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**OIL AND GAS
DEVELOPMENTS
IN NEVADA**

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INTRODUCTION

This bulletin presents pertinent information on wells drilled for oil and gas in Nevada from 1907 through 1986. It supersedes Nevada Bureau of Mines and Geology (NBMG) Bulletin 52 (Lintz, 1957a), NBMG Report 18 (Schilling and Garside, 1968), and NBMG Report 29 (Garside and others, 1977); however, the detailed stratigraphic descriptions in Bulletin 52 are not repeated here.

The principal purpose of this publication is to provide a ready reference to facilitate geologic research. It is likely that the majority of users of this bulletin will be in the petroleum business; however, anyone interested in subsurface rocks or water flows will find it of value. In many cases, the listing of information available at NBMG will lead researchers to investigate the oil and gas files in person.

The following sections provide data on producing wells and dry holes, brief summaries of the oil fields, and limited information on the exploration history, oil and gas shows during drilling, and oil seeps in each county. Although no wells are included that were issued drilling permits by the Nevada Department of Minerals after December 1986, some data obtained in 1987 were used. Information on drilling permits for wells that were not drilled is included in the appendixes.

Sources of Information

This bulletin was compiled mainly from NBMG data bases and files; other sources are listed below and in the bibliography. NBMG maintains a current computer data base on oil and gas drilling in Nevada (Hess, Fleming, and Lohn, 1987). NBMG also maintains files on geology, drilling activity, and oil production in Nevada. Files for individual wells usually include a copy of the permit, completion and plugging data, logs run, and production records. Drill cuttings are available for many wells. Except for confidential information, these files are available for public inspection. If you want to copy logs or examine cuttings, please make an appointment in advance. Xerographic copies of the logs and other records can be made on letter-size or legal-size paper, or the user can copy them on his own portable microfilm equipment. Facilities for making larger copies are not available locally.

The Nevada Department of Minerals has records for wells drilled since the formation of the Nevada Oil and Gas Conservation Commission in 1953.

Petroleum Information Corporation (4301 Stine Road, Suite B, Bakersfield, CA 93389) and M. J. Systems, Inc. (5085 Oakland Street, Montebello Industrial Park, Denver, CO 80239) have copies of most of the well logs listed in this bulletin and can supply microform or paper copies.

The following companies publish newsletters and individual well cards related to Nevada oil and gas activities, and can provide a variety of data on the petroleum exploration business and on wells drilled in Nevada: Munger Oilgram (P.O. Box 45738, Los Angeles, CA 90045-0738), Petroleum Information (P.O. Box 2612, Denver, CO 80201), and Hotline

Energy Reports (1050 Seventeenth Street, Suite 2550, Denver, CO 80265). Published material from these sources is used, with appropriate citations, in some of the following well descriptions.

Interpretative stratigraphic logs of a number of wells are available from American Stratigraphic Co. (6280 East 39th Avenue, Denver, CO 80207); a few of the "tops" listed for the wells described in this bulletin were taken from those logs.

Well records are often incomplete and may contain conflicting information. In some instances, it is necessary to make a subjective choice between conflicting data. Every effort has been made to give accurate data in this bulletin but some interpretive data may be inaccurate.

Regulation

Approximately 87 percent of Nevada land is owned by the U.S. Government. Until the creation of the Nevada Oil and Gas Conservation Commission in 1953, no Nevada agency regulated the drilling of oil and gas exploration wells. Information on wells drilled before the 1950's is incomplete because only minimal U.S. Government records are available for wells drilled on Federal land, and often there is no information for wells drilled on private land.

The Nevada Department of Minerals (400 W. King Street, Suite 100, Carson City, NV 89710) is the State agency responsible for the regulation of oil and gas drilling, and should be contacted for information on drilling regulations. In addition, for wells drilled on Federal lands, permits are also required from the U.S. Bureau of Land Management (State Office, 850 Harvard Way, Reno, NV 89502). The Bureau of Land Management should also be contacted concerning leasing information on Federal land. Little State land is available for petroleum exploration.

When drilling permits are issued, the information available to the public includes the operator name, Nevada permit number, API (American Petroleum Institute) unique well number, well name, surface location, and elevation. Other general information is often presented in environmental reports, and becomes part of the public record. Nevada law provides for a 6-month confidentiality period, if requested by the operator, for all other data submitted to the Nevada Department of Minerals. In the case of a series of wells, in which a well is drilled every 6 months or less, approval may be given to extend the confidentiality period to 6 months after the last well in the series.

Organization of Bulletin and Explanation of Terms

The distribution of the wells drilled for oil and gas is shown on plate 1 along with known surface occurrences of oil and tarry or solid bitumen or natural (hydrocarbon) gas in shallow wells. The reported gas and oil seeps and other surface occurrences are mainly taken from the literature; some of them are poorly known or speculative. They are further described in the introductory material for each county.

All wells drilled for oil and gas in Nevada are alphabetically listed in the following text by county, operator, and well name. Abbreviations used are listed inside the back cover. The following information, when available, is listed for each well:

Well Name consists of an operator name and an individual well name. The operator name is as listed on the drilling permit. After a well is drilled its name does not change with changes in ownership.

Location is given by legal subdivision (section, township, and range). Where more detailed information is available, the quarter-quarter-quarter system is used (for example: NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T10N, R57E indicates that the well is located within an approximately 10-acre parcel which is the northeast quarter of the southeast quarter of the northwest quarter of section 33, Township 10 North, Range 57 East, Mount Diablo Base and Meridian). The well location is also given by distances from section lines, when available.

Elevation is assumed to be that of the ground surface at the drill site unless the elevation of the kelly bushing (KB) is used; if so this is mentioned in the remarks. The kelly bushing can be 10 to 40 ft above ground level.

Completion Date is generally that reported by the operator. When the exact date of completion is not known, only the month or year of completion is provided.

Status is based on information available at the time this report was completed. A plugged and abandoned (P & A) well is one that is known to be plugged; no plugging information is available on wells listed as drilled and abandoned (D & A). Junked and abandoned (J & A) wells are reported to have junk in the hole. A shut-in status is generally assigned only to wells that have produced but are not expected to have any production in the near future. Injection wells, used for the disposal of water produced with the oil, may have been producers in the past.

Oil Field Name is listed only for producing wells.

Total Depth is that reported by the operator, usually in the well completion report. Depths reported on wireline logs or driller's reports may not always agree exactly with this number. Some wells may have been deepened; this is reported in the Remarks.

Tops are the reported depths at which the tops of rock units were encountered. This reported depth is usually measured from the kelly bushing, which is 10 to 40 ft above ground level. Tops may have been picked by sample examination or from wireline logs. No attempt was made by the authors to confirm these tops, which are usually those reported by the operator unless noted otherwise. Picking tops is often difficult; it is likely that many of the tops reported are somewhat in error. The rock formation names listed are usually those in general usage in Nevada (see Meeuwig, 1987). The geologic age terms used represent the most commonly cited or are the age of the majority of the formation. Many formations span two or more geologic periods or epochs, but for simplicity, in this report only one is listed with the formation name.

The list of *Logs* and interval logged for each well consists only of those logs available in the NBMG files. In some cases, logs may have been run on wells but copies were not submitted by the operator. The abbreviations

used for the log names are listed inside the back cover.

Under the *Samples* heading are listed the depth intervals for which drill cuttings or, less commonly, cores are stored in the NBMG Sample Library. These samples are available for inspection, usually by prior arrangement.

Information not easily listed elsewhere is included under the *Remarks* heading. This information includes: oil and hydrocarbon gas shows, water flow intervals, producing intervals, initial production, and the availability at NBMG of certain more detailed information such as source-rock studies or water analyses. Because oil and gas shows are important data for petroleum exploration, the well records were carefully searched for any mention of them. The shows are usually those reported by the operator or service companies, although other sources may have been used. No attempt was made to classify the shows uniformly or to separately confirm them; they include both live and dead oil, cut fluorescence, and gas reported during drilling or on drill stem tests. See LeRoy and others (1977) and Asquith and Gibson (1982) for further discussion of oil and gas drilling terminology and practices.

The bibliography includes all references directly related to Nevada petroleum of which we are aware. A partial bibliography of early 1900's newspaper articles on Nevada oil exploration, compiled by Phillip Earl of the Nevada Historical Society, has been incorporated in the bibliography, but later newspaper accounts have not been included. Garside and Weimer (1987) describe some recent developments in Nevada petroleum; similar descriptions may be found in earlier volumes of NBMG Special Publications on the Nevada Mineral Industry. In addition, a few references of more general geologic interest are also included, but no attempt was made to be complete. Stewart (1980) contains an excellent summary of Nevada geology, and a companion map (Stewart and Carlson, 1978) illustrates the geologic units and structures described. A partial list of articles that illustrate modern thought in Nevada petroleum exploration includes Dolly (1979), Eaton (1979), Foster (1979), Maughan (1979), Vreeland and Berrong (1979), Harris and others (1980), Duey (1983a), French (1983a,b), Poole and others (1983), Sandberg (1983), Meissner and others (1984), Poole and Claypool (1984), and Bortz (1985a,b).

Appendix 1 is a sequential list of all Nevada permit numbers issued, including permits for which no well was drilled (indicated by an asterisk). Appendix 1 also includes wells drilled before any Nevada permit numbers were assigned; these are identified by a two-letter county designation followed by one or two numbers. Appendix 2 is a sequential list by API number of all Nevada wells. API numbers were assigned to many older wells long after they were drilled. More recently, API numbers have been assigned when the Nevada drilling permit is issued; some of the "wells" assigned API numbers after the creation of the Nevada Oil and Gas Conservation Commission in 1953 were never drilled. These are identified by an asterisk, and are not described elsewhere in the report. Appendix 3 is an alphabetic list by operator and well name of all wells drilled in Nevada. Appendix 4 is a compilation of Nevada oil production statistics. Appendix 5 is a list of all Nevada wells that have recorded oil production. Appendix 6 is a table, arranged

alphabetically by county and operator, of selected source-rock data from petroleum-exploration wells in Nevada.

Acknowledgements

The authors are grateful to a number of people who were of assistance during the preparation of this report. Kathy Loomis of the Nevada Department of Minerals provided much useful information on oil production statistics, regulations, and active wells. Scott McDaniel provided information on some wells as well as some references the authors were unaware of. Phillip Earl of the Nevada Historical Society helped in finding older oil well photographs and supplied the list of old newspaper articles included in the bibliography. Herb Duey supplied published and unpublished information on the Railroad Valley oil fields. Jim Rigby and Donna Flanigan reviewed the manuscript, and their comments improved the final report. The historical summary was written by Donna Flanigan, who has firsthand knowledge of Nevada petroleum history and production; we owe her a special debt for her efforts.

HISTORICAL SUMMARY OF NEVADA OIL AND GAS DEVELOPMENTS

The first well drilled for oil in Nevada was an 1,890-foot-deep dry hole drilled in Washoe County in 1907. Few wells were drilled in the State from 1907 to the early 1950's; these dry holes are all poorly known because no permits or other records were required until 1953. Figure 1 is a graphic illustration of 1976-1986 oil production and figure 2 shows the numbers of wells and total footage drilled annually from 1949 through 1986.

In 1954, Shell Oil Co. drilled and completed the Eagle Springs No. 1-35 well in Railroad Valley, Nye County; this well became the first commercial oil producer in Nevada. The Eagle Springs field included 14 wells with average production of nearly 20,000 barrels of oil per well per year by 1968. In 1985, ten wells still produced in the field; two wells made 18,000 barrels of oil and the rest averaged 2,800 barrels for the year. Most Eagle Springs field wells were shut in (not produced) for most of 1986 because of low crude oil prices. Initial estimates of recoverable reserves for the field were 4 million barrels of oil; by the end of 1986, 3.8 million barrels had been produced.

The second discovery that resulted in commercial oil production in Nevada came in 1976, when Northwest Exploration Co. drilled and completed the Trap Spring No. 1 well in Railroad Valley, 5 miles west of the Eagle Springs field. One hundred and forty-five dry holes had been drilled in Nevada after the Eagle Springs discovery

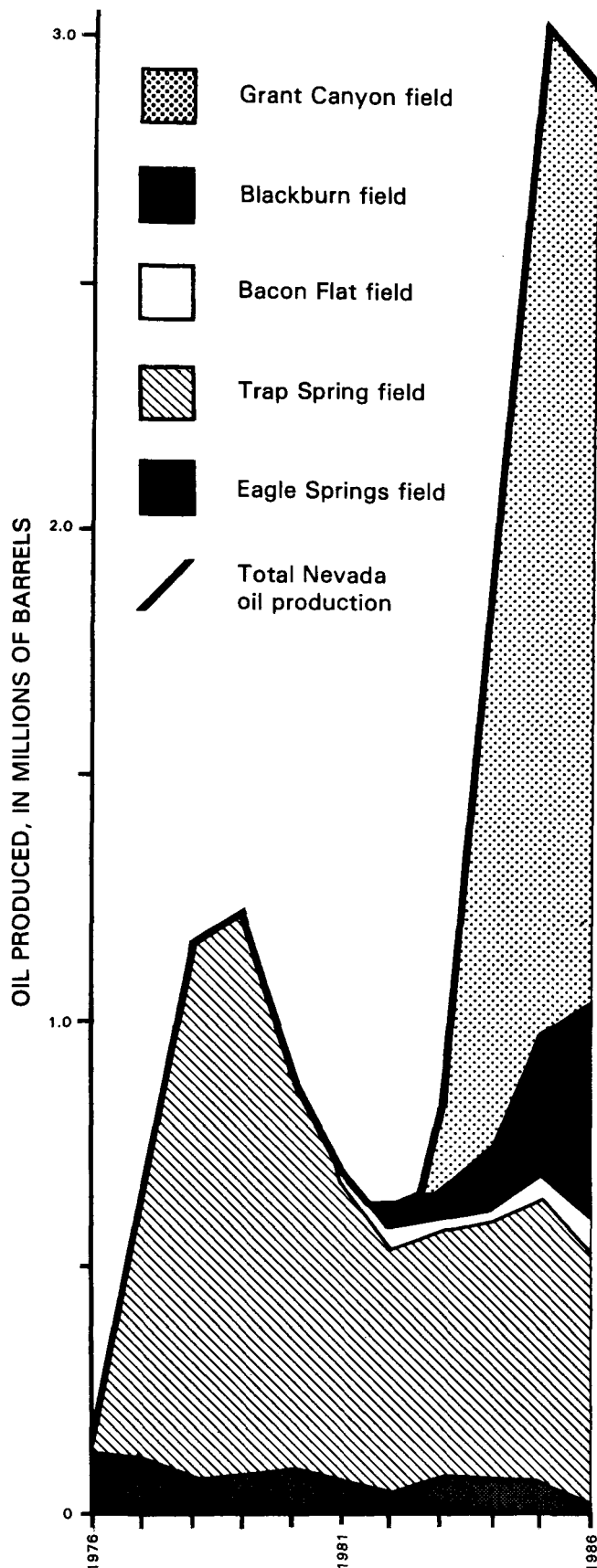


FIGURE 1.—Production by Nevada oil fields, 1976-86. Not shown are Currant field with minor production in 1976 and 1982, and Kate Spring field, with minor production in 1986.

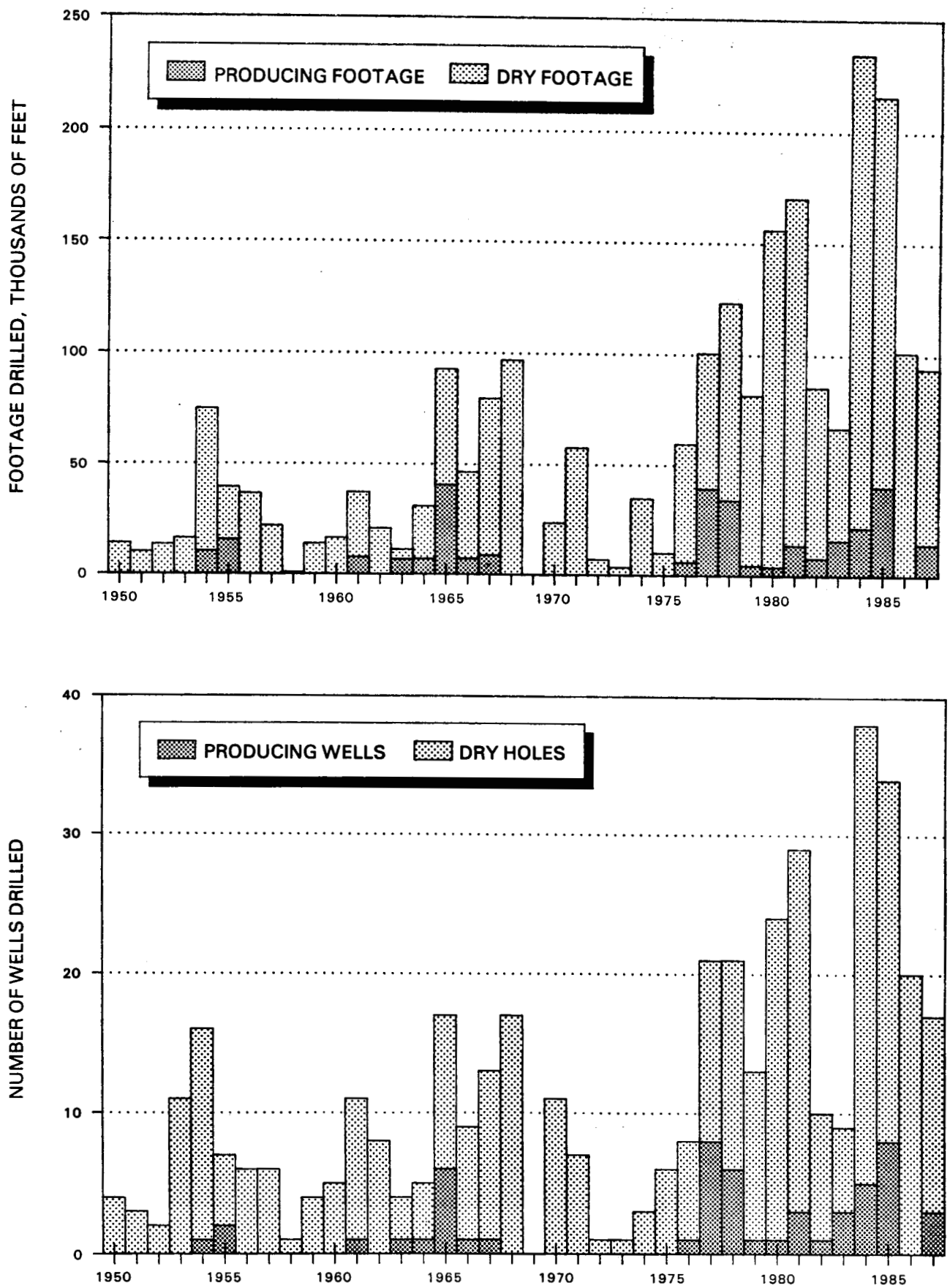


FIGURE 2.—Annual footages and numbers of oil wells drilled in Nevada from 1949 through 1987.

and before the Trap Spring discovery. By 1980 there were 15 wells in the Trap Spring field, with an average production of 76,700 barrels of oil per well per year. In 1985 there were 27 wells in the field, with an average production for the year of 18,600 barrels of oil per well. Recoverable reserves were initially estimated to be 10 million barrels of oil; by the end of 1986, 6.8 million barrels had been produced.

Nevada's third discovery well, the Northwest Exploration Co. Currant No. 1, was drilled in 1978, also in Railroad Valley, 6 miles north of the Eagle Springs field. This well produced only 646 barrels of oil before it was plugged and abandoned in 1986. No other wells were drilled in the Currant field.

Northwest Exploration Co. Bacon Flat No. 1, drilled in 1981, was Nevada's fourth discovery well. The Bacon Flat field is also in Railroad Valley, 9 miles south of the Eagle Springs field. The field consists of only the discovery well, but this well had produced 210,000 barrels of oil and was still flowing an average of 200 barrels of oil per day by the end of 1986. Reserve estimates are unavailable.

The only oil production outside of Railroad Valley was discovered in 1982 by Amoco Production Co. The Amoco Blackburn No. 3 was drilled and completed in Pine Valley, Eureka County, about 120 miles north of the nearest production in Railroad Valley. By the end of 1986, the Blackburn field included four wells and had produced nearly a million barrels of oil; the two best wells were still averaging 300 to 450 barrels of oil per day. Reserve estimates are unavailable.

The discovery of Nevada oil outside of Railroad Valley renewed the interest of many exploration companies. By the late 1970's, oil and gas leasing in Railroad Valley was essentially closed, that is, nearly all leases were taken, making it difficult or expensive for new companies to explore in the valley. Nearly two-thirds of all wells drilled by 1982 had been drilled in Railroad Valley. In other valleys, there had been little drilling and leases were still available and cheap. Since the Blackburn field discovery, exploration has expanded throughout Nevada, and by the end of 1986 less than half of all wells ever drilled in Nevada were in Railroad Valley.

The most prolific oil field in Nevada was discovered in 1983, when Northwest Exploration Grant Canyon No. 1 was drilled and completed. The Grant Canyon field is in Railroad Valley, less than a mile east of the Bacon Flat field. The discovery well watered out and was shut in by early 1986; at year-end the remaining two field wells continued to produce at average rates of 2,200 and 4,100 barrels of oil per day. For a time, Grant Canyon No. 3 was the most prolific onshore oil well in the continental United States, flowing up to 4,300 barrels of oil per day. Recoverable reserve estimates are 13 million barrels of oil; 5.3 million barrels had been produced by the end of 1986.

The most recent oil discovery in Nevada was drilled in 1986: the Marathon Oil Co. Kate Spring No. 1, in Railroad Valley less than a mile south of the Eagle Springs field. This discovery well had an initial flowing potential of 345 barrels of oil and 1,371 barrels of water

per day. The well produced 1,500 barrels of oil before it was shut in because of engineering problems and low prices for crude oil.

Drilling activity in 1986 was limited because of unstable and low oil prices, but operators continue to permit wells in Nevada. Future increases in drilling activity will be related to increased prices for crude oil. Federal oil and gas leasing policies, favorable State oil and gas regulations, and recently published articles in petroleum industry journals should all continue to encourage petroleum exploration and production activity in Nevada. Drilling will probably be concentrated in those areas of the State that are deemed to have higher potential. Figure 3 illustrates a simplified view of this potential, based on the presence of source rocks of suitable maturity (Stewart and Carlson, 1978; Harris and others, 1980) and reported surface and subsurface hydrocarbon shows (plate 1).

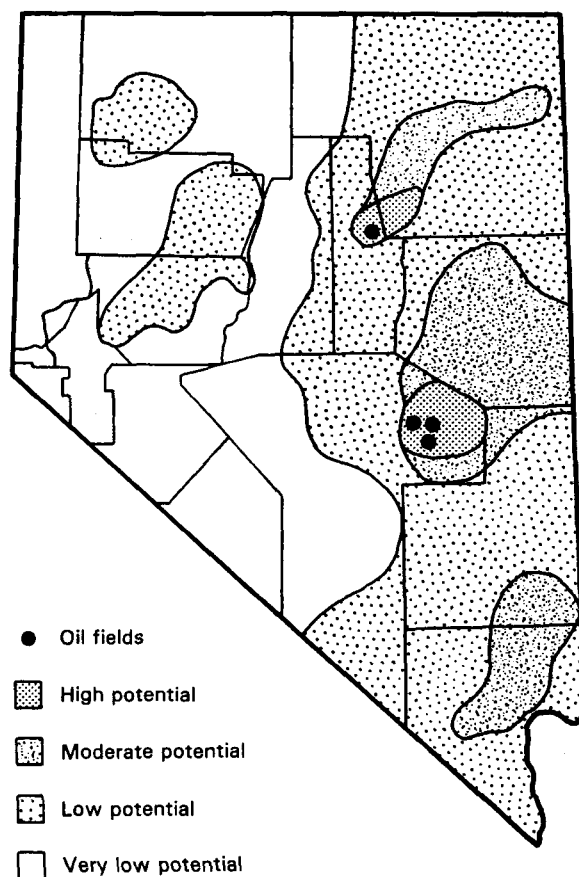


FIGURE 3.—Nevada petroleum potential.

ABBREVIATIONS

LOGS

BHCS	Borehole compensated sonic
Cal	Caliper
CBL	Cement bond log
CN	Compensated neutron
CNL	Compensated neutron log
Com/Pro	Computer-processed log
DI	Dual induction log
DIL	Dual induction laterolog
DLL	Dual laterolog
DM	Dipmeter
ES	Electric log
EP	Electromagnetic propagation
FDC	Compensated formation density
FDL	Formation density log
FIL	Fracture identification/indication log
GR	Gamma ray
IES	Induction electric log
LL	Laterolog
LSS	Long spaced sonic
ML	Microlog/minilog
MLL	Microlaterolog
N	Neutron
PL	Proximity log
PML	Proximity microlog
S	Sonic/acoustilog
SNP	Sidewall neutron porosity log
SP	Spontaneous potential
TS	Temperature survey
VDL	Variable density log

STATUS

D & A	Drilled and abandoned
J & A	Junked and abandoned
P & A	Plugged and abandoned
TA	Temporarily abandoned

FORMATION

<i>Formal</i>	<i>Informal</i>	
Cgl.	cgl.	Conglomerate
Dol.	dol.	Dolomite
Fm.	fm.	Formation
Gp.	gp.	Group
Ls.	ls.	Limestone
Mbr.	mbr.	Member
Qtz.	qtz.	Quartzite
Sh.	sh.	Shale
Ss.	ss.	Sandstone
Sts.	sts.	Siltstone
Volc.	volc.	Volcanics

OTHER

API	American Petroleum Institute
bbl.	Barrels (42 gallons)
BOPD	Barrels of oil per day
BWPD	Barrels of water per day
BWPH	Barrels of water per hour
BWPM	Barrels of water per minute
DF	Derrick floor
DST	Drill stem test
GPM	Gallons per minute
KB	Kelly bushing
MCF	Thousand cubic feet
NBMG	Nevada Bureau of Mines and Geology
PI	Petroleum Information
PSI	Pounds per square inch
PT	Production test
TD	Total depth

CHURCHILL COUNTY

Churchill County oil and gas drilling is restricted to the Carson Sink-Carson Desert area in the western part of the county. Nearly all of the drilling activity occurred during the 1920's and the 1960's. The early drilling resulted from a general high level of interest in petroleum exploration at that time and the known gas seeps and oil shows in shallow wells. Apparently some wells were drilled for which no information is available (figs. 4 and 5). Most of the 1960's wells were drilled by the Churchill Drilling Corp. There was a considerable amount of speculation and promotion associated with the drilling and leasing in both the 1920's and 1960's.

Morrison (1964, p. 114-115) has carefully documented the known seeps and water-well shows of flammable gas in the Carson Desert area. The following is quoted from his report:

Occurrences of natural gas.—Hydrocarbon-bearing natural gas issues from more than two dozen wells that have been drilled for water or as test wells for oil and gas. These wells are in a northeastward-trending belt 5 to 10 miles wide that extends from 1½ miles west of Carson Lake to about 10 miles northeast of Stillwater [about 15 wells in T17N and T18N, R28E and R29E; and in T19N, R30E and R31E]. A few wells have estimated yields of several hundred cubic feet of gas a day, but most yield less. Several of the better producers, located mostly near Stillwater, have in the past supplied gas for heating and cooking at nearby ranch houses, but in 1947-50 none were still in use.

Only some of the gas-producing wells yield inflammable gas, and even this seems to be considerably diluted by air. Methane is the principal hydrocarbon, although at least two wells yield small percentages of ethane and higher hydrocarbons.

Most wells are less than 300 feet deep; their gas comes from highly organic sediments in the [Pleistocene] Wyemaha formation. Some of the deeper wells may derive gas from pre-Lake Lahontan Quaternary sediments, but there has been no production from pre-Quaternary rocks.

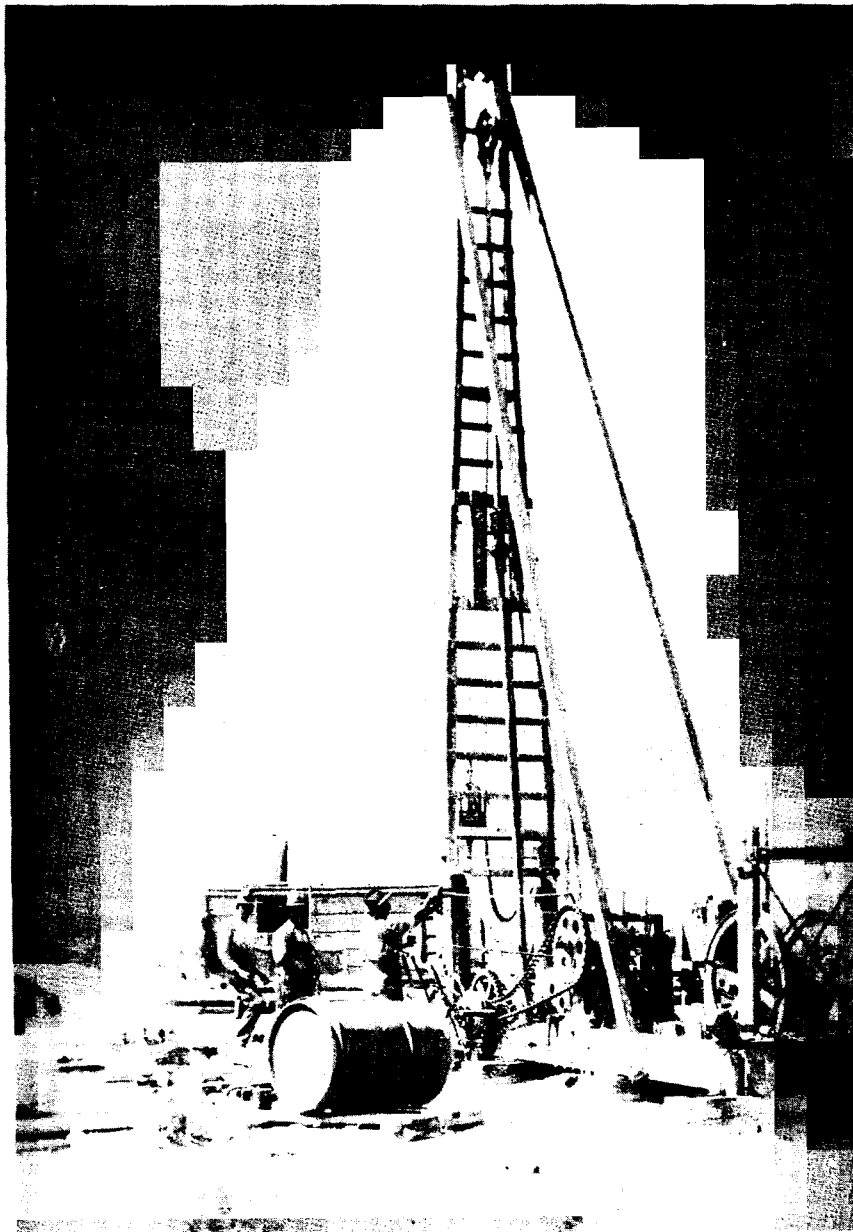


FIGURE 4.—Fallon Oil and Gas Co. drilling a well in the Carson Desert, Churchill County, circa 1920. Nevada Historical Society photo.

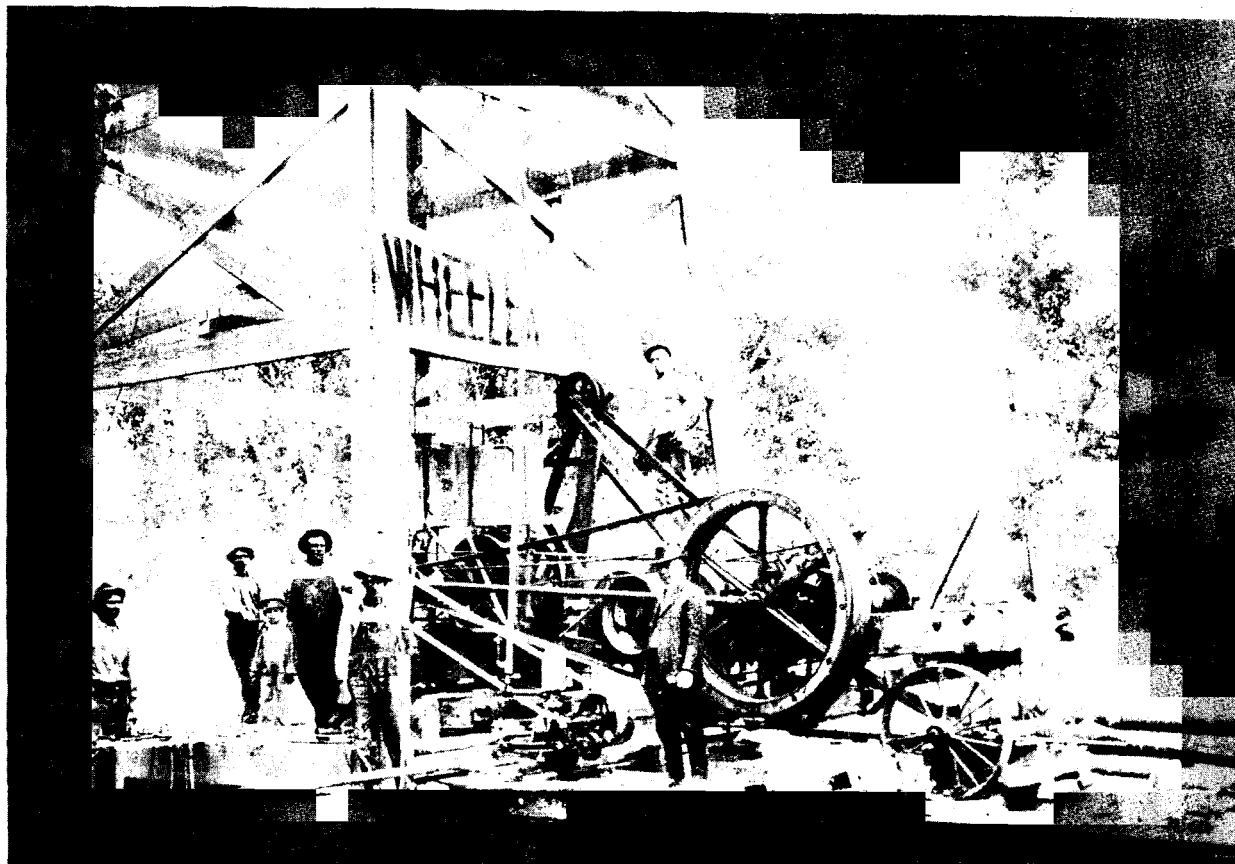


FIGURE 5.—Wheeler Oil Syndicate well, 1920's, Churchill County. Nevada Historical Society photo.

The first recognition of natural gas from the area was in 1865, when an oil claim was filed on a gas seepage at Soda Lake [secs. 7 and 8, T19N, R28E]. This seepage apparently now is inundated by the 55-foot rise of Soda Lake since development of the Newlands Reclamation Project. Two other reported former gas seeps, one in the SW $\frac{1}{4}$ sec. 27, T. 19 N., R. 28 E., and another in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 18 N., R. 29 E., have been covered and lost because of field leveling.

Occurrence of petroleum.—In 1911–12, a 909-foot test well (Timber Lake well) was drilled for the U.S. Geological Survey in sec. 30, T. 21 N., R. 30 E., about 14 miles northeast of Fallon, as part of the program of exploration for potash in the basins of the arid southwest. The log of this well (Gale, 1913) mentions that oil spots were observed in the sludge water at five horizons. These horizons probably are of Wymaha and (or) pre-Lake Lahontan Quaternary age. This is the only substantiated occurrence of petroleum in the area [before 1950, see below].

From 1919 to 1923 there was much excitement over the oil possibilities near Fallon. Several oil companies were promoted, and over a dozen test wells were drilled to depths ranging from a few hundred to 3,200 feet. Although some of these wells were alleged to have shows of oil, none of the reports have been substantiated, and most of them seem extremely unlikely. A few of the wells yielded minor amounts of gas.

Some of the oil and gas exploration wells drilled in Churchill County in the 1960's also reported shows, especially of shallow gas. Oil and gas shows, including free oil in vugs at the top of a core of basalt at 8,168 ft depth, were reported from the Standard-Amoco S. P. Land Co. No. 1 well drilled in 1974 in the eastern part of the Carson Sink. According to Hastings (1979), the

results of this drilling and other studies suggest that the Carson Sink contains a large volume of organic-rich oil-prone source rocks, but temperatures of these rocks are too low to generate significant amounts of oil.

Well Data

CALNEVA OIL CO.

Way Bros. No. 1

API no.: 27-001-05054

Permit no.: CH13

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T19N, R31E

200 ft from south line, 350 ft from west line

Elevation: 3,937 ft

Completed: Sept. 12, 1924

Status: D & A

Depth: 1,560 ft

CHURCHILL DRILLING CORP.

Barbara No. 1

API no.: 27-001-05007

Permit no.: 54

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T20N, R29E

Elevation: 3,910 ft

Completed: Sept. 29, 1961

Status: P & A

Depth: 400 ft

Tops:

Surface valley fill

Remarks: Valley fill and lakebeds to bottom. Good water reported from 300–340 ft.

CHURCHILL COUNTY (continued)

CHURCHILL DRILLING CORP.

Churchill County No. 1

API no.: 27-001-05010

Permit no.: 60

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T22N, R30E

990 ft from north line, 990 ft from west line

Elevation: 3,874 ft

Completed: Mar. 26, 1985

Status: D & A

Depth: 2,615 ft

Tops:

Surface valley fill

Remarks: Valley fill and lakebeds to bottom. Location may be 820 ft from the north line and 2,660 ft from the west line. Operator also identified as Falcon Gas & Petroleum. Gas show at 2,400 ft.

CHURCHILL DRILLING CORP.

Ernst No. 1

API no.: 27-001-05005

Permit no.: 45

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T18N, R29E

1,200 ft from north line, 425 ft from east line

Elevation: 3,969 ft

Completed: Oct. 10, 1960

Status: P & A

Depth: 3,822 ft

Tops:

Surface valley fill

Logs:

Driller 0-3,883 ft

ES 194-3,822 ft

Remarks: Valley fill and lakebeds to bottom. Good water at 26-130 ft. Junk in hole.

CHURCHILL DRILLING CORP.

Ernst No. 1-A

API no.: 27-001-05040

Permit no.: 49

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T18N, R29E

1,200 ft from north line, 425 ft from east line

Elevation: 3,928 ft

Completed: Nov. 10, 1960 (?)

Status: D & A

Depth: 506 ft

Remarks: Valley fill and lakebeds to bottom.

CHURCHILL DRILLING CORP.

Ernst No. 2

API no.: 27-001-05004

Permit no.: 47

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T18N, R29E

1,200 ft from north line, 425 ft from east line

Elevation: 3,928 ft

Status: D & A

Depth: 333 ft

Remarks: Valley fill and lakebeds to bottom.

CHURCHILL DRILLING CORP.

Evelyn No. 1

API no.: 27-001-05041

Permit no.: 52

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T18N, R29E

Elevation: 3,927 ft

Completed: 1961

Status: D & A

Depth: 232 ft

Remarks: Valley fill and lakebeds to bottom.

CHURCHILL DRILLING CORP.

Lima No. 1

API no.: 27-001-05000

Permit no.: 50

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T18N, R28E

1,520 ft from north line, 983 ft from west line

Elevation: 3,983 ft

Completed: Aug. 2, 1960

Status: D & A

Depth: 1,255 ft

Remarks: Valley fill and lakebeds to bottom.

CHURCHILL DRILLING CORP.

Reggie No. 1

API no.: 27-001-05003

Permit no.: 40

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T18N, R28E

673 ft from north line, 285 ft from east line

Elevation: 3,965 ft

Completed: Apr. 30, 1960

Status: D & A

Depth: 8,001 ft

Logs:

ES 2,800-6,164 ft

IES 4,903-7,673 ft

Driller 0-6,313 ft

Remarks: Valley fill and lakebeds to bottom. Reportedly deepened from 6,500 to 8,001 ft in 1961.

CHURCHILL DRILLING CORP.

Stewart No. 1

API no.: 27-001-05001

Permit no.: 44

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 10, T18N, R28E

242 ft from north line, 242 ft from east line

Elevation: 3,981 ft

Completed: July 20, 1960

Status: D & A

Depth: 2,827 ft

Logs:

Driller 0-2,827 ft

Remarks: Valley fill and lakebeds to bottom.

CHURCHILL DRILLING CORP.

T.C.I.D. No. 1

API no.: 27-001-05008

Permit no.: 61

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T22N, R30E

990 ft from north line, 990 ft from west line

Elevation: 3,875 ft

Completed: July 25, 1962

Status: D & A

Depth: 3,758 ft

Logs:

IES 2,608-3,757 ft

Remarks: Valley fill and lakebeds. Operator name may be Falcon Gas & Petroleum. Possibly located in sec. 14, 840 ft from north line, 2,640 ft from west line. Perforations at 3,125-3,150 ft produced salt water with some gas.

CHURCHILL DRILLING CORP.

Williams No. 1

API no.: 27-001-05002

Permit no.: 56
Location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T18N, R28E
338 ft from south line, 1,040 ft from east line
Elevation: 3,953 ft
Completed: June 20, 1961
Status: D & A
Depth: 4,750 ft
Logs:
IES 373-4,723 ft
Driller 0-4,750 ft
Remarks: Valley fill and lakebeds to bottom.

COUNCIL OIL CO.

No. 1

API no.: 27-001-05051
Permit no.: CH7
Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T20N, R32E
Elevation: 4,000 ft
Completed: 1921
Status: D & A
Depth: 300 ft

DIAMOND OIL CO.

No. 1

API no.: 27-001-05050
Permit no.: CH11
Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T18N, R31E
Elevation: 3,937 ft
Completed: 1922
Status: D & A
Depth: 1,700 ft

DIXIE VALLEY LTD. PARTNERSHIP

Ernst No. 1

API no.: 27-001-05064
Permit no.: 351
Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T18N, R29E
500 ft from south line, 1,100 ft from west line
Elevation: 3,927 ft
Completed: June 9, 1983
Status: P & A
Depth: 1,026 ft
Logs:
GR/N 800-1,016 ft
ES 590-1,026 ft
Remarks: Oil zone reported at 917-925 ft (heavy brown paraffin residual oil reported). Water zones at 540-545 ft and 760-763 ft (water rose to within 30 ft of the surface).

FALLON EXTENSION OIL & GAS CO.

No. 1

API no.: 27-001-05049
Permit no.: CH10
Location: center, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, T19N, R28E
Elevation: 3,937 ft
Completed: 1922
Status: D & A
Depth: 1,076 ft
Remarks: Water stands 16 ft below the top of the casing.

FALLON NEVADA OIL CO.

No. 1

API no.: 27-001-05052
Permit no.: CH8
Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T20N, R32E
Completed: 1921 (?)
Status: ?
Depth: 250 ft

FALLON OIL & GAS CO.

No. 1

API no.: 27-001-05045
Permit no.: CH3
Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T18N, R31E
200 ft from north line, 150 ft from west line
Elevation: 3,940 ft
Completed: 1921 (?)
Status: P & A
Depth: 1,327 ft

FALLON OIL & GAS CO.

No. 1-A

API no.: 27-001-05047
Permit no.: CH5
Location: E $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T19N, R31E
Elevation: 3,937 ft
Completed: 1921 (?)
Status: P & A
Depth: 400 ft

FALLON OIL & GAS CO.

No. 2

API no.: 27-001-05046
Permit no.: CH4
Location: center, SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, T18N, R31E
Elevation: 3,940 ft
Completed: 1921 (?)
Status: P & A
Depth: 705 ft

FALLON OIL & GAS CO.

No. 2-A

API no.: 27-001-05048
Permit no.: CH6
Location: NE corner, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T18N, R31E
Elevation: 3,937 ft
Completed: 1921 (?)
Status: D & A
Depth: 1,300 ft

FALLON PIONEER OIL CO.

No. 1

API no.: 27-001-04998
Permit no.: CH2
Location: S $\frac{1}{2}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T19N, R32E
Status: D & A
Depth: 1,540 ft
Tops:
Surface valley fill (TD)

FALLON UNION OIL CO.

No. 1

API no.: 27-001-05044
Permit no.: CH1
Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T19N, R26E
Status: D & A
Depth: 650 ft
Remarks: Claimed show of oil and gas at 585 ft.

HALBOUTY, MICHAEL T.

Federal No. 1

API no.: 27-001-05063
Permit no.: 181
Location: sec. 14, T17N, R28E
660 ft from south line, 1,650 ft from west line
Elevation: 3,927 ft

CHURCHILL COUNTY (continued)

Completed: Aug. 21, 1976

Status: P & A

Depth: 7,060 ft

Tops:

Surface	Quaternary 100 ft Pliocene 960 ft late Miocene
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Logs:

CN/FDL	518-7,077 ft
DIL	517-7,071 ft
BHCS	520-7,075 ft
DM	516-7,074 ft

Samples:

Cuttings	60-7,060 ft
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Remarks: Organic carbon analysis is available at NBMG.

HART, E. W.

No. 1

API no.: 27-001-05053

Permit no.: CH9

Location: NW¼SW¼ sec. 20, T19N, R31E

Elevation: 3,910 ft

Completed: 1922

Status: D & A

Depth: 200 ft

LAHONTAN OIL SYNDICATE

No. 1

API no.: 27-001-05056

Permit no.: CH14

Location: NE corner, NE¼SW¼ sec. 20, T18N, R31E

Elevation: 4,193 ft

Completed: Mar. 1926

Status: P & A

Depth: 2,015 ft

NEVADA GAS LANDS, INC.

Bono No. 11

API no.: 27-001-05042

Permit no.: 58

Location: NW¼SW¼SW¼ sec. 18, T17N, R29E

1,020 ft from south line, 410 ft from west line

Elevation: 3,920 ft

Completed: 1962

Status: D & A

Depth: 417 ft

Remarks: Well initially flowed water with some gas (Petroleum Information). Valley fill and lakebeds to bottom.

NEVADA GAS LANDS, INC.

Helen No. 1

API no.: 27-001-05043

Permit no.: 55

Location: NW¼NW¼NW¼ sec. 18, T17N, R29E

189 ft from north line, 137 ft from west line

Elevation: 4,100 ft

Completed: Sept. 1961

Status: D & A

Depth: 400 ft

Remarks: Well initially flowed water with some gas (2,000 cubic ft per day) from a Quaternary sand at 384-400 ft (Petroleum Information). Valley fill and lakebeds to bottom.

STANDARD OIL CO.

Standard-Amoco-S.P. Land Co. No. 1

API no.: 27-001-05062

Permit no.: 161

Location: center, NW¼ sec. 33, T24N, R33E

660 ft from north line, 660 ft from west line

Elevation: 3,877 ft

Completed: Oct. 10, 1985

Status: P & A

Depth: 11,000 ft

Tops:

125 ft	Pleistocene Eetza Fm.
560 ft	Pleistocene Paiute Fm.
665 ft	Pleistocene Rye Patch Fm.
2,040 ft	Pleistocene Lovelock Fm.
2,075 ft	Pleistocene Humboldt Valley Fm.
2,985 ft	Pleistocene
3,165 ft	Pliocene Truckee Fm.
6,950 ft	Pliocene Desert Peak Fm.
9,470 ft	Pliocene
10,240 ft	Oligocene and Miocene tuffs

Logs:

Lithologic	73-11,000 ft
BHCS	375-875 ft
FDC/GR	373-872 ft
IES	375-874 ft
DIL	375-10,996 ft
CNL	877-11,000 ft
Micro-seismogram	186-3,063 ft
DM	877-11,002 ft

Samples:

Cuttings	4-11,000 ft
Core	5,145-5,169 ft

Remarks: Core and sidewall sample descriptions available at NBMG. Oil and gas shows at 4,500-8,400 ft. Free oil was found in a core of basalt at 8,168 ft (Hastings, 1980). DST's at 3,076-3,708 ft and 3,020-3,050 ft had gas (methane) shows and at 8,104-8,208 ft oil and gas shows.

SYNDICATE OIL CO.

No. 1

API no.: 27-001-04999

Permit no.: CH12

Location: N¼SW¼ sec. 18, T17N, R29E

Elevation: 3,918 ft

Completed: 1923

Status: P & A

Depth: 3,200 ft

Tops:

Surface	Pleistocene Fallon Fm.
20 ft	Pleistocene Sehoo Fm.
45 ft	Pleistocene Wyemaha Fm.

Logs:

Lithologic	0-2,735 ft
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Remarks: Several gas shows and one oil show reported (Lintz, 1957a), including a strong gas show at 3,147-3,152 ft (Morrison, 1964, p. 151). The operator is also known as Miller Syndicate Oil & Gas Co.

