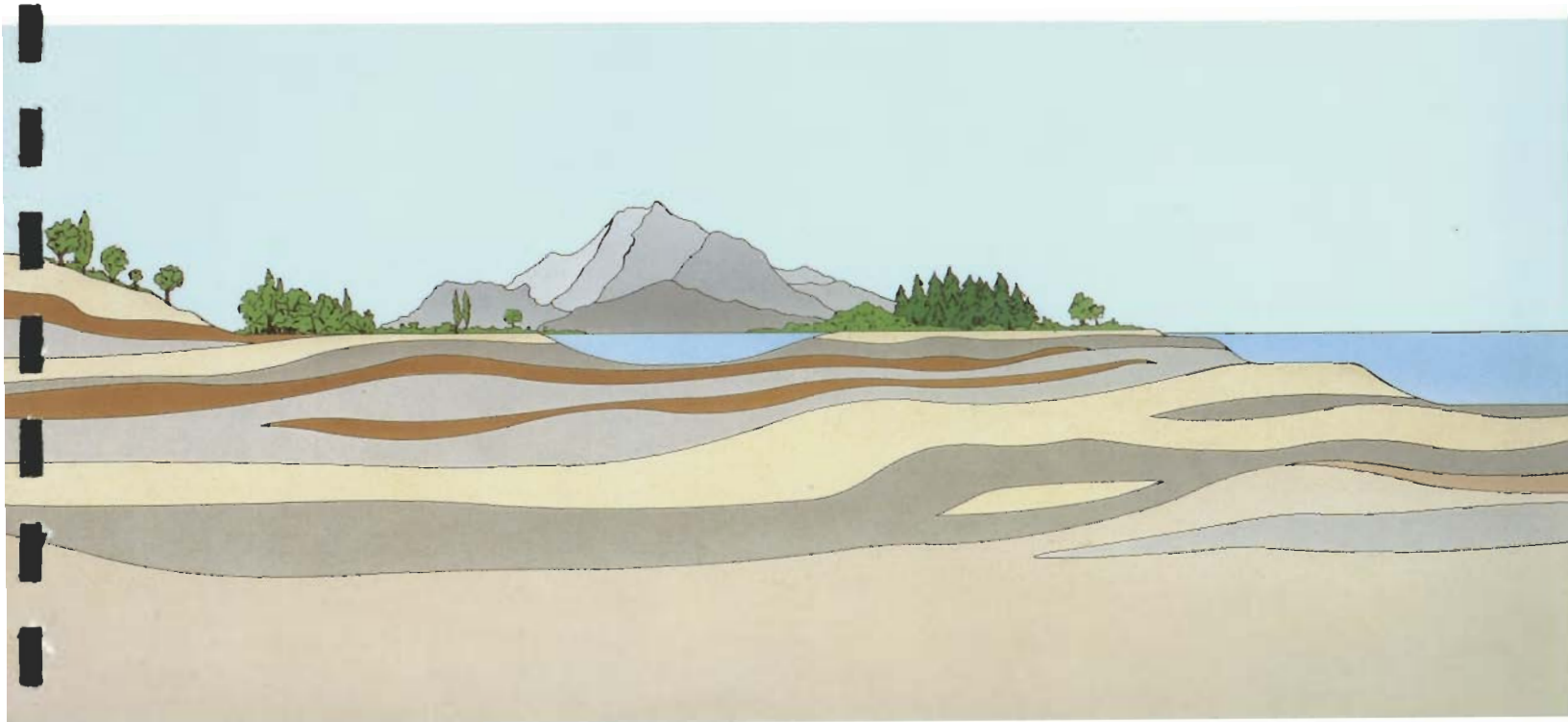
FUGRO WEST, INC.

# NORTH MONTEREY COUNTY HYDROGEOLOGIC STUDY

## Volume I
## Water Resources

Prepared for:
MONTEREY COUNTY WATER RESOURCES AGENCY

October 1995



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October 19, 1995
Project No. 94-71-0160

Monterey County Water Resources Agency
855 East Laurel Drive
Salinas, California 93901

Attention: Mr. Matt Zidar

Subject: North Monterey County Hydrogeologic Study (Volume I), dated October 1995

Dear Mr. Zidar:

Fugro is pleased to submit the North Monterey County Hydrogeologic Study (Volume I). This has been a rewarding experience for us, as well as an enjoyable professional challenge. As you know, we are continuing our work on Volume II, the Critical Issues Report. We look forward to working with you toward the project's completion, and wish you continued success.

Sincerely,

FUGRO WEST, INC.

Martin B. Feeney, C.E.G.
Monterey Branch Manager

Chris W. Clark, JD, AICP

MBF:CWC:av

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## ACRONYMS

| | | |
|---|---|---|
| AF/Y | - | Acre-Feet Per Year |
| A-N | - | Anderson-Nichols, Inc. |
| CALTRANS | - | California Department of Transportation |
| CPMD | - | California Public Works Department |
| DWR | - | California Department of Water Resources |
| GIS | - | Geographical Information System |
| IGSM | - | Integrated Ground and Surface Water Model |
| JMM | - | James M. Montgomery Engineers, Inc. |
| MCWRA | - | Monterey County Water Resources Agency |
| MDEH | - | Monterey County Division of Environmental Health |
| MSL | - | Mean Sea Level |
| MW | - | Montgomery Watson |
| PVWMA | - | Pajaro Valley Water Management Agency |
| TAC | - | Technical Advisory Committee |
| USGS | - | United States Geological Survey |

# INTRODUCTION

## GENERAL STATEMENT

The purpose of this investigation is to develop a better understanding of the hydrogeologic setting in the North Monterey County (North County) area and to quantify the various components of water supply and demand. The investigation also focuses on the institutional and planning issues associated with the resource limitations and suggests possible responses to these limitations. The investigation is intended to provide the Monterey County Water Resources Agency (MCWRA), as well as the Monterey County Departments of Planning, Building & Inspection and Division of Environmental Health, with data essential to developing a ground water management plan and to support modifications to existing land use policies that may be required to assure a long-term water supply for the area.

The results of the investigation are presented in two volumes. This volume, Volume I, focuses on hydrogeologic issues, while Volume II addresses the planning/land use issues associated with the conclusions of the hydrogeologic evaluation. The hydrogeologic investigation includes the results of the hydrogeologic analysis, water budget analysis, and water quality analysis. The land use planning document includes an analysis of the land use, water demand, jurisdiction, and allocation issues, as well as a suggested scope of work for the Phase II portion of the study. Both reports are supported with maps developed by Fugro using the Agency's geographic information system (GIS) database.

## BACKGROUND

Water supply in the North County area has been the focus of several previous studies; the most significant were performed by the State of California Public Works Department ([CPWD], 1952), State of California Department of Water Resources ([DWR], 1977), the United States Geological Survey ([USGS], draft 1980, final 1983), and the private consulting firm of Anderson-Nichols ([A-N], 1981). In addition, portions of the study area have been studied as part of larger regional studies of the Salinas ground water basin to the south and the Pajaro ground water basin to the north. Each of these larger basins has been the subject of ground water flow modeling efforts performed by James M. Montgomery ([JMM] now Montgomery Watson [MW]), each resulting in calibrated flow models of the respective basins. In addition to these larger studies, much of the study area has been investigated on a smaller scale through individual hydrology studies. These were previously required by the Monterey County subdivision ordinance.

The studies performed by CPWD and DWR both suggested that an area-wide overdraft was occurring in the North County area. The DWR report documented seawater intrusion and falling water levels in the area. The DWR report also included a review of possible supplemental

water supply alternatives for the area, but concluded that no reasonable alternative existed. The USGS study verified the conclusions of the previous reports while providing an improved understanding of the hydrogeology of the area and further quantifying water demand, ground water storage, and recharge. The USGS report identified an area north and east of Prunedale to be particularly "water-short." The USGS survey also cautioned that additional residential and agricultural development would aggravate water shortages in the North County area.

Based on the findings of the USGS and DWR studies, along with complaints of water shortages by area residents, a temporary development moratorium was placed on this area in October 1980. In December 1980, A-N was retained to further investigate the moratorium area, and to develop possible water supply solutions and guidelines for further development. The A-N study confirmed the conclusions of the previous studies. Based on their work, A-N made recommendations including: 1) growth restrictions including no further subdivisions and no new discretionary permits for intensified water use, 2) adoption of a minimum lot size of 2 acres, 3) limitation of the number of households served by a single well, and 4) prohibition of the expansion of agricultural acreage. A-N subsequently completed a follow-up study (June 1981) that modified some of the planning units of the moratorium area and further refined recharge rates. Some of A-N's recommendations were adopted, and development in the area was conditioned on the performance of site-specific hydrology studies that focused on water supply availability and nitrate loading.

As a result of the USGS and A-N studies, the Monterey County of Board of Supervisors adopted a more permanent "B-8" moratorium in the Prunedale area in 1983. This land use designation prohibits further subdivision, allowing development only on existing lots of record. This land use designation is still in place in this portion of the study area.

Since the previous studies and the adoption of the modified land use and area plan within the Prunedale area, development in other surrounding areas has continued. Agricultural acreage has expanded, and some agricultural operations have shifted to more water-intensive crops. In particular, nursery, greenhouse, Christmas tree, and strawberry operations have expanded. Recent residential development in the area has further increased residential water demand in the area. Much of this residential development has been in the form of ranchettes and large custom homes that commonly include facilities for horses and livestock, which have further increased water demand.

As could be expected, water supply problems have continued to develop in the area. Many water wells in the area have required deepening to maintain production, and numerous wells have been replaced due to elevated nitrate ion concentrations. Near the coast, additional wells have been contaminated by seawater, requiring replacement, either with deeper wells or wells located further inland.

## PURPOSE

In response to continuing concerns regarding water supply and quality and the desire to evaluate the area on a regional basis, Monterey County Ordinance 3496 was adopted in 1990. This ordinance eliminated the requirement for an individual hydrology report for new development projects in the area, requiring instead the payment of an impact fee that would fund a regional study of the water resources and water quality issues. The impact fees would be used to fund a two part study; the initial phase being a hydrogeologic investigation and issues identification, the second phase being the development of a ground water management plan.

This investigation represents phase one of the scheduled study. The investigation evaluates the North County area water supply and quality conditions, area hydrogeology, water demand, and current land use issues. Particularly, this investigation focuses on the following:

- Evaluation of the appropriateness of the current planning subareas based on the understanding of the area hydrogeology, and designation of new subareas, where appropriate.

- Definition of overlapping jurisdictional boundaries between the Salinas and Pajaro basins, and the relationship of the study area to each of these.

- Assessment of current conditions. Quantification of the total and usable volume of ground water in storage, recharge, current water levels, and current water quality problems.

- Quantification of current and future water demand under several build-out scenarios.

- Comparison of the current land use plan and regulations for the area balanced with existing water resources, and presentation of suggestions to achieve a water balance in the area.

## SCOPE AND AUTHORIZATION

The scope of work for the project was developed in response to a Request for Proposal prepared by the Agency in January 1994. The scope of work was accepted and, after contract documents were processed, notice to proceed was issued by the Agency in May 1994. As performed, the work included:

- Collection and review of relevant geologic and hydrogeologic previous reports and studies on the study area. The reviewed documents, whether or not specifically cited, are listed in the references.

- Acquisition and implementation of the Pajaro Valley Water Management Agency (PVWMA) and Agency water level and water quality databases. Preparation of water level and chemical concentration hydrographs for all study wells in the area with sufficient data.

- Collection of additional water level data from key wells throughout the study area and the preparation of water level surface maps.

- Construction of two monitoring wells clusters, each consisting of a shallow and deep completion.

- Review of existing well log data and other geophysical and geologic data, and the preparation of geologic cross-sections depicting the hydrostratigraphic relationships in the study area.

- Analysis of the components of water supply through the linkage of the two existing ground water models of the Salinas and Pajaro basins.

- Field checking and updating of land-use data within the study area.

- Estimation of water demand under current and various future land use scenarios.

Work was performed in a manner to utilize and be compatible with the Agency's existing databases and GIS. Data generated as part of the investigation are presented in a format that is usable to the Agency and will serve to populate the various developing databases of hydro-geologic, hydrologic, and geographic information. Fugro prepared maps and digital data "layers" to support the study including land use, parcels, soils, water systems, zoning, surficial geology, and others. A parcel-level model was developed by Fugro utilizing ARC/INFO GIS software allowing calculations of water demand and nitrogen loading for the present and future levels of development. Numerous maps were developed to present and support study findings. The various components of the database, the GIS model, layer documentation, and ARC/INFO Macro Language of the maps have been transmitted under separate cover.

## FINDINGS AND ANALYSIS

### AREA OF INVESTIGATION

The study area is formally defined in Monterey County Ordinance No. 3496 as the area investigated by the USGS in the 1983 report entitled *Ground Water in North Monterey County, California, 1980.* The roughly 54,000-acre area is generally bounded by the Pajaro River on the north, the San Benito-Monterey County line on the east, Blackie Road on the south, and the

Southern Pacific Railroad line, Elkhorn Slough (Slough), and Monterey Bay on the west. The City of Watsonville lies directly north of the study area, across the Pajaro River, while the community of Castroville lies just outside the area's southwest boundary. The area is predominantly hilly, comprised of stable deposits of mature coastal dunes that are locally dissected by minor drainages. The central westerly portion of the study area is dominated by the Slough, a brackish to salt water estuary. The eastern portion, toward the San Benito County line, is a prominent ridge of uplifted granite. The study area is shown on Figure 1 - Study Area Boundaries.

The study area overlies a portion of both the Salinas and Pajaro ground water basins and includes the area between the adopted boundaries of these two basins. Although the study area is entirely within Monterey County, ground water management activities and authority in the study area are divided between the PVWMA and the Agency, which manage the water resources of the Pajaro and Salinas Valley ground water basins, respectively. The boundary between these two agencies is also shown on Figure 1.

## REGIONAL GEOLOGY

The regional geology of Monterey Bay has been addressed in several previous investigations (Allen, 1946; Dupre, 1975; Tinsley, 1975; and Schwartz, 1986). These studies have resulted in relative agreement regarding the surficial geology of the area. Clark and Reitman (1973), Dibblee (unpublished), and Dupre and Tinsley (1980) have prepared the most complete geologic maps of the area. These maps were utilized to create the GIS layer presented as part of Figure 2 - North County Geology. The study area is a geologically complex area resulting from the Pleistocene interactions of fluvial-estuarian depositional environments of the ancestral Salinas, Pajaro, and San Benito Rivers, with regional eolian and marine depositional environments. The recent sediments in the area are underlain by Tertiary age consolidated rocks at varying depths. The entire sequence is underlain by a granitic basement, which is locally exposed in the study area. The generalized geologic setting and stratigraphy are presented on Figure 2.

The basement rocks in the study area consist of Mesozoic "Salinian Block" granite that are exposed along a ridge on the western side of the Vergeles fault, approximately 5 miles northeast of Prunedale. Directly to the northeast, across the Vergeles fault, granitic basement is juxtaposed against deformed Tertiary volcanic and sedimentary rocks of the Pinecate and San Juan Bautista Formations (Clark and Reitman, 1973). Southwest of the granitic ridge exposure, the basement is inferred to dip at approximately 7 degrees toward the Monterey Bay based on contoured well log data. Localized erosional knolls and valleys occur across the buried granitic surface (M. Johnson, 1983).




# Figure 1

## STUDY AREA BOUNDARIES

- Study Area
- Study Area Boundary
- County Line
- PVWMA Boundaries
- Township and Range Grid

MILES

0 1.25 2.5

Source: MCWRA

*North Monterey County Hydrogeologic Study*

# Figure 2

## NORTH COUNTY GEOLOGY

- Qal - Alluvium
- Qas - Aromas Sand
- Qm - Marshland clay mud
- Qoa - Older Alluvium
- Qof - Older Floodplain
- Qs - Sand Dunes
- Tsp - Pinecate Formation
- Tva - Volcanic rock
- gr - Granitic rock
- Pzms - Meta Sediments
- Structure Contours
- Faults
- Cross Sections
- Wells Used in Cross Sections
- Subarea Boundaries
- County Line
- Township and Range Grid

MILES

0 1.25 2.5

Sources: MCWRA, Dibblee, T.W.

*North Monterey County Hydrogeologic Study*

The Tertiary San Juan Bautista and Pinecate Formations flank the southwestern edge of the granitic basement at depth (approximately -3,000 feet elevation) and thicken toward the coast. A relatively thick sequence of these units was deposited in the ancient Pajaro Gorge, a relic canyon carved into the granitic basement surface to a depth of approximately 7,500 feet below the modern Slough (Schwartz, 1986). The Pinecate Formation is unconformably overlain by approximately 1,000 feet of Miocene age Monterey Shale. With the exception of the fractured granitic basement, which locally yields limited amounts of ground water from near the surface in the granitic ridge area, most of these pre-Pliocene formations within the study area are not a significant ground water resource.

Shallower, post-Miocene unconsolidated formations represent the primary ground water resources in the area. The oldest of these formations comprise the poorly consolidated marine sandstone, siltstone, and claystone beds of the Pliocene Purisima Formation. The Purisima Formation overlies the Monterey Shale, both of which pinch-out against the granitic ridge and become thicker and deeper towards the Monterey Bay. Over most of the study area, the top of the Purisima Formation exists at elevations of approximately -600 feet inland to greater than -800 feet near the coast (Johnson, 1983). The Purisima Formation is not exposed in the study area; therefore, recharge of that formation is controlled by infiltration through the overlying Aromas Sand.

The Pleistocene age Aromas Sand unconformably overlies the Purisima Formation and is exposed over most of the study area. Similar to the Purisima Formation, the Aromas thickens coastward. The depositional history of the Aromas Sand is complex and is discussed in detail in the following section. In the northern and southern portions of the study area adjacent to the Pajaro and Salinas Basins, the Aromas Sand consists of predominantly fluvial and eolian deposits; whereas, in the granitic ridge area, these fluvial units pinch-out and give way to solely eolian deposits, which lie directly upon granitic basement.

The Aromas Sand is locally overlain by more recent alluvial deposits. Recent alluvium is present in the more established drainages, and terrace deposits cap the Springfield Terrace and line the Carneros, Pajaro, and Salinas drainages.

**Depositional History**

The depositional history of the Monterey Bay region has significant bearing on the delineation and understanding of the various aquifer units in the study area, the interaction of these aquifer units, and the relationships of these units to the adjacent ground water systems of the Pajaro and Salinas Valleys. Studies prepared by Dupre and Tinsley, both individually and jointly (Dupre [1975, 1990], Tinsley [1975], and Dupre and Tinsley [1980]) are most relevant to the understanding the depositional history of the study area. The reader is especially directed to the respective dissertations of these investigators, the former's dissertation being focused on the

Pajaro basin and the latter on the Salinas basin. Taken together, these documents provide a thorough analysis of the recent geologic history of the study area. Understanding the depositional environment is fundamental in understanding the hydrogeology of the area and the relationship of the study area to the adjacent areas.

In the early Pliocene, the primary hydraulic connection between the San Joaquin Valley and the Pacific Ocean is believed to have existed within the Santa Cruz Basin (Dupre, 1990). The Santa Cruz Basin extended along the northeast side of the Gabilan Range (the northern extent of which comprises the granitic ridge in the study area) through the Santa Cruz Mountains. Throughout the late Pliocene, this basin received generally coarse-grained sediments, which became the upper Purisima Formation. South of the ancestral Santa Cruz Basin, to the west of the granitic ridge, the upper Purisima Formation consisted of relatively less permeable marine silt, clay, and fine sand units, suggesting deposition outside of the main drainage. In the southern portion of the study area, the upper Purisima Formation is believed to intertongue with the deposits that comprise the 400-foot aquifer of the Salinas Valley. The 400-foot aquifer has been interpreted to consist of continental deposits associated with the lower Paso Robles Formation (Johnson, 1983; Thorup, 1976; Yates; 1988).

Subsequent uplift of the Santa Cruz Mountains in the late Pliocene-early Pleistocene segmented the Santa Cruz Basin to form the Watsonville (Pajaro) Basin that currently flanks the northern margin of the study areas (Dupre, 1990). The Purisima Formation in the Watsonville area was also uplifted at that time and subjected to coastal erosion.

The Aromas Sand unconformably overlies the Purisima Formation. The Aromas Sand includes an interfingering sequence of genetically related suites of fluvial, marine, and eolian deposits. Dupre (1975) observed evidence for at least 11 Quaternary glacio-eustatic cycles within the Aromas. As such, the Quaternary depositional history and, hence, aquifer delineation in the study area, is similarly complex.

The complexity of the Aromas Formation can be simplified within the context of Dupre's (1975) depositional model for stable or subsiding coastal platforms. According to Dupre's model, stable or subsiding regions would receive fining-upward sequences of fluvial and estuarine sediments during periods of rising sea level (transgression). During periods of declining sea level, river valleys in these regions are subject to fluvial dissection, while eolian and littoral marine sediments are deposited in other areas.

## Geologic Cross-Sections

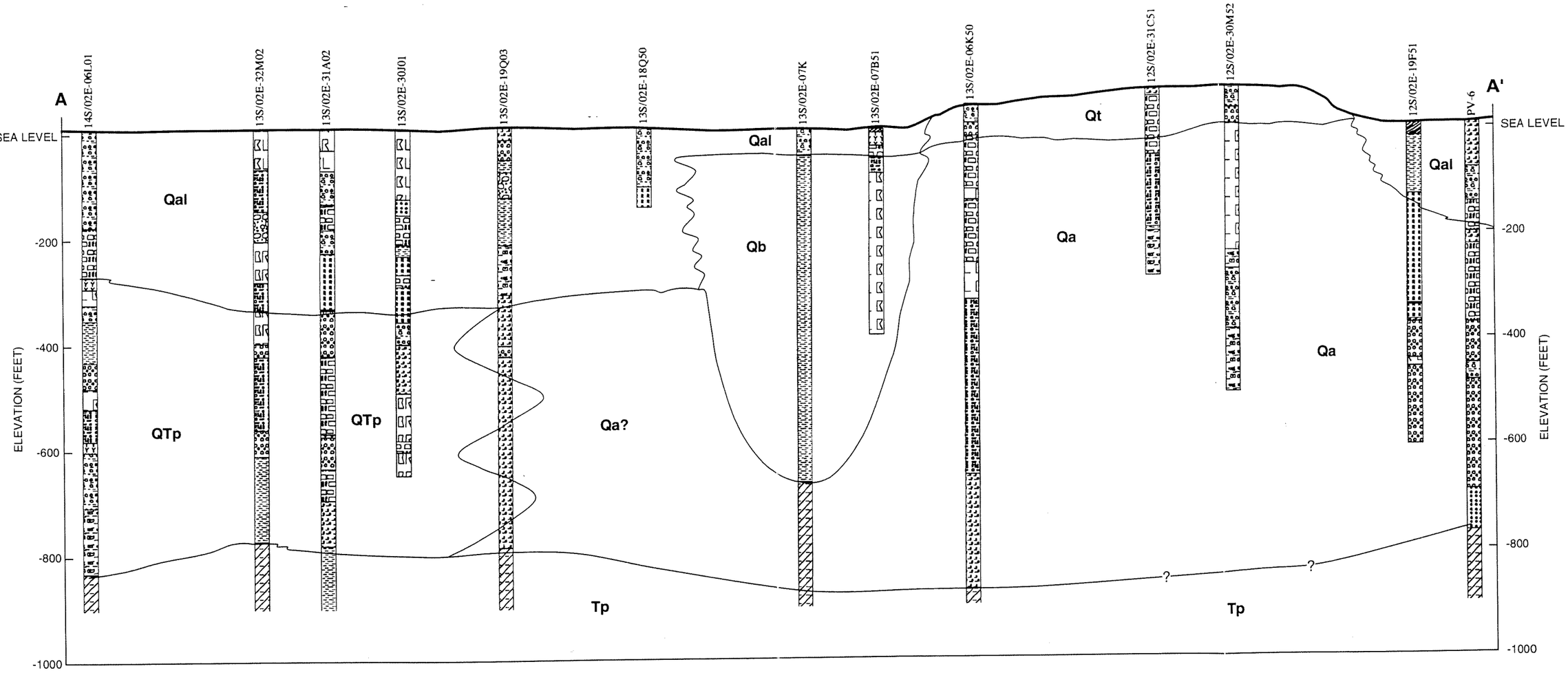
Drilling logs from the study area were compiled for the purposes of constructing Geologic Cross-Sections A-A' through D-D' presented on Figures 3 through 6, respectively. Drilling logs were also utilized to update the structural contours on the base of the Quaternary deposits prepared by Johnson (1983), which are presented on Figure 2. The cross-section locations are also shown on Figure 2.

Dupre's (1975) model for coastal sedimentation on stable and subsiding platforms was applied in the interpretation of the cross-sections. In applying this model to the study area, one would anticipate that the Pajaro and Salinas Valleys, both regions of subsidence, would be subject to fluvial dissection during regressional events, and fining-upward fluvial-estuarine sedimentation during transgressional events. Areas away from fluvial influence would receive predominantly eolian and marine deposits during regressional events, and relatively quiet-water marine estuarine deposits during transgressional events.

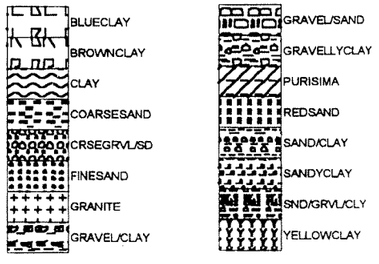
Geologic relationships in the study area confirm the appropriateness of this model. The Aromas Sand in the Pajaro Basin (shown in Geologic Cross-Sections A-A' and B-B') is comprised of fluvial sands and gravel that were deposited in the ancient Pajaro/San Benito River drainages as a result of fluvial aggradation. Toward the central portion of the study area, these fluvial deposits interfinger with eolian deposits and marine silt and clay embayments that flank the west side of the stable granitic ridge. To the south, these embayments appear to interfinger with the fluvial deposits comprising the upper Paso Robles Formation in the Pressure Area of the Salinas Valley (Johnson, 1983). To the east, these marine embayments appear to pinch out against the granitic ridge (see Geologic Cross-Sections C-C' and D-D') and give way to predominantly eolian deposition. Here, ancient dune deposits in the Aromas directly overlie a 100- to 200-foot-thick section of weathered granite composed of granitic gravel, clay, and sand (Johnson, 1983). A schematic of the various geomorphic areas of the study area is presented on Figure 7 - Geomorphic Setting.

Dupre's (1975) depositional model implies that the youngest alluvial deposits occur in the lower valleys, whereas older deposits are preserved in adjacent fluvial terraces. Evidence of this is exhibited adjacent to the Salinas, Pajaro, and Elkhorn Valleys where older Aromas Formation dune and fluvial terrace deposits have been cut by the ancestral Salinas, Pajaro, and San Benito River systems (Hall and Lettis, 1991). The Springfield Terrace has been cut by all three of these drainages. Similarly, terraces have been formed by the ancestral Salinas River along the north-eastern margin of the Salinas Valley, and by the Pajaro River along the south side of the Pajaro Basin (Dupre and Tinsley, 1980).

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Project No. 94-71-0160




**LITHOLOGY**




**LEGEND**

| | |
|---|---|
| Qal | Alluvium |
| Qb | Basin Fill |
| Qt | Terrace Deposits |
| Qa | Aromas Formation |
| QTp | Paso Robles Formation |
| Tp | Purisma Formation |
| ?—? | Geologic Contact, Queried where in Doubt |

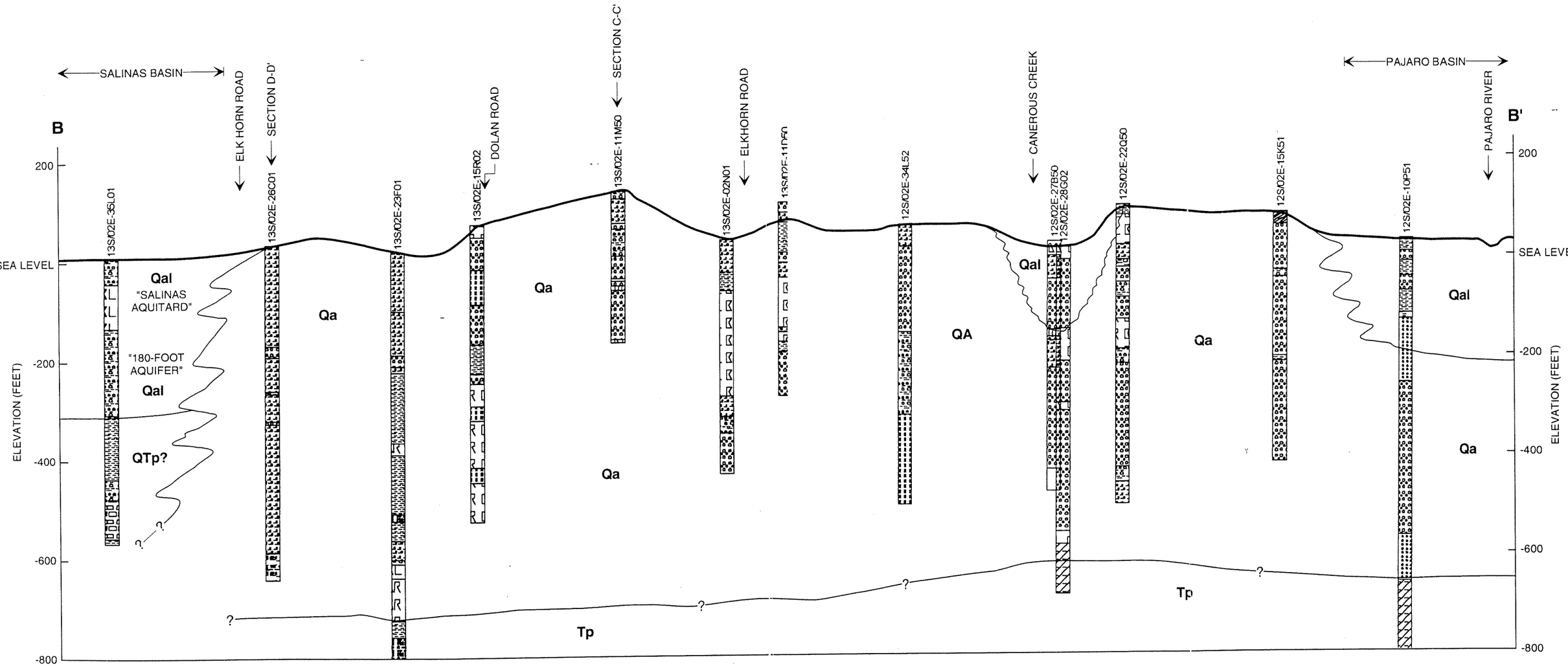
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Vertical Scale: 1" = 200'
Vertical Exaggeration: 20x

**CROSS SECTION A-A'**

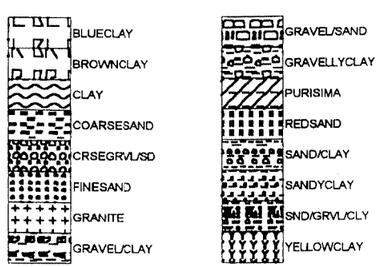
FIGURE 3

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October 1995
Project No. 94-71-0160




**LITHOLOGY**




**LEGEND**

| | |
|---|---|
| Qal | Alluvium |
| Qb | Basin Fill |
| Qt | Terrace Deposits |
| Qa | Aromas Formation |
| QTp | Paso Robles Formation |
| Tp | Purisma Formation |
| ?—? | Geologic Contact, Queried where in Doubt |

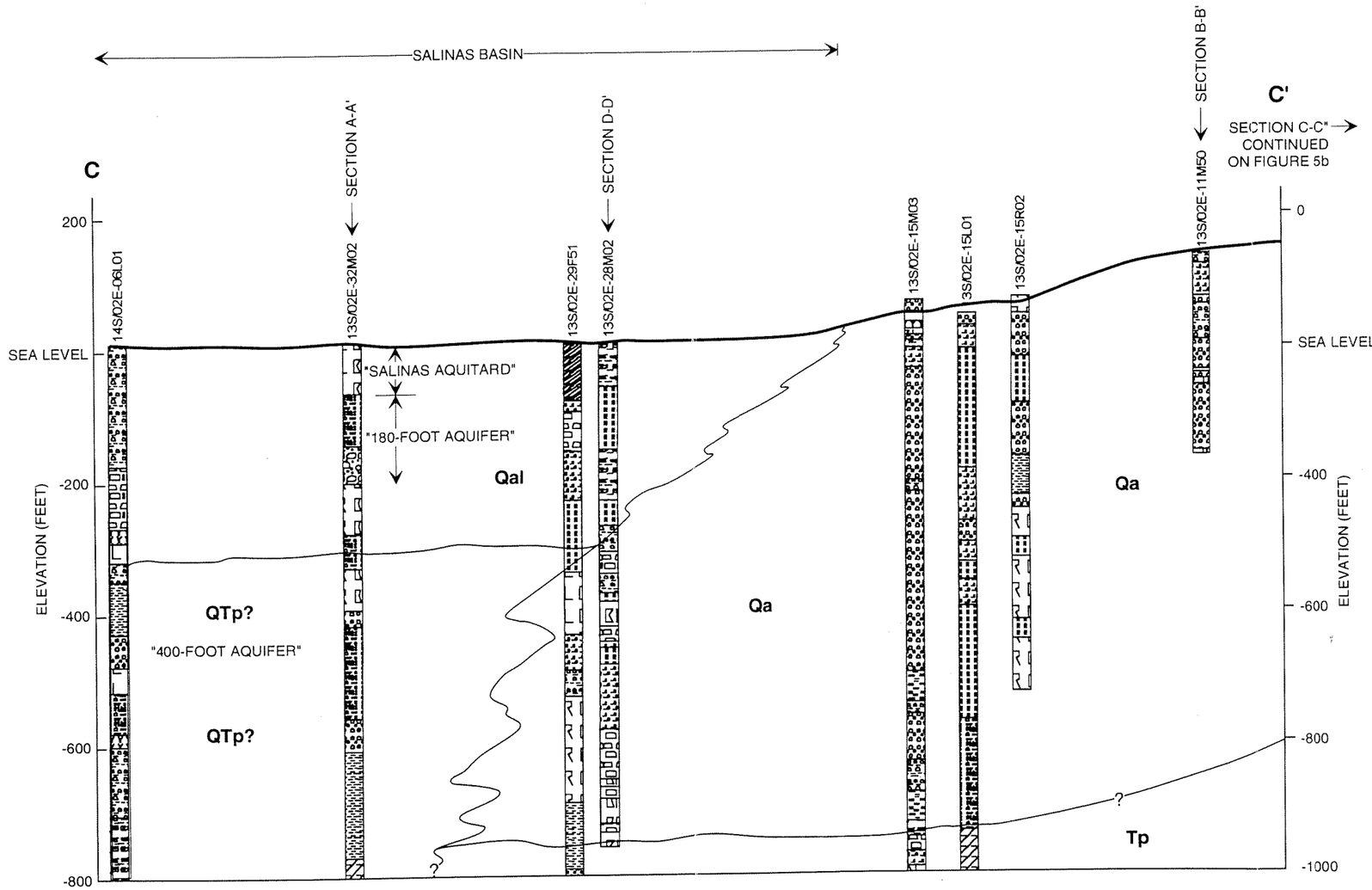
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Vertical Scale: 1" = 200'
Vertical Exaggeration: 20x

**CROSS SECTION B-B'**

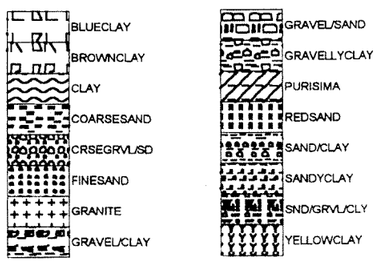
FIGURE 4

9471\0160os-b-dsd(1:3)

October 1995
Project No. 94-71-0160




**LITHOLOGY**




**LEGEND**

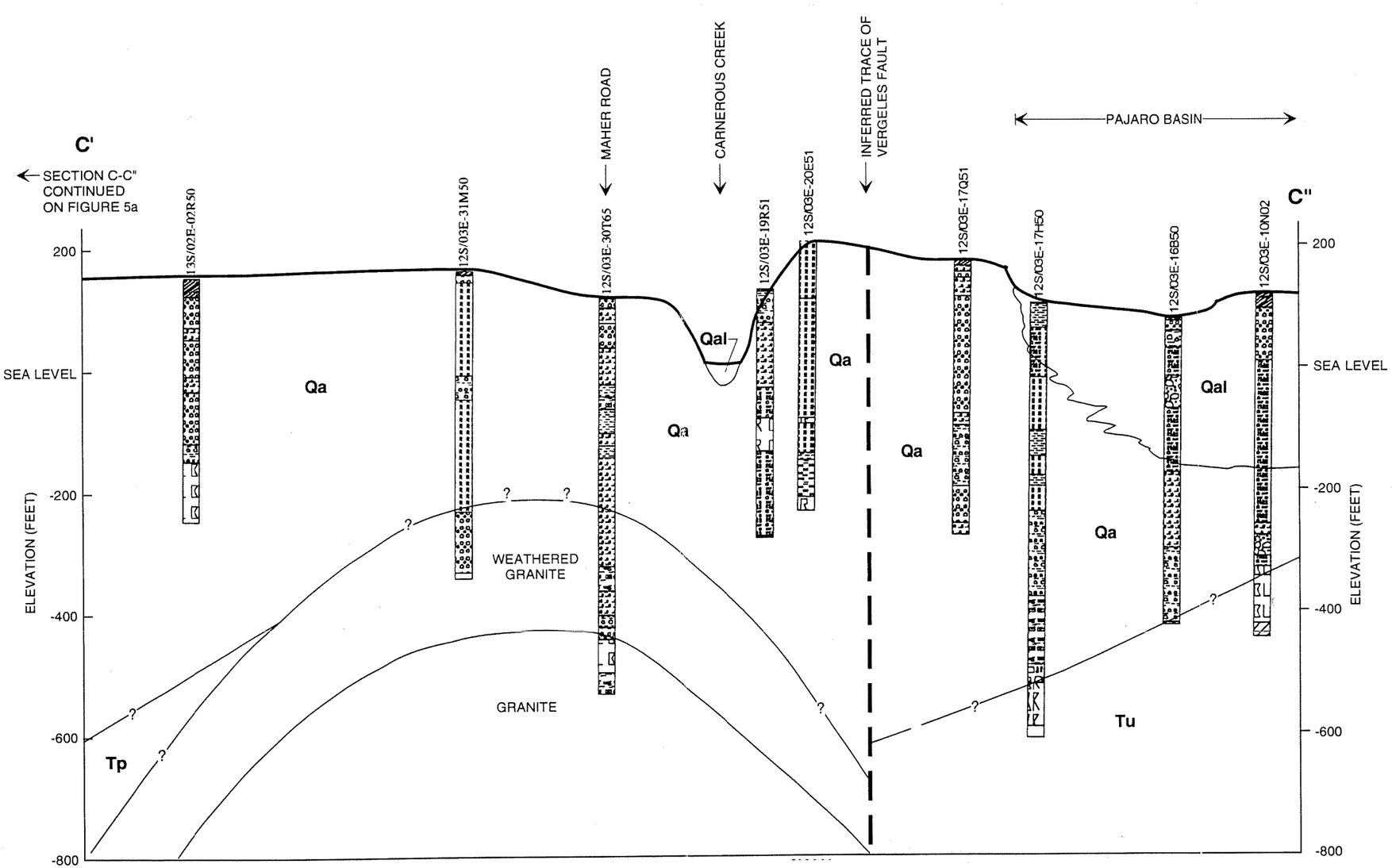
| | |
|---|---|
| Qal | Alluvium |
| Qb | Basin Fill |
| Qt | Terrace Deposits |
| Qa | Aromas Formation |
| QTp | Paso Robles Formation |
| Tp | Purisma Formation |
| ?—? | Geologic Contact, Queried where in Doubt |

Horizontal Scale: 1" = 4000'
Vertical Scale: 1" = 200'
Vertical Exaggeration: 20x

**CROSS SECTION C-C"**

FIGURE 5a

94711016\xsC1.dgn(1.3)




**LITHOLOGY**

BLUECLAY
BROWNCLAY
CLAY
COARSESAND
CRSEGRVL/SD
FINESAND
GRANITE
GRAVEL/CLAY
GRAVEL/SAND
GRAVELLYCLAY
PURISIMA
REDSAND
SAND/CLAY
SANDYCLAY
SND/GRVL/CLY
YELLOWCLAY

**LEGEND**

| | |
|---|---|
| Qal | Alluvium |
| Qb | Basin Fill |
| Qt | Terrace Deposits |
| Qa | Aromas Formation |
| QTp | Paso Robles Formation |
| Tp | Purisma Formation |
| Tu | Sedimentary Rocks - Undifferentiated |

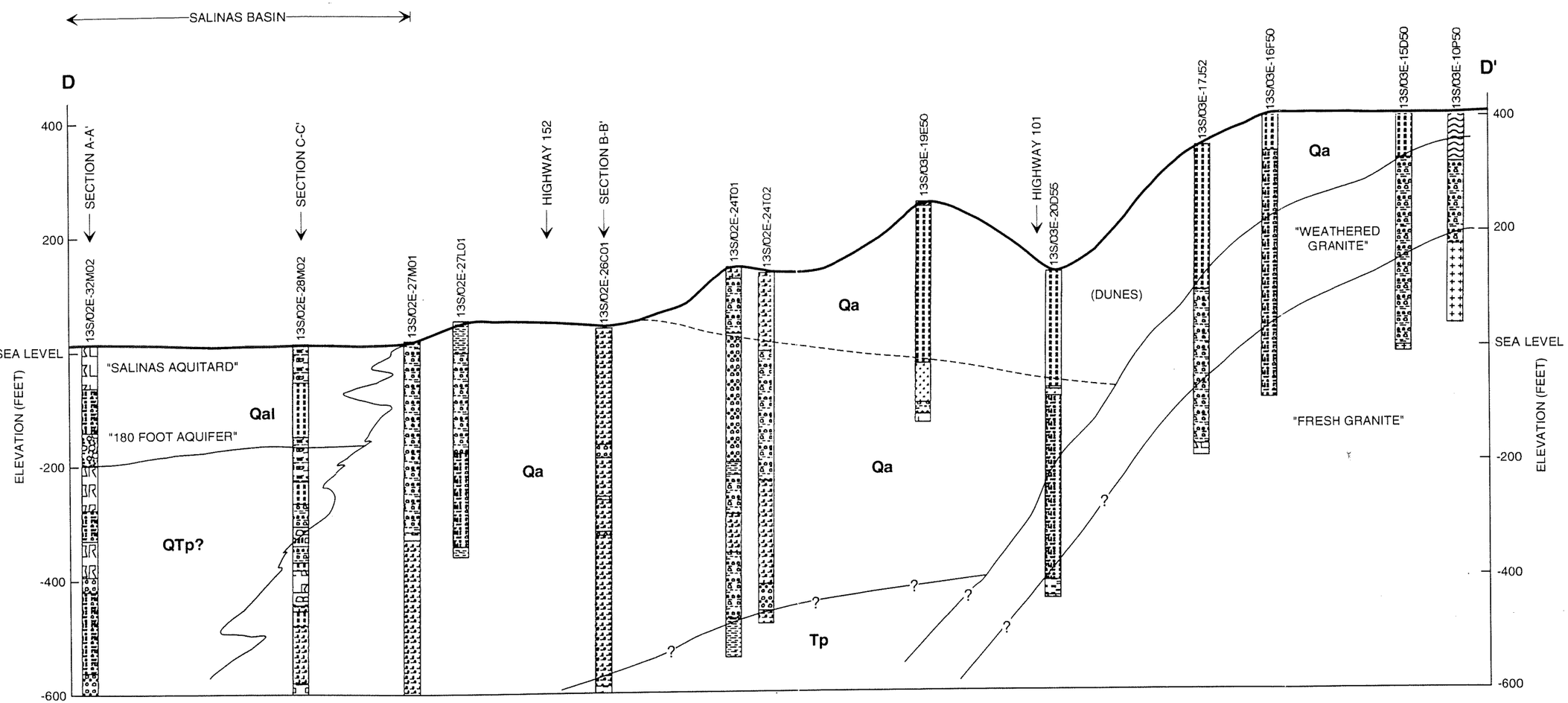
—?— Geologic Contact, Queried where in Doubt

Horizontal Scale: 1" = 4000'
Vertical Scale: 1" = 200'
Vertical Exaggeration: 20x

**CROSS SECTION C-C"**
(Continued)

FIGURE 5b

October 1995
Project No. 94-71-0160




**LITHOLOGY**

BLUECLAY
BROWNCLAY
CLAY
COARSESAND
CRSEGRVL/SD
FINESAND
GRANITE
GRAVEL/CLAY
GRAVEL/SAND
GRAVELLYCLAY
PURISIMA
REDSAND
SAND/CLAY
SANDYCLAY
SND/GRVL/CLY
YELLOWCLAY

**LEGEND**

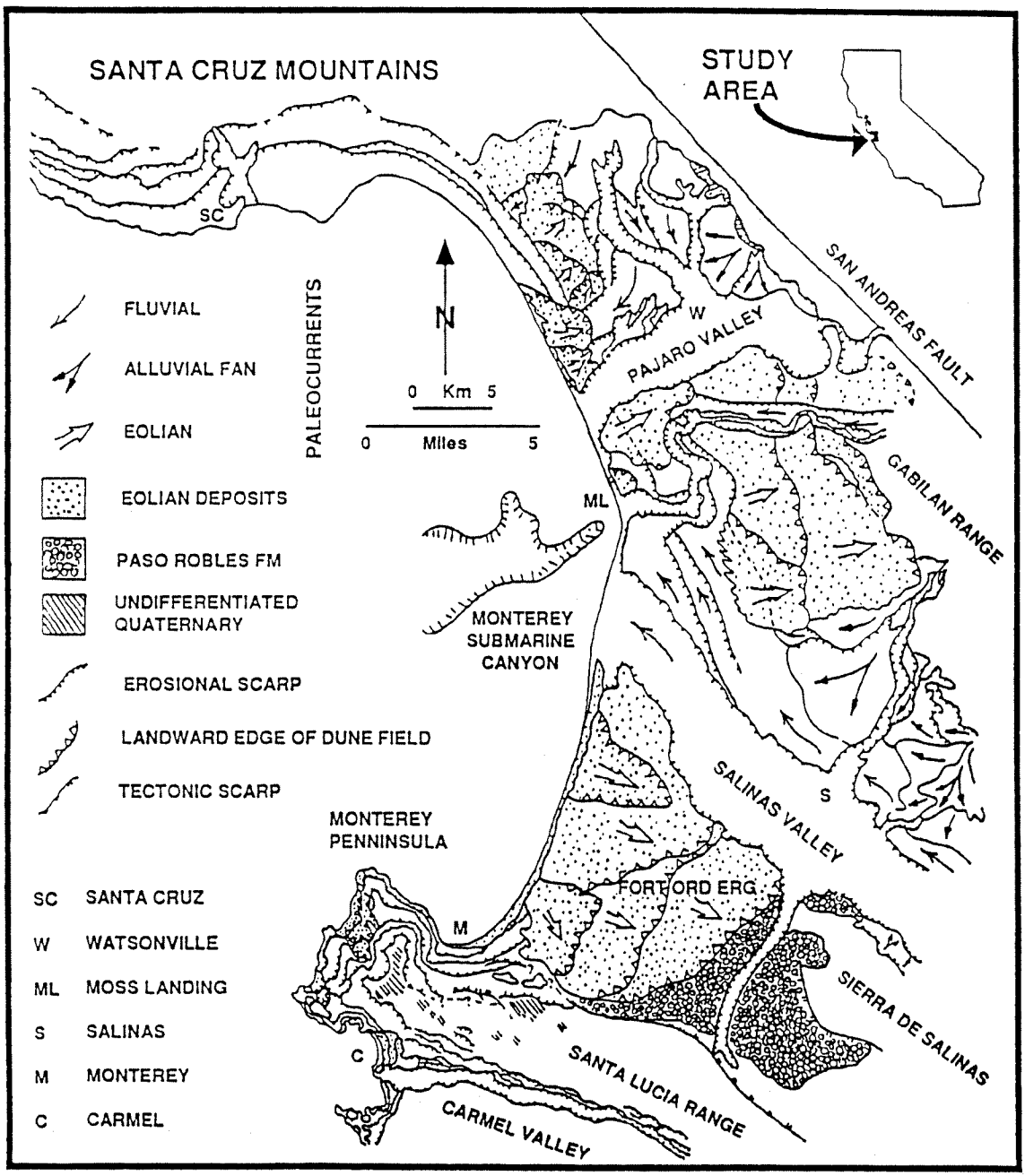
| | |
|---|---|
| Qal | Alluvium |
| Qb | Basin Fill |
| Qt | Terrace Deposits |
| Qa | Aromas Formation |
| QTp | Paso Robles Formation |
| Tp | Purisma Formation |
| ?—? | Geologic Contact, Queried where in Doubt |

Horizontal Scale: 1" = 4000'
Vertical Scale: 1" = 200'
Vertical Exxageration: 20x

**CROSS SECTION D-D'**

FIGURE 6

9471101160xs-d-dsk(1.3)




**GEOMORPHIC SETTING**
North Monterey County
Hydrogeologic Study

FIGURE 7

The Elkhorn Valley is the older of these recently dissected drainage features. The Elkhorn Valley occupies the east-west lineament between the San Juan Road-U.S. Highway 101 interchange and the Slough. Dissection of the valley appears to have been relatively rapid as evidenced by numerous hanging drainages along San Juan, Carpenteria, San Miguel Canyon, Vida, and Elkhorn Roads (Jenkins, 1973). Movement along the San Andreas system was likely responsible for diverting the San Benito River southward into the Elkhorn Valley, resulting in dissection during the late Pleistocene (Dupre, 1990).

Subsequent inundation of the Elkhorn Valley resulted in the accumulation of approximately 600 feet of alluvial clay within the canyon near the coast (Geologic Cross-Section A-A'). This clay forms a "mud plug", which is believed to restrict flow between the ground water systems of the Pajaro and Salinas Valleys (DWR, 1977). The thick mud plug thins to less than 150 feet 2 miles inland from the coast (Johnson, 1983). Here, the clay interfingers with fluvial and alluvial sand and gravel which comprise the remainder of the Elkhorn Valley fill.

The alluvial clay and fluvial infill in the Elkhorn Valley are believed to have been deposited during an overall transgressive cycle, after which the drainage was abandoned, accounting for the thick accumulation of alluvial clay fill in the coastal inlet void of major fluvial influence. Similarly, recent transgression was likely responsible for aggradation of fluvial-estuarine and, subsequently, alluvial sediments, in the active Salinas and Pajaro Basins. That most recent transgressional event probably aggraded the fluvial sediments that comprise the 180-foot aquifer in the Salinas Basin (Tinsley, 1975) and the "Upper Aquifer" in the Pajaro Valley (Dupre, 1990).

## HYDROGEOLOGY

### General Statement

Hydrogeologic evaluation included both hydrogeologic field work and data review and analysis. Hydrogeologic field work included a limited well inventory, water level measurements, water quality sampling, and geologic mapping. Data reviewed included existing well logs, geologic literature, and previous studies. Data were utilized for refining hydrostratigraphy, revising study area subareas, and assessing current conditions. After review of the data, locations for monitoring wells, additional sampling and aquifer testing were selected to fill data gaps. The monitoring well construction/exploration program is documented in Appendix A - Hydrogeologic Exploration Program.

### Generalized Hydrogeologic Setting

The study area is not a discrete ground water basin but, rather, several transitional zones between areas of differing hydrogeology. Few discrete boundaries exist in the study areas

because most of the changes between areas are transitional. Regardless, there is some basis for the division of the area into subareas based on hydrogeology and geomorphic features.

The northernmost portion of the study area is within the Pajaro Valley ground water basin and consists of the bottom land adjacent to the Pajaro River and those areas underlain by the Pajaro River alluvium. The elevated central portion of the study area is the area that is bounded to the north and south by the Pajaro and Salinas alluvial ground water basins, respectively. These filled alluvial valleys, to the north and south, were incised into an older sedimentary sequence of lesser permeable materials (Aromas Sand and Paso Robles Formation) that remain in the central portions of the study area. The boundaries between the valley alluvium and the older sediments are inferred to be relatively sharp. However, the boundaries only affect ground water flow in the sense that the boundaries likely represent a decrease in permeability from the higher values for the valley alluvium to the lesser, but still relatively high, permeability values of the Aromas Sand and Paso Robles members.

The eastern part of the study area is characterized as a transition from sedimentary to crystalline rock hydrogeology. The transition from west to east is gradual, with the thickness of overlying sediments decreasing with increasing distance eastward, giving way to a weathered zone of varying thickness on the granitic bedrock surface.

Although the underlying sedimentary section of the Springfield Terrace area is similar to the area to the east, the Springfield Terrace is distinguished from the adjacent areas by a hydraulic barrier comprised of the low permeability fill of the ancestral Elkhorn Valley that separates this area from adjacent areas. As discussed above, the depth of the fill has been documented to be as great as 600 feet in the area near Moss Landing and, in this area, represents a significant barrier to north-south ground water flow. Whether or not the filled ancestral canyon continues to have a significant affect on east-west ground water flow in the upper portions is unknown because specific data of the depth of the fill in the upper portions of the ancestral canyon are not available.

**Aquifer Delineation/Hydrostratigraphy**

The geologic setting and depositional history discussed above assist in the definition of aquifer units and the hydrostratigraphy of the study area. Aquifer delineation in the study area is best approached within the context of the geologic depositional history of the area. Based on the available geologic and well completion data the geologic materials in the study area can be aggregated into five generalized water-bearing units. These are: 1) Purisima Formation, 2) various units within the Aromas Sand, 3) weathered and fractured granite, 4) various perched aquifers and terrace deposits, and, 5) members of the Pajaro Valley alluvium sequence. As will be discussed further below, the distribution of these units assist with the refinement of hydrogeologic subareas. Each of the aquifer units is discussed below:

**Purisima Formation.** As discussed above, the Purisima Formation is a sequence of semi-consolidated sediments consisting of units of fine sand, clay and silt. The USGS, in the 1983 report, suggested that development of water supplies in the Purisima might represent a partial solution to the water supply problems in the area. The USGS cautioned, however, that not much was known about the water bearing properties of the formation in the study area and that the proximity to the ocean and remoteness to a source of recharge were limiting.

Whereas the Purisima has been proven as an aquifer in the northern portion of the Pajaro area and in the Soquel area, success with the wells completed in the Purisima in the study area to date has been limited. Approximately 15 water wells in the study area are interpreted to have encountered the Purisima Formation. Specific data of the aquifer properties of this formation are limited because few of the wells that have been drilled and completed into the Purisima are completed solely in this formation. In general, attempts to develop water supply from this formation have resulted in limited well yields (although in some cases discharge rates have been high due to available drawdown) and marginal water quality (elevated sodium adsorption ratios). The differences in the success of wells in the Purisima between the areas to the north and in the study area derives from the differences in the geology and hydrogeology. In the study area, the Purisima is finer-grained, limiting well yield. Additionally, the Purisima is not exposed in or near the study area, likely reducing the potential for completely flushing the formation of saline connate fluids, resulting in poor water quality.

To date, the Purisima Formation remains not proved as a viable aquifer. However, regardless of the whether the Purisima Formation can be effectively developed as a source of water, the lack of local recharge to the aquifer in the study area implies that the water from the Purisima would not constitute a new water source. Rather, it is either storage depletion or leakage from the overlying Aromas Formation.

**Aromas Formation.** As discussed above, the Aromas Sand is a complex aggregation of materials that have been deposited in varied and localized depositional environments. The lithology of the Aromas Sand reflects this variation locally, displaying sequences of blue marine clays, coarse sand and gravel, and well-sorted dune sand. Stratigraphic correlations between specific lithologic units over any significant distance are difficult, although some regional trends consistent with the depositional model discussed above are apparent. Near the coast, the lithology of the Aromas displays more marine and fluvial influence, typified by the blue clays and fluvial deposits. Moving eastward, the lithology is dominated by eolin deposits with occasional interbeds of fluvial deposits (Dupre, 1975).

Previous investigators have suggested that the Aromas Sand could be differentiated into an upper and lower member (DWR, 1977). This differentiation was based on review of several geophysical logs in the Moss Landing area that suggested the occurrence of a laterally continuous clay zone. However, while the data from the Moss Landing area do suggest a low permeability

section that appears correlatable between proximate wells in this area, the available data do not appear to support the designation of distinct upper and lower members in other portions of the study area. Similar conclusions were reached by both Esmaili and Associates (1978) and A-N (1981) who also suggested the subdivision to be supported only in the southwestern portion of the study area.

The Aromas Sand aquifer in the study area is, therefore, generally characterized as a sequence of interbedded sand, clay and gravel displaying localized variations. Well yields are relatively high and are a function of the local saturated thickness and lithology. Ground water in the Aromas Sands occurs generally under unconfined to semiconfined conditions, with the degree of confinement increasing with depth. Recharge to the Aromas Sand results almost entirely from the infiltration of precipitation.

**Granite Aquifer System.** In the eastern portion of the study area, the ground water system is comprised of a sequence of weathered granite that grades, with increasing depth, to fresh granite. The characteristics of this aquifer system are varied, and reflect the transition from primary to secondary porosity (primary porosity being the space between individual grains, secondary porosity being other voids in rock mass). Granite (a solid of interlocking crystals) weathers to a loosely consolidated agglomeration of sand and gravel within a clay matrix. Ground water is stored and moves through the pore spaces within the weathered granite. The degree of porosity is a function of the degree and nature of the weathering process. In contrast, unweathered granite has no (significant) porosity, and water is stored and moves solely through fractures within the rock mass. The variations in well yields and performance in the areas relying on the granite aquifer system generally result from these conditions. The yield of wells completed in the weathered granite are a function of saturated thickness and the permeability of the weathered granite and are usually significantly higher than wells completed in fresh granite. The yield of wells completed in the fresh granite are typically low and completely dependent on the number of fractures intersected by the well bore and the degree of connectivity of the fractures to each other and a source of recharge.

**Pajaro Valley Alluvium.** The Pajaro Valley floor is covered with recent alluvium deposited by the Pajaro River. The alluvium consists of a sequence of sand, clay and gravel approximately 200 to 300 feet thick overlying the Aromas Sand. The depositional sequence of sand, gravel and clay have been influenced by sea level variations and has resulted in the designation of a confining layer and upper and lower alluvial aquifers, similar to the Salinas Aquitard and the 180- and 400-foot aquifers in the Salinas Valley. The Pajaro Valley Alluvium comprises a productive aquifer supporting highly productive wells.

**Perched Aquifers.** In addition to the regional aquifer systems, the central portion of the study area contains numerous small, localized "perched" aquifer systems. These systems are the result of infiltrating water collecting (perching) above the regional water table on discontinuous

horizontal strata of low permeability within the Aromas. Water level data evidences the occurrence of these perched systems throughout the area. Perched water data available in MCWRA database are presented. Other data is anecdotal and documented in N.Johnson's 1988 report as cited. These data document water surface elevations significantly higher (occasionally 100's of feet) than the regional water table. N. Johnson (1988) suggested the possibility of regional perched zones at elevations of 180, 310 and 400 feet in elevation, based on both well water level and spring elevations. The occurrence of this regional system was considered to reflect possible regional paleosoil horizons.

Although the perched aquifers have historically been a viable source of water for domestic users, the lateral extent of these aquifers is limited. The small size of these systems results in a low volume of ground water in storage. This limited storage can lead to wells failing during drought conditions and elevated concentrations of accumulated contaminants such as nitrate ions. Water quality data from perched wells are discussed in the Water Quality Section 3.0. Because of the number, limited extent and random occurrence of these localized aquifer systems, they were not mapped for the purposes of this study. For the same reasons, the number of persons relying on these aquifers, while significant, is difficult to quantify. Populations relying on these perched aquifers are, therefore, subject to an increased risk of both water quantity and quality problems.

**Ground Water Use and Development**

All water supply in the study area is derived from ground water. No consistent long-term beneficial use of surface water is documented. Water for agricultural irrigation is supplied by on-farm wells. Residential and municipal supplies are provided either through individual domestic wells or through small water systems consisting of two or more connections. Review of the Agency database reveals records of construction of more that 2,500 wells. Experience in other counties suggested as many as 25 percent of all existing wells are not documented. The total number of wells in the study area may be as high as 3,100. The number of wells is discussed to demonstate the difficulty of creating a distribution system. Water well records available from the Agency were compiled into a database. The database includes, where available, drill method, elevation, casing size, depth, and location of perforations. The database was supplemented with other data, as available. The database is included as Appendix B - North County Water Well Database.

**Water Systems.** Most of the residential development in the study area is served by various sized water distribution systems that derive their supply from ground water. A water system consists of a distribution system that serves more than one parcel. In Monterey County, water systems are categorized by the number of connections. Systems with greater than 200 connections are considered "large water systems" and are under the jurisdiction of the California Department of Health Services. There are three large water systems in the study area: California

Water Service Company's Oak Hills and Las Lomas water systems, and the Aromas Water District. These three systems have approximately 2,246 connections, serving approximately as many parcels and 23 percent of the parcels in the study area.

Water systems with less than 200 connections are within the jurisdiction of the Monterey County Division of Environmental Health (MCDEH). Approximately 406 small water systems exist in the study area and serve approximately 3,707 parcels. This represents 38 percent of the total number of parcels in the study area. Small water systems are further subdivided by MCDEH into two subclasses: systems with 2 to 14 connections and those with more than 14 connections. The remaining parcels not served by a water system are served by private wells or are undeveloped. Data regarding all small water systems in the study area are summarized in Table 1- Water System Data, North County Area.

**Table 1. Water System Data - North County Area**

| No. of Connections | No. of Systems | No. of Parcels Served | Percent of Total Parcels |
|---|---|---|---|
| 2-14 | 308 | 1,247 | 12.7% |
| 15-200 | 98 | 2,460 | 25% |
| >200 | 3 | 2,246 | 22.9% |
| All Water Systems | 409 | 5,953 | 60.6% |

Table 1 reveals that 12.7% of all parcels are served by water systems with less than 15 connections. Table 1 also reveals that approximately 40% of parcels in the study area are served by a single well or are undeveloped. Water systems with 15 or more connections were compiled as a GIS coverage using data from the MCDEH small water system database. The GIS coverage is presented as Figure 8 - North County Water Systems/Study Wells.[1]

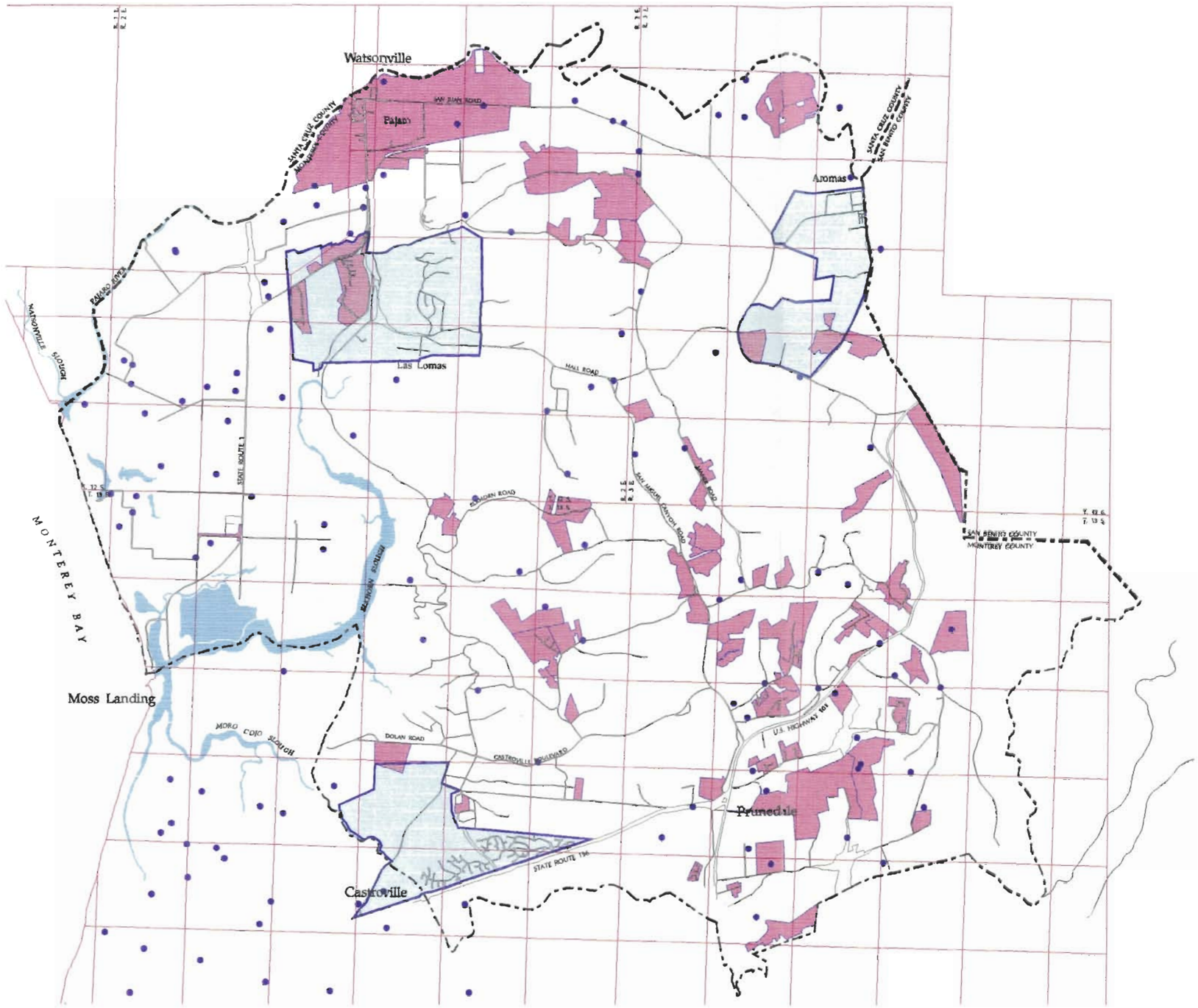
The number of wells serving a water system varies considerably with the hydrogeologic conditions. Most of the water systems have from one to five wells, depending on water system demand and well production.

## North County Subareas

The North County study area is currently defined by a combination of political, geographic, and hydrologic boundaries. The area includes many watersheds, several of which extend into the adjacent counties of San Benito and Santa Cruz. The area also has extremely varied hydrogeologic conditions. To simplify analysis of this large and diverse area, previous

[1] This GIS coverage is supported by a database created from data provided by MCDEH. Data provided only included systems with more than 14 connections. Given the large number of small systems with between 2 to 14 connections, it was not feasible to locate and show the smaller systems. However, the GIS database is structured to allow the importation of these data.

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# Figure 8

## NORTH COUNTY WATER SYSTEMS/ STUDY WELLS

- Study Wells
- Systems w/ 15-200 Connections
- Systems w/ >200 Connections
- Study Area Boundary
- County Line
- Township and Range Grid

Note: Systems with less than 15 connections are not shown

MILES

0 1.25 2.5

Source: MCWRA

*North Monterey County Hydrogeologic Study*

studies have suggested several schemes for dividing the study area into smaller hydrogeologic subareas. Previous divisions of the area have been based on hydrology, hydrogeology, political and administrative boundaries, and combinations of these factors. These subareas have subsequently been used as planning units and to estimate various components of the water balance. The previous approaches are reviewed below.

**Previous Subarea Delineations.** The study area lies between the well-defined alluvial valleys associated with the Salinas and Pajaro Rivers. Both of these ground water basins have been studied extensively. However, these studies limited their analyses to the alluvial valleys, implicitly defining an area between these two alluvial basins. Indeed, CPWD Bulletins 5 (1953) and 52 (1946) focused on the Pajaro-Santa Cruz and Salinas Valley areas, respectively. They define, by omission, the bulk of the North County study area. The omitted area was later called the Salinas Highlands area.

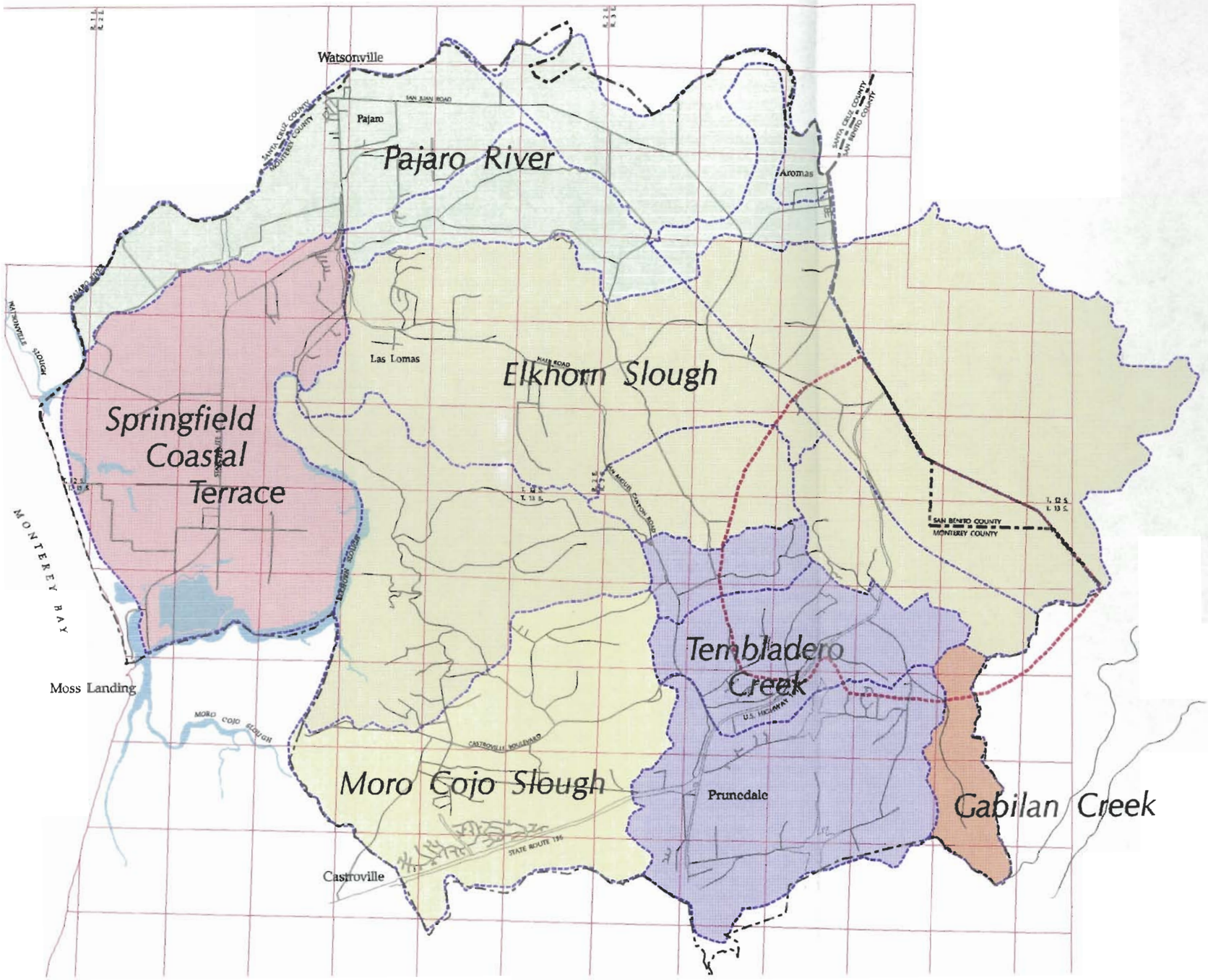
***Department of Water Resources Subareas.*** The first significant study of the area formally suggesting the division into subareas was performed by DWR. This study, prepared in 1970 and published in 1977 after several revisions, suggested four subareas: Pajaro, Aromas, Springfield, and Hill. These subareas were based primarily on hydrogeologic distinctions. The Pajaro subarea encompasses the area of Monterey County (underlain by Pajaro River alluvium) on the Pajaro Valley floor. The Aromas subarea (centered on the village of Aromas), was bounded on the west by the trace of the Vergeles fault and the east by the San Benito County line. This subdivision was based upon the reported low yielding characteristics in this area of the Aromas Formation and the assumption that the Vergeles fault represented a boundary to ground water flow. The Springfield subarea is the Springfield Terrace, bounded by the Pajaro Valley on the north, the Slough to the south and east, and the Pacific Ocean to the west. The Springfield subarea was based primarily on the geomorphic evidence and the assumed hydraulic separation from the adjacent areas by the low permeability materials in the Slough. The Hill subarea (all of the remaining area) extends from the exposed granitic bedrock of Prunedale to the marsh and Slough areas near the coast, including areas of extremely varied hydrogeology.

***USGS North Monterey County Study Subareas.*** The USGS study (Johnson, 1983) suggested a different subdivision scheme. Though not well documented, the USGS subareas were based on six surface water drainage areas: the Pajaro River, Springfield Coastal Terrace, Elkhorn Slough, Mojo Cojo Slough, Tembladero Slough, and Gabilan Creek. These six watersheds were further divided into a total of 17 subareas (16 within Monterey County and one covering the area further up the Pajaro River in San Benito County) on the basis of geology, drainage divides, and land development. The report specifically states that the subareas are primarily for purposes of water balance accounting and in most cases, ground water was believed to move freely between the subareas. The subareas of the USGS are shown on Figure 9.

Page Preceding Foldout

# Figure 9

## USGS SUBAREAS




- Pajaro River
- Springfield Coastal Terrace
- Gabilan Creek
- Tembladero Creek
- Elkhorn Slough
- Moro Cojo Slough
- USGS Subarea Boundaries
- B-8 Moratorium Area
- Study Area Boundary
- County Line
- Township and Range Grid

MILES

0 1.25 2.5

Source: MCWRA

*North Monterey County Hydrogeologic Study*

FUGRO

MONTEREY COUNTY CALIFORNIA 1850

Comparison of the USGS scheme with the DWR scheme reveals some similarities and variations. The USGS and DWR agree on the Springfield Terrace area. The Pajaro lowlands subareas ($P_1$ and $P_2$) of the USGS compare with the Pajaro subarea of DWR. The USGS scheme has subdivided the overly broad DWR Hill subarea into 12 smaller subareas. Some of these subareas suggested by the USGS are based on geology and improve understanding of this area; however, other subareas within the Hill subarea appear arbitrary and are inferred to be based on factors other than hydrogeology. The mixing of subareas based on hydrogeology with those based on other factors complicates the understanding and management of the ground water resources of the area.

***Anderson-Nichols, Inc. - Prunedale Study Area, Moratorium Area.*** In response to the findings of the DWR and USGS, a study was performed by A-N (1980) focusing on the area deemed to be "water-short." The study area included the area designated by the USGS as the "zone of complex hydrogeology," essentially the area underlain by and containing the granite ridge. This study concluded that water supply was limited, and resulted in the placing of a moratorium on land subdivisions in the area. The boundaries of the study area were later slightly refined for purposes of establishing the moratorium area (A-N, June 1980). The moratorium area is shown on Figure 9.

***Model Subareas of Montgomery Watson.*** Another division scheme for the study area is that suggested by JMM (1993) as part of the modeling efforts of the Pajaro and Salinas Valleys. In the Pajaro model, JMM divides the area south of the Pajaro River into six subareas: Springfield Terrace, Carneros Hills, Carneros Creek, and several subareas within the Pajaro Valley floor. With the exception of the Springfield Terrace subarea, the divisions are based on criteria other than hydrogeology. These criteria include conformance with administrative and political boundaries, land use designations, and drainage areas. The areas are not intended to be hydrogeologic subareas. The model of the Salinas basin does not subdivide any of the North County area covered by this model (MW, 1994). The North County study area is included as part of either the Pressure or East Side areas, as appropriate.

***Monterey County Water Resources Agency Areas.*** In addition to the above division schemes, the Agency utilizes another for purposes of organizing data. The agency subareas are the Pajaro-Springfield, Prunedale, and Moro-Cojo areas. Although these areas are not strictly intended as hydrologic subdivisions, the Agency's Pajaro-Springfield area is roughly equivalent to DWR's Pajaro, Springfield, and Aromas area, while the Agency's Prunedale and Moro-Cojo areas are roughly equivalent to DWR's Hill area.

**Revised Hydrogeologic Subareas.** Review of the previous division schemes and the available and recently acquired hydrogeologic data provide a basis for developing revised subareas that better reflect the hydrogeology of the areas. The new subareas are designed to divide the North County into smaller areas of similar hydrogeologic conditions. Included in this criteria

were factors such as long-term availability of water, well yields, depth to bedrock, susceptibility to water quality problems, volume of ground water in storage, and sources of recharge. Based on this criteria, five subareas were developed. The revised subareas were presented to the inter-agency technical advisory committee on April 24, 1995, and were accepted. As accepted, the revised subareas are as follows:

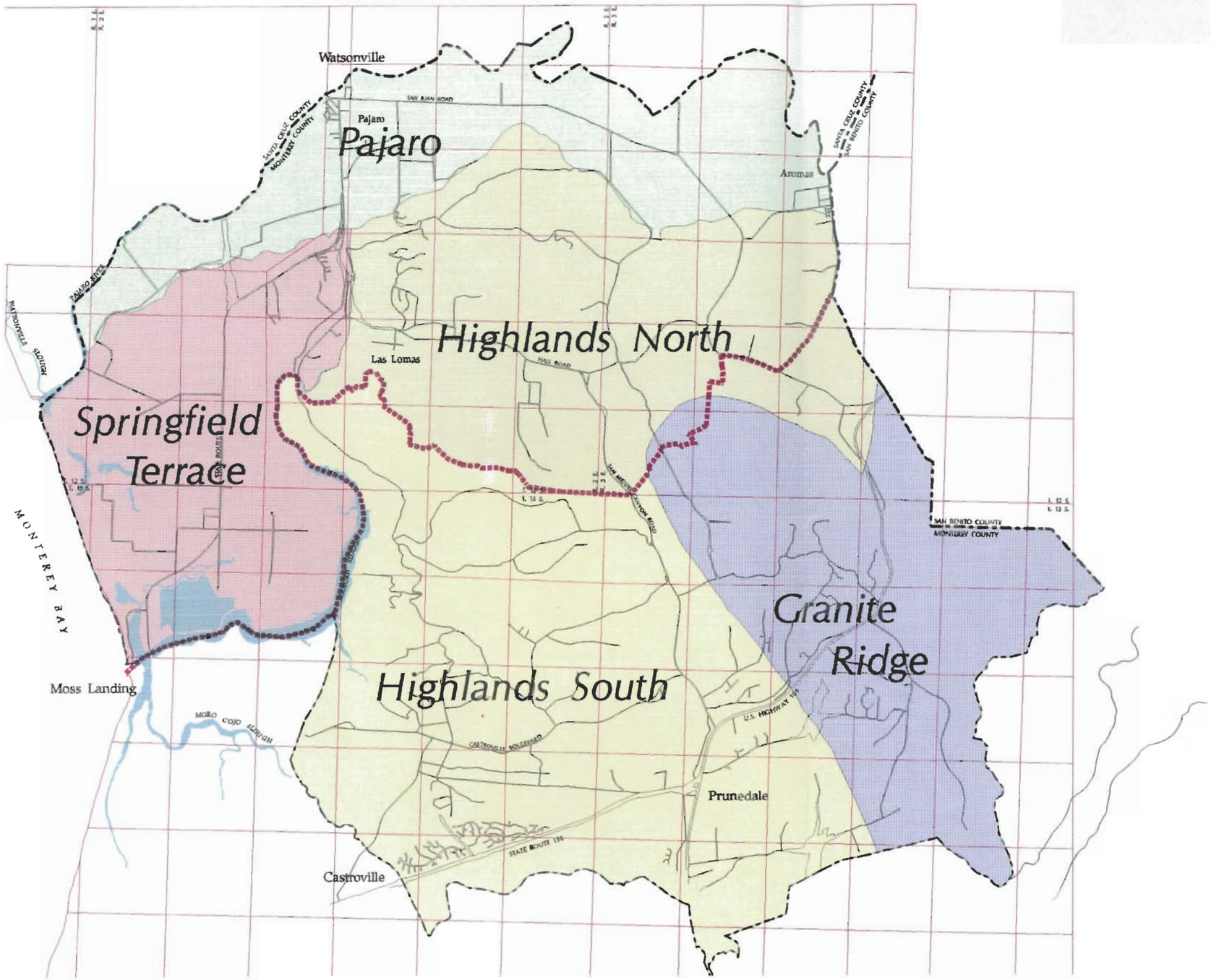
1. Pajaro
2. Highlands North
3. Highlands South
4. Granite Ridge
5. Springfield Terrace

The five subareas most closely resemble the subarea scheme of DWR, except that the Hill subarea has been renamed to Highlands and the eastern portion divided and renamed as the Granite Ridge area to reflect the very different conditions between the areas underlain by granitic rocks at shallow depths and the areas to the west. The Highlands subarea was also divided into a north and south highlands subarea to respect the jurisdictional boundary of PVWMA and the Agency. This boundary is purely jurisdictional because ground water moves freely between the subareas. The DWR Aromas subarea was eliminated because available evidence suggests that the Vergeles fault does not disturb recent sediments; therefore, it does not represent a barrier to ground water flow (Gribi, 1989). Available data also suggest that hydrogeologic conditions are more similar to other portions of the Pajaro Valley than the adjacent Highlands area. The new subareas are presented on Figure 10 - Revised Subareas North County Study Area.

***Pajaro.*** This subarea is the portion of the study area that is within the Pajaro River floodplain south of the Pajaro River and west of the San Benito County line. This subarea is essentially the DWR Pajaro subarea, with the inclusion of the portion of the DWR Aromas subarea that is within the floodplain. It is also essentially equivalent to the USGS subareas of P1 and P2. The subarea is defined by the nature of the sediments (recent Pajaro alluvium) and the dominant source of recharge, infiltration from the Pajaro River, either locally or in the (upgradient) forebay. The area is characterized by as much as 800 feet of saturated sediments interpreted as either Aromas Sand or alluvium. Well yields are high, with agricultural wells producing in excess of 2,000 gallons per minute. The volume of ground water storage in the subarea is large and ground water is readily available to all users. Supply problems are in the form of overall storage depletion, which is manifested to the users as falling water levels. This overdraft also results in localized degradation of water quality from intruding seawater for the users near the coast. Water quality problems are from elevated nitrate ion concentrations resulting from irrigated agriculture and, near the coast, seawater intrusion.

# Figure 10

## NORTH COUNTY STUDY AREA REVISED SUBAREAS




- Pajaro
- Springfield Terrace
- Granite Ridge
- Highlands North
- Highlands South
- PVWMA Boundaries
- Study Area Boundary
- County Line
- Township and Range Grid

MILES

0 1.25 2.5

Sources: MCWRA, Fugro

*North Monterey County Hydrogeologic Study*

***North and South Highlands.*** These subareas are a refined version of DWR's overly broad "Hill" subarea. Taken together, these subareas encompass the largest area. It includes the area east of Slough, south of Pajaro Valley, north of the Salinas Valley, and west of the newly defined Granite Ridge subarea. Establishing a boundary between the Highland and Granite Ridge subareas is difficult because the transition between hydrogeologic conditions is gradual. The transition can be characterized as changing from a relatively thick section of saturated sediments which thin with increasing distance eastward until the granitic bedrock is above regional saturation. As the saturated section of sediments becomes thinner, well yields and aquifer storage characteristics change significantly. Although somewhat arbitrary, the proposed boundary has been defined as the point where the elevation of the underlying granitic bedrock is greater than -100 feet MSL. Given that current water levels in the areas proximate to the granite ridge area are approximately at an elevation of sea level, the establishment of the suggested boundary would separate areas with more than 100 feet of saturated sediments from those areas having less. Given the falling water level conditions in the area and the variable well yields, it is considered that 100 feet of saturation will provide for long-term water supply from wells. Areas with less than this amount may experience limited yields, drought susceptibility, and possibly water quality problems.

The Highland subareas can be characterized as having up to 800 feet of saturated sediments overlying the Purisima Formation. Most of the saturated section is Aromas Sand, with localized areas of saturated alluvium. Recharge is from infiltration of rainfall not lost to runoff or evapotranspiration. Well yields, while less than those displayed in the Pajaro subarea, are good in these subareas, with municipal and irrigation well discharge rates as high as 1,500 gpm. Like the Pajaro subarea, the volume of ground water in storage in these subareas is large, and ground water is readily available. However, the subareas have experienced long-term trends of falling water levels, reflecting chronic storage depletion. Most of the area displays water levels below sea level. The occurrence of water levels below sea level in this area results in the localized degradation of ground water by seawater, from both seawater intrusion and leakage from the Slough (the leakage is explained later in this report). The Highlands subareas are also impacted by elevated nitrate ion concentrations within the upper portion of the aquifer system. Available data suggests that nitrate ion concentrations decrease sharply with increased depth below saturation.

***Granite Ridge.*** This subarea is east of the Highlands area to the San Benito County Line. It includes the outcrops of granite and Tertiary marine sediments east of the Vergeles fault and where these materials occur at elevations greater than -100 feet MSL. Recharge in this subarea is limited to infiltration of excess precipitation. This subarea displays a variety of water availability problems manifested as "dry holes," low-yielding wells, and supplies that fail under drought conditions. These problems reflect the hydrogeologic setting. Some of the wells in the area are completed in a thin veneer of Aromas Sand overlying the granitic bedrock or in the weathered granite. Wells completed in these granular materials (Aromas and weathered granite)

display low yields (typically less than 50 gpm) because of the limited saturated thickness of these materials. The remaining wells in the area are completed in the fresh granite or other consolidated formations. Well yields in the consolidated rocks (granite and Tertiary sediments) are very low and highly variable (typically less than 5 gpm).

The low volume and high variability of the yields reflect that ground water in these formations occurs within fractures. The movement and availability of ground water in these materials is controlled by the occurrence, connectedness, and distribution of fractures. The distribution and connection of fractures to sources of possible recharge within fractured bedrock are essentially random, and the success of a well is a matter of chance. It is possible in this hydrogeologic setting to drill a well that intersects so few saturated fractures that it is deemed a "dry hole."

Ground water storage within this subarea is extremely limited. This compounds the water availability problems within the subarea. The aquifer's low storage limits supply during periods of deficient recharge. Additionally, the low permeability limits the distribution of pumping stress throughout the subarea. This makes the use of a water balance somewhat misleading. Although the water may be accounted for within the system, it may not be available for extraction at any given location.

Water quality problems in the subarea are limited to localized elevated concentrations of nitrate ions resulting from septic and agriculture return flows. Nitrate contamination problems are also exacerbated by the limited storage available for dilution. Wells in fractured granite are susceptible to contamination from unpredictable locations, as the areas of contribution to these wells are difficult to define.

***Springfield.*** The Springfield subarea is consistent with both the USGS and DWR's previous subarea scheme. Although the subarea is similar in geologic setting to the Highlands subarea, the Springfield subarea is, at least to the south and southeast, hydraulically separated from the rest of the study area by the low permeability materials filling the ancestral Elkhorn Valley. This boundary, as well as the western boundary with the Pacific Ocean, has been the basis for the previous definition of this subarea, and is still considered valid.

Well yields are comparable with those in the adjacent Highlands area. Water supply problems are manifested as chronic storage depletion, with current water levels below sea level throughout the area. Water supply is locally limited by water quality problems. Increasingly, supplies are limited by elevated chloride ions resulting from the intrusion of seawater from the ocean and possibly the Slough area. Adequate domestic supply is limited by widespread high nitrate ion concentrations in the subarea. Within the study area, the Springfield subarea is experiencing both the highest measured levels of nitrate contamination and highest percentage of wells with nitrate contamination.

## Aquifer Parameters

Data to characterize the hydraulic properties of the individual aquifer units in the study area are sparse. In many areas, wells are completed in multiple units. Well yields and aquifer parameter data are, therefore, composites of various units. For purposes of understanding the hydrogeology of the study area, available data were aggregated by subarea rather than individual aquifer units. This was considered reasonable because the lithological differences between the formations that constitute the water bearing units in the Highlands, Pajaro, and Springfield subareas are minimal; the most significant factor affecting well performance being the saturated thickness of permeable materials.

Well performance data in the form of discharge, drawdown and specific capacity data (ratio of production to drawdown) were derived from well logs available from the Agency, water system reports from MCDEH, pump tests performed as part of this study, and various other sources. These data are presented in Appendix B. The data set includes municipal, agricultural, and domestic wells. As such, the data set includes wells constructed with varied design criteria, efficiencies and discharge rates. These variations in design skew interpretation of the data. For example, wells constructed for domestic use are designed, constructed and developed to meet a minimum flow requirement. These wells typically utilize a small diameter casing with relatively inefficient intake section. The resulting discharge rate and specific capacity data from these smaller wells is typically low due to efficiency losses. Data from these wells can misrepresent the aquifer system. Additionally, the data set, for any given subarea, includes varying percentages of domestic verses high capacity wells, skewing analysis based on averages.

In reviewing the data for a subarea, the highest and lowest discharge rate were determined as well as the average specific capacity for all the wells. The most significant factor is the occurrence of higher discharge or specific capacity values. Such values are typically derived from well-designed, high-capacity wells for agriculture or municipal supply. In a given subarea, the absence of wells with high discharge rates or a high specific capacity value is much more significant than the occurrence of low rates, which may represent inefficient wells rather than low-yielding aquifers. In spite of these limitations in the data set, the differences and similarities in the various hydrogeology subareas are still apparent in the resulting data. The data are summarized in Table 2 - Summary of Well Performance Data.

**Table 2. Summary of Well Performance Data**

| Subarea | Max. Discharge (gpm) | Min. Discharge (gpm) | Max. Specific Capacity (gpm/ft) | Min. Specific Capacity (gpm/ft) | Average Specific Capacity (gpm/ft) |
|---|---|---|---|---|---|
| Granite Ridge | 180 | 1.5 | 12.5 | 0.01 | 0.5 |
| Highlands | 1,500 | 6 | 71.43 | 0.13 | 4.1 |
| Pajaro | 2,100 | 18 | 31.75 | 0.67 | 15 |
| Springfield | 1,900 | 3 | 40 | 6.15 | 4.15 |

As could be expected, given the hydrogeologic setting, the average specific capacity and maximum discharge rates are lowest in the Granite Ridge subarea. The well performance data for the remaining subareas reveal these areas to be comparable given the variability and completeness of the data set. The comparability of these values is consistent with the nature of the aquifer materials.

## Aquifer Testing

In order to develop better aquifer parameter data, aquifer tests were performed at five locations in the study area. Well locations were selected based on a criteria including availability of well construction and lithologic data, logistics of use of water by well owner, ease of water disposal, and owner's permission. After review of the existing well ownership data, it was apparent that the most feasible wells on which to perform aquifer testing were those operated by the larger water companies in the area; Aromas Water District and California Water Service, Co. (Cal-Water).

Each of these water companies was approached regarding the feasibility of testing several of their wells. Cal-Water granted permission and participated in the performance of four aquifer tests, two in the Las Lomas Water System and two in the Oak Hills water system. Aromas Water District declined to participate due to concerns regarding possible damage to the well pumps. An additional aquifer test was performed on the newly constructed well in the County-owned Royal Oaks Park.

Each aquifer test consisted of a minimum of 100 minutes of pumping at a constant discharge rate followed by an equal recovery period. Test durations were limited by the storage capacity of the water systems. The aquifer test at Royal Oaks was performed for a period of 22.5-hours. After performance of the tests, data were analyzed utilizing conventional (Jacob-Cooper) aquifer analysis methods. The test data and analysis are contained in Appendix C - Aquifer Testing. The data are summarized in Table 3 - Summary of Aquifer Test Data.

**Table 3. Summary of Aquifer Test Data**

| Well No. | Well Name | Subarea | Discharge Rate (gpm) | Specific Capacity (gpm/ft) | Transmissivity (gpd/ft) |
|---|---|---|---|---|---|
| 13S/02E-24TO2 | CWS Oak Hills 202 | Highlands S. | 412 | 12.9 | 35,700 |
| 13S/02E-26CO1 | CWS Oak Hills 203 | Highlands S. | 585 | 20.9 | 37,316 |
| 12S/02E-22Q50 | CWS Las Lomas 303 | Highlands N. | 475 | 42.5 | 249,500 |
| 12S/02E-27? | CWS Las Lomas 301 | Highlands N. | 150 | 24.2 | 67,700 |
| 13S/02E-06? | Royal Oaks | Highlands N./Granite R. | 100 | 3.95 | 37,700 |

The collected well performance data and aquifer test data were provided to Montgomery Watson to allow refinement of the existing ground water models covering the study area.

## WATER LEVEL/EXISTING CONDITIONS

### Water Level Data

Water level data from the Agency database and from field surveys were utilized to prepare water level hydrographs and ground water surface elevation contour maps. Hydrographs were prepared for each study well that had sufficient data. The location of the study wells are presented on Figure 8. In addition, hydrographs were prepared for selected wells in adjacent areas (East Side, Pressure Area [180-foot and 400- foot and Deep Aquifers]) for purposes of comparison. Hydrographs are presented in Appendix D - Water Level-Chemical Hydrographs. The water level database was also utilized to analyze trends in water level throughout the study area. Water surface elevation data were compared for each well for the years 1970, 1980, and 1990. These three intervals were used to examine the sensitivity of the analysis to drought periods. Average annual water level change in each well was calculated for each interval and averaged by subarea. The analysis is included in Appendix I. The results of the analysis are presented in Table 4 - Summary of Ground Water Level Trend Analysis.

**Table 4. Summary of Ground Water Level Trend Analysis**

| Subarea | No. of Wells | Annual Average WL Change (1970-1980) (feet) | Annual Average WL Change (1980-1990) (feet) | Annual Average WL Change (1970-1990) (feet) |
|---|---|---|---|---|
| Granite Ridge | 7 | -0.54 | -0.13 | -0.34 |
| Highlands | 15 | -0.56 | -0.54 | -0.55 |
| Pajaro | 12 | -0.42 | -1.09 | -0.75 |
| Springfield | 16 | -0.48 | -0.50 | -0.49 |

The water level trend analysis reveals a general long-term trend of declining water levels in the study area. Water level declines are greatest in the Pajaro subarea where agricultural demand is the greatest. Water level declines are least in the Granite Ridge Subarea, consistent with the reduced level of extractions in this area due to limited well yields.

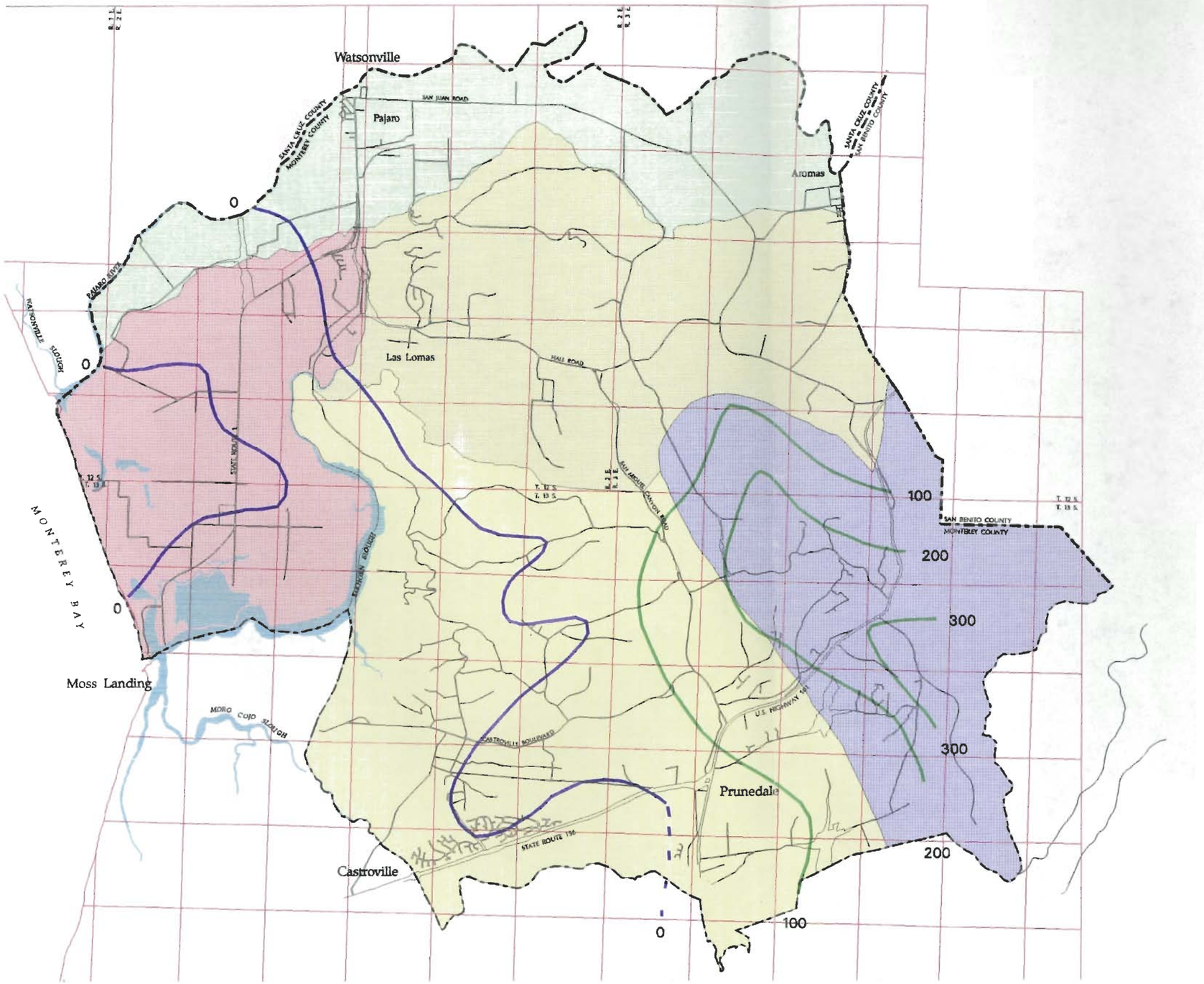
**Areal Analysis of Water Level Data**

Review of the water level hydrographs revealed the historical basin high to be best represented by water level data collected during the winter of 1982/1983. These data are presented on Figure 11 - 1983 Water Levels. Review of the water level data also revealed that current water level conditions, as measured during August/September 1994 as part of this study, closely represent conditions of the historical basin low, although some wells displayed slightly lower water levels in the fall of 1991. However, given the greater amount of data available for current conditions, the presentation of the more recent data was considered representative of general conditions. These data are presented on Figure 12 - 1994 Water Levels. Figure 11 was contoured at a minimum of 100-foot intervals because of the limited amount of data. Figure 12 was contoured on a minimum of 5-foot intervals because of the substantially improved data density because of the data collection efforts performed as part of this study. Additional data were also provided by Pajaro Valley Water Management Agency (PVWMA). Wells used in contouring were interpreted to be in equivalent aquifer units. Wells considered to be completed in localized perched aquifer systems were not included in the regional contours.

**Pajaro and Springfield Subareas.** In the Pajaro and Springfield subareas, ground water elevations as of September 1994 were between zero to 35 feet below mean sea level throughout most of these areas. In general, the ground water surface has fallen about 5 to 10 feet from the 1979 levels documented by the USGS (Figure 13 - 1979 Water Level Contours). As

# Figure 11

## 1983 WATER LEVELS




- Pajaro
- Springfield Terrace
- Granite Ridge
- Highlands North
- Highlands South
- Water Surface - Below Sea Level
- Water Surface - Sea Level
- Water Surface - Above Sea Level
- Study Area Boundary
- County Line
- Township and Range Grid

MILES

0 1.25 2.5

Sources: MCWRA, PVMVA, and Fugro

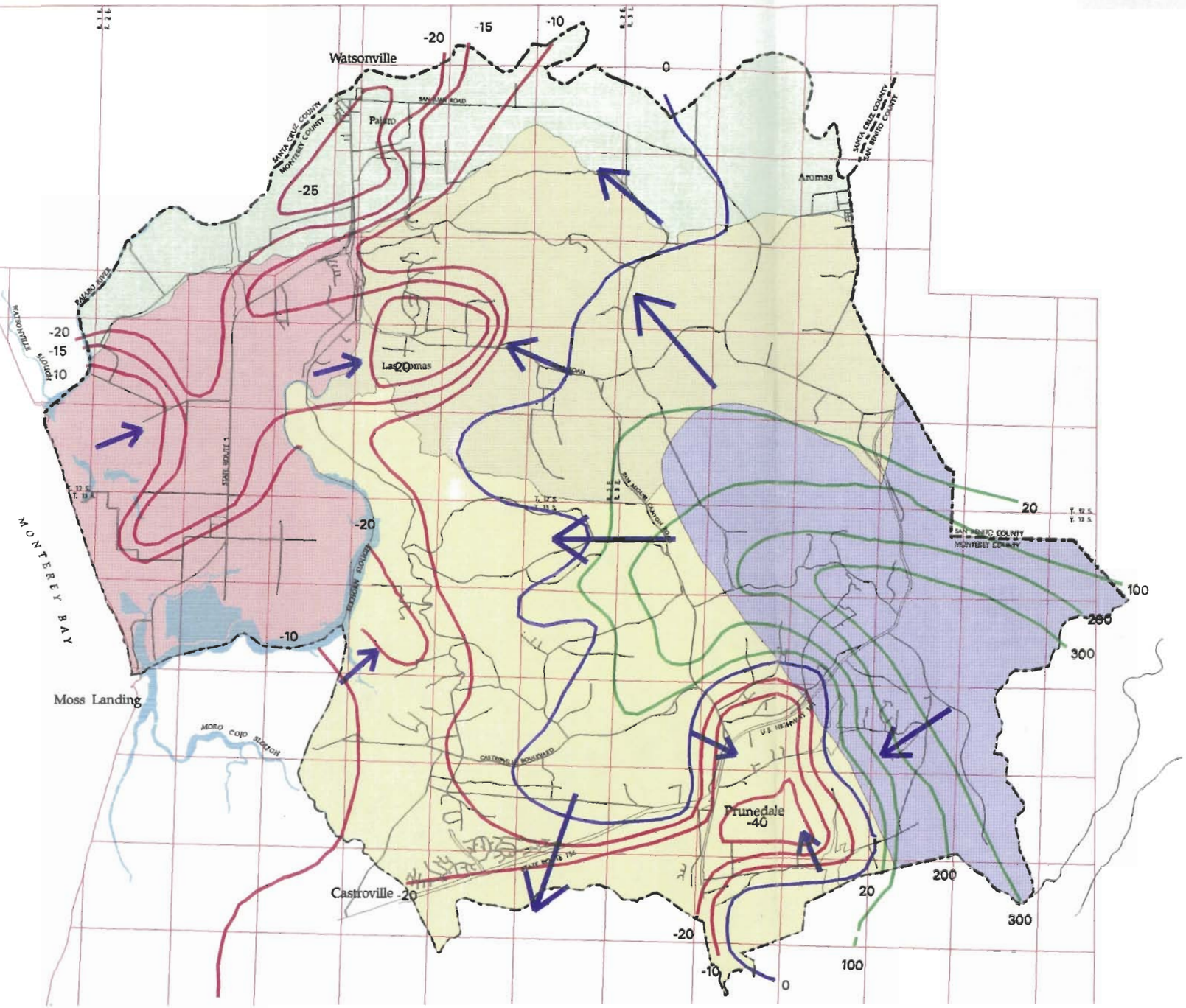
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# Figure 12

## 1994 WATER LEVELS




- Pajaro
- Springfield Terrace
- Granite Ridge
- Highlands North
- Highlands South
- Water Surface - Below Sea Level
- Water Surface - Sea Level
- Water Surface - Above Sea Level
- Study Area Boundary
- County Line
- Township and Range Grid

Note: Arrows indicate direction of ground water movement

MILES

0 1.25 2.5

Sources: MCWRA, PVMVA, and Fugro

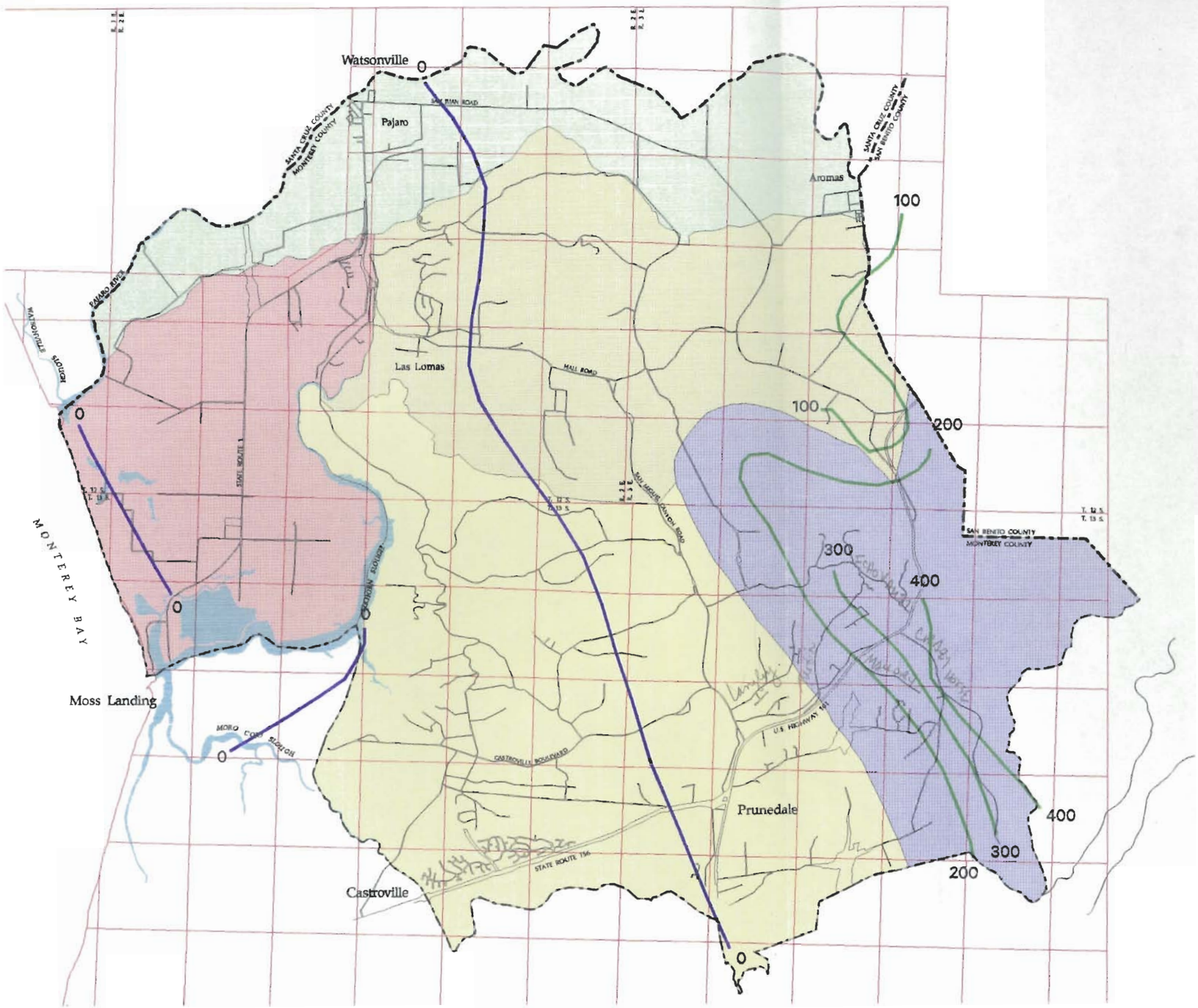
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# Figure 13

## 1979 WATER LEVELS




- Pajaro
- Springfield Terrace
- Granite Ridge
- Highlands North
- Highlands South
- Water Surface - Below Sea Level
- Water Surface - Sea Level
- Water Surface - Above Sea Level
- Study Area Boundary
- County Line
- Township and Range Grid

MILES

0 1.25 2.5

Source: USGS

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shown on Figure 11 ground water surface elevations recovered slightly from 1979 levels in response to the increased recharge and reduced pumping, the result of above-average precipitation of 1983. However, water level declines since 1983 have more than offset the limited gains of the preceding few years. Since 1979, much more of the study area has had water levels at or below sea level. These declines are part of a longer-term, gradual downward trend in the regional aquifer water surface elevations over the entire period of record.

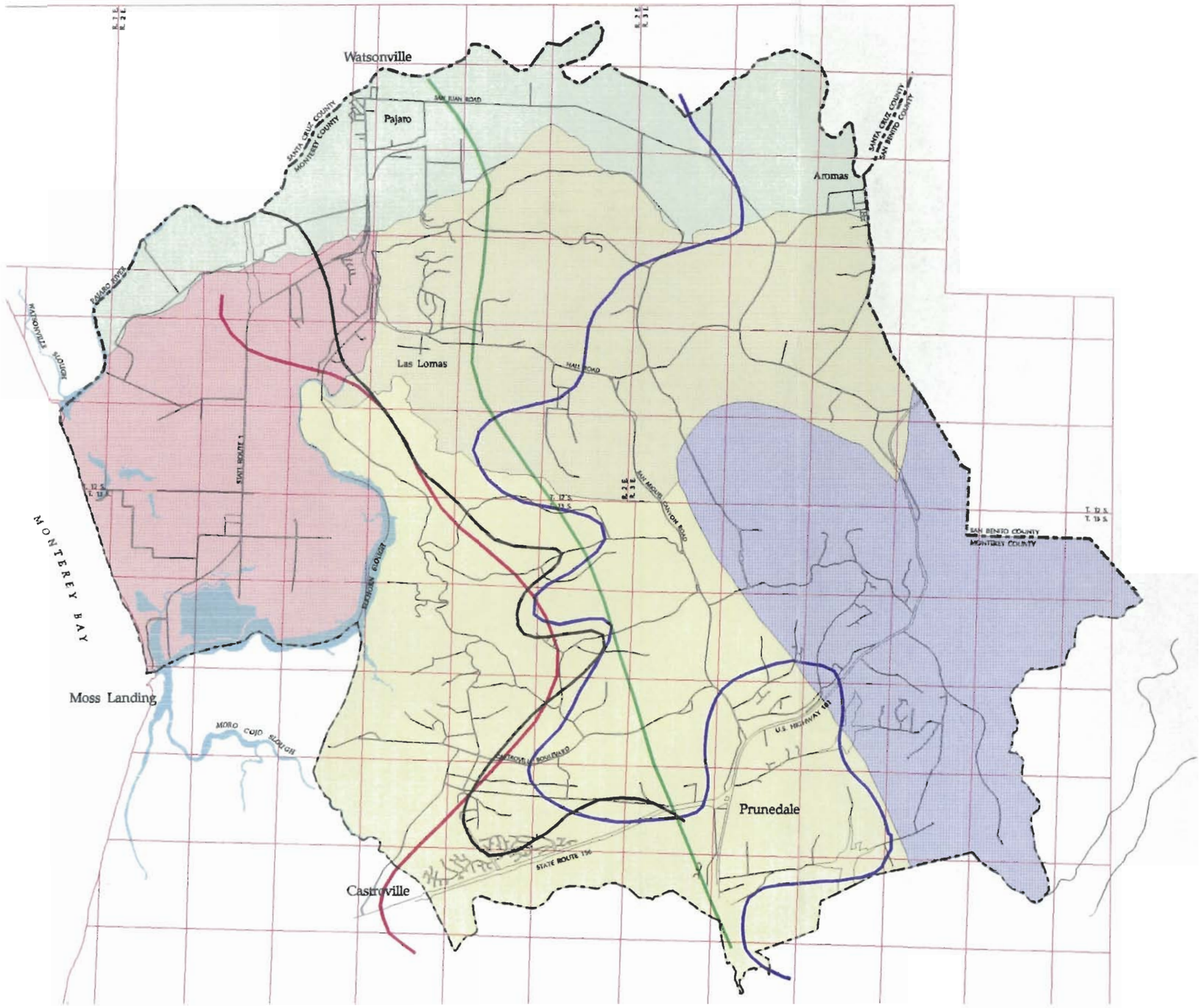
**Highlands Subareas.** Water levels in the Highlands subareas have consistently declined over the last 20 years. Of note are the development and growth of several pumping troughs in the area. Figure 12 shows a significant pumping trough in the Prunedale area which has developed (or for which data is now available) since 1979 with water levels exceeding 40 feet below mean sea level (MSL) in some places. Also apparent is the presence of a pronounced pumping trough in the Las Lomas area with water levels approaching -25 feet MSL. The trough at Las Lomas is the northern portion of a larger north-south trending pumping trough lying approximately 2 to 4 miles inland from and parallel to the coast. The trough has deepened and moved landward since December 1979, when documented as part of the USGS study. Between the axis of the pumping troughs and the coast, ground water movement is landward, allowing seawater to move into the aquifers through offshore exposures and to migrate inland. The extent and mechanisms of seawater intrusion are described in a later section.

The water level data for the Highlands subareas, taken collectively, suggest a regional dewatering of these subareas with water levels retreating toward the buried bedrock ridge. The pumping trough in the Prunedale area strongly suggests a boundary condition to the north and east represented by the diminishing saturated thickness of aquifer materials in these directions. The historical movement of the zero elevation water level contour is presented on Figure 14 - Historical Sea Level Contours.

**Transition Area Between Highlands and Granite Ridge.** Water level measurements from several domestic wells in the zone of transition from the Highlands to the Granite Ridge area, (those areas east and northeast of San Miguel Canyon and near Prunedale) reflect the significantly different hydrogeologic conditions. Most of these wells have maximum depths that lie above sea level and are completed in either the Aromas Sand which is lapped against the underlying weathered granite, the weathered granite, or both. Water levels in these wells show a great range in water surface elevations (-40 to 270 feet ) reflecting their completion in both the regional and perched aquifers. Available data are insufficient to characterize regional trends in this area. However, data from the recently completed Royal Oaks Park Well suggests that water levels continue to fall and that water levels in the regional aquifer system in this area are locally below sea level.

# Figure 14

## HISTORICAL SEA LEVEL CONTOURS




- Pajaro
- Springfield Terrace
- Granite Ridge
- Highlands North
- Highlands South
- 1994 Contour (Fugro)
- 1983 Contour (Fugro)
- 1979 Contour (Johnson, 1983)
- 1969 Contour (Johnson, 1983)
- Study Area Boundary
- County Line
- Township and Range Grid

MILES

0 1.25 2.5

Sources: MCWRA, PVWMA, and Fugro

*North Monterey County Hydrogeologic Study*

**Granite Ridge.** Most wells in the hilly region east of Maher Road and near Crazy Horse Canyon north of Prunedale are completed in either a thin veneer of Aromas or completed in weathered and fractured zones of granite. As shown on Plate 2, the granitic basement in this area slopes steeply west and south from an approximate elevation of 300 to zero feet MSL. Wells in this area have water levels perched above and in the granitic basement. Ground water elevations in these wells range from approximately 100 to 400 feet MSL. Some wells perforated in the weathered and fractured granite display rapidly decreasing water levels. This occurs with the removal of water stored in fractures which is not readily recharged.

## GROUND WATER MOVEMENT

Ground water movement is controlled by differences in water level elevations or pressure. Water at higher pressure or elevation moves to areas of lesser pressure or elevation. In the study area ground water moves generally westerly, northerly, and southerly from the Granite Ridge area into the Highlands South, Highlands North, and Salinas Valley, respectively. The current directions of ground water flow in the study area is shown on the 1994 water level contour map.

Ground water flow directions are locally effected by the development of various pumping troughs in the study area. Most significant are the developed pumping troughs in the Prunedale and Las Lomas areas and a coastal pumping trough along Elkhorn Slough. In these areas, regional flow directions are disturbed. Ground water moves radially towards these pumping centers. Ground water flow in the areas immediately adjacent to the Granite Ridge area are also influenced by the permeability boundary which is represented by the change in aquifer properties and thickness.

Much discussion was focused on the importance, existence and volume of regional ground water flow from the study area into the adjacent Pajaro and Salinas Valleys. The existence of this regional flow has been identified on the basis of historical water level gradients between these areas. While current water levels in the majority of the study area are still higher than the adjacent areas, this difference is decreasing, reducing the volume of recharge from these upgradient areas.

Consideration of the natural flow system in the study area and the adjacent areas raises the question of ground water flow direction between the study area and the adjacent areas prior to alteration of water level conditions resulting from ground water extractions. The large majority of the recharge in both the Pajaro and Salinas Valleys is derived from the respective river systems. In the study area, recharge is much less and limited to the infiltration of a minor portion of total precipitation. Prior to the onset of ground water extractions in the beginning of this century, both the Salinas and Pajaro Valleys contained many flowing (artesian) wells. These data suggest that before extractions in the adjacent river valleys began, ground water from these valleys may have

been tributary to the study area (rather than the current conditions). Additionally, prior to extractions in the study area, the natural flow fresh water regime probably included surface discharge into the Elkhorn Slough system as a part of the flow regime.

## WATER QUALITY

### General Statement

Current water quality conditions within the study area were assessed utilizing both existing data and water quality data collected as part of this investigation. Existing water quality data were summarized and, where needed, supplemented with specific sampling. While ground water quality in the study area is generally excellent to good, localized water quality problems, specifically elevated nitrate and chloride ion concentrations, do exist and are increasing. This investigation focused primarily on these two water quality parameters.

### Data Review/Existing Conditions

#### Data Sources

***Chemical Hydrographs.*** Water quality data from the Agency study wells were utilized to prepare chemical hydrographs for selected constituents. Specific electrical conductivity (SEC) and nitrate ion concentration are presented for the eastern portion of the study area. In the western portion of the study area, chloride ion concentrations are also presented to document the occurrence of contamination of ground water by seawater. The chemical hydrographs are also included in Appendix D.

***Small Water System Water Quality Data.*** As part of the review of the water system data, water quality data was tabulated from the files of Monterey County Division of Environmental Health (MCDEH). Nitrate ion concentration data were collected and tabulated if the construction of the well sampled was known or the water level data were available. This allowed the segregation of the water quality data into two groups, data from wells producing from the many isolated perched aquifer systems in the area and data from those in the regional aquifer system.

***Water Quality Sampling.*** After review of the existing water quality data, specific ground water quality samples were collected from 10 locations within the study area. Samples were collected in areas where data were sparse and in areas where existing data was either questionable or interpretation was difficult. Particular attention was paid to those areas near Elkhorn Slough for purposes of assessing degradation due to seawater. Collected water quality samples were provided to the Agency for analysis at the Monterey County Consolidated Laboratory. The analytical program was limited to major cations, anions and nitrate ions. These data are included in Appendix E.

## Ground Water Quality

Ground water quality in the study area is generally good to excellent. Where not impacted by seawater contamination, ground water in the study area is generally of a calcium bicarbonate chemical character with electrical conductivity averaging 450 micromhos/cm. Water quality is impacted by seawater contamination and elevated nitrate ions, although the extent of the contamination varies with each subarea. The levels of contamination are increasing over time. In addition, while specific data are not available, poor water quality has been documented in the Murphy Crossing-to-Aromas region of the Pajaro subarea.

**Elevated Chloride Ions.** Chloride ion concentration data from Agency study wells shows an historical range from 17 to 9,000 milligrams per liter (mg/l)[2]. The chloride ion concentration in the native ground water in the area is typically below 70 mg/l. Elevated values are the result of degradation by saline water or localized land use impacts. Water quality data from selected Agency study wells, tabulated in Table 5, demonstrate the ongoing degradation of water supplies from increasing chloride ion concentrations. Given the location of these wells, the increasing chloride ion concentrations are likely the result of seawater contamination. In addition to the wells showing clear evidence of contamination, several other wells show some evidence of increasing chloride and/or electrical conductivity values. Considering the location of these wells, this may indicate the onset of seawater contamination. These wells are also listed in Table 5 - Summary of Agency Study Wells with Elevated Chloride Ion Concentrations. The locations of the wells are on Figure 8.

***Areal Distribution of Elevated Chloride Ions.*** The areal distribution of saline water degradation of ground water supplies in the North County area, as portrayed by the 100 mg/l and 500 mg/l chloride ion contour lines for various years, is presented on Figure 15 - Seawater Intrusion. The Springfield Terrace and areas adjacent to the Slough are impacted. The impacted area has increased appreciably since 1979. Elevated chloride concentrations now occur in a 1 to 4 mile wide strip along the coast throughout the study area. Since 1979, approximately 927 additional acres overlie aquifers that have become intruded to the 500 mg/l level, and 2,190 additional acres to the 100 mg/l level.

***Relationship Between Chloride Ion Concentration and Well Depth.*** Chloride ion contributions to the ground water system result primarily from mixing of aquifer water with sources of saline water. In most cases this is a saline water body such as the ocean. However, in the study area this also includes the Slough. In either case, the source of saline water is at an elevation of approximately sea level and below. The degradation of ground water by the introduction of seawater from either the Slough or the ocean, therefore, can only affect ground water quality within aquifers at elevations below sea level. Given this relationship, some

[2] Drinking water standard for chlorides is 250 mg/l.

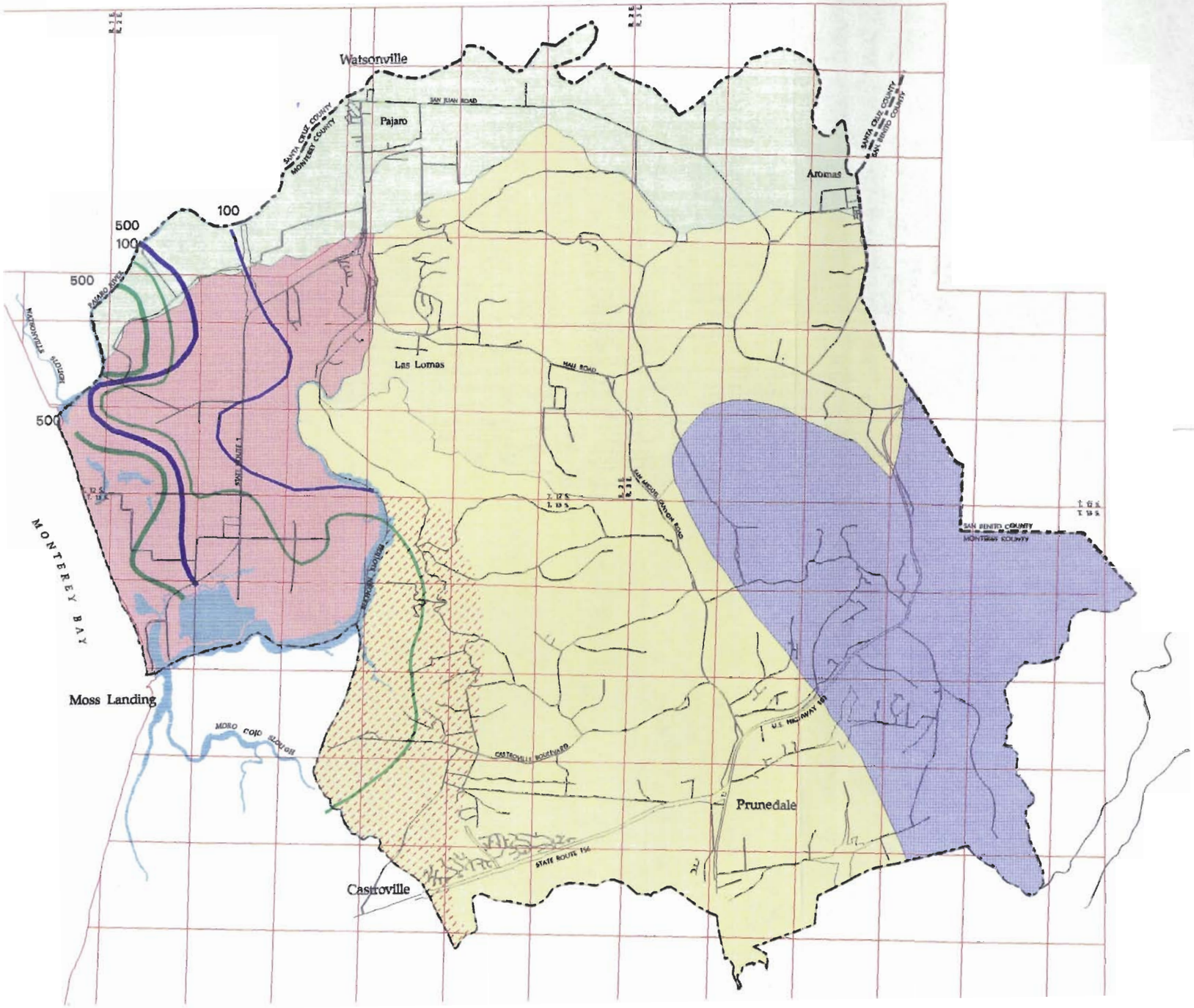
understanding of the source of saline degradation is possible through the evaluation of the chloride concentrations and elevations of well perforations. The relationship of chloride ion concentration to elevation of perforated interval was evaluated in the Pajaro-Springfield, and Highlands subareas. All wells with water quality data for which water level, wellhead elevation, and well construction data were available were reviewed. From these data, plots of chloride ion concentration verses elevation of perforated interval were prepared.

**Table 5. Summary of Agency Study Wells with Elevated Chloride Ion Concentrations**

| Well No. | Subarea | Screen Elevation (feet) | Chloride Concentration (mg/l) | | Ground Water Elevation (ft) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | 1979 | 1993 | 1979 | 1993 | |
| *Wells with Significant Intrusion Since 1980* | | | | | | | |
| 12S/02E-19A02 | Pajaro | Unknown | <20 | >400 | 0 to -5 | -20 | |
| 12S/02E-30M02 | Springfield Terrace | -148 to -168 | 25 | >375 | -5 | -10 | |
| 12S/02E-31K01 | Springfield Terrace | -134 to -189 | 180 | >300 | 0 to -5 | -5 to -10 | Has varied widely since 1960 |
| 12S/02E-32N01 | Springfield Terrace | -89 to -239 | 50 | 75 to >375 | -15 | -15 | Spiked in mid-1980s only |
| 13S/02E-06R01 | Springfield Terrace | -24 to -94 | 115 | >300 | -5 | -5 to -10 | |
| 13S/02E-03Q1 | Highlands South | -84 to-180 | 120 | ? | -10 | ? | Rapid increase in Cl- in 1984 |
| *Wells with Some Evidence of Elevated Chloride or Electrical Conductivity* | | | | | | | |
| 12S/02E-10J02 | Pajaro | -46 to -122 | 90 | 90 | 0 | -10 | Spiked to > 200 in 1990 |
| | Springfield Terrace | -53 to-204 | 85 | 140 | -5 | -15 | Spiked to > 170 in 1986 |
| 12S/02E-30N01 | Springfield Terrace | -69 to -109 | 80 | 230 | -5 | -10 | Spiked to > 310 in 1986 |
| 13S/02E-10J01 | Highlands South | -68 to -524 | 85 | 140 | -20 | -25 | Increasing since 1990 |
| 13S/02E-05C02 | Springfield Terrace | -92 to-307.7 | 55 | 70 | 5 | 3 | Upward trend since 1980 |

# Figure 15

## SEAWATER INTRUSION




- Pajaro
- Springfield Terrace
- Granite Ridge
- Highlands North
- Highlands South
- 1993 Levels (500 mg/l)
- 1993 Levels (100 mg/l)
- 1979 Levels (500 mg/l)
- 1979 Levels (100 mg/l)
- Zone of Elevated Cl- Ions
- Study Area Boundary
- County Line
- Township and Range Grid

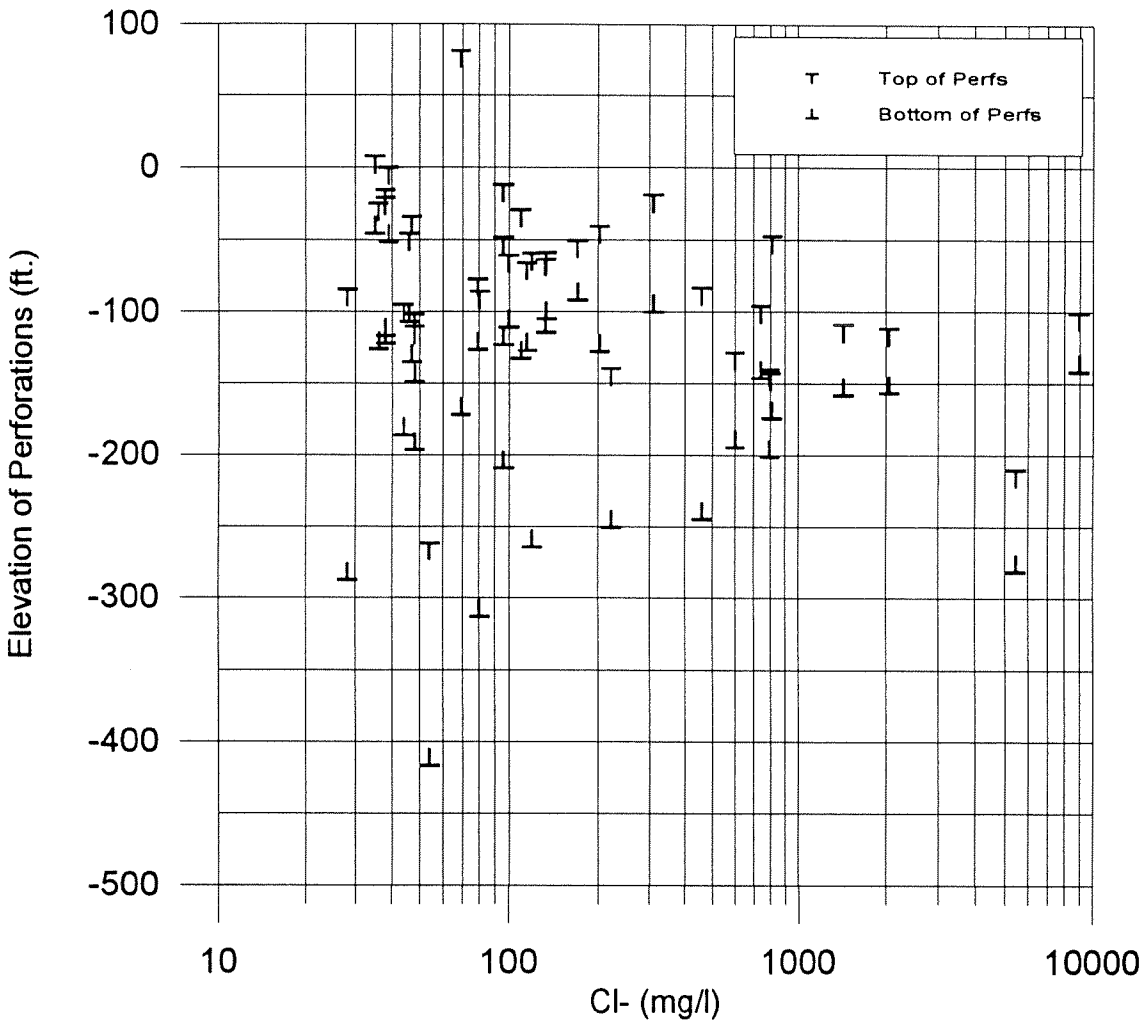
MILES

0 1.25 2.5

Sources: MCWRA, Fugro

North Monterey County Hydrogeologic Study

**Figure 16 Chloride Ion Concentrations verses Elevations - Pajaro-Springfield Area**




Review of Figure 16 Chloride Ion Concentrations verses Elevation - Pajaro-Springfield Area, shows that elevated chloride ions concentrations in the Pajaro-Springfield subarea appear to be centered on a zone between -100 and -130 MSL. The highest value, approaching 9000 mg/l[3], was displayed in a coastal monitoring well maintained by PVWMA. The highest chloride concentrations are being displayed in wells with limited perforations centered on this zone. As the length of the perforated interval increases, the chloride ion concentration declines. This reflects blending with less saline water within the water column. Of note is a single well (12S/2E-30E01) with elevated values of 5400 mg/l and perforation between elevation of -215 and -275 feet. This well is located on the northwestern edge of the Springfield Terrace close to the Pajaro River. This well likely evidences seawater intrusion in the mouth of the Pajaro River alluvium.

[3] The concentration of chloride ions in seawater is approximately 19,000 mg/l.

**Figure 17 Chloride Ion Concentration verses Elevation - Highlands Subarea**

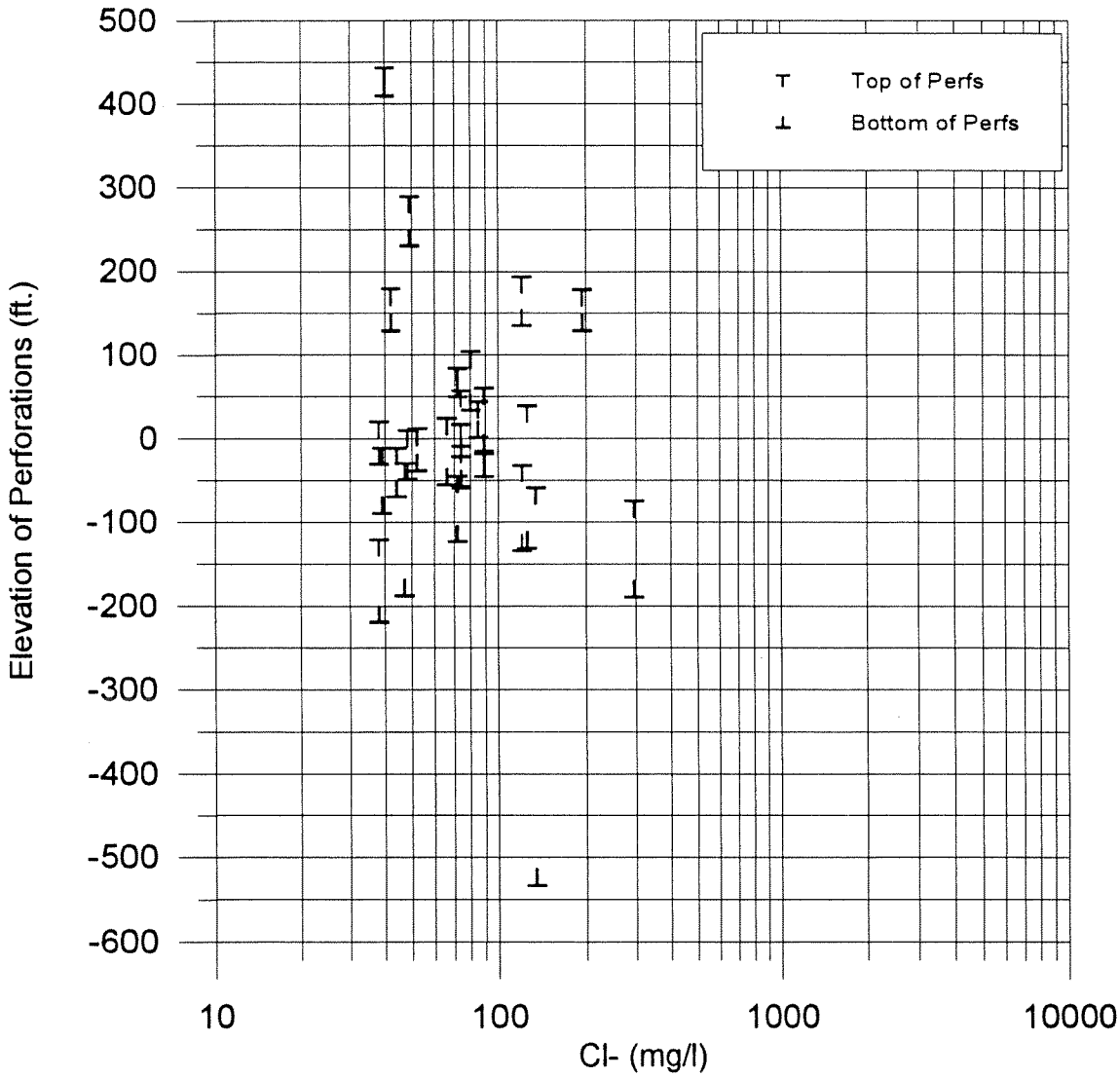



Figure 17 Chloride Ion Concentration verses Elevation - Highlands Subarea, presents chloride ion concentrations verses depth for the Highlands subarea. Maximum chloride ion concentration in this area is approximately 300 mg/l. The data suggests three possible zones of chloride degradation. Two wells (13S/03E-16C3 and -17B1) located in the eastern portion of the subarea and with perforations substantially above sea level display elevated chloride ions of up to 200 mg/l. The mechanism for this degradation is not known but is possibly due to either agricultural return flows or water softener brine discharged through domestic septic systems. Many of the wells that have perforations straddling sea level display slightly elevated concentrations of chloride ions. Many of these wells are located proximate to the Elkhorn Slough and may be evidence of leakage from this water body. Data from one well in the study area with

perforations between depths of -84 to -180 MSL suggests elevated chloride ions at this depth. This well is located immediately adjacent to Elkhorn Slough. The elevated chlorides may indicate leakage from the slough or reflect intrusion from the Coast. The well's perforated interval is consistent with the -100 to -130 MSL zone described in the Springfield area.

***Elkhorn Slough Area.*** The evidence above suggests saline degradation of ground water four miles inland in wells adjacent to the Elkhorn Slough. Previous investigators (Johnson, 1983, DWR 1981), have also suggested that the elevated chloride levels near Elkhorn Slough could be the result of either lateral intrusion of seawater from Monterey Bay or vertical leakage of saline waters from the Slough into the underlying aquifer units.

Distinguishing between the possible sources of saline degradation of the ground water can be assisted through the review of the recent history of Elkhorn Slough. Prior to 1909, Elkhorn Slough was a fresh to brackish water estuary that discharged to the Salinas River. During this period, the Salinas River shared a common mouth with the Pajaro River (Schwartz, 1983). After 1909, Elkhorn Slough became a closed estuary that seasonally breached the beach discharging to the Pacific Ocean. In 1947, the Army Corps of Engineers created Moss Landing Harbor and initiated dredging operations to keep the harbor mouth open. Since then, Elkhorn Slough has been subject to tidal surge and the mixing of fresh and seawater.

The cultural history of the land adjacent to Elkhorn Slough also has bearing on the changes in Elkhorn Slough water quality. Land reclamation efforts in the 1920's resulted in the building of levees along the eastern side of Elkhorn Slough for the development of pasture land for the Elkhorn Farm Dairy. The levees remained in place until 1983 when the area was allowed to return to tidal action as part of a restoration plan. The abandonment of the levees has allowed this area to be seasonally and tidally inundated with Slough water.

Given the history discussed above, the Slough can be considered to have been under tidal influence with the open ocean since 1947. The portion which historically was the Elkhorn Slough Dairy has been under tidal influence since 1983. The recent changes in the flow regime of Elkhorn Slough has undoubtedly resulted in significant changes in the overall water quality of Elkhorn Slough. Historical water quality data are unavailable, however, much can be inferred from recent water quality data. Data for Elkhorn Slough available from the Elkhorn Slough Foundation (1992-94) show the water within the Slough to display EC and chloride ion concentrations ranging from approximately 80 to 110 percent of the concentration of seawater at most sampling locations for most times of the year. These data are included in Appendix E - Water Quality Data. Seasonal variation in these water quality parameters are visible in the data from the Carneros, North Marsh and South Marsh areas, with water quality data showing a freshening in response to surface runoff. However, water quality rapidly returns to concentrations approximating seawater because of tidal mixing. Water quality in Elkhorn Slough prior to the opening of the harbor mouth is estimated to have had a water quality similar to the values now

collected at the Potrero Road sampling stations; values that range from 2 to 40 percent the concentration of seawater, i.e. considerably fresher.

The average quality of the water in the Slough approximates that of seawater except in response to significant runoff events. In the Slough, seawater, as surface water, overlies aquifers containing fresh ground water. Because seawater is denser than fresh water and the current water levels are below sea level within the underlying aquifers, seawater within the main Slough and its fingers moves vertically (downward) into the underlying aquifers. While this is not seawater intrusion in the conventional sense (horizontal movement of seawater through the aquifer from offshore outcrops), it degrades fresh ground water in areas below and adjacent to the Slough.

Data for wells in the area show a possible correlation between the increasing salinity of the Slough after the abandonment of the levees and the water quality degradation of wells of this area:

- The chemical hydrograph from State Well No. 13S/02E-03Q01 (located approximately 1300 feet from the edge of the Slough and perforated from elevation -84 to -180), displays gradual increase in chloride ion concentration between the years of 1960 and 1983. In 1983, chloride ion concentration increased sharply from approximately 90 mg/l to 300 mg/l over a period of 2 years.

- A similar response is suggested in the record of State Well No. 13S/02E-10J01 (located approximately 700 feet from a finger of the Slough and perforated between elevations -68 and -524). The increase in this well is not as pronounced as well No. -03Q1 likely due to the greater range of perforation of this well resulting in the blending of water from multiple zones within the aquifer system.

- This localized infiltration of seawater is also apparent in the data from the Dolan Road Monitoring Well constructed as part of this study. This well was constructed on Dolan Road west of Russo Road and approximately 500 feet from a finger of the Slough. A grab sample of the Slough water collected at this location revealed the water to be have an electrical conductivity in excess of 40,000 micromhos/cm. The geophysical log from the well shows a zone of high electrical conductivity (low resistivity) within an interval logged as sand (typically high resistivity) at an elevation of 0 to approximately -10 feet. Underlying and separated from this zone by intervening clay strata are intervals of sediments containing fresh ground water to a final depth of 600 feet. Additionally, water quality data from the shallow well (perforations elev. -60 to -110) at this location reveals the water to be fresh, while showing elevated chloride ions. These data are all consistent with the localized infiltration of seawater from the Slough.

The mechanism for movement of the seawater from the Slough into the aquifer system is not direct. The Slough depositional environment is one of low-energy, resulting in the deposition of thick sequences of clay and silt, and locally significant deposits of peat. These materials have low permeability and slow the vertical migration of the water from the Slough into the underlying aquifer system. However, given the downward vertical gradient resulting from below sea level water levels within the underlying aquifer units and the large surface area of the Slough, the resulting flux through the materials underlying the Slough is increasingly significant. Additionally, the Slough environment is incised into a sequence of eolin and fluvial sediments. At the perimeter of the Slough, the mechanism for movement of seawater from the Slough is enhanced because the low permeability sediments are not as thick and horizontal permeability is high.

The thickness of the low permeability materials underlying the Slough has been documented to be as great as 600 feet in the center of the ancestral valley. Shallow borings in proximate areas document varying thickness of clay and low permeable materials. Schwartz (1986) documents approximately 30 to 60 feet of interbedded clay, silt, and clayey-sand in CALTRANS borings drilled parallel to the Highway 1 Bridge over the Slough. At other locations, well logs immediately adjacent to the Slough and tributary fingers show sequences of low permeability materials ranging from 10 to 70 feet thick. Although some thickness of clay is documented in most of the borings and well logs, few of the borings document the sequence as being entirely clay. Most document some interbeds of sand, gravel or sandy clay.

For purposes of considering the significance of leakage from the Slough on the area's water balance and ground water quality degradation, an estimate of the amount of leakage from the Slough that would occur under Darcian flow was calculated utilizing the available water level data, lithology, and stratigraphic data. Average water levels underlying the Slough area were estimated (from the water level contour maps) to be approximately -10 to -30 feet MSL. Because the actual thickness and equivalent hydraulic conductivity of the materials underlying the Slough display significant variation and are not precisely known, a range of values for these variables were utilized. The calculations are provided in Appendix H. A summary of the results of the analysis are presented in Table 6 - Darcian Flux Through Elkhorn Slough Bottom.

## Table 6. Darcian Flux through Elkhorn Slough Bottom

| Head Difference (feet) | Hydraulic Conductivity (cm/sec) | Hydraulic Conductivity (feet/year) | FLUX (in feet per year) Thickness of Low Permeability Materials | | | |
|---|---|---|---|---|---|---|
| | | | 10 feet | 20 feet | 50 feet | 100 feet |
| 10.00 | 0.000001 | 1.03 | 1.03 | 0.52 | 0.34 | 0.1 |
| 10.00 | 0.000005 | 5.2 | 5.15 | 2.6 | 1.7 | 5 |
| 10.00 | 0.00001 | 10.3 | 10.3 | 5.2 | 3.4 | 1.0 |
| 20.00 | 0.000001 | 1.03 | 2.06 | 1.03 | 0.41 | 0.21 |
| 20.00 | 0.000005 | 5.2 | 10.3 | 5.15 | 2.05 | 1.05 |
| 20.00 | 0.00001 | 10.3 | 20.6 | 10.3 | 4.1 | 2.1 |

Review of Table 6 reveals that, depending on the assumptions, the flux of water through the Slough bottom into the aquifer system ranges from 0.1 to 20 feet per year. The most reasonable estimate is considered to be a median value of 3.4 feet/year for conditions of 10 feet of head difference, 50 feet of low permeability materials having an average hydraulic conductivity of 0.00001 centimeters per second. This flux rate compares with the areal recharge rate for the study area of approximately 0.15 feet, suggesting that leakage from the Slough is a significant component of the overall water balance of the area. The Slough has an area of approximately 2,500 acres. Excluding the central portion of the Slough which has been demonstrated to be underlain by a great thickness of clay materials, the fingers and areas flanking the central Slough cover approximately 1,000 to 2,000 acres depending on tides and season. Considering this area, saltwater leakage (recharge) from the Slough may be on the order of 2,000 to 4,000 acre-feet/year.

**Elevated Nitrate Ion Concentrations.** Nitrate ion contamination occurs commonly in unconfined and semi-confined aquifers that underlie areas of intense agricultural activity, where excess applied fertilizer can migrate to the ground water body by leaching from the soil or deep percolation from surface water bodies fed by agricultural runoff. Elevated nitrate ion levels also exist near septic systems, which contain high nitrogen concentrations in their leachate. Residences that obtain their water supplies from shallow domestic wells often also use septic systems, increasing their risk factor for nitrate ion contamination of their drinking water supply.

Nitrate ion contamination is a public health concern because children born to mothers who consume drinking water with excessive nitrate concentrations during pregnancy have an increased risk of contracting infant methemoglobinemia (blue baby syndrome). A state and federal maximum contaminant level (MCL) of 45 mg/l has been established for nitrate ion concentration as $NO_3$. Nitrate ion concentrations in excess of the MCL have been observed in Agency Study Wells in a large portion of the Springfield subarea, as well as locally in small water system data in the Pajaro, Highlands and

Granite Ridge subareas. The available historical nitrate data were sorted by subarea and are contained in Appendix E - Water Quality Data. The data are summarized in Table 7 - Summary of North County Nitrate Ion Data.

**Table 7. Summary of North County Nitrate Ion Data**

| Subarea | No. Of Wells Sampled | No. Of Wells w/ NO3 > 45 mg/l | Highest NO3 Value (mg/l) | Date of High Value |
|---|---|---|---|---|
| Granite Ridge | 11 | 2 | 90.8 | 9/1/83 |
| Highlands | 33 | 11 | 155.1 | 7/1/85 |
| Pajaro | 25 | 3 | 196 | 10/4/93 |
| Springfield | 58 | 28 | 399.5 | 7/1/87 |

***Granite Ridge Subarea.*** Two of the 11 wells with water quality history are currently violating the state and federal standard for nitrate. Nitrate ion concentrations at well 12S/03E-31E01 located in San Miguel Canyon has been observed at concentrations ranging from <10 mg/l to 65 mg/l. At well 13S/03E-08D01 along Echo Valley Road, the nitrate ion concentration has typically ranged from 50 to 90 mg/l, although the most recent measurement was 15 mg/l, well below the MCL. Nitrate concentrations for the other sample wells in the Granite Ridge subarea typically range from <10 to 20 mg/l. Historically, significant numbers of wells have been abandoned in this subarea due to nitrate contamination.

***Highlands Subareas.*** The occurrence of elevated nitrate ions in this subarea is variable, likely the result of varying land use and sampling results from wells perforated in shallow, perched water tables. A third of the Agency study wells in the area have exceeded the MCL for nitrate ion, while other third of wells in the area display low concentrations (less than 10 mg/l). Levels as high as 155.1 mg/l have been reported (State Well No. 12S/02E-25N01).

***Pajaro Subarea.*** One of the sample wells in the Pajaro Valley along San Miguel Canyon Road (12S/03E-18E04) has nitrate levels that have increased from near zero in 1981 to near 200 mg/l in 1993. Three other sample wells showed evidence of excessive nitrate levels elsewhere in the Pajaro subarea. The low number of wells with elevated nitrate ion concentrations likely reflects the confined nature of the majority of the Pajaro subarea.

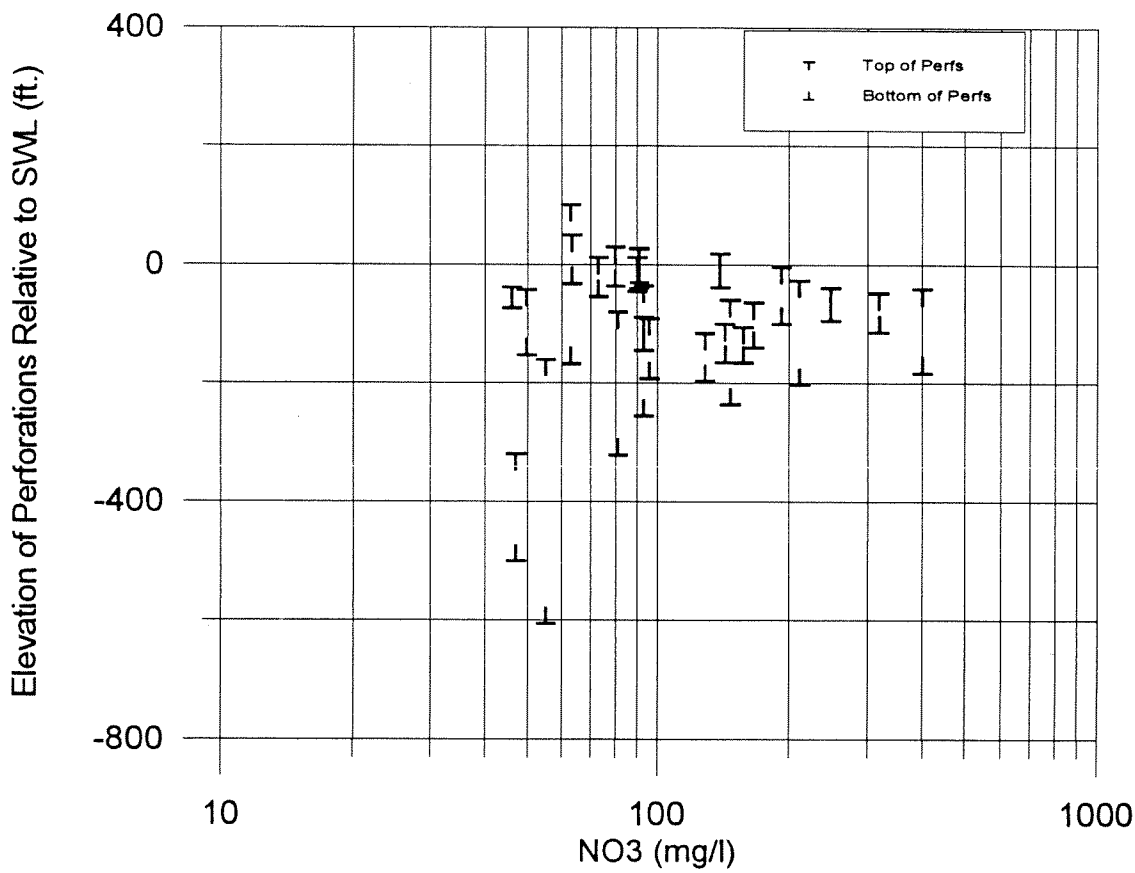
***Springfield Subarea.*** High nitrate ion concentrations in the Springfield subarea occur in the area west of Highway 1 bounded by Bluff Road to the north and Bennett Slough to the south. Contamination appears chronic in most wells, sporadic in a few others. The nitrate concentration has exceeded 150 mg/l in several wells and 300 mg/l in one well (12S/02E-30N1). There is limited evidence from a single Springfield area well (12S/02E-32C1) for a correlation between short-term peaks in the nitrate concentration and significant recharge events. Conceptually, an increase in deep percolation can leach accumulated nitrogen compounds from the soil column into the saturated zone.

This phenomenon is also suggested in the comparison of the chemical and water level hydrographs from some of the other wells in the study area.

***Relationship Between Nitrate Ion Concentration and Well Depth.*** Nitrate ion contributions to the ground water system result primarily from either septic systems or agricultural practices. In either case, the source of nitrogen is essentially surface derived. The inference of surface derived application of nitrogen compounds is that nitrate ion concentrations should decrease, due to mixing and dilution, with increasing depth below ground water table. Indeed, the construction of deeper wells has, in most cases, been an effective interim method to obtain potable water in areas with elevated nitrate ion concentrations.

The relationship of nitrate ion concentration which exceed the MCL to depth below ground water table was evaluated. All wells for which water quality data, water level, wellhead elevation, and well construction data were available were reviewed. A plot of depth of perforations below static water level verses nitrate ion concentration was prepared. Figure 18, Nitrate Ion Concentrations vs. Depth of Perforation below Static Water Level, shows a correlation between depth below water table and nitrate ion concentration.

**Figure 18 - Nitrate Ion Concentrations Vs. Depth Of Perforation Below Static Water Level**



Review of Figure 18 reveals that, with a few exceptions (possibly due to well construction), wells that display elevated nitrate ion concentrations have the uppermost perforations less than 125 feet below the water table. The implication for design of potable water supply wells is obvious; where possible, wells should be designed with the upper most perforations a minimum of 125 feet below the static water level.

***Areal Distribution of Nitrate Ions.*** Given the vertical distribution of nitrate ion concentration, it is difficult to delineate areas of elevated nitrate ion based on existing well data. The comparison between wells of varying depth and differing perforated intervals is misleading. For this reason, nitrate ion concentration was not mapped. A predicted distribution of nitrate ion loading associated with current and future development in the various subareas utilizing the GIS model in conjunction with the existing ground water models is presented below with the build-out scenarios.

**Other Water Quality Issues - Solid Waste Disposal Sites (Landfills).** The study area contains two licensed waste disposal sites; Lewis Road Disposal Site, operated by the County of Monterey, and Crazy Horse Canyon Waste Disposal Site operated by City of Salinas. Records from these disposal sites were reviewed to assess the possible impact on the ground water resources of the study area.

Lewis Road site is within the Highlands subarea and is underlain by Aromas Sand. Ground water immediately underlying the site occurs within a perched aquifer system of limited extent. The site has been thoroughly investigated and routinely monitored. To date, no impacts to the regional ground water system have been documented (Woodward-Clyde, 1994).

The Crazy Horse Landfill is within the Granite Ridge subarea. This site has documented water quality impacts consisting of concentrations of volatile organic compounds elevated above drinking water standards. A remedial action program is being implemented under jurisdiction of the Regional Water Quality Control Board. To date, the contamination is localized, and given the low permeability hydrogeologic setting, is not considered a regional impact.

## WATER BUDGET

The water budget analysis includes the assessment of all components of the hydro-geologic system: extractions, recharge, and subsurface flow. An analysis of demand within the study area was performed utilizing both the GIS and existing ground water models. Recharge, seawater intrusion, storage depletion and subsurface flow were evaluated by linking the two existing versions of the Integrated Ground and Surface Water Model (IGSM) ground water models of the study area (Pajaro Valley and Salinas Valley). Modeling work was performed by Montgomery Watson (MW) and is documented in a Technical Memorandum presented in

Appendix F - Technical Memoranda. The GIS was utilized to construct a demand model that was used to estimate current and future water demand under varying future development scenarios.

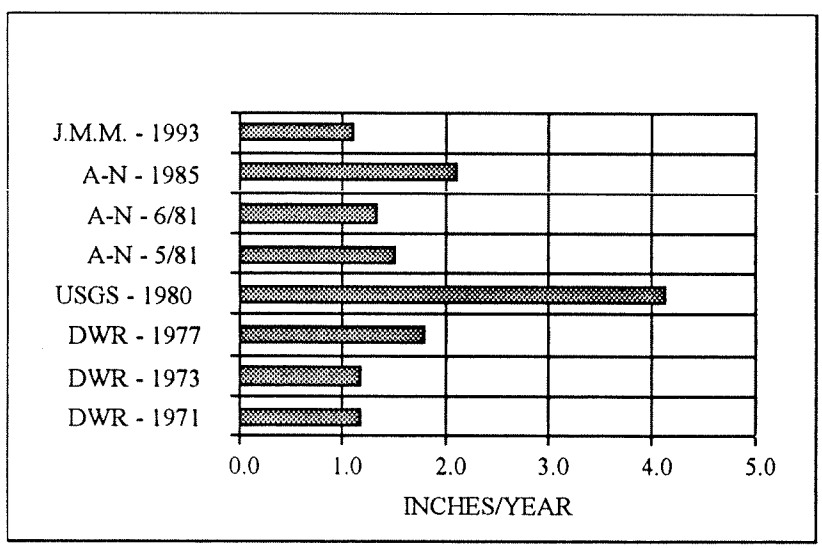
## Water Budgets - Previous Studies

The study area, in whole and in part, has been the focus of several previous studies. Each of these studies has presented estimates of the various components of the water budget. For purposes of comparison, these previous estimates are reviewed below.

## Supply

**Areal Recharge Rate.** With the exception of the extreme northern portion of the study area (Pajaro Valley and Aromas) which receives recharge from the Pajaro River, the bulk of the area receives recharge solely from the infiltration of precipitation falling in the study area. The volume of ground water recharge in the area has been estimated in several previous studies. Each of these studies utilized a similar approach to estimating the volume of areal recharge. The volume of precipitation received in the study area was reduced by the volume of water believed to be leaving the area either as runoff or evapotranspiration. Estimation of the volume of precipitation that ultimately becomes ground water recharge is dependent on assumptions regarding soil and climatic conditions. Soil properties control the amount of runoff and the volume of water stored in the subsurface soil matrix (root zone). Climatic conditions control the amount of water lost to evaporation and plant transpiration. Minor differences in the assumptions can significantly affect the estimated volume of recharge. The estimates of recharge by the various investigators are presented in Chart 1 - Average Annual Areal Recharge Rate - North County Area, below:

**Chart 1 - Average Annual Areal Recharge Rate - North County Area**



The chart reveals the estimated average annual areal recharge rate ranged from 1.2 to 4.15 inches. Of interest, with one exception, all estimates cluster between 1.2 and 2.1 inches. The outlying value of 4.15 inches was the value suggested by the USGS. Review of the USGS methodology reveals an assumption that accounts for the significant variation between their estimate and other investigators. The USGS incorrectly assumed that ground water recharge occurs when monthly precipitation (corrected for runoff) exceeds monthly evaporation. This approach results in significant recharge in the winter months. However, this approach neglects the volume of water that is retained in the soil matrix (under capillary tension) which is later extracted by vegetation during subsequent months with deficit precipitation relative to evaporation. Even in sandy soils, such as those that dominate the study area, the volume of water held in the root zone can be as much as 3 inches. This water that is held in soil storage supports growth in native and non-irrigated crops through the spring and early summer. The oversight of soil storage by the USGS was identified and corrected for in the subsequent study by A-N. The studies performed by DWR do not explicitly document the assumptions utilized in developing their respective estimates. However, based on the suggested values and these organizations understanding of on-farm water relationships, it is assumed that soil storage was accounted for in the DWR analysis. Soil-moisture relationships are integrated into the IGSM model developed by MW.

***Recharge Volume.*** The infiltration of precipitation is the only significant source of recharge to all of the subareas with the exception of the Pajaro subarea which receives the majority of its recharge from the Pajaro River. Calculation of an annual volume of recharge to the area is simply a volumetric calculation of the product of the recharge rate and the area. Table 8 presents a summary of generalized estimates of the volume of recharge for the current study area and revised subareas of the study area utilizing the previous published rates of recharge.

**Table 8. Comparison of Estimates of Recharge Volumes (AF/Y)**

| Subarea | Acres | Recharge Rate (inches/year) | | | | |
|---|---|---|---|---|---|---|
| | | DWR 1977 | DWR 1971 | USGS 1980 | A-N 5/81 | JMM 1993 |
| | | 1.8 | 1.3 | 4.15 | 2 | 1.6 |
| N. County | 53,000 | 7,950 | 5,742 | 18,329 | 8,833 | 7,067 |
| Pajaro* | 6,903 | 1,035 | 748 | 2,387 | 1,150 | 920 |
| Highlands North | 11,221 | 1,683 | 1,215 | 3,880 | 1,870 | 1,496 |
| Highlands South | 16,915 | 2,537 | 1,832 | 5,849 | 2,819 | 2,255 |
| Granite Ridge | 9,787 | 1,468 | 1,060 | 3,385 | 1,631 | 1,305 |
| Springfield | 8,180 | 1,227 | 886 | 2,829 | 1,363 | 1,090 |

* Pajaro estimate is areal recharge only, does not include river recharge

***Pumpage.*** The previous studies have estimated ground water extractions for purposes of comparison with recharge. Extractions for agricultural irrigation were estimated from land use and crop water duty. Population data was used to estimate residential demand. These extraction estimates from the two most comprehensive studies are presented and compared with recharge estimates in Table 9 - Summary of Annual Water Budget Estimates from Previous Studies.

**Table 9. Summary of Annual Water Budget Estimates from Previous Studies**

| Study, Date (Study Area) | Area (Acre) | Recharge (Acre-Feet) | Agricultural Extractions (Acre-Feet) | M & I Extractions (Acre-Feet) | Overdraft (Acre-Feet) | Overdraft/Acre (Acre-Feet/Acre) |
|---|---|---|---|---|---|---|
| DWR, 1977 (Study Area) | 53,700 | 8,055 | 21,200 | 1,800 | 15,000 | 0.28 |
| USGS, 1983 (Study Area) | 59,300 | 20,508 | 32,800 | 3,500 | 15,500 | 0.26 |

***Overdraft.*** Comparison of the recharge and extraction estimates of previous studies show significant variation in estimated values of both extraction and recharge; however, both studies reveal ground water extractions to significantly exceed recharge and the magnitude of the deficit is comparable. Notable differences in the two studies show the USGS estimate of recharge to be substantially higher; however, the estimates of extractions are also accordingly higher. The resulting overdraft on an area-wide basis is comparable.

The overdraft conditions documented result in the depletion of ground water storage, and in areas adjacent to seawater bodies, seawater intrusion. In the study area, the chronic overdraft has resulted in both of these conditions.

***Seawater Intrusion.*** The previous studies documented the occurrence and advancement of seawater intrusion in the study area. The previous studies, however, did not quantify the volume of seawater intrusion. The intrusion of seawater into the aquifer system has masked the magnitude of storage depletion as ground water in storage has been replaced by seawater.

## Water Budget - Ground Water Modeling

Since the completion of the previous studies, advances in computer technology have allowed the development of computer models of hydrologic systems that can simulate multiple sources of recharge, the interaction between surface and ground water, and the extraction and use of ground water. The development of these tools allow the quantitative assessment of the various components of the water budget for an area. The water budget of the study area was evaluated through the combined use of the Pajaro and Salinas Valley ground water basin models developed by Montgomery Watson as part of previous studies. Both ground water models utilize the IGSM code developed by Dr. Young Yoon. Through the use of a linkage routine, the two models, which join in the center of the study area, were used to run simultaneous simulations to quantify

the various components of the water budget for the simulation period of 1970 through 1992. After calibration, the models were used to develop water budgets for the newly adopted subareas.

The mathematical basis, development, assumptions, underlying database, and calibration of the two models are documented in previous reports (JMM 1993, MW 1994). The work associated with this project included the refinement of the models to reflect additional hydrogeologic data, the refinement of input data sets, and the recalibration of the models to the available water level data. After recalibration, the existing model elements were aggregated to best approximate the new subareas and parallel simulations were performed to develop water budgets and sustainable yields for each of the subareas. The work performed is documented in a Technical Memorandum prepared by Montgomery Watson presented in Appendix F.

The prior existence of the ground water models provided for the use of powerful tools which could not have been cost-effectively developed for the specific project. Use of the models for this study also provided additional utility of the models to the agencies. However, use of the pre-existing models results in the need for some approximation to appropriately apply the models to the study area and some interpretation of the results to the specific study area. The existing models are comprised of rectangular to triangular shaped polygons (elements) which cover discrete portions of the modeled area. The arrangement of these polygons is a primary input to the models and cannot be changed without complete revision of the model. Additionally, the existing models cover the area between hydrogeologic boundaries and do not respect political and hydrologic boundaries. The North County Study area is defined by both county lines, rivers and drainage divides. This situation required that the existing models be made to fit the project area.

The approximation required to fit the models to the project is most apparent in the approximation of modeled subareas with the formally adopted revised subareas. The subareas developed as part of this study were delineated on the basis of hydrogeologic data. The established subarea boundaries were overlain with the ground water model grids and the model elements were grouped to best approximate the new subareas. The modeled subareas generally are within several percent of the adopted subareas with the exception of the Granite Ridge subarea which is approximately 20 percent larger. This was the best approximation possible in this area because the model grid is coarse and many of the elements in this area include portions of San Benito County. The overall modeled area is approximately 3 percent larger than the study area.

Another required approximation included the consideration of important boundary flows from areas that are in hydrogeologic continuity with the study area but not included in the study area. This is most important in the Pajaro model as the major source of recharge to the northern portion of the model is the Pajaro River which is a boundary of the study area. This required the estimation of streamflow recharge and subsurface flow into the study area which, because of the model configuration, might be occurring outside of the study area.

The IGSM ground water model requires as input, precipitation, climatic, land use, hydrogeology and streamflow data. The sources of these data and the model assumptions and methodologies are summarized in the model documentation for each of the models. From these data, the model estimates areal recharge, gross and net pumpage, seawater intrusion, stream recharge, storage depletion, and boundary inflows and outflows. The results of the simulations are presented by subarea in Table 10 - Simulation Results - Calibration Conditions - 1970-1992.

**Table 10. Simulation Results - Calibration Conditions - 1970-1992**

| | Inflow (AF/Y) | | | | Outflow (AF/Y) | |
|---|---|---|---|---|---|---|
| **Model Subarea** | **Deep[4] Percolation** | **Recharge from Rain** | **Recharge from Streams** | **Recharge from Boundary[1]** | **Pumping** | **Change in Storage (AF/Y)** |
| Highlands South | 4,260 | 2,034 | 0 | -110[5] | 5,020 | -870 |
| Granite Ridge | 1,720 | 1,371 | -230 | -2,230 | 610 | -1,350 |
| Highlands North | 2,670 | 1,722 | +210 | -320 | 4,780 | -2,220 |
| Pajaro | 2,260 | 541 | — | +6,070[2] | 9,030 | -700 |
| Springfield | 2,670 | 1,132 | -160 | +4,070[3] | 6,670 | -90 |
| Totals: | 13,580 | 6,800 | -180 | +7,480 | 26,110 | -5,230 |

1 Positive number indicates ground water flow into the subarea.

2 Includes Pajaro River recharge of 4,254 AF/Y.

3 Includes seawater intrusion of 750 AF/Y and Elkhorn Slough leakage of 2,570 AF/Y.

4 Includes agricultural return and recharge from precipitation.

5 Includes 1,090 AF/Y of Elkhorn Slough leakage.

The modeling results are generally consistent with the interpretations of previous studies. The overall results for the study area show chronic storage depletion for the entire area and each subarea. Total fresh water recharge to the study area from all sources is estimated at 17,740 AF/Y (includes agricultural returns). Total gross pumpage is estimated at approximately 26,110 AF/Y. Overall storage depletion for the storage area is estimated at 5,230 AF/Y. However, an additional 3,320 AF/Y of storage depletion is offset by the combined inflow of seawater from the ocean and the Slough, bringing overall annual storage depletion to approximately 8,550 AF/Y.

Comparison of the model calculated inflows and outflows for each of the subareas reveal the interdependency of the subareas and the lack of any significant hydrogeologic boundaries. The model confirms and quantifies the occurrence of subsurface flows between various subareas. Generally, ground water flows from the Granite Ridge subarea into the adjoining subareas of Highlands North, Highlands South, and the Eastside area. The model also confirms the flow from the Highlands South subarea into the Pressure area of the Salinas Valley. In the Pajaro subarea, tributary subsurface flow derives from areas north of the Pajaro River. The net result of the inflows and outflows between areas are incorporated in the storage depletion estimates for each subarea.

Recharge in the study area is limited to the infiltration of rainfall, streamflow, and applied water. In the undeveloped areas, the annual infiltration of rainfall is estimated at between 0.9 and 1.8 inches and results in an average value of approximately 6,800 AF/Y. These values are consistent with the previous suggested values discussed above. In the developed areas, recharge is also derived from applied agricultural water and septic return flows and is estimated as an additional 6,780 AF/Y. This estimated return flow is a function of land use and will change if land uses are converted to uses with differing consumptive uses. With the exception of the Pajaro subarea, stream recharge is not a significant component of recharge to any of the subareas. In the Pajaro subarea, infiltration from the Pajaro River is the major component of recharge and is estimated at 4,254 AF/Y.

**Sustainable Yield.** Utilizing the model results, MW developed estimates of the sustainable yield of the study area and various subareas were developed. Sustainable yield is defined as the amount of annual pumping not causing additional ground water declines from 1992 conditions and/or not causing additional seawater intrusion. These estimates are presented in Table 11 - Sustainable Yield.

**Table 11. Sustainable Yield**

| Subarea | Historical Pumping (AF/Y) | Sustainable Yield (AF/Y) | Difference (AF/Y) | Percent Reduction |
|---|---|---|---|---|
| Highlands South | 5,020 | 4,390 | -630 | 13 |
| Granite Ridge | 610 | 610 | 0 | 0 |
| Highlands North | 4,780 | 2,920 | -1,860 | 39 |
| Pajaro | 9,030 | 6,490 | -2,540 | 28 |
| Springfield | 6,670 | 0 | -6,670 | 100 |
| Totals: | 26,110 | 14,410 | -11,700 | 45 |

The estimates above show that to achieve sustainable yield, significant reductions in pumping will need to occur in all of the subareas with the exception of the Granite Ridge subarea. The required reductions range from no reduction in the Granite Ridge subarea to complete cessation of agricultural pumpage in the Springfield subarea. The cessation of agricultural extractions in Springfield is required because, although recharge does occur, water levels needs to rise above sea level in order to avoid further seawater intrusion. It is assumed that minor pumpage for domestic supply will continue. The complete cessation in agricultural pumpage in Springfield is consistent with the recommendations of the Pajaro Valley Water Management Agency Basin Management Plan (MW, 1993). No expansion of pumpage can occur in the Granite Ridge subarea, as it is estimated to be at sustainable yield.

The estimates of sustainable yield developed by MW contain several assumptions. The sustainable yield values are gross pumpage and include assumptions regarding return flows from various land uses. For this reason, the sustainable yield estimates assume that current land use remains approximately static and that reductions in extractions occur in proportion to the current land use. Changes in land use will affect return flows and may change the sustainable yield for a subarea. Additionally, MW estimates assume the maintenance of existing inflows and outflows between various subareas. The magnitude of these flows is a function of regional ground water gradients. Changes in water use in various subareas or hydraulically adjacent areas not within the study area (Salinas Valley or north of Pajaro River) could change the magnitude of the subsurface flow between subareas.

Because the estimates of sustainable yield presented above contain many assumptions, it is useful to evaluate the components of natural fresh water recharge within the study area. This methodology results in the calculation of a "water crop" for the area that is not dependent on return flows from various land uses. This water crop can then be compared to estimates of net pumpage (consumptive use) for any land use. Utilizing this methodology and the values from the model for recharge resulting from percolation of rainfall and river infiltration, total annual average recharge to the area is 11,050 acre-feet.

**Ground Water Storage**

The volume of ground water in storage within an area controls the area's ability to tolerate periods of drought and/or extractions in excess of the annual recharge rate. Areas with a large volume of ground water in storage can maintain extraction rates that exceed annual average recharge rates for multiple years without significant impacts. However, areas with limited storage will experience water supply shortages relatively rapidly. Additionally, the volume of ground water in storage represents the volume of water available for dilution of contaminants. Again, areas with large volume of ground water in storage have a greater dilution factor compared to areas with less storage

The total ground water in storage is the volume of water existing within void space of the water-bearing materials. The amount of this void space which holds retrievable water, commonly know as specific yield, is estimated to range from 20 percent by volume for the eolian sands of the Aromas Formation to less than 5 percent for the fractured granite (Freeze and Cherry, 1979). Utilizing the GIS to calculate the volume of materials between bedrock surface and current water levels and these specific yield values, the total ground water in storage was estimated for each of the subareas and is shown in Table 12 - Ground Water in Storage.