THORPE, H.B. (LANE & THORPE)

Carson Sink No. 1

API no.: 27-001-05061

Permit no.: 72

Location: center, SE¼NW¼ sec. 19, T22N, R30E

Elevation: 3,880 ft

Completed: Dec. 8, 1963

Status: P & A

Depth: 2,805 ft

Logs:

S	400-2,790 ft
IES	400-2,794 ft

Remarks: Oil zone reported at 990-1,000 ft. Gas zone reported at 2,200-2,600 ft. Well flowed water at 100 GPM. Possibly

located in sec. 18, 350 ft from south line, 360 ft from west line.

UNION OIL CO.

S. P. Brady No. 1

API no.: 27-001-90010

Permit no.: 166

Location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T22N, R26E

746 ft from south line, 1,349 ft from east line

Elevation: 4,149 ft

Completed: July 13, 1974

Status: Geothermal well

Depth: 7,275 ft

Logs:

Lithologic	0-7,240 ft
TS	450-5,665 ft
CNL/FDC	1,044-5,708 ft
IES	1,044-5,708 ft

Remarks: Put in production July 13, 1974. Water zone at 2,120 ft, static water level \pm 25 ft from surface flowing intermittently steam and hot water at various rates. Bottom-hole temperature was 298°F. This information as of October 11, 1984.

CLARK COUNTY

The first exploration well known to have been drilled in Clark County was completed in 1929 near Arden, 15 miles southwest of Las Vegas. An area near Mesquite in the northeastern part of the county was touted as a prospective oil area (Nevada State Journal, 1929), but no wells are known to have been drilled in Nevada as a result of the promotion.

Some sporadic drilling was done in the 1940's, but the more serious efforts began in 1950, when exploration throughout Nevada increased significantly. Although a number of wells have reported oil shows, the lack of a discovery and the general decrease in Nevada drilling in the late 1960's and early 1970's resulted in few wells being drilled in Clark County until the early 1980's. Some of these recent wells were drilled to test the possibility of "overthrust belt" oil fields like those in western Wyoming and northeastern Utah. Nevada's deepest (19,562 ft) well, the Mobil Oil Corp. Virgin River U.S.A. No. 1-A was drilled in Clark County in 1980 as an unsuccessful overthrust test.

Well Data

BANNISTER, E. W.

No. 1

API no.: 27-003-05055

Permit no.: CL4

Location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T21S, R60E

500 ft from south line, 1,800 ft from west line

Elevation: 2,750 ft

Completed: August 1929

Status: P & A Depth: 522 ft

Remarks: A shallow test of the Arden Dome (Lintz, 1957a, p. 21).

BIG BASIN OIL CO.

Government No. 1

API no.: 27-003-05042

Permit no.: CL24

Location: center, SE $\frac{1}{4}$ sec. 17, T23S, R61E

1,320 ft from south line, 1,320 ft from east line

Elevation: 2,000 ft (?)

Completed: May 31, 1953

Status: D & A

Depth: 900 ft or 1,180 ft

Remarks: A ditch sample from near the bottom of the hole was a white crystalline limestone, probably Mississippian age (Lintz, 1957a, p. 25).

BLACK GOLD OIL AND GAS EXPLORATION CO. (INTERMOUNTAIN ASSOCIATION)

No. 1 (Golden Spike)

API no.: 27-003-05052

Permit no.: CL26

Location: S $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, T23S, R59E

405 ft from south line, 555 ft from west line

Elevation: 2,800 ft (estimate)

Completed: Sept. 1953

Status: D & A

Depth: 1,670 ft

Tops:

Surface	alluvium
1,380 ft	Mississippian

Remarks: Water in hole at 200-300 ft. Slight odor of gas in water.

BONANZA OIL CO.

Arden Dome No. 1

(Consolidated Government No. 1)

API no.: 27-003-05007

Permit no.: 34

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T21S, R60E

2,052 ft from south line, 1,919 ft from west line

Elevation: 2,620 ft

Completed: Aug. 28, 1959

Status: P & A

Depth: 3,282 ft

Tops:

2,700 ft	Pennsylvanian
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Remarks: Oil show reported at 740 ft. Oil and gas shows at 1,500 ft and 1,700 ft (Supai Fm.). Two ft of oil sand near 1,600 ft. Gas shows at 3,056-3,072 ft (Bird Spring Fm.), oil shows at 3,239-3,260 ft. Bottomed in shale and hard limestone. Well re-entered and logged in 1970 (Bissell, 1973, p. 75) as the Time Petroleum Inc. Federal no. 31-1 (Permit no. 148). The DST recovered 2,700 ft of fresh water in a 1-hour test.

BRAY, OSCAR

No. 1

API no.: 27-003-05014

Permit no.: CL28

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T28S, R62E

Elevation: 4,300 ft

Completed: May 11, 1962

Status: D & A

Depth: 840 ft

BROWN, JOE W.

Wilson No. 1

API no.: 27-003-05008

Permit no.: 33

Location: center, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T21S, R61E

660 ft from N line, 660 ft from west line

Elevation: 2,100 ft

Completed: Mar. 1, 1957

CLARK COUNTY (continued)

Status: Water well

Depth: 8,508 ft

Tops:

3,030 ft	Eocene(?) Horse Spring Fm.
3,100 ft	Triassic or Pliocene Moenkopi or Muddy Creek Fms.
4,000 ft	Cretaceous(?) or Tertiary(?) Overton Fanglomerate
4,230 ft	Cretaceous Baseline Ss.
4,475 ft	Permian Kaibab Ls.
5,270 ft	Permian Supai Fm.
6,150 ft	Permian-Pennsylvanian Bird Spring Fm.

Logs:

Lithologic	2,615-6,400 ft
IES	1,187-8,501 ft
N	2,600-6,550 ft
DM	2,510-6,130 ft
TS	3,000-5,968 ft
ML	2,440-7,380 ft

Samples:

Cutting	4,260-8,485 ft
Core	2,630-7,095 ft

Remarks: Well was plugged below 6,050 ft and converted to a hot (137°F) artesian water well. Rate of flow 400 bbl water/hr plus. Oil shows reported in Permian rocks, possibly Toroweap or Kaibab Formations. (Bissell, 1973, p. 70). Other sporadic shows reported from 2,600-8,250 ft.

CHEVRON U.S.A., INC.- MICHEL T. HALBOUTY ENERGY CO.

Colorock Quarry No. 1

API no.: 27-003-05209

Permit no.: 319

Location: SE¼SW¼SE¼ sec. 22, T18S, R65E

1,820 ft from east line, 380 ft from south line

Elevation: 2,912 ft at DF

Completed: Feb. 28, 1983

Status: P & A

Depth: 10,030 ft

Logs:

DLL/SFL/GR	82-10,010 ft
LDT/CNL	1,298-10,014 ft
ML/MLL	1,298-10,010 ft
DM	1,398-10,010 ft
BHCS	82-10,002 ft
FIL	4,879-10,010 ft
Cyberlook	1,300-10,010 ft
Delta chloride	300-10,030 ft
Lithologic	80-10,030 ft
Pressure evaluation profile	0-10,030 ft

Samples:

Cuttings	140-10,030 ft
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Remarks: Gas-cut mud in DST, 8,200-8,475 ft. No cuttings were recovered from 4,700-4,840 ft, and one DST failed.

COMMONWEALTH OIL CO.

No. 1

API no.: 27-003-05056

Permit no.: CL5

Location: NE¼NE¼SW¼ sec. 31, T21S, R60E

2,380 ft from south line, 2,380 ft from west line

Elevation: 2,750 ft

Completed: Feb. 1939

Status: P & A

Depth: 1,897 ft

Tops:

Surface	alluvium
300-500 ft	Permian Supai Fm.
975-TD ft	Pennsylvanian Bird Spring Ls.

Remarks: Gas show at 800-805 ft. Oil show at 1,560-1,575 ft (Lintz, 1957a, p. 19).

EQUALITY OIL CO. (ARDEN DOME OIL CO.)

Chadek No. 1

API no.: 27-003-05009

Permit no.: 62

Location: NW¼SW¼NE¼ sec. 10, T22S, R60E

1,659 ft from N line, 2,435 ft from east line

Elevation: 2,560 ft

Status: P & A

Depth: 1,627 ft

Tops:

1,000 ft	Permian Supai Fm.(?)
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Remarks: Water encountered at 418 ft and 580 ft. Fish in hole.

FLEETWOOD OIL & GAS CORP.

Fleetwood Federal Eva Garten No. 1

API no.: 27-003-05208

Permit no.: 299

Location: SW¼SW¼ sec. 11, T23S, R61E

520 ft from south line, 674 ft from west line

Elevation: 2,541 ft

Completed: Dec. 5, 1980

Status: P & A

Depth: 2,850 ft

Logs:

FDC/N	300-2,849 ft
DIL	300-2,849 ft
MLL	2,000-2,849 ft
Computer	300-2,850 ft
Continuous	300-2,850 ft
cross plot	

Formation tester 2,800-2850 ft

Remarks: Oil shows at: 295-320 ft, 340-345 ft, 520-530 ft, 895-900 ft, and 1,520-1,525 ft. Gas shows at 895-910 ft, and 1,075-1,090 ft. Oil and gas show at 1,640-1,660 ft.

FLEETWOOD OIL & GAS CORP.

Fleetwood Federal Ger No. 1

API no.: 27-003-05207

Permit no.: 298

Location: SE¼SE¼ sec. 10, T23S, R61E

Elevation: 2,534 ft

Completed: Oct. 2, 1981

Status: P & A

Depth: 933 ft

Logs:

GR/N	0-797 ft
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Remarks: Oil and gas show at 735-747 ft. Oil show at 792-800 ft.

G AND G EXPLORATION CO.

No. 1

API no.: 27-003-04996

Permit no.: CL17

Location: SE¼NE¼NW¼ sec. 14, T17S, R64E

700 ft from north line, 370 ft from east line

Completed: Sept. 28, 1949

Status: D & A

Depth: 1,130 ft

Remarks: Strong oil and gas show at 1,117-1,127 ft.

GOODSPRINGS OIL CO.**No. 1**

API no.: 27-003-05066

Permit no.: CL3

Location: SE 1/4 NW 1/4 NE 1/4 sec. 26, T24S, R58E

Elevation: 3,700 ft

Status: D & A

Depth: 370 ft

Remarks: New Haven Co. wells located about 700 ft south (Lintz, 1957a, p. 29).

GRACE PETROLEUM CORP.**Arrow Canyon No. 1**

API no.: 27-003-05211

Permit no.: 329

Location: NW 1/4 SW 1/4 sec. 14, T18S, R63E

1,985 ft from south line, 665 ft from west line

Elevation: 2,208 ft

Completed: Oct. 11, 1982

Status: P & A

Depth: 17,110 ft

Tops:

6,764 ft	Cambrian Carrara Fm.
16,090 ft	Mississippian Chainman Sh.
16,307(?) ft	Mississippian Yellowpine Ls.
16,383? ft	Mississippian Monte Cristo Ls.

Logs:

Lithologic	30-17,110 ft
GR	11,750-17,075 ft
CNL	1,018-17,108 ft
BHCS	40-17,103 ft
DLL	40-17,095 ft
FDC	11,192-17,103 ft
Porosity	1,050-17,100 ft
DM	1,026-17,110 ft
Directional	1,026-17,110 ft
CBL	12,500-16,973 ft
Fracture	11,192-17,110 ft
TS	14,650-17,008 ft

Remarks: Minor dry gas show at 16,350-16,352 ft. Geologic units reported (not tops) and associated depths at which they were encountered: Cambrian Bonanza King Fm.—5,712 ft; Cambrian Carrara Fm.—8,375 ft; Permian—9,435 ft and 14,342 ft; Pennsylvanian Bird Spring Fm.—15,275; Mississippian Battleship Wash Fm.—16,105(?); Mississippian Bullion Ls.—16,386-16,416 ft; Mississippian Anchor Ls.—17,067-17,100. See also tops above.

GRIMM, JACK F. (MINERALS DRILLING INC.)**Wilson No. 1**

API no.: 27-003-05070

Permit no.: 91

Location: center NW 1/4 SE 1/4 sec. 9, T22S, R60E

1,980 ft from south line, 1,980 ft from west line

Elevation: 2,658 ft

Completed: Dec. 28, 1965

Status: P & A

Depth: 5,686 ft

Tops:

2,380 ft	Permian-Pennsylvanian Bird Spring Gp.
3,950 ft	Mississippian 4,600 ft Devonian (from PI)

Logs:

Lithologic	1,590-5,686 ft
ES	3,530-5,647 ft

Remarks: Water zones at 455-519 ft, 650-680 ft, 855-880 ft, and 1,372-1,433 ft. Water flowed at 1,800-1,856 ft,

2,850-2,900 ft, 2,940-3,030 ft, 3,090-3,530 ft, and 4,033-4,091 ft. Helium was encountered at 1,870-1,900 ft (Bissell, 1973, p. 74).

HAEBER, JOHN H.**Adam No. 1**

API no.: 27-003-05204

Permit no.: 156

Location: SE 1/4 NE 1/4 sec. 18, T17S, R65E

1,880 ft from north line, 816 ft from east line

Elevation: 2,090 ft at KB

Completed: Sept. 11, 1973

Status: P & A

Depth: 3,496 ft

Logs:

CN/FDC	496-3,297 ft
DLL	496-3,287 ft
DM	505-3,298 ft

Remarks: This well was a re-entry of the Southern Great Basin Oil & Gas Inc. Government No. 1, which was drilled to a depth of 5,085 ft and P & A on Sept. 3, 1957.

HALL CO., FRANK**No. 1**

API no.: 27-003-04997

Permit no.: CL1

Location: T18S, R65E (?)

Status: D & A

Depth: 1,005 ft

Logs:

Lithologic	0-1,005 ft
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HATFIELD, L. M.**No. 1**

API no.: 27-003-05057

Permit no.: CL2

Location: SW 1/4 SW 1/4 NW 1/4 sec. 20, T22S, R60E

200 ft from south line, 200 ft from west line

Elevation: 2,800 ft

Status: D & A

Depth: 707 ft

Logs:

Driller

Remarks: Driller's log in Lintz (1957a, p. 23-24)

INTERMOUNTAIN ASSOCIATES, INC.**Arden Dome No. 1 (No. 1 X)**

API no.: 27-003-05051

Permit no.: 8

Location: SW 1/4 SW 1/4 SW 1/4 sec. 23, T23S, R59E

525 ft from south line, 518 ft from west line

Elevation: 3,700 ft

Completed: 1955

Status: P & A

Depth: 3,293 ft

Tops:

Surface	alluvium
1,100 ft	Mississippian

Remarks: Oil and gas shows reported at 2,919-2,930 ft, 2,960-2,970 ft, and 3,095-3,106 ft.

INTERMOUNTAIN ASSOCIATES, INC.**No. 2 (Jean)**

API no.: 27-003-05053

Permit no.: 7

Location: SE 1/4 NE 1/4 NE 1/4 sec. 1, T25S, R59E

869 ft from north line, 339 ft from east line

CLARK COUNTY (continued)

Elevation: 2,890 ft
 Completed: 1954
 Status: P & A
 Depth: 2,273 ft

IWING, JOSEPH & ASSOCIATES**Petresia No. 1**

API no.: 27-003-04995
 Permit no.: CL18
 Location: sec. 14, T17S, R64E
 700 ft from south line, 320 ft from west line
 Completed: Jan. 11, 1950
 Status: D & A
 Depth: 1,130 ft

JAYHAWK EXPLORATION, INC.**Federal-Indian Springs No. 1**

API no.: 27-003-05212
 Permit no.: 344
 Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T17S, R57E
 673 ft from north line, 660 ft from east line
 Elevation: 3,963 ft
 Completed: Oct. 27, 1982
 Status: P & A
 Depth: 5,583 ft

Logs:

DI	598-5,472 ft
S	598-5,475 ft
GR/N/FDL	598-5,475 ft
CN/GR	598-5,475 ft
DM	598-5,478 ft
Litholog	10-5,583 ft
Cyberdip	598-5,478 ft

Samples:

Cuttings	67-5,520 ft
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KAMARDEN OIL AND GAS LTD.**KOG No. 1**

API no.: 27-003-05200
 Permit no.: 132
 Location: center, NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T22S, R60E
 910 ft from south line, 380 ft from east line
 Elevation: 2,561 ft
 Completed: July 20, 1970
 Status: P & A
 Depth: 6,760 ft

Tops:

330 ft	Permian Kaibab(?) and Toroweep(?) Fms.
?	Permian Hermit and Queantoweep Fms.
2,225 ft	Permian Bird Spring Gp.
3,835 ft	Mississippian
6,275 ft	mid-Cambrian
6,280 ft	Cambrian Chisholm Sh.
6,350 ft	Cambrian Lyndon Ls.
6,415 ft	Cambrian Pioche Sh. (from PI)

Logs:

IES	324-6,759 ft
Litholog	330-6,755 ft

Samples:

Cuttings	330-6,750 ft
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Remarks: Water sands at 450-550 ft, 1,200-1,600 ft, 1,775-1,900 ft, and 3,075-3,210. Strong odors of oil and gas at about 1,200 ft, oil and gas shows at 1,750 ft and 1,950 ft (Bissell, 1973, p. 74).

LAST CHANCE OIL CO.**Crystal No. 1**

API no.: 27-003-05069
 Permit no.: CL20
 Location: NW $\frac{1}{4}$ sec. 11, T17S, R64E
 Elevation: 2,120 ft
 Completed: 1950
 Status: D & A
 Depth: 1,002 ft
 Remarks: Possibly reopened for deepening in 1952 (Lintz, 1957a, p. 17-18).

LICHTENWALTER, S. J. & TURPIN, C. M.**Turpin No. 1**

API no.: 27-003-05001
 Permit no.: 51
 Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T20S, R59E
 1,770 ft from north line, 710 ft from east line
 Elevation: 3,860 ft at DF
 Completed: July 14, 1961
 Status: P & A
 Depth: 1,725 ft
 Tops (from PI):
 Surface Permian (TD)

Remarks: Oil shows at 307-777 ft (810 ft?). Water flow encountered at 1,668-1,678 ft. Well reportedly made $\frac{1}{2}$ barrel of high-gravity oil per hour after acidizing.

MATADOR OIL CO.**No. 29-1X**

API no.: 27-003-04998
 Permit no.: CL27
 Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, T22S, R60E
 Completed: Apr. 26, 1957
 Status: D & A
 Depth: 1,320 ft

McAULEY ASSOCIATES**No. 1**

API no.: 27-003-05040
 Permit no.: CL23
 Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T21S, R62E
 Elevation: 1,660 ft
 Completed: Mar. 24, 1953
 Status: D & A
 Depth: 3,000 ft

McAULEY ASSOCIATES**No. 2**

API no.: 27-003-05041
 Permit no.: CL21
 Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, T21S, R62E
 Elevation: 1,650 ft (from Lintz, 1957a, p. 27)
 Completed: 1953
 Status: D & A
 Depth: 2,268 ft (?)

MOAPA NEVADA OIL & GAS CO.**Logandale No. 1**

API no.: 27-003-05000
 Permit no.: 28
 Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T15S, R67E
 370 ft from south line, 30 ft from east line
 Completed: Apr. 26, 1957
 Status: D & A
 Depth: 595 ft

MOBIL OIL CORP.**Virgin River U.S.A. No. 1**

API no.: 27-003-05205

Permit no.: 260

Location: SE 1/4 SW 1/4 sec. 9, T15S, R68E

660 ft from south line, 1,550 ft from west line

Elevation: 1,902 ft

Completed: 1979

Status: D & A

Depth: 1,202 ft

Remarks: Split casing problems; well redrilled 8 ft away as the Mobile Oil Corp. Virgin River U.S.A. No. 1-A.

MOBIL OIL CORP.**Virgin River U.S.A. No. 1-A**

API no.: 27-003-05206

Permit no.: 272

Location: SE 1/4 SW 1/4 sec. 9, T15S, R68E

654 ft from south line, 1,554 ft from west line

Elevation: 1,905 ft

Completed: May 23, 1980

Status: D & A

Depth: 19,562 ft

Tops:

Surface	Pliocene Muddy Creek Fm.
?	Miocene Horse Spring Fm.
6,702 ft	undifferentiated clastics
7,718 ft	Triassic Chinle Fm.
9,105 ft	Triassic Moenkopi Fm.
11,035 ft	Permian Kaibab Ls.
12,105 ft	Permian Coconino Ss.
15,075 ft	Pennsylvanian Callville Ls.
18,000 ft	Mississippian Redwall Ls.
19,146 ft	basement (diorite, monzonite)

Logs:

DM	1,194-19,518 ft
DI	50-19,536 ft
MLL	14,700-15,634 ft
DLL	9,300-19,562 ft
BHCS	1,194-19,434 ft
FDC/N	1,194-19,511 ft
CNL	50-1,158 ft
Borehole geometry	1,194-5,040 ft
Lithologic	80-19,562 ft
Fracture ident.	11,977-14,928 ft
Directional	5,018-19,520 ft

Samples:

Cuttings 40-19,562 ft

Remarks: Permeability and porosity tests on core at 14,907-14,935 ft. Water analysis of four DST's. Nevada's deepest well (as of 1986).

NEVADA EXPLORATION CO.**Porter No. 1**

API no.: 27-003-05012

Permit no.: CL15

Location: S 1/2 NE 1/4 SW 1/4 sec. 13, T23S, R60E

1,650 ft from south line, 1,980 ft from west line

Elevation: 2,860 ft

Completed: 1948

Status: D & A (?)

Depth: 2,002 ft or 2,019 ft

Tops:

Surface	alluvium
15 ft	Pennsylvanian Bird Spring Fm.
350 ft	Mississippian-Devonian dol.
	(Lintz, 1957a, p. 26)

Remarks: Fresh water was swabbed from several intervals.

NEW HAVEN OIL CO.**No. 1**

API no.: 27-003-05060

Permit no.: CL8

Location: SE 1/4 SW 1/4 NE 1/4 sec. 26, T24S, R58E

Elevation: 3,695 ft

Completed: 1947

Status: D & A

Depth: 716 ft

Tops:

Surface alluvium

Remarks: Located on what was thought to be an oil seep but was later identified as diesel fuel that had leaked from nearby storage tanks of a local mining company. Driller's log in Lintz (1957a, p. 26-28).

NEW HAVEN OIL CO.**No. 2**

API no.: 27-003-05061

Permit no.: CL9

Location: SE 1/4 SW 1/4 NE 1/4 sec. 26, T24S, R58E

Elevation: 3,695 ft

Completed: 1947

Status: D & A

Depth: 405 ft

Remarks: The New Haven Oil Company No. 1 through No. 6 wells are all located within 10-20 ft of one another. Located on what was thought to be an oil seep but was later identified as diesel fuel that had leaked from nearby storage tanks of a local mining company. No logs are available for Wells No. 2 through 6 but they should be the same as the New Haven Oil Co. No. 1.

NEW HAVEN OIL CO.**No. 3**

API no.: 27-003-05062

Permit no.: CL10

Location: SE 1/4 SW 1/4 NE 1/4 sec. 26, T24S, R58E

Elevation: 3,695 ft

Completed: 1947

Status: D & A

Depth: 200 ft

Remarks: See New Haven Oil Co. No. 2.

NEW HAVEN OIL CO.**No. 4**

API no.: 27-003-05063

Permit no.: CL11

Location: SE 1/4 SW 1/4 NE 1/4 sec. 26, T24S, R58E

Elevation: 3,695 ft

Completed: 1947

Status: D & A

Depth: 226 ft

Remarks: See New Haven Oil Co. No. 2.

NEW HAVEN OIL CO.**No. 5**

API no.: 27-003-05064

Permit no.: CL12

Location: SE 1/4 SW 1/4 NE 1/4 sec. 26, T24S, R58E

Elevation: 3,695 ft

Completed: 1947

Status: D & A

Depth: 40 ft

Remarks: See New Haven Oil Co. No. 2.

NEW HAVEN OIL CO.**No. 6**

API no.: 27-003-05065

CLARK COUNTY (continued)

Permit no.: CL13
Location: SE 1/4 SW 1/4 NE 1/4 sec. 26, T24S, R58E
Elevation: 3,695 ft
Completed: 1947
Status: D & A
Depth: 130 ft
Remarks: See New Haven Oil Co. No. 2.

PERMIAN OIL CO.

Schwartz No. 1
API no.: 27-003-04994
Permit no.: CL14
Location: SW 1/4 NE 1/4 sec. 26, T24S, R58E
Completed: 1948
Status: D & A
Depth: 550 ft

PHELPS, C.P.

Phelps No. 1
API no.: 27-003-05201
Permit no.: 133
Location: NE 1/4 NE 1/4 sec. 35, T15S, R65E
330 ft from N line, 330 ft from east line
Elevation: 1,800 ft
Completed: Aug. 1970
Status: D & A
Depth: 1,625 ft
Logs:
ES 356-1,617 ft
Driller 0-1,625 ft
Remarks: Trace of water at 95 ft.

RED STAR OIL CO.

J. B. Nelson No. 1
API no.: 27-003-05058
Permit no.: CL6
Location: SE 1/4 NW 1/4 SE 1/4 sec. 20, T22S, R60E
Elevation: 2,631 ft
Completed: 8 Oct 43
Status: D & A
Depth: 2,210 ft
Tops:
Surface Permian Supai Fm.
1,524 ft Permian and Pennsylvanian
Bird Spring Ls.

Logs:
Driller 0-1,897 ft
Remarks: This well was redrilled 20 ft to the east as J. B. Nelson No. 2 because of the loss of drill tools down the well. Possibly in NE 1/4 NW 1/2 or SW 1/4 of sec. 20 (Miller, 1944).

RED STAR OIL CO. (J.B. NELSON)

J. B. Nelson No. 2
API no.: 27-003-05059
Permit no.: CL7
Location: SE 1/4 NW 1/4 SE 1/4 sec. 20, T22S, R60E
Elevation: 2,631 ft
Completed: Mar. 15, 1945
Status: D & A
Depth: 3,767 ft
Tops:
Surface Permian Supai Fm.
1,524 ft Permian and Pennsylvanian
Bird Spring Fm.

Logs:
ES 924-3,342 ft

Remarks: Hydrocarbons were reported at 3,204 ft from core cut with carbon tetrachloride. This hole was a redrill after tools were lost in the J. B. Nelson No. 1 hole. Unconfirmed reports of good oil shows at 3,300-3,340 ft (Bissell, 1973, p. 74).

REDI CORP.

Gold Butte KPS Fed. No. 1

API no.: 27-003-05214
Permit no.: 426
Location: center, NE 1/4 NE 1/4 NE 1/4 sec. 23, T18S, R70E
330 ft from north line, 330 ft from east line
Elevation: 2,810 ft
Completed: Feb. 1, 1986
Status: P & A (?)
Depth: 2,313 ft
Remarks: This well may be completed as a water well.

ROSEN OIL CO.

Muddy Dome No. 1

API no.: 27-003-05003
Permit no.: 87
Location: center, SW 1/4 NW 1/4 sec. 7, T20S, R65E
560 ft from south line, 238 ft from west line
Elevation: 2,305 ft
Completed: Oct. 28, 1965
Status: P & A
Depth: 5,666 ft
Tops:
Surface Jurassic Aztec Ss.
1,648 ft Jurassic Chinle Fm.
2,730 ft Jurassic Shinarump Mbr.
(Chinle Fm.)
2,837 ft Jurassic Moenkopi Fm.
4,503 ft Permian Kaibab Ls.
4,700 ft Permian Toroweap Fm.
5,083 ft Permian Coconino Ss.
5,196 ft Permian Supai Fm.
5,450 ft fault
Remarks: A probable fresh water zone at 3,930-4,030 ft. A salt water zone at 5,030-5,060 ft. Located on the Gale anticline (Bissell, 1973, p. 70).

SANDIA INTERNATIONAL METALS CORP.

Duff No. 1

API no.: 27-003-05202
Permit no.: 145
Location: SE 1/4 SW 1/4 sec. 34, T25S, R60E
310 ft from south line, 1,710 ft from west line
Elevation: 3,140 ft
Completed: June 1970
Status: P & A
Depth: 438 ft

SASTEX OIL & GAS

Jones No. 1

API no.: 27-003-04999
Permit no.: CL29
Location: NE 1/4 NW 1/4 sec. 4, T23S, R60E
Elevation: 2,905 ft
Completed: May 10, 1963
Status: D & A
Depth: 25 ft

SHELL OIL CO.

Bowl of Fire Unit No. 1

API no.: 27-003-05004

Permit no.: 38
Location: SW¼SW¼ sec. 5, T20S, R66E
Elevation: 2,044 ft
Completed: July 13, 1959
Status: P & A
Depth: 5,919 ft
Tops:

Surface	Triassic Moenkopi Fm.
1,090 ft	Permian Kaibab Ls.
1,430 ft	Permian Toroweap Fm.
1,875 ft	Permian Coconino Ss.
1,975 ft	Permian Hermit Fm.
2,920 ft	Permian Pakoon Fm.
3,720 ft	Pennsylvanian Callville Ls.
4,435 ft	Mississippian Chainman Sh.
4,571 ft	Mississippian Monte Cristo Ls.
5,175 ft	Devonian Sultan Ls.
5,700 ft	Ordovician Pogonip Fm.
5,830 ft	Cambrian

Logs:
GR/N 30-5,915 ft
IES 748-5,909 ft
Driller 0-5,919 ft
Lithologic 0-5,919 ft

Samples:
Core 877-897 ft
Core 4,455-4,555 ft
Core 5,060-5,078 ft
Core 5,681-5,691 ft

Remarks: Oil show at 877 ft. Wiese (1960) reports oil shows in Triassic, Permian, and Mississippian rocks.

SMITHDEAL, W. T., JR.

U.S. Lease No. 1
API no.: 27-003-05013
Permit no.: 31
Location: SE¼SW¼NW¼ sec. 17, T23S, R61E
227 ft from south line, 225 ft from east line
Elevation: 2,675 ft
Completed: 1956
Status: D & A
Depth: 306 ft

SOUTHERN GREAT BASIN OIL & GAS, INC.

Government No. 1
API no.: 27-003-05054
Permit no.: 13
Location: NE¼NE¼NE¼ sec. 18, T17S, R65E
350 ft from north line, 350 ft from east line
Elevation: 2,122 ft or 2,142 ft
Completed: Aug. 1954
Status: P & A
Depth: 5,085 ft
Logs:
Lithologic 1,000-4,120 ft
Remarks: Gas shows at 2,210 ft and at 2,667-2,695 ft. Oil and gas show at 3,280 ft. Well abandoned in probable Tertiary Horse Spring Fm. (Bissell, 1973, p. 71). Redrilled as John A. Haerber-Adam No. 1.

SOUTHERN NEVADA OIL INVESTORS CO. (POZIL, JOHNSON, AND KRUG)

Apex No. 1
API no.: 27-003-05068
Permit no.: CL19
Location: NE¼NE¼NW¼ sec. 7, T18S, R64E
260 ft from north line, 2,275 ft from west line
Elevation: 2,041 ft

Completed: Aug. 6, 1950
Status: D & A
Depth: 1,455 ft

SUN EXPLORATION & PRODUCTION CO.

Blue Diamond Federal No. 1

API no.: 27-003-05240
Permit no.: 462
Location: SE¼SE¼ sec. 25, T21S, R59E
279 ft from south line, 128 ft from east line
Elevation: 2,695 ft
Completed: Mar. 20, 1986
Status: P & A
Depth: 6,220 ft
Tops:

Surface	Jurassic Moenkopi Fm.
790 ft	Permian Kaibab Ls.
1,070 ft	Permian Toroweap Fm.
1,350 ft	Permian Supai Fm.
2,696 ft	Permian and Pennsylvanian
	Bird Spring Ls.
4,000 ft	Mississippian Monte Cristo Ls.

Logs:
Mud 60-6,220 ft
LSS/GR 40-1,353 ft
DM 1,359-6,204 ft
CNL/FDC 1,359-6,204 ft
DI 40-6,201 ft
BHCS 1,359-6,171 ft
GR 1,360-6,188 ft
EP 58-6,188 ft

Samples:
Cuttings 59-5,910 ft

Remarks: Cuttings at 5,910-6,210 ft were not recovered. Gas shows at 316-360 ft and 482-570 ft.

TIME PETROLEUM INC.

Federal No. 31-1
API no.: 27-003-05203
Permit no.: 148
Location: center, NE¼SW¼ sec. 31, T21S, R60E
2,052 ft from south line, 1,919 ft from west line
Elevation: 2,620 ft
Completed: Feb. 25, 1971
Status: D & A
Depth: 3,260 ft
Tops:

2,700 ft	Pennsylvanian
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Logs:
Driller 0-3,260 ft
Radioactive tracer 2,580-2,928 ft
TS 0-3,018 ft
Cal 1,250-3,258 ft
Density 1,300-3,257 ft
ES 1,300-3,121 ft
3-dimensional 410-3,252 ft
velocity

Remarks: Re-entry of Bonanza Oil Corp. Arden Dome No. 1. Gas shows at 816-822 ft and 851-872 ft. Oil and gas shows in the Pennsylvanian at 2,822-2,934 ft.

TRANS-WORLD OIL CO.

Houssels-Wilson-Milka No. 1
API no.: 27-003-05011
Permit no.: 41
Location: NW¼NW¼NE¼ sec. 30, T22S, R63E
314 ft from south line, 290 ft from east line
Elevation: 2,403 ft

CLARK COUNTY (continued)

Completed: Aug. 4, 1962

Status: P & A

Depth: 2,300 ft

Remarks: Gas shows at 300 ft and 490 ft. Oil and gas shows 1,015 ft and 1,255 ft. Top of oil sand reported at 1,302 ft.

TRI-STATE OIL EXPLORATION CO.

Miskell-Gov't No. 1

API no.: 27-003-05005

Permit no.: 39

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T21S, R56E

1,800 ft from N line, 1,370 ft from east line

Elevation: 5,310 ft

Completed: Sept. 10, 1959

Status: P & A

Depth: 2,602 ft

Remarks: Well is entirely in Permian Bird Spring Gp. Minor oil shows reported (Bissell, 1973, p. 76).

U.S. OIL CO. (MATADOR OIL CO.)

Wilson No. 1X

API no.: 27-003-05010

Permit no.: 23

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T22S, R60E

1,082 ft from north line, 2,390 ft from east line

Completed: 1959

Status: Water well

Depth: 2,026 ft

Logs:

Driller 0-2,026 ft

Remarks: Wilson No. 1 was drilled to a depth of 360 ft in 1955, then P & A. Wilson No. 1X was drilled 10 ft south of No. 1; permit was transferred from No. 1 to No. 1X. Oil shows reported at 1,457-1,489 ft (Johnson, 1959, p. 152).

UNITED PETROLEUM CORP.

Apex No. 1

API no.: 27-003-05067

Permit no.: CL16

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T18S, R64E

250 ft from south line, 250 ft from west line

Elevation: 2,380 ft

Completed: Mar. 1948

Status: P & A

Depth: 1,247 ft

Remarks: A gas show from brecciated limestone was reported at 920 ft.

WILSON, L. R.

Government No. 1

API no.: 27-003-05016

Permit no.: CL22

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T22S, R63E

465 ft from north line, 2,315 ft from east line

Elevation: 2,100 ft at DF

Completed: Feb. 28, 1953

Status: D & A

Depth: 841 ft

Remarks: After the tools twisted off, the hole was abandoned and the rig was skidded 50 ft and redrilled as the Leonard Wilson Government No. 1-A (Lintz, 1957a, p. 24).

WILSON, L. R.

Government No. 1-A

API no.: 27-003-05016-R

Permit no.: CL25

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T22S, R63E

465 ft from N line, 2,265 ft from east line

Elevation: 2,100 ft at DF

Completed: Aug. 22, 1953

Status: D & A

Depth: 1,465 ft

Remarks: This was a redrill of the L. R. Wilson Government No. 1.

ELKO COUNTY

Reports in the Nevada State Journal in 1901 indicate an interest in the petroleum possibilities in Elko County; however, there is no record of any oil wells drilled in the county until 1922 when the Bull Run Oil and Gas Co. No. 1 was drilled. Another well was drilled near Elko in 1924, but no other wells are known to have been drilled until Gulf Refining Co., among others, began the era of modern petroleum exploration in eastern Nevada in the 1950's. Drilling in the 1970's and 1980's ranged over most of the county, and resulted in a number of significant oil and gas shows, including a potentially commercial gas well, the Wexpro Co. Jiggs No. 10-1.

Oil or tarry or solid bitumen is found in outcrop in several Elko County localities. At Lone Mountain Creek (sec. 16, T37N, R53E), solid bitumen occurs as fracture fillings in an Upper Cretaceous diorite sill which intrudes the Ordovician Vinini Formation (Poole and Claypool, 1984). At Cole Creek (sec. 4, T31N, R52E; and secs. 33 and 34, T32N, R52E), solid bitumen veinlets, blebs, and lenses occur in laminated dolomite of the Woodruff Formation, and a partly oxidized film occurs on exposed rock in prospect pits (Poole and Claypool, 1984). Two surface bitumen occurrences in shaly mudstone of the Mississippian Chainman Shale have been reported in southwestern Elko County: Smith and Ketner (1975, p. 44) reported solid bitumen veins and fracture fillings at Smith Creek (NE $\frac{1}{4}$ sec. 1, T29N, R52E; and Poole and Claypool (1984) reported tarry bitumen in voids and an oxidized oil film on the floor of a barrow pit at East Adobe Creek (sec. 2, T34N, R54E). At the Wells oil seep (NE $\frac{1}{4}$ sec. 5, T37N, R62E), oil is reported to be present within a porcelaneous tuff which is exposed in a railroad cut 1 mile northwest of Wells. The source of the oil is unknown; it could be a spill from railroad operations (Osmond and Elias, 1971, p. 424; Foster and Dolly, 1980).

Well Data

AMINOIL U.S.A., INC.

S.P. Land Company No. 1-23

API no.: 27-007-05216

Permit no.: 259

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, T30N, R52E

1,600 ft from south line, 1,150 ft from west line

Elevation: 5,431 ft

Completed: May 7, 1979

Status: P & A

Depth: 7,145 ft

ELKO COUNTY (continued)

Logs:

Lithologic 840-7,145 ft
DIL/SP/GR 827-7,122 ft
FDC/CNL/GR/Cal 827-7,136 ft
BHCS/GR/Cal 826-7,143 ft

Samples:

Cuttings 1,648-7,145 ft

Remarks: Side wall core analysis available at NBMG. Dark brown asphaltic sands with oil shows at 4,520-4,700 ft. Scattered oil and gas shows at 4,700 ft to TD. Well reported to bottom in Mississippian Chainman Sh.; possibly in Tertiary for most of depth.

AMOCO PRODUCTION CO.

Huntington Creek No. 1

API no.: 27-007-05219

Permit no.: 266

Location: NW¼SE¼ sec. 30, T31N, R56E

1,650 ft from south line, 1,860 ft from east line

Elevation: 5,467 ft

Completed: Apr. 2, 1980

Status: P & A

Depth: 7,250 ft

Logs:

FIL 1,706-6,380 ft
CNL/FDC/GR 1,680-6,465 ft
DIL/GR 1,701-6,460 ft
DM 1,707-7,001 ft
BHCS 7,006-7,247 ft
CBL 1,701-6,983 ft
TS 1-6,467 ft
BHCS/GR 1,701-6,453 ft
Directional 1,707-6,450 ft
CNL/FDC 6,246-7,249 ft

Samples:

Cuttings 10-7,050 ft

Remarks: Gas shows at 4,360-4,485 ft; oil and gas shows at 5,650-5,825 ft.

ARCO OIL & GAS CO.

Stag Mountain No. 1

API no.: 27-007-05233

Permit no.: 404

Location: NW¼NE¼ sec. 22, T39N, R58E

605 ft from north line, 2,065 ft from east line

Elevation: 6,076 ft

Completed: Dec. 2, 1984

Status: P & A

Depth: 10,000 ft

Tops:

Surface Tertiary volc.
1,850 ft Tertiary sedimentary rocks
2,050 ft Ordovician Vinini sh.
6,450 ft Mississippian Chainman Sh.

Logs:

Lithologic 500-10,000 ft
DLL/GR 3,472-9,991 ft
CNL/GR 3,472-10,000 ft
BHCS 4,372-10,000 ft
Driller 0-10,000 ft
LSS 1,017-3,462 ft

ATLANTIC INTERNATIONAL OIL CORP.

Dalton No. 1

API no.: 27-007-05210-A

Permit no.: 158

Location: SW¼NW¼SW¼ sec. 34, T38N, R62E

1,740 ft from south line, 412 ft from west line

Elevation: 5,611 ft at KB

Completed: 1977

Status: P & A

Depth: 4,205 ft

Logs:

Lithologic 3,700-4,180 ft
IES 3,690-4,182 ft
TS 160-4,178 ft

Samples:

Cuttings 0-4,180 ft

BULL RUN OIL & GAS CO.

No. 1

API no.: 27-007-05052

Permit no.: EL3

Location: SE¼ sec. 21, T43N, R52E

Completed: 1922

Status: D & A

Depth: 800 ft

Remarks: At 625 ft a pocket of inflammable gas blew water out of the hole; the gas flow ceased after several hours (Lintz, 1957a, p. 40).

CITIES SERVICE CO.

Federal BL No. 1

API no.: 27-007-05227

Permit no.: 332

Location: SE¼SW¼ sec. 13, T29N, R55E

335 ft from south line, 2,294 ft from west line

Elevation: 5,482 ft

Completed: Apr. 8, 1982

Status: P & A

Depth: 10,045 ft

Tops:

4,676 ft Tertiary
8,695(?) ft Tertiary Elko Fm.
9,075(?) ft Paleozoic carbonates

Logs:

DIL 1,482-10,041 ft
FIL 9,000-10,047 ft
BHCS 1,483-10,035 ft
VDL 9,000-10,035 ft
CNL/FDC 1,483-10,015 ft
DL 2,000-10,047 ft

Samples:

Cuttings 1,500-10,040 ft

Remarks: Oil recovered and gas to the surface on DST at 7,580-7,683 ft. Core recovered from 8,685-8,707 ft reported to be Oligocene Indian Well Fm.

DEPCO, INC.

Ventosa Unit No. 42-13

API no.: 27-007-05215

Permit no.: 255

Location: NE¼SE¼NE¼ sec. 13, T34N, R64E

1,400 ft from north line, 200 ft from east line

Elevation: 5,597 ft

Completed: Feb. 22, 1979

Status: P & A

Depth: 6,074 ft

Logs:

Mud 54-6,074 ft
DIL 1,217-6,074 ft
BHCS 1,217-6,034 ft

Samples:

Cuttings 15-6,070 ft

ELKO COUNTY (continued)

DIAMOND OIL CO.

Conquest No. 1

API no.: 27-007-05057

Permit no.: EL13

Location: NW¼NW¼NE¼ sec. 15, T26N, R54E

500 ft from north line, 3,130 ft from west line

Elevation: 5,875 ft

Completed: June 3, 1954

Status: P & A

Depth: 1,070 ft

DIAMOND OIL CO.

Diamond Valley No. 1

API no.: 27-007-05054

Permit no.: EL9

Location: sec. 10, T27N, R54E

Completed: 1953

Status: D & A

Depth: 804 ft

DIAMOND OIL CO.

Diamond Valley No. 2

API no.: 27-007-05055

Permit no.: EL10

Location: sec. 3, T27N, R54E

Completed: 1953

Status: D & A

Depth: 165 ft

DIAMOND OIL CO.

Diamond Valley No. 3

API no.: 27-007-05056

Permit no.: EL11

Location: sec. 3, T27N, R54E

Completed: 1953

Status: D & A

Depth: 565 ft

DIAMOND SHAMROCK EXPLORATION CO.

Kimbarck Federal No. 1-28

API no.: 27-007-05232

Permit no.: 377

Location: NE¼SE¼ sec. 28, T37N, R56E

1,927 ft from south line, 2,012 ft from west line

Elevation: 6,034 ft

Completed: Oct. 22, 1984

Status: P & A

Depth: 12,573 ft

Tops:

Surface	Quaternary alluvium
84 ft	Oligocene(?) volc.
172 ft	Eocene Elko Fm.
410 ft	Mississippian Diamond Peak Cgl.
570 ft	Mississippian Chainman Fm.
5,948 ft	Devonian Nevada Gp.
8,557 ft	Silurian Lone Mountain Fm.
9,944 ft	Silurian Roberts Mountain Fm.
11,380 ft	Ordovician Ely Springs Dol.

Logs:

Lithologic	81-12,573 ft
DLL/GR	118-11,906 ft
S	122-11,918 ft
CNL	140-11,925 ft
GR	1,588-11,925 ft

Samples:

Cuttings 81-12,570 ft

Remarks: Diamond Shamrock Exploration Co. became operator on June 1, 1984; Kimbark Oil and Gas Co. had been operator. Minor oil show in Chainman Fm. (3,860-3,890 ft).

DIAMOND SHAMROCK EXPLORATION CO.

Magnuson Fee No. 22-21

API no.: 27-007-05234

Permit no.: 428

Location: SE¼NW¼ sec. 21, T35N, R55E

2,245 ft from north line, 2,182 ft from west line

Elevation: 5,910 ft

Completed: Aug. 14, 1985

Status: P & A

Depth: 8,865 ft

Tops:

Surface	Quaternary alluvium
115 ft	Oligocene ash tuff
960 ft	Eocene Elko Fm.
1,900 ft	Mississippian Diamond Peak Fm.
1,972 ft	Mississippian Chainman Ss.
5,255 ft	Mississippian Chainman Sh.
5,940 ft	Mississippian Tripon Pass Ls.
6,759 ft	Devonian Guilmette Ls.
7,671 ft	Devonian upper Nevada Gp.
8,596 ft	Devonian Oxyoke Canyon Ss.
8,682 ft	Devonian Beacon Peak Dol.

Logs:

Lithologic	115-8,865 ft
TS	1,420-2,002 ft
GR	3,706-8,807 ft
S	115-8,827 ft
DI	115-1,493 ft
DLL	1,300-8,824 ft
N/FDC	115-8,836 ft

Samples:

Cuttings 1,500-8,865 ft

Remarks: Oil shows at 1,900-1,960 ft and 2,160-2,256 ft. Methane first detected at 4,470 ft.

DR. EBY

API no.: 27-007-04001

Permit no.: EL1

Location: T35N, R56E

Status: D & A

Remarks: No further information is available on this well which was reported to be very shallow.

ELKO OIL & DEVELOPMENT IMPROVEMENT CO.

No. 1

API no.: 27-007-05053

Permit no.: EL4

Location: SE¼SE¼SE¼ sec. 4, T34N, R55E

Completed: 1924

Status: D & A

Depth: 3,337 ft

Logs:

Driller 0-1,727 ft

Remarks: This well is locally known in Elko as the John Brown Well.

EXXON CORP.

Four Mile Butte Federal No. 1

API no.: 27-007-05238

Permit no.: 443

Location: SE¼SW¼ sec. 8, T43N, R49E
 843 ft from south line, 2,017 ft from west line
Elevation: 5,385 ft
Completed: Nov. 2, 1985
Status: P & A
Depth: 14,464 ft
Logs:

Lithologic	150-14,464 ft
BHCS	2,860-13,659 ft
GR	2,100-14,458 ft
CNL/FDC	2,100-14,491 ft
FDL	2,860-13,740 ft
FDC	55-14,497 ft
TS	0-14,426 ft
DI	2,860-13,696 ft

Samples:
 Cuttings 150-14,460 ft
 Core 14,442-14,464 ft

Remarks: Tertiary volcanic rock in core, 14,442-14,464 ft.
 A bottom-hole temperature of 330°F was recorded.

FILON EXPLORATION CO.

Ellison No. 1

API no.: 27-007-05210-B

Permit no.: 207

Location: SW¼NE¼ sec. 4, T40N, R52E

1,980 ft from north line, 1,980 ft from east line

Elevation: 5,750 ft

Completed: July 3, 1977

Status: Water well

Depth: 4,460 ft

Logs:

DIL	1,208-4,460 ft
GR/FDC	1,210-4,465 ft
GR/S	1,208-4,464 ft

Samples:

Cuttings 0-4,450 ft

Remarks: Water analysis available on DST's at NBMG.
 Plugged back to 1,852 ft and now used as a water well.
 Trace of hydrocarbons in DST, 3,994-4,070 ft. Tertiary
 tuffs and minor basalt to TD.

GULF OIL CORP. OF CALIFORNIA

Owl Hill Federal No. 1

API no.: 27-007-05012

Permit no.: 68

Location: SW¼NW¼ sec. 18, T28N, R70E

1,699 ft from north line, 3,999 ft from east line

Elevation: 5,600 ft (estimate)

Completed: Aug. 31, 1963

Status: P & A

Depth: 1,546 ft

Tops:

562 ft	Mississippian Scotty Wash
752 ft	Mississippian Chainman Sh.
1,260 ft	Mississippian Joana sh.(?)
1,310 ft	Devonian(?)

Logs:

IES	509-1,100 ft
FDL	500-1,100 ft
GR	50-1,095 ft
Cal	499-1,100 ft

Remarks: At 1,435 ft fresh water was encountered which produced 50-100 bbl.

GULF REFINING CO.

Dolly Varden Unit No. 1

API no.: 27-007-05000

Permit no.: EL7

Location: E½NE¼SE¼ sec. 36, T30N, R64E

1,980 ft from south line, 40 ft from east line

Elevation: 5,850 ft (at KB)

Completed: Apr. 29, 1953

Status: D & A

Depth: 3,158 ft

Tops:

Surface	Triassic Thaymes Fm.
295 ft	Permian Gerster Ls.
675 ft	Permian Oquirrh Fm.

Logs:

Lithologic	0-3,158 ft
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Samples:

Cuttings	30-3,158 ft
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GULF REFINING CO.

Mary's River Federal No. 1

API no.: 27-007-05010

Permit no.: 16

Location: center, NW¼NE¼ sec. 16, T41N, R60E

660 ft from north line, 1,980 ft from east line

Elevation: 5,962 ft

Completed: Jan. 22, 1955

Status: P & A

Depth: 6,612 ft

Tops:

Surface	alluvium
6,475 ft	Ordovician Kinikinic Qtz.

Logs:

ES	1,024-6,612 ft
GR/N	87-6,614 ft
Section gage	1,024-6,611 ft
Temp	1,000-6,612 ft

Samples:

Cuttings	0-6,616 ft
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Remarks: Minor oil show reported in Tertiary volcanic rocks at 4,468 ft.

GULF REFINING CO.

Pete Itcaina No. 1

API no.: 27-007-05006

Permit no.: 12

Location: center, SE¼NW¼ sec. 3, T37N, R59E

1,980 ft from north line, 3,300 ft from east line

Elevation: 5,505 ft

Completed: June 10, 1954

Status: P & A

Depth: 5,465 ft

Tops:

Surface	alluvium(?)
370(?) ft	Tertiary(?)
3,310 ft	Mississippian Chainman Sh.

Logs:

Lithologic	0-5,465 ft
IES	1,027-5,445 ft
GR/N	33-5,446 ft

Samples:

Cuttings	1,000-5,465 ft
Core Chips	1,780-5,083 ft (incomplete)

Remarks: Water zone at 5,028-5,083 ft.

GULF REFINING CO.

Thousand Springs No. 1

API no.: 27-007-05009

Permit no.: 5

Location: center, SE¼SW¼ sec. 8, T40N, R66E

662 ft from south line, 1,982 ft from west line

ELKO COUNTY (continued)*Elevation:* 5,650 ft*Completed:* Apr. 16, 1954*Status:* P & A*Depth:* 8,412 ft*Tops:*

Surface	Quaternary alluvium
1,150 ft	pre-Quaternary

Logs:

Lithologic	0-8,412 ft
IES	557-8,412 ft

Samples:

Cuttings	0-8,412 ft
Core Chips	2,482-8,211 ft (incomplete)

GULF REFINING CO.**Wilkins Ranch No. 1***API no.:* 27-007-05007*Permit no.:* 3*Location:* NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T38N, R61E

652 ft from north line, 657 ft from east line

Elevation: 5,589 ft*Completed:* June 1, 1954*Status:* P & A*Depth:* 8,416 ft*Tops:*

Surface	Tertiary
8,033 ft	Mississippian(?)

Logs:

Lithologic	0-8,414 ft
ES	558-8,421 ft
GR/N	100-7,200 ft
GR	7,000-8,400 ft

Samples:

Cuttings	1,060-8,394 ft
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Remarks: Oil shows at 3,944, 6,015-6,020, 6,493-6,920, and 7,735-8,033 ft. Gas show at 7,735 ft. Elko Fm. reported at 7,700 ft (Poole and Claypool, 1984, p. 198).**GULF REFINING CO.****Wilkins Ranch No. 2***API no.:* 27-007-05008*Permit no.:* 14*Location:* NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T39N, R69E

860 ft from north line, 660 ft from east line

Elevation: 4,889 ft*Completed:* Oct. 9, 1954*Status:* P & A*Depth:* 4,938 ft*Tops (from PI):*

2,350 ft	Tertiary Humboldt Fm.
4,707 ft	Mississippian(?)

Logs:

Lithologic	130-4,938 ft
ES	2,349-4,937 ft
GR/N	20-4,937 ft

Samples:

Cuttings	130-4,350 ft
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HUNT OIL CO.**Mary's River Federal No. 1-8***API no.:* 27-007-05221*Permit no.:* 292*Location:* NE $\frac{1}{4}$ sec. 8, T39N, R61E

1,320 ft from north line, 1,320 ft from east line

Elevation: 5,733 ft*Completed:* Jan. 18, 1981*Status:* P & A*Depth:* 8,970 ft*Tops (from PI):*

1,080 ft	Tertiary
8,710 ft	Ordovician

Logs:

Lithologic	825-8,970 ft
DI	3,750-8,970 ft
CNL/FDC	96-8,968 ft
BHCS	3,750-8,956 ft
DM	4,009-8,970 ft
PL/ML	3,980-8,970 ft
TS	0-8,970 ft
Cal	0-3,980 ft

Samples:

Cuttings	830-8,970 ft
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HUNT OIL CO. OF NEVADA**F. W. Hooper No. 1***API no.:* 27-007-05224*Permit no.:* 309*Location:* NW $\frac{1}{4}$ sec. 8, T35N, R59E

1,250 ft from north line, 1,930 ft from west line

Elevation: 5,354 ft*Completed:* Mar. 28, 1981*Status:* Water well*Depth:* 7,507 ft*Tops (from PI):*

1,060 ft	Tertiary
6,220 ft	Mississippian Chainman Sh.

Logs:

Lithologic	700-7,500 ft
DI	2,942-7,513 ft
CNL/FDC	2,942-7,510 ft
BHCS	2,942-7,501 ft
PL/micro	2,950-6,511 ft
DM	6,198-7,513 ft
TS	0-7,512 ft
Directional	6,198-7,513 ft

Samples:

Cuttings	700-7,500 ft
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INLAND OIL CO.**Itcaina No. 1***API no.:* 27-007-05005*Permit no.:* 6*Location:* NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T36N, R58E

2,640 ft from south line, 1,000 ft from east line

Elevation: 5,500 ft*Completed:* May 30, 1954*Status:* P & A*Depth:* 990 ft**INLAND OIL CO.****Itcaina No. 2***API no.:* 27-007-05050*Permit no.:* 9*Location:* center, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T36N, R58E

100 ft from south line, 3,290 ft from west line

Elevation: 5,500 ft*Completed:* May 27, 1954*Status:* P & A*Depth:* 980 ft**INLAND OIL CO.****Itcaina No. 3***API no.:* 27-007-05051*Permit no.:* EL12

Location: NE¼SW¼SE¼ sec. 31, T36N, R58E
 680 ft from south line, 1,950 ft from east line
Elevation: 5,500 ft
Completed: 1954
Status: D & A
Depth: 324 ft
Remarks: This well is 20 ft north and 30 ft east of Itcaina No. 2.

LADD PETROLEUM CORP.

Federal No. 1-31-N

API no.: 27-007-05208

Permit no.: 178

Location: NE¼SE¼SW¼ sec. 31, T40N, R55E
 1,300 ft from south line, 2,350 ft from west line

Elevation: 6,050 ft

Completed: June 2, 1976

Status: P & A

Depth: 7,106 ft

Tops:

1,568 ft	volc.
4,190 ft	Paleozoic

Logs:

DIL	1,066-6,992 ft
BHCS	1,066-6,986 ft

Remarks: Gas shows at 3,500-3,800 ft and 4,300-5,700 ft.
 Top of volcanics also reported as 1,690 ft, and top of Paleozoic as 4,330 ft.

LADD PETROLEUM CORP.

Nevelko No. 1

API no.: 27-007-05209

Permit no.: 182

Location: SW¼NE¼ sec. 16, T34N, R55E
 3,102 ft from south line, 2,120 ft from east line

Elevation: 5,182 ft (at KB)

Completed: Sept. 30, 1976

Status: P & A

Depth: 5,670 ft

Tops:

3,420 ft	volc.
4,320 ft	Elko Fm.
5,490 ft	Paleozoic

Logs:

FDC	2,000-5,670 ft
BHCS	0-5,670 ft
DI	1,042-5,670 ft
CNL	2,000-5,770 ft

LAST FRONTIER OIL CO.

Government No. 1

API no.: 27-007-05002

Permit no.: EL8

Location: NE¼NE¼NW¼ sec. 23, T31N, R69E
 320 ft from north line, 554 ft from east line

Completed: 1953

Status: P & A

Depth: 1,327 ft

Tops:

Surface	Quaternary lakebeds
370 ft	Tertiary Humboldt Fm.
910 ft	Pennsylvanian Oquirrh Fm.

Logs:

Lithologic	240-1,208 ft
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Samples:

Cuttings	0-1,320 ft
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Remarks: A slight oil show was reported at 805-813 ft.

MARLIN OIL CO.

Federal No. 1-4

API no.: 27-007-05231

Permit no.: 367

Location: NE¼NE¼ sec. 4, T26N, R62E

660 ft from north line, 660 ft from east line

Elevation: 6,398 ft

Completed: July 28, 1984

Status: P & A

Depth: 9,080 ft

Tops:

Surface	Pliocene-Pleistocene fanglomerate
1,330 ft	Tertiary volcanoclastics
1,800 ft	unconformity
1,800 ft	Permian Riepetown Fm.
3,220 ft	Permian Riepe Spring Fm.
3,935 ft	unconformity
3,935 ft	Pennsylvanian Ely Ls.
6,065 ft	unconformity
6,065 ft	Mississippian Lower Ely Ls.
6,350 ft	Mississippian Chainman-Diamond Peak Fms.
8,725 ft	Mississippian Joana Ls.

Logs:

Lithologic	500-9,080 ft
BHCS/GR	1,350-9,000 ft
DI	1,348-9,069 ft
FDC	1,348-9,041 ft
CN/FDC	1,348-9,041 ft
CBL	3,000-8,060 ft
DM	1,750-7,500 ft
Directional	0-9,080 ft
FIL	6,300-7,500 ft

Samples:

Cuttings	490-9,080 ft
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Remarks: PT's at 3,550-3,555 ft, 5,280-5,300 ft, 6,450-6,475 ft, 6,710-6,725 ft, 6,768-6,800 ft, 6,890-6,900 ft, 7,335-7,365 ft, and 7,380-7,395 ft had gas shows. PT's at 6,670-6,695 ft, 6,820-6,870 ft, 7,100-7,180 ft, 7,200-7,255 ft, and 7,255-7,275 ft had oil and gas shows. Tests on the "oil" (solid hydrocarbon) material suggest that it is coal and waxy oil derived from coal.

McCARTHY OIL CO.

Rahas No. 1

API no.: 27-007-05004

Permit no.: EL6

Location: NE¼NE¼ sec. 9, T35N, R58E

Elevation: 5,250 ft

Completed: 1951

Status: D & A

Depth: 4,125 ft

Tops:

Surface	Tertiary
3,150 ft	Pennsylvanian Ely Ls.
3,650 ft	Mississippian White Pine Sh.

Logs:

Lithologic	0-4,100 ft
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Samples:

Cuttings	1,850-4,100 ft
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Remarks: Oil shows reported (Johnson, 1959, p. 152).

MERRITT ARMSTRONG WELL

API no.: 27-007-04007

Permit no.: EL2

Location: T35N, R55E

Status: D & A

Remarks: This well was reported to be very shallow (Lintz, 1957a).

ELKO COUNTY (continued)

PAN AMERICAN PETROLEUM CORP.

Cobre Minerals Corp. No. 1

API no.: 27-007-05200

Permit no.: 123

Location: SW 1/4 SE 1/4 sec. 3, T37N, R67E

660 ft from south line, 1,976 ft from east line

Elevation: 5,890 ft

Completed: Sept. 27, 1968

Status: P & A

Depth: 5,284 ft

Logs:

BHCS/GR	613-5,284 ft
IES	613-5,284 ft
N	3,784-5,284 ft

PAN AMERICAN PETROLEUM CORP.

U.S.A. Franklin No. 1

API no.: 27-007-05201

Permit no.: 147

Location: NW 1/4 SW 1/4 sec. 8, T30N, R60E

3,347 ft from north line, 1,023 ft from west line

Elevation: 5,952 ft

Completed: Jan. 23, 1971

Status: P & A

Depth: 13,116 ft

Tops (from PI):

1,200 ft	Tertiary
3,890 ft	Permian
10,940 ft	Pennsylvanian Ely Ls.
11,570 ft	Mississippian Chainman Sh.
12,650 ft	Mississippian Joana Ls.
12,880 ft	Devonian Pilot Sh.

Logs:

BHCS/GR	1,008-13,116 ft
IES	1,008-13,116 ft
N	1,008-13,116 ft
TS	800-13,109 ft

Samples:

Cuttings 1,200-13,110 ft

Remarks: Water was encountered at 5,934-6,029 ft, 7,166-7,263 ft, and 12,640-12,840 ft.

PAN AMERICAN PETROLEUM CORP.

U.S.A. Jiggs No. 1

API no.: 27-007-05202

Permit no.: 149

Location: NE 1/4 NE 1/4 sec. 19, T29N, R56E

955 ft from north line, 583 ft from east line

Elevation: 5,550 ft

Completed: Apr. 14, 1971

Status: P & A

Depth: 13,600 ft

Logs:

IES	995-13,600 ft
BHCS/GR	995-13,600 ft
N	995-13,600 ft

Samples:

Cuttings 0-13,590 ft

Remarks: Palynology and organic-maturation analysis reports available at NBMG. DST at 4,685-4,807 ft had a gas show, and at 6,550-6,671 ft (Elko Fm., Bortz, 1985b) and 6,766-6,908 oil shows. Mississippian palynomorphs reported from 12,540-13,570 ft.

RICHFIELD OIL CORP.

Rabbit Creek Unit No. 1

API no.: 27-007-05003

Permit no.: 24

Location: NW 1/4 NW 1/4 sec. 11, T34N, R57E

660 ft from north line, 660 ft from west line

Elevation: 5,308 ft at KB

Completed: Apr. 30, 1956

Status: P & A

Depth: 7,349 ft

Tops (from PI):

909 ft	Tertiary Humboldt Fm.
1,152 ft	Tertiary basalt
2,386 ft	Tertiary Elko (?) Fm.
3,070 (?) ft	Paleozoic
6,524 (?) ft	Mississippian

Logs:

Lithologic	0-7,349 ft
IES	522-7,337 ft
TS	100-3,675 ft
Cal	3,300-7,336 ft

Samples:

Cuttings 22-7,349 ft
Core 277-7,349 ft (incomplete)

Remarks: Source-rock analysis available at NBMG.

RICHFIELD OIL CORP.

Scott-Ogilvie No. 1

API no.: 27-007-05011

Permit no.: 32

Location: SW 1/4 SW 1/4 sec. 22, T43N, R52E

640 ft from south line, 720 ft from west line

Elevation: 6,101 ft at KB

Completed: Jan. 17, 1957

Status: P & A

Depth: 3,390 ft

Tops:

2,350 ft Paleozoic

Logs:

Lithologic	0-3,386 ft
IES	502-3,383 ft
Cal	502-1,734 ft

Samples:

Cuttings 19-3,386 ft
Core 277-7,349 ft

Remarks: Good oil show at 1,522 ft in sandstone having low porosity and permeability. Oil stains on fractures and rare bleeding oil shows continue until approximately 2,150 ft. One gas show reported at 1,712 ft. Source-rock analysis available at NBMG.

SHELL OIL CO.

Goshute Unit No. 1

API no.: 27-007-05207

Permit no.: 176

Location: sec. 19, T32N, R67E

330 ft from south line, 300 ft from west line

Elevation: 5,600 ft

Completed: Feb. 27, 1976

Status: P & A

Depth: 5,569 ft

Tops (from PI):

5,280 ft Permian

Logs:

Lithologic	420-5,569 ft
BHCS	420-5,436 ft
DIL	420-5,436 ft
CNL/FDC	1,996-5,434 ft
PL	2,024-5,434 ft
FDC/GR	1,996-5,434 ft
DLL	2,010-5,423 ft

Samples:

Cuttings 420-4,580 ft
Cuttings 4,610-5,440 ft

SHELL OIL CO.**Howell No. 42-1**

API no.: 27-007-05213

Permit no.: 236

Location: SE¼NE¼ sec. 1, T37N, R60E

3,562 ft from south line, 710 ft from east line

Elevation: 5,488 ft

Completed: July 8, 1978

Status: P & A

Depth: 8,714 ft

Logs:

Driller 0-8,714 ft
FDC/N 1,004-8,715 ft
DIL 1,004-8,710 ft
BHCS 1,004-8,704 ft
PL 1,004-2,698 ft

Samples:

Cuttings 1,010-8,260 ft

Remarks: Water analysis on DST's is available at NBMG.

DST at 1,474-1,481 ft had a show of gas and one
at 2,680-2,855 ft had a show of oil and gas.

SHELL OIL CO.**Mary's River Federal No. 1**

API no.: 27-007-05211

Permit no.: 220

Location: NW¼SE¼ sec. 30, T38N, R61E

2,000 ft from south line, 2,600 ft from east line

Elevation: 5,503 ft

Completed: May 8, 1978

Status: P & A

Depth: 12,125 ft

Logs:

Driller 0-12,125 ft
Lithologic 670-9,800 ft
FDC/N 660-9,811 ft
PL/ML 660-9,808 ft
DIL 660-9,804 ft
BHCS 660-9,808 ft

Samples:

Cuttings 960-12,120 ft

Remarks: DST at 9,105-9,247 ft had a gas show and DST at
7,206-7,365 ft had an oil show. Other oils shows reported.
Oil reportedly recovered from 3,515-3,545 ft in Tertiary
tuffaceous sandstone and siltstone (Poole and Claypool,
1984, table 15).

SOHIO PETROLEUM CO.**Ruby Valley Unit No. 1**

API no.: 27-007-05220

Permit no.: 289

Location: SW¼SE¼ sec. 11, T30N, R60E

341 ft from south line, 2,206 ft from east line

Elevation: 6,010 ft

Completed: Nov. 29, 1980

Status: P & A

Depth: 9,000 ft

Logs:

Driller 0-9,000 ft
BHCS 1,172-9,000 ft
DM 1,172-9,004 ft
DI 1,172-9,000 ft
FDC/N 1,172-8,974 ft

Samples:

Cuttings 70-9,000 ft

Remarks: Gas show at 4,960-4,970 ft.

SUN EXPLORATION & PRODUCTION CO.**Elko Hills No. 1**

API no.: 27-007-05235

Permit no.: 429

Location: NW¼NW¼ sec. 36, T34N, R56E

1,275 ft from north line, 920 ft from west line

Elevation: 5,447 ft

Completed: Aug. 4, 1985

Status: P & A

Depth: 8,525 ft

Logs:

Lithologic 80-8,525 ft
GR 1,529-8,488 ft
S 1,529-8,512 ft
DM 3,993-8,520 ft
DI 1,529-8,517 ft
FIL 1,529-3,978 ft
CBL 2,650-3,646 ft
DLL/ML 1,529-3,990 ft
CN/DL 1,529-8,520 ft
Directional 3,993-8,520 ft

Samples:

Cuttings 92-8,400 ft

Remarks: Oil show at 3,581 ft. Well name formerly Adobe
Federal No. 1.

SUN EXPLORATION & PRODUCTION CO.**Shafter Federal No. 1**

API no.: 27-007-05230

Permit no.: 349

Location: SE¼SE¼ sec. 2, T34N, R66E

660 ft from south line, 660 ft from east line

Elevation: 5,581 ft

Completed: Sept. 14, 1984

Status: P & A

Depth: 8,000 ft

Tops:

1,620 ft Tertiary base of valley fill
4,440 ft Permian

Logs:

DIL/BHCS 1,206-7,991 ft
CNL/FDC 1,206-7,991 ft
FIL 1,206-7,948 ft

Samples:

Cuttings 72-8,000 ft

SUN EXPLORATION & PRODUCTION CO.**Southern Pacific No. 3-13**

API no.: 27-007-05228

Permit no.: 342

Location: SE¼SE¼ sec. 13, T39N, R65E

660 ft from south line, 870 ft from east line

Elevation: 5,828 ft

Completed: Feb. 15, 1983

Status: P & A

Depth: 10,932 ft

Tops:

750 ft Tertiary
10,422 ft Triassic

Logs:

Lithologic 90-10,930 ft
DM 916-10,918 ft
CBL 7,818-8,745 ft
BHCS 897-10,926 ft

ELKO COUNTY (continued)

DI 898-10,926 ft
 FIL 1,500-10,923 ft
 CNL/FDC 898-8,638 ft
 S 898-10,932 ft
 Directional 898-10,923 ft
 GR 898-8,607 ft

Samples:

Cuttings 0-10,930 ft

Remarks: Core analysis at 9,440-9,475 ft, and water and crude oil analyses are available at NBMG. DST at 7,332-7,382 ft had an oil show. DST at 7,400-7,460 ft had a gas show. DST at 8,390-8,430 ft (Humboldt Fm., Poole and Claypool, 1984, table 15) had an oil and gas show. DST at 8,510-8,641 ft had an oil and gas show. DST at 9,410-9,475 ft had an oil and gas show.

SUN EXPLORATION & PRODUCTION CO.

Toano Federal No. 1

API no.: 27-007-05229

Permit no.: 348

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T40N, R65E

1,760 ft from south line, 2,290 ft from west line

Elevation: 5,624 ft

Completed: Feb. 4, 1984

Status: P & A

Depth: 10,911 ft

Logs:

S 1,512-4,821 ft
 CNL 10,275-10,907 ft
 BHCS 1,512-4,821 ft
 DIL 10,383-10,898 ft
 GR 1,512-4,792 ft

Samples:

Cuttings 50-10,910 ft

SUN OIL CO.**(SUN EXPLORATION & PRODUCTION CO.)**

Southern Pacific No. 1

API no.: 27-007-05226

Permit no.: 330

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T39N, R65E

2,300 ft from south line, 830 ft from west line

Elevation: 6,128 ft

Completed: Apr. 12, 1982

Status: P & A

Depth: 14,000 ft

Tops:

1,615 ft Triassic
 1,820 ft Permian
 6,010 ft fault
 6,010 ft Mississippian Chainman Sh.
 12,916 ft fault
 12,916 ft Devonian Guilmette(?) Fm.
 13,440 ft pegmatite
 13,805 ft fault
 13,805 ft Ordovician Eureka Qtz.

Logs:

Lithologic 69-14,000 ft
 Directional 1,498-8,488 ft
 BHC/GR 66-13,974 ft
 DIL 66-14,003 ft
 FDC/CNL 66-8,495 ft
 DLL 1,498-4,500 ft
 FIL 1,498-8,498 ft
 GR 1,498-8,498 ft
 TS 50-14,000 ft

DM 1,498-8,498 ft
 Cyberlook 300-750 ft

Samples:

Cuttings 70-14,000 ft

Remarks: Water zone at 8,410-8,500 ft; Oil shows at 420-730 ft and 3,210-3,250 ft.

TEXACO, INC.

Crane Springs No. 19-13

API no.: 27-007-05225

Permit no.: 312

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T31N, R55E

2,050 ft from south line, 454 ft from west line

Elevation: 5,950 ft

Completed: June 20, 1981

Status: P & A

Depth: 3,477 ft

Logs:

Lithologic 660-3,480 ft
 DIL/FDC/CNL/GR 327-3,478 ft
 Directional 1,451-3,478 ft
 DM 1,451-3,478 ft
 Driller 0-3,477 ft

Samples:

Cuttings 330-3,470 ft

Remarks: Core analysis available at NBMG for 2,973-3,002 ft, 3,447-3,477 ft, 3,851-3,852 ft, and 3,869-3,870 ft. Oil shows at 2,630-2,930 ft, 2,974-2,975 ft, 2,980-2,981 ft, and 2,984-2,985 ft.

TEXXON INVESTMENTS, INC./WIL-O-EXPLORATION

Texxon No. 2

API no.: 27-007-05241

Permit no.: 467

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T39N, R62E

341 ft from south line, 1,771 ft from west line

Elevation: 5,769 ft

Completed: 1986

Status: P & A

Depth: 1,060 ft

Remarks: An oil discovery was reported by the operator shortly after drilling commenced, but later newspaper accounts suggest that any mention of oil production was highly inflated; possibly there were no shows in the well. A sample of oil purported to be produced from the well was diesel fuel (Alan Chamberlain, oral commun., 1985).

WESTERN OSAGE OIL, INC.

Government No. 1

API no.: 27-007-05001

Permit no.: EL5

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T31N, R69E

Completed: 1951

Status: P & A

Depth: 785 ft

Remarks: The exact depth of this well is not known. One report indicates 785 ft in depth and Petroleum Information indicates 1,025 ft. According to a newspaper release this well encountered a pocket of gas at 60 ft, probably in the Lake Bonneville deposits (Lintz, 1957a, p. 38).

WEXPRO CO.

Cord No. 24-1

API no.: 27-007-05214

Permit no.: 246

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T29N, R55E

660 ft from north line, 660 ft from east line

Elevation: 5,443 ft

Completed: Aug. 15, 1979

Status: P & A

Depth: 11,926 ft

Tops (from PI):

1,800(?) ft	Pliocene Hay Ranch Fm.
3,100 ft	Miocene Humboldt Fm.
5,202 ft	Oligocene Indian Well Fm.
9,070 ft	Eocene Elko Fm.

Logs:

Lithologic	9,540-11,924 ft
DM	1,106-9,198 ft
FIL	1,106-9,198 ft
Directional	1,106-9,198 ft
DIL	1,106-11,920 ft
CNL/FDC	4,600-11,920 ft
BHCS	1,106-11,914 ft

Samples:

Cuttings 0-11,920 ft

Remarks: Biostratigraphic well analysis available at NBMG. DST at 8,385-8,457 ft had a gas and oil show. Indian Well Fm. (Oligocene) present at 5,400-5,500 ft, Elko Fm. (Eocene) present at 9,150-9,500 ft, Paleocene at 10,770-10,780 ft, Newark Canyon Fm. (?) (Cretaceous) at 10,800 ft.

WEXPRO CO.

Jiggs No. 10-1

API no.: 27-007-05217

Permit no.: 263

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T29N, R55E

660 ft from south line, 660 ft from east line

Elevation: 5,557 ft

Completed: June 26, 1980

Status: P & A

Depth: 10,950 ft

Tops:

Surface	Quaternary alluvium
2,102 ft	Miocene Humboldt Fm.
5,041 ft	Oligocene Indian Well Fm.
9,053 ft	Eocene Elko Fm.
9,538 ft	Paleozoic

Logs:

BHCS	1,500-10,562 ft
Cyberdip	5,100-10,547 ft
DM	1,533-10,564 ft
CNL/FDC	4,490-10,572 ft
CBL	7,484-10,788 ft
DIL	1,495-10,568 ft
FIL	1,525-10,564 ft

Samples:

Cuttings 1,530-10,950 ft

Remarks: Gas producing intervals reported are: 9,060-9,086 ft, 9,096-9,118 ft, 9,128-9,165 ft, 9,300-9,330 ft, and 9,400-9,420 ft, all in the Elko Fm. DST at 9,395-9,398 ft flowed gas and recovered 558 ft of low pour-point oil. During testing the well flowed 93 MCF of gas; it was considered capable of commercial production but no pipeline facilities were available or anticipated. Oil was also recovered from Mississippian-Pennsylvanian rocks below 10,000 ft (Poole and Claypool, 1984, table 15).

WEXPRO CO.

Jiggs Unit No. 2

API no.: 27-007-05223

Permit no.: 297

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, T29N, R55E

1,746 ft from south line, 2,376 ft from west line

Elevation: 5,535 ft

Completed: Feb. 1, 1981

Status: P & A

Depth: 10,320 ft

Tops:

Surface	Quaternary alluvium
3,400 ft	Pliocene Hay Ranch Fm.
6,020 ft	Oligocene Indian Well Fm.
8,170 ft	Paleozoic

Logs:

DIL	1,564-10,282 ft
BHCS	1,564-10,282 ft
FDC/CNL	1,564-10,285 ft
FIL	1,568-10,238 ft

Samples:

Cuttings 1,600-10,310 ft

Remarks: DST at 9,404-9,452 ft had a gas show.

WIL-O-EXPLORATION

Farnes No. 1

API no.: 27-007-05237

Permit no.: 434

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T39N, R62E

18 ft from north line, 1,816 ft from west line

Elevation: 5,769 ft

Completed: May 15, 1985

Status: TA

Depth: 2,250 ft

Logs:

BHCS(?)	30-1,052 ft
GR(?)	30-1,054 ft
DLL(?)	30-1,052 ft
CNL/FDC/GR(?)	30-1,054 ft

Remarks: Oil shows reported. Originally drilled in search of hot water. Oil shows not confirmed by later reports (Actionline, May 4, 1985). See Texxon Investments Inc., Texxon No. 2.

WIL-O-EXPLORATION

Farnes No. 2

API no.: 27-007-05239

Permit no.: 447

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T39N, R62E

430 ft from north line, 1,582 ft from west line

Elevation: 5,748 ft

Completed: 1985

Status: TA

Depth: 1,074 ft

Logs:

DLL(?)	400-1,016 ft
GR(?)	400-1,018 ft
CNL/GR(?)	400-1,018 ft

WIL-O-EXPLORATION/TEXXON INVESTMENTS, INC.

Texxon No. 1

API no.: 27-007-05240

Permit no.: 461

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T39N, R62E

254 ft from north line, 1,714 ft from west line

Elevation: 5,769 ft

Completed: 1986

Status: P & A

Depth: 1,240 ft (?)

ESMERALDA COUNTY

Only six wells are known to have been drilled in Esmeralda County. A well drilled 4 miles south of Coaldale in 1925 encountered flammable gas (probably

ESMERALDA COUNTY (continued)

biogenic), and there are questionable reports of oil shows from a well in the northern part of the county. Al Waibel (oral commun., 1985) reported methane in some geothermal wells in Fish Lake Valley, approximately T15N, R35E. No other surface or subsurface shows are known.

Well Data

CALIFORNIA EXCELSIOR CO.

McNett Ranch No. 1

API no.: 27-009-04003

Permit no.: ES1

Location: sec. 27, T1S, R36E

Elevation: 4,900 ft

Completed: 1920

Status: D & A

Depth: 488 ft

Remarks: This well produced 500 GPM of water in 1957. It probably bottoms in Tertiary sedimentary rocks (Lintz, 1957a).

FISH LAKE MERGER OIL CO.

No. 1

API no.: 27-009-04002

Permit no.: ES2

Location: center, sec. 34, T1S, R36E

Elevation: 4,200 ft

Completed: Mar. 15, 1923

Status: P & A

Depth: 1,447 ft

Remarks: See Lintz (1957a, p. 41).

FISH LAKE OIL CO.

Coaldale Well

API no.: 27-009-04001

Permit no.: ES3

Location: sec. 12, T2N, R37E (?)

Completed: June 1925

Status: D & A

Depth: 5,218 ft

Remarks: Several gas pockets were encountered during drilling. This well bottomed in volcanic ash and decomposed granite (Lintz, 1957a, p. 41).

MONTE CRISTO OIL CO.

Wm. Wright No. 1

API no.: 27-009-05200

Permit no.: 131

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T5N, R37E

Elevation: 5,000 ft

Completed: July 21, 1971

Status: P & A

Depth: 4,776 ft

Logs:

Cal	450-4,759 ft
DL	1,200-4,770 ft
TS	1,000-4,771 ft
ES	1,300-4,771 ft
Nuclear	3,000-4,775 ft

Remarks: Oil and gas shows reported at 3,002-3,018 ft and 3,562-3,572 ft. Operator later changed to Toiyabe Oil.

NEVADA OIL & MINERALS, INC.

V.R.S. No. 1

API no.: 27-009-05201

Permit no.: 146

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T1S, R36E
400 ft from north line, 2,240 ft from east line

Elevation: 4,754 ft

Completed: Nov. 25, 1970

Status: P & A

Depth: 9,178 ft

Tops:

Surface	valley fill
5,000 ft	volc.

Logs:

Mud/lithologic	3,280-9,178 ft
TS	1,500-9,100 ft
ES	536-9,100 ft

Samples:

Cuttings	3,270-9,178 ft
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Remarks: Artesian water production at 580-790 ft (2,000 GPM at 1,400 PSI) and 1,150-1,400 ft (estimate of 500 GPM). Bottom-hole temperature 318°F.

WRIGHT EXPLORATION

Federal No. 26-1

API no.: 27-009-05202

Permit no.: 238

Location: SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T1N, R38E

Elevation: 4,960 ft

Completed: Aug. 13, 1979

Status: P & A

Depth: 5,666 ft

Tops:

5,000 ft	volc.(?)
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EUREKA COUNTY

The Blackburn field (fig. 6) in Pine Valley was the first Nevada oil field discovered outside of Railroad Valley. The discovery generated considerable petroleum exploration interest in Nevada, especially in areas outside of Railroad Valley.

Little exploratory drilling had been done in Eureka County before the discovery of the Blackburn field in 1982, even though Nevada's best-known oil seep, the Bruffey seep, known for over 50 years, is only 4 miles east of the field. Four exploratory wells elsewhere in the county have shows reported.

Surface occurrences of oil or solid bitumen are reported in several localities. The Bruffey oil seep (SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T27N, R52E) and a nearby hydrocarbon gas seep (NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T27N, R52E) have been most recently described by Foster and others (1979), and the nearby (sec. 29?, T27N, R52E) Mineral Hill seep has been described by Poole and Claypool (1984). Solid bitumen veins in outcrop are known to the northeast in adjacent Elko County. Oil or tarry or solid bitumen occurrences in outcrop are known in Vinini Creek (secs. 9 and 17, T23N, R51E; Poole and Claypool, 1984), Eureka Canyon (sec. 36, T19N, R53E; Merriam and Anderson, 1942), Newark Canyon (approx sec. 13, T19N, R54E), and the Gibellini and Bisoni vanadium property (sec. 34, T16N, R52E; Desborough and others, 1979).

Blackburn Field Summary

Source of information: NBMG files.

Geology

Producing formation: Oligocene Indian Well Fm., Mississippian Chainman Sh., and Devonian Nevada Fm.

Trap type: structural-stratigraphic

Lithology of reservoir rock: Poorly welded porous tuffs, tuffaceous sandstones, and fractured calcareous dolomite.

Oldest formation penetrated: Devonian Nevada Fm.

Reservoir Data

Production area: 640 acres

Number of producing wells: 4

Number of abandoned wells: 1

Number of dry holes: 7

Porosity: Indian Well Fm.—17%, Nevada Fm.—5.3%, Chainman Sh.—(?)

Gas analysis: unknown, but low gas/oil ratio

Associated water analysis: (Nevada Fm., approximate average values) Na 500, K 51, Ca 56, Mg 12, Cl 520, SO₄ 250, HCO₃ 675 mg/L

Oil characteristics: gravity 27° API, pour point 30°F

Reservoir temperature: 250°F(?)

Discovery well

Amoco Production Co. Blackburn No. 3

SW¼SW¼ sec. 8, T27N, R52E

Date of completion: Mar. 16, 1982

Total depth: 7,955 ft

Initial production: flowed 346 BOPD and 767 BWPD

Perforations: 5,776–6,450 ft and 7,072–7,140 ft

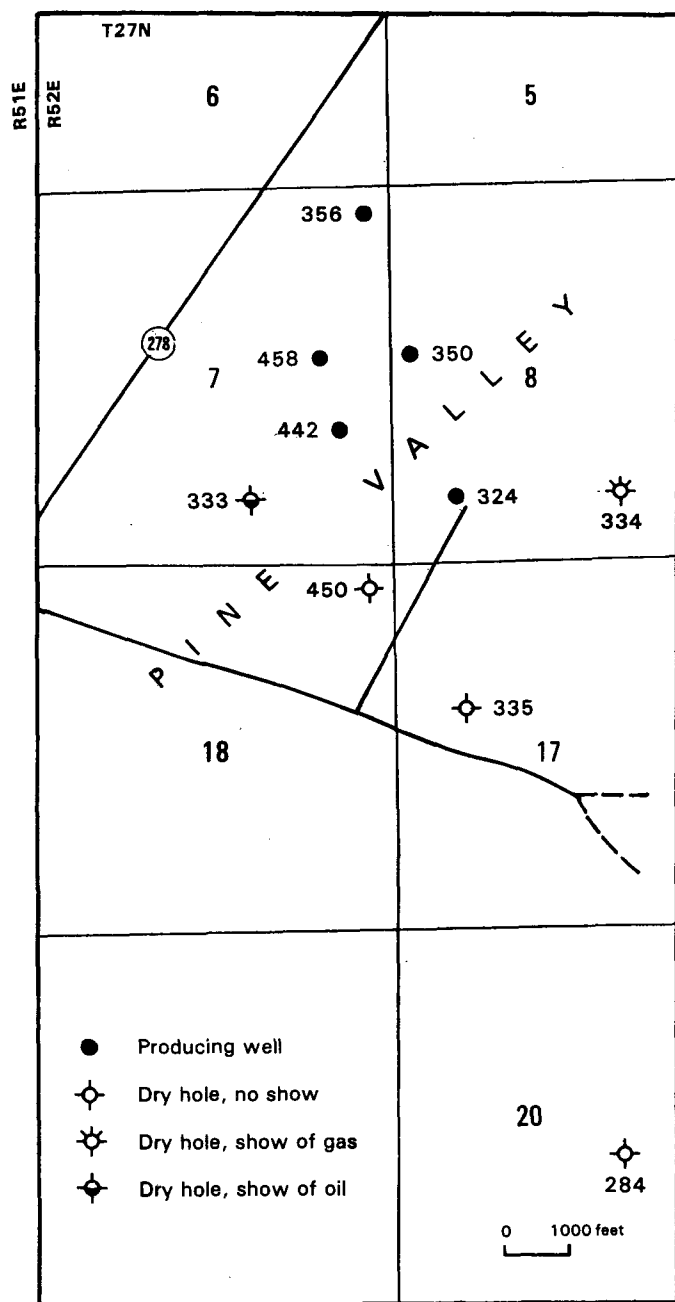


FIGURE 6.—Map of well locations identified by state permit number in the Blackburn field and vicinity, Eureka County.

Available information on the geology of the Blackburn field is quite incomplete. The trap is believed to be a combination unconformity-fault block type; dry holes drilled to the south and west of the field (fig. 6) are reportedly in blocks which are downdropped relative to the field; a fault probably also bounds the field to the northeast (Scott and others, 1987). Information on the field is summarized below and in figure 7.

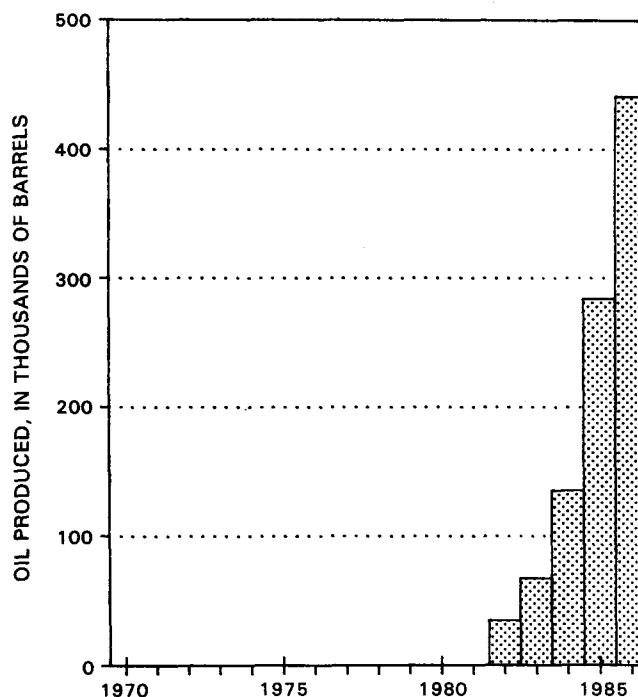


FIGURE 7.—Oil production of the Blackburn field.

EUREKA COUNTY (continued)**Well Data****AMOCO PRODUCTION CO.****Big Pole Creek No. 1**

API no.: 27-011-05209

Permit no.: 323

Location: center, SW¼NW¼ sec. 35, T28N, R51E

1,980 ft from north line, 660 ft from west line

Elevation: 5,413 ft

Completed: June 24, 1982

Status: P & A

Depth: 8,300 ft

Logs:

Lithologic	85-8,300 ft
DI	86-7,449 ft
DM	1,949-8,292 ft
CNL/GR	1,949-8,292 ft
S/FIL	7,310-8,300 ft
BHCS/GR	86-8,288 ft
Directional	1,989-7,449 ft
DLL	7,300-8,294 ft
TS	86-1,947 ft
CNL/FDC	86-1,944 ft

Samples:

Cuttings 80-8,300 ft

Remarks: Oil and gas show in DST at 2,340-2,421 ft and oil show only at 5,312-5,374 ft. Other oil shows reported. Cretaceous Newark Canyon Fm. and Tertiary Indian Well Fm. reported present.

AMOCO PRODUCTION CO.**Blackburn No. 1**

API no.: 27-011-05205

Permit no.: 284

Location: NW¼SE¼ sec. 20, T27N, R52E

1,980 ft from south line, 1,980 ft from east line

Elevation: 5,454 ft

Completed: Aug. 16, 1980

Status: P & A

Depth: 4,893 ft

Tops:

Surface	Quaternary valley fill
2,745 ft	Tertiary volcs.
3,188 ft	Tertiary(?) valley fill
4,749 ft	granite (to TD)

Logs:

CNL/FDC	65-4,892 ft
FIL	65-4,894 ft
BHCS	65-4,891 ft
DIL	55-4,889 ft
DM	1,640-4,895 ft

Samples:

Cuttings 0-4,890 ft

AMOCO PRODUCTION CO.**Blackburn No. 2**

API no.: 27-011-05207

Permit no.: 301

Location: NW¼NW¼ sec. 15, T27N, R52E

785 ft from north line, 535 ft from west line

Elevation: 5,446 ft

Completed: Mar. 6, 1981

Status: P & A

Depth: 5,272 ft

Tops:

4,350 ft quartz monzonite

Logs:

FIL	73-5,186 ft
DM	73-5,186 ft
DIL/GR/SP	73-5,265 ft
CNL/FDC/GR	73-5,259 ft
BHCS	73-5,259 ft
TS	790-3,696 ft

Samples:

Cuttings 70-5,250 ft

AMOCO PRODUCTION CO.**Blackburn No. 3**

API no.: 27-011-05210

Permit no.: 324

Location: center, NE¼SW¼SW¼ sec. 8, T27N, R52E

990 ft from south line, 990 ft from west line

Elevation: 5,305 ft

Completed: Mar. 16, 1982

Status: Producer

Field: Blackburn

Depth: 7,955 ft

Tops:

3,304 ft	Miocene basalt
3,658 ft	Miocene Humboldt Fm.
5,246 ft	Oligocene Indian Well Fm.
6,450 ft	Mississippian Chainman Sh.
7,120 ft	Devonian Nevada Fm.

Logs:

Lithologic	80-7,950 ft
GR	4,800-7,925 ft
DI	95-7,951 ft
FDL	4,800-7,867 ft
CBL	5,200-7,900 ft
TS	58-7,909 ft
Cal	1,548-5,550 ft
CNL/FDC	95-7,954 ft
BHCS	95-7,943 ft
FIL	4,800-7,956 ft
DM	1,608-7,956 ft
DLL	5,800-7,523 ft

Samples:

Cuttings 1,600-7,930 ft

Remarks: Oil zones at 7,072-7,140 ft and 5,776-6,450 ft. Numerous shows below 5,500 ft. Original flow of 346 BOPD (27° API) and 767 BWPD (Hotline Energy Reports, July 20, 1985).

AMOCO PRODUCTION CO.**Blackburn No. 4**

API no.: 27-011-05212

Permit no.: 333

Location: center, N¼SW¼SE¼ sec. 7, T27N, R52E

990 ft from south line, 1,980 ft from east line

Elevation: 5,288 ft

Completed: Aug. 18, 1982

Status: P & A

Depth: 8,100 ft

Tops:

3,440 ft	Miocene basalt
4,090 ft	Tertiary Humboldt cgl.
5,870 ft	Tertiary Indian Well Fm.
7,303 ft	Mississippian Chainman Sh.
7,524 ft	Devonian Nevada Fm.

Logs:

Lithologic	1,000-8,100 ft
DLL	987-8,099 ft
DM	1,880-6,954 ft
TS	187-6,943 ft
DLL	987-8,099 ft

CNL/FDC 1,000-8,100 ft
 BHCS 987-8,069 ft
Samples:
 Cuttings 1,000-8,100 ft
Remarks: Oil show 7,326-7,558 ft.

AMOCO PRODUCTION CO.

Blackburn No. 5

API no.: 27-011-05213
Permit no.: 334
Location: center, N½SW¼SE¼ sec. 8, T27N, R52E
 990 ft from south line, 1,980 ft from east line
Elevation: 5,335 ft
Completed: Oct. 11, 1983
Status: P & A
Depth: 8,059 ft
Logs:

Lithologic 1,000-8,061 ft
 DI 68-8,035 ft
 BHCS 1,004-7,939 ft
 GR 5,000-7,981 ft
 CNL/FDC 3,350-8,009 ft
 DM 1,004-7,940 ft

Samples:
 Cuttings 67-8,060 ft

AMOCO PRODUCTION CO.

Blackburn No. 6

API no.: 27-011-05214
Permit no.: 335
Location: center, E½SW¼NW¼ sec. 17, T27N, R52E
 1,980 ft from north line, 990 ft from west line
Elevation: 5,335 ft
Completed: Sept. 15, 1982
Status: P & A
Depth: 7,651 ft
Tops:

3,371 ft Tertiary basalt
 4,535 ft Tertiary Humboldt cgl.
 7,415 ft quartz monzonite

Logs:

Lithologic 1,050-7,651 ft
 CNL/GR 1,047-7,647 ft
 BHCS/GR 1,047-7,639 ft
 TS 1,047-7,370 ft
 FIL 1,047-7,650 ft
 DI 1,047-7,646 ft
 DM 1,068-7,642 ft
 Directional 1,047-7,646 ft

Samples:
 Cuttings 1,050-7,650 ft

AMOCO PRODUCTION CO.

Blackburn No. 10

API no.: 27-011-05216
Permit no.: 350
Location: SW¼SW¼NW¼ sec. 8, T27N, R52E
 2,300 ft from north line, 600 ft from west line
Elevation: 5,292 ft
Completed: Sept. 22, 1983
Status: Producer
Field: Blackburn
Depth: 7,645 ft
Tops:

3,311 ft Miocene basalt
 3,666 ft Miocene Humboldt Fm. (lacustrine)
 4,412 ft Miocene Humboldt Fm.(cgl.)
 5,346 ft Oligocene Indian Well Fm.

6,710 ft Mississippian Chainman Fm.
 7,315 ft Devonian Nevada Fm.
Logs:
 Lithologic 1,000-7,645 ft
 CNL/GR 50-7,626 ft
 DM 1,000-7,626 ft
 DI 50-7,626 ft
 TS 200-7,626 ft
 S/GR 1,000-7,606 ft
 BHCS/FIL/GR 3,300-7,610 ft
 BHCS/GR 1,000-7,596 ft

Samples:
 Cuttings 1,000-7,645 ft
Remarks: Producing zones: Indian Well tuffs; 5,660-5,726 ft, 5,746-5,870 ft, 6,090-6,170 ft. Chainman Sh.; 6,718-6,944 ft. Water analysis available at NBMG. Originally pumped 479 BOPD (Hotline Energy Reports, July 20, 1985).

AMOCO PRODUCTION CO.

Blackburn No. 12

API no.: 27-011-05218
Permit no.: 356
Location: center, NE¼NE¼NE¼ sec. 7, T27N, R52E
 330 ft from north line, 330 ft from east line
Elevation: 5,275 ft
Completed: Jan. 1, 1984
Status: Water-disposal well
Depth: 8,426 ft
Tops:

Surface Quaternary alluvium
 3,362 ft Miocene basalt
 3,686 ft Miocene Humboldt Fm.
 5,428 ft Oligocene Indian Well Fm.
 7,703 ft Mississippian Chainman Sh.
 8,134 ft Devonian Nevada Fm.

Logs:

Lithologic 1,000-8,426 ft
 BHCS/GR 1,002-8,422 ft
 BHCS/FIL/GR 5,000-8,422 ft
 CNL/GR 1,002-8,394 ft
 DM 1,010-8,420 ft
 Directional 1,010-8,420 ft
 DI/GR 1,002-8,427 ft
 DLL 6,000-8,420 ft

Samples:
 Cuttings 1,000-8,426 ft
Remarks: Oil shows in the Indian Well Fm. and Chainman Sh. Water injection into Oxyoke Canyon Ss. Mbr. of the Nevada Fm.

AMOCO PRODUCTION CO.