Table 12. Ground Water in Storage

| Subarea | Acreage | Average Saturated Thickness (feet) | Volume of Saturated Materials ($Ft^3$) | Specific Yield (percent) | Storage (acre-feet) | Useable* Storage (acre-feet) |
|---|---|---|---|---|---|---|
| Highlands North | 11,205 | 407 | 4,561,235 | 20 | 912,247 | 13,169 |
| Highlands South | 17,050 | 474 | 8,073,570 | 20 | 1,614,714 | 35,460 |
| Granite Ridge | 9,366 | 35 | 326,140 | 5 | 16,307 | 8,091 |
| Springfield | 8,078 | 598 | 4,833,905 | 20 | 966,781 | 0 |
| Pajaro | 6,972 | 504 | 3,514,045 | 20 | 702,809 | 580 |

*Storage above sea level.

The volume of ground water in storage presented in Table 12 is all the ground water contained in the sediments. This volume can be misleading since the majority of this water is located below sea level. Alternatively, useable ground water in storage is defined as the volume of ground water above sea level. This definition is useful in a coastal basin. When water levels decline below sea level, depleted ground water storage is replaced with sea water. By this definition, the Springfield and Pajaro subareas have little useable storage capacity, while some useable storage remains in the Highlands subareas. The definition of useable storage above does not, due to its elevated topography, apply to the Granite Ridge area.

The reduction of useable storage capacity in these areas is the result of chronic overdraft for the last 40 years. As the result of chronic overdraft, storage in the study area has been steadily declining. This declining storage is manifest as declining water levels throughout the area. The cumulative effects of storage depletion are illustrated on Figure 14, which shows the easterly migration of the zero elevation ground water contour over the last 25 years. Water level data analyses discussed above suggest an average water level decline of approximately 0.5 feet per year.

## WATER DEMAND

### General Statement

An estimate of water demand for the study area was developed by MW as part of the IGSM modeling of the study area. The IGSM calculates water demand from data inputs of land use and climatic information. From these data, an estimate of pumpage was derived for modeling purposes. While the use of IGSM can accurately estimate water demand, the use of a GIS water demand model would be more efficient and flexible in evaluating changes in water demand in

response to land use changes. To facilitate easier analysis of water demand, a GIS water demand model was developed for the North County area. The demand model was applied to both current land use and future land use ("build-out"). Remarkably, the GIS and IGSM, while approaching demand with very different methodologies and input, developed results within ten percent of one another. This correlation provided the confidence for developing future demand estimates in the GIS. The methodologies and results of the GIS study are discussed in this section with supporting material contained in various appendices.

## Methodology

The amount of water required within the area is a function of the types of land uses in the area. Estimates of water use (water duty factors) have been developed for agriculture, residential, and other land uses. If the acreage of a crop is known, the water use per acre can be applied and a reasonable estimate developed. The same holds for residential and other land uses.

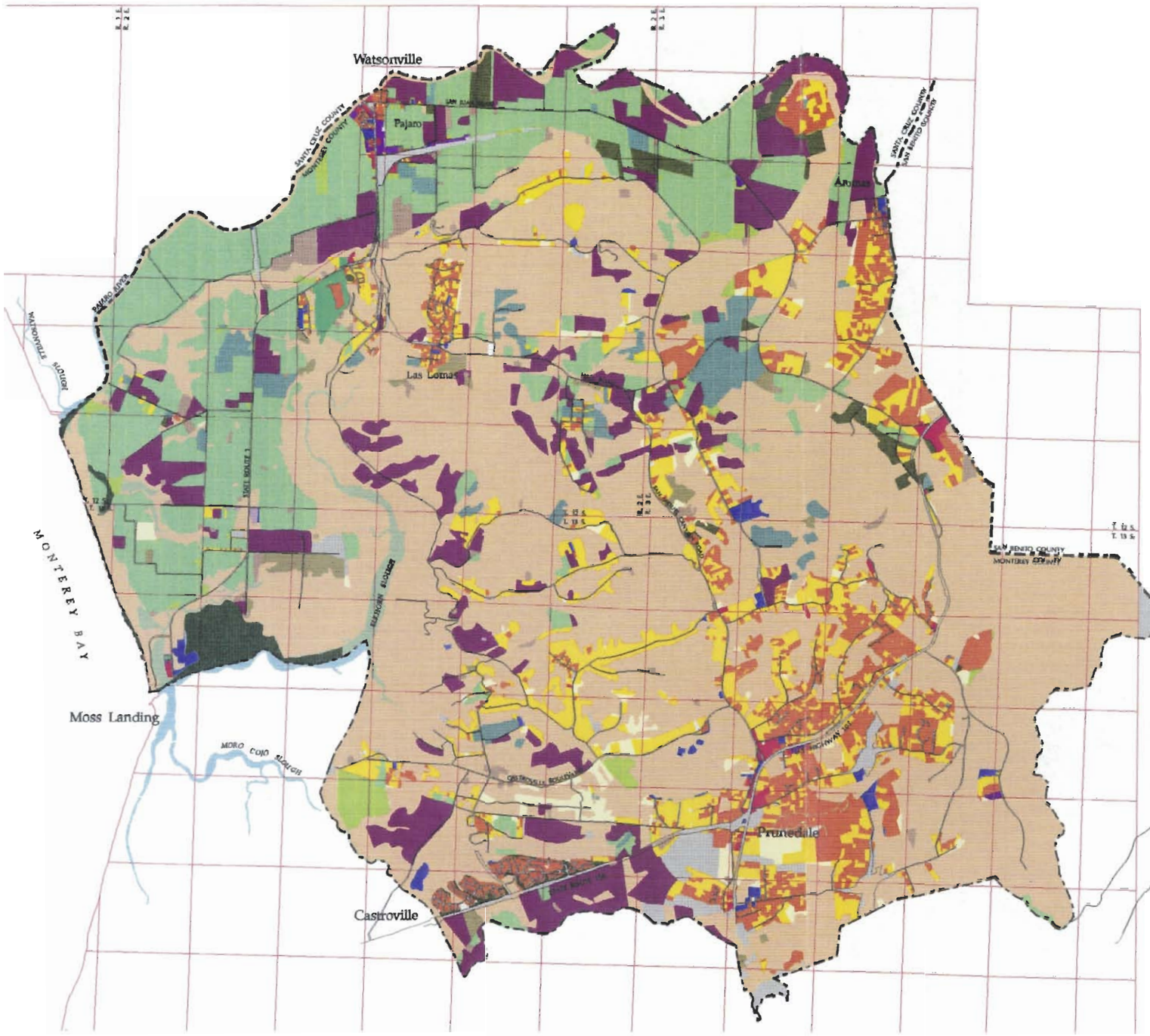
Each individual parcel of land was incorporated into the GIS computer database. Information regarding these parcels was included in the GIS: size, land use, zoning, and ownership. Each type of land use was assigned a water duty factor, which is a volume in acre-feet per year estimated to be consumed by the typical activities in that land use. Each parcel in the inventory was then multiplied by the corresponding water duty factor, resulting in the total estimated demand for water under current conditions. Each of these concepts is discussed more fully below.

## Characterization of Land Use

With certain exceptions, the land use of North County can be characterized by row crop agriculture and suburban and rural residential development. The area contains the more urbanized Prunedale, which has higher residential density and a commercial component because of its proximity to US 101. Land use for the North County area is shown on Figure 19.

**Hydrogeologic Subareas**. The subareas are those described previously in this report and adopted by the TAC. Refer to Figure 10 for their location.

***Pajaro.*** The Pajaro subarea includes the communities of Aromas and Pajaro. The majority of the area is utilized for agriculture, primarily vegetable and strawberry crops. Industrial land uses associated with produce preparation and shipping occur along the Southern Pacific Railroad alignment in Pajaro. While the Pajaro Valley may see additional minor residential growth, it will not experience a considerable net increase in water demand. Most of the arable land in the valley is currently under cultivation. Conversion to residential, unless of a very high density, would likely lower water demand.




# Figure 19

## NORTH COUNTY LAND USE

- Urban Residential
- Suburban Residential
- Rural Residential
- Commercial/Office
- Industrial
- Truck Crops
- Berries
- Field Crops
- Flowers/Mushrooms
- Fruits/Nuts
- Pasture
- Vineyard
- Grazing
- Other Agriculture
- Recreation Open Space
- Conservation Open Space
- Public Facilities
- Utilities/Common Areas
- Uncoded

MILES

0 1.25 2.5

Sources: Monterey County, Bureau of Rec.
North Monterey County Hydrogeologic Study

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MONTEREY COUNTY CALIFORNIA 1850

***Highlands North and South.*** The Highlands North subarea includes the community of Las Lomas. The major current land uses of this subarea are rural residential, native vegetation, and irrigated agriculture. The Highlands South subarea contains the Oak Hills development northeast of Castroville, the Elkhorn Slough Estuarine Sanctuary, and several rural residential subdivisions. The amount of irrigated agricultural land in both subareas has increased in recent years as more native vegetation is cleared for agricultural production, primarily the cultivation of strawberries. Most of the residential development has occurred since the mid-1950s.

***Granite Ridge.*** The Granite Ridge subarea is an area of varying topography and supports a variety of land uses. This area includes the community of Prunedale. The majority of land in this subarea is designated for residential land uses and resource conservation. The subarea contains a relatively small amount of irrigated cropland; the majority of agricultural land is utilized for grazing and livestock. The low-density residential land use designation limits the minimum parcel sizes in this sub-area to 1 to 2.5-acre minimum. The Resource Conservation designation limits one unit on each parcel, with minimum parcel sizes of 10 to 160 acres. However, numerous small lots exist in the Resource Conservation area. The Prunedale area is currently subject to a B-8 restriction (no further subdivision of parcels).

***Springfield Terrace.*** Land use in this subarea is mostly agricultural with the primary crops being truck crops such as vegetables and strawberries. Other agricultural land uses include vineyards and pasture land. Residential land uses consist of farmsteads, with a few rural subdivisions.

The following table shows the acreage of land uses in the five subareas:

**Table 13. North County Land Use by Subarea (Acres)**

| Land Use | Pajaro | Highlands North | Highlands South | Granite Ridge | Springfield Terrace | TOTALS |
|---|---|---|---|---|---|---|
| Urban Residential | 183 | 746 | 1,414 | 789 | 57 | 3,189 |
| Suburban Res. | 69 | 1,109 | 2,142 | 767 | 126 | 4,213 |
| Rural Res. | 1 | 196 | 514 | 74 | 35 | 820 |
| Commercial | 28 | 21 | 85 | 44 | 12 | 190 |
| Industrial | 52 | 0 | 5 | 8 | 0 | 65 |
| Truck Crops | 3,702 | 523 | 240 | 51 | 2,810 | 7,326 |
| Berries | 1,316 | 761 | 1,516 | 71 | 543 | 4,207 |
| Field Crops | 114 | 58 | 224 | 13 | 77 | 486 |
| Flowers/Mush. | 101 | 527 | 106 | 124 | 187 | 1045 |
| Fruits/Nuts | 297 | 138 | 6 | 20 | 7 | 468 |

| Land Use | Pajaro | Highlands North | Highlands South | Granite Ridge | Springfield Terrace | TOTALS |
|---|---|---|---|---|---|---|
| Pasture | 0 | 127 | 41 | 9 | 155 | 332 |
| Vineyards | 0 | 0 | 2 | 0 | 13 | 15 |
| Grazing/Native | 729 | 6,766 | 9,602 | 7,046 | 3,204 | 27,347 |
| Other Ag. | 206 | 69 | 102 | 40 | 114 | 531 |
| Rec. Open Space | 0 | 0 | 0 | 0 | 115 | 115 |
| Cons. Open Space | 0 | 2 | 58 | 2 | 457 | 519 |
| Public Facilities | 26 | 18 | 125 | 66 | 49 | 284 |
| Utilities/Common | 3 | 12 | 37 | 6 | 1 | 59 |
| Uncoded | 144 | 131 | 849 | 238 | 113 | 1475 |
| **TOTALS** | 6,971 | 11,204 | 17,068 | 9,368 | 8,075 | **52,686** |

**Water Duty Factors**. Water demand for agriculture was estimated by multiplying acreage of each land use in a subarea by a water duty factor. Residential use was calculated by multiplying dwelling units by a water duty factor. A water duty factor is an estimated volume of water used annually by a particular activity. It is measured in acre feet per year. Water duties are necessarily estimated averages. Water consumption varies in a number of regards. Over the course of the year, water use is high in the summer and low in the winter. For dwellings, use will vary from residence to residence, depending on number of persons in the dwelling and the intensity of outdoor landscaping.

Water duty factors for residential and commercial uses utilized were derived from water company records and studies of areas of similar climate. Agriculture water demand was estimated utilizing water duty factors which were verified from MW's agricultural water use model. The water duty factors derived from this model are considered superior to the average values commonly used because the model considers stage of growth and age of various crops. An important component of water use is return flow. This is the amount of water that returns to the ground water basin, either through septic systems or after use in irrigation. Different return flows were used in different areas depending on soils and type of water use.

## Existing Demand

Existing demand discussed in this section is based upon the GIS model. The numbers generated are approximately ten percent higher than the IGSM. Some differences exist in the base data, the GIS utilizing information as recent as 1993. The GIS also does not account for agricultural areas that are not under production such as roads and staging areas. Because the GIS model was designed to be used for demand management, it tended toward the conservative. This is appropriate in water resource planning. Nevertheless, the ten percent difference is not material

in this area given the fact that demand is currently more than 80% in excess of sustainable yield and will go much higher.

**Residential.** Currently, there are approximately 9,300[4] homes in the North County area. Most of these, over 6,000, are located in the Highlands North and South. Less than 1,500 homes are in the heavily cultivated areas of Pajaro and Springfield Terrace. Granite Ridge has over 1,400 homes. Most of the homes are on relatively large parcels (greater than 1 acre). This is a key component of the water demand. Larger parcels usually involve greater water using activities (gardens, pastures, etc.) and the water duty factors have been developed accordingly. Total residential demand is estimated to be 3,461 AF/Y.

**Agriculture**. Agriculture, at 85% of total demand (19,695 AF/Y), is the largest component of water used in the North County. Seventy percent of North County agricultural demand is in the Pajaro and Springfield Terrace subareas (7,979 and 5,370 AF/Y, respectively). The Granite Ridge subarea has strawberry fields in its northern lobe, but otherwise accounts for less than 400 AF/Y. The North and South Highlands subareas use approximately 3,000 AF/Y each for agriculture, most of which is in strawberries.

**Table 14. Existing Water Demand (Net)**

| Summary - Current Demand (AF/Y) | | | | |
|---|---|---|---|---|
| **Subarea** | **Agriculture** | **Residential** | **Other** | **Total** |
| Pajaro | 7,979 | 303 | 32 | 8,315 |
| Highlands North | 3,190 | 818 | 9 | 4,016 |
| Highlands South | 2,700 | 1,547 | 36 | 4,283 |
| Springfield Terrace | 5,370 | 226 | 111 | 5,707 |
| Granite Ridge | 456 | 567 | 21 | 1,044 |
| Totals: | **19,695** | **3,461** | **209** | **23,365** |

## Future Demand

**Residential.** Future residential water demand can be determined with reasonable accuracy by performing a build-out analysis. This analysis estimates the amount of additional development that could eventually take place in an area under current zoning regulations. Zoning

[4] Several data sources, but principally planning and assessor's, were used to establish the existing number of dwellings. A full discussion of this issue is contained in Appendix G.

is shown on Figure 20. This future development is added to the existing development. The total anticipated demand is called build-out.

**Agriculture**. The more difficult prediction is how much additional agricultural water demand will be created. The subareas of Pajaro and Springfield Terrace are nearly fully developed in terms of agriculture acreage and are not likely to experience an increase in water demand. Springfield Terrace will, however, require an alternative water supply as salinity levels increase and local supplies continue to degrade. Granite Ridge is generally not suitable or zoned for cultivation, therefore, little additional agricultural demand is anticipated. Also, little additional residential demand is anticipated. Highland North and South have the highest potential for additional agricultural water demand, due mostly to continued conversion of native land to irrigated acreage. Current zoning allows for conversion of native land to agricultural production. This represents a significant potential increase in water demand. The amount of the increase is a function of agricultural market forces and is difficult to predict.

**Build-Out Analysis**

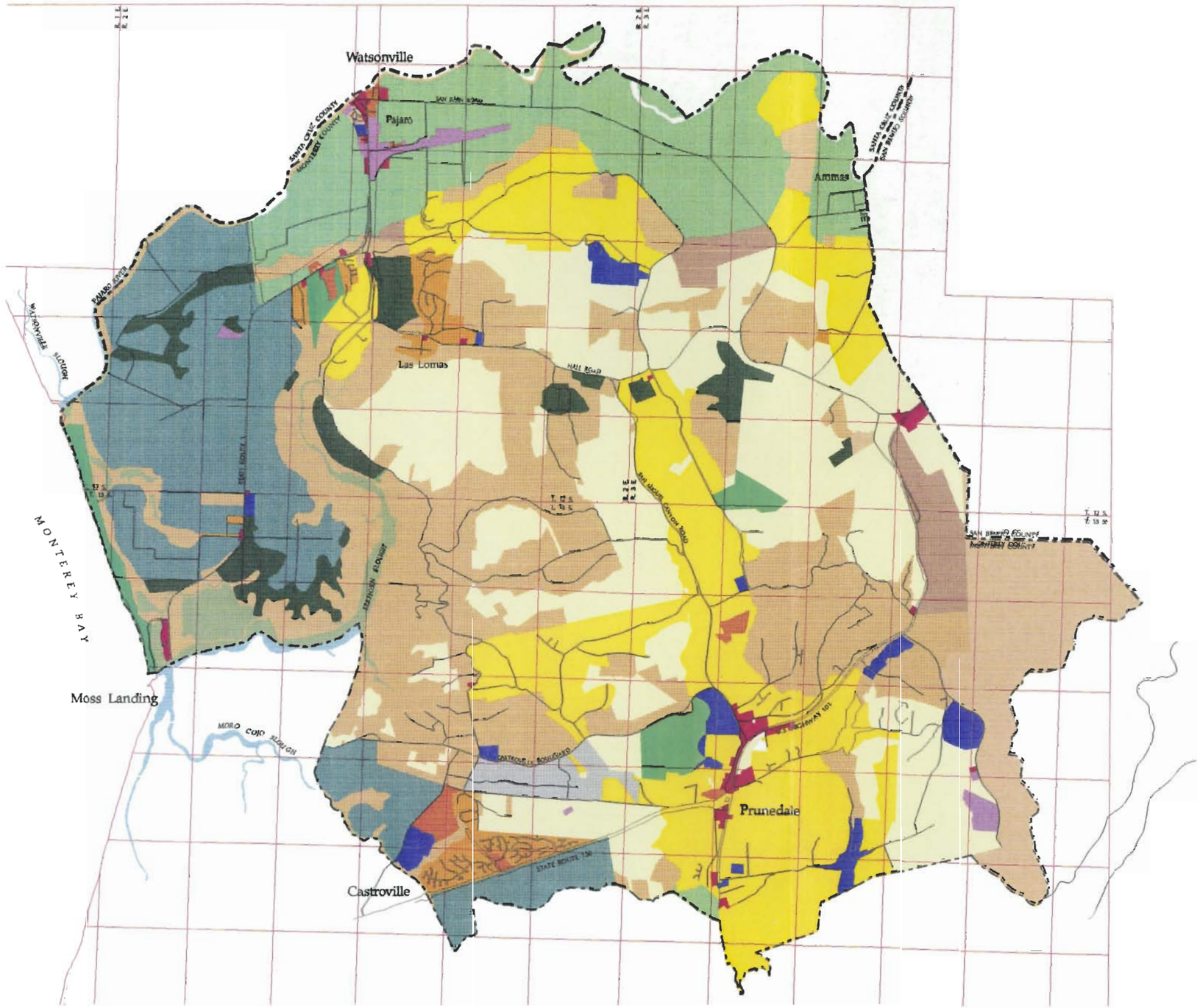
**Methodology**. There are many methods for analyzing build-out. They range from "broad brush" approaches (e.g. gross land area divided by zoning density) to more precise methods (e.g. examining every parcel). For the North County study, the more precise, GIS parcel-based approach was taken. Rather than analyze build-out by the whole acreage of the land use categories, each parcel was analyzed for its development potential. The dwelling units on parcels that were already developed were tallied. Parcels that were undeveloped or partially developed (meaning they could legally support additional development) were examined. The number of potential, additional dwelling units was calculated for each parcel based upon its current zoning. This processis described in greater detail in Appendix G.

**Assumptions.** There are many variables used in a build-out analysis and they can change over time. For this study, the build-out analysis assumes that parcel size, current use, zoning regulation, and development constraints will remain unchanged and that study area parcels will be developed to their fullest structural potential pursuant to these criteria.

All land currently devoted to intensive agricultural activities (row crops, orchards, but not grazing or dry farming) is assumed to remain in those types of uses except for those lands that would be converted to residential/commercial use pursuant to zoning regulations and development potential.

# Figure 20

## NORTH COUNTY ZONING




- High Density Residential
- Medium Density Residential
- Low Density Residential
- Rural Density Residential
- Commercial
- Industrial
- Outdoor Recreation
- Farmland
- Rural Grazing
- Permanent Grazing
- Coastal Ag Preserve
- Ag Conservation
- Resource Conservation
- Public/Quasi-Public
- Uncoded

MILES

0 1.25 2.5

Source: Monterey County
North Monterey County Hydrogeologic Study

FUGRO

MONTEREY COUNTY CALIFORNIA

**Residential.** Table 15 - Build-Out Analysis of Dwelling Units (DU), compares the build-out scenario and current land use. The full tables for the build-out analysis are contained in Appendix G. Under current zoning, without agriculture conversion, it is estimated that an additional 2,200 houses could be built in the North County study area.

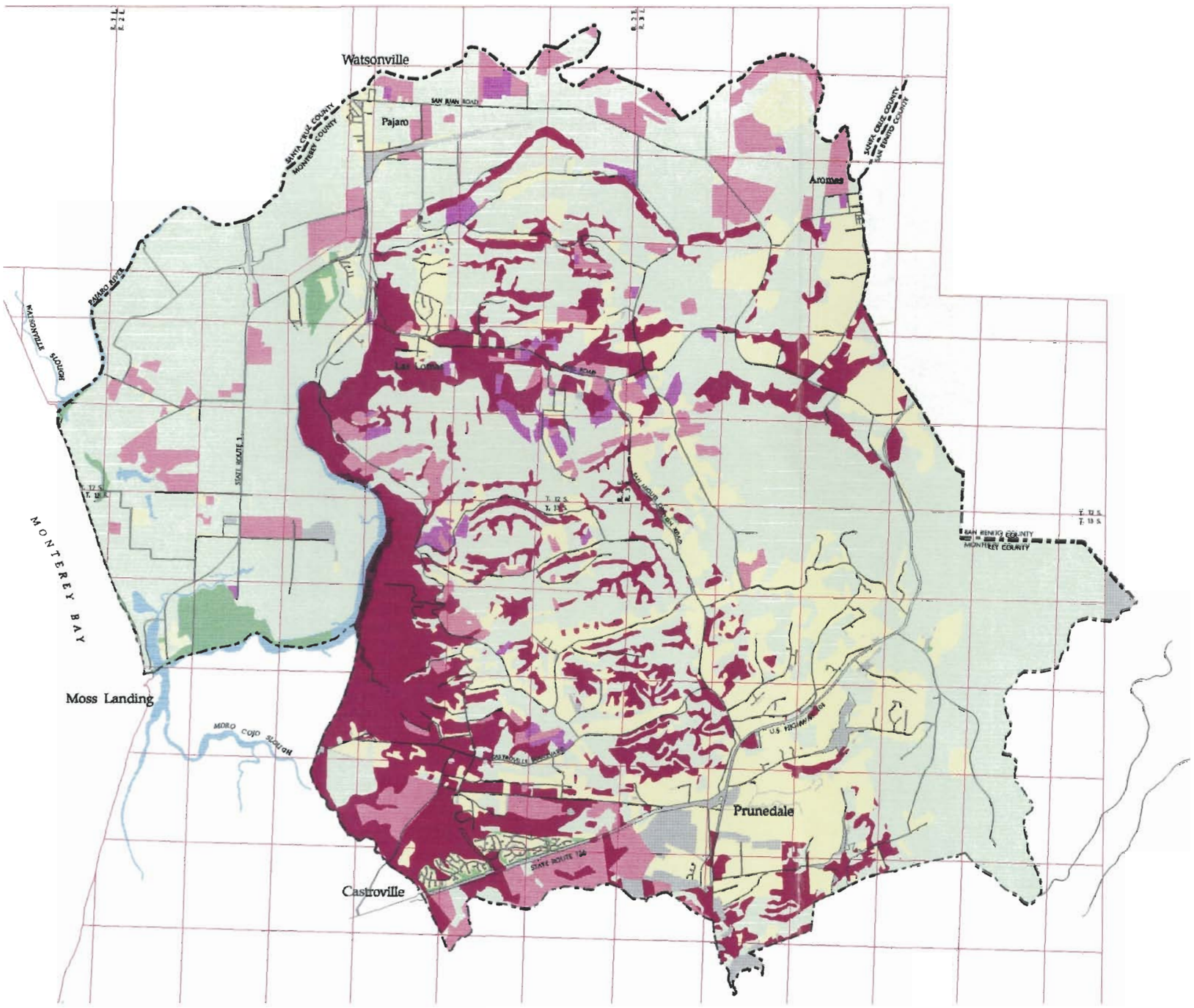
**Table 15. Build-Out Analysis of Dwelling Units (DU)**

| | Pajaro | Highlands North | Highlands South | Springfield Terrace | Granite Ridge | TOTAL |
|---|---|---|---|---|---|---|
| Existing[a] | 881 | 2,126 | 4,243 | 621 | 1,447 | **9,319** |
| Potential[b] | 112 | 661 | 937 | 114 | 376 | **2,200** |
| Build-out | 993 | 2,787 | 5,180 | 735 | 1,824 | **11,519** |

[a] Based on assessor's records and Planning Department data[1994]
[b] Based on current zoning (See Appendix G).

**Agriculture**. In order to develop a "build-out" for agriculture, it was necessary to develop a model on the GIS to analyze land suitable for cultivation. It was assumed that Pajaro and Springfield Terrace were cultivated to a level that will probably not be exceeded. Granite Ridge, except for the extreme northern portion, is not suitable for cultivation due to poor soils and lack of readily available water. The only areas assumed to be appropriate for significant additional cultivation are the Highlands North and South. The GIS model only analyzed these areas. The assumptions in the model were that areas likely for cultivation would be parcels larger than three acres, on slopes less than 30% and designated as open or grazing in the land use map. The model predicted that 2,566 additional acres could be cultivated for strawberries in Highlands North, and 5,217 acres in Highlands South. Nearly 8,000 acres of land could be cultivated, most likely as strawberries under current market trends (Figure 21).

**Build-out Water Demand**. The following table shows the estimate of demand for water that would occur at build-out for all land uses. The table combines land uses into agriculture, residential and other, for simplicity. The full build-out demand tables are contained in Appendix G.




# Figure 21

## STRAWBERRY CULTIVATION POTENTIAL

- Potential Strawberry Area
- Existing Strawberries
- Existing Bushberries
- Other Agriculture
- Urbanized
- Designated Open Space
- Uncoded

ASSUMPTIONS:
1. Parcels less than 30% slope
2. Parcels larger than 3 acres
3. Designated open or grazing on land use map

MILES

0 1.25 2.5

Sources: Monterey County, Bureau of Rec.
*North Monterey County Hydrogeologic Study*

**Table 16. Build-Out Water Demand**

| Summary - Build-Out Demand (AF/Y) | | | | |
|---|---|---|---|---|
| **Subarea** | **Agriculture** | **Residential** | **Other** | **Total** |
| Pajaro | 7,979 | 415 | 32 | 8,427 |
| Highlands North | 5,756 | 1,479 | 9 | 7,243 |
| Highlands South | 7,917 | 2,484 | 36 | 10,437 |
| Springfield Terrace | 5,370 | 340 | 111 | 5,821 |
| Granite Ridge | 456 | 943 | 21 | 1,420 |
| Totals: | **27,478** | **5,661** | **209** | **33,348** |

## Comparison of Supply and Demand

The estimates of supply and demand were compared to estimate the extent of current overdraft and estimated increase in overdraft at build-out. As discussed above, current water demand was calculated by both the GIS and the IGSM. In order to maintain consistency between various methods of analysis, the MW pumpage estimates were used as current demand allowing for integration of return flows from this demand in the calculation of the various components of supply and overdraft. The GIS was used to verify the MW pumpage estimates of current demand and to calculate the gross and net demand estimate for build-out. The net build-out demand was then compared to the natural recharge estimate derived from the model.

Current water demand in the study area is over 200 percent of supply. The overdraft for the study area is currently estimated at approximately 12,000 AF/Y compared to a supply of approximately 10,900 AF/Y. At build-out, overdraft is estimated to increase to as much as 22,200 AF/Y, with demand reaching approximately 300 percent of supply. The overall comparison of supply and demand is presented in Table 17.

## Table 17. Summary of Annual Water Budget Estimates

| Study, Date | Area (Acre) | Recharge (Acre-Feet) | Net Agricultural Extractions (Acre-Feet) | Net M & I Extractions (Acre-Feet) | Overdraft (Acre-Feet) | Overdraft/Acre (Acre-Feet/Acre) |
|---|---|---|---|---|---|---|
| DWR, 1977 | 53,700 | 8,055 | 21,200 | 1,800 | 15,000 | 0.28 |
| USGS, 1983 | 59,300 | 20,508 | 32,800 | 3,500 | 15,500 | 0.26 |
| Current Demand (GIS) | 53,000 | 10,939 | 19,695 | 3,461 | 12,217 | 0.23 |
| **Build-out (GIS Model)** | **53,000** | **10,939** | **27,478** | **5,661** | **22,200** | **0.41** |

Although the overall results are similar, the estimates of supply and demand developed as part of this study differ from previous studies. These differences derive from the methodologies used. This study developed an estimate of supply that is higher than the value suggested by DWR and less than the value suggested by the USGS. The estimate of supply developed as part of this study is considered an improved value because it was developed utilizing the numerical ground water models allowing the integration of many hydrologic factors. This has resulted in the consideration of many spacial and temporal factors that were not considered in previous efforts. In particular the use of the numerical models allowed consideration of the variability of climatic factors that effect recharge and return flow. Variations in estimates in water demand are the result of changes in land use with continuing build-out since the time of the previous studies and the application of a more rigorous parcel-based analysis.

Although the entire study area is in overdraft, the magnitude of the imbalance varies from subarea to subarea. Comparison of the overdraft between subareas is, however, misleading. The subareas are hydrologically interdependent and comparison of supply between subareas is artificial. A portion of the supply for each of the subareas is derived from subsurface flow from adjacent subareas, the magnitude of the supply being a function of the gradient which is the result of pumping patterns within both the upgradient and downgradient subareas. Attempting to attribute subsurface flows to subarea of origin is complex and illustrates the interdependence of the subareas. For example, the sustainable yield for the Springfield Terrace subarea has been estimated at zero pumpage. This condition is the result of the storage depletion in this subarea which has resulted in seawater intrusion because of the subarea's proximity to the ocean. The storage depletion in this subarea is not the entirely the result of local pumpage. Storage depletion and falling water levels in the adjacent Highlands and Pajaro subareas has resulted in a reduction of the historical volume of

subsurface flow into Springfield Terrace, compounding the effects of local pumpage. This interdependence between areas occurs throughout the study area. In addition, the study area is directly affected by water supply conditions within the adjacent Salinas and Pajaro Valleys which, although they are outside of the study area boundary are hydrogeologically connected.

Although comparison of a supply and demand water balance for a given subarea is misleading, the overall imbalance in the study area has created water supply problems that are manifest in each subarea differently. Because of its proximity to the ocean the Springfield Terrace is impacted by seawater intrusion, the result of storage depletion within the entire study area. The Granite Ridge area is impacted by localized falling water levels and storage depletion resulting from storage depletion in the adjacent Highlands and Salinas Valley which has increased the volume of subsurface flow from this subarea. The Highlands subareas are impacted by falling water levels resulting from both local pumpage and pumpage in the adjacent Salinas and Pajaro Valleys.

**Nitrate Loading**

**General.** As discussed earlier, the occurrence of high nitrate ion levels in ground water can be both an indicator of general water quality degradation and a health hazard in itself. High nitrate ion intake interferes with the bloods ability to adsorb oxygen molecules. It is especially dangerous to the elderly and infants. Nitrogen released into the ground water system from septic systems and from fertilizers oxidizes into nitrate ion. Both sources of nitrogen are present in the North County and high levels of nitrate ions have been documented.

**Nitrogen Loading Assessment.** Nitrogen loading assessment was performed by modifying the GIS water demand model. Land use and acreage data within the GIS were used with nitrogen loading rates to develop current and build-out loading for the study area and subareas.

Nitrogen loading rates utilized were developed by MW from previous studies and through calibration of the Pajaro Valley Ground Water Basin Model and were adjusted as necessary to consider soil and crop type and nutrient management practices. The loading rate is the mass of nitrogen per unit area estimated to pass below the root zone. The rate is specific for a particular land use and is typically estimated as an yearly average and expressed in pounds. The following table shows the loading rates used for this study. The rates shown are the amounts of nitrogen added to ground water after applied water percolates to the saturated zone.

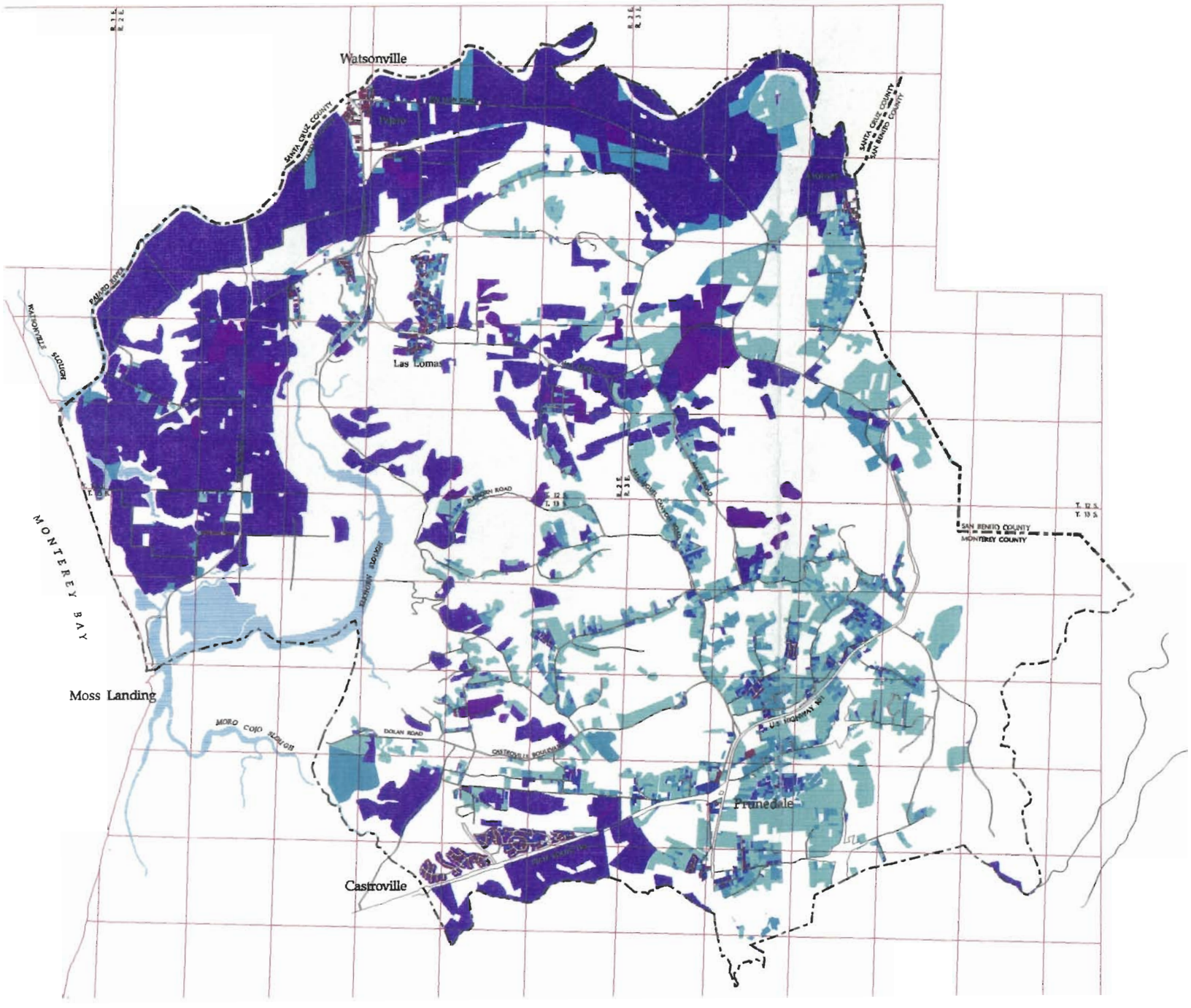
## Table 18. Total Annual Nitrate Loading

| North County | Current | Loading Rates | Current | Potential | | Build-Out |
|---|---|---|---|---|---|---|
| | DU/Acres | Pounds | Nitrate Load | DU/Acres | Nitrate Load | Nitrate Load |
| Urban Residential (<1 ac/du) | 4,631 du | 31.0 | 143,561 | 624 du | 19,344 | 162,905 |
| Suburban Residential (1-10 ac/du) | 4,295 du | 31.0 | 133,145 | 1,370 du | 42,470 | 175,615 |
| Rural Residential (>10 ac/du) | 392 du | 41.0 | 16,072 | 206 du | 8,446 | 24,518 |
| Commercial/Office | 190 | 0.0 | 0 | | | 0 |
| Industrial | 65 | 0.0 | 0 | | | 0 |
| Truck Crops | 7,327 | 69.0 | 505,563 | | | 505,563 |
| Berries | 4,207 | 67.0 | 281,869 | 7,783 | 521,461 | 803,330 |
| Field Crops | 486 | 38.0 | 18,468 | | | 18,468 |
| Flowers/Nursery/Mushrooms | 1,045 | 83.0 | 86,735 | | | 86,735 |
| Fruits/Nuts | 468 | 21.0 | 9,828 | | | 9,828 |
| Pasture | 332 | 0.0 | 0 | | | 0 |
| Vineyard | 14 | 21.0 | 294 | | | 294 |
| Grazing/Open | 27,347 | 0.0 | 0 | | | 0 |
| Other Agriculture | 531 | 0.0 | 0 | | | 0 |
| Recreation Open Space | 115 | 0.0 | 0 | | | 0 |
| Conservation Open Space | 519 | 0.0 | 0 | | | 0 |
| Public Facilities | 284 | 0.0 | 0 | | | 0 |
| Utilities/Common | 58 | 0.0 | 0 | | | 0 |
| TOTALS | -- | -- | **1,195,535** | -- | **591,721** | **1,787,256** |

**Approach**. Using the GIS, every parcel of land in the North County was assigned a loading. Table 18 - Total Annual Nitrate Loading, shows the intensity of loading averaged per acre under current development and cultivation conditions. The most striking difference between current loading and future will be areas anticipated to have additional strawberry cultivation. There was no attempt to estimate the current or future concentrations of nitrate ions in the ground water with the GIS. Estimation of nitrate ion concentration of percolating water is extremely difficult because it is dependent on localized land use, climatic conditions, nutrient management practices, irrigation efficiency, and localized hydrostratigraphy. Additionally, calibration of such estimates are essentially impossible due to localized variations in ground water flow and storage conditions. Calibration to existing wells is also not possible because, as discussed in the previous ground water quality section of this report, nitrate ion concentration at any given location is highly sensitive to well perforation depths, which vary greatly. The analysis also likely overstates nitrogen loading in some areas because some applied nitrogen is discharged to agricultural drainage systems and then to surface water bodies. In addition, the semiconfined nature of the Pajaro subarea likely restricts percolation. This is reflected in the absence of high nitrate concentrations in this subarea. The purpose of the nitrogen loading analysis was, therefore, to identify areas with high loading rates. It should be anticipated that these areas will have water quality problems in shallow wells.

## Nitrate Balance - Current and Build-Out

Nitrate is chemically conservative; therefore, loading is cumulative. Each year additional nitrogen is applied and a portion of that is leached to the ground water. Build-out nitrate loading, in some areas, could be as high as 200 percent current loading due to increased strawberry production. Figure 22 - North County Nitrate Loading, shows relative concentrations of nitrate loading to the North County ground water. While the rate of increased nitrogen loading can be slowed, continued loading at today's rate will continue to significantly degrade water quality. The upper perched water aquifers and the populations that have historically relied on them, are currently the most affected with a high percentage of shallow wells already exceeding the state and federal nitrate limits. In the interim, the abandonment of contaminated wells and the installation of deeper wells is currently a successful method to obtain potable water. Given the current and future nitrate loadings, the larger regional aquifers are projected to eventually become contaminated. In that event, water treatment for potable water supplies will be needed. This latter eventuality, as with the case with supply augmentation, is made very difficult by a variety of constraints including: the lack of an area-wide water distribution system, limited finances available to affected users, legal constraints, and disposal of treatment unit wastewater.




# Figure 22

## NORTH COUNTY NITRATE LOADING

**Current Conditions**

- 0 lbs/acre/year
- > 0 and < = 20 lbs/acre/year
- > 20 and < = 40 lbs/acre/year
- > 40 and < = 60 lbs/acre/year
- > 60 and < = 80 lbs/acre/year
- > 80 and < = 100 lbs/acre/year
- > 100 lbs/acre/year

MILES

0 1.25 2.5

Sources: Monterey County, Bureau of Rec.
Montgomery Watson
*North Monterey County Hydrogeologic Study*

**Page Following Foldout**

# CONCLUSIONS

## 1.0 GENERAL STATEMENT

The North County study area has extremely varied and complex hydrogeology. The area has significant water supply and water quality problems including falling water levels, seawater intrusion and nitrate ion contamination. North County problems not only affect residents and agriculture in the area, they also affect water supply and quality conditions in the adjacent and hydraulically connected Salinas and Pajaro Valleys. Previous reports have documented the study area to have been in a state of chronic overdraft since the 1950's. This finding is confirmed by this report. Based on the analysis of available data, the study area is believed to be severely overdrafted, with annual ground water extractions exceeding average annual recharge by more than 100 percent.[5] At build-out, under existing land use plans, water demand could increase to 300 percent of sustainable yield or more. Under current demand conditions the ratio of agricultural/non-agricultural demand is approximately 85 to 15 percent. At build-out, this ratio is expected to remain similiar (82 to 17), although most of the future potential water demand will be from additional agriculture.

The chronic overdraft of the has area resulted in falling water levels and the degradation of ground water by seawater. Excessive nitrogen loading has rendered ground water nonpotable in many areas. Supplemental water supplies for the area have been recommended since the 1950's. However, the delivery of water to the area has always been judged to be too expensive. At the present time, with the possible exception of PVWMA proposed water importation project and Salinas River Basin Management Project (BMP) water, imported supply is likely not available. If imported water would become available, delivery of this water would be difficult. Because of the number and dispersed nature of the agricultural users and small water systems, delivery of imported water would require construction of an expensive distribution system to deliver the water. Without a supplemental supply and distribution system, water supply problems in the area will need to addressed by demand management.

## 2.0 HYDROGEOLOGY

### 2.1 Hydrogeologic Setting

The hydrogeology of the study area is quite varied and complex. The area is bounded to the north and south by the alluvial basins of the Salinas and Pajaro Rivers. Between these alluvial basins, the area is comprised of a complex system of sediments aggregated under the designation of the Aromas Sands which overlie older Tertiary rocks and onlap to the east onto exposed

[5] Compare this with an 8% overdraft in the Salinas Valley, an area with 50 times the sustainable yield of North County.

granitic basement. Available data suggest that the delineation of three primary aquifer systems; the alluvial deposits associated with the river systems, the sediments which comprise the Aromas Sand, and the weathered and fractured granite. These aquifer systems are not distinct and grade and interfinger into each other. To date, the available data from the underlying Tertiary deposits including the Purisima Formation have not been demonstrated to be viable aquifers in the study area. Considering that the source of recharge to the Purisima Formation in the study area is leakage from the overlying Aromas Sand or alluvial deposits, water supply development from this aquifer, should it prove feasible, cannot be considered an additional source.

## 2.2 Hydrogeologic Subareas

As a result of the study area's size and complexity, several previous studies have divided the area into smaller regions or subareas. The basis for these subareas has included geographic, political, hydrologic and hydrogeologic factors. The previous subarea schemes were evaluated and found to be inadequate for purpose of managing ground water resources in the area. Four new subareas were developed based primarily on hydrogeologic factors including: the nature of occurrence of ground water, availability of ground water, sources of recharge and water quality issues. One of the four subareas was further divided to reflect the jurisdictional boundary between the MCWRA and the PVWMA. The suggested subareas were presented to the project advisory committee and adopted in early May 1995. The subareas, while displaying distinctive differences, are hydraulically connected with each other and the adjacent Pajaro and Salinas Valley areas. Because of this connection between these areas, ground water conditions with the subareas and connected areas are interdependent. The subareas as adopted are:

**1) Pajaro Subarea**. This subarea includes the area within the alluvial basin of the Pajaro River south of the Santa Cruz County line and west of the San Benito County line. Although the Pajaro subarea is part of the overdrafted Pajaro Valley Ground Water Basin, ground water is readily available to all but the most coastal of pumpers within the Pajaro subarea. Coastal pumpers are restricted due to intruding seawater within the aquifer system.

**2) Springfield Terrace** This subarea encompasses the area of Springfield Terrace, the area north and west of Elkhorn Slough and south of the Pajaro subarea. The subarea is bounded by the Pacific Ocean to the west and as the result of below sea level water levels has significant seawater intrusion problems.

**3) and 4) Highlands, North and South** These two subareas are hydrogeologically similar and have been arbitrarily divided by the PVWMA boundary. The area encompasses the elevated area between the Pajaro and Salinas Valleys. The primary aquifer system in the area is the Aromas Sand. The area is bounded on the west by Springfield Terrace and the east by the portions of the study area dominated granitic hydrogeology. Ground water is readily available within this subarea, although the aggregate pumping is contributing to chronic storage depletion.

Storage depletion is resulting in falling water levels and seawater intrusion. The ground water within the area is tributary to the Pajaro Valley to north and the Salinas Valley to the south.

**5) Granite Ridge** The granite ridge area is the eastern portion of the study area where the ground water resources occur either within the weathered or fractured granite. The western boundary of the area is defined those area with less than 100 feet of saturated unconsolidated materials above regional bedrock surface. The boundary of the area roughly corresponds with the existing Prunedale B-8 area. Ground water availability in this subarea is variable reflecting the bedrock aquifer. Well yields are variable and generally low. Due to the limited amount of ground water in storage, the area is extremely sensitive to drought conditions.

## 2.3 Water Levels

Historical water level data shows a general trend of declining water levels throughout the study area. Area-wide water levels decline has averaged approximately 0.5 feet per year for the last 20 years. In general, ground water levels are below sea level in most of the study area west of the Granite Ridge subarea. Several significant pumping troughs exist in the area. One is in the Pajaro Valley, centered just south of the community of Pajaro. Another is centered in the Las Lomas area and displays seasonal water levels as low as 25 feet below sea level. Another is centered along the slough with water levels averaging approximately 20 feet below sea level. Another pumping trough is located in the Prunedale area (south of intersection of Highways. 101 and 156) and displays water levels averaging 40 feet below sea level. Comparison of the historical location of the "zero elevation" water level in the study area shows a steady easterly migration of this line as the area is progressively dewatered and water levels retreat toward the granite ridge area. This chronic storage depletion is resulting in the regional occurrence of falling water levels and localized seawater intrusion/infiltration.

## 2.4 Monitoring Wells

Two monitoring wells clusters were constructed as part of the study. The wells were constructed to provide additional hydrogeologic data and to supplement the Agency's study well network. Locations for well clusters were selected after review of the existing data and through discussions with Agency staff. Monitoring well clusters were constructed in the Dolan/Elkhorn Road and Las Lomas areas.

The Dolan/Elkhorn Road location was selected to provide additional water quality data relating to the nature of seawater degradation in this area and to provide additional hydrostratigraphic data. Data from this monitoring well cluster displayed elevated chloride ions only in the shallow portion of the aquifer system at this location. These and other data suggest that the source of seawater degradation in this area is the result of vertical leakage of saline water from Elkhorn Slough rather than horizontal movement of seawater from offshore outcrop of the

aquifer system. Lithologic data from this monitoring well cluster also confirmed the basis for the previous designation of a upper and lower Aromas Sand in this localized area. However, review of the lithologic data from the remaining portion of the study area suggests that this designation can only be supported in this portion of the study area.

The monitoring well cluster in the Las Lomas area was drilled to provide for an early warning of encroaching seawater intrusion into this area from Springfield Terrace area. This location was selected because pumping in the Las Lomas area has created a significant pumping trough with water levels seasonally below elevations of -25 feet MSL. The proximity (less than 1.5 mile) of a localized pumping trough of this magnitude to mapped seawater intrusion (greater 500 mg/l chloride ions) raises concerns regarding the long-term reliability of the water supply for this community. Data from the monitoring well revealed no evidence of seawater degradation in either the shallow or deep monitoring well.

The monitoring wells should be added to the Agency's network of dedicated monitoring wells. Water level data from these wells should be collected on a minimum of a bi-monthly basis and water quality data on a quarterly basis.

## 3.0 WATER QUALITY

Ground water quality in the study area is generally good to excellent. However, ground water quality is locally impacted by elevated concentrations of nitrate and chloride ions. Elevated nitrate ion concentrations are the result of both agriculture practices and domestic wastewater disposal in the study area. Elevated chloride ions are the result of the degradation of the ground water from sources of seawater.

### 3.1 Seawater Intrusion

Currently, there is evidence of the degradation of the ground water by seawater in the Springfield Terrace and Elkhorn areas of the study area. In the Springfield Terrace area seawater intrusion has advanced at least as far as Highway 1 (approximately 1 mile inland) and additional data suggest that intrusion may have advanced across the Highway. Available data strongly suggest that the elevated chloride ion occurs predominately within a discrete zone of the aquifer at an elevation of approximately -120 to -150 feet MSL. This occurrence of the chloride ion degradation at this discrete depth supports the mechanism of degradation as the horizontal movement of seawater from the coastal outcrop. The volume of seawater intrusion was quantified as part of the ground water modeling effort at an average annual value of approximately 750 AF/Y over the last 22 years.

Available data suggest that the elevated chloride ions in the ground water in the areas adjacent to the Elkhorn Slough are the result of vertical leakage from this water body. Water quality data from the Elkhorn Slough reveal Elkhorn Slough to contain water of similar chemical

character and concentration as seawater the majority of the year. Analysis of ground water quality data from this area suggests the occurrence of elevated chloride ion concentrations in the ground water at elevations just below sea level, suggesting a surface source. Additionally, records from several wells located immediately adjacent to Elkhorn Slough show a significant and sudden increase in chloride ion concentration after 1983 when Elkhorn Slough levees were abandoned.

Conceptual analysis of the hydraulics of Elkhorn Slough/ground water system suggest that under current conditions Elkhorn Slough is estimated to be leaking approximately 3,000 to 5,000 AF/Y of seawater into the ground water system. This analysis is consistent with the ground water modeling of the study area which quantifies the average recharge from Elkhorn Slough at approximately 3,660 AF/Y (2,570 AF/Y within model domain; 1,090 AF/Y as boundary inflow).

Comparison of the various components of seawater degradation of the ground water system in the study area reveals seawater intrusion (horizontal movement of seawater through an aquifer) to contribute approximately 20 percent of the total, the remaining portion being the result of vertical leakage from Elkhorn Slough.

The migration of seawater into the aquifer system, regardless of mechanism, requires pressures in the aquifer system to be less than sea level thereby creating a gradient favorable for movement into the aquifer system. If water levels were above sea level, both infiltration from Elkhorn Slough and intrusion from the subsea outcrops would diminish.

Given current land use and resulting water demands, mitigation for various seawater degradation mechanisms are limited. The mitigation of seawater intrusion in the Springfield area will require the cessation of the majority of pumping in this area. This would require land fallowing/retirement or the development and delivery of an alternative source of water. Service to the Springfield Terrace area is included in the PVWMA Basin Management Plan which will include the possible construction of a pipeline and the importation of water to the PVWMA area from outside the area. Short-term solutions in the Springfield area are limited to the construction of deeper wells and wells at more inland locations.

Mitigation of degradation resulting from leakage from Elkhorn Slough could also be achieved by restricting pumpage and allowing water levels to recover. Again, given existing land use and water demands, this is considered unlikely. As the current water quality conditions within Elkhorn Slough are the result of man-made alterations to this system, consideration could be given to the alteration of Elkhorn Slough operations that would prevent seawater from migrating as far inland within the Elkhorn Slough system. Currently, Elkhorn Slough water is typically the concentration of seawater as far inland as Los Carneros Creek and seawater fills the various fingers of the Elkhorn Slough system along Dolan and Russo Roads. Alterations to Elkhorn Slough hydrology could take the form of additional tide gates or other flow control measures.

The re-establishment of brackish to fresh water conditions within Elkhorn Slough and associated fingers would have significant beneficial impact on the ground water system. In the absence of modification of Elkhorn Slough operations, the quality of the shallow ground water near Elkhorn Slough will continue to degrade. Short-term mitigation measures in this area would included construction of wells with perforations below elevations of -100 feet MSL to assure adequate dilution of percolating water from Elkhorn Slough with native ground water. A management program for Elkhorn Slough should be integrated in the proposed Phase II scope of work for the North County Ground Water Management Plan.

## 3.2 Nitrate Ion Contamination

Ground water in the study area is locally impacted by elevated concentrations of nitrate ions. The occurrence of elevated values have impacted many small water systems requiring the construction of replacement wells to meet water quality standards.

Concentrations vary greatly with many wells displaying very low concentrations while other wells in the area have displayed concentrations as high as 399 mg/l (as $NO^3$)[6]. The variations between subareas is somewhat reflective of the hydrogeology and land use. Nitrate ions concentrations are generally higher in the Springfield and Highlands subareas. These areas have intensive agricultural activities and unconfined to semi-confined aquifer conditions.

Nitrate contamination in the study area is derived from either excess agricultural nutrients or septic systems. These surface-applied sources leach into the ground water system with excess irrigation water, percolating rainfall, and septic system return flow. These components of recharge eventually reach the water table mixing with the shallowest ground water. This mechanism results in a good correlation between the relationship between the nitrate ion concentration and the depth below the water table. Shallow wells consistently display higher concentrations of nitrates than do nearby wells that are deeper.

Analysis of the data from the study area reveals that, with minor exceptions, nitrate ions concentrations do not exceed drinking water standards in wells with perforations placed at least 125 feet below static water level. These data affirm the common practice and recommendation of constructing a deeper well to mitigate elevated nitrate ions concentrations. This analysis should assist with quantifying the recommended depth.

The demonstrated relationship between perforation depth and nitrate ion concentration makes the analysis and correlation of areal distribution of nitrate ion concentration data meaningless. Alternatively, this study has used the GIS to model nitrate loading rates to provide a tool that would delineate areas where problems will be worse and deeper wells will be necessitated.

[6] Drinking water standard for $NO_3$ is 45 mg/l.

## 4.0 WATER BUDGET

Water budget analysis for the study area was performed utilizing both a numerical ground water model and a GIS based demand model. The various components of the water budget for the study area for this report were estimated through the combined use of the Pajaro and Salinas Valley ground water basin models developed by Montgomery Watson. Through use of a linkage routine, the two models, which join in the center of the study area, were used to run simultaneous simulations to quantify the various components of the water budget for the simulation period of 1970 through 1992. After calibration, the models were used to develop water budgets for the study area.

Water demand in the area was estimated utilizing the ground water models and the GIS parcel-based demand model. Current water demand was estimated utilizing the ground water models and was verified with the GIS model (using different methodologies, the two approaches produced demand results within 10% of each other). Future demand was estimated utilizing the GIS model which allows for greater flexibility in analysis of alternative build-out scenarios.

### 4.1 Water Supply

The modeling effort resulted in an estimated sustainable yield of 14,480 AF/Y for the study area. This value represents the amount of water that can be pumped without causing additional ground water declines from 1992 conditions and/or not causing additional seawater intrusion.

Alternatively, total annual average fresh water recharge (does not include inflow from adjacent areas) from all sources to the study area was estimated 11,050 AF/Y. Of this value, the major components are approximately 6,800 AF/Y from infiltration of rainfall and an additional 4,250 AF/Y of recharge from the Pajaro River. The two estimates differ only in that the sustainable yield estimate reflects the consideration of recharge from the infiltration of pumped water, either as agricultural or septic system return flows.

## 4.2 Current and Future Water Demand

Agricultural activities account for approximately 85% of the water demand in North County. Low density residences use 14%. A small amount of commercial activities in the area accounts for the balance of water demand.

Future water use in the North County will see a similar percentage of agricultural water demand. Under current zoning, an estimated 2,200 more houses could be built in the North County, a 23% increase. The estimates for new agriculture are market driven and based upon recent trends. The subareas of Springfield Terrace, Pajaro and Granite ridge will not sustain much additional cultivation. The Highlands North and South will likely see considerable additional cultivation of strawberries. Nearly 8,000 acres of land have the potential for conversion to cultivation in the Highlands North and South. Volume II of this report examines several possible future scenarios for additional water demand, accounting for differing management options available to the County. Total net demand could increase to 33,348 AF/Y if current development and cultivation practices were left to continue.

## 4.3 Overdraft

Overdraft in the area is currently estimated at approximately 8,550 AF/Y. This includes an annual storage depletion of 5,230 AF and the additional loss of 4,410 (3,660 + 750) AF/Y of aquifer storage due to seawater inflow of various types. Current overdraft is over 200 percent of the estimated supply. This estimate of overdraft compares with previous estimates of approximately 15,000 AF/Y suggested by the USGS and DWR. The lower estimate resulting from this study is the result of the use of the numerical ground water model which allowed better accounting of the various components of recharge. At build-out under current land use plans, overdraft is estimated to increase to as much as approximately 22,200 AF/Y.

## 4.4 Seawater Intrusion

Continued overdraft in the study are will increase seawater intrusion in the coastal areas and near the Slough. As discussed above, seawater inflow was quantified at 4,410 AF/Y as part of the water budget for the study area. This inflow replaces depleted storage in primarily the Springfield Terrace subarea and in the vicinity of the Slough. As water levels are maintained at increasing lower elevations below sea level, seawater intrudes at an increasing rate, reducing fresh water storage capacity and, as discussed, above impacting water quality.

## 4.5 Subarea Water Supply and Accessibility

Sustainable yield estimates were developed for each of the subareas. All of the subareas with the exception of the Granite Ridge subarea will require substantial reductions in extractions

to achieve sustainable yield. Granite Ridge area is estimated to be at sustainable yield. To maintain sustainable yield no expansion of pumpage can occur in the Granite Ridge subarea.

Although discrete sustainable yield estimates have been developed, water supply conditions in the subareas are interdependent. This interdependence is reflected in the sustainable yield estimates developed. The sustainable yield estimates assume that each of the subareas can be operated at the recommended yield. If extractions from a subarea exceed the recommended sustainable yield value, the sustainable yield for the adjacent subarea is accordingly reduced. For example, extractions in the Granite Ridge subarea are currently estimated to be approximately at sustainable yield. However, water levels in this subarea are declining due to outflow to the adjacent areas in which extraction substantially exceed the sustainable yield estimates. Because of this interdependence, it is difficult to establish firm supply numbers for the subareas. It is recommended that planning analysis and land use modification not be predicated on subarea budgets.

The interdependence of the subareas not withstanding, significant differences in the hydrogeology, current conditions, water availability and nature of demand exist between the subareas which merit consideration of demand management strategies. The generalized conditions are summarized in the following sections.

### 4.5.1 Pajaro

Hydrogeology: Alluvial basin overlying Aromas Sand
Primarily recharged by Pajaro River

Current Conditions: Water levels below sea level
Seawater intrusion and localized elevated nitrate ion concentrations

Water Budget:

| | | |
|---|---|---|
| Pumpage: | 9,030 | AF/Y |
| Sustainable Yield: | 6,490 | AF/Y |
| Required Reduction: | 2,540 | AF/Y |

Water Supply Accessibility:
Generally good. Well yields are high, where not impacted by salt water intrusion, water quality is good. Storage is high, overdraft supported by storage depletion.

Nature of Demand: Pajaro is an area of flat, prime soils, most of which is under cultivation. Some urbanization exists south of Watsonville. There should not be considerable increase in demand unless there is extensive conversion of agriculture to high density residential development.

### 4.5.2 Springfield Terrace

Hydrogeology: Terrace Deposits overlying Aromas Sand
Minimal Natural Recharge

Current Conditions: Water levels below sea level
Significant seawater intrusion and infiltration
Widespread elevated nitrate ion concentrations

Water Budget:

| | |
|---|---|
| Pumpage: | 6,670 AF/Y |
| Sustainable Yield: | 0 AF/Y |
| Seawater Intrusion: | 750 AF/Y |
| Seawater Infiltration: | 2,570 AF/Y |
| Required Reduction: | 6,670 AF/Y |

Water Supply Accessibility:
Generally good. Well yields are relatively high. Where not impacted by salt water intrusion, water quality is good. Storage is high with overdraft supported by storage depletion and seawater intrusion.

Nature of Demand: Almost exclusively agricultural (exception is small area near golf course). Water use is severely restricted by increasing seawater intrusion and infiltration and nitrate contamination. Highly constrained for residential development (i.e. hard demand).

### 4.5.3 Highlands North and South

Hydrogeology: Aromas Sand on Purisima Formation

Current Conditions: Recharged entirely by precipitation
Water levels generally below sea level
Localized sea water intrusion/infiltration and elevated nitrate ion concentrations in shallow wells.

Water Budget:

| | |
|---|---|
| Pumpage: | 9,800 AF/Y |
| Sustainable Yield: | 7,310 AF/Y |
| Seawater Infiltration: | 1,090 AF/Y |
| Required Reduction: | 2,490 AF/Y |

Water Supply Accessibility:

Generally good. Well yields are fair to good. Storage is high, overdraft supported by storage depletion. There are localized areas of high nitrate ion concentrations, assumed to be due to perched systems.

Nature of Demand: Mixed low density residential and strawberries. 90% of residential development has occurred since 1950 and probably most in the last 15 years. Strawberry development is more recent. Unlike areas with perceptible problems (Granite Ridge with low yield wells and Springfield Terrace with salinity), the Highlands perceives no severe water problem (except where locally impacted by water quality). Water is abundant and of good quality. However, current demand and future development will continue to mine the resource.

### 4.5.4 Granite Ridge

Hydrogeology: Veneer of sediments on granite grading to exposed granite
Ground water in weathered or fractured granite
Recharged entirely by precipitation

Current Conditions: Water levels above sea level
Localized elevated nitrate ion concentrations in shallow wells

Water Budget:

| | |
|---|---|
| Pumpage: | 610 AF/Y |
| Sustainable Yield: | 610 AF/Y |
| Required Reduction: | 0 AF/Y |

Water Supply Accessibility:

Generally poor. Well yields are low and extremely variable. The low storage capability creates significant susceptibility to supply problems during drought conditions.

Nature of Demand: Almost exclusively low density residential. No or little viable cultivation. Supply is low yield, not suitable for development of community systems.

### 4.6 Nitrogen Loading

Nitrogen loading is both a cumulative impact on existing uses and a constraint on build-out in the study area. Agricultural application of fertilizers and septic systems will continue to load the vadose zone and ultimately the ground water basin with nitrate ions. Concentrations of nitrates will be highest at the top of the water table, necessitating deeper wells for those properties impacted. Most of the nitrogen load to the area is from agricultural fertilizer. Nitrogen loading is currently approximately 655,000 pounds per year and could double at build-out due to extensive additional strawberry cultivation.

## 5.0 GENERAL RECOMMENDATIONS

Water demand far exceeds supply in the North County study area and as a result the area is in a state of chronic overdraft; a condition that has been documented since the 1950's. Bringing the area into balance will require either the reduction of demand or the augmentation of supply. Water supply options for the North County area are limited. Possible sources of additional supply for the area include proposed importation projects from either, or both the Pajaro and Salinas Valleys. The proposed importation project from the Pajaro Valley would deliver water from outside the County through a pipeline. As proposed, this project would bring an alternative supply of water to the Pajaro and Springfield subareas. The Salinas River BMP project previously proposed to deliver water to the North County area. Currently, the BMP concept does not contain provisions to deliver water to North County. However, the BMP could be modified to include the delivery of water to the North County area. Delivery of water by either project to the study area will require the construction of a distribution infrastructure. Neither of these projects, if authorized, will be completed in the near future. In the interim, water supply problems in North County will need to be addressed through demand management. Although the subarea delineation is somewhat misleading hydrogeologically, the subareas do merit different demand management approaches. For this reason, the subareas are maintained.

Volume II of this report contains alternatives for the management of the North County water supply and demand. It also contains a detailed discussion of policy issues and legal and institutional constraints which arise in the consideration of ground water management schemes. Volume II also contains an interim plan to manage demand in furtherance of the development of a comprehensive ground water management plan.

## 6.0 CLOSURE

This report has been prepared for the exclusive use of the MCWRA for specific application to the North County area of Monterey County. The findings and conclusions presented herein were prepared in accordance with generally accepted hydrogeologic engineering and planning practices. No other warranty, express or implied, is made.

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# APPENDIX A
# HYDROGEOLOGIC EXPLORATION PROGRAM

**Subsurface Exploration and Monitoring Well Construction**

Subsurface exploration and monitoring well construction operations commenced on November 17, 1994, and continued through December 7, 1994. Based on review of the available data, locations for monitoring well clusters that would assist in filling data gaps regarding aquifer delineation, water quality, and water level data were submitted to the Agency for approval. The original Scope of Work included the drilling and completion of three monitoring well clusters, each consisting of an approximate 400- and 200-foot completion in separate boreholes, for a total drilling footage of 1,800 feet. However, after reviewing available water level, water quality, and hydrostratigraphic data, it was apparent that the project would be better served by drilling deeper at two locations, utilizing the extra footage intended for the third cluster. The scope was then modified to consist of the drilling of two clusters, each consisting of an approximate 600- and 300-foot completion. The deeper completions allow better delineation of the vertical extent of fresh water-bearing materials and further the understanding of the hydrogeologic relationships between the study area and the ground water basins to the north and south. Two sites were recommended: one between the Springfield Terrace and Las Lomas areas in the northwestern portion of the study area; and another near the intersection of Castroville Boulevard with Elkhorn Road in the southern portion of the study area.

The recommended site in the Las Lomas area was at the end of Hudson Landing Road within the County right-of-way. This site was selected based on the following criteria:

- Recent water quality data collected in the Springfield Terrace area have suggested expansion of the seawater intrusion migrating inland from the coast.

- Recent water level measurements in the Las Lomas area (August 1994) indicate static water surface elevations 25 feet *below* mean sea level, creating a significant landward gradient and a potential mechanism for seawater intrusion. The monitoring wells allow for collection of additional water level data in the area between Springfield Terrace and Las Lomas to determine the actual gradient.

- A dedicated monitoring well cluster at this location serves as an "early warning" detection site for advancing seawater intrusion toward the Cal-Water Service Company's water supply wells for the community of Las Lomas.

- To confirm and/or delineate the thickness of fresh water-bearing deposits at this location.

The second recommended site was in the County right-of-way near the intersection of Castroville Boulevard with Elkhorn Road. This location was selected for the following reasons:

- Water level data collected in the area provide evidence for the possible existence of two aquifer systems. A monitoring well cluster at this location would serve to confirm reported water levels.

- Limited lithologic data collected in the area suggest the possible existence of an upper and lower Aromas Formation. Drilling at this location provided needed additional lithologic data to identify and/or delineate the existence of discrete units corresponding to an upper and lower Aromas Formation.

- To confirm/delineate the thickness of fresh water-bearing materials at this location.

Limited water quality data collected in the area suggest possible seawater/brackish water infiltration in wells near Elkhorn Slough. The monitoring well cluster at this location served to confirm/delineate the presence of seawater/brackish water at this location.

Well permits from the County of Monterey Environmental Health Services and encroachment permits from the County of Monterey Public Works Department were acquired for each of the sites.

Drilling equipment consisted of a truck-mounted direct-rotary drill rig (Mayhew 1000), a 3,000-gallon water/pipe truck, and a portable mud tank equipped with a shaker screen and a desanding cone. Drilling fluids were circulated through a 400 gpm centrifugal pump. The drilling fluid consisted of high grade bentonite. Make-up water used during the drilling at the Hudson Landing Road site was obtained from a Cal-Water hydrant located in the town of Las Lomas. Water for the Dolan Road site was obtained from a City of Castroville hydrant.

The work performed at each site began with the drilling of a test boring. The test boring at the Hudson Landing Road site was drilled to a total depth of 700 feet. The test boring at the Dolan Road site was drilled to a total depth of 600 feet. During the drilling process, drilling activity was monitored and a lithologic log was prepared by a Fugro geologist. Cuttings samples were collected at 10-foot intervals. Upon reaching the final depth, a geophysical log was performed. The geophysical log included measurements of spontaneous potential (SP), resistivity (long- and short-normal, and single point), and natural gamma-ray. The geophysical and lithologic logs, as well as the cuttings samples, were reviewed by Fugro staff, and the completion schedules for the wells were determined. The lithologic log for each site is attached. The geophysical log was transmitted to the Agency under separate cover.

Two separate perforated zones were desirable at each site to determine the degree of hydraulic continuity between aquifer zones that appear to be distinct on the geophysical log. Following completion of each deep boring, a second shallow monitoring well was drilled and completed at each site. At Hudson Landing Road, the shallow boring was drilled to a depth of 145 feet. At the Dolan Road site, the initial deep boring was completed as the shallow monitoring well due to difficulty in advancing the casing to a depth greater than 275 feet. Therefore, a cement seal was placed between

the depths of 315 and 360 feet, with the well completed to a depth 205. Subsequently, a second boring was drilled and completed as the deep monitoring well.

Each monitoring well consists of 2-inch-diameter Schedule 40 PVC, joined together using belled ends or slip couplers, solvent cement, and screws. The screened section(s) of each well are perforated with horizontal 0.040-inch machine-cut slots. Each well was provided with a 5-foot-long cellar, which was included as part of the well design to facilitate air development of the screened interval. The upper 5 feet of each well casing consists of 4-inch-diameter Schedule 40 PVC, designed to accommodate instrumentation for collection of water level data. Each well was gravel packed with three-eighths-inch minus, "River Run" pea-gravel provided by the Granite Rock Company of Salinas, California. An annular surface seal was provided in each of the completed borings. Surface seals consisted of "Volclay" grout placed through a tremie pipe from the top of each gravel pack to the surface. Each monitoring well was developed through air lifting following well construction and, prior to the termination of the air lifting, a sample was collected from each well for water quality analysis by the Agency. A drawing depicting the lithology and monitoring well construction characteristics of each well are included in this appendix. Well construction details are summarized on the table entitled *North County Monitoring Well Summary*.

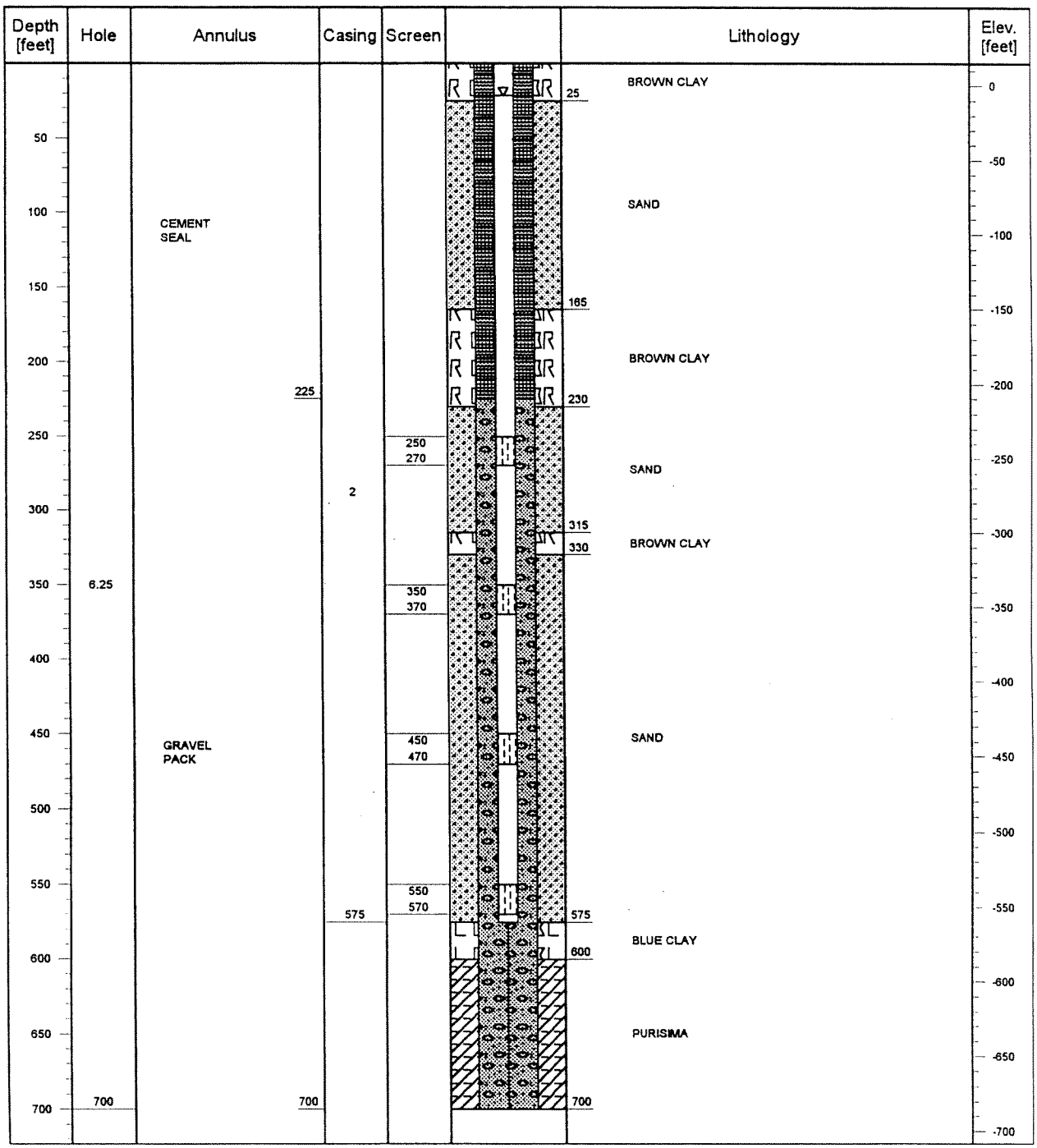
# North Monterey County Hydrogeologic Study - Well Log

| Well Ident | Description |
|---|---|
| 12S/02E-28G02 | HUDSON LANDING ROAD DEEP MW |

| Drill Method | DIRECT ROTARY | Drill Date | 11/17/94 |
|---|---|---|---|

| X | 1194650.00 | Y | 567650.00 | Z | 15.00 | SWL | -6.50 |
|---|---|---|---|---|---|---|---|

| Scales | |
|---|---|
| Vertical | Horizontal |
| 3750.0 | 15.0 |



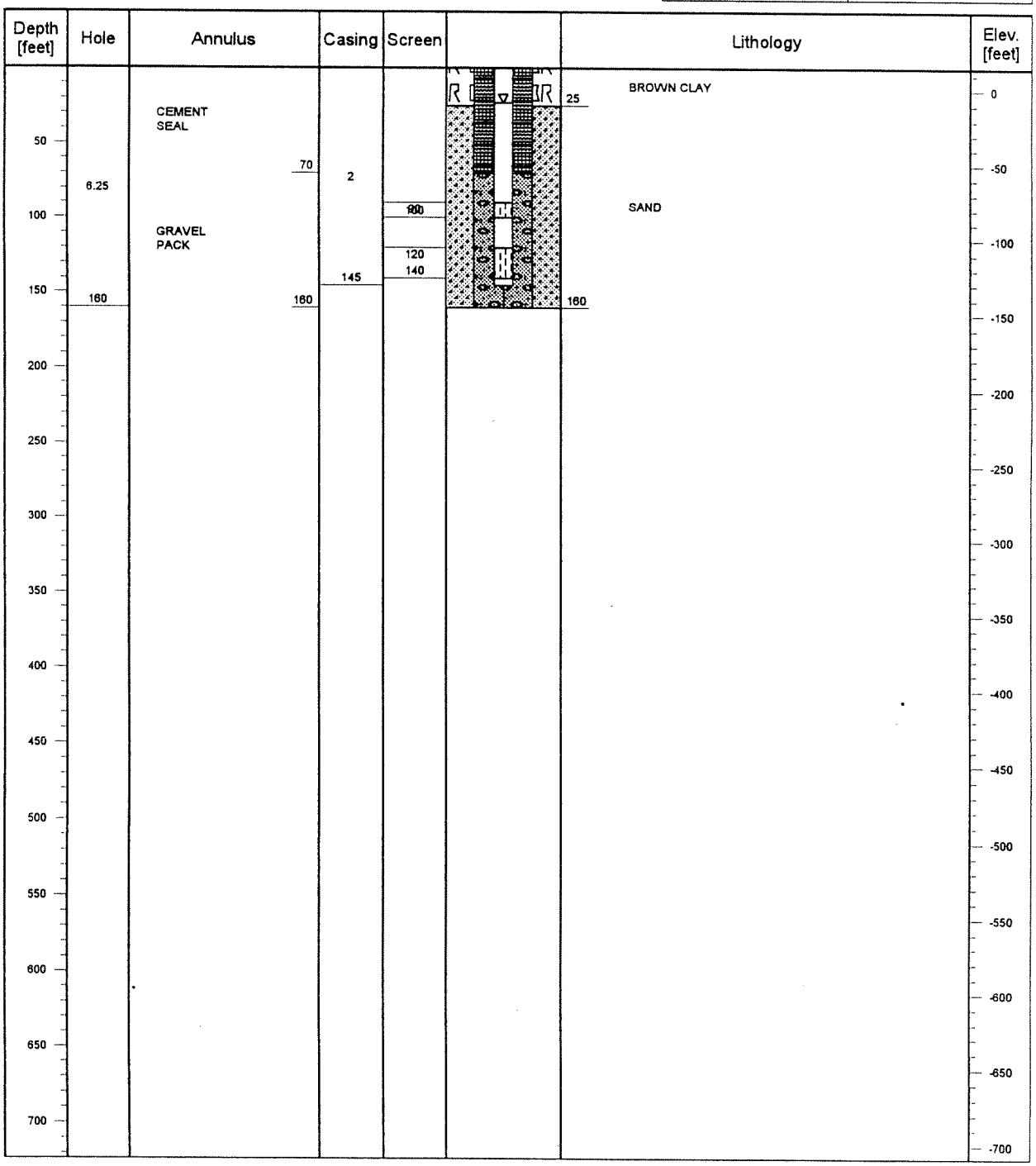
# North Monterey County Hydrogeologic Study - Well Log

| Well Ident | Description |
|---|---|
| 12S/02E-28G03 | HUDSON LANDING ROAD SHALLOW MW |

| Drill Method | DIRECT ROTARY | Drill Date | 11/19/94 |
|---|---|---|---|

| X | 1194642.00 | Y | 567650.00 | Z | 15.00 | SWL | -8.25 |
|---|---|---|---|---|---|---|---|

| Scales | |
|---|---|
| Vertical | Horizontal |
| 3750.0 | 15.0 |



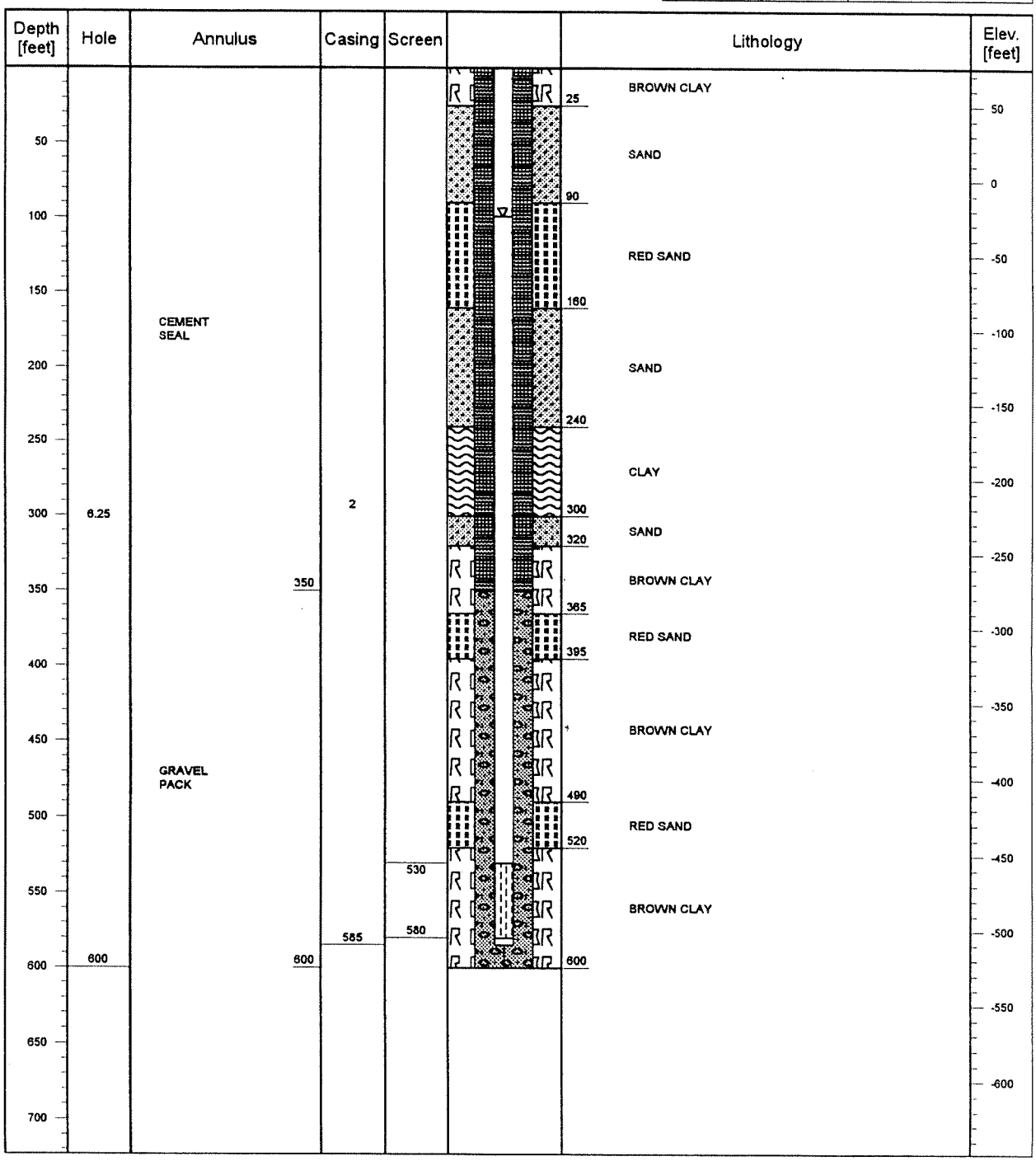
# North Monterey County Hydrogeologic Study - Well Log

| Well Ident | Description |
|---|---|
| 13S/02E-15R02 | DOLAN ROAD DEEP MW |

| Drill Method | DIRECT ROTARY | Drill Date | 12/4/94 |
|---|---|---|---|

| X | 5762959.00 | Y | 2184856.00 | Z | 75.00 | SWL | -23.85 |
|---|---|---|---|---|---|---|---|

| Scales | |
|---|---|
| Vertical | Horizontal |
| 3750.0 | 15.0 |



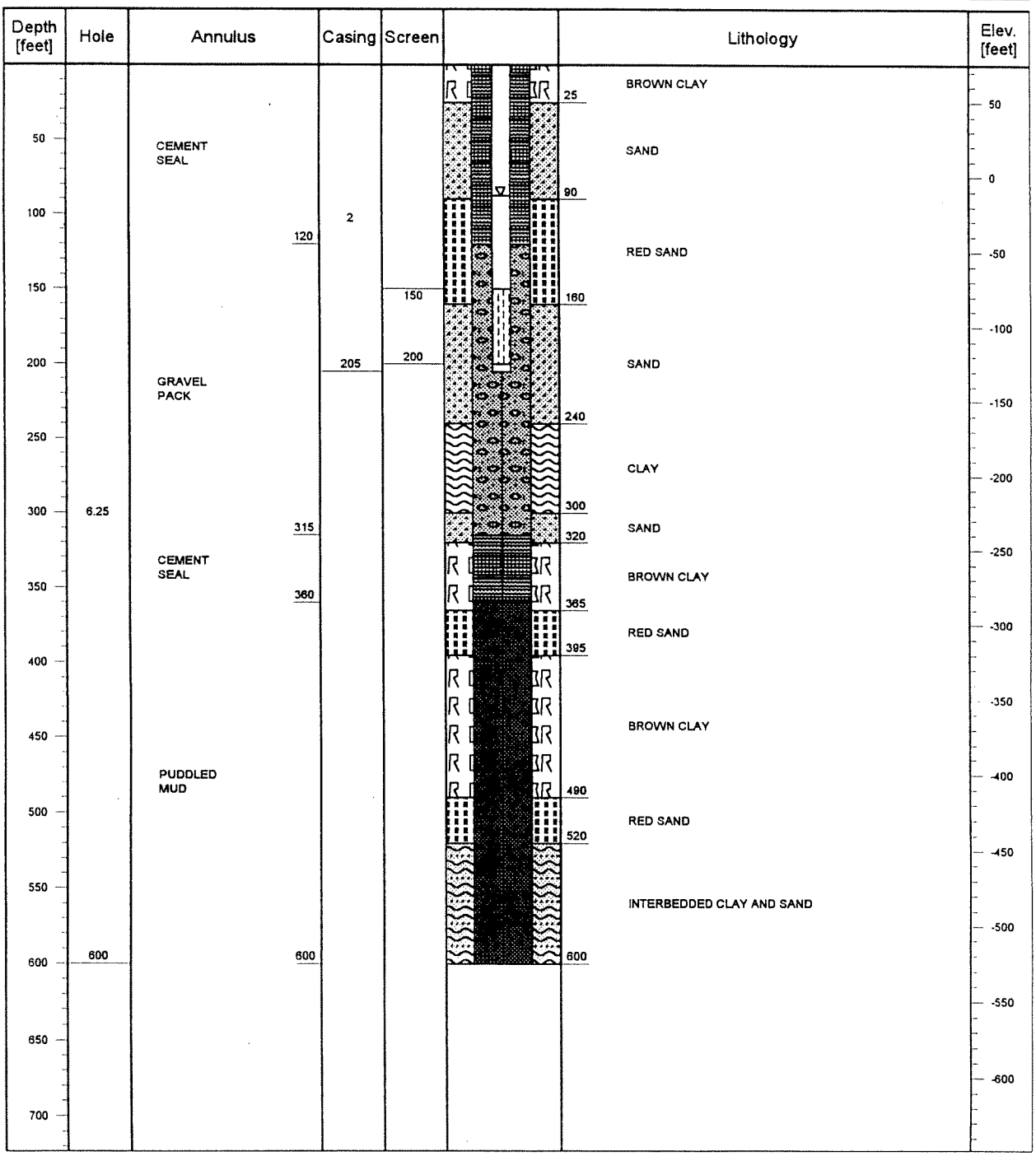
# North Monterey County Hydrogeologic Study - Well Log

| Well Ident | Description |
|---|---|
| 13S/02E-15R03 | DOLAN ROAD SHALLOW MW |

| Drill Method | DIRECT ROTARY | Drill Date | 11/30/94 |
|---|---|---|---|

| X | 5762967.00 | Y | 2184856.00 | Z | 75.00 | SWL | -12.55 |
|---|---|---|---|---|---|---|---|

| Scales | |
|---|---|
| Vertical | Horizontal |
| 3750.0 | 15.0 |



## North County Monitoring Well Summary

| | Hudson Landing Road | | Dolan Road | |
|---|---|---|---|---|
| | Deep | Shallow | Deep | Shallow |
| Well Number | 12S/02E-28G02 | 12S/02E-28G03 | 13S/02E-15R02 | 13S/02E-15R03 |
| Location | Attached | | Attached | |
| E-log | Attached | | Attached | |
| ~Elevation (ft) | 15 | 15 | 90 | 90 |
| Total Depth | 575' | 145' | 585' | 205' |
| Screen Intervals | 250'-270' | 90'-100' | 530'-580' | 150'-200' |
| | 350'-370' | 120-140' | | |
| | 450'-470' | | | |
| | 550'-570' | | | |
| Cellar | 570'-575' | 140'-145' | 580'-585' | 200'-205' |
| Seal Depth | 225' | 70' | 350' | 120'/315'-360' |
| Gravel Pack | 220'-700' | 70'-160' | 350'-600' | 120-315' |
| Water Level (12/7/94) | 21.5 | 23.25 | | |
| Water Level (12/19/94) | | | 98.85 | 87.55 |
| ~Water Elevation (ft) | -6.5 | -8.25 | -8.85 | 2.45 |
| Water Quality (umhos/cm) | 743 | 587 | 480 | 745 |
| chloride (mg/l) | 56 | 24 | 54 | 158 |

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# REPORT OF FIELD OBSERVATIONS

FUGRO ◘ McClelland

| | |
|---|---|
| Job No.: | Date: 11-17-94 (M T W X T F S S) |
| Client: MCWRA | Project: NORTH COUNTY HYDRO. INVESTIGAT. |
| Location: WEST END HUDSON LANDING RD | Weather: COOL / RAINING |
| Observer: DBE | Observation Period: Start: 7:00 Stop: 15:30 |

Description: DRILL & LOG TWO MONITORING WELLS TO ~ 600 & 200' BGS.

7:00 ARRIVE @ FUGRO MTY / LEAVE FOR SITE

7:50 ARRIVE ON SITE, MEET WITH DRILLERS & SET UP TO DRILL

8:30 SPUD IN AND BEGIN LOGGING

9:00 - 9:20 REPAIR DAMAGED SUMP PUMP

13:45 BOTTOM OUT @ 600', CIRCULATE

14:15 TRIP OUT OF HOLE AND SECURE SITE

15:30 LEAVE SITE, DRILLER LEAVES FOR BAKERSFIELD TO OBTAIN 100' FEET OF ADDNL DRILL PIPE

NOTE: PAIGE SECURITY WILL PROVIDE NIGHT WATCH SERVICES BEGINNING AT 6:00 PM

Mileage: _____ miles

| | | |
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# REPORT OF FIELD OBSERVATIONS

FUGRO ◘ McClelland

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|---|---|
| Job No.: | Date: 11/18/94 (M T W T X F S S) |
| Client: MCWRA | Project: NORTH CO. HYDRO. INVESTIGATION |
| Location: WEST END OF HUDSON LANDING RD | Weather: CLEARING & COOL |
| Observer: DBE | Observation Period: Start: 7:30 Stop: |

Description: DRILL 100' AND ELOG FIRST MONITORING WELL

7:30 ARRIVE @ FUGRO MONTEREY, PREPARE FOR DRILLING

7:45 DRILLER CALLS ESTIMATING ARRIVAL TIME FOR 14:45, CALL CRAIG WITH WELLENCO AND PREDICT ~12:00 ELOG TIME

8:15 LEAVE FOR SITE

8:50 ARRIVE ON SITE & MEET WITH DRILLER AND BEGIN ADDN'L DRILLING FROM 600' TO 700' IN FIRST MW., TRIP IN WITH DRILL STRING

11:15 BEGIN DRILLING FROM 600'.

11:35 DOWN FOR SUMP PUMP REPAIR & FILL WATER TRUCK

12:45 RESUME DRILLING

13:30 WELLENCO (CRAIG) ARRIVES TO PREPARE FOR ELOGGING

14:15 TRIP OUT AND BEGIN ELOGGING
NOTE: ELOG BOTTOMS OUT WITH GAMMA AT 599'

15:00 DRILLERS PERFORM SWEEPER RUN TO CLEAN OUT HOLE FOR (SP/RES) STANDARD LOG 15:30 LEAVE SITE

Mileage: _____ miles

| | | |
|---|---|---|
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# REPORT OF FIELD OBSERVATIONS

FUGRO ◘ McClelland

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|---|---|
| Job No.: | Date: 11-19-94 (M T W T F S S) |
| Client: MCWRA | Project: No. County Hydrol. Investigation |
| Location: West Hudson Landing Rd | Weather: Cool / clear |
| Observer: DBE | Observation Period: Start: 7:15 Stop: |

Description: Complete both shallow & deep monitoring wells

7:15 Leave for site

7:45 Arrive on site / Drillers running wiper run for casing installation, set up pipe for installation

NOTE: Completion schedule based on Elog

| | DEEP | SHALLOW |
|---|---|---|
| Total Depth | 700' | 160' |
| Seal Depth | 220' | 70' |
| Gravel Pack | 220' - 640' | 70 - 160' |
| Bottom of well | 575' | 145' |
| Blank | 0 - 250' | 0 - 90' |
| Screen | 250 - 270' | 90' - 100' |
| Blank | 270 - 350' | 100' - 120' |
| Screen | 350' - 370' | 120' - 140' |
| Blank | 370' - 450' | 140 - 145' (cellar) |
| Screen | 450' - 470' | |
| Blank | 470' - 550' | |
| Screen | 550 - 570' | |
| Blank | 570 - 575' (cellar) | |

14:00 - 15:30 Drill and install shallow well

15:30 - 17:30 Clean up & leave site ( 18:30 Drillers Lv. site)

Mileage: _____ miles

| | | |
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# REPORT OF FIELD OBSERVATIONS

FUGRO ◘ McClelland

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|---|---|
| Job No.: | Date: 11-20-94 (M T W T F S S) |
| Client: MCWRA | Project: No. COUNTY HYDRO. INVESTIGATION |
| Location: WEST END HYDSON (LANDING RD) | Weather: COOL / CLEAR |
| Observer: DBE | Observation Period: Start: 7:00 Stop: |

Description: DEVELOP & SAMPLE BOTH MONITORING WELLS

7:00 P/U MATERIALS FROM SHED AND LEAVE FOR SITE

8:00 ARRIVE ON SITE & UNLOAD EQUIPMENT FOR DEVELOPMENT

9:15 DRILLERS ARRIVE ON SITE, SET UP RIG OVER DEEP WELL, MAKE CROSSOVER TO DEVELOP SHALLOW WELL SIMULTANIOUSLY

10:30 UNIVERSAL JOINT FAILS ON RIG / R:R TILL 11:15

12:00 ROBERT MARKS ARRIVES TO TAKE OVER OBSERVATION

12:30 - 13:30 INVESTIGATE NEXT DRILL SITE @ DOLAN & LOSTMAN'S BLVD ⇒ RETURN TO HWY

Mileage: _____ miles

| | | | |
|---|---|---|---|
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# REPORT OF FIELD OBSERVATIONS

| | |
|---|---|
| Job No.: 94-71-0160 | Date: 11/29 — M X W T F S S |
| Client: MCWRA | Project: North County M.W.'s |
| Location: Dolan Rd | Weather: clear |
| Observer: R. Munks | Observation Period: Start: 7^45 Stop: 17^20 |

Description: on-site 7^45 Rick Redfearn Drilling on-site & (Deem) Backhoe operator preparing site for Drilling. 9^00 Joe from Moss Landing Marine Lab stopped by site. Informed me that slope just above site is a restoration project. I said we would avoid disturbing any planted shrubs & restore the site as much as possible when finished Drilling. Dan Erbes on-site.

10^30 Mo Co. Public Works stopped by site. Expressed concerns Regarding the trench/pit causing slope stability problems. Informed Them we would only be here 1 week & will Restore site. They Said everything should be o.k.

11^10 M.C.P.W. (Vic Lewis) stops by Agency & Tells us we'll have to relocate the site due to the Landslide problem. He indicates some lack of communication @ P.Works between him & the Inspector has allowed us to proceed this far. Permission should never have been granted for this site. Call M. Feeney - he will call USA for New site

12^35 Pac Bell on-site → cleans New site → P.B above ground

13^30 Begin digging pit @ New site - Pull up Phone line Call Martin Feeney - he calls PB.

14^10 PB on-site - checks uncovered line → concludes it is abandoned.

14^35 Continue preping New site. D. Erbes leaves site.

Mileage: _____ miles 16^30 Dean Leaves Site, 17^20 I Leave Site. RM

| | | | |
|---|---|---|---|
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# REPORT OF FIELD OBSERVATIONS

FUGRO

| Job No.: | Date: 11/30/94 | M | T | W | T | F | S | S |
|---|---|---|---|---|---|---|---|---|
| Client: MCWRA | Project: NORTH COUNTY | | | | | | | |
| Location: DOLAN & RUSSO RD | Weather: COOL / CLEAR | | | | | | | |
| Observer: DAN ERBES | Observation Period: Start: 7:00 Stop: | | | | | | | |

Description: DRILL & INSTALL TWO MONITORING POINTS

7:00 LEAVE FOR SITE

7:30 ARRIVE ON SITE & MEET WITH DRILLERS

8:00 SPUD IN

9:20 REPAIR SUMP PUMP

9:40 REPAIR CLOGGED MUD PUMP, RESUME 9:50

10:00 CALL OFFICE TO MOBILIZE ELOG EQUIP FROM BAKERSFIELD

* 12:10 RIG DOWN FOR REPAIRS

15:05 RESUME DRILLING

15:50 TO 16:30 TRIP OUT FOR ROCK BIT

18:15 TRIP OUT FOR ELOG

17:00 → 20:00 ELOG COMPLETE DRILLERS LEAVE SITE

20:40 LEAVE SITE & ARRIVE @ FUGRO MTY @ 21:15

Mileage: 50 miles

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# REPORT OF FIELD OBSERVATIONS

FUGRO ◻ McClelland

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Job No.: 94-71-0960 | Date: 12-1-94 | M | T | W | X | F | S | S |
| Client: MCWRA | Project: NORTH COUNTY HYDRO INVEST. | | | | | | | |
| Location: DOLAN & RUSSO RD | Weather: COOL / CLEAR | | | | | | | |
| Observer: DAN ERBES | Observation Period: Start: 7:00 Stop: | | | | | | | |

Description: INSTALL DEEP MONTORING WELL AT NW CORNER OF DOLAN & RUSSO

7:00 LEAVE FOR SITE

7:30 ARRIVE ON SITE & MEET WITH DRILLERS

7:40 → 9:00 TRIP IN AND OUT (SWEEPER RUN)

9:30 → BEGIN INSTALLATION OF CASING; COMPLETION SCHEDULE

BLANK 4" 0 – 5'

BLANK 2" 5 – 530'

SCREEN 2" 530 – 580'

BLANK 2" 580 – 585'.

10:15 CASING MEETS REFUSAL @ 275'; CLAY SWELL CAUSES BRIDGE

10:15 → 1030 PULL CASING

10:30 TRIP IN AND OUT W/ SWEEPER RUN

NOTE: POLYMER ADDED TO MUD TO REDUCE RISK OF ADDITIONAL SWELLING

12:30 CALL OFFICE, SUGGEST INSTALLING PLUG @ 250 – 350 AND COMPLETE SHALLOW WELL ABOVE PLUG AND REDRILL DEEP HOLE

12:50 – 13:50 SECURE SITE AND RETURN TO FUGRO MONTEREY

Mileage: _____ miles

| Copy Sent To Client: Y N | Continued On Next Page | Page / Of / |
|---|---|---|

Form: Vta.(ldobsrv-5/92)

# REPORT OF FIELD OBSERVATIONS

FUGRO

| | |
|---|---|
| Job No.: 94-7L 0160 | Date: 12/3 (M T W T F S) |
| Client: MCWRA | Project: North County - MW's |
| Location: Dolan & Russo Rds | Weather: overcast / Rain |
| Observer: R Mabry | Observation Period: Start: 9:30 Stop: 15:30 |

Description: On-site 9:30. Begin to prepare casing.

10:00 contractor (Rick, Sheldon, & Rick JR.) on-site

10:40 Try Cement Seal @ ~ 313'. Call M. Feeney Regarding adequacy & placement of Seal. He Indicates it should be plenty → Call Dean Boyston to deliver 3 to 4 tons Gravel.

11:00 Circulate out from 250'

11:30 Run Casing 0 - 150 Blanks, 150 - 200 Screen, 5' cellar

11:50 Begin Gravel Packing -

12:45 Try Gravel @ ~ 120' - used ~ 4 Tons → Have Dean Go pick up 5 more Tons for the Deep well (10 Tons total).

13:00 Begin Pumping Seal from 105' (Tremie location)

13:20 Top off Seal 0 Volcly visable @ Surface. 2 lifts (5 Sacks / 100 gal) (~275 ft³)

14:00 Rick Pulls forward ~10' & sets up to Drill 600' hole tomorrow.

14:50 Sheldon Leaves to get more water.

15:30 Leave Site

Mileage: _____ miles

| | | | |
|---|---|---|---|
| Copy Sent To Client: Y N | Continued On Next Page | Page | Of |

Form: Vta.(fldobsrv-5/92)

# REPORT OF FIELD OBSERVATIONS

FUGRO ◘ McClelland

| | |
|---|---|
| Job No.: 94-71-0160 | Date: 12-4-94 (M T W T F S ~~S~~) |
| Client: MCWRA | Project: NORTH Co HYDRO STUDY |
| Location: RUSSO & DOLAN ROAD | Weather: COLD / WET |
| Observer: DAN EBBS | Observation Period: Start: 7:00 Stop: |

Description: DRILL AND INSTALL DEEP (585') MONITORING WELL @ DOLAN & RUSSO RD'S

7:00 LEAVE FOR SITE

7:30 ARRIVE ON SITE, BEGIN DRILLING

10:00 AVG 160' PER HOUR DOWN TO 440'

12:00 COMPLETE DRILLING TO 600' AND PULL OUT UP TO 200 FEET AND COMMENCE TO SWEEP

12:30 BOTTOM OUT & CIRCULATE

14:00 PULL OUT & INSTALL CASING, COMPLETION SCHEDULE AS FOLLOWS

0 - 5' 4" PVC BLANK
5 - 530' 2" PVC BLANK
530 - 580 2" PVC SCREEN
580 - 585 2" PVC BLANK (CELLAR)

NOTE: DEAN (MUDSLINGER BACKHOE SERVICE) ON SITE W/ 5 TONS 3/8" RIVER RUN GRAVEL @ 12:45 LOAD DUMPED @ 14:30, HE LEAVES SITE

15:30 TAG TOP OF GRAVEL @ 350'

16:30 WATER TRUCK RUN & SET UP TO PUMP SEAL

Mileage: _____ miles

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|---|---|---|
| Copy Sent To Client: Y N | Continued On Next Page | Page / Of |

Form: Vta.(ldobsrv-5/92)

# REPORT OF FIELD OBSERVATIONS

| | |
|---|---|
| Job No.: 94-71-0160 | Date: 12/5 (~~M~~ T W T F S S) |
| Client: MCWRA | Project: North County |
| Location: Dolan & Russo Rds | Weather: Partly Cloudy |
| Observer: R. Munks | Observation Period: Start: 7^50 Stop: 16^00 |

Description: on Site 7^50, Contractor already on-site - has Tagged Seal @ ~40'. Mix 1 lift of Volclay
8^05 Ask Workers in Field if o.k. to Allow Development water on Field - it is
8^15 Top off Seal. Volclay Grout visable @ the surface
9^30 Begin Air lifting from ~420'
10^40 Install 6 Joints - Resume Air lifting from 546'
@ Muddy Initially - then Cleans up by 11^10.
11^10 Allow well to Recover
11^20 Resume Air lifting from ~570' - @ muddy the cloudy
12^45 Begin Air lifting Shallow well. @ muddy Initially.
13^40 Rick Goes to Dump.
15^00 Rick Back on-site.
16^00 Dan Erbes on-site. Instruct him in Sampling Procedures. I Leave Site.

R. Munks

Mileage: _____ miles

| | | |
|---|---|---|
| Copy Sent To Client: Y N | Continued On Next Page | Page 1 Of 1 |

5855 Olivas Park Drive • Ventura, California 93003-7672 • (805) 650-7000, FAX (805) 650-7010

Form: Vta.(fldobsrv-5/92)

# REPORT OF FIELD OBSERVATIONS

FUGRO ◻ McClelland

| | |
|---|---|
| Job No.: 94-71-0160 | Date: 12/7/94 (M T X W T F S S) |
| Client: MCWRA | Project: NORTH COUNTY |
| Location: DOLAN ROAD / HUDSON LANDING | Weather: COOL / CLEAR |
| Observer: DBE | Observation Period: Start: Stop: |

Description: RECORD WATER LEVELS & PLACE TRAFFIC ENCLOSURES

10:00 LEAVE FOR OSH / PICK UP SUPPLIES

12:00 DROP DOLAN ROAD WATER SAMPLES OFF @ COUNTY

12:30 ARRIVE @ HUDSON LANDING & INSTALL WELL BOXES

HUDSON LANDING (WATER LEVELS) DEEP 21.5'
SHALLOW 23.25

15:30 ARRIVE @ DOLAN ROAD & RECORD WATER LEV,

DOLAN ROAD DEEP 151.8 − 1.3' ≈ 150.5 -60
SHALLOW 139.6' − 1.5 = 138.1 -48

NOTE: DOLAN ROAD SITE IS TOO MUDDY TO RESTORE DUE TO TUESDAY RAIN, WILL ATTEMPT TO RESTORE ON MONDAY AS WEATHER CALLS FOR CLEAR / WINDY CONDITIONS FOR WEEKEND

16:00 SECURE & LEAVE SITE

16:45 ARRIVE @ FUGRO HTY

Mileage: _____ miles

| | | |
|---|---|---|
| Copy Sent To Client: Y N | Continued On Next Page | Page 1 Of 1 |

# FUGRO WEST, INC.

201 HOFFMAN AVENUE, SUITE 14
MONTEREY, CALIFORNIA 93940

## DRILLING LOG

| | | | |
|---|---|---|---|
| CLIENT: MCWRA | | | |
| WELL: Hudson Landing Rd. | No.: | GEOLOGIST: Dan Erbes | |
| COUNTY: Monterey | STATE: CA | LOGGING PERSONNEL: Dan Erbes | |
| TOWNSHIP: | RANGE: | SECTION: | SERVICES PERFORMED: Lithologic Logging and Contractor Supervision |
| LOCATION: End of Hudson Landing Rd. on South Side | | DATE BEGUN: 11/17/94 | DATE RELEASED: |
| ELEVATION: | TOTAL DEPTH: 700 | INTERVAL LOGGED: | FOOTAGE: |
| SPUD DATE: 11/17/94 | FINAL DATE: | REMARKS: | |
| DRILLING COMPANY: Redfearn Drilling | | | |
| PUSHER: Rick Redfearn | | | |

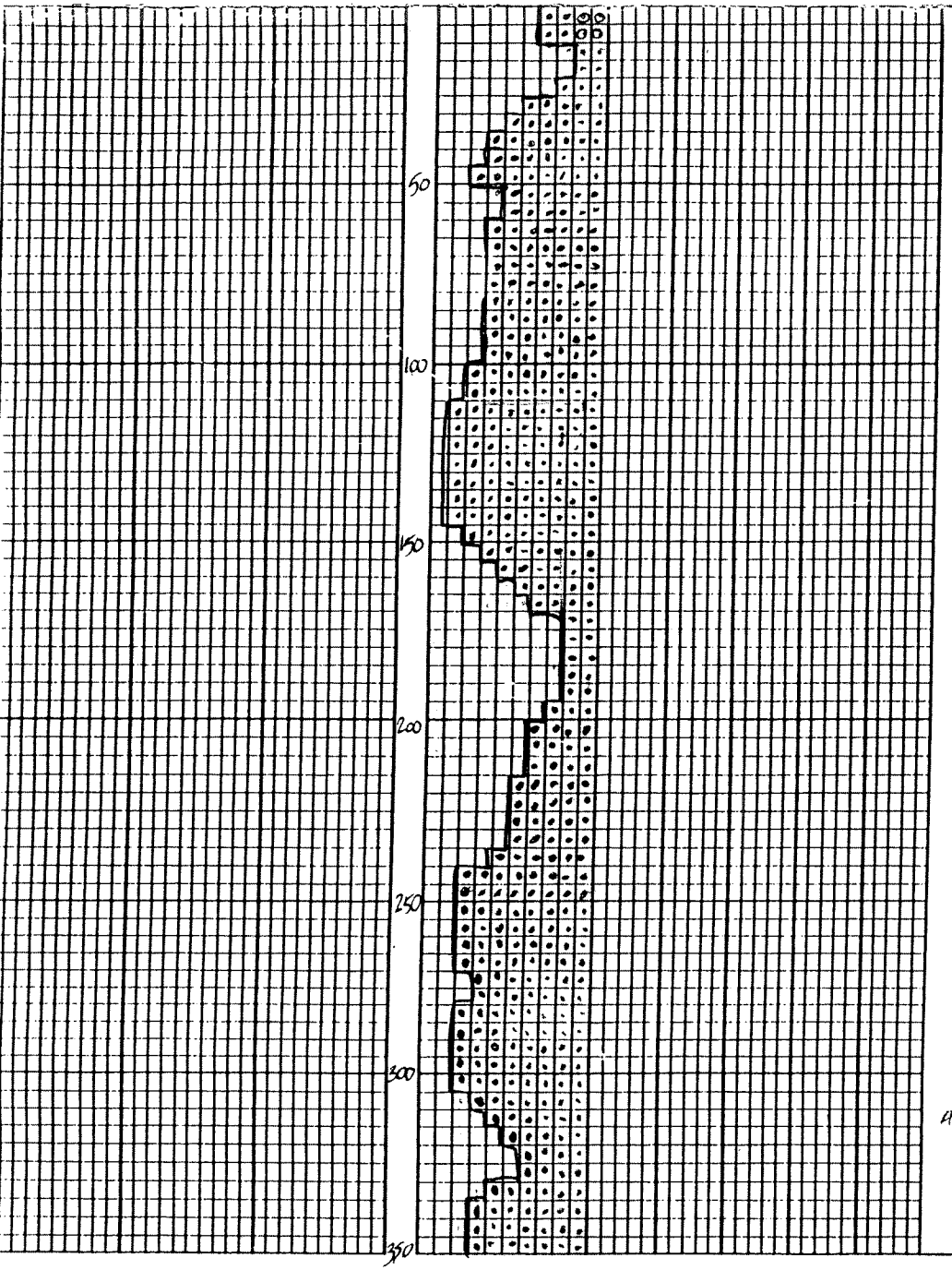
| HOLE SIZE | | |
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| CASING RECORD | | |
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| ABBREVIATIONS | | | |
|---|---|---|---|
| CO | CIRCULATE OUT | PR | POOR RETURNS |
| LAT | LOGGED AFTER TRIP | SC | SAND CONTENT (%) |
| NB | NEW BIT | VIS | VISCOSITY (SECONDS) |
| NCB | NEW CORE BIT | WL | WATER LOSS (CC/30 MIN) |
| NR | NO RETURN | WT | FLUID WEIGHT (LBS/CU.FT.) |
| | | | |

CLAY SILT SAND GRAVEL

| DRILLING RATE (FT/HR) | LITHOLOGY: SAND CONCENTRATION 100 50 0 | VIS POR: POOR FAIR GOOD | GRAIN-SIZE DISTRIBUTION (Value x 10 = %): COARSE MEDIUM FINE VERY FINE | RIG ACTIVITY MUD ADDITIONS AND PROPERTIES | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|
| | | | | | |




9:20

9:35

ADD 2 BAGS OF QUICK GEL

ADD +3 BAGS QUICK GEL

CLAY – FILL WITH COARSE SAND/GRAVEL AND DEBRIS

CLAY – MOTTLED ORANGE BROWN WITH SAND

CLAY – A/A, DARK BROWN

SAND – BROWN, HETEROLITHIC W/CLAY INTERBEDS FINE TO COARSE SAND

– A/A GREY BROWN, NO CLAY VF TO MED SAND SLIGHTLY INDURATED, NO CLAY

STICKY W/ FINE TO COARSE SAND, GREY BROWN CLAY INTERBEDS

A/A, ORANGE BROWN

SAND – A/A W/CLAY INTERBEDS, W/GRAVELS

A/A

WITH CLAY STREAKS

SAND – A/A FINE TO COARSE SAND

CLAY – LIGHT BROWN

CLAY – BLUE WITH LIGHT BROWN CLAY

CLAY – A/A WITH SANDY SEAMS/CLAY BEDS

CLAY – SANDY BLUE

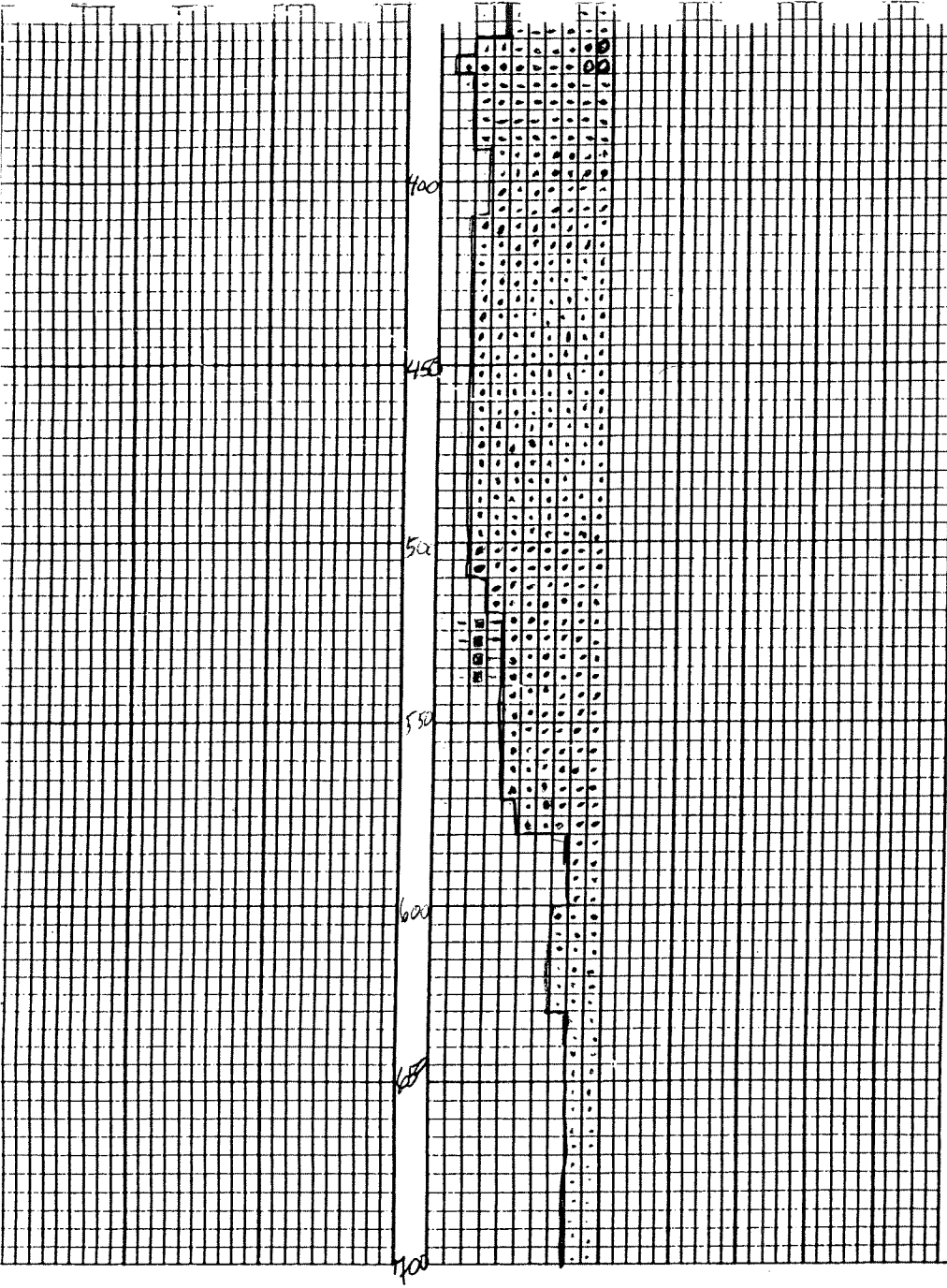
CLAY – A/A

SAND – ORANGE BROWN HETEROLITHIC FINE TO COARSE

SAND – A/A

CLAY – LIGHT BROWN, SANDY

SAND – ORANGE BROWN HETEROLITHIC FINE TO COARSE




ADD ~3 BAGS QUICK GEL

12:45

ADD 3 BAGS QUICK GEL 13:55

13:45

CIRCULATE 1 HR OF HOLE

ARRIVE ON SITE @ 9:00
NEXT DAY TRIP IN 10:15
SUMP PUMP REPAIR 10:15 - 11:15
BEGIN DRILLING FROM 600 @ 11:15
11:35 BROKE FOR SUMP PUMP REPAIR
12:45 RESUMED

SAND - A/H

SAND - GREY BROWN, QUARTZ RICH MED TO V. COARSE SAND

SAND - ORANGE BROWN FELDSPATHIC FINE TO COARSE

SAND - LIGHT BROWN V. FINE TO MED.

SAND - GREY, MED TO V. COARSE

CLAY - BLUE SILTY

CLAYSTONE - BLUE W/SAND INTERBEDS NOTE: SAND COULD BE SLOUGH

CLAYSTONE - A/A W LIGHT BROWN SOFT CLAY INTERBEDS

# FUGRO WEST, INC.

201 HOFFMAN AVENUE, SUITE 14
MONTEREY, CALIFORNIA 93940

## DRILLING LOG

| | | | |
|---|---|---|---|
| CLIENT: MCWRA | | | |
| WELL: Dolan Rd. | No.: | GEOLOGIST: Dan Erbes | |
| COUNTY: | STATE: | LOGGING PERSONNEL: Dan Erbes | |
| TOWNSHIP: | RANGE: | SECTION: | SERVICES PERFORMED: Lithologic Logging & Contractor Supervision |
| LOCATION: Dolan & Russo Rds on N. Side of Dolan Rd. | | DATE BEGUN: 11/30. | DATE RELEASED: |
| ELEVATION: | TOTAL DEPTH: 600 | INTERVAL LOGGED: | FOOTAGE: |
| SPUD DATE: 11/30/94 | FINAL DATE: 12/5/94 | REMARKS: | |
| DRILLING COMPANY: Redfearn Drilling | | | |
| PUSHER: Rick Redfearn | | | |

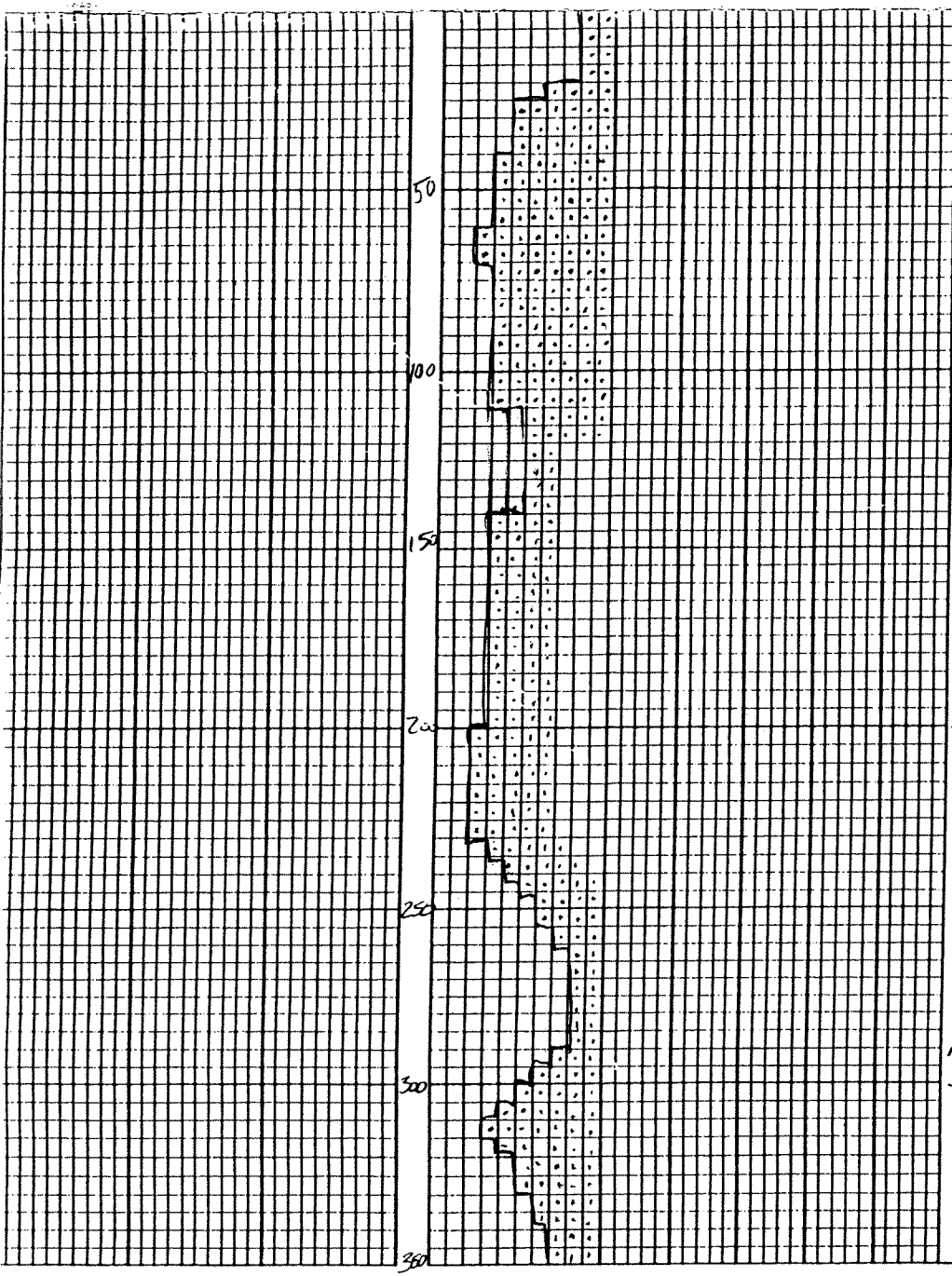
| HOLE SIZE | | |
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| CASING RECORD | | |
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| ABBREVIATIONS | | | |
|---|---|---|---|
| CO | CIRCULATE OUT | PR | POOR RETURNS |
| LAT | LOGGED AFTER TRIP | SC | SAND CONTENT (%) |
| NB | NEW BIT | VIS | VISCOSITY (SECONDS) |
| NCB | NEW CORE BIT | WL | WATER LOSS (CC/30 MIN) |
| NR | NO RETURN | WT | FLUID WEIGHT (LBS/CU.FT.) |
| | | | |

CLAY SILT SAND GRAVEL

| DRILLING RATE (FT/HR) | LITHOLOGY: SAND CONCENTRATION (--- 50 0) | VIS POR: POOR FAIR GOOD | GRAIN-SIZE DISTRIBUTION (Value x 10 = %): COARSE MEDIUM FINE VERY FINE | RIG ACTIVITY MUD ADDITIONS AND PROPERTIES | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|
| | | | | | |




SPUD IN @ 9:00

4 BAGS QUICK-GEL

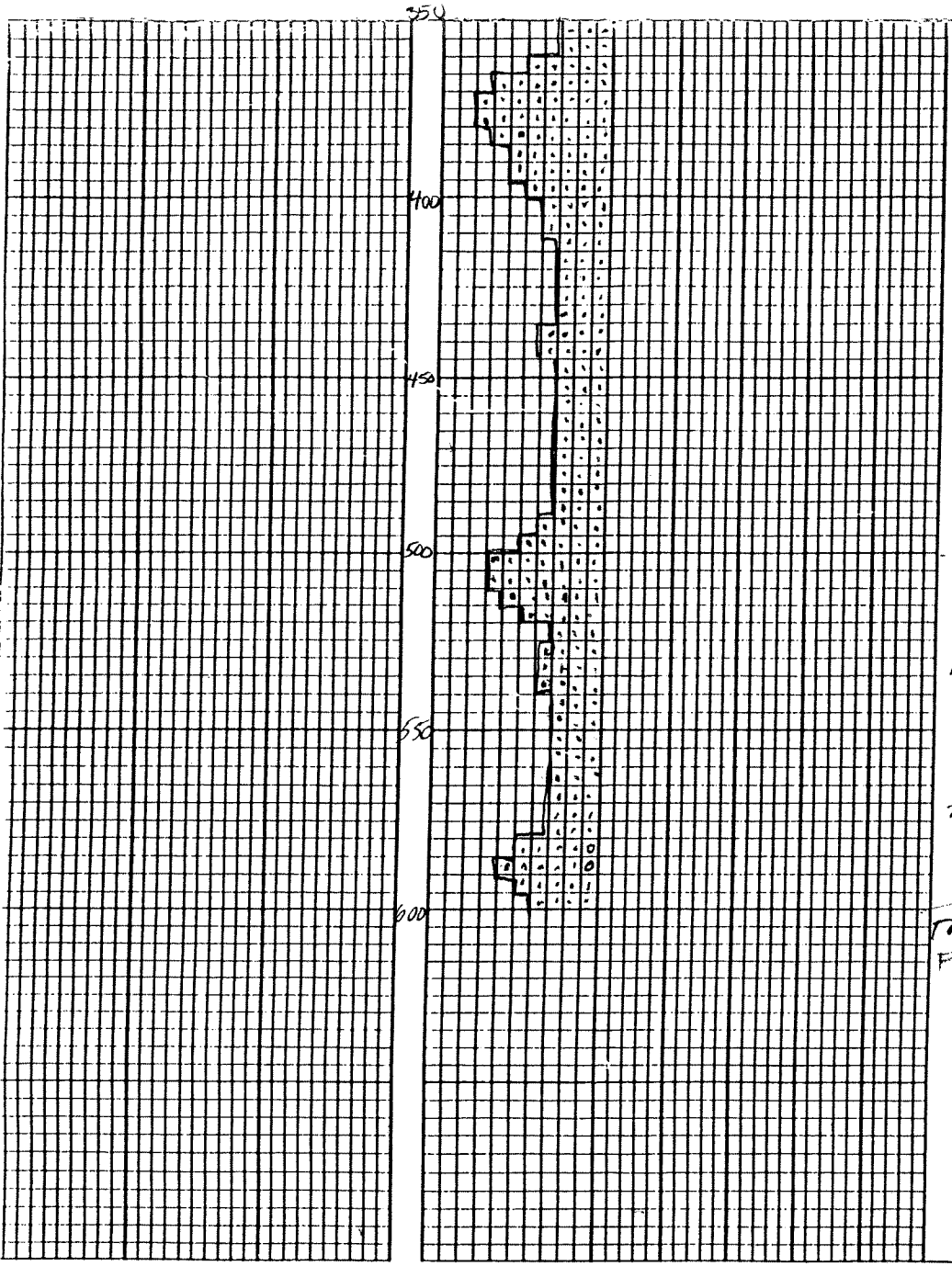
1 BAG QUICK GEL 8:45
1 BAG BENTONITE

9:05

REPAIR SUMP PUMP 9:20

REPAIR CLOGGED MUD PUMP 9:40
RESUME 9:50
955

TOP SOIL
CLAY – LIGHT BROWN
CLAY – A/A
CLAY – GREY WITH SAND STRINGERS FINE TO COARSE SAND
SAND – BROWN GREY STICKY FINE TO MED SAND SOME PEBBLES
SAND – A/A REDDISH BROWN W/CLAY STREAKS.
SAND – A/A INCREASED CLAY
SAND – A/A LESS CLAY
SAND – A/A GREY BROWN
SAND – A/A LESS CLAY
SAND – A/A STICKY W/CLAY STREAKS
CLAY – GREY BROWN W/SAND STRINGERS
CLAY – A/A BLUE & GREY BROWN
CLAY – A/A BLUE
CLAY – A/A LIGHT BROWN, SANDY
SAND – QUARTZ (AND DIATOMACEOUS CLASTS) W/CLAY STREAKS
CLAY – LIGHT BROWN W/SAND STRINGERS
CLAY – A/A W/SOME INDURATED BLUE STREAKS AND RED SANDY CLAY




10:50

12:05

RIG DOWN 12:10-
KELLY BROKE 15:05
EC Make up $H_2O$ ≃ 905 us/km

TRIP OUT FOR ROCK BIT 15:50-
16:30

TRIP OUT FOR E LOG 18:15

CLAY - A/A

SAND - RED W/CLAY STREAKS SOME VERY FINE INDURATED SAND STRINGERS

SAND - A/A STICKY VERY FINE TO FINE

CLAY - LIGHT BROWN, SANDY, SOME INDURATED BLUE CLAY STREAKS

CLAY - A/A NO BLUE CLAY STREAKS SOME WHITE (DIATOMACEOUS?) MUD STREAKS

CLAY - LIGHT BROWN, W/INDURATED BLUE CLAY STREAKS & INDURATED RED SAND STRINGERS

SAND - INDURATED RED W/LIGHT BROWN INDURATED CLAY STREAKS

CLAY - LIGHT BROWN & BLUE INDURATED W/SAND STRINGERS

CLAY - A/A

CLAY - A/A W/GRAVEL (INDURATED BLUE CLAY)