Blackburn No. 14

API no.: 27-011-05230
Permit no.: 442
Location: NE¼SE¼ sec. 7, T27N, R52E
 2,200 ft from south line, 330 ft from east line
Elevation: 5,290 ft
Completed: July 4, 1985
Status: Producer
Field: Blackburn
Depth: 7,210 ft
Tops:

3,293 ft Miocene basalt
 3,487 ft Miocene Humboldt Fm.
 5,208 ft Oligocene Indian Well Fm.
 6,526 ft Mississippian Chainman Fm.
 6,986 ft Devonian Nevada Fm.

Logs:

Lithologic 992-7,210 ft

EUREKA COUNTY (continued)

DI 992-7,200 ft
 DLL 992-7,195 ft
 LSS 992-7,198 ft
 GR 992-7,175 ft
 CNL/FDC 992-7,207 ft
 TS 100-4,440 ft
 DM 992-7,185 ft
 MLL 992-7,195 ft

Samples:

Cuttings 990-7,210 ft

Remarks: Producing zone at 6,950-7,034 ft originally flowed 700 BOPD. Permit no. 433 (API no. 27-011-05229) has been cancelled. This well's permit number and API number replace the cancelled permit. This was done to reduce the chance of well-name confusion.

AMOCO PRODUCTION CO.**Blackburn No. 15**

API no.: 27-011-05231

Permit no.: 450

Location: center, NE¼NE¼NE¼ sec. 18, T27N, R52E
 330 ft from north line, 330 ft from east line

Elevation: 5,308 ft

Completed: Nov. 18, 1985

Status: P & A

Depth: 7,567 ft

Tops:

3,339 ft	Miocene basalt
3,632 ft	Miocene Humboldt Fm.
5,602 ft	Oligocene Indian Well Fm.
7,330 ft	Devonian Oxyoke Canyon
	Ss. Mbr. of Nevada Fm.

Logs:

Lithologic	1,040-7,567 ft
CNL/FDC	1,000-7,563 ft
GR	1,000-7,528 ft
LSS	3,000-7,444 ft
DLL	1,000-7,552 ft
DM	5,100-7,095 ft

Samples:

Cuttings 1,000-7,570 ft

AMOCO PRODUCTION CO.**Blackburn No. 16**

API no.: 27-011-05232

Permit no.: 458

Location: SW¼SE¼NE¼ sec. 7, T27N, R52E
 2,310 ft from north line, 950 ft from east line

Elevation: 5,291 ft

Completed: Dec. 12, 1985

Status: Producer

Field: Blackburn

Depth: 7,208 ft

Tops:

1,020 ft	Pliocene Hay Ranch Fm.
3,608 ft	Miocene basalt
3,790 ft	Miocene Humboldt Fm.
5,496 ft	Oligocene Indian Well Fm.
6,634 ft	Mississippian Chainman Fm.
6,796 ft	Devonian Nevada Fm.

Logs:

Lithologic	1,025-7,208 ft
BHCS	3,000-7,199 ft
GR	5,750-7,176 ft
DLL	1,023-7,196 ft
CNL/FDC	1,023-7,196 ft

DM 5,100-7,209 ft

Samples:

Cuttings 1,020-7,208 ft

Remarks: Producing at 6,959-7,012 ft (Nevada Fm.).

AMOCO PRODUCTION CO.**East Bailey Ranch No. 1**

API no.: 27-011-05219

Permit no.: 357

Location: center, NE¼ sec. 8, T29N, R52E

1,320 ft from north line, 1,320 ft from east line

Elevation: 5,129 ft

Completed: May 19, 1984

Status: P & A

Depth: 9,000 ft

Tops:

4,410 ft	Tertiary Indian Well Fm.
6,630(?) ft	Cretaceous Newark Canyon Fm.
7,162 ft	Mississippian Chainman Fm.
8,700(?) ft	Devonian Devils Gate Ls.
8,750 ft	Devonian Nevada Fm.

Logs:

Lithologic	0-9,000 ft
BHCS	2,010-8,981 ft
DM	2,010-8,993 ft
Cyberlook	76-1,978 ft
DI	76-2,004 ft
CNL/FDC	76-8,989 ft
GR	2,010-8,932 ft
TS	2-8,710 ft
FIL	2,010-7,000 ft
DLL	4,000-8,990 ft

Samples:

Cuttings 0-9,000 ft

Remarks: Missing cuttings 4,700-6,400 ft. Oil shows between 6,180 and 8,520 ft.

AMOCO PRODUCTION CO.**East Henderson Creek No. 1**

API no.: 27-011-05228

Permit no.: 425

Location: SW¼SW¼SW¼ sec. 16, T25N, R51E

330 ft from south line, 330 ft from west line

Elevation: 5,699 ft

Completed: Mar. 31, 1985

Status: P & A

Depth: 10,977 ft

Tops:

Surface	Quaternary alluvium
2,018 ft	Oligocene Indian Well Fm.
3,848 ft	Permian Garden Valley Fm.
4,638 ft	Mississippian Chainman Fm.
8,251 ft	Devonian Devils Gate Ls.
8,830 ft	Devonian Nevada dol.
9,260 ft	Devonian Denay Ls.
9,380 ft	Devonian Nevada dol.
10,560 ft	Devonian Denay Ls./fault
10,615 ft	Oligocene Indian Well Fm.
10,730 ft	Devonian Oxyoke Canyon
	Ss. Mbr. of Nevada Fm.
10,889 ft	Devonian Denay Ls.

Logs:

Lithologic	100-10,977 ft
DLL	3,100-10,958 ft
TS	1-10,972 ft
DI	2,009-10,964 ft
GR	2,009-10,937 ft
LSS	117-1,991 ft
Cal	20-2,007 ft

DM	2,009-10,971 ft
CNL/FDC	2,009-10,969 ft
BHCS	117-10,938 ft
Cyberlook	3,200-10,958 ft

Samples:

Cuttings	120-10,977 ft
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Remarks: Somewhat different Tops footages are listed in other data files at NBMG. Oil shows reported at 3,204-3,227 ft, 9,162-9,182 ft, and minor shows at 9,258 and 9,402 ft.

ASH, W. F.

Damele Brothers No. 2

API no.: 27-011-05201

Permit no.: 121

Location: NW¼NE¼SW¼ sec. 6, T26N, R51E

2,839 ft from north line, 1,372 ft from west line

Elevation: 5,640 ft

Completed: 1968 (?)

Status: D & A

Depth: 3,612 ft

Logs:

GR/N	27-3,300 ft
IES	2,816-3,610 ft
BHCS/GR	2,816-3,602 ft

BEYERBACK, CHARLES

(Moab Drilling Company) No. 1

API no.: 27-011-05006

Permit no.: 43

Location: NE¼NW¼SE¼ sec. 11, T27N, R52E

2,400 ft from south line, 1,350 ft from east line

Elevation: 5,610 ft

Completed: May 4, 1962

Status: D & A

Depth: 1,205 ft

Logs:

Lithologic	20-1,205 ft
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Remarks: Traces of oil reported. Bortz (1985) reports that the well flowed 5 BOPD (1 day).

BOSWELL ENERGY CORP.

Big Pole Creek No. 1-11

API no.: 27-011-05227

Permit no.: 415

Location: SW¼NW¼NE¼ sec. 11, T27N, R51E

787 ft from north line, 2,317 ft from east line

Elevation: 5,374 ft

Completed: Jan. 30, 1985

Status: P & A

Depth: 8,217 ft

Tops:

Surface	Pliocene Hay Ranch Fm.
2,475 ft	Miocene basalt
2,497 ft	Miocene Humboldt Fm.
3,295 ft	Oligocene Indian Well Fm.
4,665 ft	Cretaceous Newark Canyon Fm.
6,250 ft	Jurassic Frenchie Creek Rhyolite
7,138 ft	Mississippian Diamond Peak Fm.
8,006 ft	Mississippian Chainman Fm.

Logs:

Lithologic	1,030-8,217 ft
BHCS	1,026-8,223 ft
DI	1,026-8,223 ft
CNL/FDC	1,026-8,223 ft
EP	4,600-8,217 ft
Directional	1,026-8,217 ft
Cyberlook	1,026-8,217 ft

Computer processed 5,600-8,200 ft

Samples:

Cuttings	1,030-8,217 ft.
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CABANA OIL COMPANY

Federal No. 1-30

API no.: 27-011-05203

Permit no.: 273

Location: NW¼SW¼ sec. 30, T16N, R53E

1,900 ft from south line, 660 ft from west line

Elevation: 6,167 ft

Completed: Mar. 30, 1980

Status: J & A

Depth: 1,250 ft

Samples:

Cuttings	688-1,246 ft
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Remarks: Lost circulation at 1,250 ft.

CARR AND WRATH, INC.

Federal No. 1

API no.: 27-011-05200

Permit no.: 117

Location: center, NE¼SW¼ sec. 6, T26N, R52E

1,980 ft from south line, 1,980 ft from west line

Elevation: 5,745 ft

Completed: Apr. 20, 1968

Status: P & A

Depth: 3,116 ft

Tops:

880 ft	Tertiary volcanic cgl.
2,340 ft	Tertiary volc.

Logs:

Lithologic	225-3,116 ft
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DEPCO, INC.

Silver State Federal No. 33-18

API no.: 27-011-05208

Permit no.: 322

Location: NW¼NW¼SE¼ sec. 18, T20N, R50E

2,200 ft from south line, 3,200 ft from west line

Elevation: 6,112 ft at ground level, 6,126 at KB

Completed: Nov. 30, 1981

Status: P & A

Depth: 9,120 ft (from KB)

Logs:

DI	2,020-9,098 ft
BHC/GR	2,020-9,060 ft
CNL/FDC/GR	2,020-9,101 ft
DM	2,020-9,099 ft

Samples:

Cuttings	30-9,099 ft
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DEPCO, INC.

Willow Wash Federal No. 42-24

API no.: 27-011-05225

Permit no.: 385

Location: SE¼NE¼ sec. 24, T21N, R49E

1,980 ft from north line, 660 ft from east line

Elevation: 6,210 ft

Completed: Oct. 24, 1984

Status: P & A

Depth: 7,834 ft

Tops:

7,197 ft	Devonian Roberts Mountains Fm.
7,512 ft	Silurian Hanson Creek Fm.
7,796 ft	Ordovician Eureka Qtz.

Logs:

Lithologic	40-7,834 ft
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EUREKA COUNTY (continued)

DI	61-7,823 ft
BHCS/GR/Cal	64-7,823 ft
CNL/FDC	3,562-7,829 ft
Electromagnetic thickness	1,700-3,509 ft
TS	1,612-3,760 ft
CBL	2,895-3,514 ft

Remarks: Oil shows at 1,580-2,190 ft.

EBERT, JAMES & NEPPLE, EDWARD**Government No. 1**

API no.: 27-011-05004

Permit no.: 19

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T27N, R52E

800 ft from south line, 800 ft from west line

Elevation: 5,450 ft

Completed: 1955

Status: D & A

Depth: 4,905 ft

Logs:

IES 146-4,904 ft

Samples:

Core chips 2,603-4,900 ft

EUREKA OIL & GAS COMPANY**Pine Valley No. 1**

API no.: 27-011-05055

Permit no.: EU1

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T27N, R52E

350 ft from south line, 2,390 ft from west line

Elevation: 5,693 ft

Completed: Aug. 15, 1952

Status: P & A

Depth: 1,848 ft

Remarks: Located near Bruffy Brothers oil seep. This was one of eight wells drilled by Eureka Oil Co., at the direction of Mr. George Hadley, in this immediate area. Seven of the holes spudded in Ordovician strata on the east side of a major north-south fault while one well was spudded on the west side of the fault in Tertiary and Quaternary valley fill. The majority of these wells are believed to be less than 600 ft deep. Hot springs occur along the fault zone locally. At Bruffy Brothers Ranch, petroleum-bearing waters ooze from contorted beds of the Ordovician Vinini shale (Lintz, 1957a, p. 42).

GETTY OIL COMPANY**Nost I No. 1**

API no.: 27-011-05202

Permit no.: 186

Location: center, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T28N, R52E

660 ft from north line, 1,980 ft from east line

Elevation: 5,284 ft

Completed: Mar. 26, 1977

Status: P & A

Depth: 10,505 ft

Tops:

Surface	Miocene to Pliocene
3,100 ft	Oligocene to Miocene
10,250 ft	Cretaceous

Logs:

Lithologic	40-10,505 ft
TS	930-9,442 ft
BHCS	1,048-9,455 ft
CNL/FDC	1,050-9,476 ft
PML	1,050-9,484 ft

DLL	100-9,453 ft
Samples:	
Cuttings	40-10,500 ft
Core	5,987-9,777 ft (incomplete)
Remarks:	Palynological and kerogen analyses are available at NBMG. Hydrocarbon source facies analysis available for 1,050-10,505 ft.

HUNT OIL COMPANY**Walter L. Plaskett No. 1**

API no.: 27-011-05204

Permit no.: 282

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T21N, R53E

330 ft from north line, 330 ft from east line

Elevation: 5,881 ft

Completed: July 28, 1980

Status: P & A

Depth: 10,600 ft

Logs:

DI	1,072-10,575 ft
CNL/FDC	1,072-10,569 ft
BHCS	1,072-10,565 ft
Directional	1,058-10,173 ft
Proximity velocity	1,072-10,580 ft
TS	1,072-10,120 ft

Samples:

Cuttings 68-10,600 ft

Remarks: Water analysis available on the DST at NBMG. Slight oil shows at 7,960-7,970 ft, and slight gas show at 8,010 and 8,020 ft (Petroleum Information).

HUNT OIL COMPANY OF NEVADA**Diamond Valley Federal No. 1-24**

API no.: 27-011-05206

Permit no.: 285

Location: center, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T24N, R53E

660 ft from north line, 660 ft from west line

Elevation: 5,780 ft

Completed: Oct. 24, 1980

Status: P & A

Depth: 8,900 ft

Tops (from PI):

1,070 ft	Tertiary
7,355 ft	Mississippian Chainman Sh.

Logs:

Lithologic	600-8,902 ft
DIL	1,112-8,882 ft
DM	1,112-8,882 ft
PML	1,112-8,886 ft
BHCS	1,112-8,875 ft
CNL/FDC	1,110-8,880 ft
Directional	1,116-8,560 ft

Samples:

Cuttings 7,030-8,580 ft

HUNT OIL COMPANY OF NEVADA**Diamond Valley No. 1-11**

API no.: 27-011-05224

Permit no.: 370

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T21N, R53E

170 ft from north line, 580 ft from east line

Elevation: 5,880 ft

Completed: May 8, 1984

Status: P & A

Depth: 6,552 ft

Logs:

DLL/GR	1,000-6,549 ft
FDC/CNL	1,000-6,549 ft

S/Monitor 500-6,547 ft
 LSS/Digit 1,000-6,545 ft
 Cyberdip 1,000-6,538 ft
 Check shot/DM 1,000-6,538 ft
 GR 1,000-6,505 ft

Samples:
 Cuttings 1,050-6,552 ft

LAST FRONTIER OIL COMPANY

Damele No. 1

API no.: 27-011-05000

Permit no.: 1

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T26N, R51E

Elevation: 5,496 ft

Completed: Mar. 2, 1961

Status: Water well

Depth: 3,549 ft

Samples:

Cuttings 0-3,351 ft

Remarks: Tertiary oil shows reported (Lintz, 1957a). Well was deepened to final depth in 1962.

SHELL OIL CO.

Diamond Valley Unit No. 1

API no.: 27-011-05056

Permit no.: 29

Location: center, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T23N, R54E

660 ft from north line, 1,877 ft from west line

Elevation: 5,800 ft

Completed: Oct. 27, 1956

Status: P & A

Depth: 8,042 ft

Tops:

Surface valley fill
 7,500(?) ft Paleozoic ls. and dol.

Logs:

Drilling/Lithologic 0-8,042 ft
 IES 650-8,040 ft
 GR/N 650-8,040 ft
 DM 650-8,040 ft

Samples:

Core chips 2,401-7,789 ft (incomplete)

Remarks: Gas shows reported.

TAYLOR, JACK

Government No. 1

API no.: 27-011-05002

Permit no.: 57

Location: center, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T27N, R50E

Elevation: 5,675 ft

Completed: Nov. 13, 1961

Status: D & A

Depth: 420 ft

Tops (from PI):

Surface Tertiary

Remarks: Located approximately 14 miles west of Blackburn field.

TAYLOR, JACK

Government No. 2

API no.: 27-011-05003

Permit no.: 65

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T27N, R50E

Elevation: 5,585 ft

Completed: Aug. 18, 1962

Status: D & A

Depth: 1,024 ft

Tops:

Surface Tertiary

Remarks: Located approximately 14 miles west of Blackburn field.

TAYLOR, JACK

Government No. 3

API no.: 27-011-05010

Permit no.: 66

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T27N, R50E

Elevation: 5,600 ft

Completed: Jan. 1, 1964

Status: D & A

Depth: 3,828 ft

Tops (from PI):

2,790 ft	Tertiary
2,860 ft	Cretaceous
3,000 ft	Jurassic
3,120 ft	Triassic
3,200 ft	Permian
3,270 ft	Pennsylvanian
3,600 ft	Mississippian
3,680 ft	Silurian
3,700 ft	Ordovician

Remarks: Located approximately 14 miles west of Blackburn field.

HUMBOLDT COUNTY

Petroleum exploration in Humboldt County is quite limited; only five wells have been drilled, and two of those were drilled in the early 1900's. Oil shows are reported from several of the wells but some of these reports may not be valid. The deepest well drilled in the county is Sun Exploration and Production Co. King Lear Federal No. 1-17 with a total depth of 7,931 ft. This well, drilled in the Black Rock Desert in 1983, had oil and gas shows while drilling and in core samples.

No surface occurrences of hydrocarbons are known in the county and most of the pre-Cretaceous source rocks have probably been heated beyond temperatures at which hydrocarbons are generated and preserved (Harris and others, 1980; Sandberg, 1983). Cretaceous and younger rocks might be potential sources of petroleum where buried deep enough in basins in southern Humboldt County (Willden, 1979).

Well Data

BLACK ROCK OIL, GAS, REFINING & DEVELOPMENT CO.

No. 1

API no.: 27-013-05000

Permit no.: HU2

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T35N, R29E

Completed: Dec. 1921

Status: P & A

Depth: 800 ft

Remarks: Drilled near the Western Pacific Railroad Co. Sulphur-M.P.474.67 well.

HUMBOLDT ASSOCIATES

Ellison No. 1

API no.: 27-013-05001

HUMBOLDT COUNTY (continued)

Permit no.: 268

Location: NE 1/4 SE 1/4 sec. 19, T35N, R42E

2,100 ft from south line, 676 ft from east line

Elevation: 4,400 ft

Completed: Mar. 9, 1980

Status: P & A

Depth: 986 ft

Logs:

Lithologic	10-986 ft
IES	800-984 ft
GR/N	800-984 ft
Com/Pro	800-984 ft
FDL	800-984 ft
Field	0-986 ft

Samples:

Cuttings 0-986 ft

Remarks: Petrographic and water analysis available at NBMG. The completion date is the date that swabbing stopped. Oil shows were reported by the operator when the well was swabbed.

HUMBOLDT ASSOCIATES

Ellison No. 2

API no.: 27-013-05003

Permit no.: 383

Location: SW 1/4 NE 1/4 sec. 19, T35N, R42E

2,000 ft from north line, 2,000 ft from east line

Elevation: 4,400 ft

Completed: July 4, 1984

Status: P & A

Depth: 1,020 ft

Logs:

Driller 0-1,020 ft

SUN EXPLORATION & PRODUCTION CO.

King Lear Federal No. 1-17

API no.: 27-013-05002

Permit no.: 347

Location: SW 1/4 SW 1/4 sec. 17, T37N, R29E

600 ft from south line, 555 ft from west line

Elevation: 3,950 ft

Completed: June 4, 1983

Status: P & A

Depth: 7,931 ft

Logs:

GR	6,020-7,894 ft
FIL	6,020-7,931 ft
CNL/FDC	6,020-7,929 ft
DI	6,020-7,926 ft
Variable density waveform	6,020-7,932 ft
Computer processed	6,020-7,931 ft

Samples:

Cuttings 10-7,931 ft

Remarks: Core analysis available at NBMG. Oil show reported from core analysis at 6,880-7,052 ft and was detected as yellow and gold specular fluorescence. Very slightly gas-cut mud reported from DST at 6,894-6,930 ft.

WESTERN PACIFIC RAILROAD CO.

Sulphur-M.P. 474.67

API no.: 27-013-04999

Permit no.: HU1

Location: T35N, R29E

Completed: 1909

Status: D & A

Depth: 970 ft

Logs:

Lithologic 0-970 ft

Remarks: Possible oil show at 845-875 ft, although samples examined at the University of Nevada appear to be a refined product. Water zones at 440-455 ft, 495-510 ft, and 560-670 ft. Well tested to 60 GPM of water. This well was put down at the Western Pacific station of Sulphur, Nevada, at mile post (M.P.) 474.67.

LANDER COUNTY

Lander County has received only a small amount of drilling attention, and no surface oil shows or seeps are known. One deep well, the Phillips Petroleum Co. Stoneberger Creek Federal A No. 1-35, had a minor gas show. The shallow Voorhees wells were drilled for stratigraphic information in the Battle Mountain area on a presumed anticline. The only oil and gas shows were reported by the operator of the Jeff H. Voorhees No. 1 Fee Well. The deepest well in the county, the ATR Ginn No. 1-13, was drilled as a geothermal well by Chevron to a depth of 9,563 ft with no reported oil or gas shows.

Well Data

ARCO OIL & GAS CO.

Antelope Valley No. 1

API no.: 27-015-05005

Permit no.: 407

Location: NE 1/4 NE 1/4 sec. 26, T25N, R40E

805 ft from north line, 825 ft from east line

Elevation: 4,948 ft

Completed: Jan. 13, 1985

Status: P & A

Depth: 4,600 ft

Tops:

Surface	Quaternary valley fill
692 ft	Tertiary volc. tuff #1
1,250 ft	Tertiary volc. tuff #2
2,438 ft	Tertiary volc. tuff #3
2,938 ft	pre-Tertiary

Logs:

Lithologic	127-4,600 ft
FDC/CN/GR	53-3,258 ft
DI	45-3,254 ft
DM	3,288-4,596 ft
DL	53-3,258 ft
DLL	3,172-4,600 ft
Digitized waveforms	1,207-3,252 ft
S	46-4,588 ft

Samples:

Cuttings 130-4,600 ft

BLALACK DRILLING CO.

Voorhees No. 1

API no.: 27-015-05003

Permit no.: 26

Location: NE 1/4 NW 1/4 sec. 34, T32N, R45E

98 ft from north line, 2,786 ft from east line

Elevation: 4,537 ft

Completed: 1956

Status: Unknown

Depth: 3,456 ft

LANDER COUNTY (continued)

Logs:

ES 105-3,005 ft
ML 750-2,800 ft

Remarks: Oil shows were reported. Well flowed water and these artesian zones might not have been plugged off from the rest of the well. This well was re-entered in 1967 with a mineral exploration drilling rig. Records indicate that this well has not been properly plugged.

CHEVRON OIL CO.

ATR Ginn No. 1-13

API no.: 27-015-90000

Permit no.: 159

Location: center, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T31N, R47E

Completed: 1974

Status: Geothermal well

Depth: 9,563 ft (?)

Remarks: This well was drilled as a geothermal well.

MID-CENTRAL DRILLING CO.

Orwitz No. 1

API no.: 27-015-05004

Permit no.: 36

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T32N, R45E

Completed: 1957

Status: D & A

Depth: 3,187 ft

NEVADA OIL & GAS CO.

Government No. 1

API no.: 27-015-04998

Permit no.: LA10

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T32N, R45E

Elevation: 4,537 ft

Status: D & A

NEWMAN, CARL

Austin No. 1

API no.: 27-015-0500

Permit no.: LA1

Location: center, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T19N, R43E

Status: D & A

PHILLIPS PETROLEUM CO.

Stoneberger Creek Federal A No. 1-35

API no.: 27-015-05006

Permit no.: 410

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T19N, R47E

660 ft from south line, 660 ft from east line

Elevation: 6,267 ft

Completed: Mar. 9, 1985

Status: P & A

Depth: 5,050 ft

Tops:

Surface	Quaternary alluvial valley fill
390 ft	Tertiary volc.
3,596 ft	Paleozoic

Logs:

Lithologic	80-5,049 ft
DIL/ML	1,100-5,035 ft
BHCS	81-5,044 ft
TS	81-5,049 ft
DI	81-1,103 ft
GR	1,100-5,047 ft
CNL	1,100-5,047 ft

Samples:

Cuttings 100-5,049 ft

Remarks: Core analysis is available at NBMG for 4,892-4,912 ft. DST at 3,439-3,635 ft had a minor gas show.

VOORHEES, JESS H.

No. 1 Fee Well

API no.: 27-015-05001

Permit no.: LA8

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T32N, R45E

Elevation: 4,537 ft

Completed: 1946

Status: P & A

Depth: 912 ft

Remarks: Minor oil and gas show reported by J. H. Voorhees at 866-912 ft. Three artesian water zones between the surface and 540 ft depth had a combined flow of 2,800 GPM. This well was redrilled to a depth of 3,456 ft in 1955-56 by J. D. Blalack.

VOORHEES, JESS H.

No. 2 Fee Well

API no.: 27-015-05002

Permit no.: LA9

Location: center, S $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 27, T32N, R45E

Elevation: 4,537 ft

Completed: 1947

Status: D & A

Depth: 540 ft

Remarks: Three artesian water zones encountered that had a combined flow of 2,800 GPM.

VOORHEES, JESS H.

No. 1 S

API no.: 27-015-04997

Permit no.: LA7

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T32N, R46E

Completed: 1946

Status: D & A

Depth: 326 ft

Remarks: This well was drilled for stratigraphic information.

VOORHEES, JESS H.

No. 2 S

API no.: 27-015-04996

Permit no.: LA6

Location: SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T32N, R46E

Completed: 1946

Status: D & A

Depth: 412 ft

Remarks: This well was drilled for stratigraphic information.

VOORHEES, JESS H.

No. 3 S

API no.: 27-015-04995

Permit no.: LA5

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T31N, R46E

Completed: 1946

Status: D & A

Depth: 639 ft

Remarks: This well was drilled for stratigraphic information.

VOORHEES, JESS H.

No. 4 S

API no.: 27-015-04994

Permit no.: LA4

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T32N, R45E

LANDER COUNTY (continued)

Completed: 1946

Status: D & A

Depth: 329 ft

Remarks: This well was drilled for stratigraphic information.

VOORHEES, JESS H.

No. 5 S

API no.: 27-015-04993

Permit no.: LA3

Location: NW¼NW¼ sec. 27, T32N, R45E

Completed: 1946

Status: D & A

Depth: 143 ft

Remarks: This well was drilled for stratigraphic information.

VOORHEES, JESS H.

No. 6 S

API no.: 27-015-04992

Permit no.: LA2

Location: SE¼SE¼ sec. 3, T32N, R45E

Completed: 1946

Status: D & A

Depth: 448 ft

Remarks: This well was drilled for stratigraphic information.

LINCOLN COUNTY

Few wells have been drilled in Lincoln County, and only one well is known to have oil shows. Two surface occurrences (secs. 1 and 12, T6N, R62E; and sec. 34, T4N, R65E) of tarry bitumen are found in fossil cavities and calcite veinlets which occur in limestone concretions in the Mississippian Chainman Shale (Poole and Claypool, 1984; Bortz, 1985). Some hydrocarbon gas has been reported in some shallow water wells in Pahrangat Valley in south-central Lincoln County (Scott McDaniel, oral commun., 1986).

Well Data

AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

Adobe Federal No. 19-1

API no.: 27-017-05203

Permit no.: 270

Location: NE¼SW¼ sec. 19, T2N, R60E

1,980 ft from south line, 1,980 ft from west line

Elevation: 4,990 ft

Completed: Oct. 14, 1979

Status: Water well

Depth: 7,706 ft

Logs:

DI	160-7,683 ft
BHCS	160-7,676 ft
Cyberlook	4,750-7,683 ft
CNL/FDC	5,750-7,690 ft

Samples:

Cuttings	150-7,700 ft
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Remarks: Fresh water zone at 4,605-4,767 ft.

AMOCO PRODUCTION CO.

Dutch John Unit No. 1

API no.: 27-017-05204

Permit no.: 421

Location: NE¼NE¼SW¼ sec. 21, T7N, R66E

2,330 ft from south line, 2,350 ft from west line

Elevation: 5,923 ft

Completed: Nov. 14, 1985

Status: P & A

Depth: 12,750 ft

Tops:

Surface	Quaternary valley fill
2,196 ft	Tertiary volc.
4,906 ft	Pennsylvanian ls.
5,770 ft	Mississippian Diamond Peak ss.
6,592 ft	Mississippian Chainman Sh.
8,028 ft	Mississippian Joana ls.
8,602 ft	Devonian Pilot Sh.
8,756 ft	Devonian Guilmette Fm.
11,712 ft	Devonian Simonson Dol.

Logs:

Lithologic	0-12,750 ft
CNL/FDC	2,299-12,754 ft
DM	2,299-12,753 ft
GR	2,299-12,754 ft
BHCS	150-12,752 ft
MLL	8,120-12,743 ft
Cal	406-2,294 ft
CBL	5,600-8,120 ft
DI	2,299-11,502 ft

Samples:

Cuttings	0-12,750 ft
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Remarks: Oil shows at 5,800-6,800 ft.

AMOCO PRODUCTION CO.

Garden Valley No. 1

API no.: 27-017-05207

Permit no.: 470

Location: NE¼SW¼ sec. 27, T2N, R57E

1,947 ft from south line, 2,372 ft from west line

Elevation: 5,516 ft

Completed: Apr. 3, 1986

Status: P & A

Depth: 6,401 ft

Tops:

Surface	Quaternary valley fill
3,150 ft	Tertiary volc.
5,900 ft	Paleozoic(?) ls.

Logs:

Lithologic	1,200-6,393 ft
CN/FDC	1,797-6,372 ft
BHCS	1,650-6,340 ft
DM	1,797-6,372 ft
DI	1,650-6,369 ft

Samples:

Cuttings	1,800-6,400 ft
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BRENT ENERGY, INC.

Shogrin Federal No. 1

API no.: 27-017-05205

Permit no.: 424

Location: SW¼NE¼SE¼ sec. 16, T6N, R66E

1,535 ft from south line, 1,025 ft from east line

Elevation: 5,954 ft

Completed: Sept. 24, 1985

Status: P & A

Depth: 9,178 ft

Logs:

Lithologic	1,550-9,178 ft
DI	8,137-9,162 ft
GR	1,592-8,144 ft
CNL	460-8,116 ft

LINCOLN COUNTY (continued)

LSS/BHCS 8,130-9,162 ft
Samples:
 Cuttings 1,534-9,180 ft
Remarks: DST 8,730-9,178 ft recovered 2,500 ft of water.

FLETCHER, C.H.**Fletcher No. 1**

API no.: 27-017-05206
Permit no.: 459
Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T8N, R70E
 2,343 ft from south line, 2,422 ft from west line
Elevation: 5,740 ft
Completed: Jan. 8, 1986
Status: P & A
Depth: 7,481 ft
Tops:

1,884 ft	Tertiary ss.
2,240 ft	Tertiary anhydrite
4,050 ft	Tertiary claystone & ls.
4,875 ft	Tertiary conglomerate
5,870 ft	Tertiary volc.(?)
5,924 ft	Tertiary claystone & ls.
6,436 ft	Tertiary volc. tuff
7,481 ft	Tertiary TD in volc.

Logs:

Lithologic	410-7,480 ft
BHCS/GR	396-7,469 ft
DI	396-7,469 ft

Samples:

Cuttings	408-7,481 ft
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GULF OIL CORP.**Cave Valley Unit Federal No. 1**

API no.: 27-017-05001
Permit no.: 100
Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T7N, R64E
 680 ft from south line, 500 ft from east line
Elevation: 6,037 ft
Completed: July 6, 1966
Status: P & A
Depth: 7,024 ft
Tops:

Surface	valley fill
6,205 ft	base of valley fill
6,630 ft	Paleozoic

Logs:

Lithologic	0-7,024 ft
DIL	488-7,024 ft
FDL	488-7,023 ft
BHCS/GR	488-7,014 ft
ML	488-7,023 ft

Remarks: Water sands at 250-260 ft and 1,160-1,270 ft.

GULF OIL CORP.**Nevada-Federal CM No. 1**

API no.: 27-017-05002
Permit no.: 95
Location: center, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17, T1S, R60E
 660 ft from north line, 660 ft from west line
Elevation: 4,940 ft
Completed: Mar. 7, 1966
Status: P & A
Depth: 2,434 ft
Logs:
 BHCS/GR 0-2,428 ft
 DIL 768-2,432 ft

FDL	768-2,435 ft
ML	768-2,435 ft
DM	768-2,432 ft

Remarks: Water zone at 660-800 ft.

PEASE, WILLARD DRILLING CO.**Federal No. 1**

API no.: 27-017-05000
Permit no.: 79
Location: center, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T9N, R63E
 660 ft from north line, 1,980 ft from east line
Elevation: 6,540 ft at DF
Completed: May 9, 1965
Status: P & A
Depth: 6,264 ft
Logs:
 IES 504-6,268 ft
 S/Cal 504-6,271 ft

TENNECO OIL CO.**GB Core Hole No. 13**

API no.: 27-017-05200
Permit no.: 138
Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T7N, R63E
 2,250 ft from north line, 2,200 ft from west line
Elevation: 6,200 ft
Completed: Aug. 19, 1970
Status: P & A
Depth: 488 ft
Tops:

Surface	alluvium
13 ft	Pennsylvanian Ely Ls.
265 ft	Mississippian Diamond Peak Fm. and Chainman Sh.

Logs:

Lithologic	0-488 ft
GR	0-489 ft

Samples:

Cuttings	0-480 ft
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Remarks: Water at 288 ft.

TEXACO INC.**Federal No. 1**

API no.: 27-017-05201
Permit no.: 155
Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T12S, R65E
 2,800 ft from south line, 200 ft from east line
Elevation: 3,693 ft
Completed: Dec. 4, 1972
Status: P & A
Depth: 7,030 ft
Logs:

Lithologic	650-7,030 ft
DLL	30-7,016 ft
CNL/FDC	2,300-6,538 ft
PML	2,300-6,538 ft
DM	2,300-7,026 ft

Samples:

Cuttings	20-7,030 ft
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Remarks: Palynology and source-rock report available at NBMG.

LYON COUNTY

Considerable oil prospecting took place in Lyon County in the early 1900's, and at least two wells were drilled. Anderson (1909c) reported that there was little

LYON COUNTY (continued)

hope for an appreciable quantity of oil to be found, and no confirmed oil shows or seeps were known from the county. Anderson (1909c) stated that black manganese oxide minerals in Quaternary sediments in Smith Valley could be mistaken for asphalt. He also mentioned that a constant stream of flammable gas issued from one point in the center of the valley floor. He suggested that it was marsh gas (biogenic methane), not an indicator of oil, a suggestion that still appears valid today.

Well Data

NEVADA COAL & OIL CO.

API no.: 27-019-05001

Permit no.: LY2

Location: sec. 36, T8N, R27E; or sec. 1, T7N, R27E

Completed: 1920

Status: D & A

Remarks: This well is located along the East Fork of the Walker River near Washington mining district and Wichman Canyon, approximately 30 miles south of Yerington.

YERINGTON OIL & GAS CO.

API no.: 27-019-05000

Permit no.: LY1

Location: T15N, R26E

Status: D & A

Depth: 262 ft

Tops:

Surface
248 ft

sand
porphyritic igneous rock

Logs:

Driller 0-262 ft

Remarks: This well is located 7 to 10 miles east of Wabuska and north of the bend in the Walker River.

NYE COUNTY

Although there are some indications of oil exploration in Nye County during the oil boom of the early twentieth century, there are no reliable records of any drilling before 1954. Serious planning was given to the drilling of a well near Currant in 1920 (Engineering and Mining Journal, 1920), and this well may be the one being drilled in figure 8, but no further information is available.

The presence of oil and tarry or solid bitumen in outcrop has been noted in a number of places in northwestern Nye County. At Bisoni-McKay (secs. 17, 18, and 19, T14N, R52E), solid bitumen veinlets in siliceous limestone of the Devonian Woodruff Formation were reported by Poole and Claypool (1984). They also reported oil-filled fossil cavities in the Mississippian Chainman Shale in four localities: Duckwater Hills (sec. 21, T13N, R56E; Youngquist, 1949, p. 277), Sand Spring (sec. 32, T12N, R55E), Andrews Spring (sec. 26, T9N, R58E), and Forest Home Creek (sec. 17, T6N, R59E). In addition, minor oil staining was observed by Bortz (1985) in limestone of the Tertiary Sheep Pass Formation in the Grant Range east of the Eagle Springs field (sec. 26?, T9N, R58E).

Diana's Punch Bowl (sec. 22, T14N, R47E), a warm spring in north-central Nye County, has been suggested

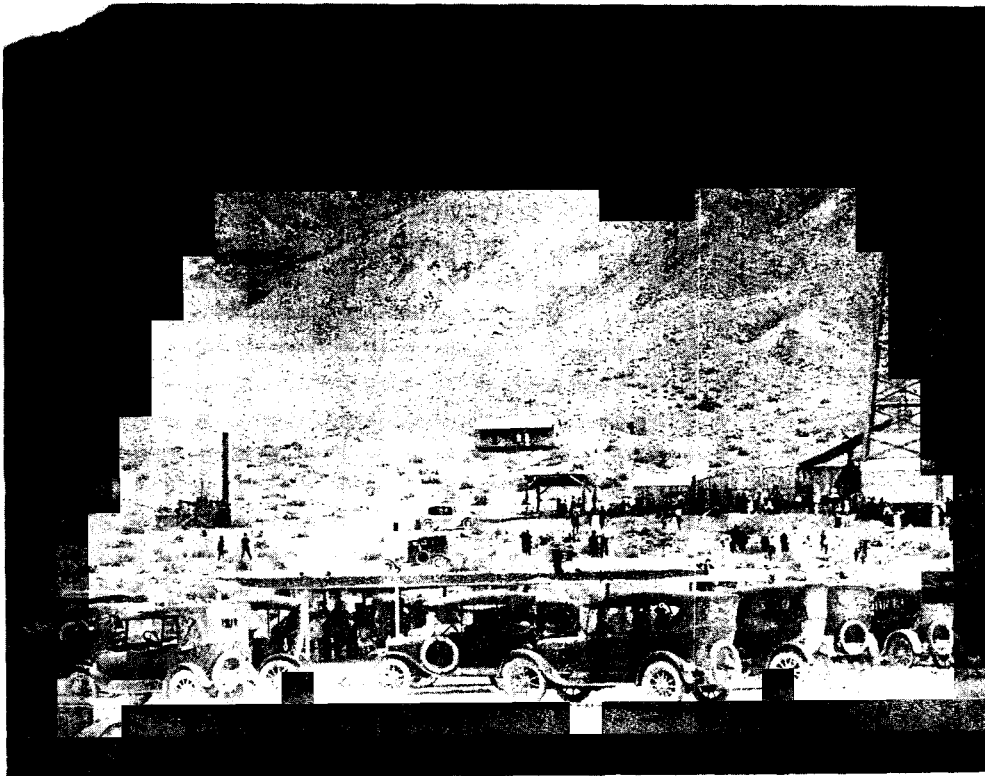


FIGURE 8.—Oil exploration in Nye County during the 1920's; exact location unknown. Nevada Historical Society photo.

NYE COUNTY (continued)

as a possible hydrocarbon gas seep, although no gas composition is reported (Bortz, 1985, p. 122). Spurr (1905, p. 257) reported that J. L. Butler, the discoverer of the outcrops of silver ore at Tonopah, said that gas was formerly emitted from the warm spring pool, and flames were occasionally seen. A warm spring at Pott's Ranch, in sec. 2, T14N, R47E, about 3 miles north of Diana's Punch Bowl, is reported to emit gas of an unknown composition (Bortz, 1985). These springs are in the central part of the valley and may be underlain by Quaternary sediments capable of generating biogenic methane.

Nevada's first producing oil well, the Shell Oil Co. Eagle Spring Unit No. 1-35, was drilled in Nye County in 1954. It took 22 years of exploration drilling before Northwest Exploration Co. drilled the discovery well of Nevada's second oil field, located only 8 miles west of the Eagle Springs field (fig. 9, pl. 1). One hundred and sixty wells have been drilled in Railroad Valley in search of oil and gas, and those along with others drilled elsewhere in the northeastern part of the county total 179, making Nye the most-drilled county in the state.

Through the end of 1986, six fields have been discovered in Railroad Valley. Available data on each of the fields are summarized in the following subsection, using the format of Duey (1983d). Oil characteristics of these fields are summarized in table 1. There is considerable variation among the fields and the oil produced. Some are one-well fields. The productive areas of fields varies from less than 1 to more than 4 square miles, and the depth to production ranges from slightly more than 4,000 ft to more than 7,000 ft. The Bacon Flat and Currant fields (both are one-well fields) are reasonably well constrained by the known structure and surrounding dry holes. The one well at the Kate Spring field was completed in early 1986, and was shut in later in the year due to the declining price of oil and the high cost of pumping the low quality crude. Thus, the extent of the Kate Spring field is yet to be tested.

Many references in the bibliography of this report describe aspects of the Railroad Valley oil fields. No attempt is made here to present a complete geologic discussion of the valley and adjacent mountain ranges. Duey (1983d) presented a summary of the structure and

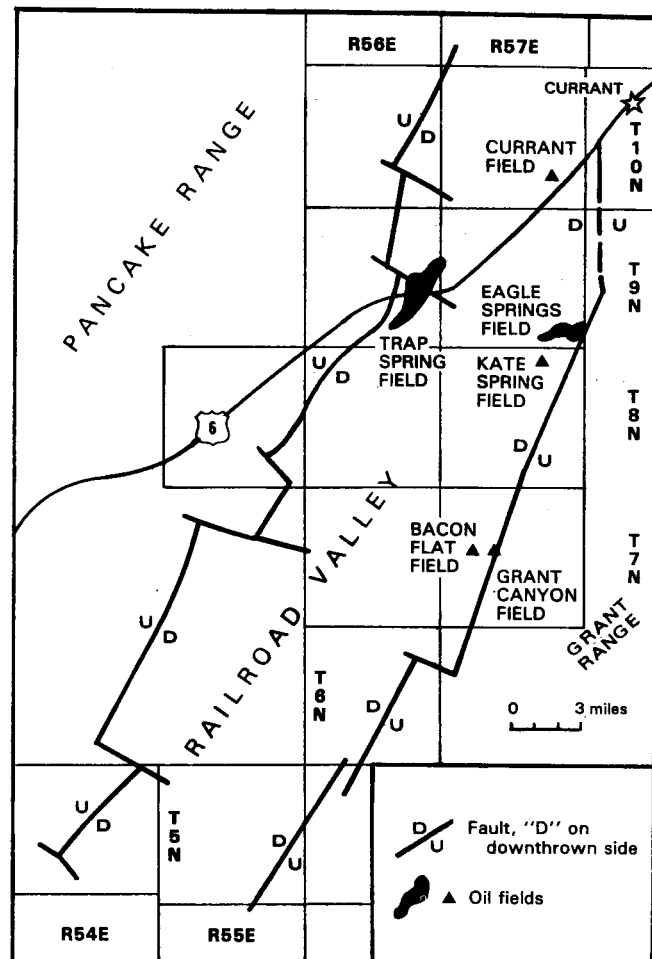


FIGURE 9.—Major normal faults in Railroad Valley (after Duey, 1983d, fig. 2).

stratigraphy of the valley: Bortz and Murray (1978a,b, 1979) and Duey (1979) described the geology at the Trap Spring and Eagle Springs fields. Other specific references on the area include Dolly (1979), Foster (1979), French and Freeman (1979a), Guion and Pearson (1979), Vreeland and Berrong (1979), and French (1983a,b).

TABLE 1.—Characteristics of oils from Railroad Valley fields, Nye County (mainly from Duey, 1983d, and written commun., 1986)

Field	API gravity	Pour point	Color	Sulfur	Saybolt viscosity			T _r	Reservoir depth (approx)
					oil 100°F	oil T _r	water T _r		
Bacon Flat	28°	10°F	Black	0.4%	173	45	0.34	309°F	5,300 ft
Currant	15°	80–95°F	Bl-brown	3.9%	28,500	520	0.35	195°F	7,000 ft
Trap Spring	21–25°	0–40°F	Black	0.8%	90	90	0.75	95°F	4,500 ft
Eagle Springs	26–29°	65–80°F	Black	1.7%	66	5	0.34	200°F	6,000 ft
Grant Canyon	26°	10°F	Black	0.8%	312	80 (est.)	0.35	230°F	4,000 ft
Kate Spring	10.5°	?	?	?	?	?	?	180°F	4,800 ft

T_r = reservoir temperature

NYE COUNTY (continued)

Railroad Valley Field Summaries

EAGLE SPRINGS (see figs. 10 and 11)

Source of information: Duey (1983d)

Geology

Producing formation: Oligocene Garrett Ranch Volc.,
Eocene Sheep Pass Fm., Pennsylvanian Ely(?) Ls.

Trap type: structural-stratigraphic

Thickness and lithology of reservoir rock:
maximum 275 ft, ignimbrite, limestone

Oldest formation penetrated: Cambrian

Reservoir data

Productive area: 640 acres

Number of producing wells: 11

Number of abandoned wells: 3

Number of dry holes: 10

Porosity: ignimbrites 13.5%, Sheep Pass Fm. 16%

Seal: indurated valley fill (Horse Camp Fm.)

Oil/water contact: -2,000 ft

Vertical oil column: 1,500 ft

Gas analysis: unknown, but low gas/oil ratio

Associated water analysis: Cl 24,298 mg/L; R_w 0.32 $\Omega \cdot m$
at 70°F

Type of drive: water and gravity drainage

Discovery well

Shell Eagle Springs Unit No. 1-35

E½NW¼ sec. 35, T9N, R57E

Date of completion: July 6, 1954

Total depth: 10,358 ft

Initial production: 343 BOPD

Perforations: none; open hole 6,450-6,730 ft

TRAP SPRING (see figs. 12, 13, and 14)

Source of Information: Duey (1983c,d) and NBMG files

Geology

Producing formation: Oligocene tuff of Pritchards
Station

Trap type: structural-stratigraphic

Thickness and lithology of reservoir rock: 847 ft,
fractured ignimbrite

Oldest formation penetrated: Devonian Guilmette Fm.

Reservoir data

Productive area: 2,080 acres

Number of producing wells: 28

Number of abandoned wells: 0

Number of dry holes: 9

Porosity: unknown, fractures

Seal: weathered ignimbrite below unconformity

Oil/water contact: -200 ft

Vertical oil column: 1,700 ft

Associated water analysis: Ca 23, Mg 6, Na 2100,
Fe 0, Cl 3,020, HCO₃ 488, SO₄ 26 mg/L; R_w 1.1 $\Omega \cdot m$ at
68°F.