CLAY - LESS GRAVEL

# APPENDIX B
# NORTH COUNTY WATER WELL DATABASE

# North Monterey County - Well Construction Summary

*25-Apr-95*

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-01G50 | PRUNEDALE | 10/10/50 | C.F. DOUGHERTY | 8 | 228 | 249 | 258 | DOM; | |
| 12S/02E-01T50 | PRUNEDALE | 11/20/71 | ASH & SONS | 6 | 300 | 336 | 355 | DOM; | |
| 12S/02E-03H51 | | | | | | | | | |
| 12S/02E-03T50 | PRUNEDALE | 7/10/75 | ALSOP & SON | 8 | 312 | 352 | 360 | DOM; | |
| 12S/02E-09H50 | PAJARO-SPRINGFIELD | 7/15/77 | MAGGIORA BROS | 26 | 150 | 430 | 450 | IRR; | |
| 12S/02E-09Q50 | PAJARO-SPRINGFIELD | | DUER | | | | 300 | | |
| 12S/02E-09R50 | PAJARO-SPRINGFIELD | | | 14 | | | | IND | |
| 12S/02E-09T50 | PAJARO-SPRINGFIELD | 8/2/78 | MAGGIORA BROS | 10 | 170 | 210 | 220 | IRR; | |
| 12S/02E-10A01 | PAJARO-SPRINGFIELD | | LITCHFIELD | | 130 | 154 | 165 | | |
| 12S/02E-10A50 | PAJARO-SPRINGFIELD | 6/29/77 | CLIFFORD PUMP & WELL | 16 | 135 | 185 | 225 | IRR | |
| 12S/02E-10B50 | PAJARO-SPRINGFIELD | 4/12/89 | C.F. DOUGHERTY | 16 | 220 | 360 | 400 | IRR; | |
| 12S/02E-10D01 | PAJARO-SPRINGFIELD | 1/20/53 | WESTERN DRILLING | 14 | 120 | 312 | 424 | IRR; | |
| 12S/02E-10E50 | PAJARO-SPRINGFIELD | 5/9/86 | ARTHUR & ORUM | 14 | 430 | 595 | 600 | MUN; | |
| 12S/02E-10F50 | PAJARO-SPRINGFIELD | 7/20/77 | MAGGIORA BROS | 20 | 182 | 335 | 350 | | |
| 12S/02E-10F51 | PAJARO-SPRINGFIELD | 3/19/86 | ARTHUR & ORUM | | | | 600 | | HOLE; |
| 12S/02E-10G50 | PAJARO-SPRINGFIELD | 8/3/84 | MAGGIORA BROS | 16 | 370 | 580 | 620 | DOM;IRR; | |
| 12S/02E-10J02 | PAJARO-SPRINGFIELD | 6/1/38 | LITCHFIELD | 14 | 79 | 155 | 186 | IRR; | |
| 12S/02E-10K50 | PAJARO-SPRINGFIELD | 10/9/78 | CULLUM SYSTEMS | 8 | 60 | 200 | 220 | IRR; | |
| 12S/02E-10L50 | PAJARO-SPRINGFIELD | 4/9/71 | FREEDOM GEN REPAIR & PUMP | | | | 382 | | |
| 12S/02E-10L51 | PAJARO-SPRINGFIELD | 9/3/82 | C.F. DOUGHERTY | 10 | 116 | 156 | 164 | IRR; | |
| 12S/02E-10P50 | PAJARO-SPRINGFIELD | 5/2/86 | ARTHUR & ORUM | 14 | 450 | 595 | 600 | MUN; | |
| 12S/02E-10P51 | PAJARO-SPRINGFIELD | 3/17/86 | ARTHUR & ORUM | | | | 1200 | | HOLE; |
| 12S/02E-10T50 | PAJARO-SPRINGFIELD | 4/12/66 | MURPHY | 14 | 144 | 204 | 212 | | |
| 12S/02E-10T51 | PAJARO-SPRINGFIELD | 1/30/75 | FREEDOM GEN REPAIR & PUMP | 12 | 136 | 156 | 163 | IRR; | |
| 12S/02E-11E04 | PAJARO-SPRINGFIELD | | | 12 | | | | IRR; | |
| 12S/02E-11E50 | PAJARO-SPRINGFIELD | 4/9/90 | MAGGIORA BROS | 16 | 400 | 560 | 600 | IRR; | |
| 12S/02E-11E51 | PAJARO-SPRINGFIELD | 6/24/75 | SALINAS PUMP CO | 12 | 52 | 72 | 170 | IRR; | |
| 12S/02E-11F01 | PAJARO-SPRINGFIELD | 5/1/52 | LITCHFIELD | 14 | 124 | 162 | 168 | | |
| 12S/02E-11J01 | PAJARO-SPRINGFIELD | 8/9/86 | MAGGIORA BROS | 8 | 200 | 350 | 385 | DOM; | |
| 12S/02E-11K50 | PAJARO-SPRINGFIELD | 3/28/88 | MAGGIORA BROS | 16 | 160 | 260 | 300 | IRR; | |
| 12S/02E-11N50 | PAJARO-SPRINGFIELD | 11/17/78 | CLIFFORD PUMP & WELL | 16 | 70 | 160 | 241 | IRR | |
| 12S/02E-11P01 | PAJARO-SPRINGFIELD | 1/1/48 | | 14 | 114 | 145 | 160 | | ABAN; |
| 12S/02E-11T50 | PAJARO-SPRINGFIELD | 10/3/63 | C.F. DOUGHERTY | 14 | | 40 | 48 | DOM; | |
| 12S/02E-11T51 | PAJARO-SPRINGFIELD | 7/8/74 | MAGGIORA BROS | | | | 180 | | |
| 12S/02E-11T52 | PAJARO-SPRINGFIELD | 11/10/86 | MAGGIORA BROS | 16 | 330 | 430 | 460 | IRR; | |
| 12S/02E-11T53 | PAJARO-SPRINGFIELD | 11/18/78 | CLIFFORD PUMP & WELL | 16 | 95 | 145 | 197 | IRR | |
| 12S/02E-11T54 | PAJARO-SPRINGFIELD | 3/4/76 | CLIFFORD PUMP & WELL | 12 | 114 | 212 | 244 | IRR | |
| 12S/02E-12E01 | PAJARO-SPRINGFIELD | 5/8/69 | LITCHFIELD | | 130 | 168 | 168 | IRR; | |
| 12S/02E-12J01 | PAJARO-SPRINGFIELD | 5/1/47 | LITCHFIELD | 10 | 123 | 162 | 167 | IRR; | |
| 12S/02E-12K01 | PAJARO-SPRINGFIELD | 7/1/32 | LITCHFIELD | 10 | 125 | 175 | 180 | IRR; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-12K50 | PAJARO-SPRINGFIELD | 4/20/85 | MAGGIORA BROS | 16 | 320 | 455 | 485 | IRR; | |
| 12S/02E-12M01 | PAJARO-SPRINGFIELD | 4/9/81 | MAGGIORA BROS | 16 | 100 | 170 | 200 | DOM; | |
| 12S/02E-12T50 | PAJARO-SPRINGFIELD | 6/9/61 | MURPHY | 10 | 104 | 152 | 156 | DOM; | |
| 12S/02E-12T51 | PAJARO-SPRINGFIELD | 6/28/71 | CLIFFORD PUMP & WELL | 8 | 134 | 166 | 174 | DOM | |
| 12S/02E-12T52 | PAJARO-SPRINGFIELD | 3/7/77 | CLIFFORD PUMP & WELL | 16 | 88 | 158 | 296 | IRR | |
| 12S/02E-13A01 | PRUNEDALE | | | | 90 | 164 | 164 | | |
| 12S/02E-13A50 | PAJARO-SPRINGFIELD | | | | 111 | 134 | 164 | | |
| 12S/02E-13A51 | PRUNEDALE | 9/9/84 | ROBINETT & SONS | 8 | 284 | 444 | 444 | DOM; | |
| 12S/02E-13C01 | PRUNEDALE | 12/5/77 | ROBINETT | 8 | 200 | 315 | 315 | DOM; | |
| 12S/02E-13C50 | PAJARO-SPRINGFIELD | | ROBINETT & SONS | | 200 | 315 | 315 | DOM; | |
| 12S/02E-13D01 | PRUNEDALE | 8/4/67 | C.F. DOUGHERTY | 12 | 194 | 274 | 284 | DOM; | |
| 12S/02E-13F50 | PRUNEDALE | 2/26/71 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 12S/02E-13H50 | PRUNEDALE | 7/24/84 | C.F. DOUGHERTY | 10 | 136 | 188 | 196 | DOM; | |
| 12S/02E-13N01 | PRUNEDALE | 12/1/60 | DUER | 12 | 260 | 320 | 320 | | |
| 12S/02E-13N02 | PRUNEDALE | 5/25/65 | C.F. DOUGHERTY | 8 | 316 | 356 | 368 | DOM; | |
| 12S/02E-13N03 | PRUNEDALE | 5/10/68 | C.F. DOUGHERTY | 8 | 224 | 264 | 272 | DOM; | |
| 12S/02E-13Q50 | PAJARO-SPRINGFIELD | 5/29/92 | ROBINETT & SONS | 8 | 400 | 510 | 510 | DOM; | |
| 12S/02E-13R50 | PRUNEDALE | 10/13/77 | ASH & SONS | 7 | 318 | 350 | 350 | DOM; | |
| 12S/02E-13T50 | PRUNEDALE | 3/8/81 | ASH & SONS | 5 | 257 | 307 | 320 | DOM; | |
| 12S/02E-13T51 | PRUNEDALE | 1/9/73 | ASH & SONS | 7 | 160 | 196 | 196 | DOM; | |
| 12S/02E-13T52 | PAJARO-SPRINGFIELD | 5/31/71 | CLIFFORD PUMP & WELL | 10 | 260 | 320 | 334 | DOM/IRR | |
| 12S/02E-13T53 | PRUNEDALE | 5/5/60 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 12S/02E-13T54 | PRUNEDALE | 8/18/70 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 12S/02E-13T55 | PRUNEDALE | 9/9/70 | CLIFFORD PUMP & WELL | 14 | 180 | 228 | 228 | IRR | |
| 12S/02E-13T56 | PAJARO-SPRINGFIELD | 8/15/73 | C.F. DOUGHERTY | 12 | 316 | 376 | 388 | DOM; | |
| 12S/02E-14A50 | PRUNEDALE | 5/27/82 | C.F. DOUGHERTY | 8 | 228 | 268 | 276 | DOM; | |
| 12S/02E-14B50 | PRUNEDALE | 1/6/84 | MELVILLE & SON | 10 | 143 | 294 | 300 | IRR; | |
| 12S/02E-14E50 | PAJARO-SPRINGFIELD | 8/31/89 | MAGGIORA BROS | 6 | 110 | 240 | 300 | DOM; | |
| 12S/02E-14F50 | PAJARO-SPRINGFIELD | 1/5/73 | FREEDOM GEN REPAIR & PUMP | | | | 260 | | |
| 12S/02E-14F51 | PAJARO-SPRINGFIELD | 1/5/73 | FREEDOM GEN REPAIR & PUMP | 8 | 164 | 204 | 237 | DOM | |
| 12S/02E-14G50 | PAJARO-SPRINGFIELD | 8/22/89 | ASH & SONS | 5 | 260 | 300 | 310 | DOM; | |
| 12S/02E-14G51 | PRUNEDALE | 4/15/80 | MAGGIORA BROS | 12 | 390 | 450 | 485 | DOM; | |
| 12S/02E-14G52 | PAJARO-SPRINGFIELD | 1/10/89 | ASH & SONS | 6 | 360 | 400 | 420 | DOM; | |
| 12S/02E-14H01 | PRUNEDALE | 6/27/83 | MAGGIORA BROS | 8 | 250 | 310 | 320 | DOM; | |
| 12S/02E-14H50 | PAJARO-SPRINGFIELD | 1/27/92 | DOUGHERTY PUMP & DRILLING | 5 | 220 | 300 | 300 | DOM; | |
| 12S/02E-14L50 | PAJARO-SPRINGFIELD | 2/6/92 | ASH & SONS | 5 | 260 | 300 | 300 | DOM; | |
| 12S/02E-14N01 | PRUNEDALE | 8/26/60 | FREEDOM GEN REPAIR & PUMP | 12 | 190 | 270 | 274 | IRR; | |
| 12S/02E-14N02 | PRUNEDALE | 8/4/67 | FREEDOM GEN REPAIR & PUMP | 8 | 120 | 150 | 169 | DOM; | |
| 12S/02E-14N03 | PRUNEDALE | | | | | | | DOM; | |
| 12S/02E-14N50 | PAJARO-SPRINGFIELD | 1/18/90 | ASH & SONS | 5 | 335 | 375 | 380 | DOM; | |
| 12S/02E-14N51 | PAJARO-SPRINGFIELD | 1/10/90 | ASH & SONS | 5 | 265 | 305 | 320 | DOM; | |
| 12S/02E-14P50 | PRUNEDALE | 4/28/82 | MAGGIORA BROS | 6 | 175 | 245 | 265 | DOM; | |
| 12S/02E-14P51 | PRUNEDALE | 12/9/78 | CULLUM SYSTEMS | 8 | 180 | 280 | 300 | DOM;IRR; | |
| 12S/02E-14P52 | PAJARO-SPRINGFIELD | 11/13/89 | ASH & SONS | 5 | 280 | 320 | 380 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-14Q01 | PRUNEDALE | 1/1/56 | DUER | 10 | 180 | 220 | 220 | IRR; | |
| 12S/02E-14Q50 | PRUNEDALE | 7/26/74 | MAGGIORA BROS | 13 | 365 | 395 | 430 | DOM; | |
| 12S/02E-14Q51 | PRUNEDALE | 4/24/84 | ASH & SONS | 5 | 316 | 356 | 365 | DOM; | |
| 12S/02E-14Q52 | PRUNEDALE | 12/30/88 | ASH & SONS | 5 | 200 | 240 | 242 | DOM; | |
| 12S/02E-14Q53 | PRUNEDALE | 3/29/86 | ASH & SONS | 5 | 270 | 310 | 340 | DOM; | |
| 12S/02E-14Q54 | PRUNEDALE | 7/2/91 | ASH & SONS | | 220 | 260 | 260 | DOM | |
| 12S/02E-14Q55 | PAJARO-SPRINGFIELD | 12/2/92 | ASH & SONS | 5 | 200 | 240 | 240 | DOM | |
| 12S/02E-14Q56 | PAJARO-SPRINGFIELD | 12/17/93 | ASH & SONS | 5 | 420 | 460 | 460 | DOM | |
| 12S/02E-14Q57 | PRUNEDALE | 1/26/94 | ASH & SONS | | | | 210 | | DESTROYED |
| 12S/02E-14R50 | PAJARO-SPRINGFIELD | 8/16/91 | ASH & SONS | 5 | 284 | 324 | 324 | DOM | |
| 12S/02E-14T50 | PRUNEDALE | 12/13/71 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 12S/02E-14T51 | PRUNEDALE | 4/2/70 | C.F. DOUGHERTY | 8 | 132 | 172 | 180 | DOM; | |
| 12S/02E-14T52 | PAJARO-SPRINGFIELD | 11/5/76 | FREEDOM GEN REPAIR & PUMP | 8 | 228 | 260 | 260 | | |
| 12S/02E-14T53 | PRUNEDALE | 5/28/77 | MAGGIORA BROS | 13 | 250 | 300 | 340 | DOM; | |
| 12S/02E-14T54 | PRUNEDALE | 4/26/66 | ASH & SONS | 6 | 244 | 264 | 306 | DOM; | |
| 12S/02E-14T55 | PRUNEDALE | 8/13/69 | C.F. DOUGHERTY | 8 | 132 | 172 | 180 | DOM; | |
| 12S/02E-14T56 | PRUNEDALE | 3/18/76 | ASH & SONS | 7 | 138 | 170 | 185 | DOM; | |
| 12S/02E-14T57 | PRUNEDALE | 7/1/69 | C.F. DOUGHERTY | 8 | 120 | 160 | 168 | DOM; | |
| 12S/02E-14T58 | PRUNEDALE | 2/12/80 | ASH & SONS | 6 | 138 | 170 | 180 | DOM; | |
| 12S/02E-14T59 | PRUNEDALE | 6/2/77 | MAGGIORA BROS | 6 | 240 | 290 | 340 | DOM; | |
| 12S/02E-14T60 | PRUNEDALE | 1/7/79 | ASH & SONS | 7 | 320 | 350 | 372 | DOM; | |
| 12S/02E-14T61 | PRUNEDALE | 10/4/66 | FREEDOM GEN REPAIR & PUMP | 8 | 100 | 148 | 180 | DOM; | |
| 12S/02E-14T62 | PAJARO-SPRINGFIELD | 10/26/82 | D.B. DRILLING | 6 | 200 | 370 | 370 | DOM; | |
| 12S/02E-15A50 | PAJARO-SPRINGFIELD | 11/3/81 | MAGGIORA BROS | 16 | 110 | 150 | 185 | DOM;IRR; | |
| 12S/02E-15A51 | PAJARO-SPRINGFIELD | 7/30/80 | CLIFFORD PUMP & WELL | 16 | 100 | 160 | 182 | IRR | |
| 12S/02E-15C50 | PAJARO-SPRINGFIELD | 1/9/90 | MAGGIORA BROS | 30 | 320 | 420 | 460 | IRR; | |
| 12S/02E-15D50 | PRUNEDALE | 10/9/72 | ASH & SONS | 7 | 160 | 200 | 210 | DOM;IND; | |
| 12S/02E-15E01 | PAJARO-SPRINGFIELD | 6/8/66 | FREEDOM GEN REPAIR & PUMP | 14 | 90 | 284 | 320 | IRR; | |
| 12S/02E-15J50 | PRUNEDALE | 3/16/81 | C V DRILLING | 5 | 220 | 320 | 340 | DOM; | |
| 12S/02E-15K50 | PAJARO-SPRINGFIELD | 3/15/83 | ASH & SONS | 5 | 120 | 160 | 220 | DOM; | |
| 12S/02E-15K51 | PAJARO-SPRINGFIELD | 10/16/90 | MAGGIORA BROS | 10 | 320 | 400 | 505 | DOM; | |
| 12S/02E-15M50 | PAJARO-SPRINGFIELD | 2/18/85 | C.F. DOUGHERTY | 16 | 138 | 198 | 208 | IRR; | |
| 12S/02E-15M51 | PAJARO-SPRINGFIELD | 6/10/86 | C.F. DOUGHERTY | 10 | 320 | 460 | 480 | IRR; | |
| 12S/02E-15Q01 | PRUNEDALE | 10/26/82 | DB DRILLING CO | 6 | 200 | 270 | 370 | DOM; | |
| 12S/02E-15Q50 | PRUNEDALE | 1/7/87 | C.F. DOUGHERTY | 6 | 163 | 203 | 208 | DOM; | |
| 12S/02E-15R01 | PRUNEDALE | 12/14/77 | MAGGIORA BROS | 8 | 102 | 290 | 300 | DOM; | |
| 12S/02E-15R50 | PRUNEDALE | 11/4/87 | C.F. DOUGHERTY | 6 | 200 | 240 | 240 | DOM; | |
| 12S/02E-15R51 | PRUNEDALE | 12/31/87 | MAGGIORA BROS | 6 | 130 | 190 | 230 | DOM; | |
| 12S/02E-15R52 | PAJARO-SPRINGFIELD | 10/17/89 | SALINAS PUMP CO | | | | 150 | | DES |
| 12S/02E-15R53 | PRUNEDALE | 11/6/87 | C.F. DOUGHERTY | 6 | 160 | 200 | 200 | DOM; | |
| 12S/02E-15R54 | PAJARO-SPRINGFIELD | 8/28/89 | SALINAS PUMP CO | 5 | 140 | 360 | 360 | DOM; | |
| 12S/02E-15R55 | PAJARO-SPRINGFIELD | 5/5/89 | C.F. DOUGHERTY | 5 | 200 | 240 | 240 | DOM; | |
| 12S/02E-15R56 | PRUNEDALE | 2/19/91 | MAGGIORA BROS | 8 | 280 | 400 | 420 | DOM | |
| 12S/02E-15T50 | PRUNEDALE | 5/22/76 | MAGGIORA BROS | 12 | 114 | 134 | 140 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-15T51 | PRUNEDALE | 2/8/63 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 12S/02E-15T52 | PRUNEDALE | 6/10/70 | CLIFFORD PUMP & WELL | 14 | 114 | 194 | 200 | IRR | |
| 12S/02E-15T53 | PRUNEDALE | 6/9/61 | C.F. DOUGHERTY | 10 | 200 | 240 | 248 | DOM; | |
| 12S/02E-15T54 | PRUNEDALE | 8/10/66 | C.F. DOUGHERTY | 8 | 144 | 164 | 172 | DOM; | |
| 12S/02E-15T55 | PRUNEDALE | 8/2/69 | C.F. DOUGHERTY | 8 | 188 | 288 | 236 | DOM; | |
| 12S/02E-15T56 | PRUNEDALE | 1/13/76 | C.F. DOUGHERTY | 8 | 144 | 184 | 192 | DOM; | |
| 12S/02E-15T57 | PAJARO-SPRINGFIELD | 12/5/78 | MAGGIORA BROS | 12 | 100 | 160 | 175 | DOM; | |
| 12S/02E-15T58 | PAJARO-SPRINGFIELD | 8/6/76 | MAGGIORA BROS | 6 | 155 | 190 | 203 | DOM; | |
| 12S/02E-15T61 | PRUNEDALE | 9/26/91 | MAGGIORA BROS | | | | 64 | | DES |
| 12S/02E-15T62 | PAJARO-SPRINGFIELD | | MAGGIORA BROS | 2 | | | 15 | MON | DES |
| 12S/02E-15T64 | PAJARO-SPRINGFIELD | | MAGGIORA BROS | 2 | | | 15 | MON | DES |
| 12S/02E-15T65 | PAJARO-SPRINGFIELD | 11/30/93 | MAGGIORA BROS | | | | 175 | | DESTROYED |
| 12S/02E-16A50 | PAJARO-SPRINGFIELD | 8/18/93 | SB&S DRILLING | 2 | 5 | 15 | 15 | MON | |
| 12S/02E-16A51 | PAJARO-SPRINGFIELD | 8/18/93 | SB&S DRILLING | 2 | 5 | 15 | 15 | MON | |
| 12S/02E-16A52 | PAJARO-SPRINGFIELD | 8/18/93 | SB&S DRILLING | 2 | 5 | 15 | 15 | MON | |
| 12S/02E-16F01 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 12S/02E-16H01 | PAJARO-SPRINGFIELD | 4/1/49 | DUER | 7 | | | 126 | | |
| 12S/02E-16H02 | PAJARO-SPRINGFIELD | 7/1/38 | LITCHFIELD | 12 | 130 | 166 | 177 | IRR; | |
| 12S/02E-16J01 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 12S/02E-16L01 | PAJARO-SPRINGFIELD | 11/20/70 | | | | | | IRR; | |
| 12S/02E-16Q01 | PAJARO-SPRINGFIELD | 5/4/62 | VALLEY PUMP | 12 | 288 | 432 | 700 | IRR; | |
| 12S/02E-16T50 | PAJARO-SPRINGFIELD | 10/4/72 | ASH & SONS | 7 | 40 | 56 | 60 | DOM; | |
| 12S/02E-16T51 | PAJARO-SPRINGFIELD | 6/28/71 | CLIFFORD PUMP & WELL | 10 | 180 | 204 | 204 | IRR | |
| 12S/02E-16T52 | PAJARO-SPRINGFIELD | 12/21/74 | MAGGIORA BROS | 20 | 140 | 190 | 295 | IRR; | |
| 12S/02E-16T53 | PAJARO-SPRINGFIELD | 6/5/75 | MAGGIORA BROS | 20 | 140 | 360 | 340 | IND; | |
| 12S/02E-17R01 | PAJARO-SPRINGFIELD | 1/17/61 | | 20 | | | | IRR; | |
| 12S/02E-19A01 | PAJARO-SPRINGFIELD | 1/17/61 | | 14 | | | | IRR; | DES; |
| 12S/02E-19A02 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 12S/02E-19B01 | PAJARO-SPRINGFIELD | 1/1/20 | | | | | 195 | | |
| 12S/02E-19B02 | PAJARO-SPRINGFIELD | 8/1/65 | | | | | | IRR; | |
| 12S/02E-19E02 | PAJARO-SPRINGFIELD | 1/1/38 | LITCHFIELD | | | | 138 | | |
| 12S/02E-19F50 | PAJARO-SPRINGFIELD | 12/8/88 | EATON | 16 | 390 | 630 | 740 | IRR; | |
| 12S/02E-19F51 | PAJARO-SPRINGFIELD | 12/2/88 | EATON | 16 | 380 | 600 | 614 | IRR; | |
| 12S/02E-19F52 | PAJARO-SPRINGFIELD | 12/8/88 | EATON | 16 | 390 | 630 | 740 | IRR; | |
| 12S/02E-19L01 | PRUNEDALE | 9/1/25 | LITCHFIELD | | | | | | |
| 12S/02E-19M01 | PAJARO-SPRINGFIELD | 10/18/60 | LITCHFIELD | 15 | 145 | 218 | 225 | | |
| 12S/02E-19M50 | PAJARO-SPRINGFIELD | 4/15/75 | SALINAS PUMP CO | 14 | 244 | 388 | 469 | IRR; | |
| 12S/02E-20J50 | PAJARO-SPRINGFIELD | 4/27/79 | MAGGIORA BROS | 12 | 200 | 310 | 330 | IRR; | |
| 12S/02E-20J51 | PAJARO-SPRINGFIELD | 8/25/88 | C.F. DOUGHERTY | | | | 235 | | DES |
| 12S/02E-20K01 | PAJARO-SPRINGFIELD | 10/18/48 | FREEDOM GEN REPAIR & PUMP | 12 | 200 | 290 | 310 | IRR; | |
| 12S/02E-20K02 | PAJARO-SPRINGFIELD | 11/1/49 | FREEDOM GEN REPAIR & PUMP | 12 | 200 | 290 | 310 | IRR; | ABAN; |
| 12S/02E-20N01 | PAJARO-SPRINGFIELD | 10/1/49 | FREEDOM GEN REPAIR & PUMP | 12 | 200 | 290 | 300 | IRR; | ABAN; |
| 12S/02E-20P01 | PAJARO-SPRINGFIELD | 9/27/84 | ASH & SONS | 8 | 425 | 485 | 495 | DOM; | |
| 12S/02E-20T50 | PAJARO-SPRINGFIELD | 10/20/69 | FREEDOM GEN REPAIR & PUMP | 8 | 38 | 68 | 72 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-20T51 | PAJARO-SPRINGFIELD | 6/28/68 | C.F. DOUGHERTY | 12 | 4 | 32 | 36 | DOM; | |
| 12S/02E-20T52 | PAJARO-SPRINGFIELD | 1/22/69 | THE PUMP SHOP | 10 | 240 | 280 | 288 | IND; | |
| 12S/02E-20T53 | PAJARO-SPRINGFIELD | 11/20/71 | FREEDOM GEN REPAIR & PUMP | 8 | 52 | 68 | 72 | DOM; | |
| 12S/02E-21A01 | PAJARO-SPRINGFIELD | | LITCHFIELD | | | | 214 | | |
| 12S/02E-21A02 | PAJARO-SPRINGFIELD | 7/1/51 | LITCHFIELD | | | | 186 | | |
| 12S/02E-21A03 | PAJARO-SPRINGFIELD | 1/1/51 | LITCHFIELD | | 115 | 148 | 180 | | |
| 12S/02E-21F01 | PAJARO-SPRINGFIELD | 1/1/47 | | 8 | 48 | 0 | 320 | DOM; | |
| 12S/02E-21H | PRUNEDALE | | | | | 384 | 396 | | |
| 12S/02E-21H01 | PRUNEDALE | 6/14/68 | VALLEY PUMP | 12 | 108 | 384 | 396 | DOM; | |
| 12S/02E-21H50 | PAJARO-SPRINGFIELD | 6/27/87 | C.F. DOUGHERTY | 6 | 190 | 250 | 260 | DOM; | |
| 12S/02E-21H51 | PAJARO-SPRINGFIELD | 6/14/68 | VALLEY PUMP | 12 | 108 | 384 | 453 | DOM; | |
| 12S/02E-21H52 | PAJARO-SPRINGFIELD | 8/16/89 | MAGGIORA BROS | 10 | 294 | 460 | 525 | MUN; | |
| 12S/02E-21J50 | PAJARO-SPRINGFIELD | 9/26/67 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 12S/02E-21L01 | PAJARO-SPRINGFIELD | 5/6/57 | | | | | 480 | IRR; | ABAN; |
| 12S/02E-21L50 | PAJARO-SPRINGFIELD | 5/19/90 | SALINAS PUMP CO | | | | 78 | | DES |
| 12S/02E-21L51 | PAJARO-SPRINGFIELD | 10/17/67 | FREEDOM GEN REPAIR & PUMP | 10 | 54 | 70 | 70 | DOM; | |
| 12S/02E-21M01 | PAJARO-SPRINGFIELD | | | 8 | 200 | 244 | 252 | DOM; | |
| 12S/02E-21M50 | PAJARO-SPRINGFIELD | 5/19/90 | SALINAS PUMP CO | | | | 53 | | DES |
| 12S/02E-21M51 | PAJARO-SPRINGFIELD | 5/19/90 | SALINAS PUMP CO | | | | 220 | | DES |
| 12S/02E-21M52 | PAJARO-SPRINGFIELD | 5/19/90 | SALINAS PUMP CO | | | | 114 | | DES |
| 12S/02E-21M53 | PAJARO-SPRINGFIELD | 9/29/89 | SALINAS PUMP CO | | | | 275 | | DES |
| 12S/02E-21M54 | PAJARO-SPRINGFIELD | 9/29/89 | SALINAS PUMP CO | | | | 25 | | DES |
| 12S/02E-21M55 | PAJARO-SPRINGFIELD | 5/19/90 | SALINAS PUMP CO | | | | 68 | | DES |
| 12S/02E-21M56 | PAJARO-SPRINGFIELD | 8/12/76 | MAGGIORA BROS | 12 | 233 | 253 | 263 | DOM; | |
| 12S/02E-21M57 | PAJARO-SPRINGFIELD | 9/29/89 | SALINAS PUMP CO | | | | 90 | | DES |
| 12S/02E-21M58 | PAJARO-SPRINGFIELD | 9/29/89 | SALINAS PUMP CO | | | | 300 | | DES |
| 12S/02E-21M59 | PAJARO-SPRINGFIELD | 11/24/82 | FREEDOM GEN REPAIR & PUMP | 6 | 240 | 260 | 260 | DOM; | |
| 12S/02E-21M60 | PAJARO-SPRINGFIELD | 2/10/88 | FREEDOM GEN REPAIR & PUMP | 8 | 228 | 248 | 248 | DOM; | |
| 12S/02E-21N50 | PAJARO-SPRINGFIELD | 5/19/90 | SALINAS PUMP CO | | | | 60 | | DES |
| 12S/02E-21N51 | PAJARO-SPRINGFIELD | 1/21/83 | FREEDOM GEN REPAIR & PUMP | 6 | 244 | 264 | 269 | DOM; | |
| 12S/02E-21N52 | PAJARO-SPRINGFIELD | 4/8/83 | FREEDOM GEN REPAIR & PUMP | 6 | 242 | 262 | 262 | DOM; | |
| 12S/02E-21P50 | PAJARO-SPRINGFIELD | 5/6/78 | FREEDOM GEN REPAIR & PUMP | 8 | 219 | 251 | 270 | DOM; | |
| 12S/02E-21P51 | PAJARO-SPRINGFIELD | 6/2/71 | FREEDOM GEN REPAIR & PUMP | 8 | 48 | 60 | 80 | DOM; | |
| 12S/02E-21Q50 | PAJARO-SPRINGFIELD | 3/30/90 | ASH & SONS | 5 | 275 | 315 | 321 | DOM; | |
| 12S/02E-21Q51 | PAJARO-SPRINGFIELD | 10/22/87 | ASH & SONS | 5 | 180 | 220 | 220 | DOM; | |
| 12S/02E-21R50 | PAJARO-SPRINGFIELD | 9/30/83 | ASH & SONS | 5 | 160 | 200 | 200 | DOM; | |
| 12S/02E-21R51 | PAJARO-SPRINGFIELD | 1/11/85 | MAGGIORA BROS | 6 | 95 | 135 | 145 | DOM; | |
| 12S/02E-21R52 | PAJARO-SPRINGFIELD | 10/7/77 | C.F. DOUGHERTY | 10 | 120 | 160 | 168 | DOM; | |
| 12S/02E-21T50 | PAJARO-SPRINGFIELD | 11/24/78 | MAGGIORA BROS | 12 | 170 | 220 | 240 | DOM; | |
| 12S/02E-21T51 | PAJARO-SPRINGFIELD | 6/28/85 | MELVILLE & SON | 8 | 180 | 320 | 320 | DOM; | |
| 12S/02E-21T52 | PAJARO-SPRINGFIELD | 11/15/78 | MAGGIORA BROS | 12 | 155 | 185 | 195 | DOM; | |
| 12S/02E-21T53 | PAJARO-SPRINGFIELD | 3/15/65 | C.F. DOUGHERTY | 8 | 120 | 160 | 168 | DOM; | |
| 12S/02E-21T54 | PAJARO-SPRINGFIELD | 10/24/75 | SALINAS PUMP CO | 12 | 136 | 184 | 192 | IRR; | |
| 12S/02E-21T55 | PRUNEDALE | 8/1/79 | SALINAS PUMP CO | 12 | 187 | 316 | 320 | IND; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-21T56 | PAJARO-SPRINGFIELD | 11/26/69 | C.F. DOUGHERTY | 8 | 108 | 148 | 156 | DOM; | |
| 12S/02E-21T57 | PAJARO-SPRINGFIELD | 11/6/71 | FREEDOM GEN REPAIR & PUMP | 8 | 66 | 72 | 72 | DOM; | |
| 12S/02E-21T58 | PAJARO-SPRINGFIELD | 8/17/76 | MAGGIORA BROS | 13 | 74 | 94 | 204 | DOM; | |
| 12S/02E-21T59 | PAJARO-SPRINGFIELD | 2/25/75 | FREEDOM GEN REPAIR & PUMP | 8 | 88 | 104 | 104 | DOM; | |
| 12S/02E-21T60 | PRUNEDALE | 12/30/81 | FREEDOM GEN REPAIR & PUMP | 6 | 223 | 238 | 250 | DOM; | |
| 12S/02E-21T61 | PAJARO-SPRINGFIELD | 6/17/66 | FREEDOM GEN REPAIR & PUMP | 6 | 98 | 122 | 122 | DOM; | |
| 12S/02E-21T62 | PAJARO-SPRINGFIELD | | ROBINETT & SONS | 6 | 192 | 292 | 292 | DOM; | |
| 12S/02E-21T63 | PAJARO-SPRINGFIELD | 11/26/71 | C.F. DOUGHERTY | 8 | 108 | 148 | 156 | DOM; | |
| 12S/02E-21T64 | PAJARO-SPRINGFIELD | 9/23/69 | FREEDOM GEN REPAIR & PUMP | 8 | 60 | 80 | 82 | DOM; | |
| 12S/02E-21T65 | PAJARO-SPRINGFIELD | 3/1/67 | FREEDOM GEN REPAIR & PUMP | 8 | 244 | 252 | 256 | DOM; | |
| 12S/02E-21T66 | PAJARO-SPRINGFIELD | 5/19/76 | CLIFFORD PUMP & WELL | 6 | 154 | 184 | 256 | DOM | |
| 12S/02E-21T67 | PAJARO-SPRINGFIELD | 8/11/75 | MAGGIORA BROS | 16 | 220 | 290 | 295 | IRR; | |
| 12S/02E-21T68 | PAJARO-SPRINGFIELD | 6/26/73 | C.F. DOUGHERTY | 8 | 180 | 220 | 228 | DOM; | |
| 12S/02E-21T69 | PAJARO-SPRINGFIELD | 4/18/77 | MAGGIORA BROS | 26 | 130 | 440 | 460 | IRR; | |
| 12S/02E-21T70 | PAJARO-SPRINGFIELD | 1/31/77 | MAGGIORA BROS | 12 | 109 | 129 | 140 | DOM; | |
| 12S/02E-21T71 | PAJARO-SPRINGFIELD | 9/30/68 | FREEDOM GEN REPAIR & PUMP | 8 | 56 | 76 | 80 | DOM; | |
| 12S/02E-21T72 | PAJARO-SPRINGFIELD | 5/18/71 | FREEDOM GEN REPAIR & PUMP | 8 | 56 | 72 | 72 | IRR; | |
| 12S/02E-21T73 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 12S/02E-21T74 | PAJARO-SPRINGFIELD | 8/17/83 | FREEDOM GEN REPAIR & PUMP | 6 | 214 | 234 | 234 | DOM | DESTROYED |
| 12S/02E-21T75 | PAJARO-SPRINGFIELD | 9/24/72 | MURPHY PUMP & SUPPLY CO | 8 | 260 | 300 | 300 | DOM/IRR | DESTROYED |
| 12S/02E-22B01 | PRUNEDALE | 11/2/71 | FREEDOM GEN REPAIR & PUMP | 8 | 96 | 112 | 129 | DOM; | |
| 12S/02E-22B50 | PRUNEDALE | 1/9/85 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 12S/02E-22L50 | PAJARO-SPRINGFIELD | | | 12 | 180 | 200 | 280 | DOM; | |
| 12S/02E-22M01 | PAJARO-SPRINGFIELD | | | 6 | 154 | 194 | 256 | DOM; | |
| 12S/02E-22M50 | PAJARO-SPRINGFIELD | 11/7/77 | ASH & SONS | 6 | 91 | 111 | 111 | DOM; | |
| 12S/02E-22Q50 | PRUNEDALE | 9/12/86 | MAGGIORA BROS | 12 | 290 | 500 | 600 | MUN; | |
| 12S/02E-22T50 | PRUNEDALE | 12/8/61 | C.F. DOUGHERTY | 8 | 108 | 148 | 156 | DOM; | |
| 12S/02E-22T51 | PRUNEDALE | 1/11/54 | C.F. DOUGHERTY | 10 | 145 | 177 | 181 | DOM; | |
| 12S/02E-22T52 | PRUNEDALE | 8/19/76 | MAGGIORA BROS | 12 | 115 | 165 | 200 | DOM; | |
| 12S/02E-22T53 | PRUNEDALE | 12/22/78 | C.F. DOUGHERTY | 8 | 144 | 184 | 192 | DOM; | |
| 12S/02E-22T54 | PRUNEDALE | 6/3/72 | ASH & SONS | 6 | 220 | 256 | 265 | DOM; | |
| 12S/02E-22T55 | PRUNEDALE | 10/20/72 | C.F. DOUGHERTY | 8 | 108 | 140 | 148 | IRR; | |
| 12S/02E-22T56 | PRUNEDALE | 6/4/72 | ASH & SONS | 6 | 116 | 152 | 165 | DOM; | |
| 12S/02E-22T57 | PRUNEDALE | 4/9/76 | CLIFFORD PUMP & WELL | 6 | 165 | 185 | 208 | DOM | |
| 12S/02E-23K01 | PRUNEDALE | 12/19/49 | C.F. DOUGHERTY | 8 | 261 | 282 | 291 | DOM; | |
| 12S/02E-23L50 | PAJARO-SPRINGFIELD | 7/19/88 | ASH & SONS | 8 | 350 | 370 | 420 | DOM; | |
| 12S/02E-23P50 | PRUNEDALE | 3/4/86 | ASH & SONS | 8 | 250 | 310 | 330 | IRR; | |
| 12S/02E-23P51 | PRUNEDALE | 11/30/83 | ASH & SONS | 8 | | | 260 | IRR; | |
| 12S/02E-23P52 | PAJARO-SPRINGFIELD | 7/23/88 | ASH & SONS | 10 | 345 | 365 | 420 | DOM; | |
| 12S/02E-23P53 | PAJARO-SPRINGFIELD | 7/23/88 | ASH & SONS | 8 | 290 | 310 | 360 | IRR; | |
| 12S/02E-23Q50 | PRUNEDALE | 1/24/50 | C.F. DOUGHERTY | 8 | 249 | 270 | 279 | DOM; | |
| 12S/02E-23R01 | PRUNEDALE | 10/15/49 | C.F. DOUGHERTY | 8 | 186 | 207 | 216 | | |
| 12S/02E-23T50 | PRUNEDALE | 6/27/74 | C.F. DOUGHERTY | 8 | 228 | 268 | 276 | DOM; | |
| 12S/02E-23T51 | PRUNEDALE | 5/20/85 | C.F. DOUGHERTY | 8 | 190 | 232 | 240 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-23T52 | PRUNEDALE | 7/6/62 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 12S/02E-23T53 | PRUNEDALE | 1/30/75 | ROBINETT & SONS | 6 | 173 | 273 | 273 | IRR; | |
| 12S/02E-23T54 | PRUNEDALE | 11/2/53 | J B BROOKS DRILLING | 12 | 338 | 440 | 440 | IRR; | |
| 12S/02E-24A01 | PRUNEDALE | 10/21/78 | ASH & SONS | 8 | 263 | 295 | 307 | PRIVATE | |
| 12S/02E-24A50 | PRUNEDALE | 2/13/91 | SALINAS PUMP CO | 5 | 240 | 400 | 400 | DOM | |
| 12S/02E-24B50 | PAJARO-SPRINGFIELD | 3/24/87 | EMCON | 5 | 110 | 140 | 140 | MON | |
| 12S/02E-24B51 | PAJARO-SPRINGFIELD | 3/25/87 | EMCON | 5 | 150 | 190 | 190 | MON | |
| 12S/02E-24C50 | PAJARO-SPRINGFIELD | 4/30/87 | EMCON | 5 | 150 | 210 | 210 | MON | |
| 12S/02E-24C51 | PAJARO-SPRINGFIELD | 3/23/87 | EMCON | 5 | 100 | 150 | 216 | MON | |
| 12S/02E-24H50 | PRUNEDALE | 11/18/86 | C.F. DOUGHERTY | 6 | 240 | 280 | 288 | DOM; | |
| 12S/02E-24J50 | PRUNEDALE | 2/5/81 | ASH & SONS | 5 | 165 | 195 | 205 | DOM; | |
| 12S/02E-24J51 | PRUNEDALE | 4/3/80 | ASH & SONS | 5 | 214 | 254 | 265 | DOM; | |
| 12S/02E-24Q01 | PRUNEDALE | 9/26/53 | C.F. DOUGHERTY | 12 | 212 | 252 | 260 | DOM; | |
| 12S/02E-24Q02 | PRUNEDALE | 4/16/73 | DOUGHERTY PUMP & DRILLING | 8 | 196 | 236 | 244 | DOM; | |
| 12S/02E-24Q50 | PRUNEDALE | 1/27/78 | MAGGIORA BROS | 16 | 220 | 340 | 355 | DOM; | |
| 12S/02E-24R50 | PRUNEDALE | 9/19/86 | ASH & SONS | 8 | 200 | 260 | 285 | DOM; | |
| 12S/02E-24R51 | PAJARO-SPRINGFIELD | 12/1/89 | C.F. DOUGHERTY | 5 | 300 | 360 | 360 | DOM; | |
| 12S/02E-24T50 | PRUNEDALE | 12/8/65 | ASH & SONS | 6 | 190 | 256 | 290 | DOM; | |
| 12S/02E-24T51 | PRUNEDALE | 7/18/71 | CLIFFORD PUMP & WELL | 10 | 180 | 220 | 220 | DOM | |
| 12S/02E-24T52 | PRUNEDALE | 10/21/71 | CLIFFORD PUMP & WELL | 8 | 144 | 184 | 184 | DOM | |
| 12S/02E-24T53 | PRUNEDALE | 5/9/80 | ASH & SONS | 6 | 146 | 176 | 201 | DOM; | |
| 12S/02E-24T54 | PRUNEDALE | 4/14/61 | C.F. DOUGHERTY | 10 | 148 | 188 | 196 | IRR; | |
| 12S/02E-24T55 | PRUNEDALE | 4/29/76 | C.F. DOUGHERTY | 8 | 136 | 176 | 184 | DOM; | |
| 12S/02E-24T56 | PRUNEDALE | 6/3/69 | C.F. DOUGHERTY | 8 | 354 | 414 | 424 | DOM; | |
| 12S/02E-24T57 | PRUNEDALE | 2/4/81 | ASH & SONS | 6 | 300 | 340 | 366 | | |
| 12S/02E-24T58 | PRUNEDALE | 12/9/65 | ASH & SONS | 6 | 190 | 256 | 290 | DOM; | |
| 12S/02E-24T59 | PRUNEDALE | 11/15/86 | ROMAN WELL DRILLING | 5 | 260 | 500 | 500 | DOM; | |
| 12S/02E-25A01 | PRUNEDALE | 6/18/58 | C.F. DOUGHERTY | 8 | 200 | 240 | 248 | DOM; | |
| 12S/02E-25B02 | PRUNEDALE | | | | | | | | |
| 12S/02E-25E50 | PRUNEDALE | 10/16/54 | C.F. DOUGHERTY | 8 | 56 | 88 | 96 | DOM; | |
| 12S/02E-25F50 | PRUNEDALE | 6/25/77 | C.F. DOUGHERTY | 12 | 370 | 430 | 440 | IRR; | |
| 12S/02E-25G50 | PAJARO-SPRINGFIELD | 12/24/91 | DOUGHERTY PUMP & DRILLING | 5 | 360 | 420 | 420 | DOM; | |
| 12S/02E-25J01 | PRUNEDALE | | | | | | | IRR; | |
| 12S/02E-25J50 | PRUNEDALE | 8/20/50 | C.F. DOUGHERTY | 8 | 78 | 120 | 129 | DOM; | |
| 12S/02E-25K01 | PRUNEDALE | | | | | | | DOM; | |
| 12S/02E-25K50 | PRUNEDALE | 2/22/84 | ASH & SONS | 8 | 214 | 254 | 263 | IRR; | |
| 12S/02E-25K51 | PRUNEDALE | 1/16/78 | C.F. DOUGHERTY | 8 | 170 | 210 | 218 | DOM; | |
| 12S/02E-25L50 | PRUNEDALE | 7/23/79 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 12S/02E-25L51 | PRUNEDALE | 10/20/88 | C.F. DOUGHERTY | 6 | 240 | 300 | 303 | DOM; | |
| 12S/02E-25M01 | PRUNEDALE | | | | | | | DOM; | |
| 12S/02E-25M02 | PAJARO-SPRINGFIELD | | | | | | | DOM; | |
| 12S/02E-25M50 | HALL DISTRICT | 3/10/80 | ASH & SONS | 8 | 213 | 253 | 275 | DOM;IRR; | |
| 12S/02E-25M51 | HALL DISTRICT | 9/27/79 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 12S/02E-25N01 | PRUNEDALE | 1/1/52 | DUER | | | | 100 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-25N02 | PAJARO-SPRINGFIELD | | | | | | | | |
| 12S/02E-25N50 | HALL DISTRICT | 1/10/91 | ASH & SONS | 5 | 160 | 200 | 205 | DOM; | |
| 12S/02E-25P01 | PRUNEDALE | | | | | | 200 | IRR; | |
| 12S/02E-25P02 | PAJARO-SPRINGFIELD | 3/10/66 | C.F. DOUGHERTY | 10 | 116 | 196 | 204 | DOM; | |
| 12S/02E-25P03 | PAJARO-SPRINGFIELD | | | 8 | | | | | |
| 12S/02E-25P50 | PRUNEDALE | 12/29/82 | ASH & SONS | 8 | 195 | 275 | 285 | IRR; | |
| 12S/02E-25Q01 | PAJARO-SPRINGFIELD | 3/1/72 | ASH & SONS | 6 | 120 | 156 | 170 | | |
| 12S/02E-25Q50 | PAJARO-SPRINGFIELD | | LANDINO CONSTRUCTION | 8 | | | 95 | | DES |
| 12S/02E-25Q51 | PRUNEDALE | 8/1/58 | LANDINO CONSTRUCTION | 10 | | | 290 | | DES |
| 12S/02E-25R50 | PRUNEDALE | 7/7/50 | C.F. DOUGHERTY | 8 | 30 | 51 | 60 | DOM; | |
| 12S/02E-25R51 | PAJARO-SPRINGFIELD | 5/10/74 | SALINAS PUMP CO | 10 | 48 | 96 | 110 | DOM; | |
| 12S/02E-25T50 | PRUNEDALE | 2/4/64 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 12S/02E-25T51 | PRUNEDALE | 10/25/52 | C.F. DOUGHERTY | 12 | 47 | 98 | 105 | DOM; | |
| 12S/02E-25T52 | PRUNEDALE | 11/1/61 | C.F. DOUGHERTY | 10 | 240 | 280 | 288 | DOM; | |
| 12S/02E-25T53 | PRUNEDALE | 7/30/71 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 12S/02E-25T54 | PRUNEDALE | | ROBINETT & SONS | 8 | 297 | 397 | 397 | DOM; | |
| 12S/02E-25T55 | PRUNEDALE | 10/12/56 | C.F. DOUGHERTY | 8 | 52 | 92 | 100 | DOM; | |
| 12S/02E-25T56 | PRUNEDALE | 8/10/79 | FREEDOM GEN REPAIR & PUMP | 6 | 275 | 295 | 295 | DOM; | |
| 12S/02E-25T57 | PRUNEDALE | 3/31/71 | CLIFFORD PUMP & WELL | 8 | 76 | 116 | 120 | DOM | |
| 12S/02E-25T58 | PRUNEDALE | 2/28/63 | C.F. DOUGHERTY | 8 | 52 | 92 | 100 | DOM; | |
| 12S/02E-25T59 | PRUNEDALE | 9/18/52 | C.F. DOUGHERTY | 12 | 135 | 173 | 180 | DOM; | |
| 12S/02E-25T60 | PRUNEDALE | 3/6/78 | C.F. DOUGHERTY | 12 | 210 | 290 | 300 | IRR; | |
| 12S/02E-25T61 | PRUNEDALE | 3/30/62 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 12S/02E-25T62 | PRUNEDALE | 9/12/53 | C.F. DOUGHERTY | 8 | 248 | 280 | 288 | DOM; | |
| 12S/02E-25T63 | PRUNEDALE | 6/11/76 | C.F. DOUGHERTY | 8 | 205 | 297 | 305 | DOM; | |
| 12S/02E-25T64 | PRUNEDALE | 3/25/65 | C.F. DOUGHERTY | 8 | 90 | 136 | 140 | DOM; | |
| 12S/02E-25T65 | PRUNEDALE | 8/24/51 | C.F. DOUGHERTY | 8 | 33 | 63 | 72 | DOM; | |
| 12S/02E-25T66 | PRUNEDALE | 11/28/67 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 12S/02E-25T67 | PRUNEDALE | 9/30/72 | ASH & SONS | 7 | 285 | 321 | 330 | DOM; | |
| 12S/02E-25T68 | PRUNEDALE | 7/26/70 | C.F. DOUGHERTY | 8 | 100 | 140 | 148 | DOM; | |
| 12S/02E-25T69 | PRUNEDALE | 1/21/54 | C.F. DOUGHERTY | 12 | 42 | 94 | 100 | IRR; | |
| 12S/02E-25T70 | PRUNEDALE | 6/3/65 | C.F. DOUGHERTY | 8 | 97 | 117 | 125 | DOM; | |
| 12S/02E-25T71 | PRUNEDALE | 5/23/69 | FREEDOM GEN REPAIR & PUMP | 6 | 106 | 138 | 138 | DOM; | |
| 12S/02E-25T72 | PRUNEDALE | 11/11/63 | C.F. DOUGHERTY | 8 | 249 | 293 | 297 | DOM; | |
| 12S/02E-25T73 | PRUNEDALE | 2/6/79 | FREEDOM GEN REPAIR & PUMP | 6 | 80 | 100 | 100 | DOM; | |
| 12S/02E-25T74 | PRUNEDALE | 12/17/71 | C.F. DOUGHERTY | 8 | 141 | 181 | 189 | DOM; | |
| 12S/02E-25T75 | PRUNEDALE | 2/10/79 | FREEDOM GEN REPAIR & PUMP | 6 | 80 | 100 | 100 | DOM; | |
| 12S/02E-25T76 | PRUNEDALE | 3/26/58 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 12S/02E-25T77 | PRUNEDALE | 5/19/53 | C.F. DOUGHERTY | 8 | 75 | 126 | 135 | DOM; | |
| 12S/02E-25T78 | PRUNEDALE | 12/8/65 | C.F. DOUGHERTY | 8 | 84 | 124 | 132 | DOM; | |
| 12S/02E-25T79 | PRUNEDALE | 11/10/73 | ASH & SONS | 7 | 128 | 156 | 160 | DOM; | |
| 12S/02E-25T80 | PRUNEDALE | 3/10/77 | ASH & SONS | 6 | 348 | 380 | 380 | DOM; | |
| 12S/02E-25T81 | PRUNEDALE | 7/8/66 | C.F. DOUGHERTY | 14 | 280 | 340 | 356 | IRR; | |
| 12S/02E-25T82 | PRUNEDALE | 1/11/77 | C.F. DOUGHERTY | 12 | 240 | 310 | 320 | DOM;IRR; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-25T83 | PRUNEDALE | 2/17/80 | ROBINETT & SONS | 8 | 145 | 345 | 345 | IRR; | |
| 12S/02E-26A01 | PRUNEDALE | 3/26/58 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 12S/02E-26A50 | PRUNEDALE | 5/29/86 | C.F. DOUGHERTY | 10 | 220 | 360 | 380 | IRR; | |
| 12S/02E-26A51 | HALL DISTRICT | 8/31/81 | C.F. DOUGHERTY | 8 | 324 | 372 | 380 | IRR; | |
| 12S/02E-26A52 | PRUNEDALE | 9/13/91 | LANDINO | 5 | 340 | 420 | 422 | DOM | |
| 12S/02E-26C01 | HALL DISTRICT | 3/16/65 | | | | | | IRR; | |
| 12S/02E-26C50 | PRUNEDALE | 5/17/52 | NUNES | 10 | 229 | 279 | 288 | | |
| 12S/02E-26D50 | PRUNEDALE | 11/21/56 | C.F. DOUGHERTY | 8 | 52 | 92 | 100 | DOM; | |
| 12S/02E-26D51 | PRUNEDALE | 5/20/72 | C.F. DOUGHERTY | 8 | 116 | 156 | 164 | DOM; | |
| 12S/02E-26D52 | PRUNEDALE | 9/24/77 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 12S/02E-26F01 | PRUNEDALE | 3/16/65 | | | | | | | |
| 12S/02E-26G50 | PAJARO-SPRINGFIELD | 12/14/88 | ASH & SONS | 8 | 380 | 640 | 660 | IRR; | |
| 12S/02E-26G51 | | | | | | | | | |
| 12S/02E-26H50 | HALL DISTRICT | 12/19/80 | C.F. DOUGHERTY | 12 | 268 | 328 | 338 | IRR; | |
| 12S/02E-26J01 | HALL DISTRICT | | | | | | | | |
| 12S/02E-26K50 | HALL DISTRICT | 5/11/90 | C.F. DOUGHERTY | 6 | 320 | 380 | 380 | DOM; | |
| 12S/02E-26Q50 | PRUNEDALE | 3/30/91 | DOUGHERTY PUMP & DRILLING | 8 | 405 | 635 | 635 | IRR | |
| 12S/02E-26T50 | PRUNEDALE | 10/11/70 | ASH & SONS | 7 | 346 | 394 | 428 | DOM; | |
| 12S/02E-26T51 | PRUNEDALE | 2/2/68 | C.F. DOUGHERTY | 10 | 84 | 124 | 132 | DOM; | |
| 12S/02E-26T52 | PRUNEDALE | 12/28/61 | C.F. DOUGHERTY | 8 | 72 | 112 | 120 | DOM; | |
| 12S/02E-26T53 | PRUNEDALE | 8/16/62 | C.F. DOUGHERTY | 8 | 44 | 84 | 92 | DOM; | |
| 12S/02E-26T54 | PRUNEDALE | 8/14/62 | C.F. DOUGHERTY | 8 | 48 | 88 | 96 | DOM; | |
| 12S/02E-26T55 | PRUNEDALE | 11/5/54 | SANTA ROSA DRILLING | 14 | 70 | 130 | 280 | | |
| 12S/02E-26T56 | PRUNEDALE | 8/4/71 | C.F. DOUGHERTY | 10 | 52 | 112 | 120 | DOM; | |
| 12S/02E-26T57 | PRUNEDALE | 9/17/71 | CLIFFORD PUMP & WELL | 8 | 78 | 118 | 118 | DOM | |
| 12S/02E-26T58 | PRUNEDALE | 7/18/66 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 12S/02E-26T59 | PRUNEDALE | 12/4/65 | MURPHY | 12 | 156 | 216 | 224 | IRR; | |
| 12S/02E-26T60 | PRUNEDALE | 4/16/56 | C.F. DOUGHERTY | 12 | 80 | 140 | 148 | IRR; | |
| 12S/02E-26T61 | PRUNEDALE | 6/30/75 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 12S/02E-26T62 | PRUNEDALE | 3/11/71 | C.F. DOUGHERTY | 7 | 312 | 352 | 360 | DOM; | |
| 12S/02E-26T63 | PRUNEDALE | 8/8/75 | MAGGIORA BROS | 18 | 120 | 160 | 180 | DOM; | |
| 12S/02E-26T64 | PAJARO-SPRINGFIELD | 10/13/87 | MAGGIORA BROS | 16 | 236 | 416 | 436 | DOM | |
| 12S/02E-27A01 | PRUNEDALE | 11/21/56 | C.F. DOUGHERTY | 8 | 52 | 92 | 100 | DOM; | |
| 12S/02E-27A50 | PRUNEDALE | | ROBINETT & SONS | 6 | 105 | 205 | 205 | DOM; | |
| 12S/02E-27B50 | PAJARO-SPRINGFIELD | 6/17/91 | MAGGIORA BROS | 16 | 250 | 360 | 480 | PUBLIC | |
| 12S/02E-27C50 | PAJARO-SPRINGFIELD | | | | | | | DOM | |
| 12S/02E-27G50 | PRUNEDALE | 6/6/72 | FREEDOM GEN REPAIR & PUMP | 8 | 45 | 77 | 77 | DOM; | |
| 12S/02E-27L01 | PRUNEDALE | 5/1/60 | DUER | | 110 | 150 | 150 | DOM; | DES; |
| 12S/02E-27L50 | PRUNEDALE | 9/11/70 | MAGGIORA BROS | 10 | 28 | 40 | 40 | DOM; | |
| 12S/02E-27L51 | PAJARO-SPRINGFIELD | 6/5/90 | C.F. DOUGHERTY | 5 | 120 | 180 | 180 | DOM; | |
| 12S/02E-27T50 | PRUNEDALE | 7/19/62 | C.F. DOUGHERTY | 8 | 80 | 120 | 126 | DOM; | |
| 12S/02E-27T51 | PRUNEDALE | 6/14/60 | C.F. DOUGHERTY | 10 | 104 | 164 | 175 | DOM; | |
| 12S/02E-27T52 | PRUNEDALE | 10/13/70 | C.F. DOUGHERTY | 12 | 350 | 430 | 440 | MUN; | |
| 12S/02E-27T53 | PRUNEDALE | 3/5/76 | CLIFFORD PUMP & WELL | 8 | 42 | 74 | 106 | IRR | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-27T54 | PRUNEDALE | 8/4/54 | C.F. DOUGHERTY | 7 | 166 | 198 | 202 | DOM; | |
| 12S/02E-27T55 | PRUNEDALE | 12/3/68 | FREEDOM GEN REPAIR & PUMP | 12 | 98 | 158 | 203 | IRR; | |
| 12S/02E-27T56 | PRUNEDALE | 1/24/79 | C.F. DOUGHERTY | 12 | 126 | 166 | 176 | IRR; | |
| 12S/02E-27T57 | PRUNEDALE | 10/7/53 | C.F. DOUGHERTY | 8 | 76 | 116 | 124 | DOM; | |
| 12S/02E-27T58 | PRUNEDALE | 4/15/80 | MAGGIORA BROS | 26 | 390 | 580 | 620 | IRR; | |
| 12S/02E-28A50 | HALL DISTRICT | 10/8/79 | FREEDOM GEN REPAIR & PUMP | 6 | 86 | 106 | 106 | DOM; | |
| 12S/02E-28A51 | HALL DISTRICT | 1/31/91 | ASH & SONS | 6 | 180 | 220 | 230 | DOM; | |
| 12S/02E-28A52 | HALL DISTRICT | 1/30/91 | ASH & SONS | | | | 40 | | DES |
| 12S/02E-28B01 | PAJARO-SPRINGFIELD | 12/8/49 | C.F. DOUGHERTY | 8 | 165 | 186 | 195 | DOM; | |
| 12S/02E-28B50 | PAJARO-SPRINGFIELD | 5/4/85 | ROBINETT & SONS | 6 | 120 | 200 | 200 | IRR; | |
| 12S/02E-28B51 | PAJARO-SPRINGFIELD | 9/11/85 | LANDINO | 6 | 90 | 170 | 170 | DOM; | |
| 12S/02E-28B52 | PAJARO-SPRINGFIELD | 10/27/70 | FREEDOM GEN REPAIR & PUMP | 8 | 73 | 93 | 97 | DOM; | |
| 12S/02E-28G01 | PRUNEDALE | 9/14/77 | MAGGIORA BROS | 6 | 95 | 115 | 125 | DOM; | |
| 12S/02E-28G50 | PAJARO-SPRINGFIELD | 5/4/88 | ASH & SONS | 5 | 140 | 180 | 185 | DOM; | |
| 12S/02E-28G51 | PAJARO-SPRINGFIELD | 12/20/77 | MAGGIORA BROS | 16 | 136 | 170 | 250 | IRR; | |
| 12S/02E-28G52 | PAJARO-SPRINGFIELD | 7/29/72 | ASH & SONS | 6 | 40 | 56 | 60 | DOM; | |
| 12S/02E-28R01 | PRUNEDALE | | | | | | 160 | DOM; | |
| 12S/02E-28T50 | PAJARO-SPRINGFIELD | 7/10/50 | C.F. DOUGHERTY | 10 | 30 | 51 | 60 | DOM; | |
| 12S/02E-28T51 | PRUNEDALE | 6/14/77 | ROBINETT & SONS | 10 | 125 | 225 | 225 | IRR; | |
| 12S/02E-28T52 | PAJARO-SPRINGFIELD | 2/18/72 | FREEDOM GEN REPAIR & PUMP | 8 | 73 | 89 | 89 | DOM; | |
| 12S/02E-29A01 | PAJARO-SPRINGFIELD | 11/12/46 | ALEXANDER | 12 | 158 | 200 | 200 | IRR; | DES |
| 12S/02E-29B01 | PAJARO-SPRINGFIELD | 12/8/49 | C.F. DOUGHERTY | 8 | 165 | 186 | 195 | | |
| 12S/02E-29C02 | PAJARO-SPRINGFIELD | | | | | | | DOM; | |
| 12S/02E-29C50 | PAJARO-SPRINGFIELD | 5/6/82 | MAGGIORA BROS | 16 | 250 | 370 | 400 | IRR; | |
| 12S/02E-29D50 | PAJARO-SPRINGFIELD | 4/3/93 | DOUGHERTY PUMP & DRILLING | 12 | 340 | 520 | 520 | IRR; | |
| 12S/02E-29E01 | PAJARO-SPRINGFIELD | 8/1/49 | FREEDOM GEN REPAIR & PUMP | 12 | 200 | 290 | 310 | IRR; | |
| 12S/02E-29E02 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 12S/02E-29F50 | PAJARO-SPRINGFIELD | 8/10/84 | MAGGIORA BROS | 16 | 250 | 410 | 450 | IRR; | |
| 12S/02E-29H50 | PAJARO-SPRINGFIELD | 6/10/82 | MAGGIORA BROS | 12 | 260 | 360 | 395 | IRR; | |
| 12S/02E-29J03 | PAJARO-SPRINGFIELD | 8/5/76 | | | | | | DOM; | |
| 12S/02E-29K50 | PAJARO-SPRINGFIELD | 5/14/81 | MAGGIORA BROS | 16 | 250 | 400 | 430 | IRR; | |
| 12S/02E-29L01 | PAJARO-SPRINGFIELD | 1/1/50 | MEYER | | 300 | 375 | 375 | IRR; | DES; |
| 12S/02E-29L02 | PAJARO-SPRINGFIELD | 11/6/51 | FREEDOM GEN REPAIR & PUMP | 12 | 246 | 396 | 397 | IRR; | |
| 12S/02E-29N01 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 12S/02E-29N50 | PAJARO-SPRINGFIELD | 2/17/33 | | 16 | | | 3125 | | |
| 12S/02E-29P01 | PAJARO-SPRINGFIELD | 11/6/51 | DUER | 12 | 246 | 396 | 397 | IRR; | |
| 12S/02E-29R01 | PAJARO-SPRINGFIELD | 6/5/57 | DUER | | 170 | 250 | 250 | IRR; | |
| 12S/02E-29R50 | PAJARO-SPRINGFIELD | 5/3/84 | MAGGIORA BROS | 16 | 220 | 400 | 440 | DOM; | |
| 12S/02E-29T51 | PAJARO-SPRINGFIELD | 11/6/51 | FREEDOM GEN REPAIR & PUMP | 12 | 246 | 396 | 397 | IND;IRR; | |
| 12S/02E-30D01 | PAJARO-SPRINGFIELD | 9/28/66 | | 3 | | | | DOM; | |
| 12S/02E-30E01 | PAJARO-SPRINGFIELD | 4/1/34 | DUER | 12 | 300 | 360 | 360 | IRR; | DES; |
| 12S/02E-30E03 | PAJARO-SPRINGFIELD | | | 12 | | | | | ABAN; |
| 12S/02E-30E50 | PAJARO-SPRINGFIELD | | DUER | 8 | | | 139 | DOM; | |
| 12S/02E-30E51 | PAJARO-SPRINGFIELD | 8/7/92 | DOUGHERTY PUMP & DRILLING | 12 | 520 | 600 | 600 | IRR | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-30F01 | PAJARO-SPRINGFIELD | | DUER | | | | 335 | | |
| 12S/02E-30F03 | PAJARO-SPRINGFIELD | 7/23/64 | | | | | 400 | IRR; | |
| 12S/02E-30L50 | PAJARO-SPRINGFIELD | 3/10/87 | LANDINO | 6 | 120 | 180 | 192 | DOM; | |
| 12S/02E-30M01 | PAJARO-SPRINGFIELD | 1/1/48 | DUER | 12 | | | 160 | | |
| 12S/02E-30M02 | PAJARO-SPRINGFIELD | 1/1/49 | CALFUS | 12 | 255 | 275 | 400 | IRR; | |
| 12S/02E-30M03 | PAJARO-SPRINGFIELD | 1/1/64 | | 8 | | | 107 | | |
| 12S/02E-30M04 | PAJARO-SPRINGFIELD | 1/1/65 | | 10 | | | 368 | IRR; | |
| 12S/02E-30M05 | PAJARO-SPRINGFIELD | 4/1/66 | EDGEBURG | 8 | 345 | 380 | 380 | DOM; | |
| 12S/02E-30M50 | PAJARO-SPRINGFIELD | 8/5/74 | MAGGIORA BROS | 16 | 340 | 540 | 580 | IRR; | |
| 12S/02E-30M51 | PAJARO-SPRINGFIELD | 1/1/48 | DUER | 12 | | | 220 | | |
| 12S/02E-30M52 | PAJARO-SPRINGFIELD | 2/10/84 | MAGGIORA BROS | 7 | 500 | 560 | 580 | DOM; | |
| 12S/02E-30M53 | PAJARO-SPRINGFIELD | 5/6/74 | MAGGIORA BROS | 16 | 340 | 360 | 360 | IRR; | |
| 12S/02E-30N01 | PAJARO-SPRINGFIELD | 1/1/46 | WESTERN PUMP | 12 | 140 | 180 | 180 | IRR; | |
| 12S/02E-30N02 | PAJARO-SPRINGFIELD | 6/29/66 | | 12 | | | | IRR; | |
| 12S/02E-30N03 | PAJARO-SPRINGFIELD | 6/30/66 | | 14 | | | | DOM; | |
| 12S/02E-30P01 | PAJARO-SPRINGFIELD | 10/1/46 | ALEXANDER | 12 | 110 | 150 | 150 | IRR; | ABAN; |
| 12S/02E-30P02 | PAJARO-SPRINGFIELD | 6/28/66 | | 12 | | | 250 | IRR; | |
| 12S/02E-30P03 | PAJARO-SPRINGFIELD | 10/1/46 | ALEXANDER | 12 | | | 119 | | |
| 12S/02E-30P50 | PAJARO-SPRINGFIELD | 8/7/85 | ROMAN WELL DRILLING | 5 | 140 | 160 | 190 | DOM; | |
| 12S/02E-30P51 | PAJARO-SPRINGFIELD | 2/18/77 | MAGGIORA BROS | 16 | 230 | 230 | 280 | IRR; | |
| 12S/02E-30P52 | PRUNEDALE | 7/19/91 | ASH & SONS | 5 | 320 | 360 | 360 | DOM | |
| 12S/02E-30Q50 | PAJARO-SPRINGFIELD | 5/27/77 | C.F. DOUGHERTY | 8 | 328 | 400 | 408 | DOM; | |
| 12S/02E-30R02 | PAJARO-SPRINGFIELD | | | | | | | | |
| 12S/02E-30R50 | PAJARO-SPRINGFIELD | 2/12/69 | FREEDOM GEN REPAIR & PUMP | 12 | 87 | 141 | 145 | IRR; | |
| 12S/02E-30R51 | PAJARO-SPRINGFIELD | 7/19/69 | FREEDOM GEN REPAIR & PUMP | | | | 145 | | |
| 12S/02E-30R52 | PAJARO-SPRINGFIELD | 8/18/89 | ASH & SONS | 8 | 350 | 490 | 505 | DOM; | |
| 12S/02E-30R53 | PAJARO-SPRINGFIELD | 7/23/69 | FREEDOM GEN REPAIR & PUMP | 10 | 326 | 366 | 366 | IRR; | |
| 12S/02E-30T50 | PAJARO-SPRINGFIELD | 12/1/80 | FREEDOM GEN REPAIR & PUMP | 12 | 324 | 344 | 360 | IRR; | |
| 12S/02E-30T51 | PAJARO-SPRINGFIELD | 4/1/48 | | 12 | | | 220 | | |
| 12S/02E-30T52 | PAJARO-SPRINGFIELD | 11/26/74 | SALINAS PUMP CO | 8 | 460 | 580 | 830 | IRR; | |
| 12S/02E-30T53 | PAJARO-SPRINGFIELD | 2/3/78 | CLIFFORD PUMP & WELL | | | | 302 | | |
| 12S/02E-30T54 | PAJARO-SPRINGFIELD | 4/2/85 | LANDINO | 5 | 100 | 198 | 203 | DOM; | |
| 12S/02E-30T55 | PAJARO-SPRINGFIELD | 6/30/73 | SALINAS PUMP CO | 12 | 256 | 408 | 420 | IRR; | |
| 12S/02E-31A01 | PAJARO-SPRINGFIELD | 5/6/57 | DUER | | 200 | 250 | 250 | IRR; | ABAN; |
| 12S/02E-31A02 | PAJARO-SPRINGFIELD | 11/3/78 | MAGGIORA BROS | 8 | 260 | 300 | 355 | IRR; | |
| 12S/02E-31B01 | PAJARO-SPRINGFIELD | 1/1/47 | WESTERN DRILLING | | | | 316 | IRR; | |
| 12S/02E-31B50 | PAJARO-SPRINGFIELD | 5/14/64 | SALINAS PUMP CO | 12 | 120 | 264 | 321 | IRR; | |
| 12S/02E-31C01 | PAJARO-SPRINGFIELD | 3/1/47 | | | | | 316 | IRR; | ABAN; |
| 12S/02E-31C02 | PAJARO-SPRINGFIELD | | | | | | | IRR; | ABAN; |
| 12S/02E-31C03 | PAJARO-SPRINGFIELD | 6/28/66 | DUER | 12 | | | 170 | IRR; | DES; |
| 12S/02E-31C04 | PAJARO-SPRINGFIELD | 8/25/71 | | | | | | IRR; | |
| 12S/02E-31C05 | PAJARO-SPRINGFIELD | 7/30/77 | CLIFFORD PUMP & WELL | 16 | 200 | 300 | 339 | IRR | |
| 12S/02E-31C50 | PAJARO-SPRINGFIELD | 4/30/58 | C & N PUMP & WELL CO | | | | 355 | TEST WELL | |
| 12S/02E-31C51 | PAJARO-SPRINGFIELD | 5/26/58 | C & N PUMP & WELL CO | 12 | | | 356 | IRR | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-31D01 | PAJARO-SPRINGFIELD | 1/1/55 | | 12 | | | 100 | IRR; | |
| 12S/02E-31E01 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 12S/02E-31E50 | PAJARO-SPRINGFIELD | 5/14/64 | SALINAS PUMP CO | 6 | 60 | 100 | 100 | DOM; | |
| 12S/02E-31K01 | PAJARO-SPRINGFIELD | 5/13/44 | ALEXANDER | 12 | 164 | 219 | 219 | IRR; | |
| 12S/02E-31M50 | PAJARO-SPRINGFIELD | 7/3/77 | CLIFFORD PUMP & WELL | 16 | 200 | 300 | 339 | IRR | |
| 12S/02E-31P01 | PAJARO-SPRINGFIELD | 4/26/84 | | | | | | IRR; | |
| 12S/02E-31Q01 | PAJARO-SPRINGFIELD | 3/5/76 | | | | | 135 | | |
| 12S/02E-31T50 | PAJARO-SPRINGFIELD | 4/29/60 | C.F. DOUGHERTY | 8 | 116 | 156 | 164 | DOM; | |
| 12S/02E-31T51 | PAJARO-SPRINGFIELD | 3/11/74 | MAGGIORA BROS | 20 | 180 | 410 | 415 | IRR; | |
| 12S/02E-31T52 | PAJARO-SPRINGFIELD | 9/14/63 | C.F. DOUGHERTY | 8 | 100 | 140 | 148 | DOM; | |
| 12S/02E-31T53 | PAJARO-SPRINGFIELD | 8/18/80 | ASH & SONS | 5 | 70 | 100 | 110 | DOM; | |
| 12S/02E-31T54 | PRUNEDALE | 2/24/63 | SALINAS PUMP CO | 12 | 72 | 144 | 264 | IRR; | |
| 12S/02E-31T55 | PAJARO-SPRINGFIELD | 5/28/74 | SALINAS PUMP CO | 10 | 356 | 356 | 376 | DOM;IRR; | |
| 12S/02E-31T56 | PAJARO-SPRINGFIELD | 5/21/70 | FREEDOM GEN REPAIR & PUMP | 12 | 368 | 418 | 418 | IRR; | |
| 12S/02E-31T57 | PAJARO-SPRINGFIELD | 7/19/54 | SALINAS PUMP CO | | | | 450 | IRR; | |
| 12S/02E-31T58 | PAJARO-SPRINGFIELD | 7/27/54 | SALINAS PUMP CO | 12 | 234 | 450 | 450 | IRR; | |
| 12S/02E-31T59 | PAJARO-SPRINGFIELD | 8/1/73 | MAGGIORA BROS | 12 | 260 | 374 | 400 | DOM; | |
| 12S/02E-32B01 | PAJARO-SPRINGFIELD | | FREEDOM GEN REPAIR & PUMP | 12 | 136 | 354 | 354 | IRR; | |
| 12S/02E-32C01 | PAJARO-SPRINGFIELD | 5/6/57 | DUER | | 100 | 342 | 342 | IRR; | |
| 12S/02E-32F01 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 12S/02E-32H01 | PAJARO-SPRINGFIELD | 3/14/64 | VALLEY PUMP | 12 | 253 | 603 | 603 | IRR; | |
| 12S/02E-32J01 | PAJARO-SPRINGFIELD | | VALLEY PUMP | | | | | IRR; | |
| 12S/02E-32K01 | PAJARO-SPRINGFIELD | 1/1/48 | | 12 | | | 356 | IRR; | |
| 12S/02E-32N01 | PAJARO-SPRINGFIELD | 5/6/57 | DUER | 14 | 222 | 372 | 372 | IRR; | ABAN; |
| 12S/02E-32T50 | PAJARO-SPRINGFIELD | 8/23/73 | SALINAS PUMP CO | 12 | 200 | 602 | 666 | IRR; | |
| 12S/02E-32T51 | PAJARO-SPRINGFIELD | 11/30/74 | MAGGIORA BROS | 20 | 178 | 315 | 355 | IRR; | |
| 12S/02E-32T52 | PAJARO-SPRINGFIELD | | | 14 | 222 | 372 | 372 | IRR; | |
| 12S/02E-32T53 | PAJARO-SPRINGFIELD | 12/30/66 | C.F. DOUGHERTY | 12 | | | 120 | DOM; | |
| 12S/02E-33A50 | PRUNEDALE | 10/11/73 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 12S/02E-33B01 | PRUNEDALE | | | | | | 100 | DOM; | |
| 12S/02E-33H01 | PRUNEDALE | | | | | | | IRR; | |
| 12S/02E-33N50 | PAJARO-SPRINGFIELD | 6/5/89 | ASH & SONS | 5 | 260 | 300 | 310 | DOM; | |
| 12S/02E-33N51 | PAJARO-SPRINGFIELD | 2/11/82 | MAGGIORA BROS | 16 | 250 | 440 | 480 | IRR; | |
| 12S/02E-33T50 | PRUNEDALE | 6/1/76 | C.F. DOUGHERTY | 12 | 274 | 334 | 344 | IRR; | |
| 12S/02E-33T51 | PRUNEDALE | 5/13/75 | C.F. DOUGHERTY | 10 | 116 | 156 | 164 | IRR; | |
| 12S/02E-33T52 | PRUNEDALE | 8/22/74 | C.F. DOUGHERTY | 12 | 156 | 196 | 208 | IRR; | |
| 12S/02E-33T53 | PRUNEDALE | 6/27/72 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 12S/02E-33T54 | PRUNEDALE | 6/10/49 | NUNES | | 130 | 175 | 201 | DOM; | |
| 12S/02E-33T55 | PAJARO-SPRINGFIELD | 6/12/78 | CLIFFORD PUMP & WELL | 12 | 140 | 210 | 422 | IRR | |
| 12S/02E-34G50 | PRUNEDALE | 4/16/71 | C.F. DOUGHERTY | 10 | 175 | 239 | 247 | IRR; | |
| 12S/02E-34G51 | PRUNEDALE | 11/10/77 | MAGGIORA BROS | 26 | 200 | 400 | 415 | IRR; | |
| 12S/02E-34L50 | PRUNEDALE | 11/7/84 | ASH & SONS | 6 | 140 | 180 | 185 | DOM; | |
| 12S/02E-34L51 | PRUNEDALE | 9/19/57 | | | | | 1917 | OIL | |
| 12S/02E-34L52 | PRUNEDALE | 6/18/84 | C.F. DOUGHERTY | 14 | | | 566 | IRR; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-34P50 | PRUNEDALE | 12/4/82 | MAGGIORA BROS | 6 | 140 | 190 | 220 | DOM; | |
| 12S/02E-34Q01 | PRUNEDALE | 1/27/71 | C.F. DOUGHERTY | 8 | 76 | 124 | 132 | DOM; | |
| 12S/02E-34T50 | PRUNEDALE | 4/16/66 | FREEDOM GEN REPAIR & PUMP | 12 | 92 | 168 | 168 | IRR; | |
| 12S/02E-35P01 | PRUNEDALE | 6/14/75 | ASH & SONS | 66 | 280 | 312 | 312 | DOM; | |
| 12S/02E-35P02 | PRUNEDALE | | | 8 | | | 350 | DOM; | |
| 12S/02E-35Q01 | PRUNEDALE | 7/29/72 | ASH & SONS | 66 | 240 | 276 | 276 | DOM; | |
| 12S/02E-35Q50 | PRUNEDALE | 4/15/85 | ASH & SONS | 6 | 315 | 395 | 480 | DOM; | |
| 12S/02E-35Q51 | PRUNEDALE | 10/10/90 | ASH & SONS | 6 | 370 | 410 | 420 | DOM; | |
| 12S/02E-35Q52 | PAJARO-SPRINGFIELD | 10/6/61 | ASH & SONS | 8 | 340 | 420 | 445 | DOM;IRR; | |
| 12S/02E-35T50 | PRUNEDALE | 9/25/79 | MAGGIORA BROS | 12 | 270 | 310 | 455 | DOM; | |
| 12S/02E-35T51 | PRUNEDALE | 1/16/76 | ASH & SONS | 12 | 420 | 440 | 445 | DOM; | |
| 12S/02E-35T52 | PRUNEDALE | 8/8/75 | ASH & SONS | 7 | 220 | 252 | 270 | DOM; | |
| 12S/02E-36A50 | PRUNEDALE | 1/14/77 | C.F. DOUGHERTY | 12 | 322 | 382 | 392 | IRR; | |
| 12S/02E-36C01 | PAJARO-SPRINGFIELD | | | | | | | | |
| 12S/02E-36D50 | PRUNEDALE | 4/17/79 | C.F. DOUGHERTY | 10 | 216 | 276 | 284 | DOM; | |
| 12S/02E-36D51 | HALL DISTRICT | 11/6/90 | ASH & SONS | 5 | 380 | 420 | 430 | DOM; | |
| 12S/02E-36D52 | HALL DISTRICT | 11/15/90 | ASH & SONS | | | | | | DES |
| 12S/02E-36D53 | PRUNEDALE | 7/13/79 | AMERICAN HOME | 6 | 180 | 250 | 250 | DOM; | |
| 12S/02E-36E01 | PRUNEDALE | | | | | | | DOM; | |
| 12S/02E-36E50 | PAJARO-SPRINGFIELD | 7/14/89 | C.F. DOUGHERTY | 5 | 252 | 292 | 292 | DOM; | |
| 12S/02E-36E51 | PRUNEDALE | 9/9/83 | C.F. DOUGHERTY | 8 | 224 | 264 | 272 | DOM; | |
| 12S/02E-36E52 | PRUNEDALE | 4/9/86 | ASH & SONS | 6 | 260 | 300 | 320 | IRR; | |
| 12S/02E-36E53 | HALL DISTRICT | 6/29/78 | CLIFFORD PUMP & WELL | 5 | 265 | 285 | 310 | DOM | |
| 12S/02E-36L01 | PRUNEDALE | 1/1/58 | JARSCHKE | 6 | 35 | 50 | 55 | DOM; | |
| 12S/02E-36L50 | HALL DISTRICT | 7/19/90 | C.F. DOUGHERTY | 5 | 280 | 320 | 330 | DOM; | |
| 12S/02E-36L51 | PRUNEDALE | 11/23/73 | CLIFFORD PUMP & WELL | 12 | 250 | 300 | 300 | DOM | |
| 12S/02E-36M50 | PRUNEDALE | 9/24/83 | ASH & SONS | 5 | 490 | 550 | 550 | DOM; | |
| 12S/02E-36M51 | PRUNEDALE | 3/4/88 | ASH & SONS | 5 | 400 | 460 | 465 | DOM; | |
| 12S/02E-36M52 | PRUNEDALE | 3/4/88 | ASH & SONS | 5 | 400 | 460 | 465 | DOM; | |
| 12S/02E-36M53 | PRUNEDALE | 9/30/92 | MAGGIORA BROS | 6 | 5 | 50 | 138 | | |
| 12S/02E-36M54 | PRUNEDALE | 1/29/91 | DOUGHERTY PUMP & DRILLING | 5 | 240 | 280 | 280 | DOM | |
| 12S/02E-36P03 | PRUNEDALE | | | | | | | IRR; | |
| 12S/02E-36P50 | HALL DISTRICT | 2/22/91 | C.F. DOUGHERTY | 5 | 280 | 320 | 340 | DOM; | |
| 12S/02E-36T50 | PRUNEDALE | 5/13/55 | C.F. DOUGHERTY | 12 | 56 | 96 | 100 | DOM; | |
| 12S/02E-36T51 | PRUNEDALE | 2/6/82 | MAGGIORA BROS | 5 | 230 | 330 | 365 | DOM; | |
| 12S/02E-36T52 | PRUNEDALE | 6/14/67 | FREEDOM GEN REPAIR & PUMP | 8 | 95 | 127 | 127 | DOM; | |
| 12S/02E-36T53 | PRUNEDALE | 7/31/62 | C.F. DOUGHERTY | 8 | 296 | 336 | 344 | DOM; | |
| 12S/02E-36T54 | PRUNEDALE | 8/22/59 | C.F. DOUGHERTY | 8 | 52 | 92 | 100 | DOM; | |
| 12S/02E-36T55 | PRUNEDALE | 6/13/61 | C.F. DOUGHERTY | 8 | 80 | 120 | 128 | DOM | |
| 12S/02E-36T56 | PRUNEDALE | 1/28/78 | FREEDOM GEN REPAIR & PUMP | 8 | 216 | 248 | 252 | DOM; | |
| 12S/02E-36T57 | PRUNEDALE | 12/3/54 | C.F. DOUGHERTY | 10 | 64 | 116 | 124 | DOM;IRR; | |
| 12S/02E-36T58 | PRUNEDALE | 10/14/65 | C.F. DOUGHERTY | 12 | 84 | 124 | 132 | DOM; | |
| 12S/02E-36T59 | PRUNEDALE | 4/15/55 | C.F. DOUGHERTY | 8 | 164 | 196 | 204 | DOM; | |
| 12S/02E-36T60 | PRUNEDALE | 3/1/72 | ASH & SONS | 6 | 120 | 156 | 170 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/02E-36T61 | PRUNEDALE | 3/17/56 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 12S/02E-36T62 | PRUNEDALE | 10/4/61 | C.F. DOUGHERTY | 8 | 68 | 108 | 116 | DOM; | |
| 12S/02E-36T63 | PRUNEDALE | 8/12/59 | ASH & SONS | 8 | | 350 | 504 | DOM; | |
| 12S/02E-36T64 | PRUNEDALE | 8/10/72 | ASH & SONS | 6 | 340 | 376 | 376 | DOM; | |
| 12S/02E-36T65 | PRUNEDALE | 3/10/66 | C.F. DOUGHERTY | 10 | 116 | 196 | 204 | DOM; | |
| 12S/02E-36T66 | PRUNEDALE | 8/2/57 | C.F. DOUGHERTY | 12 | | | 116 | DOM; | |
| 12S/02E-36T67 | PRUNEDALE | 5/16/68 | C.F. DOUGHERTY | 12 | 290 | 370 | 380 | IRR; | |
| 12S/02E-36T68 | PRUNEDALE | 10/14/61 | MURPHY | 10 | 66 | 96 | 100 | DOM; | |
| 12S/02E-36T69 | PRUNEDALE | 5/5/66 | C.F. DOUGHERTY | 8 | 188 | 288 | 236 | DOM; | |
| 12S/02E-36T70 | PRUNEDALE | 5/9/66 | C.F. DOUGHERTY | 8 | 56 | 96 | 104 | DOM; | |
| 12S/02E-36T71 | PRUNEDALE | 6/25/83 | ROBINETT & SONS | 8 | 200 | 325 | 325 | DOM; | |
| 12S/02E-80T50 | PRUNEDALE | 8/11/71 | C.F. DOUGHERTY | 8 | 100 | 140 | 148 | DOM; | |
| 12S/02E-80T51 | PAJARO-SPRINGFIELD | 4/27/53 | C.F. DOUGHERTY | 12 | 432 | 482 | 490 | IRR; | |
| 12S/03E-05E50 | PRUNEDALE | 3/30/89 | ASH & SONS | 6 | 420 | 460 | 480 | DOM; | |
| 12S/03E-07C01 | PAJARO-SPRINGFIELD | 4/1/47 | LITCHFIELD | | 110 | 142 | 160 | | |
| 12S/03E-07F01 | PAJARO-SPRINGFIELD | 1/1/45 | DUER | 16 | 77 | 87 | 150 | | |
| 12S/03E-07J01 | PAJARO-SPRINGFIELD | 9/1/31 | LITCHFIELD | | | | 158 | | |
| 12S/03E-07J02 | PAJARO-SPRINGFIELD | 2/1/47 | DUER | 14 | 105 | 197 | 200 | IRR; | |
| 12S/03E-07K01 | PAJARO-SPRINGFIELD | 1/1/34 | LITCHFIELD | | 110 | 160 | 162 | | |
| 12S/03E-07T50 | PAJARO-SPRINGFIELD | 10/26/72 | CHAPPELL PUMP & SUPPLY | 12 | 160 | 290 | 310 | IRR | |
| 12S/03E-07T51 | PAJARO-SPRINGFIELD | 6/2/77 | CLIFFORD PUMP & WELL | 6 | 140 | 160 | 165 | DOM | |
| 12S/03E-07T52 | PRUNEDALE | 3/24/75 | CHAPPELL PUMP & SUPPLY | 16 | 142 | 160 | 220 | IRR | |
| 12S/03E-07T53 | PAJARO-SPRINGFIELD | 5/21/69 | PIONEER | 14 | 95 | 360 | 422 | IRR; | |
| 12S/03E-08C01 | PAJARO-SPRINGFIELD | 7/1/47 | | | | | 230 | IRR; | DES |
| 12S/03E-08C02 | PAJARO-SPRINGFIELD | 5/11/84 | MAGGIORA BROS | 16 | 80 | 180 | 190 | IRR | |
| 12S/03E-08C50 | PAJARO-SPRINGFIELD | 5/11/84 | MAGGIORA BROS | 16 | 80 | 180 | 195 | IRR; | |
| 12S/03E-08G50 | PAJARO-SPRINGFIELD | 12/12/86 | C.F. DOUGHERTY | 6 | 143 | 203 | 210 | DOM; | |
| 12S/03E-08H01 | PAJARO-SPRINGFIELD | 12/12/80 | FREEDOM GEN REPAIR & PUMP | 8 | 286 | 307 | 315 | DOM; | DES; |
| 12S/03E-08H50 | PAJARO-SPRINGFIELD | 2/12/87 | ASH & SONS | 5 | 300 | 340 | 344 | DOM; | |
| 12S/03E-08M01 | PAJARO-SPRINGFIELD | 2/11/59 | | | | | | IRR; | |
| 12S/03E-08N50 | PAJARO-SPRINGFIELD | 8/5/55 | C.F. DOUGHERTY | 8 | 85 | 128 | 136 | DOM; | |
| 12S/03E-08T50 | PAJARO-SPRINGFIELD | 12/7/79 | FREEDOM GEN REPAIR & PUMP | 6 | 330 | 350 | 356 | DOM; | |
| 12S/03E-08T51 | AROMAS | 9/2/80 | C.F. DOUGHERTY | 8 | 132 | 172 | 180 | DOM; | |
| 12S/03E-08T52 | PAJARO-SPRINGFIELD | 11/11/78 | CLIFFORD PUMP & WELL | 6 | 130 | 150 | 167 | DOM/IRR | |
| 12S/03E-08T53 | PRUNEDALE | 3/23/79 | MAGGIORA BROS | 16 | 300 | 410 | 445 | IND; | |
| 12S/03E-09C01 | PAJARO-SPRINGFIELD | | LITCHFIELD | | 102 | 105 | 150 | | |
| 12S/03E-09D01 | PAJARO-SPRINGFIELD | | | 12 | | | 250 | DOM; | |
| 12S/03E-09D02 | PAJARO-SPRINGFIELD | | RESETAR BROS | 12 | 302 | 456 | 481 | DOM; | |
| 12S/03E-09Q01 | PAJARO-SPRINGFIELD | | | | | | 100 | | |
| 12S/03E-10N02 | PAJARO-SPRINGFIELD | 1/1/45 | COKER & BROGAN | | | | 562 | | |
| 12S/03E-12M50 | PAJARO-SPRINGFIELD | 3/21/83 | ASH & SONS | 6 | 170 | 210 | 220 | DOM; | |
| 12S/03E-13T50 | PAJARO-SPRINGFIELD | 10/23/64 | SALINAS PUMP CO | 10 | 200 | 300 | 300 | IRR; | |
| 12S/03E-15T50 | AROMAS | 10/9/57 | C.F. DOUGHERTY | 8 | 228 | 268 | 290 | DOM; | |
| 12S/03E-16B50 | AROMAS | 4/8/66 | FREEDOM GEN REPAIR & PUMP | 14 | 82 | 490 | 502 | IND; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-16C01 | PAJARO-SPRINGFIELD | 4/1/47 | PIERCE & SON | 12 | 25 | 100 | 220 | | |
| 12S/03E-16C02 | PAJARO-SPRINGFIELD | 5/15/65 | VALLEY PUMP | 12 | 300 | 372 | 385 | IRR; | ABAN; |
| 12S/03E-16C50 | PRUNEDALE | 5/15/65 | FREEDOM GEN REPAIR & PUMP | 12 | 300 | 372 | 385 | IRR; | |
| 12S/03E-16E50 | PRUNEDALE | 7/12/84 | MELVILLE & SON | 6 | 480 | 540 | 564 | DOM; | |
| 12S/03E-16E51 | AROMAS | 8/31/81 | MAGGIORA BROS | 6 | 205 | 235 | 350 | DOM; | |
| 12S/03E-16E52 | PAJARO-SPRINGFIELD | 5/12/82 | MAGGIORA BROS | 16 | 190 | 320 | 355 | IRR; | |
| 12S/03E-16F01 | PRUNEDALE | 2/10/59 | | 12 | | | | IRR; | ABAN; |
| 12S/03E-16F02 | PAJARO-SPRINGFIELD | | | 12 | | | | IRR; | DES; |
| 12S/03E-16G50 | PRUNEDALE | 8/6/84 | MELVILLE & SON | 14 | 90 | 390 | 500 | IRR; | |
| 12S/03E-16K50 | AROMAS | 12/10/50 | C.F. DOUGHERTY | 8 | 48 | 69 | 78 | DOM; | |
| 12S/03E-16L50 | AROMAS | 3/10/52 | MURPHY | 14 | 170 | 230 | 236 | | |
| 12S/03E-16L51 | AROMAS | 6/11/69 | C.F. DOUGHERTY | 8 | 192 | 232 | 240 | DOM; | |
| 12S/03E-16L52 | AROMAS | 8/9/75 | FREEDOM GEN REPAIR & PUMP | 8 | 116 | 136 | 140 | DOM; | |
| 12S/03E-16T50 | AROMAS | 6/22/65 | C.F. DOUGHERTY | 8 | 212 | 252 | 252 | DOM; | |
| 12S/03E-16T51 | PRUNEDALE | 5/1/53 | | | | | | | |
| 12S/03E-16T52 | AROMAS | 9/6/69 | MAGGIORA BROS | 30 | 18 | 58 | 58 | DOM; | |
| 12S/03E-16T53 | AROMAS | 8/26/72 | ASH & SONS | 7 | 80 | 106 | 120 | DOM; | |
| 12S/03E-16T54 | AROMAS | 7/7/78 | MAGGIORA BROS | 12 | 230 | 270 | 280 | DOM; | |
| 12S/03E-16T55 | AROMAS | 1/29/64 | C.F. DOUGHERTY | 10 | 16 | 48 | 56 | DOM; | |
| 12S/03E-16T56 | AROMAS | 10/24/69 | MAGGIORA BROS | 30 | 36 | 86 | 86 | DOM; | |
| 12S/03E-16T57 | AROMAS | 9/30/75 | CHAPPELL PUMP & SUPPLY | 13 | 390 | 220 | 530 | IRR | |
| 12S/03E-16T58 | AROMAS | 10/29/63 | C.F. DOUGHERTY | 14 | 44 | 174 | 190 | DOM; | |
| 12S/03E-16T59 | AROMAS | 7/1/71 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 12S/03E-16T60 | AROMAS | 8/24/61 | FREEDOM GEN REPAIR & PUMP | 12 | 322 | 442 | 450 | MUN; | |
| 12S/03E-16T61 | AROMAS | 10/23/69 | MAGGIORA BROS | 30 | 60 | 90 | 90 | DOM; | |
| 12S/03E-16T62 | AROMAS | 4/6/56 | FREEDOM GEN REPAIR & PUMP | 14 | 151 | 535 | 550 | IRR; | |
| 12S/03E-16T63 | AROMAS | 8/7/54 | FREEDOM GEN REPAIR & PUMP | 12 | 204 | 276 | 450 | IRR; | |
| 12S/03E-17D50 | PAJARO-SPRINGFIELD | 3/24/77 | CHAPPELL PUMP & SUPPLY | 16 | 160 | 380 | 456 | IND | |
| 12S/03E-17E50 | PAJARO-SPRINGFIELD | 6/26/89 | EATON | 16 | 400 | 650 | 700 | IRR; | |
| 12S/03E-17G50 | PRUNEDALE | 3/30/84 | MELVILLE & SON | 16 | 300 | 597 | 637 | IRR; | |
| 12S/03E-17H50 | PRUNEDALE | 1/1/84 | MELVILLE & SON | 16 | 300 | 624 | 711 | IRR; | |
| 12S/03E-17J50 | PRUNEDALE | 1/20/89 | ASH & SONS | 5 | 370 | 430 | 440 | DOM; | |
| 12S/03E-17J51 | PRUNEDALE | 1/13/89 | ASH & SONS | 6 | 260 | 300 | 303 | DOM; | |
| 12S/03E-17K01 | PRUNEDALE | 1/1/48 | PIERCE & SON | 12 | 48 | 244 | 256 | | |
| 12S/03E-17K02 | PRUNEDALE | 1/1/48 | PIERCE & SON | | | | 500 | | |
| 12S/03E-17K03 | PAJARO-SPRINGFIELD | 6/1/47 | DUER | | | | 275 | | |
| 12S/03E-17P50 | PRUNEDALE | 8/11/88 | ASH & SONS | 6 | 300 | 340 | 344 | DOM;IRR; | |
| 12S/03E-17Q50 | AROMAS | 1/18/54 | C.F. DOUGHERTY | 8 | 134 | 166 | 185 | DOM; | |
| 12S/03E-17Q51 | PAJARO-SPRINGFIELD | 12/1/91 | CHAPPELL PUMP & SUPPLY | 6 | 340 | 430 | 440 | DOM; | |
| 12S/03E-17Q52 | AROMAS | 5/14/93 | ASH & SONS | 6 | 360 | 400 | 400 | DOM | |
| 12S/03E-17T50 | AROMAS | 10/20/75 | FREEDOM GEN REPAIR & PUMP | 18 | 348 | 378 | 382 | DOM; | |
| 12S/03E-17T51 | AROMAS | 7/7/69 | C.F. DOUGHERTY | 8 | 200 | 300 | 375 | DOM; | |
| 12S/03E-17T52 | AROMAS | 12/30/60 | C.F. DOUGHERTY | 10 | 48 | 88 | 96 | DOM; | |
| 12S/03E-17T53 | AROMAS | 11/23/70 | CLIFFORD PUMP & WELL | 12 | 162 | 262 | 272 | IRR | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-17T54 | PAJARO-SPRINGFIELD | 3/11/77 | CHAPPELL PUMP & SUPPLY | | | | 410 | | |
| 12S/03E-17T55 | AROMAS | 10/11/74 | FREEDOM GEN REPAIR & PUMP | 8 | 68 | 100 | 100 | DOM; | |
| 12S/03E-17T56 | AROMAS | 5/8/73 | C.F. DOUGHERTY | 8 | 312 | 352 | 360 | DOM; | |
| 12S/03E-17T57 | AROMAS | 8/23/62 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 12S/03E-17T58 | AROMAS | 8/23/79 | LANDINO | 5 | 120 | 420 | 430 | DOM; | |
| 12S/03E-17T59 | AROMAS | 2/20/77 | ASH & SONS | 6 | 215 | 247 | 247 | DOM; | |
| 12S/03E-17T60 | AROMAS | 9/15/72 | CLIFFORD PUMP & WELL | 9 | 160 | 200 | 200 | DOM | |
| 12S/03E-17T61 | PAJARO-SPRINGFIELD | 11/13/68 | THE PUMP SHOP | 10 | | | 292 | DOM; | |
| 12S/03E-17T62 | PAJARO-SPRINGFIELD | 8/24/78 | MAGGIORA BROS | 16 | 130 | 190 | 220 | IRR; | |
| 12S/03E-18A50 | PAJARO-SPRINGFIELD | 10/20/84 | MAGGIORA BROS | 16 | 140 | 245 | 275 | IRR; | |
| 12S/03E-18B50 | PAJARO-SPRINGFIELD | 5/1/31 | LITCHFIELD | | | | 114 | | |
| 12S/03E-18D01 | PAJARO-SPRINGFIELD | 2/1/47 | LITCHFIELD | 12 | 125 | 160 | 172 | DOM; | |
| 12S/03E-18E04 | PAJARO-SPRINGFIELD | 2/11/59 | | 10 | | | | DOM; | |
| 12S/03E-18J50 | PAJARO-SPRINGFIELD | 6/1/89 | CHAPPELL PUMP & SUPPLY | 16 | 400 | 650 | 670 | IRR | |
| 12S/03E-18P50 | PRUNEDALE | 11/11/88 | C.F. DOUGHERTY | 6 | 270 | 330 | 330 | DOM; | |
| 12S/03E-18P51 | PRUNEDALE | 7/5/83 | C.F. DOUGHERTY | 12 | 170 | 230 | 240 | IRR; | |
| 12S/03E-18Q01 | PAJARO-SPRINGFIELD | 2/11/59 | | 12 | | | | IRR; | |
| 12S/03E-18T50 | AROMAS | 12/3/61 | MURPHY | 10 | 75 | 117 | 125 | DOM; | |
| 12S/03E-18T51 | AROMAS | 7/16/54 | WESTERN DRILLING | 14 | 117 | 144 | 152 | IRR; | |
| 12S/03E-18T52 | PRUNEDALE | 8/13/64 | C.F. DOUGHERTY | 8 | 108 | 148 | 176 | DOM; | |
| 12S/03E-18T53 | PAJARO-SPRINGFIELD | 6/9/78 | MAGGIORA BROS | 26 | 120 | 370 | 390 | IRR; | |
| 12S/03E-18T54 | PAJARO-SPRINGFIELD | 9/27/79 | CLIFFORD PUMP & WELL | 16 | 105 | 183 | 255 | IRR | |
| 12S/03E-18T55 | PAJARO-SPRINGFIELD | 9/27/57 | C.F. DOUGHERTY | 10 | 124 | 164 | 172 | DOM; | |
| 12S/03E-19C50 | PRUNEDALE | 3/31/88 | C.F. DOUGHERTY | 5 | 180 | 240 | 245 | DOM; | |
| 12S/03E-19D50 | PRUNEDALE | 10/28/64 | C.F. DOUGHERTY | 8 | 185 | 236 | 242 | DOM; | |
| 12S/03E-19F50 | PAJARO-SPRINGFIELD | 9/30/93 | ROBINETT & SONS | 8 | 390 | 450 | 450 | DOM | |
| 12S/03E-19J50 | PAJARO-SPRINGFIELD | 9/30/91 | DOUGHERTY PUMP & DRILLING | 5 | 320 | 400 | 400 | DOM | |
| 12S/03E-19L01 | PRUNEDALE | | ROBINETT & SONS | 8 | 288 | 328 | 331 | DOM; | |
| 12S/03E-19L50 | PRUNEDALE | 2/19/88 | ASH & SONS | 5 | 340 | 380 | 390 | DOM; | |
| 12S/03E-19M01 | PRUNEDALE | 1/1/48 | DUER | 10 | 100 | 161 | 161 | IRR; | |
| 12S/03E-19P50 | PRUNEDALE | 2/9/88 | ASH & SONS | 5 | 260 | 300 | 305 | DOM; | |
| 12S/03E-19P51 | PRUNEDALE | 9/18/85 | ASH & SONS | 6 | 360 | 400 | 407 | DOM; | |
| 12S/03E-19P52 | PRUNEDALE | 4/8/92 | ASH & SONS | 5 | 360 | 400 | 400 | DOM; | |
| 12S/03E-19R50 | PRUNEDALE | 12/21/77 | ASH & SONS | 7 | 233 | 265 | 265 | DOM; | |
| 12S/03E-19R51 | PRUNEDALE | 8/14/87 | C.F. DOUGHERTY | 10 | 260 | 400 | 408 | IRR; | |
| 12S/03E-19T50 | PRUNEDALE | 8/4/59 | C.F. DOUGHERTY | 12 | 110 | 162 | 172 | DOM; | |
| 12S/03E-19T51 | PRUNEDALE | 4/1/77 | C.F. DOUGHERTY | 12 | 178 | 238 | 248 | IRR; | |
| 12S/03E-19T52 | AROMAS | 10/1/75 | ASH & SONS | 12 | 180 | 200 | 210 | DOM; | |
| 12S/03E-19T53 | AROMAS | 11/4/75 | LANDINO | 6 | 105 | 190 | 190 | DOM; | |
| 12S/03E-19T54 | PRUNEDALE | | ROBINETT & SONS | 8 | | | 300 | DOM; | |
| 12S/03E-19T55 | AROMAS | 5/25/61 | C.F. DOUGHERTY | 12 | 198 | 278 | 288 | DOM; | |
| 12S/03E-19T56 | PRUNEDALE | 9/9/63 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 12S/03E-19T57 | PRUNEDALE | 9/4/79 | CHAPPELL PUMP & SUPPLY | 8 | 130 | 250 | 310 | DOM | |
| 12S/03E-19T58 | PRUNEDALE | 6/18/83 | ASH & SONS | 5 | 270 | 310 | 315 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-19T59 | AROMAS | 5/25/61 | C.F. DOUGHERTY | 10 | 128 | 188 | 196 | DOM; | |
| 12S/03E-19T60 | PRUNEDALE | | ROBINETT & SONS | 8 | 288 | 328 | 331 | DOM; | |
| 12S/03E-19T61 | PRUNEDALE | 8/12/63 | C.F. DOUGHERTY | 7 | 212 | 248 | 252 | | |
| 12S/03E-19T62 | PRUNEDALE | 10/23/70 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 12S/03E-19T63 | AROMAS | 9/14/76 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 12S/03E-19T64 | AROMAS | 4/3/61 | MURPHY | 10 | 128 | 149 | 153 | DOM; | |
| 12S/03E-20E50 | AROMAS | 6/27/78 | C.F. DOUGHERTY | 8 | 288 | 328 | 336 | DOM; | |
| 12S/03E-20E51 | PRUNEDALE | 7/16/87 | ASH & SONS | 6 | 505 | 605 | 625 | DOM; | |
| 12S/03E-20E52 | PRUNEDALE | 6/24/87 | ASH & SONS | 6 | 410 | 470 | 520 | DOM; | |
| 12S/03E-20F01 | PRUNEDALE | 12/8/76 | C.F. DOUGHERTY | 8 | 392 | 436 | 444 | DOM; | |
| 12S/03E-20F50 | PRUNEDALE | 9/27/82 | LANDINO | | 540 | 800 | 850 | IRR; | |
| 12S/03E-20F51 | PRUNEDALE | 2/22/83 | ASH & SONS | 5 | 360 | 400 | 408 | DOM; | |
| 12S/03E-20F52 | PRUNEDALE | 1/26/78 | ASH & SONS | 7 | 293 | 325 | 325 | DOM; | |
| 12S/03E-20G50 | AROMAS | 11/23/83 | ASH & SONS | 5 | 255 | 295 | 305 | DOM; | |
| 12S/03E-20G51 | AROMAS | 8/1/78 | C.F. DOUGHERTY | 10 | 322 | 382 | 392 | DOM; | |
| 12S/03E-20K01 | PRUNEDALE | | | 8 | 270 | 300 | 360 | DOM; | |
| 12S/03E-20K50 | PRUNEDALE | 10/19/88 | ASH & SONS | 5 | 260 | 300 | 303 | DOM; | |
| 12S/03E-20L50 | AROMAS | 3/27/69 | THE PUMP SHOP | 8 | | | 244 | DOM; | |
| 12S/03E-20N50 | PRUNEDALE | 7/5/83 | MAGGIORA BROS | 8 | 180 | 390 | 400 | DOM; | |
| 12S/03E-20N51 | PRUNEDALE | 7/16/87 | C.F. DOUGHERTY | 8 | 300 | 380 | 385 | DOM;IRR; | |
| 12S/03E-20T50 | AROMAS | 4/8/74 | C.F. DOUGHERTY | 8 | 272 | 312 | 320 | DOM; | |
| 12S/03E-20T51 | AROMAS | 5/14/60 | C.F. DOUGHERTY | 10 | 180 | 244 | 252 | DOM | |
| 12S/03E-20T52 | AROMAS | 10/15/74 | ASH & SONS | 6 | 178 | 260 | 220 | DOM; | |
| 12S/03E-20T53 | AROMAS | 11/12/75 | ASH & SONS | 7 | 271 | 303 | 310 | DOM; | |
| 12S/03E-20T54 | AROMAS | 6/30/69 | C.F. DOUGHERTY | 8 | 240 | 280 | 288 | DOM; | |
| 12S/03E-20T55 | AROMAS | 11/12/74 | C.F. DOUGHERTY | 8 | 68 | 108 | 116 | | |
| 12S/03E-20T56 | AROMAS | 9/2/76 | C.F. DOUGHERTY | 8 | 304 | 352 | 360 | DOM; | |
| 12S/03E-20T58 | AROMAS | 12/12/74 | C.F. DOUGHERTY | 8 | 208 | 342 | 350 | DOM; | |
| 12S/03E-21B01 | PAJARO-SPRINGFIELD | 8/24/61 | FREEDOM GEN REPAIR & PUMP | 12 | 322 | 442 | 450 | IND; | |
| 12S/03E-21B50 | AROMAS | 6/6/81 | MAGGIORA BROS | 16 | 320 | 450 | 505 | IRR; | |
| 12S/03E-21F50 | AROMAS | 2/12/78 | ASH & SONS | 7 | 245 | 277 | 277 | DOM; | |
| 12S/03E-21L50 | AROMAS | 6/21/82 | ASH & SONS | 5 | 340 | 380 | 400 | DOM; | |
| 12S/03E-21L51 | AROMAS | 7/15/82 | ASH & SONS | 5 | 424 | 494 | 502 | IRR; | |
| 12S/03E-21L52 | AROMAS | 2/26/81 | ASH & SONS | 5 | 292 | 352 | 360 | DOM; | |
| 12S/03E-21P50 | AROMAS | 4/7/79 | CLIFFORD PUMP & WELL | 8 | 175 | 205 | 240 | DOM | |
| 12S/03E-21P51 | AROMAS | 7/1/82 | ASH & SONS | 5 | 300 | 342 | 350 | DOM; | |
| 12S/03E-21T50 | AROMAS | 3/1/30 | C.F. DOUGHERTY | 8 | 144 | 184 | 192 | DOM; | |
| 12S/03E-21T51 | AROMAS | 6/3/76 | CLIFFORD PUMP & WELL | 8 | 260 | 292 | 316 | DOM | |
| 12S/03E-21T52 | AROMAS | 4/21/67 | C.F. DOUGHERTY | 8 | 192 | 232 | 240 | DOM; | |
| 12S/03E-21T53 | AROMAS | 6/4/74 | CHAPPELL PUMP & SUPPLY | 9 | 168 | 208 | 228 | DOM/IRR | |
| 12S/03E-21T54 | AROMAS | | ROBINETT & SONS | 10 | 120 | 400 | 405 | IRR; | |
| 12S/03E-21T55 | AROMAS | 10/1/73 | C.F. DOUGHERTY | 8 | 320 | 360 | 368 | DOM; | |
| 12S/03E-21T56 | AROMAS | 3/27/63 | C.F. DOUGHERTY | | | | 590 | | |
| 12S/03E-21T57 | AROMAS | 9/23/63 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-21T58 | AROMAS | 11/25/66 | C.F. DOUGHERTY | 8 | 232 | 272 | 280 | DOM; | |
| 12S/03E-21T59 | AROMAS | 3/29/68 | C.F. DOUGHERTY | 8 | 370 | 430 | 440 | DOM; | |
| 12S/03E-21T60 | PAJARO-SPRINGFIELD | 10/7/59 | C.F. DOUGHERTY | 12 | 25 | 80 | 88 | DOM; | |
| 12S/03E-22M51 | PRUNEDALE | 6/20/74 | ASH & SONS | 13 | 80 | 110 | 115 | DOM | |
| 12S/03E-22T50 | AROMAS | 11/10/65 | C.F. DOUGHERTY | 8 | 216 | 256 | 264 | DOM; | |
| 12S/03E-22T51 | AROMAS | 12/3/59 | C.F. DOUGHERTY | 10 | 340 | 580 | 580 | IRR; | |
| 12S/03E-22T52 | AROMAS | 7/30/65 | C.F. DOUGHERTY | 8 | 224 | 264 | 272 | DOM; | |
| 12S/03E-22T53 | AROMAS | 8/11/66 | C.F. DOUGHERTY | 10 | 104 | 144 | 152 | DOM; | |
| 12S/03E-24T50 | PRUNEDALE | 6/4/71 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 12S/03E-24T51 | PRUNEDALE | 9/8/58 | C & N PUMP & WELL CO | | | | 112 | | |
| 12S/03E-25T50 | PRUNEDALE | 7/23/66 | MAGGIORA BROS | 2 | | | 54 | | |
| 12S/03E-25T51 | PRUNEDALE | 10/29/56 | C & N PUMP & WELL CO | | | | 66 | | |
| 12S/03E-25T52 | PRUNEDALE | 12/10/54 | C.F. DOUGHERTY | 8 | 49 | 220 | 220 | DOM; | |
| 12S/03E-25T53 | PRUNEDALE | 9/1/73 | FREEDOM GEN REPAIR & PUMP | 8 | 33 | 49 | 48 | DOM; | |
| 12S/03E-27M50 | AROMAS | 3/5/69 | FREEDOM GEN REPAIR & PUMP | 6 | 170 | 202 | 204 | DOM; | |
| 12S/03E-27M51 | PRUNEDALE | 5/5/90 | ASH & SONS | 5 | 255 | 295 | 295 | DOM; | |
| 12S/03E-27M52 | PRUNEDALE | 9/19/69 | FREEDOM GEN REPAIR & PUMP | 6 | 152 | 184 | 184 | DOM; | |
| 12S/03E-27N50 | PRUNEDALE | 10/25/90 | ASH & SONS | 6 | 280 | 320 | 320 | DOM; | |
| 12S/03E-27N51 | PRUNEDALE | 2/15/91 | ASH & SONS | 6 | 272 | 312 | 312 | DOM | |
| 12S/03E-27P50 | AROMAS | 5/28/79 | ROMAN WELL DRILLING | 5 | 75 | 265 | 265 | DOM; | |
| 12S/03E-27P51 | AROMAS | 6/4/79 | ROMAN WELL DRILLING | 5 | 215 | 375 | 374 | DOM; | |
| 12S/03E-27P52 | PRUNEDALE | 10/7/85 | ROMAN WELL DRILLING | 12 | 134 | 544 | 550 | DOM; | |
| 12S/03E-27T50 | PRUNEDALE | 8/21/69 | C.F. DOUGHERTY | 8 | 168 | 208 | 216 | DOM; | |
| 12S/03E-27T51 | PRUNEDALE | 5/11/53 | C.F. DOUGHERTY | 8 | 102 | 132 | 150 | DOM; | |
| 12S/03E-27T52 | PRUNEDALE | 3/19/79 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | DOM; | |
| 12S/03E-27T53 | PRUNEDALE | 8/31/56 | C.F. DOUGHERTY | 10 | 130 | 164 | 172 | IRR; | |
| 12S/03E-27T54 | PRUNEDALE | 12/15/76 | MAGGIORA BROS | 5 | 70 | 350 | 370 | DOM; | |
| 12S/03E-28B02 | PRUNEDALE | 11/20/81 | ASH & SONS | 6 | 290 | 340 | 340 | DOM; | |
| 12S/03E-28B50 | AROMAS | 5/7/85 | ASH & SONS | 6 | 290 | 340 | 340 | DOM; | |
| 12S/03E-28C01 | PRUNEDALE | 6/27/77 | EDBERG DRILLING | | | | 310 | DOM; | |
| 12S/03E-28D01 | PRUNEDALE | 9/6/73 | DOUGHERTY PUMP & DRILLING | 10 | 274 | 334 | 344 | DOM; | |
| 12S/03E-28D50 | AROMAS | 3/2/78 | ASH & SONS | 7 | 240 | 270 | 272 | DOM; | |
| 12S/03E-28D51 | AROMAS | 9/6/73 | SALINAS PUMP CO | 10 | 274 | 334 | 344 | DOM; | |
| 12S/03E-28D52 | PRUNEDALE | 11/27/76 | CLIFFORD PUMP & WELL | 6 | 280 | 310 | 360 | DOM | |
| 12S/03E-28E50 | PRUNEDALE | | | | | | | | DESTROYED |
| 12S/03E-28G50 | AROMAS | 5/12/78 | MAGGIORA BROS | 13 | 230 | 300 | 310 | DOM; | |
| 12S/03E-28H50 | PRUNEDALE | 10/9/87 | ASH & SONS | 5 | 260 | 300 | 260 | DOM; | |
| 12S/03E-28H51 | PRUNEDALE | 10/14/87 | ASH & SONS | 5 | 260 | 300 | 301 | DOM; | |
| 12S/03E-28H52 | PRUNEDALE | 1/28/89 | ASH & SONS | 5 | 340 | 380 | 390 | DOM; | |
| 12S/03E-28J50 | AROMAS | 5/30/77 | CLIFFORD PUMP & WELL | 8 | 275 | 295 | 315 | DOM | |
| 12S/03E-28J51 | PRUNEDALE | 9/25/84 | ASH & SONS | 6 | 260 | 300 | 310 | DOM; | |
| 12S/03E-28J52 | PRUNEDALE | 3/17/89 | C.F. DOUGHERTY | 5 | 216 | 356 | 360 | DOM; | |
| 12S/03E-28K50 | PRUNEDALE | 6/13/90 | ASH & SONS | 6 | 206 | 246 | 249 | DOM; | |
| 12S/03E-28K51 | PRUNEDALE | 7/5/84 | ASH & SONS | 6 | 210 | 250 | 255 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-28L50 | PRUNEDALE | 6/11/86 | ASH & SONS | 5 | 240 | 280 | 285 | DOM; | |
| 12S/03E-28M50 | PRUNEDALE | 5/18/60 | C.F. DOUGHERTY | 10 | 32 | 72 | 80 | DOM; | |
| 12S/03E-28M51 | PRUNEDALE | 10/26/66 | SALINAS PUMP CO | 12 | 240 | 600 | 609 | DOM;IRR; | |
| 12S/03E-28M52 | PRUNEDALE | 2/24/86 | ASH & SONS | 8 | 220 | 300 | 303 | IRR; | |
| 12S/03E-28M53 | PRUNEDALE | 1/7/85 | DE LA GRANGE & SON | 6 | 156 | 196 | 200 | DOM; | |
| 12S/03E-28M54 | PRUNEDALE | 9/19/85 | ASH & SONS | 5 | 220 | 240 | 265 | DOM; | |
| 12S/03E-28M55 | PRUNEDALE | 12/19/85 | ASH & SONS | 5 | 140 | 180 | 185 | DOM; | |
| 12S/03E-28P50 | PRUNEDALE | 7/25/79 | ASH & SONS | 6 | 203 | 235 | 235 | DOM; | |
| 12S/03E-28R50 | AROMAS | 8/31/77 | CLIFFORD PUMP & WELL | 6 | 260 | 290 | 307 | DOM | |
| 12S/03E-28R51 | PRUNEDALE | 7/2/86 | ASH & SONS | 5 | 300 | 340 | 345 | DOM; | |
| 12S/03E-28T50 | PRUNEDALE | 2/10/80 | CLIFFORD PUMP & WELL | | | | 601 | | |
| 12S/03E-28T51 | PRUNEDALE | 7/7/78 | MAGGIORA BROS | 12 | 250 | 280 | 310 | DOM; | |
| 12S/03E-28T52 | AROMAS | 5/16/78 | MAGGIORA BROS | 12 | 190 | 360 | 370 | DOM; | |
| 12S/03E-28T54 | AROMAS | 10/24/73 | MAGGIORA BROS | 12 | 155 | 220 | 220 | DOM; | |
| 12S/03E-28T55 | AROMAS | 10/28/80 | C.F. DOUGHERTY | 8 | 284 | 324 | 332 | DOM; | |
| 12S/03E-28T56 | PRUNEDALE | 2/10/80 | CLIFFORD PUMP & WELL | 12 | 240 | 470 | 495 | IRR | |
| 12S/03E-28T57 | AROMAS | 11/28/80 | C.F. DOUGHERTY | 8 | 344 | 384 | 392 | DOM; | |
| 12S/03E-28T58 | PRUNEDALE | 6/8/84 | CHAPPELL PUMP & SUPPLY | 6 | 150 | 270 | 280 | DOM; | |
| 12S/03E-28T59 | AROMAS | 6/30/78 | MAGGIORA BROS | 12 | 250 | 300 | 325 | DOM; | |
| 12S/03E-28T60 | AROMAS | 6/20/83 | ASH & SONS | 5 | 240 | 280 | 286 | DOM; | |
| 12S/03E-28T61 | AROMAS | 6/28/78 | MAGGIORA BROS | 6 | 240 | 290 | 325 | DOM; | |
| 12S/03E-28T62 | PRUNEDALE | 2/10/80 | CLIFFORD PUMP & WELL | | | | 502 | | |
| 12S/03E-28T63 | PRUNEDALE | 2/10/80 | CLIFFORD PUMP & WELL | | | | 707 | | |
| 12S/03E-28T64 | PRUNEDALE | 10/24/69 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 12S/03E-28T65 | PRUNEDALE | 2/10/80 | CLIFFORD PUMP & WELL | | | | 436 | | |
| 12S/03E-28T66 | PRUNEDALE | 11/17/75 | ASH & SONS | 7 | 168 | 200 | 200 | DOM; | |
| 12S/03E-28T67 | PRUNEDALE | 2/10/77 | C.F. DOUGHERTY | 8 | 280 | 320 | 328 | DOM; | |
| 12S/03E-28T68 | AROMAS | 6/26/80 | ASH & SONS | 6 | 318 | 350 | 360 | DOM; | |
| 12S/03E-28T69 | AROMAS | 10/8/78 | CHAPPELL PUMP & SUPPLY | 8 | 110 | 370 | 400 | DOM/IRR | |
| 12S/03E-29C01 | PRUNEDALE | 12/1/72 | DOUGHERTY PUMP & DRILLING | 8 | 184 | 224 | 232 | DOM; | |
| 12S/03E-29G50 | PRUNEDALE | 10/3/89 | ASH & SONS | 5 | 160 | 200 | 210 | | |
| 12S/03E-29H01 | PRUNEDALE | 1/1/50 | LITCHFIELD | 12 | 106 | 130 | 169 | IRR; | |
| 12S/03E-29H02 | PRUNEDALE | | | 10 | | | 300 | DOM; | |
| 12S/03E-29H50 | PRUNEDALE | 7/26/87 | C.F. DOUGHERTY | | | | 151 | | DES |
| 12S/03E-29H51 | PRUNEDALE | 9/9/88 | ASH & SONS | 5 | 160 | 200 | 205 | DOM; | |
| 12S/03E-29H52 | PRUNEDALE | 5/12/81 | ASH & SONS | 5 | 126 | 156 | 159 | DOM; | |
| 12S/03E-29J50 | PRUNEDALE | 3/1/89 | C.F. DOUGHERTY | 8 | 220 | 300 | 400 | IRR; | |
| 12S/03E-29J51 | PRUNEDALE | 9/19/91 | DOUGHERTY PUMP & DRILLING | 6 | 220 | 280 | 300 | DOM | |
| 12S/03E-29Q50 | PAJARO-SPRINGFIELD | 4/18/77 | MAGGIORA BROS | 26 | 340 | 430 | 455 | IRR; | |
| 12S/03E-29R50 | PRUNEDALE | 5/7/81 | ASH & SONS | 5 | 210 | 242 | 250 | DOM; | |
| 12S/03E-30A01 | PRUNEDALE | 4/8/56 | VALLEY PUMP | 12 | 141 | 225 | 225 | IRR; | |
| 12S/03E-30A50 | PRUNEDALE | 3/9/82 | C.F. DOUGHERTY | 8 | 132 | 184 | 192 | IRR; | |
| 12S/03E-30B50 | PRUNEDALE | 6/22/88 | ASH & SONS | 5 | 360 | 400 | 415 | DOM; | |
| 12S/03E-30B51 | PRUNEDALE | 12/7/88 | ASH & SONS | 5 | 360 | 420 | 423 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-30B52 | PRUNEDALE | 10/13/87 | ASH & SONS | 5 | 360 | 400 | 403 | DOM; | |
| 12S/03E-30B53 | PRUNEDALE | 10/22/72 | ASH & SONS | 7 | 120 | 156 | 160 | DOM; | |
| 12S/03E-30B54 | PRUNEDALE | 11/30/88 | ASH & SONS | 5 | 375 | 415 | 420 | DOM; | |
| 12S/03E-30B55 | PAJARO-SPRINGFIELD | 12/25/00 | ASH & SONS | 5 | 320 | 360 | 360 | DOM | |
| 12S/03E-30C50 | PRUNEDALE | 2/17/87 | ASH & SONS | 5 | 320 | 360 | 375 | DOM; | |
| 12S/03E-30C51 | PRUNEDALE | 8/17/84 | C.F. DOUGHERTY | 8 | 280 | 320 | 328 | DOM; | |
| 12S/03E-30D50 | PRUNEDALE | 10/11/77 | ASH & SONS | 7 | 204 | 236 | 236 | DOM; | |
| 12S/03E-30D51 | PRUNEDALE | 2/5/84 | C.F. DOUGHERTY | 8 | 296 | 336 | 344 | DOM; | |
| 12S/03E-30D52 | PRUNEDALE | 12/8/82 | ASH & SONS | 8 | 190 | 270 | 283 | IRR; | |
| 12S/03E-30D53 | PRUNEDALE | 12/8/82 | ASH & SONS | 8 | 190 | 270 | 283 | IRR; | |
| 12S/03E-30E50 | PRUNEDALE | 9/7/83 | MAGGIORA BROS | 6 | 130 | 200 | 220 | DOM; | |
| 12S/03E-30E51 | PRUNEDALE | 11/13/82 | MAGGIORA BROS | 6 | 130 | 180 | 205 | DOM; | |
| 12S/03E-30F50 | PRUNEDALE | 10/17/77 | ASH & SONS | 6 | 200 | 232 | 232 | DOM; | |
| 12S/03E-30K50 | AROMAS | 11/11/81 | ASH & SONS | 6 | 180 | 220 | 230 | IRR; | |
| 12S/03E-30L01 | PRUNEDALE | 4/11/73 | ASH & SONS | 7 | 99 | 135 | 135 | DOM; | |
| 12S/03E-30L50 | PRUNEDALE | 11/12/86 | ASH & SONS | 6 | 280 | 320 | 325 | DOM; | |
| 12S/03E-30L51 | PRUNEDALE | 5/22/92 | ASH & SONS | 6 | 340 | 380 | 380 | DOM; | |
| 12S/03E-30N50 | PAJARO-SPRINGFIELD | 5/31/51 | C.F. DOUGHERTY | 12 | 60 | 81 | 90 | DOM; | |
| 12S/03E-30N51 | PRUNEDALE | 7/8/92 | ASH & SONS | 6 | 240 | 280 | 280 | DOM; | |
| 12S/03E-30P50 | PRUNEDALE | 6/29/81 | MAGGIORA BROS | 10 | 260 | 320 | 340 | IRR; | |
| 12S/03E-30Q50 | PRUNEDALE | 9/17/77 | ASH & SONS | 7 | 159 | 192 | 192 | DOM; | |
| 12S/03E-30Q51 | PRUNEDALE | 7/9/86 | ASH & SONS | 6 | 220 | 260 | 265 | DOM; | |
| 12S/03E-30Q52 | PRUNEDALE | 10/23/85 | ASH & SONS | 6 | 315 | 355 | 370 | DOM; | |
| 12S/03E-30R50 | PRUNEDALE | 2/23/82 | ASH & SONS | 5 | 275 | 315 | 318 | DOM; | |
| 12S/03E-30R51 | PRUNEDALE | 10/6/77 | ASH & SONS | 7 | 213 | 245 | 245 | DOM; | |
| 12S/03E-30T50 | PRUNEDALE | 7/9/58 | JOHN A BRANDT | 8 | 36 | 48 | 60 | | |
| 12S/03E-30T51 | PRUNEDALE | 4/25/75 | ASH & SONS | 7 | 228 | 260 | 275 | DOM; | |
| 12S/03E-30T52 | PRUNEDALE | 10/2/61 | C.F. DOUGHERTY | 10 | 237 | 317 | 325 | DOM; | |
| 12S/03E-30T53 | PRUNEDALE | 10/26/60 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 12S/03E-30T54 | PRUNEDALE | 4/18/61 | C.F. DOUGHERTY | 8 | 144 | 184 | 192 | DOM; | |
| 12S/03E-30T55 | PRUNEDALE | 2/28/75 | ASH & SONS | 7 | 328 | 360 | 380 | DOM; | |
| 12S/03E-30T56 | PRUNEDALE | 2/23/66 | FREEDOM GEN REPAIR & PUMP | | | | 150 | | |
| 12S/03E-30T57 | PRUNEDALE | 3/12/79 | MAGGIORA BROS | 12 | 160 | 430 | 460 | DOM; | |
| 12S/03E-30T58 | PRUNEDALE | 9/15/73 | ASH & SONS | 7 | 114 | 150 | 160 | DOM; | |
| 12S/03E-30T59 | PRUNEDALE | 4/30/74 | C.F. DOUGHERTY | 8 | 192 | 232 | 240 | DOM; | |
| 12S/03E-30T60 | PRUNEDALE | 10/9/63 | C.F. DOUGHERTY | 10 | 64 | 124 | 132 | | |
| 12S/03E-30T61 | PRUNEDALE | 4/23/60 | C.F. DOUGHERTY | 8 | 116 | 156 | 164 | DOM; | |
| 12S/03E-30T62 | PRUNEDALE | 11/22/68 | FREEDOM GEN REPAIR & PUMP | 10 | 106 | 158 | 164 | IRR; | |
| 12S/03E-30T63 | PRUNEDALE | 1/26/79 | CULLUM SYSTEMS | 8 | 300 | 400 | 415 | DOM; | |
| 12S/03E-30T64 | PRUNEDALE | 2/27/75 | ASH & SONS | 7 | 160 | 192 | 205 | DOM; | |
| 12S/03E-30T65 | PRUNEDALE | 6/9/80 | MAGGIORA BROS | 26 | 370 | 621 | 650 | IRR; | |
| 12S/03E-30T66 | PRUNEDALE | 2/16/76 | ASH & SONS | 7 | 134 | 166 | 166 | DOM; | |
| 12S/03E-30T67 | PRUNEDALE | 4/20/66 | FREEDOM GEN REPAIR & PUMP | 6 | 79 | 115 | 116 | DOM; | |
| 12S/03E-30T68 | PRUNEDALE | 6/18/68 | C.F. DOUGHERTY | 12 | 178 | 258 | 284 | IRR; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-30T69 | PRUNEDALE | 7/15/72 | C.F. DOUGHERTY | 10 | 84 | 144 | 152 | DOM; | |
| 12S/03E-30T70 | PRUNEDALE | 8/9/76 | ASH & SONS | 7 | 128 | 160 | 175 | DOM; | |
| 12S/03E-30T71 | PRUNEDALE | 3/16/75 | ASH & SONS | 7 | 208 | 240 | 252 | DOM; | |
| 12S/03E-30T72 | PRUNEDALE | 9/18/79 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 12S/03E-30T73 | PRUNEDALE | 3/4/72 | ASH & SONS | 6 | 300 | 332 | 345 | DOM; | |
| 12S/03E-30T74 | PRUNEDALE | 4/8/60 | ASH & SONS | 12 | 200 | 360 | 380 | IRR; | |
| 12S/03E-30T75 | PRUNEDALE | 10/29/75 | ASH & SONS | 7 | 271 | 303 | 308 | DOM; | |
| 12S/03E-30T76 | PRUNEDALE | 5/23/75 | C.F. DOUGHERTY | 8 | 200 | 240 | 252 | IRR; | |
| 12S/03E-30T77 | PRUNEDALE | 7/10/74 | C.F. DOUGHERTY | 8 | 72 | 112 | 120 | DOM; | |
| 12S/03E-30T78 | PRUNEDALE | 10/31/80 | CULLUM SYSTEMS | 10 | 68 | 184 | 192 | DOM; | |
| 12S/03E-30T79 | PRUNEDALE | 7/6/66 | SALINAS PUMP CO | 10 | 120 | 260 | 273 | IRR; | |
| 12S/03E-30T80 | PRUNEDALE | 9/5/75 | ASH & SONS | 7 | 304 | 340 | 345 | DOM; | |
| 12S/03E-30T81 | PRUNEDALE | 7/24/68 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 12S/03E-30T82 | PRUNEDALE | 5/26/76 | C.F. DOUGHERTY | 8 | 156 | 256 | 112 | IRR; | |
| 12S/03E-30T83 | PRUNEDALE | 6/6/68 | C.F. DOUGHERTY | 10 | 120 | 160 | 168 | DOM; | |
| 12S/03E-30T84 | PRUNEDALE | 8/17/72 | C.F. DOUGHERTY | 8 | 208 | 248 | 256 | DOM; | |
| 12S/03E-30T85 | PRUNEDALE | 6/27/66 | SALINAS PUMP CO | 12 | 96 | 312 | 318 | IRR; | |
| 12S/03E-30T86 | PRUNEDALE | 6/15/79 | EARTHFLOW DRILLING | 5 | 231 | 381 | 395 | DOM; | |
| 12S/03E-30T87 | PRUNEDALE | 9/20/76 | ROBINETT & SONS | 8 | 289 | 328 | 328 | DOM; | |
| 12S/03E-30T88 | PRUNEDALE | 5/8/79 | MAGGIORA BROS | 20 | 200 | 250 | 280 | IRR; | |
| 12S/03E-30T89 | PRUNEDALE | 4/3/92 | ROBINETT & SONS | 6 | 295 | 395 | 395 | DOM; | |
| 12S/03E-31B01 | PRUNEDALE | | | | | | | DOM; | |
| 12S/03E-31C50 | | | | | | | | | |
| 12S/03E-31D01 | PRUNEDALE | | | 6 | | | 220 | DOM; | |
| 12S/03E-31D02 | PRUNEDALE | | | 8 | | | 150 | DOM; | |
| 12S/03E-31D50 | PRUNEDALE | 3/17/78 | C.F. DOUGHERTY | 8 | 308 | 350 | 360 | DOM; | |
| 12S/03E-31E01 | PRUNEDALE | 4/1/57 | BELKNAP | 8 | 92 | 148 | 170 | DOM; | |
| 12S/03E-31E02 | PRUNEDALE | | | 6 | | | 240 | DOM; | |
| 12S/03E-31E03 | PRUNEDALE | 1/23/76 | ASH & SONS | 7 | 233 | 265 | 265 | DOM; | |
| 12S/03E-31E50 | PRUNEDALE | 11/9/89 | C.F. DOUGHERTY | 5 | 300 | 360 | 360 | DOM | |
| 12S/03E-31F01 | PRUNEDALE | | | 7 | | | 160 | DOM; | |
| 12S/03E-31F50 | PRUNEDALE | 4/12/90 | ASH & SONS | 5 | 430 | 470 | 480 | DOM; | |
| 12S/03E-31G01 | PRUNEDALE | 5/1/55 | GUNN | 8 | 147 | 156 | 156 | DOM; | |
| 12S/03E-31G50 | PRUNEDALE | 10/27/89 | ASH & SONS | 6 | 270 | 310 | 345 | DOM; | |
| 12S/03E-31J50 | PRUNEDALE | 2/3/57 | C.F. DOUGHERTY | 8 | 108 | 210 | 210 | DOM; | |
| 12S/03E-31J51 | PRUNEDALE | 7/29/83 | LANDINO | 6 | 160 | 240 | 250 | DOM; | |
| 12S/03E-31J52 | PRUNEDALE | 8/17/83 | LANDINO | 6 | 350 | 490 | 500 | DOM; | |
| 12S/03E-31M50 | PRUNEDALE | 8/10/83 | ASH & SONS | | 462 | 502 | 502 | DOM; | |
| 12S/03E-31P50 | PRUNEDALE | 9/25/50 | NUNES | 10 | 67 | 282 | 310 | DOM;IRR; | |
| 12S/03E-31P51 | PRUNEDALE | 1/13/81 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 12S/03E-31R01 | PRUNEDALE | 7/3/54 | C.F. DOUGHERTY | 8 | 212 | 244 | 252 | DOM; | |
| 12S/03E-31R50 | PRUNEDALE | 5/3/89 | ASH & SONS | 5 | 260 | 300 | 302 | DOM; | |
| 12S/03E-31T50 | PRUNEDALE | 10/10/75 | MAGGIORA BROS | 9 | 230 | 330 | 340 | DOM | |
| 12S/03E-31T51 | PRUNEDALE | 1/29/52 | C.F. DOUGHERTY | 8 | 84 | 114 | 123 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-31T52 | PRUNEDALE | 3/27/80 | ASH & SONS | 5 | 233 | 273 | 285 | DOM; | |
| 12S/03E-31T53 | PRUNEDALE | 9/16/53 | C.F. DOUGHERTY | 8 | 68 | 120 | 128 | DOM; | |
| 12S/03E-31T54 | PRUNEDALE | 9/27/72 | ASH & SONS | 7 | 253 | 289 | 305 | DOM; | |
| 12S/03E-31T55 | PRUNEDALE | 6/25/71 | CLIFFORD PUMP & WELL | 12 | 270 | 300 | 330 | IRR | |
| 12S/03E-31T56 | PRUNEDALE | 9/25/73 | ASH & SONS | 7 | 234 | 270 | 270 | DOM; | |
| 12S/03E-31T57 | PRUNEDALE | 9/1/66 | C.F. DOUGHERTY | 8 | 212 | 252 | 260 | DOM; | |
| 12S/03E-31T58 | PRUNEDALE | 6/22/59 | C.F. DOUGHERTY | 8 | 110 | 152 | 160 | DOM; | |
| 12S/03E-31T59 | PRUNEDALE | 10/24/61 | C.F. DOUGHERTY | 8 | 72 | 112 | 120 | DOM; | |
| 12S/03E-31T60 | PRUNEDALE | 6/15/65 | C.F. DOUGHERTY | 8 | 256 | 296 | 304 | DOM; | |
| 12S/03E-31T61 | PRUNEDALE | 4/24/76 | ASH & SONS | 7 | 288 | 320 | 320 | DOM; | |
| 12S/03E-31T62 | PRUNEDALE | 8/3/70 | CLIFFORD PUMP & WELL | 12 | 344 | 404 | 412 | IRR | |
| 12S/03E-31T63 | PRUNEDALE | 9/7/62 | C.F. DOUGHERTY | 8 | 192 | 232 | 240 | DOM | |
| 12S/03E-31T64 | PRUNEDALE | 1/20/80 | C.F. DOUGHERTY | 8 | 172 | 220 | 228 | DOM; | |
| 12S/03E-31T65 | PRUNEDALE | 12/10/71 | ASH & SONS | 6 | 200 | 236 | 250 | DOM; | |
| 12S/03E-31T66 | PRUNEDALE | 8/5/50 | C.F. DOUGHERTY | 8 | 159 | 180 | 189 | DOM; | |
| 12S/03E-31T67 | PRUNEDALE | 1/4/62 | C.F. DOUGHERTY | 10 | 124 | 164 | 172 | DOM; | |
| 12S/03E-31T69 | PRUNEDALE | 2/15/63 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 12S/03E-31T70 | PRUNEDALE | 5/25/66 | FREEDOM GEN REPAIR & PUMP | | | | 217 | DOM; | |
| 12S/03E-31T71 | PRUNEDALE | 2/14/64 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 12S/03E-31T72 | PRUNEDALE | 3/31/62 | C.F. DOUGHERTY | 12 | | | 340 | DOM; | |
| 12S/03E-31T73 | PRUNEDALE | 2/2/72 | CLIFFORD PUMP & WELL | 8 | 301 | 361 | 361 | DOM | |
| 12S/03E-31T74 | PRUNEDALE | 2/6/64 | C.F. DOUGHERTY | 10 | 72 | 112 | 120 | DOM; | |
| 12S/03E-31T75 | PRUNEDALE | 6/18/58 | C.F. DOUGHERTY | 8 | 200 | 240 | 248 | DOM; | |
| 12S/03E-31T76 | PRUNEDALE | 9/10/80 | ASH & SONS | 5 | 360 | 400 | 410 | DOM; | |
| 12S/03E-31T77 | PRUNEDALE | 7/12/61 | ASH & SONS | 12 | 264 | 316 | 345 | DOM; | |
| 12S/03E-31T78 | PRUNEDALE | 3/22/65 | C.F. DOUGHERTY | 7 | 284 | 324 | 372 | DOM; | |
| 12S/03E-31T79 | PRUNEDALE | 8/17/59 | C.F. DOUGHERTY | 8 | 224 | 276 | 292 | DOM; | |
| 12S/03E-31T80 | PRUNEDALE | 2/3/65 | C.F. DOUGHERTY | 8 | 180 | 220 | 228 | DOM; | |
| 12S/03E-31T81 | PRUNEDALE | 5/6/61 | C.F. DOUGHERTY | 8 | 80 | 120 | 128 | DOM; | |
| 12S/03E-31T82 | PRUNEDALE | 9/21/79 | ASH & SONS | 6 | 280 | 312 | 312 | DOM; | |
| 12S/03E-31T83 | PRUNEDALE | 8/2/52 | C.F. DOUGHERTY | 8 | 54 | 84 | 93 | DOM; | |
| 12S/03E-31T84 | PRUNEDALE | 6/3/54 | C.F. DOUGHERTY | 8 | 212 | 244 | 252 | DOM; | |
| 12S/03E-31T85 | PRUNEDALE | 7/6/81 | MAGGIORA BROS | 8 | 220 | 300 | 325 | IRR; | |
| 12S/03E-31T86 | PAJARO-SPRINGFIELD | 9/2/93 | ASH & SONS | 6 | 340 | 380 | 380 | DOM | |
| 12S/03E-32N01 | PRUNEDALE | 9/9/72 | ASH & SONS | 9 | 265 | 313 | 313 | DOM; | |
| 12S/03E-32N50 | PRUNEDALE | 3/20/62 | C.F. DOUGHERTY | 12 | 200 | 334 | 342 | | |
| 12S/03E-32P50 | PRUNEDALE | 1/1/66 | | | 254 | 286 | | DOM; | |
| 12S/03E-33B50 | PRUNEDALE | 7/29/85 | EATON | 9 | 340 | 440 | 440 | DOM; | |
| 12S/03E-33D50 | PRUNEDALE | 7/25/68 | FREEDOM GEN REPAIR & PUMP | 8 | 86 | 126 | 200 | DOM; | |
| 12S/03E-33H01 | PRUNEDALE | 6/2/62 | C.F. DOUGHERTY | 10 | 335 | 445 | 542 | DOM; | |
| 12S/03E-33H50 | PRUNEDALE | 9/1/79 | MAGGIORA BROS | 10 | 20 | 60 | 60 | DOM; | |
| 12S/03E-33J01 | PRUNEDALE | 11/7/75 | MAGGIORA BROS | 86 | 80 | 220 | 220 | DOM; | |
| 12S/03E-33J50 | PRUNEDALE | 11/21/75 | MAGGIORA BROS | 8 | 80 | 280 | 280 | DOM; | |
| 12S/03E-33J51 | PRUNEDALE | 10/14/82 | ASH & SONS | 5 | 466 | 506 | 530 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-33J52 | PRUNEDALE | 5/20/90 | ASH & SONS | 5 | 455 | 515 | 520 | DOM; | |
| 12S/03E-33K50 | PRUNEDALE | 12/5/87 | MAGGIORA BROS | 6 | 290 | 450 | 450 | DOM; | |
| 12S/03E-33K51 | PRUNEDALE | 10/14/81 | ASH & SONS | | | | 345 | | HOLE; |
| 12S/03E-33L03 | PRUNEDALE | 8/19/70 | MAGGIORA BROS | 30 | 20 | 60 | 61 | DOM; | |
| 12S/03E-33L04 | PRUNEDALE | 8/28/70 | MAGGIORA BROS | 30 | 10 | 30 | 31 | DOM; | |
| 12S/03E-33L50 | PRUNEDALE | 5/4/81 | MAGGIORA BROS | 9 | 115 | 175 | 176 | DOM; | |
| 12S/03E-33L51 | PRUNEDALE | 5/7/81 | MAGGIORA BROS | 9 | 148 | 348 | 350 | DOM; | |
| 12S/03E-33L52 | PRUNEDALE | 9/15/81 | ASH & SONS | 5 | 276 | 336 | 345 | DOM | |
| 12S/03E-33P50 | PRUNEDALE | 6/15/83 | MAGGIORA BROS | 5 | 98 | 358 | 378 | DOM; | |
| 12S/03E-33R50 | PRUNEDALE | 6/10/87 | ASH & SONS | 5 | 365 | 405 | 405 | DOM; | |
| 12S/03E-33T50 | PRUNEDALE | 1/17/69 | CLIFFORD PUMP & WELL | 30 | 20 | 39 | 40 | DOM | |
| 12S/03E-33T51 | PRUNEDALE | | ROBINETT & SONS | 8 | 150 | 206 | 206 | DOM; | |
| 12S/03E-33T52 | PRUNEDALE | 5/24/80 | ASH & SONS | 8 | 360 | 400 | 410 | DOM;IRR; | |
| 12S/03E-33T53 | PRUNEDALE | 4/18/80 | MAGGIORA BROS | 5 | 70 | 380 | 380 | DOM; | |
| 12S/03E-33T54 | PRUNEDALE | | ROBINETT & SONS | 8 | 130 | 192 | 192 | DOM; | |
| 12S/03E-33T55 | PRUNEDALE | 10/15/74 | CLIFFORD PUMP & WELL | 13 | 340 | 500 | 505 | DOM | |
| 12S/03E-33T56 | PRUNEDALE | 2/11/87 | ASH & SONS | 5 | 260 | 300 | 302 | DOM; | |
| 12S/03E-33T57 | PRUNEDALE | 11/18/80 | ROBINETT & SONS | 6 | 156 | 256 | 256 | DOM; | |
| 12S/03E-33T58 | PRUNEDALE | 9/26/84 | MAGGIORA BROS | 5 | 75 | 175 | 210 | DOM; | |
| 12S/03E-34C01 | PRUNEDALE | | | | | | | DOM; | |
| 12S/03E-34D50 | PRUNEDALE | 5/17/85 | ASH & SONS | 5 | 200 | 240 | 245 | DOM; | |
| 12S/03E-34M50 | PRUNEDALE | 3/30/88 | ASH & SONS | 5 | 260 | 300 | 306 | DOM; | |
| 12S/03E-34M51 | PRUNEDALE | 5/26/88 | ASH & SONS | 5 | 270 | 330 | 333 | DOM; | |
| 12S/03E-34M52 | PRUNEDALE | 5/4/92 | ASH & SONS | 5 | 272 | 312 | 312 | DOM; | |
| 12S/03E-34M53 | PRUNEDALE | 4/23/92 | ASH & SONS | 5 | 540 | 600 | 600 | DOM; | |
| 12S/03E-34M54 | PRUNEDALE | 7/2/92 | ASH & SONS | 5 | 275 | 315 | 315 | DOM | |
| 12S/03E-34N50 | PRUNEDALE | 8/28/75 | MAGGIORA BROS | 16 | 130 | 340 | 360 | DOM; | |
| 12S/03E-34P50 | PRUNEDALE | 2/2/79 | SALINAS PUMP CO | 8 | 80 | 220 | 304 | DOM; | |
| 12S/03E-34T50 | PRUNEDALE | 6/28/54 | C.F. DOUGHERTY | 8 | 72 | 104 | 112 | DOM; | |
| 12S/03E-34T51 | PRUNEDALE | 1/20/75 | CLIFFORD PUMP & WELL | 26 | 90 | 390 | 415 | IRR | |
| 12S/03E-34T52 | PRUNEDALE | 8/16/66 | C.F. DOUGHERTY | 8 | 80 | 120 | 128 | DOM; | |
| 12S/03E-34T53 | PRUNEDALE | 10/10/60 | C.F. DOUGHERTY | 8 | 84 | 126 | 148 | IRR; | |
| 12S/03E-34T54 | PRUNEDALE | 2/5/62 | C.F. DOUGHERTY | 8 | 68 | 108 | 163 | DOM; | |
| 12S/03E-34T55 | PRUNEDALE | 1/14/72 | CLIFFORD PUMP & WELL | 30 | 30 | 60 | 60 | DOM | |
| 12S/03E-34T56 | PRUNEDALE | 12/22/76 | MAGGIORA BROS | 5 | 150 | 350 | 350 | DOM; | |
| 12S/03E-34T57 | PRUNEDALE | 8/17/54 | C.F. DOUGHERTY | 8 | 210 | 296 | 304 | DOM; | |
| 12S/03E-34T58 | PRUNEDALE | 4/7/54 | SALINAS PUMP CO | 8 | 120 | 252 | 280 | IRR; | |
| 12S/03E-34T59 | PRUNEDALE | 6/7/75 | CLIFFORD PUMP & WELL | 5 | 200 | 280 | 280 | DOM | |
| 12S/03E-34T60 | PRUNEDALE | 7/21/62 | C.F. DOUGHERTY | 8 | 60 | 100 | 128 | DOM; | |
| 12S/03E-34T61 | PRUNEDALE | 12/12/79 | MAGGIORA BROS | 8 | 40 | 205 | 205 | DOM; | |
| 12S/03E-34T62 | AROMAS | 7/30/80 | MAGGIORA BROS | 8 | 400 | 400 | 420 | DOM;IRR; | |
| 12S/03E-34T63 | PAJARO-SPRINGFIELD | 12/31/91 | ROBINETT & SONS | 6 | 295 | 395 | 395 | DOM; | |
| 12S/03E-34T64 | PRUNEDALE | 6/20/93 | ASH & SONS | 5 | 204 | 534 | 534 | DOM | |
| 12S/03E-34T65 | PRUNEDALE | 7/12/93 | ASH & SONS | 5 | 294 | 324 | 324 | DOM | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 12S/03E-80T50 | PAJARO-SPRINGFIELD | 7/19/91 | ASH & SONS | 5 | 320 | 360 | 360 | DOM | |
| 12S/03E-80T51 | PAJARO-SPRINGFIELD | 10/1/93 | ASH & SONS | 5 | 459 | 499 | 499 | DOM | |
| 13S/02E-01A50 | PRUNEDALE | 5/20/87 | ASH & SONS | 5 | 560 | 620 | 625 | DOM; | |
| 13S/02E-01A51 | PRUNEDALE | 4/10/87 | ASH & SONS | 5 | 530 | 570 | 640 | | ABAN; |
| 13S/02E-01B01 | PRUNEDALE | | | 8 | | | 320 | DOM; | |
| 13S/02E-01B02 | PRUNEDALE | 7/29/72 | ASH & SONS | 66 | 240 | 276 | 290 | DOM; | |
| 13S/02E-01B03 | PRUNEDALE | 6/1/59 | | 6 | 250 | 335 | 500 | DOM; | |
| 13S/02E-01B50 | PRUNEDALE | 4/20/90 | ASH & SONS | 8 | 404 | 444 | 505 | DOM; | |
| 13S/02E-01C01 | PRUNEDALE | 8/12/59 | ASH & SONS | 8 | 350 | 500 | 500 | DOM; | |
| 13S/02E-01C02 | PRUNEDALE | 5/8/67 | ASH & SONS | 6 | 420 | 472 | 476 | MUN; | |
| 13S/02E-01D50 | PRUNEDALE | 4/1/61 | ASH & SONS | 12 | | | 352 | DOM;IRR; | |
| 13S/02E-01D51 | PRUNEDALE | 12/6/75 | ASH & SONS | 7 | 298 | 330 | 345 | DOM; | |
| 13S/02E-01E50 | PRUNEDALE | 11/16/84 | ASH & SONS | 5 | 440 | 500 | 520 | DOM; | |
| 13S/02E-01E51 | PRUNEDALE | 8/21/92 | SALINAS PUMP CO | | | | 540 | | DES |
| 13S/02E-01F01 | PRUNEDALE | | | 10 | | | 400 | DOM; | |
| 13S/02E-01F50 | PRUNEDALE | 2/17/89 | ASH & SONS | 5 | 405 | 445 | 460 | DOM; | |
| 13S/02E-01F51 | PRUNEDALE | 2/2/89 | ASH & SONS | 5 | 360 | 400 | 403 | DOM; | |
| 13S/02E-01G01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-01J50 | PRUNEDALE | 4/10/92 | ASH & SONS | | | | 197 | | DES; |
| 13S/02E-01K01 | PRUNEDALE | 3/26/59 | C.F. DOUGHERTY | 10 | 224 | 264 | 272 | IRR; | |
| 13S/02E-01K50 | PRUNEDALE | 10/18/85 | ASH & SONS | 5 | 315 | 355 | 365 | DOM; | |
| 13S/02E-01M50 | PRUNEDALE | 10/21/88 | ASH & SONS | 5 | 240 | 280 | 294 | DOM; | |
| 13S/02E-01M51 | PRUNEDALE | 3/1/86 | ASH & SONS | 5 | 260 | 300 | 315 | DOM; | |
| 13S/02E-01M52 | PRUNEDALE | 6/28/79 | C.F. DOUGHERTY | 8 | 336 | 376 | 384 | DOM; | |
| 13S/02E-01M53 | PRUNEDALE | 5/2/86 | ASH & SONS | 5 | 300 | 360 | 370 | DOM; | |
| 13S/02E-01M54 | PRUNEDALE | 7/25/83 | ASH & SONS | | 304 | 364 | 364 | DOM;IRR; | |
| 13S/02E-01M55 | PRUNEDALE | 8/4/79 | ASH & SONS | 6 | 168 | 200 | 210 | DOM; | |
| 13S/02E-01N01 | PRUNEDALE | 9/27/61 | ASH & SONS | 12 | 40 | 336 | 355 | DOM; | |
| 13S/02E-01N50 | PRUNEDALE | 12/15/74 | ASH & SONS | 6 | 348 | 380 | 400 | DOM; | |
| 13S/02E-01N51 | PRUNEDALE | 11/7/73 | ASH & SONS | 7 | 192 | 224 | 230 | DOM; | |
| 13S/02E-01P01 | PRUNEDALE | | | 8 | | | 340 | DOM; | |
| 13S/02E-01P50 | PRUNEDALE | 2/7/91 | ASH & SONS | | | | 260 | | DES |
| 13S/02E-01P51 | PRUNEDALE | 2/8/91 | ASH & SONS | 5 | 318 | 358 | 365 | DOM; | |
| 13S/02E-01P52 | PRUNEDALE | 4/3/92 | ASH & SONS | 5 | 457 | 497 | 497 | DOM; | |
| 13S/02E-01T50 | PRUNEDALE | 8/29/72 | ASH & SONS | 6 | 340 | 376 | 385 | DOM; | |
| 13S/02E-01T51 | PRUNEDALE | 8/28/58 | C.F. DOUGHERTY | 10 | 220 | 280 | 288 | DOM; | |
| 13S/02E-01T52 | PRUNEDALE | 5/1/81 | ASH & SONS | 8 | 270 | 320 | 340 | DOM; | |
| 13S/02E-01T53 | PRUNEDALE | 5/22/64 | C.F. DOUGHERTY | 8 | 224 | 264 | 272 | DOM; | |
| 13S/02E-01T54 | PRUNEDALE | 10/16/70 | ASH & SONS | 7 | 387 | 435 | 445 | MUN; | |
| 13S/02E-01T55 | PRUNEDALE | 5/8/81 | ASH & SONS | 5 | 308 | 408 | 400 | DOM; | |
| 13S/02E-01T56 | PRUNEDALE | 4/9/56 | C.F. DOUGHERTY | 8 | 84 | 124 | 135 | IRR; | |
| 13S/02E-01T57 | PRUNEDALE | 7/1/63 | C.F. DOUGHERTY | 8 | 44 | 84 | 92 | DOM; | |
| 13S/02E-01T58 | PRUNEDALE | 10/9/70 | ASH & SONS | 6 | 380 | 420 | 490 | | |
| 13S/02E-01T59 | PRUNEDALE | 4/27/70 | C.F. DOUGHERTY | 8 | 308 | 368 | 372 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-01T60 | PRUNEDALE | 12/23/74 | C.F. DOUGHERTY | 8 | 280 | 320 | 328 | DOM; | |
| 13S/02E-01T61 | PRUNEDALE | 12/8/80 | ASH & SONS | 5 | 290 | 330 | 340 | DOM; | |
| 13S/02E-01T62 | PRUNEDALE | 3/31/87 | ASH & SONS | 5 | 460 | 520 | 520 | DOM; | |
| 13S/02E-01T63 | PRUNEDALE | 9/25/60 | ASH & SONS | 8 | 240 | 300 | 345 | DOM; | |
| 13S/02E-01T64 | PRUNEDALE | 9/12/75 | ASH & SONS | 7 | 166 | 198 | 200 | DOM; | |
| 13S/02E-01T65 | PRUNEDALE | 8/1/61 | ASH & SONS | | 260 | 360 | 385 | DOM;IRR; | |
| 13S/02E-01T66 | PRUNEDALE | 10/4/78 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/02E-01T67 | PRUNEDALE | 5/24/62 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 13S/02E-01T68 | PRUNEDALE | 8/1/66 | MELS DRILLING | 8 | 240 | 286 | 286 | DOM; | |
| 13S/02E-02C01 | PRUNEDALE | 11/22/54 | C.F. DOUGHERTY | 8 | 212 | 244 | 252 | DOM; | |
| 13S/02E-02C02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-02C50 | PRUNEDALE | 4/27/76 | ASH & SONS | 12 | 240 | 300 | 300 | IRR; | |
| 13S/02E-02D50 | PRUNEDALE | 5/17/90 | ASH & SONS | 6 | 260 | 320 | 340 | DOM; | |
| 13S/02E-02D51 | PRUNEDALE | 1/7/86 | ASH & SONS | 6 | 340 | 420 | 460 | DOM; | |
| 13S/02E-02E01 | PRUNEDALE | 7/27/71 | DOUGHERTY PUMP & DRILLING | 8 | 156 | 196 | 204 | DOM; | |
| 13S/02E-02E02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-02G50 | PRUNEDALE | 6/26/86 | C.F. DOUGHERTY | 6 | 300 | 360 | 370 | DOM; | |
| 13S/02E-02H50 | PRUNEDALE | 10/23/87 | ASH & SONS | 5 | 260 | 300 | 303 | DOM; | |
| 13S/02E-02M50 | PRUNEDALE | 12/6/79 | ASH & SONS | 6 | 200 | 232 | 232 | DOM; | |
| 13S/02E-02M51 | PRUNEDALE | 7/15/83 | ASH & SONS | 5 | 260 | 300 | 300 | DOM; | |
| 13S/02E-02N01 | PRUNEDALE | 4/16/80 | C.F. DOUGHERTY | 8 | 324 | 364 | 472 | DOM; | |
| 13S/02E-02N02 | PRUNEDALE | 1/1/71 | CLIFFORD PUMP & WELL | 8 | 128 | 176 | 180 | DOM | |
| 13S/02E-02P50 | PRUNEDALE | 6/27/84 | ASH & SONS | 6 | 168 | 208 | 210 | DOM; | |
| 13S/02E-02Q01 | PRUNEDALE | | | | | | | | |
| 13S/02E-02Q50 | PRUNEDALE | 8/19/85 | ASH & SONS | 6 | 120 | 160 | 170 | DOM | |
| 13S/02E-02Q51 | PRUNEDALE | 7/31/86 | ASH & SONS | 5 | 200 | 240 | 240 | DOM; | |
| 13S/02E-02Q52 | PRUNEDALE | 9/1/81 | ASH & SONS | 5 | 127 | 157 | 170 | DOM; | |
| 13S/02E-02R01 | PRUNEDALE | 10/13/59 | DUER | 12 | 160 | 211 | 220 | IRR; | DES; |
| 13S/02E-02R02 | PRUNEDALE | | | | | | | | |
| 13S/02E-02R50 | PAJARO-SPRINGFIELD | 9/17/91 | ROBINETT & SONS | 6 | 300 | 400 | 400 | IRR | |
| 13S/02E-02T50 | PRUNEDALE | 8/5/75 | ASH & SONS | 7 | 320 | 352 | 370 | DOM; | |
| 13S/02E-02T51 | PRUNEDALE | 2/3/71 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 13S/02E-02T52 | PRUNEDALE | 3/6/86 | ASH & SONS | 5 | 270 | 310 | 325 | DOM; | |
| 13S/02E-02T53 | PRUNEDALE | 6/12/72 | ASH & SONS | 6 | 116 | 152 | 160 | DOM; | |
| 13S/02E-02T54 | PRUNEDALE | 7/12/78 | CLIFFORD PUMP & WELL | | 290 | 425 | 425 | | |
| 13S/02E-02T55 | PRUNEDALE | 1/10/62 | C.F. DOUGHERTY | 8 | 220 | 260 | 268 | DOM; | |
| 13S/02E-02T56 | PRUNEDALE | 6/23/76 | CLIFFORD PUMP & WELL | 6 | 155 | 185 | 209 | DOM | |
| 13S/02E-02T57 | PRUNEDALE | 12/20/76 | MAGGIORA BROS | 13 | 238 | 283 | 310 | DOM; | |
| 13S/02E-02T58 | PRUNEDALE | 1/25/71 | C.F. DOUGHERTY | 8 | 212 | 252 | 260 | DOM; | |
| 13S/02E-02T59 | PRUNEDALE | 11/30/63 | C.F. DOUGHERTY | 8 | 212 | 252 | 260 | DOM; | |
| 13S/02E-02T60 | PRUNEDALE | 6/11/62 | C.F. DOUGHERTY | 10 | 252 | 312 | 320 | DOM; | |
| 13S/02E-02T61 | PRUNEDALE | 4/15/77 | MELVILLE DRILLING | 8 | 120 | 160 | 168 | DOM; | |
| 13S/02E-02T62 | PRUNEDALE | 8/30/75 | ASH & SONS | 7 | 270 | 302 | 315 | DOM; | |
| 13S/02E-02T63 | PRUNEDALE | 9/16/77 | CLIFFORD PUMP & WELL | 6 | 270 | 290 | 311 | DOM | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-02T64 | PRUNEDALE | 12/19/68 | FREEDOM GEN REPAIR & PUMP | 8 | 126 | 148 | 204 | DOM; | |
| 13S/02E-02T65 | PRUNEDALE | 1/15/55 | C.F. DOUGHERTY | 8 | 64 | 96 | 104 | DOM; | |
| 13S/02E-02T66 | PRUNEDALE | 10/4/79 | ASH & SONS | 6 | 280 | 312 | 312 | DOM; | |
| 13S/02E-02T67 | PRUNEDALE | 10/13/73 | ASH & SONS | 7 | 140 | 160 | 175 | DOM; | |
| 13S/02E-02T68 | PRUNEDALE | 6/21/75 | C.F. DOUGHERTY | 7 | 260 | 320 | 328 | DOM; | |
| 13S/02E-02T69 | PRUNEDALE | 3/5/77 | MELVILLE DRILLING | 8 | 96 | 128 | 136 | DOM; | |
| 13S/02E-03A50 | PRUNEDALE | 6/15/72 | C.F. DOUGHERTY | 12 | 460 | 524 | 534 | DOM; | |
| 13S/02E-03H01 | PRUNEDALE | 6/28/79 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 13S/02E-03H50 | PRUNEDALE | 12/14/85 | ROMAN WELL DRILLING | 8 | 100 | 310 | 310 | IRR; | |
| 13S/02E-03H51 | PAJARO-SPRINGFIELD | 6/26/91 | ASH & SONS | 6 | 502 | 544 | 544 | DOM | |
| 13S/02E-03J50 | PRUNEDALE | 8/6/73 | J. T. ROBINETT | 8 | 195 | 255 | 255 | DOM | |
| 13S/02E-03J51 | PRUNEDALE | 3/23/90 | ASH & SONS | 5 | 265 | 305 | 365 | DOM; | |
| 13S/02E-03K50 | PRUNEDALE | 4/11/75 | C.F. DOUGHERTY | 14 | 272 | 332 | 350 | DOM; | |
| 13S/02E-03L01 | PRUNEDALE | 7/6/63 | VALLEY PUMP | 12 | 160 | 306 | 306 | IRR; | |
| 13S/02E-03Q01 | PRUNEDALE | 9/28/57 | VALLEY PUMP | 12 | 96 | 192 | 192 | IRR; | |
| 13S/02E-03Q02 | PAJARO-SPRINGFIELD | 9/23/86 | MAGGIORA BROS | 9 | 350 | 490 | 490 | DOM; | |
| 13S/02E-03R01 | PRUNEDALE | | | | | | 170 | DOM; | |
| 13S/02E-03R50 | PRUNEDALE | 11/21/89 | ASH & SONS | 5 | 215 | 255 | 255 | DOM | |
| 13S/02E-03T50 | PRUNEDALE | 11/29/79 | ASH & SONS | 10 | 140 | 228 | 240 | DOM; | |
| 13S/02E-03T51 | PRUNEDALE | 3/3/76 | C.F. DOUGHERTY | 8 | 180 | 220 | 228 | DOM; | |
| 13S/02E-03T52 | PRUNEDALE | 6/24/76 | CLIFFORD PUMP & WELL | 6 | 155 | 185 | 209 | DOM | |
| 13S/02E-03T53 | PRUNEDALE | 3/2/63 | C.F. DOUGHERTY | 8 | 203 | 248 | 252 | DOM; | |
| 13S/02E-03T54 | PRUNEDALE | 5/4/64 | C.F. DOUGHERTY | | 152 | 192 | 200 | DOM; | |
| 13S/02E-03T55 | PRUNEDALE | 12/15/76 | MAGGIORA BROS | 12 | 266 | 306 | 320 | DOM; | |
| 13S/02E-03T56 | PRUNEDALE | 4/4/55 | C.F. DOUGHERTY | 8 | 92 | 124 | 132 | DOM; | |
| 13S/02E-03T57 | PRUNEDALE | 8/13/73 | C.F. DOUGHERTY | 8 | 210 | 270 | 280 | DOM; | |
| 13S/02E-04E02 | PAJARO-SPRINGFIELD | 3/5/76 | | 8 | | | | DOM; | |
| 13S/02E-04F01 | PAJARO-SPRINGFIELD | 1/1/48 | BLAKE | 12 | | | | IRR; | |
| 13S/02E-04K01 | PAJARO-SPRINGFIELD | 9/30/57 | | | | | | IRR; | |
| 13S/02E-04K52 | | | | | | | | | |
| 13S/02E-04T50 | PAJARO-SPRINGFIELD | 4/19/73 | ASH & SONS | | 160 | 196 | 205 | DOM; | |
| 13S/02E-05A01 | PAJARO-SPRINGFIELD | 1/9/59 | VALLEY PUMP | 12 | 272 | 320 | 400 | IRR; | |
| 13S/02E-05A02 | PAJARO-SPRINGFIELD | | LITCHFIELD | | 130 | 166 | 177 | | |
| 13S/02E-05B01 | PAJARO-SPRINGFIELD | 9/12/58 | | 12 | | | 225 | DOM; | |
| 13S/02E-05B03 | PAJARO-SPRINGFIELD | 4/22/81 | | | | | | | |
| 13S/02E-05B04 | PAJARO-SPRINGFIELD | | | 10 | | | 302 | DOM; | |
| 13S/02E-05B50 | PAJARO-SPRINGFIELD | 12/30/52 | ALSOP & SON | | | | 240 | DOM; | |
| 13S/02E-05B51 | PAJARO-SPRINGFIELD | | | | | | 200 | | DESTROYED |
| 13S/02E-05C01 | PAJARO-SPRINGFIELD | | DUER | | 100 | 240 | 240 | | |
| 13S/02E-05C02 | PAJARO-SPRINGFIELD | 4/8/74 | SALINAS PUMP CO | 10 | 168 | 384 | 408 | IRR; | |
| 13S/02E-05C50 | PAJARO-SPRINGFIELD | 9/22/91 | ROBINETT & SONS | 6 | 340 | 440 | 445 | IRR | |
| 13S/02E-05D01 | PAJARO-SPRINGFIELD | 6/4/57 | | | | | | IRR; | |
| 13S/02E-05D50 | PAJARO-SPRINGFIELD | 1/31/73 | MAGGIORA BROS | 14 | 110 | 135 | 145 | DOM; | |
| 13S/02E-05E01 | PAJARO-SPRINGFIELD | 7/9/46 | ALEXANDER | 12 | 127 | 186 | 187 | | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-05E02 | PAJARO-SPRINGFIELD | 7/17/46 | ALEXANDER | 12 | 195 | 309 | 309 | | |
| 13S/02E-05E03 | PAJARO-SPRINGFIELD | 1/1/52 | | 12 | | | 190 | IRR; | |
| 13S/02E-05E50 | PAJARO-SPRINGFIELD | 7/21/76 | MAGGIORA BROS | 13 | 120 | 150 | 165 | DOM; | |
| 13S/02E-05E51 | PAJARO-SPRINGFIELD | 4/7/82 | ASH & SONS | 8 | 122 | 172 | 188 | DOM; | |
| 13S/02E-05G01 | PAJARO-SPRINGFIELD | 5/6/57 | DUER | | 115 | 265 | 272 | IRR; | |
| 13S/02E-05G50 | PAJARO-SPRINGFIELD | 7/29/72 | FREEDOM GEN REPAIR & PUMP | 10 | 142 | 182 | 200 | DOM; | |
| 13S/02E-05G51 | PAJARO-SPRINGFIELD | | | 14 | | | 200 | | DESTROYED |
| 13S/02E-05J50 | PAJARO-SPRINGFIELD | 10/15/88 | EATON | 15 | 370 | 661 | 706 | IRR; | |
| 13S/02E-05K01 | PAJARO-SPRINGFIELD | 1/1/52 | | 10 | | | 200 | DOM; | |
| 13S/02E-05M01 | PAJARO-SPRINGFIELD | 1/20/48 | ALEXANDER | 14 | | | 122 | IRR; | |
| 13S/02E-05M50 | PAJARO-SPRINGFIELD | 4/29/78 | MAGGIORA BROS | 12 | 135 | 165 | 180 | DOM; | |
| 13S/02E-05N50 | PAJARO-SPRINGFIELD | 10/8/81 | MAGGIORA BROS | 16 | 240 | 430 | 465 | IRR; | |
| 13S/02E-05Q01 | PAJARO-SPRINGFIELD | 4/22/81 | | | | | 250 | IRR; | |
| 13S/02E-05T50 | PAJARO-SPRINGFIELD | 1/20/58 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/02E-05T51 | PAJARO-SPRINGFIELD | 9/10/73 | SALINAS PUMP CO | 12 | 140 | 350 | 408 | IRR; | |
| 13S/02E-05T52 | PAJARO-SPRINGFIELD | 12/8/57 | C.F. DOUGHERTY | 12 | 294 | 344 | 356 | IRR; | |
| 13S/02E-05T53 | PAJARO-SPRINGFIELD | 7/7/80 | MAGGIORA BROS | 6 | 95 | 185 | 205 | DOM; | |
| 13S/02E-05T54 | PAJARO-SPRINGFIELD | 3/4/61 | SALINAS PUMP CO | 12 | 36 | 109 | 133 | IRR; | |
| 13S/02E-06A01 | PAJARO-SPRINGFIELD | 4/11/64 | VALLEY PUMP | 16 | 60 | 120 | 502 | IRR; | |
| 13S/02E-06A50 | PAJARO-SPRINGFIELD | 10/4/78 | MAGGIORA BROS | 12 | 150 | 230 | 256 | DOM; | |
| 13S/02E-06C01 | PAJARO-SPRINGFIELD | 2/1/44 | ALEXANDER | 12 | 79 | 195 | 198 | | DES; |
| 13S/02E-06C02 | PAJARO-SPRINGFIELD | 6/22/66 | FARMERS MERCANTILE | 12 | | | | IRR; | |
| 13S/02E-06C03 | PAJARO-SPRINGFIELD | 6/22/66 | FARMERS MERCANTILE | | | | | DOM; | |
| 13S/02E-06C04 | PAJARO-SPRINGFIELD | 2/1/88 | | 18 | | | | TEST; | CAPPED |
| 13S/02E-06C50 | PAJARO-SPRINGFIELD | 2/1/64 | SALINAS PUMP CO | 12 | 88 | 124 | 124 | IRR; | |
| 13S/02E-06D01 | PAJARO-SPRINGFIELD | 7/23/64 | | | | | | IRR; | |
| 13S/02E-06E02 | PAJARO-SPRINGFIELD | 1/1/45 | ALEXANDER | 12 | 145 | 179 | 198 | | DES; |
| 13S/02E-06E03 | PAJARO-SPRINGFIELD | 3/2/46 | ALEXANDER | 12 | 149 | 187 | 192 | IRR; | |
| 13S/02E-06E50 | PAJARO-SPRINGFIELD | 2/26/88 | MAGGIORA | 14 | | | 170 | | DES |
| 13S/02E-06F03 | PAJARO-SPRINGFIELD | 1/1/45 | | 12 | 210 | 350 | 350 | IRR; | |
| 13S/02E-06F50 | PAJARO-SPRINGFIELD | 7/1/71 | FREEDOM GEN REPAIR & PUMP | 8 | 100 | 130 | 360 | DOM; | |
| 13S/02E-06F51 | PAJARO-SPRINGFIELD | 3/11/88 | MAGGIORA | 12 | | | 80 | | DES |
| 13S/02E-06F52 | PAJARO-SPRINGFIELD | 3/11/88 | MAGGIORA | 12 | | | 190 | | DES |
| 13S/02E-06F53 | PAJARO-SPRINGFIELD | 5/19/72 | FREEDOM GEN REPAIR & PUMP | 4 | 155 | 195 | 195 | DOM; | |
| 13S/02E-06F54 | PAJARO-SPRINGFIELD | 8/18/72 | FREEDOM GEN REPAIR & PUMP | 14 | 156 | 186 | 360 | IRR; | |
| 13S/02E-06G01 | PAJARO-SPRINGFIELD | 6/28/74 | MAGGIORA BROS | 12 | 385 | 425 | 425 | IRR; | |
| 13S/02E-06H50 | PRUNEDALE | 2/27/92 | ASH & SONS | 6 | | | 490 | DOM | |
| 13S/02E-06J03 | PAJARO-SPRINGFIELD | 3/5/76 | | | | | | DOM; | |
| 13S/02E-06K50 | PAJARO-SPRINGFIELD | 6/16/89 | MAGGIORA BROS | 16 | 880 | 1200 | 1270 | DOM | |
| 13S/02E-06L01 | PAJARO-SPRINGFIELD | 6/22/66 | | 12 | | | | IRR; | |
| 13S/02E-06L02 | PAJARO-SPRINGFIELD | 6/22/66 | | | | | | | |
| 13S/02E-06L50 | PAJARO-SPRINGFIELD | 2/5/85 | ASH & SONS | 5 | 140 | 180 | 182 | DOM; | |
| 13S/02E-06L51 | PAJARO-SPRINGFIELD | 8/14/86 | ASH & SONS | 5 | 94 | 114 | 122 | DOM; | |
| 13S/02E-06L52 | PAJARO-SPRINGFIELD | 10/28/72 | FREEDOM GEN REPAIR & PUMP | 4 | 130 | 150 | 150 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-06M01 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 13S/02E-06M02 | PAJARO-SPRINGFIELD | | | | | | 160 | IRR; | |
| 13S/02E-06M50 | PAJARO-SPRINGFIELD | 4/30/76 | CLIFFORD PUMP & WELL | 9 | 307 | 347 | 380 | DOM | |
| 13S/02E-06P01 | PAJARO-SPRINGFIELD | 1/1/59 | | 12 | | | 800 | IRR; | |
| 13S/02E-06R01 | PAJARO-SPRINGFIELD | 5/6/57 | | | 50 | 120 | 120 | IRR; | ABAN |
| 13S/02E-06R50 | PAJARO-SPRINGFIELD | 2/7/67 | FREEDOM GEN REPAIR & PUMP | 12 | 123 | 203 | 327 | IRR; | |
| 13S/02E-06R51 | PAJARO-SPRINGFIELD | 9/20/68 | THE PUMP SHOP | | 147 | 192 | 196 | IRR; | |
| 13S/02E-06R52 | PAJARO-SPRINGFIELD | 1/17/91 | EATON DRILLING | 16 | 290 | 460 | 600 | IRR; | |
| 13S/02E-06T50 | PAJARO-SPRINGFIELD | 4/11/64 | SALINAS PUMP CO | 16 | 60 | 120 | 502 | IRR; | |
| 13S/02E-06T51 | PAJARO-SPRINGFIELD | 1/21/58 | C.F. DOUGHERTY | 12 | | | 390 | IRR; | |
| 13S/02E-06T52 | PAJARO-SPRINGFIELD | 5/1/81 | ROMAN WELL DRILLING | 8 | 240 | 300 | 400 | DOM; | |
| 13S/02E-06T53 | PAJARO-SPRINGFIELD | 9/27/89 | MAGGIORA BROS | 16 | 140 | 180 | 190 | IRR | |
| 13S/02E-07A01 | PAJARO-SPRINGFIELD | | | | | | | IRR; | |
| 13S/02E-07B01 | PAJARO-SPRINGFIELD | 1/1/46 | ALEXANDER | | 120 | 159 | 159 | IRR; | DES; |
| 13S/02E-07B02 | PAJARO-SPRINGFIELD | 1/21/58 | C.F. DOUGHERTY | 12 | 158 | 208 | 228 | IRR; | DES; |
| 13S/02E-07B03 | PAJARO-SPRINGFIELD | 6/23/66 | | | | | | DOM; | |
| 13S/02E-07B04 | PAJARO-SPRINGFIELD | 3/5/76 | | | | | 180 | DOM; | |
| 13S/02E-07B05 | PAJARO-SPRINGFIELD | 1/1/47 | DUER | 16 | | | 85 | | |
| 13S/02E-07B50 | PAJARO-SPRINGFIELD | 11/8/67 | FREEDOM GEN REPAIR & PUMP | 8 | 96 | 141 | 152 | IRR; | |
| 13S/02E-07B51 | PAJARO-SPRINGFIELD | 1/21/58 | C.F. DOUGHERTY | 12 | | | 356 | IRR | |
| 13S/02E-07R01 | PAJARO-SPRINGFIELD | | | | | | 740 | DOM; | |
| 13S/02E-08Q01 | MORO COJO | 5/12/50 | NUNES WELL | 12 | 100 | 111 | 285 | IRR; | |
| 13S/02E-10A01 | PRUNEDALE | | | | | | | | |
| 13S/02E-10A02 | PRUNEDALE | | | | | | 120 | DOM; | |
| 13S/02E-10A50 | PRUNEDALE | 9/1/54 | PORTER | 12 | 100 | 202 | 222 | IRR; | |
| 13S/02E-10G01 | PRUNEDALE | | | 10 | | | | IRR; | |
| 13S/02E-10J01 | PRUNEDALE | 11/21/59 | VALLEY PUMP | 12 | 168 | 624 | 624 | IRR; | |
| 13S/02E-10L01 | PRUNEDALE | | | | | | | IRR; | ABAN; |
| 13S/02E-10R01 | PRUNEDALE | | | | | | | IRR; | |
| 13S/02E-10R50 | PRUNEDALE | 6/21/79 | ASH & SONS | 10 | 200 | 248 | 270 | DOM; | |
| 13S/02E-10T50 | PRUNEDALE | 6/15/79 | ALSOP & SON | | 45 | 305 | 325 | DOM; | |
| 13S/02E-11C01 | PRUNEDALE | | | | | | | | |
| 13S/02E-11D50 | PRUNEDALE | 9/24/91 | ROBINETT & SONS | 6 | 230 | 390 | 390 | DOM | |
| 13S/02E-11G01 | PRUNEDALE | | | | | | 285 | DOM; | |
| 13S/02E-11G02 | PRUNEDALE | | | 8 | | | 340 | DOM; | |
| 13S/02E-11G03 | PRUNEDALE | | | 10 | | | 280 | DOM; | |
| 13S/02E-11M50 | PRUNEDALE | 6/9/87 | C.F. DOUGHERTY | 6 | 240 | 300 | 305 | DOM; | |
| 13S/02E-11M51 | PRUNEDALE | 6/18/87 | ASH & SONS | 5 | 140 | 180 | 185 | DOM; | |
| 13S/02E-11N01 | PRUNEDALE | 3/31/80 | MAGGIORA BROS | 6 | 147 | 187 | 200 | DOM; | |
| 13S/02E-11N50 | PRUNEDALE | 4/21/81 | ASH & SONS | 6 | 210 | 250 | 260 | DOM; | |
| 13S/02E-11P50 | PRUNEDALE | 1/15/82 | ASH & SONS | 6 | 160 | 220 | 235 | IRR; | |
| 13S/02E-11P51 | PRUNEDALE | 5/14/92 | ASH & SONS | | | | 140 | | DES; |
| 13S/02E-11Q50 | PRUNEDALE | 6/5/77 | ASH & SONS | 7 | 333 | 365 | 365 | DOM; | |
| 13S/02E-11R01 | PRUNEDALE | | | | | | | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-11T50 | PRUNEDALE | 2/25/76 | CLIFFORD PUMP & WELL | 8 | 264 | 324 | 333 | DOM | |
| 13S/02E-11T51 | PRUNEDALE | 10/5/64 | C.F. DOUGHERTY | 12 | 196 | 236 | 244 | DOM; | |
| 13S/02E-11T52 | PRUNEDALE | 4/29/60 | ASH & SONS | 8 | 180 | 260 | 280 | DOM; | |
| 13S/02E-11T53 | PRUNEDALE | 2/8/67 | SALINAS PUMP CO | 8 | 160 | 240 | 255 | DOM; | |
| 13S/02E-11T54 | PRUNEDALE | 4/22/75 | C.F. DOUGHERTY | 12 | 196 | 256 | 272 | DOM; | |
| 13S/02E-11T55 | PRUNEDALE | 2/15/73 | C.F. DOUGHERTY | 12 | 276 | 356 | 368 | IRR; | |
| 13S/02E-11T56 | PRUNEDALE | 2/21/75 | C.F. DOUGHERTY | 10 | 273 | 357 | 365 | IRR; | |
| 13S/02E-11T57 | PRUNEDALE | 9/16/69 | C.F. DOUGHERTY | 8 | 280 | 320 | 328 | DOM; | |
| 13S/02E-11T58 | PRUNEDALE | 10/29/61 | ASH & SONS | 6 | 130 | 160 | 182 | DOM; | |
| 13S/02E-11T59 | PRUNEDALE | 8/6/70 | ASH & SONS | 6 | 210 | 240 | 359 | DOM; | |
| 13S/02E-11T60 | PRUNEDALE | 5/7/59 | C.F. DOUGHERTY | 10 | 176 | 236 | 244 | DOM; | |
| 13S/02E-11T61 | PRUNEDALE | 3/15/74 | C.F. DOUGHERTY | 12 | 190 | 362 | 370 | IRR; | |
| 13S/02E-11T62 | PRUNEDALE | 6/15/66 | MASSON DRILLING | 10 | 115 | 210 | 210 | DOM; | |
| 13S/02E-11T63 | PRUNEDALE | 7/31/73 | C.F. DOUGHERTY | 8 | 280 | 320 | 328 | DOM | |
| 13S/02E-12C50 | PRUNEDALE | 7/18/69 | C.F. DOUGHERTY | 12 | 202 | 262 | 272 | IRR; | |
| 13S/02E-12D01 | PRUNEDALE | 8/24/59 | ASH & SONS | 12 | 216 | 396 | 396 | IRR; | |
| 13S/02E-12G01 | PRUNEDALE | | | 8 | | | 260 | DOM; | |
| 13S/02E-12G50 | PRUNEDALE | 2/15/89 | ASH & SONS | 5 | 565 | 605 | 620 | DOM; | |
| 13S/02E-12G51 | PRUNEDALE | 12/28/67 | ASH & SONS | 6 | 366 | 416 | 445 | DOM; | |
| 13S/02E-12H01 | PRUNEDALE | 8/12/50 | C.F. DOUGHERTY | 8 | 202 | 247 | 250 | DOM; | |
| 13S/02E-12H02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-12H03 | PRUNEDALE | 3/22/66 | | 8 | | | 284 | DOM; | |
| 13S/02E-12H50 | PRUNEDALE | 8/12/50 | C.F. DOUGHERTY | 10 | 202 | 247 | 250 | DOM; | |
| 13S/02E-12H51 | PRUNEDALE | 11/29/84 | C.F. DOUGHERTY | 8 | 288 | 328 | 336 | DOM; | |
| 13S/02E-12J01 | PRUNEDALE | 9/27/54 | C.F. DOUGHERTY | 8 | 240 | 272 | 280 | DOM; | |
| 13S/02E-12J02 | PRUNEDALE | 5/27/66 | C.F. DOUGHERTY | 12 | 212 | 272 | 280 | DOM; | |
| 13S/02E-12J50 | PRUNEDALE | 6/23/89 | ASH & SONS | 5 | 300 | 340 | 380 | DOM; | |
| 13S/02E-12K01 | PRUNEDALE | 6/10/55 | C.F. DOUGHERTY | 8 | 169 | 201 | 205 | DOM; | |
| 13S/02E-12K02 | PRUNEDALE | | | 8 | 200 | 300 | 350 | DOM; | |
| 13S/02E-12K03 | PRUNEDALE | | | | | | 252 | DOM; | |
| 13S/02E-12K04 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-12K50 | PRUNEDALE | 11/20/60 | SALINAS PUMP CO | 8 | 200 | 300 | 300 | DOM; | |
| 13S/02E-12K51 | PRUNEDALE | 9/19/79 | ASH & SONS | 10 | 260 | 300 | 320 | DOM; | |
| 13S/02E-12K52 | PRUNEDALE | 5/1/70 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 13S/02E-12K53 | PRUNEDALE | 11/25/92 | ASH & SONS | 6 | 317 | 357 | 357 | DOM | |
| 13S/02E-12L01 | PRUNEDALE | | | 12 | 232 | 272 | 276 | DOM; | |
| 13S/02E-12L02 | PRUNEDALE | 12/10/85 | ASH & SONS | 8 | 340 | 380 | 460 | DOM; | |
| 13S/02E-12L50 | PRUNEDALE | 3/9/63 | C.F. DOUGHERTY | 8 | 287 | 387 | 387 | DOM; | |
| 13S/02E-12L50B | PRUNEDALE | 3/9/63 | C.F. DOUGHERTY | 8 | 287 | 388 | 388 | DOM; | |
| 13S/02E-12L51 | PRUNEDALE | 4/27/54 | C.F. DOUGHERTY | 8 | 240 | 272 | 280 | DOM; | |
| 13S/02E-12L52 | PRUNEDALE | 4/1/93 | ASH & SONS | | | | 253 | | DES |
| 13S/02E-12L53 | PRUNEDALE | 3/26/93 | ASH & SONS | 5 | 330 | 370 | 370 | DOM | |
| 13S/02E-12M50 | PRUNEDALE | 5/4/78 | C.F. DOUGHERTY | 10 | 398 | 438 | 448 | DOM; | |
| 13S/02E-12N50 | PRUNEDALE | 4/17/68 | THE PUMP SHOP | | 148 | 168 | 196 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-12R50 | PRUNEDALE | 3/17/87 | ASH & SONS | 5 | 300 | 340 | 344 | DOM; | |
| 13S/02E-12R51 | PRUNEDALE | 4/26/82 | ASH & SONS | 5 | 215 | 255 | 260 | DOM; | |
| 13S/02E-12T50 | PRUNEDALE | 3/12/58 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 13S/02E-12T51 | PRUNEDALE | 1/27/73 | ASH & SONS | 7 | 219 | 255 | 265 | DOM; | |
| 13S/02E-12T52 | PRUNEDALE | 2/19/57 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | IRR; | |
| 13S/02E-12T53 | PRUNEDALE | 3/29/71 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | DOM; | |
| 13S/02E-12T54 | PRUNEDALE | 7/27/55 | C.F. DOUGHERTY | 8 | 64 | 96 | 104 | DOM; | |
| 13S/02E-12T55 | PRUNEDALE | 7/13/70 | C.F. DOUGHERTY | 8 | 200 | 240 | 248 | DOM; | |
| 13S/02E-12T56 | PRUNEDALE | 5/11/64 | C.F. DOUGHERTY | 10 | 232 | 272 | 276 | DOM; | |
| 13S/02E-12T57 | PRUNEDALE | 12/11/80 | ASH & SONS | 5 | 300 | 340 | 360 | DOM; | |
| 13S/02E-12T58 | PRUNEDALE | 3/31/54 | C.F. DOUGHERTY | 8 | 124 | 156 | 184 | DOM; | |
| 13S/02E-12T59 | PRUNEDALE | 1/2/75 | ASH & SONS | 7 | 378 | 410 | 430 | DOM; | |
| 13S/02E-12T60 | PRUNEDALE | 7/15/68 | ASH & SONS | 6 | 296 | 336 | 370 | DOM; | |
| 13S/02E-12T61 | PRUNEDALE | 10/16/75 | ASH & SONS | 7 | 331 | 363 | 370 | DOM; | |
| 13S/02E-12T62 | PRUNEDALE | 6/20/84 | ASH & SONS | 5 | 360 | 400 | 409 | DOM; | |
| 13S/02E-12T63 | PRUNEDALE | 9/5/80 | ASH & SONS | 5 | 250 | 290 | 312 | DOM; | |
| 13S/02E-12T64 | PRUNEDALE | 2/20/66 | MELS DRILLING | 6 | 295 | 355 | 355 | DOM; | |
| 13S/02E-12T65 | PRUNEDALE | 10/11/63 | C.F. DOUGHERTY | 10 | 192 | 252 | 260 | DOM; | |
| 13S/02E-12T66 | PRUNEDALE | 10/8/76 | ASH & SONS | 6 | 368 | 400 | 420 | DOM; | |
| 13S/02E-12T68 | PRUNEDALE | 12/9/74 | SALINAS PUMP CO | 6 | 180 | 300 | 320 | DOM; | |
| 13S/02E-12T69 | PRUNEDALE | 9/7/59 | ASH & SONS | 8 | 200 | 300 | 300 | DOM; | |
| 13S/02E-12T70 | PRUNEDALE | 3/27/64 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 13S/02E-12T71 | PRUNEDALE | 10/27/73 | ASH & SONS | 7 | 347 | 383 | 390 | DOM; | |
| 13S/02E-12T72 | PRUNEDALE | 2/4/56 | C.F. DOUGHERTY | 10 | 324 | 364 | 376 | DOM; | |
| 13S/02E-12T73 | PRUNEDALE | 6/18/76 | ASH & SONS | 6 | 200 | 252 | 250 | DOM; | |
| 13S/02E-13A50 | PRUNEDALE | 8/10/91 | ASH & SONS | 5 | | | 260 | | |
| 13S/02E-13C01 | PRUNEDALE | 5/24/74 | ASH & SONS | 66 | 212 | 240 | 240 | DOM | |
| 13S/02E-13C02 | PRUNEDALE | 12/26/72 | ASH & SONS | 7 | 240 | 276 | 290 | DOM; | |
| 13S/02E-13C03 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-13C04 | PRUNEDALE | | | | | | 180 | DOM | DESTROYED |
| 13S/02E-13C50 | PRUNEDALE | 11/13/87 | ASH & SONS | 5 | 240 | 280 | 285 | DOM; | |
| 13S/02E-13C51 | PRUNEDALE | 9/23/93 | DOUGHERTY PUMP & DRILLING | 5 | 180 | 240 | 240 | DOM | |
| 13S/02E-13D50 | PRUNEDALE | 8/18/92 | ASH & SONS | 5 | 384 | 424 | 424 | DOM | |
| 13S/02E-13E01 | PRUNEDALE | | | 6 | | | 250 | DOM; | |
| 13S/02E-13F01 | PRUNEDALE | | | 7 | | | 230 | DOM; | |
| 13S/02E-13F50 | PRUNEDALE | 7/26/83 | ASH & SONS | 5 | 280 | 320 | 320 | DOM; | |
| 13S/02E-13F51 | PRUNEDALE | 8/28/81 | ASH & SONS | 5 | 170 | 200 | 203 | DOM; | |
| 13S/02E-13G01 | PRUNEDALE | 12/6/72 | SALINAS PUMP CO | 12 | 248 | 288 | 300 | DOM; | |
| 13S/02E-13G50 | PRUNEDALE | 6/10/88 | ASH & SONS | 5 | 410 | 450 | 456 | DOM; | |
| 13S/02E-13G51 | PRUNEDALE | 10/7/89 | ASH & SONS | 5 | 280 | 320 | 340 | DOM; | |
| 13S/02E-13H50 | PRUNEDALE | 1/13/82 | ASH & SONS | 5 | 240 | 300 | 305 | DOM; | |
| 13S/02E-13H51 | PRUNEDALE | 4/17/81 | ASH & SONS | 10 | 325 | 385 | 385 | DOM; | |
| 13S/02E-13K01 | PRUNEDALE | | | 5 | | | 270 | DOM; | |
| 13S/02E-13K50 | PRUNEDALE | 5/28/81 | ASH & SONS | 5 | 240 | 280 | 287 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-13K51 | PRUNEDALE | 8/28/79 | ASH & SONS | 6 | 248 | 280 | 290 | DOM; | |
| 13S/02E-13K52 | PRUNEDALE | 5/28/75 | SALINAS PUMP CO | 10 | 312 | 412 | 455 | IRR; | |
| 13S/02E-13L50 | PRUNEDALE | 11/25/77 | ASH & SONS | 7 | 150 | 180 | 190 | DOM; | |
| 13S/02E-13L51 | PRUNEDALE | 7/29/67 | ASH & SONS | 6 | 176 | 212 | 246 | DOM; | |
| 13S/02E-13L52 | PRUNEDALE | 10/31/85 | ASH & SONS | 6 | 160 | 200 | 220 | DOM; | |
| 13S/02E-13L53 | PRUNEDALE | 6/14/77 | ASH & SONS | 7 | 148 | 180 | 180 | DOM; | |
| 13S/02E-13L54 | PRUNEDALE | 12/31/86 | ASH & SONS | 5 | 140 | 180 | 190 | DOM; | |
| 13S/02E-13M50 | PRUNEDALE | 6/14/56 | C.F. DOUGHERTY | 10 | 132 | 192 | 200 | DOM;IRR; | |
| 13S/02E-13M51 | PRUNEDALE | 10/5/92 | ASH & SONS | 6 | 280 | 320 | 320 | DOM | |
| 13S/02E-13N01 | PRUNEDALE | 6/14/56 | C.F. DOUGHERTY | 10 | 132 | 192 | 200 | IRR; | |
| 13S/02E-13N50 | PRUNEDALE | 9/21/81 | ASH & SONS | 5 | 120 | 160 | 170 | DOM; | |
| 13S/02E-13N51 | PRUNEDALE | 12/2/81 | ASH & SONS | 8 | 140 | 190 | 190 | IRR; | |
| 13S/02E-13N52 | PRUNEDALE | 2/28/85 | ASH & SONS | 8 | 160 | 200 | 215 | DOM; | |
| 13S/02E-13P01 | PRUNEDALE | | | 6 | | | 110 | DOM; | |
| 13S/02E-13P50 | PRUNEDALE | 10/16/87 | ASH & SONS | 5 | 140 | 180 | 190 | DOM; | |
| 13S/02E-13P51 | PRUNEDALE | 10/30/87 | ASH & SONS | 6 | 160 | 200 | 215 | DOM; | |
| 13S/02E-13Q01 | PRUNEDALE | 10/5/49 | C.F. DOUGHERTY | 8 | 234 | 255 | 264 | DOM; | |
| 13S/02E-13Q50 | PRUNEDALE | 5/10/90 | ASH & SONS | 5 | 260 | 300 | 320 | DOM; | |
| 13S/02E-13Q51 | PRUNEDALE | 6/20/86 | ASH & SONS | 5 | 120 | 160 | 165 | DOM; | |
| 13S/02E-13T50 | PRUNEDALE | 3/11/76 | ASH & SONS | 7 | 248 | 280 | 295 | DOM; | |
| 13S/02E-13T51 | PRUNEDALE | 3/15/65 | ASH & SONS | 6 | 176 | 216 | 249 | DOM; | |
| 13S/02E-13T52 | PRUNEDALE | 1/30/72 | C.F. DOUGHERTY | 8 | 144 | 184 | 192 | DOM; | |
| 13S/02E-13T53 | PRUNEDALE | 6/5/76 | ASH & SONS | 6 | 418 | 450 | 465 | DOM; | |
| 13S/02E-13T54 | PRUNEDALE | 6/8/76 | ASH & SONS | 6 | 368 | 400 | 415 | DOM; | |
| 13S/02E-13T55 | PRUNEDALE | 2/28/61 | C.F. DOUGHERTY | 8 | 164 | 204 | 212 | IRR; | |
| 13S/02E-13T56 | PRUNEDALE | 3/15/72 | ASH & SONS | 10 | 130 | 140 | 145 | DOM; | |
| 13S/02E-13T57 | PRUNEDALE | 7/25/75 | ASH & SONS | 16 | 347 | 470 | 498 | IRR; | |
| 13S/02E-13T58 | PRUNEDALE | 4/14/76 | C.F. DOUGHERTY | 10 | 248 | 288 | 296 | DOM; | |
| 13S/02E-13T59 | PRUNEDALE | 12/11/75 | ASH & SONS | 7 | 312 | 350 | 360 | DOM; | |
| 13S/02E-13T61 | PRUNEDALE | 4/18/80 | ASH & SONS | 5 | 116 | 156 | 165 | DOM; | |
| 13S/02E-13T62 | PRUNEDALE | 2/3/54 | C.F. DOUGHERTY | 8 | 116 | 148 | 156 | DOM; | |
| 13S/02E-13T63 | PRUNEDALE | 12/10/75 | ASH & SONS | 7 | 228 | 260 | 275 | DOM; | |
| 13S/02E-13T64 | PRUNEDALE | 2/1/85 | ASH & SONS | 5 | 310 | 350 | 370 | DOM; | |
| 13S/02E-13T65 | PRUNEDALE | 5/4/71 | ASH & SONS | 7 | 334 | 374 | 389 | DOM; | |
| 13S/02E-13T66 | PRUNEDALE | 6/12/70 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 13S/02E-13T67 | PRUNEDALE | 6/2/75 | C.F. DOUGHERTY | 8 | 132 | 172 | 180 | DOM; | |
| 13S/02E-13T68 | PRUNEDALE | 2/18/72 | ASH & SONS | 6 | 220 | 256 | 265 | DOM; | |
| 13S/02E-13T69 | PRUNEDALE | 6/11/65 | C.F. DOUGHERTY | 8 | 240 | 280 | 288 | DOM; | |
| 13S/02E-13T70 | PRUNEDALE | 10/19/54 | C.F. DOUGHERTY | 8 | 60 | 92 | 100 | DOM; | |
| 13S/02E-13T71 | PRUNEDALE | 2/24/60 | ASH & SONS | | | | 2898 | OIL; | |
| 13S/02E-13T72 | PRUNEDALE | 7/31/91 | ASH & SONS | 5 | 338 | 378 | 378 | DOM | |
| 13S/02E-14A50 | PRUNEDALE | 10/6/89 | ASH & SONS | 5 | 296 | 336 | 360 | DOM; | |
| 13S/02E-14A51 | PRUNEDALE | 12/15/87 | ASH & SONS | 5 | 360 | 400 | 405 | DOM; | |
| 13S/02E-14A52 | PRUNEDALE | 1/1/71 | ASH & SONS | 6 | | | 260 | | DES |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-14A53 | PRUNEDALE | 4/2/81 | ASH & SONS | 8 | 343 | 393 | 400 | DOM; | |
| 13S/02E-14B50 | PRUNEDALE | 10/26/77 | SALINAS PUMP CO | 8 | 160 | 365 | 405 | DOM;IRR; | |
| 13S/02E-14B51 | PRUNEDALE | 4/17/84 | ASH & SONS | 5 | 310 | 350 | 370 | DOM; | |
| 13S/02E-14B52 | PRUNEDALE | 9/7/89 | ASH & SONS | 5 | 340 | 380 | 390 | DOM; | |
| 13S/02E-14B53 | PRUNEDALE | 6/16/59 | C.F. DOUGHERTY | 12 | 268 | 308 | 316 | DOM; | |
| 13S/02E-14B54 | PRUNEDALE | 9/13/88 | ASH & SONS | 5 | 257 | 297 | 335 | DOM; | |
| 13S/02E-14C01 | PRUNEDALE | 5/7/59 | C.F. DOUGHERTY | 10 | 176 | 236 | 244 | IRR; | |
| 13S/02E-14C50 | PRUNEDALE | 8/25/88 | C.F. DOUGHERTY | | | | 235 | | DES |
| 13S/02E-14C51 | PRUNEDALE | 9/9/70 | C.F. DOUGHERTY | 8 | 272 | 312 | 320 | DOM; | |
| 13S/02E-14C52 | PRUNEDALE | 9/14/76 | ASH & SONS | 7 | 248 | 280 | 285 | DOM; | |
| 13S/02E-14C53 | PRUNEDALE | 11/25/49 | C.F. DOUGHERTY | 8 | 114 | 135 | 144 | DOM; | |
| 13S/02E-14C54 | PRUNEDALE | 3/23/84 | C.F. DOUGHERTY | 8 | 300 | 340 | 348 | DOM; | |
| 13S/02E-14C55 | PAJARO-SPRINGFIELD | 1/22/92 | ASH & SONS | | | | 126 | | DES; |
| 13S/02E-14C56 | PAJARO-SPRINGFIELD | 1/16/92 | ASH & SONS | 5 | 145 | 185 | 185 | DOM; | |
| 13S/02E-14D01 | PRUNEDALE | 9/14/79 | ASH & SONS | 10 | 130 | 160 | 160 | DOM; | |
| 13S/02E-14D02 | PRUNEDALE | | MCCULLUM | | | | | DOM; | |
| 13S/02E-14D50 | PRUNEDALE | 3/16/81 | ASH & SONS | 5 | 150 | 180 | 200 | DOM; | |
| 13S/02E-14E01 | PRUNEDALE | 3/1/69 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 13S/02E-14E02 | PRUNEDALE | | | 9 | | | 146 | DOM; | |
| 13S/02E-14E03 | PRUNEDALE | | | 7 | 158 | 190 | 190 | DOM; | |
| 13S/02E-14E50 | PRUNEDALE | 11/3/82 | ASH & SONS | 6 | 175 | 215 | 225 | DOM; | |
| 13S/02E-14E51 | PRUNEDALE | 8/28/64 | C.F. DOUGHERTY | 10 | 216 | 256 | 224 | DOM; | |
| 13S/02E-14E52 | PRUNEDALE | 5/6/86 | ASH & SONS | 5 | 120 | 160 | 160 | DOM; | |
| 13S/02E-14E53 | PRUNEDALE | 4/25/90 | ASH & SONS | 5 | 100 | 140 | 145 | DOM; | |
| 13S/02E-14E54 | PRUNEDALE | 9/20/69 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/02E-14F01 | PRUNEDALE | 9/4/63 | C.F. DOUGHERTY | 8 | 52 | 92 | 100 | DOM; | |
| 13S/02E-14F50 | PRUNEDALE | 2/24/88 | ASH & SONS | 8 | 240 | 260 | 320 | IRR; | |
| 13S/02E-14F51 | PRUNEDALE | 9/11/81 | ASH & SONS | 8 | 120 | 160 | 160 | DOM; | |
| 13S/02E-14G01 | PRUNEDALE | | | | | | | | |
| 13S/02E-14G50 | PRUNEDALE | 1/23/86 | ASH & SONS | 6 | 340 | 400 | 420 | DOM; | |
| 13S/02E-14H01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-14H50 | PRUNEDALE | 3/2/79 | ASH & SONS | 6 | 280 | 312 | 312 | DOM; | |
| 13S/02E-14H51 | PRUNEDALE | 10/30/85 | ASH & SONS | 6 | 360 | 400 | 420 | DOM; | |
| 13S/02E-14H52 | PRUNEDALE | 6/13/86 | ASH & SONS | 5 | 380 | 420 | 420 | DOM; | |
| 13S/02E-14J50 | PRUNEDALE | 11/3/90 | ASH & SONS | 5 | 340 | 380 | 400 | DOM; | |
| 13S/02E-14J51 | PRUNEDALE | 10/7/86 | ASH & SONS | 8 | 340 | 380 | 415 | DOM; | |
| 13S/02E-14J52 | PRUNEDALE | 4/10/81 | ASH & SONS | 6 | 381 | 421 | 431 | DOM; | |
| 13S/02E-14J53 | PRUNEDALE | 3/29/74 | ASH & SONS | 16 | 375 | 420 | 445 | IRR; | |
| 13S/02E-14L01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-14L50 | PRUNEDALE | 5/19/89 | ASH & SONS | 5 | 245 | 285 | 302 | DOM; | |
| 13S/02E-14L51 | PRUNEDALE | 10/31/88 | ASH & SONS | 5 | 260 | 300 | 305 | DOM | |
| 13S/02E-14M01 | PRUNEDALE | | | 10 | | | 142 | DOM; | |
| 13S/02E-14M02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-14M50 | PRUNEDALE | 4/14/89 | ASH & SONS | 5 | 260 | 300 | 302 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-14M51 | PRUNEDALE | 6/10/88 | ASH & SONS | 5 | 260 | 300 | 301 | DOM; | |
| 13S/02E-14M52 | PRUNEDALE | 3/10/89 | ASH & SONS | 5 | 254 | 294 | 303 | DOM; | |
| 13S/02E-14M53 | PRUNEDALE | 12/20/50 | C.F. DOUGHERTY | 8 | 60 | 81 | 90 | DOM; | |
| 13S/02E-14N50 | PRUNEDALE | 5/10/82 | ASH & SONS | 6 | 115 | 155 | 170 | DOM; | |
| 13S/02E-14P01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-14Q50 | PRUNEDALE | 8/30/79 | ASH & SONS | 5 | 160 | 200 | 210 | DOM; | |
| 13S/02E-14Q51 | PRUNEDALE | 4/19/83 | ASH & SONS | 6 | 164 | 204 | 215 | IRR; | |
| 13S/02E-14T50 | PRUNEDALE | | ROBINETT & SONS | 6 | 230 | 312 | 312 | DOM; | |
| 13S/02E-14T51 | PRUNEDALE | 9/19/74 | ASH & SONS | 6 | 304 | 340 | 355 | DOM; | |
| 13S/02E-14T52 | PRUNEDALE | 12/12/61 | C.F. DOUGHERTY | 8 | 86 | 126 | 132 | DOM; | |
| 13S/02E-14T53 | PRUNEDALE | 9/29/62 | C.F. DOUGHERTY | 8 | 280 | 320 | 328 | DOM; | |
| 13S/02E-14T54 | PRUNEDALE | 10/17/73 | ASH & SONS | 7 | 293 | 329 | 340 | DOM; | |
| 13S/02E-14T55 | PRUNEDALE | 3/10/66 | FREEDOM GEN REPAIR & PUMP | 8 | 128 | 160 | 164 | DOM; | |
| 13S/02E-14T56 | PRUNEDALE | 6/3/53 | SALINAS PUMP CO | 12 | 160 | 290 | 290 | IRR; | |
| 13S/02E-14T57 | PRUNEDALE | 7/12/76 | C.F. DOUGHERTY | 10 | 277 | 357 | 365 | DOM; | |
| 13S/02E-14T58 | PRUNEDALE | 9/10/76 | ASH & SONS | 6 | 281 | 313 | 363 | DOM; | |
| 13S/02E-14T59 | PRUNEDALE | 12/17/80 | ASH & SONS | 6 | 260 | 300 | 305 | DOM; | |
| 13S/02E-14T60 | PRUNEDALE | 3/29/55 | C.F. DOUGHERTY | 8 | 272 | 312 | 320 | DOM; | |
| 13S/02E-14T61 | PRUNEDALE | 8/31/61 | ASH & SONS | 6 | 42 | 80 | 93 | DOM;IRR; | |
| 13S/02E-14T62 | PRUNEDALE | 7/15/80 | C.F. DOUGHERTY | 10 | 332 | 372 | 380 | DOM; | |
| 13S/02E-14T63 | PRUNEDALE | 10/20/54 | NUNES | 12 | 172 | 258 | 270 | IRR; | |
| 13S/02E-14T64 | PRUNEDALE | 2/5/80 | ASH & SONS | 8 | 200 | 240 | 248 | DOM; | |
| 13S/02E-14T65 | PRUNEDALE | 7/14/53 | C.F. DOUGHERTY | 10 | 69 | 120 | 129 | DOM; | |
| 13S/02E-14T66 | PRUNEDALE | 5/20/71 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | DOM; | |
| 13S/02E-14T67 | PRUNEDALE | 7/16/80 | ASH & SONS | 6 | 316 | 348 | 360 | DOM; | |
| 13S/02E-14T68 | PRUNEDALE | 10/18/73 | C.F. DOUGHERTY | 8 | 132 | 172 | 180 | DOM; | |
| 13S/02E-14T69 | PRUNEDALE | 12/26/62 | C.F. DOUGHERTY | 8 | 88 | 128 | 136 | DOM; | |
| 13S/02E-14T70 | PRUNEDALE | 10/13/78 | SALINAS PUMP CO | 8 | 140 | 300 | 300 | DOM; | |
| 13S/02E-14T71 | PRUNEDALE | 5/27/76 | CLIFFORD PUMP & WELL | 6 | 137 | 187 | 197 | DOM | |
| 13S/02E-14T72 | PRUNEDALE | 3/13/80 | ASH & SONS | 6 | 308 | 340 | 348 | DOM; | |
| 13S/02E-14T73 | PRUNEDALE | 1/3/76 | ASH & SONS | 6 | 118 | 150 | 160 | DOM; | |
| 13S/02E-14T74 | PRUNEDALE | 2/8/74 | C.F. DOUGHERTY | 8 | 300 | 340 | 348 | DOM; | |
| 13S/02E-14T75 | PRUNEDALE | 12/11/79 | ASH & SONS | 6 | 135 | 175 | 175 | DOM; | |
| 13S/02E-14T76 | PRUNEDALE | 3/19/64 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 13S/02E-14T77 | PRUNEDALE | 6/28/66 | C.F. DOUGHERTY | 8 | 244 | 284 | 292 | DOM; | |
| 13S/02E-14T78 | PRUNEDALE | 10/26/79 | ASH & SONS | 5 | 180 | 220 | 220 | DOM; | |
| 13S/02E-14T79 | PRUNEDALE | 3/27/56 | C.F. DOUGHERTY | 8 | 232 | 272 | 280 | DOM; | |
| 13S/02E-14T80 | PRUNEDALE | 10/19/74 | ASH & SONS | 6 | 308 | 340 | 355 | DOM; | |
| 13S/02E-14T81 | PRUNEDALE | 11/29/75 | ASH & SONS | 7 | 131 | 163 | 175 | DOM; | |
| 13S/02E-14T82 | PRUNEDALE | 4/30/71 | C.F. DOUGHERTY | 10 | | | 156 | DOM; | |
| 13S/02E-14T83 | PRUNEDALE | 2/22/72 | ASH & SONS | 6 | 130 | 166 | 175 | DOM; | |
| 13S/02E-14T84 | PRUNEDALE | 6/5/69 | FREEDOM GEN REPAIR & PUMP | 20 | 346 | 406 | 406 | IRR; | |
| 13S/02E-14T85 | PRUNEDALE | 6/7/76 | CLIFFORD PUMP & WELL | 12 | 180 | 236 | 244 | IRR | |
| 13S/02E-14T86 | PRUNEDALE | 3/8/76 | ASH & SONS | 7 | 318 | 350 | 360 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-14T87 | PRUNEDALE | 5/12/75 | SALINAS PUMP CO | 12 | 432 | 504 | 524 | DOM;IRR; | |
| 13S/02E-14T88 | PRUNEDALE | | ROBINETT & SONS | 6 | 230 | 312 | 312 | DOM; | |
| 13S/02E-14T89 | PRUNEDALE | 6/3/53 | SALINAS PUMP CO | 12 | 160 | 290 | 290 | IRR; | |
| 13S/02E-14T90 | PRUNEDALE | 7/14/53 | C.F. DOUGHERTY | 10 | 69 | 120 | 129 | DOM; | |
| 13S/02E-14T91 | PRUNEDALE | 10/20/54 | NUNES | 12 | 172 | 258 | 270 | IRR; | |
| 13S/02E-15A50 | PRUNEDALE | 9/24/64 | SALINAS PUMP CO | 10 | 160 | 300 | 300 | IRR; | |
| 13S/02E-15F01 | PRUNEDALE | | | | | | | | |
| 13S/02E-15H50 | PRUNEDALE | 12/22/87 | ASH & SONS | 5 | 375 | 435 | 440 | DOM; | |
| 13S/02E-15H51 | PRUNEDALE | 5/8/92 | ASH & SONS | 5 | 320 | 360 | 360 | DOM; | |
| 13S/02E-15H52 | PRUNEDALE | 10/15/85 | ASH & SONS | 5 | 110 | 150 | 165 | DOM; | DES; |
| 13S/02E-15J01 | PRUNEDALE | 1/1/58 | | | | | 75 | | |
| 13S/02E-15J50 | PRUNEDALE | 9/22/77 | C.F. DOUGHERTY | 12 | 146 | 206 | 216 | IRR; | |
| 13S/02E-15J51 | PRUNEDALE | 5/24/68 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/02E-15J52 | PRUNEDALE | 4/24/92 | ASH & SONS | 5 | 120 | 160 | 160 | DOM; | |
| 13S/02E-15J53 | PRUNEDALE | 5/4/92 | ASH & SONS | | | | 100 | | DES; |
| 13S/02E-15K51 | PRUNEDALE | 12/9/86 | ASH & SONS | 5 | 120 | 160 | 165 | DOM; | |
| 13S/02E-15K52 | PRUNEDALE | 5/3/73 | ASH & SONS | 7 | 60 | 80 | 85 | DOM; | |
| 13S/02E-15K53 | PRUNEDALE | 11/8/85 | C.F. DOUGHERTY | 10 | 152 | 232 | 260 | IRR; | |
| 13S/02E-15L01 | MORO COJO | | PRECISION DRILLING | 12 | 245 | 618 | 910 | IND; | |
| 13S/02E-15M01 | PRUNEDALE | | PRECISION DRILLING | | | | 1014 | MUN; | |
| 13S/02E-15M02 | MORO COJO | 8/8/62 | PRECISION DRILLING | 14 | 400 | 750 | 750 | IND; | |
| 13S/02E-15M03 | PRUNEDALE | 10/2/84 | SALINAS PUMP CO | | 810 | 1050 | 1050 | IND; | |
| 13S/02E-15M50 | PRUNEDALE | 9/13/84 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 13S/02E-15M51 | PRUNEDALE | 12/1/74 | C & N PUMP & WELL CO | | 309 | 844 | 930 | IND | |
| 13S/02E-15M52 | PRUNEDALE | 7/9/73 | C.F. DOUGHERTY | 8 | 124 | 164 | 172 | DOM; | |
| 13S/02E-15M53 | PRUNEDALE | 11/30/71 | C & N PUMP & WELL CO | 14 | 305 | 876 | 955 | IND | |
| 13S/02E-15Q01 | PRUNEDALE | | | 24 | 246 | 0 | 340 | DOM; | |
| 13S/02E-15Q50 | PRUNEDALE | 7/21/82 | ASH & SONS | 6 | 160 | 200 | 215 | DOM; | |
| 13S/02E-15R01 | PRUNEDALE | 8/30/74 | DOUGHERTY PUMP & DRILLING | 8 | 124 | 164 | 172 | DOM; | |
| 13S/02E-15R50 | PRUNEDALE | 3/12/87 | ASH & SONS | 5 | 140 | 180 | 185 | DOM; | |
| 13S/02E-15R51 | PRUNEDALE | 10/18/84 | ASH & SONS | 6 | 140 | 180 | 190 | DOM; | |
| 13S/02E-15R52 | PRUNEDALE | 5/4/82 | ASH & SONS | 6 | 120 | 160 | 178 | DOM;IRR; | |
| 13S/02E-15T50 | PRUNEDALE | 10/8/67 | ASH & SONS | 6 | 125 | 157 | 168 | DOM; | |
| 13S/02E-15T51 | MORO COJO | 9/12/77 | C.F. DOUGHERTY | 12 | 470 | 550 | 560 | IRR; | |
| 13S/02E-15T52 | PRUNEDALE | 5/27/70 | CLIFFORD PUMP & WELL | 10 | 144 | 172 | 180 | DOM | |
| 13S/02E-15T53 | PRUNEDALE | 12/4/75 | ASH & SONS | 7 | 120 | 152 | 165 | DOM; | |
| 13S/02E-15T54 | PRUNEDALE | 7/30/60 | C.F. DOUGHERTY | 8 | 96 | 136 | 140 | DOM; | |
| 13S/02E-16B01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-16D01 | MORO COJO | 6/22/63 | VALLEY PUMP | 12 | 124 | 220 | 220 | IRR; | ABAN |
| 13S/02E-16E01 | MORO COJO | | ALSOP & SON | 12 | | | 174 | IRR; | DES; |
| 13S/02E-16F01 | MORO COJO | 9/30/40 | ALEXANDER | 12 | 127 | 199 | 222 | IRR; | |
| 13S/02E-16L01 | PRUNEDALE | | | | | | 80 | DOM; | |
| 13S/02E-16R50 | PAJARO-SPRINGFIELD | 6/13/68 | THE PUMP SHOP | 12 | 128 | 148 | 152 | DOM; | |
| 13S/02E-16T50 | PAJARO-SPRINGFIELD | 7/28/55 | C.F. DOUGHERTY | 10 | 80 | 140 | 148 | IRR; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-16T51 | MORO COJO | 6/8/69 | WESTERN DRILLING | 12 | 118 | 230 | 250 | DOM; | |
| 13S/02E-16T52 | PAJARO-SPRINGFIELD | 8/8/59 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/02E-16T53 | MORO COJO | 12/1/67 | C.F. DOUGHERTY | 12 | 100 | 180 | 200 | DOM; | |
| 13S/02E-16T54 | PAJARO-SPRINGFIELD | 5/25/67 | C.F. DOUGHERTY | 12 | 162 | 222 | 232 | DOM; | |
| 13S/02E-17B50 | MORO COJO | 2/16/74 | ASH & SONS | 20 | 520 | 720 | 745 | IND; | |
| 13S/02E-17C01 | MORO COJO | 3/1/45 | | 20 | | | 900 | IND; | ABAN; |
| 13S/02E-17D50 | MORO COJO | 1/19/87 | MITTELHAUSER CORP | 2 | 29 | 39 | 39 | MON | |
| 13S/02E-17D51 | MORO COJO | 1/19/87 | MITTELHAUSER CORP | 2 | 33 | 43 | 45 | MON | |
| 13S/02E-17D52 | MORO COJO | 1/23/87 | MITTELHAUSER CORP | 2 | 31 | 41 | 41 | MON | |
| 13S/02E-17D53 | MORO COJO | 1/16/87 | MITTELHAUSER CORP | 2 | 27 | 37 | 40 | MON | |
| 13S/02E-17E50 | MORO COJO | 1/23/87 | MITTELHAUSER CORP | 4 | 22 | 32 | 32 | MON | |
| 13S/02E-17E51 | MORO COJO | 7/13/88 | MITTELHAUSER CORP | | | | 60 | | DES |
| 13S/02E-17E52 | MORO COJO | 1/12/87 | MITTELHAUSER CORP | 2 | 43 | 47 | 47 | MON | |
| 13S/02E-17E53 | MORO COJO | 1/13/87 | MITTELHAUSER CORP | 2 | 19 | 39 | 43 | MON | |
| 13S/02E-17E54 | MORO COJO | 10/25/85 | WOODWARD-CLYDE | 4 | 15 | 34 | 37 | MON | |
| 13S/02E-17E55 | PERCHED | 7/14/88 | MITTELHAUSER CORP | 4 | 23 | 38 | 39 | MON | |
| 13S/02E-17E56 | MORO COJO | 7/13/88 | MITTELHAUSER CORP | | | | 57 | | DES |
| 13S/02E-17E57 | PERCHED | 7/13/88 | MITTELHAUSER CORP | 4 | 22 | 32 | 34 | MON | |
| 13S/02E-17E58 | MORO COJO | 1/22/87 | MITTELHAUSER CORP | 2 | 25 | 35 | 37 | MON | |
| 13S/02E-17E59 | MORO COJO | 1/27/87 | MITTELHAUSER CORP | 4 | 73 | 83 | 85 | MON | |
| 13S/02E-17E60 | MORO COJO | 7/13/88 | MITTELHAUSER CORP | | | | 56 | | DES |
| 13S/02E-17E61 | MORO COJO | 1/26/87 | MITTELHAUSER CORP | 4 | 29 | 34 | 40 | MON | |
| 13S/02E-17E62 | MORO COJO | 1/26/87 | MITTELHAUSER CORP | 8 | 27 | 56 | 65 | TEST WELL | |
| 13S/02E-17E63 | MORO COJO | 8/23/85 | WOODWARD-CLYDE | 2 | 12 | 43 | 51 | TEST WELL | |
| 13S/02E-17E64 | MORO COJO | 9/12/85 | WOODWARD-CLYDE | 4 | 18 | 49 | 51 | TEST WELL | |
| 13S/02E-17F50 | PERCHED | 7/12/88 | MITTELHAUSER CORP | 4 | 22 | 32 | 34 | MON | |
| 13S/02E-17F51 | MORO COJO | 7/12/88 | MITTELHAUSER CORP | | | | 50 | | DES |
| 13S/02E-17F52 | MORO COJO | 1/21/87 | MITTELHAUSER CORP | 2 | 19 | 29 | 31 | MON | |
| 13S/02E-17F53 | MORO COJO | 1/20/87 | MITTELHAUSER CORP | 2 | 26 | 36 | 37 | MON | |
| 13S/02E-17F54 | MORO COJO | 1/8/87 | MITTELHAUSER CORP | 2 | 81 | 96 | 97 | MON | |
| 13S/02E-17G01 | MORO COJO | 2/1/50 | MOSS | 14 | 700 | 950 | 950 | IND; | |
| 13S/02E-17G02 | MORO COJO | 2/1/50 | MOSS | 14 | 90 | 160 | 170 | IND; | |
| 13S/02E-17G03 | MORO COJO | 9/30/51 | MOSS | 12 | 696 | 912 | 912 | IND; | |
| 13S/02E-17G04 | MORO COJO | 2/1/50 | MOSS | 14 | 120 | 200 | 200 | IND; | |
| 13S/02E-17H01 | MORO COJO | 1/1/55 | | 12 | | | 220 | IRR; | ABAN; |
| 13S/02E-17H02 | MORO COJO | 2/1/50 | MOSS | 24 | 450 | 950 | 1273 | IND; | |
| 13S/02E-17H03 | MORO COJO | 1/8/69 | | | | | | IRR; | |
| 13S/02E-17H50 | MORO COJO | 1/28/87 | MITTELHAUSER CORP | 2 | 28 | 38 | 40 | MON | |
| 13S/02E-17J01 | MORO COJO | 5/12/53 | NUNES WELL | | 140 | 190 | 250 | IRR; | ABAN |
| 13S/02E-17M01 | MORO COJO | 9/24/49 | SAN JOSE DRILLING | | 488 | 644 | 816 | IND; | |
| 13S/02E-17M02 | MORO COJO | | | | | | | DOM; | ABAN; |
| 13S/02E-17P01 | MORO COJO | 10/29/49 | ALSOP | 10 | | | 135 | IND; | |
| 13S/02E-17R01 | MORO COJO | 3/1/45 | | 12 | | | | IRR; | ABAN; |
| 13S/02E-18A50 | MORO COJO | 1/19/87 | MITTELHAUSER CORP | 2 | 28 | 38 | 40 | MON | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-18A51 | MORO COJO | 1/15/87 | MITTELHAUSER CORP | 2 | 29 | 39 | 39 | MON | |
| 13S/02E-18B50 | MORO COJO | 1/7/81 | MAGGIORA BROS | 8 | 13 | 28 | 28 | | |
| 13S/02E-18H50 | MORO COJO | 1/14/87 | MITTELHAUSER CORP | 4 | 22 | 32 | 32 | MON | |
| 13S/02E-18H51 | MORO COJO | 1/14/87 | MITTELHAUSER CORP | 4 | 42 | 52 | 73 | MON | |
| 13S/02E-18H52 | MORO COJO | 1/14/87 | MITTELHAUSER CORP | 4 | 32 | 42 | 42 | MON | |
| 13S/02E-18J50 | MORO COJO | 11/21/90 | MAGGIORA BROS | | | | 15 | | DESTROYED |
| 13S/02E-18J51 | MORO COJO | 11/21/90 | MAGGIORA BROS | | | | 15 | | DES |
| 13S/02E-18J52 | MORO COJO | 11/21/90 | MAGGIORA BROS | 2 | | | 15 | MON | DESTROYED |
| 13S/02E-18Q01 | MORO COJO | | | | | | | MUN; | ABAN; |
| 13S/02E-18Q50 | MORO COJO | 4/15/50 | C.F. DOUGHERTY | 8 | 120 | 141 | 150 | DOM; | |
| 13S/02E-18T50 | MORO COJO | 12/29/71 | ASH & SONS | 2 | 20 | 30 | 30 | | |
| 13S/02E-18T51 | MORO COJO | 2/18/76 | ASH & SONS | 6 | 18 | 28 | 28 | | |
| 13S/02E-18T52 | MORO COJO | 6/15/79 | MAGGIORA BROS | 6 | 13 | 32 | 33 | | |
| 13S/02E-18T53 | MORO COJO | 12/21/71 | ASH & SONS | 2 | 18 | 28 | 28 | | |
| 13S/02E-19A01 | S V GENERAL | | | | | | | | |
| 13S/02E-19T51 | S V GENERAL | 11/22/59 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/02E-20L02 | S V GENERAL | | | | | | | | |
| 13S/02E-21G01 | MORO COJO | 6/1/47 | ALEXANDER | 16 | 263 | 406 | 406 | IRR; | ABAN; |
| 13S/02E-21G02 | MORO COJO | 1/1/43 | DUER | | 375 | 400 | 425 | IRR; | |
| 13S/02E-21H01 | | | | | | | | | |
| 13S/02E-21L01 | S V GENERAL | | | | | | | | |
| 13S/02E-22B50 | PRUNEDALE | 7/1/82 | ASH & SONS | 6 | 120 | 160 | 180 | DOM; | |
| 13S/02E-22B51 | PRUNEDALE | 9/25/85 | ASH & SONS | 6 | 110 | 150 | 154 | IRR; | |
| 13S/02E-22H50 | PRUNEDALE | 12/27/77 | MAGGIORA BROS | 26 | 160 | 210 | 625 | IRR; | |
| 13S/02E-22T50 | PRUNEDALE | 9/30/71 | ASH & SONS | 6 | 340 | 380 | 380 | DOM; | |
| 13S/02E-22T51 | PRUNEDALE | 2/26/87 | ASH & SONS | 5 | 180 | 220 | 226 | DOM; | |
| 13S/02E-23A50 | PRUNEDALE | 12/4/84 | ASH & SONS | 5 | 120 | 160 | 170 | DOM; | |
| 13S/02E-23A51 | PRUNEDALE | 11/16/87 | ASH & SONS | 5 | 140 | 180 | 185 | DOM; | |
| 13S/02E-23A52 | PRUNEDALE | 11/10/76 | ASH & SONS | 6 | 253 | 285 | 295 | DOM; | |
| 13S/02E-23A53 | PRUNEDALE | 8/5/91 | CHAPPELL PUMP & SUPPLY | 8 | 158 | 238 | 258 | DOM | |
| 13S/02E-23B01 | PRUNEDALE | 8/4/82 | ASH & SONS | 5 | 115 | 155 | 170 | DOM; | |
| 13S/02E-23B02 | PRUNEDALE | 12/11/69 | ASH & SONS | 6 | 180 | 220 | 234 | DOM; | |
| 13S/02E-23B50 | PRUNEDALE | 9/13/71 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/02E-23B51 | PRUNEDALE | 10/30/72 | ASH & SONS | 7 | 200 | 256 | 265 | DOM; | |
| 13S/02E-23D01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-23D02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-23D50 | PRUNEDALE | 3/5/84 | ASH & SONS | 5 | 160 | 200 | 220 | DOM; | |
| 13S/02E-23D51 | PRUNEDALE | 7/10/91 | ASH & SONS | 5 | 140 | 180 | 180 | DOM | |
| 13S/02E-23E01 | PRUNEDALE | 5/13/71 | ASH & SONS | 7 | 156 | 196 | 204 | DOM; | |
| 13S/02E-23E50 | PRUNEDALE | 8/13/85 | ASH & SONS | 5 | 160 | 200 | 205 | DOM; | |
| 13S/02E-23F01 | PRUNEDALE | 12/1/56 | C.F. DOUGHERTY | 12 | 758 | 838 | 860 | IND; | |
| 13S/02E-23F02 | PRUNEDALE | | | 6 | | | 150 | DOM; | |
| 13S/02E-23F03 | PRUNEDALE | | | 13 | | | 175 | DOM; | |
| 13S/02E-23F50 | PRUNEDALE | 12/2/83 | ASH & SONS | 5 | 260 | 300 | 300 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-23F51 | PRUNEDALE | 5/21/90 | ASH & SONS | 5 | 140 | 180 | 190 | DOM; | |
| 13S/02E-23F52 | PRUNEDALE | 11/7/52 | NUNES | 10 | 159 | 201 | 210 | DOM; | |
| 13S/02E-23F54 | PERCHED | 5/6/92 | GILROY PUMP & DRILLING | | | | 61 | | DES |
| 13S/02E-23G50 | PRUNEDALE | 2/9/90 | ASH & SONS | 6 | 240 | 300 | 320 | DOM; | |
| 13S/02E-23G51 | PRUNEDALE | 10/19/87 | ASH & SONS | 5 | 160 | 200 | 205 | DOM; | |
| 13S/02E-23G52 | PRUNEDALE | 10/4/72 | C.F. DOUGHERTY | 8 | 180 | 320 | 328 | DOM; | |
| 13S/02E-23H01 | PRUNEDALE | 9/20/65 | C.F. DOUGHERTY | 8 | | | 204 | DOM; | DES |
| 13S/02E-23H50 | PRUNEDALE | 10/12/90 | ASH & SONS | 5 | 260 | 300 | 303 | DOM; | |
| 13S/02E-23H51 | PRUNEDALE | 7/15/88 | ASH & SONS | 5 | 260 | 300 | 305 | DOM; | |
| 13S/02E-23H53 | PRUNEDALE | 7/22/92 | ASH & SONS | 6 | 350 | 390 | 390 | DOM | |
| 13S/02E-23K50 | PRUNEDALE | 9/8/77 | ASH & SONS | 7 | 118 | 160 | 160 | DOM; | |
| 13S/02E-23K51 | PRUNEDALE | 10/29/52 | NUNES | 12 | 128 | 221 | 228 | DOM; | |
| 13S/02E-23L01 | PRUNEDALE | 12/14/77 | SALINAS PUMP CO | 8 | 98 | 260 | 260 | DOM; | |
| 13S/02E-23M50 | PRUNEDALE | 9/15/87 | ASH & SONS | 5 | 140 | 180 | 183 | DOM; | |
| 13S/02E-23M51 | PRUNEDALE | 5/26/87 | ASH & SONS | 5 | 200 | 240 | 245 | DOM; | |
| 13S/02E-23T50 | PRUNEDALE | 8/19/75 | ASH & SONS | 7 | 128 | 160 | 170 | DOM; | |
| 13S/02E-23T51 | PRUNEDALE | 1/25/73 | ASH & SONS | 7 | 120 | 156 | 175 | DOM; | |
| 13S/02E-23T52 | PRUNEDALE | 12/10/51 | NUNES | 10 | 140 | 240 | 249 | DOM; | |
| 13S/02E-23T53 | PRUNEDALE | 2/1/78 | C.F. DOUGHERTY | 10 | 180 | 240 | 248 | IRR; | |
| 13S/02E-23T54 | PRUNEDALE | 5/19/73 | ASH & SONS | 7 | 200 | 236 | 250 | | |
| 13S/02E-23T55 | PRUNEDALE | 2/23/76 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 13S/02E-23T56 | PRUNEDALE | 1/21/66 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/02E-23T57 | PRUNEDALE | 4/12/74 | ASH & SONS | 7 | 240 | 262 | 282 | DOM; | |
| 13S/02E-23T58 | PRUNEDALE | 2/13/57 | C.F. DOUGHERTY | 12 | 122 | 222 | 232 | MUN; | |
| 13S/02E-23T59 | PRUNEDALE | 7/23/78 | ASH & SONS | 13 | 283 | 315 | 322 | DOM; | |
| 13S/02E-23T60 | PRUNEDALE | 11/28/73 | ASH & SONS | 7 | 200 | 236 | 245 | DOM; | |
| 13S/02E-23T61 | PRUNEDALE | 5/13/65 | C.F. DOUGHERTY | 8 | 196 | 236 | 244 | DOM; | |
| 13S/02E-23T62 | PRUNEDALE | 4/19/66 | C.F. DOUGHERTY | 12 | 110 | 190 | 202 | IRR; | |
| 13S/02E-23T63 | PRUNEDALE | 11/12/59 | C.F. DOUGHERTY | 8 | 196 | 236 | 244 | DOM; | |
| 13S/02E-23T64 | PRUNEDALE | 11/16/76 | ASH & SONS | | 233 | 265 | 265 | DOM; | |
| 13S/02E-23T65 | PRUNEDALE | 5/17/62 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/02E-23T66 | PRUNEDALE | 11/25/75 | ASH & SONS | 7 | 180 | 200 | 210 | DOM; | |
| 13S/02E-23T67 | PRUNEDALE | 6/20/79 | ROBINETT & SONS | 8 | 112 | 292 | 292 | DOM; | |
| 13S/02E-23T68 | PRUNEDALE | 3/25/77 | SALINAS PUMP CO | 14 | 278 | 494 | 610 | IRR; | |
| 13S/02E-23T69 | PRUNEDALE | 6/3/55 | C.F. DOUGHERTY | 8 | 180 | 220 | 228 | DOM;IRR; | |
| 13S/02E-24A01 | PRUNEDALE | 4/28/62 | C.F. DOUGHERTY | 8 | 156 | 196 | 204 | DOM; | |
| 13S/02E-24B01 | PRUNEDALE | 6/3/49 | C.F. DOUGHERTY | 8 | 216 | 237 | 246 | DOM; | |
| 13S/02E-24B02 | PRUNEDALE | | | 8 | | | 320 | DOM; | |
| 13S/02E-24B03 | PRUNEDALE | | | 8 | | | 317 | DOM; | |
| 13S/02E-24B04 | PRUNEDALE | | | | 180 | 320 | 328 | DOM; | |
| 13S/02E-24B50 | PRUNEDALE | 11/17/89 | ASH & SONS | 5 | 260 | 300 | 330 | DOM; | |
| 13S/02E-24B51 | PRUNEDALE | 2/3/93 | ASH & SONS | 5 | 300 | 340 | 340 | DOM | |
| 13S/02E-24B52 | PRUNEDALE | 4/23/93 | ASH & SONS | 5 | 310 | 350 | 350 | | DEEP |
| 13S/02E-24C01 | PRUNEDALE | 9/13/67 | ASH & SONS | 6 | 256 | 296 | 300 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-24C50 | PRUNEDALE | 1/13/87 | ASH & SONS | 5 | 300 | 340 | 350 | DOM; | |
| 13S/02E-24C51 | PRUNEDALE | 10/20/89 | ASH & SONS | 5 | 295 | 335 | 340 | DOM; | |
| 13S/02E-24D50 | PRUNEDALE | 6/26/67 | SALINAS PUMP CO | 8 | 240 | 380 | 400 | DOM; | |
| 13S/02E-24D51 | PRUNEDALE | 7/16/86 | ASH & SONS | 6 | 300 | 340 | 345 | DOM; | |
| 13S/02E-24D52 | PRUNEDALE | 6/26/92 | ASH & SONS | | 357 | 397 | 397 | DOM | |
| 13S/02E-24E01 | PRUNEDALE | | MURPHY | 10 | 320 | 400 | 400 | DOM; | |
| 13S/02E-24E50 | PRUNEDALE | 9/15/77 | ASH & SONS | 7 | 248 | 280 | 280 | DOM; | |
| 13S/02E-24F01 | PRUNEDALE | 8/17/84 | ASH & SONS | 5 | 260 | 320 | 320 | DOM; | |
| 13S/02E-24F02 | PRUNEDALE | | | 8 | 264 | 312 | 320 | DOM; | |
| 13S/02E-24F50 | PRUNEDALE | 9/7/89 | C.F. DOUGHERTY | 5 | 240 | 300 | 300 | DOM; | |
| 13S/02E-24G51 | PRUNEDALE | 1/28/88 | ASH & SONS | 5 | 260 | 300 | 320 | DOM; | |
| 13S/02E-24G52 | PRUNEDALE | 1/26/88 | ASH & SONS | 5 | 260 | 300 | 320 | DOM; | |
| 13S/02E-24N01 | PRUNEDALE | 3/16/66 | SALINAS PUMP CO | 12 | 300 | 600 | 678 | | |
| 13S/02E-24N50 | PRUNEDALE | 7/13/67 | SALINAS PUMP CO | 12 | 300 | 600 | 611 | DOM; | |
| 13S/02E-24T50 | PRUNEDALE | 4/17/74 | ASH & SONS | 6 | 240 | 268 | 282 | DOM | |
| 13S/02E-24T51 | PRUNEDALE | 3/27/73 | ASH & SONS | 7 | 172 | 208 | 220 | DOM; | |
| 13S/02E-24T52 | PRUNEDALE | 5/9/72 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 13S/02E-24T53 | PRUNEDALE | 7/14/61 | C.F. DOUGHERTY | 8 | 208 | 248 | 256 | DOM; | |
| 13S/02E-24T54 | PRUNEDALE | 6/16/76 | SALINAS PUMP CO | 14 | 176 | 526 | 676 | IRR; | |
| 13S/02E-24T55 | PRUNEDALE | 7/28/64 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 13S/02E-24T56 | PRUNEDALE | 6/24/63 | C.F. DOUGHERTY | 8 | 168 | 208 | 216 | DOM; | |
| 13S/02E-24T57 | PRUNEDALE | 9/30/64 | C.F. DOUGHERTY | 10 | 176 | 292 | 300 | DOM; | |
| 13S/02E-24T58 | PRUNEDALE | 2/3/73 | ASH & SONS | 7 | 229 | 265 | 280 | DOM; | |
| 13S/02E-24T59 | PRUNEDALE | 9/1/76 | SALINAS PUMP CO | 14 | 230 | 620 | 686 | IRR; | |
| 13S/02E-24T60 | PRUNEDALE | | CLIFFORD PUMP & WELL | 10 | 275 | 325 | 571 | IRR | |
| 13S/02E-24T61 | PRUNEDALE | 3/1/67 | C.F. DOUGHERTY | 8 | 180 | 220 | 228 | DOM; | |
| 13S/02E-24T62 | PRUNEDALE | 7/1/56 | NUNES | 8 | 117 | 167 | 175 | | |
| 13S/02E-24T63 | PRUNEDALE | 8/21/62 | C.F. DOUGHERTY | 8 | 84 | 124 | 132 | DOM; | |
| 13S/02E-24T64 | PRUNEDALE | 3/7/79 | ASH & SONS | 7 | 280 | 312 | 330 | DOM; | |
| 13S/02E-24T65 | PRUNEDALE | 5/3/76 | ASH & SONS | 66 | 208 | 240 | 240 | DOM; | |
| 13S/02E-24T66 | PRUNEDALE | 10/17/53 | C.F. DOUGHERTY | 8 | 212 | 244 | 252 | DOM; | |
| 13S/02E-24T67 | PRUNEDALE | 11/27/53 | C.F. DOUGHERTY | 8 | 157 | 201 | 205 | DOM; | |
| 13S/02E-25A01 | PRUNEDALE | | | | | | 248 | | |
| 13S/02E-25A50 | PRUNEDALE | 11/16/77 | ASH & SONS | 7 | 229 | 261 | 261 | DOM; | |
| 13S/02E-25J50 | PRUNEDALE | 6/9/77 | ASH & SONS | 7 | 221 | 253 | 253 | DOM; | |
| 13S/02E-25T50 | PRUNEDALE | 3/28/75 | ASH & SONS | 7 | 248 | 280 | 295 | DOM; | |
| 13S/02E-25T51 | PRUNEDALE | 2/12/76 | ASH & SONS | 7 | 268 | 300 | 310 | DOM; | |
| 13S/02E-25T52 | PRUNEDALE | 10/5/66 | C.F. DOUGHERTY | 8 | 132 | 172 | 180 | DOM; | |
| 13S/02E-25T53 | PRUNEDALE | 3/31/77 | CULLUM SYSTEMS | 11 | 300 | 520 | 610 | DOM; | |
| 13S/02E-26A01 | PRUNEDALE | | | | | | 188 | | |
| 13S/02E-26C01 | PRUNEDALE | 10/11/77 | C & N PUMP & WELL CO | 14 | 200 | 620 | 640 | DOM | |
| 13S/02E-26F50 | PRUNEDALE | 2/26/88 | ASH & SONS | 6 | 290 | 330 | 350 | DOM; | |
| 13S/02E-26F51 | PRUNEDALE | 4/3/91 | ASH & SONS | 6 | 296 | 336 | 336 | DOM | |
| 13S/02E-26L01 | PRUNEDALE | | | | | | 250 | IRR; | ABAN |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/02E-26T50 | PRUNEDALE | 8/3/76 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/02E-26T51 | PRUNEDALE | 10/6/74 | BEN BARROW CO | 30 | 292 | 472 | 496 | IRR; | |
| 13S/02E-26T52 | PRUNEDALE | 10/11/77 | C & N PUMP & WELL CO | 14 | 200 | 620 | 675 | DOM | |
| 13S/02E-26T53 | PRUNEDALE | 1/30/78 | SALINAS PUMP CO | 16 | 168 | 360 | 414 | DOM; | |
| 13S/02E-27B01 | PRUNEDALE | 7/7/77 | SALINAS PUMP CO | 12 | 500 | 600 | 640 | DOM; | |
| 13S/02E-27G01 | PRUNEDALE | | | 8 | 140 | 155 | 161 | DOM; | |
| 13S/02E-27T50 | PRUNEDALE | 2/21/68 | ASH & SONS | 6 | 200 | 236 | 265 | DOM; | |
| 13S/02E-27T51 | PRUNEDALE | 5/24/72 | ASH & SONS | 6 | 180 | 216 | 230 | DOM; | |
| 13S/02E-27T54 | PRUNEDALE | 7/27/78 | | 12 | 500 | 600 | | | |
| 13S/02E-27T55 | PRUNEDALE | 6/18/86 | ASH & SONS | 8 | 290 | 350 | 350 | IRR; | |
| 13S/02E-28P50 | PERCHED | 11/19/92 | ASH & SONS | | | | 66 | | DES |
| 13S/02E-28T50 | PRUNEDALE | 5/11/79 | MAGGIORA BROS | 12 | 320 | 370 | 403 | IRR; | |
| 13S/02E-28T51 | PRUNEDALE | 6/8/69 | WESTERN DRILLING | 12 | 118 | 230 | 250 | DOM; | |
| 13S/02E-29T53 | PRUNEDALE | 7/20/62 | C.F. DOUGHERTY | 8 | 24 | 64 | 72 | DOM; | |
| 13S/02E-33H50 | PERCHED | 8/16/88 | VETTER | 2 | 25 | 45 | 45 | MON | |
| 13S/02E-33J50 | PRUNEDALE | 10/14/87 | WEST TEK | 4 | 20 | 45 | 45 | RESTOR; | |
| 13S/02E-33R02 | S V GENERAL | | | | | | | | |
| 13S/02E-34B50 | PRUNEDALE | 6/28/79 | ASH & SONS | 8 | 200 | 240 | 260 | DOM; | |
| 13S/02E-34E50 | PERCHED | 8/22/89 | | 2 | 6 | 45 | 47 | | |
| 13S/02E-34F51 | PRUNEDALE | 4/2/59 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/02E-34N02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/02E-34T50 | PERCHED | | VETTER | 2 | 25 | 45 | 45 | MON | |
| 13S/02E-80T50 | PRUNEDALE | 10/23/75 | ASH & SONS | 7 | 398 | 430 | 440 | DOM; | |
| 13S/02E-80T51 | PRUNEDALE | 3/23/59 | VALLEY PUMP | | | | 141 | | |
| 13S/02E-80T52 | PRUNEDALE | 12/19/63 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 13S/02E-80T53 | PRUNEDALE | 8/13/75 | C.F. DOUGHERTY | 8 | 184 | 224 | 232 | DOM; | |
| 13S/02E-80T54 | PRUNEDALE | 11/23/71 | ASH & SONS | 6 | 80 | 212 | 220 | DOM; | |
| 13S/02E-80T55 | PRUNEDALE | 3/17/59 | VALLEY PUMP | | | | 241 | | |
| 13S/02E-80T56 | PRUNEDALE | 4/13/59 | VALLEY PUMP | | | | 226 | | |
| 13S/02E-80T57 | PRUNEDALE | 6/18/65 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 13S/02E-80T58 | PRUNEDALE | 10/16/69 | C.F. DOUGHERTY | 8 | 292 | 332 | 340 | DOM; | |
| 13S/02E-80T59 | PRUNEDALE | 11/10/60 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | IRR; | |
| 13S/02E-80T60 | PRUNEDALE | 10/23/63 | C.F. DOUGHERTY | 8 | 72 | 112 | 120 | DOM; | |
| 13S/03E-01A01 | PAJARO-SPRINGFIELD | | PRICE | | | | | IRR; | |
| 13S/03E-03C50 | PRUNEDALE | 6/5/86 | ASH & SONS | 5 | 298 | 398 | 406 | DOM; | |
| 13S/03E-03N50 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-03P01 | PRUNEDALE | 3/30/80 | ALSOP & SON | 8 | 80 | 200 | 415 | DOM; | |
| 13S/03E-03P50 | PRUNEDALE | 7/7/88 | ASH & SONS | 5 | 260 | 300 | 300 | DOM; | |
| 13S/03E-03P51 | PRUNEDALE | 1/1/61 | MELS DRILLING | 8 | 80 | 200 | | DOM; | |
| 13S/03E-03T50 | PRUNEDALE | 7/13/66 | C.F. DOUGHERTY | 8 | 60 | 304 | 320 | DOM; | |
| 13S/03E-03T51 | PRUNEDALE | 1/24/61 | SALINAS PUMP CO | | | | 152 | | |
| 13S/03E-03T52 | PRUNEDALE | 1/30/61 | SALINAS PUMP CO | 10 | 97 | 281 | 350 | | |
| 13S/03E-03T53 | PRUNEDALE | 3/14/57 | C.F. DOUGHERTY | 8 | 52 | 92 | 100 | IRR; | |
| 13S/03E-04B50 | PRUNEDALE | 12/21/89 | ASH & SONS | 5 | 340 | 600 | 603 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-04C50 | PRUNEDALE | 7/18/85 | MAGGIORA BROS | 5 | 200 | 381 | 400 | DOM; | |
| 13S/03E-04D50 | PRUNEDALE | 1/7/89 | ASH & SONS | 5 | 375 | 415 | 420 | DOM; | |
| 13S/03E-04E50 | PRUNEDALE | 10/16/81 | ASH & SONS | 5 | 405 | 445 | 448 | DOM; | |
| 13S/03E-04F50 | PRUNEDALE | 4/26/88 | ASH & SONS | 5 | 425 | 485 | 490 | DOM; | |
| 13S/03E-04F51 | PRUNEDALE | 10/23/86 | ASH & SONS | 5 | 290 | 450 | 471 | DOM; | |
| 13S/03E-04F52 | PRUNEDALE | 7/4/91 | ASH & SONS | 5 | 380 | 420 | 420 | DOM | |
| 13S/03E-04F53 | PRUNEDALE | 8/24/93 | ASH & SONS | 5 | 250 | 310 | 310 | DOM | |
| 13S/03E-04K01 | PRUNEDALE | 10/17/74 | MAGGIORA BROS | 9 | 370 | 430 | 535 | DOM; | |
| 13S/03E-04K50 | PRUNEDALE | 5/5/54 | C.F. DOUGHERTY | 8 | 24 | 56 | 64 | DOM; | |
| 13S/03E-04K51 | PRUNEDALE | 9/14/78 | ROBINETT & SONS | 8 | 120 | 300 | 300 | DOM; | |
| 13S/03E-04K52 | PRUNEDALE | 5/31/91 | ASH & SONS | | 550 | 610 | 610 | DOM | |
| 13S/03E-04L01 | PRUNEDALE | 5/17/56 | C.F. DOUGHERTY | 8 | 212 | 252 | 260 | DOM; | |
| 13S/03E-04L02 | PRUNEDALE | 4/14/91 | THE PUMP SHOP | 8 | 220 | 260 | 268 | DOM; | |
| 13S/03E-04L03 | PRUNEDALE | | | 7 | | | 348 | DOM; | |
| 13S/03E-04L50 | PRUNEDALE | 3/20/68 | THE PUMP SHOP | 8 | 204 | 244 | 252 | DOM; | |
| 13S/03E-04M01 | PRUNEDALE | | | 8 | | | 233 | DOM; | |
| 13S/03E-04M50 | PRUNEDALE | 7/31/78 | ROBINETT & SONS | 8 | 220 | 331 | 331 | DOM; | |
| 13S/03E-04M51 | PRUNEDALE | 5/25/93 | ASH & SONS | 5 | 184 | 224 | 224 | DOM | |
| 13S/03E-04N50 | PRUNEDALE | 8/23/72 | ASH & SONS | 7 | 330 | 366 | 380 | DOM; | |
| 13S/03E-04N51 | PRUNEDALE | 9/29/81 | ASH & SONS | 5 | 234 | 274 | 276 | DOM; | |
| 13S/03E-04N52 | PRUNEDALE | 8/11/81 | ASH & SONS | 5 | 253 | 293 | 301 | DOM; | |
| 13S/03E-04N53 | PRUNEDALE | 6/16/79 | CHAPPELL PUMP & SUPPLY | 6 | 93 | 273 | 277 | DOM | |
| 13S/03E-04P01 | PRUNEDALE | 5/13/78 | ASH & SONS | 66 | 215 | 543 | 543 | DOM; | |
| 13S/03E-04P02 | PRUNEDALE | | | 8 | 40 | 0 | 200 | DOM; | |
| 13S/03E-04Q01 | PRUNEDALE | 12/12/73 | | 6 | 150 | 400 | 495 | DOM; | |
| 13S/03E-04R50 | PRUNEDALE | 12/8/89 | ASH & SONS | 5 | 180 | 420 | 424 | DOM; | |
| 13S/03E-04R51 | PRUNEDALE | 11/10/87 | ASH & SONS | 5 | 380 | 610 | 610 | DOM; | |
| 13S/03E-04T50 | PRUNEDALE | 6/14/83 | ASH & SONS | 5 | 337 | 367 | 374 | DOM; | |
| 13S/03E-04T51 | PRUNEDALE | 10/11/68 | FREEDOM GEN REPAIR & PUMP | | | | 106 | | |
| 13S/03E-04T52 | PRUNEDALE | 10/7/76 | ASH & SONS | 6 | 128 | 170 | 170 | DOM; | |
| 13S/03E-04T53 | PRUNEDALE | 11/14/52 | NUNES | 8 | 210 | 231 | 240 | DOM; | |
| 13S/03E-04T54 | PRUNEDALE | 6/16/74 | C.F. DOUGHERTY | 8 | 224 | 326 | 330 | DOM; | |
| 13S/03E-04T55 | PRUNEDALE | 8/18/72 | ASH & SONS | 7 | 240 | 276 | 284 | DOM; | |
| 13S/03E-04T56 | PRUNEDALE | 9/9/78 | CLIFFORD PUMP & WELL | | | | 183 | | |
| 13S/03E-04T57 | PRUNEDALE | 4/3/79 | CHAPPELL PUMP & SUPPLY | 8 | 120 | 588 | 600 | DOM | |
| 13S/03E-04T58 | PRUNEDALE | 11/27/57 | C.F. DOUGHERTY | 8 | 124 | 164 | 172 | DOM; | |
| 13S/03E-04T59 | PRUNEDALE | 11/22/78 | CHAPPELL PUMP & SUPPLY | 8 | 169 | 525 | 530 | DOM | |
| 13S/03E-04T60 | PRUNEDALE | 6/6/74 | ASH & SONS | 7 | 276 | 348 | 348 | DOM; | |
| 13S/03E-04T61 | PRUNEDALE | 3/23/77 | MAGGIORA BROS | 5 | 110 | 435 | 450 | DOM; | |
| 13S/03E-04T62 | PRUNEDALE | 9/14/66 | C.F. DOUGHERTY | 8 | 38 | 78 | 84 | DOM; | |
| 13S/03E-04T63 | PRUNEDALE | 9/25/86 | ASH & SONS | 5 | 300 | 340 | 340 | DOM; | |
| 13S/03E-04T64 | PRUNEDALE | 10/12/72 | ASH & SONS | 6 | 374 | 410 | 410 | DOM; | |
| 13S/03E-04T65 | PRUNEDALE | 1/25/80 | ASH & SONS | 6 | 380 | 420 | 420 | DOM; | |
| 13S/03E-04T66 | PRUNEDALE | 3/4/77 | MAGGIORA BROS | | | | 584 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-05D02 | PRUNEDALE | 3/16/78 | SALINAS PUMP CO | 10 | 312 | 576 | 576 | IND; | |
| 13S/03E-05E50 | PRUNEDALE | 8/24/78 | CULLUM SYSTEMS | 16 | 260 | 428 | 444 | IRR; | |
| 13S/03E-05L01 | PRUNEDALE | | | 8 | | | 480 | DOM; | |
| 13S/03E-05L50 | PRUNEDALE | 9/12/76 | ASH & SONS | 11 | 306 | 532 | 538 | IRR; | |
| 13S/03E-05L51 | PRUNEDALE | 3/6/78 | SALINAS PUMP CO | | 368 | 610 | 665 | IRR; | |
| 13S/03E-05N01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-05N50 | PRUNEDALE | 8/2/72 | ASH & SONS | 7 | 200 | 236 | 246 | DOM; | |
| 13S/03E-05N51 | PRUNEDALE | 3/11/87 | ASH & SONS | 5 | 380 | 420 | 462 | DOM; | |
| 13S/03E-05N52 | PRUNEDALE | 11/14/64 | C.F. DOUGHERTY | 8 | 355 | 403 | 411 | DOM; | |
| 13S/03E-05N53 | PRUNEDALE | 12/9/81 | ASH & SONS | 5 | 268 | 308 | 308 | DOM; | |
| 13S/03E-05P01 | PRUNEDALE | 1/30/62 | VALLEY PUMP | 10 | 360 | 500 | 500 | DOM; | |
| 13S/03E-05P02 | PRUNEDALE | 5/14/62 | C.F. DOUGHERTY | 10 | 160 | 376 | 376 | DOM; | |
| 13S/03E-05P50 | PRUNEDALE | 6/15/87 | ASH & SONS | 5 | 360 | 400 | 405 | DOM; | |
| 13S/03E-05P51 | PRUNEDALE | 1/30/62 | SALINAS PUMP CO | 10 | 360 | 500 | 500 | DOM; | |
| 13S/03E-05P52 | PRUNEDALE | 8/15/78 | C.F. DOUGHERTY | 8 | 324 | 364 | 372 | DOM; | |
| 13S/03E-05P53 | PRUNEDALE | 4/5/79 | ROBINETT & SONS | 8 | 140 | 342 | 342 | DOM; | |
| 13S/03E-05Q50 | PRUNEDALE | 3/14/88 | C.F. DOUGHERTY | | | | 335 | | DES |
| 13S/03E-05Q51 | PRUNEDALE | 4/1/88 | ASH & SONS | 5 | 320 | 360 | 363 | DOM; | |
| 13S/03E-05Q52 | PRUNEDALE | 12/21/84 | ASH & SONS | 6 | 340 | 400 | 422 | DOM; | |
| 13S/03E-05R01 | PRUNEDALE | 3/18/73 | ASH & SONS | 66 | 309 | 385 | 385 | DOM; | |
| 13S/03E-05R02 | PRUNEDALE | | | 8 | | | 356 | DOM; | |
| 13S/03E-05R50 | PRUNEDALE | 7/19/51 | C.F. DOUGHERTY | 8 | 195 | 216 | 225 | DOM; | |
| 13S/03E-05R51 | PRUNEDALE | 1/9/87 | ASH & SONS | 5 | 390 | 470 | 480 | DOM; | |
| 13S/03E-05R52 | PRUNEDALE | 12/29/93 | ASH & SONS | 5 | 340 | 440 | 460 | DOM | |
| 13S/03E-05T50 | PRUNEDALE | 12/4/79 | ASH & SONS | 6 | 320 | 360 | 370 | DOM; | |
| 13S/03E-05T51 | PRUNEDALE | 3/20/63 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/03E-05T52 | PRUNEDALE | 6/3/58 | DEATON | 8 | 80 | 120 | 120 | DOM; | |
| 13S/03E-05T53 | PRUNEDALE | 1/7/66 | ASH & SONS | 6 | 308 | 348 | 376 | DOM; | |
| 13S/03E-05T54 | PRUNEDALE | 9/16/76 | ASH & SONS | 6 | 318 | 350 | 350 | DOM; | |
| 13S/03E-05T55 | PRUNEDALE | 12/20/76 | C.F. DOUGHERTY | 8 | 360 | 430 | 445 | DOM; | |
| 13S/03E-05T56 | PRUNEDALE | 3/7/81 | ASH & SONS | 6 | 350 | 390 | 403 | DOM; | |
| 13S/03E-05T57 | PRUNEDALE | 1/29/53 | C.F. DOUGHERTY | 8 | 182 | 222 | 228 | DOM; | |
| 13S/03E-05T58 | PRUNEDALE | 5/30/72 | C.F. DOUGHERTY | 8 | 410 | 470 | 480 | DOM; | |
| 13S/03E-05T59 | PRUNEDALE | 8/4/76 | ASH & SONS | 7 | 228 | 260 | 215 | DOM; | |
| 13S/03E-05T60 | PRUNEDALE | | ROBINETT & SONS | 8 | 42 | 292 | 292 | DOM; | |
| 13S/03E-05T61 | PRUNEDALE | 11/24/54 | NUNES | 12 | 290 | 320 | 330 | DOM; | |
| 13S/03E-05T62 | PRUNEDALE | 3/19/60 | DOUGHERTY PUMP & DRILLING | 10 | 84 | 124 | 132 | DOM; | |
| 13S/03E-05T63 | PRUNEDALE | 8/29/63 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/03E-05T64 | PRUNEDALE | 3/19/81 | ASH & SONS | 5 | 490 | 550 | 560 | DOM; | |
| 13S/03E-05T65 | PRUNEDALE | 1/24/63 | C.F. DOUGHERTY | 8 | 176 | 216 | 224 | DOM; | |
| 13S/03E-05T66 | PRUNEDALE | 7/13/62 | C.F. DOUGHERTY | 8 | 192 | 232 | 240 | DOM; | |
| 13S/03E-05T67 | PRUNEDALE | 5/5/62 | C.F. DOUGHERTY | | | | 475 | | HOLE; |
| 13S/03E-05T68 | PRUNEDALE | 8/3/76 | ASH & SONS | 7 | 129 | 161 | 165 | DOM; | |
| 13S/03E-05T69 | PRUNEDALE | 3/30/78 | SALINAS PUMP CO | 10 | 312 | 576 | 613 | DOM;IRR; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-05T70 | PRUNEDALE | 2/25/75 | ASH & SONS | 7 | 328 | 360 | 380 | DOM; | |
| 13S/03E-05T71 | PRUNEDALE | 5/4/65 | C.F. DOUGHERTY | 8 | 260 | 300 | 308 | DOM; | |
| 13S/03E-05T72 | PRUNEDALE | 2/25/63 | C.F. DOUGHERTY | 10 | 84 | 144 | 152 | DOM; | |
| 13S/03E-05T73 | PRUNEDALE | 8/27/54 | C.F. DOUGHERTY | 8 | 90 | 122 | 130 | DOM; | |
| 13S/03E-05T74 | PRUNEDALE | 5/9/62 | C.F. DOUGHERTY | 8 | 220 | 260 | 268 | DOM; | |
| 13S/03E-05T75 | PRUNEDALE | 8/19/61 | MURPHY | 12 | 183 | 258 | 266 | IND; | |
| 13S/03E-05T76 | PRUNEDALE | 5/15/57 | C.F. DOUGHERTY | 8 | 200 | 240 | 248 | DOM; | |
| 13S/03E-05T77 | PRUNEDALE | 7/24/72 | C.F. DOUGHERTY | 10 | 310 | 390 | 400 | IRR; | |
| 13S/03E-05T78 | PRUNEDALE | 6/21/76 | SALINAS PUMP CO | 12 | 200 | 460 | 497 | DOM;IRR; | |
| 13S/03E-05T79 | PRUNEDALE | 9/16/76 | SALINAS PUMP CO | 12 | 288 | 528 | 544 | DOM;IRR; | |
| 13S/03E-06A50 | PRUNEDALE | 6/11/73 | ASH & SONS | 7 | 332 | 368 | 385 | DOM; | |
| 13S/03E-06C50 | PRUNEDALE | 9/8/89 | ASH & SONS | 5 | 240 | 280 | 285 | DOM; | |
| 13S/03E-06C51 | PRUNEDALE | 11/7/86 | C.F. DOUGHERTY | 6 | 430 | 510 | 510 | DOM; | |
| 13S/03E-06F01 | PRUNEDALE | 6/22/73 | VALLEY PUMP | 8 | 180 | 340 | 400 | DOM; | |
| 13S/03E-06F50 | MONTEREY CO GENERAL | 10/22/90 | C.F. DOUGHERTY | 5 | 220 | 280 | 300 | DOM; | |
| 13S/03E-06G01 | PRUNEDALE | 6/18/55 | C.F. DOUGHERTY | 10 | 290 | 350 | 370 | DOM; | |
| 13S/03E-06K01 | PRUNEDALE | 7/27/79 | DOUGHERTY PUMP & DRILLING | 8 | 336 | 376 | 384 | DOM; | |
| 13S/03E-06K50 | PRUNEDALE | 2/15/50 | C.F. DOUGHERTY | 8 | 300 | 350 | 352 | DOM; | |
| 13S/03E-06K51 | PRUNEDALE | 1/25/65 | VALLEY PUMP | 10 | 360 | 540 | 540 | DOM; | |
| 13S/03E-06K52 | PRUNEDALE | 5/8/82 | MAGGIORA BROS | 6 | 280 | 430 | 625 | DOM; | |
| 13S/03E-06L50 | PRUNEDALE | 11/8/85 | ASH & SONS | 8 | 500 | 610 | 625 | DOM; | |
| 13S/03E-06R01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-06R50 | PRUNEDALE | 5/9/55 | C.F. DOUGHERTY | 8 | 124 | 156 | 161 | DOM; | |
| 13S/03E-06R51 | PRUNEDALE | 5/27/63 | C.F. DOUGHERTY | 8 | 291 | 391 | 408 | DOM; | |
| 13S/03E-06R52 | PRUNEDALE | 12/27/67 | C.F. DOUGHERTY | 8 | 250 | 292 | 300 | DOM; | |
| 13S/03E-06T50 | PRUNEDALE | 7/28/75 | SALINAS PUMP CO | 8 | 340 | 400 | 500 | DOM; | |
| 13S/03E-06T51 | PRUNEDALE | 5/14/67 | ASH & SONS | 6 | 328 | 368 | 415 | DOM; | |
| 13S/03E-06T52 | PRUNEDALE | 4/24/80 | CLIFFORD PUMP & WELL | 5 | 375 | 430 | 450 | DOM | |
| 13S/03E-06T53 | PRUNEDALE | 11/12/62 | C.F. DOUGHERTY | 8 | 1 | 136 | 136 | DOM; | |
| 13S/03E-06T54 | PRUNEDALE | 5/23/52 | C.F. DOUGHERTY | 10 | 357 | 402 | 405 | DOM; | |
| 13S/03E-06T55 | PRUNEDALE | 11/6/59 | C.F. DOUGHERTY | 8 | 156 | 236 | 248 | DOM; | |
| 13S/03E-06T56 | PRUNEDALE | 3/5/65 | C.F. DOUGHERTY | 8 | 268 | 312 | 316 | DOM; | |
| 13S/03E-06T57 | PRUNEDALE | 11/1/79 | ASH & SONS | 7 | 360 | 392 | 409 | DOM; | |
| 13S/03E-06T58 | PRUNEDALE | 2/27/92 | ASH & SONS | 6 | | | 490 | DOM; | |
| 13S/03E-07A01 | PRUNEDALE | 7/1/51 | C.F. DOUGHERTY | 8 | 258 | 279 | 288 | DOM; | |
| 13S/03E-07A02 | PRUNEDALE | | | 8 | | | 240 | DOM; | |
| 13S/03E-07A03 | PRUNEDALE | 5/28/73 | L E MELVILLE | 10 | 296 | 340 | 348 | DOM; | |
| 13S/03E-07A50 | PRUNEDALE | 7/23/82 | C.F. DOUGHERTY | 10 | 422 | 502 | 510 | DOM; | |
| 13S/03E-07A51 | PRUNEDALE | 6/2/83 | ASH & SONS | 12 | | | 292 | DOM; | |
| 13S/03E-07A52 | PRUNEDALE | 5/28/71 | ASH & SONS | 6 | 304 | 340 | 352 | DOM; | |
| 13S/03E-07A53 | PRUNEDALE | 7/24/91 | DOUGHERTY PUMP & DRILLING | 5 | 420 | 560 | 560 | DOM | |
| 13S/03E-07A54 | PRUNEDALE | 3/8/91 | ASH & SONS | 5 | 400 | 440 | 440 | DOM | |
| 13S/03E-07B01 | PRUNEDALE | | | 8 | 405 | 445 | 445 | DOM; | |
| 13S/03E-07D50 | PRUNEDALE | 1/28/87 | ASH & SONS | 5 | 440 | 500 | 520 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-07E50 | PRUNEDALE | 7/3/85 | ASH & SONS | 5 | 440 | 480 | 485 | DOM; | |
| 13S/03E-07E51 | PRUNEDALE | 3/11/88 | ASH & SONS | 5 | 320 | 360 | 370 | DOM; | |
| 13S/03E-07E52 | PRUNEDALE | 4/18/89 | ASH & SONS | 5 | 390 | 430 | 440 | DOM; | |
| 13S/03E-07E53 | PRUNEDALE | 6/9/89 | ASH & SONS | 5 | 380 | 420 | 425 | DOM; | |
| 13S/03E-07E54 | PRUNEDALE | 8/8/86 | ASH & SONS | 5 | 440 | 480 | 490 | DOM; | |
| 13S/03E-07E55 | PRUNEDALE | 8/27/92 | ASH & SONS | 6 | 374 | 414 | 414 | DOM | |
| 13S/03E-07F01 | PRUNEDALE | 12/4/65 | ASH & SONS | 8 | 405 | 455 | 485 | DOM; | |
| 13S/03E-07F02 | PRUNEDALE | | | 8 | | | 475 | DOM; | |
| 13S/03E-07H50 | PRUNEDALE | 10/17/65 | C.F. DOUGHERTY | 8 | 302 | 362 | 370 | DOM; | |
| 13S/03E-07J50 | PRUNEDALE | 4/5/79 | C.F. DOUGHERTY | 8 | 244 | 284 | 292 | DOM; | |
| 13S/03E-07J51 | PRUNEDALE | | ASH & SONS | 6 | 250 | 278 | | | DESTROYED |
| 13S/03E-07J52 | PRUNEDALE | 4/19/91 | ASH & SONS | 5 | 337 | 377 | 377 | DOM | |
| 13S/03E-07T50 | PRUNEDALE | 10/24/60 | VALLEY PUMP | 8 | 183 | 300 | 300 | DOM; | |
| 13S/03E-07T51 | PRUNEDALE | 3/8/74 | ASH & SONS | | | | 420 | | DES |
| 13S/03E-07T52 | PRUNEDALE | 2/17/71 | C.F. DOUGHERTY | 8 | 272 | 312 | 320 | DOM; | |
| 13S/03E-07T53 | PRUNEDALE | 8/20/60 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 13S/03E-07T54 | PRUNEDALE | 9/22/66 | C.F. DOUGHERTY | 10 | 84 | 124 | 132 | DOM; | |
| 13S/03E-07T55 | PRUNEDALE | 11/3/52 | C.F. DOUGHERTY | 10 | 78 | 108 | 117 | DOM; | |
| 13S/03E-07T56 | PRUNEDALE | 12/2/52 | C.F. DOUGHERTY | 8 | 405 | 445 | 449 | DOM; | |
| 13S/03E-07T57 | PRUNEDALE | 7/22/67 | C.F. DOUGHERTY | 8 | 252 | 312 | 320 | DOM; | |
| 13S/03E-07T58 | PRUNEDALE | 6/10/55 | C.F. DOUGHERTY | 8 | 169 | 201 | 205 | DOM; | |
| 13S/03E-07T59 | PRUNEDALE | 2/23/56 | C.F. DOUGHERTY | 8 | 184 | 224 | 249 | DOM; | |
| 13S/03E-07T60 | PRUNEDALE | 10/21/53 | C.F. DOUGHERTY | 8 | 74 | 106 | 114 | DOM; | |
| 13S/03E-07T61 | PRUNEDALE | 2/28/56 | C.F. DOUGHERTY | 8 | 60 | 92 | 104 | DOM; | |
| 13S/03E-07T62 | PRUNEDALE | 8/5/75 | ASH & SONS | 7 | 323 | 355 | 370 | DOM; | |
| 13S/03E-07T63 | PRUNEDALE | 10/2/64 | C.F. DOUGHERTY | 10 | 280 | 335 | 343 | DOM; | |
| 13S/03E-07T64 | PRUNEDALE | 11/6/78 | CULLUM SYSTEMS | 9 | 140 | 230 | 250 | DOM; | |
| 13S/03E-07T65 | PRUNEDALE | 12/18/76 | ASH & SONS | 7 | 440 | 472 | 480 | DOM; | |
| 13S/03E-07T66 | PRUNEDALE | 12/9/60 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 13S/03E-07T67 | PRUNEDALE | 6/11/69 | C.F. DOUGHERTY | 8 | 224 | 264 | 272 | DOM; | |
| 13S/03E-07T68 | PRUNEDALE | 11/22/60 | C.F. DOUGHERTY | 8 | 138 | 178 | 186 | DOM; | |
| 13S/03E-07T69 | PRUNEDALE | 4/29/61 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/03E-07T70 | PRUNEDALE | 11/15/78 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 13S/03E-07T71 | PRUNEDALE | 11/12/82 | ASH & SONS | 5 | 330 | 390 | 402 | DOM; | |
| 13S/03E-07T72 | PRUNEDALE | 8/30/69 | C.F. DOUGHERTY | 8 | 217 | 257 | 265 | DOM; | |
| 13S/03E-07T73 | PRUNEDALE | 2/20/76 | ASH & SONS | 7 | | | 385 | DOM; | |
| 13S/03E-07T74 | PRUNEDALE | 9/13/60 | C.F. DOUGHERTY | 10 | 428 | 480 | 488 | DOM; | |
| 13S/03E-07T75 | PRUNEDALE | 6/5/53 | C.F. DOUGHERTY | 8 | 96 | 126 | 135 | DOM; | |
| 13S/03E-07T76 | PRUNEDALE | 3/6/74 | ASH & SONS | 7 | 340 | 368 | 387 | DOM; | |
| 13S/03E-07T77 | PRUNEDALE | 6/8/60 | C.F. DOUGHERTY | 10 | 300 | 353 | 360 | DOM; | |
| 13S/03E-07T78 | PRUNEDALE | 1/10/73 | ROBINETT & SONS | 8 | 161 | 201 | 202 | DOM; | |
| 13S/03E-07T79 | PRUNEDALE | 6/18/55 | C.F. DOUGHERTY | 10 | 290 | 350 | 359 | DOM; | |
| 13S/03E-07T80 | PRUNEDALE | 7/9/53 | C.F. DOUGHERTY | 8 | 63 | 93 | 102 | DOM; | |
| 13S/03E-07T81 | PRUNEDALE | 8/21/80 | ASH & SONS | 6 | 360 | 410 | 414 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-07T82 | PRUNEDALE | 12/4/65 | ASH & SONS | 8 | 405 | 455 | 485 | | |
| 13S/03E-07T83 | PRUNEDALE | 10/12/76 | ASH & SONS | 7 | 328 | 370 | 380 | DOM; | |
| 13S/03E-07T84 | PRUNEDALE | 5/13/77 | CLIFFORD PUMP & WELL | 6 | 195 | 213 | 231 | DOM | |
| 13S/03E-07T85 | PRUNEDALE | 9/22/78 | ASH & SONS | 7 | 440 | 472 | 487 | DOM; | |
| 13S/03E-07T86 | PRUNEDALE | 1/19/94 | ASH & SONS | 5 | 414 | 454 | 454 | DOM | |
| 13S/03E-08A50 | PRUNEDALE | 5/1/75 | ROBINETT & SONS | 8 | 200 | 400 | 400 | DOM; | |
| 13S/03E-08B01 | PRUNEDALE | 3/4/49 | C.F. DOUGHERTY | 8 | 186 | 207 | 216 | DOM; | |
| 13S/03E-08C01 | PRUNEDALE | 1/19/78 | ASH & SONS | 7 | 390 | 458 | 458 | DOM; | |
| 13S/03E-08C50 | PRUNEDALE | 3/12/81 | ASH & SONS | 6 | 210 | 250 | 257 | DOM; | |
| 13S/03E-08C51 | PRUNEDALE | 5/11/89 | ASH & SONS | 5 | 380 | 420 | 440 | DOM; | |
| 13S/03E-08C52 | PRUNEDALE | 3/4/81 | ASH & SONS | 6 | 360 | 400 | 420 | DOM; | |
| 13S/03E-08D01 | PRUNEDALE | 8/27/54 | C.F. DOUGHERTY | 8 | 90 | 122 | 130 | DOM; | |
| 13S/03E-08D02 | PRUNEDALE | 8/1/77 | CLIFFORD PUMP & WELL | 8 | 215 | 245 | 266 | DOM; | |
| 13S/03E-08D03 | PRUNEDALE | | | | | | 105 | DOM; | |
| 13S/03E-08D04 | PRUNEDALE | | | 8 | | | 240 | DOM; | |
| 13S/03E-08D50 | PRUNEDALE | 8/19/77 | CLIFFORD PUMP & WELL | 8 | 215 | 245 | 266 | DOM | |
| 13S/03E-08D51 | PRUNEDALE | 11/1/66 | MELS DRILLING | 8 | 240 | 280 | 280 | DOM; | |
| 13S/03E-08E01 | PRUNEDALE | | | 10 | | | 210 | DOM; | |
| 13S/03E-08E50 | PRUNEDALE | 5/12/87 | C.F. DOUGHERTY | 8 | 320 | 420 | 425 | DOM; | |
| 13S/03E-08F50 | PRUNEDALE | 9/7/79 | C.F. DOUGHERTY | 8 | 228 | 288 | 296 | DOM; | |
| 13S/03E-08F51 | PRUNEDALE | 9/12/69 | C.F. DOUGHERTY | 8 | 380 | 420 | 428 | DOM; | |
| 13S/03E-08G01 | PRUNEDALE | 3/22/49 | C.F. DOUGHERTY | 8 | 90 | 111 | 120 | DOM; | |
| 13S/03E-08G02 | PRUNEDALE | 3/4/60 | C.F. DOUGHERTY | 8 | 192 | 234 | 238 | DOM; | |
| 13S/03E-08G03 | PRUNEDALE | 5/24/85 | ASH & SONS | 6 | 500 | 620 | 620 | DOM; | |
| 13S/03E-08G50 | PRUNEDALE | 5/22/86 | ASH & SONS | 5 | 390 | 470 | 480 | DOM; | |
| 13S/03E-08G51 | PRUNEDALE | 4/27/81 | ASH & SONS | 5 | 372 | 440 | 440 | DOM; | |
| 13S/03E-08G52 | PRUNEDALE | 6/13/80 | ASH & SONS | 7 | 240 | 560 | 575 | DOM; | |
| 13S/03E-08G53 | PRUNEDALE | 9/25/80 | ASH & SONS | 5 | 275 | 315 | 320 | DOM; | |
| 13S/03E-08G54 | PRUNEDALE | 10/24/67 | C.F. DOUGHERTY | 8 | 76 | 116 | 124 | DOM; | |
| 13S/03E-08H01 | PRUNEDALE | | | 8 | 180 | 0 | 202 | DOM; | |
| 13S/03E-08H02 | PRUNEDALE | 4/29/78 | ROBINETT | | 185 | 385 | 385 | DOM; | |
| 13S/03E-08H03 | PRUNEDALE | | | 8 | | | 453 | DOM; | |
| 13S/03E-08H50 | PRUNEDALE | 7/20/85 | ALSOP & SON | 6 | 483 | 560 | 565 | DOM; | |
| 13S/03E-08J50 | PRUNEDALE | 4/1/87 | ASH & SONS | 5 | 420 | 460 | 460 | DOM; | |
| 13S/03E-08J51 | PRUNEDALE | 11/19/86 | ASH & SONS | 5 | 410 | 450 | 460 | DOM; | |
| 13S/03E-08K01 | PRUNEDALE | | | 8 | | | 350 | DOM; | |
| 13S/03E-08K02 | PRUNEDALE | | | 8 | | | 159 | DOM; | |
| 13S/03E-08K03 | PRUNEDALE | 7/25/84 | ASH & SONS | 5 | 240 | 300 | 305 | DOM; | |
| 13S/03E-08K50 | PRUNEDALE | 1/8/88 | ASH & SONS | 5 | 415 | 475 | 449 | DOM; | |
| 13S/03E-08K51 | PRUNEDALE | 1/22/88 | ASH & SONS | 5 | 350 | 390 | 400 | DOM; | |
| 13S/03E-08K52 | PRUNEDALE | 9/11/67 | C.F. DOUGHERTY | 8 | 364 | 360 | 420 | DOM; | |
| 13S/03E-08L50 | PRUNEDALE | 7/1/81 | ASH & SONS | 5 | 215 | 255 | 260 | DOM; | |
| 13S/03E-08M01 | PRUNEDALE | 9/12/80 | ASH & SONS | 6 | 394 | 444 | 450 | DOM; | |
| 13S/03E-08M02 | PRUNEDALE | | | 8 | | | 247 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-08M50 | PRUNEDALE | 1/9/78 | ASH & SONS | 7 | 283 | 325 | 325 | DOM; | |
| 13S/03E-08M51 | PRUNEDALE | 5/9/86 | ASH & SONS | 6 | 395 | 455 | 460 | DOM; | |
| 13S/03E-08M52 | PRUNEDALE | 4/23/86 | ASH & SONS | 6 | 400 | 440 | 460 | DOM; | |
| 13S/03E-08N01 | PRUNEDALE | | | 7 | | | 240 | DOM; | |
| 13S/03E-08N02 | PRUNEDALE | 10/18/79 | ASH & SONS | 7 | 280 | 320 | 320 | DOM; | |
| 13S/03E-08N50 | PRUNEDALE | 11/28/83 | C.F. DOUGHERTY | 8 | 156 | 196 | 204 | DOM; | |
| 13S/03E-08N51 | PRUNEDALE | 6/9/90 | ASH & SONS | 5 | 310 | 350 | 351 | DOM; | |
| 13S/03E-08P50 | PRUNEDALE | 3/15/89 | ASH & SONS | 5 | 400 | 460 | 465 | IRR; | |
| 13S/03E-08Q01 | PRUNEDALE | 3/26/49 | C.F. DOUGHERTY | 8 | 66 | 87 | 96 | DOM; | |
| 13S/03E-08Q02 | PRUNEDALE | 10/2/54 | C.F. DOUGHERTY | 8 | 105 | 144 | 165 | DOM; | |
| 13S/03E-08R01 | PRUNEDALE | 8/10/61 | C.F. DOUGHERTY | 10 | 140 | 387 | 391 | DOM; | |
| 13S/03E-08R50 | PRUNEDALE | 10/16/90 | ASH & SONS | 5 | 440 | 480 | 495 | DOM; | |
| 13S/03E-08R51 | PRUNEDALE | 2/23/63 | C.F. DOUGHERTY | 8 | 262 | 367 | 371 | DOM; | |
| 13S/03E-08R52 | PRUNEDALE | 7/26/91 | MAGGIORA BROS | | | | 391 | | DES |
| 13S/03E-08T50 | PRUNEDALE | 10/20/60 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 13S/03E-08T51 | PRUNEDALE | 6/10/80 | ASH & SONS | 5 | 255 | 295 | 305 | DOM; | |
| 13S/03E-08T52 | PRUNEDALE | 6/21/52 | C.F. DOUGHERTY | 8 | 30 | 60 | 69 | DOM; | |
| 13S/03E-08T53 | PRUNEDALE | 6/13/80 | ASH & SONS | 7 | 240 | 560 | 575 | DOM; | |
| 13S/03E-08T54 | PRUNEDALE | 4/19/85 | ASH & SONS | 5 | 300 | 340 | 345 | DOM; | |
| 13S/03E-08T55 | PRUNEDALE | 2/28/74 | SALINAS PUMP CO | 8 | 152 | 312 | 325 | DOM; | |
| 13S/03E-08T56 | PRUNEDALE | | ROBINETT & SONS | 8 | 110 | 240 | 240 | DOM; | |
| 13S/03E-08T57 | PRUNEDALE | 8/13/76 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 13S/03E-08T58 | PRUNEDALE | 6/15/63 | C.F. DOUGHERTY | 8 | 345 | 445 | 453 | DOM; | |
| 13S/03E-08T59 | PRUNEDALE | 6/14/52 | C.F. DOUGHERTY | 8 | 30 | 60 | 69 | DOM; | |
| 13S/03E-08T60 | PRUNEDALE | 7/8/61 | C.F. DOUGHERTY | 8 | 96 | 136 | 144 | DOM; | |
| 13S/03E-08T61 | PRUNEDALE | 10/29/76 | FREEDOM GEN REPAIR & PUMP | 8 | 88 | 120 | 272 | DOM; | |
| 13S/03E-08T62 | PRUNEDALE | 7/1/74 | SALINAS PUMP CO | 7 | 188 | 368 | 390 | DEEPENING | |
| 13S/03E-08T63 | PRUNEDALE | 11/11/80 | ASH & SONS | 5 | 372 | 412 | 414 | DOM; | |
| 13S/03E-08T64 | PRUNEDALE | 12/20/63 | C.F. DOUGHERTY | 8 | | | 168 | DOM; | |
| 13S/03E-08T65 | PRUNEDALE | 2/17/60 | C.F. DOUGHERTY | 8 | 200 | 286 | 300 | DOM; | |
| 13S/03E-08T66 | PRUNEDALE | 11/1/76 | C.F. DOUGHERTY | 8 | 312 | 416 | 420 | DOM; | |
| 13S/03E-08T67 | PRUNEDALE | 4/20/77 | ASH & SONS | 7 | 228 | 430 | 480 | DOM; | |
| 13S/03E-08T68 | PRUNEDALE | 6/24/55 | C.F. DOUGHERTY | 8 | 120 | 160 | 172 | DOM; | |
| 13S/03E-08T69 | PRUNEDALE | 8/20/54 | C.F. DOUGHERTY | 8 | 60 | 92 | 100 | DOM; | |
| 13S/03E-08T70 | PRUNEDALE | 9/9/74 | C.F. DOUGHERTY | 8 | 180 | 220 | 228 | DOM; | |
| 13S/03E-08T71 | PRUNEDALE | 6/29/59 | C.F. DOUGHERTY | 8 | | | 144 | DOM; | |
| 13S/03E-08T72 | PRUNEDALE | 3/27/52 | C.F. DOUGHERTY | 8 | 93 | 132 | 135 | DOM; | |
| 13S/03E-08T73 | PRUNEDALE | 4/4/52 | C.F. DOUGHERTY | 8 | 127 | 157 | 168 | DOM; | |
| 13S/03E-08T74 | PRUNEDALE | 5/20/66 | C.F. DOUGHERTY | 8 | 240 | 360 | 368 | DOM; | |
| 13S/03E-08T75 | PRUNEDALE | 7/24/59 | C.F. DOUGHERTY | 8 | 130 | 176 | 180 | DOM; | |
| 13S/03E-08T76 | PRUNEDALE | 6/4/73 | ASH & SONS | 7 | 344 | 380 | 400 | DOM; | |
| 13S/03E-08T77 | PRUNEDALE | 7/2/71 | ASH & SONS | 6 | 310 | 340 | 348 | DOM; | |
| 13S/03E-08T78 | PRUNEDALE | 10/30/80 | ASH & SONS | 6 | 400 | 446 | 460 | DOM; | |
| 13S/03E-08T79 | PRUNEDALE | 2/18/63 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-09A01 | PRUNEDALE | 2/27/78 | MAGGIORA BROS | 5 | 300 | 595 | 600 | DOM; | |
| 13S/03E-09B01 | PRUNEDALE | | | 8 | | | 505 | DOM; | |
| 13S/03E-09B02 | PRUNEDALE | 4/10/79 | MAGGIORA BROS | 5 | 135 | 395 | 395 | DOM; | |
| 13S/03E-09B50 | PRUNEDALE | 8/9/85 | ASH & SONS | 8 | 200 | 350 | 460 | DOM; | |
| 13S/03E-09B51 | PRUNEDALE | 4/3/87 | ASH & SONS | 5 | 220 | 260 | 265 | DOM; | |
| 13S/03E-09B52 | PRUNEDALE | 12/30/85 | ASH & SONS | 5 | 260 | 340 | 360 | DOM; | |
| 13S/03E-09B53 | PRUNEDALE | 1/10/86 | ASH & SONS | 5 | 120 | 390 | 395 | DOM; | |
| 13S/03E-09B54 | PRUNEDALE | 3/20/69 | FREEDOM GEN REPAIR & PUMP | 8 | 102 | 134 | 134 | DOM; | |
| 13S/03E-09B55 | PRUNEDALE | 8/2/77 | ASH & SONS | 7 | 301 | 407 | 407 | DOM; | |
| 13S/03E-09C01 | PRUNEDALE | 5/24/74 | ASH & SONS | 7 | 332 | 360 | 360 | DOM; | |
| 13S/03E-09C50 | PRUNEDALE | 2/7/90 | ASH & SONS | 5 | 397 | 457 | 460 | DOM; | |
| 13S/03E-09C51 | PRUNEDALE | 3/13/90 | ASH & SONS | 5 | 410 | 590 | 595 | DOM; | |
| 13S/03E-09C52 | PRUNEDALE | 6/12/76 | ROBINETT & SONS | 8 | 114 | 214 | 214 | DOM; | |
| 13S/03E-09C53 | PRUNEDALE | 9/9/83 | C.F. DOUGHERTY | 8 | 300 | 636 | 636 | DOM; | |
| 13S/03E-09D50 | PRUNEDALE | 8/30/78 | ASH & SONS | 7 | 294 | 550 | 550 | DOM; | |
| 13S/03E-09D51 | PRUNEDALE | 10/29/93 | ASH & SONS | 5 | 380 | 440 | 440 | DOM | |
| 13S/03E-09E50 | PRUNEDALE | 12/5/78 | SALINAS PUMP CO | 6 | 200 | 380 | 390 | DOM; | |
| 13S/03E-09E51 | PRUNEDALE | 2/6/78 | ASH & SONS | 7 | 431 | 631 | 631 | DOM; | |
| 13S/03E-09F50 | PRUNEDALE | 5/26/51 | C.F. DOUGHERTY | 7 | 189 | 210 | 220 | DOM; | |
| 13S/03E-09F51 | PRUNEDALE | 12/24/70 | C.F. DOUGHERTY | 8 | 420 | 464 | 480 | DOM; | |
| 13S/03E-09F52 | PRUNEDALE | 4/4/73 | MAGGIORA BROS | 6 | | | 505 | DOM; | |
| 13S/03E-09F53 | PRUNEDALE | 9/8/86 | ASH & SONS | 5 | 220 | 260 | 263 | DOM; | |
| 13S/03E-09G50 | PRUNEDALE | 9/25/90 | ASH & SONS | 5 | 376 | 476 | 520 | DOM; | |
| 13S/03E-09G51 | PRUNEDALE | 11/4/70 | C.F. DOUGHERTY | 8 | 164 | 204 | 216 | DOM | |
| 13S/03E-09G52 | PRUNEDALE | 1/19/90 | ASH & SONS | 5 | 414 | 454 | 460 | DOM; | |
| 13S/03E-09G53 | PRUNEDALE | 10/2/87 | ASH & SONS | 5 | 218 | 398 | 400 | DOM; | |
| 13S/03E-09G54 | PRUNEDALE | 12/15/79 | MAGGIORA BROS | 5 | 123 | 377 | 380 | DOM; | |
| 13S/03E-09H01 | PRUNEDALE | 7/18/79 | ASH & SONS | 66 | 320 | 352 | 352 | DOM; | |
| 13S/03E-09H02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-09H50 | PRUNEDALE | 1/6/79 | CULLUM SYSTEMS | 8 | 110 | 203 | 205 | DOM; | |
| 13S/03E-09H51 | PRUNEDALE | 12/28/78 | CULLUM SYSTEMS | 8 | 70 | 140 | 140 | DOM; | |
| 13S/03E-09H52 | PRUNEDALE | 11/24/65 | C.F. DOUGHERTY | 10 | 40 | 72 | 80 | DOM; | DES |
| 13S/03E-09J01 | PRUNEDALE | 3/1/62 | C.F. DOUGHERTY | 10 | 48 | 68 | 80 | DOM; | DES |
| 13S/03E-09J02 | PRUNEDALE | | | 8 | | | 150 | DOM; | |
| 13S/03E-09J03 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-09J50 | PRUNEDALE | 2/10/89 | ASH & SONS | 5 | 360 | 400 | 400 | DOM; | |
| 13S/03E-09J51 | PRUNEDALE | 3/21/90 | ASH & SONS | 5 | 300 | 340 | 342 | DOM; | |
| 13S/03E-09J52 | PRUNEDALE | 2/24/62 | C.F. DOUGHERTY | 8 | 48 | 240 | 246 | DOM; | |
| 13S/03E-09J53 | PRUNEDALE | 11/9/89 | ASH & SONS | 5 | 320 | 380 | 384 | DOM; | |
| 13S/03E-09J55 | PRUNEDALE | 12/9/89 | ASH & SONS | 5 | 145 | 185 | 186 | DOM; | |
| 13S/03E-09K01 | PRUNEDALE | 2/12/49 | C.F. DOUGHERTY | 8 | 57 | 87 | 96 | DOM; | |
| 13S/03E-09L01 | PRUNEDALE | 4/21/58 | C.F. DOUGHERTY | 8 | 228 | 268 | 276 | IRR; | |
| 13S/03E-09L50 | PRUNEDALE | 6/18/85 | ASH & SONS | 5 | 452 | 572 | 580 | DOM; | |
| 13S/03E-09L51 | PRUNEDALE | 4/15/81 | ASH & SONS | 5 | 360 | 400 | 410 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-09L52 | PRUNEDALE | 9/7/68 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-09N50 | PRUNEDALE | 5/4/51 | C.F. DOUGHERTY | 8 | 66 | 87 | 96 | DOM; | |
| 13S/03E-09N51 | PRUNEDALE | 3/13/87 | C.F. DOUGHERTY | 6 | 285 | 365 | 371 | DOM; | |
| 13S/03E-09P01 | PRUNEDALE | 7/26/79 | MAGGIORA BROS | 6 | 160 | 480 | 480 | DOM; | |
| 13S/03E-09P02 | PRUNEDALE | | | 8 | | | 327 | DOM; | |
| 13S/03E-09P50 | PRUNEDALE | 7/29/87 | ASH & SONS | 5 | 380 | 460 | 460 | DOM; | |
| 13S/03E-09P51 | PRUNEDALE | 5/7/81 | ASH & SONS | 6 | 122 | 152 | 158 | DOM; | |
| 13S/03E-09Q01 | PRUNEDALE | 4/28/75 | MAGGIORA BROS | 9 | | | 480 | DOM; | |
| 13S/03E-09Q02 | PRUNEDALE | 5/4/77 | ASH & SONS | 7 | 334 | 366 | 366 | DOM; | |
| 13S/03E-09Q03 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-09Q50 | PRUNEDALE | 9/7/61 | C.F. DOUGHERTY | 8 | 65 | 336 | 358 | DOM; | |
| 13S/03E-09Q51 | PRUNEDALE | 5/6/88 | ASH & SONS | 5 | 280 | 320 | 322 | DOM; | |
| 13S/03E-09Q52 | PRUNEDALE | 8/25/87 | ASH & SONS | 5 | 300 | 360 | 363 | DOM; | |
| 13S/03E-09Q53 | PRUNEDALE | 6/16/50 | C.F. DOUGHERTY | 8 | 96 | 117 | 126 | DOM; | |
| 13S/03E-09Q54 | PRUNEDALE | 2/1/80 | FREEDOM GEN REPAIR & PUMP | 6 | 186 | 206 | 206 | DOM; | |
| 13S/03E-09Q55 | PRUNEDALE | 10/6/67 | C.F. DOUGHERTY | 10 | 60 | 290 | 290 | DOM; | |
| 13S/03E-09Q56 | PRUNEDALE | 9/15/51 | C.F. DOUGHERTY | 8 | 90 | 111 | 120 | DOM; | |
| 13S/03E-09R01 | PRUNEDALE | 2/12/49 | C.F. DOUGHERTY | 8 | 57 | 87 | 280 | DOM; | |
| 13S/03E-09R50 | PRUNEDALE | 4/22/71 | C.F. DOUGHERTY | 8 | 76 | 116 | 124 | DOM; | |
| 13S/03E-09R51 | PRUNEDALE | 10/20/87 | C.F. DOUGHERTY | 6 | 50 | 90 | 90 | DOM; | |
| 13S/03E-09R52 | PRUNEDALE | 3/13/75 | MAGGIORA BROS | | | | 415 | DOM; | |
| 13S/03E-09R53 | PRUNEDALE | 12/17/85 | C.F. DOUGHERTY | 6 | 40 | 100 | 115 | DOM; | |
| 13S/03E-09T50 | PRUNEDALE | 3/22/63 | VALLEY PUMP | 8 | 60 | 120 | 129 | DOM; | |
| 13S/03E-09T51 | PRUNEDALE | 11/6/74 | C.F. DOUGHERTY | 8 | 24 | 64 | 72 | DOM; | |
| 13S/03E-09T52 | PRUNEDALE | 10/29/71 | ASH & SONS | 6 | 114 | 150 | 160 | DOM; | |
| 13S/03E-09T53 | PRUNEDALE | 12/3/60 | C & N PUMP & WELL CO | | | | 172 | TEST WELL | |
| 13S/03E-09T54 | PRUNEDALE | 1/27/74 | ASH & SONS | 7 | 232 | 424 | 424 | DOM; | |
| 13S/03E-09T55 | PRUNEDALE | 4/25/79 | CULLUM SYSTEMS | 9 | 70 | 200 | 225 | IRR; | |
| 13S/03E-09T56 | PRUNEDALE | 3/18/77 | MAGGIORA BROS | | | | 385 | TEST WELL | |
| 13S/03E-09T57 | PRUNEDALE | 9/26/58 | C.F. DOUGHERTY | 10 | 52 | 92 | 100 | DOM; | |
| 13S/03E-09T58 | PRUNEDALE | 6/15/62 | C.F. DOUGHERTY | 8 | 96 | 136 | 144 | DOM; | |
| 13S/03E-09T59 | PRUNEDALE | 6/29/60 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 13S/03E-09T60 | PRUNEDALE | 7/13/65 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/03E-09T61 | PRUNEDALE | 1/14/65 | C.F. DOUGHERTY | 9 | | | 230 | DOM; | |
| 13S/03E-09T62 | PRUNEDALE | 11/26/76 | C.F. DOUGHERTY | 8 | 288 | 348 | 375 | DOM; | |
| 13S/03E-09T63 | PRUNEDALE | 4/14/66 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/03E-09T64 | PRUNEDALE | 3/23/60 | VALLEY PUMP | 8 | 180 | 300 | 300 | DOM; | |
| 13S/03E-09T65 | PRUNEDALE | 6/3/81 | ASH & SONS | 5 | 120 | 140 | 165 | DOM; | |
| 13S/03E-09T66 | PRUNEDALE | 10/13/75 | ASH & SONS | 7 | 271 | 303 | 303 | DOM; | |
| 13S/03E-09T67 | PRUNEDALE | 6/26/81 | ASH & SONS | 5 | 140 | 210 | 220 | DOM; | |
| 13S/03E-09T68 | PRUNEDALE | 6/25/71 | ASH & SONS | 6 | 180 | 236 | 250 | DOM; | |
| 13S/03E-09T69 | PRUNEDALE | 10/25/51 | C.F. DOUGHERTY | 8 | 180 | 240 | 240 | DOM; | |
| 13S/03E-09T70 | PRUNEDALE | 1/5/62 | C.F. DOUGHERTY | 8 | 80 | 120 | 128 | DOM; | |
| 13S/03E-09T71 | PRUNEDALE | 2/22/71 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-09T72 | PRUNEDALE | 8/21/70 | C.F. DOUGHERTY | 8 | 224 | 324 | 328 | DOM; | |
| 13S/03E-09T73 | PRUNEDALE | 8/3/54 | DEATON | 8 | 24 | 44 | 44 | DOM; | |
| 13S/03E-09T74 | PRUNEDALE | 11/27/78 | CULLUM SYSTEMS | 6 | 65 | 125 | 130 | DOM; | |
| 13S/03E-09T75 | PRUNEDALE | 5/17/76 | ASH & SONS | 9 | 349 | 389 | 389 | DOM; | |
| 13S/03E-09T76 | PRUNEDALE | 6/30/81 | ASH & SONS | 5 | 293 | 393 | 400 | DOM; | |
| 13S/03E-09T77 | PRUNEDALE | 9/2/53 | C.F. DOUGHERTY | 10 | 168 | 208 | 212 | DOM; | |
| 13S/03E-09T78 | PRUNEDALE | 5/8/75 | C.F. DOUGHERTY | 8 | 336 | 376 | 390 | DOM; | |
| 13S/03E-09T79 | PRUNEDALE | 4/22/53 | C.F. DOUGHERTY | 8 | 111 | 141 | 150 | DOM; | |
| 13S/03E-09T80 | PRUNEDALE | 9/27/53 | C.F. DOUGHERTY | 10 | 68 | 120 | 128 | DOM; | |
| 13S/03E-09T81 | PRUNEDALE | 6/2/81 | C.F. DOUGHERTY | 8 | 18 | 58 | 70 | DOM; | |
| 13S/03E-09T82 | PRUNEDALE | 10/11/71 | CLIFFORD PUMP & WELL | 8 | 110 | 150 | 150 | DOM | |
| 13S/03E-09T83 | PRUNEDALE | 9/3/71 | C.F. DOUGHERTY | 8 | 116 | 156 | 164 | DOM; | |
| 13S/03E-09T84 | PRUNEDALE | 1/31/62 | C.F. DOUGHERTY | 8 | 80 | 120 | 181 | DOM; | |
| 13S/03E-09T85 | PRUNEDALE | 2/8/63 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-09T86 | PRUNEDALE | 4/14/78 | C.F. DOUGHERTY | 8 | 195 | 292 | 320 | DOM; | |
| 13S/03E-09T87 | PRUNEDALE | 5/11/70 | C.F. DOUGHERTY | 8 | 288 | 328 | 336 | DOM; | |
| 13S/03E-09T88 | PRUNEDALE | 11/22/70 | FREEDOM GEN REPAIR & PUMP | 8 | 153 | 173 | 185 | DOM; | |
| 13S/03E-09T89 | PRUNEDALE | 8/2/66 | C.F. DOUGHERTY | 8 | 224 | 264 | 290 | DOM; | |
| 13S/03E-09T90 | PRUNEDALE | 8/2/78 | MAGGIORA BROS | 6 | 90 | 280 | 300 | DOM; | |
| 13S/03E-09T91 | PRUNEDALE | 10/29/71 | ASH & SONS | 6 | 280 | 316 | 328 | DOM; | |
| 13S/03E-09T92 | PRUNEDALE | 11/16/79 | C.F. DOUGHERTY | | | | 390 | DOM; | |
| 13S/03E-09T93 | PRUNEDALE | 7/10/76 | ASH & SONS | 7 | 368 | 400 | 400 | DOM; | |
| 13S/03E-09T94 | PRUNEDALE | 9/19/61 | C.F. DOUGHERTY | 8 | | | 80 | DOM; | |
| 13S/03E-09T95 | PRUNEDALE | 9/9/59 | C.F. DOUGHERTY | 8 | 20 | 48 | 56 | DOM; | |
| 13S/03E-09T96 | PRUNEDALE | 10/4/60 | VALLEY PUMP | | | | 220 | TEST WELL | |
| 13S/03E-09T97 | PRUNEDALE | 9/16/66 | C.F. DOUGHERTY | 8 | 156 | 196 | 204 | DOM; | |
| 13S/03E-09T98 | PRUNEDALE | 1/10/63 | C.F. DOUGHERTY | 8 | 84 | 210 | 214 | DOM; | |
| 13S/03E-09T99 | PRUNEDALE | 5/24/78 | MAGGIORA BROS | 6 | 140 | 220 | 250 | DOM; | |
| 13S/03E-09T99B | PRUNEDALE | 10/16/80 | MAGGIORA BROS | 6 | 135 | 335 | 335 | DOM; | |
| 13S/03E-09T99 | PRUNEDALE | 6/16/74 | ASH & SONS | 6 | 360 | 455 | 455 | DEEPENING | |
| 13S/03E-09T99 | PRUNEDALE | 10/20/75 | MAGGIORA BROS | 5 | 195 | 335 | 370 | DOM; | |
| 13S/03E-09T99E | PRUNEDALE | 9/16/61 | C.F. DOUGHERTY | 8 | 36 | 76 | 84 | DOM; | |
| 13S/03E-09T99F | PRUNEDALE | 8/30/52 | C.F. DOUGHERTY | 8 | 51 | 81 | 90 | DOM; | |
| 13S/03E-09T99 | PRUNEDALE | 3/3/79 | C.F. DOUGHERTY | 8 | 72 | 132 | 140 | DOM; | |
| 13S/03E-09T99 | PRUNEDALE | 10/20/64 | C.F. DOUGHERTY | 7 | 292 | 340 | 352 | DOM; | |
| 13S/03E-09T99I | PRUNEDALE | 10/1/80 | ROMAN WELL DRILLING | 5 | 200 | 400 | 400 | DOM; | |
| 13S/03E-09T99J | PRUNEDALE | 7/22/64 | C.F. DOUGHERTY | 10 | 183 | 416 | 424 | DOM; | |
| 13S/03E-09T99 | PRUNEDALE | 3/30/66 | MELS DRILLING | 8 | 220 | 300 | 300 | DOM; | |
| 13S/03E-09T99 | PRUNEDALE | 7/6/61 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 13S/03E-09T99 | PRUNEDALE | 5/24/78 | MAGGIORA BROS | 6 | 140 | 220 | 250 | DOM; | |
| 13S/03E-09T99P | PRUNEDALE | 10/22/93 | ASH & SONS | 5 | 400 | 460 | 440 | DOM | |
| 13S/03E-09T99 | PRUNEDALE | 10/27/93 | ASH & SONS | 5 | 422 | 542 | 542 | DOM | |
| 13S/03E-10A50 | PRUNEDALE | 3/6/90 | ASH & SONS | 5 | 370 | 430 | 430 | DOM | |
| 13S/03E-10B50 | PRUNEDALE | 5/27/89 | ASH & SONS | 5 | 280 | 380 | 395 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-10D01 | PRUNEDALE | | | 7 | 200 | 448 | 448 | DOM; | |
| 13S/03E-10D50 | PRUNEDALE | 9/10/77 | MAGGIORA BROS | 5 | 250 | 550 | 550 | DOM; | |
| 13S/03E-10F50 | PRUNEDALE | 6/8/83 | ASH & SONS | 5 | 257 | 297 | 304 | DOM; | |
| 13S/03E-10G01 | PRUNEDALE | 6/25/75 | MAGGIORA BROS | 5 | 80 | 375 | 400 | DOM; | |
| 13S/03E-10H50 | PRUNEDALE | 8/25/88 | ASH & SONS | 5 | 280 | 380 | 420 | DOM; | |
| 13S/03E-10H51 | PRUNEDALE | 12/13/91 | ASH & SONS | 5 | 378 | 418 | 418 | DOM; | |
| 13S/03E-10H52 | PRUNEDALE | 7/26/92 | ROBINETT & SONS | | 100 | 200 | 210 | DOM | |
| 13S/03E-10K01 | PRUNEDALE | 11/17/73 | MAGGIORA BROS | 9 | | | 320 | DOM; | |
| 13S/03E-10K02 | PRUNEDALE | 8/8/78 | SALINAS PUMP CO | 8 | 54 | 334 | 129 | DOM;MUN; | |
| 13S/03E-10K50 | PRUNEDALE | 12/12/88 | SALINAS PUMP CO | 5 | 80 | 410 | 438 | DOM; | |
| 13S/03E-10K51 | PRUNEDALE | 2/3/88 | ASH & SONS | 5 | 235 | 275 | 276 | DOM; | |
| 13S/03E-10K52 | PRUNEDALE | 6/24/78 | MAGGIORA BROS | 5 | 165 | 385 | 420 | DOM; | |
| 13S/03E-10L01 | PRUNEDALE | 5/1/74 | ASH & SONS | 7 | 100 | 129 | 129 | DOM; | |
| 13S/03E-10L50 | PRUNEDALE | 5/4/61 | C.F. DOUGHERTY | 8 | 14 | 80 | 88 | DOM; | |
| 13S/03E-10L51 | PRUNEDALE | 12/8/78 | CHAPPELL PUMP & SUPPLY | | | | 310 | TEST WELL | |
| 13S/03E-10M50 | PRUNEDALE | 7/16/79 | CULLUM SYSTEMS | 8 | 80 | 260 | 280 | DOM; | |
| 13S/03E-10N01 | PRUNEDALE | | | | | | 145 | DOM; | |
| 13S/03E-10N50 | PRUNEDALE | 8/16/60 | C.F. DOUGHERTY | 7 | 160 | 200 | 204 | DOM; | |
| 13S/03E-10N51 | PRUNEDALE | 8/31/78 | MAGGIORA BROS | 6 | 50 | 280 | 295 | DOM; | |
| 13S/03E-10N52 | PRUNEDALE | 11/12/77 | ASH & SONS | 7 | 200 | 232 | 232 | DOM; | |
| 13S/03E-10P01 | PRUNEDALE | 12/2/69 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/03E-10P02 | PRUNEDALE | | CHAPPELL PUMP & SUPPLY | 5 | 380 | 720 | 723 | DOM; | |
| 13S/03E-10P50 | PRUNEDALE | 3/22/88 | ASH & SONS | 5 | 360 | 460 | 461 | DOM; | |
| 13S/03E-10Q01 | PRUNEDALE | 8/1/35 | ALSOP & SON | | 61 | 76 | 76 | DOM; | |
| 13S/03E-10Q02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-10Q50 | PRUNEDALE | 8/9/88 | ASH & SONS | 5 | 375 | 575 | 580 | DOM; | |
| 13S/03E-10Q51 | PRUNEDALE | 9/17/81 | ASH & SONS | 5 | 265 | 325 | 345 | DOM; | |
| 13S/03E-10Q52 | PRUNEDALE | 3/15/77 | ASH & SONS | 7 | 160 | 200 | 200 | DOM; | |
| 13S/03E-10T50 | PRUNEDALE | 9/30/66 | NUNES | 8 | 24 | 64 | 72 | DOM; | |
| 13S/03E-10T51 | PRUNEDALE | 6/24/72 | ASH & SONS | 6 | 160 | 196 | 206 | DOM; | |
| 13S/03E-10T52 | PRUNEDALE | 4/12/57 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-10T53 | PRUNEDALE | 6/6/59 | C.F. DOUGHERTY | 8 | 88 | 128 | 136 | DOM; | |
| 13S/03E-10T54 | PRUNEDALE | 3/23/54 | C.F. DOUGHERTY | 8 | 150 | 250 | 365 | DOM; | |
| 13S/03E-10T55 | PRUNEDALE | 4/30/79 | CULLUM SYSTEMS | 8 | 70 | 240 | 250 | DOM; | |
| 13S/03E-10T56 | PRUNEDALE | 8/8/62 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-10T57 | PRUNEDALE | 7/23/55 | C.F. DOUGHERTY | 8 | 104 | 136 | 144 | DOM; | |
| 13S/03E-10T58 | PRUNEDALE | 10/22/66 | C.F. DOUGHERTY | 8 | 196 | 236 | 244 | DOM; | |
| 13S/03E-10T59 | PRUNEDALE | 1/29/58 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-10T60 | PRUNEDALE | 5/23/56 | C.F. DOUGHERTY | 8 | 28 | 68 | 76 | DOM; | |
| 13S/03E-10T61 | PRUNEDALE | 11/24/62 | C.F. DOUGHERTY | 8 | 40 | 80 | 88 | DOM; | |
| 13S/03E-10T62 | PRUNEDALE | 10/2/66 | NUNES | 8 | 40 | 80 | 88 | DOM; | |
| 13S/03E-10T63 | PRUNEDALE | 9/7/73 | ASH & SONS | | | | 110 | TEST WELL | |
| 13S/03E-10T64 | PRUNEDALE | 4/12/79 | CULLUM SYSTEMS | 9 | 80 | 180 | 225 | MUN; | |
| 13S/03E-10T65 | PRUNEDALE | 2/20/54 | C.F. DOUGHERTY | 8 | 128 | 160 | 168 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-10T66 | PRUNEDALE | 3/11/63 | C.F. DOUGHERTY | 8 | 100 | 140 | 148 | DOM; | |
| 13S/03E-10T67 | PRUNEDALE | 1/13/65 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 13S/03E-10T68 | PRUNEDALE | 2/24/66 | C.F. DOUGHERTY | 8 | 196 | 248 | 252 | DOM; | |
| 13S/03E-10T69 | PRUNEDALE | 3/10/61 | C.F. DOUGHERTY | 7 | 78 | 126 | 130 | DOM; | |
| 13S/03E-10T70 | PRUNEDALE | 11/28/61 | C.F. DOUGHERTY | 8 | 84 | 124 | 132 | DOM; | |
| 13S/03E-10T71 | PRUNEDALE | 3/6/79 | AMERICAN HOME | 7 | 250 | 465 | 465 | DOM; | |
| 13S/03E-10T72 | PRUNEDALE | 2/25/64 | MELS DRILLING | 8 | | | 200 | DOM; | |
| 13S/03E-10T73 | PRUNEDALE | 12/29/68 | ASH & SONS | 6 | 342 | 414 | 419 | DOM; | |
| 13S/03E-10T74 | PRUNEDALE | 7/6/62 | C.F. DOUGHERTY | 8 | 88 | 128 | 136 | DOM; | |
| 13S/03E-10T75 | PRUNEDALE | 10/8/66 | NUNES | 8 | 40 | 80 | 88 | DOM; | |
| 13S/03E-10T76 | PRUNEDALE | 3/5/79 | CHAPPELL PUMP & SUPPLY | 5 | 380 | 720 | 724 | DOM | |
| 13S/03E-14K50 | PRUNEDALE | 8/4/93 | SALINAS PUMP CO | 5 | 168 | 609 | 630 | DOM | |
| 13S/03E-14M01 | PRUNEDALE | 8/24/72 | ASH & SONS | 66 | 320 | 402 | 402 | DOM; | |
| 13S/03E-14N50 | PRUNEDALE | 1/12/50 | C.F. DOUGHERTY | 10 | 18 | 156 | 156 | STOCK | |
| 13S/03E-14N51 | PRUNEDALE | 7/4/86 | ASH & SONS | 5 | 407 | 443 | 480 | DOM; | |
| 13S/03E-14N52 | PRUNEDALE | 4/26/93 | ASH & SONS | 5 | 480 | 520 | 520 | DOM | |
| 13S/03E-14T50 | PRUNEDALE | 11/23/77 | CLIFFORD PUMP & WELL | 6 | 260 | 320 | 334 | DOM | |
| 13S/03E-14T51 | PRUNEDALE | 6/11/58 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-14T52 | PRUNEDALE | 7/31/74 | MAGGIORA BROS | 6 | 100 | 215 | 220 | DOM; | |
| 13S/03E-14T53 | PRUNEDALE | 2/5/80 | CHAPPELL PUMP & SUPPLY | 7 | 190 | 370 | 380 | DOM | |
| 13S/03E-15B50 | PRUNEDALE | 3/23/82 | ASH & SONS | 5 | 342 | 392 | 394 | DOM; | |
| 13S/03E-15B51 | PRUNEDALE | 2/5/87 | ASH & SONS | 5 | 280 | 400 | 405 | DOM; | |
| 13S/03E-15C01 | PRUNEDALE | 5/4/56 | C.F. DOUGHERTY | 8 | 76 | 116 | 124 | DOM; | |
| 13S/03E-15C02 | PRUNEDALE | | | 8 | | | 179 | DOM; | |
| 13S/03E-15C50 | PRUNEDALE | 6/19/78 | CULLUM SYSTEMS | 9 | 130 | 250 | 265 | DOM; | |
| 13S/03E-15C51 | PRUNEDALE | 6/28/78 | MAGGIORA BROS | 6 | 85 | 290 | 300 | DOM; | |
| 13S/03E-15C52 | PRUNEDALE | 10/29/68 | C.F. DOUGHERTY | 8 | 160 | 272 | 280 | DOM; | |
| 13S/03E-15D01 | PRUNEDALE | | | 8 | | | 312 | DOM; | |
| 13S/03E-15D50 | PRUNEDALE | 3/19/87 | ASH & SONS | 5 | 410 | 450 | 460 | DOM; | |
| 13S/03E-15D51 | PRUNEDALE | 11/3/93 | ASH & SONS | 5 | 420 | 480 | 480 | DOM | |
| 13S/03E-15E50 | PRUNEDALE | 6/20/77 | ASH & SONS | 7 | 317 | 349 | 349 | DOM; | |
| 13S/03E-15F50 | PRUNEDALE | 2/24/90 | MELVILLE & SON | 8 | 280 | 490 | 500 | MUN | |
| 13S/03E-15G50 | PRUNEDALE | 5/17/77 | ASH & SONS | 7 | 234 | 266 | 266 | DOM; | |
| 13S/03E-15H50 | PRUNEDALE | 4/25/51 | C.F. DOUGHERTY | 8 | 40 | 150 | 167 | DOM; | |
| 13S/03E-15J50 | PRUNEDALE | 6/2/92 | DOUGHERTY PUMP & DRILLING | 5 | 40 | 80 | 80 | MON; | |
| 13S/03E-15J51 | PRUNEDALE | 6/3/92 | DOUGHERTY PUMP & DRILLING | 5 | 40 | 80 | 80 | MON; | |
| 13S/03E-15J52 | PRUNEDALE | 6/4/92 | DOUGHERTY PUMP & DRILLING | 5 | 40 | 80 | 80 | MON; | |
| 13S/03E-15J53 | PRUNEDALE | 6/4/92 | DOUGHERTY PUMP & DRILLING | | | | 235 | | DES; |
| 13S/03E-15K01 | PRUNEDALE | 6/22/76 | ASH & SONS | 7 | 265 | 297 | 297 | DOM; | |
| 13S/03E-15K50 | PRUNEDALE | 1/16/86 | MAGGIORA BROS | 6 | 130 | 350 | 390 | DOM; | |
| 13S/03E-15L01 | PRUNEDALE | 1/8/81 | ASH & SONS | 6 | 320 | 360 | 365 | DOM; | |
| 13S/03E-15L50 | PRUNEDALE | 1/10/86 | MAGGIORA BROS | 6 | 170 | 360 | 400 | DOM; | |
| 13S/03E-15L51 | PRUNEDALE | 8/27/93 | ASH & SONS | 5 | 366 | 406 | 406 | DOM | |
| 13S/03E-15M01 | PRUNEDALE | 12/8/83 | ROMAN WELL | 5 | 100 | 430 | 430 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-15N50 | PRUNEDALE | 7/21/77 | ASH & SONS | 7 | 280 | 312 | 312 | DOM; | |
| 13S/03E-15P01 | PRUNEDALE | 2/25/78 | ROMAN WELL DRILLING | 5 | 300 | 430 | 430 | DOM; | |
| 13S/03E-15P02 | PRUNEDALE | 9/18/77 | ASH & SONS | 7 | 289 | 497 | 497 | DOM; | |
| 13S/03E-15P50 | PRUNEDALE | 7/9/77 | ASH & SONS | 7 | 367 | 399 | 399 | DOM; | |
| 13S/03E-15P51 | PRUNEDALE | 8/30/77 | ASH & SONS | 7 | 395 | 427 | 427 | DOM; | |
| 13S/03E-15R50 | PRUNEDALE | 11/20/87 | ASH & SONS | 5 | 298 | 518 | 523 | DOM; | |
| 13S/03E-15R51 | PRUNEDALE | 7/4/50 | C.F. DOUGHERTY | 8 | 40 | 138 | 150 | DOM; | |
| 13S/03E-15R52 | PRUNEDALE | 9/20/77 | MAGGIORA BROS | 5 | 230 | 410 | 410 | DOM; | |
| 13S/03E-15R53 | PRUNEDALE | 2/20/90 | ASH & SONS | 5 | 422 | 542 | 545 | DOM; | |
| 13S/03E-15T50 | PRUNEDALE | 8/24/71 | C.F. DOUGHERTY | 7 | 204 | 304 | 312 | DOM; | |
| 13S/03E-15T51 | PRUNEDALE | 1/23/85 | ASH & SONS | 5 | 260 | 520 | 524 | DOM; | |
| 13S/03E-15T52 | PRUNEDALE | 11/18/78 | CLIFFORD PUMP & WELL | | | | 331 | | |
| 13S/03E-15T53 | PRUNEDALE | 8/13/62 | JESS SLATE DRILLING | 6 | 142 | 222 | 475 | DOM; | |
| 13S/03E-15T54 | PRUNEDALE | 7/28/76 | ASH & SONS | 7 | 290 | 322 | 322 | DOM; | |
| 13S/03E-15T55 | PRUNEDALE | 12/22/78 | MAGGIORA BROS | 9 | | | 810 | TEST WELL | |
| 13S/03E-15T56 | PRUNEDALE | 2/23/85 | ASH & SONS | 5 | 260 | 480 | 491 | DOM; | |
| 13S/03E-15T57 | PRUNEDALE | 1/15/77 | MELVILLE DRILLING | 7 | 200 | 264 | 272 | DOM; | |
| 13S/03E-15T58 | PRUNEDALE | 4/11/85 | ASH & SONS | 5 | 340 | 500 | 500 | DOM; | |
| 13S/03E-15T59 | PRUNEDALE | 8/25/78 | MAGGIORA BROS | 7 | 208 | 368 | 420 | DOM; | |
| 13S/03E-15T60 | PRUNEDALE | 9/21/76 | ASH & SONS | 7 | 280 | 313 | 313 | DOM; | |
| 13S/03E-15T61 | PRUNEDALE | 3/27/82 | ASH & SONS | 6 | 362 | 422 | 425 | IRR; | |
| 13S/03E-15T62 | PRUNEDALE | 10/7/76 | CLIFFORD PUMP & WELL | 6 | 180 | 200 | 205 | DOM | |
| 13S/03E-15T63 | PRUNEDALE | 5/6/78 | ROMAN WELL DRILLING | 7 | 265 | 446 | 446 | | |
| 13S/03E-15T64 | PRUNEDALE | 1/13/76 | MAGGIORA BROS | 9 | 90 | 295 | 300 | DOM; | |
| 13S/03E-15T65 | PRUNEDALE | 9/27/76 | ASH & SONS | 7 | 277 | 309 | 309 | DOM; | |
| 13S/03E-15T66 | PRUNEDALE | 6/21/85 | ASH & SONS | 5 | 355 | 415 | 423 | DOM; | |
| 13S/03E-15T67 | PRUNEDALE | 9/19/80 | ASH & SONS | 5 | 294 | 334 | 340 | DOM; | |
| 13S/03E-15T68 | PRUNEDALE | 1/9/72 | ASH & SONS | 6 | 340 | 380 | 390 | DOM; | |
| 13S/03E-15T69 | PRUNEDALE | 7/15/76 | ASH & SONS | 7 | 232 | 264 | 264 | DOM; | |
| 13S/03E-15T70 | PRUNEDALE | 8/9/79 | CHAPPELL PUMP & SUPPLY | 6 | 50 | 170 | 410 | DOM | |
| 13S/03E-15T71 | PRUNEDALE | | | | | | | DOM;MUN | |
| 13S/03E-16A01 | PRUNEDALE | | | 8 | 150 | 160 | 160 | DOM; | |
| 13S/03E-16B01 | PRUNEDALE | 10/29/60 | VALLEY PUMP | 8 | 140 | 280 | 360 | DOM; | |
| 13S/03E-16C01 | PRUNEDALE | 8/3/54 | DEATON | 8 | 24 | 44 | 44 | DOM; | |
| 13S/03E-16C02 | PRUNEDALE | | | | | | | | |
| 13S/03E-16C03 | PRUNEDALE | 6/2/66 | C.F. DOUGHERTY | 10 | 36 | 76 | 84 | DOM; | |
| 13S/03E-16C04 | PRUNEDALE | | | 10 | | | 313 | DOM; | |
| 13S/03E-16C50 | PRUNEDALE | 1/10/91 | ASH & SONS | 5 | 460 | 500 | 505 | DOM; | |
| 13S/03E-16C51 | PRUNEDALE | 9/28/75 | ASH & SONS | 7 | 280 | 314 | 314 | MUN; | |
| 13S/03E-16C52 | PRUNEDALE | 9/8/81 | ASH & SONS | 5 | 70 | 130 | 145 | | |
| 13S/03E-16C53 | PRUNEDALE | 8/12/83 | ASH & SONS | 5 | 300 | 340 | 340 | DOM; | |
| 13S/03E-16C54 | PRUNEDALE | 9/12/79 | ASH & SONS | 7 | 360 | 400 | 400 | DOM; | |
| 13S/03E-16D50 | PRUNEDALE | 11/20/90 | ASH & SONS | 5 | 440 | 500 | 505 | DOM; | |
| 13S/03E-16D51 | PRUNEDALE | 8/25/81 | ASH & SONS | 8 | 160 | 200 | 203 | | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-16D52 | PRUNEDALE | 3/25/88 | ASH & SONS | 5 | 445 | 505 | 521 | DOM; | |
| 13S/03E-16D53 | PRUNEDALE | 3/28/51 | C.F. DOUGHERTY | 8 | 48 | 69 | 78 | DOM; | |
| 13S/03E-16E01 | PRUNEDALE | 9/11/86 | ASH & SONS | 5 | 280 | 320 | 322 | DOM; | |
| 13S/03E-16E50 | PRUNEDALE | 4/28/73 | ASH & SONS | 7 | 280 | 316 | 316 | DOM; | |
| 13S/03E-16E51 | PRUNEDALE | 12/11/87 | C.F. DOUGHERTY | 6 | 280 | 360 | 360 | DOM; | |
| 13S/03E-16E52 | PRUNEDALE | 4/12/68 | C.F. DOUGHERTY | 7 | 292 | 352 | 367 | DOM; | |
| 13S/03E-16E53 | PRUNEDALE | 6/27/86 | ASH & SONS | 5 | 335 | 395 | 400 | DOM; | |
| 13S/03E-16E54 | PRUNEDALE | | ROBINETT & SONS | | 120 | 173 | 173 | IRR; | |
| 13S/03E-16E55 | PRUNEDALE | 11/17/93 | ASH & SONS | 6 | 290 | 350 | 350 | DOM | |
| 13S/03E-16F01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-16F50 | PRUNEDALE | 4/5/85 | ASH & SONS | 6 | 338 | 398 | 405 | DOM; | |
| 13S/03E-16F51 | PRUNEDALE | 4/26/85 | ASH & SONS | 6 | 200 | 296 | 425 | DOM; | |
| 13S/03E-16F52 | PRUNEDALE | 10/5/84 | ASH & SONS | 6 | 480 | 540 | 540 | DOM; | |
| 13S/03E-16G01 | PRUNEDALE | | | 10 | 200 | 0 | 364 | DOM; | |
| 13S/03E-16H01 | PRUNEDALE | 6/28/77 | ASH & SONS | 66 | 317 | 349 | 349 | DOM; | |
| 13S/03E-16H02 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-16H50 | PRUNEDALE | 8/17/77 | ASH & SONS | 7 | 301 | 409 | 409 | DOM; | |
| 13S/03E-16H51 | PRUNEDALE | 11/3/87 | ASH & SONS | 5 | 280 | 320 | 323 | DOM; | |
| 13S/03E-16J01 | PRUNEDALE | 9/16/58 | C.F. DOUGHERTY | 10 | 104 | 244 | 252 | DOM; | |
| 13S/03E-16J02 | PRUNEDALE | 9/19/78 | ROBINETT & SONS | | | | 352 | DOM; | |
| 13S/03E-16J03 | PRUNEDALE | | | 7 | 317 | 349 | 349 | DOM; | |
| 13S/03E-16J50 | PRUNEDALE | 7/15/78 | ROMAN WELL DRILLING | 8 | 270 | 370 | 370 | DOM; | |
| 13S/03E-16K01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-16K02 | PRUNEDALE | 9/16/58 | C.F. DOUGHERTY | 10 | 104 | 244 | 252 | DOM; | |
| 13S/03E-16K50 | PRUNEDALE | 12/18/90 | ASH & SONS | 5 | 380 | 420 | 430 | DOM; | |
| 13S/03E-16K51 | PRUNEDALE | 9/24/83 | ASH & SONS | 5 | 310 | 350 | 350 | DOM; | |
| 13S/03E-16K52 | PRUNEDALE | 6/14/91 | | 5 | 440 | 500 | 502 | DOM; | |
| 13S/03E-16K53 | PRUNEDALE | 7/30/92 | ASH & SONS | 5 | 460 | 500 | 500 | DOM | |
| 13S/03E-16L50 | PRUNEDALE | 3/23/84 | ASH & SONS | 5 | 425 | 485 | 492 | DOM; | |
| 13S/03E-16L51 | PRUNEDALE | 9/8/66 | C.F. DOUGHERTY | 8 | 346 | 402 | 410 | DOM; | DES |
| 13S/03E-16M50 | PRUNEDALE | 7/22/74 | ASH & SONS | 7 | 282 | 378 | 408 | DOM; | |
| 13S/03E-16N01 | PRUNEDALE | 11/16/71 | DOUGHERTY PUMP & DRILLING | 8 | 272 | 312 | 324 | DOM; | |
| 13S/03E-16N02 | PRUNEDALE | 6/17/77 | ASH & SONS | 6 | | | 313 | DOM; | |
| 13S/03E-16N03 | PRUNEDALE | | | 8 | | | 230 | DOM; | |
| 13S/03E-16N50 | PRUNEDALE | 1/18/91 | ASH & SONS | 5 | 267 | 307 | 320 | DOM; | |
| 13S/03E-16N51 | PRUNEDALE | 8/29/68 | C.F. DOUGHERTY | 10 | 204 | 244 | 260 | DOM; | |
| 13S/03E-16N52 | PRUNEDALE | 5/31/85 | ASH & SONS | 5 | 435 | 495 | 501 | DOM; | |
| 13S/03E-16N53 | PRUNEDALE | 8/19/57 | C.F. DOUGHERTY | 8 | 244 | 284 | 292 | DOM; | |
| 13S/03E-16N54 | PRUNEDALE | 11/4/92 | ASH & SONS | 5 | 315 | 355 | 355 | DOM | |
| 13S/03E-16N55 | PRUNEDALE | | ASH & SONS | | | | 265 | | DES |
| 13S/03E-16P50 | PRUNEDALE | 5/29/68 | C.F. DOUGHERTY | 8 | 304 | 344 | 352 | DOM; | |
| 13S/03E-16Q01 | PRUNEDALE | 7/21/77 | ASH & SONS | 66 | 279 | 503 | 503 | DOM; | DES |
| 13S/03E-16Q02 | PRUNEDALE | 8/4/78 | ASH & SONS | 66 | 304 | 548 | 548 | DOM; | |
| 13S/03E-16T50 | PRUNEDALE | 10/16/80 | ASH & SONS | 5 | 313 | 353 | 355 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-16T51 | PRUNEDALE | 5/28/60 | C.F. DOUGHERTY | 8 | 244 | 284 | 292 | DOM; | |
| 13S/03E-16T52 | PRUNEDALE | 6/30/72 | ASH & SONS | 6 | 320 | 356 | 370 | DOM; | |
| 13S/03E-16T53 | PRUNEDALE | 11/8/62 | C.F. DOUGHERTY | 8 | 200 | 292 | 300 | DOM; | |
| 13S/03E-16T54 | PRUNEDALE | 5/17/69 | MAGGIORA BROS | 30 | 15 | 45 | 45 | DOM; | |
| 13S/03E-16T55 | PRUNEDALE | 10/3/71 | ASH & SONS | 6 | 300 | 336 | 342 | DOM; | |
| 13S/03E-16T56 | PRUNEDALE | 8/30/61 | C.F. DOUGHERTY | 8 | 190 | 477 | 481 | DOM; | |
| 13S/03E-16T57 | PRUNEDALE | 5/22/63 | C.F. DOUGHERTY | 8 | 180 | 386 | 390 | DOM; | |
| 13S/03E-16T58 | PRUNEDALE | 12/17/63 | C.F. DOUGHERTY | 8 | 208 | 248 | 258 | DOM; | |
| 13S/03E-16T59 | PRUNEDALE | 5/11/76 | ASH & SONS | 7 | 368 | 400 | 400 | DOM; | |
| 13S/03E-16T60 | PRUNEDALE | 9/13/61 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 13S/03E-16T62 | PRUNEDALE | 4/27/62 | C.F. DOUGHERTY | 8 | 168 | 236 | 240 | DOM; | |
| 13S/03E-16T63 | PRUNEDALE | 7/18/60 | C.F. DOUGHERTY | 8 | 270 | 305 | 320 | DOM; | |
| 13S/03E-16T64 | PRUNEDALE | 9/17/70 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | DOM; | |
| 13S/03E-16T65 | PRUNEDALE | 8/11/53 | C.F. DOUGHERTY | 8 | 288 | 318 | 327 | DOM; | |
| 13S/03E-16T66 | PRUNEDALE | 4/25/56 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | DOM; | |
| 13S/03E-16T67 | PRUNEDALE | 5/25/66 | DEATON | 8 | 60 | 100 | 100 | DOM; | |
| 13S/03E-16T68 | PRUNEDALE | 7/1/61 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 13S/03E-16T69 | PRUNEDALE | 6/3/74 | C.F. DOUGHERTY | 10 | 160 | 220 | 235 | DOM; | |
| 13S/03E-16T70 | PRUNEDALE | 5/4/56 | C.F. DOUGHERTY | 8 | 76 | 116 | 124 | DOM; | |
| 13S/03E-16T71 | PRUNEDALE | 8/14/76 | MELVILLE DRILLING | 8 | 132 | 178 | 308 | DOM; | |
| 13S/03E-17A50 | PRUNEDALE | 6/13/88 | C.F. DOUGHERTY | 8 | 300 | 400 | 407 | MULTIPLE | |
| 13S/03E-17A51 | PRUNEDALE | 10/15/88 | ASH & SONS | 8 | 395 | 615 | 621 | DOM; | |
| 13S/03E-17B01 | PRUNEDALE | 10/12/54 | C.F. DOUGHERTY | 8 | 39 | 70 | 78 | DOM; | |
| 13S/03E-17B02 | PRUNEDALE | 9/25/80 | ASH & SONS | 5 | 320 | 356 | 356 | DOM; | |
| 13S/03E-17B03 | PRUNEDALE | 5/1/80 | ASH & SONS | 7 | 288 | 320 | 335 | DOM; | |
| 13S/03E-17B50 | PRUNEDALE | 10/30/87 | DOUGHERTY PUMP & DRILLING | 6 | 430 | 530 | 550 | DOM; | |
| 13S/03E-17C01 | PRUNEDALE | 2/25/69 | THE PUMP SHOP | 8 | 84 | 168 | 172 | DOM; | |
| 13S/03E-17C02 | PRUNEDALE | 7/3/61 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 13S/03E-17C03 | PRUNEDALE | 10/1/61 | | | | | 108 | DOM; | |
| 13S/03E-17C50 | PRUNEDALE | 12/7/83 | ASH & SONS | 5 | 260 | 300 | 300 | DOM; | |
| 13S/03E-17C51 | PRUNEDALE | 10/12/54 | C.F. DOUGHERTY | 8 | 39 | 70 | 78 | DOM; | |
| 13S/03E-17C52 | PRUNEDALE | 2/20/89 | C.F. DOUGHERTY | 6 | 440 | 500 | 510 | DOM; | |
| 13S/03E-17C53 | PRUNEDALE | 5/19/93 | ASH & SONS | 6 | 370 | 410 | 410 | DOM | |
| 13S/03E-17D50 | PRUNEDALE | 6/30/84 | ASH & SONS | 5 | 230 | 270 | 280 | DOM; | |
| 13S/03E-17F01 | PRUNEDALE | 1/1/53 | DEATON | 8 | | | 65 | DOM; | |
| 13S/03E-17F02 | PRUNEDALE | 6/4/79 | C.F. DOUGHERTY | 8 | 244 | 284 | 392 | DOM; | |
| 13S/03E-17F50 | PRUNEDALE | 8/23/78 | ASH & SONS | 7 | 228 | 260 | 260 | DOM; | |
| 13S/03E-17F51 | PRUNEDALE | 12/23/76 | ASH & SONS | 7 | 280 | 312 | 312 | DOM; | |
| 13S/03E-17G01 | PRUNEDALE | 2/28/81 | ASH & SONS | 5 | 295 | 355 | 360 | DOM; | |
| 13S/03E-17G02 | PRUNEDALE | 5/25/79 | ASH & SONS | 9 | 418 | 458 | 458 | DOM; | |
| 13S/03E-17G50 | PRUNEDALE | 10/8/90 | MAGGIORA BROS | 4 | 65 | 95 | 95 | MON | |
| 13S/03E-17G51 | PRUNEDALE | 9/20/90 | MAGGIORA BROS | 4 | 35 | 45 | 45 | MON | |
| 13S/03E-17G52 | PRUNEDALE | 5/31/79 | ASH & SONS | 9 | 445 | 485 | 485 | DOM; | |
| 13S/03E-17G53 | PRUNEDALE | 9/9/81 | ASH & SONS | 5 | 140 | 180 | 185 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-17G54 | PRUNEDALE | 2/29/84 | ASH & SONS | 5 | 295 | 355 | 360 | DOM; | |
| 13S/03E-17G55 | PRUNEDALE | 5/14/85 | ASH & SONS | 5 | 315 | 375 | 385 | DOM; | |
| 13S/03E-17H50 | PRUNEDALE | 12/15/81 | ASH & SONS | 5 | 265 | 305 | 313 | DOM; | |
| 13S/03E-17H51 | PRUNEDALE | 5/27/89 | ASH & SONS | 5 | 403 | 443 | 450 | DOM; | |
| 13S/03E-17J50 | PRUNEDALE | 9/3/77 | ASH & SONS | 7 | 280 | 312 | 312 | DOM; | |
| 13S/03E-17J51 | PRUNEDALE | 5/12/50 | C.F. DOUGHERTY | 8 | 90 | 111 | 120 | DOM; | |
| 13S/03E-17J52 | PRUNEDALE | 10/29/92 | ASH & SONS | 5 | 480 | 540 | 540 | DOM | |
| 13S/03E-17K01 | PRUNEDALE | 1/12/84 | ASH & SONS | 6 | 310 | 350 | 350 | DOM; | |
| 13S/03E-17K50 | PRUNEDALE | 10/7/81 | ASH & SONS | 5 | 275 | 315 | 340 | DOM; | |
| 13S/03E-17K51 | PRUNEDALE | 2/7/89 | ASH & SONS | 5 | 285 | 325 | 330 | DOM; | |
| 13S/03E-17K52 | PRUNEDALE | 9/15/88 | C.F. DOUGHERTY | 5 | 240 | 320 | 320 | DOM; | |
| 13S/03E-17K53 | PRUNEDALE | 12/14/84 | ASH & SONS | 5 | 280 | 320 | 325 | DOM; | |
| 13S/03E-17K54 | PRUNEDALE | 8/12/85 | ASH & SONS | 5 | 260 | 300 | 303 | DOM; | |
| 13S/03E-17L01 | PRUNEDALE | 11/22/75 | ASH & SONS | 14 | 204 | 252 | 252 | DOM; | |
| 13S/03E-17L50 | PRUNEDALE | 7/17/78 | ASH & SONS | 7 | 219 | 251 | 251 | | |
| 13S/03E-17L51 | PRUNEDALE | 10/18/88 | C.F. DOUGHERTY | | | | 33 | | DES |
| 13S/03E-17L52 | PRUNEDALE | 6/13/92 | MAGGIORA BROS | 4 | 30 | 40 | 40 | MON | |
| 13S/03E-17L53 | PRUNEDALE | 6/14/92 | MAGGIORA BROS | 4 | 30 | 40 | 40 | MON | |
| 13S/03E-17L54 | PRUNEDALE | 6/15/92 | MAGGIORA BROS | 4 | 2 | 8 | 10 | MON | |
| 13S/03E-17P50 | PRUNEDALE | 5/30/71 | ASH & SONS | 6 | 200 | 260 | 209 | DOM; | |
| 13S/03E-17P51 | PRUNEDALE | 11/4/88 | ASH & SONS | 5 | 280 | 320 | 330 | DOM; | |
| 13S/03E-17Q01 | PRUNEDALE | 4/11/49 | C.F. DOUGHERTY | 8 | 102 | 123 | 132 | DOM; | |
| 13S/03E-17Q02 | PRUNEDALE | 8/29/68 | C.F. DOUGHERTY | 10 | 204 | 244 | 260 | DOM; | |
| 13S/03E-17Q03 | PRUNEDALE | | | | | | 150 | DOM; | |
| 13S/03E-17Q04 | PRUNEDALE | | | 12 | 302 | 456 | 481 | DOM; | |
| 13S/03E-17Q05 | PRUNEDALE | | | 8 | | | 188 | DOM; | |
| 13S/03E-17Q50 | PRUNEDALE | 6/2/92 | DOUGHERTY PUMP & DRILLING | 6 | 260 | 360 | 360 | DOM; | |
| 13S/03E-17R01 | PRUNEDALE | | | 8 | 200 | 297 | 300 | DOM; | |
| 13S/03E-17R02 | PRUNEDALE | | | 8 | | | 1001 | DOM; | |
| 13S/03E-17R03 | PRUNEDALE | 6/17/86 | C.F. DOUGHERTY | 6 | 220 | 320 | 330 | DOM; | |
| 13S/03E-17R50 | PRUNEDALE | 10/4/85 | ASH & SONS | 5 | 384 | 444 | 450 | DOM; | |
| 13S/03E-17R51 | PRUNEDALE | 7/11/85 | ASH & SONS | 5 | 320 | 360 | 363 | DOM; | |
| 13S/03E-17R52 | PRUNEDALE | 11/14/89 | SALINAS PUMP CO | 5 | 200 | 390 | 412 | DOM; | |
| 13S/03E-17R53 | PRUNEDALE | 2/5/88 | ASH & SONS | 5 | 360 | 400 | 405 | DOM; | |
| 13S/03E-17R54 | PRUNEDALE | 9/4/87 | C.F. DOUGHERTY | 6 | 240 | 320 | 320 | DOM; | |
| 13S/03E-17R55 | PRUNEDALE | 11/21/92 | ASH & SONS | 5 | 370 | 410 | 410 | DOM | |
| 13S/03E-17T50 | PRUNEDALE | 1/30/76 | ASH & SONS | 7 | 178 | 210 | 210 | DOM; | |
| 13S/03E-17T51 | PRUNEDALE | 5/17/62 | C.F. DOUGHERTY | 8 | 20 | 40 | 68 | DOM; | |
| 13S/03E-17T52 | PRUNEDALE | 6/11/54 | C.F. DOUGHERTY | 7 | 98 | 138 | 142 | DOM; | |
| 13S/03E-17T53 | PRUNEDALE | 12/20/61 | C.F. DOUGHERTY | 8 | 148 | 188 | 196 | DOM; | |
| 13S/03E-17T54 | PRUNEDALE | | ROBINETT & SONS | 8 | 203 | 368 | 368 | DOM; | |
| 13S/03E-17T55 | PRUNEDALE | 9/24/63 | C.F. DOUGHERTY | 8 | 136 | 176 | 184 | DOM; | |
| 13S/03E-17T56 | PRUNEDALE | 11/21/80 | ASH & SONS | 6 | 212 | 252 | 260 | DOM; | |
| 13S/03E-17T57 | PRUNEDALE | 7/6/55 | C.F. DOUGHERTY | 8 | 36 | 68 | 76 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-17T58 | PRUNEDALE | 7/28/59 | C.F. DOUGHERTY | 8 | 56 | 96 | 104 | DOM; | |
| 13S/03E-17T59 | PRUNEDALE | 11/3/78 | SALINAS PUMP CO | 8 | 200 | 340 | 340 | DOM; | |
| 13S/03E-17T60 | PRUNEDALE | 5/16/66 | C.F. DOUGHERTY | 8 | 124 | 164 | 172 | DOM; | |
| 13S/03E-17T61 | PRUNEDALE | 6/5/64 | C.F. DOUGHERTY | 10 | 332 | 372 | 380 | DOM; | |
| 13S/03E-17T62 | PRUNEDALE | 6/5/80 | ASH & SONS | 6 | 220 | 260 | 260 | DOM; | |
| 13S/03E-17T63 | PRUNEDALE | 2/6/76 | ASH & SONS | 7 | 168 | 200 | 200 | DOM; | |
| 13S/03E-17T64 | PRUNEDALE | 5/12/71 | C.F. DOUGHERTY | 8 | 84 | 124 | 132 | DOM; | |
| 13S/03E-17T65 | PRUNEDALE | 2/25/63 | C.F. DOUGHERTY | 8 | 132 | 192 | 240 | DOM; | |
| 13S/03E-17T66 | PRUNEDALE | 8/23/79 | ASH & SONS | 5 | 220 | 260 | 260 | DOM; | |
| 13S/03E-17T67 | PRUNEDALE | 6/28/76 | ASH & SONS | 7 | 280 | 314 | 314 | DOM; | |
| 13S/03E-17T68 | PRUNEDALE | 4/30/55 | C.F. DOUGHERTY | 8 | 120 | 152 | 160 | DOM; | |
| 13S/03E-17T69 | PRUNEDALE | 7/30/76 | ASH & SONS | 7 | 304 | 338 | 338 | DOM; | |
| 13S/03E-17T70 | PRUNEDALE | 4/18/76 | ASH & SONS | 6 | 130 | 160 | 160 | DOM; | |
| 13S/03E-17T71 | PRUNEDALE | 6/16/81 | ASH & SONS | 5 | 160 | 205 | 212 | DOM; | |
| 13S/03E-17T72 | PRUNEDALE | 11/19/71 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 13S/03E-17T73 | PRUNEDALE | 5/21/54 | C.F. DOUGHERTY | 8 | 40 | 72 | 80 | DOM; | |
| 13S/03E-17T74 | PRUNEDALE | 2/26/79 | ASH & SONS | 7 | 283 | 315 | 315 | DOM; | |
| 13S/03E-17T75 | PRUNEDALE | 7/21/55 | C.F. DOUGHERTY | 8 | 188 | 220 | 228 | DOM; | |
| 13S/03E-17T76 | PRUNEDALE | 5/8/65 | C.F. DOUGHERTY | 10 | 112 | 152 | 160 | DOM; | |
| 13S/03E-17T77 | PRUNEDALE | 1/19/63 | C.F. DOUGHERTY | 8 | 100 | 140 | 148 | DOM; | |
| 13S/03E-17T78 | PRUNEDALE | 7/29/66 | C.F. DOUGHERTY | 8 | 150 | 292 | 300 | DOM; | |
| 13S/03E-17T79 | PRUNEDALE | 3/24/80 | C.F. DOUGHERTY | 10 | 330 | 390 | 400 | DOM; | |
| 13S/03E-17T80 | PRUNEDALE | 8/2/93 | ASH & SONS | 5 | 240 | 320 | 320 | | |
| 13S/03E-17T81 | PRUNEDALE | 5/13/59 | C. F. DOUGHERTY | 8 | 108 | 148 | 156 | DOM | |
| 13S/03E-18A50 | PRUNEDALE | 8/6/77 | ASH & SONS | 7 | 398 | 430 | 432 | DOM; | |
| 13S/03E-18A51 | PRUNEDALE | 1/17/86 | ASH & SONS | 5 | 340 | 380 | 400 | DOM; | |
| 13S/03E-18A52 | PRUNEDALE | 7/12/85 | C.F. DOUGHERTY | 8 | 315 | 415 | 460 | DOM; | |
| 13S/03E-18B50 | PRUNEDALE | 2/24/78 | ASH & SONS | 7 | 359 | 391 | 391 | DOM; | |
| 13S/03E-18B51 | PRUNEDALE | 9/2/83 | ASH & SONS | 5 | 440 | 480 | 480 | DOM; | |
| 13S/03E-18B52 | PRUNEDALE | 12/9/83 | ASH & SONS | 5 | 455 | 495 | 495 | DOM; | |
| 13S/03E-18B53 | PRUNEDALE | 12/23/83 | ROBINETT & SONS | 6 | 300 | 400 | 400 | DOM; | |
| 13S/03E-18C50 | PRUNEDALE | 10/18/55 | | 12 | 360 | 457 | 476 | | |
| 13S/03E-18G50 | MORO COJO | 4/19/88 | ASH & SONS | 5 | 328 | 368 | 380 | DOM; | |
| 13S/03E-18H01 | PRUNEDALE | | | 6 | 290 | 0 | 380 | DOM; | |
| 13S/03E-18H02 | PRUNEDALE | | | 6 | 330 | 0 | 360 | DOM; | |
| 13S/03E-18H50 | PRUNEDALE | 5/12/89 | ASH & SONS | 5 | 460 | 500 | 505 | DOM; | |
| 13S/03E-18H51 | PRUNEDALE | 5/16/89 | ASH & SONS | 5 | 390 | 430 | 440 | DOM; | |
| 13S/03E-18H52 | PRUNEDALE | 6/1/81 | THORNTON | 8 | | 580 | 649 | DOM;IRR; | |
| 13S/03E-18J50 | PRUNEDALE | 9/5/79 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | DOM; | |
| 13S/03E-18L01 | PRUNEDALE | 1/1/57 | EDSBERG | | | | 200 | DOM; | |
| 13S/03E-18M01 | PRUNEDALE | | | | | | 275 | DOM; | |
| 13S/03E-18M50 | PRUNEDALE | 9/8/88 | ASH & SONS | 5 | 310 | 350 | 360 | DOM; | |
| 13S/03E-18T50 | PRUNEDALE | 1/23/66 | ASH & SONS | 6 | 280 | 320 | 346 | DOM; | |
| 13S/03E-18T51 | PRUNEDALE | 3/30/84 | ASH & SONS | 5 | 230 | 270 | 280 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-18T52 | PRUNEDALE | 11/22/80 | MAGGIORA BROS | 6 | 170 | 220 | 245 | IRR; | |
| 13S/03E-19A01 | PRUNEDALE | | | 6 | | | 255 | DOM; | |
| 13S/03E-19A50 | PRUNEDALE | 3/18/71 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 13S/03E-19A51 | PRUNEDALE | 7/18/84 | ASH & SONS | 5 | 280 | 320 | 320 | DOM; | |
| 13S/03E-19A52 | PRUNEDALE | 8/2/85 | ASH & SONS | 5 | 260 | 300 | 340 | DOM; | |
| 13S/03E-19B50 | PRUNEDALE | 9/27/85 | ASH & SONS | 5 | 320 | 360 | 365 | DOM; | |
| 13S/03E-19B51 | PRUNEDALE | 11/3/52 | NUNES | 8 | 170 | 201 | 210 | DOM; | |
| 13S/03E-19C01 | PRUNEDALE | 9/8/72 | DOUGHERTY PUMP & DRILLING | 8 | 280 | 320 | 328 | DOM; | |
| 13S/03E-19C50 | PRUNEDALE | 7/12/88 | ASH & SONS | 5 | 256 | 296 | 300 | DOM; | |
| 13S/03E-19E50 | PRUNEDALE | 3/10/89 | ASH & SONS | 6 | 290 | 350 | 385 | DOM; | |
| 13S/03E-19F01 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-19F02 | PRUNEDALE | 8/20/79 | ASH & SONS | 7 | 268 | 300 | 300 | DOM; | |
| 13S/03E-19F03 | PRUNEDALE | 10/6/76 | DOUGHERTY PUMP & DRILLING | 8 | 192 | 272 | 285 | DOM; | |
| 13S/03E-19F50 | PRUNEDALE | 3/7/79 | CULLUM SYSTEMS | 8 | 200 | 320 | 340 | DOM; | |
| 13S/03E-19G01 | PRUNEDALE | 1/29/75 | ASH & SONS | 7 | 243 | 275 | 295 | DOM; | |
| 13S/03E-19G50 | PRUNEDALE | 10/7/69 | C.F. DOUGHERTY | 8 | 192 | 232 | 240 | DOM; | |
| 13S/03E-19G51 | PRUNEDALE | 8/28/87 | SALINAS PUMP CO | 5 | 190 | 270 | 300 | DOM; | |
| 13S/03E-19G52 | PRUNEDALE | 10/1/50 | C.F. DOUGHERTY | 10 | 111 | 177 | 180 | DOM; | |
| 13S/03E-19G53 | PRUNEDALE | 8/13/82 | ASH & SONS | 5 | 327 | 367 | 399 | DOM; | |
| 13S/03E-19G54 | PRUNEDALE | 8/29/50 | C.F. DOUGHERTY | 8 | 159 | 180 | 189 | DOM; | |
| 13S/03E-19G55 | PRUNEDALE | 6/28/91 | ASH & SONS | | 330 | 370 | 370 | DOM | |
| 13S/03E-19H01 | PRUNEDALE | 5/18/54 | C.F. DOUGHERTY | 10 | 132 | 188 | 192 | DOM; | |
| 13S/03E-19H50 | PRUNEDALE | 4/10/92 | ASH & SONS | | | | | | DES; |
| 13S/03E-19H51 | PRUNEDALE | 3/31/92 | ASH & SONS | 5 | 195 | 235 | 235 | DOM; | |
| 13S/03E-19L01 | PRUNEDALE | | | 8 | 220 | 260 | 260 | DOM; | |
| 13S/03E-19L02 | PRUNEDALE | | | 8 | | | | DOM; | |
| 13S/03E-19L50 | PRUNEDALE | 5/26/87 | C.F. DOUGHERTY | 6 | 220 | 280 | 285 | DOM; | |
| 13S/03E-19L51 | PRUNEDALE | 7/29/89 | ASH & SONS | 5 | 300 | 340 | 347 | DOM; | |
| 13S/03E-19M50 | PRUNEDALE | 8/19/83 | ASH & SONS | 5 | 250 | 290 | 290 | DOM; | |
| 13S/03E-19Q01 | PRUNEDALE | 10/8/51 | WALKER | 12 | | | 703 | IRR; | |
| 13S/03E-19T50 | PRUNEDALE | 7/6/64 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/03E-19T51 | PRUNEDALE | 8/15/63 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 13S/03E-19T52 | PRUNEDALE | 8/26/75 | ASH & SONS | 7 | 200 | 232 | 245 | DOM; | |
| 13S/03E-19T53 | PRUNEDALE | 8/11/76 | ASH & SONS | 7 | 308 | 340 | 340 | DOM; | |
| 13S/03E-19T54 | PRUNEDALE | 5/7/72 | ASH & SONS | 6 | 280 | 316 | 325 | DOM; | |
| 13S/03E-19T55 | PRUNEDALE | 3/17/76 | C.F. DOUGHERTY | 8 | 264 | 312 | 320 | DOM; | |
| 13S/03E-19T56 | PRUNEDALE | 11/26/56 | C.F. DOUGHERTY | 8 | 68 | 108 | 116 | DOM; | |
| 13S/03E-19T57 | PRUNEDALE | 10/5/62 | C.F. DOUGHERTY | 8 | 100 | 140 | 148 | DOM; | |
| 13S/03E-19T58 | PRUNEDALE | 10/26/61 | C.F. DOUGHERTY | 8 | 152 | 312 | 360 | DOM; | |
| 13S/03E-19T59 | PRUNEDALE | 6/16/69 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/03E-19T60 | PRUNEDALE | 5/14/70 | C.F. DOUGHERTY | 8 | 184 | 224 | 232 | DOM; | |
| 13S/03E-19T61 | PRUNEDALE | 1/17/59 | C.F. DOUGHERTY | 7 | 236 | 304 | 310 | DOM; | |
| 13S/03E-19T62 | PRUNEDALE | 10/13/80 | ASH & SONS | 5 | 160 | 200 | 215 | DOM; | |
| 13S/03E-19T63 | PRUNEDALE | 1/2/78 | C.F. DOUGHERTY | 8 | 180 | 220 | 228 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-19T64 | PRUNEDALE | 4/24/52 | C.F. DOUGHERTY | 10 | 79 | 109 | 120 | DOM; | |
| 13S/03E-19T65 | PRUNEDALE | 10/1/75 | ASH & SONS | 7 | 288 | 324 | 335 | DOM; | |
| 13S/03E-19T66 | PRUNEDALE | 12/10/57 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 13S/03E-19T67 | PRUNEDALE | 8/12/60 | C.F. DOUGHERTY | 8 | 208 | 248 | 256 | DOM; | |
| 13S/03E-19T68 | PRUNEDALE | 3/8/79 | CULLUM SYSTEMS | | | | | | DES |
| 13S/03E-19T69 | PRUNEDALE | 5/19/54 | C.F. DOUGHERTY | 8 | 207 | 239 | 300 | DOM; | |
| 13S/03E-19T70 | PRUNEDALE | 6/20/60 | C.F. DOUGHERTY | 8 | 284 | 332 | 340 | DOM; | |
| 13S/03E-19T71 | PRUNEDALE | 5/23/71 | ASH & SONS | 6 | 228 | 260 | 272 | DOM; | |
| 13S/03E-19T72 | PRUNEDALE | 10/17/59 | C.F. DOUGHERTY | 8 | 180 | 232 | 240 | DOM; | |
| 13S/03E-19T73 | PRUNEDALE | 4/9/65 | C.F. DOUGHERTY | 7 | | | 380 | DOM; | |
| 13S/03E-19T74 | PRUNEDALE | 5/18/54 | C.F. DOUGHERTY | 10 | 132 | 188 | 192 | DOM; | |
| 13S/03E-19T75 | PRUNEDALE | 9/22/66 | NUNES | 8 | 120 | 160 | 168 | DOM; | |
| 13S/03E-19T76 | PRUNEDALE | 12/21/60 | C.F. DOUGHERTY | 10 | 184 | 244 | 252 | IRR; | |
| 13S/03E-19T77 | PRUNEDALE | 3/1/68 | C. F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM | |
| 13S/03E-20A01 | PRUNEDALE | | | 8 | 176 | 216 | 224 | DOM; | |
| 13S/03E-20A50 | PRUNEDALE | 12/13/85 | ASH & SONS | 6 | 400 | 480 | 485 | DOM; | |
| 13S/03E-20A51 | PRUNEDALE | 8/5/92 | ASH & SONS | 5 | 397 | 437 | 437 | DOM | |
| 13S/03E-20B01 | PRUNEDALE | 5/9/55 | C.F. DOUGHERTY | 8 | 100 | 152 | 160 | DOM; | DES; |
| 13S/03E-20B02 | PRUNEDALE | | | | | | | IRR; | |
| 13S/03E-20B03 | PRUNEDALE | | | 8 | | | 142 | DOM; | |
| 13S/03E-20B04 | PRUNEDALE | | | | | | 160 | DOM; | |
| 13S/03E-20B50 | PRUNEDALE | 12/22/88 | ASH & SONS | 5 | 200 | 240 | 244 | DOM; | |
| 13S/03E-20B51 | PRUNEDALE | 1/8/82 | ASH & SONS | 5 | 116 | 156 | 161 | DOM; | |
| 13S/03E-20B52 | PRUNEDALE | 4/30/87 | ASH & SONS | 5 | 320 | 365 | 365 | DOM; | |
| 13S/03E-20B53 | PRUNEDALE | 1/11/85 | ASH & SONS | 5 | 240 | 300 | 300 | DOM; | |
| 13S/03E-20B54 | PRUNEDALE | 8/24/89 | C.F. DOUGHERTY | 5 | 260 | 320 | 320 | DOM; | |
| 13S/03E-20B55 | PRUNEDALE | 9/18/87 | C.F. DOUGHERTY | 6 | 240 | 320 | 320 | DOM; | |
| 13S/03E-20B56 | PRUNEDALE | 1/31/92 | ASH & SONS | 5 | 280 | 320 | 320 | DOM; | |
| 13S/03E-20B57 | PRUNEDALE | 1/22/92 | ASH & SONS | | | | 80 | | DES; |
| 13S/03E-20C01 | PRUNEDALE | | | 6 | | | 65 | DOM; | |
| 13S/03E-20C50 | PRUNEDALE | 10/20/81 | C.F. DOUGHERTY | 8 | 178 | 218 | 224 | DOM; | |
| 13S/03E-20C51 | PRUNEDALE | 8/17/88 | ASH & SONS | 6 | 360 | 400 | 405 | DOM; | |
| 13S/03E-20C52 | PRUNEDALE | 5/16/88 | ASH & SONS | 8 | 320 | 440 | 450 | IND; | |
| 13S/03E-20C53 | PRUNEDALE | 5/12/88 | ASH & SONS | 8 | 320 | 440 | 500 | IND; | |
| 13S/03E-20D01 | PRUNEDALE | 7/16/57 | C.F. DOUGHERTY | 8 | 120 | 142 | 150 | DOM; | |
| 13S/03E-20D02 | PRUNEDALE | 3/4/55 | C.F. DOUGHERTY | | 128 | 160 | 168 | DOM; | |
| 13S/03E-20D50 | PRUNEDALE | 2/2/79 | C.F. DOUGHERTY | 8 | 180 | 220 | 228 | DOM; | |
| 13S/03E-20D51 | PRUNEDALE | 3/16/90 | ASH & SONS | 5 | 278 | 318 | 325 | IRR; | |
| 13S/03E-20D52 | PRUNEDALE | 8/2/89 | ASH & SONS | 5 | 260 | 300 | 305 | DOM; | |
| 13S/03E-20D53 | PRUNEDALE | 4/16/87 | ASH & SONS | 5 | 310 | 350 | 365 | DOM; | |
| 13S/03E-20D54 | PRUNEDALE | 1/20/77 | CLIFFORD PUMP & WELL | 6 | 130 | 155 | 175 | DOM/IRR | |
| 13S/03E-20D55 | PRUNEDALE | 10/21/67 | C.F. DOUGHERTY | 10 | 207 | 565 | 565 | DOM; | |
| 13S/03E-20E01 | PRUNEDALE | 9/6/49 | C.F. DOUGHERTY | 8 | 30 | 51 | 60 | DOM; | |
| 13S/03E-20E02 | PRUNEDALE | | | 8 | 94 | 136 | 142 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-20E50 | PRUNEDALE | 10/23/68 | C.F. DOUGHERTY | 12 | 300 | 500 | 500 | OTHER | DES; |
| 13S/03E-20E51 | PRUNEDALE | 8/11/82 | ASH & SONS | 6 | 320 | 380 | 400 | DOM; | |
| 13S/03E-20F50 | PRUNEDALE | 9/11/61 | C.F. DOUGHERTY | 8 | 232 | 272 | 280 | DOM; | |
| 13S/03E-20F51 | PRUNEDALE | 10/28/88 | ASH & SONS | 5 | 360 | 400 | 403 | DOM; | |
| 13S/03E-20F52 | PRUNEDALE | 12/6/60 | C.F. DOUGHERTY | 8 | 104 | 292 | 292 | DOM; | |
| 13S/03E-20G01 | PRUNEDALE | 12/1/60 | DUER | | 166 | 285 | 290 | DOM; | |
| 13S/03E-20G02 | PRUNEDALE | 7/18/86 | ASH & SONS | 5 | 340 | 380 | 383 | DOM; | |
| 13S/03E-20G50 | PRUNEDALE | 6/6/86 | ASH & SONS | 5 | 200 | 240 | 240 | DOM; | |
| 13S/03E-20G51 | PRUNEDALE | 8/24/50 | C.F. DOUGHERTY | 8 | 66 | 87 | 96 | DOM; | |
| 13S/03E-20G52 | PRUNEDALE | 1/19/80 | SALINAS PUMP CO | 12 | 216 | 504 | 505 | DOM; | |
| 13S/03E-20G53 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-20H01 | PRUNEDALE | 3/14/49 | C.F. DOUGHERTY | 8 | 51 | 72 | 81 | DOM; | |
| 13S/03E-20H02 | PRUNEDALE | | | | | | | DOM; | DES |
| 13S/03E-20J50 | PRUNEDALE | 7/21/89 | ASH & SONS | 5 | 396 | 456 | 467 | DOM; | |
| 13S/03E-20K50 | PRUNEDALE | 4/8/88 | ASH & SONS | 5 | 300 | 360 | 366 | DOM; | |
| 13S/03E-20L50 | PRUNEDALE | 8/9/67 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-20L51 | PRUNEDALE | 7/22/93 | DOUGHERTY PUMP & DRILLING | 6 | 290 | 390 | 390 | DOM | |
| 13S/03E-20L52 | PRUNEDALE | 4/17/81 | DOUGHERTY PUMP & DRILLING | 7 | 132 | 192 | 200 | DOM | DEEP |
| 13S/03E-20M01 | PRUNEDALE | | | 6 | | | 200 | DOM; | |
| 13S/03E-20M51 | PRUNEDALE | 9/2/88 | ASH & SONS | 8 | 400 | 520 | 524 | DOM; | |
| 13S/03E-20M52 | PRUNEDALE | 11/30/50 | C.F. DOUGHERTY | 8 | 144 | 165 | 174 | DOM; | |
| 13S/03E-20M53 | PRUNEDALE | 9/15/86 | ASH & SONS | 5 | 130 | 160 | 165 | DOM; | |
| 13S/03E-20M54 | PRUNEDALE | 1/4/90 | ASH & SONS | 5 | 160 | 200 | 205 | DOM; | |
| 13S/03E-20M55 | PRUNEDALE | 11/16/89 | DOUGHERTY PUMP & DRILLING | 5 | 180 | 240 | 245 | DOM; | |
| 13S/03E-20N50 | PRUNEDALE | 8/30/88 | ASH & SONS | 5 | 260 | 300 | 305 | DOM; | |
| 13S/03E-20N51 | PRUNEDALE | 2/4/52 | NUNES | 8 | 60 | 90 | 99 | DOM; | |
| 13S/03E-20P01 | PRUNEDALE | 7/8/55 | NUNES WELL | 8 | 148 | 164 | 192 | IRR; | |
| 13S/03E-20P50 | PRUNEDALE | 8/14/87 | ASH & SONS | 5 | 300 | 360 | 362 | DOM; | |
| 13S/03E-20P51 | PRUNEDALE | 3/8/88 | ASH & SONS | 5 | 260 | 300 | 310 | DOM; | |
| 13S/03E-20P52 | PRUNEDALE | 9/16/83 | ASH & SONS | 5 | 260 | 300 | 300 | DOM; | |
| 13S/03E-20Q01 | PRUNEDALE | 10/30/49 | C.F. DOUGHERTY | 8 | 115 | 136 | 145 | DOM; | |
| 13S/03E-20Q50 | PRUNEDALE | 7/11/86 | ASH & SONS | 5 | 320 | 360 | 365 | DOM; | |
| 13S/03E-20R50 | PRUNEDALE | 1/6/87 | ASH & SONS | 5 | 300 | 360 | 365 | DOM; | |
| 13S/03E-20R51 | PRUNEDALE | 6/10/93 | ASH & SONS | 5 | 320 | 360 | 360 | DOM | |
| 13S/03E-20T50 | PRUNEDALE | 1/1/51 | ALSOP & SON | | | | 102 | | |
| 13S/03E-20T51 | PRUNEDALE | 11/6/71 | MAGGIORA BROS | 8 | 160 | 180 | 185 | IND; | |
| 13S/03E-20T52 | PRUNEDALE | 8/16/72 | ASH & SONS | 7 | 120 | 156 | 160 | DOM; | |
| 13S/03E-20T53 | PRUNEDALE | 7/11/59 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-20T54 | PRUNEDALE | 10/6/61 | C.F. DOUGHERTY | 7 | 177 | 197 | 201 | DOM; | |
| 13S/03E-20T55 | PRUNEDALE | 4/27/79 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 13S/03E-20T56 | PRUNEDALE | 10/25/71 | C.F. DOUGHERTY | 8 | 164 | 264 | 272 | DOM; | |
| 13S/03E-20T57 | PRUNEDALE | 3/11/57 | C.F. DOUGHERTY | 8 | 28 | 68 | 76 | DOM; | |
| 13S/03E-20T58 | PRUNEDALE | 7/29/61 | C.F. DOUGHERTY | 8 | 36 | 76 | 84 | DOM; | |
| 13S/03E-20T59 | PRUNEDALE | 2/12/77 | ASH & SONS | 7 | 168 | 200 | 200 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-20T60 | PRUNEDALE | 12/22/56 | C.F. DOUGHERTY | 8 | 20 | 56 | 60 | DOM; | |
| 13S/03E-20T61 | PRUNEDALE | 1/22/60 | C.F. DOUGHERTY | 8 | 80 | 120 | 124 | DOM; | |
| 13S/03E-20T62 | PRUNEDALE | 3/8/62 | C.F. DOUGHERTY | 8 | 40 | 80 | 88 | DOM; | |
| 13S/03E-20T63 | PRUNEDALE | 6/25/60 | C.F. DOUGHERTY | 8 | 94 | 134 | 142 | DOM; | |
| 13S/03E-20T64 | PRUNEDALE | 5/2/61 | C.F. DOUGHERTY | 8 | 40 | 80 | 88 | DOM; | |
| 13S/03E-20T65 | PRUNEDALE | 6/26/61 | C.F. DOUGHERTY | 8 | 40 | 80 | 88 | DOM; | |
| 13S/03E-20T66 | PRUNEDALE | 7/4/53 | C.F. DOUGHERTY | 7 | 38 | 66 | 70 | DOM; | |
| 13S/03E-20T67 | PRUNEDALE | 2/26/73 | C.F. DOUGHERTY | 8 | 120 | 160 | 168 | DOM; | |
| 13S/03E-20T68 | PRUNEDALE | 6/23/64 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |
| 13S/03E-20T69 | PRUNEDALE | 2/17/65 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 13S/03E-20T70 | PRUNEDALE | 12/9/52 | C.F. DOUGHERTY | 8 | 30 | 60 | 69 | DOM; | |
| 13S/03E-20T71 | PRUNEDALE | 10/1/56 | NUNES | 8 | 48 | 84 | 92 | DOM; | |
| 13S/03E-20T72 | PRUNEDALE | 3/26/71 | ASH & SONS | 6 | 112 | 145 | 160 | | |
| 13S/03E-20T73 | PRUNEDALE | 3/12/79 | ASH & SONS | 7 | 259 | 291 | 291 | DOM; | |
| 13S/03E-20T74 | PRUNEDALE | 5/1/52 | C.F. DOUGHERTY | 8 | 132 | 162 | 171 | DOM; | |
| 13S/03E-20T75 | PRUNEDALE | 4/16/77 | ASH & SONS | 7 | 228 | 260 | 265 | DOM; | |
| 13S/03E-20T76 | PRUNEDALE | 3/20/71 | THE PUMP SHOP | 8 | 136 | 146 | 188 | DOM; | |
| 13S/03E-20T77 | PRUNEDALE | 3/27/76 | ASH & SONS | 7 | 172 | 204 | 204 | DOM; | |
| 13S/03E-20T78 | PRUNEDALE | 11/30/57 | C.F. DOUGHERTY | 8 | 28 | 68 | 76 | DOM; | |
| 13S/03E-20T79 | PRUNEDALE | 7/25/74 | ASH & SONS | 6 | 120 | 152 | 160 | DOM; | |
| 13S/03E-20T80 | PRUNEDALE | 10/13/61 | C.F. DOUGHERTY | 7 | 132 | 176 | 180 | DOM; | |
| 13S/03E-20T81 | PRUNEDALE | 12/29/67 | C.F. DOUGHERTY | 8 | 56 | 96 | 104 | DOM; | |
| 13S/03E-20T82 | PRUNEDALE | 2/9/52 | C.F. DOUGHERTY | 8 | 106 | 136 | 147 | DOM; | |
| 13S/03E-20T83 | PRUNEDALE | 10/5/56 | C.F. DOUGHERTY | 8 | 40 | 72 | 80 | IRR; | |
| 13S/03E-20T84 | PRUNEDALE | 1/27/60 | C.F. DOUGHERTY | 8 | 100 | 140 | 148 | DOM; | |
| 13S/03E-20T85 | PRUNEDALE | 5/17/73 | C.F. DOUGHERTY | 7 | 141 | 241 | 245 | DOM; | |
| 13S/03E-20T86 | PRUNEDALE | 8/13/65 | C.F. DOUGHERTY | 8 | 296 | 336 | 344 | DOM; | |
| 13S/03E-20T87 | PRUNEDALE | 9/12/57 | C.F. DOUGHERTY | 8 | | | 148 | DOM; | |
| 13S/03E-20T88 | PRUNEDALE | 7/1/68 | THE PUMP SHOP | | 84 | 124 | 128 | DOM; | |
| 13S/03E-20T90 | PRUNEDALE | 2/11/61 | C.F. DOUGHERTY | 8 | 28 | 68 | 76 | IRR; | |
| 13S/03E-20T91 | PRUNEDALE | 1/21/66 | C.F. DOUGHERTY | 8 | 88 | 128 | 136 | DOM; | |
| 13S/03E-20T92 | PRUNEDALE | 5/4/64 | C.F. DOUGHERTY | 8 | 80 | 252 | 260 | DOM; | |
| 13S/03E-20T94 | PRUNEDALE | 1/1/51 | ALSOP | | | | 102 | | |
| 13S/03E-21E50 | PRUNEDALE | 8/4/77 | ASH & SONS | 7 | 248 | 280 | 280 | DOM; | |
| 13S/03E-21F01 | PRUNEDALE | 6/23/49 | C.F. DOUGHERTY | 10 | 214 | 235 | 244 | DOM; | |
| 13S/03E-21J01 | PRUNEDALE | | | 8 | | | 300 | DOM; | |
| 13S/03E-21K50 | PRUNEDALE | 1/17/89 | ASH & SONS | 5 | 340 | 400 | 412 | DOM; | |
| 13S/03E-21K51 | PRUNEDALE | 4/3/50 | C.F. DOUGHERTY | 8 | 213 | 234 | 243 | DOM; | |
| 13S/03E-21K52 | PRUNEDALE | 1/12/88 | ASH & SONS | 5 | 280 | 320 | 325 | DOM; | |
| 13S/03E-21K53 | PRUNEDALE | 5/25/50 | C.F. DOUGHERTY | 8 | 264 | 285 | 294 | DOM; | |
| 13S/03E-21L50 | PRUNEDALE | 9/17/68 | C.F. DOUGHERTY | 7 | 304 | 400 | 410 | DOM; | |
| 13S/03E-21L51 | PRUNEDALE | 11/8/93 | DOUGHERTY PUMP & DRILLING | 5 | 240 | 360 | 360 | DOM | |
| 13S/03E-21N50 | PRUNEDALE | 9/20/73 | C.F. DOUGHERTY | 8 | 312 | 352 | 360 | DOM; | |
| 13S/03E-21P01 | PRUNEDALE | | | 8 | | | 300 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-21P50 | PRUNEDALE | 11/19/81 | C.F. DOUGHERTY | 8 | 268 | 308 | 316 | DOM; | |
| 13S/03E-21P51 | PRUNEDALE | 2/28/55 | C.F. DOUGHERTY | 8 | 239 | 271 | 317 | DOM; | |
| 13S/03E-21P52 | PRUNEDALE | | | | | | | DOM;MUN | |
| 13S/03E-21P53 | PRUNEDALE | 7/23/93 | ASH & SONS | 5 | 400 | 440 | 440 | DOM | |
| 13S/03E-21Q01 | PRUNEDALE | 6/6/79 | MAGGIORA BROS | 12 | 250 | 340 | 370 | DOM; | |
| 13S/03E-21Q02 | PRUNEDALE | | ASH & SONS | 7 | 498 | 563 | 563 | DOM; | |
| 13S/03E-21R01 | PRUNEDALE | 5/24/65 | | 12 | | | 305 | DOM; | |
| 13S/03E-21R50 | PRUNEDALE | 6/27/50 | C.F. DOUGHERTY | 8 | 105 | 126 | 135 | DOM; | |
| 13S/03E-21T50 | PRUNEDALE | 4/19/57 | C.F. DOUGHERTY | 10 | 56 | 100 | 108 | DOM; | |
| 13S/03E-21T51 | PRUNEDALE | 4/30/53 | C.F. DOUGHERTY | 8 | 120 | 171 | 177 | DOM; | |
| 13S/03E-21T52 | PRUNEDALE | 8/31/55 | C.F. DOUGHERTY | 8 | 20 | 52 | 60 | DOM; | |
| 13S/03E-21T53 | PRUNEDALE | 9/6/58 | C.F. DOUGHERTY | 10 | 40 | 192 | 200 | DOM; | |
| 13S/03E-21T54 | PRUNEDALE | 1/21/64 | C.F. DOUGHERTY | 8 | 210 | 268 | 272 | DOM; | |
| 13S/03E-21T55 | PRUNEDALE | 6/30/76 | ASH & SONS | 7 | 170 | 202 | 202 | DOM; | |
| 13S/03E-21T56 | PRUNEDALE | 8/17/64 | C.F. DOUGHERTY | 8 | 176 | 216 | 224 | DOM; | |
| 13S/03E-21T57 | PRUNEDALE | 8/14/52 | C.F. DOUGHERTY | 8 | 60 | 90 | 99 | DOM; | |
| 13S/03E-21T58 | PRUNEDALE | 6/19/54 | C.F. DOUGHERTY | 8 | 168 | 200 | 208 | DOM; | |
| 13S/03E-21T59 | PRUNEDALE | 3/7/55 | C.F. DOUGHERTY | 8 | 180 | 212 | 220 | DOM; | |
| 13S/03E-21T60 | PRUNEDALE | 8/5/86 | ASH & SONS | 5 | 370 | 450 | 460 | DOM; | |
| 13S/03E-21T61 | PRUNEDALE | 6/4/59 | C.F. DOUGHERTY | 8 | 132 | 192 | 240 | DOM; | |
| 13S/03E-21T62 | PRUNEDALE | 10/20/81 | ASH & SONS | 5 | 380 | 430 | 430 | DOM; | |
| 13S/03E-21T63 | PRUNEDALE | 2/12/65 | C.F. DOUGHERTY | 8 | 156 | 196 | 204 | DOM; | |
| 13S/03E-21T64 | PRUNEDALE | 5/11/59 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 13S/03E-21T65 | PRUNEDALE | 4/11/53 | C.F. DOUGHERTY | 8 | 186 | 216 | 225 | DOM; | |
| 13S/03E-21T66 | PRUNEDALE | 10/30/51 | C.F. DOUGHERTY | 8 | 99 | 120 | 129 | DOM; | |
| 13S/03E-21T67 | PRUNEDALE | 4/4/53 | C.F. DOUGHERTY | 8 | 125 | 155 | 164 | DOM; | |
| 13S/03E-21T68 | PRUNEDALE | 5/19/58 | C.F. DOUGHERTY | 8 | 136 | 176 | 188 | DOM; | |
| 13S/03E-21T69 | PRUNEDALE | 6/30/72 | C.F. DOUGHERTY | 8 | 260 | 300 | 308 | DOM; | |
| 13S/03E-21T70 | PRUNEDALE | 5/9/55 | C.F. DOUGHERTY | 8 | 100 | 152 | 160 | DOM; | |
| 13S/03E-22B50 | PRUNEDALE | 1/16/78 | CLIFFORD PUMP & WELL | 6 | 380 | 430 | 450 | DOM | |
| 13S/03E-22B51 | PRUNEDALE | 6/22/90 | ASH & SONS | 5 | 280 | 320 | 325 | DOM; | |
| 13S/03E-22B52 | PRUNEDALE | 12/22/76 | ASH & SONS | 7 | 328 | 360 | 360 | DOM; | |
| 13S/03E-22D50 | PRUNEDALE | 4/23/83 | ASH & SONS | 6 | 370 | 410 | 420 | DOM; | |
| 13S/03E-22D51 | PRUNEDALE | 11/4/81 | ASH & SONS | 6 | 360 | 410 | 415 | DOM; | |
| 13S/03E-22E01 | PRUNEDALE | | | 10 | | | 300 | DOM; | |
| 13S/03E-22E50 | PRUNEDALE | 1/31/94 | DOUGHERTY PUMP & DRILLING | 5 | 240 | 440 | 440 | DOM | |
| 13S/03E-22F01 | PRUNEDALE | 11/23/77 | CLIFFORD PUMP & WELL | 6 | 260 | 320 | 334 | DOM | |
| 13S/03E-22G50 | PRUNEDALE | 5/8/85 | ALSOP & SON | 5 | 110 | 380 | 400 | DOM; | |
| 13S/03E-22K50 | PRUNEDALE | 9/16/93 | ASH & SONS | 5 | 260 | 300 | 300 | DOM | |
| 13S/03E-22L01 | PRUNEDALE | 10/1/67 | C.F. DOUGHERTY | 8 | 148 | 308 | 320 | DOM; | |
| 13S/03E-22L50 | PRUNEDALE | 10/12/67 | C.F. DOUGHERTY | 8 | 148 | 308 | 320 | DOM; | |
| 13S/03E-22L51 | PRUNEDALE | 11/21/69 | C.F. DOUGHERTY | 8 | 165 | 276 | 284 | DOM; | |
| 13S/03E-22M50 | PRUNEDALE | 5/12/89 | ASH & SONS | 5 | 400 | 440 | 440 | DOM; | |
| 13S/03E-22N50 | PRUNEDALE | 1/25/68 | C.F. DOUGHERTY | 8 | 184 | 224 | 232 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-22N51 | PRUNEDALE | 12/2/70 | C.F. DOUGHERTY | 10 | 316 | 376 | 386 | DOM; | |
| 13S/03E-22N52 | PRUNEDALE | 10/26/68 | THE PUMP SHOP | | 260 | 280 | 284 | DOM; | |
| 13S/03E-22N53 | PRUNEDALE | 10/7/87 | ASH & SONS | 5 | 280 | 320 | 325 | DOM; | |
| 13S/03E-22N54 | PRUNEDALE | 10/14/89 | ASH & SONS | 5 | 320 | 360 | 360 | DOM; | |
| 13S/03E-22P01 | PRUNEDALE | 4/23/49 | C.F. DOUGHERTY | 8 | 126 | 147 | 156 | DOM; | |
| 13S/03E-22P50 | PRUNEDALE | 9/22/89 | ASH & SONS | 5 | 340 | 380 | 381 | DOM; | |
| 13S/03E-22P51 | PRUNEDALE | 9/28/88 | ASH & SONS | 5 | 297 | 337 | 342 | DOM; | |
| 13S/03E-22P52 | PRUNEDALE | 7/3/77 | ASH & SONS | 7 | 181 | 223 | 223 | DOM; | |
| 13S/03E-22P53 | PRUNEDALE | | ASH & SONS | | | | 210 | | DES |
| 13S/03E-22P54 | PRUNEDALE | 9/28/93 | ASH & SONS | 5 | 220 | 320 | 320 | DOM | |
| 13S/03E-22Q50 | PRUNEDALE | 10/28/86 | ASH & SONS | 5 | 305 | 345 | 350 | DOM; | |
| 13S/03E-22Q51 | PRUNEDALE | 5/24/91 | DOUGHERTY PUMP & DRILLING | 5 | 240 | 500 | 500 | DOM | |
| 13S/03E-22Q52 | PRUNEDALE | 1/17/91 | DOUGHERTY PUMP & DRILLING | 5 | 220 | 440 | 450 | DOM | |
| 13S/03E-22T50 | PRUNEDALE | 7/2/55 | C.F. DOUGHERTY | 8 | 117 | 225 | 229 | DOM; | |
| 13S/03E-22T51 | PRUNEDALE | 5/24/63 | C.F. DOUGHERTY | 8 | 100 | 140 | 144 | DOM; | |
| 13S/03E-22T52 | PRUNEDALE | 7/6/59 | C.F. DOUGHERTY | 8 | 156 | 196 | 204 | DOM; | |
| 13S/03E-22T53 | PRUNEDALE | 9/17/71 | C.F. DOUGHERTY | 8 | 264 | 304 | 312 | DOM; | |
| 13S/03E-22T54 | PRUNEDALE | 9/4/64 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 13S/03E-22T55 | PRUNEDALE | 7/15/67 | C.F. DOUGHERTY | 7 | 245 | 373 | 385 | DOM; | |
| 13S/03E-22T56 | PRUNEDALE | 9/7/71 | ASH & SONS | 6 | 296 | 336 | 336 | DOM; | |
| 13S/03E-22T57 | PRUNEDALE | 1/14/59 | C.F. DOUGHERTY | 8 | 88 | 128 | 136 | DOM; | |
| 13S/03E-22T58 | PRUNEDALE | 8/27/54 | DEATON | 6 | | | 135 | DOM; | |
| 13S/03E-22T59 | PRUNEDALE | 6/12/79 | SALINAS PUMP CO | 8 | 50 | 292 | 300 | DOM; | |
| 13S/03E-22T60 | PRUNEDALE | 12/4/64 | C.F. DOUGHERTY | 8 | 100 | 172 | 180 | DOM; | |
| 13S/03E-22T61 | PRUNEDALE | 9/12/59 | VALLEY PUMP | 8 | 154 | 194 | 194 | DOM; | |
| 13S/03E-22T62 | PRUNEDALE | 11/11/55 | C.F. DOUGHERTY | 8 | 236 | 268 | 276 | DOM; | |
| 13S/03E-22T63 | PRUNEDALE | 7/27/54 | C.F. DOUGHERTY | 10 | 109 | 161 | 168 | DOM; | |
| 13S/03E-22T64 | PRUNEDALE | 10/27/72 | C.F. DOUGHERTY | 7 | 260 | 360 | 368 | DOM; | |
| 13S/03E-22T65 | PRUNEDALE | 3/12/55 | C.F. DOUGHERTY | 8 | 144 | 176 | 184 | DOM; | |
| 13S/03E-22T66 | PRUNEDALE | 12/20/57 | C.F. DOUGHERTY | 8 | 140 | 180 | 188 | DOM; | |
| 13S/03E-22T67 | PRUNEDALE | 8/25/55 | C.F. DOUGHERTY | 8 | 140 | 168 | 176 | DOM; | |
| 13S/03E-22T68 | PRUNEDALE | 3/3/56 | C.F. DOUGHERTY | 8 | 68 | 100 | 108 | DOM; | |
| 13S/03E-22T69 | PRUNEDALE | 5/2/84 | ASH & SONS | 5 | 300 | 340 | 355 | DOM; | |
| 13S/03E-22T70 | PRUNEDALE | 3/29/57 | C.F. DOUGHERTY | 8 | 92 | 132 | 140 | DOM; | |
| 13S/03E-22T71 | PRUNEDALE | 8/16/62 | C.F. DOUGHERTY | 10 | 90 | 192 | 200 | DOM; | |
| 13S/03E-22T72 | PRUNEDALE | 11/3/54 | C.F. DOUGHERTY | 8 | 220 | 252 | 260 | DOM; | |
| 13S/03E-22T73 | PRUNEDALE | 6/19/63 | C.F. DOUGHERTY | 8 | 84 | 124 | 132 | DOM; | |
| 13S/03E-22T74 | PRUNEDALE | 11/18/77 | CLIFFORD PUMP & WELL | 6 | 300 | 360 | 365 | DOM | |
| 13S/03E-22T75 | PRUNEDALE | 12/22/66 | C.F. DOUGHERTY | 7 | 251 | 347 | 355 | DOM; | |
| 13S/03E-22T76 | PRUNEDALE | 4/22/61 | C.F. DOUGHERTY | 8 | 108 | 148 | 156 | DOM; | |
| 13S/03E-22T77 | PRUNEDALE | 12/1/79 | ALSOP & SON | 5 | 280 | 400 | 400 | DOM; | |
| 13S/03E-22T78 | PRUNEDALE | 1/7/83 | ASH & SONS | 5 | 300 | 360 | 365 | DOM; | |
| 13S/03E-22T79 | PRUNEDALE | 12/3/59 | C.F. DOUGHERTY | 8 | 142 | 330 | 340 | DOM; | |
| 13S/03E-22T80 | PRUNEDALE | 3/25/76 | C.F. DOUGHERTY | 7 | 116 | 176 | 184 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-22T81 | PRUNEDALE | 11/1/56 | C.F. DOUGHERTY | 8 | 60 | 169 | 172 | DOM; | |
| 13S/03E-22T82 | PRUNEDALE | 8/25/60 | C.F. DOUGHERTY | 7 | 100 | 142 | 146 | DOM; | |
| 13S/03E-23D52 | PRUNEDALE | 9/8/92 | HARDING LAWSON | 4 | 7 | 22 | 22 | MON | |
| 13S/03E-23D53 | PRUNEDALE | 8/27/92 | HARDING LAWSON | 4 | 7 | 22 | 22 | MON | |
| 13S/03E-23F01 | PRUNEDALE | | | | | | 300 | DOM; | |
| 13S/03E-23F50 | PRUNEDALE | 6/15/82 | ASH & SONS | 5 | 413 | 463 | 470 | DOM; | |
| 13S/03E-23M50 | PRUNEDALE | 5/22/84 | ASH & SONS | 5 | 328 | 368 | 424 | DOM; | |
| 13S/03E-23P50 | PRUNEDALE | 5/10/84 | ASH & SONS | 5 | 300 | 340 | 340 | DOM; | |
| 13S/03E-23T50 | PRUNEDALE | 10/5/90 | ASH & SONS | 5 | 50 | 560 | 565 | IND; | |
| 13S/03E-23T51 | PRUNEDALE | 2/27/87 | ALL TERRAIN | 5 | 57 | 75 | 81 | MON | |
| 13S/03E-23T52 | PRUNEDALE | | ALL TERRAIN | 2 | 44 | 60 | 61 | MON | |
| 13S/03E-23T53 | PRUNEDALE | 2/20/87 | ALL TERRAIN | 2 | 58 | 75 | 76 | MON | |
| 13S/03E-23T54 | PRUNEDALE | 2/25/87 | ALL TERRAIN | 4 | 16 | 36 | 37 | MON | |
| 13S/03E-23T55 | PRUNEDALE | 3/10/87 | ALL TERRAIN | 4 | 16 | 36 | 36 | MON | |
| 13S/03E-23T56 | PRUNEDALE | 4/9/87 | ALL TERRAIN | 2 | 10 | 24 | 26 | MON | |
| 13S/03E-23T57 | PRUNEDALE | 4/9/87 | ALL TERRAIN | 2 | 30 | 45 | 46 | MON | |
| 13S/03E-23T58 | PRUNEDALE | 11/4/86 | ALL TERRAIN | 2 | 25 | 45 | 46 | MON | |
| 13S/03E-23T59 | PRUNEDALE | 5/5/75 | ASH & SONS | 6 | 169 | 205 | 205 | DOM; | |
| 13S/03E-23T60 | PRUNEDALE | 10/6/62 | VALLEY PUMP | 8 | 400 | 500 | 528 | IRR; | |
| 13S/03E-23T61 | PRUNEDALE | 4/10/87 | ALL TERRAIN | 2 | 28 | 48 | 50 | MON | |
| 13S/03E-23T62 | PRUNEDALE | 2/20/87 | ALL TERRAIN | 2 | 22 | 42 | 42 | MON | |
| 13S/03E-23T63 | PRUNEDALE | 11/7/86 | ALL TERRAIN | 2 | 20 | 40 | 41 | MON | |
| 13S/03E-23T64 | PRUNEDALE | 11/5/86 | ALL TERRAIN | 2 | 45 | 64 | 66 | MON | |
| 13S/03E-23T65 | PRUNEDALE | 11/10/86 | ALL TERRAIN | 2 | 25 | 45 | 46 | MON | |
| 13S/03E-23T66 | PRUNEDALE | 2/19/87 | ALL TERRAIN | 4 | 16 | 36 | 40 | MON | |
| 13S/03E-23T67 | PRUNEDALE | 3/4/87 | ALL TERRAIN | 6 | 23 | 53 | 60 | MON | |
| 13S/03E-23T68 | PRUNEDALE | 4/7/87 | ALL TERRAIN | 2 | 25 | 39 | 40 | MON | |
| 13S/03E-23T69 | PRUNEDALE | 8/10/72 | C.F. DOUGHERTY | 10 | 336 | 376 | 405 | DOM; | |
| 13S/03E-23T70 | PRUNEDALE | 8/10/66 | VALLEY PUMP | 8 | 100 | 400 | 400 | DOM; | |
| 13S/03E-23T71 | PRUNEDALE | 9/11/86 | MAGGIORA BROS | 2 | 50 | 65 | 66 | MON | |
| 13S/03E-23T72 | PRUNEDALE | 4/10/87 | ALL TERRAIN | 2 | 67 | 84 | 85 | MON | |
| 13S/03E-23T73 | PRUNEDALE | 11/11/86 | ALL TERRAIN | 2 | 20 | 35 | 36 | MON | |
| 13S/03E-23T74 | PRUNEDALE | 11/6/86 | ALL TERRAIN | 2 | 48 | 68 | 70 | MON | |
| 13S/03E-23T75 | PRUNEDALE | 10/24/78 | MAGGIORA BROS | | | | 560 | TEST WELL | |
| 13S/03E-23T76 | PRUNEDALE | 10/21/78 | MAGGIORA BROS | 5 | 100 | 320 | 400 | DOM; | |
| 13S/03E-24T50 | PRUNEDALE | 1/15/60 | C.F. DOUGHERTY | 8 | 240 | 280 | 288 | ? | |
| 13S/03E-24T51 | PRUNEDALE | 11/27/53 | C.F. DOUGHERTY | 8 | 157 | 201 | 205 | DOM; | |
| 13S/03E-24T52 | PRUNEDALE | 4/20/56 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 13S/03E-24T53 | PRUNEDALE | 10/17/53 | C.F. DOUGHERTY | 8 | 212 | 244 | 252 | DOM; | |
| 13S/03E-24T54 | PRUNEDALE | 10/8/62 | WESTERN DRILLING | 12 | 205 | 552 | 673 | IRR; | |
| 13S/03E-24T55 | PRUNEDALE | 10/7/92 | ASH & SONS | 5 | 250 | 290 | 290 | DOM; | |
| 13S/03E-25B50 | PRUNEDALE | 11/11/83 | SALINAS PUMP CO | 5 | 55 | 170 | 170 | DOM;IRR; | |
| 13S/03E-25C50 | PRUNEDALE | 11/4/83 | SALINAS PUMP CO | 5 | 35 | 115 | 115 | DOM;IRR; | |
| 13S/03E-25K50 | PRUNEDALE | 5/4/88 | ASH & SONS | 5 | 200 | 240 | 240 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-25T53 | S V GENERAL | 10/20/76 | CALIF LAND & CATTLE | 6 | | | 50 | | |
| 13S/03E-25T54 | PRUNEDALE | 7/24/76 | CALIF LAND & CATTLE | 14 | 14 | 48 | 48 | IRR; | |
| 13S/03E-25T55 | PRUNEDALE | 9/15/76 | CALIF LAND & CATTLE | 12 | 40 | 93 | 93 | DOM; | |
| 13S/03E-25T57 | PRUNEDALE | 3/1/75 | SALINAS PUMP CO | 16 | 24 | 54 | 55 | DOM; | |
| 13S/03E-25T58 | PRUNEDALE | 4/2/75 | SALINAS PUMP CO | 16 | 20 | 80 | 96 | IRR; | |
| 13S/03E-25T60 | S V GENERAL | 11/4/76 | CALIF LAND & CATTLE | 9 | | | 60 | | |
| 13S/03E-25T62 | PRUNEDALE | 5/29/66 | VALLEY PUMP | 10 | 24 | 108 | 112 | DOM;IRR; | |
| 13S/03E-26B50 | PRUNEDALE | 4/14/88 | ASH & SONS | 5 | 450 | 500 | 505 | DOM; | |
| 13S/03E-26K01 | PRUNEDALE | 10/30/80 | SALINAS PUMP CO | 8 | 80 | 240 | 250 | DOM; | |
| 13S/03E-26K50 | PRUNEDALE | | ALSOP & SON | | | | 116 | DOM; | |
| 13S/03E-26Q50 | PRUNEDALE | 10/22/87 | MAGGIORA BROS | | | | 427 | TEST WELL | |
| 13S/03E-26T50 | PRUNEDALE | 3/14/72 | ASH & SONS | 6 | 310 | 336 | 345 | DOM; | |
| 13S/03E-26T51 | PRUNEDALE | 10/10/66 | C.F. DOUGHERTY | 14 | 20 | 44 | 48 | DOM; | |
| 13S/03E-26T52 | PRUNEDALE | 7/2/76 | CHAPPELL PUMP & SUPPLY | 7 | 40 | 70 | 135 | DOM | |
| 13S/03E-26T53 | PRUNEDALE | 6/7/76 | CALIF LAND & CATTLE | 16 | 60 | 200 | 209 | | |
| 13S/03E-26T54 | PRUNEDALE | 5/29/67 | ALSOP | 8 | 240 | 380 | 399 | DOM; | |
| 13S/03E-26T57 | PRUNEDALE | 5/9/75 | CALIF LAND & CATTLE | 14 | 25 | 80 | 87 | IRR; | |
| 13S/03E-27D01 | PRUNEDALE | 11/11/55 | C.F. DOUGHERTY | 8 | 236 | 268 | 276 | DOM; | |
| 13S/03E-27D50 | PRUNEDALE | 11/16/88 | ASH & SONS | 6 | 360 | 420 | 425 | DOM; | |
| 13S/03E-27T50 | PRUNEDALE | 1/24/75 | C.F. DOUGHERTY | 7 | 320 | 404 | 412 | DOM; | |
| 13S/03E-28B01 | PRUNEDALE | | | 6 | 300 | 0 | 345 | DOM; | |
| 13S/03E-28C01 | PRUNEDALE | 11/30/79 | | 8 | | | 158 | DOM; | |
| 13S/03E-28D50 | PRUNEDALE | 7/9/85 | ASH & SONS | 5 | 380 | 420 | 425 | DOM; | |
| 13S/03E-28T50 | PRUNEDALE | 6/15/72 | ASH & SONS | 6 | 134 | 170 | 176 | DOM; | |
| 13S/03E-28T51 | PRUNEDALE | 7/21/76 | C.F. DOUGHERTY | 8 | 152 | 192 | 200 | DOM; | |
| 13S/03E-28T52 | PRUNEDALE | 11/5/53 | C.F. DOUGHERTY | 8 | 272 | 304 | 320 | DOM; | |
| 13S/03E-28T53 | PRUNEDALE | 7/12/74 | ASH & SONS | 6 | 174 | 202 | 210 | DOM; | |
| 13S/03E-28T54 | PRUNEDALE | 6/15/54 | C.F. DOUGHERTY | 8 | 40 | 72 | 80 | DOM; | |
| 13S/03E-28T55 | PRUNEDALE | 9/7/93 | WEST COAST DRILLING | 8 | 240 | 546 | 550 | IRR | |
| 13S/03E-29A01 | PRUNEDALE | 9/6/58 | C.F. DOUGHERTY | 10 | 40 | 192 | 200 | DOM; | |
| 13S/03E-29A02 | PRUNEDALE | 8/8/62 | C.F. DOUGHERTY | 10 | 90 | 192 | 200 | DOM; | |
| 13S/03E-29A50 | PRUNEDALE | 6/19/78 | CHAPPELL PUMP & SUPPLY | 7 | 170 | 350 | 350 | DOM | |
| 13S/03E-29B01 | PRUNEDALE | 6/27/49 | C.F. DOUGHERTY | 8 | 102 | 123 | 132 | | |
| 13S/03E-29B02 | PRUNEDALE | 8/25/49 | C.F. DOUGHERTY | 8 | 78 | 108 | 108 | | |
| 13S/03E-29B03 | PRUNEDALE | 3/9/61 | DOUGHERTY PUMP & DRILLING | 8 | 115 | 262 | 270 | DOM; | |
| 13S/03E-29B04 | PRUNEDALE | | | 8 | | | 210 | DOM; | |
| 13S/03E-29B50 | PRUNEDALE | 10/2/90 | ASH & SONS | 5 | 160 | 200 | 205 | DOM; | |
| 13S/03E-29B51 | PRUNEDALE | 5/20/88 | ASH & SONS | 5 | 260 | 300 | 303 | DOM; | |
| 13S/03E-29B52 | PRUNEDALE | 5/31/73 | ASH & SONS | 7 | 144 | 180 | 190 | DOM; | |
| 13S/03E-29B53 | PRUNEDALE | 1/24/86 | ASH & SONS | 5 | 200 | 260 | 263 | DOM; | |
| 13S/03E-29B54 | PRUNEDALE | 5/18/88 | ASH & SONS | 5 | 260 | 300 | 303 | DOM; | |
| 13S/03E-29B55 | PRUNEDALE | 7/29/86 | C.F. DOUGHERTY | 6 | 260 | 320 | 330 | DOM; | |
| 13S/03E-29B56 | PRUNEDALE | 12/20/90 | C.F. DOUGHERTY | 5 | 340 | 400 | 400 | DOM; | |
| 13S/03E-29B57 | PRUNEDALE | 1/19/88 | ASH & SONS | 5 | 260 | 300 | 303 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-29B58 | PRUNEDALE | 5/31/62 | C.F. DOUGHERTY | 8 | 148 | 188 | 200 | DOM; | |
| 13S/03E-29C01 | PRUNEDALE | | | 8 | | | 250 | DOM; | |
| 13S/03E-29C02 | PRUNEDALE | | | 8 | | | | DOM; | |
| 13S/03E-29C03 | PRUNEDALE | | | | | | | DOM; | |
| 13S/03E-29C50 | PRUNEDALE | 5/17/82 | ASH & SONS | 5 | 180 | 220 | 225 | DOM; | |
| 13S/03E-29C51 | PRUNEDALE | 8/22/85 | ASH & SONS | 5 | 310 | 350 | 360 | DOM; | |
| 13S/03E-29C52 | PRUNEDALE | 3/11/92 | ASH & SONS | 6 | 260 | 300 | 300 | DOM; | |
| 13S/03E-29D01 | PRUNEDALE | | | 8 | | | 110 | DOM; | |
| 13S/03E-29D50 | PRUNEDALE | 12/29/89 | ASH & SONS | 5 | 148 | 188 | 190 | DOM; | DES; |
| 13S/03E-29D51 | PRUNEDALE | 2/24/89 | ASH & SONS | 6 | 300 | 340 | 350 | DOM; | |
| 13S/03E-29D52 | PRUNEDALE | 10/10/54 | NUNES | 8 | | | 170 | DOM; | |
| 13S/03E-29D53 | PRUNEDALE | 9/19/83 | ASH & SONS | 5 | 100 | 120 | 100 | DOM; | |
| 13S/03E-29D54 | PRUNEDALE | 11/5/69 | ASH & SONS | 6 | 200 | 240 | 252 | DOM; | |
| 13S/03E-29D55 | PRUNEDALE | 2/26/92 | ASH & SONS | 5 | 157 | 197 | 197 | DOM; | |
| 13S/03E-29D56 | PRUNEDALE | 9/22/93 | ASH & SONS | 8 | 360 | 500 | 500 | IRR | |
| 13S/03E-29D57 | PRUNEDALE | 2/15/91 | DOUGHERTY PUMP & DRILLING | 5 | 220 | 280 | 280 | DOM | |
| 13S/03E-29E01 | PRUNEDALE | | | 6 | | | 108 | DOM | DESTROYED |
| 13S/03E-29E02 | PRUNEDALE | | | 8 | | | 182 | DOM; | |
| 13S/03E-29E50 | PRUNEDALE | 1/19/79 | C.F. DOUGHERTY | 8 | 192 | 232 | 240 | DOM; | |
| 13S/03E-29E51 | PRUNEDALE | 10/17/84 | ASH & SONS | 5 | 140 | 180 | 190 | DOM; | |
| 13S/03E-29E52 | PRUNEDALE | 5/5/79 | CHAPPELL PUMP & SUPPLY | 6 | 100 | 175 | 175 | DOM | |
| 13S/03E-29E53 | PRUNEDALE | | DOUGHERTY PUMP & DRILLING | | | | 117 | | DES |
| 13S/03E-29E54 | PRUNEDALE | 9/27/91 | ASH & SONS | 5 | 276 | 316 | 320 | DOM | |
| 13S/03E-29F01 | PRUNEDALE | | | 12 | | | 210 | DOM; | |
| 13S/03E-29F02 | PRUNEDALE | 10/25/77 | C.F. DOUGHERTY | 8 | | | 111 | DOM; | |
| 13S/03E-29F03 | PRUNEDALE | 11/1/37 | C.F. DOUGHERTY | 8 | 70 | 0 | 108 | DOM; | |
| 13S/03E-29F04 | PRUNEDALE | 5/9/80 | ALSOP & SON | 7 | 140 | 220 | 220 | DOM; | |
| 13S/03E-29F50 | PRUNEDALE | 6/30/51 | C.F. DOUGHERTY | 8 | 66 | 87 | 96 | DOM; | |
| 13S/03E-29F51 | PRUNEDALE | 9/25/92 | DOUGHERTY PUMP & DRILLING | 8 | 260 | 400 | 400 | DOM | |
| 13S/03E-29G01 | PRUNEDALE | 8/25/49 | C.F. DOUGHERTY | 8 | 78 | 108 | 108 | DOM; | |
| 13S/03E-29G02 | PRUNEDALE | 6/12/54 | C.F. DOUGHERTY | 8 | 40 | 72 | 80 | DOM; | |
| 13S/03E-29G03 | PRUNEDALE | 9/12/59 | C.F. DOUGHERTY | 10 | 72 | 112 | 120 | DOM; | |
| 13S/03E-29G04 | PRUNEDALE | | | 8 | | | 140 | DOM; | |
| 13S/03E-29G50 | PRUNEDALE | 8/25/92 | ASH & SONS | 5 | 200 | 240 | 240 | DOM | |
| 13S/03E-29H01 | PRUNEDALE | 4/25/72 | ASH & SONS | 6 | 200 | 236 | 240 | DOM; | |
| 13S/03E-29H50 | PRUNEDALE | 6/13/91 | ASH & SONS | 8 | | | 172 | | DES |
| 13S/03E-29J01 | PRUNEDALE | 12/14/77 | DOUGHERTY PUMP & DRILLING | 8 | 224 | 284 | 292 | DOM; | |
| 13S/03E-29K01 | PRUNEDALE | 11/29/77 | C.F. DOUGHERTY | 10 | 128 | 327 | 335 | DOM; | |
| 13S/03E-29K50 | PRUNEDALE | 5/10/85 | ASH & SONS | 6 | 195 | 235 | 240 | DOM; | |
| 13S/03E-29L01 | PRUNEDALE | | | 10 | 145 | 160 | 163 | DOM; | |
| 13S/03E-29L50 | PRUNEDALE | 5/8/87 | ASH & SONS | 6 | 200 | 240 | 245 | DOM; | |
| 13S/03E-29L51 | PRUNEDALE | 6/8/78 | C.F. DOUGHERTY | 8 | 204 | 244 | 252 | DOM; | |
| 13S/03E-29L52 | PRUNEDALE | 10/16/93 | SALINAS PUMP CO | 5 | 200 | 320 | 320 | DOM | |
| 13S/03E-29M01 | PRUNEDALE | 7/11/59 | C.F. DOUGHERTY | 8 | 32 | 72 | 80 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-29M50 | PRUNEDALE | 6/23/51 | C.F. DOUGHERTY | 8 | 66 | 87 | 96 | DOM; | |
| 13S/03E-29M51 | PRUNEDALE | 10/22/72 | ASH & SONS | 7 | 120 | 156 | 156 | DOM; | |
| 13S/03E-29N50 | PRUNEDALE | 3/1/89 | ASH & SONS | 8 | 220 | 300 | 324 | IRR | |
| 13S/03E-29P01 | PRUNEDALE | 1/1/54 | | 10 | 67 | 117 | 125 | DOM; | |
| 13S/03E-29P50 | PRUNEDALE | 10/23/84 | ASH & SONS | 5 | 240 | 300 | 305 | DOM; | |
| 13S/03E-29P51 | PRUNEDALE | 2/2/51 | C.F. DOUGHERTY | 8 | 147 | 168 | 177 | DOM; | |
| 13S/03E-29P52 | PRUNEDALE | 7/10/79 | ASH & SONS | 7 | 219 | 251 | 262 | DOM; | |
| 13S/03E-29P53 | PRUNEDALE | 6/24/71 | C.F. DOUGHERTY | 8 | 80 | 128 | 136 | DOM; | |
| 13S/03E-29P54 | PRUNEDALE | 3/9/92 | ASH & SONS | 5 | 140 | 180 | 180 | DOM; | |
| 13S/03E-29P55 | PRUNEDALE | 3/10/92 | ASH & SONS | | | | | | DES; |
| 13S/03E-29P56 | PRUNEDALE | 6/1/93 | SALINAS PUMP CO | 6 | 100 | 320 | 320 | DOM | |
| 13S/03E-29T50 | PRUNEDALE | 7/3/76 | ASH & SONS | 7 | 138 | 170 | 170 | DOM; | |
| 13S/03E-29T51 | PRUNEDALE | 3/5/64 | C.F. DOUGHERTY | 8 | 88 | 128 | 136 | DOM; | |
| 13S/03E-29T52 | PRUNEDALE | 4/15/69 | ASH & SONS | 6 | 140 | 172 | 180 | DOM; | |
| 13S/03E-29T53 | PRUNEDALE | 11/11/75 | C.F. DOUGHERTY | 12 | 358 | 438 | 448 | IRR; | |
| 13S/03E-29T54 | PRUNEDALE | 2/5/53 | C.F. DOUGHERTY | 8 | 72 | 102 | 111 | DOM; | |
| 13S/03E-29T55 | PRUNEDALE | 5/3/77 | ASH & SONS | 7 | 148 | 180 | 180 | DOM; | |
| 13S/03E-29T56 | PRUNEDALE | 7/2/76 | C.F. DOUGHERTY | 8 | 132 | 212 | 220 | DOM; | |
| 13S/03E-29T57 | PRUNEDALE | 2/11/72 | CLIFFORD PUMP & WELL | 9 | 85 | 125 | 125 | DOM | |
| 13S/03E-29T58 | PRUNEDALE | 2/4/77 | CLIFFORD PUMP & WELL | 6 | 150 | 180 | 207 | DOM | |
| 13S/03E-29T59 | PRUNEDALE | 8/29/75 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 13S/03E-29T60 | PRUNEDALE | 6/9/71 | C.F. DOUGHERTY | 8 | 132 | 172 | 180 | DOM; | |
| 13S/03E-29T61 | PRUNEDALE | 11/21/74 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 13S/03E-29T62 | PRUNEDALE | 2/9/77 | ASH & SONS | 7 | 120 | 152 | 160 | DOM; | |
| 13S/03E-29T63 | PRUNEDALE | 6/18/54 | C.F. DOUGHERTY | 8 | 24 | 44 | 52 | DOM; | |
| 13S/03E-29T64 | PRUNEDALE | 9/11/75 | C.F. DOUGHERTY | 8 | 160 | 200 | 208 | DOM; | |
| 13S/03E-29T65 | PRUNEDALE | 6/18/54 | C.F. DOUGHERTY | 8 | 32 | 52 | 60 | DOM; | |
| 13S/03E-29T66 | PRUNEDALE | 6/15/71 | C.F. DOUGHERTY | 8 | 68 | 108 | 116 | DOM; | DES |
| 13S/03E-29T67 | PRUNEDALE | 12/13/59 | C.F. DOUGHERTY | 8 | 112 | 152 | 160 | DOM; | |
| 13S/03E-29T68 | PRUNEDALE | 5/21/54 | C.F. DOUGHERTY | 8 | 40 | 72 | 80 | DOM; | |
| 13S/03E-29T69 | PRUNEDALE | 2/26/72 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | DOM; | |
| 13S/03E-29T70 | PRUNEDALE | 5/29/74 | ASH & SONS | 7 | 134 | 155 | 160 | DOM; | |
| 13S/03E-29T71 | PRUNEDALE | 2/3/76 | ASH & SONS | 7 | 128 | 160 | 160 | DOM; | |
| 13S/03E-29T72 | PRUNEDALE | 8/6/60 | C.F. DOUGHERTY | 8 | 145 | 262 | 288 | DOM; | |
| 13S/03E-29T73 | PRUNEDALE | 7/19/74 | C.F. DOUGHERTY | 7 | 200 | 260 | 270 | DOM; | |
| 13S/03E-29T74 | PRUNEDALE | 3/2/72 | C.F. DOUGHERTY | 8 | 172 | 212 | 220 | DOM; | |
| 13S/03E-29T75 | PRUNEDALE | 8/20/63 | C.F. DOUGHERTY | 8 | 56 | 96 | 104 | DOM; | |
| 13S/03E-29T76 | PRUNEDALE | 12/24/84 | MELVILLE & SON | 6 | 200 | 300 | 320 | DOM; | |
| 13S/03E-29T77 | PRUNEDALE | 10/12/83 | ROBINETT & SONS | 5 | 165 | 265 | 265 | DOM; | |
| 13S/03E-30A01 | PRUNEDALE | 12/17/76 | CHAPPELL PUMP & SUPPLY | 9 | 200 | 315 | 320 | DOM; | |
| 13S/03E-30A50 | PRUNEDALE | 7/25/85 | ASH & SONS | 5 | 140 | 160 | 163 | DOM; | |
| 13S/03E-30A51 | PRUNEDALE | 11/24/82 | ASH & SONS | 5 | 140 | 180 | 180 | DOM; | |
| 13S/03E-30A52 | PRUNEDALE | 7/15/92 | EATON DRILLING | 16 | 320 | 700 | 700 | IRR | |
| 13S/03E-30B50 | PRUNEDALE | 5/18/78 | C.F. DOUGHERTY | 8 | 252 | 292 | 300 | DOM; | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-30D50 | PRUNEDALE | 1/17/89 | ASH & SONS | 6 | 320 | 360 | 370 | DOM; | |
| 13S/03E-30D51 | PRUNEDALE | 2/18/92 | EATON DRILLING | 16 | 605 | 705 | 705 | IRR; | |
| 13S/03E-30G01 | PRUNEDALE | 7/9/81 | ASH & SONS | 10 | 305 | 365 | 365 | DOM; | |
| 13S/03E-30H01 | PRUNEDALE | | | 10 | 220 | 272 | 280 | DOM; | |
| 13S/03E-30H02 | PRUNEDALE | 7/30/65 | C.F. DOUGHERTY | 10 | 200 | 412 | 420 | DOM; | |
| 13S/03E-30H50 | PRUNEDALE | 9/28/89 | ASH & SONS | 6 | 300 | 360 | 365 | DOM; | |
| 13S/03E-30H51 | PRUNEDALE | 7/24/87 | ASH & SONS | 6 | 360 | 400 | 425 | DOM; | |
| 13S/03E-30L01 | PRUNEDALE | 1/1/60 | WALKER | 12 | 220 | 312 | 328 | DOM; | |
| 13S/03E-30M50 | PRUNEDALE | 7/3/79 | ASH & SONS | 7 | 277 | 317 | 317 | DOM; | |
| 13S/03E-30P01 | PRUNEDALE | | | | | | 703 | IRR; | |
| 13S/03E-30T50 | PRUNEDALE | 10/17/52 | C.F. DOUGHERTY | 8 | 201 | 231 | 240 | DOM; | |
| 13S/03E-30T51 | PRUNEDALE | 11/15/79 | ASH & SONS | 9 | 360 | 400 | 400 | DOM; | |
| 13S/03E-30T52 | PRUNEDALE | 7/7/53 | C.F. DOUGHERTY | 8 | 41 | 71 | 70 | DOM; | |
| 13S/03E-30T53 | PRUNEDALE | 10/9/64 | C.F. DOUGHERTY | 8 | 40 | 80 | 88 | DOM; | |
| 13S/03E-30T54 | PRUNEDALE | 10/23/58 | C.F. DOUGHERTY | 8 | 60 | 100 | 108 | DOM; | |
| 13S/03E-30T55 | PRUNEDALE | 5/27/83 | ASH & SONS | 5 | 200 | 240 | 240 | DOM; | |
| 13S/03E-30T56 | PRUNEDALE | 4/24/74 | ASH & SONS | 7 | 170 | 204 | 204 | DOM | |
| 13S/03E-30T57 | PRUNEDALE | 8/20/73 | ROBINETT & SONS | 8 | 249 | 309 | 309 | DOM; | |
| 13S/03E-30T58 | PRUNEDALE | 11/15/58 | C.F. DOUGHERTY | 8 | 186 | 216 | 218 | DOM; | |
| 13S/03E-30T59 | PRUNEDALE | 8/24/65 | C.F. DOUGHERTY | 10 | 145 | 206 | 252 | DOM; | |
| 13S/03E-30T60 | PRUNEDALE | 7/30/65 | C.F. DOUGHERTY | 10 | 352 | 412 | 420 | DOM; | |
| 13S/03E-30T61 | PRUNEDALE | 7/15/65 | C.F. DOUGHERTY | 10 | 352 | 412 | 420 | MUN; | |
| 13S/03E-30T62 | PRUNEDALE | 12/27/74 | MAGGIORA BROS | 8 | 380 | 410 | 415 | DOM;IRR; | |
| 13S/03E-30T63 | PRUNEDALE | 8/9/89 | MAGGIORA BROS | | | | 820 | TEST; | |
| 13S/03E-30T64 | PRUNEDALE | 10/14/93 | LANDINO CONSTRUCTION | 10 | 300 | 400 | 400 | DOM;IRR | |
| 13S/03E-31A50 | PRUNEDALE | 12/16/72 | ASH & SONS | 7 | 200 | 236 | 236 | DOM | |
| 13S/03E-31J01 | PRUNEDALE | 7/12/78 | SALINAS PUMP CO | | 254 | 566 | 556 | DOM; | |
| 13S/03E-32B50 | PRUNEDALE | 7/6/68 | VALLEY PUMP | 8 | 10 | 40 | 40 | IRR; | |
| 13S/03E-32F02 | PRUNEDALE | 5/11/49 | C.F. DOUGHERTY | 8 | 42 | 63 | 72 | DOM; | |
| 13S/03E-32J50 | PRUNEDALE | 2/16/83 | ASH & SONS | 5 | 164 | 204 | 204 | DOM; | |
| 13S/03E-32K01 | PRUNEDALE | | | | 228 | 268 | 276 | DOM; | |
| 13S/03E-32P01 | PRUNEDALE | | | | | | 284 | DOM; | |
| 13S/03E-35G50 | PAJARO-SPRINGFIELD | 10/5/92 | CHAPPELL PUMP & SUPPLY | 10 | 200 | 340 | 350 | IRR | |
| 13S/03E-80T50 | PRUNEDALE | 6/17/61 | C.F. DOUGHERTY | 8 | 104 | 144 | 152 | DOM; | |
| 13S/03E-80T51 | PRUNEDALE | 7/20/70 | C.F. DOUGHERTY | 8 | 228 | 268 | 276 | DOM; | |
| 13S/03E-80T52 | PRUNEDALE | 9/19/62 | C.F. DOUGHERTY | 10 | 35 | 64 | 72 | DOM; | |
| 13S/03E-80T53 | PRUNEDALE | 12/16/61 | C.F. DOUGHERTY | 10 | | | 208 | DOM; | |
| 13S/03E-80T54 | PRUNEDALE | 7/23/70 | C.F. DOUGHERTY | 8 | 76 | 116 | 124 | DOM; | |
| 13S/03E-80T55 | PRUNEDALE | 7/10/69 | THE PUMP SHOP | 8 | 344 | 384 | 400 | DOM; | |
| 13S/03E-80T56 | PRUNEDALE | 3/11/64 | C.F. DOUGHERTY | 8 | 288 | 328 | 336 | DOM; | |
| 13S/03E-80T57 | PRUNEDALE | 10/19/70 | C.F. DOUGHERTY | 7 | 130 | 174 | 178 | DOM; | |
| 13S/03E-80T58 | PRUNEDALE | 11/5/71 | ASH & SONS | 6 | 422 | 462 | 474 | DOM; | |
| 14S/02E-03T50 | PRUNEDALE | 7/22/70 | ALSOP | 14 | 363 | 613 | 617 | IRR; | |
| Cabana | | | | | 207 | 565 | | | |