Type of drive: water

Discovery well

Northwest Exploration Trap Spring No. 1

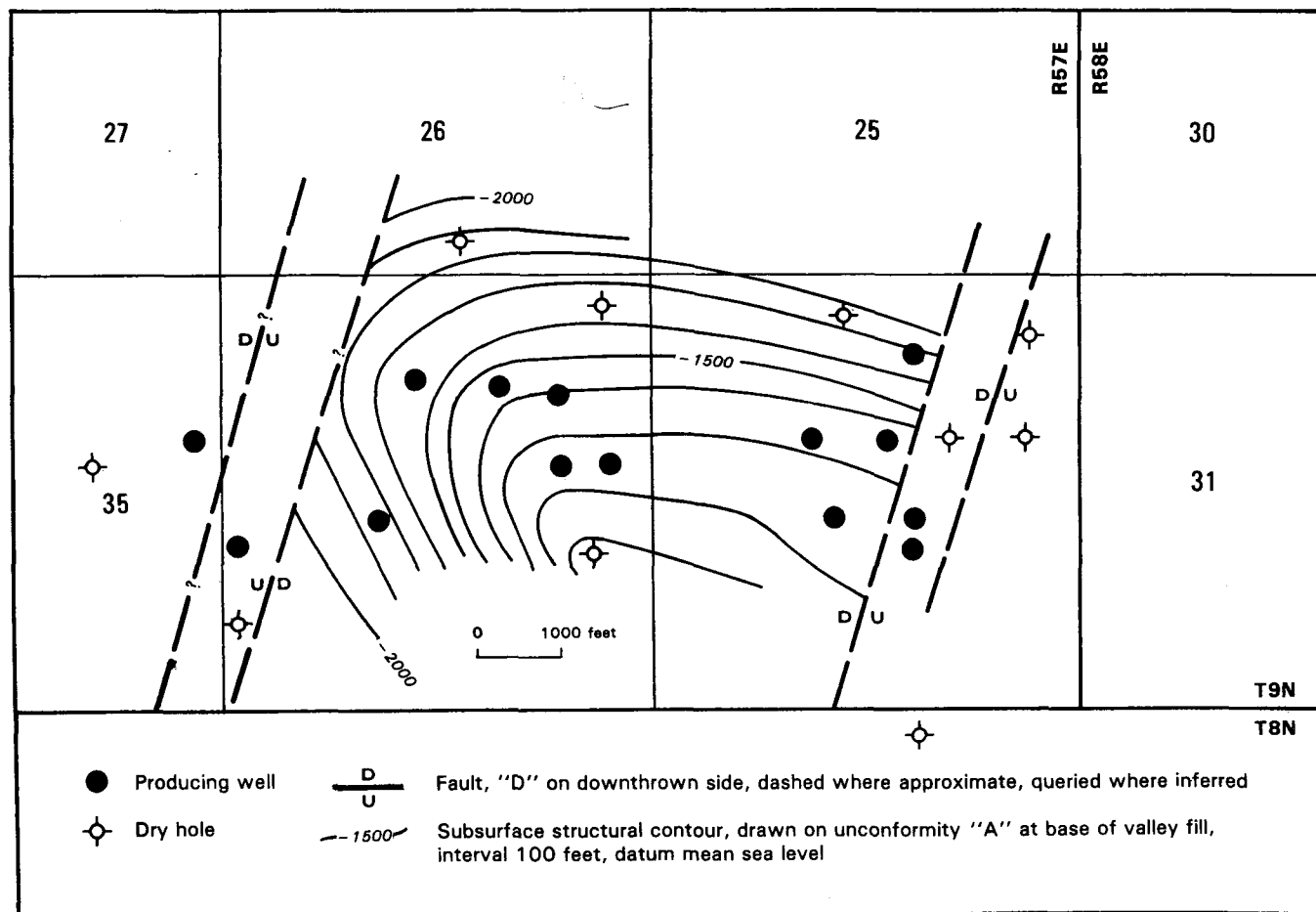


FIGURE 10.—Structural contour map of the Eagle Springs field (from Bortz and Murray, 1979, fig. 6).

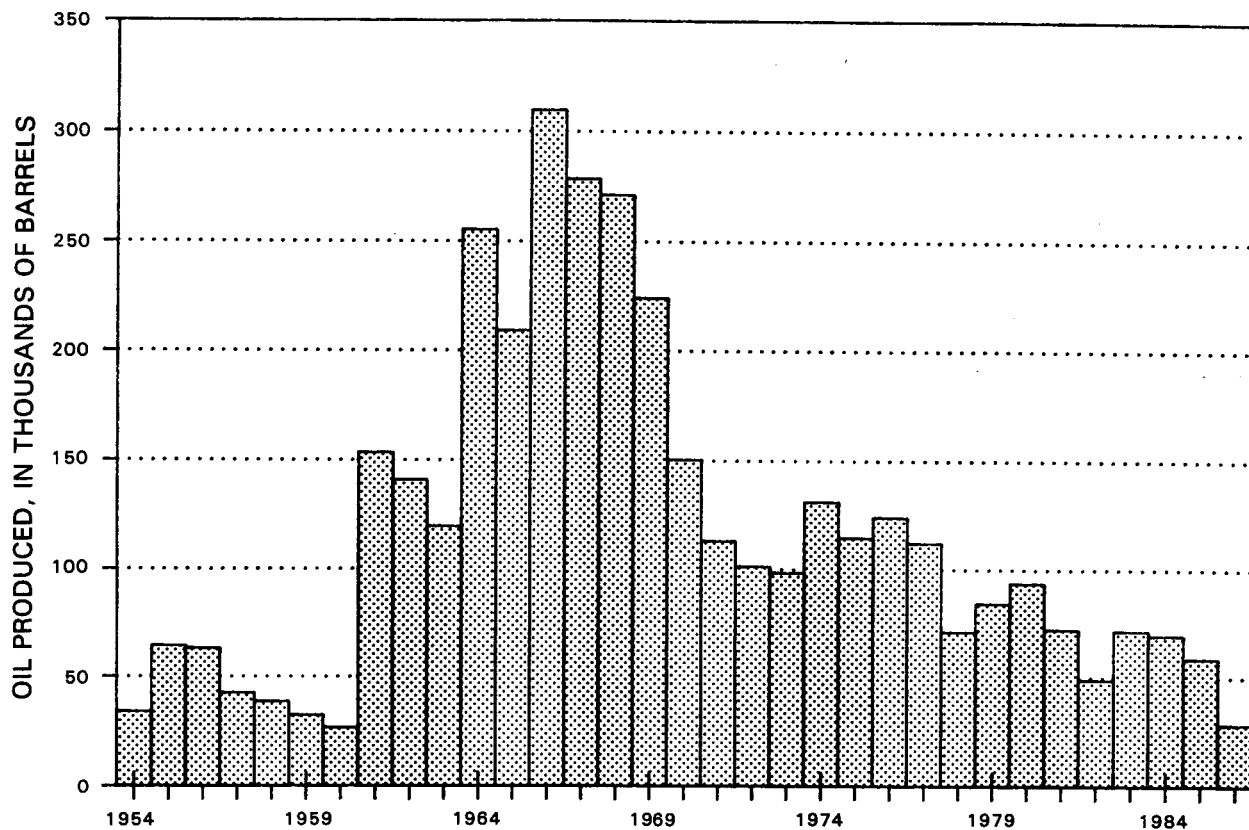


FIGURE 11.—Oil production of the Eagle Springs field.

SE¼SE¼ sec. 27, T9N, R56E
 Date of completion: Nov. 30, 1976
 Total depth: 6,137 ft
 Initial production: 417 BOPD
 Perforations: none; open hole 4,220–4,853 ft

CURRENT

Source of information: Duey (1983b,d)

Geology

Producing formation: Eocene Sheep Pass Fm.
 Trap type: structural (?)
 Thickness and lithology of reservoir rock: 380 ft, shaly limestone
 Oldest formation penetrated: Devonian Sevy Dol.

Reservoir data

Productive area: 40 acres (?)
 Number of producing wells: 0 (The only producer was P & A in 1986)
 Number of abandoned wells: 1
 Number of dry holes: 0
 Porosity: 6%
 Seal: shales in the Tertiary Sheep Pass Fm.

Discovery well

Northwest Exploration Current No. 1
 SE¼SW¼ sec. 26, T10N, R57E
 Date of completion: Oct. 21, 1978
 Total depth: 7,800 ft
 Initial production: 10 BOPD
 Perforations: 6,856–6,994 ft and 7,038–7,080 ft

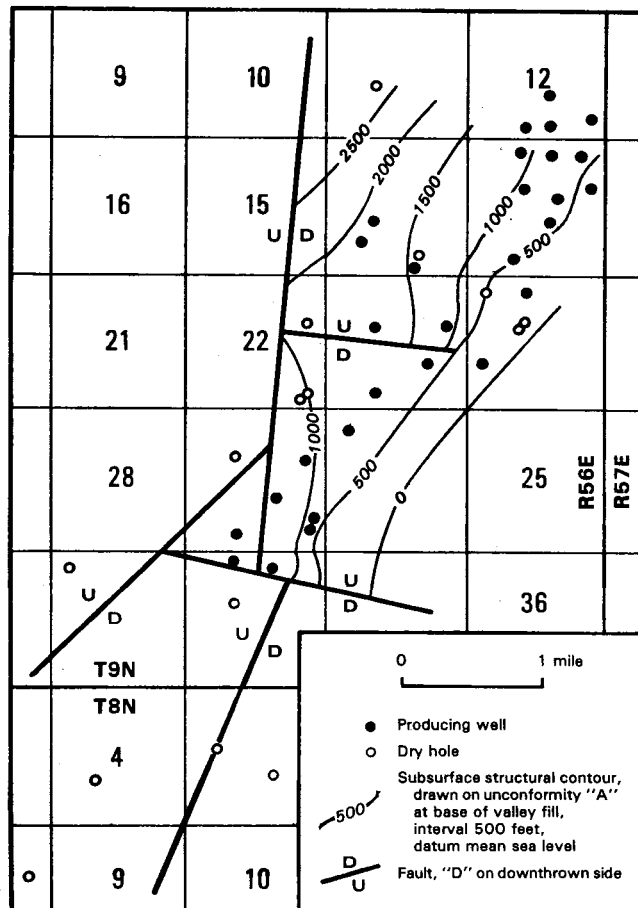


FIGURE 12.—Structural contour map of the Trap Spring field (modified from Duey, 1983c, fig. 8).

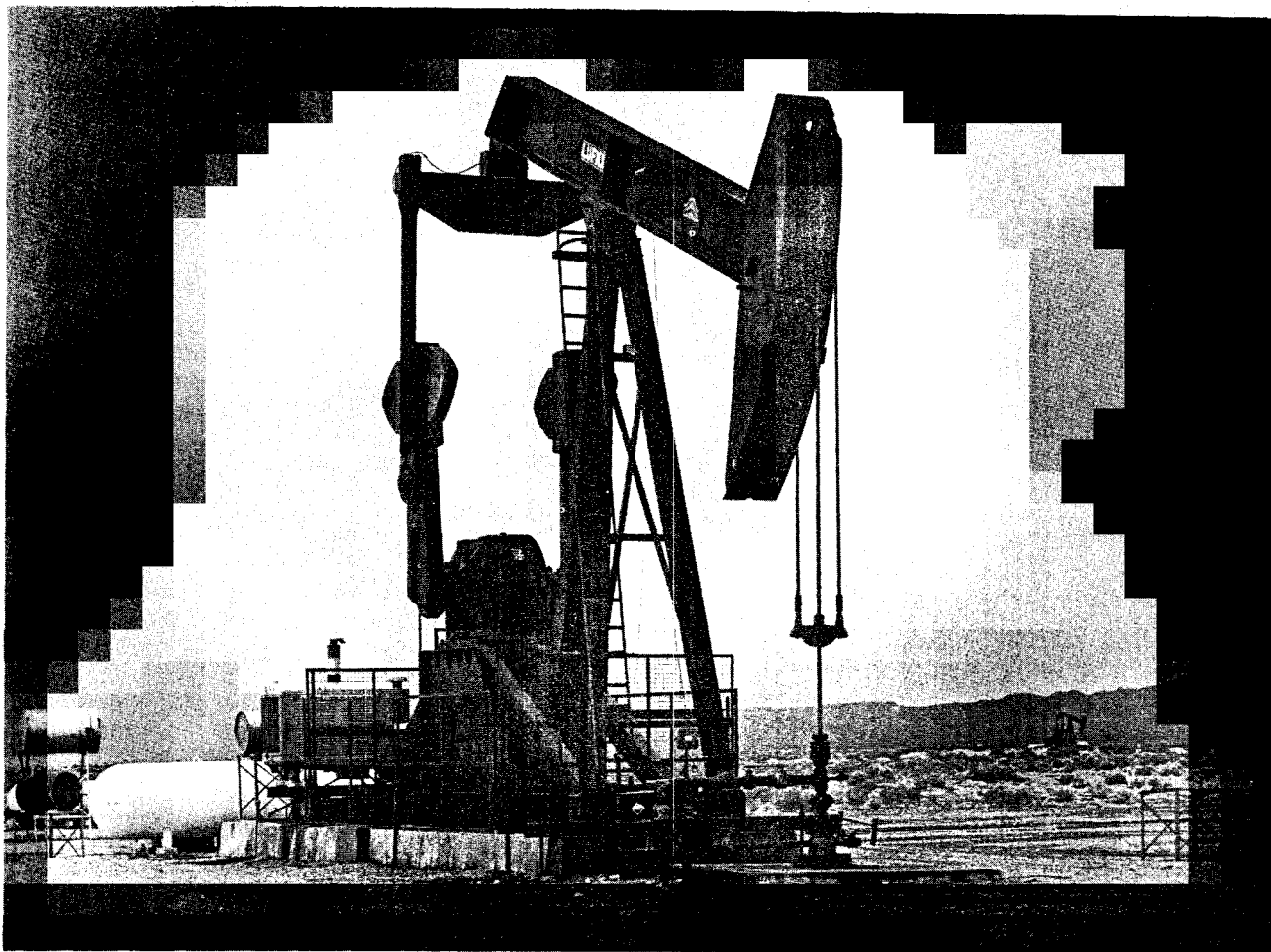


FIGURE 13.—Pumping unit in operation at a Northwest Exploration Co. well in the Trap Springs oil field, Nye County.
Laurie Engle photo.

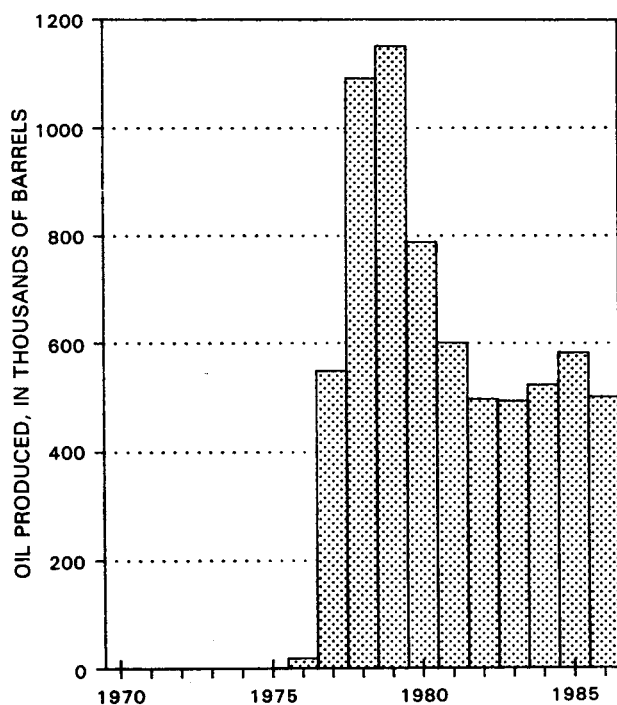


FIGURE 14.—Oil production of the Trap Spring field.

NYE COUNTY (continued)

BACON FLAT (see fig. 15)

Source of information: Duey (1983a,d)

Geology

Producing formation: Devonian Guilmette Fm.(?)
Trap type: structural
Thickness and lithology of reservoir rock: 134 ft, dolomite
Oldest formation penetrated: Devonian Simonson Dol.

Reservoir data

Productive area: 160 acres
Number of producing wells: 1
Number of abandoned wells: 0
Number of dry holes: 3
Porosity: 8–12% plus fractures
Seal: weathered Tertiary ignimbrite above Paleozoic subcrop
Vertical oil column: 134 ft +
Associated water analysis: Na 1,186, Ca 29, Mg 18, Fe 5.8, Cl 435, HCO₃ 2,183, SO₄ 226 mg/L; R_w 2.3 Ω·m at 68°F
Type of drive: water(?)

Discovery well

Northwest Exploration Bacon Flat No. 1
SW ¼SW ¼ sec. 17, T7N, R57E
Date of completion: July 5, 1981

Total depth: 5,450 ft
Initial production: 200 BOPD and 1,050 BWPD
Perforations: 5,316–5,333 ft

GRANT CANYON (see figs. 16 and 17)
Source of information: Herbert D. Duey
(written commun., 1986)

Geology

Producing formation: Devonian Simonson Dol.
Trap type: structural-stratigraphic
Thickness and lithology of reservoir rock: over 300 ft, dolomite
Oldest formation penetrated: Devonian Simonson Dol.

Reservoir Data

Productive area: 240 acres
Number of producing wells: 3
Number of abandoned wells: 0
Number of dry holes: 3
Porosity: 8–14%
Seal: indurated and clayey valley fill
Associated water analysis: Na 720, Ca 132, Mg 8, Cl 640, HCO₃ 695, SO₄ 540 mg/L; R_w 2.92 Ω·m at 68°F
Type of drive: artesian water

Discovery well

Northwest Exploration Grant Canyon No. 1
SW ¼NW ¼ sec. 21, T7N, R57E
Date of completion: Sept. 11, 1983
Total depth: 4,487 ft
Initial production: flowed 1,816 BOPD; began producing water after about 500,000 barrels of oil were produced
Perforations: 4,374–4,392 ft and 4,415–4,448 ft

KATE SPRING

Source of information: NBMG files

Geology

Producing formation: Pennsylvanian Ely Ls.

Thickness and lithology of reservoir rock: 100 ft, limestone
Oldest formation penetrated: Devonian Guilmette Fm.

Reservoir Data

Number of producing wells: 1 (shut in, 1986)
Number of abandoned wells: 0
Number of dry holes: 0

Discovery well

Marathon Oil Co. Kate Spring No. 1
W ½SW ¼ sec. 2, T8N, R57E
Date of completion: Jan. 7, 1986
Total depth: 7,501 ft
Initial production: 345 BOPD and 1,371 BWPD
Perforations: 4,722–4,824 ft

Well Data

AMOCO PRODUCTION CO.

Bullwhacker Springs No. 1

API no.: 27-023-05280

Permit no.: 265

Location: center, NE ¼SW ¼ sec. 22, T7N, R56E
1,980 ft from south line, 1,980 ft from west line

Elevation: 4,708 ft

Completed: Oct. 25, 1979

Status: P & A

Depth: 9,200 ft

Logs:

DIL	1,007–9,202 ft
CNL/FDC	1,006–9,207 ft
BHCS	1,007–9,204 ft
TS	116–9,209 ft
DM	1,008–9,206 ft
Cyberdip	1,010–9,190 ft
Fracture identification	6,036–9,205 ft
Cyberlook	6,280–9,180 ft
Samples:	
Cuttings	60–9,200 ft

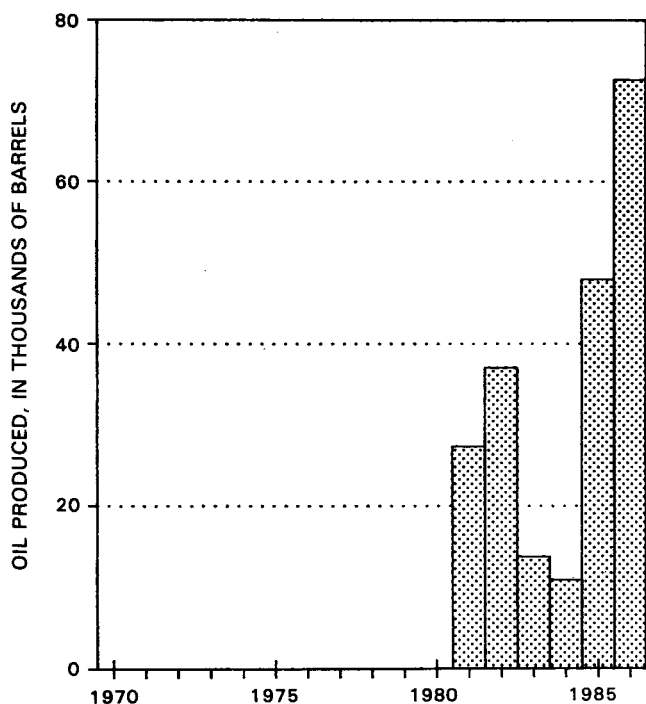


FIGURE 15.—Oil production of the Bacon Flat field.

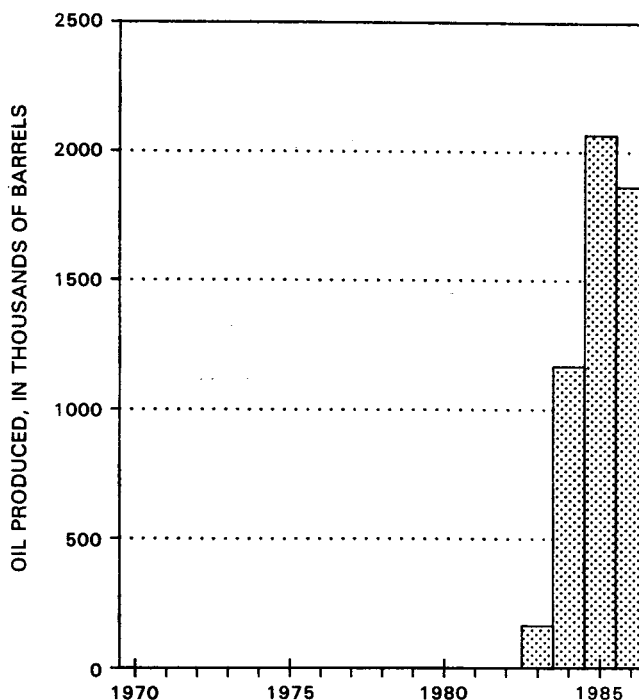


FIGURE 16.—Oil production of the Grant Canyon field.



FIGURE 17.—Mapco Oil and Gas Co. drilling rig at the Grant Canyon field in 1984. Scott McDaniel photo.

NYE COUNTY (continued)

AMOCO PRODUCTION CO.

Sunnyside Unit No. 1

API no.: 27-023-05385

Permit no.: 478

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T6N, R62E

650 ft from south line, 1,200 ft from west line

Elevation: 5,300 ft

Completed: Aug. 16, 1986

Status: P & A

Depth: 6,550 ft

Tops:

Surface	Quaternary valley fill
1,500 ft	Paleozoic valley fill
3,700(?) ft	Paleozoic sh.
5,930 ft	Paleozoic ls.

Logs:

Lithologic	70-6,550 ft
FDC/N/GR	1,510-6,545 ft
DLL/MLL	1,510-6,544 ft
DM	1,510-6,535 ft
BHCS	1,510-6,535 ft

Samples:

Cuttings	1,510-6,500 ft
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Remarks: Oil shows at 3,614-3,688 ft, 3,728-3,780 ft, 4,160-4,225 ft, 4,434-4,530 ft, and 6,039-6,046 ft. Gas shows reported on DST's at 1,442-1,571 ft and 3,680-3,785 ft.

AMOCO PRODUCTION CO.

White River Unit No. 3

API no.: 27-023-05327

Permit no.: 371

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T5N, R61E

1,900 ft from south line, 1,200 ft from west line

Elevation: 5,262 ft

Completed: June 29, 1984

Status: P & A

Depth: 8,700 ft

Logs:

Lithologic	70-8,700 ft
LSS	274-8,680 ft
FDC/CNL	6,637-8,687 ft
DLL	6,637-8,676 ft
CBL/Cal	5,128-6,632 ft
CBL	1-2,751 ft

Samples:

Cuttings	70-8,700 ft
----------	-------------

Remarks: Oil and gas show between 3,504 and 3,578 ft.

APACHE CORP.

Hot Creek Federal No. 24-13

API no.: 27-023-05294

Permit no.: 302

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T8N, R50E

500 ft from south line, 650 ft from west line

Elevation: 5,729 ft

Completed: Apr. 27, 1981

Status: P & A

Depth: 11,028 ft

Tops:

Surface	Quaternary valley fill
7,060 ft	Tertiary volc.
9,750 ft	Paleozoic slump block
9,960 ft	Tertiary basal volc.
9,980 ft	Devonian Nevada Fm.
	(unconformity and fault)
10,390 ft	fault

Logs:

Lithologic	600-11,060 ft
Directional	7,412-9,708 ft
DM	7,504-9,718 ft
CNL/FDC	7,494-9,700 ft
BHCS	450-11,002 ft
Cal	490-7,506 ft
TS	30-7,600 ft
DI	487-11,002 ft
FIL	7,506-9,718 ft
Engineered production	480-7,520 ft

Samples:

Cuttings	600-11,060 ft
----------	---------------

Remarks: Gas shows at 8,890-8,892 ft, 8,900-8,902 ft, 8,917 ft, 9,017 ft, 9,032 ft, 9,038-9,047 ft, 9,066-9,068 ft, and

9,142-9,148 ft. Dead oil show on flow tests. Gas shows in DST at 8,485-8,600 ft and 8,445-8,600 ft.

APACHE CORP.

Warm Springs Federal No. 10-14

API no.: 27-023-05301

Permit no.: 310

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T4N, R50E

660 ft from south line, 1,980 ft from west line

Elevation: 5,340 ft

Completed: June 26, 1981

Status: P & A

Depth: 9,180 ft

Tops:

Surface	Quaternary valley fill
4,299 ft	Tertiary volc.
8,770 ft	Mississippian Eleana Fm.

Logs:

Lithologic	535-9,180 ft
FIL	539-9,166 ft
DI	539-9,165 ft
BHCS	539-9,169 ft

Samples:

Cuttings	540-9,183 ft
----------	--------------

BTA OIL PRODUCERS

Stone Cabin No. 1

API no.: 27-023-05374

Permit no.: 456

Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T5N, R48E

1,850 ft from north line, 1,530 ft from west line

Elevation: 6,044 ft

Completed: Feb. 16, 1986

Status: P & A

Depth: 9,815 ft

Logs:

Lithologic	621-9,800 ft
DLL	622-9,789 ft
CN/FDC	622-9,801 ft
LSS	622-9,793 ft
DM	622-9,802 ft
Cal	622-9,802 ft

Samples:

Cuttings	621-9,815 ft
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Remarks: DST in volcanics returned 180 ft of mud.

BTA OIL PRODUCERS

Stone Cabin No. 2

API no.: 27-023-05375

Permit no.: 457

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T6N, R47E

1,910 ft from north line, 330 ft from east line

Elevation: 6,162 ft

Completed: Mar. 2, 1986

Status: P & A

Depth: 1,184 ft

Samples:

Cuttings	628-1,184 ft
----------	--------------

Remarks: DST in volcanics returned 833 ft of fresh water.

BANDINI PETROLEUM CO.

Harris Government No. 1

API no.: 27-023-05018

Permit no.: 15

Location: center, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T10N, R57E

660 ft from north line, 1,980 ft from east line

Elevation: 4,990 ft (at KB)

Completed: Nov. 26, 1954

Status: P & A

Depth: 5,556 ft

Tops (from PI):

Surface	valley fill
4,320 ft	Tertiary volc.
5,550 ft	Devonian dol.

Logs:

Lithologic	0-5,556 ft
ES	680-5,532 ft
ML	680-5,550 ft
GR/N	10-5,553 ft

Samples:

Core	5,536-5,550 ft
Cuttings	40-5,480 ft

Remarks: Core descriptions available on 4,509-4,519 ft, 5,269-5,276 ft, and 5,536-5,556 ft at NBMG.

BUCKHORN PETROLEUM CO.

Adobe Federal No. 16-1

API no.: 27-023-05315

Permit no.: 343

Location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T6N, R54E

415 ft from south line, 1,459 ft from east line

Elevation: 4,749 ft

Completed: Oct. 16, 1982

Status: P & A

Depth: 3,945 ft

Tops:

Surface	valley fill
804 ft	volc.
3,718 ft	Mississippian Joana Ls.
3,856 ft	Mississippian Pilot Sh.
3,880 ft	Devonian Guilmette Fm.

Logs:

Lithologic	60-3,945 ft
DIL/GR	822-3,933 ft
BHCS	70-3,930 ft
FDC/CNL	822-3,942 ft
DM	827-3,943 ft
DLL	3,600-3,930 ft
Cyberlook	3,700-3,930 ft

Samples:

Cuttings	60-3,930 ft
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Remarks: Oil and gas show at 1,240-1,250 ft. Gas show at 3,719-3,720 ft. Oil show at 3,877-3,883 ft. Oil show in DST at 1,218-1,312 ft.

BUCKHORN PETROLEUM CO.

Chuckwagon Federal No. 10-14

API no.: 27-023-05316

Permit no.: 345

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T5N, R54E

2,200 ft from south line, 1,800 ft from east line

Elevation: 4,814 ft

Completed: Nov. 22, 1981

Status: P & A

Depth: 7,000 ft

Tops:

Surface	Quaternary valley fill
792 ft	Tertiary volc.

Logs:

Lithologic	106-7,000 ft
DIL/GR	805-6,994 ft
CNL	805-6,997 ft
BHCS	805-6,965 ft
FIL	805-6,998 ft
DM	805-6,997 ft

Samples:

Cuttings	90-7,000 ft
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NYE COUNTY (continued)

Remarks: Extensive water flows at 807-836 ft (200 GPM). Gas show at 1,512-1,570 ft. Oil shows at 2,376-2,395 ft and 4,776-4,834 ft.

BULLWACHER OIL, INC.

Bullwhacker No. 1

API no.: 27-023-05328

Permit no.: 372

Location: NW¼NW¼NE¼ sec. 28, T7N, R57E

331 ft from north line, 2,308 ft from east line

Elevation: 4,746 ft

Completed: Apr. 18, 1984

Status: P & A

Depth: 4,582 ft

Tops:

Surface	Quaternary valley fill
4,233 ft	quartz monzonite

Logs:

Lithologic	436-4,582 ft
DI/GR/Cal	432-4,572 ft
FDC/CNL/GR/Cal	432-4,539 ft
BHC/GR/CAL	432-4,564 ft
DM	432-4,570 ft
Directional	432-4,570 ft

Samples:

Cuttings	430-4,582 ft
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Remarks: Oil show at 3,790-4,186 ft; gas show at 3,985-4,100 ft.

CELSIUS ENERGY CO.

Duckwater Federal No. 9-1

API no.: 27-023-05359

Permit no.: 419

Location: SE¼ sec. 9, T12N, R57E

1,320 ft from south line, 1,520 ft from east line

Elevation: 5,621 ft

Completed: Dec. 23, 1984

Status: P & A

Depth: 7,115 ft

Tops:

Surface	Quaternary alluvium
2,127 ft	Tertiary Shingle Pass Tuff
2,690 ft	Tertiary Needles Range Fm.
3,890 ft	Tertiary Window Butte Fm.
4,918 ft	Tertiary Currant Tuff
4,918 ft	Tertiary Railroad Valley Rhyolite
6,093 ft	Eocene Sheep Pass Fm.
6,510 ft	Mississippian Scotty Wash Qtz.
6,714 ft	Mississippian Chainman Sh.

Logs:

Lithologic/FDC/CNL	590-7,090 ft
FIL	598-7,080 ft
DI	602-7,084 ft
BHCS	602-7,090 ft
DM	598-7,079 ft

Samples:

Cuttings	601-7,120 ft
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Remarks: Slight oil show at 4,315-4,333 ft and 6,357-6,367 ft.

CHADCO, INC.

Britton No. 13-21

API no.: 27-023-05258

Permit no.: 224

Location: center, NE¼NW¼ sec. 13, T9N, R56E

660 ft from north line, 1,980 ft from west line

Elevation: 4,780 ft

Completed: Apr. 17, 1978

Status: Producer

Field: Trap Spring

Depth: 4,259 ft

Logs:

DI	429-4,259 ft
BHCS/Cal	3,600-4,256 ft
FIL	2,000-4,258 ft
GR/N	2,500-4,175 ft

Samples:

Cuttings	200-4,260 ft
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Remarks: Oil zone at 3,976-4,140 ft in Tertiary volcanics.

DST's at 3,958-4,030 ft and 4,010-4,130 ft had oil shows.

This well initially produced 50 BOPD.

CHADCO, INC.

Pennington No. 22-1

API no.: 27-023-05230

Permit no.: 193

Location: SE¼NE¼ sec. 22, T9N, R56E

Elevation: 4,770 ft

Completed: May 23, 1977

Status: P & A

Depth: 4,840 ft

Tops:

3,484 ft Garrett Ranch Volc. (from PI)

Logs:

DIL	285-4,831 ft
BHCS	2,000-4,830 ft

CHADCO, INC.

Zuspann No. 24-1

API no.: 27-023-05235

Permit no.: 198

Location: center, NW¼SW¼ sec. 24, T9N, R56E

1,980 ft from south line, 660 ft from west line

Elevation: 4,766 ft

Completed: June 19, 1977

Status: Producer

Field: Trap Spring

Depth: 4,944 ft

Tops:

Surface	Quaternary valley fill
4,854 ft	Tertiary volc. (from PI)

Logs:

DIL	400-4,934 ft
BHCS/GR	2,800-4,930 ft
FIL	4,400-4,940 ft

Remarks: Oil zone at 4,885-4,944 ft (volc.?). DST at 4,885-4,950 ft had an oil show. This well initially produced 750 BOPD.

CHADCO, INC.

Zuspann No. 24-3

API no.: 27-023-05244

Permit no.: 208

Location: center, NE¼NW¼ sec. 24, T9N, R56E

660 ft from north line, 1,980 ft from west line

Elevation: 4,767 ft

Completed: Sept. 29, 1977

Status: Producer

Field: Trap Spring

Depth: 4,702 ft

Tops:

Surface	Quaternary valley fill
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Logs:

DIL	420-4,698 ft
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BHCS 2,700-4,688 ft
Samples:
 Cuttings 0-4,700 ft
Remarks: Oil zone at 4,599-4,702 ft (Garrett Ranch Volc.).
 DST at 4,595-4,700 ft had an oil show. This well initially
 produced 358 BOPD.

DIVERSIFIED OPERATING CORP.

D.O.C. Federal No. 5-18

API no.: 27-023-05386

Permit no.: 480

Location: SW 1/4 NW 1/4 sec. 18, T5N, R55E

2,041 ft from north line, 386 ft from west line

Elevation: 4,813 ft

Completed: Nov. 11, 1986 (?)

Status: P & A

Depth: 5,813 ft (?)

Tops:

1,531 ft volc.

5,667 ft dol.

Logs:

DM 5,014-5,724 ft

CNL/FDC 4,990-5,724 ft

BHCS 1,560-5,786 ft

DLL 1,560-5,786 ft

Samples:

Cuttings 1,570-5,818 ft

Remarks: Minor gas show in sampler on DST at 5,171-5,725
 ft. Oil show in dolomite. This well is sometimes called
 the Chuckwagon Federal No. 5-18.

FERGUSON & BOSWORTH AND ASSOCIATES (TEXACO, INC.)

Munson Ranch No. 11-23

API no.: 27-023-05267

Permit no.: 244

Location: center, NE 1/4 SW 1/4 sec. 11, T9N, R56E

1,980 ft from south line, 1,980 ft from west line

Elevation: 4,820 ft

Completed: Dec. 21, 1978

Status: P & A

Depth: 5,020 ft

Tops:

Surface Quaternary valley fill

2,140 ft Tertiary welded tuff

Logs:

Lithologic 400-5,020 ft

DI 385-5,018 ft

BHCS 341-5,016 ft

Samples:

Cuttings 400-5,020 ft (incomplete)

Remarks: Ownership transferred to Western Avenue Properties
 in 1983. Several oil shows were reported from 2,140-3,700
 ft. A gas show was reported in a DST at 2,563-2,677 ft.

GOSE, STEVE

Government No. 1

API no.: 27-023-05080

Permit no.: 81

Location: SE 1/4 NE 1/4 sec. 36, T9N, R57E

2,145 ft from north line, 825 ft from east line

Elevation: 4,836 ft

Completed: Apr. 3, 1967

Status: Redrilled

Depth: 6,048 ft

Tops (from PI):

Surface Quaternary valley fill

5,390 ft Eocene Sheep Pass(?)

5,407 ft unconformity "A"
 5,627 ft Paleozoic
Logs:
 Lithologic 545-6,045 ft
Remarks: See Western Oil Lands, Inc. Pennington No. 7 well
 for information on their redrill of this well.

GULF OIL CORP.

Anderson D. Federal No. 1

API no.: 27-023-05202

Permit no.: 113

Location: NW 1/4 SW 1/4 sec. 10, T7N, R56E

1,980 ft from south line, 660 ft from west line

Elevation: 4,708 ft

Completed: Dec. 23, 1967

Status: P & A

Depth: 7,120 ft

Tops:

Surface valley fill

4,766 ft Tertiary volc.

6,926 ft Paleozoic dol.

Logs:

Lithologic 0-5,400 ft

DIL 485-7,111 ft

FDL 485-7,111 ft

BHCS 0-7,109 ft

GULF OIL CORP.

Duck Unit No. 1

API no.: 27-023-05061

Permit no.: 106

Location: center, SE 1/4 SW 1/4 sec. 5, T6N, R56E

664 ft from south line, 1,990 ft from west line

Elevation: 4,716 ft

Completed: July 21, 1967

Status: P & A

Depth: 6,553 ft

Tops:

Surface Quaternary valley fill

5,016 ft Tertiary volc.

5,276 ft Mississippian Chainman Sh.

6,354 ft Mississippian Joana Ls.

Logs:

Lithologic 40-6,553 ft

DIL 504-6,556 ft

BHCS/GR 503-6,555 ft

ML/Cal 503-6,556 ft

FDC/GR 505-6,556 ft

Remarks: Source rock analysis on 5,270-5,530 ft and
 6,100-6,354 ft available at NBMG.

GULF OIL CORP.

Duck Unit No. 2

API no.: 27-023-05062

Permit no.: 108

Location: center, SW 1/4 SW 1/4 sec. 1, T6N, R55E

660 ft from south line, 660 ft from west line

Elevation: 4,729 ft

Completed: Aug. 8, 1967

Status: P & A

Depth: 4,130 ft

Tops:

Surface Quaternary valley fill

3,505 ft Paleozoic

Logs:

Lithologic 10-4,130 ft

BHCS/GR 510-4,128 ft

DIL 510-4,131 ft

NYE COUNTY (continued)

FDC/GR 512-4,135 ft
ML/Cal 513-4,136 ft

GULF OIL CORP.

Duck Unit No. 3

API no.: 27-023-05200

Permit no.: 111

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T6N, R57E

738 ft from south line, 572 ft from east line

Elevation: 4,777 ft

Completed: Nov. 17, 1967

Status: P & A

Depth: 3,138 ft

Tops:

Surface	Quaternary valley fill
2,730 ft	Paleozoic dol.
3,138 ft	igneous rock

Logs:

BHCS/GR	262-3,114 ft
FDL/GR	264-3,122 ft
ML/Cal	263-3,126 ft
DI	264-3,122 ft

GULF OIL CORP.

Gose "BZ" Federal "A" No. 1

API no.: 27-023-05209

Permit no.: 124

Location: center, SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T7N, R62E

1,980 ft from north line, 1,980 ft from west line

Elevation: 5,365 ft

Completed: Sept. 29, 1968

Status: P & A

Depth: 7,000 ft

Tops:

Surface	valley fill
5,580 ft	Pennsylvanian Ely Ls.
6,104 ft	Mississippian Diamond Peak Fm.
6,450 ft	Mississippian Chainman Sh.
6,590 ft	fault and unknown quartzite

Logs:

Lithologic	100-7,000 ft
DI/ES/LL	508-7,000 ft
BHCS/GR	0-7,089 ft
BHS-Density	2,100-7,000 ft
SNP	2,150-7,000 ft

GULF OIL CORP.

Gose "CD" Federal No. 1

API no.: 27-023-05211

Permit no.: 126

Location: center, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T10N, R62E

Elevation: 5,469 ft

Completed: Nov. 5, 1968

Status: P & A

Depth: 4,092 ft

Tops:

Surface	Quaternary valley fill
1,203 ft	Eocene Sheep Pass Fm.
1,695 ft	Pennsylvanian Ely Lm.
3,143 ft	Mississippian Chainman Sh.

Logs:

Lithologic	50-4,100 ft
IES	514-4,093 ft
BHCS/GR	514-4,093 ft
SNP	514-4,093 ft
FDL	514-4,093 ft

GULF OIL CORP.

Gose "DL" Federal No. 1

API no.: 27-023-05207

Permit no.: 119

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, T8N, R62E

83 ft from south line, 2,580 ft from west line

Elevation: 5,437 ft

Completed: July 22, 1968

Status: P & A

Depth: 7,067 ft

Tops:

3,964 ft	Tertiary volc.
6,543 ft	Pennsylvanian Ely Ls.

Logs:

IES	634-7,067 ft
BHCS/GR	30-7,067 ft
SNP/Cal	634-7,067 ft
FDC	634-7,067 ft

GULF OIL CORP.

Gose "EU" Federal No. 1

API no.: 27-023-05210

Permit no.: 125

Location: center, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T6N, R61E

660 ft from south line, 1,980 ft from east line

Elevation: 5,202 ft

Completed: Oct. 14, 1968

Status: P & A

Depth: 5,690 ft

Tops:

Surface	Quaternary valley fill
375 ft	Tertiary volc.
2,950 ft	Pennsylvanian Ely Ls.
4,070 ft	Mississippian Chainman Sh.

Logs:

Lithologic	80-5,690 ft
BHCS/GR	28-5,553 ft
SNP	488-5,553 ft
DI/LL	488-5,553 ft
FDL	488-5,553 ft

Remarks: Source rock analysis for 4,070-4,270 ft and 5,490-5,690 ft available at NBMG. 700 ppm Cl⁻ was reported in water from 3,908-4,017 ft in the Ely Ls.

GULF OIL CORP.

Gose "FQ" Federal No. 1

API no.: 27-023-05206

Permit no.: 118

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T6N, R62E

1,131 ft from south line, 1,726 ft from west line

Elevation: 5,283 ft

Completed: June 22, 1968

Status: P & A

Depth: 3,980 ft

Tops:

Surface	Quaternary valley fill
2,927 ft	Tertiary volc.
3,782 ft	Pennsylvanian Ely Ls.(?)

Logs:

Lithologic	50-3,980 ft
IES	623-3,980 ft
BHCS/GR	0-3,980 ft
FDL	632-3,980 ft
SNP	2,700-3,980 ft

GULF OIL CORP.

Nevada "DK" Federal No. 1

API no.: 27-023-05208

Permit no.: 122

Location: center, NE¼NW¼ sec. 17, T7N, R57E

660 ft from north line, 3,306 ft from east line

Elevation: 4,717 ft

Completed: Aug. 30, 1968

Status: P & A

Depth: 7,188 ft

Tops:

Surface	Quaternary valley fill
6,294 ft	Pennsylvanian Ely Ls.
6,990 ft	Mississippian Chainman Sh.

Logs:

Lithologic	300-7,190 ft
DIL	579-7,196 ft
BHCS/GR/Cal	779-7,196 ft
FDC	579-7,196 ft

GULF OIL CORP.

Nyala Unit No. 1

API no.: 27-023-05063

Permit no.: 105

Location: E½NW¼SE¼ sec. 29, T5N, R55E

1,971 ft from south line, 1,980 ft from east line

Elevation: 4,809 ft

Completed: June 11, 1967

Status: P & A

Depth: 7,780 ft

Logs:

BHCS/GR	474-7,771 ft
ML	3,100-7,773 ft
IES	474-7,773 ft
FDL	474-7,771 ft
Lithologic	90-7,780 ft

GULF OIL CORP.

Russell-Federal No. 1

API no.: 27-023-05213

Permit no.: 128

Location: center, SE¼NE¼ sec. 9, T9N, R61E

1,980 ft from north line, 660 ft from east line

Elevation: 5,324 ft

Completed: Nov. 12, 1968

Status: P & A

Depth: 6,150 ft

Tops:

Surface	valley fill
3,700 ft	volc.
5,528 ft	Paleozoic(?)

Logs:

Lithologic	200-6,150 ft
DIL	559-6,136 ft
BHCS/GR	559-6,137 ft
SNP	3,500-6,137 ft
FDL	3,500-6,137 ft

GULF OIL CORP.

Standard of California Federal No. 1

API no.: 27-023-05215

Permit no.: 130

Location: center, SE¼NE¼ sec. 33, T8N, R61E

1,980 ft from north line, 660 ft from east line

Elevation: 5,255 ft

Completed: Jan. 12, 1968

Status: P & A

Depth: 4,350 ft

Tops (from American Stratigraphic Co.):

Surface	Quaternary valley fill
1,465 ft	Tertiary volc.

3,215 ft

3,400 ft

3,728 ft

Logs:

Lithologic	100-4,250 ft
DIL	596-4,342 ft
BHCS/GR	0-4,336 ft
FDL	596-4,345 ft
SNP	1,280-4,346 ft

Remarks: Ely Ls. top also reported as 3,215 ft, and other tops reported for Mississippian rocks.

HARPER OIL CO.

Big Smoke No. 14-20

API no.: 27-023-05372

Permit no.: 453

Location: SE¼SW¼ sec. 20, T13N, R44E

660 ft from south line, 1,800 ft from west line

Elevation: 5,455 ft

Completed: Nov. 3, 1985

Status: P & A

Depth: 5,210 ft

Tops:

Surface	Quaternary valley fill
3,120 ft	Cambrian qtz. and sh. (to TD)
4,760 ft	fault

Logs:

Lithologic	0-5,210 ft
DM	764-5,208 ft
TS	613-5,205 ft
CNL/FDC	722-5,205 ft
DLL	722-5,207 ft
BHCS	722-5,196 ft

Samples:

Cuttings	500-5,210 ft
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HARPER OIL CO.

Grant Canyon No. 6

API no.: 27-023-05351

Permit no.: 401

Location: center, SW¼SE¼ sec. 17, T7N, R57E

660 ft from south line, 1,980 ft from east line

Elevation: 4,728 ft

Completed: Aug. 25, 1985

Status: P & A

Depth: 6,260 ft

Tops:

1,621 ft	Quaternary rhyolite flow
5,056 ft	Tertiary volc.
5,262 ft	Tertiary valley fill
5,611 ft	Pennsylvanian Ely Ls.
6,020 ft	Mississippian Chainman Sh.
6,170 ft	Devonian Simonson Dol.

Logs:

Lithologic	400-6,260 ft
FDC	400-6,262 ft
MLL	400-6,250 ft
BHCS	400-6,259 ft
DM	400-6,262 ft

Samples:

Cuttings	400-6,260 ft
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Remarks: Oil shows at 2,200-2,620 ft and 5,030-5,060 ft. Gas show at 6,220-6,260 ft.

HARPER OIL CO.

North Munson Ranch No. 14-6

API no.: 27-023-05378

Permit no.: 465

NYE COUNTY (continued)

Location: SE¼SW¼ sec. 6, T9N, R57E
660 ft from south line, 1,980 ft from west line
Elevation: 4,794 ft
Completed: Feb. 4, 1986
Status: P & A
Depth: 4,423 ft

Logs:

DL/MLL	310-4,423 ft
S	4,282-4,412 ft

Samples:

Cuttings	310-4,290 ft
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Remarks: Water zone at 4,293 ft flowed a 4-inch stream at approximately 150°F.

HARPER OIL CO.

Nyala No. 1

API no.: 27-023-05336

Permit no.: 381

Location: NW¼NE¼ sec. 20, T5N, R55E

660 ft from north line, 1,980 ft from east line

Elevation: 4,799 ft

Completed: July 6, 1984

Status: P & A

Depth: 4,311 ft

Tops:

Surface	Quaternary valley fill
3,243 ft	Tertiary volc.

Samples:

Cuttings	0-2,000 ft (incomplete)
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Remarks: This well P & A due to lost circulation.

HARPER OIL CO.

Nyala No. 1-R

API no.: 27-023-05336-R

Permit no.: 381

Location: NW¼NE¼ sec. 20, T5N, R55E

735 ft from north line, 1,980 ft from east line

Elevation: 4,818 ft

Completed: Aug. 28, 1984

Status: P & A

Depth: 5,676 ft

Tops:

2,993 ft	Tertiary volc.
4,340 ft	Paleozoic

Logs:

DIL/GR/Cal	714-4,251 ft
LSS	714-4,221 ft
DM	4,267-5,525 ft
BHCS	4,257-5,662 ft

Remarks: This is a redrill of Harper Oil Co. Nyala No. 1.
Rig was skidded 75 ft.

HARPER OIL CO.

Nyala No. 6-22-5-55

API no.: 27-023-05377

Permit no.: 464

Location: SE¼NW¼ sec. 22, T5N, R55E

1,600 ft from north line, 1,600 ft from west line

Elevation: 4,783 ft

Completed: Mar. 8, 1986

Status: P & A

Depth: 8,306 ft

Tops:

Surface	Quaternary valley fill
4,591 ft	Tertiary volc.
5,852 ft	Eocene Sheep Pass Fm.

Logs:

Cyberlook	7,300-8,293 ft
DM	2,800-8,307 ft
DLL	464-8,293 ft
LSS	464-8,293 ft
CNL/FDC	4,804-8,275 ft

Samples:

Cuttings	500-8,306 ft
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HUSKY OIL CO.

Big Meadow Unit No. 1

API no.: 27-023-05325

Permit no.: 369

Location: NE¼SW¼ sec. 33, T6N, R56E

1,980 ft from south line, 1,980 ft from west line

Elevation: 4,754 ft

Completed: Mar. 31, 1984

Status: P & A

Depth: 4,986 ft

Logs:

Lithologic	54-4,983 ft
DLL	392-4,965 ft
CNL/FDC	392-4,918 ft
S	392-4,914 ft
DM	392-4,913 ft
GR	400-4,900 ft
Waveforms	392-4,914 ft

Samples:

Cuttings	0-4,988 ft
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Remarks: Acquired by Marathon Oil Co. in May 1984. Core analysis available at NBMG for 4,314-4,344 ft with a fluid oil show at 4,331-4,334 ft.

HUSKY OIL CO.

Highway Unit No. 1

API no.: 27-023-05334

Permit no.: 379

Location: NW¼NE¼ sec. 12, T8N, R55E

660 ft from north line, 1,980 ft from east line

Elevation: 4,783 ft

Completed: May 18, 1984

Status: P & A

Depth: 3,040 ft

Tops:

Surface	Quaternary valley fill
798 ft	Tertiary volc. (to TD)

Logs:

Lithologic	58-3,040 ft
DLL	404-3,026 ft
CNL/FDC	404-3,038 ft
GR	404-3,005 ft
DM	404-3,041 ft
LSS	404-3,055 ft

Samples:

Cuttings	58-3,040 ft
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Remarks: Operator now Marathon Oil Co.

HUSKY OIL CO.

South Trap Spring No. 1

API no.: 27-023-05326

Permit no.: 368

Location: SE¼SW¼ sec. 9, T8N, R56E

660 ft from south line, 1,880 ft from west line

Elevation: 4,725 ft

Completed: May 9, 1984

Status: P & A

Depth: 4,319 ft

Logs:

Lithologic 58-4,319 ft
 DLL 463-4,302 ft
 CNL/FDC 463-4,314 ft
 BHCS 463-4,305 ft
 GR 463-4,282 ft
 DM 463-4,316 ft

Samples:

Cuttings 58-4,319 ft

Remarks: Core analysis for 3,034-3,046 ft available at NBMG.

Operator now Marathon Oil Co.

HUSKY OIL CO.**Willow Spring No. 1**

API no.: 27-023-05323

Permit no.: 365

Location: SE¼NE¼ sec. 1, T6N, R56E

2,050 ft from north line, 900 ft from east line

Elevation: 4,704 ft

Completed: Apr. 24, 1984

Status: P & A

Depth: 4,715 ft

Tops:

Surface Quaternary valley fill
 1,250 ft Tertiary volc.
 1,820 ft cgl.

Logs:

Lithologic 56-4,714 ft
 DLL 352-4,077 ft
 CNL/FDC 1,400-4,688 ft
 TS 300-4,000 ft
 GR 3,800-4,656 ft
 Waveform 352-4,081 ft
 S 352-4,081 ft

Samples:

Cuttings 60-4,714 ft

Remarks: Core analysis for 4,100-4,106 ft available at NBMG.

Operator now Marathon Oil Co.

JAYHAWK EXPLORATION, INC.**Koch No. 2-29**

API no.: 27-023-05353

Permit no.: 405

Location: SE¼NW¼ sec. 19, T11N, R57E

1,980 ft from north line, 1,980 ft from west line

Elevation: 4,994 ft

Completed: Oct. 31, 1984

Status: P & A

Depth: 6,886 ft

Tops:

3,000 ft Eocene Sheep Pass Fm.
 3,875 ft Mississippian Chainman Sh.
 4,000 ft Mississippian Joana Ls.

Logs:

Lithologic 590-6,886 ft
 DLL 550-6,815 ft
 BHCS 550-6,808 ft
 Density/CNL 550-6,812 ft
 DM 4,610-6,830 ft

Samples:

Cuttings 590-6,710 ft

KOCH EXPLORATION CO.**Tom Spring No. 2-C**

API no.: 27-023-05259

Permit no.: 229

Location: NE¼SW¼ sec. 3, T8N, R57E

1,980 ft from south line, 2,480 ft from west line

Elevation: 4,737 ft

Completed: Mar. 27, 1978

Status: P & A

Depth: 8,500 ft

Logs:

Lithologic 750-8,500 ft
 DIL 737-8,334 ft
 BHCS 737-8,332 ft

Samples:

Cuttings 970-8,500 ft

Remarks: Oil shows at 5,225-5,300 ft.

MAPCO OIL & GAS CO.**Grant Canyon No. 2**

API no.: 27-023-05330

Permit no.: 374

Location: SW¼NE¼ sec. 21, T7N, R57E

1,980 ft from north line, 1,980 ft from east line

Elevation: 4,740 ft

Completed: July 13, 1984

Status: P & A

Depth: 6,389 ft

Tops:

Surface Quaternary valley fill
 4,765 ft Mississippian Joana Ls.
 6,353 ft quartz monzonite

Logs:

Lithologic 393-6,889 ft
 GR/FDC/CNL 392-4,840 ft
 DIL 392-6,395 ft
 DM 500-6,147 ft
 BHCS 392-6,385 ft
 CBL 3,392-4,766 ft

Samples:

Cuttings 393-6,390 ft

Remarks: Original permit was under Northwest Exploration Co. Trace oil shows were reported.

MAPCO OIL & GAS CO.**Grant Canyon No. 3**

API no.: 27-023-05331

Permit no.: 375

Location: center, SW¼SW¼ sec. 16, T7N, R57E

660 ft from south line, 660 ft from west line

Elevation: 4,737 ft

Completed: Aug. 19, 1984

Status: Producer

Field: Grant Canyon

Depth: 4,302 ft

Tops:

Surface valley fill
 3,917 ft Devonian Simonson Dol.(?)

Logs:

Lithologic 400-4,040 ft
 DLL/ML 392-3,949 ft
 BHCS 392-3,957 ft
 DI 3,931-4,297 ft
 LSS 3,931-4,300 ft
 FIL 3,931-4,300 ft
 CNL/FDC 392-4,300 ft
 DM 3,931-4,300 ft

Samples:

Cuttings 390-4,040 ft

Remarks: Currently operated by Apache Corp., formerly by Harper Oil Co. Producing interval at 3,930-4,302 ft. Producing formation is Devonian. DST at 3,934-3,961 ft had an oil show. This well initially flowed 2,272 BOPD.

NYE COUNTY (continued)

MAPCO OIL & GAS CO.

Grant Canyon No. 4

API no.: 27-023-05332

Permit no.: 376

Location: S½NE¼NW¼ sec. 21, T7N, R57E

700 ft from north line, 1,980 ft from west line

Elevation: 4,737 ft

Completed: July 11, 1984

Status: Producer

Field: Grant Canyon

Depth: 4,220 ft

Tops:

Surface	Quaternary valley fill
4,020 ft	Devonian Guilmette Ls.

Logs:

Lithologic	413-4,224 ft
CNL/FDC	400-4,185 ft
BHCS	400-4,180 ft
DM	3,753-4,188 ft
DIL	400-4,183 ft
TS	22-4,171 ft
CBL	3,197-4,163 ft

Samples:

Cuttings	410-4,220 ft
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Remarks: Production at 4,030-4,130 ft, "Devonian undifferentiated", and at 4,144-4,170 ft, Simonson (?). Currently operated by Apache Corp., formerly by Harper Oil Co. DST at 4,034-4,087 ft had an oil show. This well initially flowed 1,986 BOPD.

MAPCO OIL & GAS CO.

Grant Canyon No. 5

API no.: 27-023-05350

Permit no.: 400

Location: E½NE¼ sec. 20, T7N, R57E

1,320 ft from north line, 660 ft from east line

Elevation: 4,718 ft

Completed: Aug. 21, 1984

Status: TA

Depth: 4,804 ft

Tops:

Surface	Quaternary valley fill
4,458 ft	Devonian Guilmette Ls.

Logs:

Lithologic	420-4,750 ft
DIL/GR/SP/Cal	395-4,792 ft
LSS/GR/Cal	395-4,761 ft
FDC/CNL/GR/Cal	395-4,798 ft
FIL/GR/Dev	395-4,798 ft
GR	4,452-4,778 ft

Samples:

Cuttings	395-4,748 ft
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Remarks: Oil shows at 2,110-2,259 ft, 3,130-3,310 ft, and 4,470-4,750 ft. Now being considered as a water-disposal well. Questionable oil and gas shows in the DST at 4,548-4,648 ft. Currently operated by Apache Corp.

MAPCO OIL & GAS CO.

Grant Canyon No. 8

API no.: 27-023-05358

Permit no.: 414

Location: center, SW¼SE¼ sec. 16, T7N, R57E

660 ft from south line, 1,980 ft from east line

Elevation: 4,750 ft

Completed: Dec. 21, 1984

Status: P & A

Depth: 7,044 ft

Tops:

5,040 ft	Tertiary weathered ignimbrite
5,238 ft	Eocene Sheep Pass Fm. (sh.)
5,562 ft	Eocene Sheep Pass Fm.
	(1st carbonate)
6,059 ft	Eocene Sheep Pass Fm.
	(2nd sh.)
6,244 ft	Eocene Sheep Pass Fm.
	(2nd carbonate)
6,604 ft	Mississippian(?) Joana Ls.

Logs:

Lithologic	480-7,044 ft
DIL/GR/SP	408-6,914 ft
CNL/GR/Cal	408-6,918 ft
FIL	4,900-6,920 ft

Samples:

Cuttings	414-7,040 ft
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Remarks: Oil and gas shows at 1,800-2,010 ft and 5,554-5,570 ft.

MAPCO OIL & GAS CO.

Thorn No. 1

API no.: 27-023-05338

Permit no.: 384

Location: SW¼NW¼ sec. 22, T7N, R57E

1,980 ft from north line, 600 ft from west line

Elevation: 4,809 ft

Completed: Sept. 26, 1984

Status: P & A

Depth: 5,584 ft

Tops:

Surface	Quaternary valley fill
5,347 ft	gabbro and quartz monzonite

Logs:

Lithologic	385-5,583 ft
DIL/GR	292-5,039 ft
BHCS/GR	293-5,004 ft

Samples:

Cuttings	385-5,584 ft
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Remarks: Oil shows at 290-385 ft and 5,160-5,220 ft.

MAPCO OIL & GAS CO.

Trap Spring No. 17-R

API no.: 27-023-05361

Permit no.: 422

Location: center, NW¼NE¼ sec. 23, T9N, R56E

660 ft from north line, 1,980 ft from east line

Elevation: 4,763 ft

Completed: Feb. 2, 1985

Field: Trap Spring

Status: Producer (TA)

Depth: 4,379 ft

Tops (measured from KB):

Surface	Quaternary valley fill
3,195 ft	Tertiary caprock
3,292 ft	Tertiary Windous Butte Fm.
3,380 ft	Tertiary tuff of
	Prichards Station
4,032 ft	Tertiary Stone Cabin Fm.

Logs:

Lithologic	420-4,379 ft
Cyberlook	3,370-4,325 ft
DIL	394-4,323 ft
CNL/FDC	394-4,325 ft
LSS	392-4,318 ft
DM	394-4,220 ft
GR	3,377-4,290 ft
FIL	394-4,220 ft

Samples:

Cuttings 392-4,379 ft

Remarks: Currently operated by Apache Corp., formerly by Harper Oil Co. DST's at 3,497-3,600 ft, 3,788-3,879 ft, 3,881-3,972 ft, 3,973-4,097 ft, 4,097-4,191 ft, 4,190-4,284 ft, and 4,285-4,379 ft, had oil shows.

MARATHON OIL CO.**Beaty Canyon No. 1**

API no.: 27-023-05347

Permit no.: 396

Location: NE¼SE¼ sec. 34, T8N, R57E

2,310 ft from south line, 1,100 ft from east line

Elevation: 4,768 ft

Completed: Sept. 28, 1984

Status: P & A

Depth: 5,198 ft

Logs:

DIL	3,000-3,454 ft
DLL	542-5,146 ft
FDL/DM	3,000-5,150 ft
CNL/FDL	2,970-5,162 ft
S	530-5,150 ft

Samples:

Cuttings 70-5,198 ft

Remarks: Originally Husky Oil Co.**MARATHON OIL CO.****Currant Creek Unit No. 1**

API no.: 27-023-05333

Permit no.: 378

Location: center, SE¼SW¼ sec. 26, T11N, R57E

660 ft from south line, 1,980 ft from west line

Elevation: 5,010 ft

Completed: Nov. 20, 1984

Status: P & A

Depth: 4,915 ft

Tops:

Surface	Quaternary valley fill
3,300 ft	Eocene Sheep Pass Fm.
3,844 ft	Mississippian Chainman Sh.

Logs:

DLL/GR	4,115-4,848 ft
BHCS	4,115-4,800 ft
FDL/CNL	4,115-4,852 ft
TS	10-4,192 ft
CBL	2,992-4,010 ft

Samples:

Cuttings 604,915 ft

Remarks: Originally Husky Oil Co.**MARATHON OIL CO.****Duckwater Creek No. 1**

API no.: 27-023-05335

Permit no.: 380

Location: center, NW¼SE¼ sec. 2, T10N, R56E

1,980 ft from south line, 1,980 ft from east line

Elevation: 5,036 ft

Completed: Oct. 18, 1984

Status: P & A

Depth: 6,000 ft

Tops:

668 ft	Tertiary volc.
4,370 ft	Mississippian Chainman Sh.
4,508 ft	Mississippian Joana Ls.
4,585 ft	Mississippian Pilot Sh.
4,682 ft	Devonian Guilmette Ls.

Logs:

Lithologic	75-6,000 ft
FIL	4,996-5,990 ft
GR	4,150-5,181 ft
CNL/FDC	4,150-5,990 ft
S	450-5,982 ft
DLL/ML	558-5,980 ft
DLL	558-4,646 ft

Samples:

Cuttings 58-6,000 ft

Remarks: Originally Husky Oil Co.**MARATHON OIL CO.****Kate Spring No. 1**

API no.: 27-023-05365

Permit no.: 436

Location: center, W¼SW¼ sec. 2, T8N, R57E

1,320 ft from south line, 660 ft from west line

Elevation: 4,742 ft

Completed: Jan. 7, 1986

Status: Shut in

Field: Kate Spring

Depth: 7,501 ft

Tops:

Surface	Quaternary valley fill
4,520 ft	Pennsylvanian Ely Ls.
6,520 ft	Mississippian Chainman Sh.
7,200 ft	Mississippian Joana Ls.
7,420 ft	Devonian Guilmette Ls.

Logs:

FIL	4,864-7,495 ft
DM	4,864-7,495 ft
DLL/ML	4,864-7,487 ft
BHCS	4,864-7,497 ft
CBL	3,490-4,814 ft
Directional	4,864-7,495 ft
CN/FDC	4,864-7,495 ft
GR	3,400-7,495 ft

Samples:

Cuttings 60-7,500 ft

Remarks: In 24-hour test, well flowed 345 BOPD, 1,371 BOPD. API gravity 10.5°. Producing interval 4,722-4,824 ft in Ely Ls. DST 4,482-4,529 ft had an oil show, DST 4,530-4,635 ft reported tar in sample chamber, DST 4,530-4,625 ft had an oil and gas show. Well plugged back to 4,850 ft.

MARATHON OIL CO.**Munson Ranch No. 13-1**

API no.: 27-023-05364

Permit no.: 435

Location: center, SE¼NW¼ sec. 13, T9N, R56E

1,980 ft from north line, 1,980 ft from west line

Elevation: 4,777 ft

Completed: Aug. 26, 1985

Status: Temporarily shut in

Field: Trap Spring

Depth: 4,199 ft (from KB)

Logs:

GR	25-3,643 ft
Computer processed	1,850-3,780 ft
Directional	3,400-3,806 ft
LSS	525-3,802 ft
DM	3,400-3,806 ft
DI	525-4000 ft

Samples:

Cuttings 70-4,199 ft

NYE COUNTY (continued)

Remarks: Oil zone at 4,100-4,199 ft. Initial production of 81 BOPD. Core report available for 4,118-4,124 ft (tuff of Pritchards Station).

MARATHON OIL CO.

Reynolds Springs No. 1

API no.: 27-023-05380

Permit no.: 468

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T9N, R56E

999 ft from south line, 800 ft from east line

Elevation: 4,742 ft

Completed: Mar. 20, 1986

Status: P & A

Depth: 4,500 ft

Tops:

Surface	Quaternary valley fill
2,310 ft	Tertiary volc.
2,518 ft	Tertiary tuff of Pritchards Station
3,460 ft	Tertiary volc.
3,553 ft	Tertiary Stone Cabin Fm.
3,868 ft	Paleozoic

Logs:

Lithologic	70-4,500 ft
DM	520-4,484 ft
Directional	520-4,484 ft
BHCS	520-4,481 ft
GR	520-4,487 ft
CN/FDC	520-4,487 ft
DLL/ML	520-4,474 ft

Samples:

Cuttings	70-4,500 ft
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Remarks: Oil and gas shows below 3,900 ft.

MARATHON OIL CO.

Shoreline No. 1

API no.: 27-023-05376

Permit no.: 463

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, T8N, R56E

430 ft from south line, 430 ft from west line

Elevation: 4,730 ft

Completed: Jan. 14, 1986

Status: P & A

Depth: 2,846 ft (from KB)

Tops:

Surface	Quaternary valley fill
950 ft	Tertiary volc.
2,050 ft	Mississippian Chainman Sh.
2,794 ft	Mississippian Joana Ls.

Logs:

DLL/ML	515-2,470 ft
GR	515-2,470 ft
CN/FDC	45-2,470 ft
TS	5-2,040 ft
Cyberlook	515-2,450 ft
DM	515-2,092 ft
BHCS	515-2,472 ft

Samples:

Cuttings	60-2,846 ft
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MARATHON OIL CO.

Silver Spring No. 1

API no.: 27-023-05384

Permit no.: 476

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T10N, R57E

607 ft from north line, 1,825 ft from west line

Elevation: 5,012 ft

Completed: June 15, 1986

Status: P & A

Depth: 5,929 ft

Tops:

Surface	Quaternary valley fill
4,243 ft	Eocene Sheep Pass Fm.
4,702 ft	Mississippian Chainman Sh.
5,701 ft	Devonian carbonate rocks

Logs:

TS	1,160-5,853 ft
Spectralog	4,200-5,864 ft
BHCS	1,170-5,851 ft
DLL/ML/GR	1,1160-5,853 ft
DM	1,170-5,851 ft
CN/FDL/GR	1,160-5,864

Samples:

Cuttings	80-5,910 ft
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MARATHON OIL CO.

Soda Springs Unit No. 1

API no.: 27-023-05324

Permit no.: 366

Location: center, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T8N, R57E

665 ft from south line, 1,984 ft from east line

Elevation: 4,736 ft

Completed: Sept. 20, 1984

Status: P & A

Depth: 8,092 ft

Tops:

6,646 ft	Eocene Sheep Pass Fm.
7,350 ft	Paleozoic
7,700 ft	Cambrian Prospect Mountain Qtz.

Logs:

S	937-8,070 ft
DLL	937-8,065 ft
DM/FIL	937-8,080 ft
FDC/CNL	3,000-8,077 ft
GR/CBL	6,300-7,900 ft
Static TS	7,000-7,900 ft
GR	3,000-8,047 ft

Samples:

Cuttings	100-8,090 ft
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Remarks: Permitted by Northwest Exploration Co., taken over by Husky Oil Co., and completed by Marathon Oil Co. Oil and gas shows in DST at 7,699-7,796 ft. During testing 10-12 bbl of oil was produced. The gassy oil recovered had a 45° API gravity, a low pour point, and low (0.03%) sulfur content (Poole and Claypool, 1984, p. 198; Hotline Energy Reports, May 19, 1984).

MERIDIAN OIL, INC.

Spencer Federal No. 32-29

API no.: 27-023-05367

Permit no.: 446

Location: SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T9N, R57E

1,650 ft from north line, 1,925 ft from east line

Elevation: 4,757 ft

Completed: Dec. 6, 1985

Status: P & A

Depth: 14,505 ft

Logs:

Lithologic	4,000-12,476 ft
CNL/FDC	9,000-14,518 ft
TS	0-12,282 ft
DM	7,500-12,400 ft
CNL/FDC	9,000-12,482 ft
GR	8,300-12,282 ft
LSS	1,604-14,510 ft
Cyberlook	10,500-12,475 ft

DLL 12,473-14,506 ft
 DI 1,604-13,934 ft
Samples:
 Cuttings 4,000-14,505 ft
Remarks: Formerly Milestone Petroleum, Inc. Oil show in Mississippian Chainman Sh. at 11,822-11,830 ft (Hot-line Energy Reports, May 26, 1986). Eighty-six bbl of test oil was sold before the well was plugged and abandoned.

NORTHWEST EXPLORATION CO.

Bacon Flat Federal No. 2

API no.: 27-023-05310
 Permit no.: 326
Location: center, NW¼NW¼ sec. 20, T7N, R57E
 700 ft from north line, 1,320 ft from west line
Elevation: 4,707 ft
Completed: Sept. 12, 1981
Status: Water-disposal well
Depth: 6,905 ft

Tops:

Surface valley fill

Logs:

DIL 631-6,820 ft
 BHCS/GR 631-6,833 ft
 GR/N 4,936-6,833 ft
 Cal 640-6,820 ft

Samples:

Cuttings 70-6,890 ft

Remarks: Water-disposal well for Bacon Flat No. 1.

NORTHWEST EXPLORATION CO.

Bacon Flat No. 1

API no.: 27-023-05305
 Permit no.: 316
Location: center, SW¼ sec. 17, T7N, R57E
 1,320 ft from south line, 1,320 ft from west line
Elevation: 4,726 ft
Completed: July 14, 1981
Status: Producer
Field: Bacon Flat
Depth: 5,450 ft

Tops:

Surface Quaternary valley fill
 5,315 ft Devonian Guilmette Ls.

Logs:

Lithologic 515-5,441 ft
 DI 519-5,451 ft
 BHCS 519-5,433 ft
 CNL/FDC 3,404-5,439 ft
 DM 612-5,450 ft
 Diplog 3,414-5,419 ft
 CBL 3,350-5,394 ft

Samples:

Cuttings 520-5,450 ft

Remarks: Name changed from Railroad Valley No. 8. Oil zone at 5,316-5,353 ft. Currently operated by Apache Corp., formerly by Harper Oil Co. Core, crude oil, and water analyses are available at NBMG. DST at 5,315-5,346 is an oil zone.

NORTHWEST EXPLORATION CO.

Bacon Flat No. 5

API no.: 27-023-05309
 Permit no.: 325
Location: center, NW¼SE¼ sec. 17, T7N, R57E
 1,980 ft from south line, 1,980 ft from east line
Elevation: 4,726 ft
Completed: Aug. 26, 1981

Status: P & A

Depth: 7,300 ft

Tops:

Surface	Quaternary valley fill
5,030 ft	Tertiary volc.
5,516 ft	Pennsylvanian Ely Ls.
5,799 ft	Mississippian Chainman Sh.
6,435 ft	Mississippian Joana Ls.
7,300 ft	Devonian Simonson Dol.

Logs:

DIL	616-7,300 ft
CNL/Density	3,900-7,300 ft
BHCS/GR	616-7,302 ft
Acoustic fracture	3,900-5,950 ft
DM	3,890-7,300 ft

Samples:

Cuttings 620-7,300 ft

Remarks: DST at 6,228-6,350 ft had an oil show. Other oil shows reported.

NORTHWEST EXPLORATION CO.

Blue Eagle No. 1

API no.: 27-023-05221
 Permit no.: 183
Location: S½SE¼NW¼ sec. 13, T9N, R57E
 2,440 ft from north line, 1,980 ft from west line
Elevation: 4,820 ft
Completed: Dec. 24, 1976
Status: P & A
Depth: 9,040 ft

Tops:

Surface	Quaternary valley fill
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Logs:

DIL	891-9,008 ft
BHCS	891-9,010 ft
CNL/FDC	891-9,012 ft

Samples:

Cuttings 890-9,040 ft

Remarks: Water analysis available on DST at NBMG. A DST at 8,507-8,565 ft had a gas show.

NORTHWEST EXPLORATION CO.

Currant No. 1

API no.: 27-023-05265
 Permit no.: 241
Location: SW¼SE¼SW¼ sec. 26, T10N, R57E
 658 ft from south line, 1,983 ft from west line
Elevation: 4,892 ft
Completed: Oct. 21, 1978
Status: P & A
Depth: 7,800 ft

Tops:

Surface	Quaternary valley fill
3,665 ft	Tertiary volc.
6,660 ft	Eocene Sheep Pass Fm.

Logs:

Lithologic	60-7,800 ft
FIL	2,200-7,790 ft
DIL	427-7,789 ft
GR	6,800-7,118 ft
BHCS	429-7,791 ft
CNL/FDC	428-7,793 ft

Samples:

Cuttings 430-7,800 ft

Remarks: Producing at 7,038-7,080 ft (Sheep Pass Fm.). Crude oil, water analysis, organic-maturation analysis and palynology report available at NBMG. DST at 7,000-7,069 ft had an oil and gas show. The initial production was 4

NYE COUNTY (continued)

BOPD (API gravity = 12.9°, pour point = 80°F). A total of 635 bbl was produced in 1979. The well was shut in until 1983 when 11 bbl was produced. The well never produced again and was P & A in 1986.

NORTHWEST EXPLORATION CO.

Grant Canyon No. 1

API no.: 27-023-05318

Permit no.: 353

Location: center, E½SW¼NW¼ sec. 21, T7N, R57E

1,980 ft from north line, 560 ft from west line

Elevation: 4,735 ft

Completed: Sept. 11, 1983

Status: Producer

Field: Grant Canyon

Depth: 4,487 ft

Tops:

Surface	Quaternary valley fill
4,342 ft	Devonian Guilmette Ls.

Logs:

Lithologic	0-4,486 ft
BHCS/GR	456-4,471 ft
CNL/FDC	4,200-4,480 ft
FIL	4,100-4,476 ft
DI	456-4,480 ft

Samples:

Cuttings	0-4,486 ft
Core	4,471-4,485 ft

Remarks: Discovery well of the Grant Canyon Field. Producing at 4,374-4,426 ft. Producing formation is Devonian Guilmette. Currently operated by Apache Corp., formerly by Harper Oil Co. Core analysis is available at NBMG. DST at 4,441-4,340 ft had an oil show. This well initially flowed 1,816 BOPD.

NORTHWEST EXPLORATION CO.

Little Meadows No. 1

API no.: 27-023-05263

Permit no.: 239

Location: center, NE¼NE¼ sec. 32, T6N, R56E

657 ft from north line, 660 ft from west line

Elevation: 4,745 ft

Completed: July 16, 1978

Status: P & A

Depth: 5,291 ft

Tops:

Surface	Quaternary valley fill
2,768 ft	Tertiary volc.
5,020 ft	Paleozoic

Logs:

Lithologic	443-5,291 ft
DIL	434-5,286 ft
BHCS/GR	435-5,281 ft
CNL/FDC	435-5,290 ft

Samples:

Cuttings	70-5,270 ft
Core	5,270-5,291 ft

Remarks: Water analysis available on DST's at NBMG. DST at 2,589-2,775 ft had a slight oil show.

NORTHWEST EXPLORATION CO.

Railroad Valley No. 1

API no.: 27-023-05290

Permit no.: 291

Location: SW¼SW¼ sec. 20, T10N, R57E

660 ft from south line, 660 ft from west line

Elevation: 4,847 ft

Completed: Dec. 21, 1980

Status: P & A

Depth: 3,643 ft

Tops:

Surface	Quaternary valley fill
2,580 ft	Tertiary volc.

Logs:

Lithologic	300-3,514 ft
DIL	300-3,526 ft
CNL	300-3,526 ft

Samples:

Cuttings	300-3,643 ft
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Remarks: Dead oil shows reported in valley fill at 600-690 ft and 870-1,470 ft.

NORTHWEST EXPLORATION CO.

Railroad Valley No. 2

API no.: 27-023-05298

Permit no.: 306

Location: center, SW¼ sec. 36, T10N, R57E

1,320 ft from south line, 1,320 ft from west line

Elevation: 4,921 ft

Completed: May 9, 1981

Status: P & A

Depth: 5,150 ft

Tops:

Surface	Quaternary valley fill
3,970 ft	Tertiary weathered volcanic flows and ash
4,650 ft	Tertiary Garrett Ranch Volc.

Logs:

Lithologic	390-5,150 ft
DIL	382-5,145 ft
BHCS	382-5,145 ft
FDC/CNL/GR	382-5,145 ft

Samples:

Cuttings	390-5,150 ft
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Remarks: Oil show at 4,200-4,210 ft.

NORTHWEST EXPLORATION CO.

Railroad Valley No. 3

API no.: 27-023-05297

Permit no.: 305

Location: center, NW¼ sec. 31, T9N, R56E

1,320 ft from north line, 1,320 ft from west line

Elevation: 4,868 ft

Completed: May 23, 1981

Status: P & A

Depth: 1,500 ft

Tops:

Surface	Quaternary valley fill
630 ft	Tertiary volc.

Logs:

Lithologic	129-1,505 ft
N/GR/FDC	130-1,502 ft
S	124-1,496 ft
DIL	124-1,502 ft

Samples:

Cuttings	130-1,530 ft
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NORTHWEST EXPLORATION CO.

Railroad Valley No. 4

API no.: 27-023-05296

Permit no.: 304

Location: SW¼ sec. 4, T8N, R56E

1,320 ft from south line, 1,320 ft from west line

Elevation: 4,735 ft

Completed: June 2, 1981

Status: P & A

Depth: 2,100 ft

Tops:

Surface	Quaternary valley fill
1,467 ft	Tertiary volc.

Logs:

Lithologic	225-2,100 ft
DIL/GR	218-2,078 ft
S	1,551-2,068 ft

Samples:

Cuttings	225-2,100 ft
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NORTHWEST EXPLORATION CO.

Railroad Valley No. 6

API no.: 27-023-05292

Permit no.: 294

Location: center, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T8N, R56E

660 ft from north line, 1,980 ft from west line

Elevation: 4,707 ft

Completed: Dec. 7, 1980

Status: P & A

Depth: 1,429 ft

Tops:

Surface	Quaternary valley fill
1,434 ft	Tertiary volc.

Logs:

Lithologic	415-1,930 ft
DIL/GR	415-1,927 ft
CN	380-1,927 ft
FDC	380-1,927 ft

Samples:

Cuttings	420-1,930 ft
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NORTHWEST EXPLORATION CO.

Railroad Valley No. 7

API no.: 27-023-05293

Permit no.: 295

Location: center, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T8N, R56E

660 ft from south line, 1,980 ft from west line

Elevation: 4,713 ft

Completed: Nov. 26, 1980

Status: P & A

Depth: 6,454 ft

Tops:

Surface	valley fill
5,850 ft	Tertiary volc.
6,222 ft	Paleozoic

Logs:

Lithologic	412-6,454 ft
DIL	412-6,367 ft
FDC	412-6,367 ft
CN	412-6,361 ft

Samples:

Cuttings	412-6,450 ft
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Remarks: Minor oil show at 5,060-5,100 ft.

NORTHWEST EXPLORATION CO.

Railroad Valley No. 9

API no.: 27-023-05306

Permit no.: 317

Location: center, SW $\frac{1}{4}$ sec. 36, T7N, R56E

1,320 ft from south line, 1,320 ft from west line

Elevation: 4,707 ft

Completed: July 27, 1981

Status: P & A

Depth: 5,351 ft

Tops:

Surface	valley fill
3,578 ft	Paleozoic

Logs:

Lithologic	633-5,351 ft
CNL/GR	631-5,346 ft
DIL	630-5,347 ft
BHCS	630-5,340 ft

Samples:

Cuttings	630-5,351 ft
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NORTHWEST EXPLORATION CO.

Railroad Valley No. 10

API no.: 27-023-05307

Permit no.: 318

Location: center, SW $\frac{1}{4}$ sec. 21, T6N, R56E

1,320 ft from south line, 1,320 ft from west line

Elevation: 4,737 ft

Completed: Aug. 13, 1981

Status: P & A

Depth: 5,753 ft

Tops:

Surface	Quaternary valley fill
4,964 ft	Tertiary volc.

Logs:

Lithologic	627-5,753 ft
CNL/FDC	626-5,750 ft
BHCS	626-5,718 ft
DIL	630-5,753 ft

Samples:

Cuttings	630-5,753 ft
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NORTHWEST EXPLORATION CO.

Trap Spring No. 1

API no.: 27-023-05220

Permit no.: 180

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T9N, R56E

800 ft from south line, 400 ft from east line

Elevation: 4,738 ft

Completed: Nov. 27, 1976

Status: Producer

Field: Trap Spring

Depth: 6,137 ft

Tops:

Surface	Quaternary valley fill
	(Horse Camp Fm.)
4,178 ft	Tertiary Garrett Ranch Volc.

Logs:

Lithologic	1,000-6,137 ft
DIL	1,008-5,982 ft
CNL/FDC	1,008-5,990 ft
BHCS	1,008-5,970 ft
FIL	4,000-5,600 ft

Samples:

Cuttings	1,800-6,100 ft
Core	4,375-4,444 ft

Remarks: Discovery well for the Trap Spring field. Currently operated by Apache Corp., formerly by Harper Oil Co. Producing at 4,249-4,337 ft. DST's at 4,220-4,374 ft, 4,374-4,444 ft, and 4,630-4,827 ft had oil shows. This well initially produced 410 BOPD.

NORTHWEST EXPLORATION CO.

Trap Spring No. 1-R

API no.: 27-023-05295

Permit no.: 303

Location: S $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T9N, R56E

1,940 ft from south line, 1,980 ft from east line

NYE COUNTY (continued)

Elevation: 4,744 ft
Completed: Feb. 10, 1981
Status: Producer
Field: Trap Spring
Depth: 4,200 ft

Tops:

Surface	Quaternary valley fill
3,753 ft	Tertiary volc.-welded tuff

Logs:

Lithologic	513-4,200 ft
DIL	514-4,196 ft
BHCS	514-4,167 ft

Samples:

Cuttings 500-4,200 ft

Remarks: Oil zones at 3,760-3,880 ft and 3,990-4,090 ft. Producing formation is Garrett Ranch Volc.(?). Currently operated by Apache Corp., formerly by Harper Oil Co. DST's at 3,774-3,865 ft and 3,864-3,915 ft had oil shows. This well initially produced 126 BOPD(?).

NORTHWEST EXPLORATION CO.

Trap Spring No. 2

API no.: 27-023-05223

Permit no.: 185

Location: center, SE¼SW¼ sec. 27, T9N, R56E
660 ft from south line, 1,980 ft from west line

Elevation: 4,745 ft

Completed: Feb. 9, 1977

Status: Producer

Field: Trap Spring

Depth: 3,993 ft

Tops:

Surface	Quaternary valley fill
3,160 ft	Tertiary Garrett Ranch Volc.

Logs:

CNL/FDC	406-3,996 ft
DIL	406-3,993 ft
BHCS	406-3,995 ft
DM	412-3,997 ft
FIL	2,900-3,997 ft

Samples:

Cuttings	190-3,997 ft
Core	3,312-3,331 ft

Remarks: Producing at 3,330-3,350 ft. Producing formation is volcanics (Garrett Ranch). Currently operated by Apache Corp., formerly by Harper Oil Co. This well initially produced 109 BOPD. Devonian Guilmette Ls. identified in bottom of well (Duey, 1979, p. 471).

NORTHWEST EXPLORATION CO.

Trap Spring No. 3

API no.: 27-023-05225

Permit no.: 188

Location: center, NW¼NE¼ sec. 34, T9N, R56E
660 ft from north line, 1,980 ft from east line

Elevation: 4,740 ft

Completed: Apr. 30, 1977

Status: Producer

Field: Trap Spring

Depth: 6,368 ft

Tops:

Surface	Quaternary valley fill
3,135 ft	Tertiary volc. (from PI)
5,400 ft	Paleozoic (from PI)

Logs:

Lithologic	100-6,368 ft
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DIL	1,000-6,329 ft
CNL/FDC	1,000-6,330 ft
DM	1,006-6,332 ft
BHCS	1,000-6,326 ft
FIL	1,006-6,332 ft

Samples:

Core	3,726-3,743 ft
Core	4,081-4,111 ft
Core	6,344-6,368 ft

Remarks: Producing at 3,269-4,083 ft. Producing formation is volcanics (Garrett Ranch). Currently operated by Apache Corp., formerly Harper Oil Co. DST at 3,659-3,744 ft, and 4,027-4,112 ft had oil shows. This well initially produced 2,488 BOPD.

NORTHWEST EXPLORATION CO.

Trap Spring No. 4

API no.: 27-023-05226

Permit no.: 189

Location: center, SE¼NE¼ sec. 27, T9N, R56E
1,980 ft from north line, 660 ft from east line

Elevation: 4,750 ft

Completed: Mar. 23, 1977

Status: Producer

Field: Trap Spring

Depth: 4,865 ft

Tops:

Surface	Quaternary valley fill
3,862 ft	Tertiary Garrett Ranch Volc.
4,786 ft	Paleozoic (from PI)

Logs:

DIL	408-4,838 ft
CNL/FDC	408-4,842 ft
BHCS	408-4,834 ft
Amplitude	2,900-4,834 ft
DM	408-4,842 ft
FIL	3,600-4,842 ft

Samples:

Cuttings 130-4,860 ft

Remarks: Producing at 4,013-4,526 ft. Producing formation is volcanics (Garrett Ranch ?). Currently operated by Apache Corp., formerly by Harper Oil Co. DST at 4,244-4,330 ft had an oil show. This well initially produced 96 BOPD.

NORTHWEST EXPLORATION CO.

Trap Spring No. 7

API no.: 27-023-05231

Permit no.: 194

Location: center, SE¼NE¼ sec. 8, T8N, R56E
1,980 ft from north line, 660 ft from east line

Elevation: 4,720 ft

Completed: May 31, 1977

Status: P & A

Depth: 3,418 ft

Tops (from PI):

Surface	Quaternary valley fill
1,280 ft	Tertiary Garrett Ranch Volc.
2,430 ft	Paleozoic

Logs:

Lithologic	400-3,418 ft
CNL/FDC	414-3,202 ft
FDC	1,600-3,202 ft
BHCS	414-3,202 ft
DIL	413-3,198 ft

Samples:

Cuttings 430-3,410 ft

NORTHWEST EXPLORATION CO.**Trap Spring No. 8**

API no.: 27-023-05233

Permit no.: 196

Location: center, SE 1/4 SW 1/4 sec. 23, T9N, R56E

660 ft from south line, 1,980 ft from west line

Elevation: 4,758 ft

Completed: Sept. 14, 1977

Status: Producer

Field: Trap Spring

Depth: 5,000 ft

Tops:

Surface	Quaternary valley fill
4,010 ft	Tertiary volc.

Logs:

GR	4,000-4,950 ft
DIL	414-500 ft
BHCS	415-5,006 ft

Samples:

Cuttings	420-5,000 ft
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Remarks: Producing at 4,408-4,575 ft. Producing formation is volcanics. Currently operated by Apache Corp., formerly by Harper Oil Co. DST's at 4,365-4,460 ft, 4,466-4,610 ft, 4,510-4,554 ft, and 4,834-5,000 ft had oil shows. This well initially produced 214 BOPD.

NORTHWEST EXPLORATION CO.**Trap Spring No. 9**

API no.: 27-023-05234

Permit no.: 197

Location: NW 1/4 NW 1/4 sec. 26, T9N, R56E

990 ft from north line, 990 ft from west line

Elevation: 4,752 ft

Completed: Sept. 5, 1978

Status: Producer

Field: Trap Spring

Depth: 6,335 ft

Tops:

Surface	Quaternary valley fill
4,120 ft	Tertiary volc.
5,310 ft	Oligocene Stone Cabin Fm.
6,098 ft	Paleozoic ls.

Logs:

Lithologic	427-6,335 ft
DIL	422-6,326 ft
FDC/GR	422-6,330 ft
BHCS	422-6,321 ft
FIL	3,500-6,328 ft

Samples:

Cuttings	430-6,335 ft
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Remarks: Producing at 4,120-4,757 ft. Producing formation is volcanics. Currently operated by Apache Corp., formerly by Harper Oil Co. DST's at 4,195-4,341 ft, 4,341-4,441 ft, 4,440-4,591 ft, 4,591-750 ft had oil shows. This well initially produced 1,234 BOPD.

NORTHWEST EXPLORATION CO.**Trap Spring No. 10**

API no.: 27-023-05242

Permit no.: 205

Location: center, SE 1/4 NW 1/4 sec. 34, T9N, R56E

1,980 ft from north line, 1,980 ft from west line

Elevation: 4,740 ft

Completed: June 19, 1977

Status: P & A

Depth: 5,781 ft

Tops (from PI):

Surface	Quaternary valley fill
5,318 ft	Paleozoic

Logs:

DIL	416-5,738 ft
CNL/FDC	416-5,732 ft
FIL	2,600-5,725 ft
BHCS	416-5,730 ft
DL	416-5,774 ft

Samples:

Cuttings	345-406 ft
Cuttings	2,900-5,300 ft

NORTHWEST EXPLORATION CO.**Trap Spring No. 13**

API no.: 27-023-05240

Permit no.: 203

Location: center, SE 1/4 SW 1/4 sec. 26, T9N, R56E

660 ft from south line, 1,980 ft from west line

Elevation: 4,742 ft

Completed: Aug. 25, 1978

Status: Water-disposal well

Depth: 7,956 ft

Tops:

Surface	Quaternary valley fill
4,960 ft	Tertiary volc.

Logs:

CNL/FDC	398-7,955 ft
DIL	398-7,952 ft
FIL	4,500-7,928 ft
CBL	4,200-7,552 ft
BHCS	398-7,922 ft

Samples:

Cuttings	4,600-7,956 ft (incomplete)
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Remarks: Water disposal into the Tertiary Garrett Ranch Volc. at 5,815-5,836 ft. Currently operated by Apache Corp., formerly by Harper Oil Co. DST's at 4,950-5,062 ft and 5,062-5,163 ft had oil shows.

NORTHWEST EXPLORATION CO.**Trap Spring No. 15**

API no.: 27-023-05250

Permit no.: 214

Location: SE 1/4 SW 1/4 NW 1/4 sec. 3, T8N, R56E

2,400 ft from north line, 1,000 ft from west line

Elevation: 4,735 ft

Completed: Nov. 3, 1977

Status: P & A

Depth: 6,142 ft

Tops:

3,400 ft	volc.
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Logs:

DIL	416-6,138 ft
BHCS	416-6,131 ft
FIL	3,900-6,141 ft

Samples:

Cuttings	420-6,142 ft
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NORTHWEST EXPLORATION CO.**Trap Spring No. 16**

API no.: 27-023-05261

Permit no.: 232

Location: SE 1/4 NW 1/4 SE 1/4 sec. 23, T9N, R56E

1,870 ft from south line, 1,500 ft from east line

Elevation: 4,759 ft

Completed: Sept. 29, 1978

Status: Producer

Field: Trap Spring

Depth: 5,509 ft

Tops:

Surface	valley fill
4,324 ft	tuff of Pritchards Station

NYE COUNTY (continued)**Logs:**

Lithologic	419-5,509 ft
DIL	422-5,502 ft
FDC/GR	428-5,507 ft
BHCS	427-5,506 ft
FIL	4,100-5,507 ft

Samples:

Cuttings	430-5,509 ft
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Remarks: Producing at 4,324-4,925 ft. Producing formation is volcanics. Crude oil and water analyses are available at NBMG. Currently operated by Apache Corp., formerly by Harper Oil Co. DST's at 4,473-4,672 ft, 4,672-4,747 ft, 4,747-4,900 ft, and 4,900-5,000 ft had oil shows. This well initially produced 847 BOPD.

NORTHWEST EXPLORATION CO.**Trap Spring No. 17****API no.:** 27-023-05246**Permit no.:** 210**Location:** center, SE¼NE¼ sec. 23, T9N, R56E

1,980 ft from north line, 660 ft from east line

Elevation: 4,766 ft**Completed:** Sept. 17, 1977**Status:** Producer**Field:** Trap Spring**Depth:** 5,000 ft**Tops:**

Surface	Quaternary valley fill
3,775 ft	Tertiary volc. (measured from KB)
4,790 ft	Tertiary Stone Cabin Fm.

Logs:

Lithologic	4,253-5,000 ft
DIL	420-4,218 ft
FIL	2,200-4,227 ft
BHCS	420-4,216 ft

Samples:

Cuttings	430-5,000 ft
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Remarks: Producing at 3,930-4,240 ft. Producing formation is volcanics. Current operator is Apache Corp., formerly by Harper Oil Co. DST at 3,915-4,240 ft had an oil show. This well initially produced 282 BOPD.

NORTHWEST EXPLORATION CO.**Trap Spring No. 19****API no.:** 27-023-05255**Permit no.:** 219**Location:** center, SE¼NW¼ sec. 23, T9N, R56E

1,980 ft from north line, 1,980 ft from west line

Elevation: 4,764 ft**Completed:** Dec. 2, 1977**Status:** Producer**Field:** Trap Spring**Depth:** 4,580 ft**Tops:**

2,890 ft	Tertiary volc.
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Logs:

DIL	422-4,573 ft
BHCS	423-4,566 ft
FIL	2,195-4,578 ft

Samples:

Cuttings	60-4,580 ft
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Remarks: Producing at 3,374-4,100 ft. Producing formation is volcanics. Current operator is Apache Corp., formerly by Harper Oil Co. DST's at 3,375-3,520 ft, 3,530-3,670 ft, 3,680-3,820 ft, 3,825-4,020 ft, 3,940-4,220 ft,

and 4,250-4,450 ft had oil shows. This well initially produced 135 BOPD.

NORTHWEST EXPLORATION CO.**Trap Spring No. 20-X****API no.:** 27-023-05262**Permit no.:** 233**Location:** S½SE¼SE¼ sec. 22, T9N, R56E

610 ft from south line, 660 ft from east line

Elevation: 4,763 ft**Completed:** Feb. 11, 1981**Status:** Water-disposal well**Depth:** 5,650 ft**Tops:**

Surface	Quaternary valley fill
3,905 ft	Tertiary tuff of
	Pritchards Station
4,440 ft	Tertiary Stone Cabin Fm.
4,705 ft	Paleozoic ls.

Logs:

DIL	433-5,533 ft
CNL/FDC	4,941-5,536 ft
CBL	4,775-5,640 ft
Lithologic	419-5,650 ft
BHCS	422-4,216 ft

Samples:

Cuttings	400-5,640 ft
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Remarks: Disposal at 5,140-5,160 ft. Oil shows at 3,930-4,010 ft and 5,450-5,570 ft. This well was a redrill of Trap Spring No. 20 which was located 50 ft to the north. Currently operated by Apache Corp., formerly by Harper Oil Co. Original oil production at 3,932-3,987 ft. Original producing formation was volcanics. Initial oil production was 10 BOPD. DST at 3,977-4,117 ft had an oil show.

NORTHWEST EXPLORATION CO.**Trap Spring No. 21****API no.:** 27-023-05264**Permit no.:** 240**Location:** center, SE¼NW¼ sec. 27, T9N, R56E

1,980 ft from north line, 1,980 ft from west line

Elevation: 4,753 ft**Completed:** Nov. 7, 1978**Status:** P & A**Depth:** 3,734 ft**Tops:**

Surface	Quaternary valley fill
3,010 ft	Tertiary tuff of
	Pritchards Station
3,380 ft	Paleozoic

Logs:

Lithologic	415-3,734 ft
DIL	413-3,728 ft
BHC	414-3,733 ft

Samples:

Cuttings	430-3,730 ft
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Remarks: Water analysis from DST's is available at NBMG.

NORTHWEST EXPLORATION CO.**Warm Springs No. 1****API no.:** 27-023-05260**Permit no.:** 231**Location:** center, SE¼SE¼ sec. 32, T8N, R56E

660 ft from south line, 660 ft from east line

Elevation: 4,708 ft**Completed:** June 25, 1978**Status:** P & A**Depth:** 4,528 ft

Tops:
 Surface Quaternary valley fill
 2,930 ft fault or slide block
 3,030 ft Devonian(?)

Logs:
 Lithologic 427-4,528 ft
 DIL 427-4,527 ft
 BHCS 427-4,524 ft
 CNL/FDC 427-4,534 ft

Samples:
 Cuttings 60-4,530 ft

Remarks: Bottom-hole temperature 161-166°F.

NORTHWEST EXPLORATION CO.

White River Valley No. 1

API no.: 27-023-05219
Permit no.: 179
Location: SW 1/4 NE 1/4 SW 1/4 sec. 2, T7N, R61E
 1,400 ft from south line, 1,450 ft from west line
Elevation: 5,225 ft
Completed: Sept. 10, 1976
Status: P & A
Depth: 10,473 ft

Tops:
 Surface Quaternary Horse Camp Fm.
 (valley fill)
 2,910 ft Oligocene Garrett Ranch Volc.
 5,260 ft Eocene Sheep Pass Fm.
 5,402 ft Pennsylvanian Ely Ls.
 7,900 ft Mississippian Chainman Sh.
 9,660 ft Mississippian Joana Ls.

Logs:
 DIL 858-10,456 ft
 DM 871-10,435 ft
 CNL/FDC 858-8,974 ft
 BHCS 858-10,442 ft
 Velocity 860-9,187 ft

Samples:
 Cuttings 860-10,473 ft

Remarks: Numerous oil and gas shows in Sheep Pass, Ely, Chainman, and Joana. Source-rock analysis of Chainman Sh. is available at NBMG. Oil and gas show in DST at 8,472-8,550 ft.

NORTHWEST EXPLORATION CO.

White River Valley No. 3

API no.: 27-023-05289
Permit no.: 290
Location: center, SW 1/4 SW 1/4 sec. 15, T10N, R61E
 660 ft from south line, 660 ft from west line
Elevation: 5,367 ft
Completed: Jan. 11, 1981
Status: P & A
Depth: 5,975 ft

Tops:
 Surface valley fill
 1,450 ft Tertiary volc.
 2,940 ft Permian ls.