| State Well No | Area | Date Drilled | Driller | Casing Diam | Perf Top | Perf Bottom | Depth | Use | Status |
|---|---|---|---|---|---|---|---|---|---|
| Cabana Holiday | | | | | | | | | |
| Clark | | | | | | 232 | 240 | | |
| Dolan No. 1 | | | | | | | | | |
| Fryou | | | | | | 340 | 345 | | |
| Glenn Ave W.S. | | | | | | | | | |
| Holman | | | | | | 300 | 360 | | |
| Kiewit | | | | | | 500 | | | |
| Netzel | | | | | | | | | |
| Niazmand #1 | | | | | | 480 | 480 | | |
| Normco W.S. - | | | | | | | | | |
| PG & E No. 8 | | | | | | | | | |
| Pine View WS | | | | | | 410 | 414 | | |
| Pine View WS | | | | | | 444 | 450 | | |
| Royal Oaks Pl. | | | | | | | | | |
| Royal Oaks Pl. | | | | | | | | | |
| San Miguel W.S. | | | | | | | | | |
| Shoemaker | | | | | | 160 | 320 | | |
| Strawberry Rd. | | | | | | | | | |
| Thompson | | | | | | 312 | 320 | | |
| Vega Rd W.S. #1 | | | | | | | | | |
| Vega Road #2 | | | | | | | 150 | | |
| Vega Road #5 | | | | | | 204 | 287 | | |
| Vega Road #7 | | | | | | | 300 | | |
| Vierra Cyn W.S. | | | | | | | | | |

# APPENDIX C
# AQUIFER TESTING

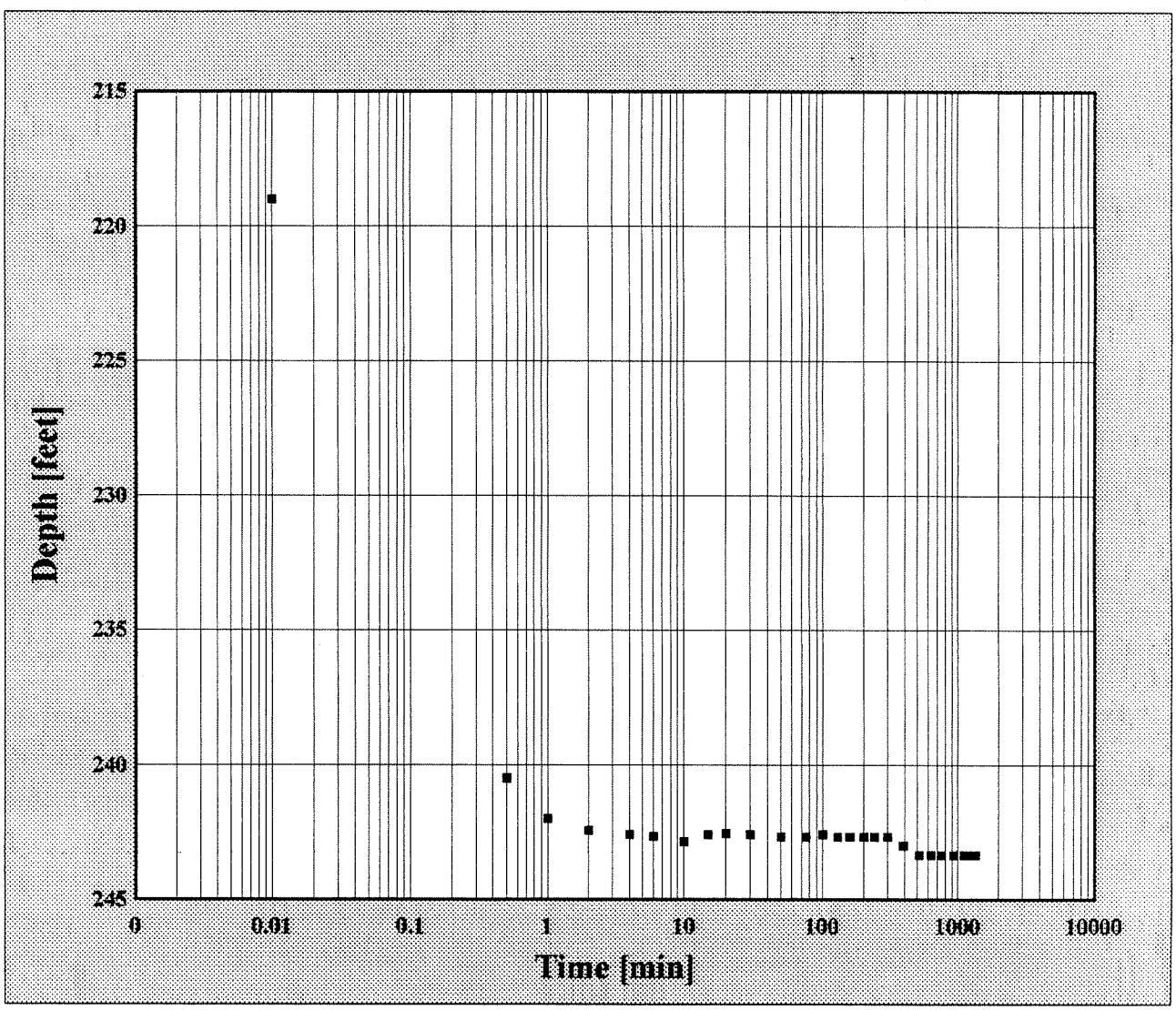
# North Monterey County - Pumping Test Summary

| Well Ident | Name |
|---|---|
| ROP2 | Royal Oaks Park Well No.2 |

| Test Date | Average Pump. Rate [gpm] | Duration [min] | SWL (ft) |
|---|---|---|---|
| 04/11/95 | 100.000 | 1350.0 | 217.93 |

Results

| PWL (ft) | SpecCap (gpm/ft) |
|---|---|
| 243.25 | 3.95 |



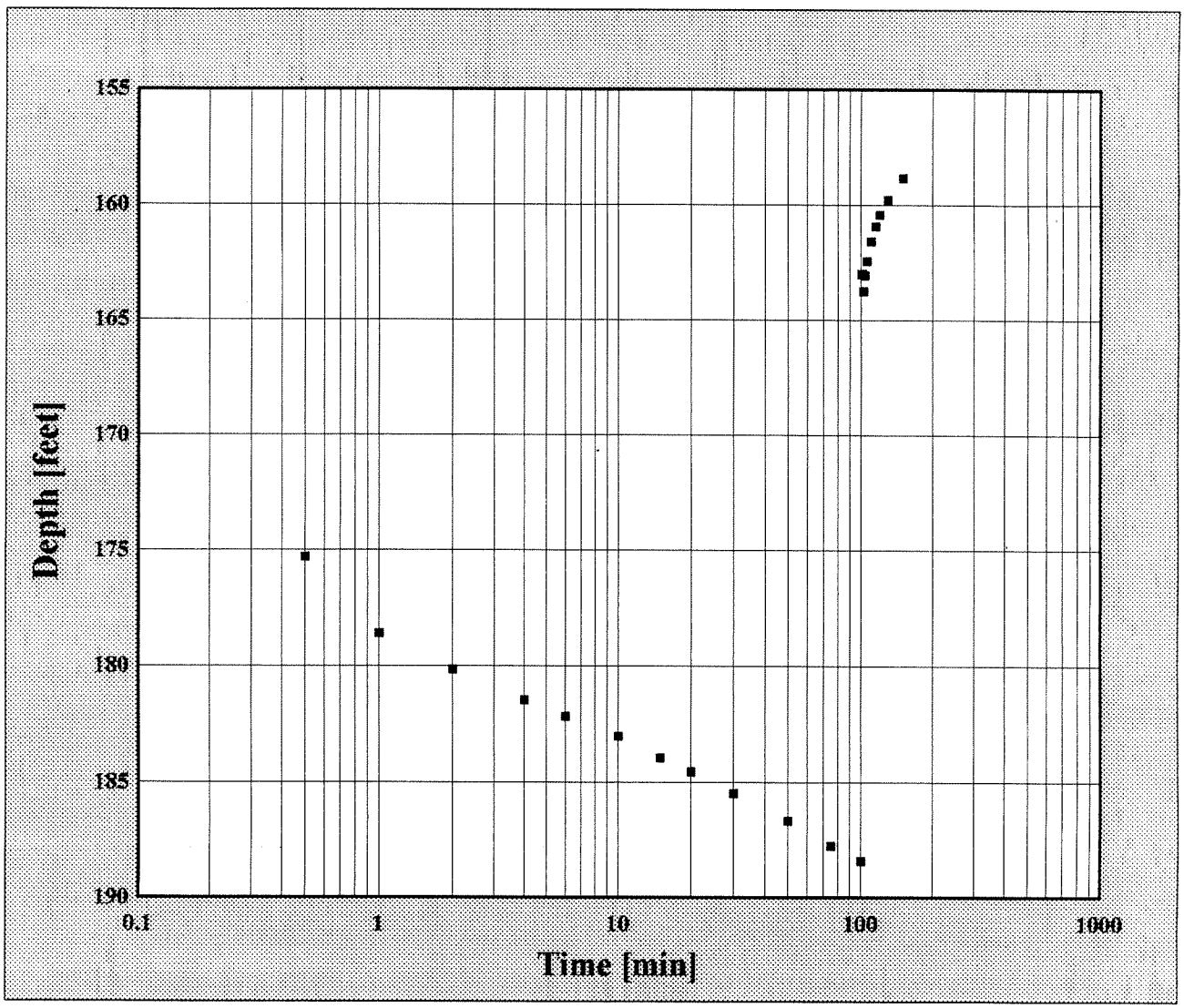
# North Monterey County - Pumping Test Summary

| Well Ident | Name |
|---|---|
| 13S/02E-24T02 | Cal-Water Oak Hills Sta.202 |

| Test Date | Average Pump. Rate [gpm] | Duration [min] | SWL (ft) |
|---|---|---|---|
| 04/06/95 | 412.00 | 150.00 | 156.22 |

Results

| PWL (ft) | SpecCap (gpm/ft) |
|---|---|
| 188.40 | 12.88 |



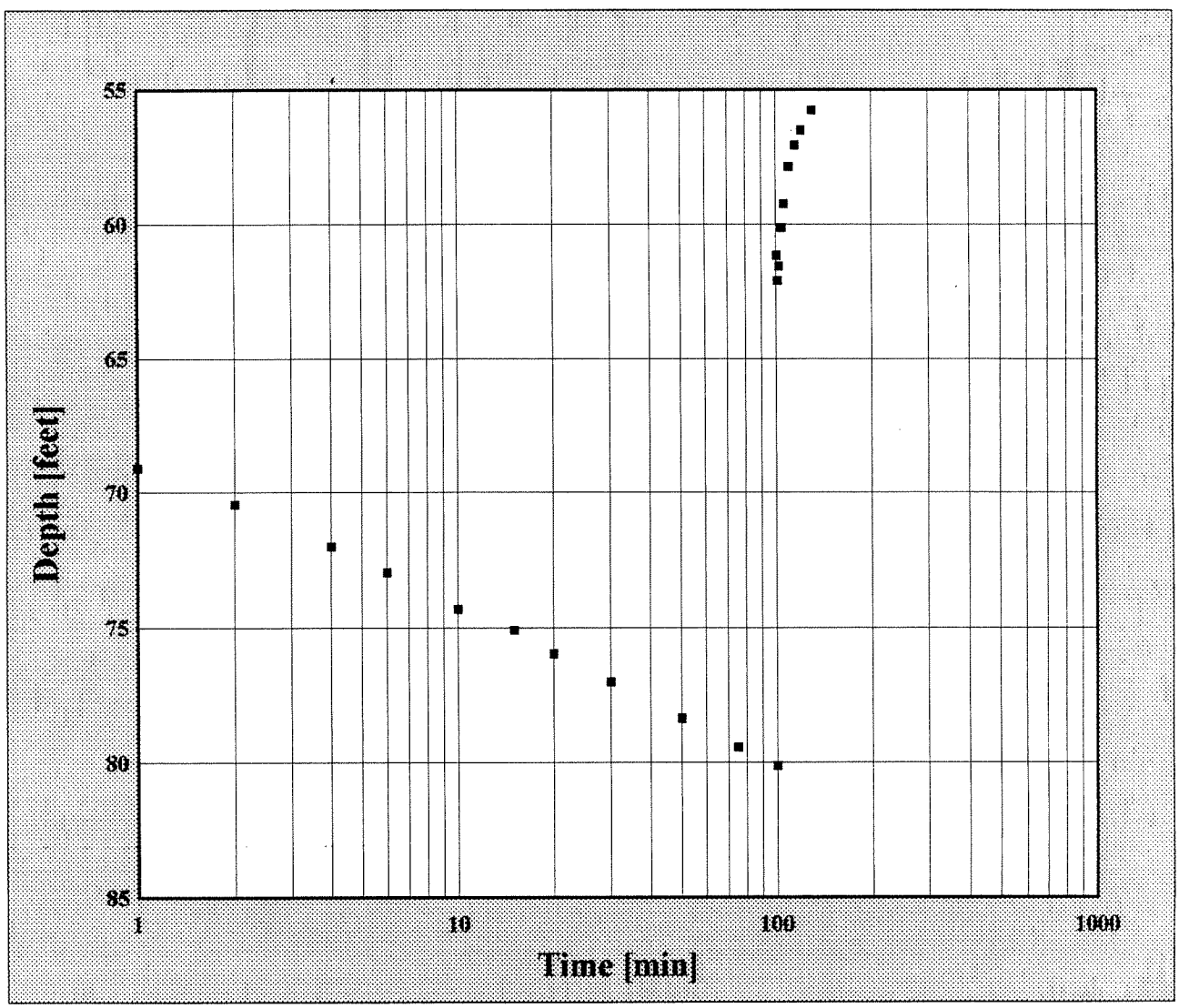
# North Monterey County - Pumping Test Summary

| Well Ident | Name |
|---|---|
| 13S/02E-26C01 | Cal-Water Oak Hills Sta.203 |

| Test Date | Average Pump. Rate [gpm] | Duration [min] | SWL (ft) |
|---|---|---|---|
| 04/05/95 | 585.00 | 130.00 | 52.14 |

Results

| PWL (ft) | SpecCap (gpm/ft) |
|---|---|
| 80.13 | 20.90 |



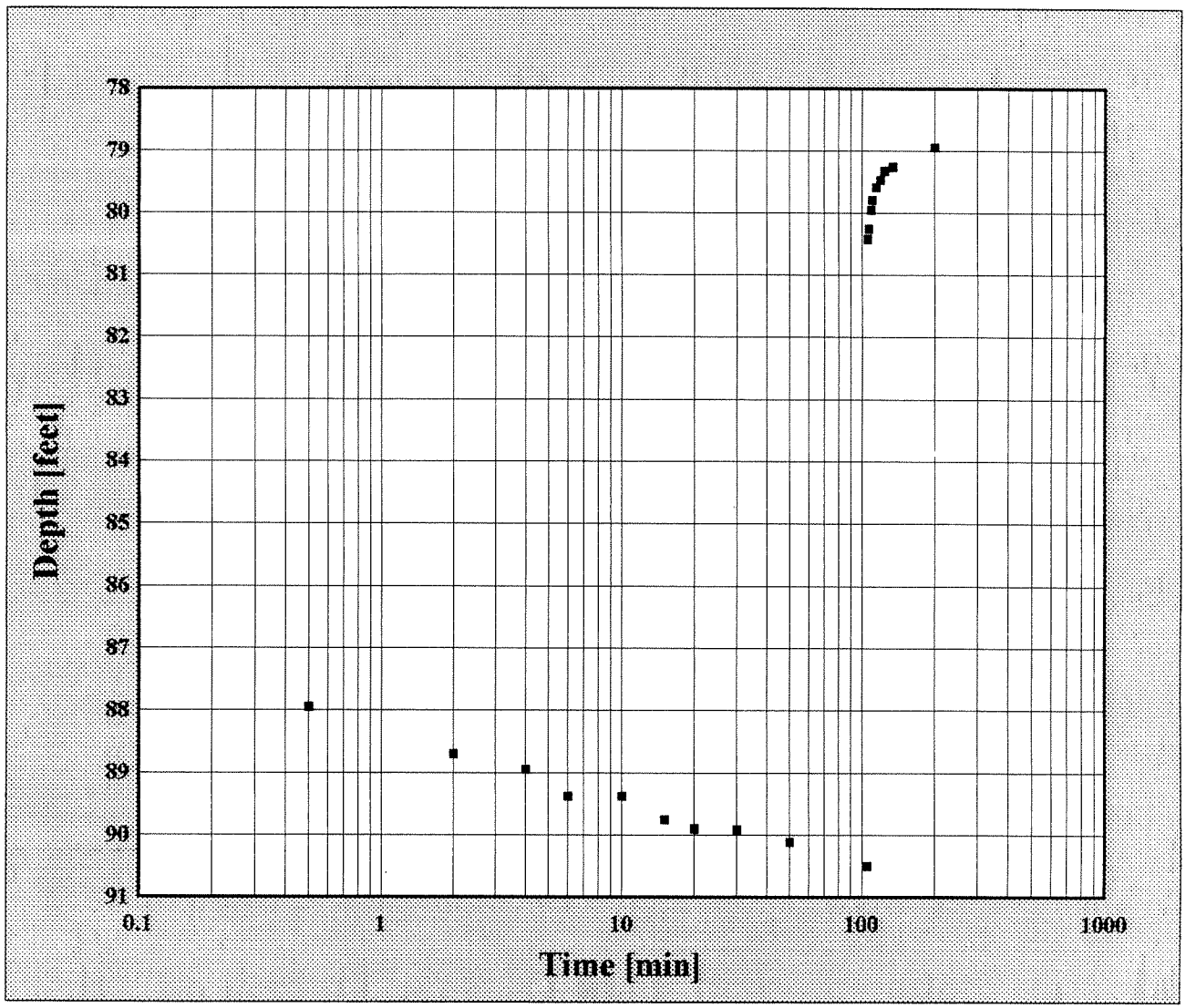
# North Monterey County - Pumping Test Summary

| Well Ident | Name |
|---|---|
| 12S/02E-22Q50 | Cal-Water Las Lomas Sta.303 |

| Test Date | Average Pump. Rate [gpm] | Duration [min] | SWL (ft) |
|---|---|---|---|
| 04/05/95 | 475.00 | 200.00 | 79.25 |

Results

| PWL (ft) | SpecCap (gpm/ft) |
|---|---|
| 90.50 | 42.50 |



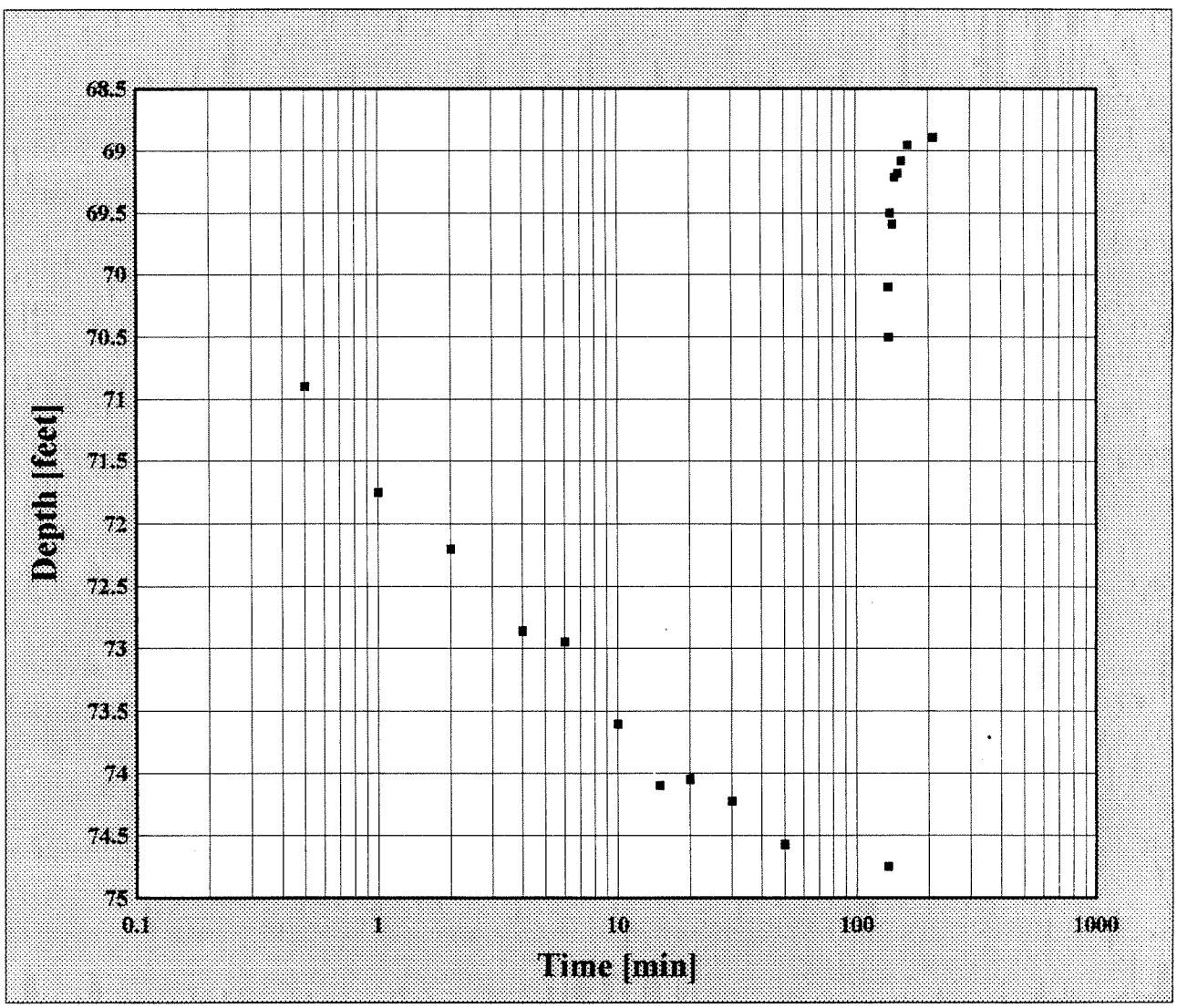
# North Monterey County - Pumping Test Summary

| Well Ident | Name |
|---|---|
| 12S/02E-27? | Cal-Water Las Lomas Sta.301 |

| Test Date | Average Pump. Rate [gpm] | Duration [min] | SWL (ft) |
|---|---|---|---|
| 04/05/95 | 150.00 | 210.00 | 68.57 |

Results

| PWL (ft) | SpecCap (gpm/ft) |
|---|---|
| 74.75 | 24.20 |



# AQUIFER TEST DATA

Owner Cal-Water Address Holly Oak Wy - Oak Hills County Monterey State CA

Date 4/6/95 Company performing test Fugro West Measured by R. Marks

Well No. 202 Distance from pumping well - Type of test Time Drawdown Test No. 1

Measuring equipment Sounder - No Meter

**Time Data**
Pump on: Date ____ Time ____ (t.)
Pump off: Date ____ Time ____ (t')
Duration of aquifer test:
Pumping ____ Recovery ____

**Water Level Data**
Static water level 156.22
Measuring point Top of S.T
Elevation of measuring point 130

**Discharge Data**
How Q measured ____
Depth of pump/air line ____
Previous pumping? Yes ____ No ____
Duration ____ End ____

Comments on factors affecting test data

| Date | Clock time | Time since pump started t | Time since pump stopped t' | t/t' | | Water level measurement | Correction or Conversion | Water level | Water level change s or s' | | Discharge measurement | Rate | | Comments on factors affecting test data |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 412 pm PG&E 1994 (Buddy) |
| 4/6 | 10:35 | 0 | | | | 156.22 | | | | | | | | |
| | | 0.5 | | | | 175.3 | | | | | | | | 6" Q-Line |
| | | 1 | | | | 178.6 | | | | | | | | 68 psi upstream |
| | | 2 | | | | 180.15 | | | | | | | | of Gate Valve |
| | | 4 | | | | 181.45 | | | | | | | | |
| | 10:41 | 6 | | | | 182.18 | | | | | | | | |
| | 10:45 | 10 | | | | 183.05 | | | | | | | | |
| | 10:50 | 15 | | | | 183.96 | | | | | | | | 68 psi |
| | 10:55 | 20 | | | | 184.55 | | | | | | | | |
| | 11:05 | 30 | | | | 185.47 | | | | | | | | |
| | 11:25 | 50 | | | | 186.67 | | | | | | | | |
| | 11:50 | 75 | | | | 187.76 | | | | | | | | 67.8 psi |
| | 12:15 | 100 | | | | 188.4 | | | | | | | | 67.3 psi |
| | | | 0.5 | | | 158.3 | | | | | | | | Well / Pump |
| | | | 1 | | | 163 | | | | | | | | Top of Bowls - 240 |
| | | | 2 | | | 163.75 | | | | | | | | Btm Intake - 258 |
| | | | 4 | | | 163.05 | | | | | | | | Top " - 257 |
| | | | 6 | | | 162.43 | | | | | | | | |
| | 12:25 | | 10 | | | 161.57 | | | | | | | | Btm Well 463 |
| | 12:30 | | 15 | | | 160.93 | | | | | | | | Perf 299-463 |
| | 12:35 | | 20 | | | 160.41 | | | | | | | | |
| | 12:45 | | 30 | | | 159.75 | | | | | | | | Byron Jks, 10 stgs |
| | 13:05 | | 50 | | | 158.84 | | | | | | | | |

# AQUIFER TEST DATA

Owner Cal Water Address Colonial Oaks - Oak Hills County Monterey State CA

Date 4/5/95 Company performing test Fugro West Measured by R. Mules

Well No. 203 Distance from pumping well - Type of test Time Drawdown Test No. 1

Measuring equipment Sounder - Totalizing Meter

**Time Data**
Pump on: Date ____ Time ____ (t.)
Pump off: Date ____ Time ____ (t')
Duration of aquifer test:
Pumping ____ Recovery ____

**Water Level Data**
Static water level 52.14'
Measuring point Top S.T
Elevation of measuring point 35

**Discharge Data**
How Q measured Totalizer
Depth of pump/air line ____
Previous pumping? Yes ____ No X
Duration ____ End ____

Comments on factors affecting test data

| Date | Clock time | Time since pump started t | Time since pump stopped t' | t/t' | | Water level measurement | Correction or Conversion | Water level | Water level change s or s' | | Discharge measurement | Rate | | Comments on factors affecting test data |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Totalizer 46011275 cf |
| 4/5 | 14:30 | 0 | | | | 52.14 | | | | | | | | Throttle Back to 110 psi |
| | | 0.5 | | | | | | | | | | | | = 78 cfm |
| | | 1 | | | | 69.1 | | | | | | | | |
| | | 2 | | | | 70.45 | | | | | | | | |
| | | 4 | | | | 72.0 | | | | | | | | |
| | | 6 | | | | 72.96 | | | | | 78 cfm | 583 gpm | | |
| | | 10 | | | | 74.31 | | | | | 77 cfm | 576 | | |
| | | 15 | | | | 75.1 | | | | | 76 | 568 | | 110 psi |
| | | 20 | | | | 75.97 | | | | | 78 | 583 | | |
| | 15:00 | 30 | | | | 77.01 | | | | | 78.5 | 587 | | |
| | 15:20 | 50 | | | | 78.38 | | | | | 11 | 11 | | |
| | 15:45 | 75 | | | | 79.45 | | | | | 11 | | | |
| | 16:10 | 100 | 0 | | | 80.13 | | | | | 11 | | | |
| | | | 0.5 | | | 61.15 | | | | | | | | |
| | | | 1 | | | 62.08 | | | | | | | | |
| | | | 2 | | | 61.55 | | | | | | | | |
| | | | 4 | | | 60.12 | | | | | | | | Top Pump Bowls 170 |
| | | | 6 | | | 59.22 | | | | | | | | Intake Btm - 180 |
| | | | 10 | | | 57.87 | | | | | | | | " Top - 178 |
| | | | 15 | | | 57.06 | | | | | | | | GE, 91 Amps, 480 Volts |
| | 16:30 | 120 | 20 | | | 56.5 | | | | | | | | 3, phase, 75 Hp. 1770 |
| | | 130 | 30 | | | 55.75 | | | | | | | | |
| | | | | | | | | | | | | | | Perf 200 - 620 |
| | | | | | | | | | | | | | | Btm well 640 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Aurora 9 stgs |

# AQUIFER TEST DATA

Owner Cal Water Address Las Lomas County Monterey State CA

Date 4/5/95 Company performing test Fugro West Measured by R. Marks

Well No. 303 Distance from pumping well — Type of test Time Drawdown Test No. 1

Measuring equipment Sounder - Digital Flow Meter

**Time Data**
Pump on: Date ____ Time ____ (t)
Pump off: Date ____ Time ____ (t')
Duration of aquifer test:
Pumping 1025 Recovery 95

**Water Level Data**
Static water level 79.25
Measuring point Top of S.T
Elevation of measuring point 69'

**Discharge Data**
How Q measured Data Ind. Dig Flow
Depth of pump/air line —
Previous pumping? Yes Y No ____
Duration 10 min End ~3.5 hrs prior to test

Comments on factors affecting test data

| Date | Clock time | Time since pump started t | Time since pump stopped t' | t/t' | | Water level measurement | Correction or Conversion | Water level | Water level change s or s' | | Discharge measurement | Rate | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/5 | | 70 | | | | 79.25 | | | | | | | | |
| | | 70.5 | | | | ~~87.95~~ | | | | | | | | |
| | | 71 | | | | | | | | | | | | |
| | | 72 | | | | 88.7 | | | | | | | | |
| | | 74 | | | | 88.95 | | | | | 476 | gpm | | |
| | | 76 | | | | 89.17 | | | | | | | | |
| | | 80 | | | | 89.38 | | | | | 471 | | | |
| | | 85 | | | | 89.75 | | | | | 484 | | | △ Values → pump |
| | | 90 | | | | 89.80 | | | | | 479 | | | to waste from |
| | | 100 | | | | 89.91 | | | | | | | | System |
| | | 120 | | | | 90.11 | | | | | 479 | | | |
| | | 175 | 0 | | | 90.50 | | | | | 478 | | | |
| | | | 0.5 | | | 80.42 | | | | | | | | |
| | | | 1 | | | | | | | | | | | |
| | | | 2 | | | 80.25 | | | | | | | | |
| | | | 4 | | | ~~79.95~~ | | | | | | | | GE, 114 Amps, 230 v. |
| | | | 6 | | | ~~79.80~~ | | | | | | | | 3 phs, 50 Hp, 1780 r |
| | | 185 | 10 | | | ~~79.59~~ | | | | | | | | |
| | | 190 | 15 | | | ~~79.47~~ | | | | | | | | Top Bowls 120 |
| | | 195 | 20 | | | ~~79.32~~ | | | | | | | | Top Intake 126' 3" |
| | | 205 | 30 | | | ~~79.26~~ | | | | | | | | Btm " -127'5" |
| | | 270 | 95 | | | ~~78.95~~ | | | | | | | | Peerless, 8 stgs, 9½0 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | perf - 290-320 |
| | | | | | | | | | | | | | | 350-390 |
| | | | | | | | | | | | | | | 410-420 |
| | | | | | | | | | | | | | | 440-450 |
| | | | | | | | | | | | | | | 480-500 |

# AQUIFER TEST DATA

Owner Cal-Water Address Hall Road - Las Lomas County _____ State _____

Date 3/5/95 Company performing test Fugro West Measured by R. Munks

Well No. 301 Distance from pumping well — Type of test Time-Drawdown Test No. 1

Measuring equipment Sounder - Totalizing Meter

**Time Data**
Pump on: Date _____ Time _____ (t.)
Pump off: Date _____ Time _____ (t')
Duration of aquifer test:
Pumping 135 Recovery 75

**Water Level Data**
Static water level 68.57
Measuring point Top of Sounding Tube
Elevation of measuring point 51

**Discharge Data**
How Q measured Totalizer
Depth of pump/air line _____
Previous pumping? Yes X No ____
Duration 45 mins End 2 hrs prior to test

Comments on factors affecting test data

| Date | Clock time | Time since pump started t | Time since pump stopped t' | t/t' | | Water level measurement | Correction or Conversion | Water level | Water level change s or s' | | Discharge measurement | Rate | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/5 | | 0 | | | | 68.57 | | | | | | | | |
| | | 0.5 | | | | 70.9 | | | | | | 149.6 | | |
| | | 1 | | | | 71.75 | | | | | | | | |
| | | 2 | | | | 72.2 | | | | | | | | |
| | | 4 | | | | 72.86 | | | | | 20 cfm | | | |
| | | 6 | | | | 72.25 | | | | | | | | |
| | | 10 | | | | 73.6 | | | | | 20 cfm | | | |
| | | 15 | | | | 74.1 | | | | | | | | |
| | | 20 | | | | 74.05 | | | | | 20 cfm | | | |
| | | 30 | | | | 74.23 | | | | | 20 cfm | | | |
| | | 50 | | | | 74.57 | | | | | | | | |
| | | 100 | | | | | | | | | | | | |
| | | 130 | | | | 74.75 | | | | | 20 cfm | | | |
| | | 135 | 0 | | | 74.75 | | | | | | | | |
| | | | 0.5 | | | 70.5 | | | | | | | | |
| | | | 1 | | | 70.1 | | | | | | | | |
| | | | 2 | | | | | | | | | | | |
| | | | 4 | | | 69.5 | | | | | | | | |
| | | | 6 | | | 69.59 | | | | | | | | |
| | | 145 | 10 | | | 69.21 | | | | | | | | |
| | | 150 | 15 | | | 69.18 | | | | | | | | |
| | | 155 | 20 | | | 69.08 | | | | | | | | |
| | | 165 | 30 | | | 68.95 | | | | | | | | |
| | | 210 | 75 | | | 66.89 | | | | | | | | |

# Pumping Tests - General Data

| Well Ident | AvgPRate | Transmissivity | Storage | Leakance |
|---|---|---|---|---|
| 12S/02E-22Q50 | 475.00 | 249476 | | |
| 12S/02E-27? | 149.60 | 67669 | | |
| 13S/02E-24T02 | 412.00 | 35699 | | |
| 13S/02E-26C01 | 585.00 | 37316 | | |
| ROP2 | 100.000 | | | |