Logs:
 Lithologic 425-5,974 ft
 CN/FDC 422-5,974 ft
 DI 422-5,974 ft

Samples:
 Cuttings 425-5,974 ft

Remarks: Dead oil identified at several intervals especially in valley fill. Hole temperature was 110°F at 5,661 ft.

NORTHWEST EXPLORATION CO.

White River Valley No. 4

API no.: 27-023-05308

Permit no.: 321
Location: SE 1/4 NE 1/4 NW 1/4 sec. 21, T9N, R61E
 700 ft from north line, 2,000 ft from west line
Elevation: 5,315 ft
Completed: July 28, 1981
Status: P & A
Depth: 2,325 ft

Logs:
 DI 372-2,326 ft
 BHCS 372-2,317 ft
 N/GR/FDC 372-2,323 ft

Samples:
 Cuttings 380-2,325 ft

Remarks: Organic-maturation and palynology report for 1,450-1,480 ft (Mississippian) available at NBMG.

NORTHWEST EXPLORATION CO.

White River Valley No. 5

API no.: 27-023-05299
Permit no.: 307
Location: center, NW 1/4 sec. 2, T8N, R61E
 1,320 ft from north line, 1,320 ft from west line
Elevation: 5,286 ft
Completed: Aug. 14, 1981
Status: P & A
Depth: 4,294 ft

Logs:
 DIL 428-4,294 ft
 BHCS 428-4,266 ft
 CN/FDL 620-4,297 ft
 Cyberlook 428-4,297 ft

Samples:
 Cuttings 425-4,290 ft

NORTHWEST EXPLORATION CO.

White River Valley No. 6

API no.: 27-023-05300
Permit no.: 308
Location: center, NW 1/4 sec. 10, T7N, R61E
 1,320 ft from north line, 1,320 ft from west line
Elevation: 5,236 ft
Completed: Sept. 29, 1981
Status: P & A
Depth: 6,300 ft

Tops:
 3,394 ft Eocene Sheep Pass Fm.
 4,210 ft Pennsylvanian Ely Ls.
 5,920 ft Mississippian Chainman Sh.

Logs:
 DIL 413-6,301 ft
 S/GR 413-6,304 ft
 N/GR/FDC 3,300-6,300 ft

Samples:
 Cuttings 407-6,300 ft

Remarks: Oil recovered from DST at 2,190-2,225 ft from a Tertiary tuff conglomerate (Poole and Claypool, 1984, table 15).

NORTHWEST EXPLORATION CO.

White River Valley No. 7

API no.: 27-023-05291
Permit no.: 293
Location: SW 1/4 SE 1/4 sec. 34, T7N, R61E
 660 ft from south line, 2,147 ft from east line
Elevation: 5,222 ft
Completed: Jan. 17, 1981
Status: P & A
Depth: 5,000 ft

NYE COUNTY (continued)

Tops:

Surface	Quaternary valley fill
2,455 ft	Tertiary volc.

Logs:

Lithologic	400-5,000 ft
DIL	432-4,274 ft

Samples:

Cuttings	400-5,000 ft
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OVERLAND PETROLEUM CO., INC.

Munson Ranch Federal No. 31-1

API no.: 27-023-05237

Permit no.: 200

Location: NW¼SE¼ sec. 31, T10N, R57E

1,983 ft from south line, 1,979 ft from east line

Elevation: 4,814 ft

Completed: Apr. 8, 1977

Status: P & A

Depth: 3,800 ft

Tops:

Surface	Quaternary valley fill
2,850 ft	Tertiary volcanic tuff

Logs:

Lithologic	510-3,800 ft
IES	460-3,800 ft

Remarks: Oil shows at several intervals below 2,800 ft.

PAN AMERICAN PETROLEUM CORP.

U.S.A. McDonald No. 1

API no.: 27-023-05212

Permit no.: 127

Location: center, SE¼SE¼ sec. 2, T11N, R57E

660 ft from south line, 660 ft from east line

Elevation: 5,748 ft

Completed: Oct. 21, 1968

Status: P & A

Depth: 2,943 ft

Logs:

IES	709-2,943 ft
BHCS	709-2,943 ft
DM	700-2,000 ft

PAN AMERICAN PETROLEUM CORP.

U.S.A. Pan American No. 1

API no.: 27-023-05204

Permit no.: 115

Location: NW¼NW¼NW¼ sec. 36, T3N, R54E

163 ft from north line, 239 ft from west line

Elevation: 6,414 ft

Completed: Apr. 5, 1968

Status: P & A

Depth: 8,355 ft

Tops:

Surface	Oligocene volcanic tuffs
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Logs:

IES	488-8,355 ft
BHCS/GR	488-8,346 ft
DM	490-8,349 ft

PENNINGTON OIL PRODUCERS

Pennington-Pan American No. 1

API no.: 27-023-05101

Permit no.: 101

Location: center, SE¼SE¼ sec. 4, T5N, R56E

660 ft from south line, 660 ft from east line

Elevation: 4,820 ft

Completed: Aug. 8, 1966

Status: P & A

Depth: 1,505 ft

Remarks: Heavy flow of water at 1,295-1,505 ft.

PENNINGTON, WM. N. AND WM. V.

Pennington-Pan American Big Wash No. 1

API no.: 27-023-05214

Permit no.: 129

Location: E½SW¼NW¼ sec. 36, T10N, R57E

3,300 ft from south line, 990 ft from west line

Elevation: 4,925 ft

Completed: Dec. 19, 1968

Status: P & A

Depth: 8,413 ft

Tops:

4,187 ft	Tertiary volc.
7,120 ft	Eocene Sheep Pass Fm.

Logs:

IES	452-8,412 ft
BHCS/GR	452-8,411 ft

Remarks: Penningtons designated Pan American as operator of Big Wash No. 1. Oil show in DST at 4,100-4,250 ft.

PHILLIPS PETROLEUM CO.

Dobbin Creek Federal A No. 1-6

API no.: 27-023-05355

Permit no.: 411

Location: SW¼NE¼ sec. 6, T13N, R48E

2,210 ft from north line, 1,975 ft from east line

Elevation: 7,021 ft

Completed: Mar. 26, 1985

Status: P & A

Depth: 4,679 ft

Tops:

Surface	Quaternary valley fill
1,010 ft	Miocene volc.
1,900 ft	Oligocene volc.
3,198 ft	Paleozoic
4,554 ft	Ordovician Eureka Qtz.

Logs:

Lithologic	200-4,679 ft
CN/FDC	2,288-4,666 ft
DI	100-2,296 ft
DLL	2,288-4,654 ft
BHCS	100-4,660 ft
TS	2,000-4,669 ft
GR	2,288-4,634 ft

Samples:

Cuttings	200-4,679 ft
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PIERCE, R. C.

Halstead No. 1

API no.: 27-023-05060

Permit no.: NY1

Location: NW¼NW¼ sec. 27, T12N, R56E

1,100 ft from north line, 1,100 ft from west line

Completed: 1954

Status: D & A

Depth: 313 ft

PIONEER OIL & GAS

Crow's Nest No. 23-11

API no.: 27-023-05383

Permit no.: 473

Location: SE¼NW¼NW¼ sec. 23, T6N, R56E

990 ft from north line, 990 ft from west line

Elevation: 4,745 ft
Completed: Apr. 17, 1986
Status: P & A
Depth: 5,586 ft
Tops:

Surface	Quaternary valley fill
3,420 ft	Tertiary volc.
3,802 ft	Eocene Sheep Pass Fm.

Logs:

Lithologic	442-5,540 ft
CNL/FDC	3,987-5,572 ft
BHCS	441-5,568 ft
DM	441-5,566 ft
DLL	441-5,560 ft

Remarks: Oil show at 4,720-5,120 ft.

PIONEER OIL & GAS

Willow Springs No. 1-31-33

API no.: 27-023-05387

Permit no.: 481

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T7N, R57E
2,335 ft from south line, 1,689 ft from east line

Elevation: 4,708 ft
Completed: Jan. 4, 1987

Status: P & A
Depth: 6,071 ft

Logs:

Lithologic	401-6,071 ft
DLL	4,233-6,054 ft
DLL/GR	360-4,230 ft
FDL/CN	4,233-6,065 ft
DM	4,233-6,065 ft
BHCS	400-6,063 ft

Samples:

Cuttings	401-6,071 ft
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Remarks: Well flowed water from the 150-170 ft interval. Oil show at 4,904-4,920 ft. Minor gas shows.

PYRAMID OIL CO.

U.S. Government No. NS 33-3

API no.: 27-023-05241

Permit no.: 204

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T9N, R56E
660 ft from north line, 665 ft from west line

Elevation: 4,755 ft
Completed: May 25, 1977

Status: P & A
Depth: 4,225 ft

Logs:

Fracture finder	450-4,222 ft
IES	454-4,221 ft
BHCS	450-4,222 ft

Samples:

Cuttings	450-4,220 ft
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SHELL OIL CO.

Coyote Unit No. 1

API no.: 27-023-05000

Permit no.: 22

Location: center, N $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 28, T7N, R55E

Elevation: 4,613 ft
Completed: Sept. 11, 1955

Status: P & A
Depth: 1,711 ft

Tops:

Surface	Quaternary valley fill
950 ft	Tertiary volcanic tuff
1,294 ft	Paleozoic ls. and dol.

Logs:

Lithologic	0-1,711 ft
IES	419-950 ft
GR	220-1,670 ft

Remarks: Artesian water flow estimated at 15 to 480 GPM from unknown intervals at 27-1,711 ft. Dead oil shows in shallow water well drilled nearby.

SHELL OIL CO.

Eagle Springs Unit No. 1-35

API no.: 27-023-05011

Permit no.: 4

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 35, T9N, R57E
1,300 ft from north line, 2,900 ft from east line

Elevation: 4,754 ft
Completed: May 23, 1954

Status: Water-disposal well

Field: Eagle Springs

Depth: 10,358 ft

Tops:

Surface	Quaternary valley fill
3,230 ft	Quaternary freshwater ls.
3,480 ft	Quaternary valley fill
6,450 ft	Oligocene (?) volc. (tuffs)
7,305 ft	Eocene Sheep Pass Fm.
7,785 ft	Paleozoic ls., ss., sh.
10,330 ft	quartz monzonite

Logs:

Lithologic	0-10,358 ft
IES	1,018-10,358 ft
GR/N	30-10,358 ft
ML	1,500-10,354 ft
DM	3,460-8,205 ft
Section gauge	1,016-10,356 ft

Samples:

Cuttings	140-10,345 ft
Core	4,710-9,960 ft (incomplete)

Remarks: This was the first producing well in Nevada. Oil zone at 6,450-6,730 ft. Crude oil, water, and source-rock analysis available at NBMG. DST's at 6,453-6,528 ft, 6,453-6,533 ft, 6,538-6,573 ft, and 6,638-6,724 ft had oil and gas shows. DST's at 6,583-6,638 ft, 6,728-6,813 ft, and 6,815-6,913 ft had only oil shows. Producer until 1970; converted to a water-disposal well in 1978. Oil shows in Paleozoic rocks also.

SHELL OIL CO.

Eagle Springs Unit No. 2

API no.: 27-023-05001

Permit no.: 10

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T7N, R56E
2,000 ft from south line, 720 ft from east line

Elevation: 4,709 ft
Completed: Dec. 7, 1954

Status: P & A

Depth: 10,183 ft

Tops:

Surface	Quaternary valley fill
6,510 ft	Tertiary volc.
10,155 ft	Paleozoic

Logs:

Lithologic	0-10,183 ft
IES	997-10,181 ft
DM	3,505-10,020 ft
GR/N	20-10,183 ft
TS	50-10,178 ft
ML	6,000-10,178 ft

Samples:

Cuttings	0-10,183 ft
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NYE COUNTY (continued)

Core Chips 5,415-10,183 ft

Remarks: Source-rock analysis (Chainman) available at NBMG. Oil shows reported in volcanics below 7,100 ft and oil and gas shows in shale at 9,493-10,130 ft. Strong hydrocarbon odor noted in Paleozoic limestone.

SHELL OIL CO.

Eagle Springs Unit No. 3

API no.: 27-023-05007

Permit no.: 11

Location: center, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T8N, R57E

670 ft from north line, 671 ft from east line

Elevation: 4,743 ft

Completed: July 31, 1954

Status: P & A

Depth: 6,038 ft

Tops:

Surface	Quaternary valley fill
5,194 ft	Devonian Simonson Dol.
5,820 ft	Devonian Sevy Dol.
5,927 ft	fault zone
5,933 ft	Cambrian

Logs:

Lithologic	0-6,038 ft
IES	752-6,035 ft
ML	850-6,035 ft
GR/N	0-6,035 ft
DM	2,000-6,035 ft
Directional	800-6,000 ft

Samples:

Cuttings	20-6,040 ft
Core	5,414-5,427 ft
Core	5,972-5,982 ft

Remarks: Oil shows were reported in Simonson Dol. above 5,500 ft and gas shows at several intervals.

SHELL OIL CO.

Eagle Springs Unit No. 4

API no.: 27-023-05006

Permit no.: 25

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T8N, R57E

660 ft from south line, 1,985 ft from west line

Elevation: 4,729 ft

Completed: Jan. 3, 1956

Status: P & A

Depth: 7,885 ft

Tops:

Surface	valley fill
6,632 ft	Mississippian Illipah Ss.-
	Chainman Sh.
7,294 ft	Devonian Simonson Dol.
7,460 ft	Devonian Sevy Dol.

Logs:

Lithologic	0-7,885 ft
DM	765-7,885 ft
IES	766-7,882 ft
ML	2,250-7,882 ft
GR/N	2,250-7,885 ft

Samples:

Core chips	6,571-7,182 ft (incomplete)
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Remarks: Minor gas shows were reported.

SHELL OIL CO.

Eagle Springs Unit No. 15-35

API no.: 27-023-05009

Permit no.: 21

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T9N, R57E

2,100 ft from south line, 78 ft from west line

Elevation: 4,744 ft

Completed: July 2, 1955

Status: Shut in

Field: Eagle Springs

Depth: 8,050 ft

Tops:

Surface	Quaternary valley fill
6,800(?) ft	Paleozoic ls.
	(Pennsylvanian Ely Ls.?)
7,579(?) ft	Mississippian Chainman Sh.

Logs:

Lithologic	0-8,050 ft
IES	780-7,996 ft
GR/N	6,000-8,000 ft
DM	6,560-7,968 ft
Section gauge	6,700-7,573 ft
ML	5,450-7,996 ft

Samples:

Core	6,862-8,000 ft (incomplete)
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Remarks: Oil zone at 6,998-7,360 ft. Sample and core analysis available at NBMG. DST at 7,158-7,360 ft had an oil and gas show; also shows reported in Chainman Sh.

SHELL OIL CO.

Eagle Springs Unit No. 17-34

API no.: 27-023-05004

Permit no.: 27

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T9N, R57E

1,310 ft from south line, 300 ft from west line

Elevation: 4,741 ft

Completed: Feb. 29, 1956

Status: Water well

Depth: 9,518 ft

Tops:

Surface	Quaternary valley fill
9,240 ft	Tertiary volc.

Logs:

Lithologic	0-9,518 ft
IES	770-9,516 ft
GR/N	30-1,000 ft
GR/N	9,000-9,513 ft
ML	5,200-5,300 ft
ML	6,100-6,600 ft
ML	8,875-9,512 ft

Samples:

Core chips	5,272-5,282 ft
Core chips	7,371-9,088 ft
Core chips	9,294-9,509 ft

Remarks: Oil shows were reported from 7,970-8,000 ft and 9,046-9,050 ft.

SHELL OIL CO.

Eagle Springs Unit No. 35-35

API no.: 27-023-05010

Permit no.: 17

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T9N, R57E

2,997 ft from north line, 1,802 ft from west line

Elevation: 4,748 ft

Completed: Mar. 6, 1955

Status: Producer

Field: Eagle Springs

Depth: 7,500 ft

Tops:

Surface	valley fill
3,013 ft	freshwater ls.
3,050 ft	valley fill
6,595 ft	Eocene Sheep Pass ls. and sh.

7,050 ft Paleozoic ls. and sh.
Logs:
 Lithologic 0-7,500 ft
 IES 812-7,499 ft
 GR/N 50-7,500 ft
 DM 870-7,290 ft
 Section gauge 810-7,034 ft
 ML 1,400-7,497 ft
 LL 6,500-7,033 ft
Samples:
 Cuttings 0-7,502 ft
 Core 1,500-7,502 ft (incomplete)
Remarks: Oil zone at 6,595-6,720 ft. Source-rock analysis and core record available at NBMG. DST's at 6,606-6,678 ft, 6,586-6,678 ft, and 6,765-6,821 ft had oil and gas shows. Oil shows also reported in Paleozoic rocks.

SHELL OIL CO.

Eagle Springs Unit No. 45-5

API no.: 27-023-05003

Permit no.: 63

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, T7N, R57E

2,013 ft from south line, 2,496 ft from west line

Elevation: 4,714 ft

Completed: Feb. 2, 1962

Status: P & A

Depth: 8,587 ft

Tops:

Surface	Quaternary valley fill
8,030 ft	Tertiary volc.
8,242 ft	Paleozoic

Logs:

Lithologic	0-8,135 ft
IES	816-8,586 ft
ML/Cal	1,700-8,586 ft
S	7,250-8,550 ft
DM	816-8,500 ft

Samples:

Cuttings	8,048-8,300 ft
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Remarks: Oil shows in Paleozoic limestone. This well was plugged back to 2,614 ft and was whipstocked to 8,135 ft.

SHELL OIL CO.

Eagle Springs Unit No. 54-4

API no.: 27-023-05002

Permit no.: 59

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T7N, R57E

2,470 ft from north line, 2,054 ft from east line

Elevation: 4,720 ft

Completed: Oct. 28, 1961

Status: P & A

Depth: 7,485 ft

Tops:

Surface	Quaternary valley fill
5,035 ft	ls., dol., sh.

Logs:

Lithologic	0-7,485 ft
GR/N	1,900-7,469 ft
IES	794-7,465 ft
S	794-7,447 ft
ML	3,950-7,467 ft

Samples:

Cuttings	6,100-6,745 ft
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Remarks: Oil shows reported in limestone at 6,735 ft.

SHELL OIL CO.

Eagle Springs Unit No. 58-26

API no.: 27-023-05008

Permit no.: 20

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T9N, R57E

441 ft from south line, 2,326 ft from west line

Elevation: 4,778 ft

Completed: May 26, 1965

Status: P & A

Depth: 8,300 ft

Tops:

Surface	Quaternary valley fill
800 ft	Tertiary undifferentiated
6,651 ft	Oligocene volc.
7,735 ft	Eocene Sheep Pass Fm.

Logs:

Lithologic	0-8,300 ft
DM	3,350-7,910 ft
IES	804-8,297 ft
GR/N	6,550-8,298 ft
ML	3,250-8,295 ft

Samples:

Cuttings	4-7,600 ft
Core	6,161-8,300 ft (incomplete)

Remarks: Source-rock analysis available at NBMG. Scattered oil shows at 6,696-8,300 ft.

SHELL OIL CO.

Eagle Springs Unit No. 62-35

API no.: 27-023-05012

Permit no.: 46

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T9N, R57E

1,334 ft from north line, 1,814 ft from east line

Elevation: 4,757 ft

Completed: Jan. 10, 1961

Status: Producer

Field: Eagle Springs

Depth: 7,755 ft

Tops:

Surface	Quaternary valley fill
6,250 ft	Oligocene volc.
6,710 ft	Eocene Sheep Pass Fm.
7,720 ft	Pennsylvanian Ely Ls.

Logs:

Driller	0-7,755 ft
IES	791-7,746 ft
GR/N	6,100-7,752 ft
S	791-7,748 ft
DM	6,100-7,748 ft
ML/Cal	4,800-7,751 ft

Remarks: Oil zone at 6,252-6,500 ft. Core record available at NBMG. DST at 6,225-6,291 ft had an oil show.

SHELL OIL CO.

Eagle Springs Unit No. 81-35

API no.: 27-023-05015

Permit no.: 48

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T9N, R57E

279 ft from north line, 597 ft from east line

Elevation: 4,765 ft

Completed: Mar. 3, 1961

Status: P & A

Depth: 7,805 ft

Tops:

Surface	Quaternary valley fill
6,452 ft	Tertiary volc.
7,060 ft	ss., sh., ls.

Logs:

Lithologic	0-7,805 ft
IES	772-7,355 ft
S/GR	772-7,801 ft
DM	1,000-7,353 ft

NYE COUNTY (continued)

Remarks: Oil shows were reported from DST's in the volcanics and from 7,410-7,450 ft in sedimentary rocks.

SHELL OIL CO.**Lockes Unit No. 1**

API no.: 27-023-05005

Permit no.: 18

Location: center, NW¼SE¼ sec. 3, T8N, R56E
1,980 ft from south line, 1,980 ft from east line

Elevation: 4,732 ft

Completed: Feb. 19, 1955

Status: P & A

Depth: 7,324 ft

Tops:

Surface	Quaternary valley fill
4,405 ft	Tertiary volc. (mostly tuffs)

Logs:

Lithologic	0-7,325 ft
IES	714-7,324 ft
ML	3,500-7,323 ft
GR/N	80-7,324 ft
Cal	713-4,697 ft

Samples:

Cuttings	42-7,325 ft
Core	2,674-6,747 ft

Remarks: Minor gas shows were logged at 3,234-3,250 ft, 4,482-4,548 ft, and 4,778-4,866 ft. A minor oil show was logged in volcanics at 4,506-4,514 ft. Dolly (1979) reports an excellent live oil show in core from near the top of the rock.

SHELL OIL CO.**U.S.A. No. 34-25**

API no.: 27-023-05321

Permit no.: 363

Location: NE¼SW¼SE¼ sec. 25, T8N, R55E
1,100 ft from south line, 1,694 ft from east line

Elevation: 4,726 ft

Completed: Mar. 6, 1984

Status: P & A

Depth: 2,677 ft

Tops:

Surface	Quaternary valley fill
940 ft	Tertiary Garrett Volc.
1,584 ft	Mississippian Chainman Sh.
1,800 ft	Mississippian Joana Ls.
2,110 ft	Mississippian Pilot Sh.
2,250 ft	Devonian Guilmette Ls.

Logs:

Lithologic	68-2,678 ft
DM	924-2,638 ft
Directional survey	906-2,638 ft
LSS	906-2,635 ft
GR	906-2,610 ft
CN/FDC	906-2,642 ft

Samples:

Cuttings	1,883-2,670 ft
Core	1,883-1,913 ft

SHELL WESTERN E & P, INC.**U.S.A. No. 41-24**

API no.: 27-023-05320

Permit no.: 362

Location: NW¼NE¼NE¼ sec. 24, T7N, R55E
200 ft from north line, 950 ft from east line
Elevation: 4,708 ft

Completed: Apr. 2, 1984

Status: P & A

Depth: 3,235 ft

Tops:

Surface	Quaternary valley fill
1,920 ft	Tertiary volc.
2,940 ft	Devonian Guilmette Ls.

Logs:

Lithologic	66-3,236 ft
GR	649-2,885 ft
LSS	649-2,910 ft
CN/FDC	649-2,917 ft
CBL	2,000-2,918 ft
DI	649-2,914 ft
DLL/ML	649-2,914 ft
TS	2,550-3,178 ft

Samples:

Cuttings	60-3,130 ft
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SUPRON ENERGY CORP.**Lease F-2-4-55 No. 1**

API no.: 27-023-05283

Permit no.: 278

Location: center, NE¼NE¼ sec. 2, T4N, R55E
660 ft from north line, 660 ft from east line

Elevation: 4,875 ft

Completed: Nov. 20, 1980

Status: P & A

Depth: 5,950 ft

Tops (from PI):

Surface	Quaternary valley fill
4,827 ft	Tertiary volc.
5,746 ft	Paleozoic

Logs:

BHCS	530-5,941 ft
DI	630-5,948 ft
CN/FDC	630-5,948 ft

Samples:

Cuttings	0-5,950 ft
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SUPRON ENERGY CORP.**Lease F-18-5-55 No. 1**

API no.: 27-023-05284

Permit no.: 279

Location: SW¼NW¼ sec. 18, T5N, R55E
1,950 ft from north line, 850 ft from west line

Elevation: 4,818 ft

Completed: Aug. 16, 1980

Status: P & A

Depth: 6,630 ft

Tops:

Surface	Quaternary valley fill
1,651 ft	Tertiary volc.
5,466 ft	Paleozoic Samples:
Cuttings	170-6,630 ft

SUPRON ENERGY CORP.**Lease F-27-6-55 No. 1**

API no.: 27-023-05281

Permit no.: 276

Location: center, NE¼SW¼ sec. 27, T6N, R55E
1,980 ft from south line, 1,980 ft from west line

Elevation: 4,750 ft

Completed: June 26, 1980

Status: P & A

Depth: 6,295 ft

Tops:

Surface	Quaternary valley fill
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4,396 ft	Tertiary volc.
6,135 ft	Paleozoic
Logs:	
Lithologic	0-6,295 ft
DI	590-6,185 ft
BHCS	568-5,825 ft
Samples:	
Cuttings	0-6,270 ft

SUPRON ENERGY CORP.

Lease F-28-8-61 No. 1

API no.: 27-023-05287

Permit no.: 275

Location: center, SW¼SE¼ sec. 28, T8N, R61E

660 ft from south line, 1,980 ft from east line

Elevation: 5,255 ft

Completed: June 1, 1980

Status: P & A

Depth: 4,240 ft

Tops:

Surface	Quaternary valley fill
1,173 ft	Tertiary volc.
1,380 ft	Permian
2,870 ft	Mississippian Scotty Wash
	Qtz.-fault
3,720 ft	Mississippian Chainman Sh.

Logs:

Lithologic	0-4,200 ft
BHCS	602-4,214 ft
DI	602-4,218 ft

Samples:

Cuttings	35-4,240 ft
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Remarks: There were several dead oil shows. Oil and gas shows in DST's at 3,350-3,458 ft and 3,545-3,600 ft.

SUPRON ENERGY CORP.

Lease F-30-4-55 No. 1

API no.: 27-023-05285

Permit no.: 280

Location: center, NW¼NE¼ sec. 30, T4N, R55E

660 ft from north line, 1,980 ft from east line

Elevation: 5,101 ft

Completed: Oct. 30, 1980

Status: P & A (?)

Depth: 8,347 ft

Samples:

Cuttings	30-8,347 ft
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Remarks: Notice of completion was not received by NBMG.

SUTHERLAND, A. PAUL

Sutherland No. 1

API no.: 27-023-05217

Permit no.: 150

Location: NE¼SW¼ sec. 7, T8N, R57E

1,995 ft from south line, 3,318 ft from east line

Elevation: 4,726 ft

Completed: Sept. 6, 1971

Status: P & A

Depth: 13,832 ft

Tops:

12,375 ft	Tertiary qtz.
12,455 ft	Tertiary volc. (TD)

Logs:

Lithologic	0-13,830 ft
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Remarks: Numerous oil shows were reported between 6,670 ft and 11,620 ft.

TENNECO OIL CO.

GB Core Hole No. 10-A

API no.: 27-023-05216

Permit no.: 136

Location: NE¼SE¼NE¼ sec. 5, T8N, R60E

1,800 ft from north line, 40 ft from east line

Elevation: 6,180 ft

Completed: Aug. 11, 1970

Status: P & A

Depth: 800 ft

Tops:

Surface	Mississippian Diamond Peak Fm.(TD)
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Logs:

Lithologic	0-800 ft
Resistivity	662-790 ft
GR	0-790 ft

Samples:

Cuttings	0-500 ft
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TENNECO OIL CO.

U.S.A.-Shingle Pass No. 1

API no.: 27-023-05218

Permit no.: 151

Location: center, SE¼NW¼ sec. 4, T8N, R61E

1,958 ft from north line, 1,968 ft from west line

Elevation: 5,301 ft

Completed: July 28, 1971

Status: P & A

Depth: 6,333 ft

Tops:

Surface	Quaternary valley fill
446 ft	Tertiary volc.
2,665 ft	Mississippian Chainman Sh.
3,395 ft	Mississippian Joana Ls.
3,800 ft	Mississippian-Devonian Pilot Sh.
3,875 ft	Devonian Guilmette Fm.

Logs:

Lithologic	300-6,333 ft
DIL	465-6,332 ft
DM	470-6,334 ft
GR/FDC	465-6,336 ft
N	2,336-6,336 ft
BHCS/GR	465-6,334 ft

Samples:

Cuttings	30-6,331 ft
Core	6,327-6,332 ft

TEXACO, INC.

Duckwater Creek No. 8-12

API no.: 27-023-05279

Permit no.: 261

Location: center, SW¼NW¼ sec. 8, T9N, R57E

1,980 ft from north line, 660 ft from west line

Elevation: 4,790 ft

Completed: July 16, 1979

Status: P & A

Depth: 6,910 ft

Tops:

Surface	Quaternary valley fill
6,330 ft	Oligocene volc.

Logs:

Lithologic	0-6,910 ft
DI	405-6,887 ft

Samples:

Cuttings	405-6,900 ft
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NYE COUNTY (continued)

Remarks: Original permit changed to Paul Bogdanich as operator on June 12, 1979. Oil show at 4,750 ft; gas shows at 4,990, 6,580, and 6,720 ft. Total depth for drillers was 6,910 ft. Total recorded depth on the DI log was 6,893 ft.

TEXACO, INC.

(FERGUSON & BOSWORTH AND ASSOCIATES)

Munson Ranch Federal No. 14-1

API no.: 27-023-05236

Permit no.: 199

Location: center, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T9N, R56E

660 ft from south line, 1,980 ft from east line

Elevation: 4,769 ft

Completed: May 17, 1979

Status: P & A

Depth: 5,716 ft

Logs:

DIL	464-4,186 ft
DI	4,010-5,713 ft
BHCS	464-5,706 ft
DM	3,000-3,741 ft
FIL	3,000-4,190 ft
CBL	3,250-4,726 ft
MLL	4,010-5,704 ft

Samples:

Cuttings 470-4,200 ft (incomplete)

Remarks: Producing intervals, 3,614-4,733 ft in Tertiary volcanics, produced 5 BOPD and 32 BWPD. This well was shut in and then P & A.

TEXACO, INC.

Munson Ranch No. 11-23X

API no.: 27-023-05317

Permit no.: 346

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T9N, R56E

1,910 ft from south line, 1,933 ft from west line

Elevation: 4,795 ft

Completed: Oct. 18, 1982

Status: TA

Depth: 2,635 ft

Tops:

Surface	Quaternary valley fill
2,094 ft	Tertiary welded tuff

Logs:

Lithologic	500-2,540 ft
DIL	428-2,531 ft

Samples:

Cuttings 500-2,635 ft

Remarks: Now Western Avenue Properties. Oil shows in welded tuff below 2,094 ft. First 24 hours of production produced 408 barrels of water from welded tuff at 2,516-2,635 ft.

TEXACO, INC.

Munson Ranch No. 13-24

API no.: 27-023-05254

Permit no.: 218

Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T9N, R56E

760 ft from south line, 1,880 ft from west line

Elevation: 4,770 ft

Completed: Aug. 12, 1979

Status: Producer

Field: Trap Spring

Depth: 4,629 ft

Tops:

Surface	Quaternary valley fill
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3,778 ft

4,055 ft

4,433 ft

Tertiary detrital tuff

Tertiary volcanic ash tuff

Oligocene tuff of Pritchards Station

Logs:

Lithologic	2,000-4,629 ft
DI	511-4,627 ft
BHCS	512-4,624 ft

Samples:

Cuttings 505-4,620 ft

Remarks: Also named the Paul Bogdanich Munson Ranch 13-24-1 or the No. 13-1. Producing at 4,455-4,502 ft. Producing formation is Tertiary tuff of Pritchards Station. Currently operated by Western Avenue Properties. DST's at 4,455-4,629 ft and 4,550-4,629 ft had oil shows. This well initially produced 36 BOPD.

TEXACO, INC.

Munson Ranch No. 13-33

API no.: 27-023-05247

Permit no.: 211

Location: center, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T9N, R56E

Elevation: 4,774 ft

Completed: Nov. 7, 1978

Status: Producer

Field: Trap Spring

Depth: 4,655 ft

Tops:

Surface	Quaternary valley fill
4,272 ft	Tertiary welded tuff

Logs:

Lithologic	3,500-4,450 ft
DIL	404-4,649 ft
BHCS	405-4,652 ft
Dir	4,300-4,655 ft
FIL	3,500-4,652 ft

Samples:

Cuttings 400-4,655 ft (incomplete)

Remarks: Oil zone at 4,300-4,450 ft. Producing formation is volcanic tuff. Currently operated by Western Avenue Properties. DST's at 4,300-4,350 ft and 4,350-4,450 ft had oil shows. This well initially produced 60 BOPD.

TEXACO, INC.

Munson Ranch No. 13-42

API no.: 27-023-05256

Permit no.: 222

Location: center, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T9N, R56E

1,980 ft from north line, 660 ft from east line

Elevation: 4,776 ft

Completed: Nov. 31, 1978

Status: Producer

Field: Trap Spring

Depth: 5,700 ft

Tops:

Surface	Quaternary valley fill
4,552 ft	Tertiary tuff (to TD)

Logs:

FIL	3,500-5,703 ft
DIL	420-5,697 ft
BHCS	420-5,703 ft
DM	3,500-5,703 ft
Lithologic	4,000-5,700 ft
Dir	3,500-5,703 ft

Samples:

Cuttings 400-5,700 ft

Remarks: Name changed from well No. 13-3. Producing at 4,558-4,593 ft. Producing formation is tuff. Currently operated by Western Avenue Properties. DST's at 4,500-4,584 ft and 4,584-4,684 ft had oil shows. This well initially produced 113 BOPD.

TEXACO, INC.**Munson Ranch No. 14-23**

API no.: 27-023-05303

Permit no.: 313

Location: NE¼SW¼ sec. 14, T9N, R56E

2,009 ft from south line, 3,252 ft from east line

Elevation: 4,750 ft

Completed: Aug. 1, 1981

Status: Producer

Field: Trap Spring

Depth: 4,100 ft

Tops:

Surface	Quaternary valley fill
3,050 ft	Tertiary volc.

Logs:

Lithologic	441-4,100 ft
DIL	440-4,094 ft

Samples:

Cuttings	440-4,100 ft
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Remarks: Producing at 3,701-4,086 ft. Producing formation is Oligocene volcanics. Currently operated by Western Avenue Properties. This well initially produced 110 BOPD.

TEXACO, INC.**Munson Ranch No. 14-34**

API no.: 27-023-05288

Permit no.: 287

Location: center, S½SW¼SE¼ sec. 14, T9N, R56E

640 ft from south line, 1,980 ft from east line

Elevation: 4,770 ft

Completed: Nov. 14, 1980

Status: Producer

Field: Trap Spring

Depth: 4,037 ft

Logs:

DI	461-4,012 ft
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Samples:

Cuttings	2,900-4,025 ft (incomplete)
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Remarks: Oil zone at 3,560-4,025 ft. Currently operated by Western Avenue Properties. Producing formation is volcanics(?). This well initially produced 125 BOPD.

TEXACO, INC.**Munson Ranch No. 24-1**

API no.: 27-023-05245

Permit no.: 209

Location: center, SE¼NW¼ sec. 24, T9N, R56E

1,980 ft from north line, 1,980 ft from west line

Elevation: 4,760 ft

Completed: Nov. 16, 1977

Status: Water-disposal well

Depth: 5,600 ft

Logs:

Lithologic	400-4,935 ft
DI	394-5,606 ft
Cal	400-4,930 ft
BHCS	400-4,933 ft
FIL	4,239-5,580 ft
GR/N	4,500-5,322 ft

Samples:

Cuttings	610-5,600 ft (incomplete)
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Remarks: Currently operated by Western Avenues Properties. DST at 5,075-5,200 ft had an oil show.

TEXACO, INC.**Munson Ranch No. 24-3**

API no.: 27-023-05253

Permit no.: 217

Location: center, NW¼NW¼ sec. 24, T9N, R56E

660 ft from north line, 660 ft from west line

Elevation: 4,767 ft

Completed: Nov. 28, 1977

Status: Water-disposal well

Depth: 5,012 ft

Tops:

Surface	Quaternary valley fill
4,600 ft	Oligocene Upper mbr.
	Stone Cabin Fm.

Logs:

DI	385-5,015 ft
GR/N	4,100-4,740 ft

Samples:

Cuttings	2,400-5,012 ft (incomplete)
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Remarks: Water injected into a tuff at 4,736-4,648 ft and 4,340-4,385 ft. Currently operated by Western Avenue Properties.

TEXACO, INC.**Munson Ranch No. 24-4**

API no.: 27-023-05249

Permit no.: 213

Location: S½SE¼NW¼ sec. 24, T9N, R56E

2,035 ft from north line, 1,975 ft from west line

Elevation: 4,766 ft

Completed: Sept. 20, 1977

Status: Water well

Depth: 1,550 ft

Remarks: Water production at 1,218-1,397 ft. Currently operated by Western Avenue Properties. Tested production to 92 GPM. Faint traces of oil reported during water production.

TEXOTA OIL CO.**Eagle Springs Unit No. 1-34**

API no.: 27-023-05199

Permit no.: 107

Location: SE¼SE¼NE¼ sec. 34, T9N, R57E

2,020 ft from north line, 330 ft from east line

Elevation: 4,747 ft

Completed: July 23, 1967

Status: Producer

Field: Eagle Springs

Depth: 8,694 ft

Tops:

Surface	valley fill
7,145 ft	Oligocene volc.
7,584 ft	Eocene Sheep Pass Fm.
8,582 ft	Paleozoic

Logs:

Driller	0-8,694 ft
IES	636-8,680 ft
ML/Cal	6,450-8,640 ft

Remarks: Oil zones at 7,146-7,496 ft, 7,584-7,781 ft, 8,290-8,350 ft, 8,446-8,474 ft, and 8,561-8,581 ft. Oil production from 7,148-7,256 ft. DST at 7,163-7,180 ft had oil and gas shows.

TEXOTA OIL CO.**Eagle Springs Unit No. 2-34**

API no.: 27-023-05205

Permit no.: 116

Location: SE¼SW¼NE¼ sec. 34, T9N, R57E

2,370 ft from north line, 1,655 ft from east line

Elevation: 4,745 ft

Completed: May 5, 1968

Status: P & A

NYE COUNTY (continued)

Depth: 8,044 ft

Tops:

Surface	Quaternary valley fill
7,394 ft	Tertiary volc.

Logs:

Driller	70-8,031 ft
IES	627-8,043 ft
FDC	7,000-8,043 ft

Remarks: A slight oil show was found in a DST at 7,395-7,428 ft.

TEXOTA OIL CO.

Eagle Springs Unit No. 17-35

API no.: 27-023-05073

Permit no.: 97

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T9N, R57E

1,050 ft from south line, 200 ft from west line

Elevation: 4,746 ft

Completed: Apr. 14, 1966

Status: P & A

Depth: 7,500 ft

Tops (from American Stratigraphy Co.):

Surface	Quaternary valley fill
6,779 ft	Eocene Sheep Pass Fm.
	(unconformity "A")

Logs:

IES	587-7,500 ft
ML/Cal	5,100-7,500 ft

Remarks: Minor oil shows were found in DST at 6,800-6,985 ft and 7,000-7,210 ft.

TEXOTA OIL CO.

Eagle Springs Unit No. 41-36

API no.: 27-023-05079

Permit no.: 96

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T9N, R57E

460 ft from north line, 2,430 ft from west line

Elevation: 4,790 ft

Completed: Oct. 1, 1966

Status: P & A

Depth: 7,566 ft

Tops (from American Stratigraphy Co.):

Surface	Quaternary valley fill
6,730 ft	unconformity "A"
6,870 ft	Eocene Sheep Pass Fm.(?)

Logs:

Lithologic	2,200-7,550 ft
IES	557-7,374 ft
Directional	557-7,375 ft
ML/Cal	5,900-7,374 ft

TEXOTA OIL CO.

Eagle Springs Unit No. 43-36

API no.: 27-023-05017

Permit no.: 83

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T9N, R57E

1,980 ft from north line, 2,310 ft from west line

Elevation: 4,791 ft

Completed: Aug. 6, 1965

Status: Producer

Field: Eagle Springs

Depth: 6,752 ft

Tops:

Surface	Quaternary valley fill
6,150 ft	Eocene Sheep Pass Fm.

Logs:

Lithologic	0-6,752 ft
IES	610-6,751 ft
ML	1,550-6,750 ft
CBL	6,000-6,666 ft
Directional	610-6,741 ft

Remarks: Oil zones at 6,128-6,236 ft, 6,258-6,412 ft, and 6,506-6,710 ft. DST at 6,147-6,416 ft had an oil show, and DST at 6,531-6,664 ft had an oil and gas show. Initial pumped production of 632 BOPD.

TEXOTA OIL CO.

Eagle Springs Unit No. 45-36

API no.: 27-023-05088

Permit no.: 88

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 36, T9N, R57E

2,300 ft from south line, 2,310 ft from west line

Elevation: 4,790 ft

Completed: Nov. 18, 1965

Status: Water-disposal well

Field: Eagle Springs

Depth: 6,903 ft

Tops (from American Stratigraphic Co.):

Surface	Quaternary valley fill
6,055 ft	unconformity "A"
6,055 ft	Eocene Sheep Pass Fm.
6,700 (?) ft	Paleozoic

Logs:

Lithologic	2,700-6,700 ft
IES	595-6,650 ft
S/GR	5,100-6,644 ft
GR/FDC	5,100-6,648 ft
ML/Cal	5,100-6,648 ft
Directional	595-6,638 ft

Remarks: Oil and gas zones at 6,064-6,085 ft, 6,095-6,103 ft, 6,145-6,165 ft, and 6,212-6,230 ft. Producing well until December 1978.

TEXOTA OIL CO.

Eagle Springs Unit No. 73-35

API no.: 27-023-05022

Permit no.: 69

Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T9N, R57E

Elevation: 4,774 ft (at KB)

Completed: Oct. 28, 1963

Status: Producer

Field: Eagle Springs

Depth: 6,779 ft

Tops:

Surface	Quaternary valley fill
3,340 ft	Paleozoic landslide
3,507 ft	Tertiary valley fill
6,170 ft	Oligocene volc.-
	unconformity "A"
6,403 ft	Eocene Sheep Pass Fm.

Logs:

Lithologic	650-6,750 ft
IES	634-6,778 ft
Directional	600-6,766 ft
ML	3,300-3,550 ft
ML	6,100-6,778 ft

Remarks: Oil zones at 6,170-6,280 ft and 6,537-6,708 ft. DST at 6,185-6,250 ft had an oil and gas show.

TEXOTA OIL CO.

Eagle Springs Unit No. 74-35

API no.: 27-023-05013

Permit no.: 71

Location: SW¼SE¼NE¼ sec. 35, T9N, R57E
2,272 ft from north line, 1,063 ft from east line
Elevation: 4,770 ft
Completed: Apr. 1, 1964
Status: Producer
Field: Eagle Springs
Depth: 7,045 ft

Tops (from American Stratigraphic Co.):

Surface	Quaternary valley fill
6,032 ft	Oligocene volc. (Garrett Ranch ?)
6,201 ft	Eocene Sheep Pass Fm.
6,995 ft	Paleozoic (Ely Ls.)

Logs:

Lithologic	0-7,045 ft
IES	635-7,062 ft
ML/Cal	4,550-7,062 ft
Directional	635-7,062 ft

Remarks: Producing from Eocene Sheep Pass Fm. Oil zones at 6,201-6,457 ft and 6,672-6,800 ft. DST at 6,240-6,350 ft had an oil show, and at 6,725-6,800 ft had an oil and gas show. First flowing well in Nevada (Murray and Bortz, 1967b, p. 11).

TEXOTA OIL CO.

Eagle Springs Unit No. 84-35

API no.: 27-023-05016

Permit no.: 77

Location: SE¼SE¼NE¼ sec. 35, T9N, R57E
2,272 ft from north line, 552 ft from east line

Elevation: 4,750 ft

Completed: Jan. 29, 1965

Status: Producer

Field: Eagle Springs

Depth: 6,909 ft

Tops:

Surface	Quaternary valley fill
6,055 ft	Oligocene volc. (Garrett Ranch Volc.?)
6,170 ft	Eocene Sheep Pass Ls.
6,900(?) ft	Paleozoic(?)

Logs:

Lithologic	556-6,905 ft
IES	556-6,909 ft
ML/Cal	5,900-6,904 ft

Remarks: Oil zone at 6,170-6,475 ft. DST at 6,212-6,365 ft and 6,754-6,908 ft had oil and gas shows, and at 6,674-6,740 ft had an oil show. Initial production of 210 BOPD and 0 BWPD.

TEXOTA OIL CO.

Eagle Springs Unit No. 85-35

API no.: 27-023-05014

Permit no.: 73

Location: center, NE¼SE¼ sec. 35, T9N, R57E
3,360 ft from north line, 660 ft from east line

Elevation: 4,768 ft at KB

Completed: June 6, 1964

Status: P & A

Depth: 8,485 ft

Tops:

Surface	Quaternary valley fill
5,854 ft	unconformity "A"
6,088 ft	Paleozoic
7,390 ft	Mississippian ss. (from PI)
7,630 ft	Mississippian ss. (from PI)
8,248 ft	Cambrian(?)

Logs:

IES	611-7,502 ft
S	3,450-7,498 ft
Directional	610-6,126 ft
Cal/ML	3,450-7,502 ft

Remarks: Oil and gas shows below 5,858 ft and in DST at 5,858-6,142 ft.

TRANS WESTERN LANDS, INC.

Eagle Springs Unit Penn Tex No. 1

API no.: 27-023-05103

Permit no.: 103

Location: SE¼NE¼NW¼ sec. 30, T9N, R58E
990 ft from north line, 1,900 ft from west line

Elevation: 4,867 ft

Completed: Mar. 18, 1967

Status: P & A

Depth: 4,420 ft

Tops (from PI):

Surface	Quaternary valley fill
3,948 ft	unconformity "A"
4,086 ft	Paleozoic

Logs:

IES	530-4,414 ft
N/Cal	3,900-4,414 ft

UNION TEXAS PETROLEUM CORP.

Nevada-Federal No. 15-1

API no.: 27-023-05348

Permit no.: 398

Location: NW¼NW¼NW¼ sec. 15, T7N, R57E
330 ft from north line, 330 ft from west line

Elevation: 4,784 ft

Completed: Aug. 28, 1984

Status: P & A

Depth: 7,220 ft

Tops:

Surface	Quaternary valley fill
TD	granite

Logs:

DI	605-5,980 ft
CN/FDC	605-5,982 ft
LSS	605-7,202 ft
GR	3,700-4,700 ft

Remarks: Hole bottomed in granite.

W.C. CO.

No. 1

API no.: 27-023-05019

Permit no.: 84

Location: center, NW¼SW¼ sec. 8, T10N, R58E
1,980 ft from south line, 620 ft from west line

Elevation: 5,200 ft

Completed: Aug. 19, 1965

Status: Water well

Depth: 620 ft

Tops:

Surface	valley fill to bottom
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Remarks: Trouble with the casing prevented further drilling.

W.C. CO.

No. 1-X

API no.: 27-023-04999

Permit no.: NY2

Location: NW¼SW¼ sec. 8, T10N, R58E
1,980 ft from south line, 628 ft from west line

Elevation: 5,200 ft

NYE COUNTY (continued)

Completed: Oct. 4, 1965

Status: D & A

Depth: 402 ft

Tops:

Surface valley fill to bottom

Remarks: This well was drilled and abandoned with junk in the hole. This was an attempted redrill of W.C. Co. No. 1, Permit #84.

WEST END OPETECA

Federal U.S. No. 28-1

API no.: 27-023-05021

Permit no.: 30

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T11N, R60E

330 ft from north line, 330 ft from east line

Elevation: 6,610 ft

Completed: July 1958

Status: P & A

Depth: 692 ft

Tops:

Surface ls. to bottom

WESTERN AVENUE PROPERTIES

J.N. Oil & Gas Federal No. 1

API no.: 27-023-05369

Permit no.: 449

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T9N, R56E

330 ft from north line, 2,310 ft from west line

Elevation: 4,739 ft

Completed: Sept. 19, 1985

Status: Producer

Field: Trap Spring

Depth: 3,842 ft

Samples:

Cuttings 40-3,842 ft

Remarks: Ownership was changed to Dabros Properties Inc. Initial production of 204 BOPD from volcanics (Petroleum Information).

WESTERN AVENUE PROPERTIES

Munson Ranch No. 12-24

API no.: 27-023-05363

Permit no.: 432

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T9N, R56E

330 ft from south line, 2,310 ft from west line

Elevation: 4,783 ft

Completed: Apr. 27, 1985

Status: Producer

Field: Trap Spring

Depth: 4,470 ft

Logs:

DI 416-3,874 ft

Samples:

Cuttings 470-4,340 ft

Remarks: Oil zone at 3,795-4,470 ft. This well initially produced 227 BOPD.