# APPENDIX D
# WATER LEVEL - CHEMICAL HYDROGRAPHS

# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-14N01

Area: PRUNEDALE

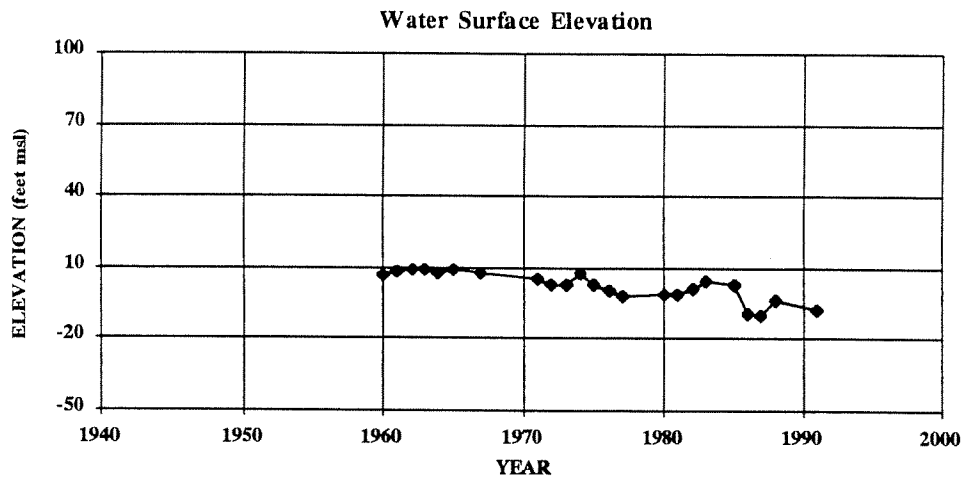
Use: IRRIGATION

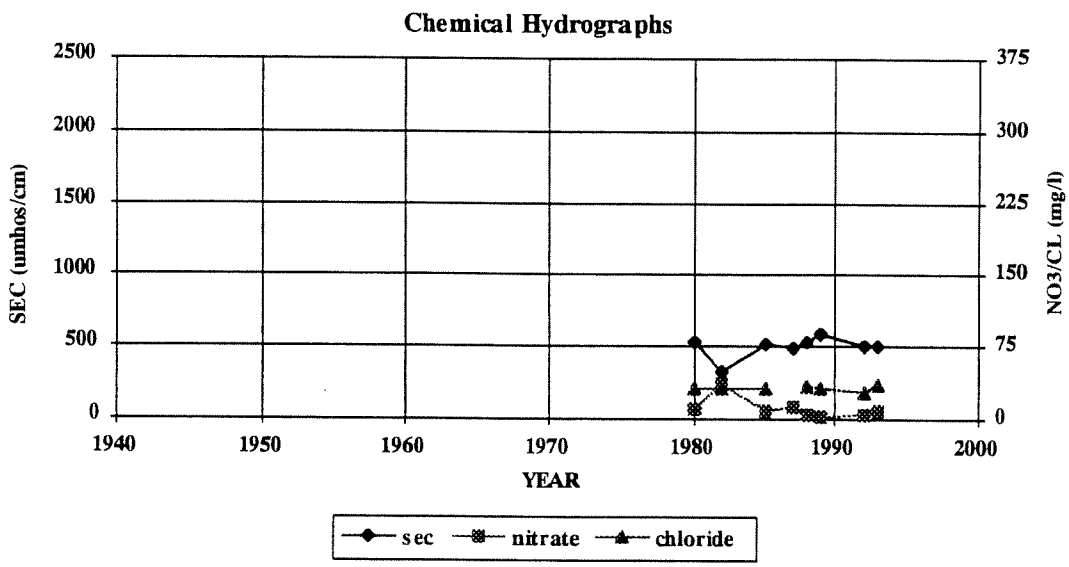
Ground Surface Elevation: 60

Perforation Rng Elevations -130 - -210

Depth: 274

Perforation Range: 190 - 270



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-14Q01

Area: PRUNEDALE

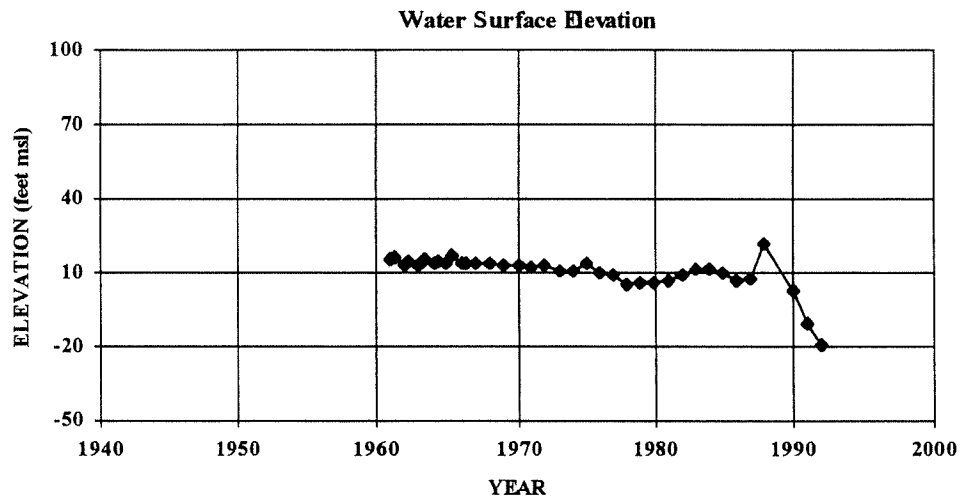
Use: IRRIGATION

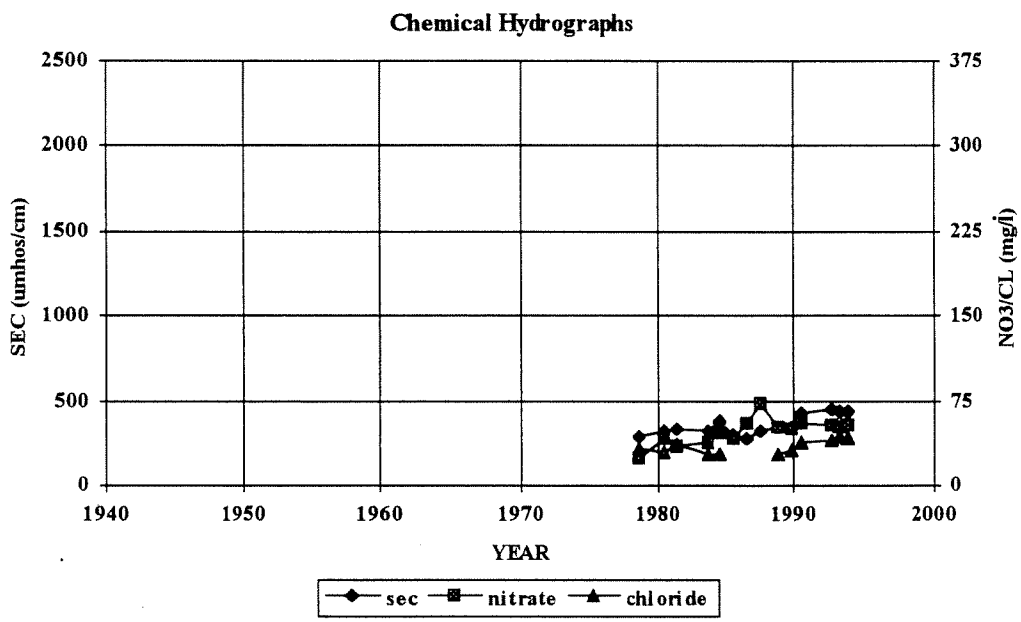
Ground Surface Elevation: 160

Perforation Rng Elevations: -20 - -60

Depth: 220

Perforation Range: 180 - 220



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-25A01

Area: PRUNEDALE

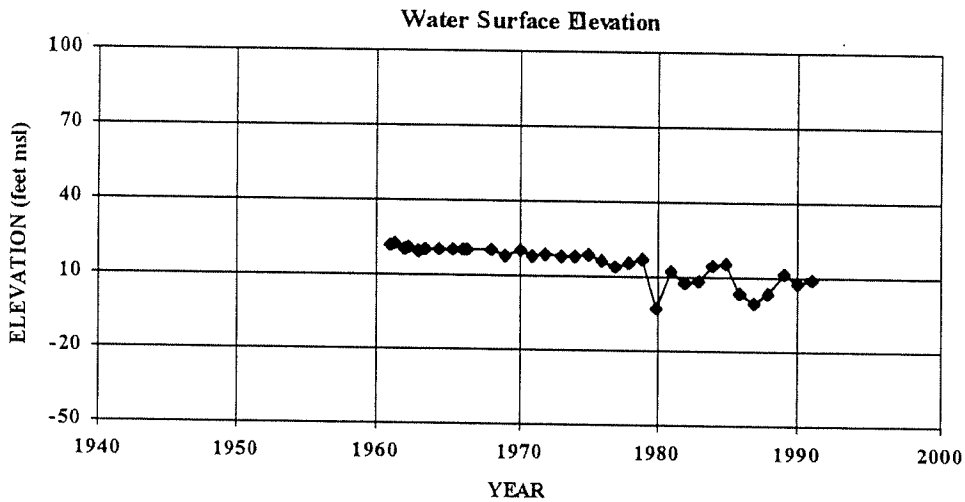
Use: DOMESTIC

Ground Surface Elevation: 200

Perforation Rng Elevations: 0 - -40

Depth: 248

Perforation Range: 200 - 240



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-25K01

Area: PRUNEDALE

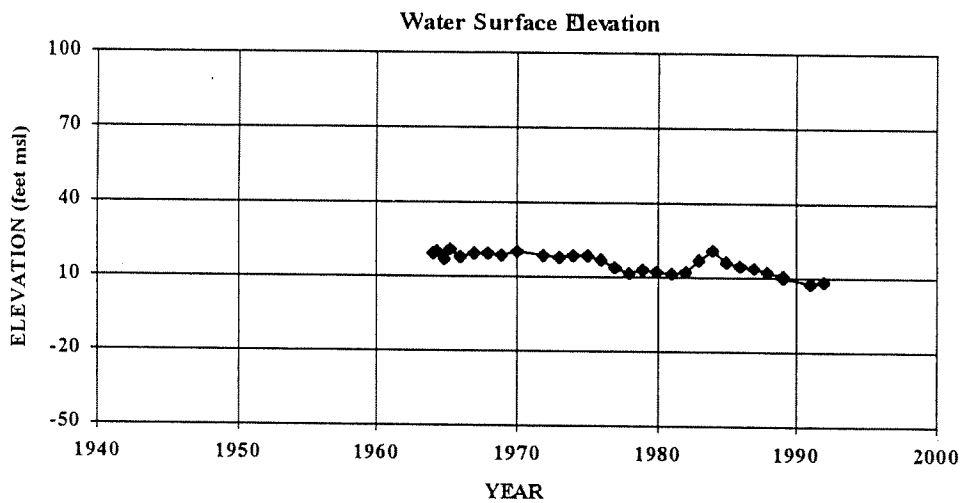
Use: DOMESTIC

Ground Surface Elevation: 30

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-25N01

Area: PRUNEDALE

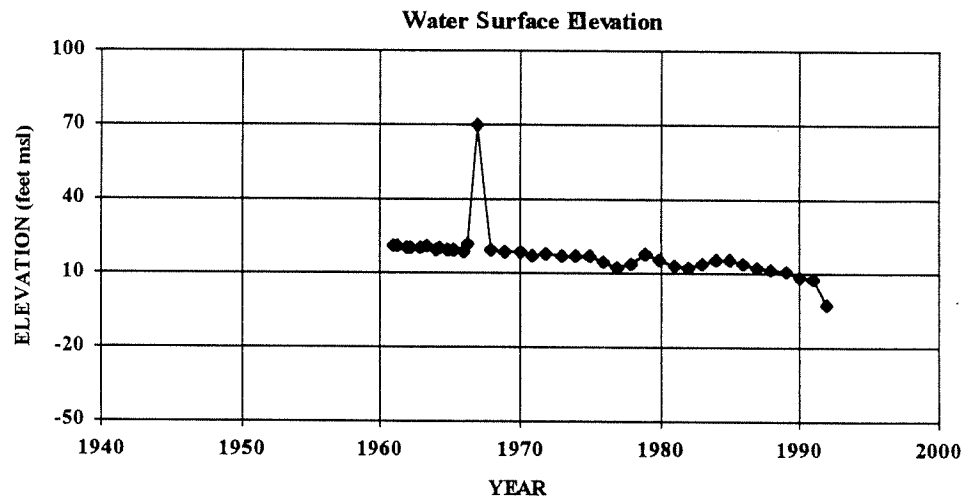
Use: DOMESTIC

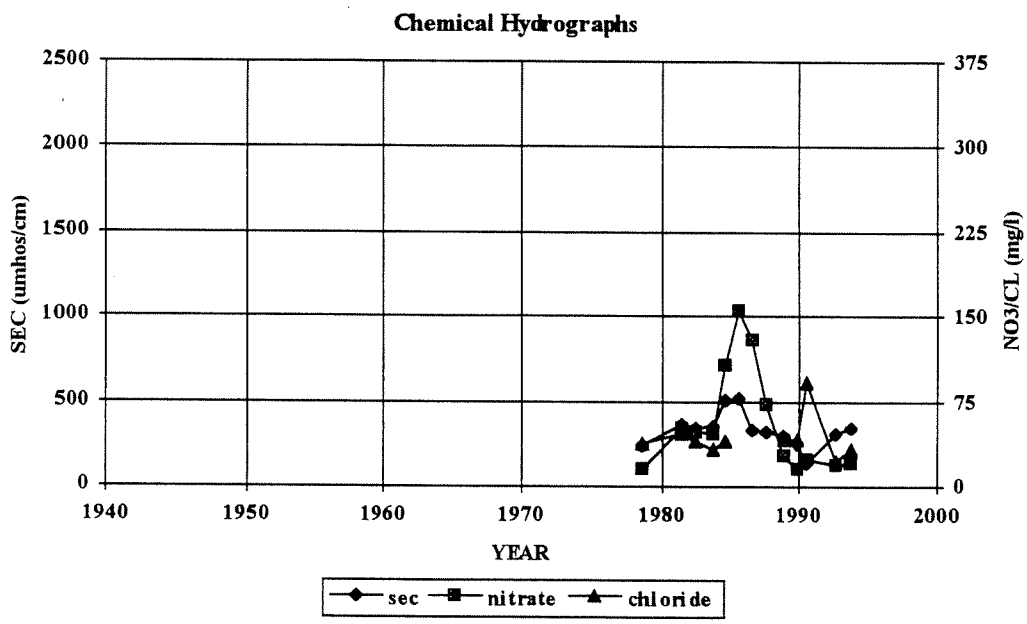
Ground Surface Elevation: 80

Perforation Rng Elevations: - No Data

Depth: 100

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-27L01

Area: PRUNEDALE

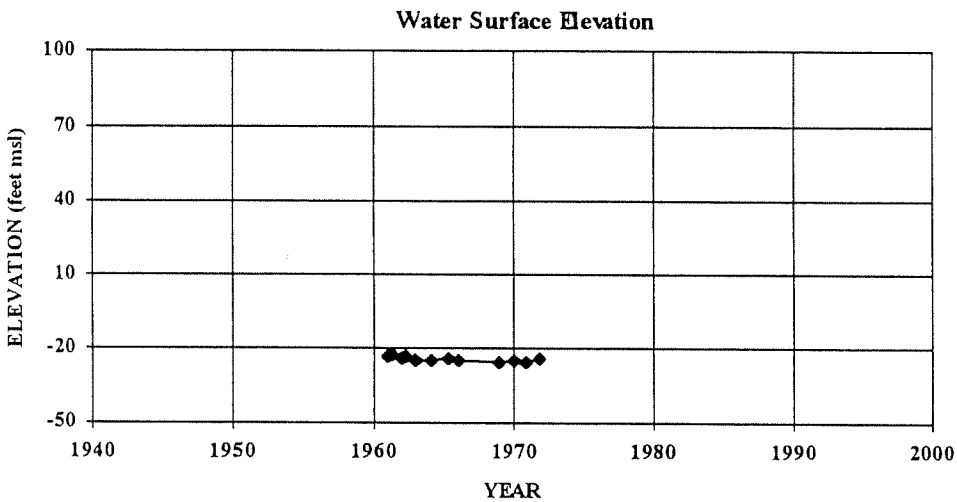
Use: DOMESTIC

Ground Surface Elevation: 85

Perforation Rng Elevations: -25 - -65

Depth: 150

Perforation Range: 110 - 150



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-33H01

Area: PRUNEDALE

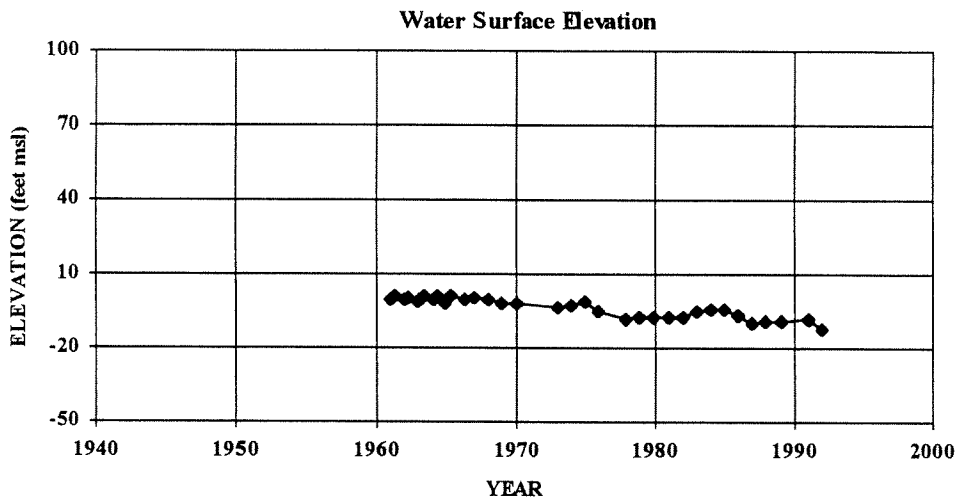
Use: IRRIGATION

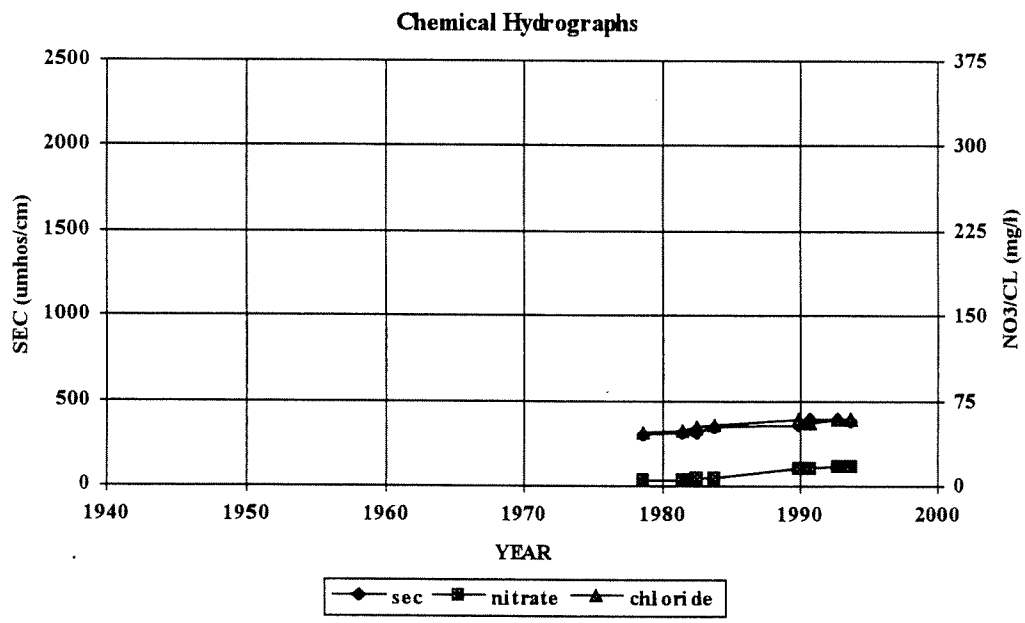
Ground Surface Elevation: 35

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-19M01

Area: PRUNEDALE

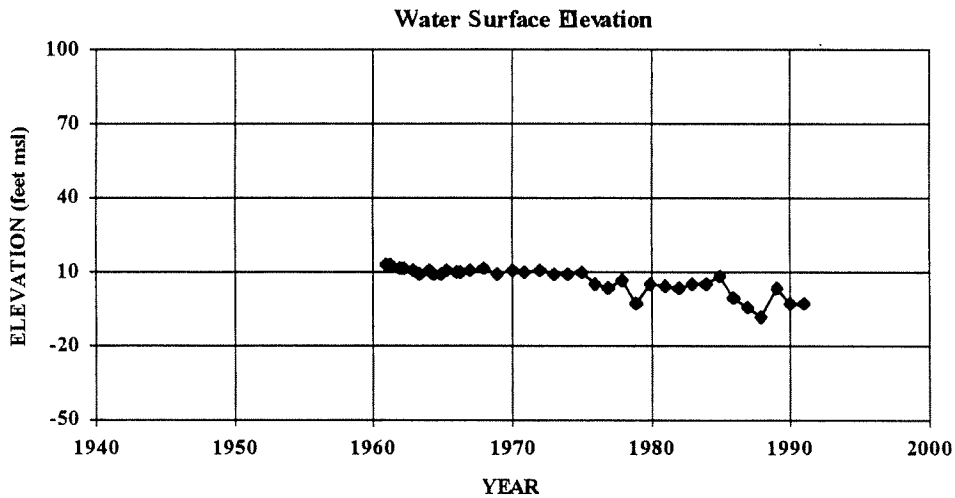
Use: IRRIGATION

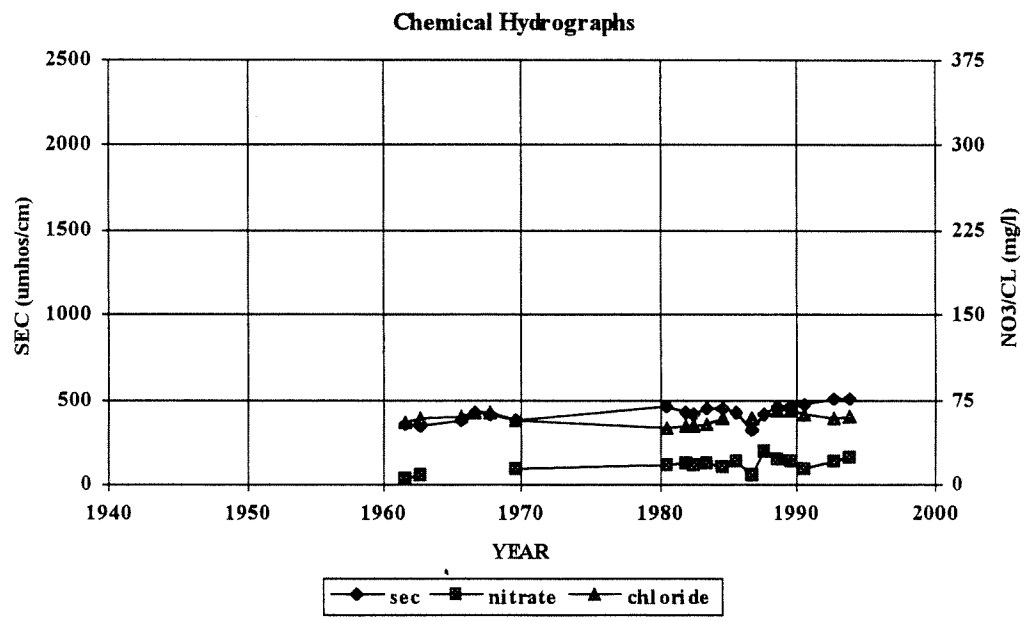
Ground Surface Elevation: 115

Perforation Rng Elevations: 15 - -46

Depth: 161

Perforation Range: 100 - 161



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-29H01

Area: PRUNEDALE

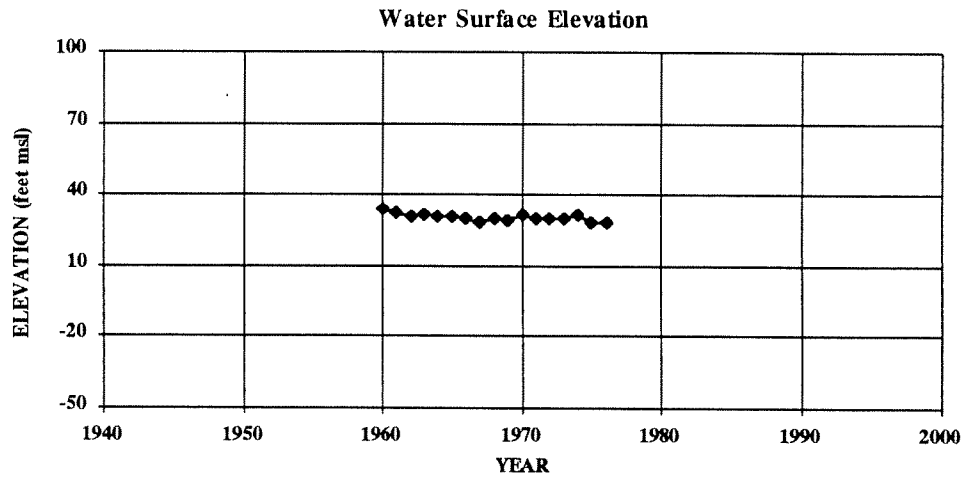
Use: IRRIGATION

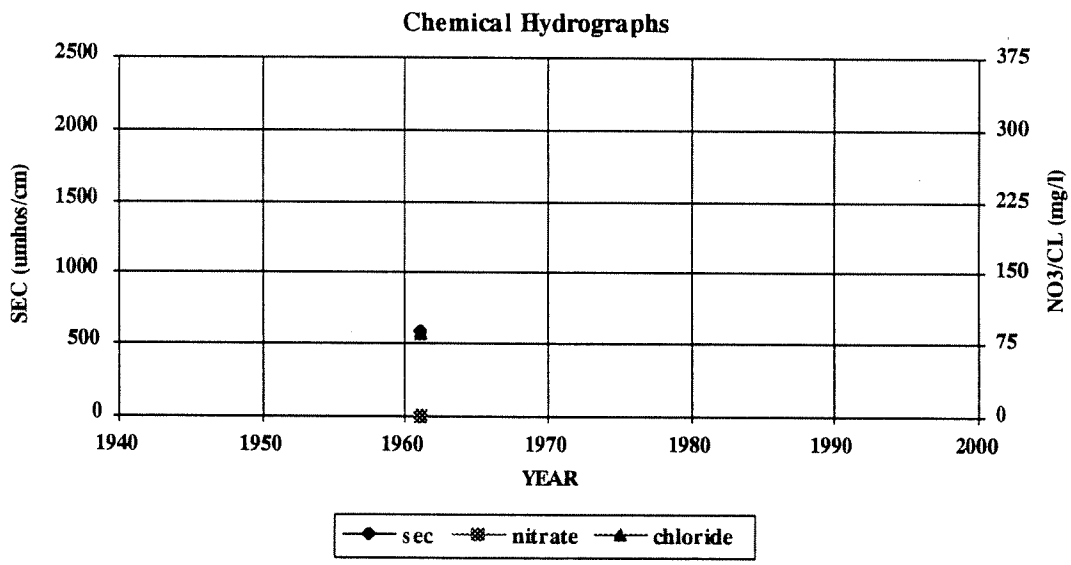
Ground Surface Elevation: 141

Perforation Rng Elevations 35 - 11

Depth: 169

Perforation Range: 106 - 130



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-30A01

Area: PRUNEDALE

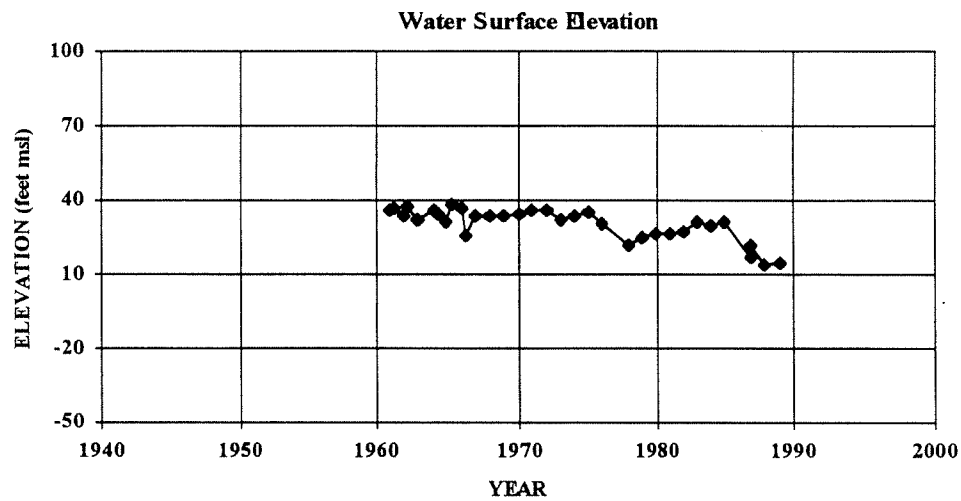
Use: IRRIGATION

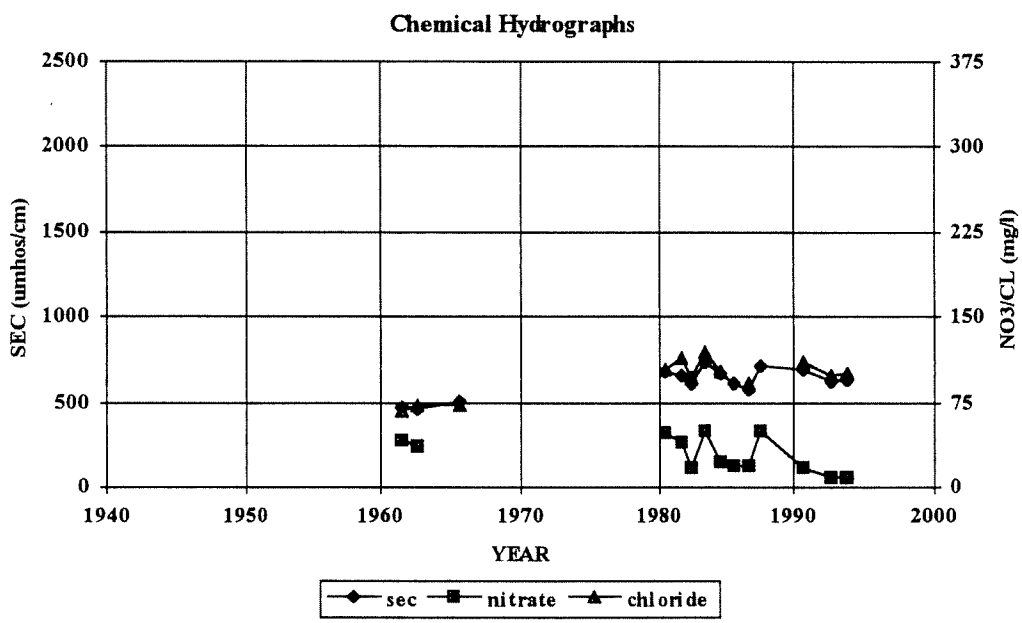
Ground Surface Elevation: 100

Perforation Rng Elevations: -41 - -125

Depth: 225

Perforation Range: 141 - 225



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-31E01

Area: PRUNEDALE

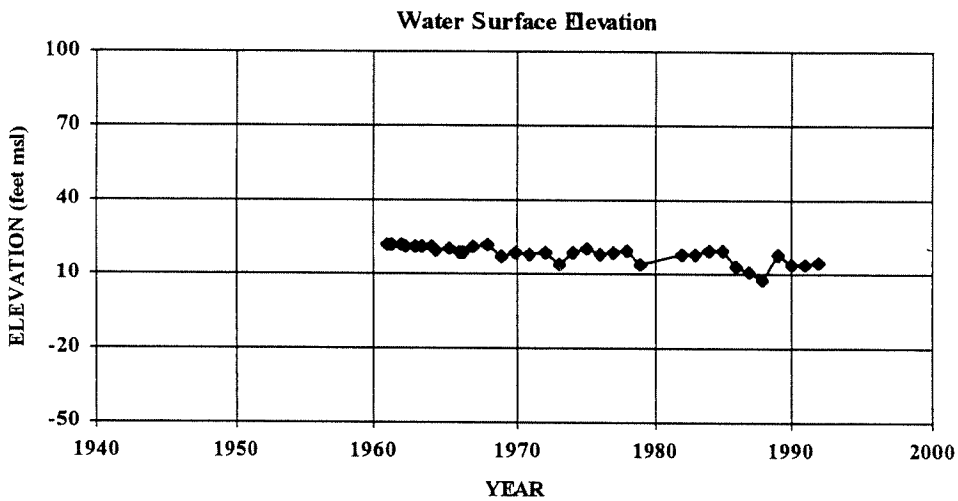
Use: DOMESTIC

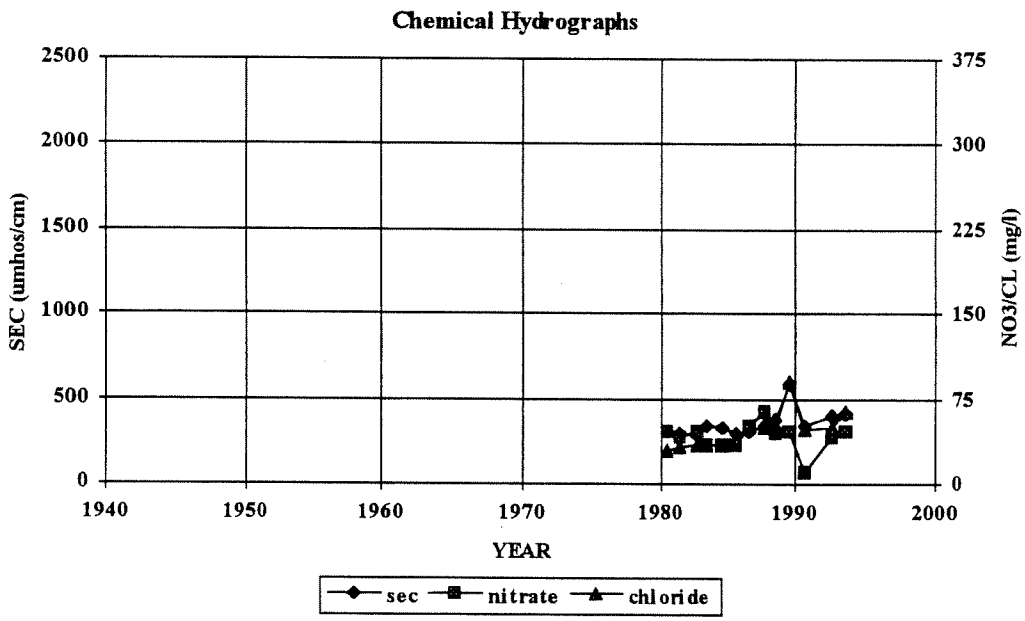
Ground Surface Elevation: 143

Perforation Rng Elevations: 51 - -5

Depth: 170

Perforation Range: 92 - 148



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-31G01

Area: PRUNEDALE

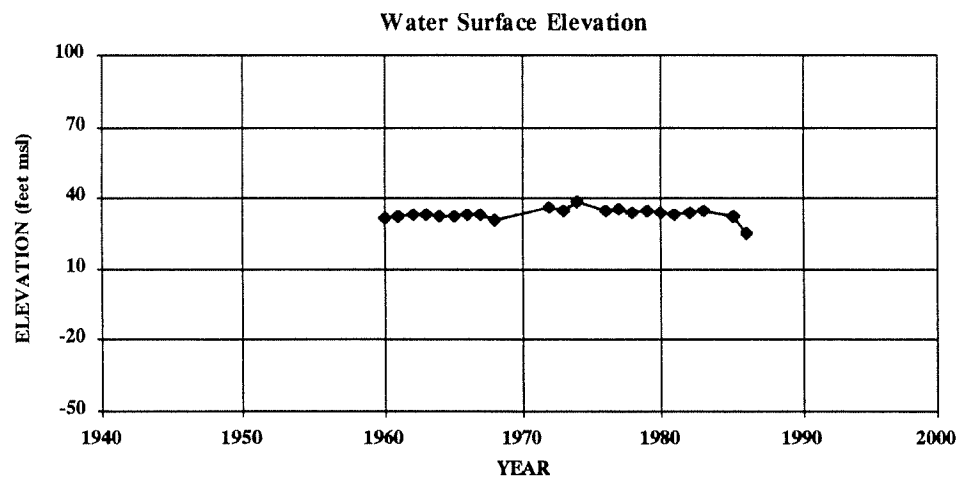
Use: DOMESTIC

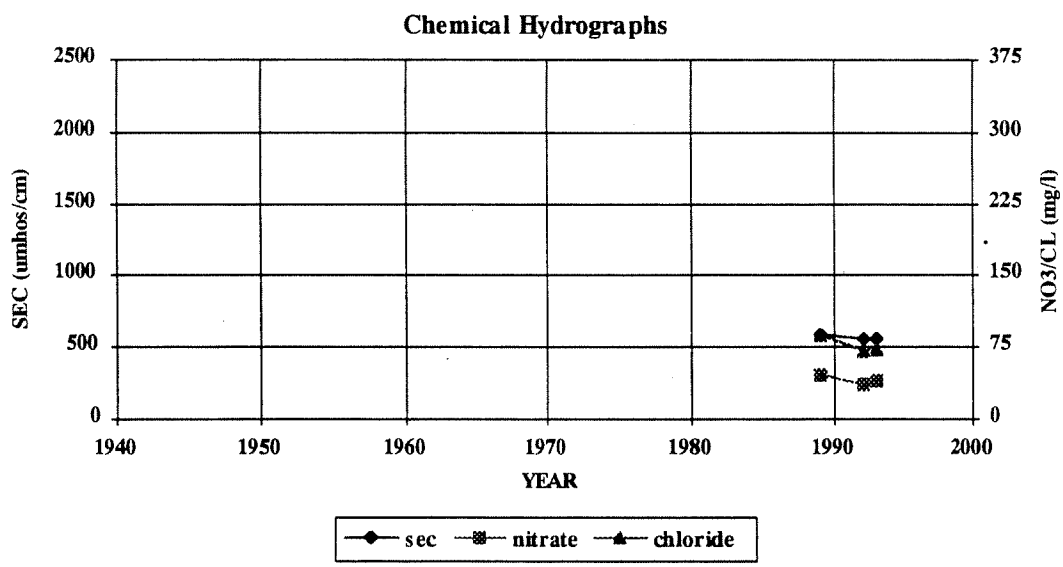
Ground Surface Elevation: 120

Perforation Rng Elevations -27 - -36

Depth: 156

Perforation Range: 147 - 156



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-33H01

Area: PRUNEDALE

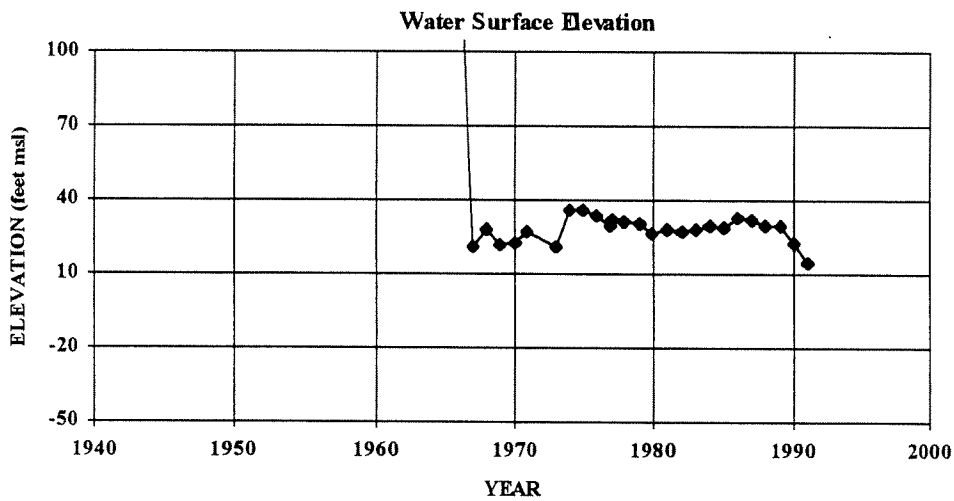
Use: DOMESTIC

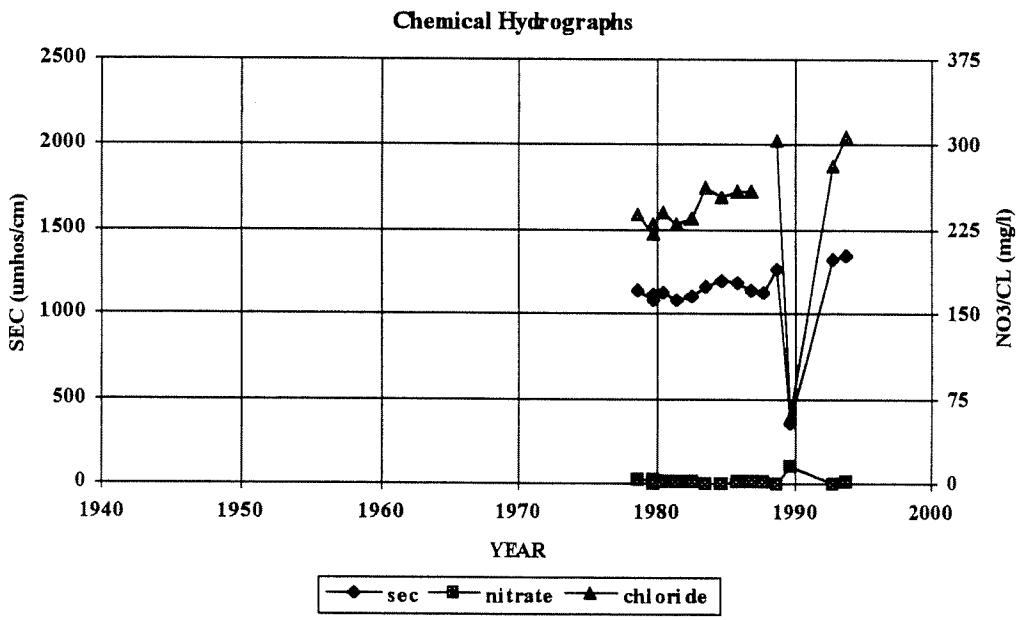
Ground Surface Elevation: No Data

Perforation Rng Elevations: -

Depth: 542

Perforation Range: 335 - 445



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-01K01

Area: PRUNEDALE

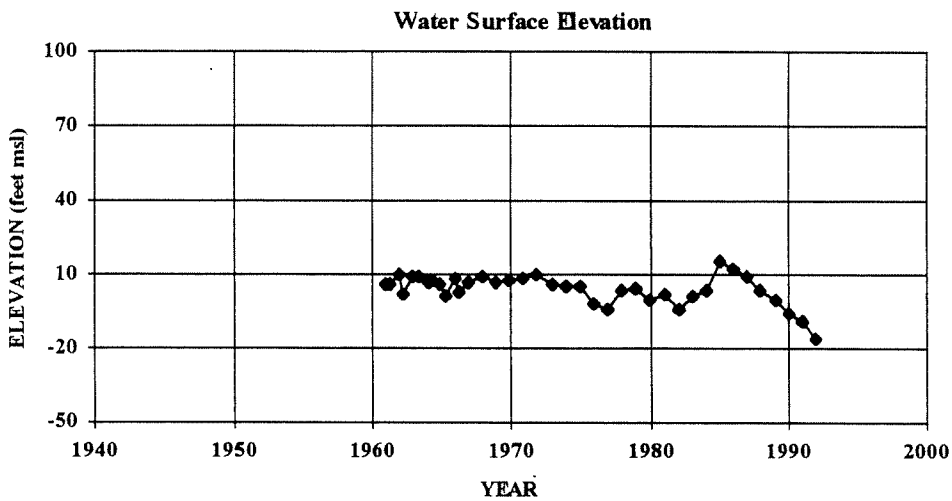
Use: IRRIGATION

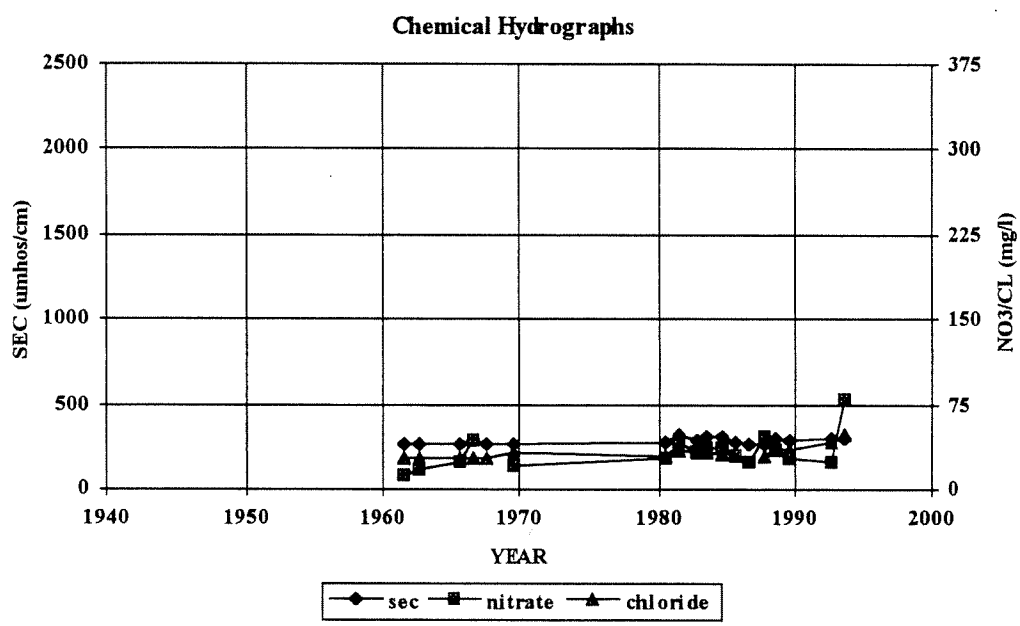
Ground Surface Elevation: 225

Perforation Rng Elevations: 1 - -39

Depth: 272

Perforation Range: 224 - 264



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-02C01

Area: PRUNEDALE

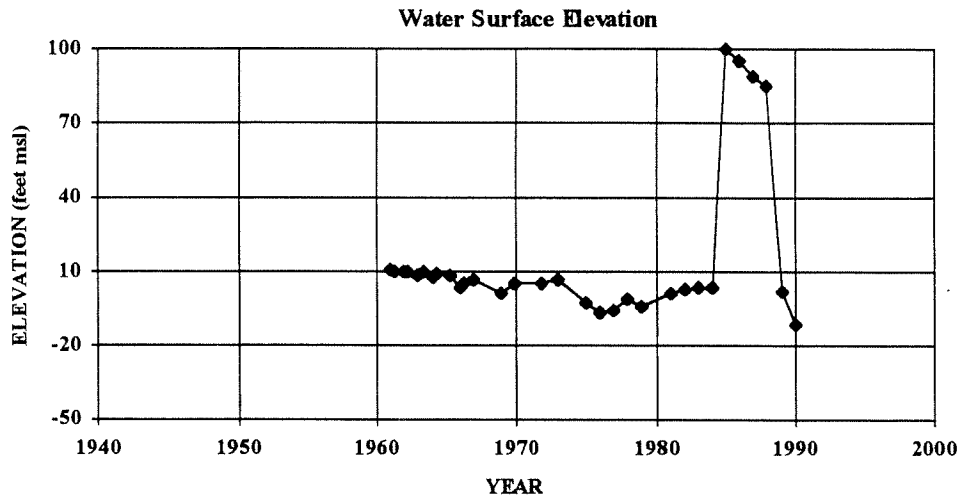
Use: DOMESTIC

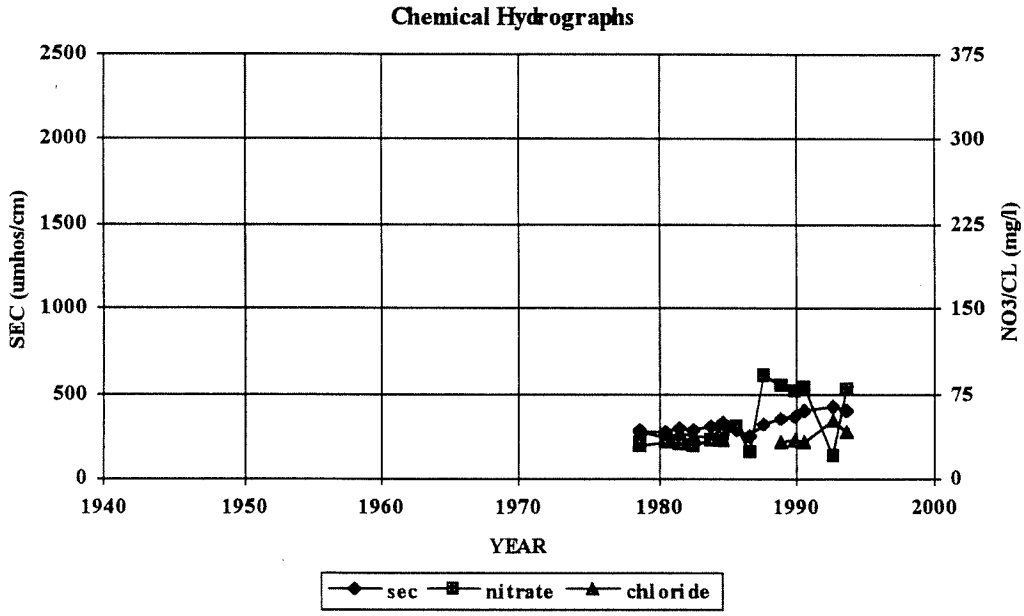
Ground Surface Elevation: 215

Perforation Rng Elevations: 3 - -29

Depth: 252

Perforation Range: 212 - 244



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-03Q01

Area: PRUNEDALE

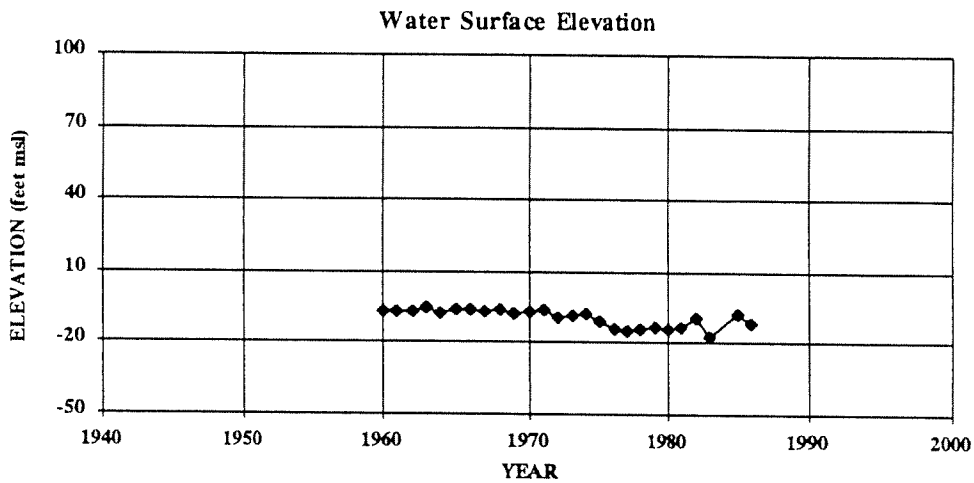
Use: IRRIGATION

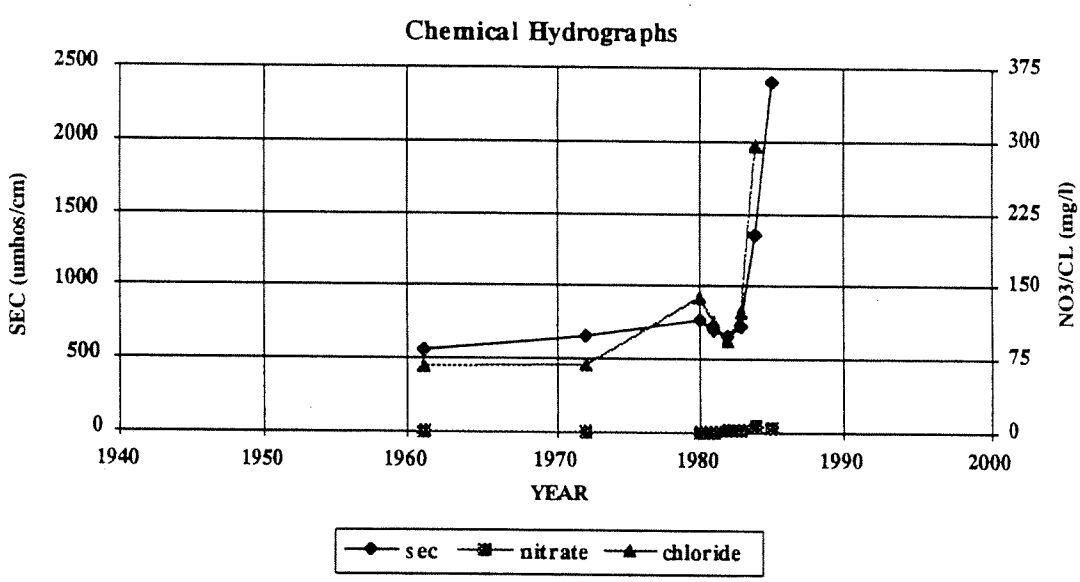
Ground Surface Elevation: 12

Perforation Rng Elevations -84 - -180

Depth: 192

Perforation Range: 96 - 192



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-10J01

Area: PRUNEDALE

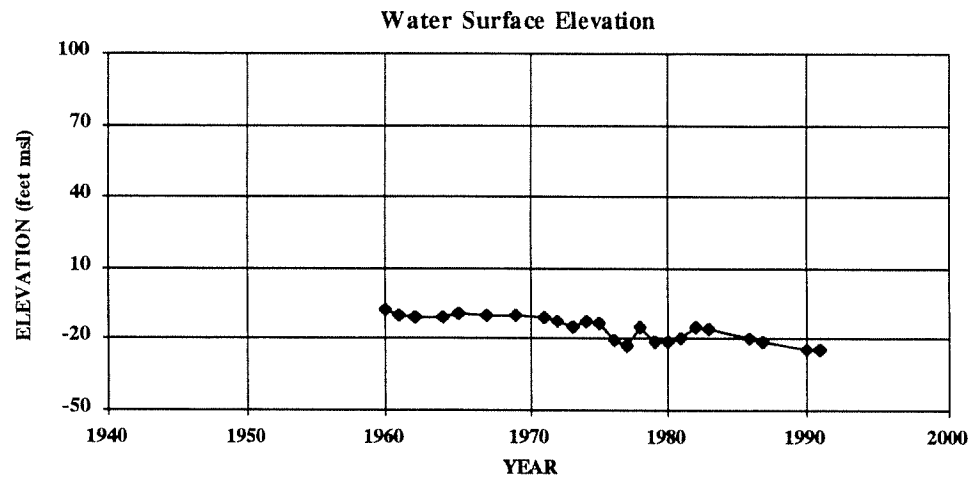
Use: IRRIGATION

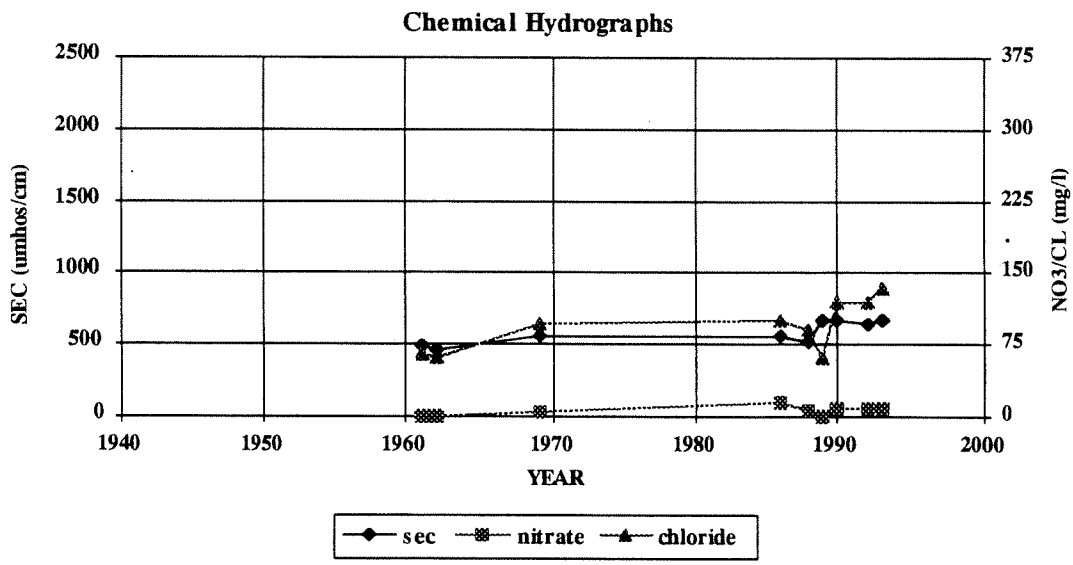
Ground Surface Elevation: 100

Perforation Rng Elevations -68 - -524

Depth: 624

Perforation Range: 168 - 624



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-12D01

Area: PRUNEDALE

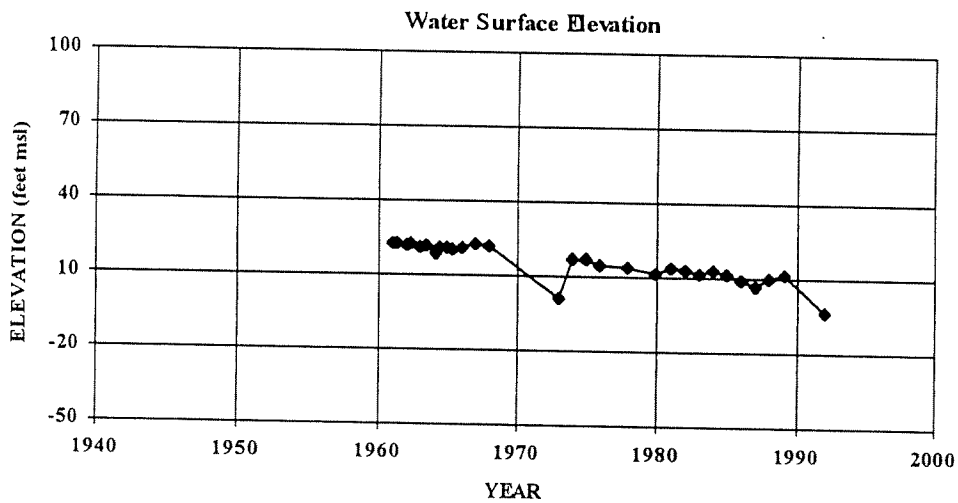
Use: IRRIGATION

Ground Surface Elevation: 190

Perforation Rng Elevations: -26 - -206

Depth: 396

Perforation Range: 216 - 396



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-12K01

Area: PRUNEDALE

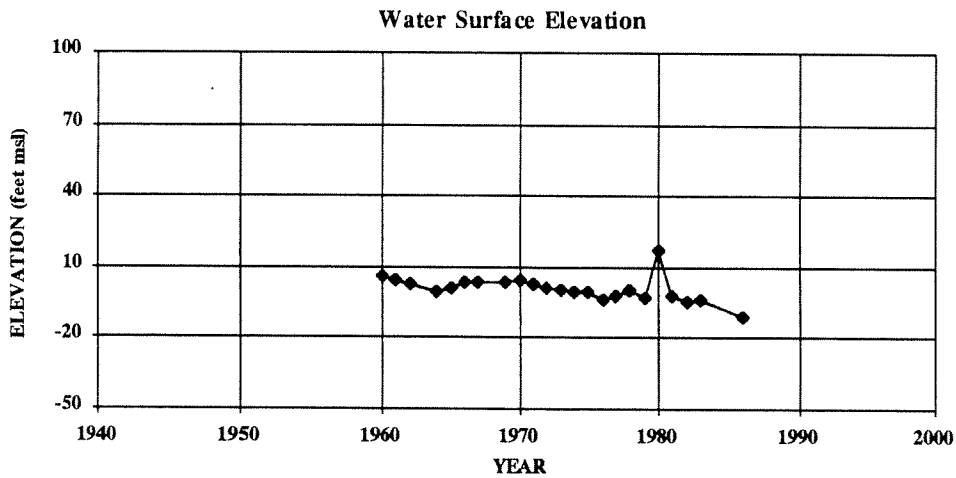
Use: DOMESTIC

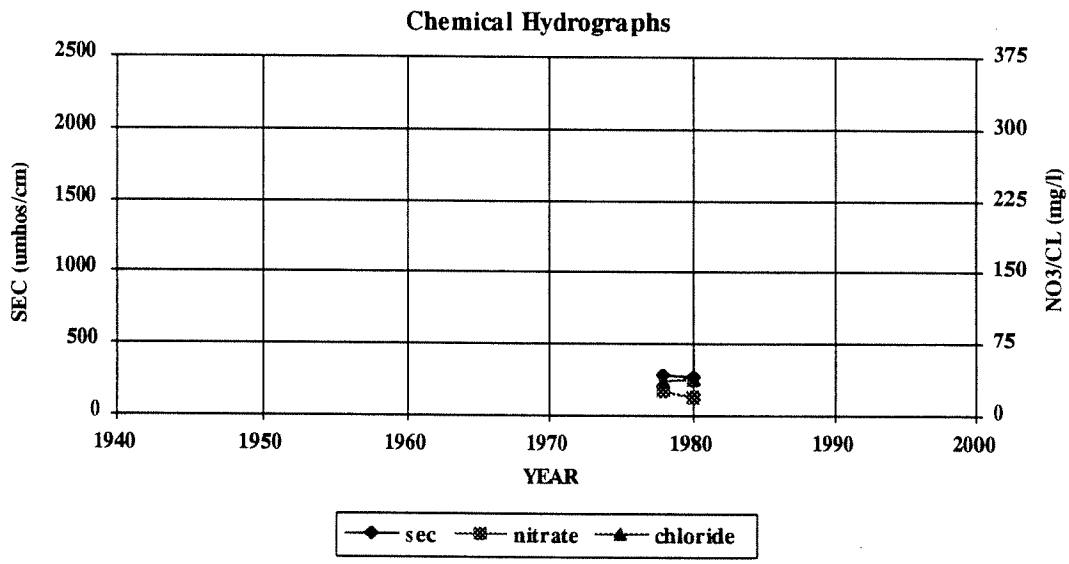
Ground Surface Elevation: 180

Perforation Rng Elevations 11 - -21

Depth: 205

Perforation Range: 169 - 201



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-13N01

Area: PRUNEDALE

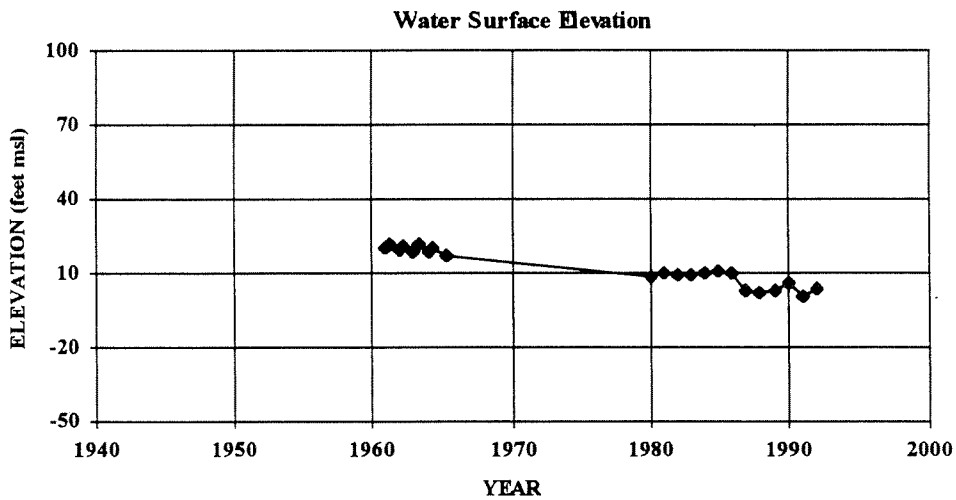
Use: IRRIGATION

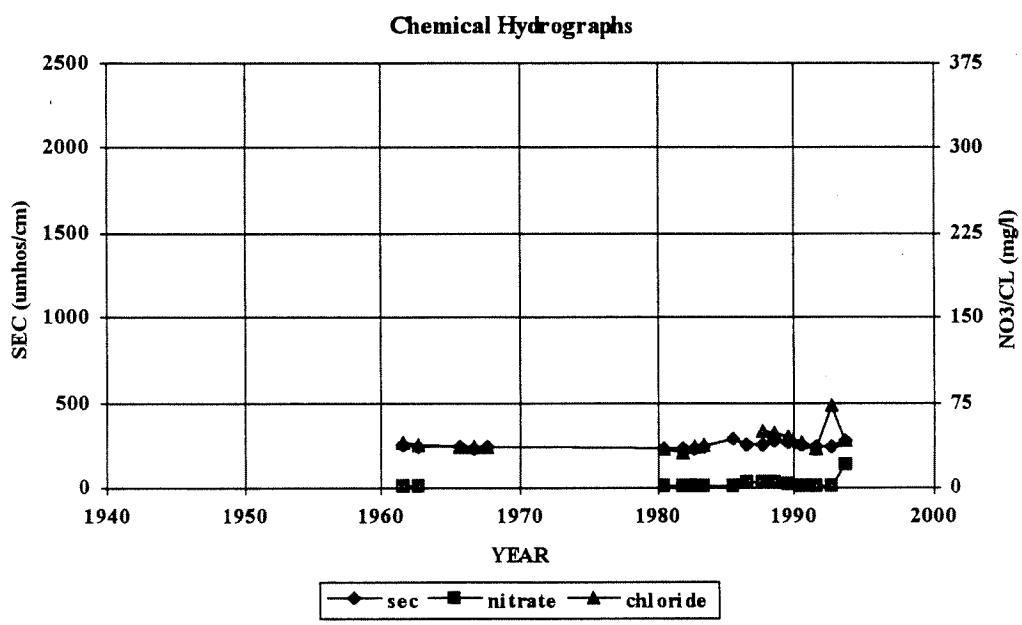
Ground Surface Elevation: 78

Perforation Rng Elevations: -54 - -114

Depth: 200

Perforation Range: 132 - 192



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-14C01

Area: PRUNEDALE

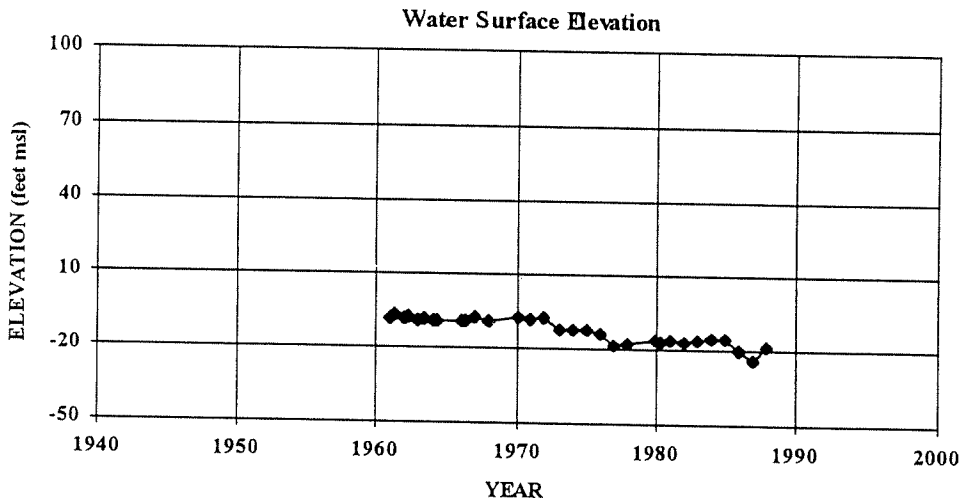
Use: IRRIGATION

Ground Surface Elevation: 160

Perforation Rng Elevations: -16 - -76

Depth: 244

Perforation Range: 176 - 236



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-26L01

Area: PRUNEDALE

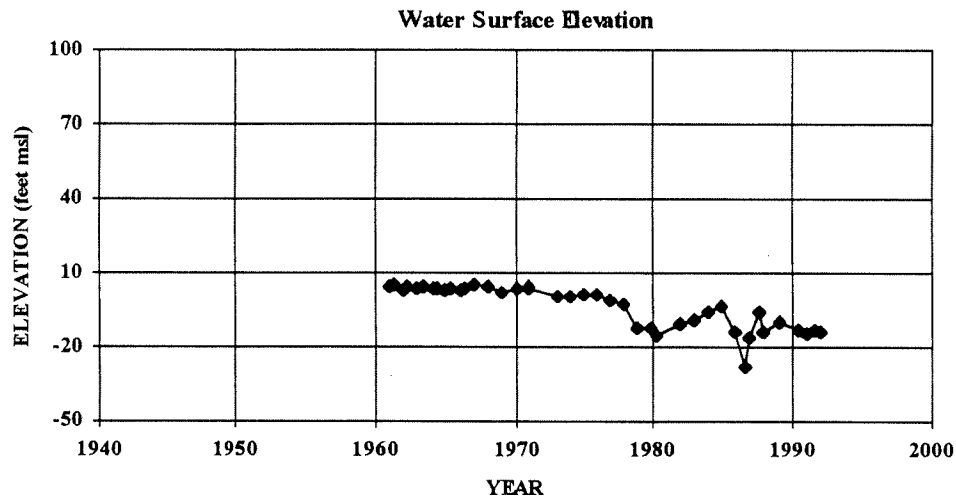
Use: IRRIGATION

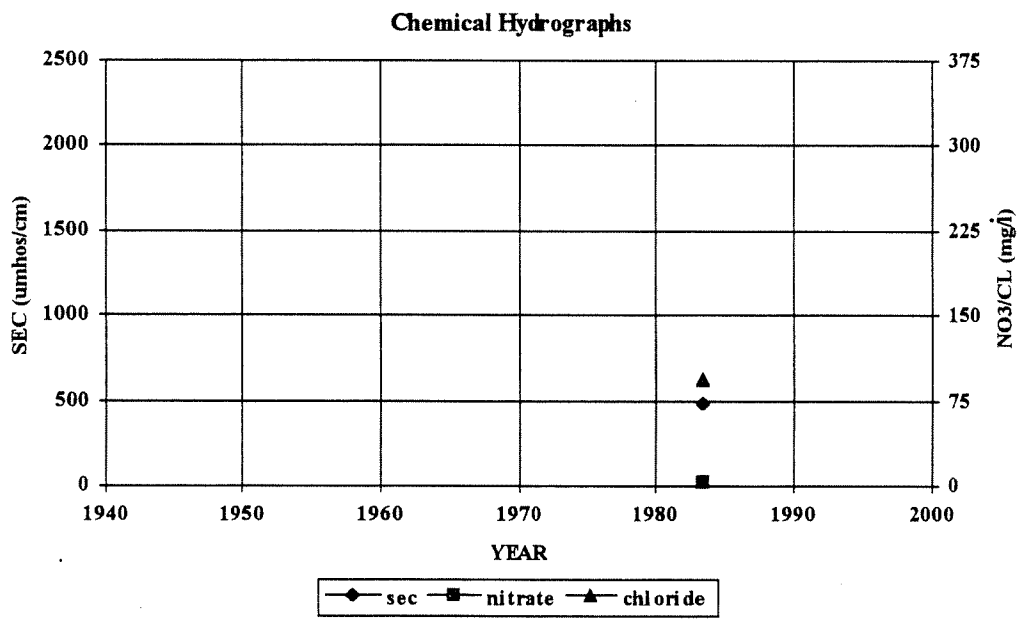
Ground Surface Elevation: 110

Perforation Rng Elevations: - No Data

Depth: 250

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-04L01

Area: PRUNEDALE

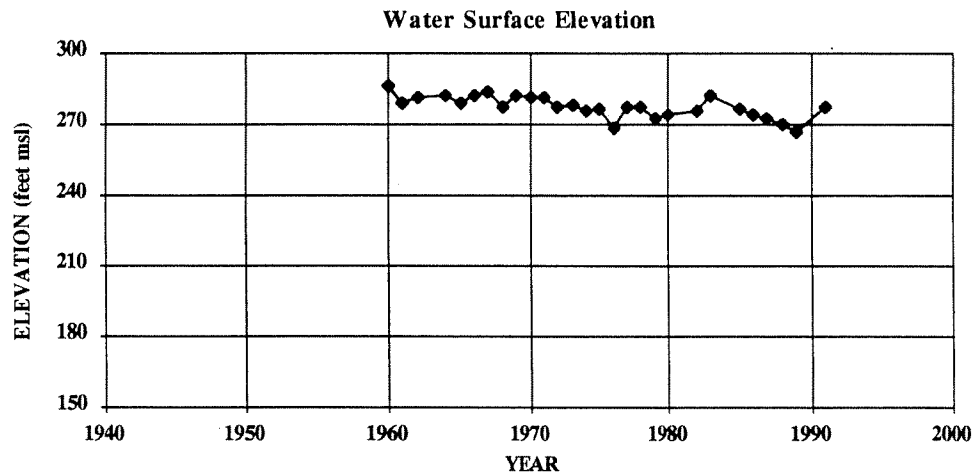
Use: DOMESTIC

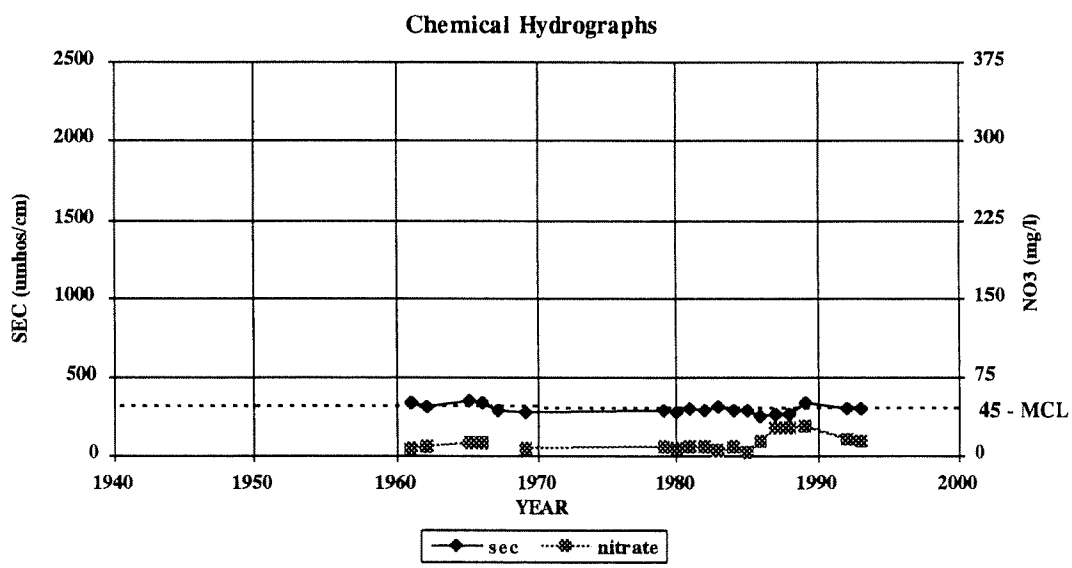
Ground Surface Elevation: 492

Perforation Rng Elevations 280 - 240

Depth: 260

Perforation Range: 212 - 252



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-08D01

Area: PRUNEDALE

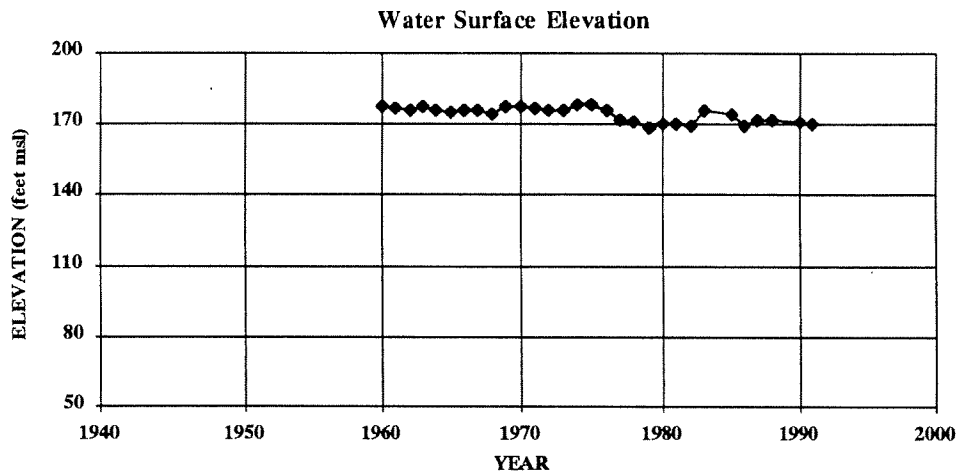
Use: DOMESTIC

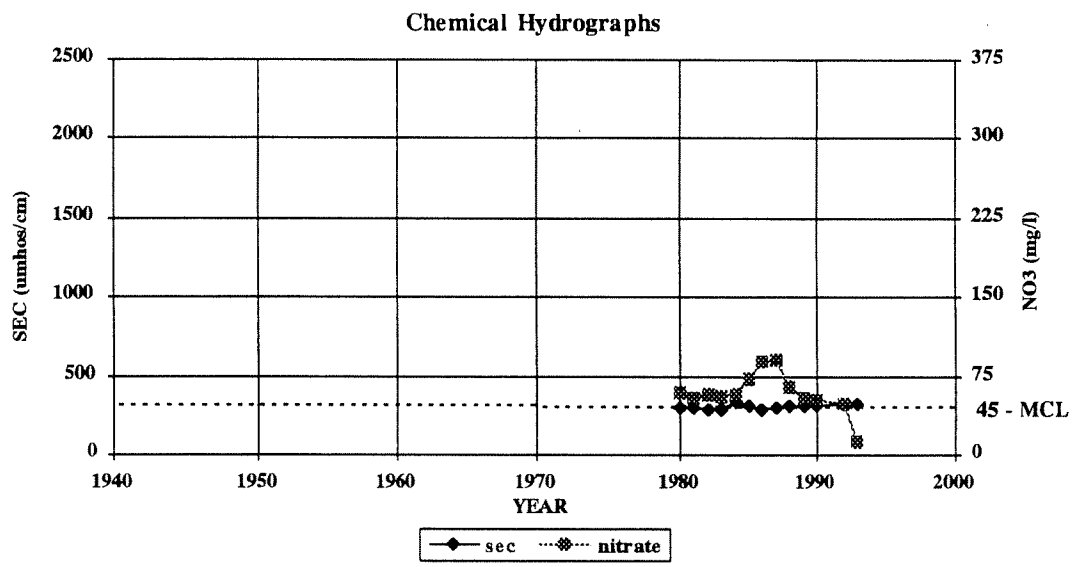
Ground Surface Elevation: 260

Perforation Rng Elevations 170 - 138

Depth: 130

Perforation Range: 90 - 122



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-10N01

Area: PRUNEDALE

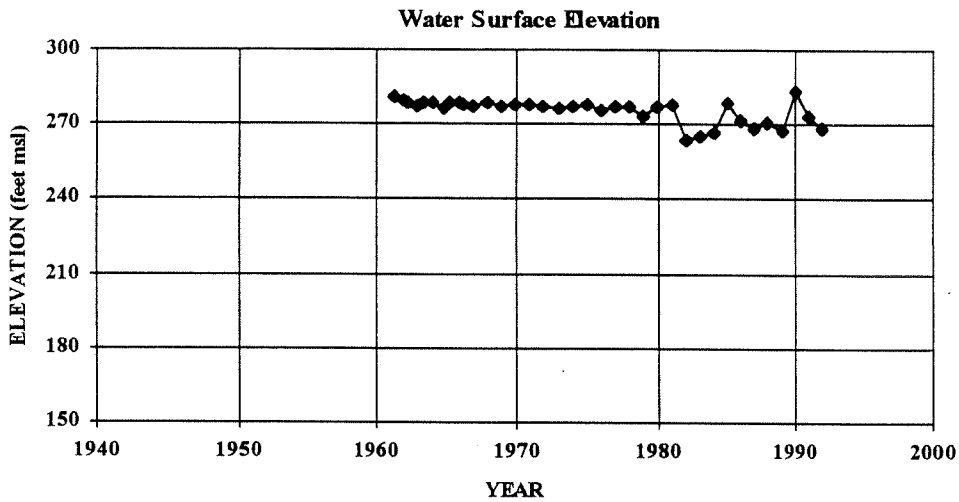
Use: DOMESTIC

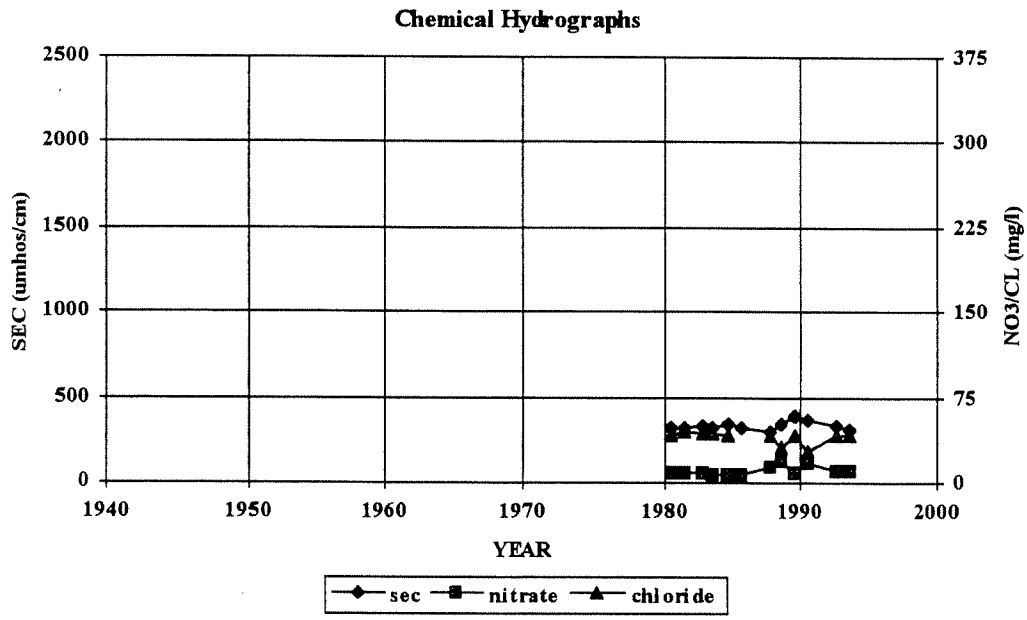
Ground Surface Elevation: 383

Perforation Rng Elevations: - No Data

Depth: 145

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-10Q01

Area: PRUNEDALE

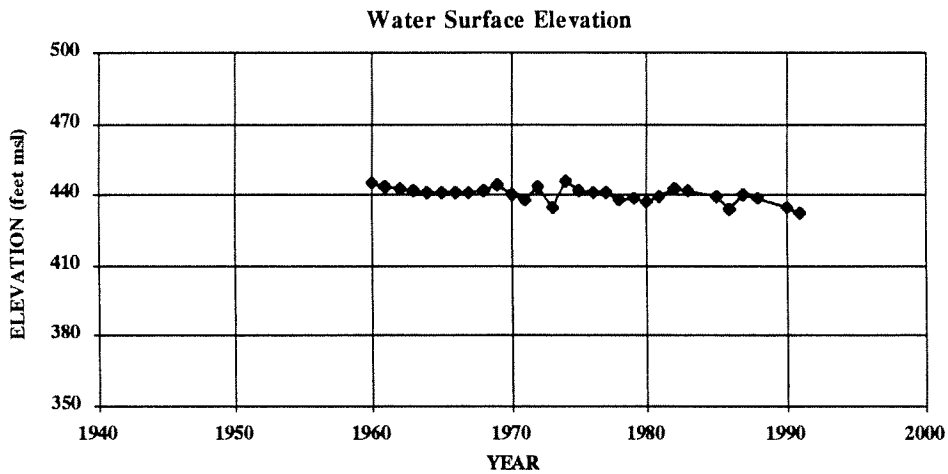
Use: DOMESTIC

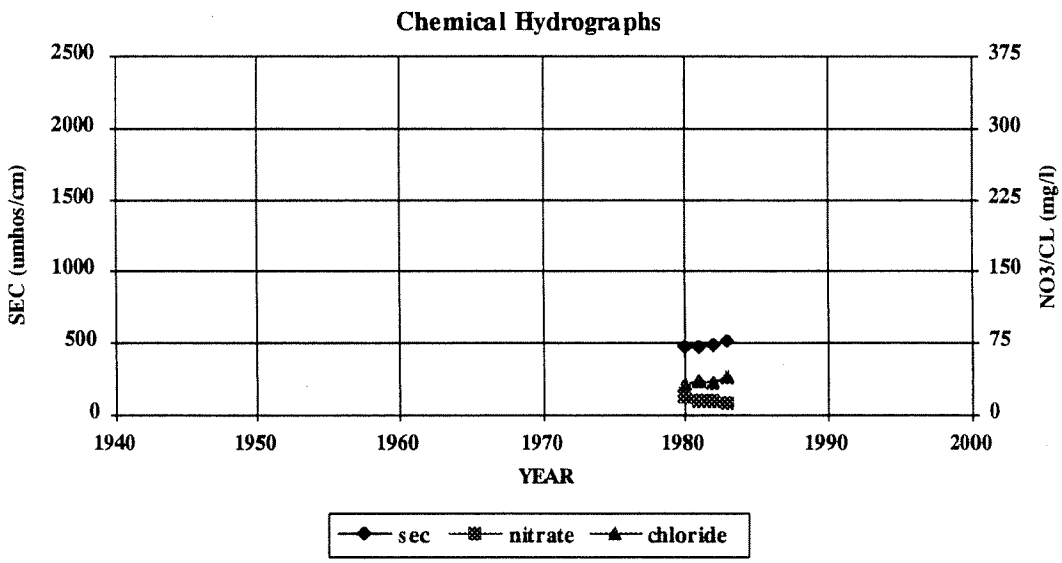
Ground Surface Elevation: 495

Perforation Rng Elevations 434 - 419

Depth: 76

Perforation Range: 61 - 76



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-16C03

Area: PRUNEDALE

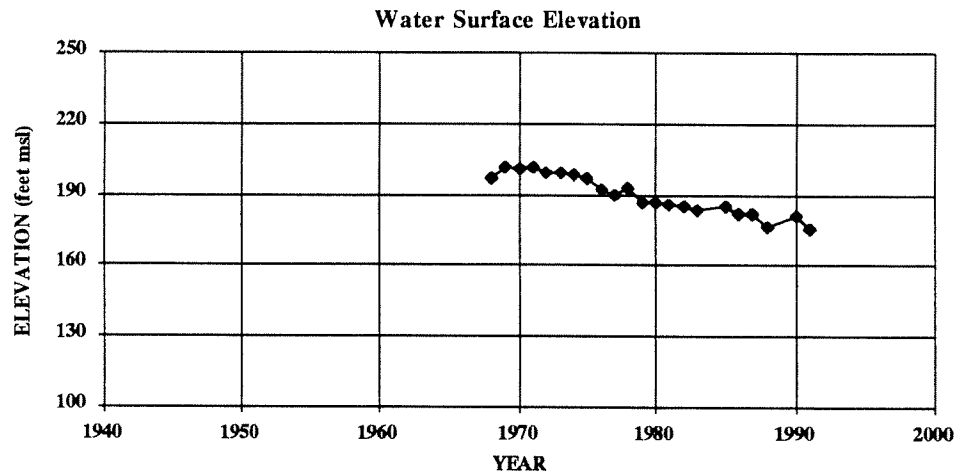
Use: DOMESTIC

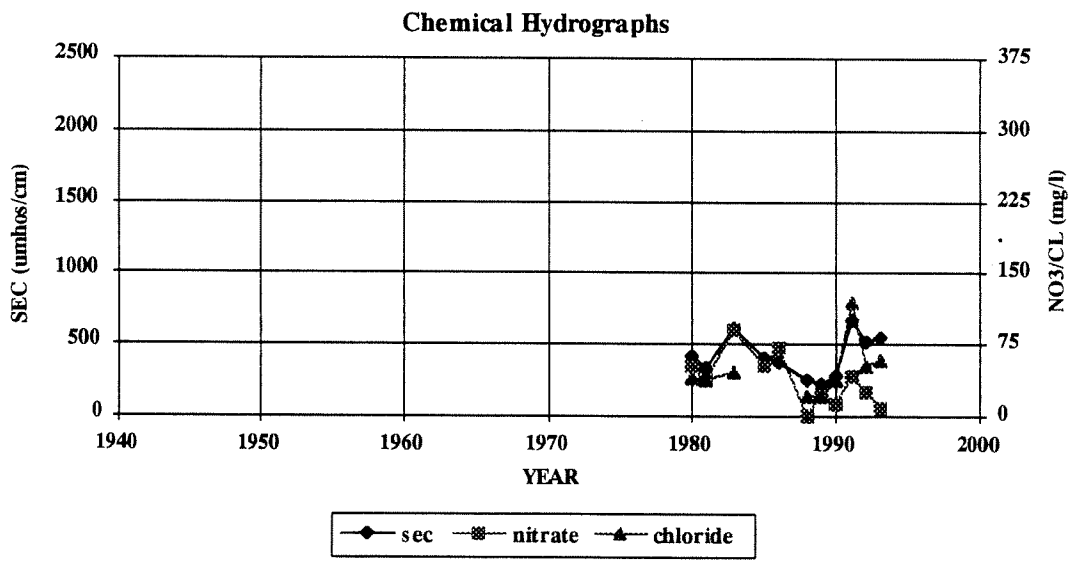
Ground Surface Elevation: 220.5

Perforation Rng Elevations 184.5 - 144.5

Depth: 84

Perforation Range: 36 - 76



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-16J01

Area: PRUNEDALE

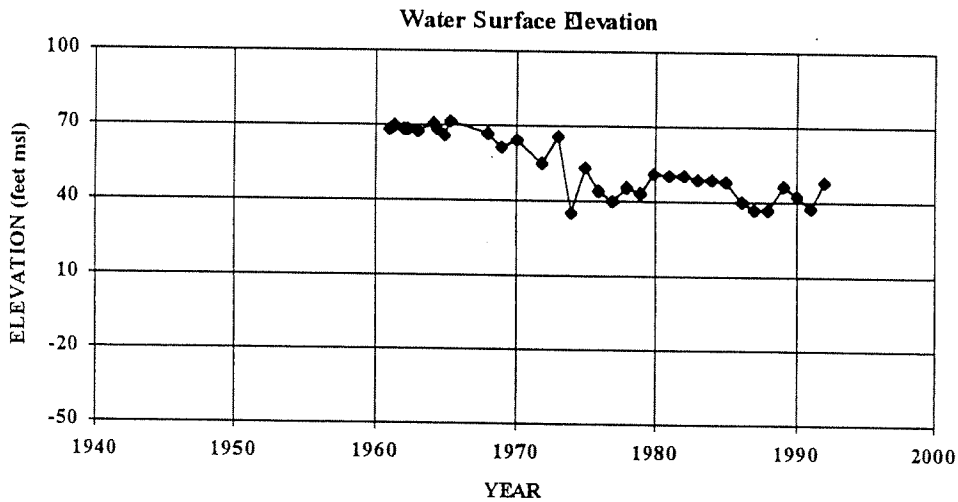
Use: DOMESTIC

Ground Surface Elevation: 270

Perforation Rng Elevations: 166 - 26

Depth: 252

Perforation Range: 104 - 244



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-17B01

Area: PRUNEDALE

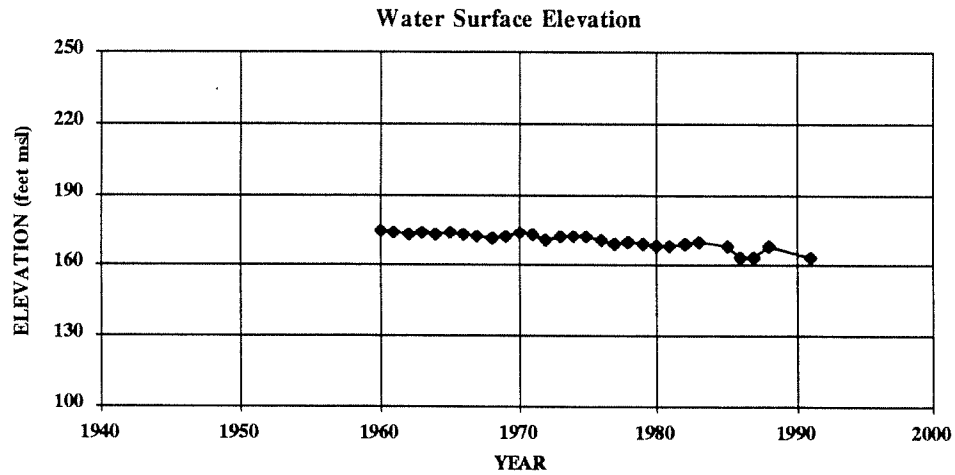
Use: DOMESTIC

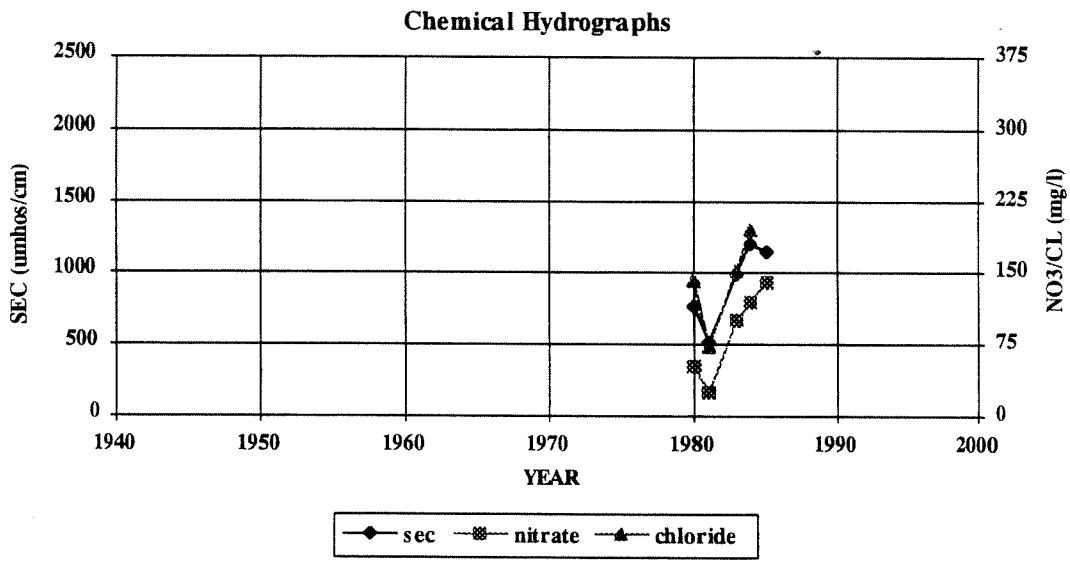
Ground Surface Elevation: 208

Perforation Rng Elevations 169 - 138

Depth: 78

Perforation Range: 39 - 70



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-17F02

Area: PRUNEDALE

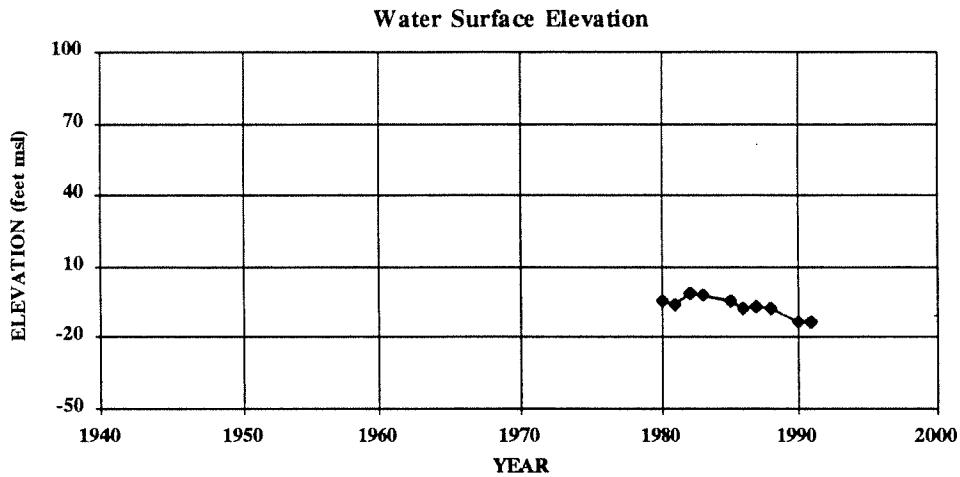
Use: DOMESTIC

Ground Surface Elevation: 220.5

Perforation Rng Elevations -23.5 - -63.5

Depth: 392

Perforation Range: 244 - 284



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-19H01

Area: PRUNEDALE

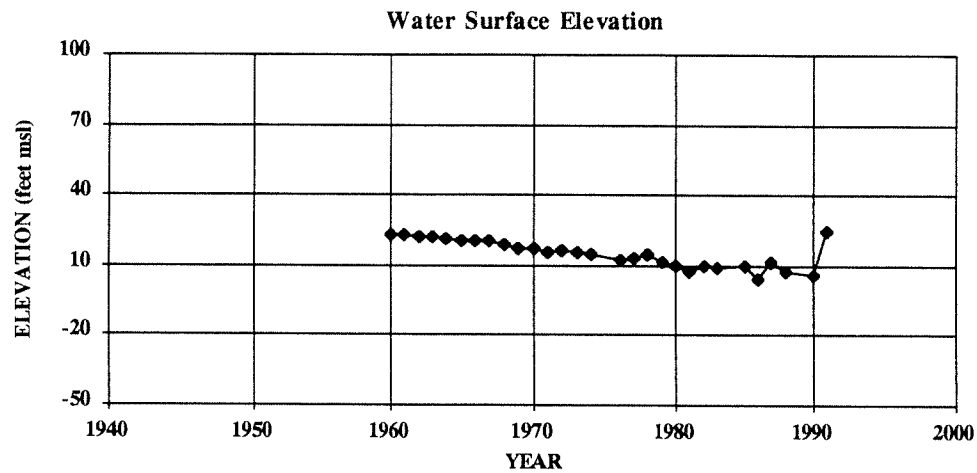
Use: DOMESTIC

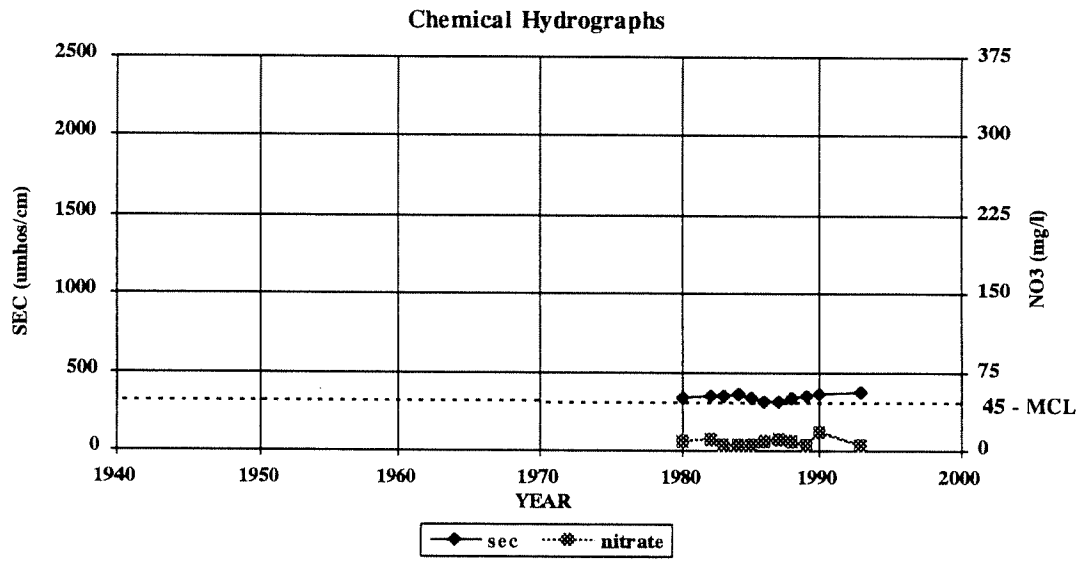
Ground Surface Elevation: 140

Perforation Rng Elevations 8 - -48

Depth: 192

Perforation Range: 132 - 188



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-19Q01

Area: PRUNEDALE

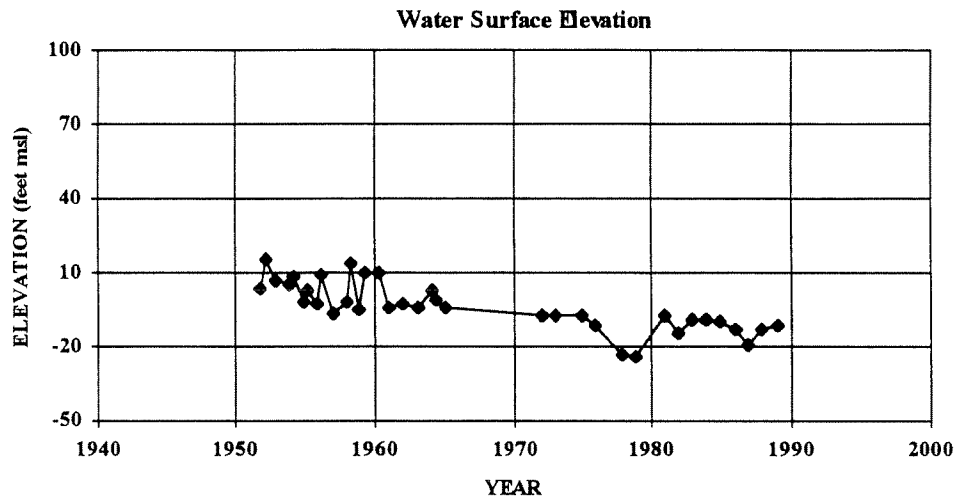
Use: IRRIGATION

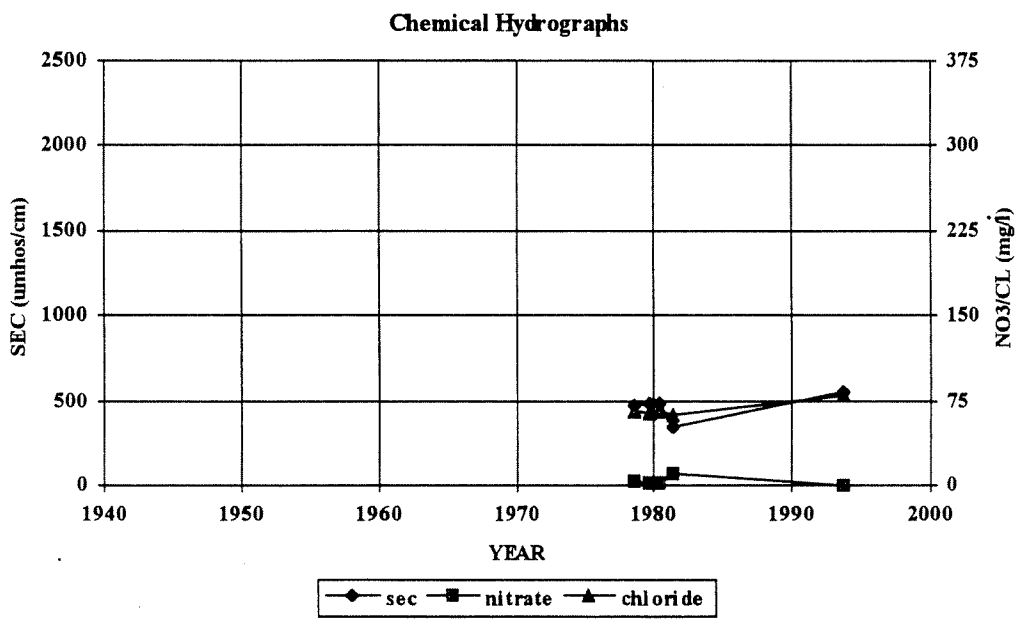
Ground Surface Elevation: 179

Perforation Rng Elevations: - No Data

Depth: 703

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-20B01

Area: PRUNEDALE

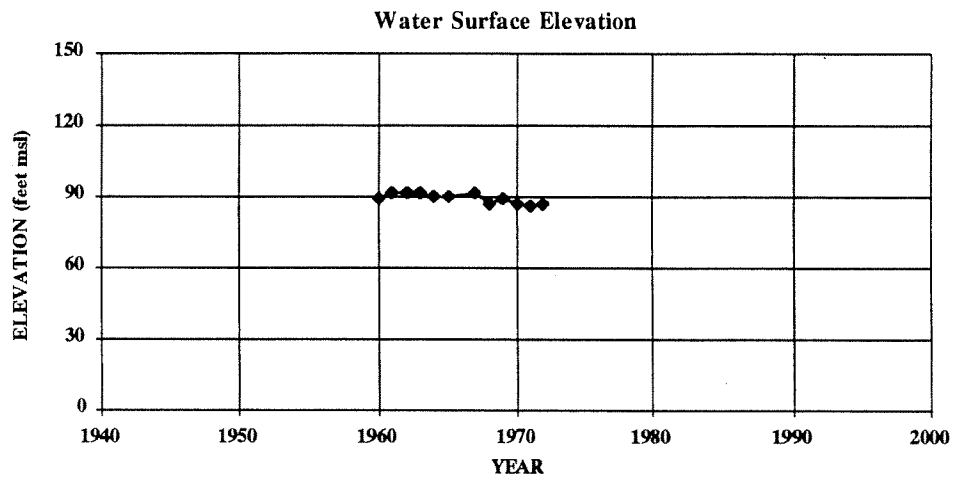
Use: DOMESTIC

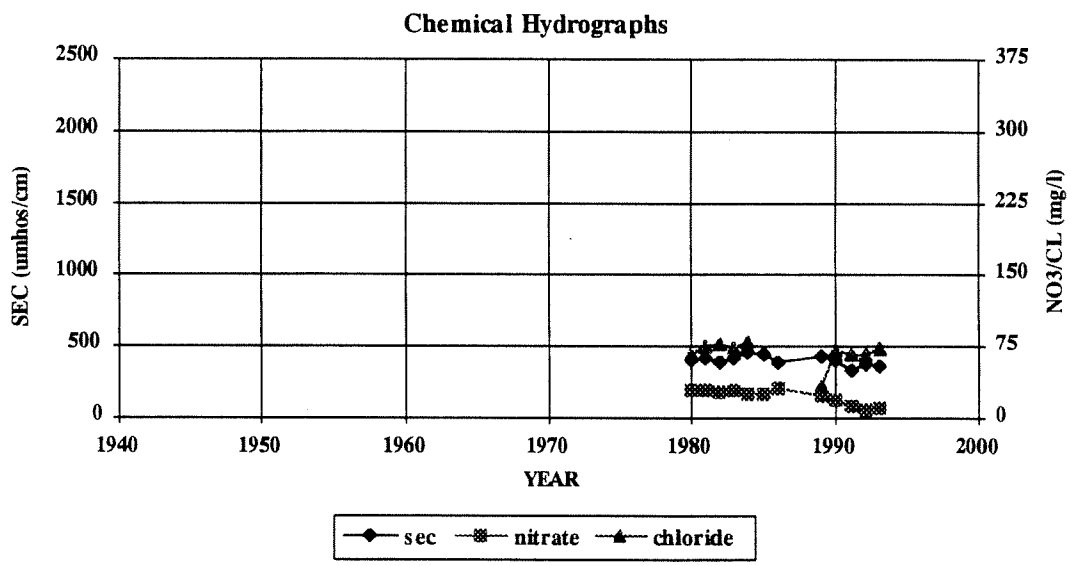
Ground Surface Elevation: 195

Perforation Rng Elevations 95 - 43

Depth: 160

Perforation Range: 100 - 152



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-20B02

Area: PRUNEDALE

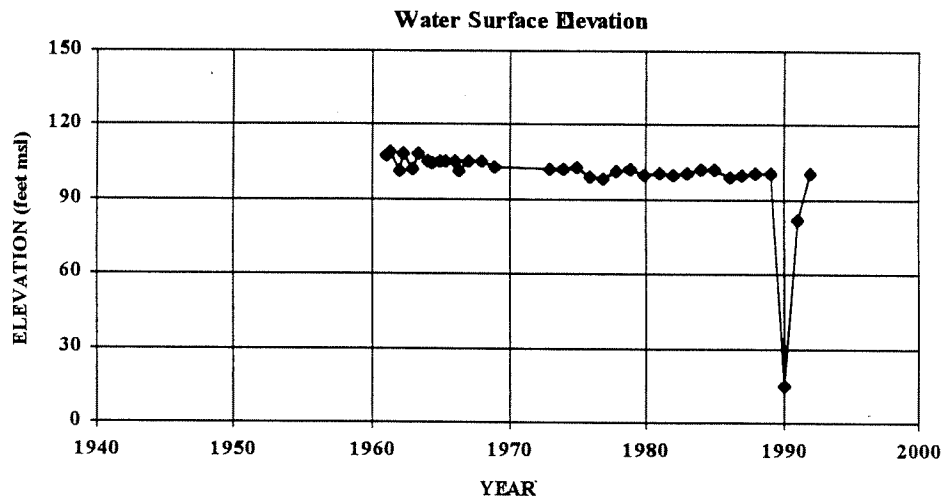
Use: IRRIGATION

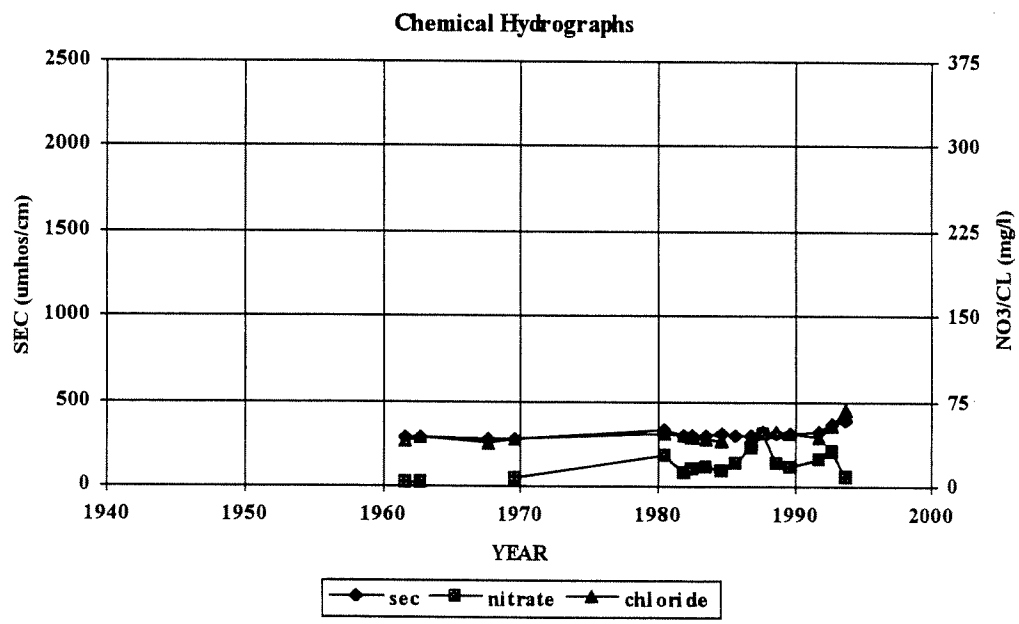
Ground Surface Elevation: 200

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-20P01

Area: PRUNEDALE

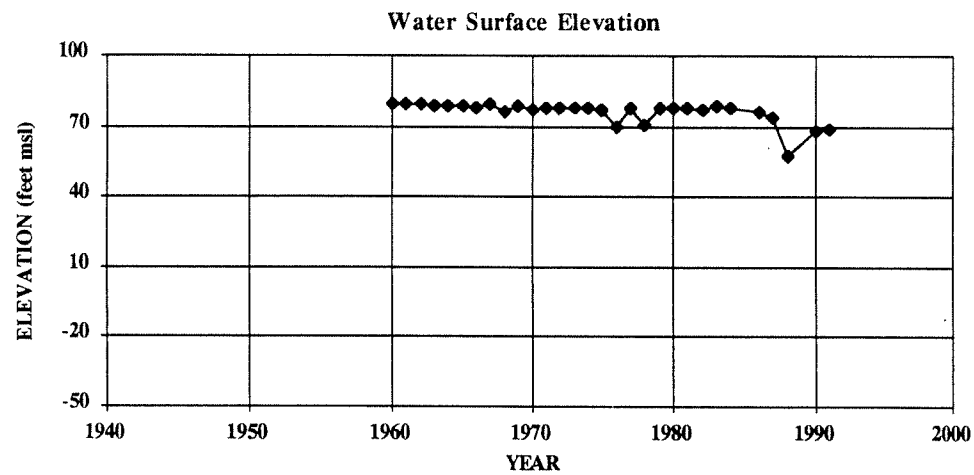
Use: IRRIGATION

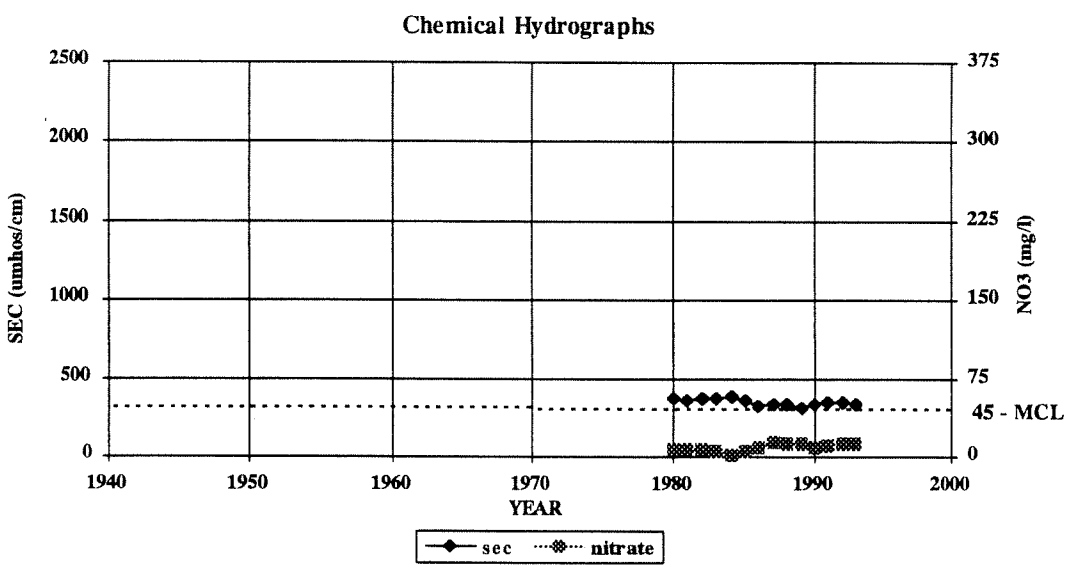
Ground Surface Elevation: 223

Perforation Rng Elevations 75 - 59

Depth: 192

Perforation Range: 148 - 164



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-27D01

Area: PRUNEDALE

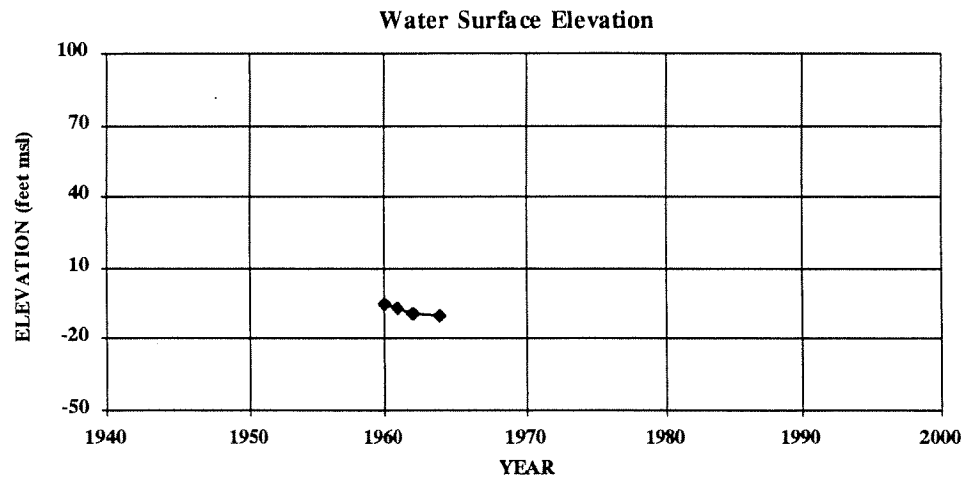
Use: DOMESTIC

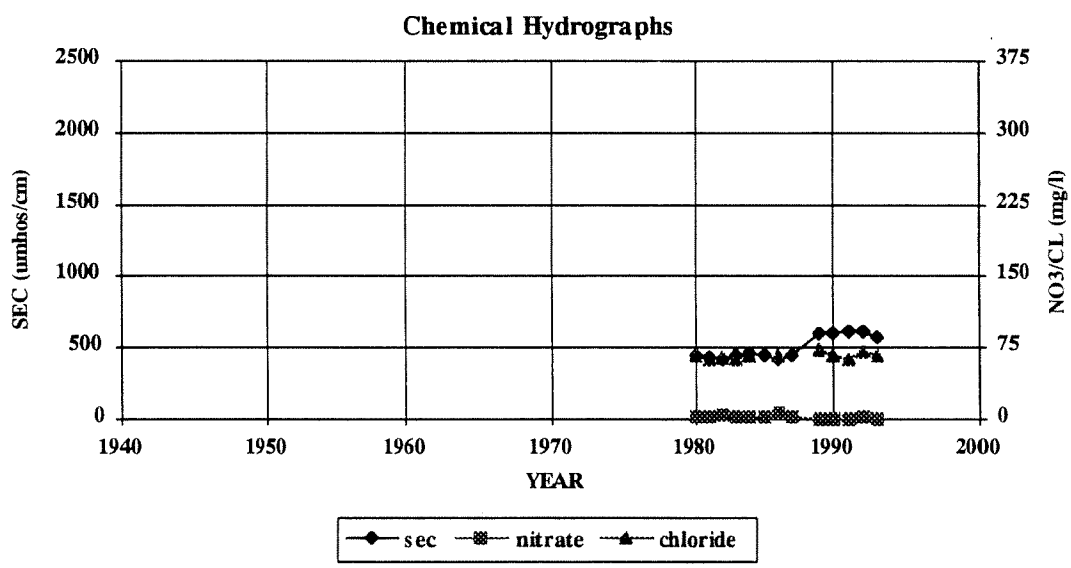
Ground Surface Elevation: 218

Perforation Rng Elevations -18 - -50

Depth: 276

Perforation Range: 236 - 268



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-29A01

Area: PRUNEDALE

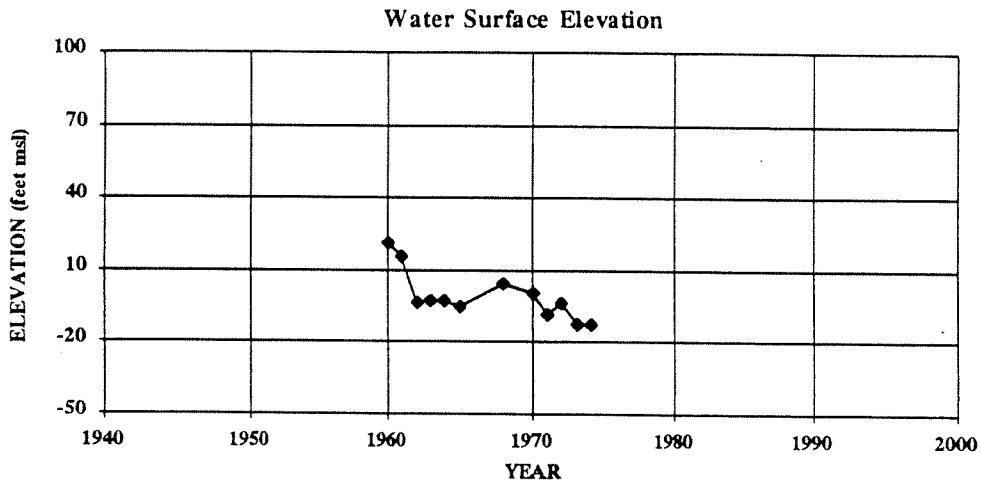
Use: DOMESTIC

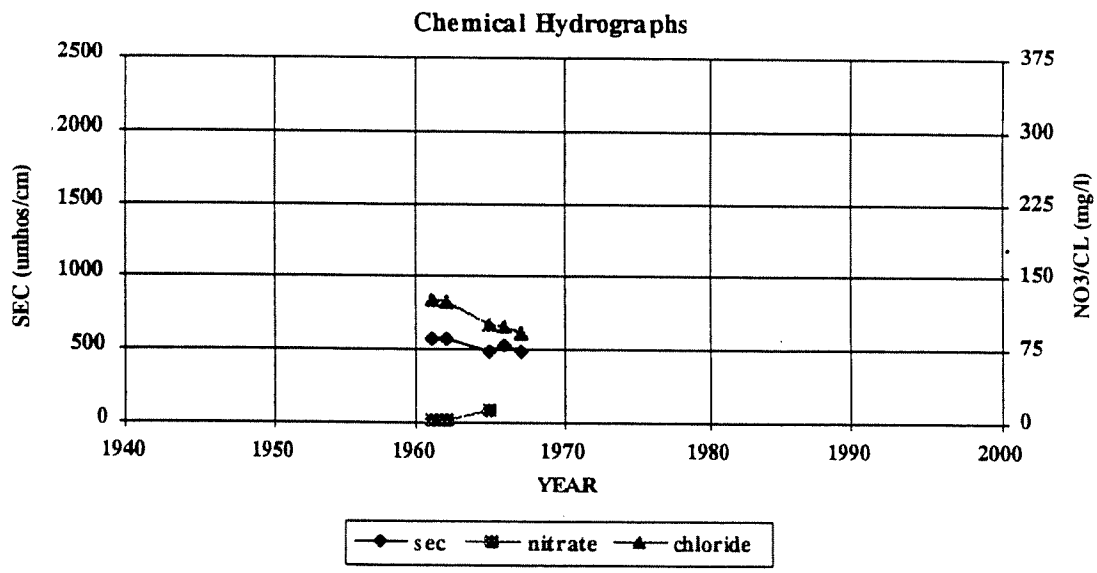
Ground Surface Elevation: 70

Perforation Rng Elevations 30 - -122

Depth: 200

Perforation Range: 40 - 192



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-10D01

Area: PAJARO-SPRINGFIELD

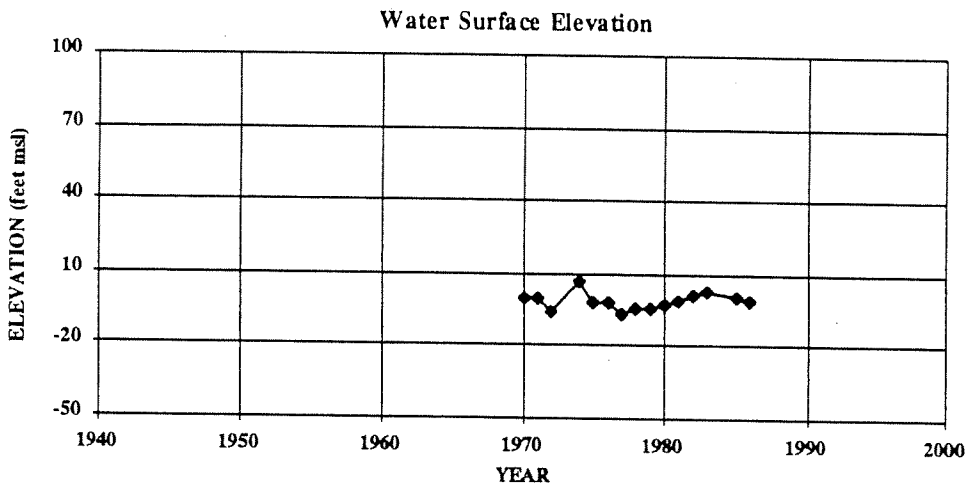
Use: IRRIGATION

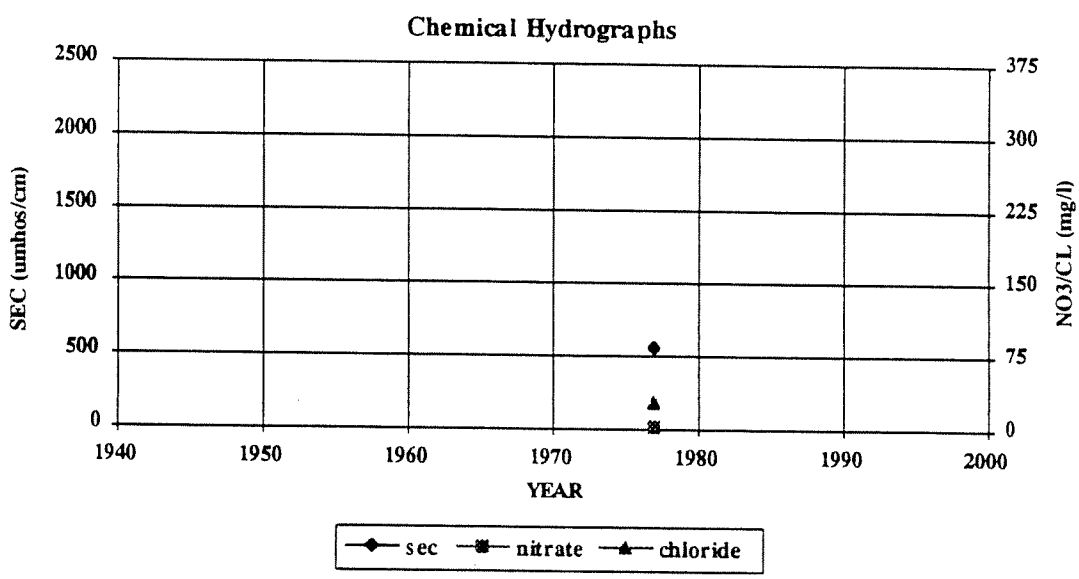
Ground Surface Elevation: 29.9

Perforation Rng Elevations -90.1 - -282.1

Depth: 424

Perforation Range: 120 - 312



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-10J02

Area: PAJARO-SPRINGFIELD

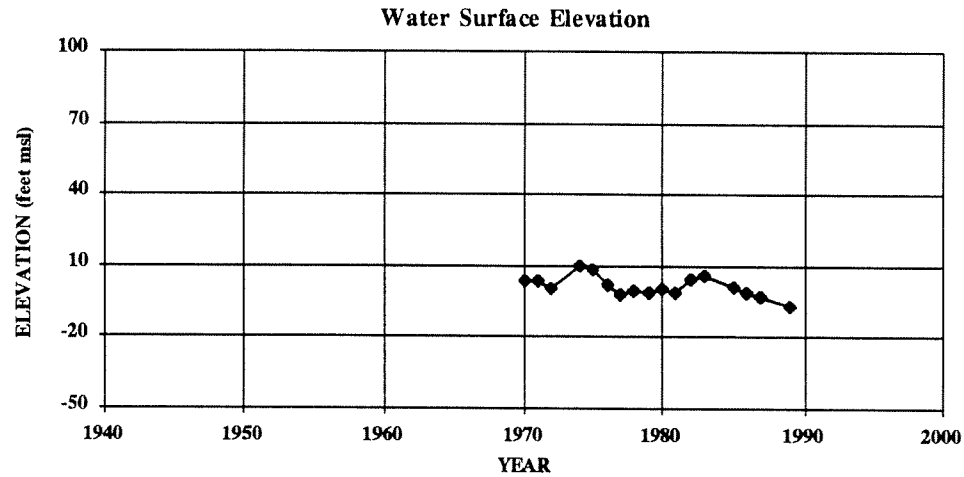
Use: IRRIGATION

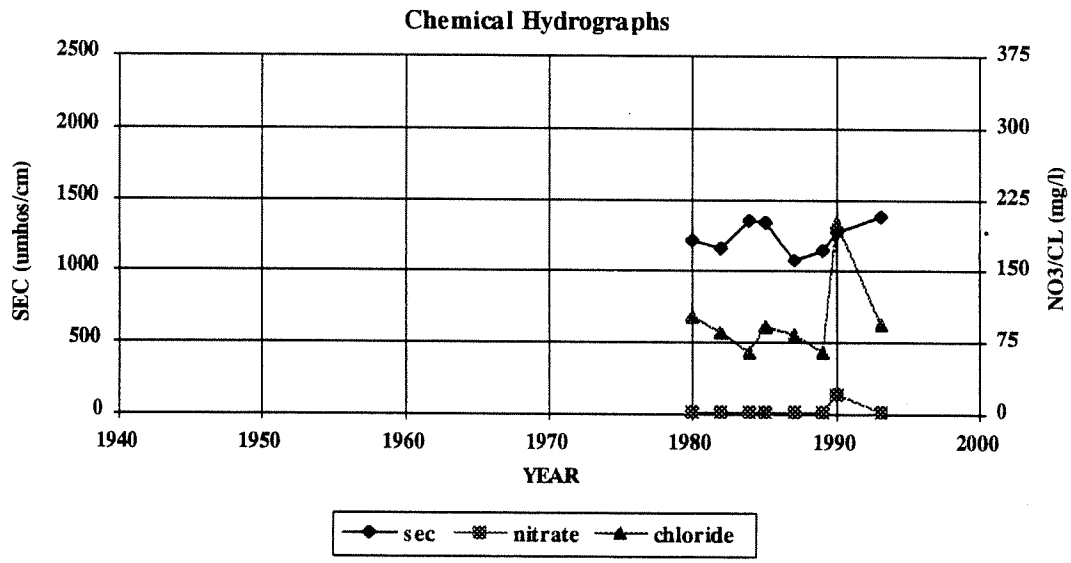
Ground Surface Elevation: 32.9

Perforation Rng Elevations -46.1 - -122.1

Depth: 186

Perforation Range: 79 - 155



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-11E04

Area: PAJARO-SPRINGFIELD

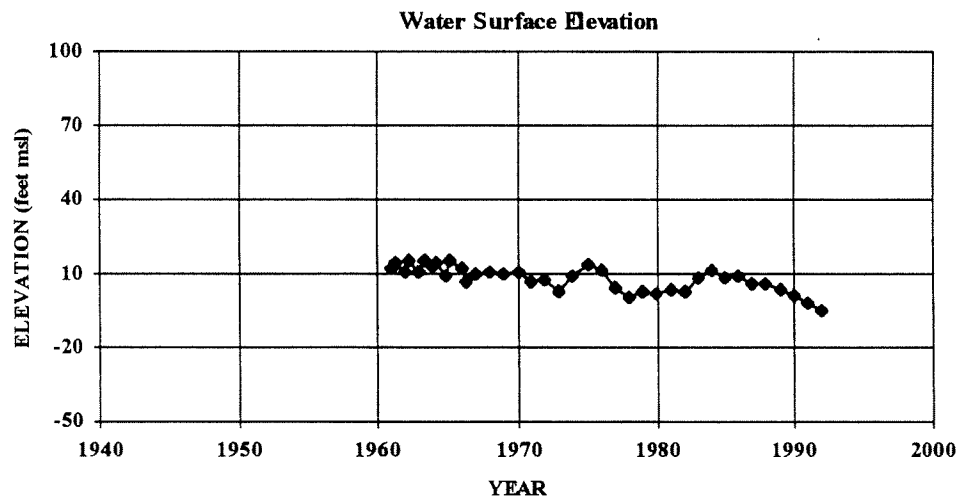
Use: IRRIGATION

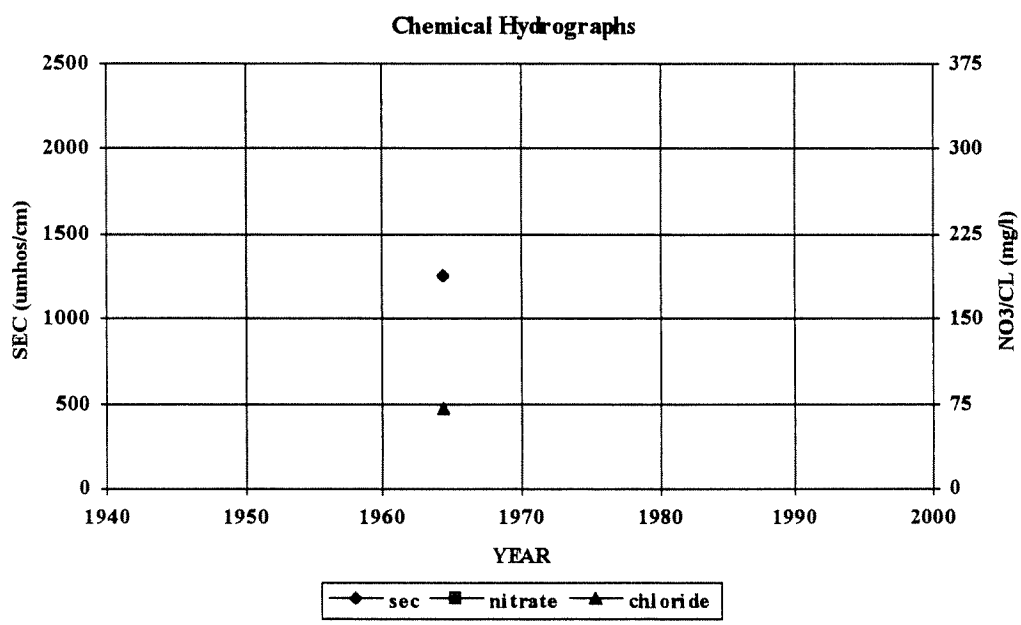
Ground Surface Elevation: 37.8

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-12E01

Area: PAJARO-SPRINGFIELD

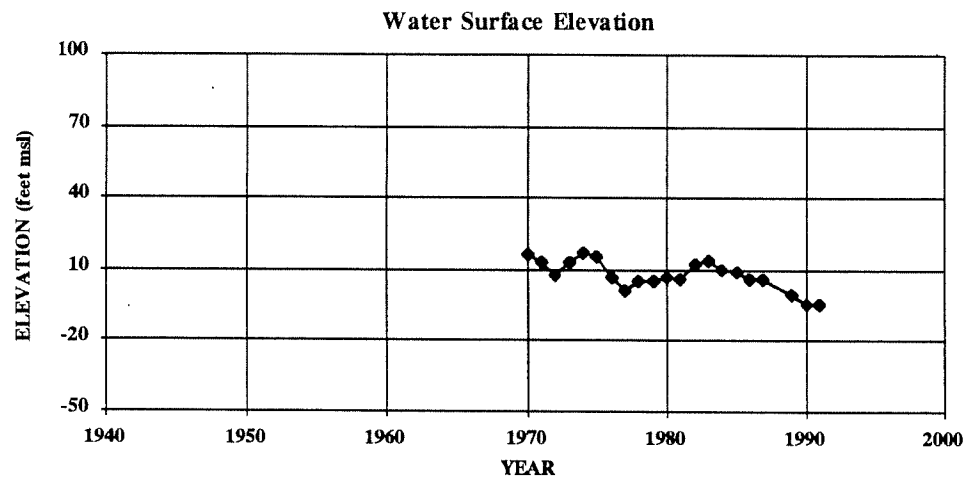
Use: IRRIGATION

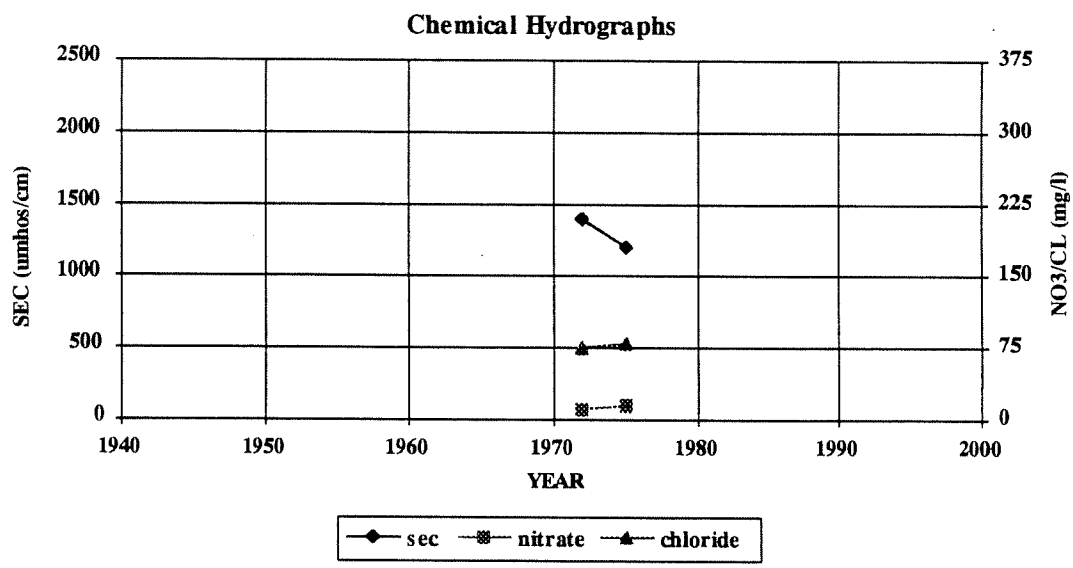
Ground Surface Elevation: 47

Perforation Rng Elevations -83 - -121

Depth: 168

Perforation Range: 130 - 168



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-12J01

Area: PAJARO-SPRINGFIELD

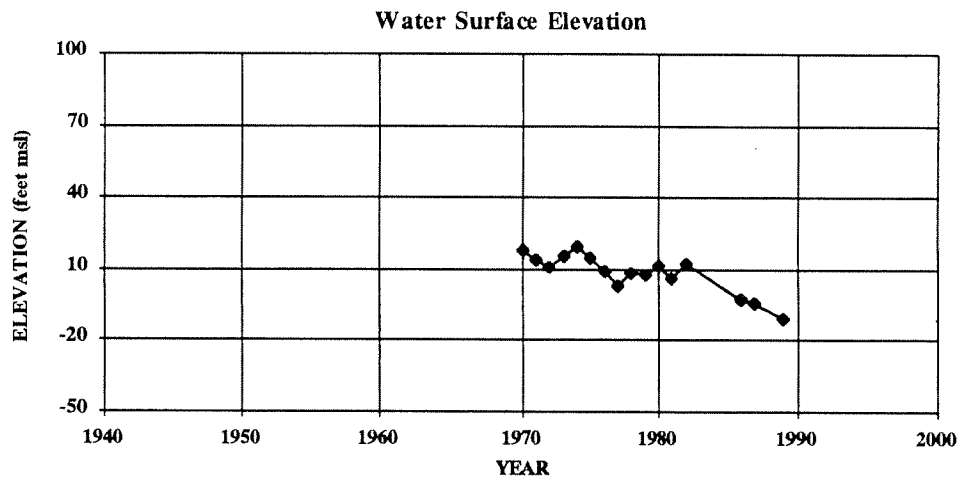
Use: IRRIGATION

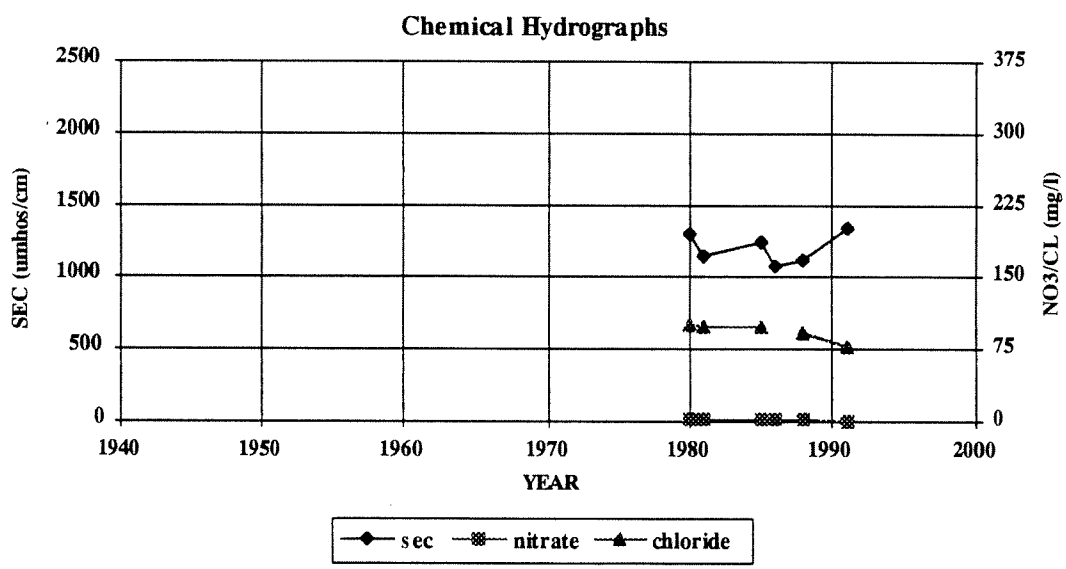
Ground Surface Elevation: 56.6

Perforation Rng Elevations -66.4 - -105.4

Depth: 167

Perforation Range: 123 - 162



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-12K01

Area: PAJARO-SPRINGFIELD

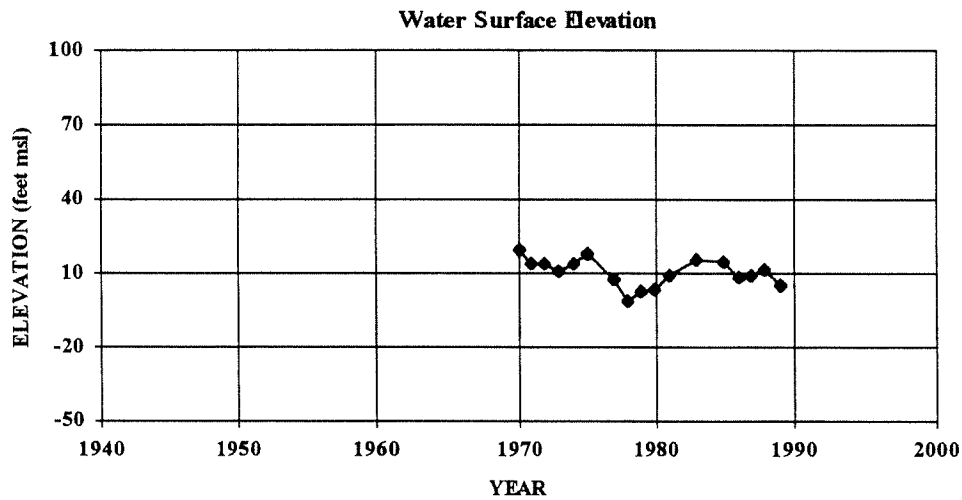
Use: IRRIGATION

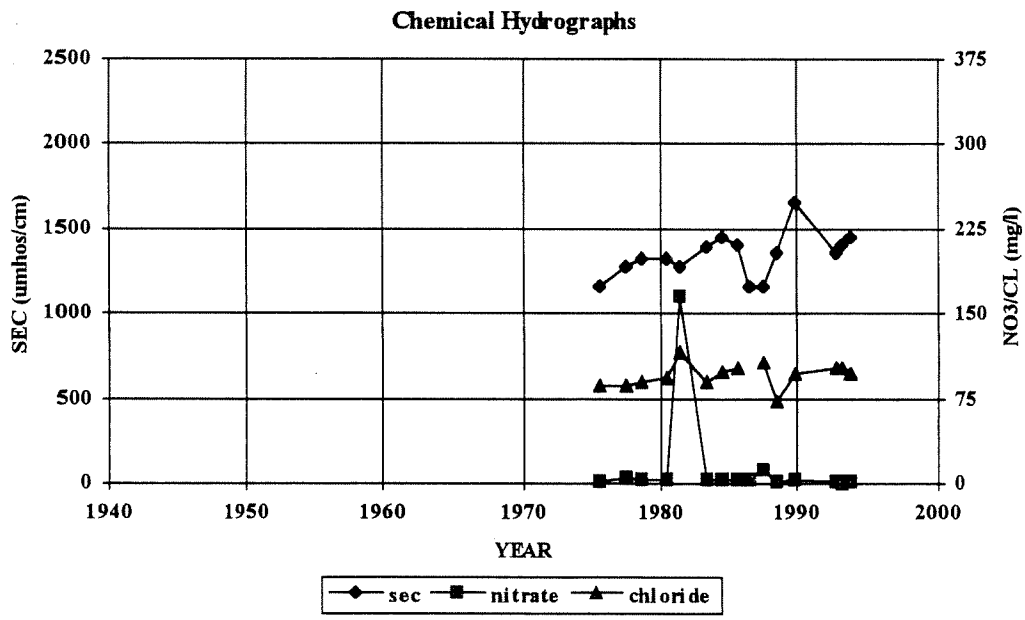
Ground Surface Elevation: 53.5

Perforation Rng Elevations: -71.5 - -121.5

Depth: 180

Perforation Range: 125 - 175



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-15E01

Area: PAJARO-SPRINGFIELD

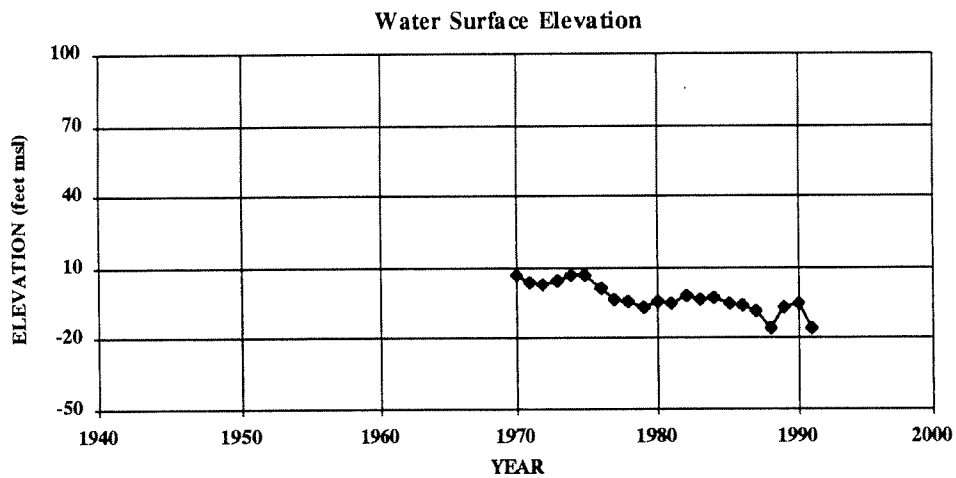
Use: IRRIGATION

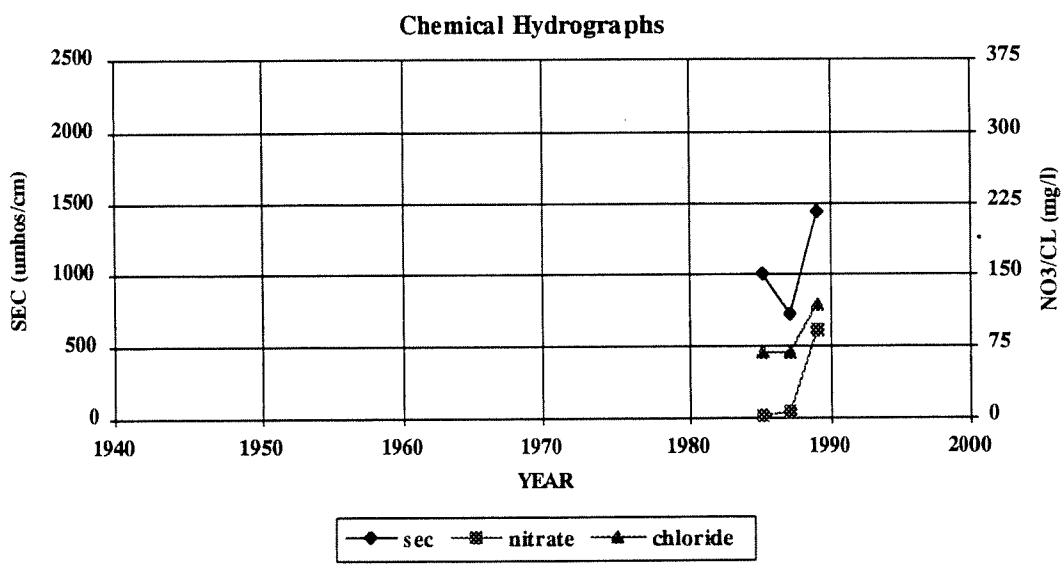
Ground Surface Elevation: 25.2

Perforation Rng Elevations -64.8 - -258.8

Depth: 320

Perforation Range: 90 - 284



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-16F01

Area: PAJARO-SPRINGFIELD

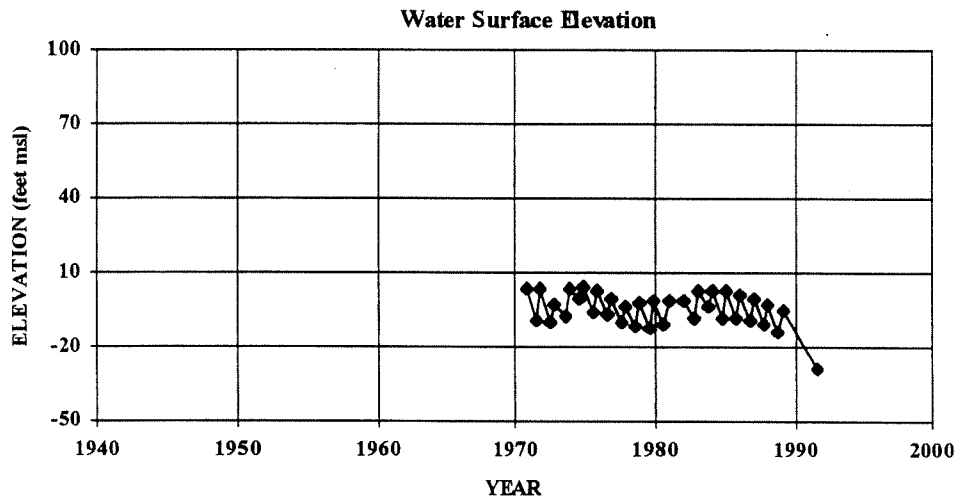
Use: IRRIGATION

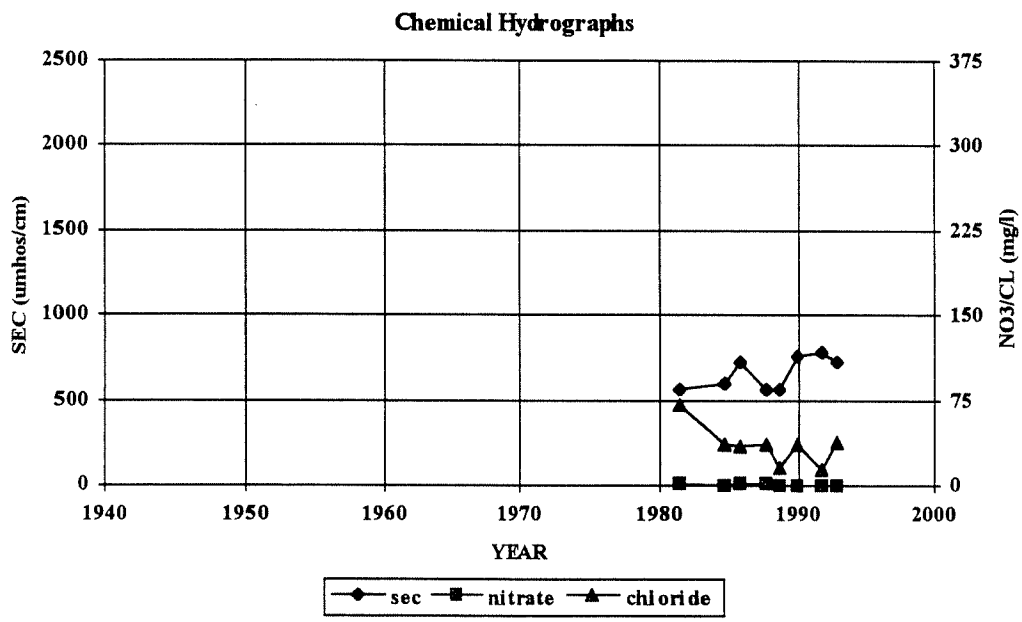
Ground Surface Elevation: 22.5

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-16J01

Area: PAJARO-SPRINGFIELD

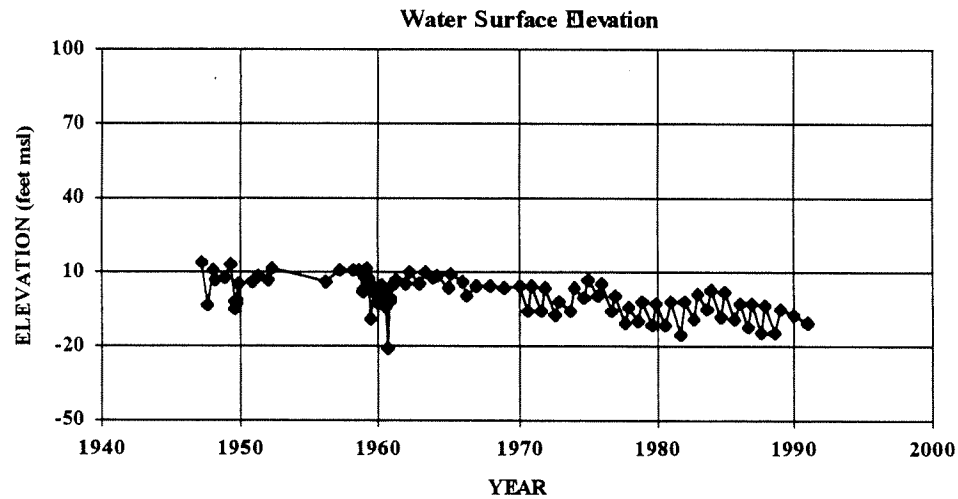
Use: IRRIGATION

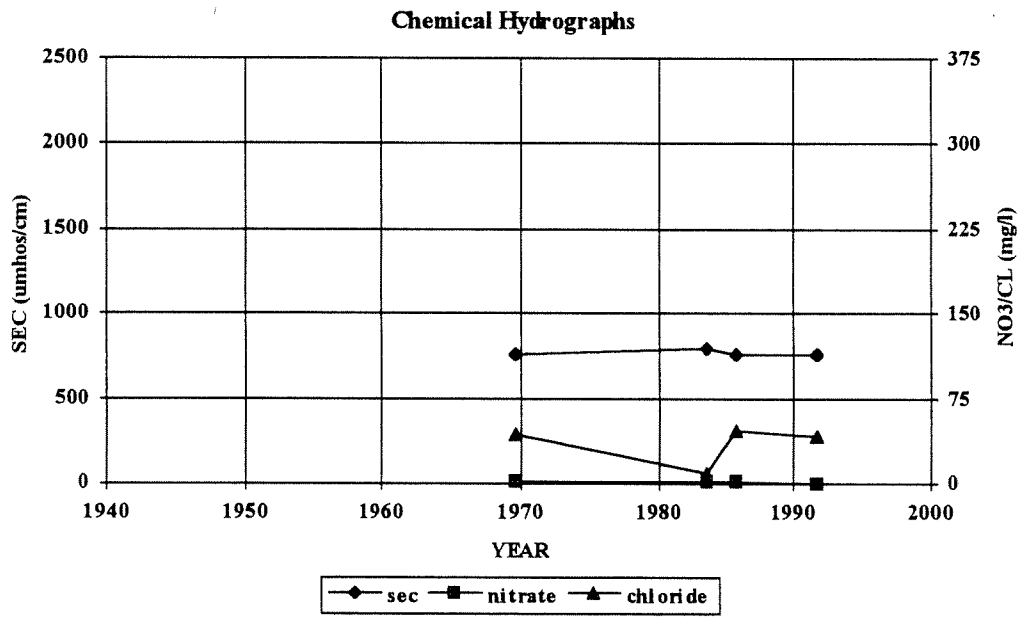
Ground Surface Elevation: 21.7

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-16L01

Area: PAJARO-SPRINGFIELD

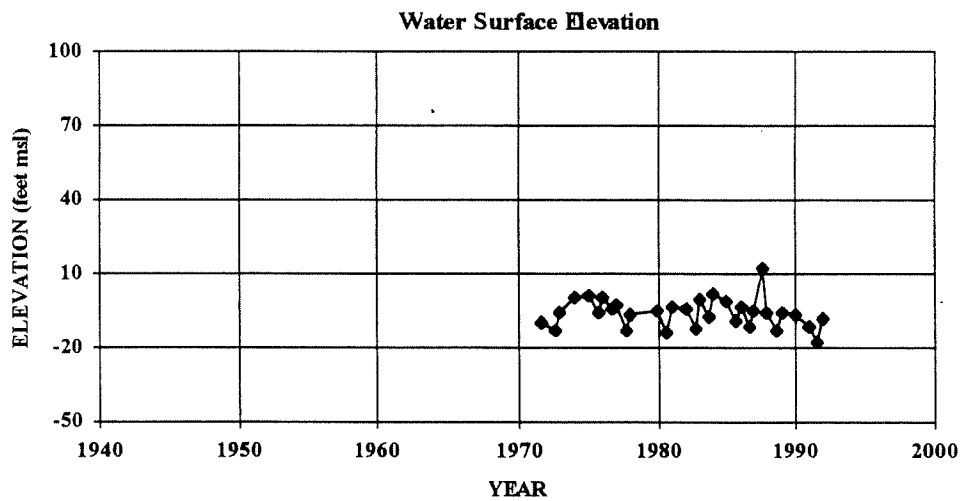
Use: IRRIGATION

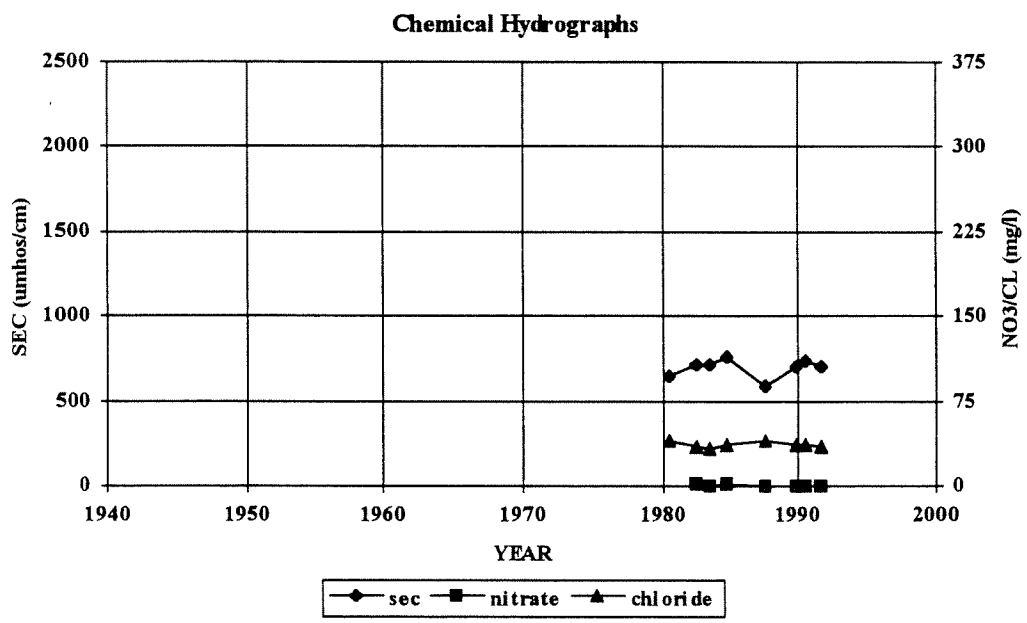
Ground Surface Elevation: 21.4

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-16Q01

Area: PAJARO-SPRINGFIELD

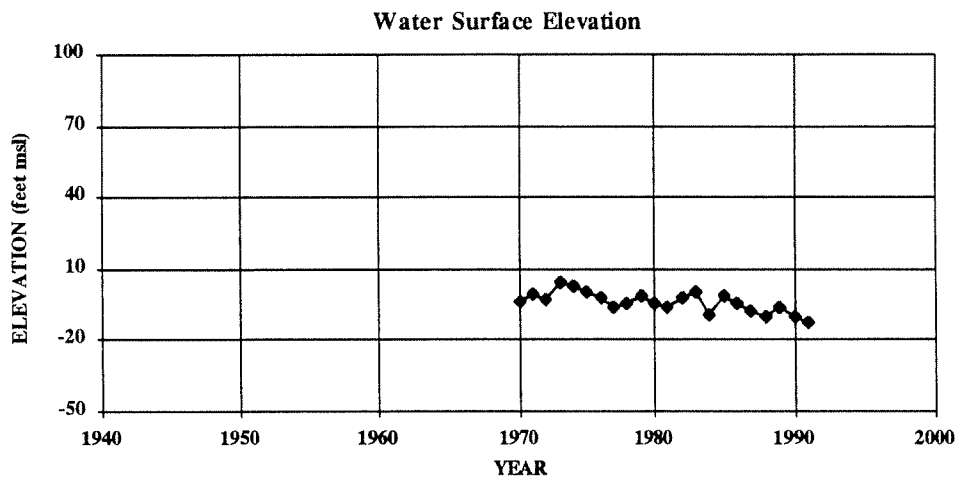
Use: IRRIGATION

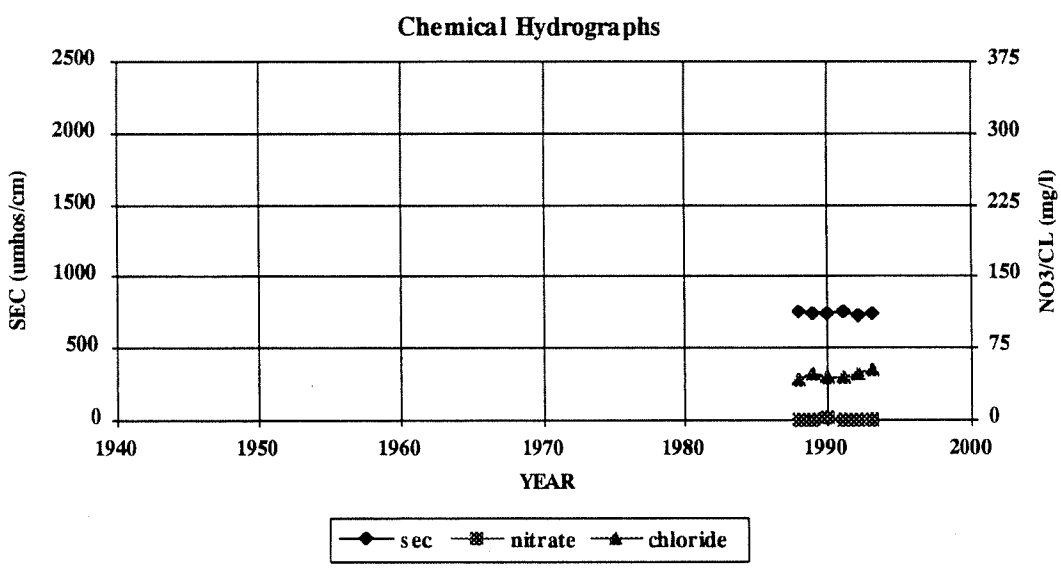
Ground Surface Elevation: 20.7

Perforation Rng Elevations -267.3 - -411.3

Depth: 700

Perforation Range: 288 - 432



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-17R01

Area: PAJARO-SPRINGFIELD

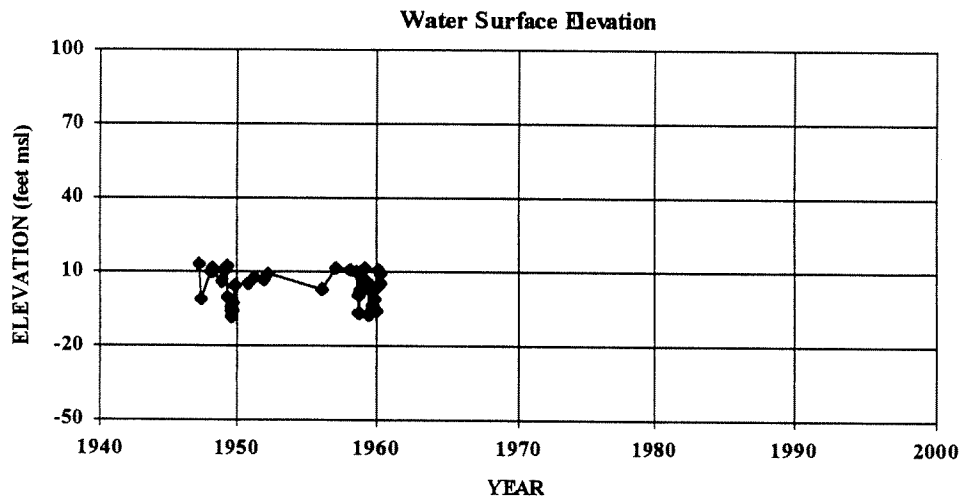
Use: IRRIGATION

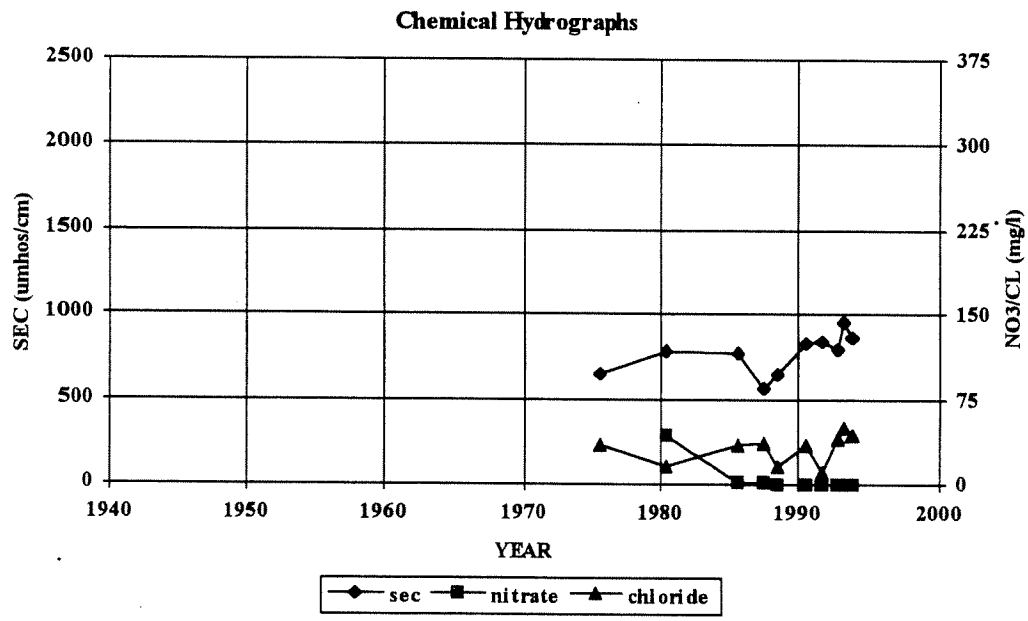
Ground Surface Elevation: 20.2

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-19A02

Area: PAJARO-SPRINGFIELD

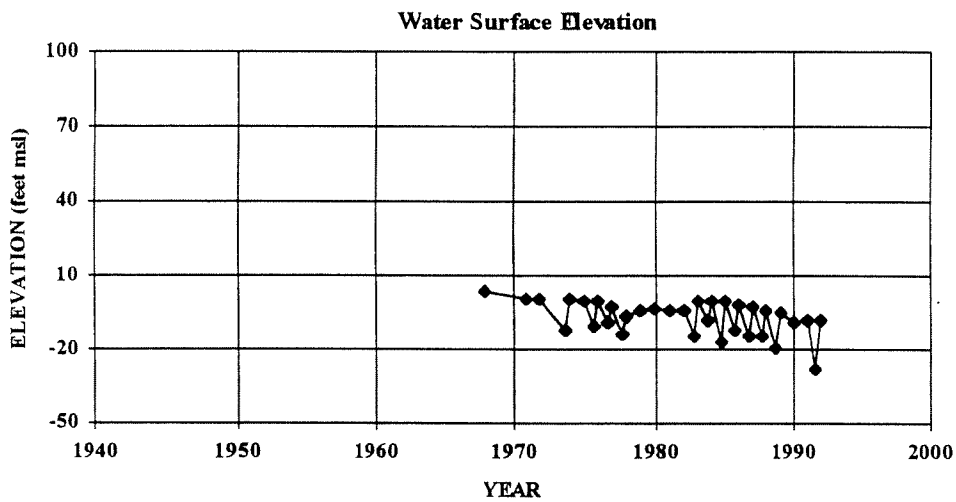
Use: IRRIGATION

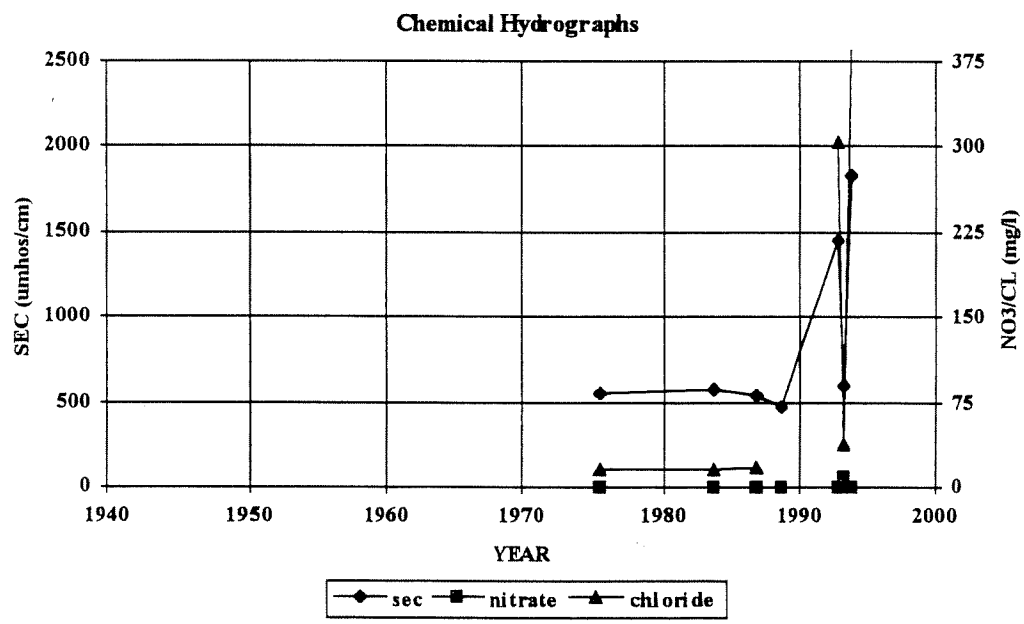
Ground Surface Elevation: 12

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-20K01

Area: PAJARO-SPRINGFIELD

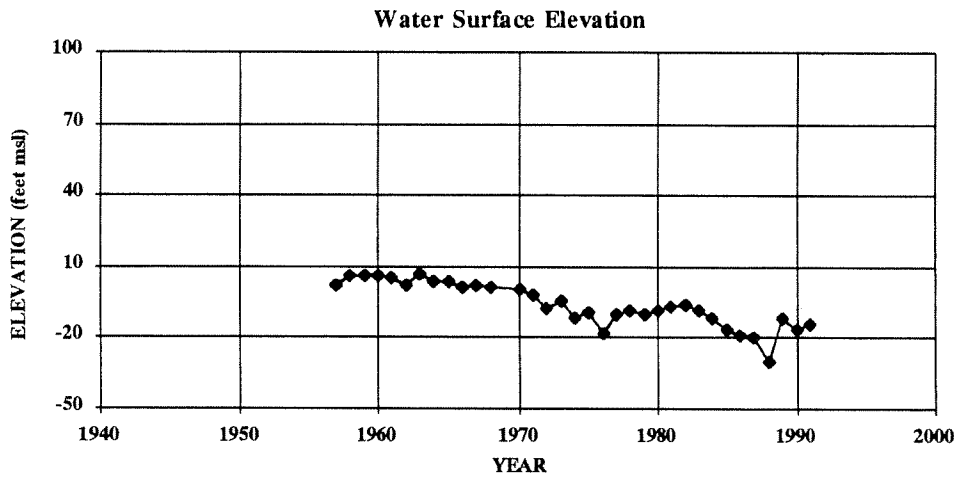
Use: IRRIGATION

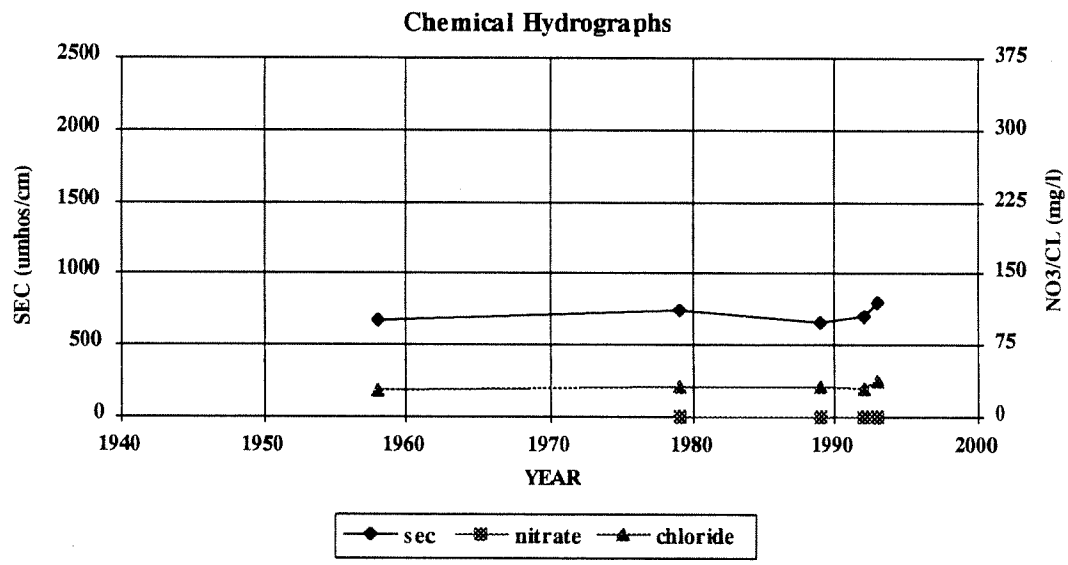
Ground Surface Elevation: 173.5

Perforation Rng Elevations -26.5 - -116.5

Depth: 310

Perforation Range: 200 - 290



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-20K02

Area: PAJARO-SPRINGFIELD

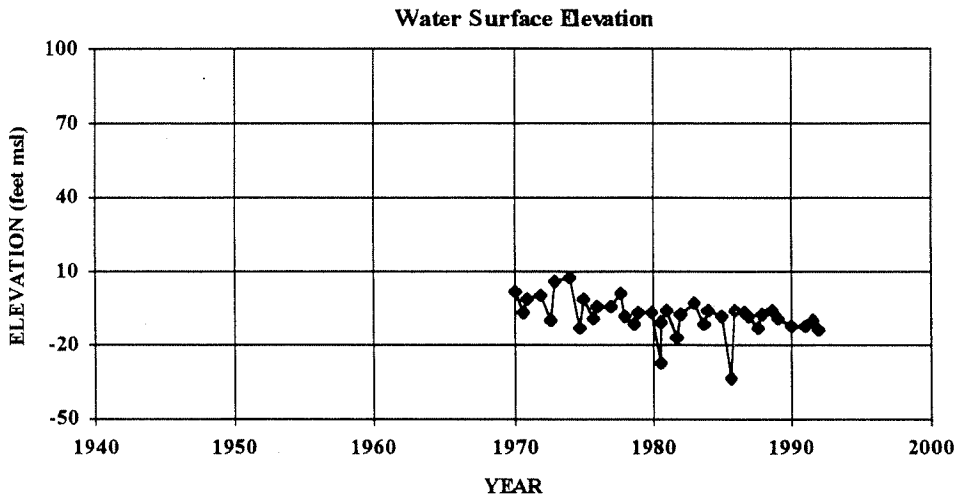
Use: IRRIGATION

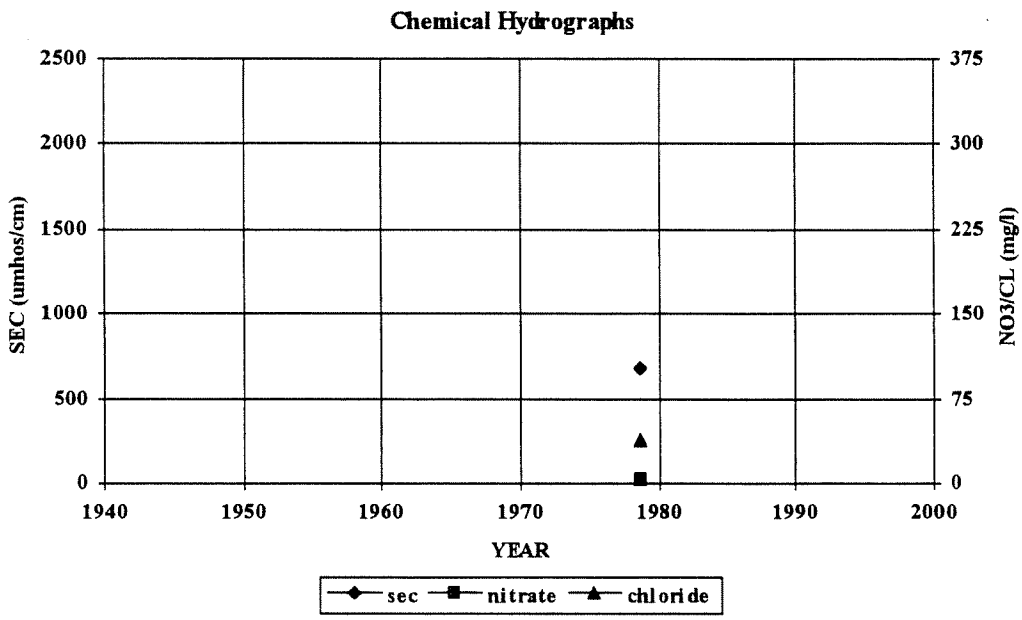
Ground Surface Elevation: 179

Perforation Rng Elevations: -21 - -111

Depth: 310

Perforation Range: 200 - 290



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-29A01

Area: PAJARO-SPRINGFIELD

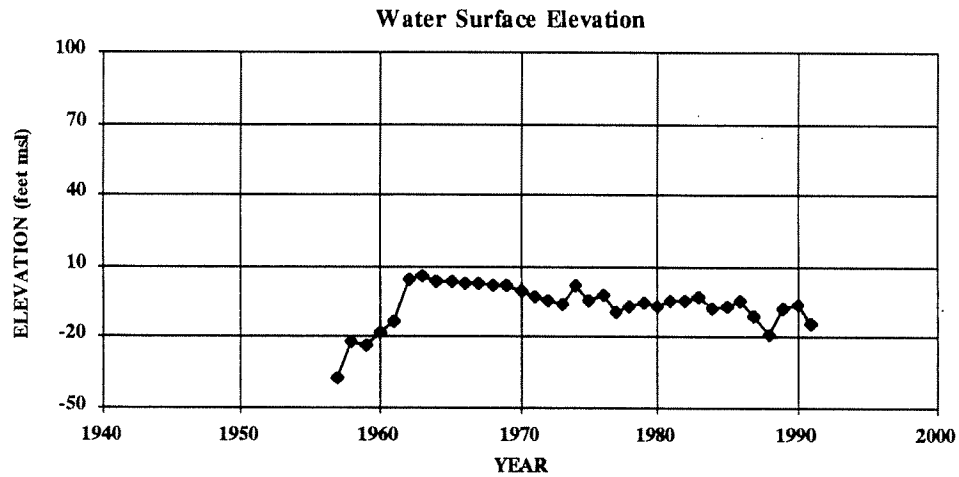
Use: IRRIGATION

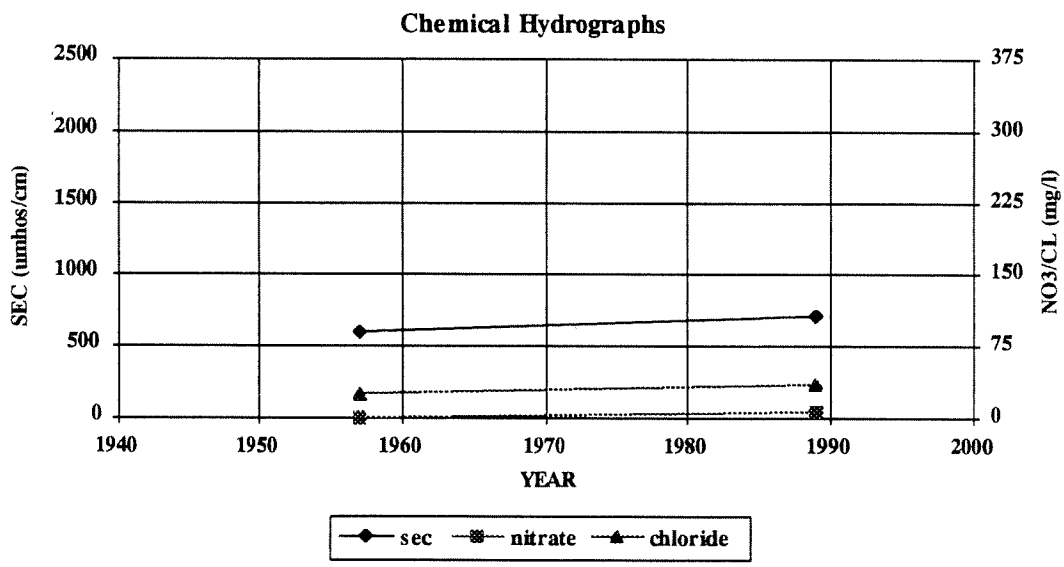
Ground Surface Elevation: 160

Perforation Rng Elevations 2 - -40

Depth: 200

Perforation Range: 158 - 200



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-29L01

Area: PAJARO-SPRINGFIELD

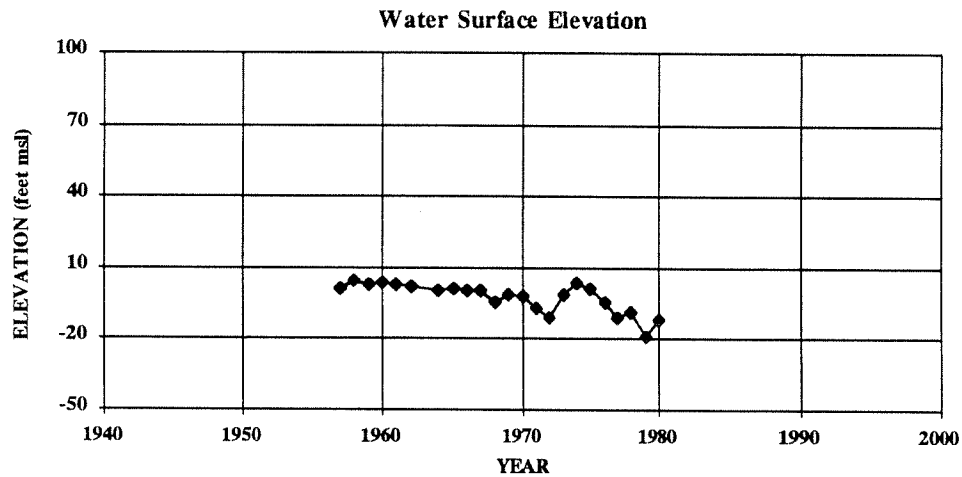
Use: IRRIGATION

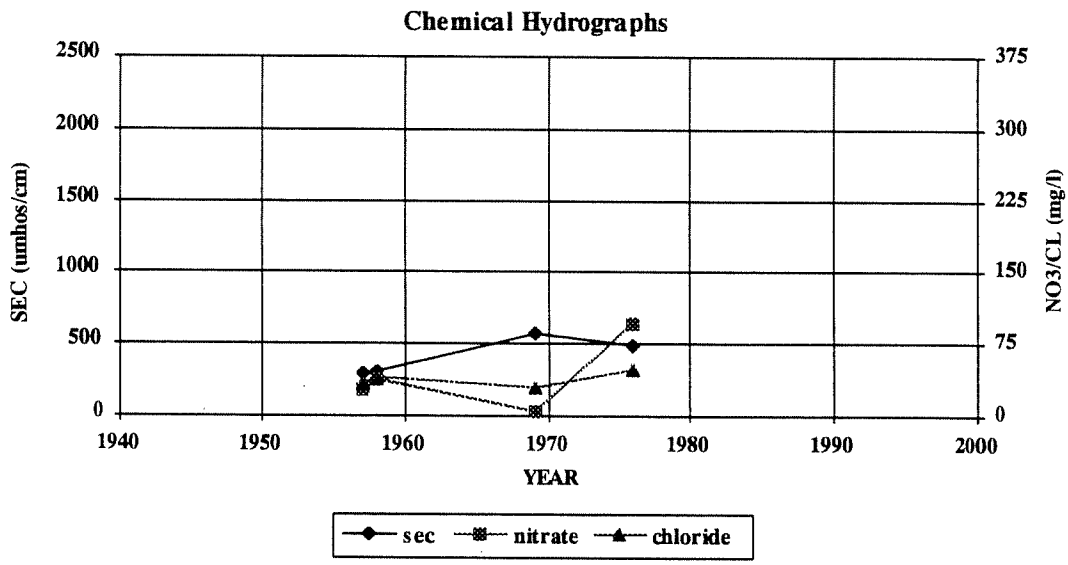
Ground Surface Elevation: 184.1

Perforation Rng Elevations -115.9 - -190.9

Depth: 375

Perforation Range: 300 - 375



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-29N01

Area: PAJARO-SPRINGFIELD

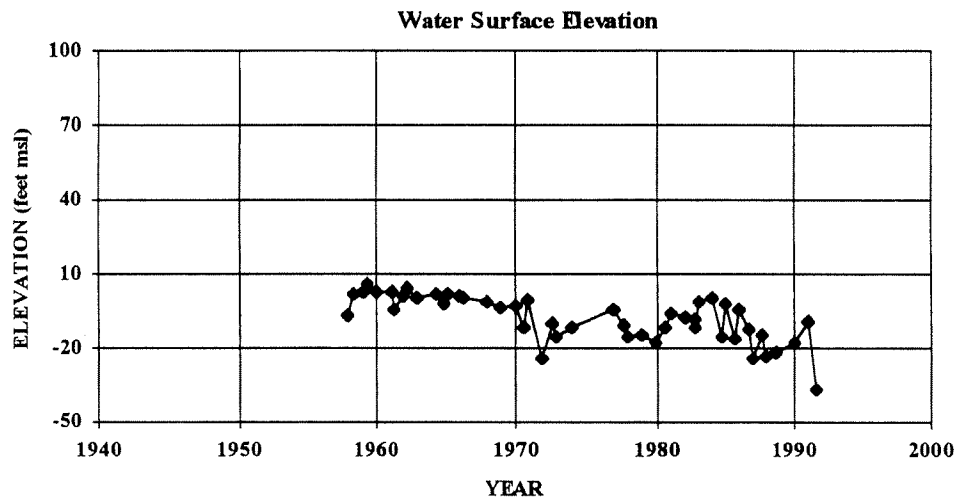
Use: IRRIGATION

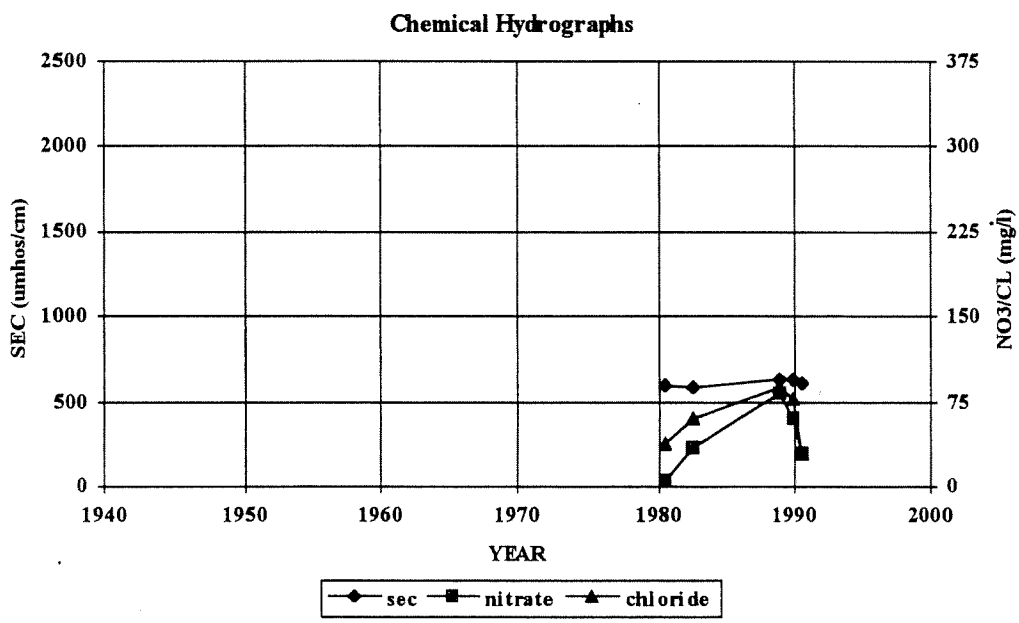
Ground Surface Elevation: 175.5

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-29P01

Area: PAJARO-SPRINGFIELD

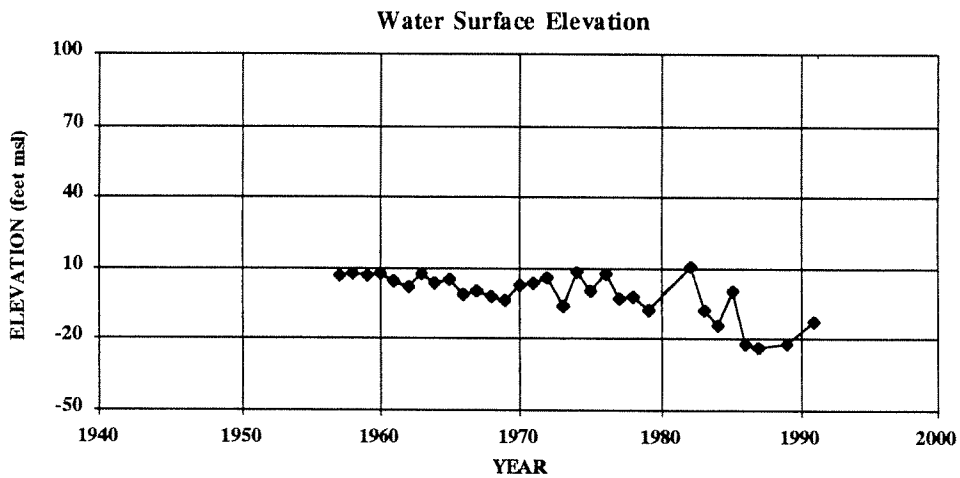
Use: IRRIGATION

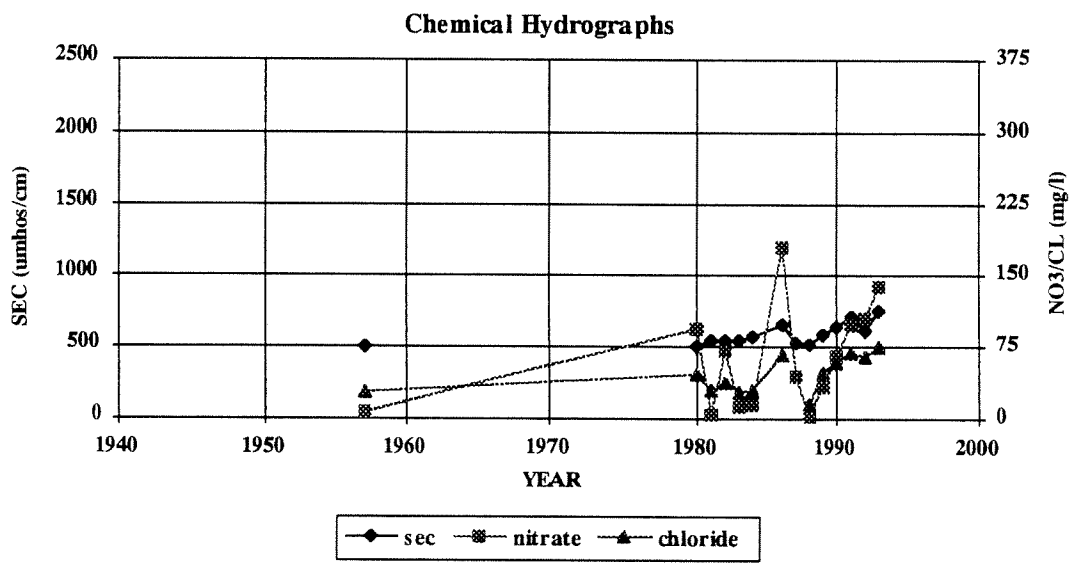
Ground Surface Elevation: 192.3

Perforation Rng Elevations -53.7 - -203.7

Depth: 397

Perforation Range: 246 - 396



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-29R01

Area: PAJARO-SPRINGFIELD

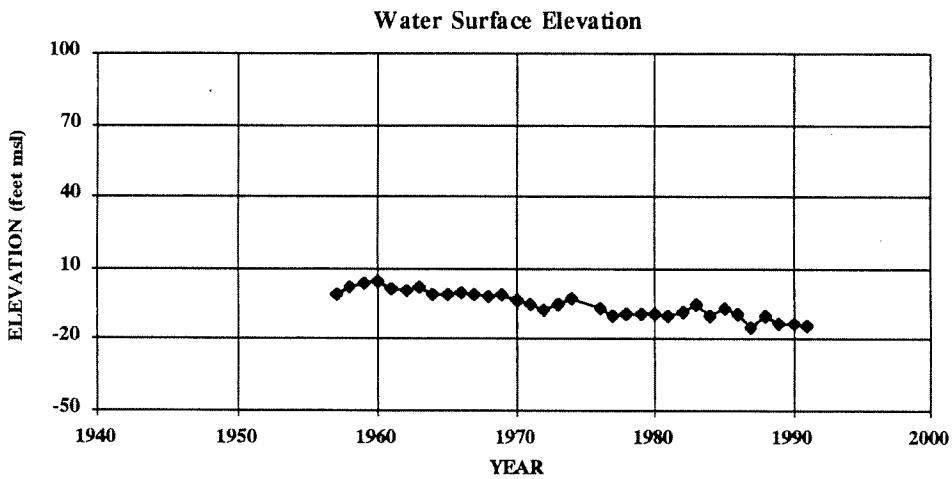
Use: IRRIGATION

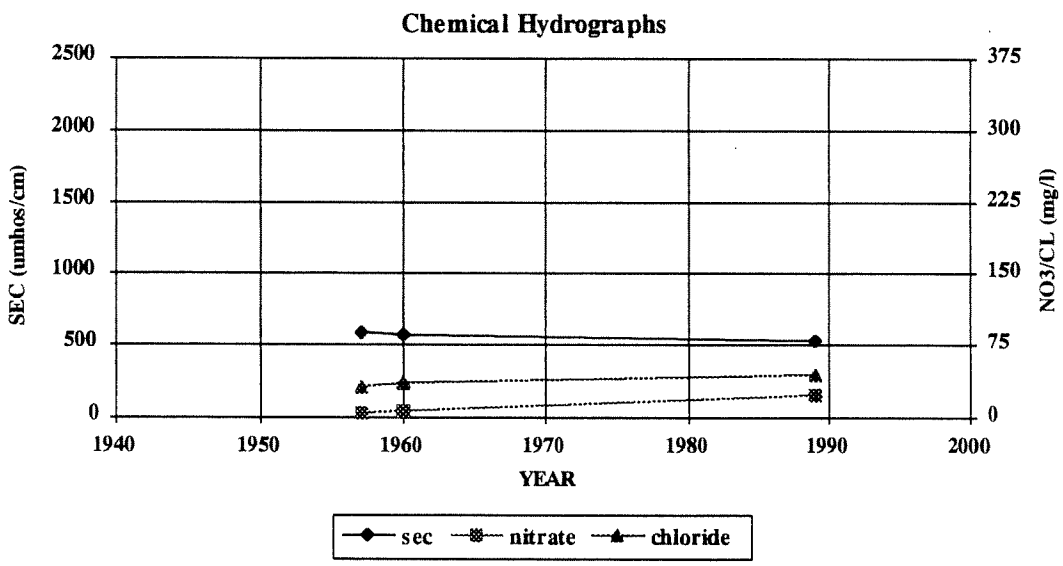
Ground Surface Elevation: 69.3

Perforation Rng Elevations -100.7 - -180.7

Depth: 250

Perforation Range: 170 - 250



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-30E01

Area: PAJARO-SPRINGFIELD

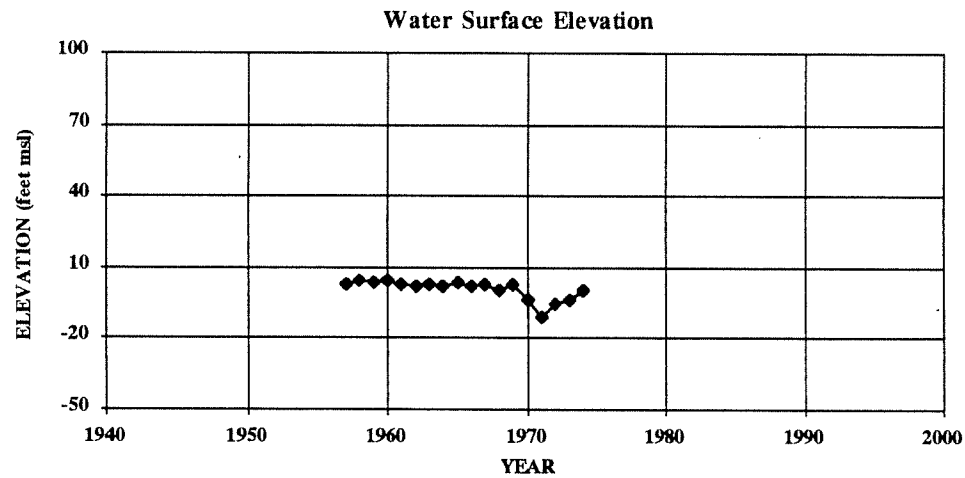
Use: IRRIGATION

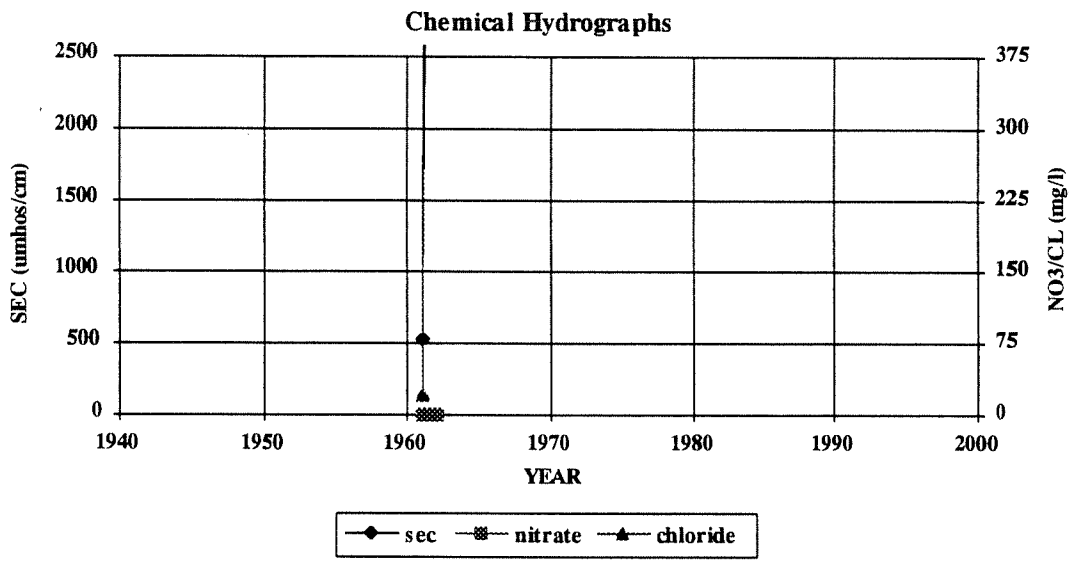
Ground Surface Elevation: 84.3

Perforation Rng Elevations -215.7 - -275.7

Depth: 360

Perforation Range: 300 - 360



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-30M02

Area: PAJARO-SPRINGFIELD

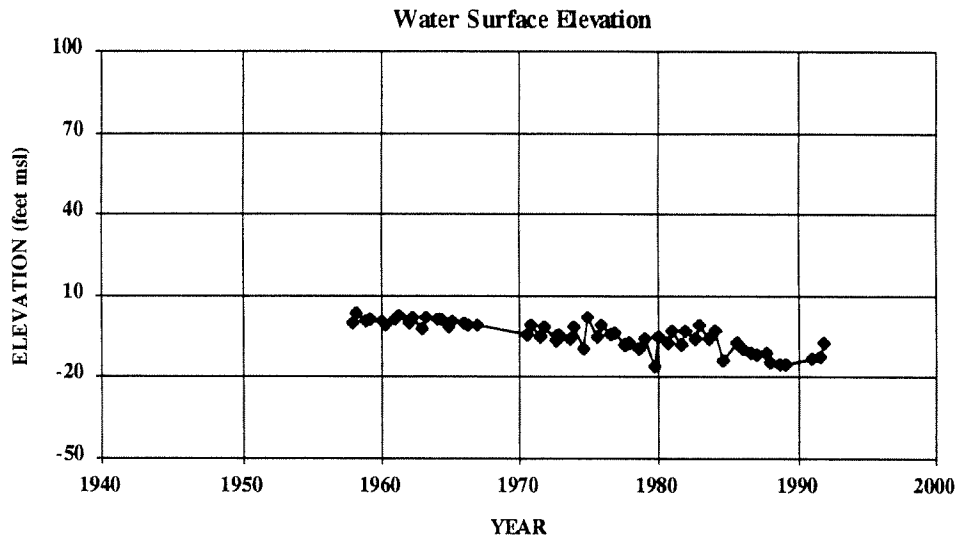
Use: IRRIGATION

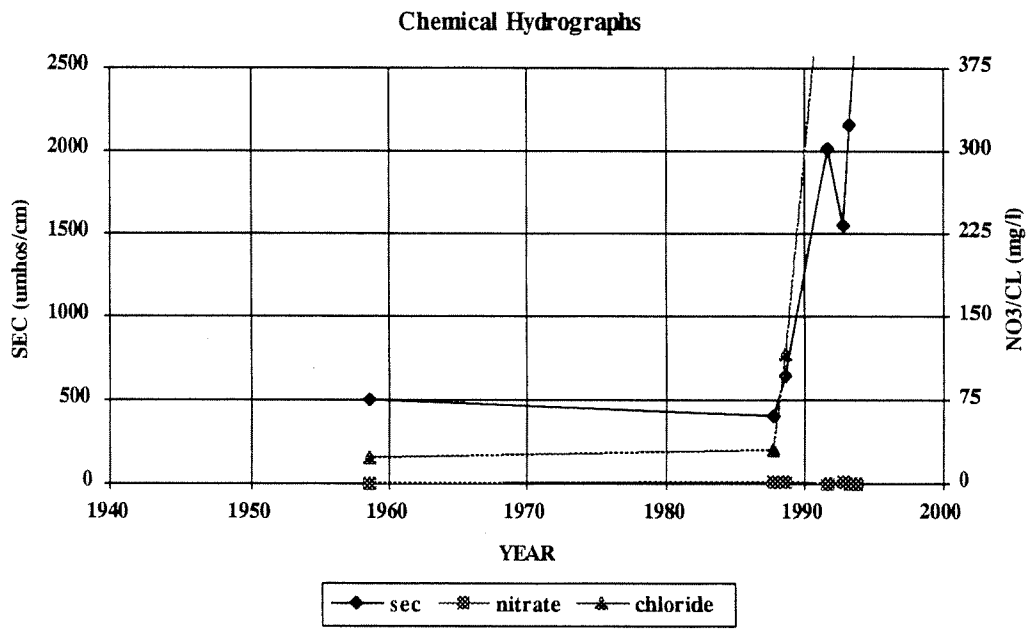
Ground Surface Elevation: 106.7

Perforation Rng Elevations -148.3 - -168.3

Depth: 400

Perforation Range: 255 - 275



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-30N01

Area: PAJARO-SPRINGFIELD

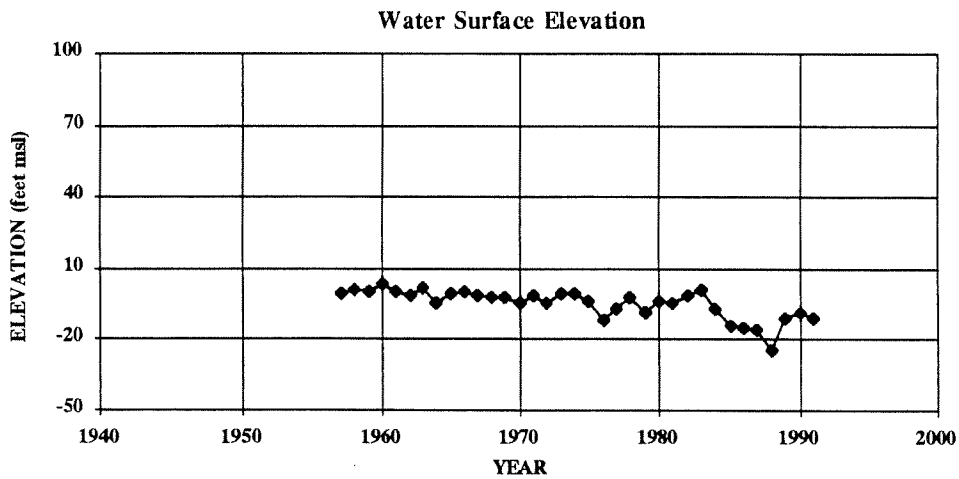
Use: IRRIGATION

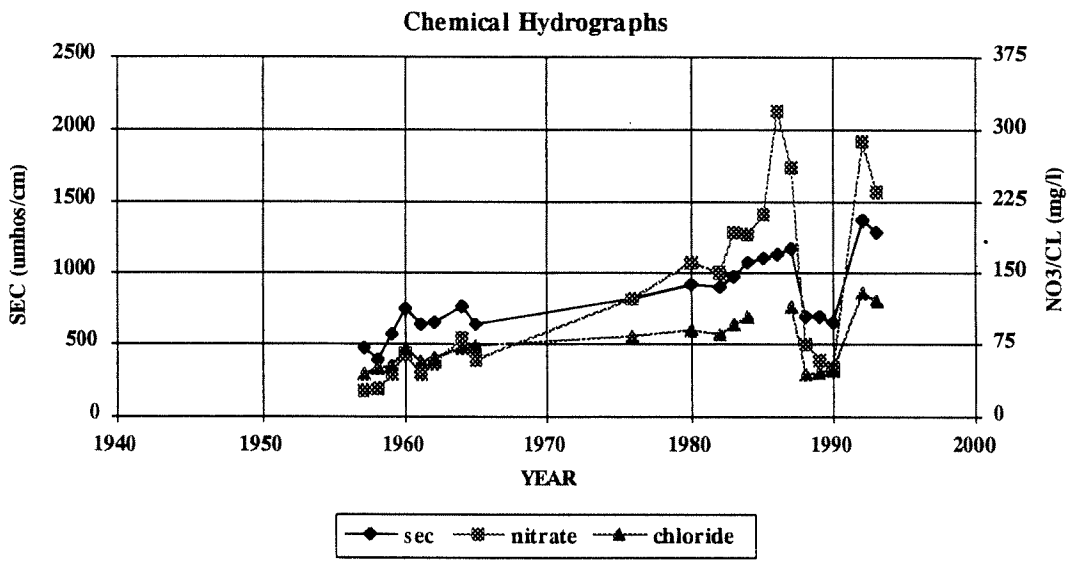
Ground Surface Elevation: 71

Perforation Rng Elevations -69 - -109

Depth: 180

Perforation Range: 140 - 180



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-31A01

Area: PAJARO-SPRINGFIELD

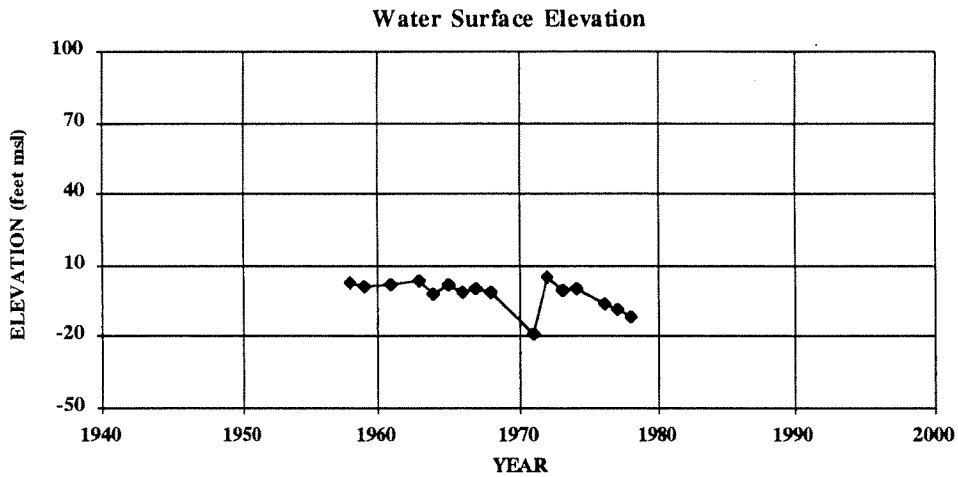
Use: IRRIGATION

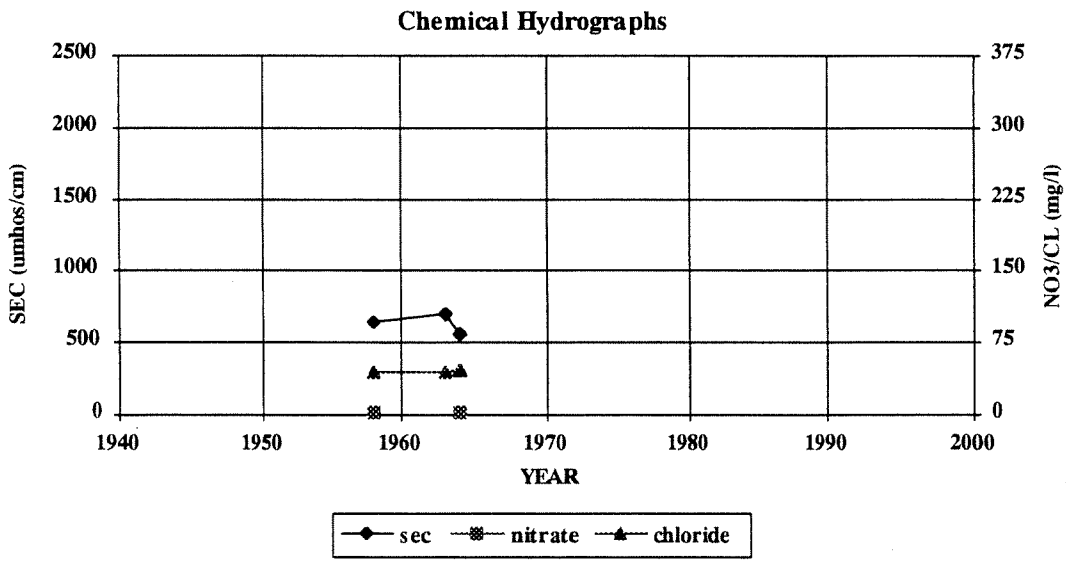
Ground Surface Elevation: 148.7

Perforation Rng Elevations -51.3 - -101.3

Depth: 250

Perforation Range: 200 - 250



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-31C02

Area: PAJARO-SPRINGFIELD

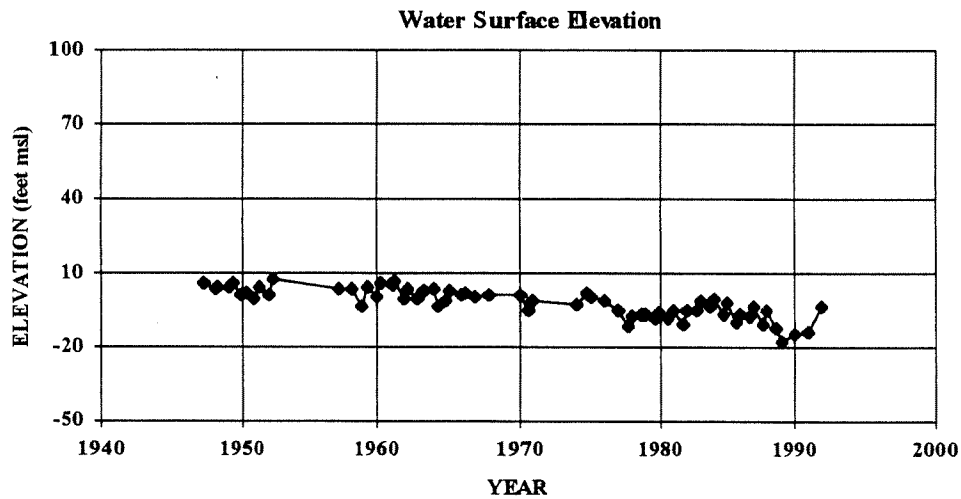
Use: IRRIGATION

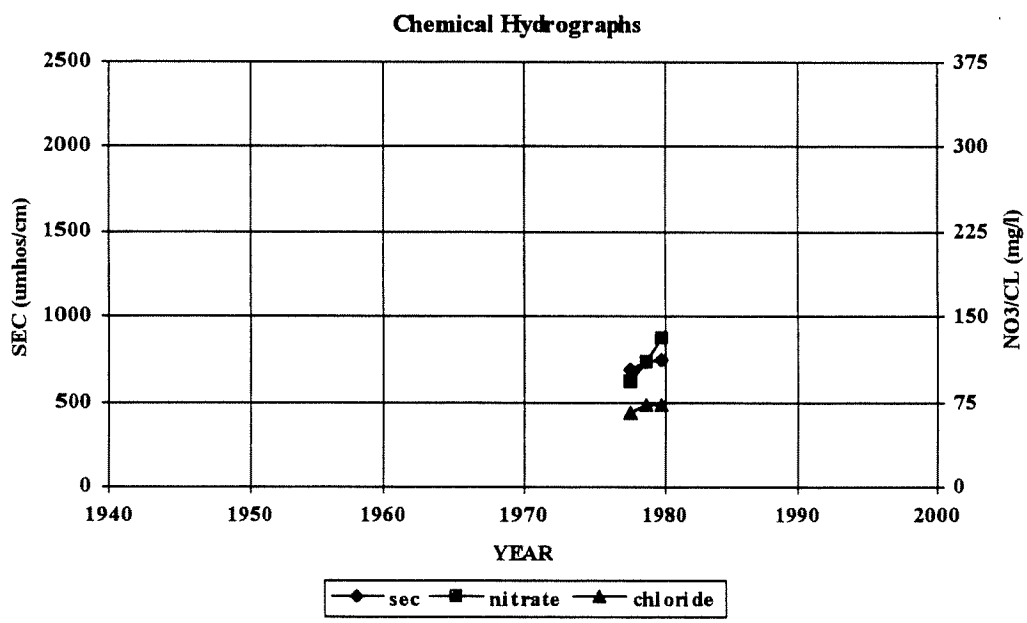
Ground Surface Elevation: 60

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-31K01

Area: PAJARO-SPRINGFIELD

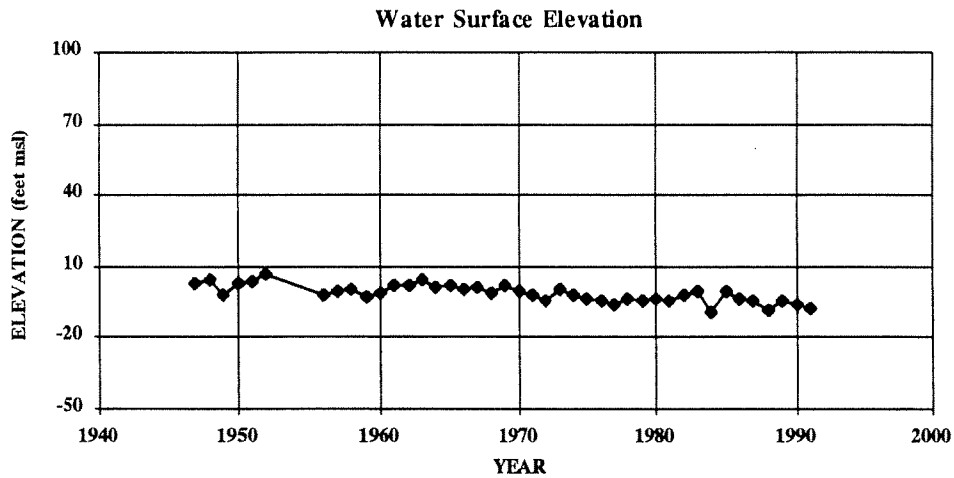
Use: IRRIGATION

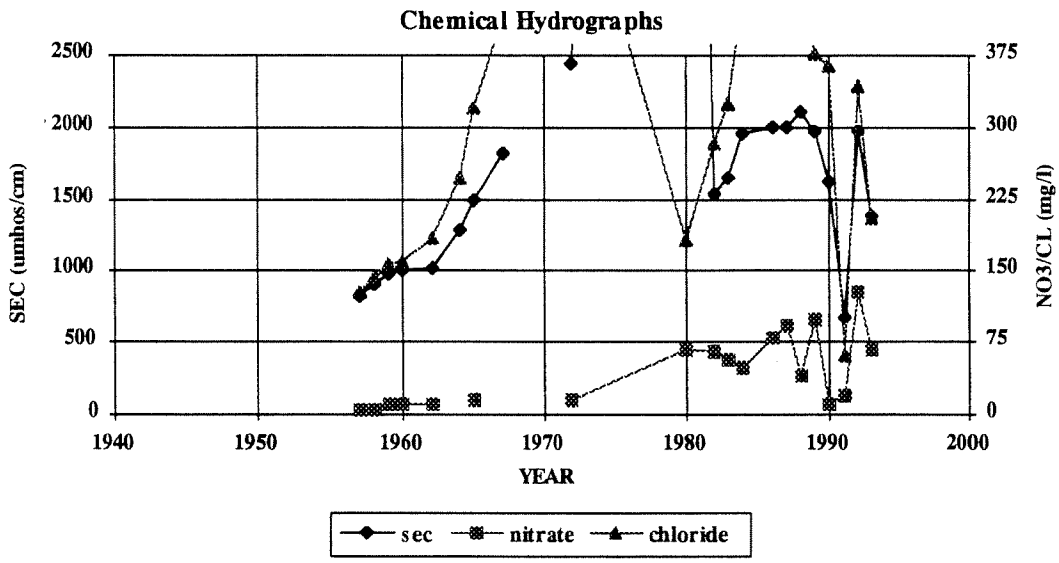
Ground Surface Elevation: 30

Perforation Rng Elevations -134 - -189

Depth: 219

Perforation Range: 164 - 219



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-32C01

Area: PAJARO-SPRINGFIELD

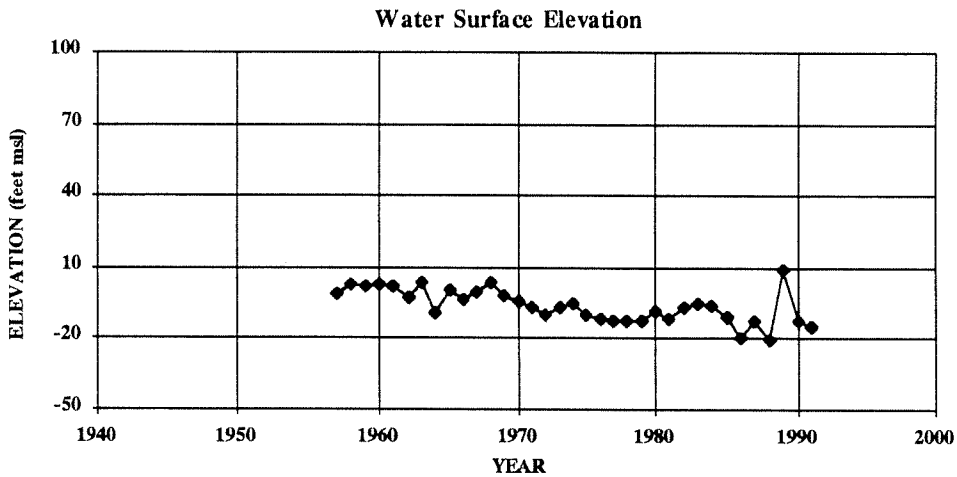
Use: IRRIGATION

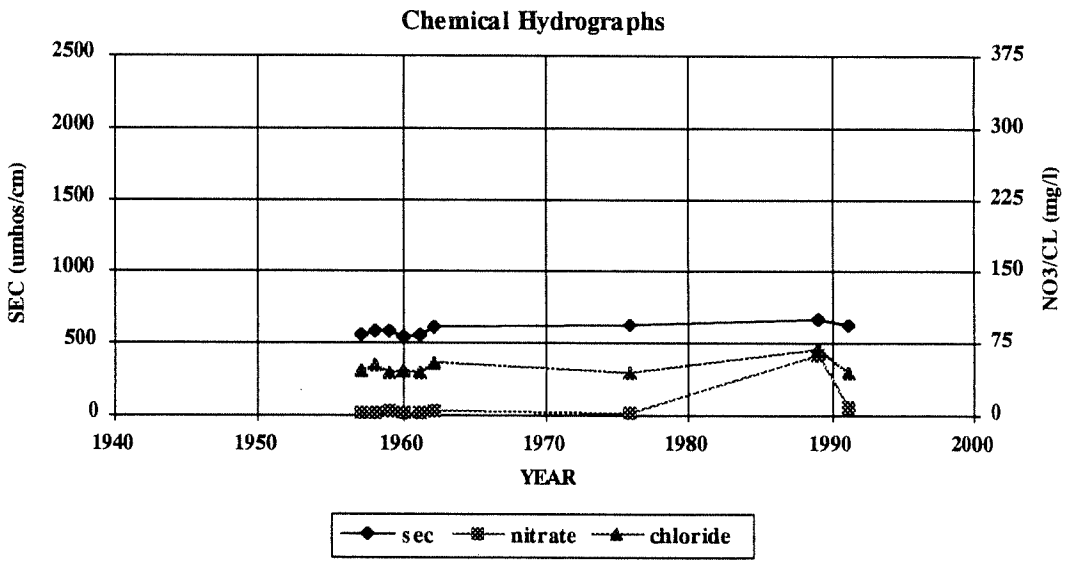
Ground Surface Elevation: 175.7

Perforation Rng Elevations 75.7 - -166.3

Depth: 342

Perforation Range: 100 - 342



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/02E-32N01

Area: PAJARO-SPRINGFIELD

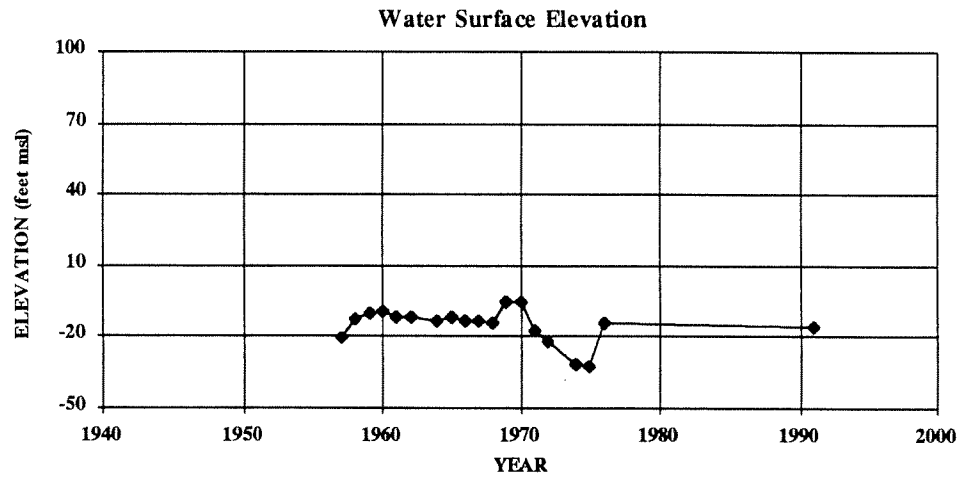
Use: IRRIGATION

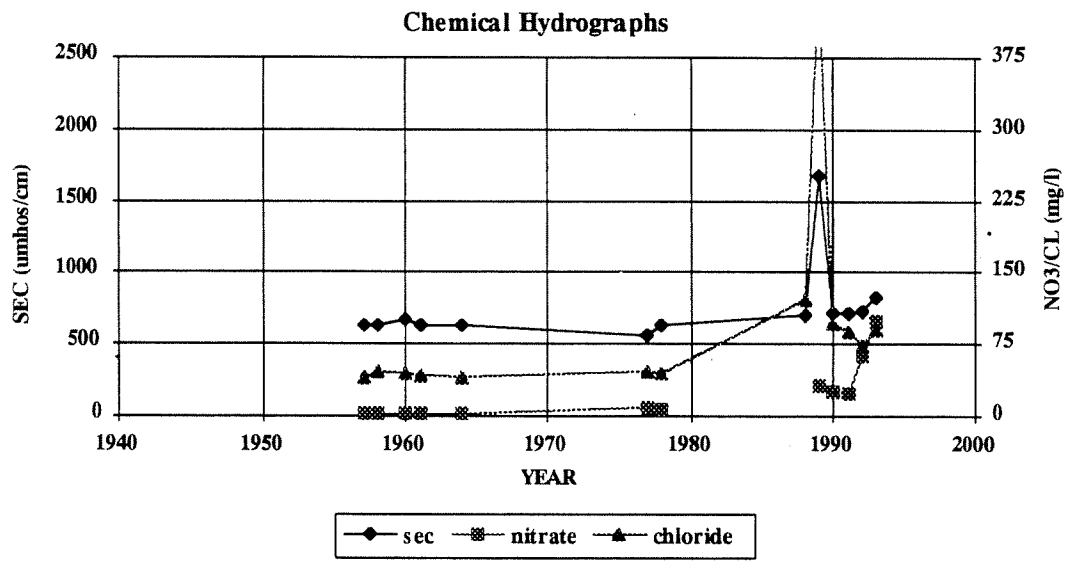
Ground Surface Elevation: 133

Perforation Rng Elevations -89 - -239

Depth: 372

Perforation Range: 222 - 372



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-07J02

Area: PAJARO-SPRINGFIELD

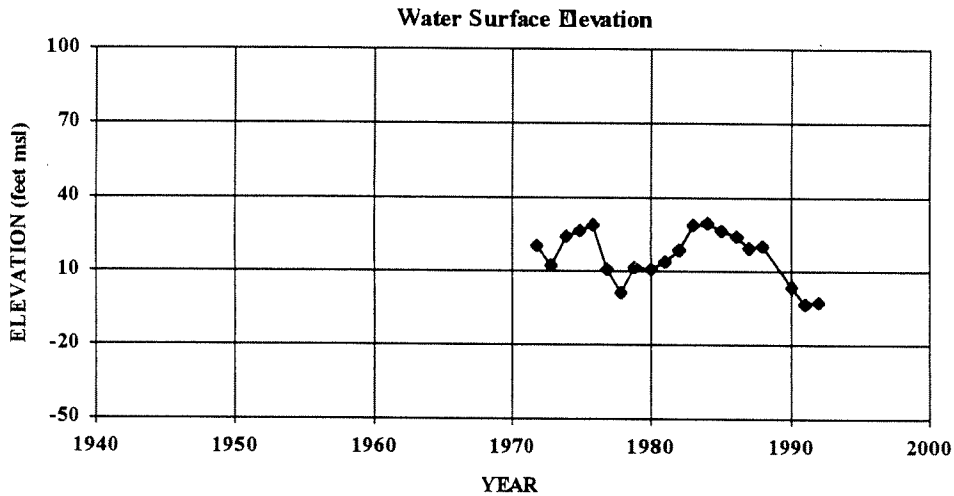
Use: IRRIGATION

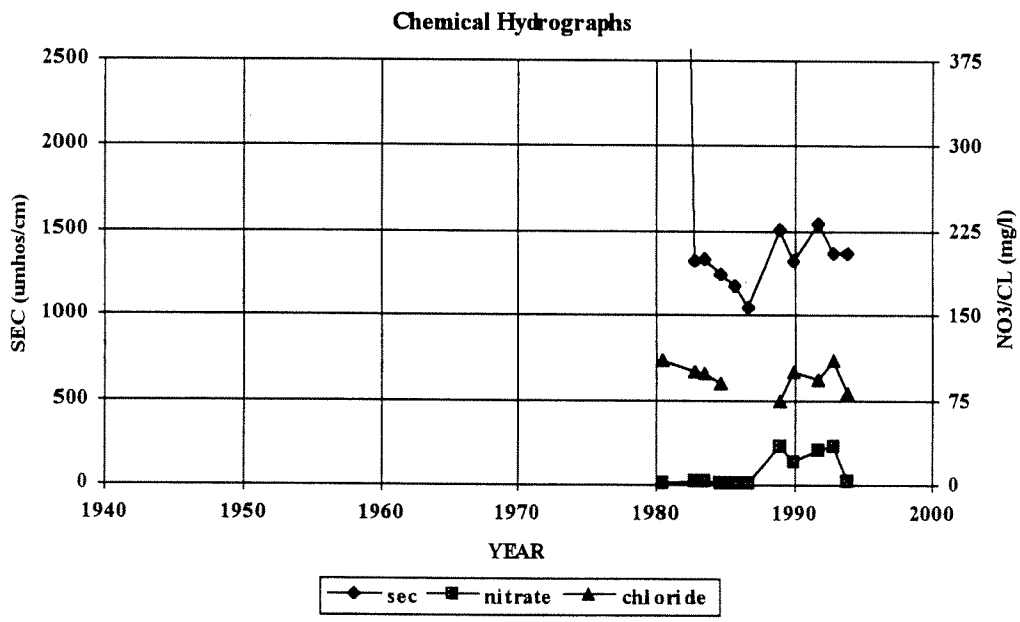
Ground Surface Elevation: 70

Perforation Rng Elevations: -35 - -127

Depth: 200

Perforation Range: 105 - 197



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-08C01

Area: PAJARO-SPRINGFIELD

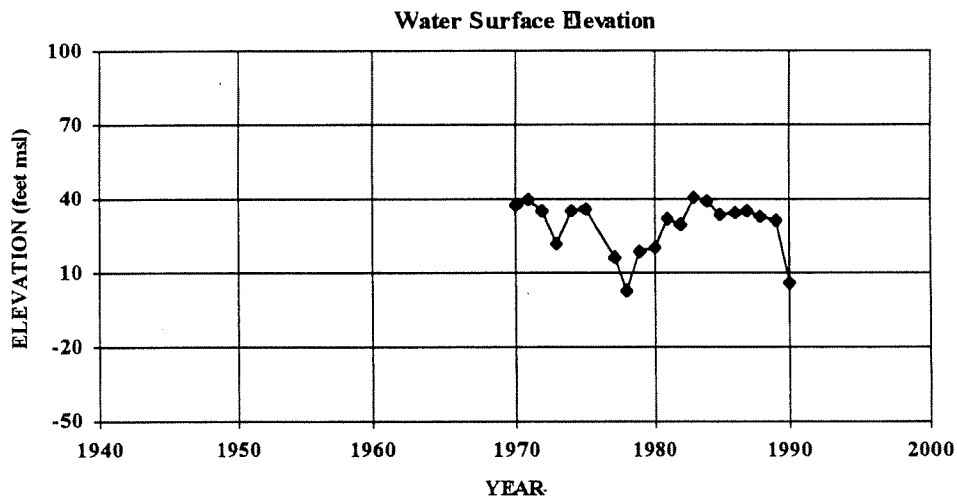
Use: IRRIGATION

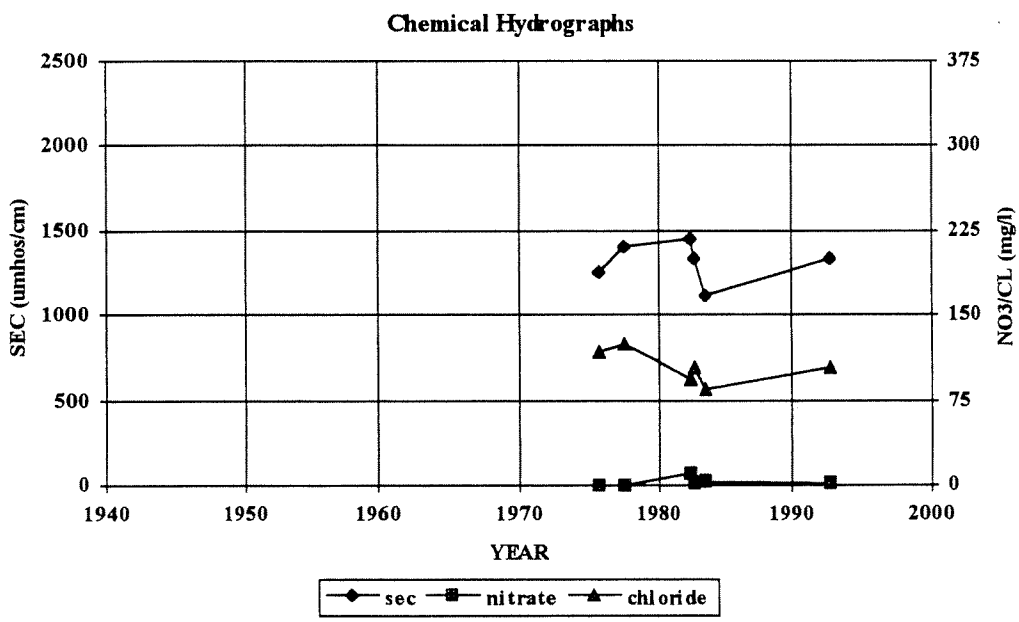
Ground Surface Elevation: 60

Perforation Rng Elevations: - No Data

Depth: 230

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-08M01

Area: PAJARO-SPRINGFIELD

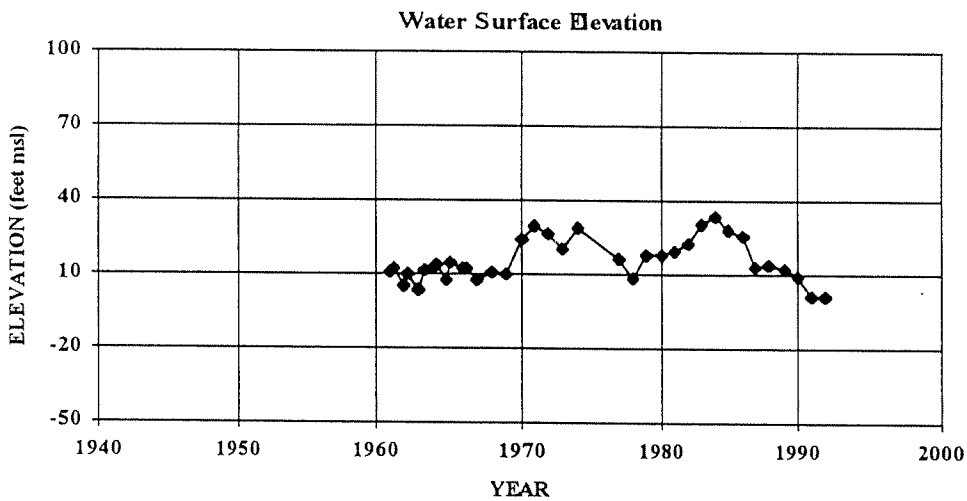
Use: IRRIGATION

Ground Surface Elevation: 76.5

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-16C02

Area: PAJARO-SPRINGFIELD

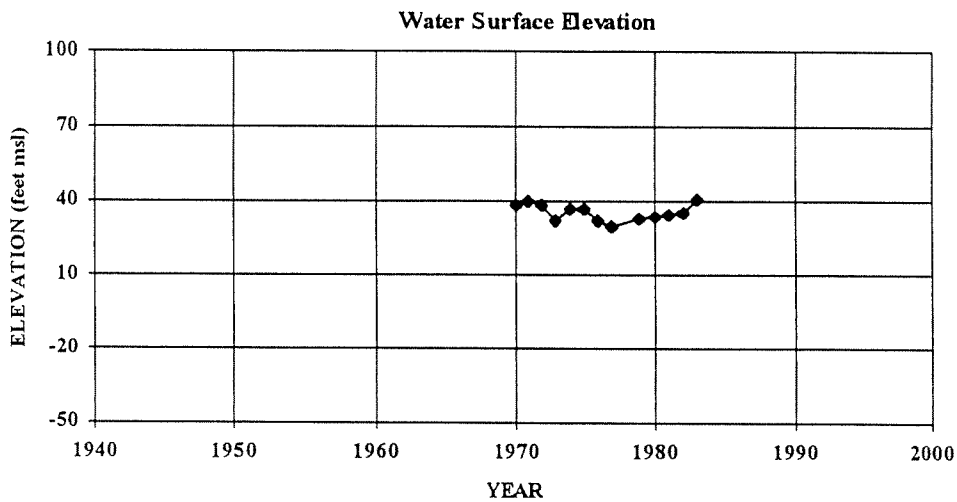
Use: IRRIGATION

Ground Surface Elevation: 90

Perforation Rng Elevations: -210 - -282

Depth: 385

Perforation Range: 300 - 372



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-18D01

Area: PAJARO-SPRINGFIELD

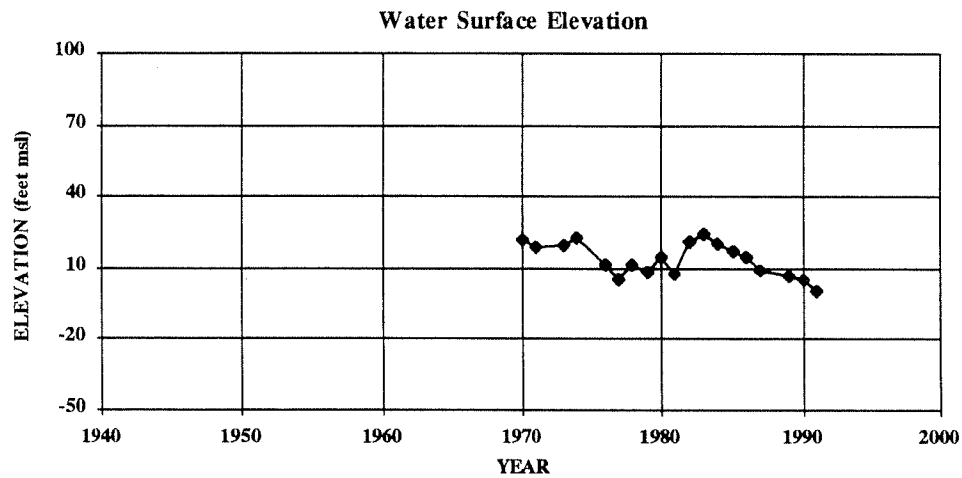
Use: DOMESTIC

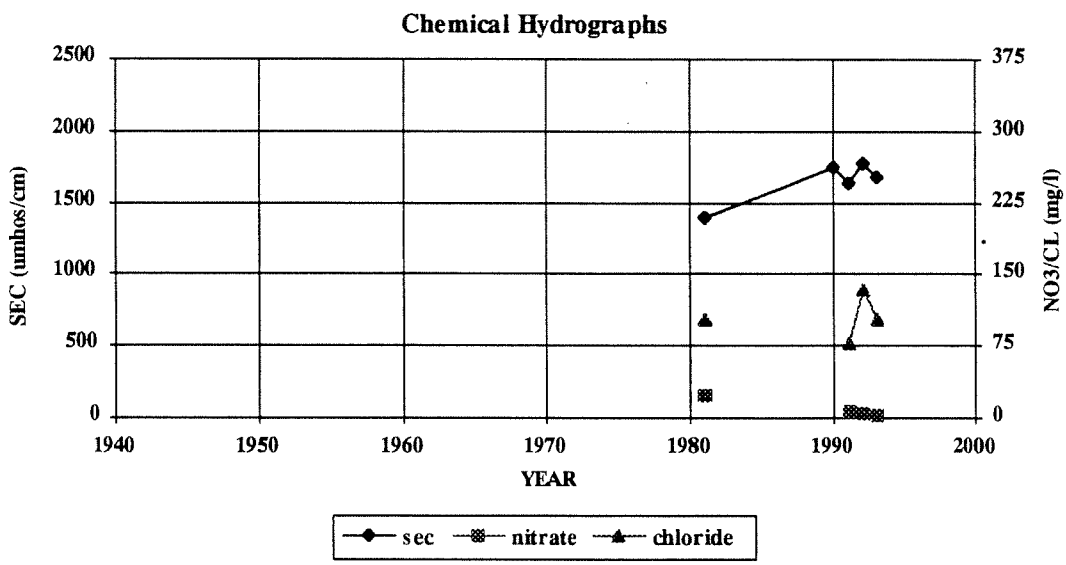
Ground Surface Elevation: 60.5

Perforation Rng Elevations -64.5 - -99.5

Depth: 172

Perforation Range: 125 - 160



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-18E04

Area: PAJARO-SPRINGFIELD

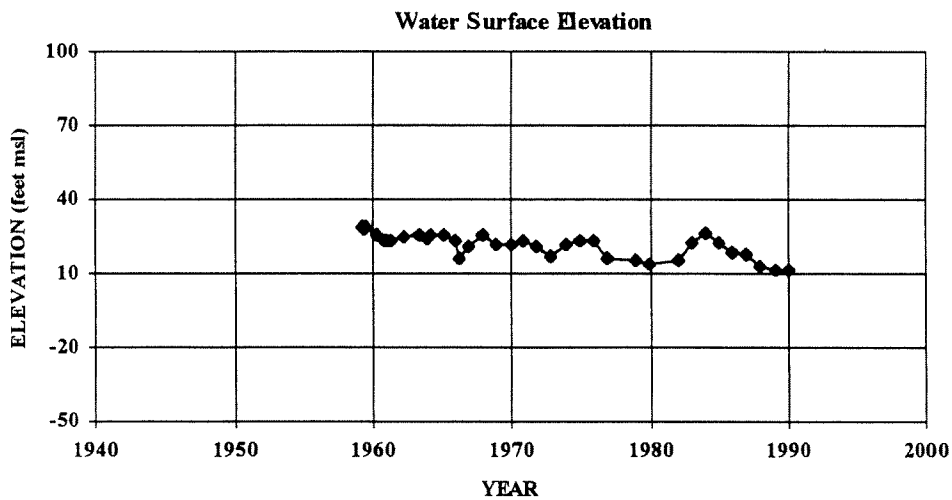
Use: DOMESTIC

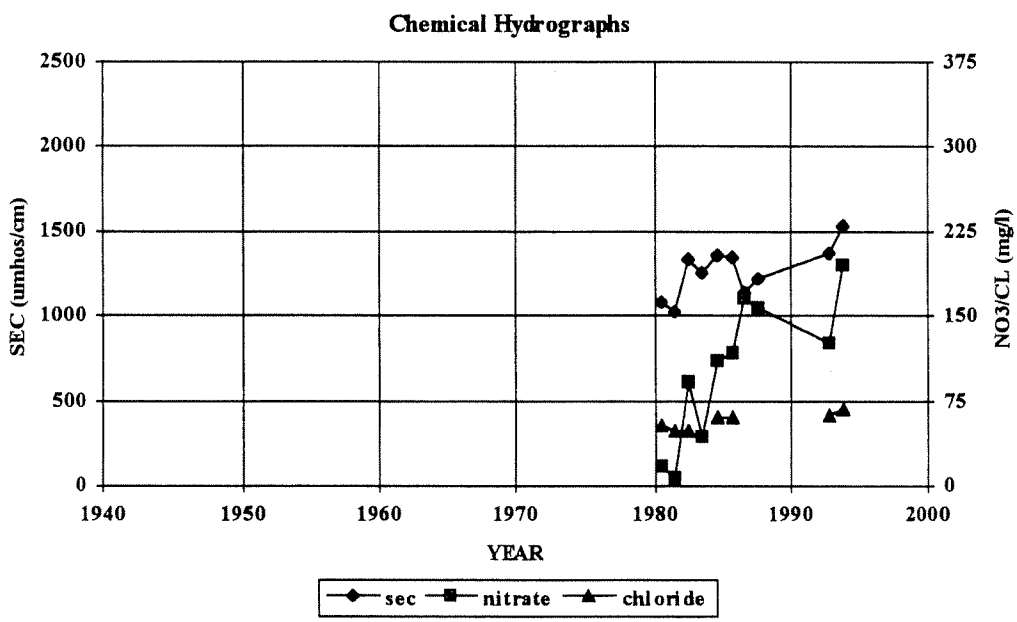
Ground Surface Elevation: 60.5

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 12S/03E-21B01

Area: PAJARO-SPRINGFIELD

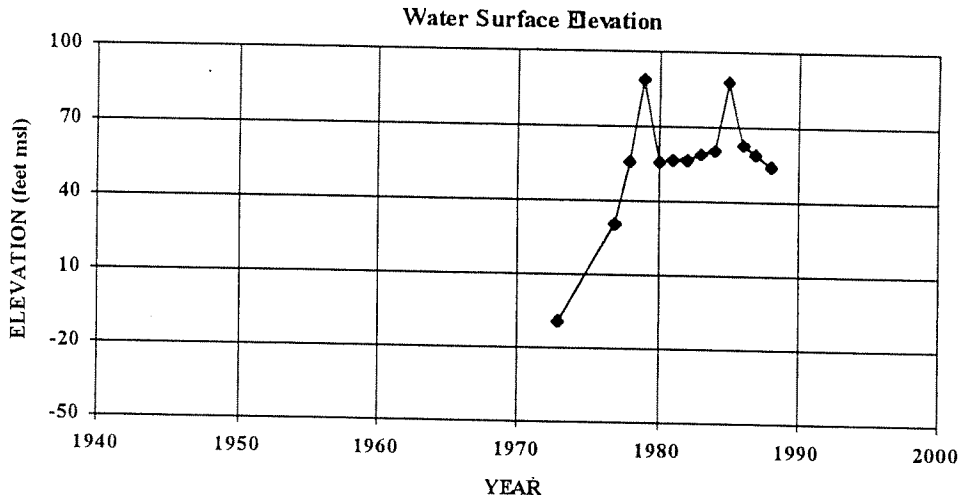
Use: INDUSTRIAL

Ground Surface Elevation: 390.5

Perforation Rng Elevations: 68.5 - -51.5

Depth: 450

Perforation Range: 322 - 442



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-04F01

Area: PAJARO-SPRINGFIELD

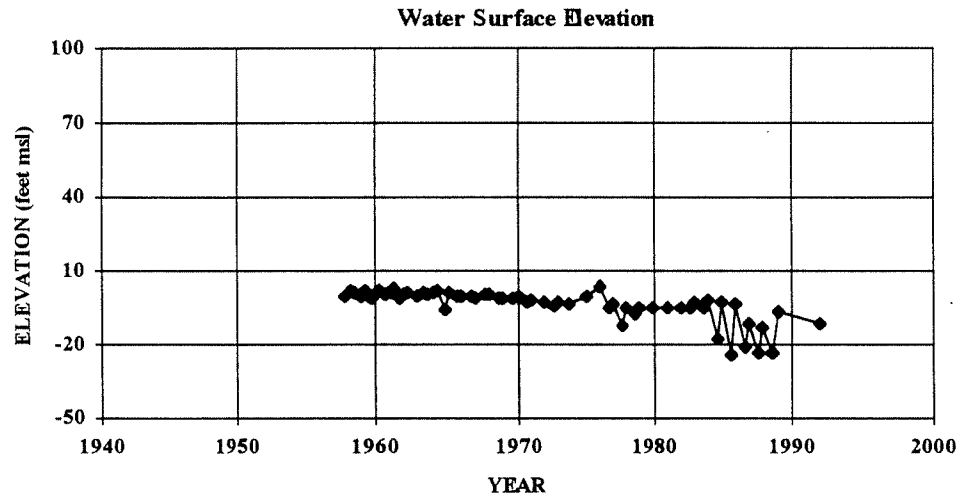
Use: IRRIGATION

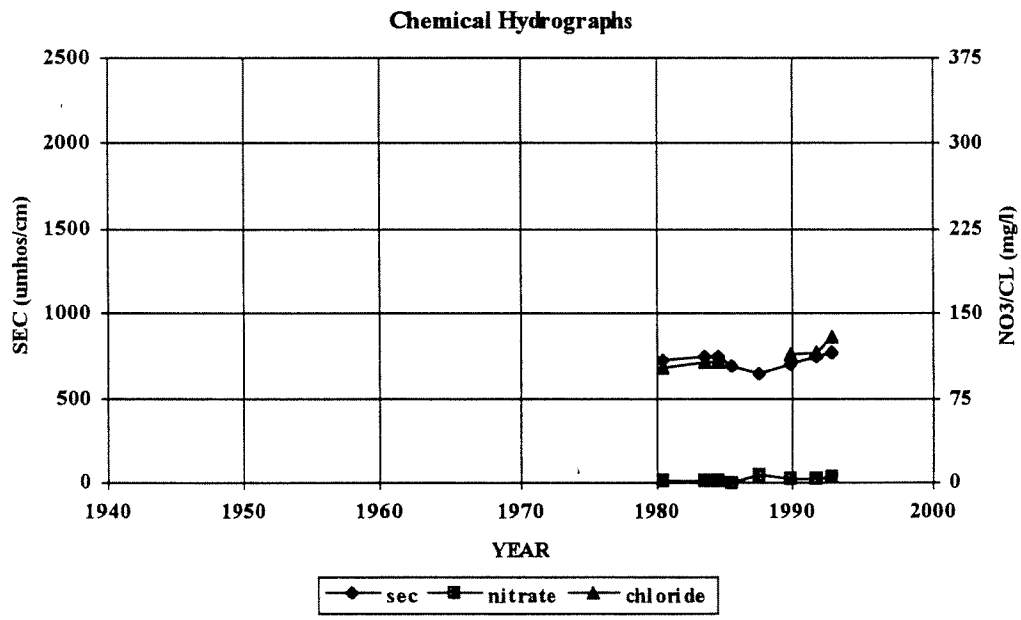
Ground Surface Elevation: 115.3

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-04K01

Area: PAJARO-SPRINGFIELD

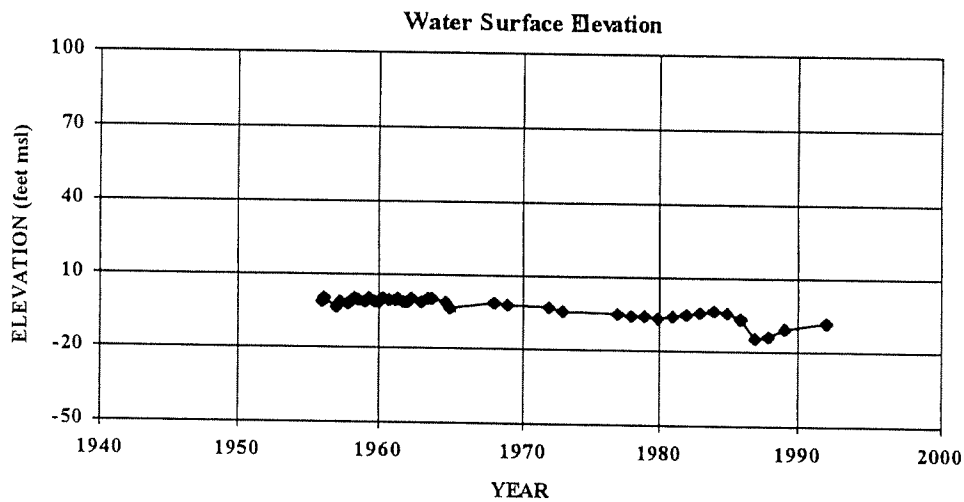
Use: IRRIGATION

Ground Surface Elevation: 103.8

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-05C02

Area: PAJARO-SPRINGFIELD

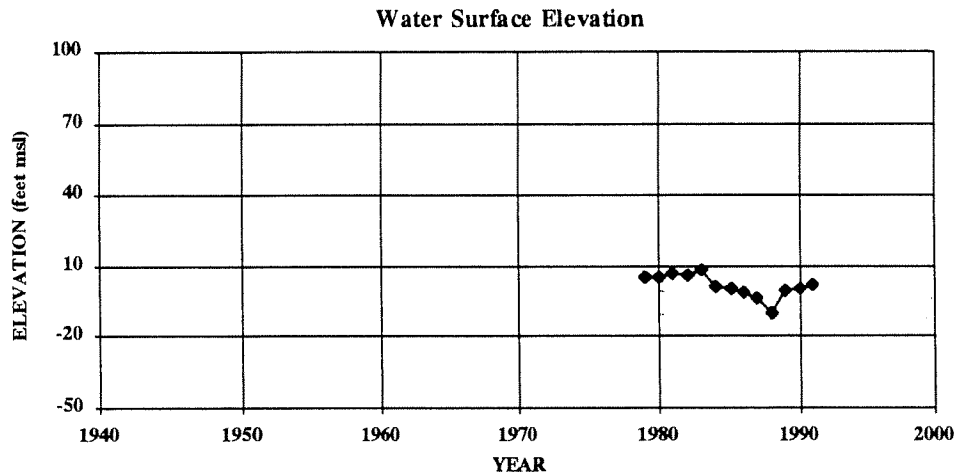
Use: IRRIGATION

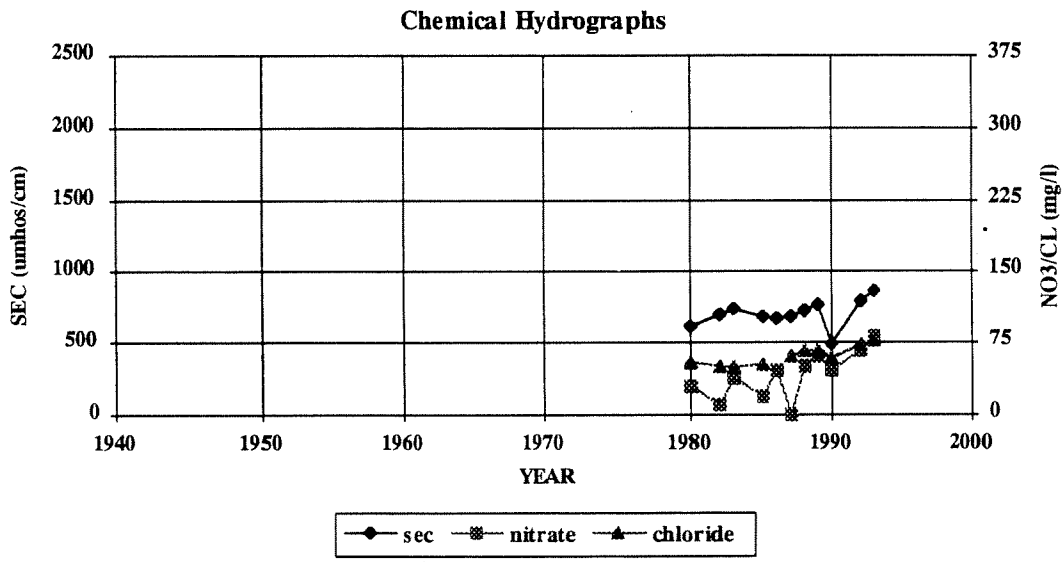
Ground Surface Elevation: 76.3

Perforation Rng Elevations -91.7 - -307.7

Depth: 408

Perforation Range: 168 - 384



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-05M01

Area: PAJARO-SPRINGFIELD

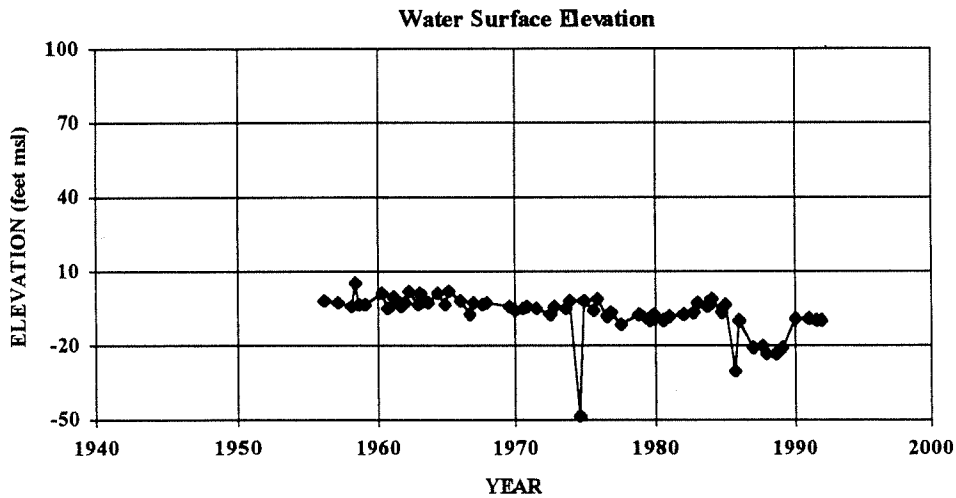
Use: IRRIGATION

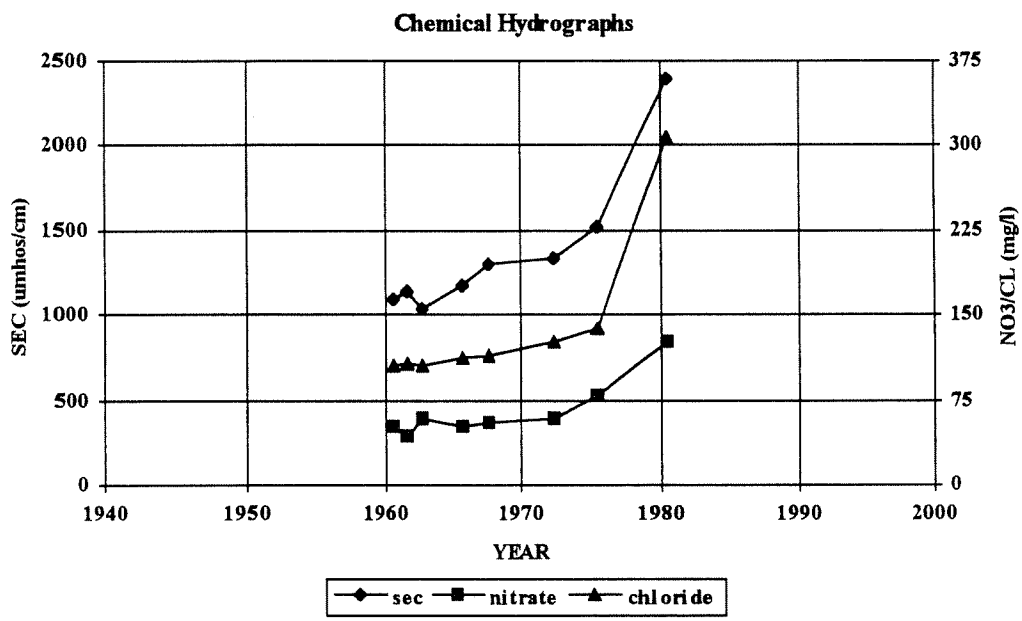
Ground Surface Elevation: 20.4

Perforation Rng Elevations: - No Data

Depth: 122

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-06C01

Area: PAJARO-SPRINGFIELD

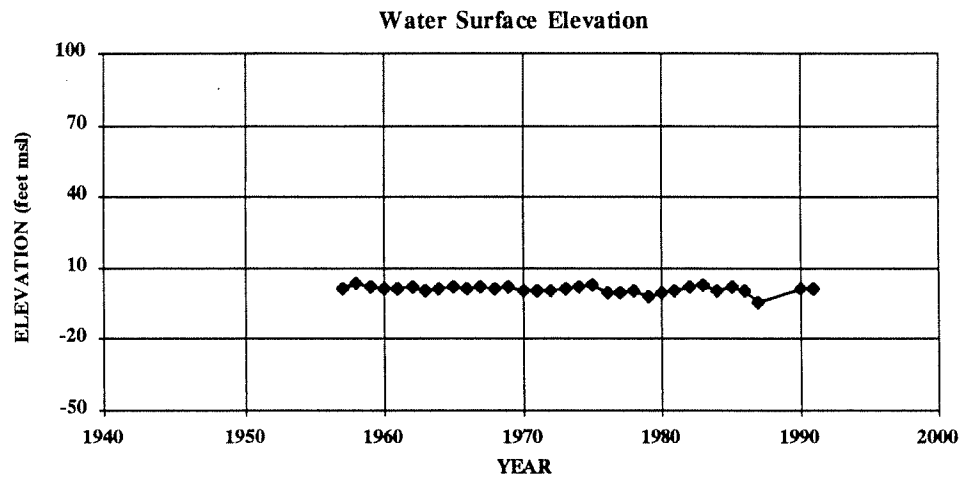
Use: Unclassified

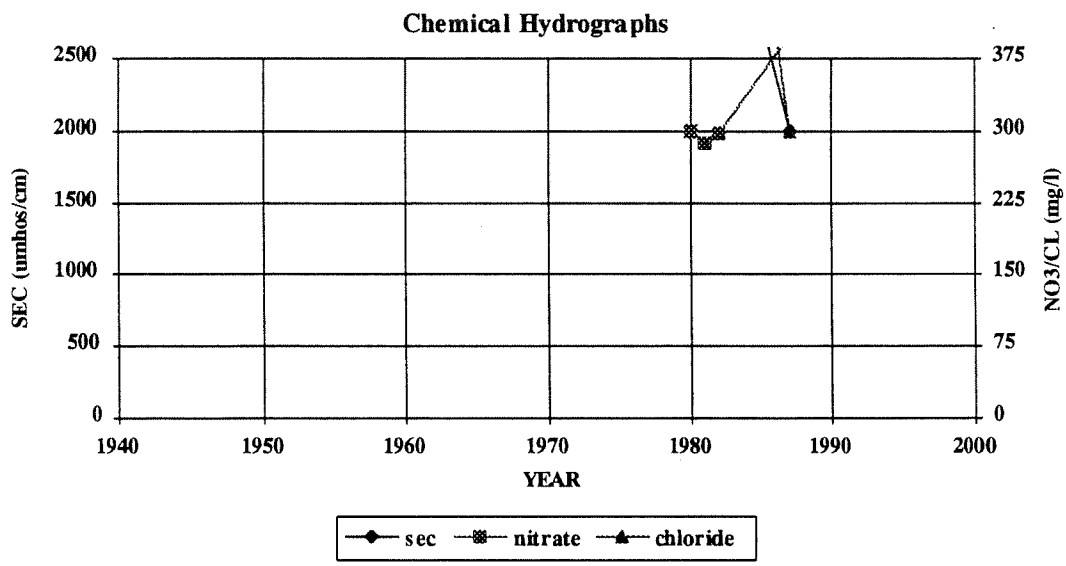
Ground Surface Elevation: 26

Perforation Rng Elevations -53 - -169

Depth: 198

Perforation Range: 79 - 195



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-06E02

Area: PAJARO-SPRINGFIELD

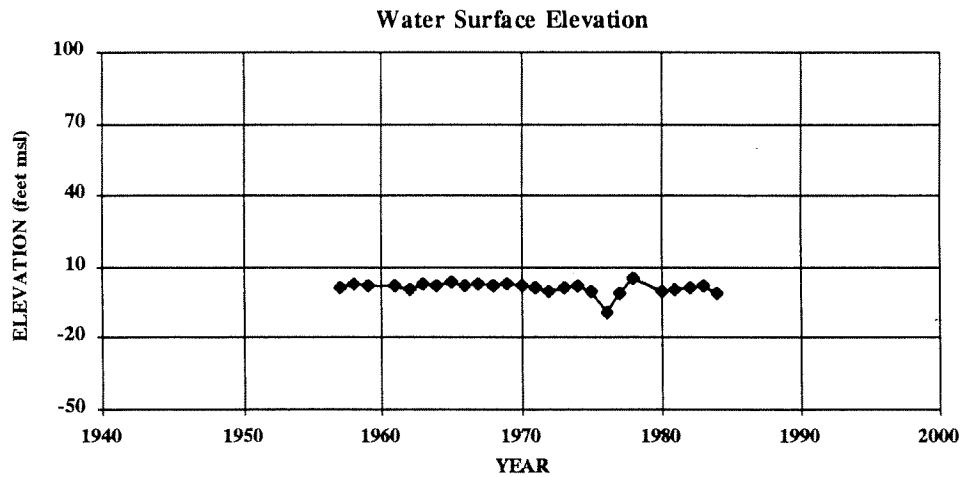
Use: Unclassified

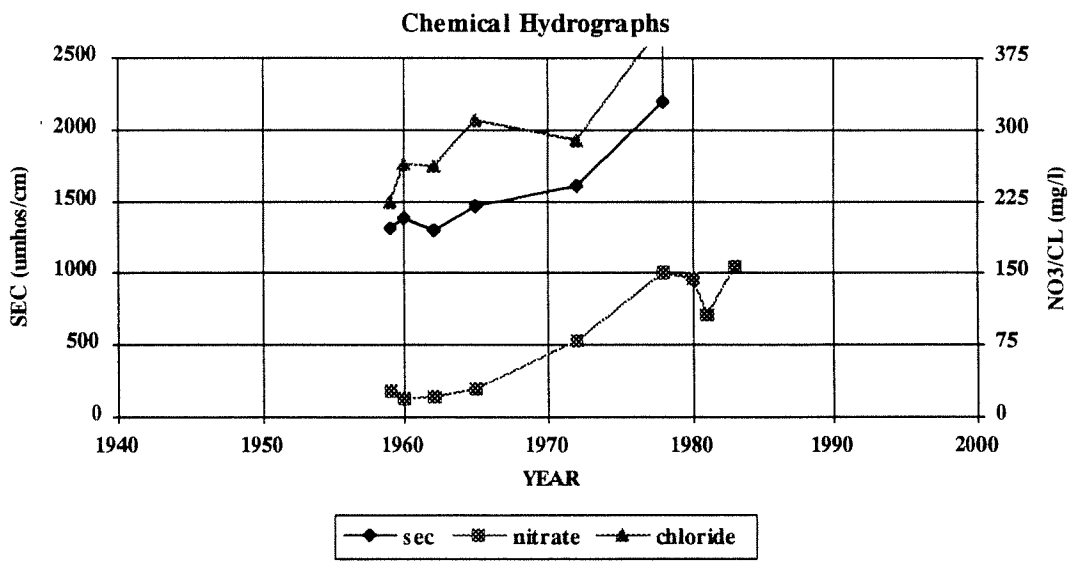
Ground Surface Elevation: 27.8

Perforation Rng Elevations -117.2 - -151.2

Depth: 198

Perforation Range: 145 - 179



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-06E03

Area: PAJARO-SPRINGFIELD

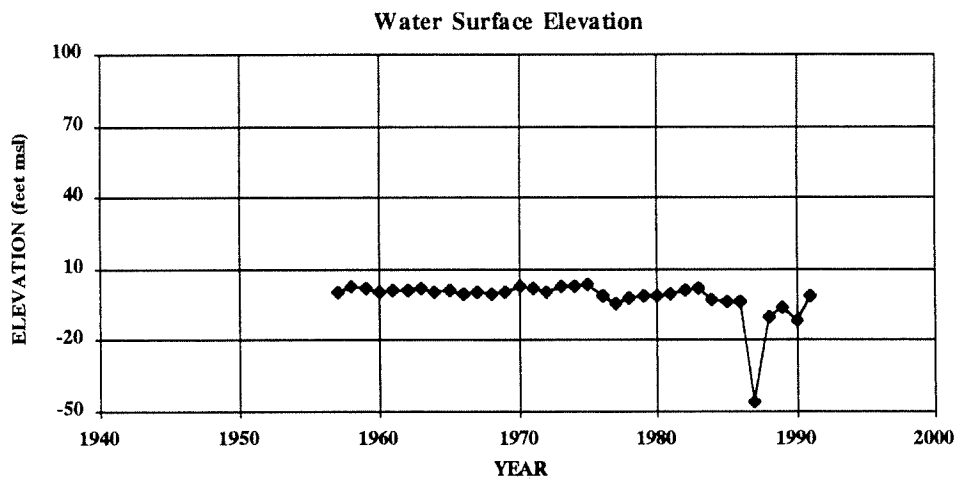
Use: IRRIGATION

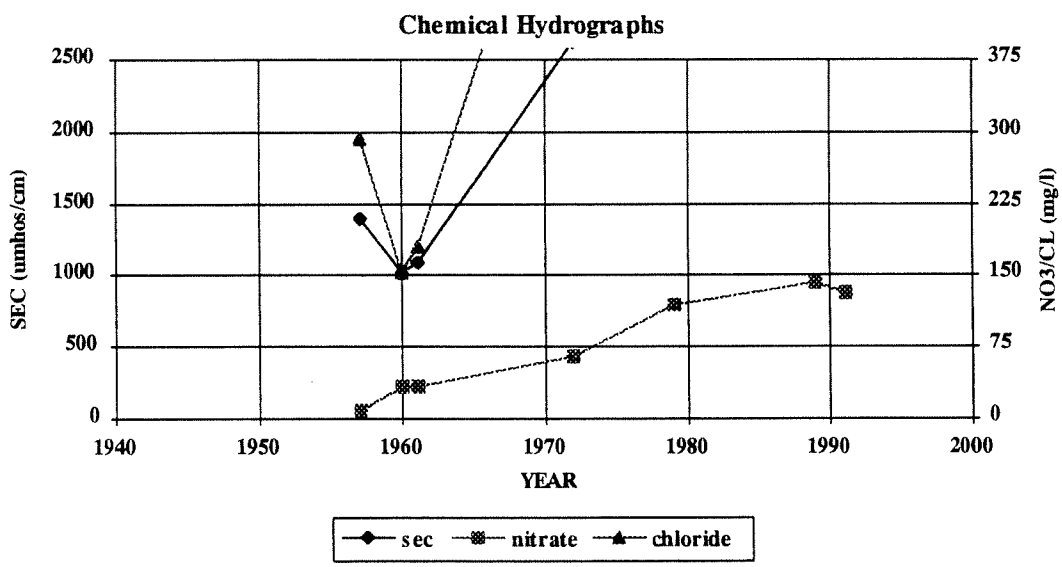
Ground Surface Elevation: 34.4

Perforation Rng Elevations -114.6 - -152.6

Depth: 192

Perforation Range: 149 - 187



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-06R01

Area: PAJARO-SPRINGFIELD

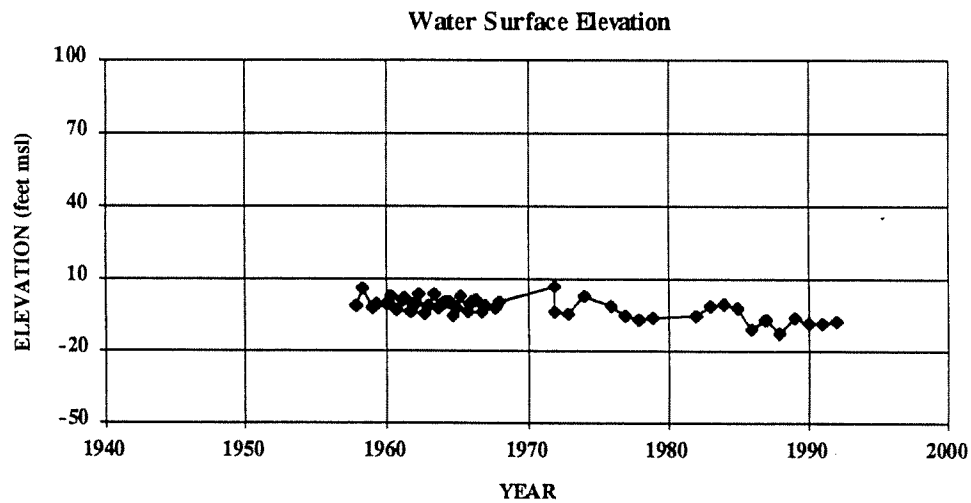
Use: IRRIGATION

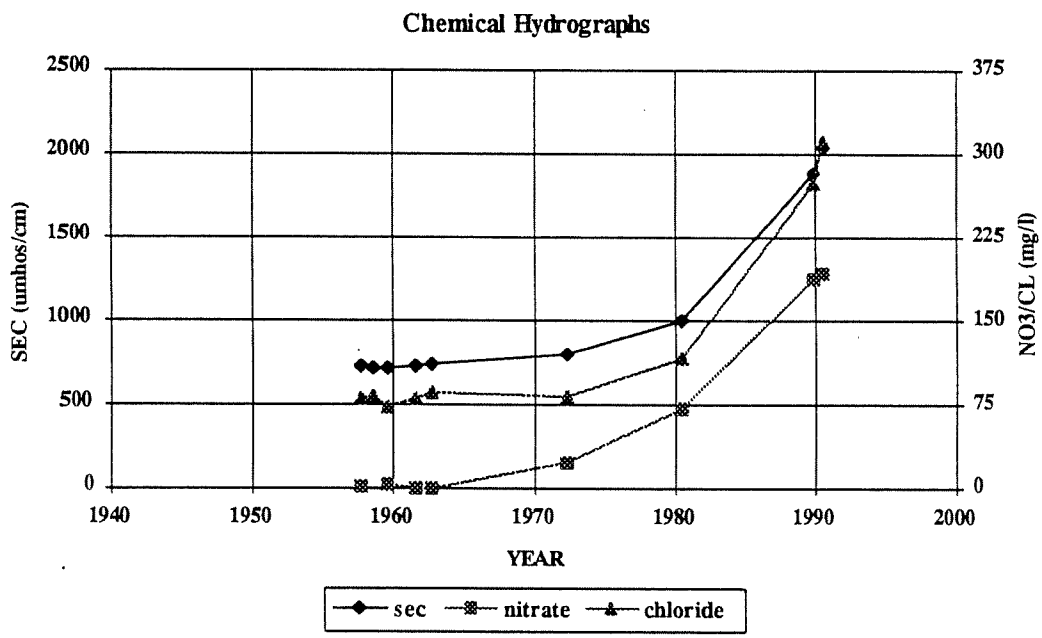
Ground Surface Elevation: 25.4

Perforation Rng Elevations -24.6 - -94.6

Depth: 120

Perforation Range: 50 - 120



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-27L01

Area: PRESSURE 180

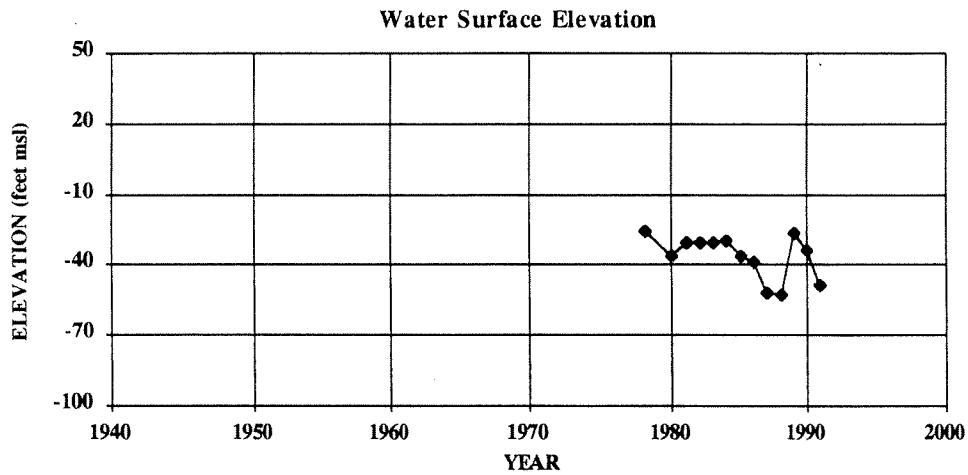
Use: IRRIGATION

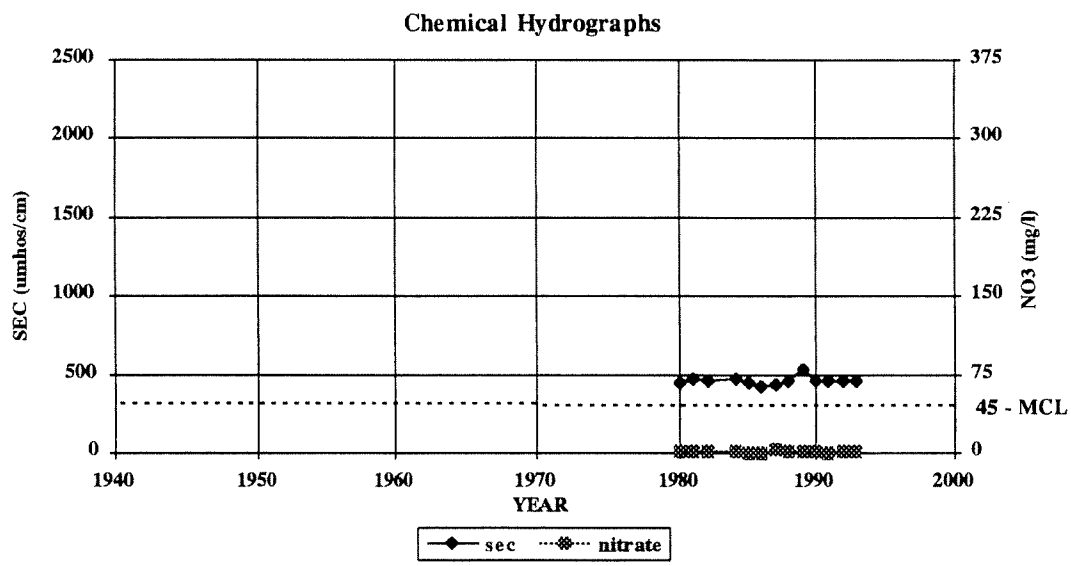
Ground Surface Elevation: 50.5

Perforation Rng Elevations -173.5 - -317.5

Depth: 388

Perforation Range: 224 - 368



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-28M01

Area: PRESSURE 180

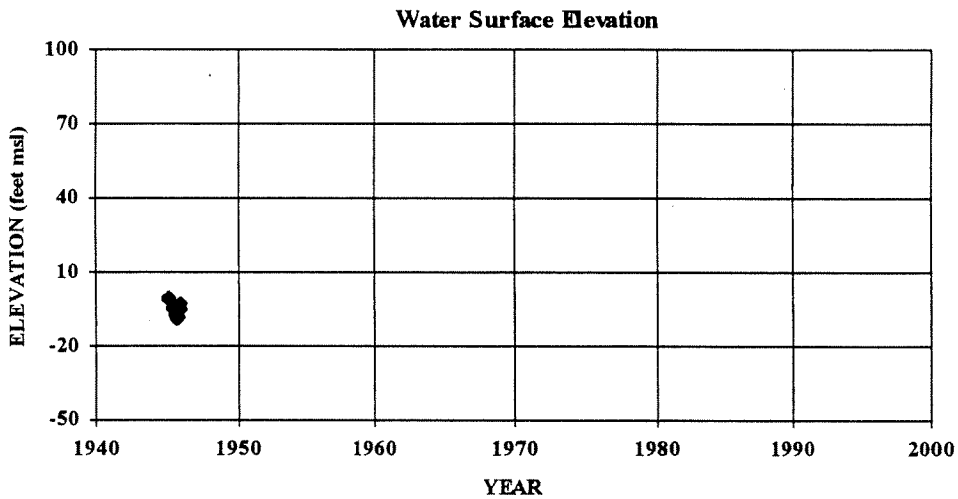
Use: IRRIGATION

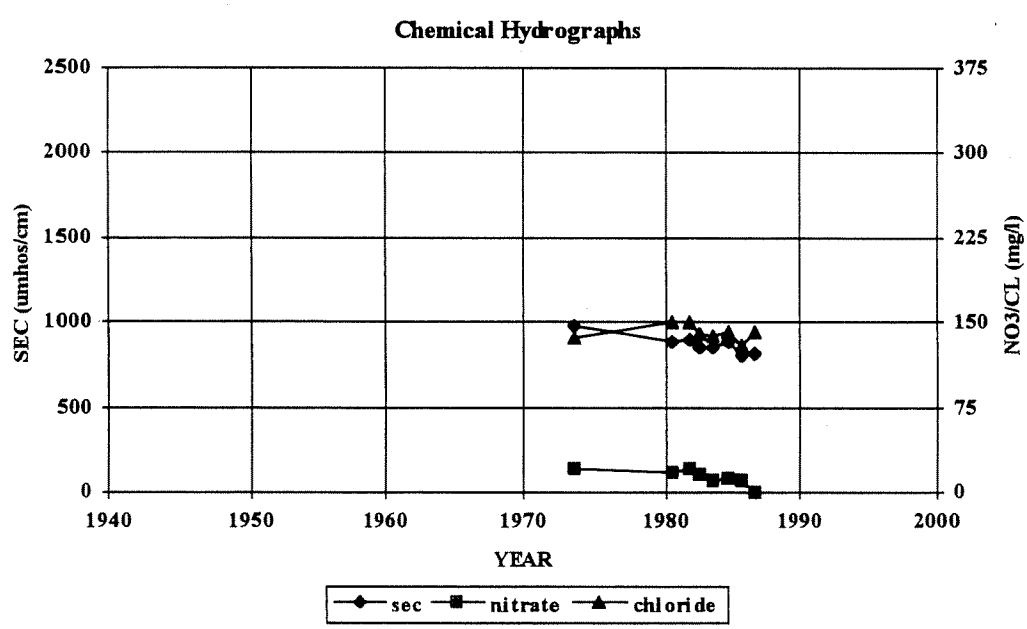
Ground Surface Elevation: 4.2

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-29R01

Area: PRESSURE 180

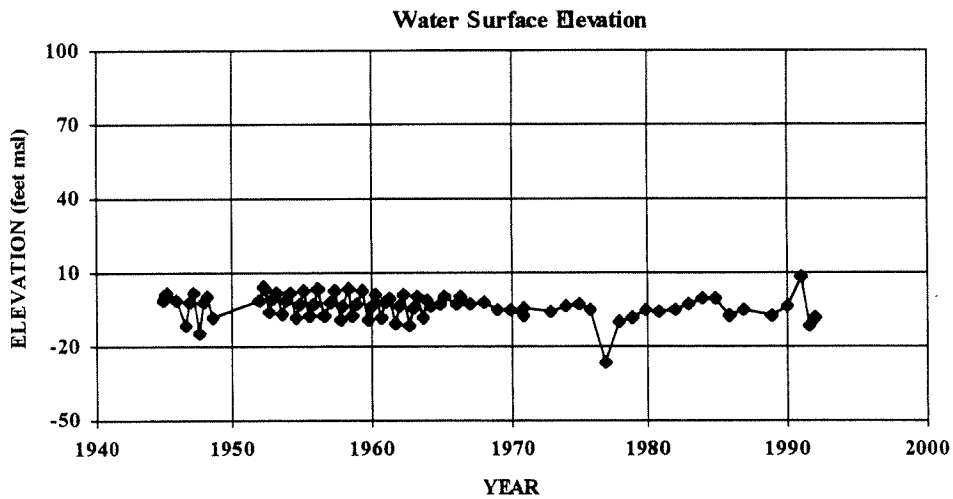
Use: IRRIGATION

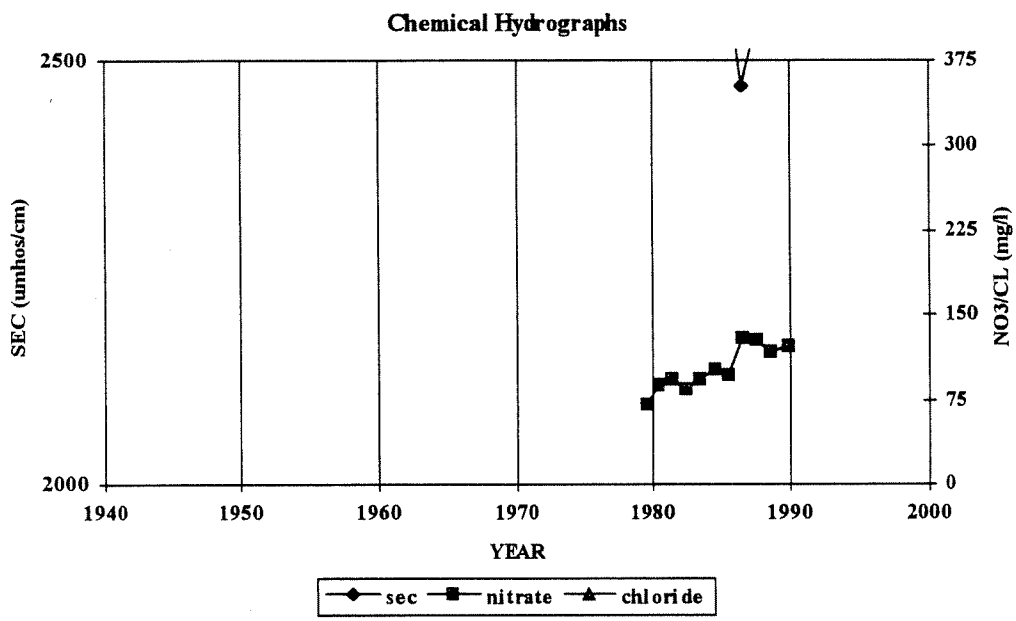
Ground Surface Elevation: 9.8

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-33E01

Area: PRESSURE 180

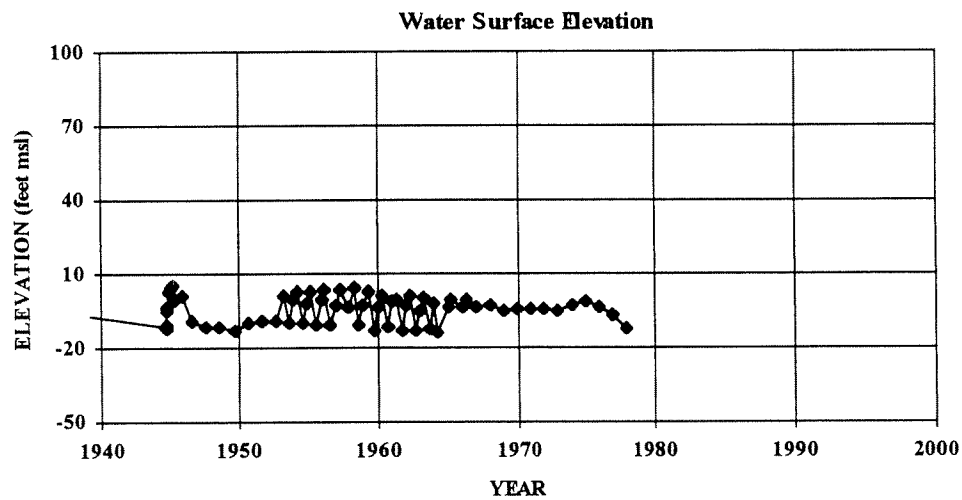
Use: IRRIGATION

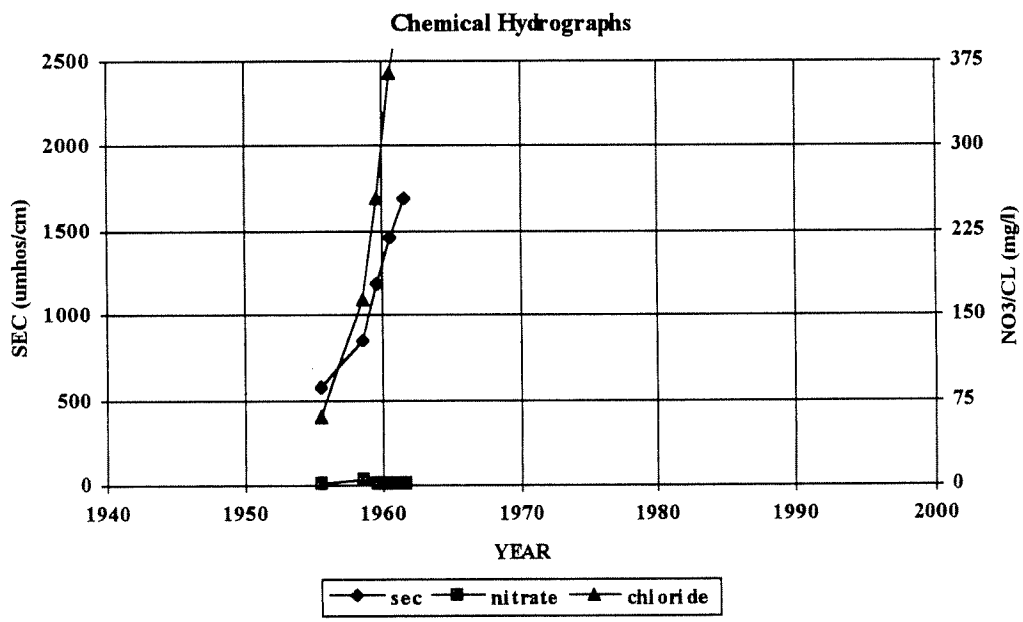
Ground Surface Elevation: 8.8

Perforation Rng Elevations: - No Data

Depth: 209

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-35L01

Area: PRESSURE 180

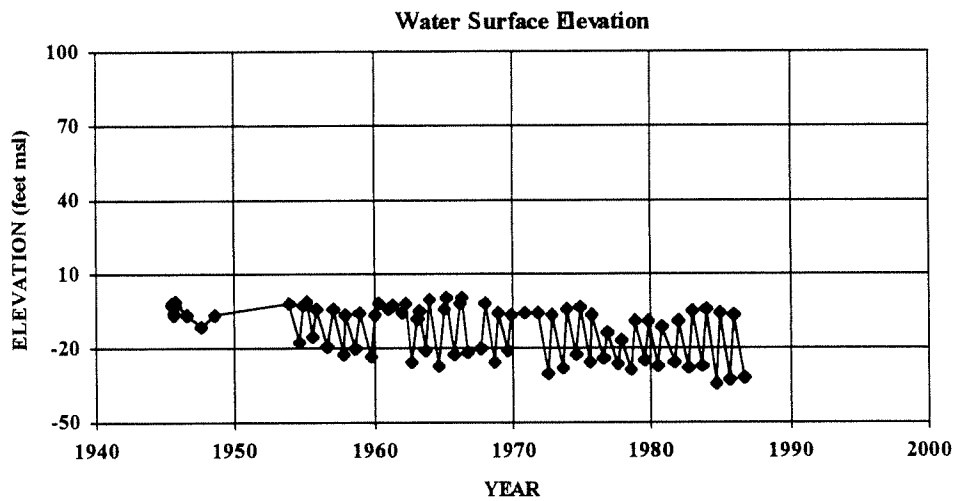
Use: Unclassified

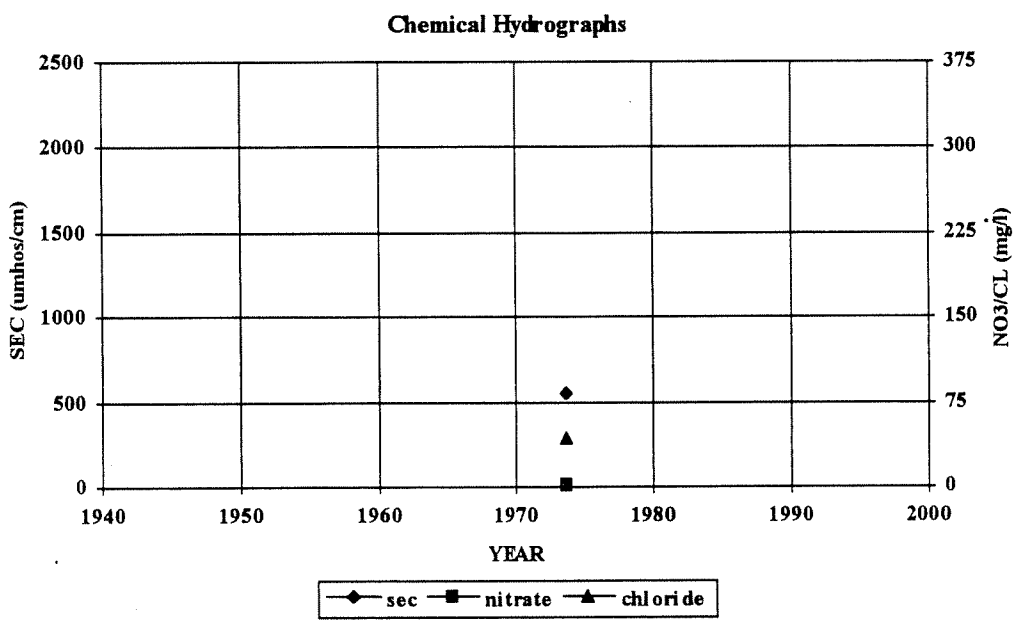
Ground Surface Elevation: 1

Perforation Rng Elevations: - No Data

Depth: 575

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-03F01

Area: PRESSURE 180

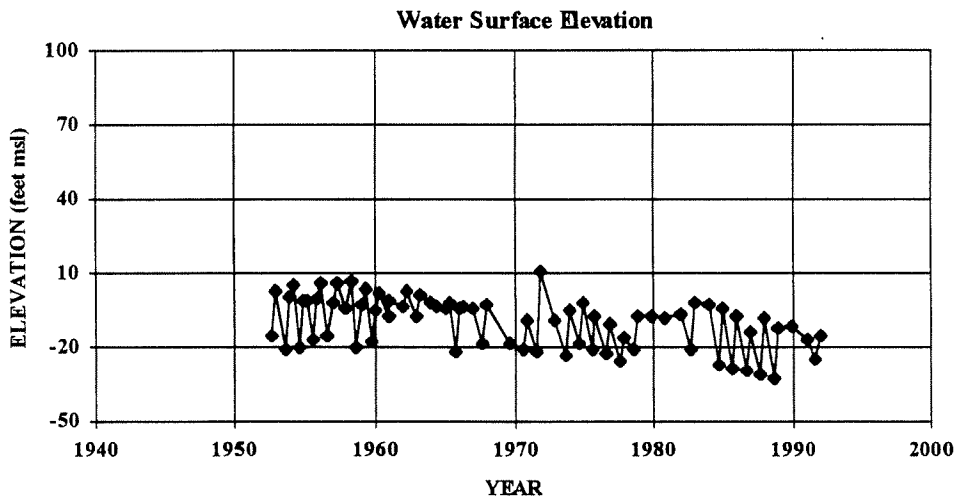
Use: IRRIGATION

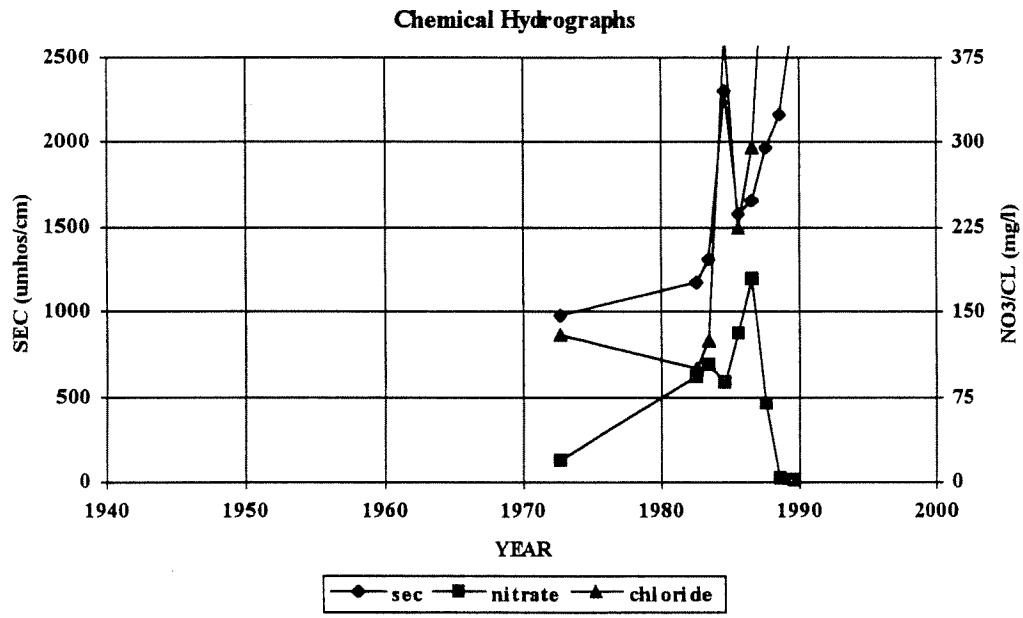
Ground Surface Elevation: 14.3

Perforation Rng Elevations: - No Data

Depth: 175

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-03K01

Area: PRESSURE 180

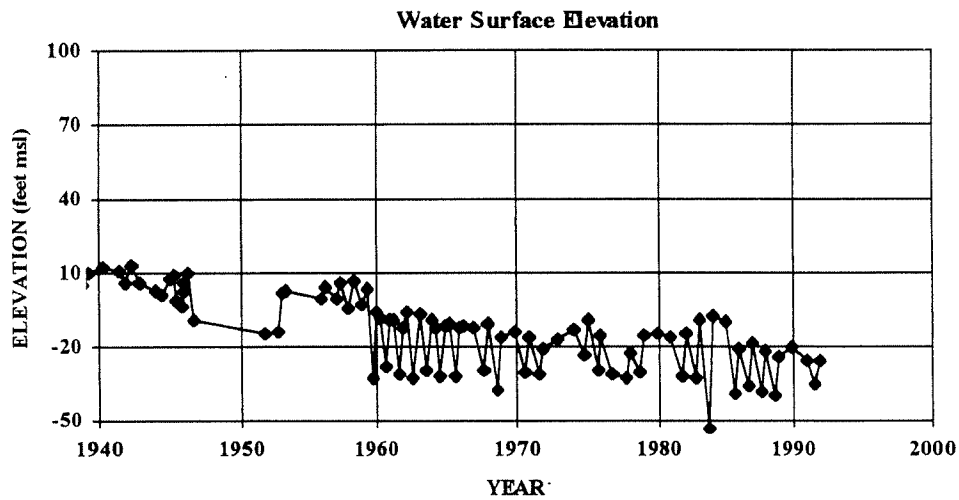
Use: IRRIGATION

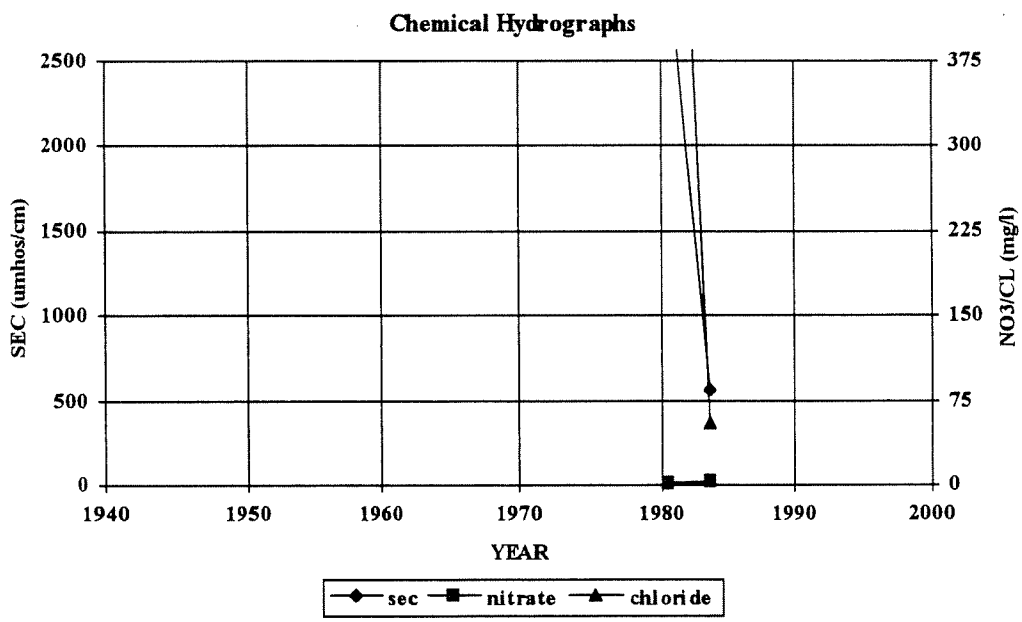
Ground Surface Elevation: 29

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-03R01

Area: PRESSURE 180

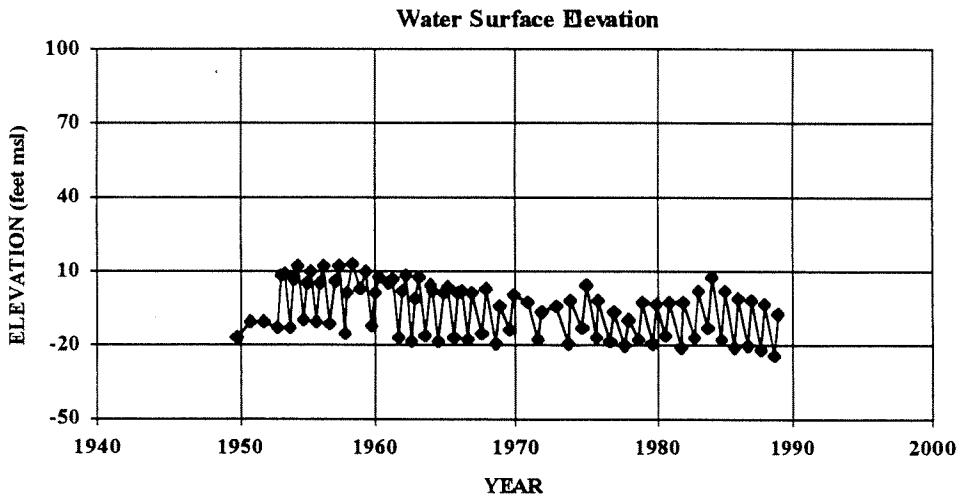
Use: IRRIGATION

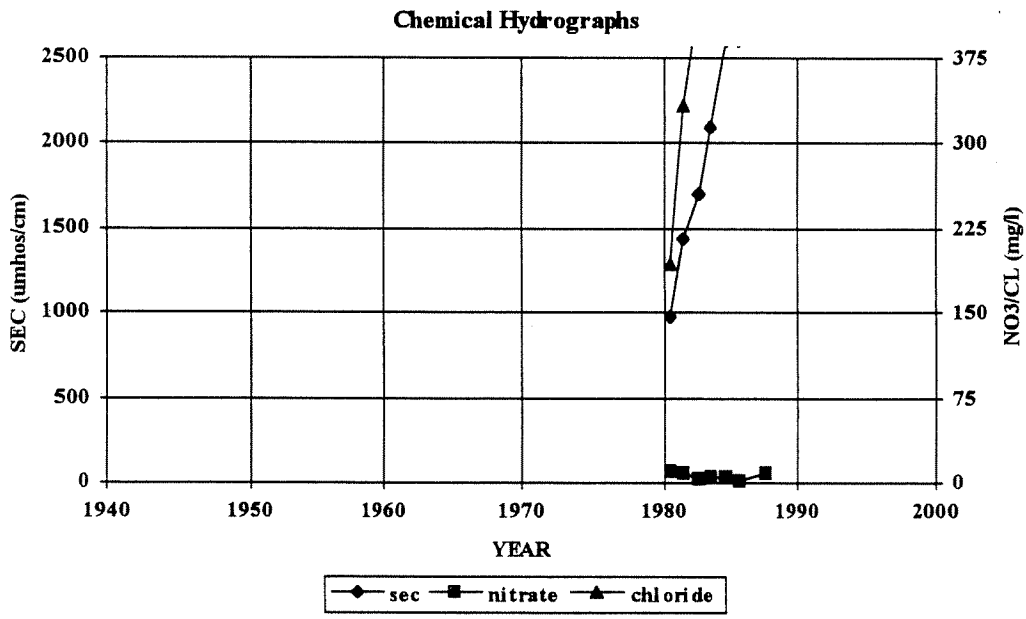
Ground Surface Elevation: 16.5

Perforation Rng Elevations: - No Data

Depth: 193

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-05R02

Area: PRESSURE 180

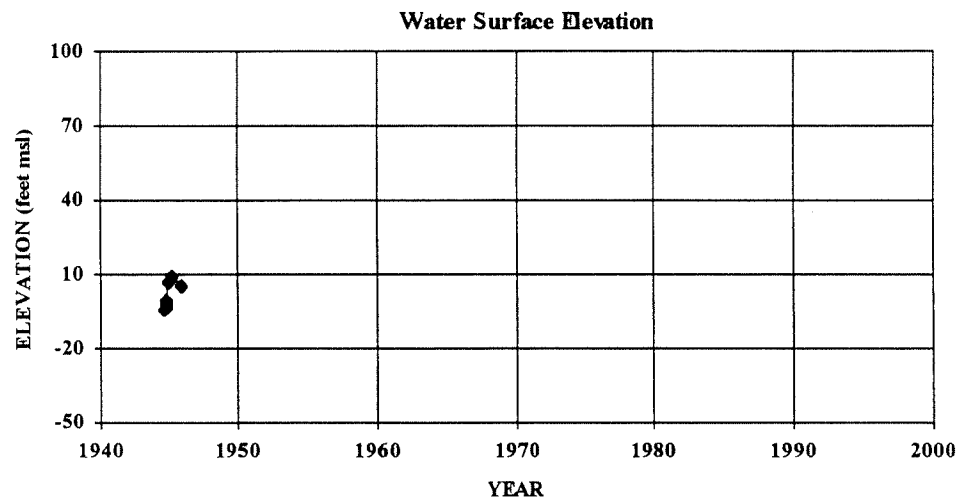
Use: Unclassified

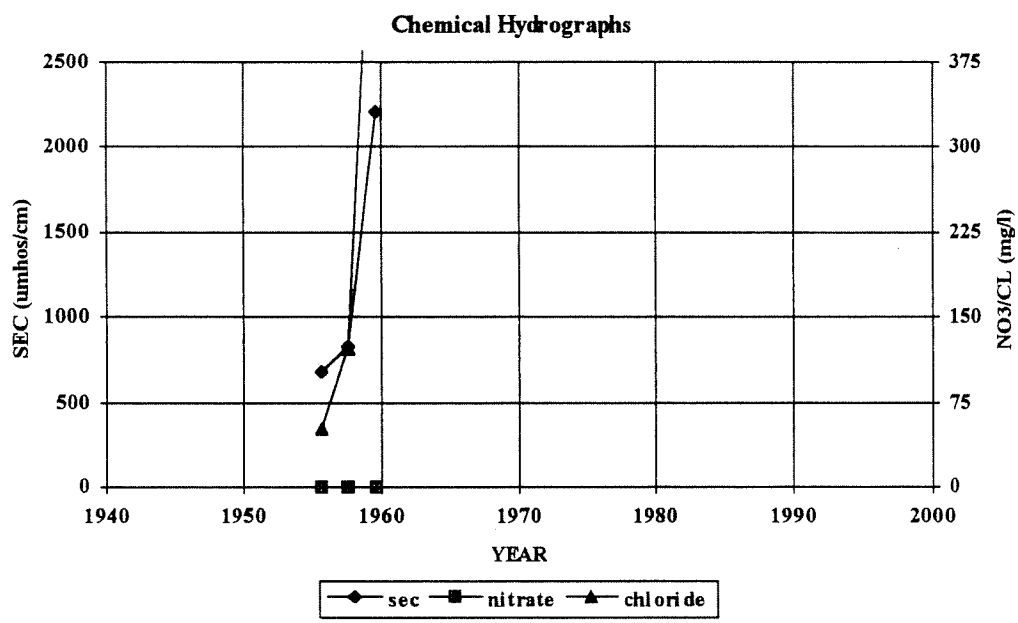
Ground Surface Elevation: No Data

Perforation Rng Elevations: - No Data

Depth: 209

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-19R01

Area: PRESSURE 400

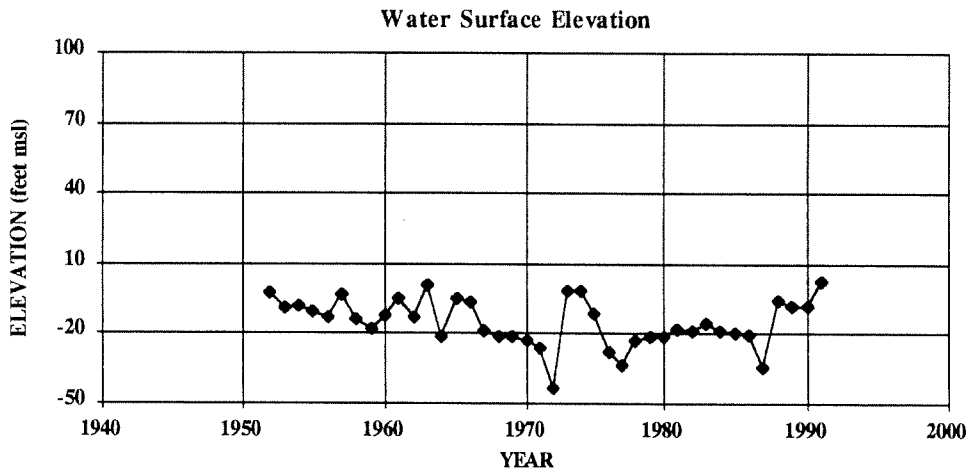
Use: IRRIGATION

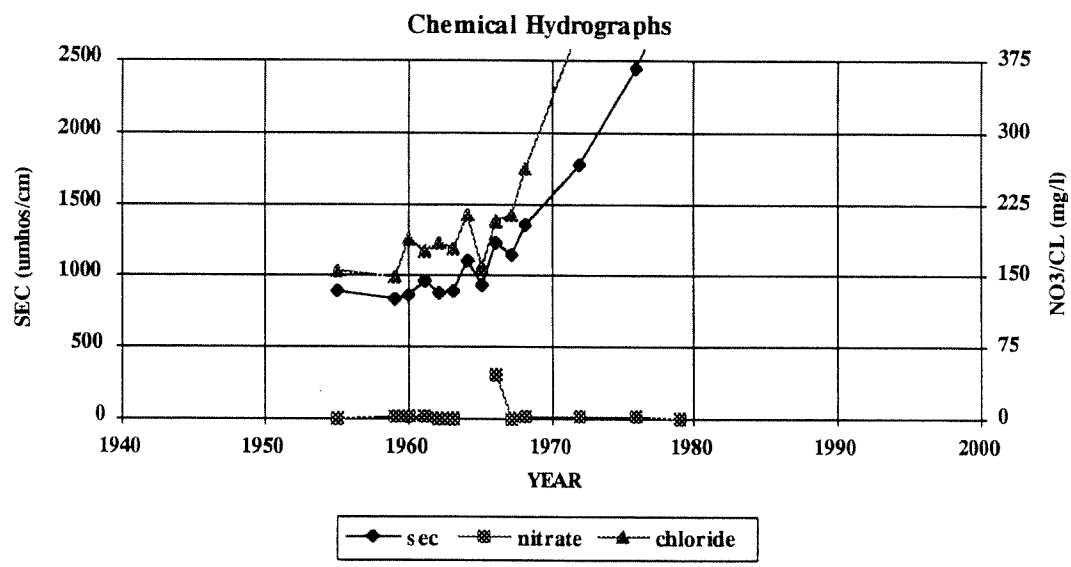
Ground Surface Elevation: 13.2

Perforation Rng Elevations -340.8 - -494.8

Depth: 508

Perforation Range: 354 - 508



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-19H01

Area: PRESSURE 400

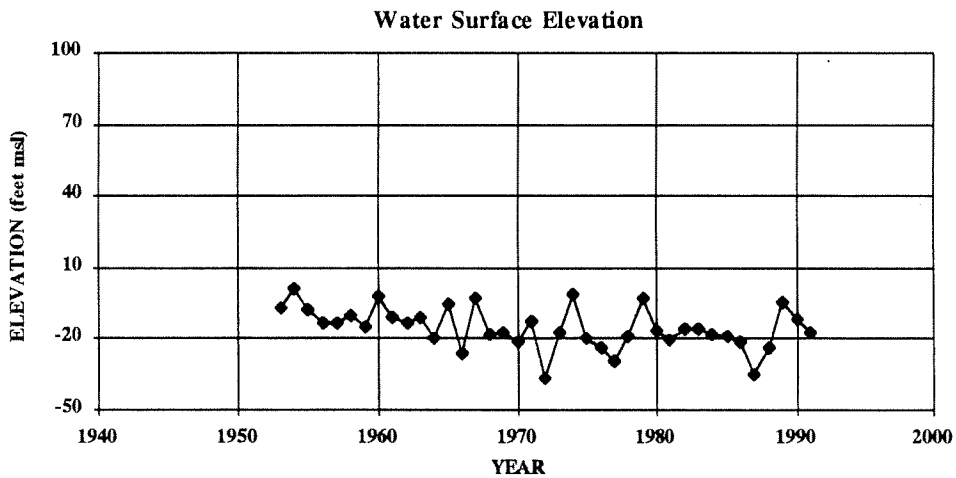
Use: IRRIGATION

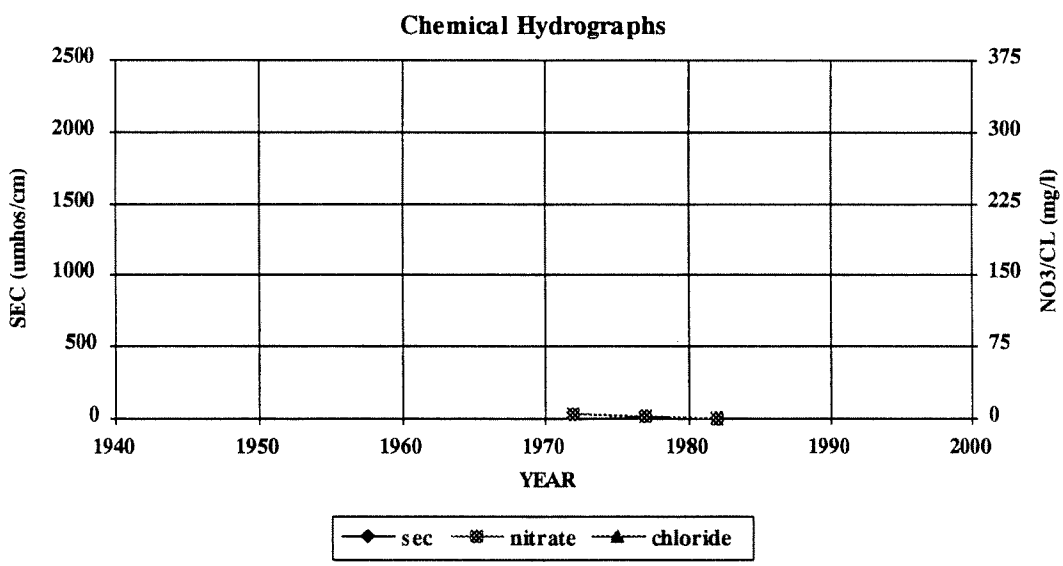
Ground Surface Elevation: 21.1

Perforation Rng Elevations -206.9 - -306.9

Depth: 340

Perforation Range: 228 - 328



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-20J01

Area: PRESSURE 400

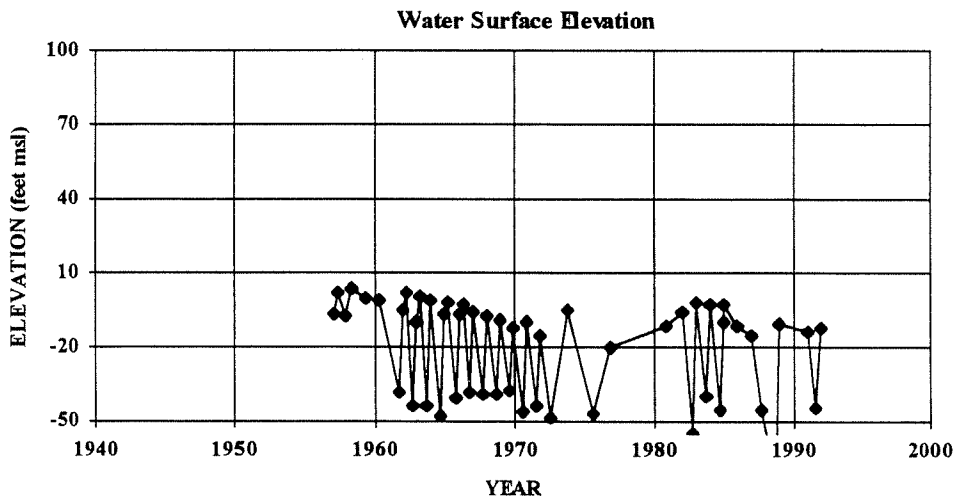
Use: IRRIGATION

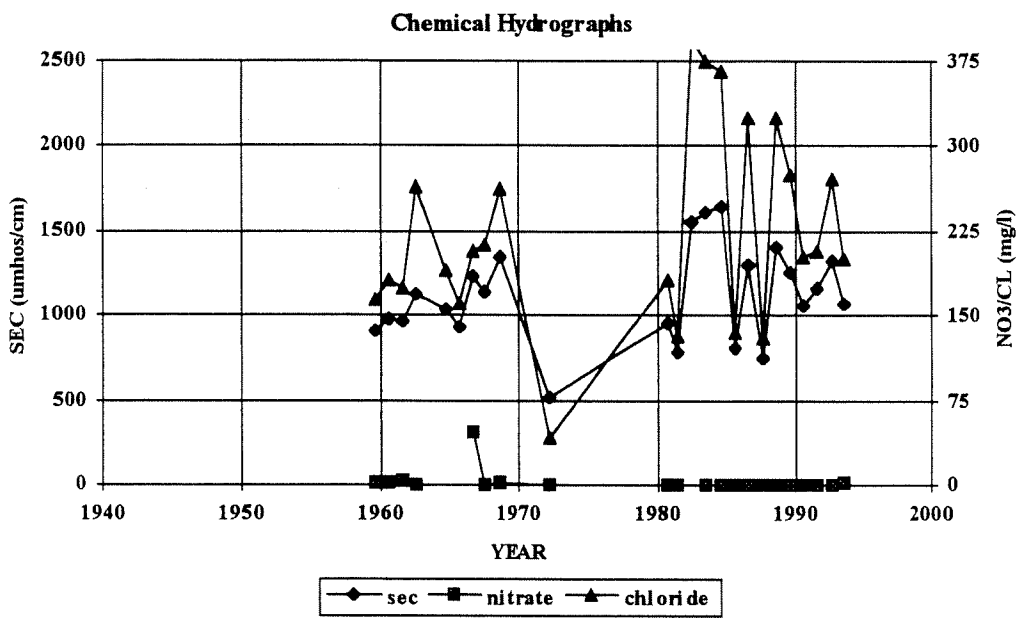
Ground Surface Elevation: 15.3

Perforation Rng Elevations: - No Data

Depth: 600

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-27M01

Area: PRESSURE 400

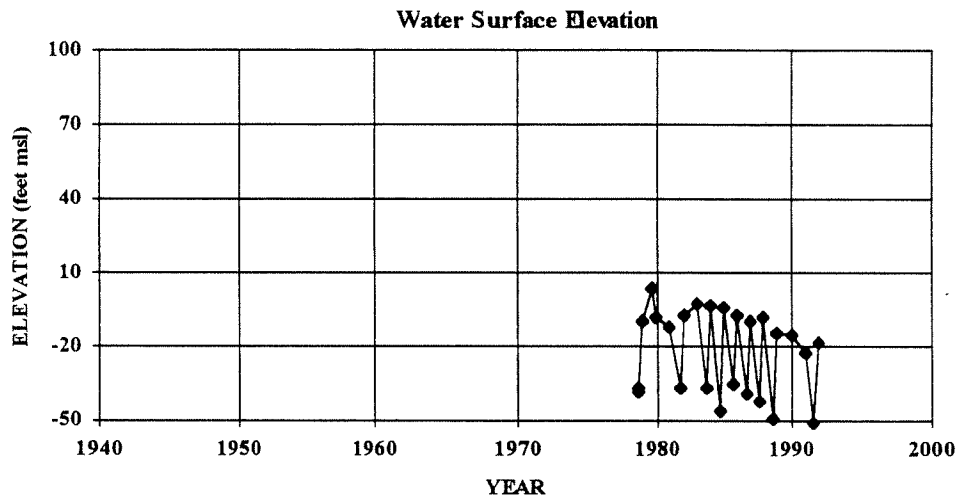
Use: IRRIGATION

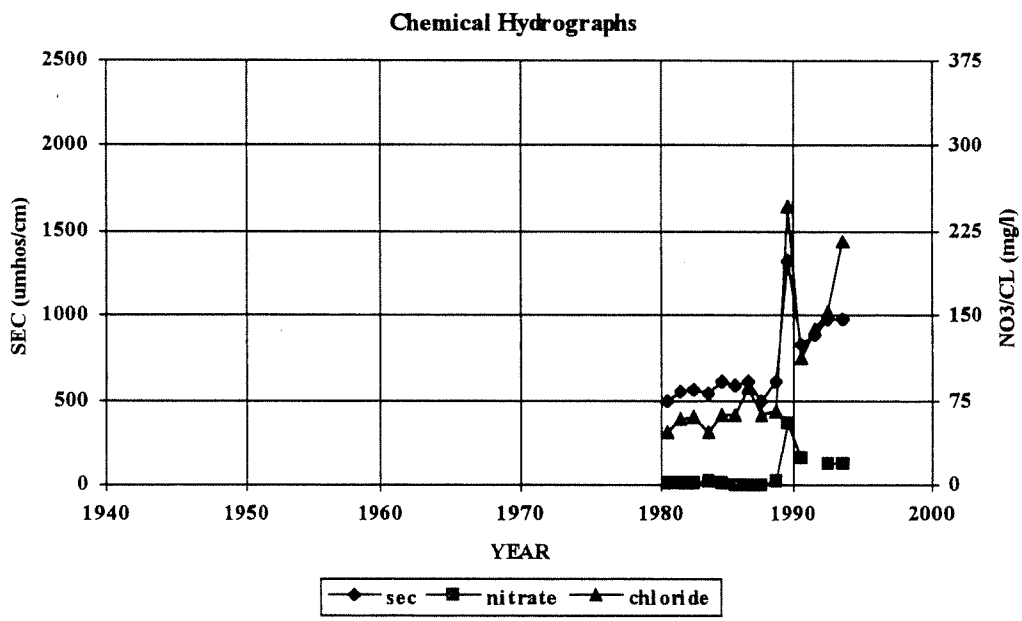
Ground Surface Elevation: 16.2

Perforation Rng Elevations: -191.8 - -611.8

Depth: 680

Perforation Range: 208 - 628



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-20M02

Area: PRESSURE 400

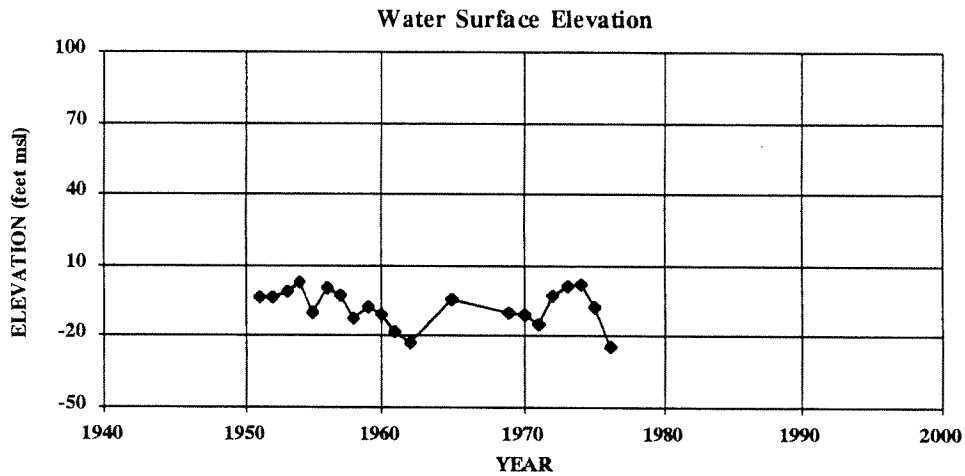
Use: IRRIGATION

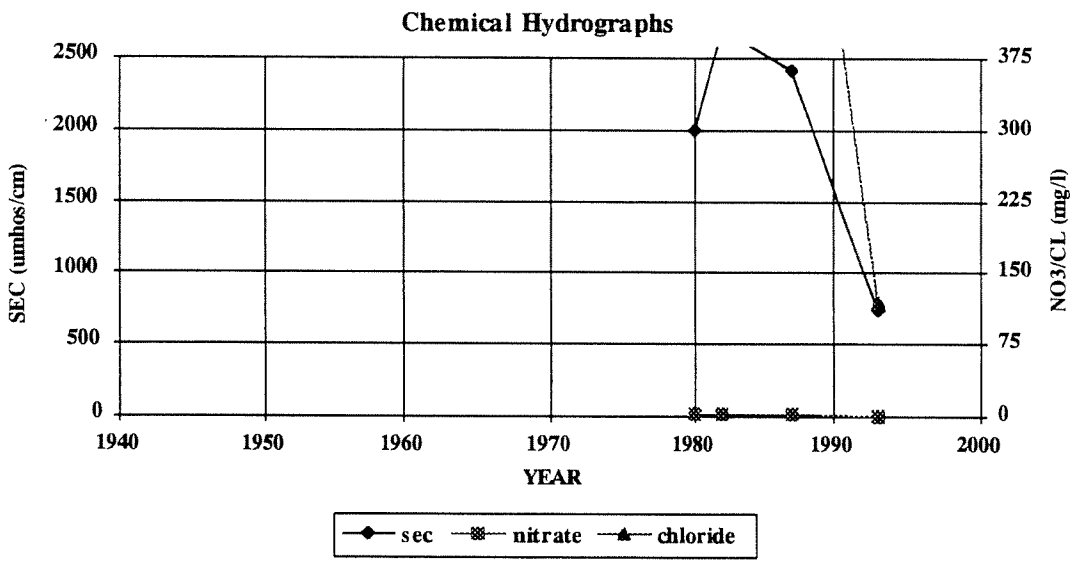
Ground Surface Elevation: 27.1

Perforation Rng Elevations -334.9 - -502.9

Depth: 600

Perforation Range: 362 - 530



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-21N01

Area: PRESSURE 400

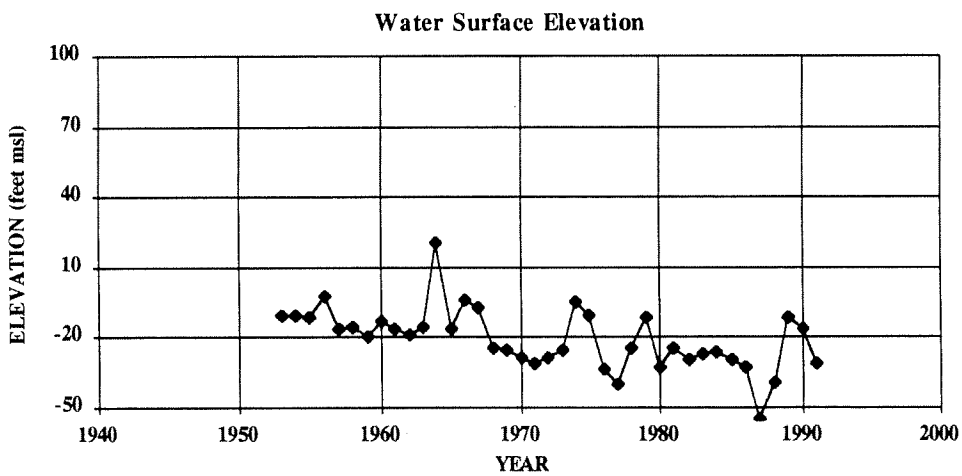
Use: IRRIGATION

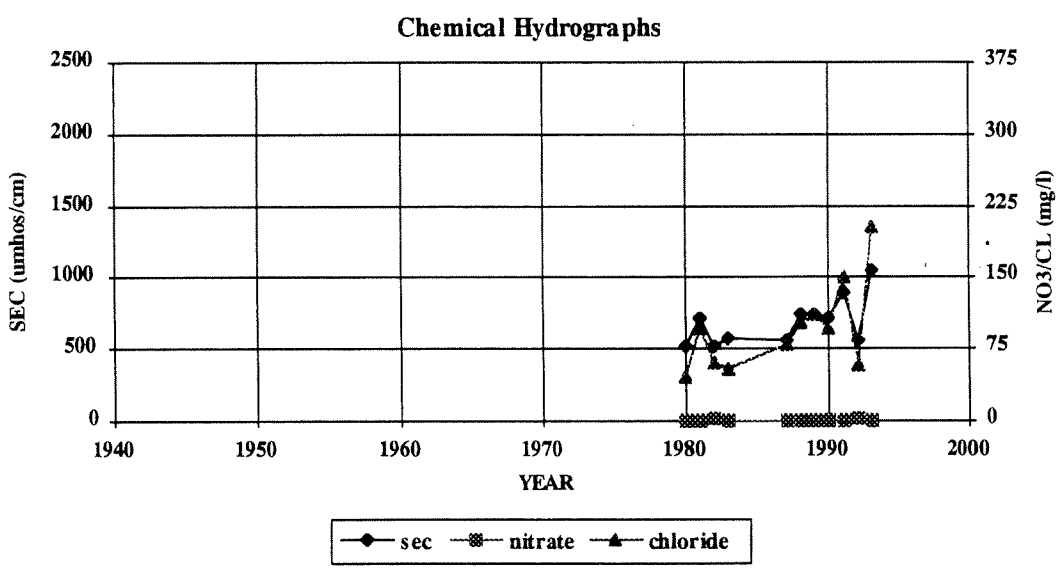
Ground Surface Elevation: 17.3

Perforation Rng Elevations -351.7 - -532.7

Depth: 550

Perforation Range: 369 - 550



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-27P01

Area: PRESSURE 400

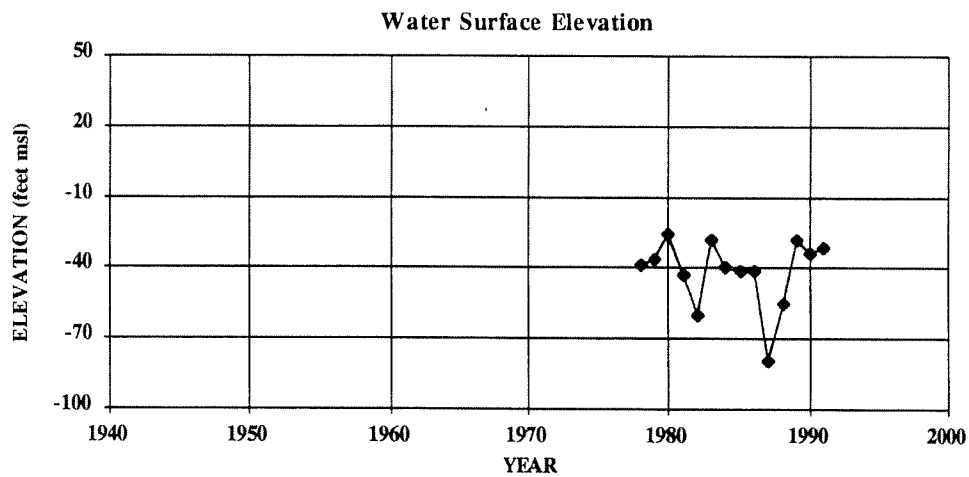
Use: IRRIGATION

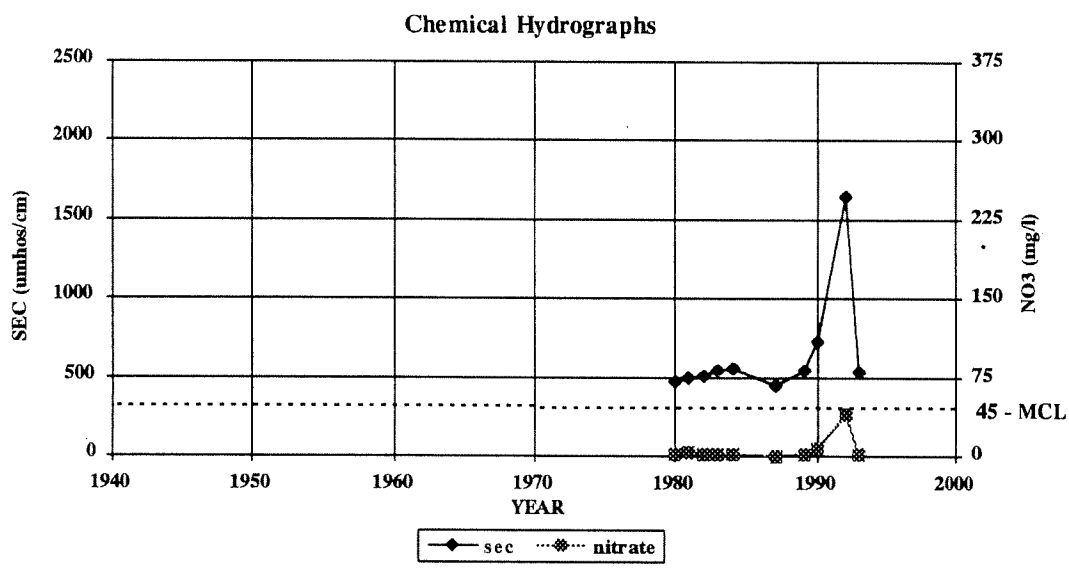
Ground Surface Elevation: 50.5

Perforation Rng Elevations -361.5 - -521.5

Depth: 606

Perforation Range: 412 - 572



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-29C02

Area: PRESSURE 400

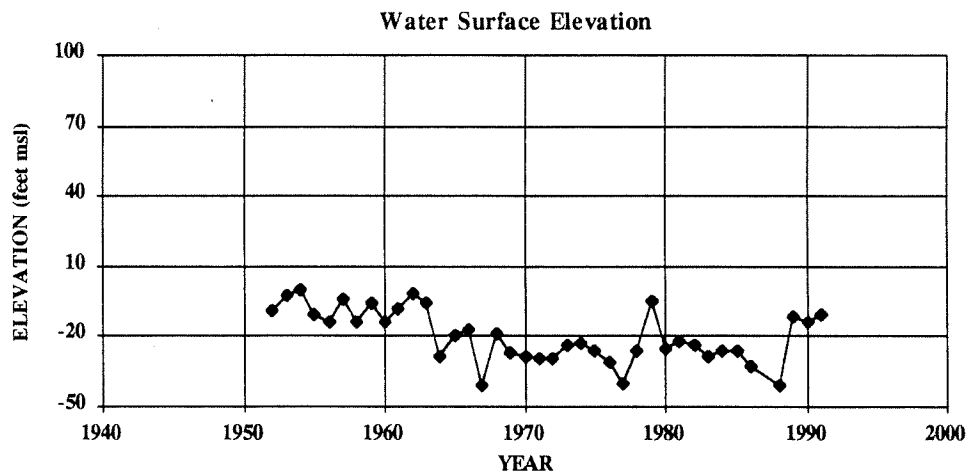
Use: IRRIGATION

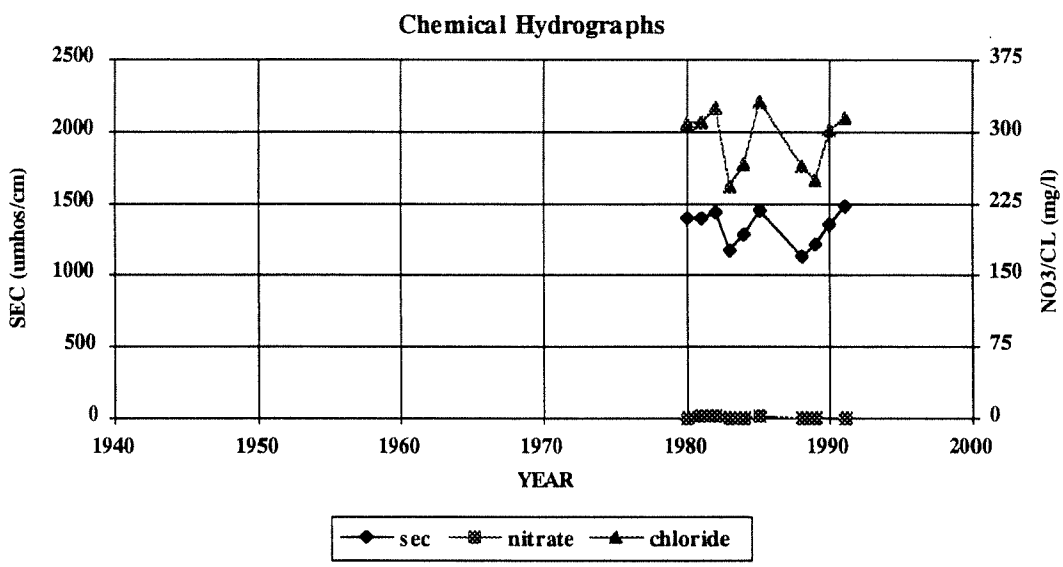
Ground Surface Elevation: 14.3

Perforation Rng Elevations -339.7 - -535.7

Depth: 550

Perforation Range: 354 - 550



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-29D03

Area: PRESSURE 400

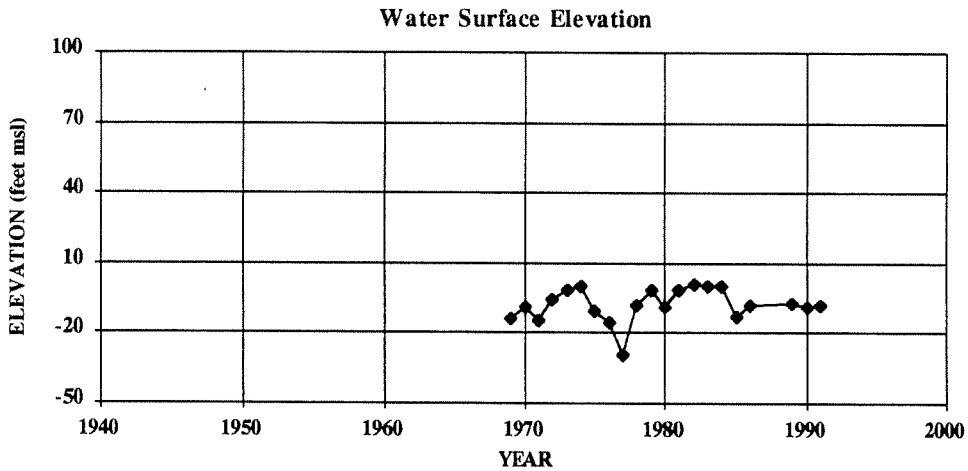
Use: IRRIGATION

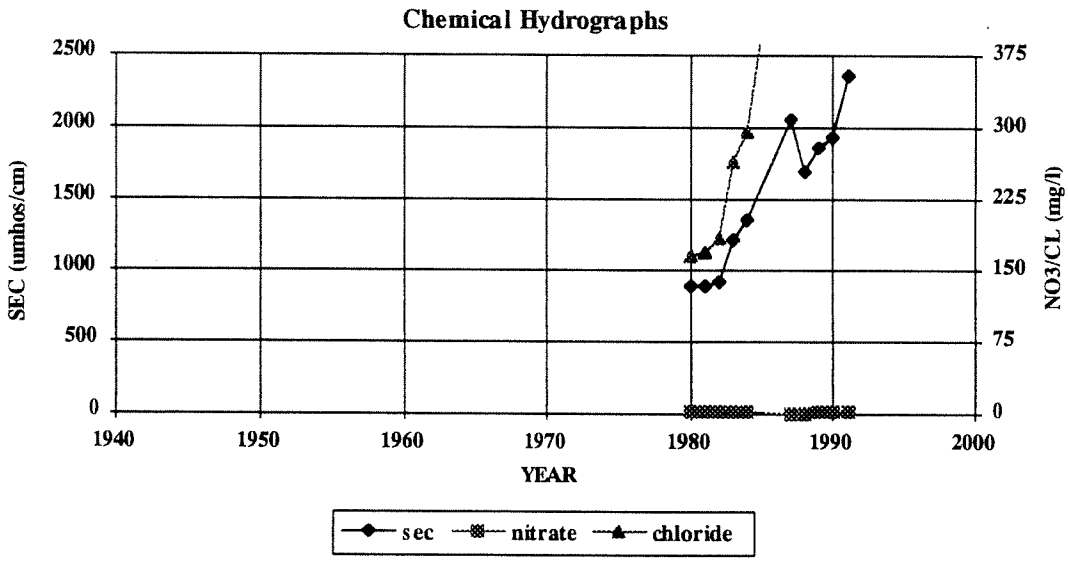
Ground Surface Elevation: 9.7

Perforation Rng Elevations -422.3 - -622.3

Depth: 632

Perforation Range: 432 - 632



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-29F02

Area: PRESSURE 400

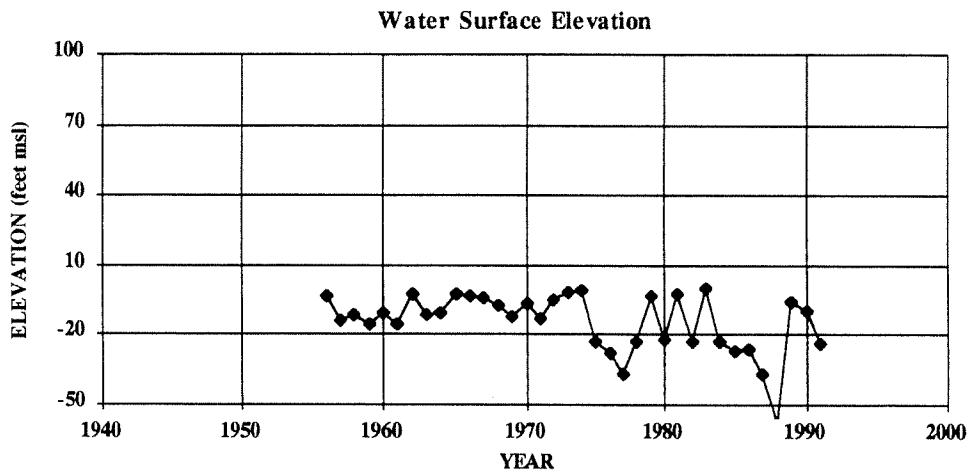
Use: IRRIGATION

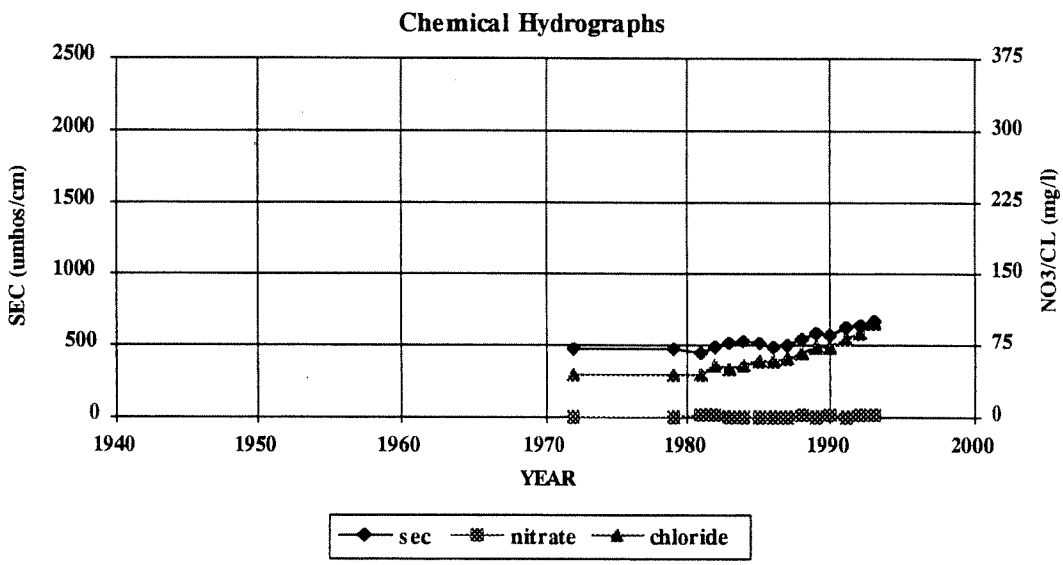
Ground Surface Elevation: 18

Perforation Rng Elevations -329 - -521

Depth: 549

Perforation Range: 347 - 539



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-29M02

Area: PRESSURE 400

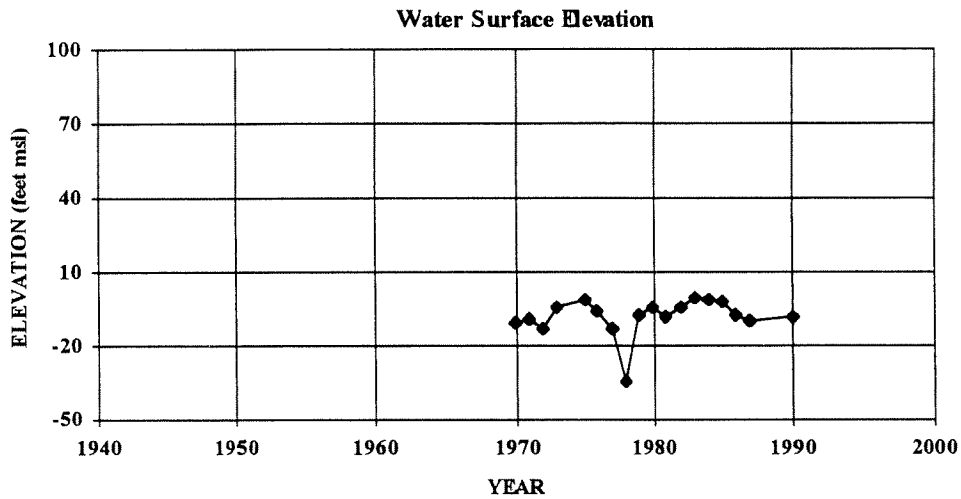
Use: IRRIGATION

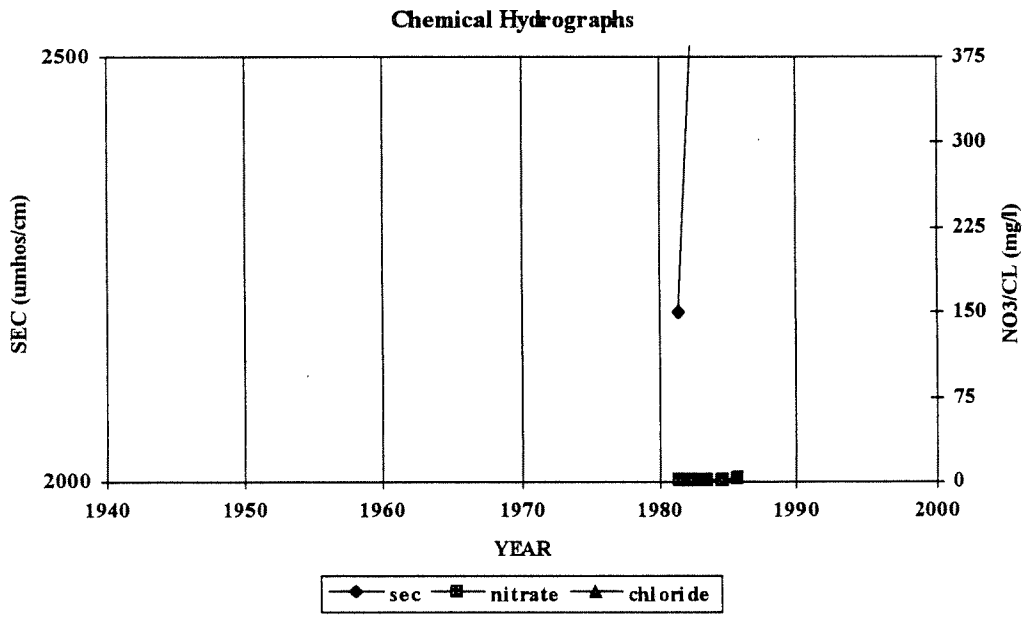
Ground Surface Elevation: No Data

Perforation Rng Elevations: -

Depth: 611

Perforation Range: 410 - 566



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-30A01

Area: PRESSURE 400

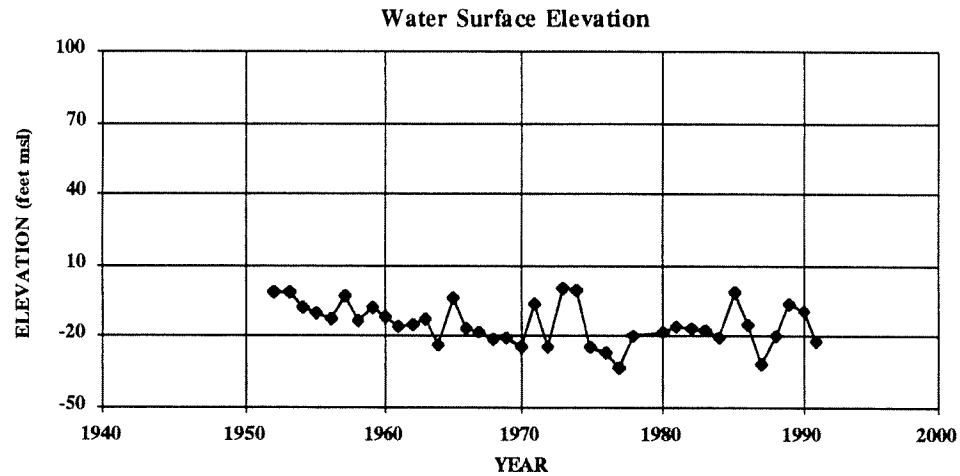
Use: IRRIGATION

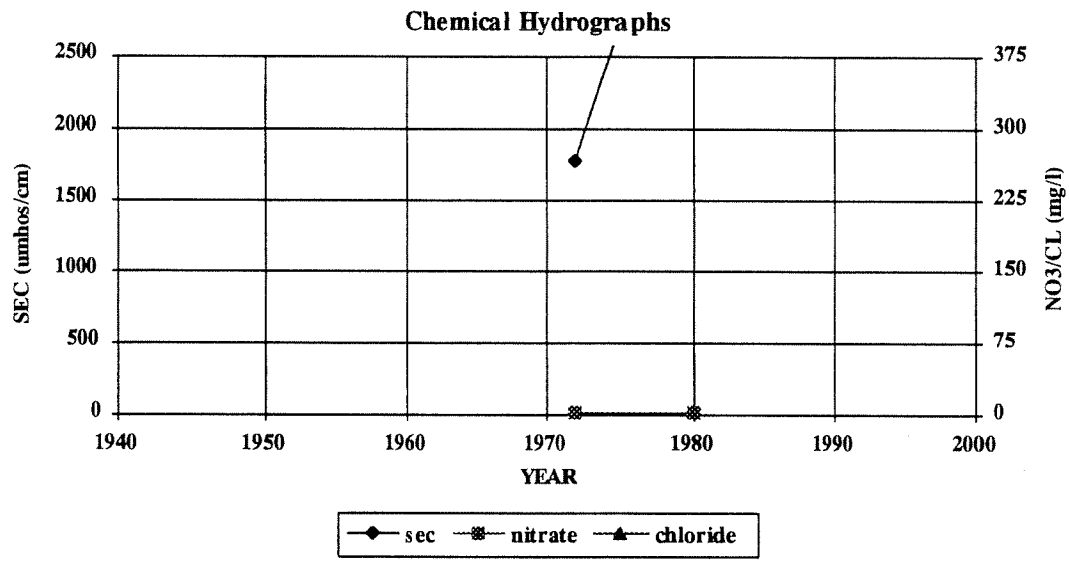
Ground Surface Elevation: 16.2

Perforation Rng Elevations -375.8 - -585.8

Depth: 602

Perforation Range: 392 - 602



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-30H01

Area: PRESSURE 400

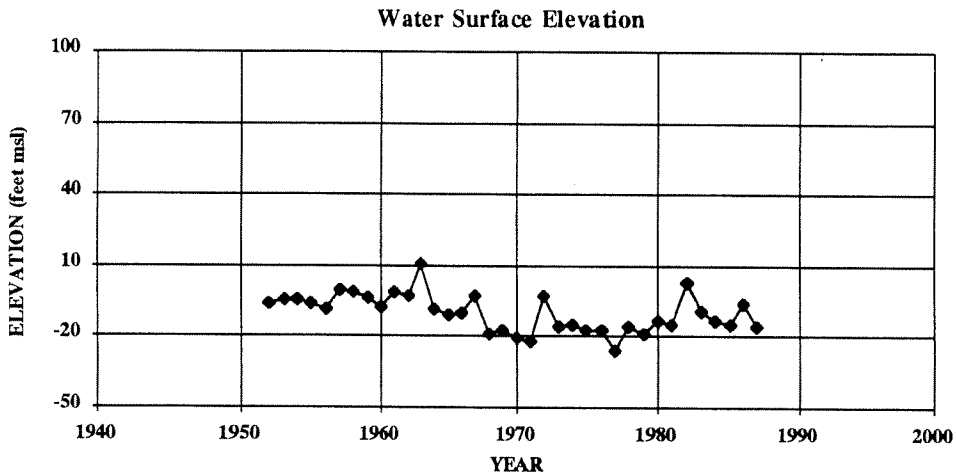
Use: IRRIGATION

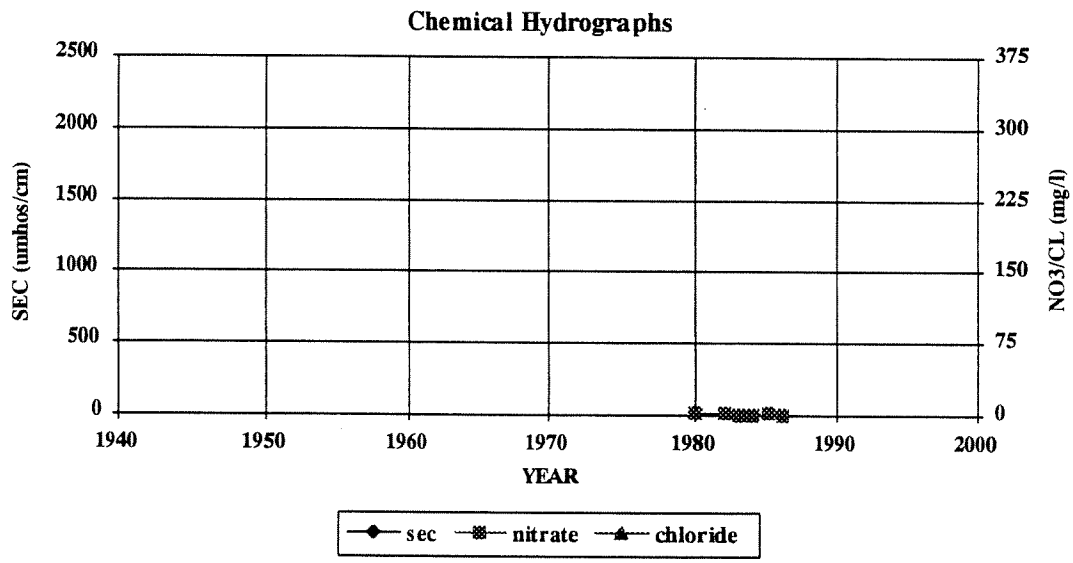
Ground Surface Elevation: 8.8

Perforation Rng Elevations -311.2 - -541.2

Depth: 550

Perforation Range: 320 - 550



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-30L01

Area: PRESSURE 400

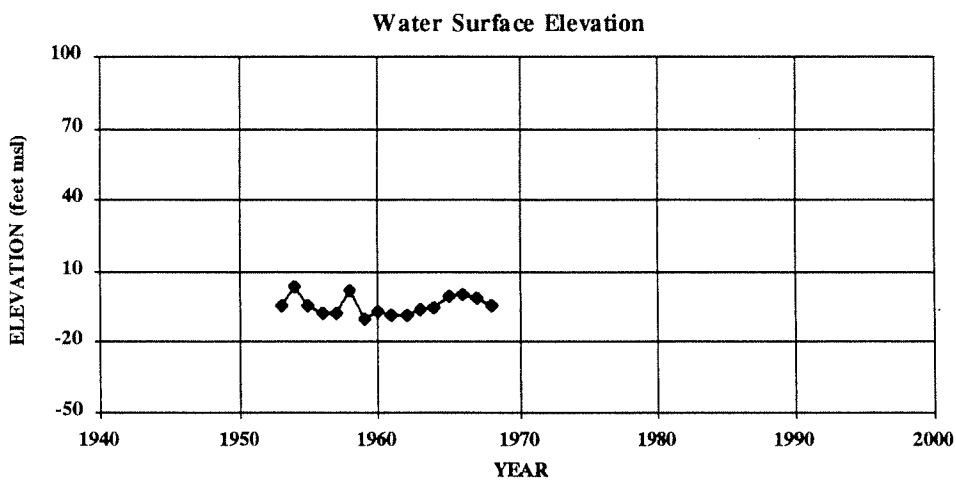
Use: IRRIGATION

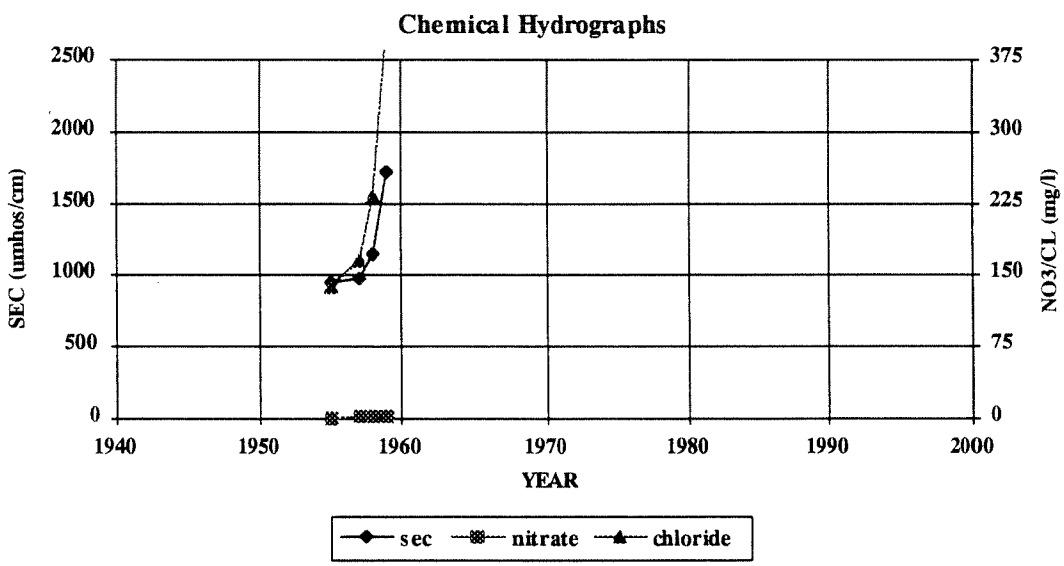
Ground Surface Elevation: 9.2

Perforation Rng Elevations -346.8 - -595.8

Depth: 605

Perforation Range: 356 - 605



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-30Q02

Area: PRESSURE 400

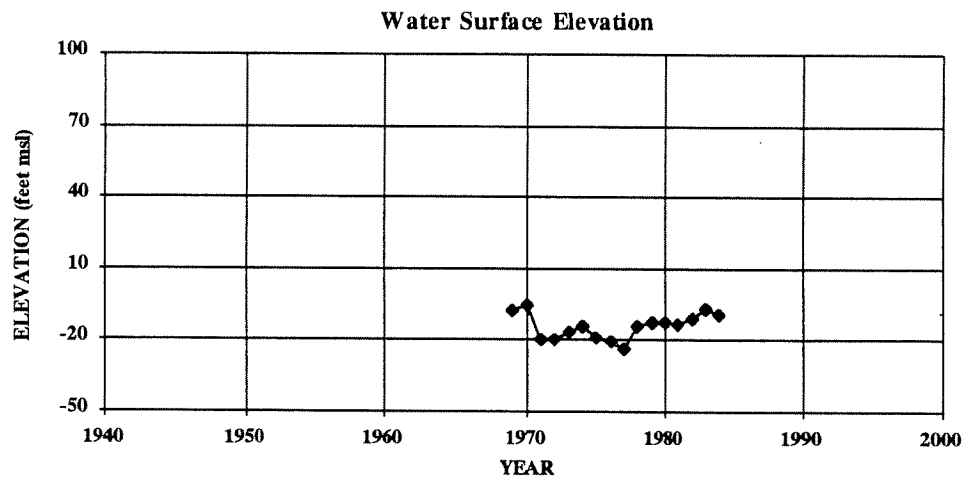
Use: IRRIGATION

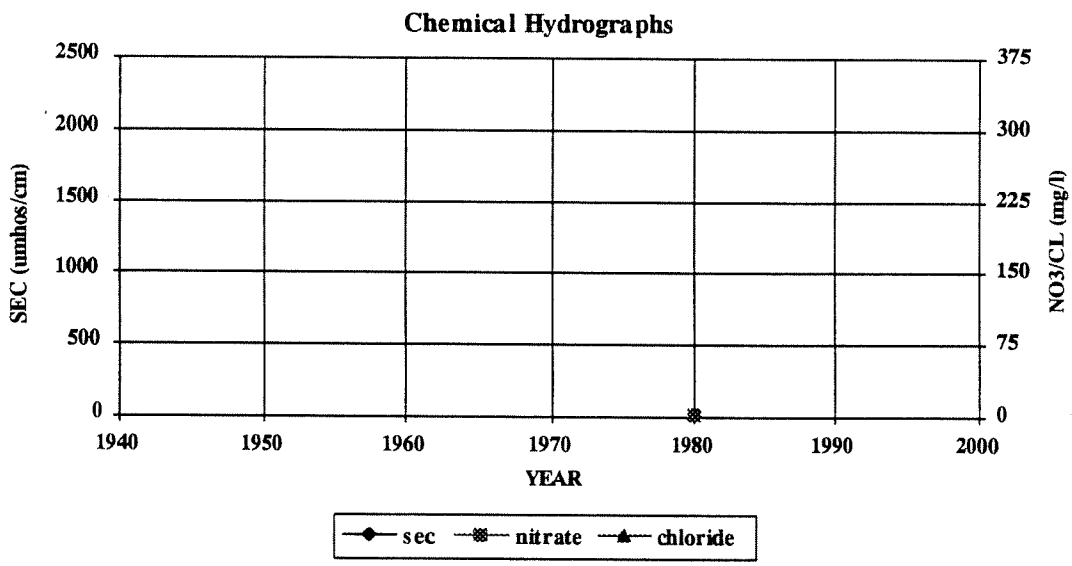
Ground Surface Elevation: 10.5

Perforation Rng Elevations -339.5 - -543.5

Depth: 554

Perforation Range: 350 - 554



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-31D02

Area: PRESSURE 400

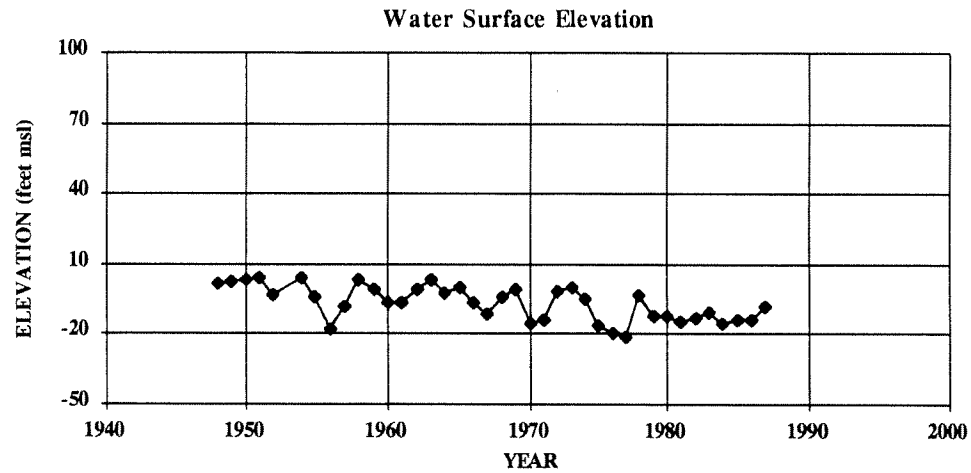
Use: IRRIGATION

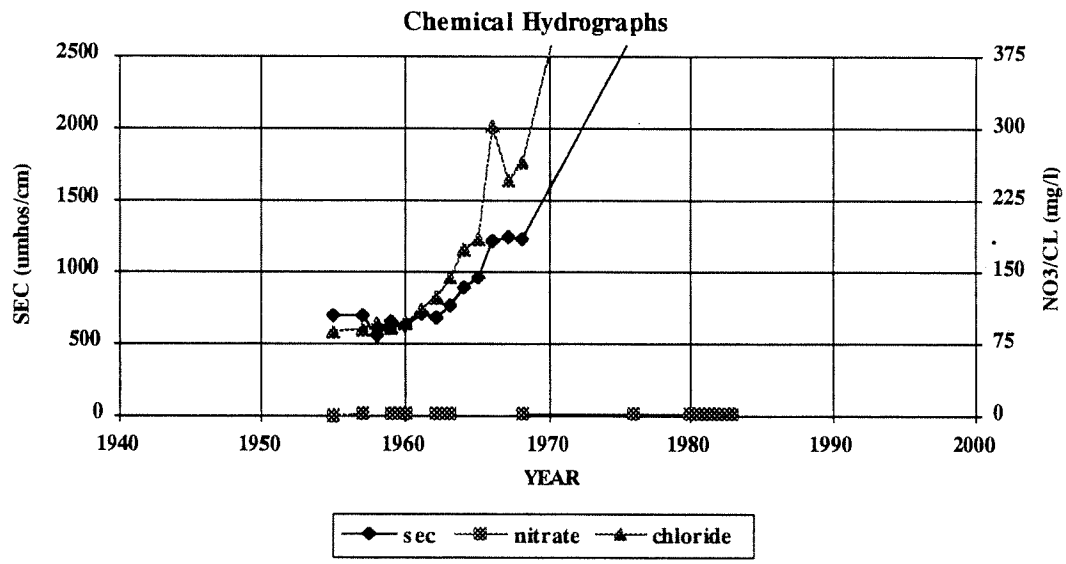
Ground Surface Elevation: 9.1

Perforation Rng Elevations -348.9 - -528.9

Depth: 559

Perforation Range: 358 - 538



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-31M02

Area: PRESSURE 400

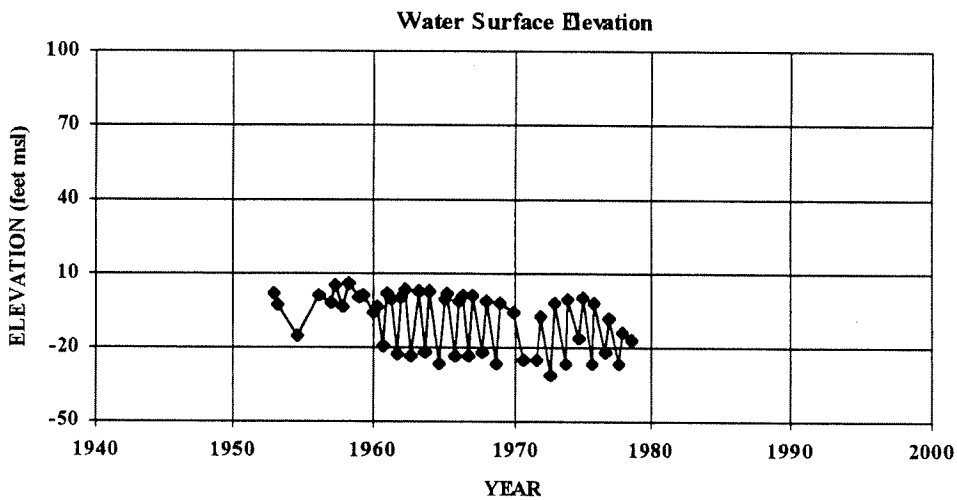
Use: IRRIGATION

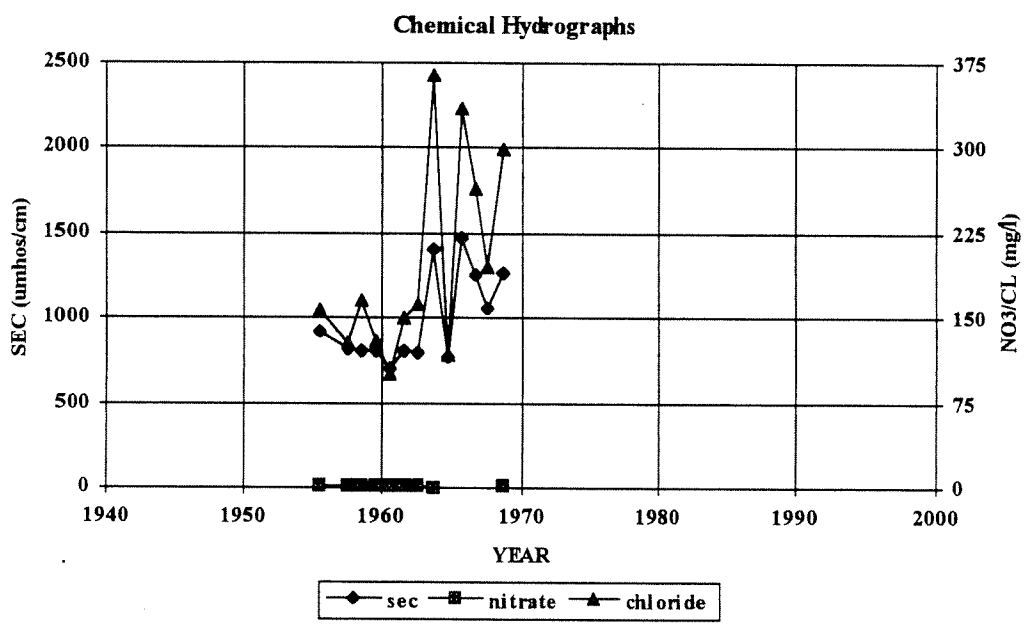
Ground Surface Elevation: 9.1

Perforation Rng Elevations: - No Data

Depth: 620

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-31N02

Area: PRESSURE 400

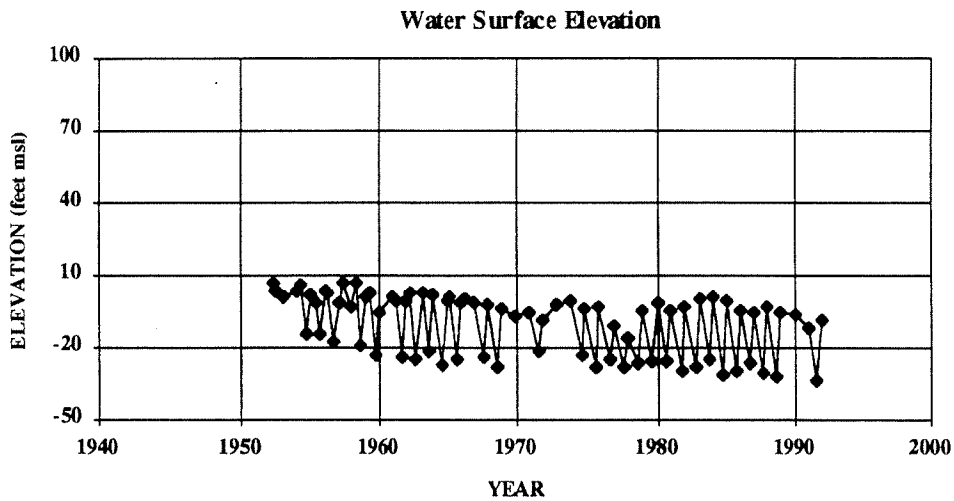
Use: IRRIGATION

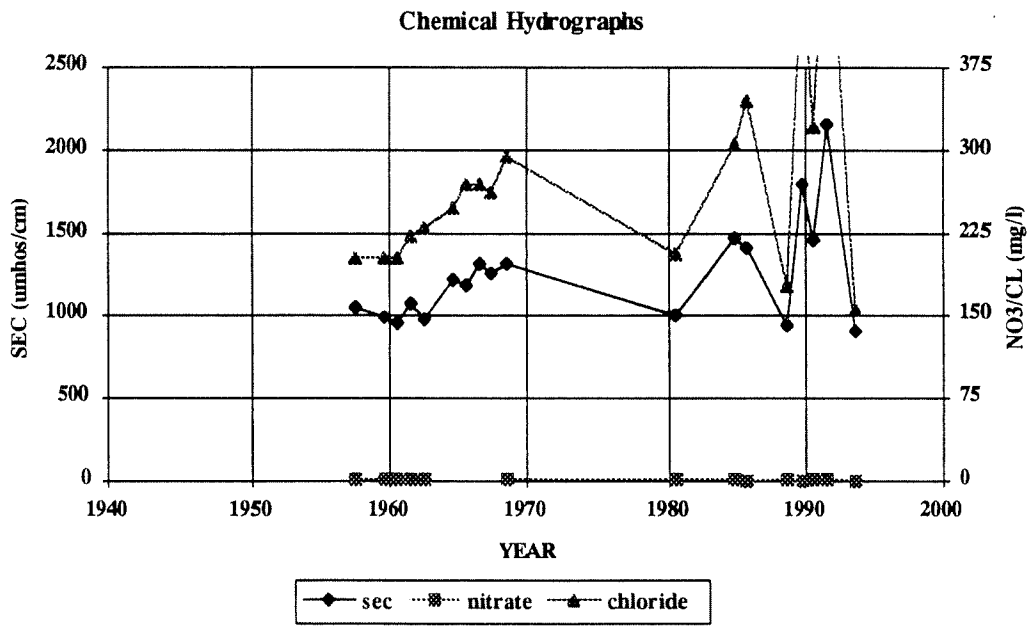
Ground Surface Elevation: 10

Perforation Rng Elevations -314 - -519

Depth: 576

Perforation Range: 324 - 529



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-04B01

Area: PRESSURE 400

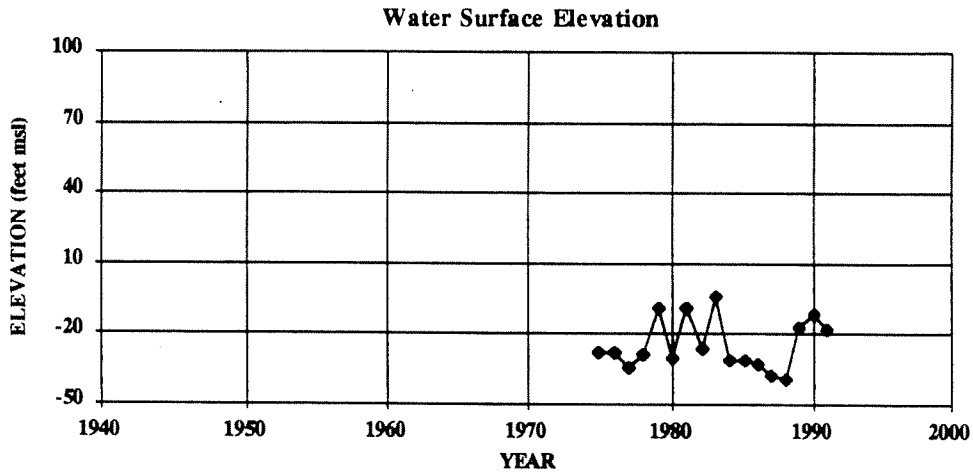
Use: IRRIGATION

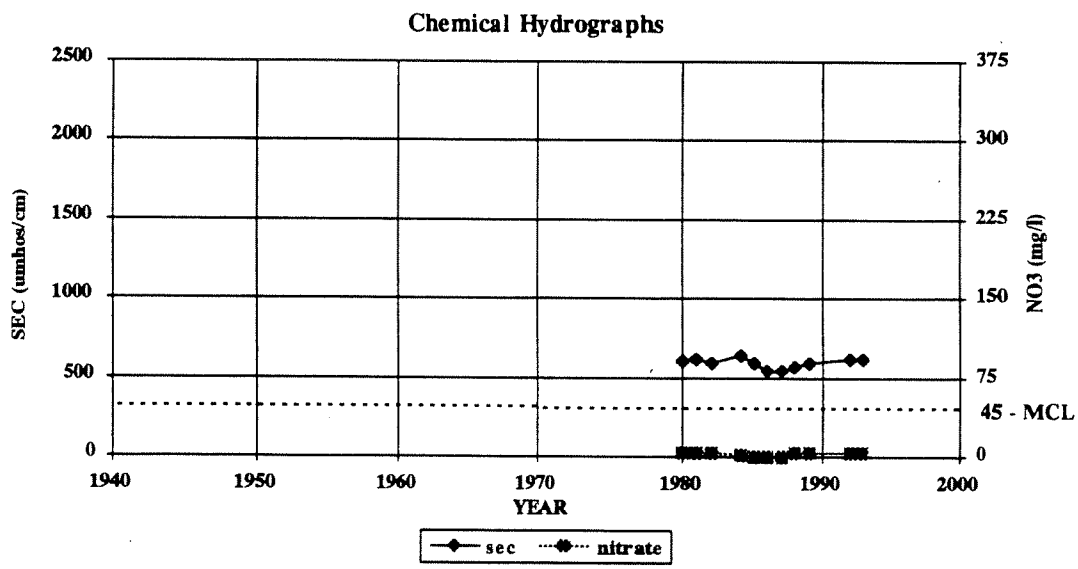
Ground Surface Elevation: 15.5

Perforation Rng Elevations -374.5 - -471.5

Depth: 500

Perforation Range: 390 - 487



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-31P01

Area: PRESSURE 400

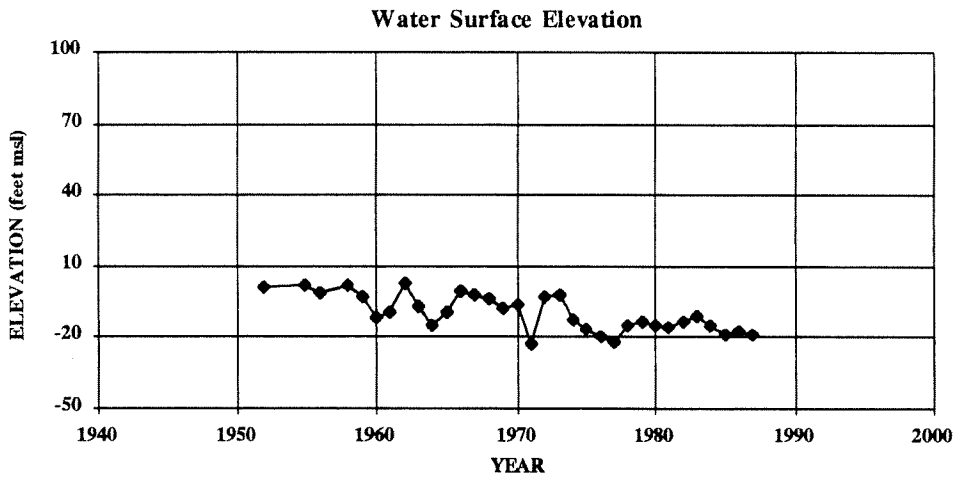
Use: IRRIGATION

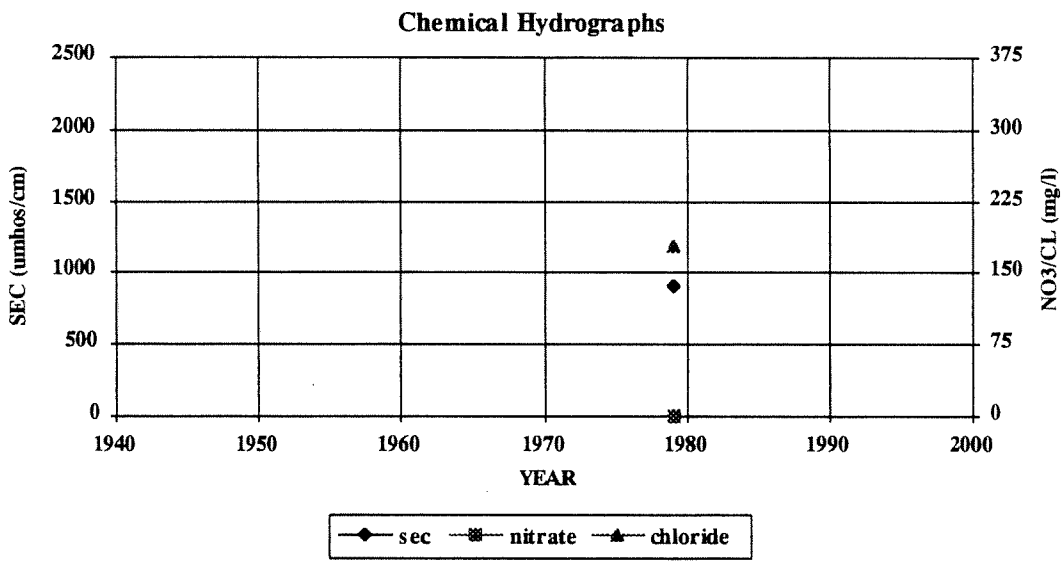
Ground Surface Elevation: 10

Perforation Rng Elevations -325 - -431

Depth: 441

Perforation Range: 335 - 441



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-31Q01

Area: PRESSURE 400

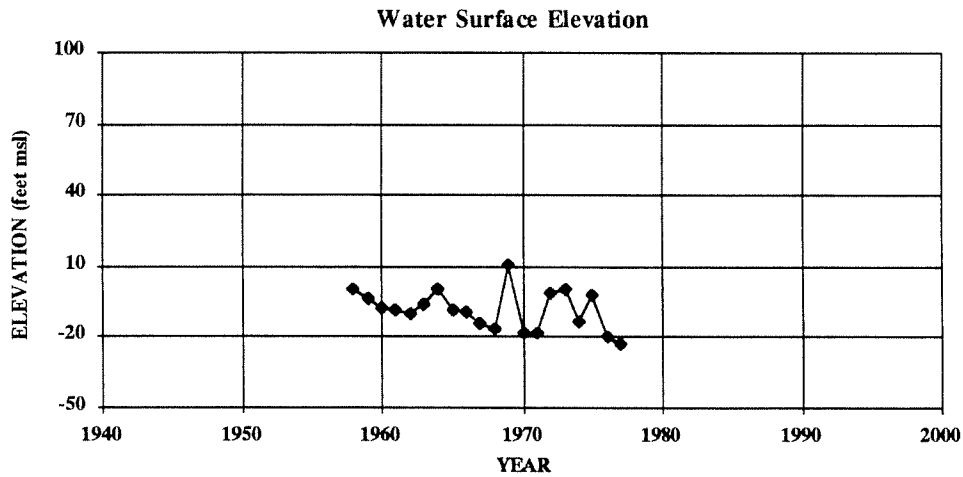
Use: IRRIGATION

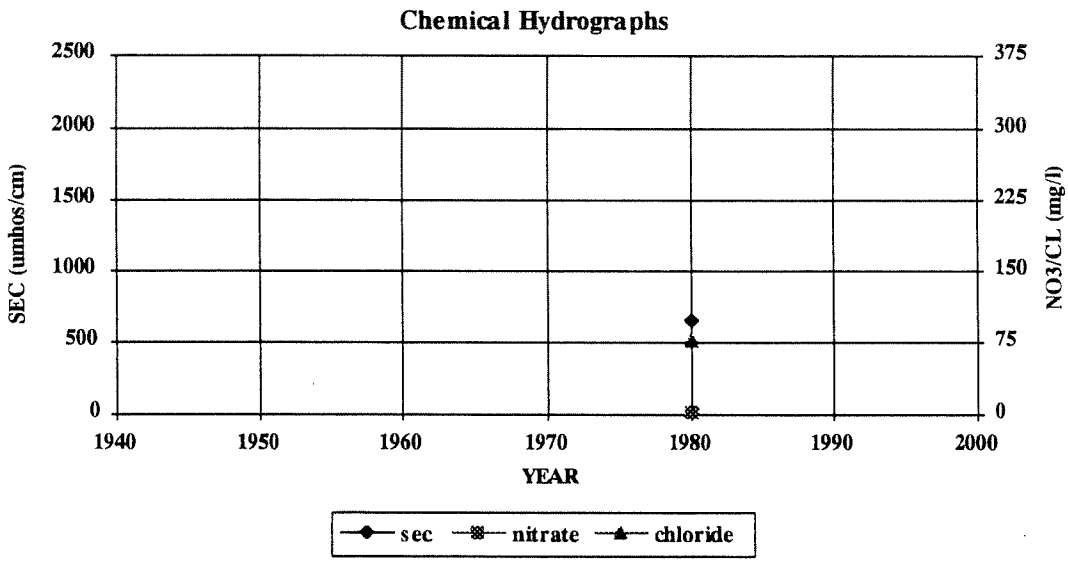
Ground Surface Elevation: 11.3

Perforation Rng Elevations #Error

Depth: 500

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-32A02

Area: PRESSURE 400

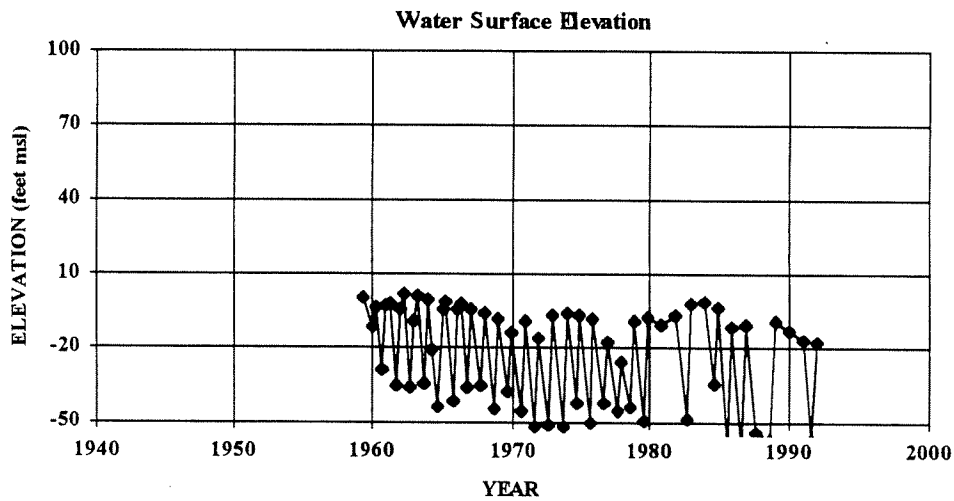
Use: IRRIGATION

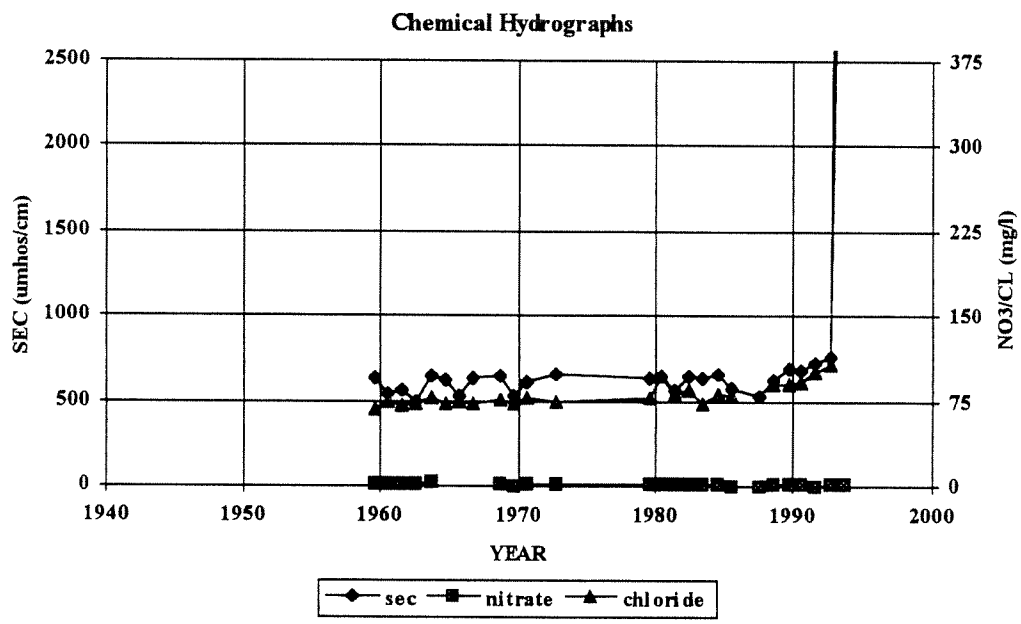
Ground Surface Elevation: 9.5

Perforation Rng Elevations: - No Data

Depth: 600

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-32C01

Area: PRESSURE 400

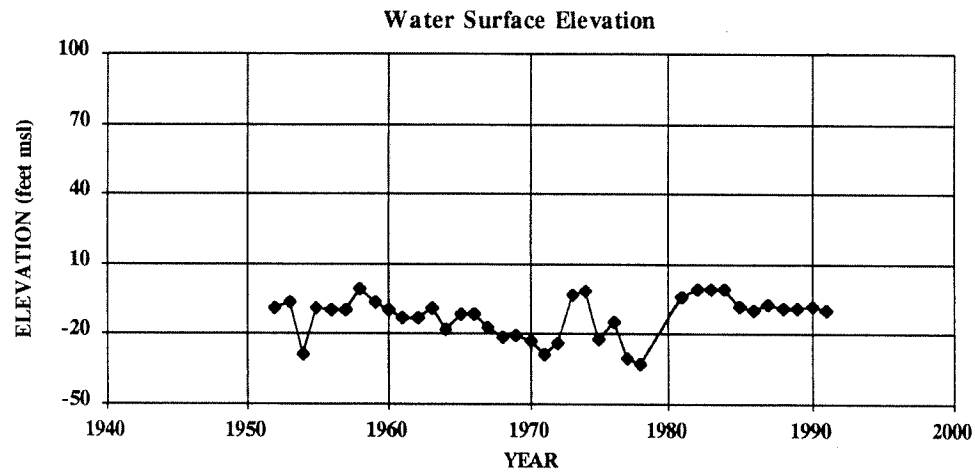
Use: Unclassified

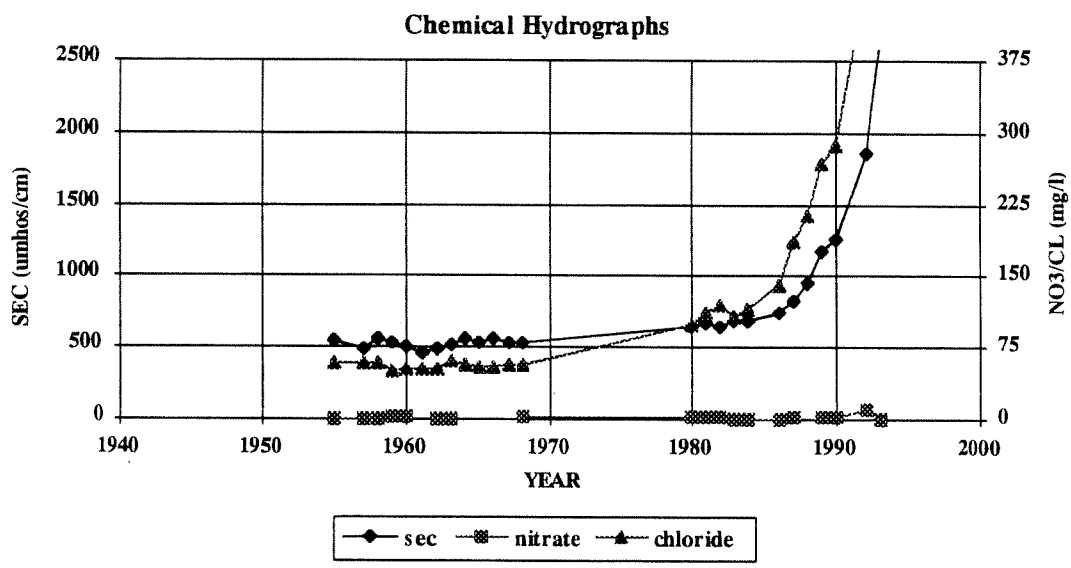
Ground Surface Elevation: 8.8

Perforation Rng Elevations -313.2 - -513.2

Depth: 562

Perforation Range: 322 - 522



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-32J03

Area: PRESSURE 400

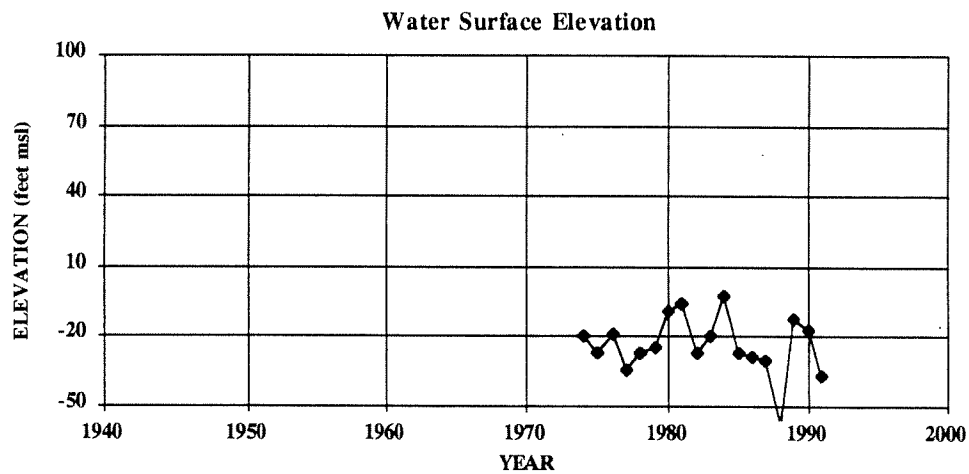
Use: IRRIGATION

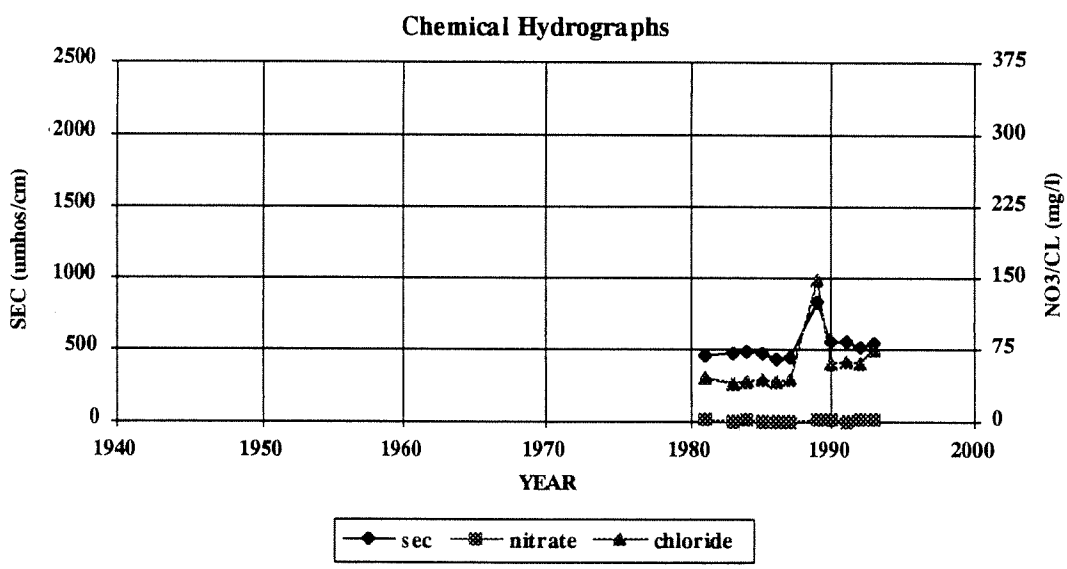
Ground Surface Elevation: 12

Perforation Rng Elevations -312 - -564

Depth: 576

Perforation Range: 324 - 576



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-32E03

Area: PRESSURE 400

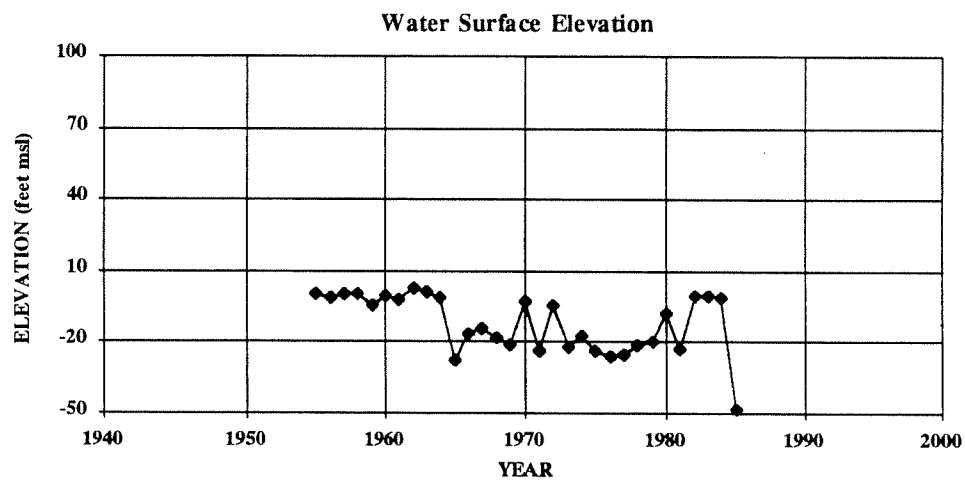
Use: IRRIGATION

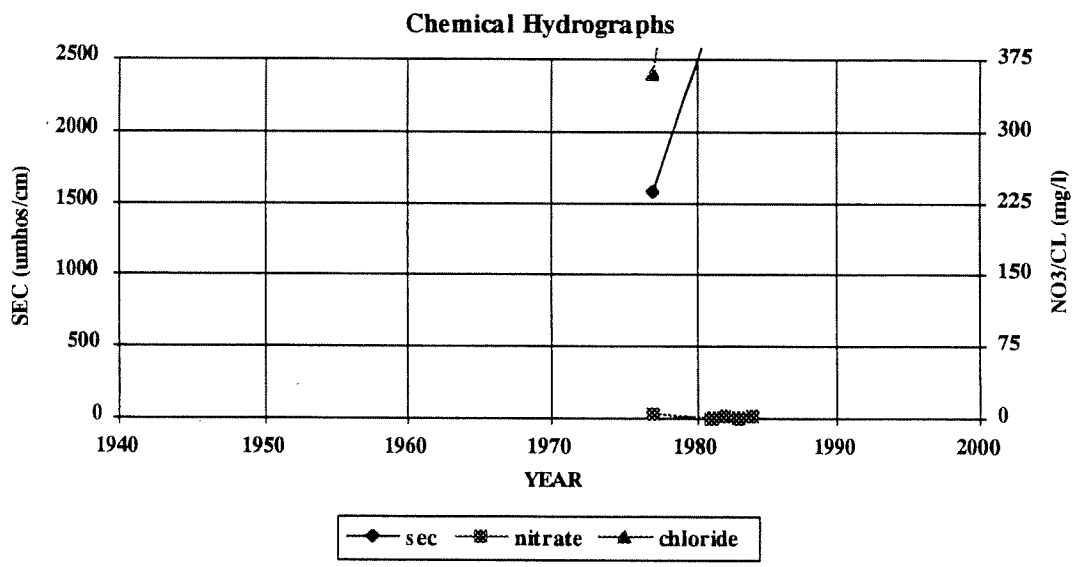
Ground Surface Elevation: 11

Perforation Rng Elevations -407 - -622

Depth: 885

Perforation Range: 418 - 633



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-03M02

Area: PRESSURE 400

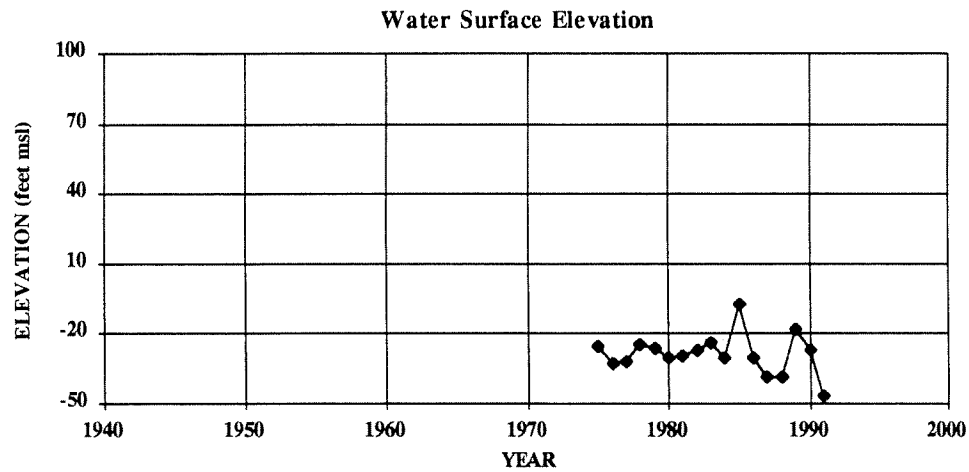
Use: IRRIGATION

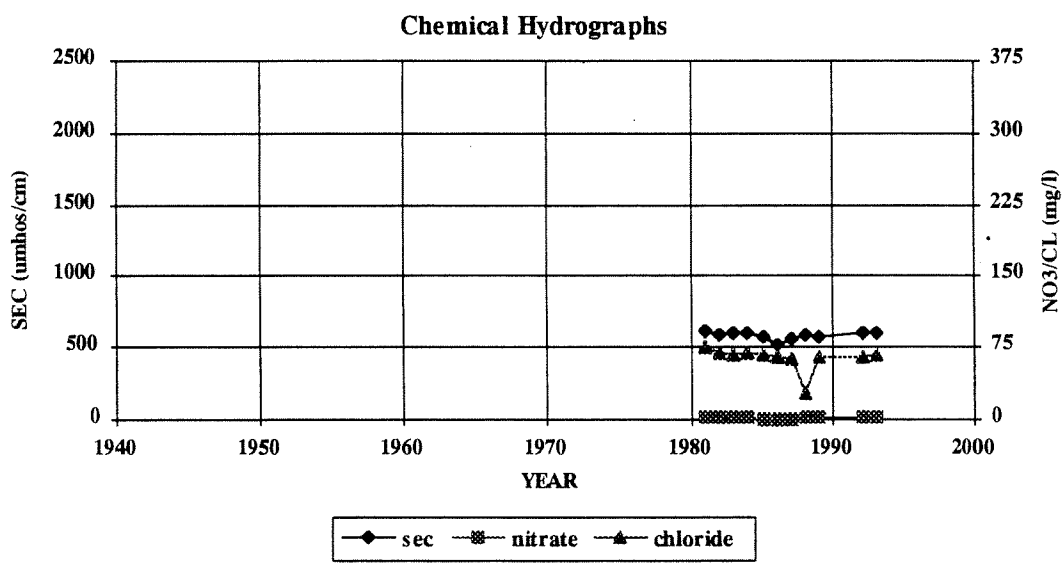
Ground Surface Elevation: 17.8

Perforation Rng Elevations -382.2 - -552.2

Depth: 587

Perforation Range: 400 - 570



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-03K02

Area: PRESSURE 400

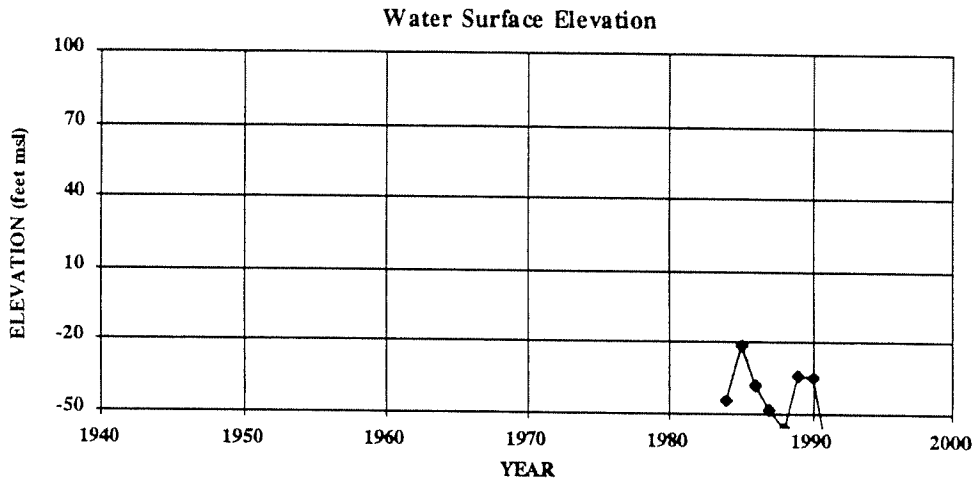
Use: IRRIGATION

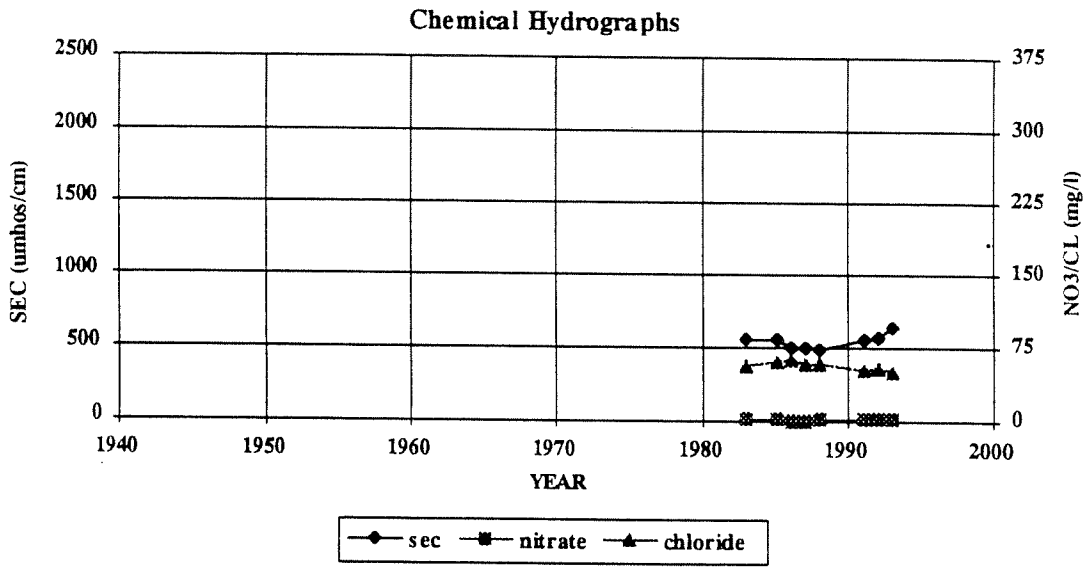
Ground Surface Elevation: 22.1

Perforation Rng Elevations -313.9 - -536.9

Depth: 600

Perforation Range: 336 - 559



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-04B01

Area: PRESSURE 400

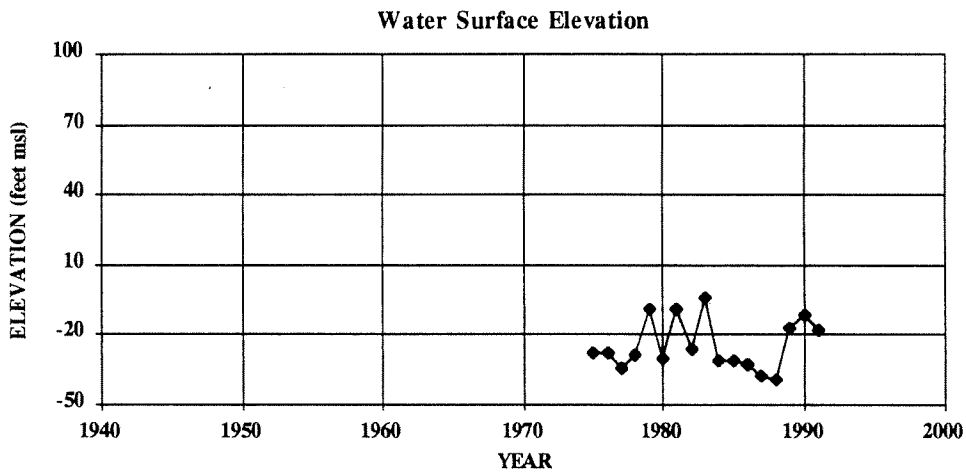
Use: IRRIGATION

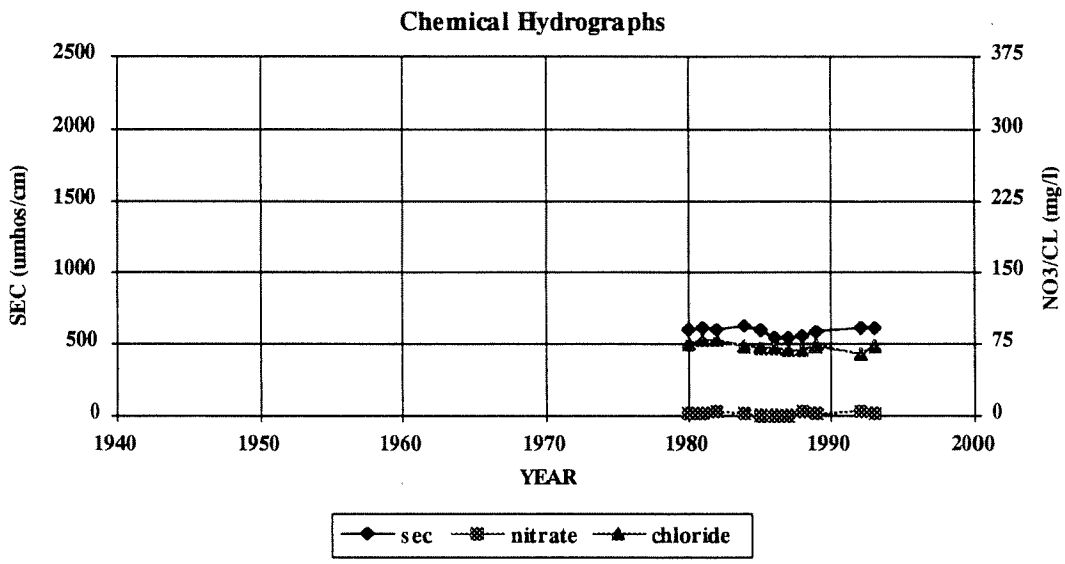
Ground Surface Elevation: 15.5

Perforation Rng Elevations -374.5 - -471.5

Depth: 500

Perforation Range: 390 - 487



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-04H01

Area: PRESSURE 400

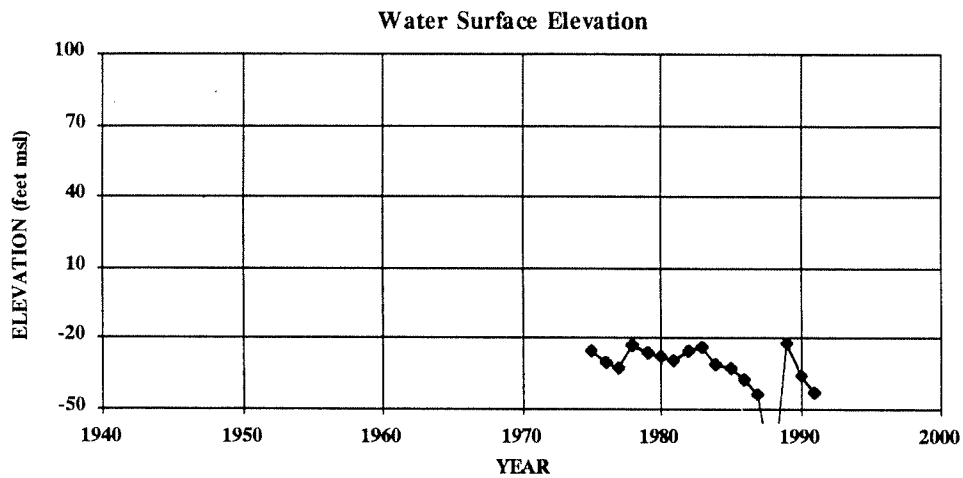
Use: IRRIGATION

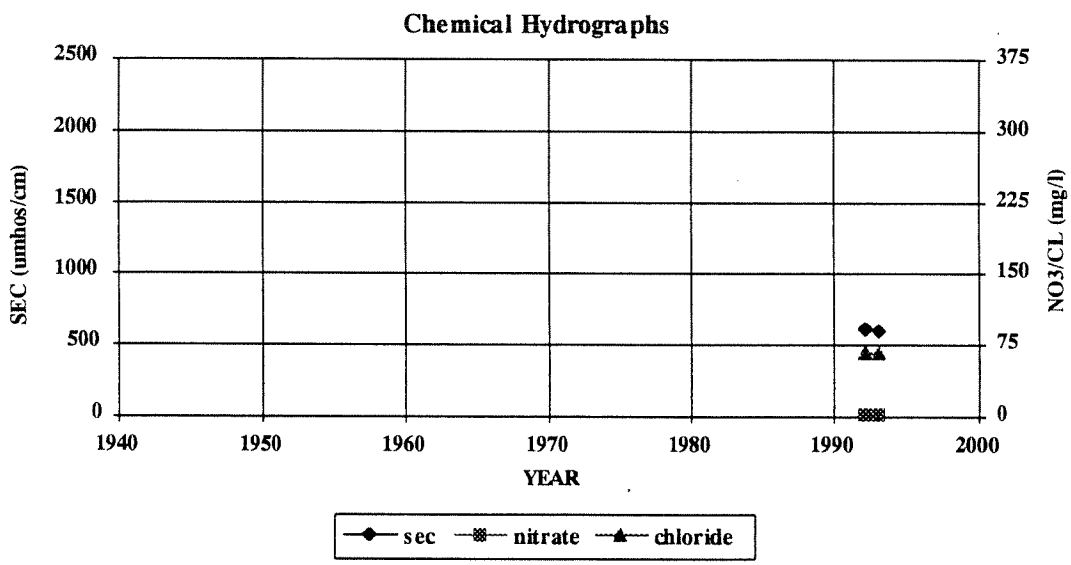
Ground Surface Elevation: 16.7

Perforation Rng Elevations -401.3 - -470.3

Depth: 512

Perforation Range: 418 - 487



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-05C02

Area: PRESSURE 400

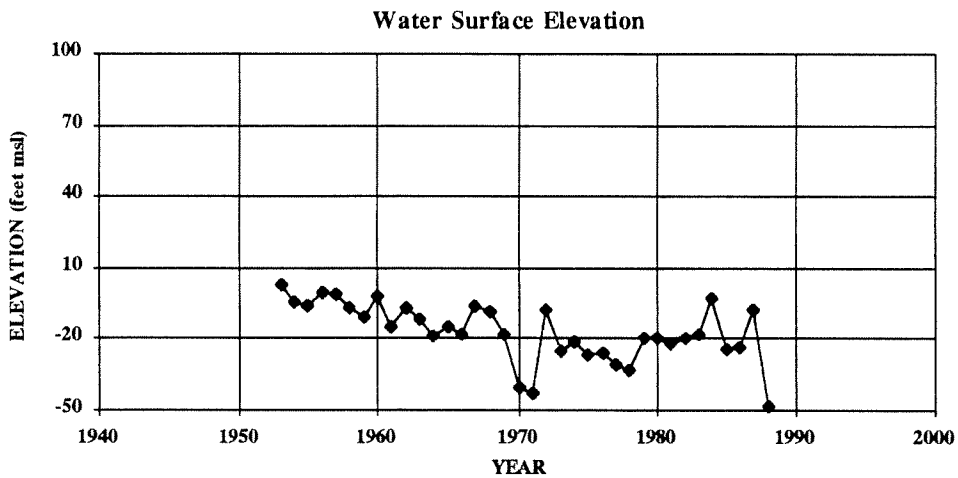
Use: IRRIGATION

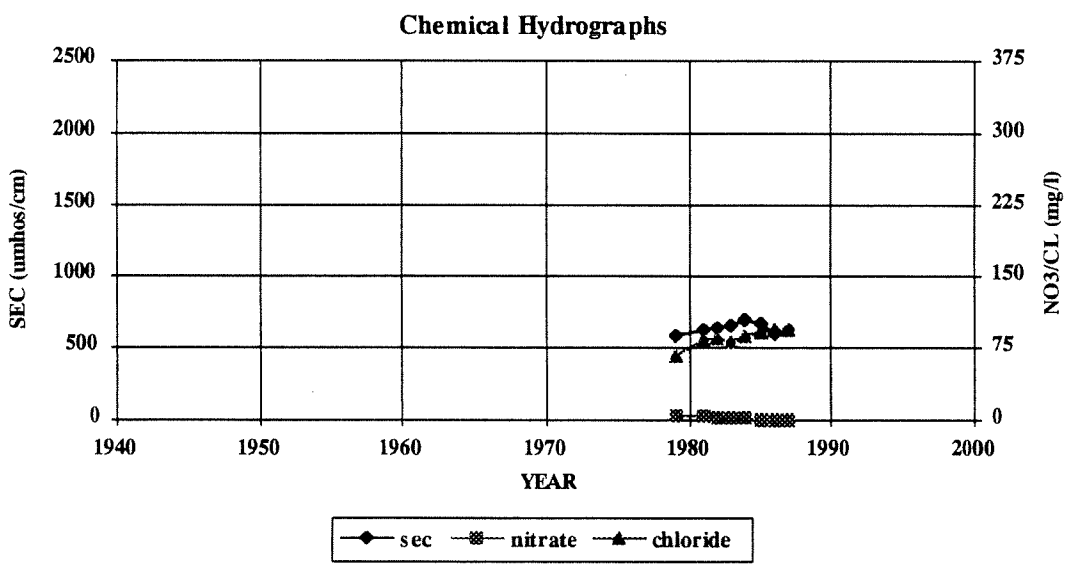
Ground Surface Elevation: 13.5

Perforation Rng Elevations -432.5 - -508.5

Depth: 576

Perforation Range: 446 - 522



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-05F04

Area: PRESSURE 400

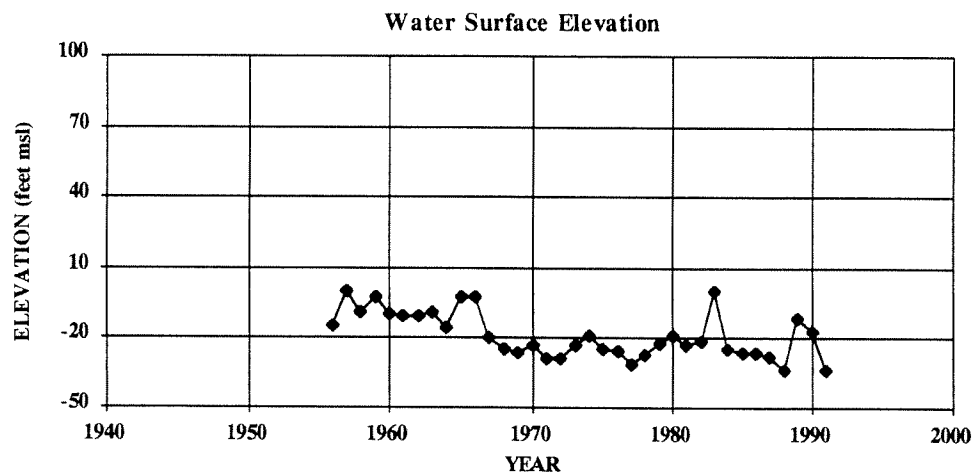
Use: IRRIGATION

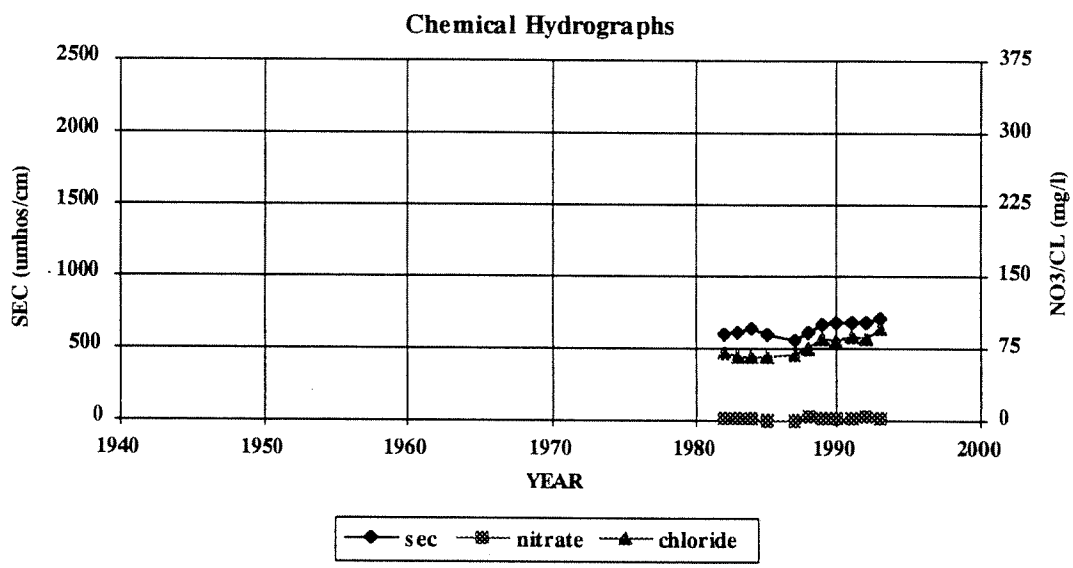
Ground Surface Elevation: 12.9

Perforation Rng Elevations -393.1 - -521.1

Depth: 582

Perforation Range: 406 - 534



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-05K01

Area: PRESSURE 400

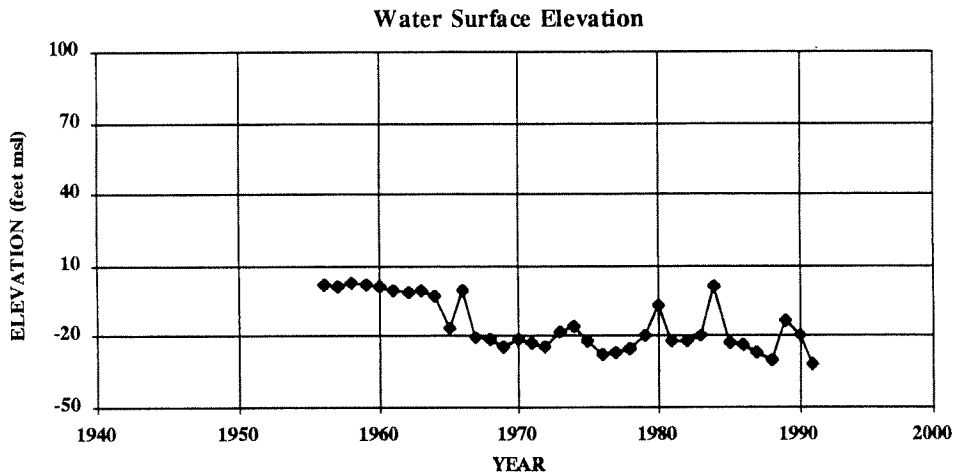
Use: IRRIGATION

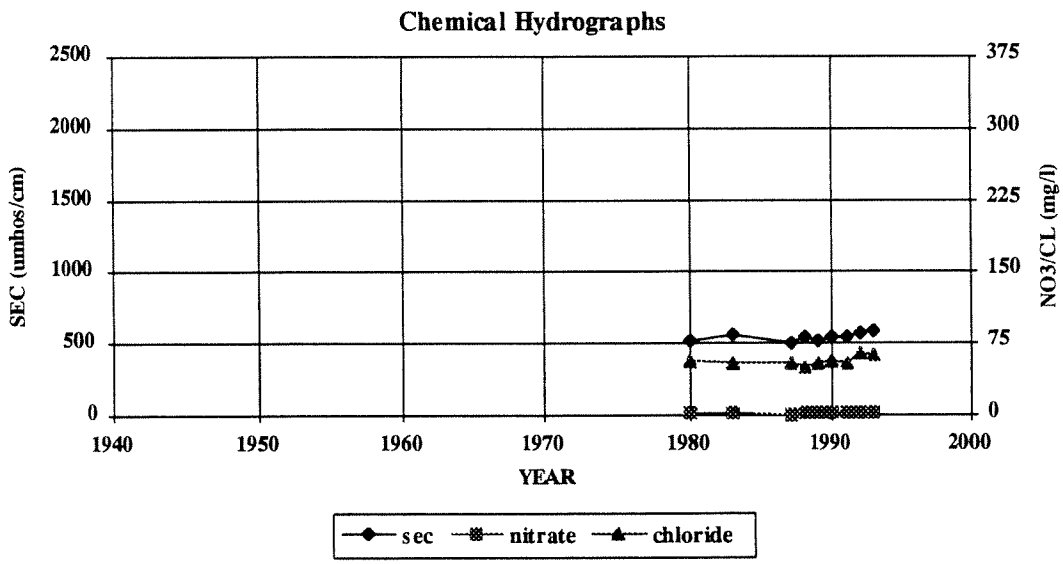
Ground Surface Elevation: 15.8

Perforation Rng Elevations -426.2 - -457.2

Depth: 510

Perforation Range: 442 - 473



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-05P02

Area: PRESSURE 400

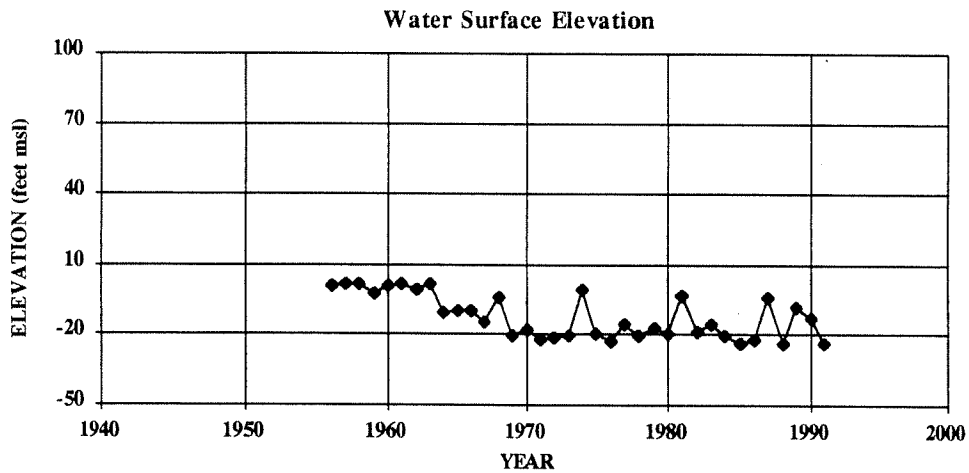
Use: IRRIGATION

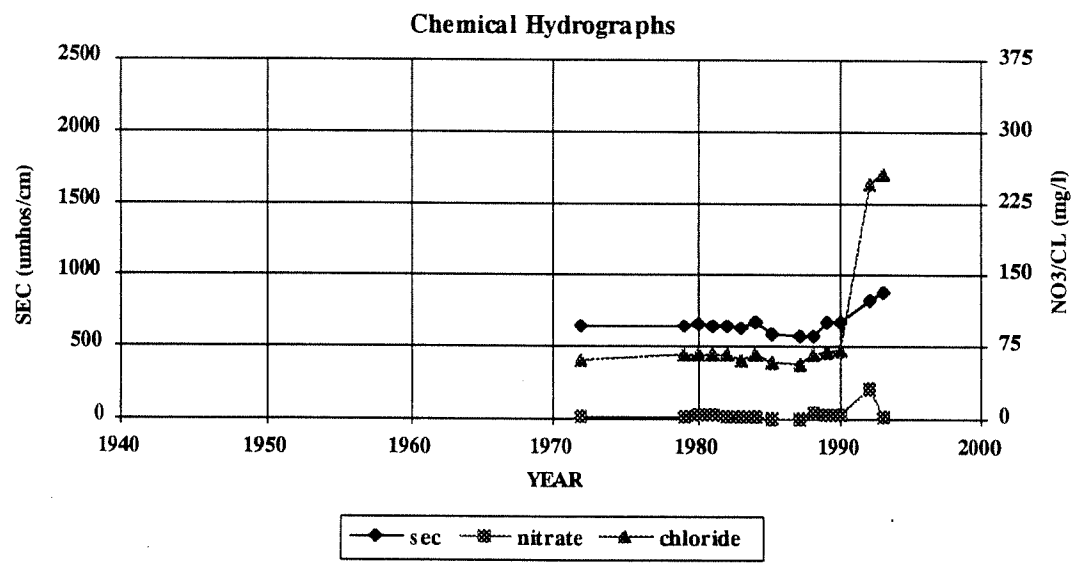
Ground Surface Elevation: 14.9

Perforation Rng Elevations -449.1 - -573.1

Depth: 606

Perforation Range: 464 - 588



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-06B01

Area: PRESSURE 400

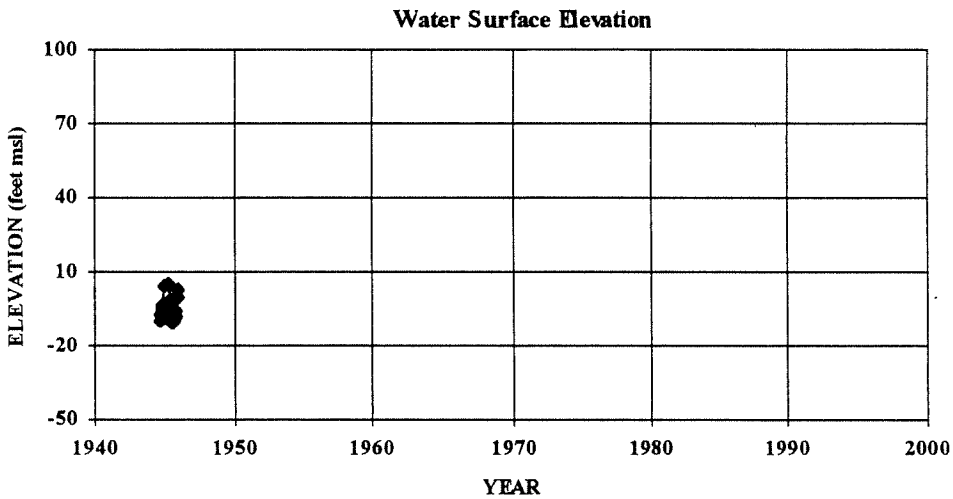
Use: IRRIGATION

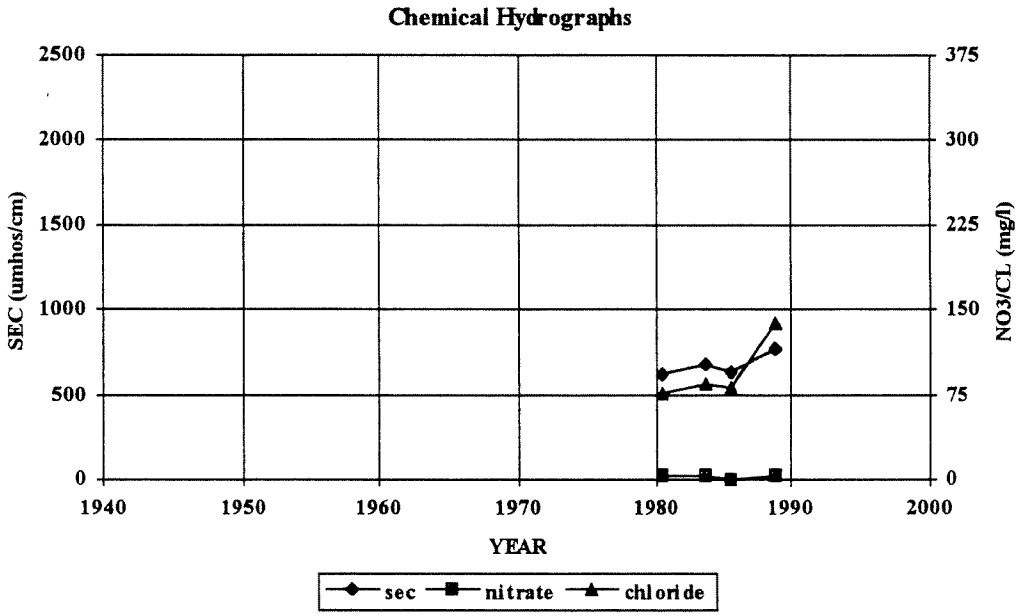
Ground Surface Elevation: No Data

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-06J03

Area: PRESSURE 400

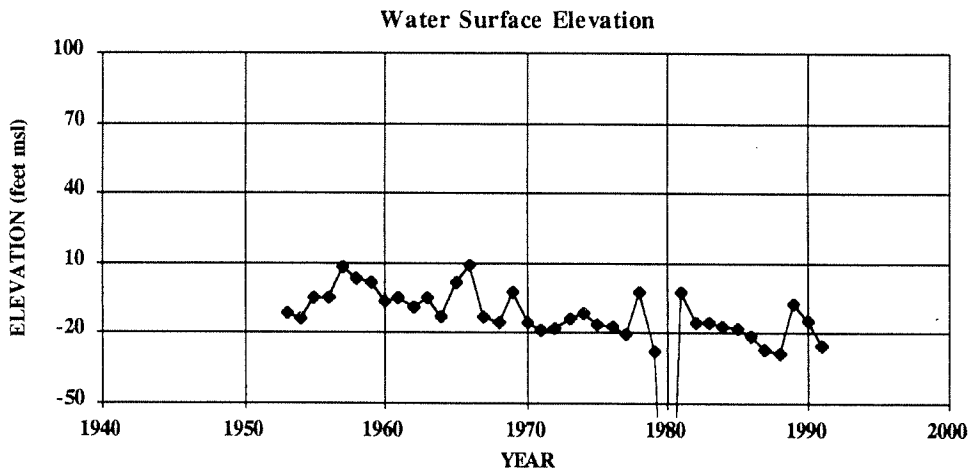
Use: IRRIGATION

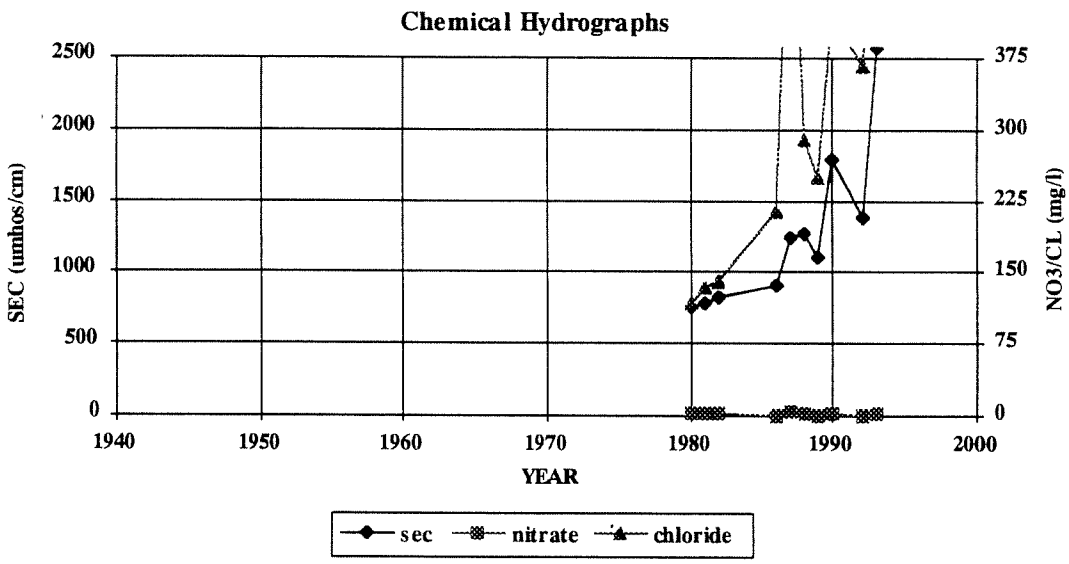
Ground Surface Elevation: 13

Perforation Rng Elevations -362 - -537

Depth: 550

Perforation Range: 375 - 550



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-06J03

Area: PRESSURE 400

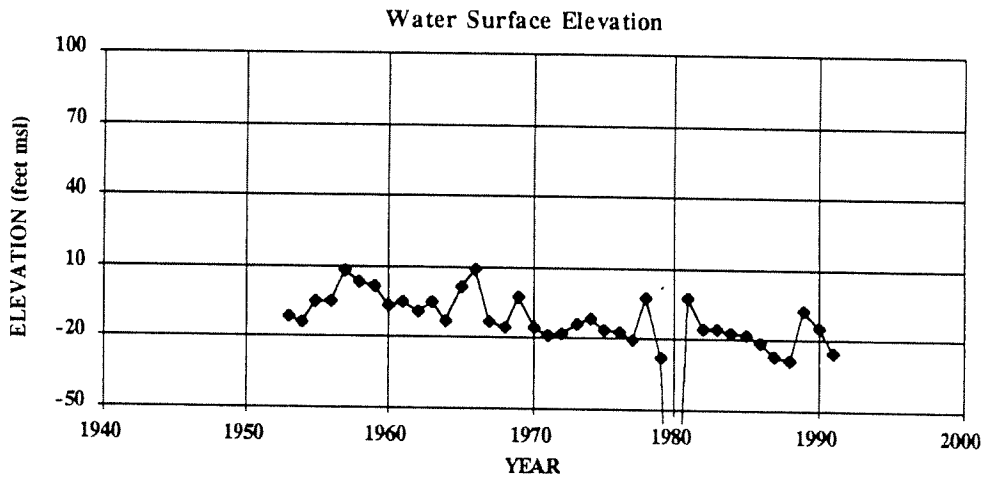
Use: IRRIGATION

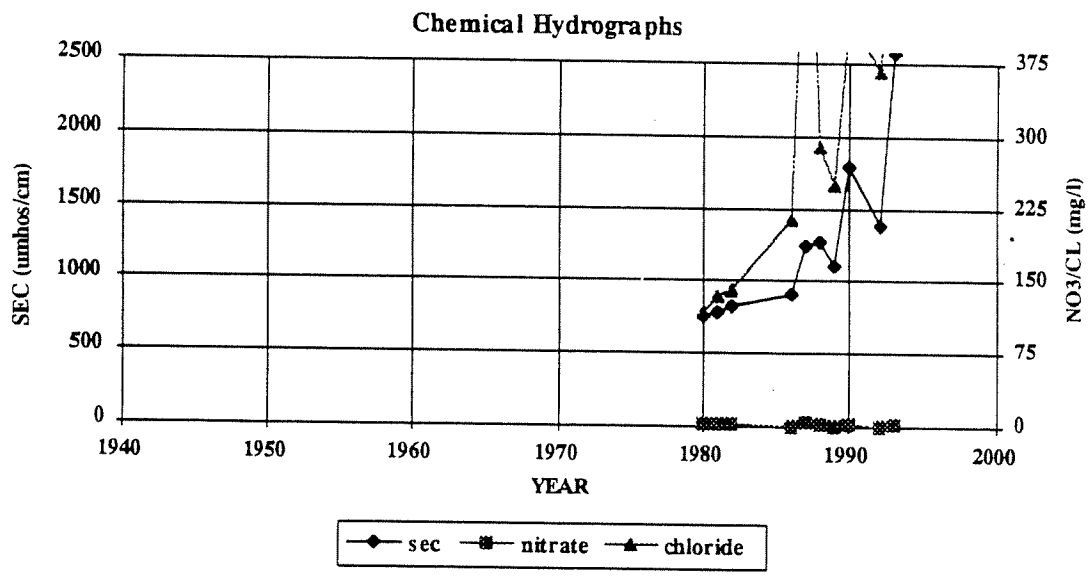
Ground Surface Elevation: 13

Perforation Rng Elevations -362 - -537

Depth: 550

Perforation Range: 375 - 550



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-06Q01

Area: PRESSURE 400

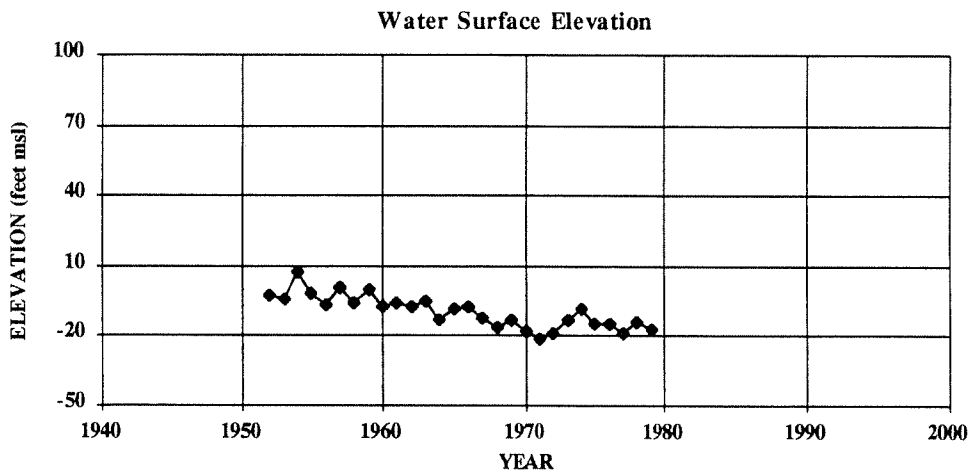
Use: Unclassified

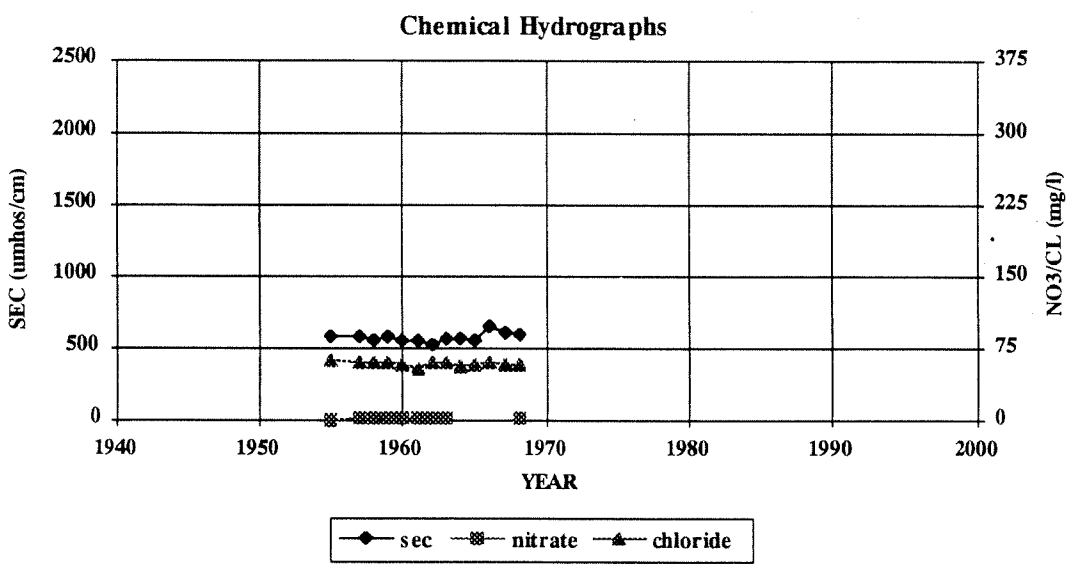
Ground Surface Elevation: 13

Perforation Rng Elevations -337 - -538

Depth: 553

Perforation Range: 350 - 551



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-19Q03

Area: PRESSURE DEEP ZONE

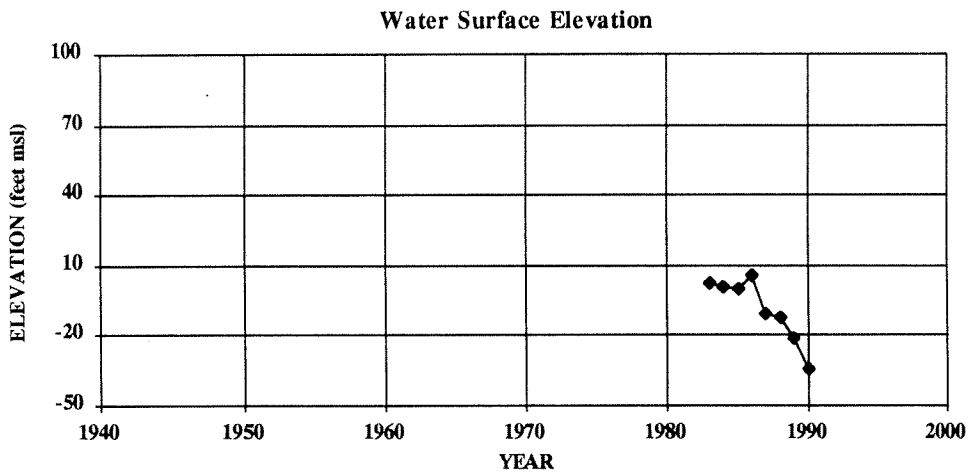
Use: IRRIGATION

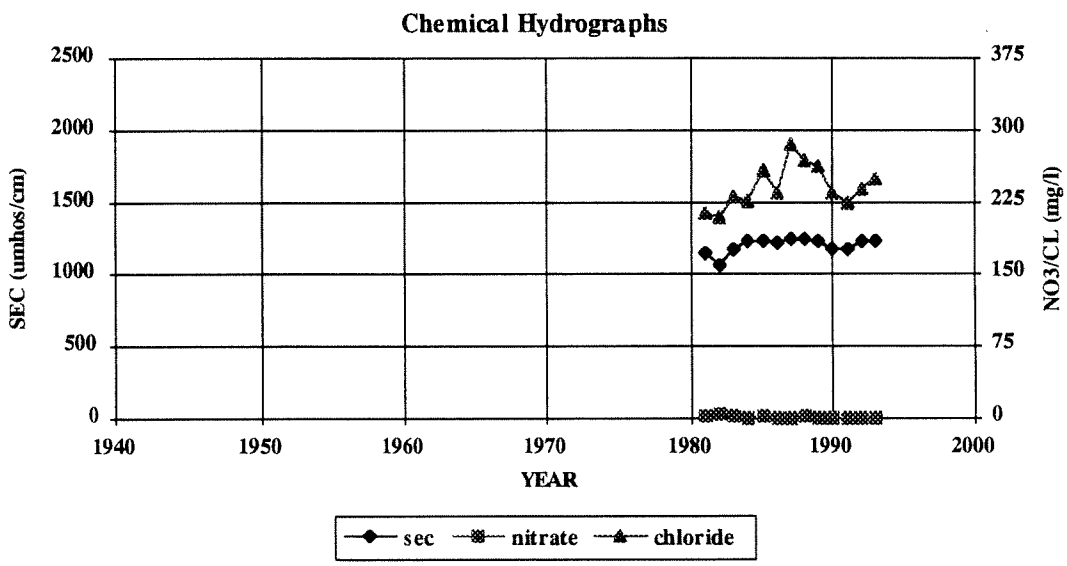
Ground Surface Elevation: 12.3

Perforation Rng Elevations -1207.7 - -1537.

Depth: 1610

Perforation Range: 1220 - 1550



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/02E-06L01

Area: PRESSURE DEEP ZONE

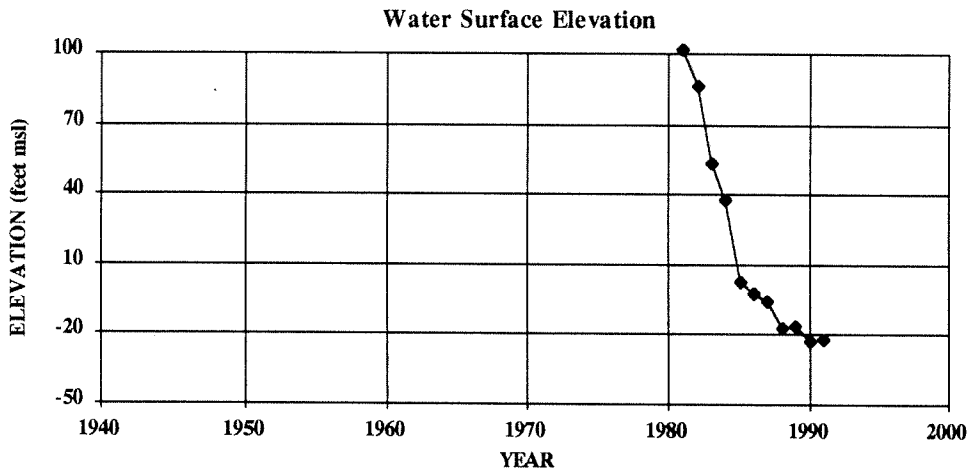
Use: IRRIGATION

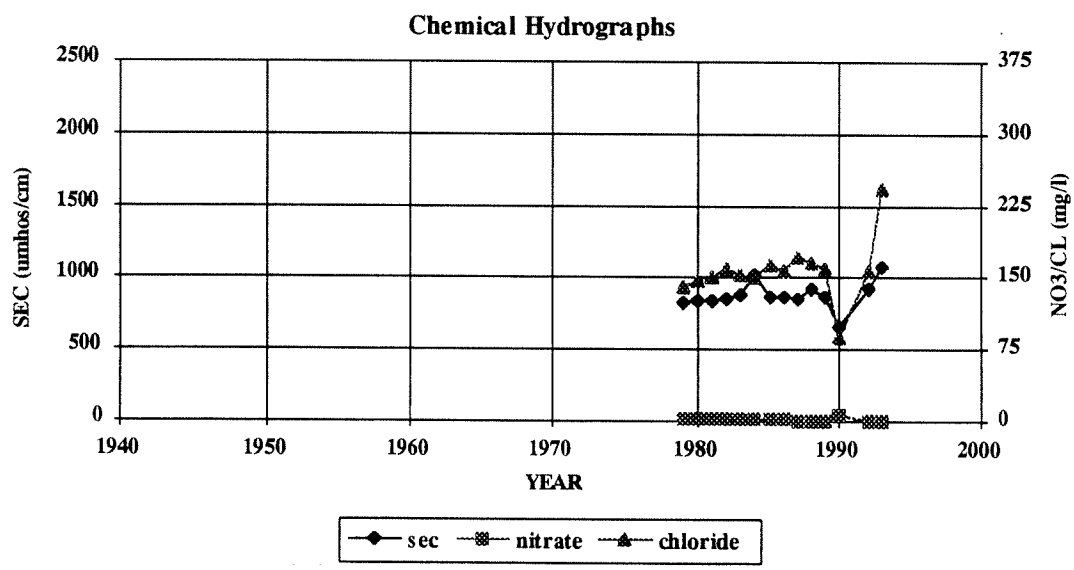
Ground Surface Elevation: 10

Perforation Rng Elevations -850 - -1530

Depth: 1560

Perforation Range: 860 - 1540



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-16D01

Area: MORO COJO

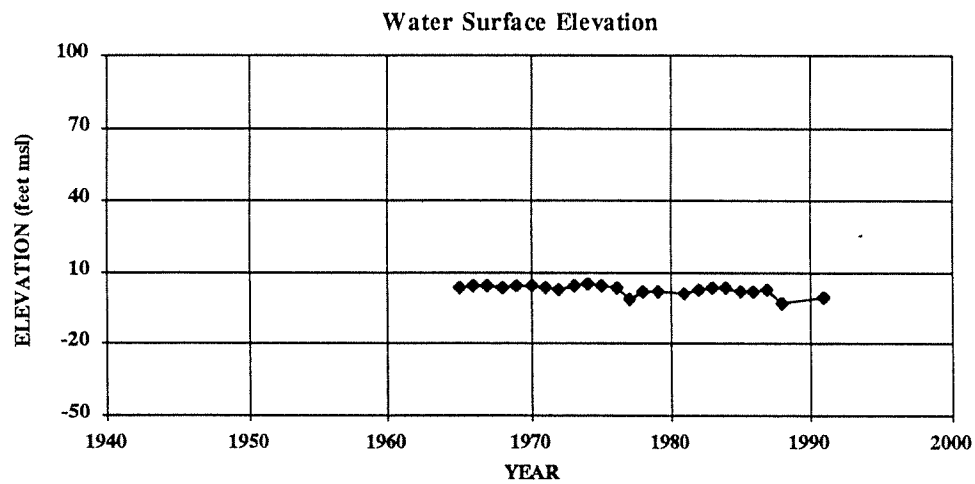
Use: IRRIGATION

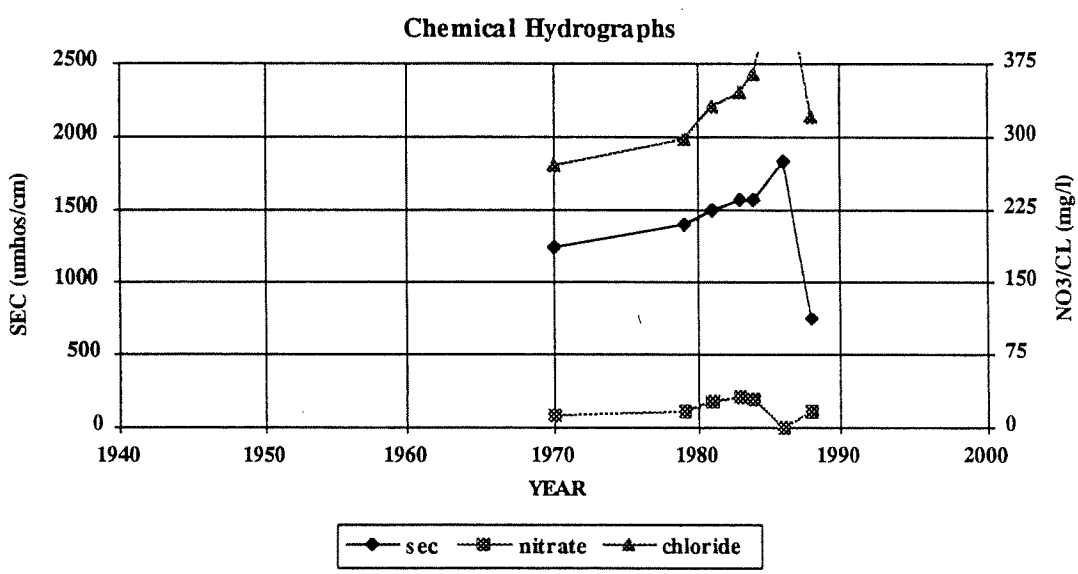
Ground Surface Elevation: 27

Perforation Rng Elevations -97 - -193

Depth: 220

Perforation Range: 124 - 220



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-16E01

Area: MORO COJO

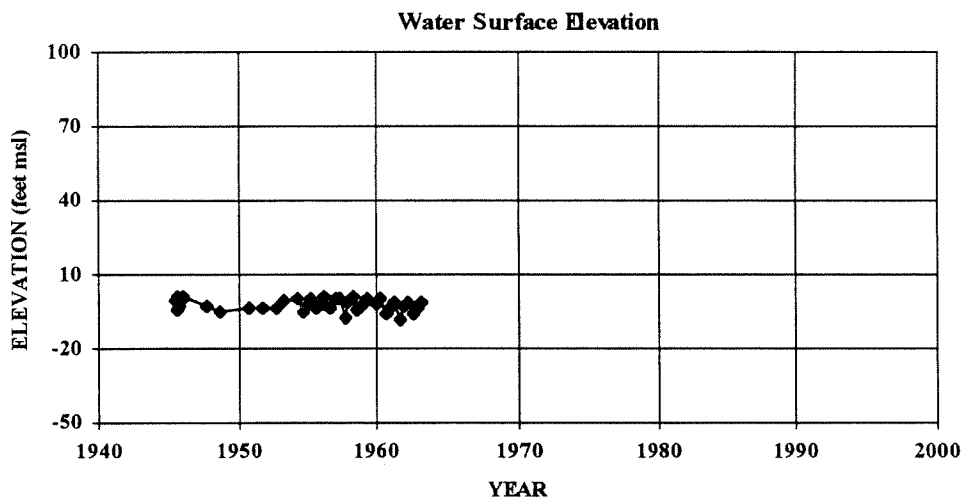
Use: IRRIGATION

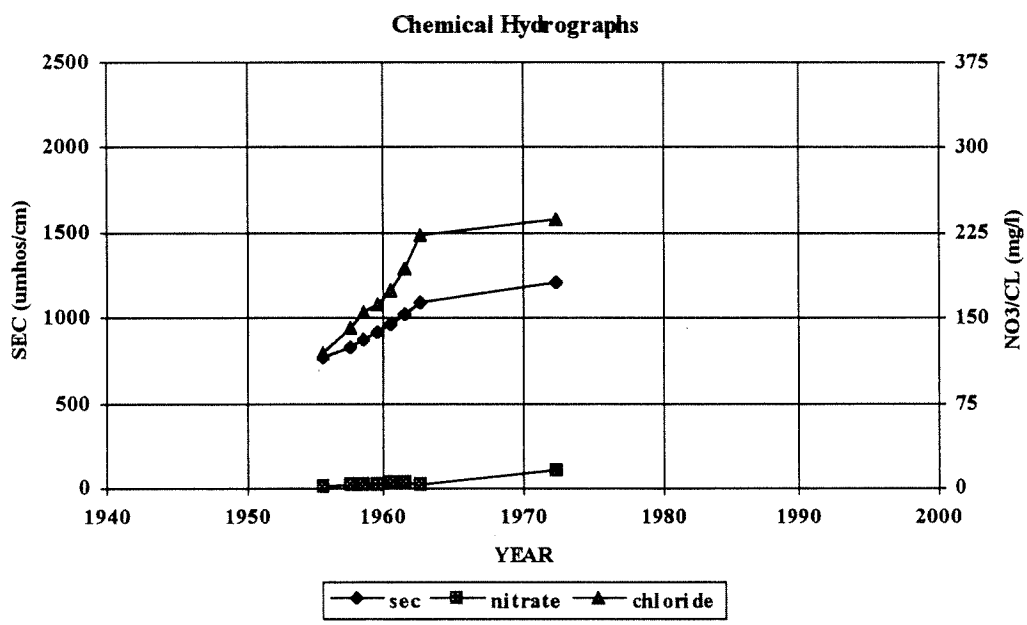
Ground Surface Elevation: 20

Perforation Rng Elevations: - No Data

Depth: 174

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-17H03

Area: MORO COJO

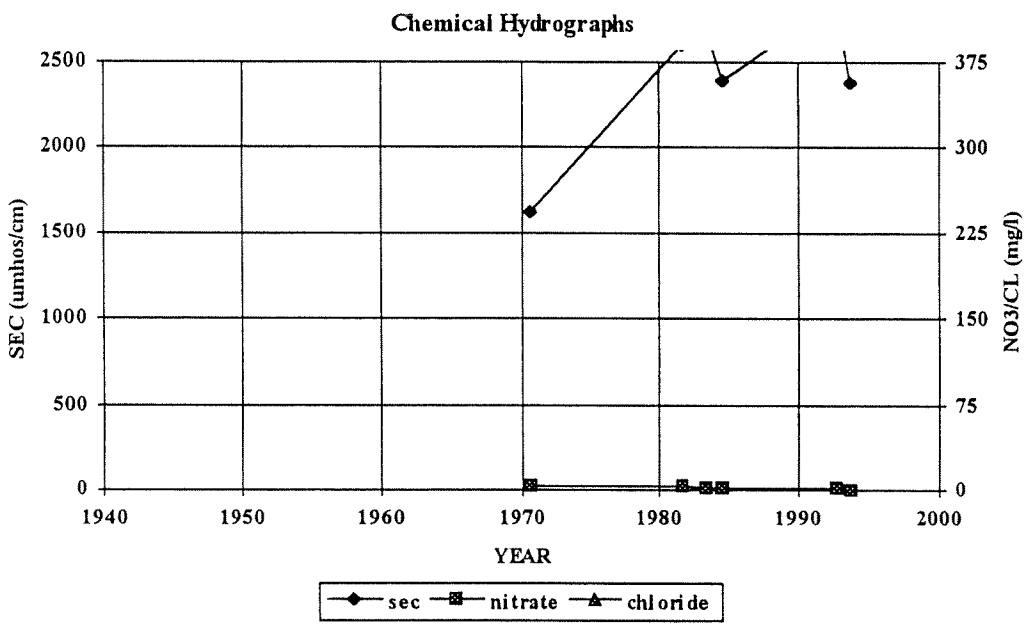
Use: IRRIGATION

Ground Surface Elevation: No Data

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-17R01

Area: MORO COJO

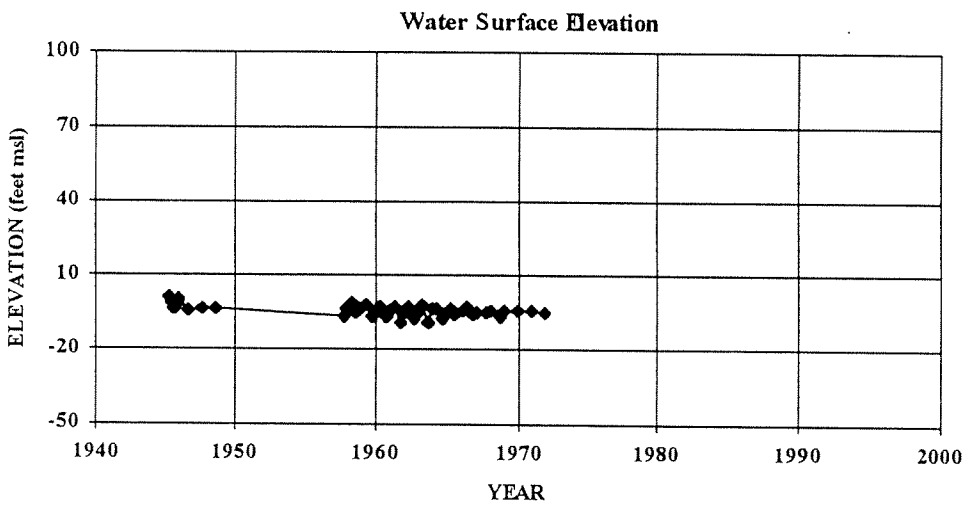
Use: IRRIGATION

Ground Surface Elevation: 16

Perforation Rng Elevations: - No Data

Depth: No Data

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/02E-36J01

Area: EAST SIDE

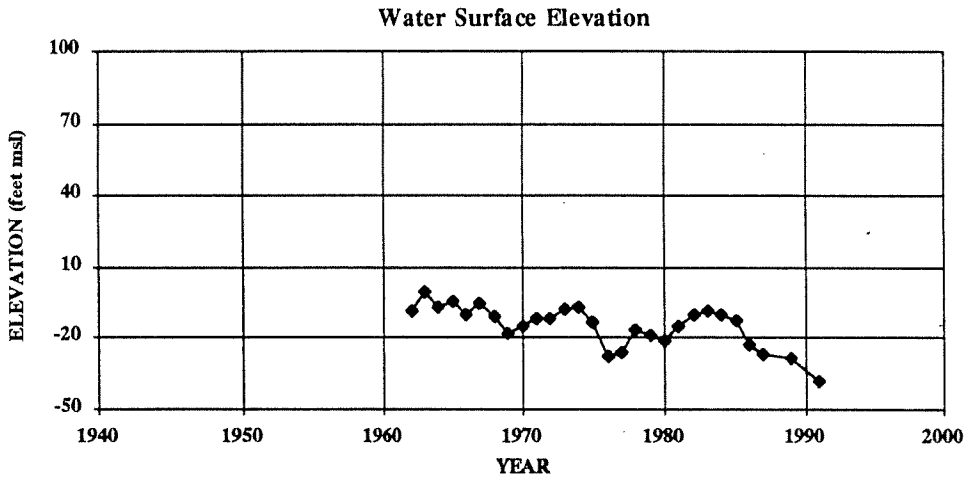
Use: IRRIGATION

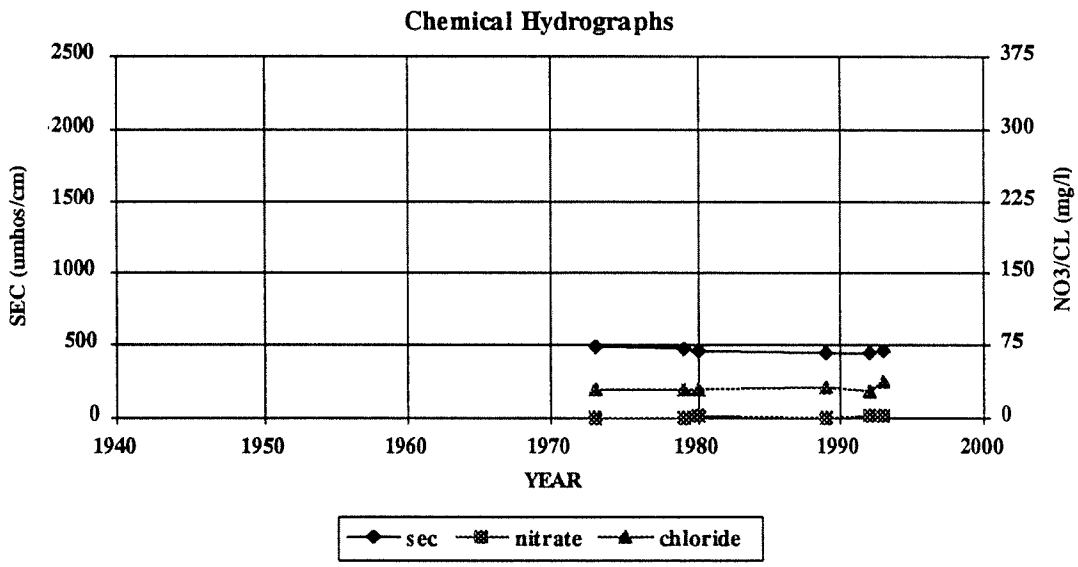
Ground Surface Elevation: 15

Perforation Rng Elevations -192 - -518

Depth: 580

Perforation Range: 207 - 533



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 13S/03E-35N01

Area: EAST SIDE

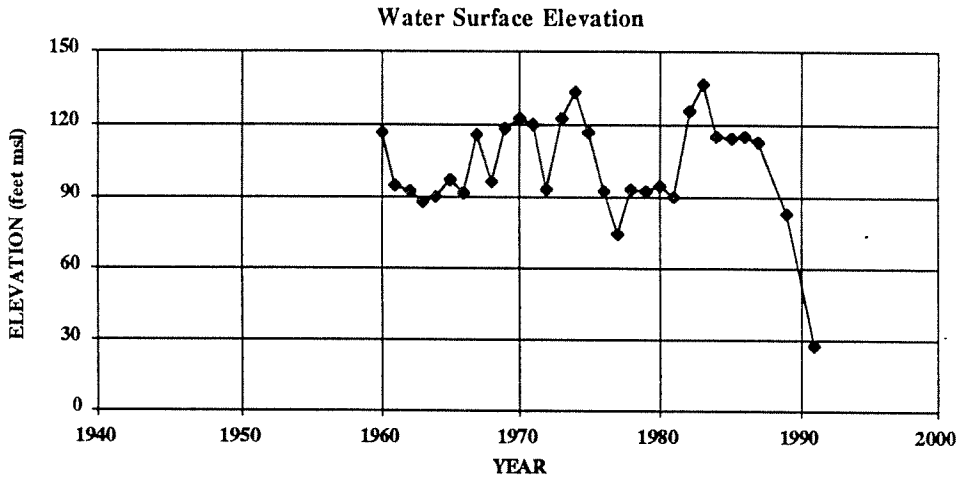
Use: IRRIGATION

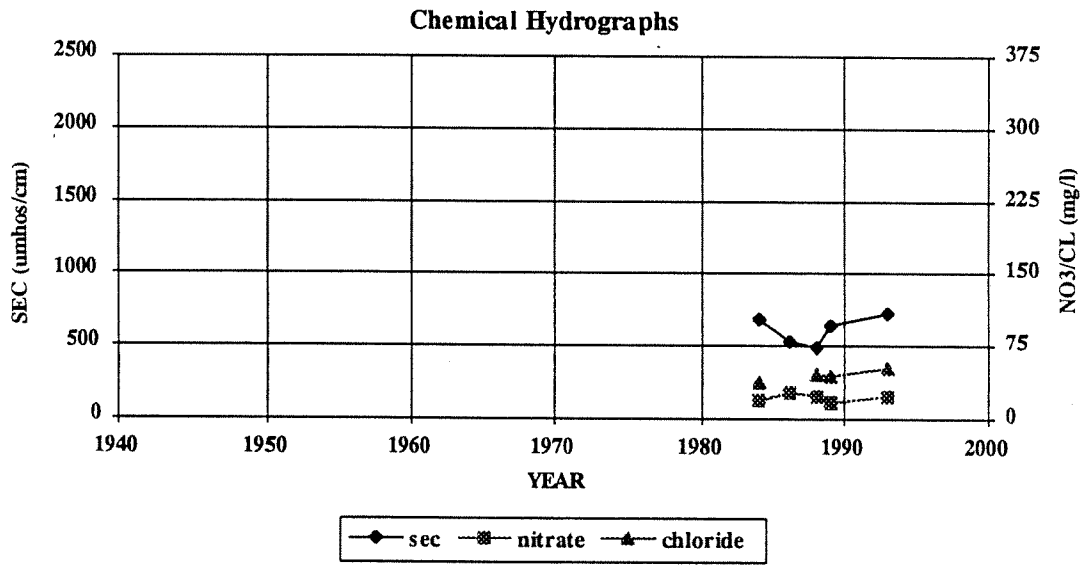
Ground Surface Elevation: 192

Perforation Rng Elevations -17 - -513

Depth: 800

Perforation Range: 209 - 705



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/03E-02E03

Area: EAST SIDE

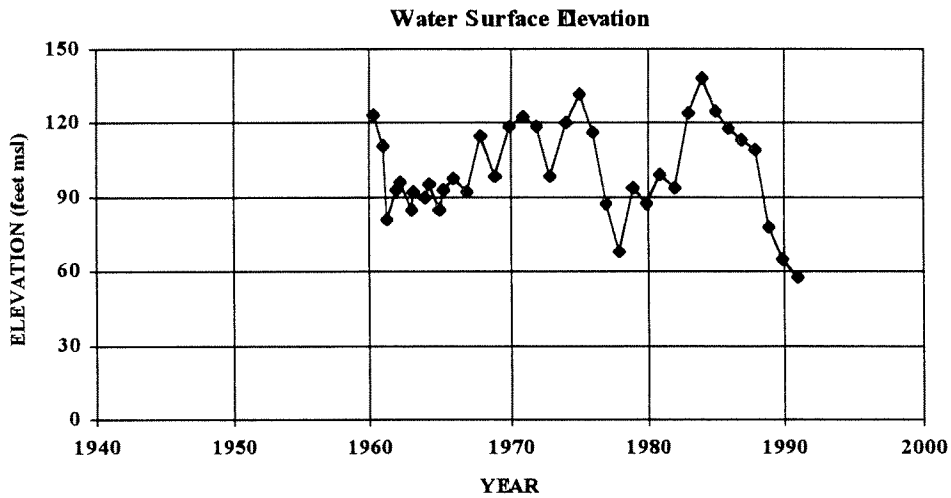
Use: IRRIGATION

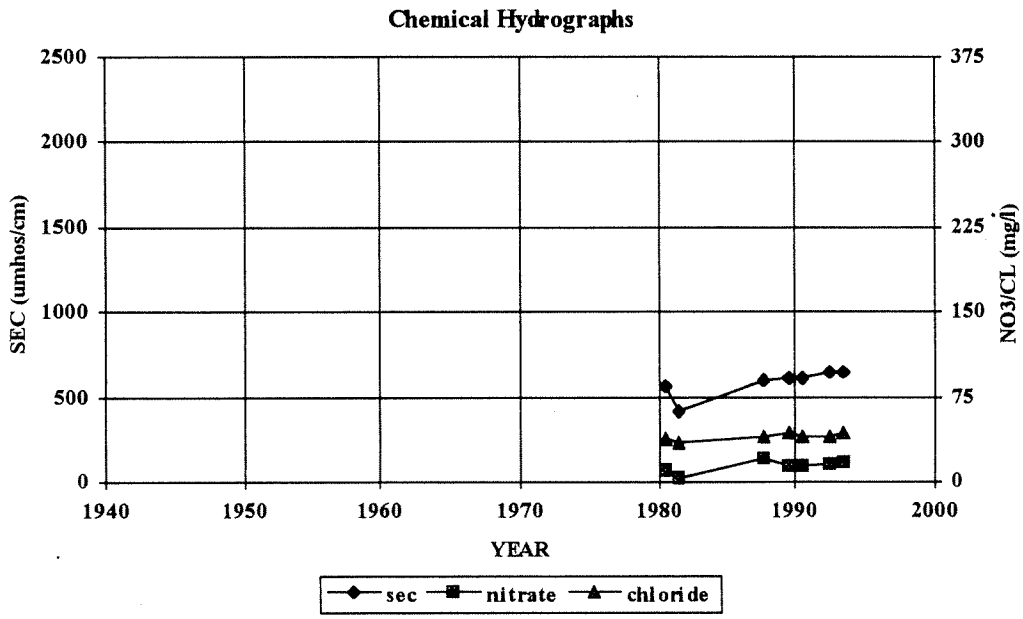
Ground Surface Elevation: 181

Perforation Rng Elevations: - No Data

Depth: 534

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/03E-03K01

Area: EAST SIDE

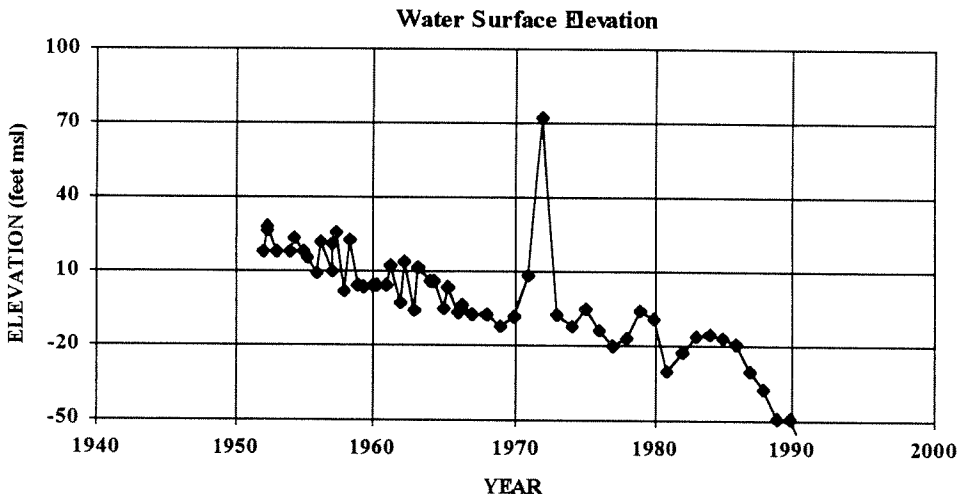
Use: IRRIGATION

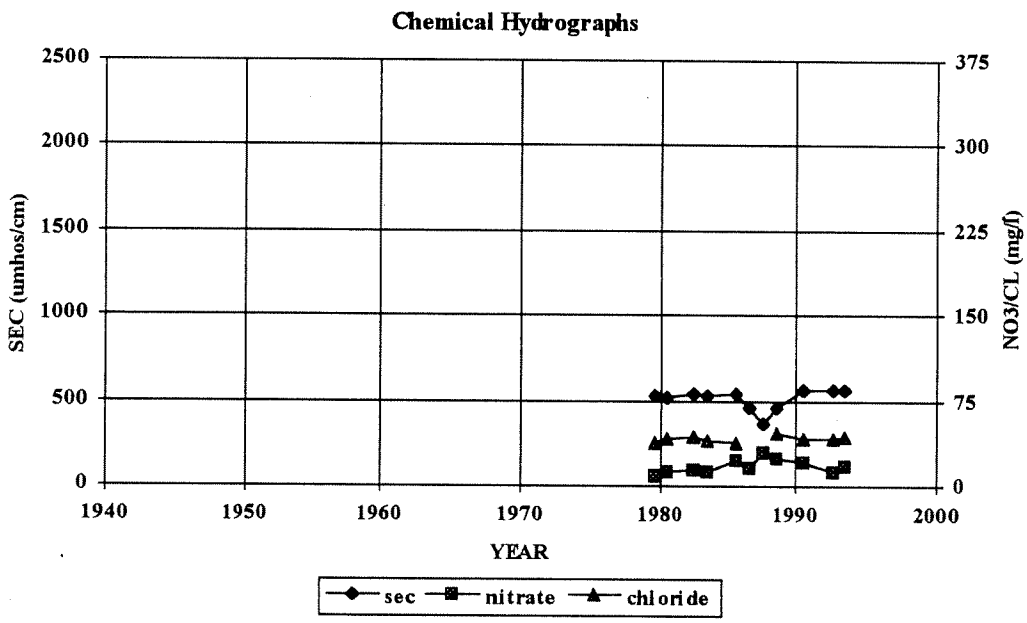
Ground Surface Elevation: 168.8

Perforation Rng Elevations: - No Data

Depth: 668

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/03E-04E01

Area: EAST SIDE

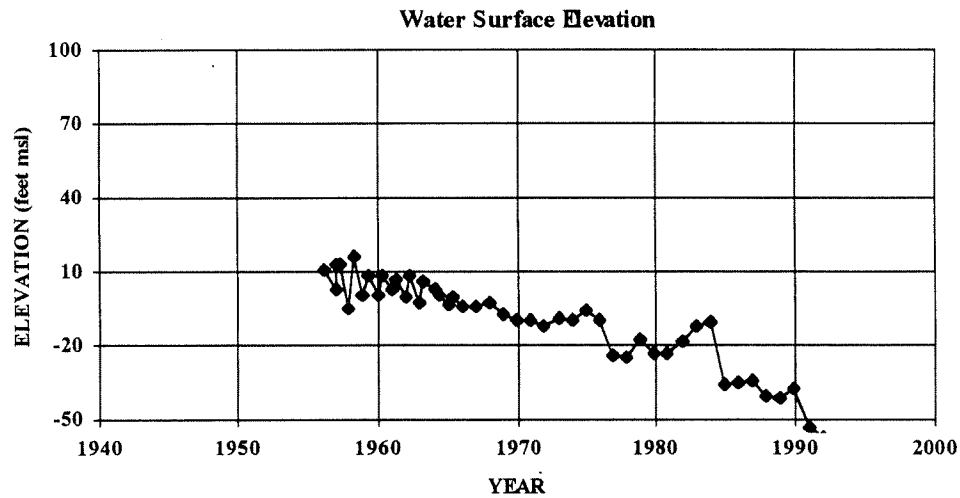
Use: IRRIGATION

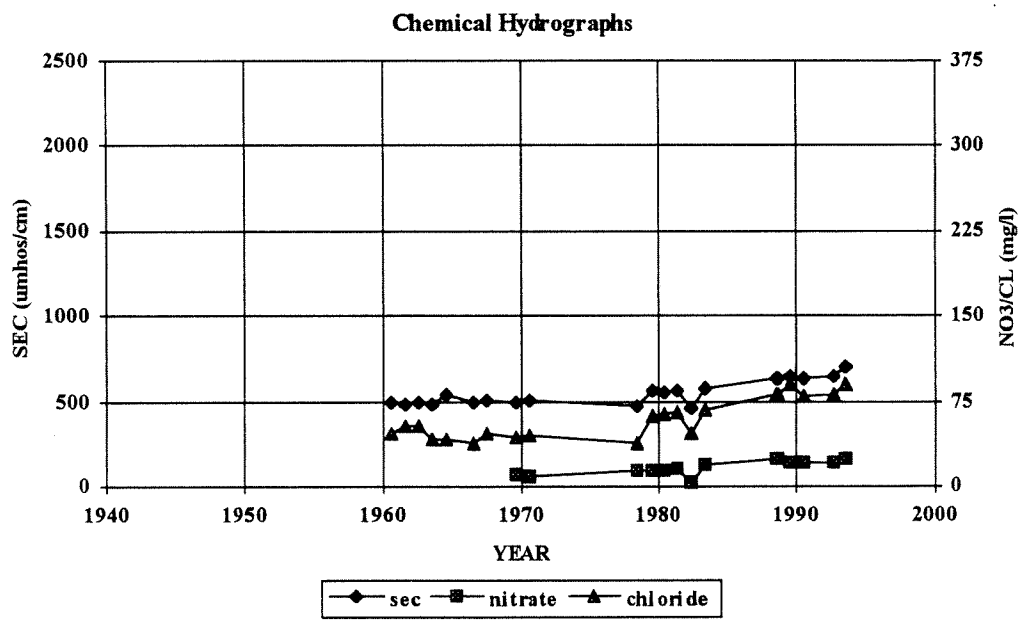
Ground Surface Elevation: 135.6

Perforation Rng Elevations: - No Data

Depth: 466

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/03E-04N01

Area: EAST SIDE

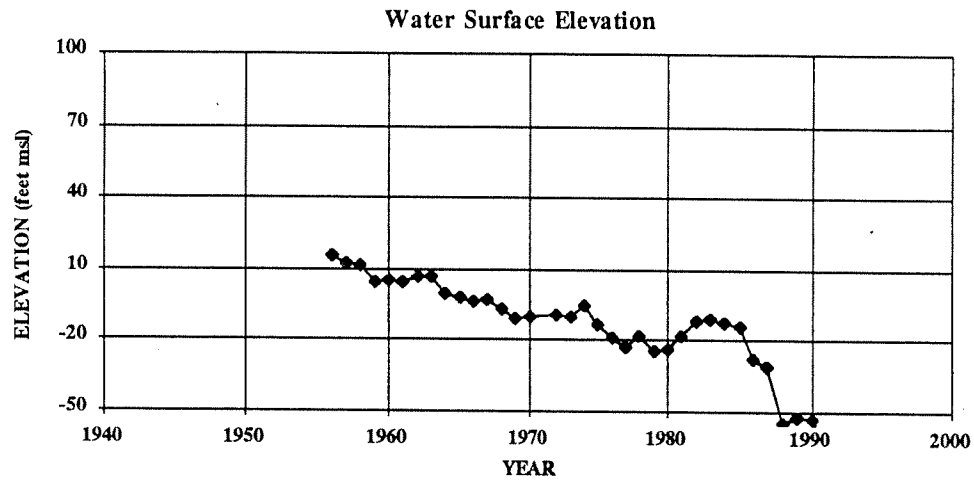
Use: IRRIGATION

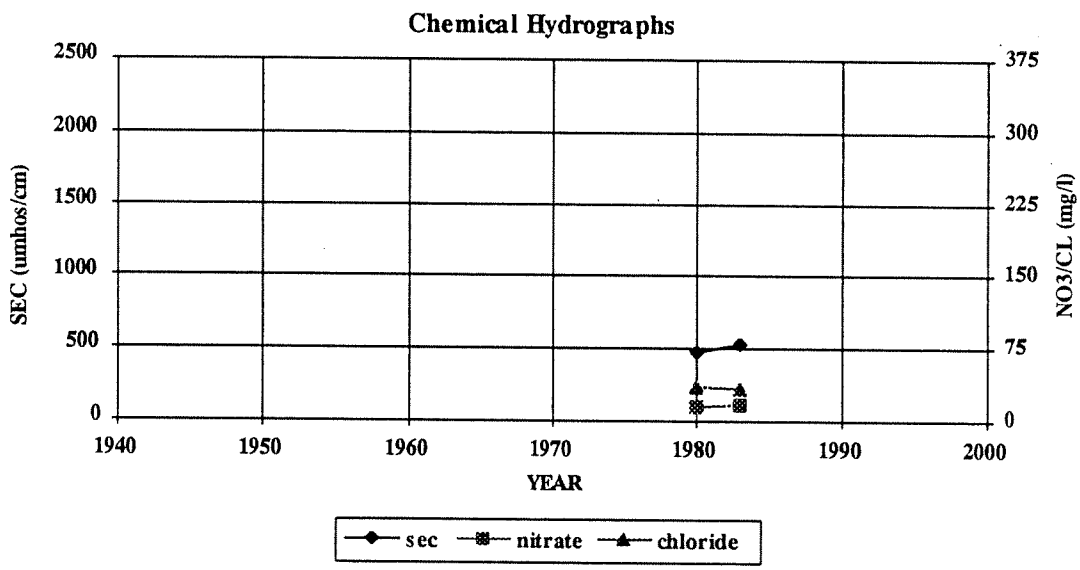
Ground Surface Elevation: 135.3

Perforation Rng Elevations -54.7 - -224.7

Depth: 465

Perforation Range: 190 - 360



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/03E-05B02

Area: EAST SIDE

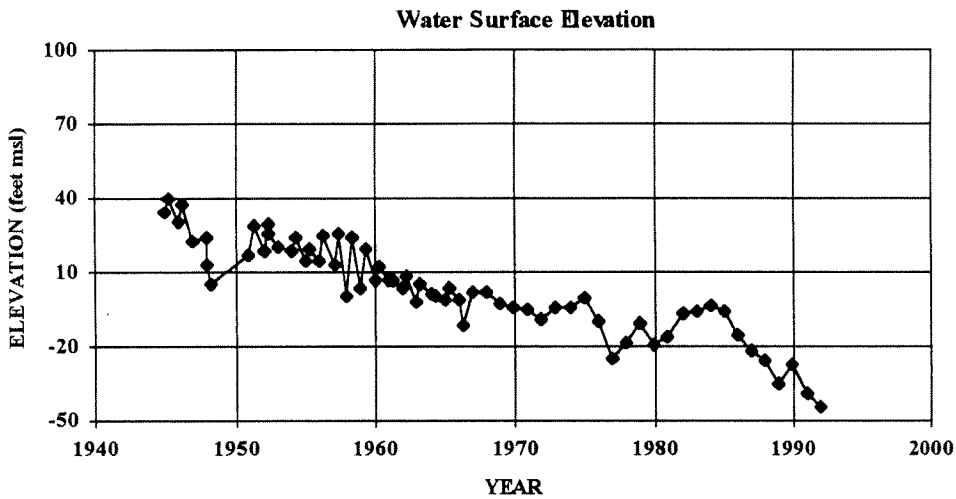
Use: IRRIGATION

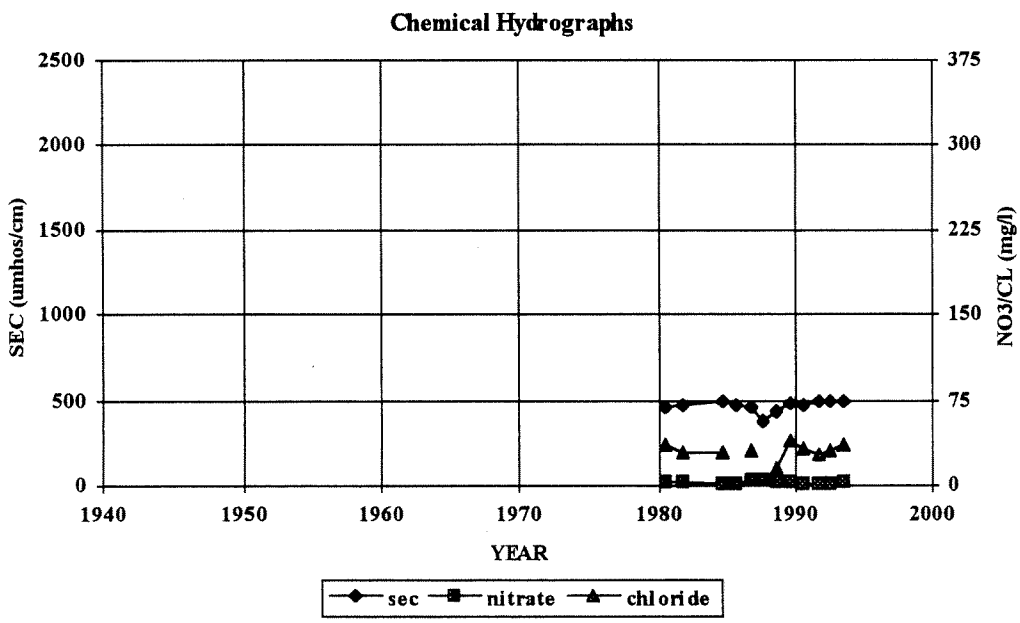
Ground Surface Elevation: 120

Perforation Rng Elevations: - No Data

Depth: 550

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/03E-06L01

Area: EAST SIDE

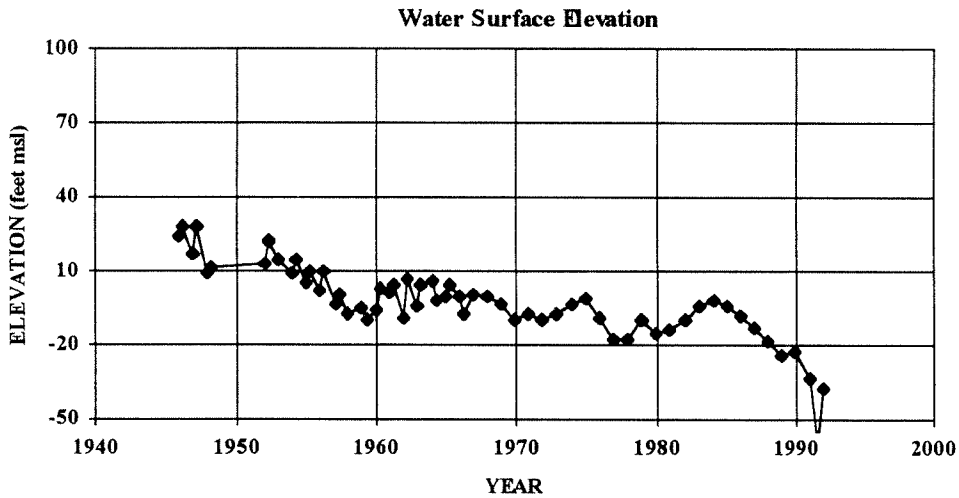
Use: IRRIGATION

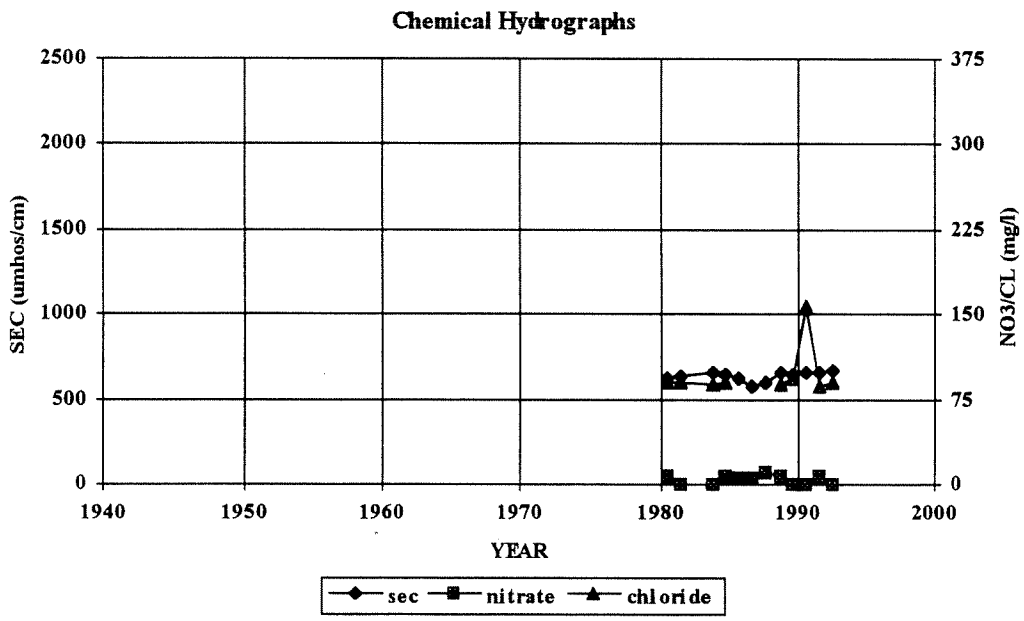
Ground Surface Elevation: 78

Perforation Rng Elevations: - No Data

Depth: 402

Perforation Range: - No Data



# North Monterey County Hydrogeologic Study - Hydrographs

State Well No.: 14S/03E-06L02

Area: EAST SIDE

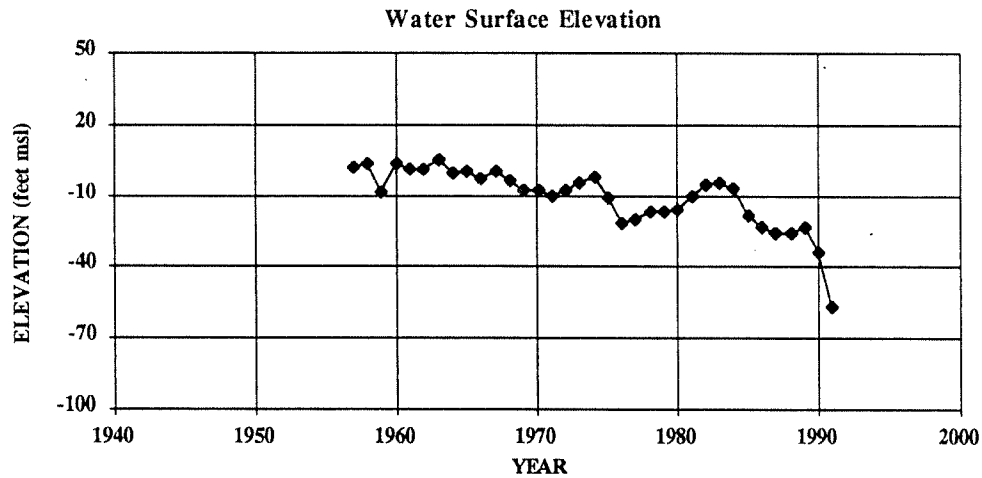
Use: IRRIGATION

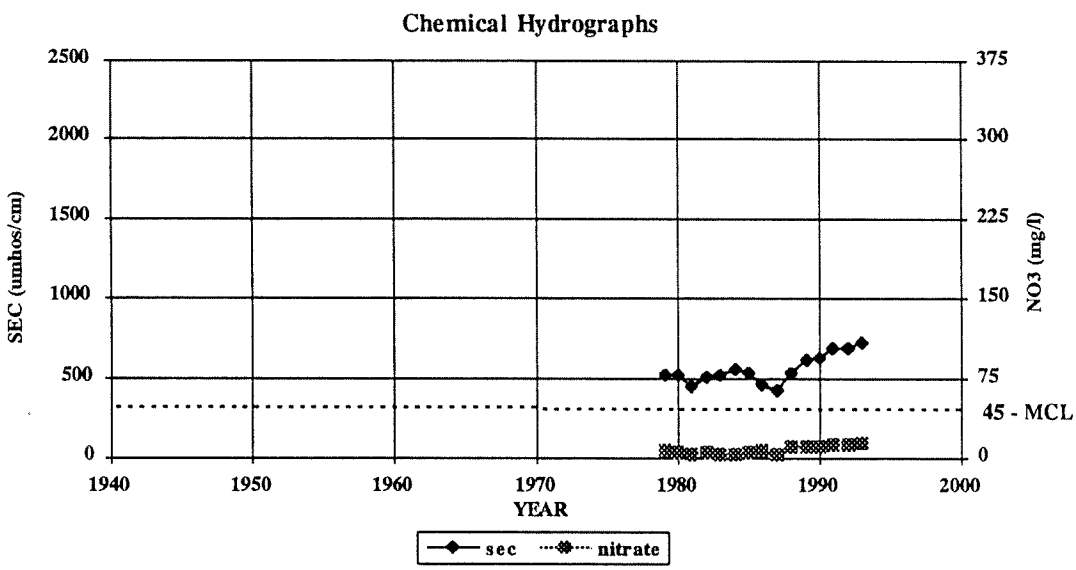
Ground Surface Elevation: 80

Perforation Rng Elevations -130 - -540

Depth: 650

Perforation Range: 210 - 620



# APPENDIX E
# WATER QUALITY DATA

Monterey County Chemistry Laboratory
State Certified Lab #1395
1270 Natividad Road
Salinas, California 93906
(408) 755-4516

May 3, 1995

Water Resources Agency
855 E. Laurel Dr. (Bldg G)
P.O. Box 930
Salinas, CA 93902

Dear Water Agency:

Below are the results of analysis of 10 samples received for examination on April 19, 1995:

**Sample I.D. WL05603** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 135/02E-14E01
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 11:27
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| Nitrate | mg/l | 12 | 1 |
| Chloride | mg/l | 54 | 1.0 |
| Conductivity | umhos at 25 C | 357 | 1 |
| pH | | 7.1 | |
| Alkalinity | mg/l, CaCO3 | 66 | 10 |
| Sulfate | mg/l | 6 | 0.5 |
| Calcium | mg/l | 16 | 1 |
| Magnesium | mg/l | 10 | 1 |
| Sodium | mg/l | 32 | 1 |
| Potassium | mg/l | 1.3 | 0.1 |

**Sample I.D. WL05604** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 135/02E-14C50
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 11:40
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| Nitrate | mg/l | 6 | 1 |
| Chloride | mg/l | 46 | 1.0 |
| Conductivity | umhos at 25 C | 366 | 1 |
| pH | | 7.2 | |
| Alkalinity | mg/l, CaCO3 | 102 | 10 |
| Sulfate | mg/l | 2 | 0.5 |
| Calcium | mg/l | 23 | 1 |
| Magnesium | mg/l | 9 | 1 |

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| Sodium | mg/l | 31 | 1 |
| Potassium | mg/l | 1.2 | 0.1 |

**Sample I.D. WL05605** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 135/02E-11N01
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 12:05
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| Nitrate | mg/l | 36 | 1 |
| Chloride | mg/l | 216 | 1.0 |
| Conductivity | umhos at 25 C | 979 | 1 |
| pH | | 6.8 | |
| Alkalinity | mg/l, CaCO3 | 80 | 10 |
| Sulfate | mg/l | 18 | 0.5 |
| Calcium | mg/l | 36 | 1 |
| Magnesium | mg/l | 24 | 1 |
| Sodium | mg/l | 93 | 1 |
| Potassium | mg/l | 1.9 | 0.1 |

**Sample I.D. WL05606** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 135/02E-11D50
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 12:30
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| Nitrate | mg/l | 2 | 1 |
| Chloride | mg/l | 62 | 1.0 |
| Conductivity | umhos at 25 C | 445 | 1 |
| pH | | 7.6 | |
| Alkalinity | mg/l, CaCO3 | 114 | 10 |
| Sulfate | mg/l | 5 | 0.5 |
| Calcium | mg/l | 25 | 1 |
| Magnesium | mg/l | 12 | 1 |
| Sodium | mg/l | 37 | 1 |
| Potassium | mg/l | 1.5 | 0.1 |

**Sample I.D. WL05607** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 135/02E-03R50
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 12:40
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| Nitrate | mg/l | 9 | 1 |
| Chloride | mg/l | 148 | 1.0 |
| Conductivity | umhos at 25 C | 728 | 1 |
| pH | | 7.5 | |
| Alkalinity | mg/l, CaCO3 | 114 | 10 |
| Sulfate | mg/l | 2 | 0.5 |
| Calcium | mg/l | 34 | 1 |
| Magnesium | mg/l | 25 | 1 |
| Sodium | mg/l | 54 | 1 |
| Potassium | mg/l | 2.1 | 0.1 |

**Sample I.D. WL05608** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 135/02E-02T52
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 12:55
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| **Nitrate** | **mg/l** | **82** | **1** |
| Chloride | mg/l | 104 | 1.0 |
| Conductivity | umhos at 25 C | 698 | 1 |
| pH | | 6.9 | |
| Alkalinity | mg/l, CaCO3 | 68 | 10 |
| Sulfate | mg/l | 34 | 0.5 |
| Calcium | mg/l | 20 | 1 |
| Magnesium | mg/l | 22 | 1 |
| Sodium | mg/l | 65 | 1 |
| Potassium | mg/l | 1.3 | 0.1 |

Summary of specification violations or warnings:

Analyte: Nitrate
Upper specification value: 45 Result: 82

**Sample I.D. WL05609** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 135/02E-03H01
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 13:17
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| Nitrate | mg/l | 12 | 1 |
| Chloride | mg/l | 40 | 1.0 |
| Conductivity | umhos at 25 C | 290 | 1 |
| pH | | 7.5 | |
| Alkalinity | mg/l, CaCO3 | 68 | 10 |
| Sulfate | mg/l | 5 | 0.5 |
| Calcium | mg/l | 11 | 1 |
| Magnesium | mg/l | 9 | 1 |
| Sodium | mg/l | 26 | 1 |
| Potassium | mg/l | 1.0 | 0.1 |

**Sample I.D. WL05610** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 125/02E-34Q01
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 13:30
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| **Nitrate** | **mg/l** | **79** | 1 |
| Chloride | mg/l | 88 | 1.0 |
| Conductivity | umhos at 25 C | 618 | 1 |
| pH | | 7.4 | |
| Alkalinity | mg/l, CaCO3 | 76 | 10 |
| Sulfate | mg/l | 19 | 0.5 |
| Calcium | mg/l | 24 | 1 |
| Magnesium | mg/l | 22 | 1 |
| Sodium | mg/l | 49 | 1 |
| Potassium | mg/l | 1.5 | 0.1 |

Summary of specification violations or warnings:

Analyte: Nitrate
Upper specification value: 45 Result: 79

**Sample I.D. WL05611** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 125/02E-32C01
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 14:45
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| Nitrate | mg/l | 11 | 1 |
| Chloride | mg/l | 57 | 1.0 |
| Conductivity | umhos at 25 C | 691 | 1 |
| pH | | 7.6 | |
| Alkalinity | mg/l, CaCO3 | 242 | 10 |
| Sulfate | mg/l | 47 | 0.5 |
| Calcium | mg/l | 40 | 1 |
| Magnesium | mg/l | 34 | 1 |
| Sodium | mg/l | 43 | 1 |
| Potassium | mg/l | 2.1 | 0.1 |

**Sample I.D. WL05612** Client code: WRA-MISC
Other identification: WRA-MISC Sample site: 125/02E-33N50
Sample collector: ROBERT MARLEY
Sample collection date: 04/19/95 Time: 15:00
Lab submittal date: 04/19/95 Time: 16:00

| TEST PARAMETER | UNITS | TEST RESULT | DETECTION LIMIT |
|---|---|---|---|
| **Nitrate** | **mg/l** | **127** | **1** |
| Chloride | mg/l | 240 | 1.0 |
| Conductivity | umhos at 25 C | 2145 | 1 |
| pH | | 7.3 | |
| Alkalinity | mg/l, CaCO3 | 270 | 10 |
| **Sulfate** | **mg/l** | **425** | **0.5** |
| Calcium | mg/l | 152 | 1 |
| Magnesium | mg/l | 104 | 1 |
| Sodium | mg/l | 105 | 1 |
| Potassium | mg/l | 4.2 | 0.1 |

Summary of specification violations or warnings:

Analyte: Nitrate
Upper specification value: 45 Result: 127

Analyte: Sulfate
Upper specification value: 250 Result: 425

Please advise should you have questions concerning these data.

Respectfully submitted,

David Holland

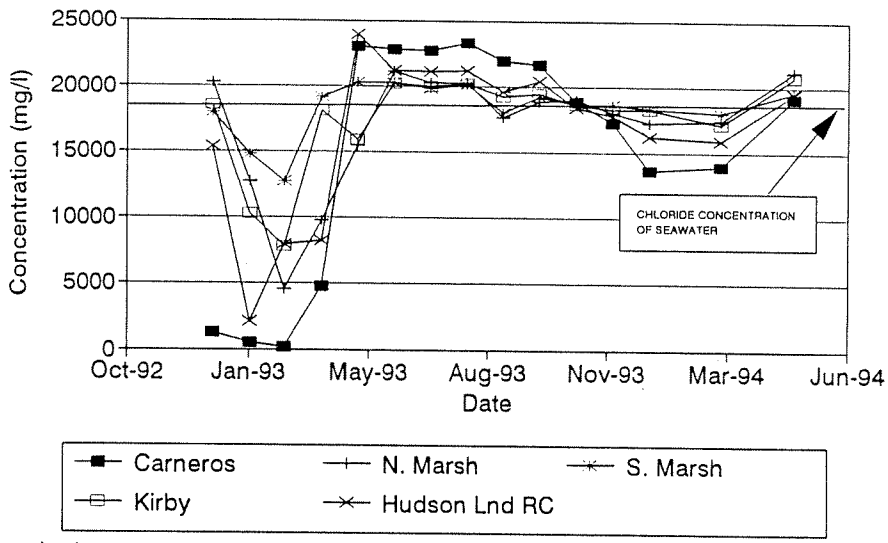
# MAXIMUM NITRATE VALUES - MCWRA STUDY WELLS

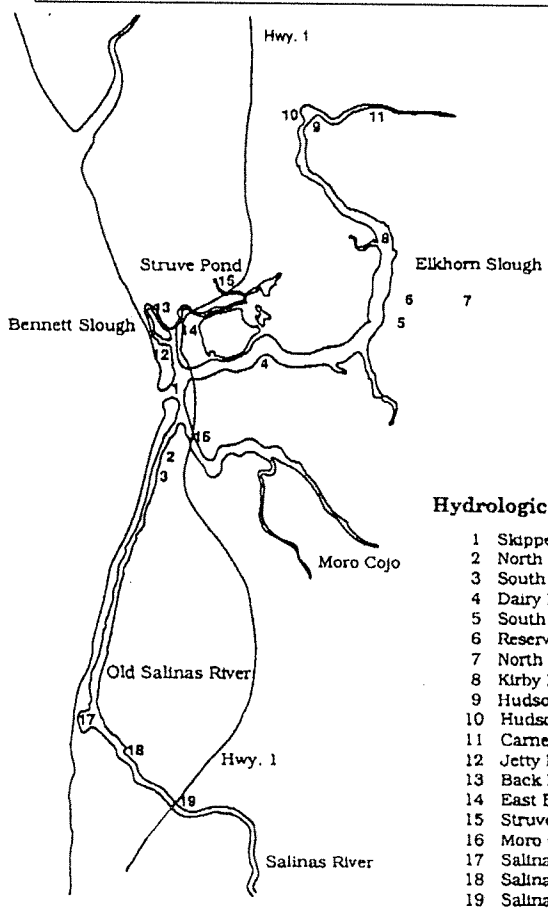
| Well Ident | Subarea | SampleDate | MaxOfnitrate | sec |
|---|---|---|---|---|
| 13S/03E-16C03 | Granite Ridge | 01-Sep-83 | 90.8 | 610 |
| 13S/03E-08D01 | Granite Ridge | 01-Jul-87 | 89.9 | 305 |
| 13S/03E-05P01 | Granite Ridge | 01-Jul-87 | 36.9 | 279 |
| 13S/03E-06G01 | Granite Ridge | 11-Sep-92 | 32.6 | 365 |
| 13S/03E-17F01 | Granite Ridge | 01-Jul-87 | 30.7 | 317 |
| 13S/03E-04L01 | Granite Ridge | 03-Oct-89 | 29 | 336 |
| 13S/03E-16C02 | Granite Ridge | 01-Jul-89 | 26 | 333 |
| 13S/03E-10N01 | Granite Ridge | 01-Jul-88 | 19.8 | 351 |
| 13S/03E-10Q01 | Granite Ridge | 01-Jul-80 | 18.6 | 480 |
| 13S/03E-16J02 | Granite Ridge | 01-Jul-84 | 16.4 | 660 |
| 13S/03E-27D01 | Granite Ridge | 02-Oct-86 | 6.8 | 420 |
| | | | | |
| 12S/02E-25N01 | Highlands | 01-Jul-85 | 155.1 | 520 |
| 13S/03E-17B01 | Highlands | 01-Jul-85 | 139.5 | 1145 |
| 13S/02E-02C01 | Highlands | 01-Jul-87 | 90.9 | 318 |
| 12S/02E-25J01 | Highlands | 01-Jul-90 | 83 | 861 |
| 13S/02E-01K01 | Highlands | 23-Aug-93 | 80 | 297 |
| 12S/02E-14Q01 | Highlands | 01-Jul-87 | 73 | 328 |
| 12S/03E-31E01 | Highlands | 25-Aug-87 | 63.4 | 340 |
| 13S/02E-27M01 | Highlands | 01-Jul-89 | 55 | 1320 |
| 12S/03E-30A01 | Highlands | 01-Jul-87 | 49.8 | 713 |
| 13S/03E-20B02 | Highlands | 01-Jul-87 | 46.8 | 328 |
| 12S/03E-31G01 | Highlands | 05-Oct-89 | 46 | 592 |
| 13S/02E-27P01 | Highlands | 24-Jun-92 | 39.5 | 1637 |
| 12S/02E-14N01 | Highlands | 01-Jul-82 | 36.3 | 320 |
| 13S/03E-17B02 | Highlands | 11-Sep-92 | 35.2 | 541 |
| 13S/03E-20B01 | Highlands | 01-Jul-86 | 32.2 | 392 |
| 12S/03E-19M01 | Highlands | 01-Jul-87 | 29.8 | 418 |
| 12S/02E-13N01 | Highlands | 01-Jul-86 | 29.2 | 251 |
| 13S/02E-12K01 | Highlands | 17-Aug-78 | 25 | 283 |
| 13S/02E-13N01 | Highlands | 24-Aug-93 | 21 | 274 |
| 12S/02E-33H01 | Highlands | 10-Sep-92 | 18.1 | 397 |
| 13S/03E-19H01 | Highlands | 01-Jul-90 | 18 | 357 |
| 13S/02E-10J01 | Highlands | 02-Oct-86 | 15.4 | 555 |
| 12S/03E-33H01 | Highlands | 01-Jul-89 | 15 | 361 |
| 13S/03E-20P01 | Highlands | 01-Jul-87 | 13.8 | 342 |
| 13S/03E-29A01 | Highlands | 01-Sep-65 | 13 | 491 |
| 13S/02E-10G02 | Highlands | 04-Sep-85 | 8.4 | 535 |
| 13S/02E-03Q01 | Highlands | 01-Jul-84 | 5.3 | 1350 |
| 13S/02E-26C01 | Highlands | 01-Sep-83 | 3.1 | 480 |
| 13S/02E-26L01 | Highlands | 01-Jul-83 | 3.1 | 480 |
| 13S/02E-15M01 | Highlands | 24-Aug-87 | 3.1 | 380 |
| 13S/02E-27L01 | Highlands | 05-Aug-87 | 2.9 | 438 |
| 13S/02E-14R01 | Highlands | 19-Jun-57 | 2.4 | 1150 |
| 12S/03E-29H01 | Highlands | 13-Jul-61 | 0.9 | 583 |
| | | | | |
| 12S/03E-18E04 | Pajaro | 04-Oct-93 | 196 | 1528 |
| 12S/02E-12K01 | Pajaro | 01-Jul-81 | 166.1 | 1280 |
| 12S/02E-15E01 | Pajaro | 11-Oct-89 | 93 | 1436 |
| 12S/02E-17R01 | Pajaro | 01-Jul-80 | 43.9 | 780 |
| 12S/03E-07J02 | Pajaro | 18-Sep-92 | 34.1 | 1367 |
| 12S/03E-18D01 | Pajaro | 01-Jul-81 | 23 | 1390 |
| 12S/02E-10J02 | Pajaro | 01-Jul-90 | 20 | 1266 |
| 12S/02E-12E01 | Pajaro | 03-Sep-75 | 14 | 1200 |
| 12S/03E-08C01 | Pajaro | 01-Jul-82 | 9.7 | 1455 |
| 12S/02E-19A02 | Pajaro | 06-Apr-93 | 7.9 | 602 |
| 12S/03E-08C02 | Pajaro | 04-Sep-85 | 3.1 | 1105 |
| 12S/02E-12J01 | Pajaro | 01-Jul-80 | 2.9 | 1300 |
| 12S/02E-16H02 | Pajaro | 20-Aug-87 | 2.6 | 644 |
| 12S/02E-10D01 | Pajaro | 21-Jun-77 | 2.5 | 565 |
| 12S/02E-16Q01 | Pajaro | 01-Jul-90 | 2.5 | 737 |
| 12S/02E-16J01 | Pajaro | 03-Sep-85 | 2.2 | 760 |
| 12S/02E-16F01 | Pajaro | 01-Jul-81 | 0.9 | 570 |
| 12S/02E-16F01 | Pajaro | 03-Sep-85 | 0.9 | 730 |
| 12S/02E-16F01 | Pajaro | 01-Jul-87 | 0.9 | 565 |
| 12S/02E-16L01 | Pajaro | 26-Sep-84 | 0.9 | 755 |
| 12S/02E-16L01 | Pajaro | 01-Jul-82 | 0.9 | 720 |
| 12S/02E-18J01 | Pajaro | 11-Jun-64 | 0.4 | 494 |
| 12S/02E-18K02 | Pajaro | 20-May-64 | 0.4 | 452 |
| 12S/02E-19B01 | Pajaro | 05-Sep-62 | 0.2 | 530 |
| 12S/02E-18K03 | Pajaro | 26-Jul-72 | 0.2 | 483 |
| | | | | |
| 13S/02E-06C01 | Springfield | 01-Jul-87 | 399.5 | 2000 |
| 12S/02E-30N01 | Springfield | 01-Jul-86 | 318.7 | 1126 |
| 12S/02E-31C05 | Springfield | 18-Sep-92 | 300.3 | 1370 |
| 13S/02E-07B04 | Springfield | 03-Mar-76 | 289 | 2310 |
| 13S/02E-06J03 | Springfield | 03-Mar-76 | 245 | 1770 |
| 13S/02E-06C04 | Springfield | 11-Oct-89 | 237 | 3490 |
| 13S/02E-06M02 | Springfield | 02-Mar-76 | 227 | 2480 |
| 12S/02E-29P01 | Springfield | 06-Apr-93 | 211 | 865 |

## MAXIMUM NITRATE VALUES - MCWRA STUDY WELLS

| Well Ident | Subarea | SampleDate | MaxOfnitrate | sec |
|---|---|---|---|---|
| 13S/02E-06R01 | Springfield | 01-Jul-90 | 192 | 2030 |
| 13S/02E-06C03 | Springfield | 02-Mar-76 | 186 | 1560 |
| 12S/02E-31E01 | Springfield | 02-Mar-76 | 173 | 1510 |
| 13S/02E-06E02 | Springfield | 01-Jul-83 | 157.3 | 4500 |
| 12S/02E-32N01 | Springfield | 06-Apr-93 | 147 | 922 |
| 13S/02E-06E03 | Springfield | 10-Oct-89 | 143 | 3430 |
| 12S/02E-31C02 | Springfield | 24-Sep-79 | 131.8 | 750 |
| 12S/02E-31K01 | Springfield | 16-Sep-92 | 128.8 | 1975 |
| 13S/02E-05M01 | Springfield | 01-Jul-80 | 125.8 | 2400 |
| 12S/02E-32K01 | Springfield | 02-Mar-76 | 122 | 818 |
| 12S/02E-31A02 | Springfield | 01-Jul-80 | 99.2 | 650 |
| 12S/02E-29L01 | Springfield | 01-Mar-76 | 96 | 485 |
| 12S/02E-29N01 | Springfield | 07-Oct-88 | 83.4 | 632 |
| 13S/02E-05C02 | Springfield | 13-Sep-93 | 81 | 866 |
| 13S/02E-04E02 | Springfield | 03-Mar-76 | 70 | 2010 |
| 12S/02E-32C01 | Springfield | 11-Oct-89 | 63 | 667 |
| 12S/02E-31C01 | Springfield | 23-Jul-62 | 59 | 495 |
| 13S/02E-07R01 | Springfield | 01-Jul-80 | 58.5 | 3600 |
| 12S/02E-29C02 | Springfield | 03-Mar-76 | 49 | 1180 |
| 12S/02E-31B01 | Springfield | 02-Mar-76 | 48 | 633 |
| 13S/02E-07B01 | Springfield | 24-Jul-58 | 42 | 2895 |
| 12S/02E-31G01 | Springfield | 16-Aug-57 | 29 | 382 |
| 12S/02E-29R01 | Springfield | 10-Oct-89 | 22 | 526 |
| 13S/02E-06E01 | Springfield | 16-Aug-57 | 13 | 1170 |
| 13S/02E-06F03 | Springfield | 24-Jul-58 | 12 | 1198 |
| 13S/02E-07B02 | Springfield | 16-Aug-57 | 12 | 2900 |
| 13S/02E-06G01 | Springfield | 10-Sep-91 | 11 | 1649 |
| 13S/02E-05B01 | Springfield | 02-Mar-76 | 7.6 | 783 |
| 12S/02E-29A01 | Springfield | 11-Oct-89 | 7.1 | 713 |
| 13S/02E-04F01 | Springfield | 01-Jul-87 | 6.3 | 650 |
| 12S/02E-29J03 | Springfield | 03-Mar-76 | 3.5 | 1010 |
| 12S/02E-20K02 | Springfield | 09-Aug-78 | 3.2 | 680 |
| 12S/02E-31Q01 | Springfield | 03-Mar-76 | 2.8 | 1140 |
| 12S/02E-29L02 | Springfield | 16-Aug-57 | 2.7 | 578 |
| 12S/02E-21L01 | Springfield | 01-Mar-76 | 2.5 | 965 |
| 12S/02E-30P01 | Springfield | 28-Jul-58 | 2 | 525 |
| 12S/02E-31A01 | Springfield | 25-Jul-58 | 2 | 648 |
| 12S/02E-30M02 | Springfield | 01-Jul-88 | 1.5 | 637 |
| 12S/02E-31D01 | Springfield | 01-Mar-76 | 1.5 | 534 |
| 12S/02E-20K01 | Springfield | 21-Sep-79 | 0.9 | 740 |
| 12S/02E-20N01 | Springfield | 16-Aug-57 | 0.8 | 598 |
| 13S/02E-06P01 | Springfield | 20-May-64 | 0.7 | 1370 |
| 12S/02E-29E01 | Springfield | 13-Jul-60 | 0.4 | 580 |
| 12S/02E-30F02 | Springfield | 16-Aug-57 | 0.4 | 516 |
| 13S/02E-06D01 | Springfield | 28-Jul-58 | 0.2 | 1470 |
| 13S/02E-05K01 | Springfield | 02-Mar-76 | 0.2 | 724 |
| 12S/02E-19M01 | Springfield | 05-Sep-62 | 0.2 | 700 |
| 12S/02E-30E01 | Springfield | 27-Sep-61 | 0.2 | 530 |
| 12S/02E-30E01 | Springfield | 23-Jul-62 | 0.2 | 13500 |
| 12S/02E-30D01 | Springfield | 01-Mar-76 | 0.2 | 2560 |

# CHLORIDE ION CONCENTRATIONS (mg/l)
## Elkhorn Slough




**Hydrologic Sampling Site Locations**

1 Skipper's Dock
2 North Potrero Road
3 South Potrero Road
4 Dairy Dock
5 South Marsh
6 Reserve non flushed
7 North Marsh
8 Kirby Park
9 Hudson's Landing Culverts
10 Hudson's Landing Pilings
11 Carneros Creek
12 Jetty Road
13 Back Bennett Slough
14 East Bennett Slough
15 Struve Pond
16 Moro Cojo Slough
17 Salinas River Lagoon
18 Salinas River Mid
19 Salinas River Bridge

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: 01/30/94

(Units in mg/l unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 3 | <0.1 | 0.04 | 18600 | 48300 |
| 2 | RES BRG | 3 | <0.1 | 0.04 | 18700 | 48000 |
| 3 | S MARSH | 2 | <0.1 | 0.04 | 18300 | 47200 |
| 4 | N MARSH | 4 | 0.4 | <0.03 | 17200 | 44800 |
| 5 | KIRBY | 4 | <0.1 | 0.04 | 18200 | 47500 |
| 6 | UPPER POND | 7 | 0.1 | 0.05 | 16600 | 44500 |
| 7 | MID POND | 9 | 0.2 | 0.06 | 4700 | 14160 |
| 8 | LOWER POND | 11 | 0.3 | 0.22 | 1100 | 2580 |
| 9 | HUD LDG RC | 3 | 0.1 | 0.07 | 16200 | 43900 |
| 10 | HUD LDG LP | 2 | 0.1 | 0.06 | 16100 | 43150 |
| 11 | CARNEROS | 6 | 0.6 | <0.03 | 13600 | 38200 |
| 12 | STRUVE RD | 3 | 0.4 | 0.43 | 15200 | 38600 |
| 13 | BACK BENNETT | 2 | 0.1 | 0.07 | 18600 | 47500 |
| 14 | EAST BENNETT | 2 | 0.9 | 0.15 | 19400 | 45200 |
| 15 | JETTY | 1 | 0.1 | 0.04 | 18350 | 48500 |
| 16 | ML RD N | 11 | 0.2 | 0.14 | 16000 | 42900 |
| 17 | ML RD S | 2 | 0.1 | 0.09 | 17800 | 46300 |
| 18 | N POTRERO | 56 | 0.5 | 0.49 | 9400 | 22300 |
| 19 | S POTRERO | 95 | 0.7 | 0.66 | 3400 | 9900 |
| 20 | MONT DUNE WY | 29 | 0.3 | 0.27 | 6100 | 16900 |
| 21 | SAL RVR LGN | 30 | 0.4 | 0.25 | 4500 | 14530 |
| 22 | SAL RVR BRG | 81 | 0.2 | 0.39 | 3500 | 11000 |
| 23 | MORO COJO | 2 | 0.2 | 0.35 | 11900 | 33500 |

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MONTEREY COUNTY
WATER RESOURCES AGE
P.O. BOX 930
SALINAS, CA 93902-093

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: MARCH 7, 1994

(Units in mg/l unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 2 | <0.05 | 0.03 | 18400 | 49800 |
| 2 | RES BRG | 2 | 0.07 | 0.06 | 18400 | 49400 |
| 3 | S MARSH | 3 | <0.05 | 0.06 | 18000 | 48700 |
| 4 | N MARSH | 1 | 0.21 | 0.06 | 17400 | 48400 |
| 5 | KIRBY | 2 | 0.11 | 0.10 | 17100 | 46800 |
| 6 | UPPER POND | 3 | 0.13 | 0.05 | 18300 | 49000 |
| 7 | MID POND | <1 | <0.05 | 0.07 | 4100 | 12800 |
| 8 | LOWER POND | 2 | <0.05 | <0.03 | 5100 | 15600 |
| 9 | HUD LDG RC | 2 | 0.05 | 0.12 | 15900 | 42400 |
| 10 | HUD LDG LP | 3 | 0.06 | 0.14 | 15600 | 42200 |
| 11 | CARNEROS | 3 | 0.11 | 0.10 | 13900 | 38500 |
| 12 | STRUVE RD | 2 | <0.05 | 0.22 | 11300 | 31300 |
| 13 | BACK BENNETT | 2 | <0.05 | 0.10 | 18300 | 49500 |
| 14 | EAST BENNETT | 4 | <0.05 | 0.17 | 18500 | 49500 |
| 15 | JETTY | 3 | <0.05 | 0.07 | 18600 | 49600 |
| 16 | ML RD N | 6 | <0.05 | 0.09 | 17800 | 48000 |
| 17 | ML RD S | 1 | <0.05 | 0.28 | 9800 | 28400 |
| 18 | N POTRERO | 14 | 0.07 | 0.16 | 16900 | 44200 |
| 19 | S POTRERO | 75 | 0.42 | 0.59 | 1300 | 4700 |
| 20 | MONT DUNE WY | 11 | <0.07 | 0.13 | 16100 | 44100 |
| 21 | SAL RVR LGN | 17 | <0.05 | 0.11 | 14700 | 40500 |
| 22 | SAL RVR BRG | 51 | <0.05 | 0.21 | 7800 | 23000 |
| 23 | MORO COJO | 3 | <0.05 | 0.10 | 7400 | 20000 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: 05/02/94

(Units in mg/l unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 2 | <0.05 | <0.03 | 19000 | 50300 |
| 2 | RES BRG | 2 | <0.05 | 0.05 | 19400 | 51100 |
| 3 | S MARSH | 2 | <0.05 | 0.05 | 19600 | 51500 |
| 4 | N MARSH | 4 | <0.05 | 0.03 | 21200 | 54800 |
| 5 | KIRBY | 3 | <0.05 | 0.08 | 20700 | 51600 |
| 6 | UPPER POND | 2 | <0.05 | 0.05 | 19400 | 51200 |
| 7 | MID POND | 4 | <0.05 | 0.34 | 13100 | 36300 |
| 8 | LOWER POND | 3 | <0.05 | 0.24 | 13000 | 36400 |
| 9 | HUD LDG RC | 3 | <0.05 | 0.17 | 19500 | 51800 |
| 10 | HUD LDG LP | 4 | <0.05 | 0.19 | 24400 | 51700 |
| 11 | CARNEROS | 4 | <0.05 | 0.05 | 19100 | 50500 |
| 12 | STRUVE RD | 3 | <0.05 | 0.42 | 17600 | 46900 |
| 13 | BACK BENNETT | 2 | <0.05 | 0.10 | 19100 | 50800 |
| 14 | EAST BENNETT | 2 | <0.05 | 0.03 | 19800 | 52400 |
| 15 | JETTY | 1 | <0.05 | 0.08 | 19200 | 51200 |
| 16 | ML RD N | 11 | <0.05 | 0.08 | 17900 | 47400 |
| 17 | ML RD S | 4 | <0.05 | 0.08 | 18600 | 48700 |
| 18 | N POTRERO | 95 | 0.15 | 0.38 | 6600 | 19600 |
| 19 | S POTRERO | 103 | 0.11 | 0.43 | 5500 | 17300 |
| 20 | MONT DUNE WY | 75 | 0.08 | 0.18 | 9600 | 27900 |
| 21 | SAL RVR LGN | 109 | <0.05 | 0.08 | 7200 | 21500 |
| 22 | SAL RVR BRG | 137 | <0.05 | 0.04 | 4700 | 14980 |
| 23 | MORO COJO | 3 | <0.05 | 0.14 | 18400 | 48800 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: January 29, 1993

| LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|
| SKIPPERS | 20.0 | .3 | .19 | 16700 | 40000 |
| RES BRG | 4.3 | .3 | .08 | 17600 | 38700 |
| S MARSH | 4.3 | .4 | .09 | 17900 | 35200 |
| N MARSH | 4.9 | .6 | .09 | 20300 | 35000 |
| KIRBY | 4.5 | .5 | .08 | 18500 | 38100 |
| UPPER POND | 38.7 | .5 | .07 | 11100 | 24100 |
| MID POND | 11.0 | 1.3 | .61 | 2150 | 4280 |
| LOWER POND | 0.8 | .1 | .50 | 3100 | 7300 |
| HUD LDG RC | 7.8 | .3 | .13 | 15350 | 34500 |
| HUD LDG LP | 10.6 | .4 | .15 | 12850 | 27400 |
| CARNEROS | 16.6 | .2 | .11 | 252 | 1242 |
| STRUVE RD | 22.0 | .5 | .95 | 2300 | 6610 |
| BACK BENNETT | | | | | |
| EAST BENNETT | 7.4 | .8 | .41 | 4600 | 14470 |
| JETTY | 10.1 | .4 | .52 | 10100 | 29200 |
| ML RD N | 15.7 | .3 | .28 | 13100 | 36600 |
| ML RD S | .7 | .7 | .80 | 1150 | 4260 |
| N POTRERO | 207 | 1.0 | .71 | 950 | 4270 |
| S POTRERO | 219 | 1.1 | .74 | 600 | 3180 |
| MONT DUNE WY N | 244 | .8 | .73 | 2800 | 8150 |
| SAL RVR LGN | 25.9 | .1 | .15 | 116 | 948 |
| SAL RVR BRG | 17.3 | <.1 | .08 | 38 | 623 |
| MORO COJO | 1.0 | .6 | .74 | 850 | 3150 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: FEBRUARY, 1993

| LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|
| SKIPPERS | 6.8 | <.1 | .06 | 14300 | 33600 |
| RES BRG | 1.7 | .1 | .03 | 14700 | 39600 |
| S MARSH | 1.5 | .1 | .04 | 14700 | 39800 |
| N MARSH | 2.5 | .1 | .02 | 12700 | 34900 |
| KIRBY | 5.3 | .3 | .06 | 10300 | 28700 |
| UPPER POND | 17.5 | .2 | .09 | 10100 | 28000 |
| MID POND | 3.8 | 1.0 | .13 | 1400 | 4550 |
| LOWER POND | <.1 | .1 | .24 | 600 | 1895 |
| HUD LDG RC | 18.3 | .3 | .12 | 2100 | 706 |
| HUD LDG LP | 12.4 | .4 | .20 | 3000 | 946 |
| CARNEROS | 5.5 | .1 | .13 | 75 | 457 |
| STRUVE RD | 12.8 | .5 | .33 | 3275 | 944 |
| BACK BENNETT | 7.4 | .2 | .17 | 11900 | 32700 |
| EAST BENNETT | <1 | .6 | .04 | 9800 | 27300 |
| JETTY | 6.6 | .2 | .10 | 14600 | 39300 |
| ML RD N | 1.9 | .4 | .24 | 3750 | 11730 |
| ML RD S | 1.2 | .4 | .49 | 500 | 2900 |
| N POTRERO | 122 | .1 | .35 | 250 | 1833 |
| S POTRERO | 124 | .6 | .41 | 200 | 1439 |
| MONT DUNE WY N | 156 | .2 | .28 | 1150 | 7200 |
| SAL RVR LGN | 63 | <.1 | .10 | 58 | 522 |
| SAL RVR BRG | 2.6 | <.1 | .11 | 28 | 372 |
| MORO COJO | <1 | .3 | .59 | 800 | 2390 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: MARCH 31, 1993

| LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|
| SKIPPERS | 44.0 | .4 | .75 | 5600 | 16140 |
| RES BRG | 3.7 | .2 | .17 | 12700 | 34600 |
| S MARSH | 1.3 | .1 | .09 | 12700 | 34600 |
| N MARSH | 6.5 | 3.1 | .02 | 4500 | 13000 |
| KIRBY | 3.2 | .4 | .18 | 7800 | 21800 |
| UPPER POND | 25.7 | .4 | .42 | 3700 | 11100 |
| MID POND | <1 | .2 | .35 | 825 | 2500 |
| LOWER POND | <1 | <.1 | 1.26 | 325 | 1170 |
| HUD LDG RC | 4.7 | .4 | .23 | 7925 | 22300 |
| HUD LDG LP | 6.0 | .5 | .27 | 4775 | 14100 |
| CARNEROS | 7.5 | .2 | .17 | 190 | 622 |
| STRUVE RD | 2.7 | 1.4 | 1.22 | 1900 | 6300 |
| BACK BENNETT | 1.6 | .3 | 1.46 | 8300 | 23800 |
| EAST BENNETT | 3.1 | .4 | .35 | 11800 | 33100 |
| JETTY | 15.2 | .3 | .59 | 9900 | 28000 |
| ML RD N | 5.9 | .3 | .56 | 9650 | 27200 |
| ML RD S | 2.7 | .6 | 1.26 | 975 | 3520 |
| N POTRERO | 90.4 | .3 | .67 | 5700 | 17500 |
| S POTRERO | 182 | .3 | .90 | 650 | 2650 |
| MONT DUNE WY N | 176 | .2 | .98 | 175 | 1230 |
| SAL RVR LGN | 32.5 | <.1 | .21 | 190 | 1220 |
| SAL RVR BRG | 15.1 | <.1 | .15 | 50 | 640 |
| MORO COJO | 2.8 | .6 | 1.28 | 600 | 2320 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: APRIL 30, 1993

| LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|
| SKIPPERS | 3.0 | 0.2 | .05 | 18900 | 50100 |
| RES BRG | 2.0 | 0.5 | .08 | 19400 | 50500 |
| S MARSH | 3.0 | <0.1 | .06 | 19100 | 50200 |
| N MARSH | 2.0 | 1.3 | .01 | 9700 | 27600 |
| KIRBY | 3.0 | 0.4 | .19 | 18100 | 48400 |
| UPPER POND | 2.0 | 0.2 | .16 | 16000 | 43000 |
| MID POND | <1.0 | <0.1 | .28 | 2850 | 8720 |
| LOWER POND | 2.0 | <0.1 | 1.46 | 3950 | 22500 |
| HUD LDG RC | 2.0 | <0.1 | .35 | 8250 | 44200 |
| HUD LDG LP | 3.0 | <0.1 | .34 | 8300 | 44500 |
| CARNEROS | 5.0 | 0.3 | .05 | 4750 | 14430 |
| STRUVE RD | 2.0 | 0.4 | 2.0 | 9600 | 27400 |
| BACK BENNETT | 1.0 | 0.2 | .51 | 17900 | 46500 |
| EAST BENNETT | 2.0 | 0.2 | .33 | 18000 | 47500 |
| JETTY | 6.0 | 0.2 | .41 | 18400 | 48400 |
| ML RD N | 5.0 | 0.1 | .10 | 18500 | 48200 |
| ML RD S | 3.0 | 0.2 | .24 | 17600 | 45900 |
| N POTRERO | 8.0 | 0.2 | .13 | 18300 | 47200 |
| S POTRERO | 179 | 0.3 | .66 | 3850 | 12080 |
| MONT DUNE WY N | 76 | 0.8 | .36 | 7100 | 20300 |
| SAL RVR LGN | 22 | 0.1 | .01 | 5100 | 15210 |
| SAL RVR BRG | 53 | 0.2 | <.01 | 2400 | 8030 |
| MORO COJO | 2.0 | 0.4 | .31 | 17500 | 45700 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: MAY 24, 1993

| LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|
| SKIPPERS | 2.0 | 0.2 | .04 | 18400 | 48800 |
| RES BRG | 2.0 | 0.2 | .11 | 24600 | 49100 |
| S MARSH | 2.0 | 0.2 | .11 | 20300 | 51100 |
| N MARSH | 2.0 | 5.6 | .03 | 15400 | 32900 |
| KIRBY | 2.0 | 0.3 | .11 | 15900 | 49600 |
| UPPER POND | 2.0 | 0.2 | .05 | 26000 | 50600 |
| MID POND | 2.0 | 0.3 | .26 | 12400 | 26100 |
| LOWER POND | 12.0 | 0.4 | 4.21 | 24100 | 49700 |
| HUD LDG RC | 4.0 | 0.2 | .38 | 23900 | 51300 |
| HUD LDG LP | 3.0 | 0.2 | .35 | 26400 | 52100 |
| CARNEROS | 4.0 | 0.7 | .12 | 23000 | 48000 |
| STRUVE RD | 5.0 | <.1 | 1.03 | 27800 | 54500 |
| BACK BENNETT | 2.0 | <.1 | .24 | 18700 | 49100 |
| EAST BENNETT | 2.0 | <.1 | .25 | 25500 | 50800 |
| JETTY | 3.0 | <.1 | .15 | 23900 | 49600 |
| ML RD N | 19 | 0.3 | .09 | 17700 | 38400 |
| ML RD S | 4.0 | 0.2 | .09 | 41000 | 48600 |
| N POTRERO | 14 | 0.3 | .15 | 21600 | 43100 |
| S POTRERO | 79 | 0.1 | .11 | 9200 | 20500 |
| MONT DUNE WY N | 48 | 0.5 | .04 | 5800 | 16000 |
| SAL RVR LGN | 54 | 0.4 | .01 | 6800 | 15600 |
| SAL RVR BRG | 110 | 0.4 | .02 | 2450 | 6610 |
| MORO COJO | 7.0 | 0.8 | .51 | 24600 | 50100 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: JUNE 1993

(Units in mg/L unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 3 | .1 | 0.05 | 18,100 | 50400 |
| 2 | RES BRG | 2 | .1 | 0.07 | 19,750 | 50900 |
| 3 | S MARSH | 4 | .1 | 0.11 | 20,300 | 51200 |
| 4 | N MARSH | 2 | 1.1 | 0.18 | 21,100 | 55000 |
| 5 | KIRBY | 2 | .2 | 0.10 | 20,200 | 51400 |
| 6 | UPPER POND | 3 | .2 | 0.10 | 20,300 | 52700 |
| 7 | MID POND | 2 | .4 | 0.18 | 24,800 | 65200 |
| 8 | LOWER POND | 7 | <.1 | 1.83 | 23,400 | 58600 |
| 9 | HUD LDG RC | 3 | .1 | 0.39 | 21,200 | 59000 |
| 10 | HUD LDG LP | 2 | .1 | 0.37 | 21,800 | 56600 |
| 11 | CARNEROS | 3 | .1 | 0.07 | 22,800 | 60000 |
| 12 | STRUVE RD | 7 | <.1 | 1.02 | 21,800 | 59200 |
| 13 | BACK BENNETT | 3 | .2 | 0.21 | 19,300 | 52400 |
| 14 | EAST BENNETT | 4 | .2 | 0.37 | 20,800 | 56600 |
| 15 | JETTY | 3 | .1 | 0.17 | 19,400 | 52700 |
| 16 | ML RD N | 3 | .5 | 0.07 | 18,500 | 51200 |
| 17 | ML RD S | 8 | .5 | 0.11 | 19,300 | 52100 |
| 18 | N POTRERO | 7 | .2 | 0.10 | 19,200 | 50000 |
| 19 | S POTRERO | 196 | .7 | 0.35 | 2,420 | 8670 |
| 20 | MONT DUNE WY | 85 | .1 | 0.12 | 2,530 | 9140 |
| 21 | SAL RVR LGN | 90 | <.1 | 0.06 | 2,180 | 7780 |
| 22 | SAL RVR BRG | 179 | .6 | 0.11 | 1,150 | 4970 |
| 23 | MORO COJO | 5 | .1 | 0.08 | 19,800 | 50600 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: JULY 1993

(Units in mg/L unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 2 | 0.1 | .08 | 19300 | 51200 |
| 2 | RES BRG | 2 | 0.1 | .06 | 19000 | 49000 |
| 3 | S MARSH | 2 | <0.1 | .07 | 19800 | 48500 |
| 4 | N MARSH | 4 | 0.5 | .10 | 20300 | 50300 |
| 5 | KIRBY | 2 | 0.1 | .10 | 20000 | 48800 |
| 6 | UPPER POND | 2 | 0.2 | .07 | 19900 | 49000 |
| 7 | MID POND | 6 | 0.2 | 1.29 | 25500 | 60200 |
| 8 | LOWER POND | 8 | <0.1 | 1.15 | 31900 | 71900 |
| 9 | HUD LDG RC | 4 | 0.1 | .28 | 21100 | 50900 |
| 10 | HUD LDG LP | 1.64 | 0.1 | .28 | 21200 | 50200 |
| 11 | CARNEROS | 3 | 0.5 | .16 | 22700 | 51100 |
| 12 | STRUVE RD | 5 | 0.4 | 1.10 | 22400 | 47800 |
| 13 | BACK BENNETT | 1 | 0.1 | .12 | 20000 | 38800 |
| 14 | EAST BENNETT | 2 | 0.2 | .16 | 20400 | 44400 |
| 15 | JETTY | 2 | <0.1 | .09 | 19500 | 42200 |
| 16 | ML RD N | 36 | 0.1 | .09 | 14000 | 32400 |
| 17 | ML RD S | 2 | 0.6 | .10 | 19400 | 40300 |
| 18 | N POTRERO | 24 | 0.3 | .26 | 15600 | 36000 |
| 19 | S POTRERO | 178 | 0.2 | .18 | 4700 | 11000 |
| 20 | MONT DUNE WY | 128 | <0.1 | .18 | 2900 | 7000 |
| 21 | SAL RVR LGN | 105 | <0.1 | .09 | 2400 | 5800 |
| 22 | SAL RVR BRG | 228 | 0.2 | .00 | 1400 | 3200 |
| 23 | MORO COJO | 2 | 0.2 | .10 | 21000 | 45300 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: AUGUST 10, 1993

(Units in mg/l unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 5 | 0.1 | .05 | 18700 | 48700 |
| 2 | RES BRG | 2 | 0.2 | .07 | 18600 | 50500 |
| 3 | S MARSH | 2 | <0.1 | .06 | 20100 | 51800 |
| 4 | N MARSH | 3 | 0.5 | .03 | 20300 | 51900 |
| 5 | KIRBY | 2 | 0.1 | .08 | 20200 | 51000 |
| 6 | UPPER POND | 3 | 0.2 | .08 | 20800 | 52800 |
| 7 | MID POND | 8 | 0.3 | 1.34 | 31400 | 75500 |
| 8 | LOWER POND | 8 | <0.1 | 1.43 | 37000 | 85100 |
| 9 | HUD LDG RC | 4 | <0.1 | .29 | 21200 | 54500 |
| 10 | HUD LDG LP | 4 | 0.1 | .30 | 21600 | 53000 |
| 11 | CARNEROS | 4 | 0.3 | .16 | 23300 | 57700 |
| 12 | STRUVE RD | 5 | 0.1 | 3.23 | 19600 | 49400 |
| 13 | BACK BENNETT | 2 | 0.1 | 0.17 | 19500 | 49900 |
| 14 | EAST BENNETT | 3 | 0.1 | 0.23 | 21400 | 53400 |
| 15 | JETTY | 1 | <0.1 | .09 | 19500 | 49400 |
| 16 | ML RD N | 12 | 0.1 | .06 | 18100 | 40200 |
| 17 | ML RD S | 3 | 0.2 | .08 | 18900 | 49000 |
| 18 | N POTRERO | 6 | 0.2 | .08 | 18600 | 48300 |
| 19 | S POTRERO | 98 | <0.1 | .01 | 4600 | 13700 |
| 20 | MONT DUNE WY | 81 | <0.1 | .05 | 2500 | not done |
| 21 | SAL RVR LGN | 89 | <0.1 | .08 | 1700 | 6300 |
| 22 | SAL RVR BRG | 144 | 0.2 | <0.3 | 950 | 3960 |
| 23 | MORO COJO | 4 | <0.1 | .15 | 22300 | 57400 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: September 20, 1993

(Units in mg/l unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 2 | <0.1 | 0.05 | 18400 | 49100 |
| 2 | RES BRG | 2 | <0.1 | 0.05 | 19600 | 49000 |
| 3 | S MARSH | 2 | <0.1 | 0.05 | 18000 | 49700 |
| 4 | N MARSH | 3 | 0.4 | <0.3 | 17600 | 45800 |
| 5 | KIRBY | 2 | <0.1 | 0.06 | 19200 | 48900 |
| 6 | UPPER POND | 2 | <0.1 | 0.06 | 19200 | 49800 |
| 7 | MID POND | 5 | <0.1 | 0.27 | 32200 | 86700 |
| 8 | LOWER POND | 12 | <0.1 | 0.96 | 74800 | 108300 |
| 9 | HUD LDG RC | 2 | <0.1 | 0.11 | 19600 | 51400 |
| 10 | HUD LDG LP | 2 | <0.1 | 0.12 | 19900 | 51100 |
| 11 | CARNEROS | 3 | <0.1 | 0.24 | 21900 | 54400 |
| 12 | STRUVE RD | 3 | <0.1 | 0.62 | 22000 | 53400 |
| 13 | BACK BENNETT | 2 | <0.1 | 0.08 | 18100 | 48200 |
| 14 | EAST BENNETT | 1 | <0.1 | 0.07 | 19700 | 49700 |
| 15 | JETTY | 2 | <0.1 | 0.07 | 18900 | 48500 |
| 16 | ML RD N | 12 | <0.1 | 0.07 | 16900 | 44850 |
| 17 | ML RD S | 2 | <0.1 | 0.06 | 19600 | 50400 |
| 18 | N POTRERO | 4 | 0.1 | 0.10 | 18500 | 48400 |
| 19 | S POTRERO | 132 | <0.1 | 0.08 | 1450 | 6060 |
| 20 | MONT DUNE WY | 111 | <0.1 | 0.24 | 2300 | 8290 |
| 21 | SAL RVR LGN | 109 | <0.1 | 0.13 | 1300 | 5590 |
| 22 | SAL RVR BRG | 128 | <0.1 | 0.18 | 700 | 3840 |
| 23 | MORO COJO | 3 | <0.1 | 0.13 | 22900 | 57700 |

MONTEREY COUNTY
WATER RESOURCES
P.O. BOX 930
SALINAS, CA 93902

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: October 25, 1993

(Units in mg/l unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 2 | 0.06 | 0.03 | 18500 | 48100 |
| 2 | RES BRG | 1 | 0.06 | 0.06 | 18800 | 50100 |
| 3 | S MARSH | 2 | 0.05 | 0.06 | 19200 | 48200 |
| 4 | N MARSH | 2 | 0.08 | 0.08 | 18800 | 48400 |
| 5 | KIRBY | 2 | 0.09 | 0.10 | 19400 | 51300 |
| 6 | UPPER POND | 3 | 0.06 | 0.10 | 20000 | 51900 |
| 7 | MID POND | 5 | 0.07 | 0.39 | 33400 | 84500 |
| 8 | LOWER POND | 13 | 0.05 | 0.48 | 55000 | 116300 |
| 9 | HUD LDG RC | 3 | <0.05 | 0.17 | 20400 | 49200 |
| 10 | HUD LDG LP | 2 | <0.05 | 0.16 | 20200 | 50700 |
| 11 | CARNEROS | 3 | <0.05 | 0.09 | 21600 | 48500 |
| 12 | STRUVE RD | 5 | <0.05 | 1.22 | 22200 | 54200 |
| 13 | BACK BENNETT | 2 | 0.05 | 0.07 | 19200 | 47200 |
| 14 | EAST BENNETT | 2 | <0.05 | 0.12 | 19400 | 44200 |
| 15 | JETTY | 3 | <0.05 | 0.05 | 18600 | 46500 |
| 16 | ML RD N | 4 | 0.08 | 0.08 | 17800 | 47200 |
| 17 | ML RD S | 3 | 0.10 | 0.06 | 18800 | 47700 |
| 18 | N POTRERO | 19 | 0.10 | 0.22 | 15200 | 39800 |
| 19 | S POTRERO | 89 | 0.16 | 0.46 | 6000 | 18300 |
| 20 | MONT DUNE WY | 114 | 0.15 | 0.38 | 3050 | 10740 |
| 21 | SAL RVR LGN | 128 | 0.05 | 0.30 | 1450 | 5400 |
| 22 | SAL RVR BRG | 140 | <0.05 | 0.04 | 725 | 3780 |
| 23 | MORO COJO | 3 | 0.05 | 0.06 | 19000 | 49900 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: November 16, 1993

(Units in mg/l unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 2 | <0.05 | 0.03 | 19400 | 52200 |
| 2 | RES BRG | 1 | 0.06 | 0.04 | 18600 | 52100 |
| 3 | S MARSH | 1 | 0.05 | 0.03 | 18600 | 52300 |
| 4 | N MARSH | 2 | 0.12 | 0.03 | 19000 | 51800 |
| 5 | KIRBY | 1 | <0.05 | 0.03 | 18600 | 52000 |
| 6 | UPPER POND | 1 | 0.06 | 0.06 | 18600 | 51000 |
| 7 | MID POND | 4 | 1.75 | 0.26 | 17000 | 49000 |
| 8 | LOWER POND | 6 | 1.09 | 0.48 | 29400 | 76000 |
| 9 | HUD LDG RC | 1 | 0.07 | 0.06 | 18400 | 52000 |
| 10 | HUD LDG LP | 1 | 0.06 | 0.07 | 18600 | 52000 |
| 11 | CARNEROS | 4 | 0.15 | <0.03 | 18800 | 51800 |
| 12 | STRUVE RD | 3 | <0.05 | 0.31 | 19000 | 51900 |
| 13 | BACK BENNETT | 1 | <0.05 | 0.05 | 18000 | 51100 |
| 14 | EAST BENNETT | --- | --- | --- | --- | --- |
| 15 | JETTY | 2 | <0.05 | 0.06 | 18400 | 50200 |
| 16 | ML RD N | 3 | 0.06 | 0.08 | 17600 | 49700 |
| 17 | ML RD S | 2 | 0.06 | 0.06 | 19600 | 53800 |
| 18 | N POTRERO | 34 | 0.42 | 0.42 | 7200 | 22000 |
| 19 | S POTRERO | 64 | 0.60 | 0.56 | 1350 | 5330 |
| 20 | MONT DUNE WY | 85 | 0.14 | 0.08 | 4000 | 14300 |
| 21 | SAL RVR LGN | 101 | <0.05 | <0.03 | 2250 | 8370 |
| 22 | SAL RVR BRG | 106 | <0.05 | <0.03 | 1200 | 4750 |
| 23 | MORO COJO | 3 | <0.05 | 0.04 | 23400 | 59700 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

WATER SAMPLES FOR ELKHORN SLOUGH FOUNDATION

SAMPLE COLLECTION DATE: December 20, 1993

(Units in mg/l unless otherwise noted.)

| | LOCATION | NO3 | NH3-N | ORTHO PO4-P | CHLORIDE | ELECTRICAL CONDUCTIVITY umhos/cm |
|---|---|---|---|---|---|---|
| 1 | SKIPPERS | 2 | <0.05 | <0.03 | 19200 | 48100 |
| 2 | RES BRG | 3 | <0.05 | 0.04 | 19000 | 48400 |
| 3 | S MARSH | 2 | <0.05 | 0.05 | 18600 | 48600 |
| 4 | N MARSH | 2 | 0.40 | <0.03 | 18000 | 48200 |
| 5 | KIRBY | 1 | 0.08 | 0.04 | 18200 | 47400 |
| 6 | UPPER POND | 5 | 0.17 | 0.04 | 16200 | 44000 |
| 7 | MID POND | 4 | 0.90 | 0.14 | 12200 | 34900 |
| 8 | LOWER POND | 3 | 1.20 | 0.35 | 4200 | 14550 |
| 9 | HUD LDG RC | 1 | <0.05 | 0.08 | 17800 | 46700 |
| 10 | HUD LDG LP | 2 | <0.05 | 0.06 | 17800 | 46800 |
| 11 | CARNEROS | 2 | 0.15 | <0.03 | 17200 | 44800 |
| 12 | STRUVE RD | 4 | 0.12 | 0.63 | 16200 | 42500 |
| 13 | BACK BENNETT | 1 | 0.07 | 0.10 | 18900 | 47900 |
| 14 | EAST BENNETT | 2 | <0.05 | 0.05 | 17200 | 45500 |
| 15 | JETTY | 2 | 0.06 | 0.06 | 18600 | 48400 |
| 16 | ML RD N | 2 | 0.06 | 0.06 | 24600 | 47800 |
| 17 | ML RD S | 4 | 0.06 | 0.07 | 18000 | 46900 |
| 18 | N POTRERO | 20 | 0.05 | 0.16 | 11000 | 31700 |
| 19 | S POTRERO | 43 | 0.06 | 0.16 | 5200 | 16100 |
| 20 | MONT DUNE WY | 38 | <0.05 | 0.04 | 8000 | 16300 |
| 21 | SAL RVR LGN | 42 | <0.05 | <0.03 | 4400 | 14900 |
| 22 | SAL RVR BRG | 47 | <0.05 | 0.07 | 4600 | 16200 |
| 23 | MORO COJO | 1 | <0.05 | 0.30 | 12700 | 36500 |

MONTEREY COUNTY
WATER RESOURCES AGENCY
P.O. BOX 930
SALINAS, CA 93902-0930

# APPENDIX F
# MONTGOMERY WATSON TECHNICAL MEMORANDA

# M E M O R A N D U M

MONTGOMERY WATSON

| | | | |
|---|---|---|---|
| **To:** | Martin Feeney<br>Fugro West, Inc. | **Date:** | October 12, 1995 |
| **From:** | Abdul Khan | **Reference:** | 3809.0011 |
| **Subject:** | Response to PVWMA Comments on North County Study | | |

## RESPONSE TO COMMENTS ON INFORMATION IN APPENDIX G

**Comment:**

" It is not clear to me how water duty return flows were determined. Taking berries, for example, the assumed return flow is 20% for Pajaro, 23% for Springfield, 30% for Highlands South, and 19% for Highlands North. Extraction is a uniform 1.8 af/ac/yr. This means that the calculated net depletion is 1.4, 1.4, 1.3, and 1.5 af/ac/yr, respectively, for the four subareas. To me, this approach seems flawed. My sense is that extraction is even more variable among the subareas than return flow and, further, that the percentage of return flow in any subarea is largely a function of the rate in that subarea."

**Response:**

1. The information used in the North County Study was obtained through the integration of two models: Pajaro Valley IGSM and Salinas Valley IGSM.

2. The Pajaro Valley IGSM includes Pajaro, Springfield, and Highlands North subareas. Based on the modeling results and studies, irrigation efficiency for these subareas was estimated to be approximately 80%. As noted in the comment, for berry, the return flows for Pajaro, Springfield, and Highlands North were close to 20%. The irrigation efficiencies were assumed to vary slightly for the different subareas depending on climatic conditions, soils, and crop types.

3. Similarly, for Salinas Valley IGSM, the irrigation efficiency for the different model subregions was estimated to be approximately 70%, based on the modeling results and studies. The Salinas Valley IGSM includes Highland South, for which, the return flow was estimated to be 30%. Highlands South falls in Eastside subregion in Salinas Valley IGSM. The estimated irrigation efficiency used for Highlands South is an

average value for the Eastside subregion, a much larger area than Highlands South. It is likely that actual irrigation efficiency and therefore, return flow for Highlands South may have been overestimated because more detailed site specific information on crop types, irrigation practices, and soil conditions were not used. It is possible to model this subarea in a more detailed way to obtain more representative results. It will require a considerable amount of time and effort to convert the site specific information into model input data for Salinas Valley IGSM.

4. It is important to note, however, that the total average annual recharge in North County Study Area is about 13,600 acre-feet and higher return flow estimate in Highlands South may lead to a potential overestimation of recharge by only about 200 acre-feet per year. This represents only 1.5% of total recharge and therefore, does not significantly impact the water budget in North County Study area.

# MEMORANDUM

MONTGOMERY WATSON

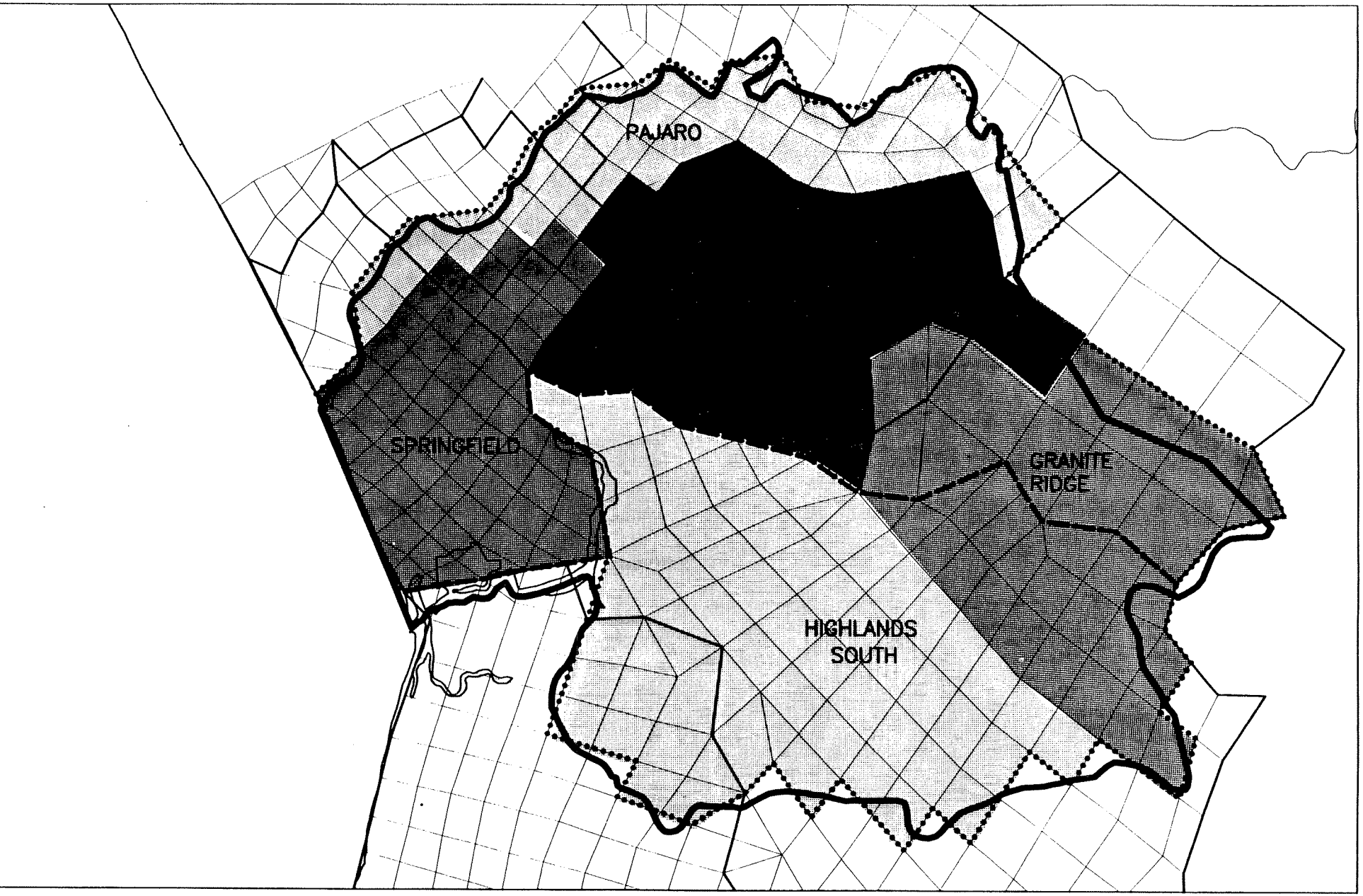
| | | | |
|---|---|---|---|
| **To:** | Martin Feeney | **Date:** | August 1, 1995 |
| **From:** | Larry Davis<br>Young Yoon | **Client:** | Fugro |
| **Subject:** | North County Area Water Budget | **File:** | 3809.0010/3.1 |

**Technical Memorandum No. 1**

Montgomery Watson's Salinas Valley IGSM (Montgomery Watson, 1994), and Pajaro Valley IGSM (JMM, 1990), together cover the North County Study Area. The Salinas Valley model covers the portion of the North County Study Area lying to the south of Elkhorn Slough and the Pajaro Valley model covers the northerly portion of the North County Study Area. In previous studies, the two models were run separately and it was assumed that there was very limited movement of groundwater at the boundaries of the two models in the North County area. Consequently, a "No Flow" boundary condition was established for the boundaries of the two models.

For this investigation, the two models have been linked in order to simulate potential groundwater movement across the boundaries of the two models. Figure 1 shows the boundary of the North County area, the model grid and the model subareas comprising the North County area. Since the model grid was not modified, the model approximation of the North County area is not precisely coincidental with the North County area boundary. The model area representing the North County area is 54,580 acres.

Based on Fugro's geologic investigation of the North County area, Montgomery Watson made refinements to the model, as necessary, to better reflect the stratigraphy of the aquifer system. Fugro provided Montgomery Watson with data indicating the depth to bedrock at each model node that lies within the North County area. Using this data, the aquifer units as represented in the model, were adjusted to provide continuity between the Pajaro and Salinas portions of the model. Land use and crop information for Salinas Valley IGSM were developed on the basis of DWR land use maps and crop surveys, and USBR GIS. Land use and crop information for the Pajaro Valley IGSM were developed on the basis of DWR land use maps and crop surveys.




Map showing No. County Study Area, Model Grid, and Subarea Boundaries

Fig. 1

The hydrologic period of October 1970 through September 1992 was used in this analysis. The model was recalibrated for this period. Model recalibration focused on the North County area and especially along the boundaries of the two linked models.

A summary of water budget information generated by the model is shown in Table 1. As can be seen by Table 1, all subareas are in an overdraft condition with a total average annual decline in storage of 5230 AF/Yr. Agricultural pumping was estimated using the DWR consumptive use method. Using that method, monthly agricultural pumping is estimated based on crop types, crop potential ET, precipitation, soil moisture requirements, and irrigation efficiency. Rural pumping was estimated based on per capita estimates (e.g. in the Pajaro model, 152 gal. per capita per day was used). Recharge to the subarea is from five sources--precipitation, agricultural return flows from applied water, return flows from indoor water use (septic tank effluent), streams and boundary inflows. In Table 1, recharge from agricultural returns flows and septic tank effluent are lumped together. While there is positive boundary recharge to the Springfield subarea, it should be recognized that two of those components are of poor quality. Seawater intrusion into the Springfield subarea and leakance from Elkhorn Slough pose quality problems. Seawater intrusion into the Springfield subarea is estimated to be about 750 AF/YR and leakance from Elkhorn Slough is estimated to be about 2570 AF/Yr. and is accounted for in the Springfield subarea boundary recharge. An additional 1090 AF/YR of Elkhorn Slough leakance is estimated to occur outside the model boundary but within the North County area boundary which follows Elkhorn Slough. As can be seen by Figure 1, the model boundary lies just to the north of Elkhorn Slough between the ocean and the junction of the Springfield and Eastside subareas.

The model was used to estimate the sustainable yield of the North County area and the results are shown in Table 2. For purposes of this report, sustainable yield is defined as the quantity of annual pumping that can occur over the period 1970 - 1992 that would result in about the same groundwater level at the beginning and end of the period of analysis. The 1992 groundwater levels were used as the beginning levels. Zero pumping is indicated for the Springfield subarea due to its proximity to the ocean. Montgomery Watson's previous studies for the Pajaro Valley Water Management Agency (Agency) also concluded that no pumping can be allowed in the Springfield subarea if the Agency is to meet its Basin Management Plan goals. Figure 2 shows the mean groundwater levels in each subarea for the period 1970 - 1992.

The quantity of water that percolates to the groundwater table is dependent on land use. In agricultural areas, rainfall and applied irrigation water available for recharge is depleted due to actual evapotranspiration caused by crop water use and soil evaporation, direct runoff of rainfall, and surface water return flow such as tailwater and field runoff. In urban areas, rainfall and applied water is depleted by actual evapotranspiration of landscape irrigation, direct runoff of rainfall which is much greater than in agricultural areas due to a higher percentage of impervious area. Deep percolation in urban areas that are sewered is further depleted if the indoor water use is

**TABLE 1**

**ANNUAL GROUNDWATER BUDGET**
**(October 1970 to September 1992)**

| Model Subarea[1] | Area (Acres) | Inflow (AF/YR) | | | | Outflow (AF/YR) | Change in Storage (AF/YR) |
|---|---|---|---|---|---|---|---|
| | | Deep Percolation | Recharge from Rain | Recharge from Streams | Recharge from Boundary[2] | Pumping | |
| Highlands South | 16,270 | 4,260 | 2,034 | 0 | -110 | 5,020 | -870 |
| Granite Ridge | 11,820 | 1,720 | 1,371 | -230 | -2,230 | 610 | -1,350 |
| Highlands North | 11,480 | 2,670 | 1,722 | +210 | -320 | 4,780 | -2,220 |
| Pajaro | 7,020 | 2,260 | 541 | - | +6,070[3] | 9,030 | -700 |
| Springfield | 7,990 | 2,670 | 1,132 | -160 | +4,070[4] | 6,670 | -90 |
| **Totals** | **54,580** | **13,580** | **6,800** | **-180** | **+7,480** | **26,110** | **-5,230** |

[1] See Figure 1 for location.

[2] Positive number indicates groundwater flow into the subarea.

[3] Includes Pajaro RIver recharge of 4,254 AF/YR.

[4] Includes seawater intruison of 750 AF/YR and Elkhorn SLough leakance of 2,570 AF/YR.

**TABLE 2**

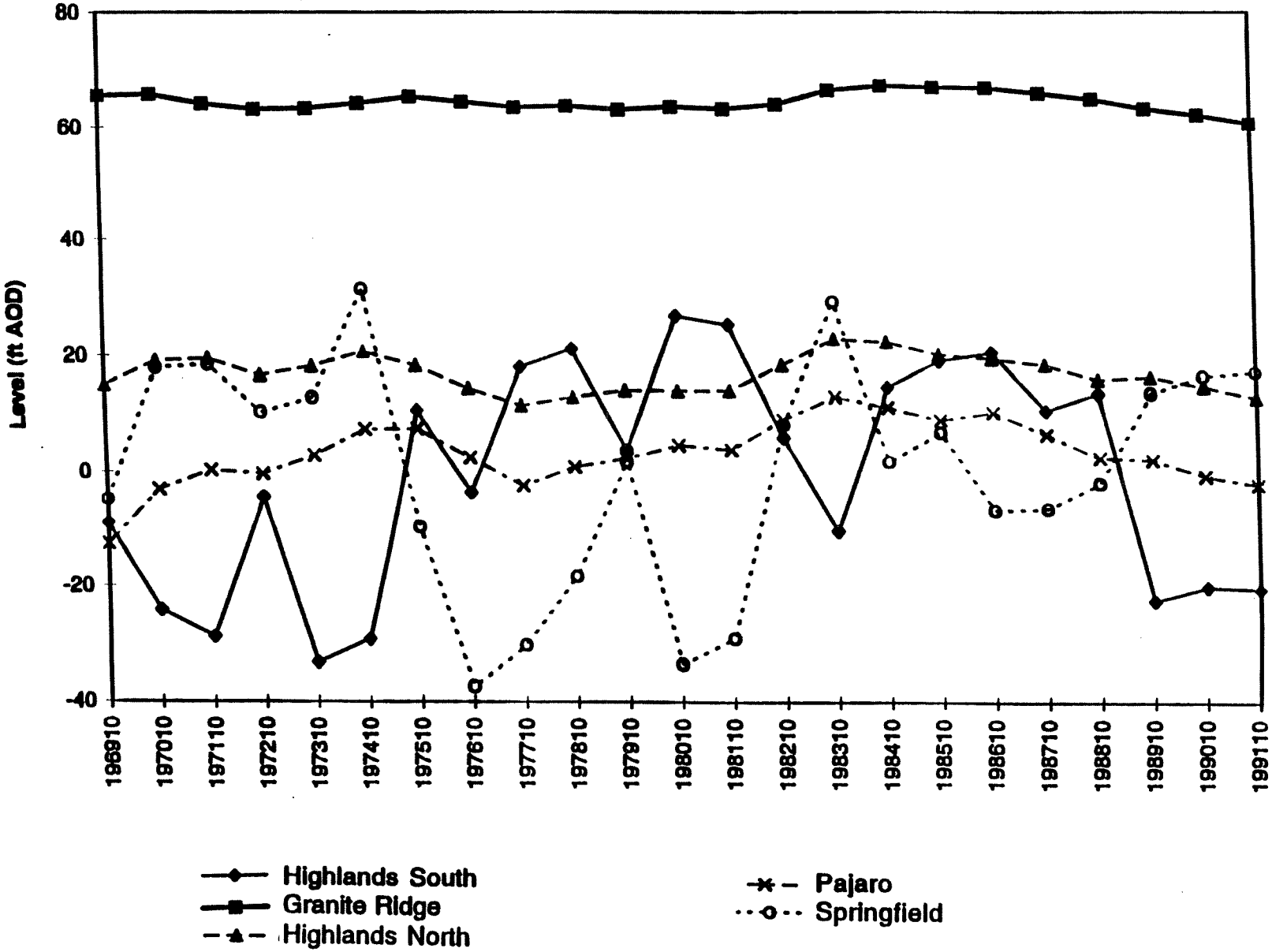
**SUSTAINABLE YIELD[1]**
**(AF/YR)**

| Subarea | Historic Pumping (AF/YR) | Sustainable Yield (AF/YR) |
|---|---|---|
| Highlands South | 5,020 | 4,390 |
| Grainte Ridge | 610 | 610 |
| Highlands North | 4,780 | 2,920 |
| Pajaro | 9,030 | 6,490 |
| Springfield | 6,670 | 0 |
| **Total** | **26,110** | **14,410** |

[1] Sustainable yield is defined as the quantity of annual pumping that can occur over the period 1970-1992 that would result in approximately the same groundwater level at the beginning and end of the period of analysis. Seawater intrusion is not allowed which reduces pumping in the Springfield subarea to zero.

**Figure 2**

**Mean Groundwater Levels by Subarea**



not returned to groundwater. In undeveloped areas, water available for recharge from rainfall is depleted by actual evapotranspiration of native vegetation and direct runoff of rainfall. The recharge rates for different land use categories for the subareas in the North County are furnished in Table 3.

**TABLE 3**

**DEEP PERCOLATION FOR DIFFERENT LAND USE CATEGORIES (Inches/YR)**

| Model Subarea[1] | Land Use Category | | |
|---|---|---|---|
| | Agricultural | Urban | Undeveloped |
| Highlands South | 9.9 | 12.7 | 1.5 |
| Granite Ridge | 9.6 | 14.1 | 1.4 |
| Highlands North | 5.5 | 15.2 | 1.8 |
| Pajaro | 4.3 | 12.6 | 0.9 |
| Springfield | 4.0 | 17.3 | 1.7 |

[1] See Figure 1 for location.

## REFERENCES

James M. Montgomery Engineers, 1990. Pajaro Valley Water Management and Augmentation Study: Pajaro Valley Hydrologic and Water Quality Model. Prepared for the U.S. Bureau of Reclamation.

Montgomery Watson, 1994. Salinas River Basin Water Resources Management Plan, Task 1.09: Salinas Valley Groundwater Flow and Quality Model Report. Prepared for Monterey County Water Resources Agency.

# MEMORANDUM

**MONTGOMERY WATSON**

To: Martin Feeney
Date: August 1, 1995

From: Larry Davis
Young Yoon
Client: Fugro

File No.: 3809.0010/3.1

Subject: North County Area Nitrogen Loading Factors

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Technical Memorandum No. 2

The purpose of this Technical Memorandum is to provide nitrogen loading factors for various land use categories. These factors can be used to assess the water quality impacts of water percolating down to the saturated zone underlying various types of land use.

The Pajaro Valley IGSM has a water quality component and that component was used in a previous study to simulate nitrogen as nitrate ($NO_3$), concentrations in Pajaro Valley groundwater. The model simulates the occurrence of nitrogen in the soil zone, unsaturated zone, and the groundwater system. Nitrogen loading factors for the North County Study Area are based in that work.

Two major sources of nitrogen loading in the North County area are from septic tank operations and agricultural activities. Nitrogen loading from septic tank operations can be estimated by using 10 lbs./per capita per year. This is the amount of $NO_3$ that would be added to groundwater from septic tank leachate. This loading rate is based on a per capita use of 152 gal/capita/day with 55% of the total use being indoor use. The septic tank effluent concentration is assumed to be 40 mg/l as $NO_3$. For purposes of the GIS, the urban or rural land use designation with the associated density of development can be used with the above loading factor. If landscape fertilization is to be considered for urban or rural land uses, an additional 17 lbs./acre should be allowed. This value is associated with lawn fertilization.

Fertilization application varies substantially by crop type. The nitrogen loading factors by major crop type are shown in Table 1.

**TABLE 1**
**Nitrogen Loading by Crop Type**

| Crop | Loading Rate Lbs./Acre/Year |
|---|---|
| Truck Crops | 69 |
| Berries | 67 |
| Field Crops | 38 |
| Flowers/Nursery | 83 |
| Fruits/Nuts | 22 |
| Pasture | 15 |
| Vineyard | 21 |

The loading rates shown in Table 1 are the amounts of $NO_3$ added to groundwater after applied water percolates to the saturated zone. The quantities of fertilizer applied to crops can be as high as 500 lbs./acre/year as is the case of celery. Truck and berry crops average about 180 lbs./acre/year.

Other sources of nitrogen loading include recharge from streams and Elkhorn Slough. In the Pajaro Study, a value of 10 lbs./AF was estimated for stream recharge. It is recommended this value be used to account for nitrogen loading resulting from stream recharge.

# APPENDIX G
# WATER DEMAND SUPPORTING DOCUMENTS

## Build-out Analysis

**Approach.** This appendix contains spreadsheets detailing the build-out analysis described in the report. The County Planning and Building Inspection Department (Planning) conducted a build-out analysis of the area. These two studies used different databases to conduct their respective analyses. Fugro's analysis is based upon a parcel-by-parcel determination of potential development. Planning's approach divided gross acreage by density. The latter is less precise.

**Existing Units.** A serious issue arose when the two studies had a wide variance in the number of *existing* dwelling units. A small variance would be allowable given the different approaches taken to ascertaining the number of units. This would come from varying geographies, data-entry errors, or improper counts in the field. However, the number varied by over 1,500 dwelling units between the two studies. Fugro's numbers were based upon assessor's computer data. Planning used an updated 1981 tabular study. Planning also had dot maps representing finaled building permits issued by parcel. Since the basis for the Planning 1981 tabular study was unclear, it was decided to create a union of hard data using the dot maps and the assessor files. Comparing the union of this hard data and Planning's 1981 study, Fugro found that there was only a 117 unit difference. Fugro and Planning agreed that this was an acceptable difference given the long span of time over which data was collected and the inherent inaccuracies of analyzing uses on a large number of parcels. The two parties ultimately agreed that the union of hard data was a reasonable representation of existing units in the study area.

Fugro created a set of maps (not included in this report) that analyzed the differences in the two sets of existing dwelling units. The following describes the maps, and the adjustments made to normalize the existing unit count.

Map 1: Dwelling Units by Parcel. This map is the result of digitizing the County's "DOT" map. The map shows dwelling units by color-code (colors = # of DU per parcel).

Map 2: Difference in Observed and Calculated

Map 3: Adjusted Union. This map is a compilation of the Assessor's data digitized originally and the DOT data supplied by Planning. This map shows 9,318 dwelling units, which is 117 units less than Planning's figures. Errors in tabulation, entry, or actual units not in one of the databases would account for this small difference (1%). The modifications to the data are described below:

| | | |
|---|---|---|
| DOT | 8,024: | County dot map plus list of finaled permits (10/92 through 11/94) entered by Fugro into GIS. Likelihood of very few errors in entry. |
| Assessors | 7,540 | Assessor's land use code in GIS data. Fugro made several assumptions about multi-family and mobile home parks. |

| | | |
|---|---|---|
| | | (Assessor's list these in ranges, e.g. 16 - 30 unit apartments). |
| Union | 9,531 | Union of the DOT and Assessor's data. Equals the highest number when parcels show different numbers. |
| **Adjusted Union** | **9,318** | Corrects the Union. DOT data is superior for multi-family and mobile home. Assessor's data appears superior for single family dwellings. Coastal = 4,218; Non-Coastal = 5,100. |
| Planning's estimate | 9,686 | From Planning's build-out spreadsheets. Originally assumed to come from DOT map, but variance from Planning's spreadsheets (1,662) is far greater than can be accounted for by entry errors. |
| **Adjusted Planning** | **9,435** | Removes 251 unit mobile home park located west of Oak Hills off Highway 156 (outside of study area). Coastal = 4,359; Non-Coastal = 5,073. |
| Difference: | 117 | County number is higher. Fugro used the Adjusted Union for it's build-out analysis. |

**Build-out**

1. **Existing Dwelling Units**. As described above, the Fugro build-out used 9,318 existing dwelling units.

2. **Potential Dwelling Units**. Fugro's approach to determining how many more units could be developed in the North County planning area involved a number of steps.[1] The analysis was done on a computer-based Geographic Information System (GIS).

    - All parcels in the area were digitized onto the GIS. Information added to the GIS database included parcel size, zoning, and land use information.

    - Existing dwelling units were digitized as described above.

[1] County build-out was created by dividing total acreage in a land use category (within a USGS subwatershed) by the allowable density. This does not account for parcels developed that are smaller than allowable density, i.e., undersize lots. It also over-counts parcels that exceed minimum lot size, but are too small for resubdivision. Furthermore, if the number of existing units exceed the number that would be allowed by dividing the area by density, the number of units over the allowable amount are shown as a negative number. This number reduces the total build-out. This is an inability to account for sub-standard lots. These negative numbers should at least be converted to zero.

- A model was developed for the GIS that would compute the allowable number of future dwelling units that could be built in the planning area. The process for the model was as follows. Each parcel was individually analyzed by the computer.

    * Undeveloped parcels. If the parcel was zoned residential (or was allowed dwellings), the model determined the allowable density of units based upon the parcel's zoning. The allowable density was recomputed as a minimum lot size (2 units/acre = 1 acre minimum lot size). The parcel's total acreage was divided by the minimum lot size. The resulting number was converted to an integer (the remainder acreage--not enough for another lot--was discarded so it would not accumulate, and thus give a false high for allowable units).

    * Developed or partially developed parcels. If a parcel had a dwelling unit (or units), the model subtracted the minimum lot size from the parcel's acreage for each unit. Any land remaining was then analyzed as an undeveloped parcel (as described above). If the remainder acreage was not enough for another unit, it was discarded. If additional units could be constructed, they were added to the future dwelling units count.

- This data was kept discrete by zoning type and by coastal/non-coastal distinction.

- The coastal parcels (those within the LCP boundary) were re-analyzed in accordance with current zoning densities. There is a county requirement that determined a specific number of units that could be built. The number of units, according to County Planning, is as follows: "unit numbers are based on 1994 levels plus vacant lots (assuming one unit could be developed on the vacant lot). The 667 units were remaining to be allocated for development. Since these unit levels were based on 50% of plan densities, unlike the non-coastal area, [County Planning] Staff assumes no further reduction is necessary to arrive at the most probable build-out level."

**Issues**. Several assumptions made in the build-out should be discussed in order to understand potential weaknesses.

- **Future Subdivisions**. The model accounts for parcels that can be subdivided. However, it does not account for the possibility of lot line adjustments. These can occur if numerous owners agree to reform their properties to maximize the development potential. The implicit assumption in the model is that this will not occur. The argument in support of this assumption is that in reality this will only occur on occasion, given the considerable transaction costs involved. A modification can be made to the model to allow for some amount of lot line adjustments. Remainder portions of parcels (too small for an extra lot) can be added back into the overall acreage. This would be most effective if the remainder acreage had to be fairly close to the size of a legal lot to qualify for adding back in (example: a 1.8 acre remainder would be added back in a two acre minimum lot size area, but not something so small as .5 acres). The cutoff could be calibrated based upon the Planning Department's experience.

**Development Constraints**. Many areas in the planning area have physical constraints to development. These include the presence of wetlands, endangered species, steep slopes or pre-existing non-conforming land uses. The assumption implicit in the model is that all parcels can be developed. The argument for this is that, in spite of natural constraints in the North County, most parcels have an area free of constraints that is at least large enough to support a dwelling. There are likely a few parcels that are completely "unbuildable".

North Monterey County
Buildout Potential, by post-subdivided acreage
October 15, 1995

Scenario 1: Normal Buildout, based on zoning, with coastal restriction
Corrected Version

A. COASTAL — Coastal Development Potential (DU): 667

| | Existing | | | Potential | | | Buildout | | |
|---|---|---|---|---|---|---|---|---|---|
| *Subarea* | *< 1 ac* | *1-10 ac* | *> 10 ac* | *< 1 ac* | *1-10 ac* | *>10 ac* | *<1 ac* | *1-10 ac* | *>10 ac* |
| Pajaro | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 0 |
| Highlands North | 644 | 512 | 59 | 129 | 24 | 20 | 773 | 536 | 80 |
| Highlands South | 1,138 | 1,041 | 110 | 301 | 48 | 21 | 1,438 | 1,089 | 131 |
| Springfield Terrace | 332 | 179 | 30 | 88 | 8 | 6 | 420 | 187 | 35 |
| Granite Ridge | 37 | 116 | 20 | 1 | 17 | 5 | 38 | 133 | 25 |
| TOTAL | 2,150 | 1,850 | 218 | 519 | 96 | 52 | 2,669 | 1,946 | 271 |
| Actual Totals | 2,150 | 1,850 | 218 | 2,758 | 513 | 276 | 4,908 | 2,363 | 494 |

B. NON-COASTAL

| | Existing | | | Potential | | | Buildout | | |
|---|---|---|---|---|---|---|---|---|---|
| *Subarea* | *< 1 ac* | *1-10 ac* | *> 10 ac* | *< 1 ac* | *1-10 ac* | *>10 ac* | *<1 ac* | *1-10 ac* | *>10 ac* |
| Pajaro | 675 | 165 | 40 | 7 | 39 | 64 | 682 | 204 | 105 |
| Highlands North | 260 | 601 | 50 | 30 | 436 | 20 | 290 | 1,037 | 69 |
| Highlands South | 1,027 | 897 | 30 | 45 | 513 | -15 | 1,072 | 1,410 | 15 |
| Springfield Terrace | 59 | 18 | 4 | 2 | 1 | 7 | 60 | 19 | 11 |
| Granite Ridge | 460 | 765 | 50 | 21 | 285 | 48 | 481 | 1,050 | 98 |
| TOTAL | 2,481 | 2,445 | 174 | 104 | 1,274 | 124 | 2,585 | 3,719 | 298 |
| Actual Totals | 2,481 | 2,445 | 174 | 104 | 1,274 | 124 | 2,585 | 3,719 | 298 |

C. TOTAL

| | Existing | | | Potential | | | Buildout | | |
|---|---|---|---|---|---|---|---|---|---|
| *Subarea* | *< 1 ac* | *1-10 ac* | *> 10 ac* | *< 1 ac* | *1-10 ac* | *>10 ac* | *<1 ac* | *1-10 ac* | *>10 ac* |
| Pajaro | 675 | 166 | 40 | 7 | 40 | 65 | 682 | 206 | 105 |
| Highlands North | 904 | 1,113 | 109 | 159 | 460 | 40 | 1,062 | 1,573 | 149 |
| Highlands South | 2,165 | 1,938 | 140 | 346 | 561 | 6 | 2,510 | 2,499 | 145 |
| Springfield Terrace | 391 | 197 | 33 | 90 | 9 | 13 | 481 | 206 | 46 |
| Granite Ridge | 497 | 881 | 70 | 22 | 302 | 53 | 519 | 1,182 | 123 |
| TOTAL | 4,631 | 4,295 | 392 | 623 | 1,370 | 176 | 5,254 | 5,665 | 569 |
| Actual Totals | 4,631 | 4,295 | 392 | 2,862 | 1,787 | 400 | 7,493 | 6,082 | 792 |

# Ground Water Demand
## Summary of Total

| Comparison -- Current and Buildout Demand | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| **Summary -- Current Demand** | | | | | | **FUGRO** | **M-W** |
| Subarea | Agriculture | Residential | Other | **Total** | **Supply** | **Result** | |
| Pajaro | 7,979 | 303 | 32 | **8,315** | 4,860 | -3,455 | -2,451 |
| Highlands North | 3,190 | 818 | 9 | **4,016** | 1,932 | -2,084 | -1,900 |
| Highlands South | 2,700 | 1,547 | 36 | **4,283** | 2,034 | -2,249 | -760 |
| Springfield Terrace | 5,370 | 226 | 111 | **5,707** | 972 | -4,735 | -4,160 |
| Granite Ridge | 456 | 567 | 21 | **1,044** | 1,141 | 97 | 880 |
| | 19,695 | 3,461 | 209 | **23,365** | **10,939** | **-12,426** | **-8,391** |
| | | | | | | | |
| | | | | | | | |
| **Summary -- Buildout Demand** | | | | | | **FUGRO** | |
| Subarea | Agriculture | Residential | Other | **Total** | **Supply** | **Result** | |
| Pajaro | 7,979 | 415 | 32 | **8,427** | 4,860 | -3,567 | |
| Highlands North | 5,756 | 1,479 | 9 | **7,243** | 1,932 | -5,311 | |
| Highlands South | 7,917 | 2,484 | 36 | **10,437** | 2,034 | -8,403 | |
| Springfield Terrace | 5,370 | 340 | 111 | **5,821** | 972 | -4,849 | |
| Granite Ridge | 456 | 943 | 21 | **1,420** | 1,141 | -279 | |
| | 27,478 | 5,661 | 209 | **33,348** | **10,939** | **-22,409** | |
| | | | | | | | |

# Ground Water Demand (NET)
# North County Monterey

| Ground Water Demand (NET) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Current | Water Duty | | | Current | Potential | | Build-out |
| Pajaro | DU/Acres | Extraction | Return Flow | Depletion | Demand AFY | DU/Acres | Demand AFY | Demand AFY |
| Uncoded | | 0.8 | 50% | 0.4 | 0 | | 0 | 0 |
| Urban Residential (<1 ac/du) | 675 du | 0.7 | 55% | 0.3 | 197 | 7 du | 2 | 204 |
| Suburban Residential (1-10 ac/du) | 166 du | 0.8 | 50% | 0.4 | 66 | 40 du | 16 | 106 |
| Rural Residential (>10 ac/du) | 40 du | 1.7 | 40% | 1.0 | 40 | 65 du | 64 | 105 |
| Commercial/Office | 28 | 1.0 | 60% | 0.4 | 11 | | 0 | 11 |
| Industrial | 52 | 1.0 | 60% | 0.4 | 21 | | 0 | 21 |
| Truck Crops | 3,702 | 1.8 | 20% | 1.4 | 5,331 | | 0 | 5,331 |
| Berries | 1,316 | 1.8 | 20% | 1.4 | 1,895 | | 0 | 1,895 |
| Field Crops | 114 | 1.2 | 20% | 1.0 | 110 | | 0 | 110 |
| Flowers/Nursery/mushrooms | 101 | 2.0 | 20% | 1.6 | 161 | | 0 | 161 |
| Fruits/Nuts | 297 | 1.2 | 20% | 1.0 | 285 | | 0 | 285 |
| Pasture | 0 | 2.0 | 20% | 1.6 | 0 | | 0 | 0 |
| Vineyard | 0 | 1.2 | 20% | 1.0 | 0 | | 0 | 0 |
| Grazing/Open | 729 | 0.0 | 0% | 0.0 | 0 | | 0 | 0 |
| Other Agriculture | 206 | 1.2 | 20% | 1.0 | 198 | | 0 | 198 |
| Recreation Open Space | 0 | 1.2 | 20% | 1.0 | 0 | | 0 | 0 |
| Conservation Open Space | 0 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Public Facilities | 26 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Utilities/Common | 3 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| | **7,455** | | | | **8,315** | | | **8,427** |

# Ground Water Demand (NET)
## North County Monterey

| Ground Water Demand (NET) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Current | Water Duty | | | Current | Potential | | Build-out |
| Highlands North | DU/Acres | Extraction | Return Flow | Depletion | Demand AFY | DU/Acres | Demand AFY | Demand AFY |
| Uncoded | | 0.0 | 0% | 0 | 0 | | 0 | 0 |
| Urban Residential (<1 ac/du) | 904 du | 0.7 | 55% | 0.3 | 264 | 162 du | 47 | 426 |
| Suburban Residential (1-10 ac/du) | 1,113 du | 0.8 | 50% | 0.4 | 445 | 459 du | 184 | 904 |
| Rural Residential (>10 ac/du) | 109 du | 1.7 | 40% | 1.0 | 108 | 40 du | 40 | 148 |
| Commercial/Office | 21 | 1.0 | 60% | 0.4 | 9 | | 0 | 9 |
| Industrial | 0 | 1.0 | 60% | 0.4 | 0 | | 0 | 0 |
| Truck Crops | 523 | 1.8 | 19% | 1.5 | 763 | | 0 | 763 |
| Berries | 761 | 1.8 | 19% | 1.5 | 1,109 | 2,566 | 3741 | 3,675 |
| Field Crops | 58 | 1.2 | 19% | 1.0 | 56 | | 0 | 56 |
| Flowers/Nursery/mushrooms | 527 | 2.0 | 19% | 1.6 | 854 | | 0 | 854 |
| Fruits/Nuts | 138 | 1.2 | 19% | 1.0 | 135 | | 0 | 135 |
| Pasture | 127 | 2.0 | 19% | 1.6 | 206 | | 0 | 206 |
| Vineyard | 0 | 1.2 | 19% | 1.0 | 0 | | 0 | 0 |
| Grazing/Open | 6,766 | 0.0 | 0% | 0.0 | 0 | | 0 | 0 |
| Other Agriculture | 69 | 1.2 | 19% | 1.0 | 67 | | 0 | 67 |
| Recreation Open Space | 0 | 1.2 | 19% | 1.0 | 0 | | 0 | 0 |
| Conservation Open Space | 2 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Public Facilities | 18 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Utilities/Common | 12 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| | **11,149** | | | | **4,016** | | | **7,243** |

# Ground Water Demand (NET)
## North County Monterey

| Ground Water Demand (NET) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Current | Water Duty | | | Current | Potential | | Build-out |
| Highlands South | DU/Acres | Extraction | Return Flow | Depletion | Demand AFY | DU/Acres | Demand AFY | Demand AFY |
| Uncoded | | 0.0 | 0% | 0 | 0 | | 0 | 0 |
| Urban Residential (<1 ac/du) | 2,165 du | 0.7 | 55% | 0.3 | 633 | 340 du | 99 | 973 |
| Suburban Residential (1-10 ac/du) | 1,938 du | 0.8 | 50% | 0.4 | 775 | 561 du | 224 | 1,336 |
| Rural Residential (>10 ac/du) | 140 du | 1.7 | 40% | 1.0 | 139 | 36 du | 36 | 175 |
| Commercial/Office | 85 | 1.0 | 60% | 0.4 | 34 | | 0 | 34 |
| Industrial | 5 | 1.0 | 60% | 0.4 | 2 | | 0 | 2 |
| Truck Crops | 241 | 1.8 | 30% | 1.3 | 303 | | 0 | 303 |
| Berries | 1,516 | 1.8 | 30% | 1.3 | 1,910 | 5,217 | 6573 | 7,127 |
| Field Crops | 224 | 1.2 | 30% | 0.8 | 189 | | 0 | 189 |
| Flowers/Nursery/mushrooms | 106 | 2.0 | 30% | 1.4 | 148 | | 0 | 148 |
| Fruits/Nuts | 6 | 1.2 | 30% | 0.8 | 5 | | 0 | 5 |
| Pasture | 41 | 2.0 | 30% | 1.4 | 58 | | 0 | 58 |
| Vineyard | 1 | 1.2 | 30% | 0.8 | 1 | | 0 | 1 |
| Grazing/Open | 9,602 | 0.0 | 0% | 0.0 | 0 | | 0 | 0 |
| Other Agriculture | 102 | 1.2 | 30% | 0.8 | 86 | | 0 | 86 |
| Recreation Open Space | 0 | 1.2 | 30% | 0.8 | 0 | | 0 | 0 |
| Conservation Open Space | 58 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Public Facilities | 125 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Utilities/Common | 37 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| | **16,393** | | | | **4,283** | | | **10,437** |

# Ground Water Demand (NET)
## North County Monterey

| Ground Water Demand (NET) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Current | Water Duty | | | Current | Potential | | Build-out |
| Springfield Terrace | DU/Acres | Extraction | Return Flow | Depletion | Demand AFY | DU/Acres | Demand AFY | Demand AFY |
| Uncoded | | 0.0 | 0% | 0 | 0 | | 0 | 0 |
| Urban Residential (<1 ac/du) | 391 du | 0.7 | 55% | 0.3 | 114 | 93 du | 27 | 207 |
| Suburban Residential (1-10 ac/du) | 197 du | 0.8 | 50% | 0.4 | 79 | 8 du | 3 | 87 |
| Rural Residential (>10 ac/du) | 33 du | 1.7 | 40% | 1.0 | 33 | 13 du | 13 | 46 |
| Commercial/Office | 12 | 1.0 | 60% | 0.4 | 5 | | 0 | 5 |
| Industrial | 0 | 1.0 | 60% | 0.4 | 0 | | 0 | 0 |
| Truck Crops | 2,810 | 1.8 | 23% | 1.4 | 3,894 | | 0 | 3,894 |
| Berries | 543 | 1.8 | 23% | 1.4 | 752 | | 0 | 752 |
| Field Crops | 77 | 1.2 | 23% | 0.9 | 71 | | 0 | 71 |
| Flowers/Nursery/mushrooms | 187 | 2.0 | 23% | 1.5 | 288 | | 0 | 288 |
| Fruits/Nuts | 7 | 1.2 | 23% | 0.9 | 7 | | 0 | 7 |
| Pasture | 155 | 2.0 | 23% | 1.5 | 239 | | 0 | 239 |
| Vineyard | 13 | 1.2 | 23% | 0.9 | 12 | | 0 | 12 |
| Grazing/Open | 3,204 | 0.0 | 0% | 0.0 | 0 | | 0 | 0 |
| Other Agriculture | 114 | 1.2 | 23% | 0.9 | 106 | | 0 | 106 |
| Recreation Open Space | 115 | 1.2 | 23% | 0.9 | 106 | | 0 | 106 |
| Conservation Open Space | 457 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Public Facilities | 49 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Utilities/Common | 0 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| | **8,366** | | | | **5,707** | | | **5,821** |

# Ground Water Demand (NET)
# North County Monterey

| Ground Water Demand (NET) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Current | Water Duty | | | Current | Potential | | Build-out |
| Granite Ridge | DU/Acres | Extraction | Return Flow | Depletion | Demand AFY | DU/Acres | Demand AFY | Demand AFY |
| Uncoded | | 0.0 | 0% | 0 | 0 | | 0 | 0 |
| Urban Residential (<1 ac/du) | 497 du | 0.7 | 55% | 0.3 | 145 | 22 du | 6 | 167 |
| Suburban Residential (1-10 ac/du) | 881 du | 0.8 | 50% | 0.4 | 352 | 302 du | 121 | 654 |
| Rural Residential (>10 ac/du) | 70 du | 1.7 | 40% | 1.0 | 69 | 52 du | 51 | 121 |
| Commercial/Office | 44 | 1.0 | 60% | 0.4 | 18 | | 0 | 18 |
| Industrial | 8 | 1.0 | 60% | 0.4 | 3 | | 0 | 3 |
| Truck Crops | 51 | 1.8 | 20% | 1.4 | 73 | | 0 | 73 |
| Berries | 71 | 1.8 | 20% | 1.4 | 102 | | 0 | 102 |
| Field Crops | 13 | 1.2 | 20% | 1.0 | 13 | | 0 | 13 |
| Flowers/Nursery/mushrooms | 124 | 2.0 | 20% | 1.6 | 198 | | 0 | 198 |
| Fruits/Nuts | 20 | 1.2 | 20% | 1.0 | 19 | | 0 | 19 |
| Pasture | 9 | 2.0 | 20% | 1.6 | 14 | | 0 | 14 |
| Vineyard | 0 | 1.2 | 20% | 1.0 | 0 | | 0 | 0 |
| Grazing/Open | 7,046 | 0.0 | 0% | 0.0 | 0 | | 0 | 0 |
| Other Agriculture | 40 | 1.2 | 20% | 1.0 | 38 | | 0 | 38 |
| Recreation Open Space | 0 | 1.2 | 20% | 1.0 | 0 | | 0 | 0 |
| Conservation Open Space | 2 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Public Facilities | 66 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| Utilities/Common | 6 | 0.0 | 0 | 0.0 | 0 | | 0 | 0 |
| | **8,947** | | | | **1,044** | | | **1,420** |

Nitrate Loading
North County Monterey

| Nitrate Loading | | | | | | |
|---|---|---|---|---|---|---|
| | Current | Loading Rates | Current | Potential | | Build-out |
| Pajaro | DU/Acres | Pounds | Nitrate Load | DU/Acres | Nitrate Load | Nitrate Load |
| Uncoded | | 0.0 | 0 | | | 0 |
| Urban Residential (<1 ac/du) | 675 du | 31.0 | 20,925 | 7 du | 217 | 21,142 |
| Suburban Residential (1-10 ac/du) | 166 du | 31.0 | 5,146 | 40 du | 1,240 | 6,386 |
| Rural Residential (>10 ac/du) | 40 du | 41.0 | 1,640 | 65 du | 2,665 | 4,305 |
| Commercial/Office | 28 | 0.0 | 0 | | | 0 |
| Industrial | 52 | 0.0 | 0 | | | 0 |
| Truck Crops | 3,702 | 69.0 | 255,434 | | | 255,434 |
| Berries | 1,316 | 67.0 | 88,164 | | | 88,164 |
| Field Crops | 114 | 38.0 | 4,338 | | | 4,338 |
| Flowers/Nursery/Mushrooms | 101 | 83.0 | 8,356 | | | 8,356 |
| Fruits/Nuts | 297 | 21.0 | 6,235 | | | 6,235 |
| Pasture | 0 | 0.0 | 0 | | | 0 |
| Vineyard | 0 | 21.0 | 0 | | | 0 |
| Grazing/Open | 729 | 0.0 | 0 | | | 0 |
| Other Agriculture | 206 | 0.0 | 0 | | | 0 |
| Recreation Open Space | 0 | 0.0 | 0 | | | 0 |
| Conservation Open Space | 0 | 0.0 | 0 | | | 0 |
| Public Facilities | 26 | 0.0 | 0 | | | 0 |
| Utilities/Common | 3 | 0.0 | 0 | | | 0 |
| | | | 390,238 | | 4,122 | 394,360 |

Nitrate Loading
North County Monterey

| Nitrate Loading | | | | | | |
|---|---|---|---|---|---|---|
| | Current | Loading Rates | Current | Potential | | Build-out |
| Highlands North | DU/Acres | Pounds | Nitrate Load | DU/Acres | Nitrate Load | Nitrate Load |
| Uncoded | | 0.0 | 0 | | | 0 |
| Urban Residential (<1 ac/du) | 904 du | 31.0 | 28,024 | 162 du | 5,022 | 33,046 |
| Suburban Residential (1-10 ac/du) | 1,113 du | 31.0 | 34,503 | 459 du | 14,229 | 48,732 |
| Rural Residential (>10 ac/du) | 109 du | 41.0 | 4,469 | 40 du | 1,640 | 6,109 |
| Commercial/Office | 21 | 0.0 | 0 | | | 0 |
| Industrial | 0 | 0.0 | 0 | | | 0 |
| Truck Crops | 523 | 69.0 | 36,115 | | | 36,115 |
| Berries | 761 | 67.0 | 50,970 | 2,566 | 171,922 | 222,892 |
| Field Crops | 58 | 38.0 | 2,196 | | | 2,196 |
| Flowers/Nursery/mushrooms | 527 | 83.0 | 43,733 | | | 43,733 |
| Fruits/Nuts | 138 | 21.0 | 2,906 | | | 2,906 |
| Pasture | 127 | 0.0 | 0 | | | 0 |
| Vineyard | 0 | 21.0 | 0 | | | 0 |
| Grazing/Open | 6,766 | 0.0 | 0 | | | 0 |
| Other Agriculture | 69 | 0.0 | 0 | | | 0 |
| Recreation Open Space | 0 | 0.0 | 0 | | | 0 |
| Conservation Open Space | 2 | 0.0 | 0 | | | 0 |
| Public Facilities | 18 | 0.0 | 0 | | | 0 |
| Utilities/Common | 12 | 0.0 | 0 | | | 0 |
| | | | **202,916** | | **192,813** | **395,729** |

Nitrate Loading
North County Monterey

| Nitrate Loading | | | | | | |
|---|---|---|---|---|---|---|
| | Current | Loading Rates | Current | Potential | | Build-out |
| Highlands South | DU/Acres | Pounds | Nitrate Load | DU/Acres | Nitrate Load | Nitrate Load |
| Uncoded | | 0.0 | 0 | | | 0 |
| Urban Residential (<1 ac/du) | 2,165 du | 31.0 | 67,115 | 340 du | 10,540 | 77,655 |
| Suburban Residential (1-10 ac/du) | 1,938 du | 31.0 | 60,078 | 561 du | 17,391 | 77,469 |
| Rural Residential (>10 ac/du) | 140 du | 41.0 | 5,740 | 36 du | 1,476 | 7,216 |
| Commercial/Office | 85 | 0.0 | 0 | | | 0 |
| Industrial | 5 | 0.0 | 0 | | | 0 |
| Truck Crops | 241 | 69.0 | 16,605 | | | 16,605 |
| Berries | 1,516 | 67.0 | 101,579 | 5,217 | 349,539 | 451,118 |
| Field Crops | 224 | 38.0 | 8,528 | | | 8,528 |
| Flowers/Nursery/mushrooms | 106 | 83.0 | 8,783 | | | 8,783 |
| Fruits/Nuts | 6 | 21.0 | 122 | | | 122 |
| Pasture | 41 | 0.0 | 0 | | | 0 |
| Vineyard | 1 | 21.0 | 29 | | | 29 |
| Grazing/Open | 9,602 | 0.0 | 0 | | | 0 |
| Other Agriculture | 102 | 0.0 | 0 | | | 0 |
| Recreation Open Space | 0 | 0.0 | 0 | | | 0 |
| Conservation Open Space | 58 | 0.0 | 0 | | | 0 |
| Public Facilities | 125 | 0.0 | 0 | | | 0 |
| Utilities/Common | 37 | 0.0 | 0 | | | 0 |
| | | | **268,578** | | **378,946** | **647,524** |

Nitrate Loading
North County Monterey

| Nitrate Loading | | | | | | |
|---|---|---|---|---|---|---|
| | Current | Water Duty | Current | Potential | | Build-out |
| Springfield Terrace | DU/Acres | Extraction | Demand AFY | DU/Acres | Demand AFY | Demand AFY |
| Uncoded | | 0.0 | 0 | | | 0 |
| Urban Residential (<1 ac/du) | 391 du | 31.0 | 12,121 | 93 du | 2,883 | 15,004 |
| Suburban Residential (1-10 ac/du) | 197 du | 31.0 | 6,107 | 8 du | 248 | 6,355 |
| Rural Residential (>10 ac/du) | 33 du | 41.0 | 1,353 | 13 du | 533 | 1,886 |
| Commercial/Office | 12 | 0.0 | 0 | | | 0 |
| Industrial | 0 | 0.0 | 0 | | | 0 |
| Truck Crops | 2,810 | 69.0 | 193,881 | | | 193,881 |
| Berries | 543 | 67.0 | 36,354 | | | 36,354 |
| Field Crops | 77 | 38.0 | 2,922 | | | 2,922 |
| Flowers/Nursery/mushrooms | 187 | 83.0 | 15,520 | | | 15,520 |
| Fruits/Nuts | 7 | 21.0 | 151 | | | 151 |
| Pasture | 155 | 0.0 | 0 | | | 0 |
| Vineyard | 13 | 21.0 | 281 | | | 281 |
| Grazing/Open | 3,204 | 0.0 | 0 | | | 0 |
| Other Agriculture | 114 | 0.0 | 0 | | | 0 |
| Recreation Open Space | 115 | 0.0 | 0 | | | 0 |
| Conservation Open Space | 457 | 0.0 | 0 | | | 0 |
| Public Facilities | 49 | 0.0 | 0 | | | 0 |
| Utilities/Common | 0 | 0.0 | 0 | | | 0 |
| | | | 268,691 | | 3,664 | 272,355 |

# Nitrate Loading
## North County Monterey

| Nitrate Loading | | | | | | |
|---|---|---|---|---|---|---|
| | Current | Loading Rates | Current | Potential | | Build-out |
| Granite Ridge | DU/Acres | Pounds | Nitrate Load | DU/Acres | Nitrate Load | Nitrate Load |
| Uncoded | | 0.0 | 0 | | | 0 |
| Urban Residential (<1 ac/du) | 497 du | 31.0 | 15,407 | 22 du | 682 | 16,089 |
| Suburban Residential (1-10 ac/du) | 881 du | 31.0 | 27,311 | 302 du | 9,362 | 36,673 |
| Rural Residential (>10 ac/du) | 70 du | 41.0 | 2,870 | 52 du | 2,132 | 5,002 |
| Commercial/Office | 44 | 0.0 | 0 | | | 0 |
| Industrial | 8 | 0.0 | 0 | | | 0 |
| Truck Crops | 51 | 69.0 | 3,489 | | | 3,489 |
| Berries | 71 | 67.0 | 4,733 | | | 4,733 |
| Field Crops | 13 | 38.0 | 503 | | | 503 |
| Flowers/Nursery/mushrooms | 124 | 83.0 | 10,251 | | | 10,251 |
| Fruits/Nuts | 20 | 21.0 | 414 | | | 414 |
| Pasture | 9 | 0.0 | 0 | | | 0 |
| Vineyard | 0 | 21.0 | 0 | | | 0 |
| Grazing/Open | 7,046 | 0.0 | 0 | | | 0 |
| Other Agriculture | 40 | 0.0 | 0 | | | 0 |
| Recreation Open Space | 0 | 0.0 | 0 | | | 0 |
| Conservation Open Space | 2 | 0.0 | 0 | | | 0 |
| Public Facilities | 66 | 0.0 | 0 | | | 0 |
| Utilities/Common | 6 | 0.0 | 0 | | | 0 |
| | | | **64,977** | | **12,176** | **77,153** |
| | | | | | | |
| | | | | | **Total** | **1,787,121** |

Nitrate Loading
North County Monterey

| Nitrate Loading | | | | | | |
|---|---|---|---|---|---|---|
| **Nitrate Loading** | Existing (pounds) | | Build-out (pounds) | | | |
| **North County Totals** | Ag | Residential | Ag | Residential | | |
| Pajaro | 362,527 | 27,711 | 362,527 | 31,833 | | |
| Highlands North | 135,920 | 66,996 | 307,842 | 87,887 | | |
| Highlands South | 135,645 | 132,933 | 485,184 | 162,340 | | |
| Springfield Terrace | 249,110 | 19,581 | 249,110 | 23,245 | | |
| Granite Ridge | 19,389 | 45,588 | 19,389 | 57,764 | | |
| Totals | 902,591 | 292,809 | 1,424,052 | 363,069 | | |
| | Existing Total | 1,195,400 | Build-out Total | 1,787,121 | | |

# APPENDIX H
# MISCELLANEOUS SUPPORTING DATA

NC-04

STATE OF CALIFORNIA—RESOURCES AGENCY

EDMUND G. BROWN JR., Governor

DEPARTMENT OF WATER RESOURCES
3374 E. SHIELDS AVE.
FRESNO 93726
(209) 488-5443

| MCFC&WCD | | | | |
|---|---|---|---|---|
| INT. | NAME | | | |
| | BUNTE | | | |
| | BINDER | | | |
| | MADRIGAL | | | |
| | BARENG | | | |
| | STEWART | | | |
| | TAYLOR | | | |
| | GLAZNER | | | |
| | PARKS DPT. | | | |
| FILE | | | | |

March 23, 1977

Mr. Loran S. Bunte, Jr.
District Engineer
Monterey County Flood Control and
Water Conservation District
P. O. Box 930
Salinas, CA 93901

Dear Mr. Bunte:

The attached report on the water resources and water requirements of the North Monterey area, in the northern part of Monterey County, is the result of the cooperative agreement between the Department of Water Resources and the Monterey County Flood Control and Water Conservation District.

The study was initiated after residents in the study area expressed concern over the adequacy of present ground water supplies to meet the water demands of current and future levels of development. Present water supplies are met almost exclusively by pumping from the underlying ground water basin.

The Department concludes that the 21 700-hectare (53,700-acre) study area is experiencing an overdraft of its ground water supplies that is causing sea water intrusion into aquifers along the coast and lowering ground water tables elsewhere.

A review of proposed projects to import water into the study area revealed that no single proposal is comprehensive enough to correct all the deficiencies that now exist and that no comprehensive solution conceived during the course of the study showed sufficient promise to warrant more than cursory evaluation.

Sincerely,

Carl L. Stetson, Chief
San Joaquin District

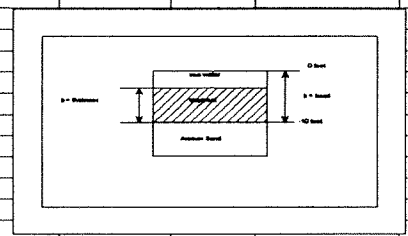
Attachment

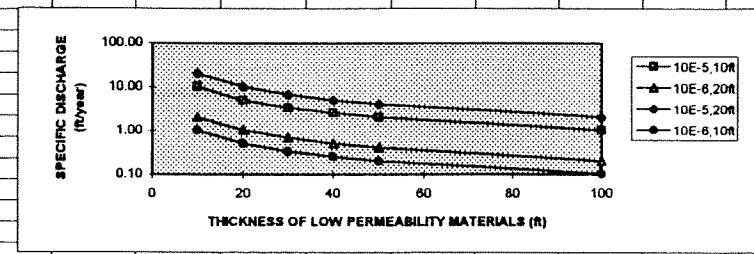
LEAKAGE THROUGH SLOUGH

q = kh/b

where =

q, flow through unit area
k, hydraulic conductivity
h, delta head
b, thickness of flow path






| Head (feet) | Thickness (feet) | Hydraulic onductivit (cm/sec) | Hydraulic Conductivity (ft/year) | q (feet/year) | Head (feet) | Thickness (feet) | Hydraulic onductivit (cm/sec) | Hydraulic Conductivity (ft/year) | q (feet/year) | Head (feet) | Thickness (feet) | Hydraulic onductivit (cm/sec) | Hydraulic onductivity (ft/year) | q (feet/year) | Head (feet) | Thickness (feet) | Hydraulic onductivit (cm/sec) | Hydraulic onductivity (ft/year) | q (feet/year) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 10 | 1.00E-06 | 1.03E+00 | 1.03 | 20 | 10 | 1.00E-06 | 1.03E+00 | 2.06 | 10 | 10 | 1.00E-05 | 1.03E+01 | 10.30 | 20 | 10 | 1.00E-05 | 1.03E+01 | 20.60 |
| 10 | 20 | 1.00E-06 | 1.03E+00 | 0.52 | 20 | 20 | 1.00E-06 | 1.03E+00 | 1.03 | 10 | 20 | 1.00E-05 | 1.03E+01 | 5.15 | 20 | 20 | 1.00E-05 | 1.03E+01 | 10.30 |
| 10 | 30 | 1.00E-06 | 1.03E+00 | 0.34 | 20 | 30 | 1.00E-06 | 1.03E+00 | 0.69 | 10 | 30 | 1.00E-05 | 1.03E+01 | 3.43 | 20 | 30 | 1.00E-05 | 1.03E+01 | 6.87 |
| 10 | 40 | 1.00E-06 | 1.03E+00 | 0.26 | 20 | 40 | 1.00E-06 | 1.03E+00 | 0.52 | 10 | 40 | 1.00E-05 | 1.03E+01 | 2.58 | 20 | 40 | 1.00E-05 | 1.03E+01 | 5.15 |
| 10 | 50 | 1.00E-06 | 1.03E+00 | 0.21 | 20 | 50 | 1.00E-06 | 1.03E+00 | 0.41 | 10 | 50 | 1.00E-05 | 1.03E+01 | 2.06 | 20 | 50 | 1.00E-05 | 1.03E+01 | 4.12 |
| 10 | 100 | 1.00E-06 | 1.03E+00 | 0.10 | 20 | 100 | 1.00E-06 | 1.03E+00 | 0.21 | 10 | 100 | 1.00E-05 | 1.03E+01 | 1.03 | 20 | 100 | 1.00E-05 | 1.03E+01 | 2.06 |

| *NEW SUBAREA* | *DEPOSITIONAL ENVIRONMENT* | *STRATIGRAPHY AQUIFER UNITS* | *SOURCE(S) OF RECHARGE* | *HYDROGEOLOGIC BASIS* | *BOUNDARIES* | *CURRENT CONDITIONS* |
|---|---|---|---|---|---|---|
| **PAJARO** | Alluvial/Fluvial | Alluvium, Upper and Lower | Pajaro River Infiltration | Source of Recharge | N- Pajaro River | Water levels in 50 % of area below sea level |
| | | Aromas | Local Infiltration | Depositional Environment | W- Pacific Ocean | Localized elevated Cl and NO3 ion concentrations |
| | | Purisima | Minor Inflow from Highlands | | E- County Line | Seawater intrusion |
| | | | | | S- Highlands Subarea | Falling water levels/Storage Depletion |
| **SPRINGFIELD** | Terrace Deposits on | Terrace Deposits | Local Infiltration | Hydraulically Isolated | N- Pajaro Subarea | Water levels in 80 % of area below sea level |
| | Fluvial/Eolian/Eustuarian | Aromas | Seawater Intrusion | | W- Pacific Ocean | Localized elevated Cl and NO3 ion concentrations |
| | | Purisima | Possible Inflow from Highlands | | E- Elkhorn Slough | Seawater intrusion/infiltration |
| | | | | | S- Elkhorn Slough | Falling water levels/Storage Depletion |
| **HIGHLANDS** | Fluvial/Eolian/Estuarian | Aromas | Local Infiltration | Depositional Environment | N- Pajaro Subarea | Water levels in 30 % of area below sea level |
| | | Purisima | Minor inflow from Granite Ridge | Source of Recharge | W- Elkhorn Slough | Localized elevated Cl and NO3 ion concentrations |
| | | | Minor Streamflow Infiltration | | E- Granite Ridge Subarea | Seawater intrusion/infiltration |
| | | | | | S- Salinas Basin | Falling water levels/Storage Depletion |
| **GRANITE RIDGE** | Onlap of Aromas on | Aromas | Local Infiltration | Shallow Bedrock | N- Highlands Subarea | Localized elevated Cl and NO3 ion concentrations |
| | Bedrock | Weathered Granite | | | W- Highlands Subarea | Seawater intrusion |
| | | Fresh Granite/Tertiary Sed. | | | E- County Line | Falling water levels |
| | | | | | S- Highlands Subarea | Limited Storage |

# SUMMARY OF PREVIOUS REPORTS

| Investigator | Date | Study Area | Area | Agricultural Demand | M & I Demand | Total Demand | Recharge | Storage | Overdraft | Recharge Rate | Sea Water Intrusion | Conclusions/Recommendations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Title | | | (acres) | (acre-feet) | (acre-feet) | (acre-feet) | (acre-feet) | (acre-feet) | (acre-feet) | (inches/year) | (acres) | |
| State Water Res. Board | 1953 | Pajaro Valley Floor, | | | | | | | >5,000 | | | Demand exceeds supply |
| Bulletin 5 | | Springfield Terrace | | | | | | | | | | Import water |
| | | | | | | | | | | | | |
| Department of Water | 1970 | N. County Area | 53,543 | 22,800 | | | 4,490 | 3,000,000 | 18,300 | 1.2 | 2,500 | Demand far exceeds supply |
| Resources (DWR) | | | | | | | | | | | | Import water |
| Ground Water N. Mty Cty | | | | | | | | | | | | Water Quality |
| R.S. Brown - Draft | | | | | | | | | | | | Low Well Yields |
| | | | | | | | | | | | | |
| Department of Water | 1971 | N. County Area | 53,700 | 26,400 | 1,900 | 28,400 | 4,580 | 3,900,000 | 17,000 | 1.2 | 2,500 | 1/2 Springfield Terrace intruded by 1980 |
| Resources (DWR) | | | | | | | | | | | | Overdraft |
| Ground Water N. Mty Cty | | | | | | | | | | | | Import Water |
| Draft | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Department of Water | 1977 | N. County Area | 53,700 | 26,500 | 1,800 | 28,400 | 13,000 | 2,900,000 | 15,500 | 1.8 | 2,500 | Springfield Terrace receives no recharge |
| Resources (DWR) | | | | | | | | | | | | Explore Purisima Formation |
| Ground Water N. Mty Cty | | | | | | | | | | | | Import Water |
| Final | | | | | | | | | | | | Reduce Demand |
| USGS | | | | | | | | | | | | Explore Purisima Formation |
| Ground Water N. Mty Cty | 1983 | N. County Area | 59,300 | 32,800 | 3,500 | 36,300 | 20,600 - 26,500 | 3,300,000 | 1,500 - 8,000 | 4.15 - 5.35 | | |
| | | | | | | | | | | | | |
| Anderson-Nichols (A-N) | May-81 | Moratorium Area | 7,200 | 596 | 243 | 838 | 922 | | <83.1> | 1.5 | | Aquifers Poor and Limited |
| N. County Moratorium Area | | | | | | | | | | | | Low storage, Low recharge |
| Ground Water Study | | | | | | | | | | | | Variable occurrence of ground water |
| | | | | | | | | | | | | Total Population no more than 4,000 |
| | | | | | | | | | | | | Nitrates will continue to rise |
| Anderson-Nichols (A-N) | Jun-81 | Planning Areas | 3,381 | | | 354 | 381 | | <27.3> | 1.35 | | Water importation would be costly |
| N. County Moratorium | | A, B, C, and D | | | | | | | | | | Implement GWMP |
| Addendum | | | | | | | | | | | | Implement Land Use Restrictions |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Anderson-Nichols (A-N) | 1985 | Proposed CSA Area | 4,073 | | | 1,000 | 713 | | 287 | 2.1 | | CSA Feasible |
| Prunedale Assessment | | | | | | | | | | | | Nitrate problems widespread |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| J.M. Montgomery | 1993 | Springfield Terrace | 6,571 | 4,972 | 183 | 5,155 | 986 | | 4,169 | 1.8 | | |
| Pajaro Model | | Carneros Hills | 11,447 | 325 | 135 | 460 | 1,050 | | <590> | 1.1 | | |
| | | Carneros Creek | 11,282 | 2,974 | 864 | 3,837 | 1,786 | | 2,052 | 1.9 | | |
| | | | | | | | | | | | | |

# APPENDIX I
# WATER LEVEL DATA

# WATER LEVEL TREND ANALYSIS - MCWRA STUDY WELLS

| State Well No | Subarea | 70date | 70elev | 80date | 80elev | 70 80 wl chg | 70 80 Avg | 90date | 90elev | 80 90 wl chg | 80 90 Avg | 70 90 wl chg | 70 90 Avg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13S/03E-04L01 | Granite Ridge | 12/9/70 | 281.60 | 12/19/80 | 274.40 | -7.20 | -0.72 | 1/2/91 | 277.20 | 2.80 | 0.28 | -4.40 | -0.22 |
| 13S/03E-08D01 | Granite Ridge | 12/9/70 | 177.60 | 12/19/80 | 170.50 | -7.10 | -0.71 | 1/4/90 | 171.20 | 0.70 | 0.07 | -6.40 | -0.32 |
| 13S/03E-10N01 | Granite Ridge | 12/9/70 | 278.00 | 12/19/80 | 277.70 | -0.30 | -0.03 | 1/4/90 | 283.80 | 6.10 | 0.61 | 5.80 | 0.29 |
| 13S/03E-10Q01 | Granite Ridge | 12/9/70 | 440.00 | 12/19/80 | 437.20 | -2.80 | -0.28 | 1/4/90 | 434.90 | -2.30 | -0.23 | -5.10 | -0.26 |
| 13S/03E-16C03 | Granite Ridge | 12/9/70 | 200.50 | 12/24/80 | 186.70 | -13.80 | -1.38 | 1/4/90 | 180.90 | -5.80 | -0.58 | -19.60 | -0.98 |
| 13S/03E-16J01 | Granite Ridge | 12/8/71 | 55.00 | 12/19/80 | 50.60 | -4.40 | -0.44 | 1/5/90 | 42.60 | -8.00 | -0.80 | -12.40 | -0.62 |
| 13S/03E-17F01 | Granite Ridge | 12/9/70 | 165.30 | 12/19/80 | 163.20 | -2.10 | -0.21 | 1/4/90 | 160.40 | -2.80 | -0.28 | -4.90 | -0.25 |
| 12S/02E-14N01 | Highlands | 12/14/71 | 4.90 | 12/24/80 | -1.20 | -6.10 | -0.61 | 12/12/91 | -8.40 | -7.20 | -0.72 | -13.30 | -0.66 |
| 12S/02E-14Q01 | Highlands | 12/3/70 | 12.50 | 12/18/80 | 6.60 | -5.90 | -0.59 | 1/17/90 | 3.00 | -3.60 | -0.36 | -9.50 | -0.48 |
| 12S/02E-25A01 | Highlands | 12/3/70 | 17.80 | 12/18/80 | 12.40 | -5.40 | -0.54 | 1/3/90 | 7.40 | -5.00 | -0.50 | -10.40 | -0.52 |
| 12S/02E-25K01 | Highlands | 12/6/71 | 18.60 | 12/18/80 | 11.50 | -7.10 | -0.71 | 1/2/91 | 7.90 | -3.60 | -0.36 | -10.70 | -0.54 |
| 12S/02E-25N01 | Highlands | 12/9/70 | 17.10 | 12/24/80 | 12.90 | -4.20 | -0.42 | 1/3/90 | 8.10 | -4.80 | -0.48 | -9.00 | -0.45 |
| 12S/03E-19M01 | Highlands | 12/3/70 | 10.00 | 12/18/80 | 4.20 | -5.80 | -0.58 | 1/3/90 | -2.90 | -7.10 | -0.71 | -12.90 | -0.65 |
| 12S/03E-31E01 | Highlands | 12/9/70 | 18.00 | 12/16/81 | 18.00 | 0.00 | 0.00 | 1/3/90 | 13.80 | -4.20 | -0.42 | -4.20 | -0.21 |
| 12S/03E-33H01 | Highlands | 12/3/70 | 27.60 | 12/23/80 | 28.20 | 0.60 | 0.06 | 1/4/90 | 22.30 | -5.90 | -0.59 | -5.30 | -0.27 |
| 13S/02E-01K01 | Highlands | 12/9/70 | 8.30 | 12/18/80 | 2.20 | -6.10 | -0.61 | 1/3/90 | -5.40 | -7.60 | -0.76 | -13.70 | -0.69 |
| 13S/02E-02C01 | Highlands | 12/6/71 | 5.00 | 12/18/80 | 1.20 | -3.80 | -0.38 | 1/3/90 | -11.50 | -12.70 | -1.27 | -16.50 | -0.83 |
| 13S/02E-10J01 | Highlands | 12/17/71 | -11.00 | 12/18/80 | -21.60 | -10.60 | -1.06 | 1/4/90 | -24.20 | -2.60 | -0.26 | -13.20 | -0.66 |
| 13S/02E-26L01 | Highlands | 12/7/70 | 4.20 | 4/8/80 | -15.00 | -19.20 | -1.92 | 7/4/90 | -12.70 | 2.30 | 0.23 | -16.90 | -0.84 |
| 13S/03E-17B01 | Highlands | 12/9/70 | 173.60 | 12/19/80 | 168.40 | -5.20 | -0.52 | 12/12/91 | 163.50 | -4.90 | -0.49 | -10.10 | -0.51 |
| 13S/03E-19H01 | Highlands | 12/9/70 | 17.30 | 12/19/80 | 10.80 | -6.50 | -0.65 | 1/4/90 | 5.90 | -4.90 | -0.49 | -11.40 | -0.57 |
| 13S/03E-20P01 | Highlands | 12/9/70 | 77.30 | 12/19/80 | 78.00 | 0.70 | 0.07 | 1/4/90 | 68.20 | -9.80 | -0.98 | -9.10 | -0.46 |
| 12S/02E-11E04 | Pajaro | 11/20/70 | 6.80 | 12/17/80 | 4.00 | -2.80 | -0.28 | 12/20/90 | -2.00 | -6.00 | -0.60 | -8.80 | -0.44 |
| 12S/02E-12E01 | Pajaro | 11/20/70 | 14.00 | 12/17/80 | 7.00 | -7.00 | -0.70 | 12/20/90 | -4.40 | -11.40 | -1.14 | -18.40 | -0.92 |
| 12S/02E-15E01 | Pajaro | 11/20/70 | 4.90 | 12/17/80 | -0.40 | -5.30 | -0.53 | 12/20/90 | -6.60 | -6.20 | -0.62 | -11.50 | -0.58 |
| 12S/02E-16F01 | Pajaro | 11/20/70 | 3.30 | 12/17/80 | -0.90 | -4.20 | -0.42 | 8/18/91 | -28.30 | -27.40 | -2.74 | -31.60 | -1.58 |
| 12S/02E-16J01 | Pajaro | 11/20/70 | 4.10 | 12/17/80 | -2.10 | -6.20 | -0.62 | 12/26/90 | -10.80 | -8.70 | -0.87 | -14.90 | -0.75 |
| 12S/02E-16L01 | Pajaro | 8/15/71 | -9.80 | 12/17/80 | -3.50 | 6.30 | 0.63 | 12/26/90 | -11.10 | -7.60 | -0.76 | -1.30 | -0.07 |
| 12S/02E-16Q01 | Pajaro | 8/16/70 | -3.50 | 12/17/80 | -0.70 | 2.80 | 0.28 | 12/26/90 | -10.20 | -9.50 | -0.95 | -6.70 | -0.33 |
| 12S/02E-19A02 | Pajaro | 11/24/70 | 0.20 | 12/17/80 | -4.00 | -4.20 | -0.42 | 12/26/90 | -8.40 | -4.40 | -0.44 | -8.60 | -0.43 |
| 12S/03E-07J02 | Pajaro | 11/22/71 | 20.00 | 12/17/80 | 13.80 | -6.20 | -0.62 | 12/26/90 | -3.80 | -17.60 | -1.76 | -23.80 | -1.19 |
| 12S/03E-08M01 | Pajaro | 11/20/70 | 29.50 | 12/17/80 | 19.80 | -9.70 | -0.97 | 12/26/90 | 1.60 | -18.20 | -1.82 | -27.90 | -1.39 |
| 12S/03E-18D01 | Pajaro | 11/20/70 | 20.00 | 12/17/80 | 15.00 | -5.00 | -0.50 | 1/1/90 | 5.10 | -9.90 | -0.99 | -14.90 | -0.75 |
| 12S/03E-18E04 | Pajaro | 11/20/70 | 23.70 | 12/15/81 | 15.40 | -8.30 | -0.83 | 1/4/90 | 11.30 | -4.10 | -0.41 | -12.40 | -0.62 |
| 12S/02E-20K01 | Springfield | 11/20/70 | 0.50 | 12/17/80 | -5.70 | -6.20 | -0.62 | 12/26/90 | -16.60 | -10.90 | -1.09 | -17.10 | -0.86 |
| 12S/02E-20K02 | Springfield | 11/20/70 | -1.00 | 12/17/80 | -6.00 | -5.00 | -0.50 | 12/26/90 | -12.00 | -6.00 | -0.60 | -11.00 | -0.55 |
| 12S/02E-29A01 | Springfield | 11/20/70 | 4.00 | 12/17/80 | -5.00 | -9.00 | -0.90 | 12/26/90 | -6.20 | -1.20 | -0.12 | -10.20 | -0.51 |
| 12S/02E-29N01 | Springfield | 11/19/70 | -0.40 | 12/17/80 | -5.50 | -5.10 | -0.51 | 12/26/90 | -9.10 | -3.60 | -0.36 | -8.70 | -0.44 |
| 12S/02E-29R01 | Springfield | 11/19/70 | -2.30 | 12/17/80 | -8.70 | -6.40 | -0.64 | 12/21/90 | -13.40 | -4.70 | -0.47 | -11.10 | -0.55 |
| 12S/02E-30M02 | Springfield | 11/20/70 | -1.30 | 12/17/80 | -3.30 | -2.00 | -0.20 | 12/26/90 | -13.40 | -10.10 | -1.01 | -12.10 | -0.60 |
| 12S/02E-30N01 | Springfield | 11/26/70 | -2.30 | 12/17/80 | -3.10 | -0.80 | -0.08 | 12/26/90 | -7.70 | -4.60 | -0.46 | -5.40 | -0.27 |
| 12S/02E-31C02 | Springfield | 11/20/70 | -1.00 | 12/17/80 | -5.00 | -4.00 | -0.40 | 12/26/90 | -13.70 | -8.70 | -0.87 | -12.70 | -0.63 |
| 12S/02E-31K01 | Springfield | 11/19/70 | -0.20 | 12/17/80 | -3.20 | -3.00 | -0.30 | 12/21/90 | -5.90 | -2.70 | -0.27 | -5.70 | -0.29 |
| 12S/02E-32C01 | Springfield | 11/19/70 | -2.40 | 12/17/80 | -7.50 | -5.10 | -0.51 | 12/21/90 | -12.30 | -4.80 | -0.48 | -9.90 | -0.50 |
| 13S/02E-04F01 | Springfield | 11/19/70 | -1.70 | 12/17/80 | -4.70 | -3.00 | -0.30 | 12/11/91 | -11.70 | -7.00 | -0.70 | -10.00 | -0.50 |
| 13S/02E-04K01 | Springfield | 11/24/71 | -2.40 | 12/17/80 | -5.70 | -3.30 | -0.33 | 12/11/91 | -8.50 | -2.80 | -0.28 | -6.10 | -0.30 |
| 13S/02E-05M01 | Springfield | 11/19/70 | -4.00 | 12/17/80 | -8.50 | -4.50 | -0.45 | 12/21/90 | -9.30 | -0.80 | -0.08 | -5.30 | -0.27 |
| 13S/02E-06C01 | Springfield | 11/19/70 | 2.00 | 12/17/80 | 0.20 | -1.80 | -0.18 | 12/21/90 | 1.10 | 0.90 | 0.09 | -0.90 | -0.04 |
| 13S/02E-06E03 | Springfield | 11/19/70 | 4.60 | 12/17/80 | -1.40 | -6.00 | -0.60 | 12/21/90 | -11.50 | -10.10 | -1.01 | -16.10 | -0.80 |
| 13S/02E-06R01 | Springfield | 11/3/71 | 6.60 | 12/14/81 | -5.50 | -12.10 | -1.21 | 12/21/90 | -8.30 | -2.80 | -0.28 | -14.90 | -0.75 |

| Subarea | AvgOf70 80 Avg | AvgOf80 90 Avg | AvgOf70 90 Avg |
|---|---|---|---|
| Granite Ridge | -0.54 | -0.13 | -0.34 |
| Highlands | -0.56 | -0.54 | -0.55 |
| Pajaro | -0.42 | -1.09 | -0.75 |
| Springfield | -0.48 | -0.50 | -0.49 |