WESTERN AVENUE PROPERTIES

Munson Ranch No. 12-33

API no.: 27-023-05362

Permit no.: 423

Location: center, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T9N, R56E

1,980 ft from south line, 1,980 ft from east line

Elevation: 4,787 ft

Completed: Mar. 27, 1985

Status: Producer

Field: Trap Spring

Depth: 4,470 ft

Tops:

Surface

3,680 ft

Quaternary valley fill

Tertiary upper cooling unit

Logs:

Driller

0-4,470 ft

DI/GR

458-3,820 ft

Samples:

Cuttings

460-4,470 ft

Remarks: Oil zone at 3,510-4,470 ft. This well may be shut in. It initially produced 21 BOPD.

WESTERN AVENUE PROPERTIES

Munson Ranch No. 12-34

API no.: 27-023-05354

Permit no.: 406

Location: center, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T9N, R56E

660 ft from south line, 1,980 ft from east line

Elevation: 4,782 ft

Completed: Oct. 28, 1984

Status: Producer

Field: Trap Spring

Depth: 4,424 ft

Tops:

Surface

3,880 ft

Quaternary valley fill

Tertiary upper cooling unit

Logs:

DI

444-4,409 ft

Samples:

Cuttings

470-4,100 ft

Remarks: Oil zone at 3,920-4,424 ft. Producing formation is volcanic. This well initially produced 537 BOPD.

WESTERN AVENUE PROPERTIES

Munson Ranch No. 12-44X

API no.: 27-023-05366

Permit no.: 445

Location: center, N $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T9N, R56E

990 ft from south line, 660 ft from east line

Elevation: 4,783 ft

Completed: July 5, 1985

Status: Producer

Field: Trap Spring

Depth: 4,550 ft

Logs:

DI/GR

447-4,248 ft

Samples:

Cuttings

466-4,550 ft

Remarks: Oil zone at 4,030-4,550 ft. This well initially produced 46 BOPD.

WESTERN AVENUE PROPERTIES

Munson Ranch No. 13-31

API no.: 27-023-05337

Permit no.: 382

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T9N, R56E

684 ft from north line, 1,985 ft from east line

Elevation: 4,779 ft

Completed: July 25, 1984

Status: Producer

Field: Trap Spring

Depth: 4,480 ft

Logs:

DI

416-4,080 ft

DIL

4,118-4,458 ft

Samples:

Cuttings 40-4,470 ft

Remarks: Oil zone at 4,125-4,480 ft. Producing formation is volcanics(?). This well initially produced 233 BOPD.

WESTERN AVENUE PROPERTIES

Munson Ranch No. 13-32

API no.: 27-023-05329

Permit no.: 373

Location: center, SW¼NE¼ sec. 13, T9N, R56E

3,300 ft from south line, 1,980 ft from east line

Elevation: 4,776 ft

Completed: Aug. 18, 1984

Status: Producer

Field: Trap Spring

Depth: 4,515 ft

Tops:

?	Tertiary upper cooling unit
4,464 ft	Tertiary second cooling unit

Logs:

DI/GR	440-4,273 ft
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Samples:

Cuttings	70-4,272 ft
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Remarks: Oil zone at 4,110-4,515 ft. This well initially produced 80 BOPD.

WESTERN AVENUE PROPERTIES

Munson Ranch No. 13-41X

API no.: 27-023-05368

Permit no.: 448

Location: NW¼NE¼NE¼ sec. 13, T9N, R56E

330 ft from north line, 990 ft from east line

Elevation: 4,780 ft

Completed: Sept. 30, 1985

Status: Producer

Field: Trap Spring

Depth: 4,524 ft

Tops:

Surface	Quaternary valley fill
3,500 ft	Tertiary lakebed caprock
4,283 ft	Tertiary tuff of Pritchards Station

Logs:

Lithologic	450-4,524 ft
DIL/GR	440-4,301 ft

Samples:

Cuttings	445-4,524 ft
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Remarks: Oil zone is 4,272-4,524 ft. This well initially produced 155 BOPD.

WESTERN AVENUE PROPERTIES

Munson Ranch No. 14-24

API no.: 27-023-05319

Permit no.: 354

Location: NW¼SE¼SW¼ sec. 14, T9N, R56E

700 ft from south line, 1,850 ft from west line

Elevation: 4,772 ft

Completed: Oct. 21, 1983

Status: Producer

Field: Trap Spring

Depth: 3,854 ft

Tops:

Surface	Quaternary valley fill
2,902 ft	Tertiary volcanic ash flow
3,142 ft	Tertiary upper cooling unit-ignimbrites

Logs:

Lithologic	30-3,854 ft
DI/Cal/GR	437-3,307 ft

Samples:

Cuttings 30-3,854 ft

Remarks: Oil zones at 3,740-3,770 ft and 3,800-3,854 ft. Elevation 4,772 ft at ground level and 4,789 ft at KB. Depths to tops 2,902 ft and 3,142 ft were taken from the KB. This well initially produced 159 BOPD.

WESTERN OIL LANDS, INC.

Pennington No. 7

API no.: 27-023-05080-R

Permit no.: 81

Location: SE¼NE¼ sec. 36, T9N, R57E

2,145 ft from north line, 825 ft from east line

Elevation: 4,836 ft

Completed: Apr. 3, 1967

Status: P & A

Depth: 5,670 ft

Tops (from American Stratigraphic Co.):

Surface	Quaternary valley fill
5,390 ft	Eocene Sheep Pass Fm.(?)
5,626 ft	Paleozoic

Logs:

Lithologic	545-6,045 ft
IES	513-6,048 ft
Micro/Cal	1,900-6,048 ft

Remarks: Originally drilled to 6,048 ft in 1965 as Steve Gose Government No. 1-36. Western Oil Lands, Inc. redrilled to 5,670 ft. Test data from Petroleum Information.

WESTERN OIL LANDS, INC.

Pennington No. 8

API no.: 27-023-05203

Permit no.: 114

Location: W½SW¼NE¼ sec. 36, T9N, R57E

1,980 ft from north line, 1,560 ft from east line

Elevation: 4,818 ft

Completed: Jan. 28, 1968

Status: P & A

Depth: 6,771 ft

Logs:

IES	5,000-6,765 ft
Micro/Cal	5,000-6,770 ft

WESTERN OIL LANDS, INC.

Pennington-Federal No. 1

API no.: 27-023-05076

Permit no.: 76

Location: center, W½SW¼NE¼ sec. 36, T9N, R57E

1,980 ft from north line, 2,310 ft from east line

Elevation: 4,808 ft

Completed: Feb. 15, 1965

Status: Producer

Field: Eagle Springs

Depth: 7,020 ft

Tops:

Surface	Quaternary valley fill
6,170 ft	Tertiary
6,790 ft	Paleozoic

Logs:

IES	631-7,024 ft
ML	6,000-7,012 ft

Remarks: Oil zone at 6,350-6,790 ft. Producing formation is Eocene Sheep Pass Fm. DST at 5,920-6,040 ft had oil-cut mud, at 6,490-6,670 ft had oil and gas shows, and at 6,110-6,212 had mud-cut oil.

WESTERN OIL LANDS, INC.

Pennington-Federal No. 2

API no.: 27-023-05077

NYE COUNTY (continued)

Permit no.: 80

Location: center, NW¼SE¼ sec. 36, T9N, R57E
1,980 ft from south line, 1,980 ft from east line

Elevation: 4,807 ft

Completed: July 5, 1965

Status: Producer

Field: Eagle Springs

Depth: 6,660 ft

Tops (from PI):

Surface	Quaternary valley fill
5,940 ft	Eocene Sheep Pass Fm.
6,001 ft	Paleozoic

Remarks: Oil zone at 5,890-6,040 ft. Producing formation is Eocene Sheep Pass limestone. DST at 6,280-6,380 ft had gas-cut mud and at 5,950-5,978 ft had oil and water-cut mud.

WESTERN OIL LANDS, INC.

Pennington-Federal No. 3

API no.: 27-023-05078

Permit no.: 82

Location: center, NE¼NE¼ sec. 36, T9N, R57E
660 ft from north line, 660 ft from east line

Elevation: 4,826 ft

Completed: Sept. 6, 1965

Status: P & A

Depth: 7,195 ft

Tops:

Surface	Quaternary valley fill
5,728 ft	ls.

Logs:

Lithologic	3,825-7,195 ft
IES	510-7,079 ft
ML	5,000-7,083 ft
FDL	5,000-7,082 ft

Remarks: Oil shows were found on whipstocked hole in limestone. The TD on whipstocked hole was 6,570 ft. Oil show in DST at 6,392-6,470 ft.

WESTERN OIL LANDS, INC.

Pennington-Federal No. 4

API no.: 27-023-05086

Permit no.: 86

Location: center, N½NW¼SE¼ sec. 36, T9N, R57E
2,310 ft from south line, 1,980 ft from east line

Elevation: 4,814 ft

Completed: Oct. 18, 1965

Status: Producer

Field: Eagle Springs

Depth: 6,381 ft

Tops (from PI):

Surface	Quaternary valley fill
5,770 ft	Eocene Sheep Pass Fm.

Logs:

IES	602-6,381 ft
ML/Cal	4,700-6,381 ft
Directional	602-6,362 ft

Remarks: Oil zone at 5,770-6,140 ft.

WESTERN OIL LANDS, INC.

Pennington-Federal No. 5

API no.: 27-023-05075

Permit no.: 94

Location: SW¼NW¼NE¼ sec. 36, T9N, R57E

920 ft from north line, 2,040 ft from east line

Elevation: 4,802 ft

Completed: Apr. 6, 1966

Status: Producer

Field: Eagle Springs

Depth: 7,170 ft

Tops:

Surface	valley fill
6,510 ft	Eocene Sheep Pass Fm.-
	unconformity "A"
6,672 ft	Eocene Sheep Pass Fm.-"1st" ls.
7,070 ft	Eocene Sheep Pass Fm.-"2nd" ls.

Logs:

IES	514-7,170 ft
ML/Cal	5,500-7,170 ft
Directional	514-6,988 ft

Remarks: Oil zone at 6,674-6,930 ft, in Sheep Pass Fm. DST at 6,674-6,802 had an oil show.

WESTERN OIL LANDS, INC.

Pennington-Federal No. 6

API no.: 27-023-05098

Permit no.: 98

Location: center, N½NW¼NE¼ sec. 1, T8N, R57E
300 ft from north line, 1,980 ft from east line

Elevation: 4,784 ft

Completed: Apr. 20, 1966

Status: P & A

Depth: 5,204 ft

Tops:

Surface	valley fill
5,008 ft	Paleozoic (from PI)

Logs:

IES	516-5,204 ft
ML/Cal	3,700-5,204 ft
Directional	516-5,197 ft

WEXPRO CO.

Blue Eagle Unit No. 1

API no.: 27-023-05304

Permit no.: 315

Location: W½NE¼NW¼ sec. 33, T10N, R57E
625 ft from north line, 1,804 ft from west line

Elevation: 4,834 ft

Completed: 1981

Status: P & A

Depth: 5,954 ft

Tops:

Surface	Quaternary valley fill
2,820 ft	Tertiary Garrett Ranch Volc.
4,320 ft	Eocene Sheep Pass Fm.
4,710 ft	Paleozoic weathered-
	undifferentiated
4,950 ft	Paleozoic unweathered-
	undifferentiated
5,135 ft	Mississippian Illipah ss.
5,413 ft	Mississippian Chainman Sh.
5,700 ft	Mississippian Joana Ls.

Logs:

DIL	790-5,945 ft
BHCS	790-5,948 ft
CNL/FDC	3,000-5,950 ft
DM	790-5,944 ft
FIL	3,000-5,944 ft

Samples:

Cuttings	30-5,900 ft
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PERSHING COUNTY

Only one exploratory well has been drilled in Pershing County. It was drilled in 1984, probably to test for oil that may have been generated from Triassic or younger rocks and migrated to combination structural-stratigraphic traps. Two areas in the southeastern part of the county have reported oil from outcrop samples. At one locality in Favrat Canyon in the Augusta Mountains (sec. 12, T25N, R39E), the chambers of ammonoids found in concretions commonly yield liquid hydrocarbons. The concretions occur in the Fossil Hill Member of the Triassic Favret Formation (Nichols and Silberling, 1977; Bortz, 1983, p. 190-192). At the other locality (sec. 16?, T26N, R39E), in the southern Tobin Range, a liquid hydrocarbon is reported from the chambers of cephalopod shells from the Triassic Favret and Prida Formations, undifferentiated (Burke, 1973, p. 48; Bortz, 1983, p. 190).

Well Data

ARCO OIL & GAS CO.

Tobin No. 1

API no.: 27-027-05000

Permit no.: 408

Location: NW¼NE¼ sec. 4, T25N, R39E

1,000 ft from north line, 1,500 ft from east line

Elevation: 3,814 ft

Completed: Dec. 6, 1984

Status: P & A

Depth: 2,065 ft

Tops:

Surface	Tertiary sediments
406 ft	pre-Tertiary 2,600 ft volc.
3,050 ft	Paleozoic

Logs:

Lithologic	120-2,066 ft
BHCS	850-1,934 ft
DLL/ML	850-1,928 ft
Directional	850-1,940 ft
DM	850-1,940 ft
Sonic waveform	850-1,934 ft

Samples:

Cuttings	120-2,060 ft
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WASHOE COUNTY

Only two wells are reported to have been drilled in Washoe County, and there is some doubt about one of them. Rumors of discoveries and plans for oil developments abounded in the early 1900's (see the bibliography for citations of articles in the Nevada State Journal and the Reno Evening Gazette; also see Anderson, 1909a). Most of these early rumors were probably based on speculation or promotion, or on prognostications by so-called oil experts about the oil potential of an area or areas.

There are no confirmed oil shows in Washoe County, but methane gas (probably of biogenic origin—swamp gas) has been reported from two areas. In 1920, flammable gas was reported from a shallow water well in Honey Lake valley, about 2 miles east of Flanigan

(Moody, 1985, p. 43); this well was probably in sec. 33(?), T27N, R19E. Considerable promotion and speculation followed, but no oil exploration wells are known to have been drilled, although a drill rig purchased from the Black Rock Oil Co. was used near Sulfur in Humboldt County.

Prokopovich (1978, 1983) noted small amounts of biogenic methane gas in shallow drill holes in Pleistocene and Holocene sediments near Pyramid Lake. No other Washoe County methane occurrences are known.

Well Data

UNKNOWN OPERATOR

Peavine Mountain Well

API no.: 27-031-04999

Permit no.: WA2

Location: T19N or T20N, R18E or R19E

Remarks: This well was reportedly drilled on Peavine Mountain (Lintz, 1957a, p. 46).

WASHOE OIL & DEVELOPMENT CO.

No. 1

API no.: 27-031-05000

Permit no.: WA1

Location: SE¼ sec. 21, T19N, R19E

Elevation: 4,900 ft

Completed: 1908

Status: D & A

Depth: 1,890 ft

Tops:

Surface	alluvium
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Logs:

Lithologic	0-1,890 ft
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Remarks: This is reputed to be the first well drilled in Nevada.

The location is on a terrace overlooking the Truckee River.

Oil and gas shows were reported from this well and may have come from some lacustrine beds. Hot water was reported at 1,173 ft (Lintz, 1957a, p. 45). A 10-inch rusty casing is still visible at the surface.

WHITE PINE COUNTY

The first known oil well in White Pine County was drilled on the Illipah anticline in 1920, but there was interest at least as early as 1909 (Nevada State Journal, Mar. 15 and Apr. 23, 1909). Shows of oil and gas in the shallow Illipah well encouraged the drilling of several more wells in the vicinity.

The drilling of the Standard-Conoco Meridian Unit No. 1 (fig. 18) in 1950 marked the beginning of modern oil exploration in Nevada. Several more Standard-Conoco wells followed, but little other drilling was done until Gulf Oil Corp. drilled a series of wells in the mid-1960's.

Exploration interest in White Pine County has continued because of the numerous shows and the presence of good potential source rocks. Two surface occurrences of oil are known in Mississippian Chainman Shale in White Pine County. In Hamilton Canyon (sec. 3, T17N, R58E), greenish oil occurs in fossil cavities,



FIGURE 18.—The beginning of modern oil exploration in Nevada. Standard-Conoco Meridian Unit No. 1 during drilling in 1950, White Pine County. *Robert C. Horton photo.*

WHITE PINE COUNTY (continued)

voids, calcite veinlets, and on fracture surfaces (Humphrey, 1960, p. 110; Poole and Claypool, 1984). The other occurrence is near Little Antelope Summit where yellowish-green oil occurs along some calcite-lined fractures in a limestone lens that crops out in sec. 34, T18N, R58E (Poole and Claypool, 1984).

Well Data

AMERADA HESS CORP.

Federal No. 1-20

API no.: 27-033-05235

Permit no.: 262

Location: center, SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T12N, R67E
1,980 ft from north line, 1,980 ft from west line

Elevation: 5,752 ft

Completed: Aug. 26, 1979

Status: P & A

Depth: 5,957 ft

Logs:

DIL	1,060-5,951 ft
CNL/FDC	1,060-5,953 ft
BHCS	1,060-5,945 ft
FDC	1,060-5,953 ft
Spectralog	50-5,953 ft

Samples:

Cuttings	30-5,940 ft
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AMERICAN HUNTER EXPLORATION

Black Jack Springs Federal No. 1

API no.: 27-033-05243

Permit no.: 300

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, T14N, R60E

2,488 ft from north line, 279 ft from east line

Elevation: 6,520 ft

Completed: Feb. 2, 1981

Status: P & A

Depth: 8,125 ft

Tops:

Surface	Quaternary valley fill
440 ft	Tertiary volc.
1,728 ft	Mississippian Diamond Peak Fm.
2,320 ft	brown sh.
2,827 ft	Mississippian Joana Ls.
3,320 ft	Mississippian Pilot Sh.
3,462 ft	Devonian Guilmette Ls.
4,858 ft	Devonian Simonson Dol.
5,877 ft	Devonian Sevy Dol.
6,806 ft	Silurian Laketown Dol.
7,688 ft	Ordovician Eureka Qtz.
8,012 ft	Ordovician Pogonip Gp.

Logs:

Lithologic	40-8,125 ft
Directional survey	823-2,838 ft
DM	826-8,142 ft
DIL	0-8,148 ft
CNL/FDC	100-8,140 ft
PL	3,286-8,140 ft
GR	100-8,140 ft
DLL	3,286-8,139 ft

Samples:

Cuttings	0-8,125 ft
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Remarks: Maturation analysis and palynology report available at NBMG.

AMERICAN QUASAR PETROLEUM CO.

Long Valley Federal No. 34-1

API no.: 27-033-05230

Permit no.: 228

Location: SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T22N, R58E

1,400 ft from north line, 300 ft from east line

Elevation: 6,103 ft

Completed: May 12, 1978

Status: P & A

Depth: 6,563 ft

Tops (from PI):

1,050 ft	Tertiary volc.
2,710 ft	Pennsylvanian
2,918 ft	Mississippian Chainman Sh.
4,536 ft	Mississippian Joana Ls.
5,070 ft	Mississippian Pilot Sh.
5,910 ft	Devonian Guilmette Ls.

Logs:

DIL	1,000-5,994 ft
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BHCS	1,000-4,990 ft
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CNL/FDC	1,000-5,003 ft
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GR/N	4,400-6,562 ft
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Samples:

Cuttings	1,090-5,930 ft
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Remarks: Organic-maturation analysis available at NBMG.

Oil shows are rumored at approximately 3,000 ft (Hotline Energy Reports, May 11, 1985).

AMOCO PRODUCTION CO.

Stage Line Unit No. 1-A

API no.: 27-033-05252

Permit no.: 427

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T23N, R56E

370 ft from south line, 1,750 ft from west line

Elevation: 5,882 ft

Completed: May 24, 1985

Status: P & A

Depth: 8,500 ft

Tops:

Surface	Quaternary valley fill
482 ft	Mississippian Diamond Peak Fm.
902 ft	Mississippian Chainman Sh.
1,800 ft	Mississippian/Devonian Joana Ls.
2,124 ft	Mississippian/Devonian Pilot Sh.
2,382 ft	Devonian Nevada Fm.-
	Devils Gate Ls. Mbr.
3,927 ft	Devonian Nevada Fm.-
	Bay State Dol. Mbr.
4,746 ft	Devonian Nevada Fm.-
	Woodpecker Ls. Mbr.
4,932 ft	Devonian Nevada Fm.-
	Sentinel Mountain Dol. Mbr.
6,794 ft	Devonian Nevada Fm.-
	Oxyoke Canyon Ss. Mbr.
7,000 ft	Devonian Nevada Fm.-
	Beacon Peak Dol. Mbr.
7,228 ft	Silurian/Ordovician (?)

Logs:

Lithologic	60-8,500 ft
GR	879-8,465 ft
DM	6,008-8,495 ft
BHCS	879-8,484 ft
LSS/GR/Cal	6,008-8,484 ft
DI	879-5,006 ft
CNL/FDC	879-8,498 ft
DLL	3,000-8,485 ft
TS	0-2,919 ft
S	6,008-8,484 ft

Samples:

Cuttings	30-8,500 ft
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Remarks: Dead oil and gas show reported at 900-910 ft. Stage Line Unit No. 1 was located 30 ft north of this well. It was P & A at 1,902 ft in depth, no logs, cores, or tests were made. This well is a redrill of Stage Line No. 1. Lithologic log for No. 1 is available at NBMG. Stage Line Unit No. 1-A encountered water sands at 2,696 ft that flowed 60 BWPM and at 2,992 ft that flowed 50 BWPM.

COMMODORE RESOURCES

Outlaw Federal No. 1

API no.: 27-033-05245

Permit no.: 337

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T10N, R70E

860 ft from north line, 810 ft from east line

Elevation: 5,444 ft

Completed: Dec. 13, 1983

Status: P & A

WHITE PINE COUNTY (continued)

Depth: 13,000 ft

Logs:

BHCS	518-12,982 ft
CNL/FDC	5,496-12,991 ft
FIL	518-12,994 ft
DLL	518-12,992 ft

Remarks: This well is in Mississippian Chainman at 2,987-3,122 ft, in Mississippian Joana Ls. at 4,669-4,676 ft, and Mississippian at 5,462-5,476 ft. The bottom of the hole is in Ordovician Pogonip Gp. A gas show is reported at approximately 3,000 ft. High molecular weight oil is reported at 12,081-12,090 ft (Hotline Energy Reports, Sept. 25, 1982, and Oct. 9, 1982). Numerous swab tests were made. A sample of heavy tarry material reported from about 12,000 ft was found to be a mixture that included a possible refined petroleum product (Poole and Claypool, 1984, p. 198).

CONOCO, INC.

Conoco Federal No. 29-1

API no.: 27-033-05238

Permit no.: 271

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T13N, R62E
330 ft from north line, 990 ft from west line

Elevation: 5,750 ft

Completed: Dec. 22, 1979

Status: P & A

Depth: 3,145 ft

Tops:

Surface	valley fill
1,620 ft	Permian

Logs:

Litholog	300-3,145 ft
DI	1,047-3,145 ft
BHCS	1,067-3,145 ft

Samples:

Cuttings	300-3,136 ft
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Remarks: Minor oil show at 1,460 ft.

CONOCO, INC.

Conoco Federal 8 No. 1

API no.: 27-033-05242

Permit no.: 288

Location: center, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T12N, R62E
660 ft from north line, 1,980 ft from east line

Elevation: 5,635 ft

Completed: Oct. 20, 1980

Status: P & A

Depth: 6,156 ft

Tops:

Surface	Quaternary valley fill
1,988 ft	Tertiary volc.
4,334 ft	Tertiary(?) basal ss.
4,681 ft	Permian

Logs:

Lithologic	60-6,156 ft
DI	1,022-6,150 ft
Directional	1,028-6,149 ft
BHCS	1,022-6,150 ft
DM	1,022-6,150 ft

Samples:

Cuttings	0-6,156 ft
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DOME PETROLEUM CORP.

Bastian Creek No. 1

API no.: 27-033-05229

Permit no.: 227

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T15N, R66E

Elevation: 5,759 ft

Completed: Feb. 2, 1978

Status: P & A

Depth: 4,761 ft

Tops:

Surface	valley fill(?)
4,100 ft	dol. and ls.
4,550 ft	igneous intrusive

Logs:

Lithologic	50-4,761 ft
DI	705-4,759 ft
BHCS/GR/Cal	694-4,761 ft

Samples:

Cuttings	50-4,750 ft
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Remarks: Trace oil show at 3,050 ft.

DOME PETROLEUM CORP.

Duck Creek No. 1

API no.: 27-033-05227

Permit no.: 225

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T20N, R63E
1,120 ft from south line, 495 ft from west line

Elevation: 6,030 ft

Completed: Jan. 14, 1978

Status: P & A

Depth: 9,263 ft

Logs:

Lithologic	50-9,263 ft
DIL	698-9,265 ft
BHCS	70-9,259 ft

Samples:

Cuttings	55-9,263 ft
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Remarks: Well rumored to pass from valley fill directly (8,000 ft) into granodiorite.

DOME PETROLEUM CORP.

Grass Springs No. 1

API no.: 27-033-05228

Permit no.: 226

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T19N, R63E
630 ft from north line, 985 ft from east line

Elevation: 6,017 ft

Completed: Jan. 11, 1978

Status: P & A

Depth: 4,407 ft

Tops:

Surface	Quaternary valley fill
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Logs:

Lithologic	100-4,407 ft
DIL	2,000-4,407 ft
BHCS	60-4,404 ft
CNL/FDC	2,000-4,413 ft

Samples:

Cuttings	100-4,405 ft
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Remarks: Minor oil shows at 2,690 ft and 2,775 ft. Tertiary source-rock analysis is available for 3,380-3,520 ft at NBMG.

DOME PETROLEUM CORP.

Steptoe Federal No. 1-24

API no.: 27-033-05244

Permit no.: 314

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T19N, R63E
633 ft from north line, 660 ft from east line

Elevation: 6,100 ft

Completed: Apr. 25, 1981

Status: P & A

Depth: 6,075 ft

Tops:

Surface	valley fill
2,135 ft	Tertiary volc. (tuff)
4,370 ft	Tertiary(?) North Creek Fm.(?)
5,335 ft	Permian-Pennsylvanian carbonate rocks

Logs:

Lithologic	1,900-6,075 ft
DIL	777-6,073 ft
FDC/CNL	777-6,073 ft

Samples:

Cuttings	2,500-6,075 ft
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Remarks: Possible oil show (very faint fluorescent cut) at 5,335 ft.

DOME PETROLEUM CORP.

Yelland No. 1

API no.: 27-033-05240

Permit no.: 283

Location: NW¼SE¼ sec. 23, T17N, R67E

1,650 ft from south line, 1,650 ft from east line

Elevation: 5,549 ft

Completed: May 5, 1980

Status: P & A

Depth: 6,555 ft

Tops:

Surface	valley fill
3,582 ft	Tertiary volc.
4,826 ft	Tertiary(?) Kinsey Canyon Fm.
5,710 ft	Paleozoic(?) fault
5,860 ft	fault(?)

Logs:

Lithologic	721-6,555 ft
DI	60-6,555 ft
CNL/FDC	2,000-6,555 ft
BHCS	722-6,548 ft

Samples:

Cuttings	42-6,550 ft
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EL PASO NATIONAL GAS CO.

Long Valley No. 35-88

API no.: 27-033-05059

Permit no.: 102

Location: SE¼SE¼SE¼ sec. 35, T23N, R58E

650 ft from south line, 650 ft from east line

Elevation: 6,330 ft

Completed: Mar. 21, 1967

Status: P & A

Depth: 7,084 ft

Tops:

5,876 ft	Paleozoic carbonate rocks
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Logs:

Lithologic	0-7,083 ft
DIL	5,835-7,028 ft
IES	495-6,813 ft
SNP	5,600-7,030 ft
GR/FDC	2,500-7,028 ft
BHCS/GR	495-7,061 ft
Computed	6,009-7,030 ft

Remarks: Good oil shows were reported at 15 different intervals from 3,730 ft to TD. Geologic summary available at NBMG. Permian rocks, Ely Ls., and Diamond Peak Fm. reported above 5,876 ft. Gas produced a froth in drilling mud at 3,900-5,833 ft. Complete testing was impossible due to the mechanical condition of the well.

EMPIRE STATE OIL CO.

Government (Indian Springs) No. 1

API no.: 27-033-05078

Permit no.: 78

Location: center, SW¼SE¼ sec. 27, T11N, R61E

660 ft from south line, 1,980 ft from east line

Elevation: 5,410 ft

Completed: Jan. 22, 1965

Status: P & A

Depth: 5,895 ft

Tops:

Surface	Quaternary valley fill
1,456 ft	Tertiary volc.
4,728 ft	Mississippian Chainman Sh.
5,369 ft	Mississippian Joana Ls.

Logs:

Lithologic	740-5,890 ft
IES	547-5,895 ft
S/GR	1,300-5,893 ft
ML/Cal	1,300-5,894 ft

EMPIRE STATE OIL CO.

Government No. 1

API no.: 27-033-05001

Permit no.: 75

Location: center, E½SE¼NE¼ sec. 19, T10N, R62E

1,980 ft from north line, 330 ft from east line

Elevation: 5,625 ft

Completed: Oct. 10, 1964

Status: P & A

Depth: 3,581 ft

Tops (from American Stratigraphic Co.):

Surface	Quaternary valley fill
1,270 ft	Oligocene Garrett Ranch Volc.
1,972 ft	Eocene Sheep Pass Fm.

Logs:

Lithologic	395-3,573 ft
IES	580-3,529 ft
S/GR	670-3,524 ft
ML	580-3,528 ft

GARY, SAMUEL, OIL PRODUCER

Federal No. 30-10

API no.: 27-033-05241

Permit no.: 286

Location: SW¼NW¼SE¼ sec. 30, T13N, R59E

1,660 ft from south line, 2,715 ft from west line

Elevation: 7,502 ft

Completed: Sept. 8, 1980

Status: P & A

Depth: 5,345 ft

Logs:

Lithologic	3,717-5,345 ft
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Samples:

Cuttings	80-5,340 ft
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Remarks: Tertiary tuff present from 3,720 ft (not top) to TD.

GUADALUPE EXPLORATION CORP.

Long Valley No. 1

API no.: 27-033-05214

Permit no.: 157

Location: SW¼SE¼ sec. 35, T23N, R58E

661 ft from south line, 1,994 ft from east line

Elevation: 6,337 ft

Completed: Feb. 23, 1974

Status: P & A

Depth: 7,020 ft

WHITE PINE COUNTY (continued)

Tops (from PI):

1,265 ft	Permian
1,318 ft	Pennsylvanian
5,465 ft	Mississippian
6,340 ft	Mississippian Joana Ls.
6,635 ft	Devonian Pilot Sh.

Logs:

Lithologic	1,450-7,020 ft
DI/GR	0-4,899 ft
Densilog	4,900-6,296 ft

Samples:

Cuttings	1,450-7,200 ft
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Remarks: Ten oil and gas zones encountered from 3,740 ft to 5,870 ft. Many fresh water sands encountered at 0-4,633 ft. Source-rock analysis reports available at NBMG.

GULF OIL CORP.

Jake's Wash Unit No. 4

API no.: 27-033-05224

Permit no.: 175

Location: E $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T14N, R61E

713 ft from north line, 972 ft from west line

Elevation: 6,210 ft

Completed: Aug. 22, 1975

Status: P & A

Depth: 4,600 ft

Tops:

Surface	ls. and chert
1,531 ft	sh. and ss.
3,920 ft	Devonian

Logs:

DIL	1,523-3,453 ft
CNL/FDC	1,530-3,457 ft
DM	2,380-3,453 ft
Directional	2,381-3,453 ft

Samples:

Cuttings	40-4,600 ft
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GULF OIL CORP.

Newark Valley Unit No. 1 (Nevada-Federal CG)

API no.: 27-033-05052

Permit no.: 99

Location: center, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T19N, R55E

1,980 ft from north line, 660 ft from west line

Elevation: 5,877 ft

Completed: Apr. 14, 1966

Status: P & A

Depth: 5,001 ft

Tops:

Surface	valley fill
3,940 ft	base of valley fill
4,936 ft	Paleozoic

Logs:

DIL	488-5,043 ft
GR/BHCS	488-5,038 ft
FDC/GR	488-5,046 ft
ML	488-5,046 ft

GULF OIL CORP. OF CALIFORNIA

Gose "DQ" Federal "A" No. 1

API no.: 27-033-05201

Permit no.: 120

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 10, T10N, R61E

914 ft from north line, 908 ft from west line

Elevation: 5,382 ft

Completed: Aug. 22, 1968

Status: P & A

Depth: 4,957 ft

Tops:

Surface	Quaternary valley fill
1,050 ft	Tertiary volc.
2,393 ft	Eocene Sheep Pass Fm.
3,010 ft	Pennsylvanian Ely Ls.
4,624 ft	Mississippian Chainman Sh.
4,730 ft	Mississippian Joana Ls.

Logs:

Lithologic	480-4,950 ft
IES	606-4,946 ft
FDC/GR	900-3,737 ft
SNP	900-3,737 ft
BHCS/GR/Cal	606-4,948 ft
DIL	606-4,946 ft

GULF OIL CORP. OF CALIFORNIA

Nevada-Federal "A" No. 1

API no.: 27-033-05053

Permit no.: 90

Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T19N, R64E

4,593 ft from north line, 673 ft from east line

Elevation: 6,186 ft

Completed: Nov. 4, 1965

Status: P & A

Depth: 6,100 ft

Tops:

Surface	Quaternary valley fill
2,008 ft	base of valley fill (from PI)
5,890 ft	Paleozoic

Logs:

FDC/GR	646-6,097 ft
ML	2,300-6,097 ft
DM	648-6,093 ft
DIL	646-6,092 ft

Samples:

Cuttings	0-6,100 ft
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Remarks: Tertiary source-rock analysis is available at NBMG. Test data, DST 5,115-5,264 ft, from Petroleum Information.

GULF OIL CORP. OF CALIFORNIA

Nevada-Federal "BS" No. 1

API no.: 27-033-05054

Permit no.: 93

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T20N, R61E

877 ft from south line, 559 ft from east line

Elevation: 6,266 ft

Completed: Jan. 15, 1966

Status: P & A

Depth: 2,978 ft

Logs:

BHCS/GR	503-2,973 ft
ML	503-2,980 ft
DIL	503-2,977 ft
DM	503-2,977 ft
FDC/GR	503-2,980 ft

GULF OIL CORP. OF CALIFORNIA

Nevada-Federal "O" No. 1

API no.: 27-033-05051

Permit no.: 85

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30, T16N, R64E

1,866 ft from north line, 1,960 ft from east line

Elevation: 6,586 ft

Completed: Sept. 4, 1965

Status: P & A
Depth: 2,690 ft
Remarks: Abandoned because of lost circulation.

GULF OIL CORP. OF CALIFORNIA

Nevada-Federal "O" No. 2

API no.: 27-033-05050

Permit no.: 92

Location: SW¼NW¼NW¼ sec. 30, T16N, R64E
990 ft from north line, 330 ft from west line

Elevation: 6,407 ft

Completed: Nov. 30, 1965

Status: P & A

Depth: 3,253 ft

Logs:

DIL	468-3,256 ft
BHCS/GR	468-3,250 ft
ML	468-3,256 ft
FDC/GR	468-3,256 ft
DM	468-3,254 ft

Samples:

Cuttings 0-3,250 ft (incomplete)

GULF REFINING CO.

Dennison-Federal No. 1

API no.: 27-033-05007

Permit no.: 2

Location: NE¼NW¼SW¼ sec. 20, T26N, R70E
2,203 ft from south line, 997 ft from west line

Elevation: 5,492 ft

Completed: Mar. 1, 1954

Status: P & A

Depth: 4,498 ft

Tops:

2,215 ft	Permian Gerster-Phosphoria Ls.
3,245 ft	sts.
3,330 ft	ls.
3,350 ft	sh.
3,540 ft	dol.
3,860 ft	ls.
4,030 ft	dol.

Logs:

Lithologic	0-4,502 ft
ES	547-4,502 ft
GR/N	130-4,501 ft

Samples:

Cuttings 0-4,498 ft

Remarks: Fresh water zones at 3,540-3,675 ft and 4,135-4,350 ft. Core descriptions available at NBMG.

HARPER OIL CO.

Conoco Federal No. 19-1

API no.: 27-033-05251

Permit no.: 409

Location: NW¼NE¼ sec. 19, T13N, R62E
663 ft from north line, 2,429 ft from east line

Elevation: 5,785 ft

Completed: Oct. 17, 1985

Status: P & A

Depth: 4,912 ft

Tops:

Surface	Quaternary valley fill
447 ft	Tertiary volc.
692 ft	Tertiary cgl.
830 ft	Permian talus
943 ft	Permian Arcturus Fm.
2,377 ft	Permian Rib Hill Ss.
2,460 ft	Pennsylvanian Ely Ls.
2,766 ft	Mississippian Chainman Sh.

Logs:

Lithologic	78-4,912 ft
GR	4,300-4,890 ft
Cyberlook	2,000-3,200 ft
Directional	1,084-3,383 ft

Samples:

Cuttings 78-3,726 ft

Remarks: Oil shows, 2,940-3,020 ft, 3,340 ft, and 4,817-4,873. Sidetracked below 2,951 ft. Lost-circulation problems.

ILLIPAH PETROLEUM SYNDICATE

No. 1

API no.: 27-033-05055

Permit no.: WP1

Location: NE¼SE¼SW¼ sec. 11, T17N, R58E
1,100 ft from south line, 250 ft from east line

Elevation: 6,200 ft

Completed: Dec. 15, 1920

Status: P & A

Depth: 929 ft

Tops:

Surface Mississippian Chainman Sh.

Logs:

Lithologic 0-929 ft

Remarks: Gas show at 94-95 ft, oil shows at 395-445 ft and at 895 ft. See Lintz (1957a, p. 61-62).

ILLIPAH PETROLEUM SYNDICATE

No. 2

API no.: 27-033-05056

Permit no.: WP2

Location: E½SE¼SE¼ sec. 11, T17N, R58E
560 ft from south line, 360 ft from east line

Elevation: 6,200 ft

Completed: Oct. 10, 1926

Status: P & A

Depth: 1,572 ft

Tops:

Surface Mississippian Chainman Sh.

Logs:

Lithologic 0-1,572 ft

Remarks: Oil shows at 684-688 ft and 1,151-1,560 ft. Oil and gas show at 401-402 ft, and a gas show at 250-252 ft. See Lintz (1957a, p. 62-63).

ILLIPAH PETROLEUM SYNDICATE

No. 3

API no.: 27-033-05057

Permit no.: WP4

Location: E½SE¼SE¼ sec. 11, T17N, R58E
560 ft from south line, 388 ft from east line

Elevation: 6,200 ft

Completed: Sept. 19, 1928

Status: P & A

Depth: 678 ft

Tops:

Surface Mississippian Chainman Sh.

Remarks: Oil show at 664-678 ft, oil and gas shows at 507-527 ft, and at 400-403 ft.

ILLIPAH PETROLEUM SYNDICATE

No. 4

API no.: 27-033-05058

Permit no.: WP3

Location: E½SE¼SE¼ sec. 11, T17N, R58E
560 ft from south line, 400 ft from east line

Elevation: 6,200 ft

86

DL/N 780-4,959 ft
GR/FDL 800-7,561 ft
DM 820-7,577 ft

Samples:

Cuttings 70-7,588 ft

Remarks: Several oil shows, 6,194-6,340 ft. Oil and gas show in DST at 6,175-6,303 ft. Alternative Tops data are: 3,000 ft—Garrett Ranch Volc., 4,000 ft—fanglomerate, 4,390 ft—slide block or mud flow, 4,530 ft—vitric tuff, and 4,975 ft—Sheep Pass Fm.

PLACID OIL CO.

Steptoe Federal No. 17-14

API no.: 27-033-05249

Permit no.: 397

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, T24N, R64E
500 ft from south line, 2,100 ft from west line

Elevation: 5,863 ft

Completed: Oct. 31, 1984

Status: P & A

Depth: 11,700 ft

Tops:

Surface	Quaternary valley fill
3,100 ft	Tertiary welded tuffs
7,030 ft	ls.

Logs:

Lithologic	550-11,700 ft
DI	2,621-11,709 ft
CNL/FDC	2,621-11,706 ft
BHCS	2,621-11,703 ft
DLL/ML	7,900-9,011 ft

Samples:

Cuttings 145-11,700 ft

Remarks: Several oil shows below 6,500 ft.

PYRAMID OIL CO.

Jake's Wash No. 5

API no.: 27-033-05226

Permit no.: 221

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T14N, R60E
350 ft from south line, 350 ft from west line

Elevation: 6,450 ft

Completed: Nov. 27, 1977

Status: P & A

Depth: 1,665 ft

Remarks: This well was abandoned due to severe fishing and caving problems.

RAM RESOURCES, INC.

Long Jevity Federal No. 1

API no.: 27-033-05254

Permit no.: 437

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T22N, R58E
660 ft from south line, 660 ft from west line

Elevation: 6,162 ft

Completed: Aug. 9, 1985

Status: P & A

Depth: 10,346 ft

Tops:

466 ft	Tertiary volc.
2,900 ft	Mississippian Chainman Sh.
3,815 ft	Mississippian Joana Ls.
4,456 ft	Mississippian Pilot Sh.
4,736 ft	Devonian Guilmette Ls.
6,320 ft	Devonian Simonson Dol.
7,068 ft	Devonian Sevy Dol.
8,550 ft	Silurian Laketown Dol.
9,490 ft	Ordovician Fish Haven Dol.

9,905 ft	Breccia zone (fault/unconformity)
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9,997 ft	Unnamed ls.
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Logs:

Lithologic	126-10,346 ft
FIL	4,102-10,341 ft
BHCS	120-10,324 ft
CNL/FDC	2,050-10,324 ft
DLL	120-10,343 ft
DM	2,062-10,341 ft
TS	137-7,839 ft

Samples:

Cuttings	126-10,346 ft
Core	2,039-2,056 ft

Remarks: Oil shows reported, the best of which were in the Chainman Sh.

RAM RESOURCES, INC.

Long Shot Federal No. 1

API no.: 27-033-05255

Permit no.: 438

Location: center, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, T22N, R58E
660 ft from south line, 1,980 ft from west line

Elevation: 6,101 ft

Completed: Sept. 9, 1985

Status: P & A

Depth: 4,577 ft

Tops:

800 ft	Tertiary volc.
1,782 ft	Pennsylvanian Ely Ls.
2,351 ft	Mississippian Diamond Peak Fm.
3,290 ft	Mississippian Chainman Sh.

Logs:

Lithologic	84-4,577 ft
DM	1,012-4,568 ft
CNL/FDC	1,008-4,564 ft
BHCS	37-4,552 ft
DLL	1,008-4,568 ft

Samples:

Cuttings	84-4,577 ft
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Remarks: Several oil shows, especially at 3,350-3,360 ft and 3,970 ft to TD.

RIGGS, HARRY

Robber's Roost No. 28-76

API no.: 27-033-05060

Permit no.: 104

Location: center, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T20N, R59E
1,994 ft from south line, 655 ft from east line

Elevation: 6,433 ft

Completed: June 2, 1967

Status: P & A

Depth: 6,428 ft

Logs:

Lithologic	70-6,428 ft
IES	68-6,425 ft
FDL/GR	68-6,426 ft
DM	68-6,422 ft

Remarks: Several oil shows reported.

ROSS, DWIGHT M.

Federal No. 1

API no.: 27-033-05200

Permit no.: 110

Location: E $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T11N, R63E
660 ft from south line, 460 ft from east line

Elevation: 6,500 ft

Completed: Aug. 3, 1967

WHITE PINE COUNTY (continued)

Status: P & A
Depth: 5,016 ft
Tops:

Surface	valley fill
3,370 ft	Sheep Pass Fm.
4,800 ft	Ely Ls.

Logs:
IES 326-5,015 ft

SHELL OIL CO.

Steptoe Unit No. 1

API no.: 27-033-05225

Permit no.: 177

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T24N, R64E
1,098 ft from north line, 600 ft from east line

Elevation: 5,864 ft

Completed: Apr. 13, 1976

Status: P & A

Depth: 8,406 ft

Tops:

2,631 ft	Tertiary volc.
6,870 ft	Paleozoic

Logs:

CNL/FDC	1,998-8,407 ft
DIL	507-8,402 ft
GR/FDC	1,998-8,407 ft
TS	2,040-8,406 ft
PL	2,040-8,404 ft

Samples:

Cuttings 16-8,406 ft

Remarks: Palynology report available at NBMG.

STANDARD OIL CO. OF CALIFORNIA

County Line Unit No. 1

API no.: 27-033-05000

Permit no.: 35

Location: center, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T10N, R62E
673 ft from north line, 680 ft from west line

Elevation: 5,486 ft

Completed: Aug. 28, 1957

Status: P & A

Depth: 4,850 ft

Tops:

Surface	Quaternary valley fill
1,475 ft	Tertiary volc.
2,375 ft	Eocene Sheep Pass Fm.
4,445 ft	Pennsylvanian Ely Ls.

Logs:

Lithologic	400-4,850 ft
DM	710-4,698 ft
ES	568-4,808 ft
ML	568-4,806 ft
GR/N	568-4,805 ft

Samples:

Cuttings 0-4,850 ft

Remarks: Oil shows were reported at 3,848-4,015 ft and 4,064-4,086 ft. A gas show was reported on DST at 4,310-4,350 ft. Source-rock analysis is available at NBMG. See McJannet and Clark (1960a).

STANDARD-CONOCO

Hayden Creek Unit No. 1

API no.: 27-033-05003

Permit no.: WP6

Location: center, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, T15N, R59E

Elevation: 7,361 ft

Completed: May 15, 1951

Status: P & A

Depth: 5,117 ft

Tops:

Surface	Pennsylvanian Ely Ls.
1,586 ft	Mississippian lower Diamond Peak Fm.
2,558 ft	Mississippian Chainman Sh.
3,895 ft	Mississippian Joana Ls.
4,145 ft	Mississippian Pilot Sh.
4,428 ft	Devonian Nevada ls.

Logs:

Lithologic 0-5,117 ft

Samples:

Cuttings 50-4,050 ft
Core 548-5,119 ft (incomplete)

Remarks: Oil shows were found at 1,550-1,554 ft, 2,221-2,226 ft, 2,400-2,404 ft, 3,790-3,795 ft, and 4,038-4,039 ft (Lintz, 1957a, p. 46-47). Source-rock analysis is available at NBMG. See McJannet and Clark (1960b).

STANDARD-CONOCO

Meridian Unit No. 1

API no.: 27-033-05004

Permit no.: WP5

Location: SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T16N, R56E
1,680 ft from south line, 3,980 ft from west line

Elevation: 6,401 ft (at DF)

Completed: Nov. 20, 1950

Status: P & A

Depth: 10,314 ft

Tops:

Surface	Mississippian Chainman Sh.
3,597 ft	Mississippian Joana Ls.
3,675 ft	Mississippian Pilot Sh.
3,963 ft	Devonian Nevada ls.
7,943 ft	Silurian Lone Mountain Dol.
10,153 ft	Ordovician Hanson Creek Dol.

Logs:

Lithologic 17-10,314 ft
ES 465-10,312 ft

Samples:

Cuttings 17-10,305 ft

Remarks: Oil shows were reported at 2,272-2,486 ft and 6,419-6,433 ft. A gas show was noted at 8,327-8,342 ft. Chainman and Pilot Shales source-rock analyses are available at NBMG. See McJannet and Clark (1960b).

STANDARD-CONOCO

Summit Springs Unit No. 1

API no.: 27-033-05006

Permit no.: WP7

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, T20N, R60E

Elevation: 7,260 ft (at DF)

Completed: June 12, 1952

Status: P & A

Depth: 11,543 ft

Tops:

Surface	Permian Arcturus Fm.
8,372 ft	Permian Wolfcampian Series
8,540 ft	Pennsylvanian Ely Ls.
10,985 ft	Mississippian lower Diamond Peak Fm.

Logs:

Lithologic 0-11,543 ft
GR/N 0-11,535 ft

Samples:

Cutting 300-11,440 ft
Core 532-11,543 ft (incomplete)

Remarks: Numerous oil and gas shows were reported on this well. Source-rock analysis is available at NBMG. See McJannet and Clark (1960b).

SUNTIDE PETROLEUM, INC.

Nevada Federal "A" No. 1

API no.: 27-033-05005

Permit no.: 74

Location: center, W½NW¼SW¼ sec. 23, T18N, R57E

Elevation: 6,588 ft

Completed: Sept. 2, 1964

Status: P & A

Depth: 7,980 ft

Tops (from PI):

1,132 ft	Pennsylvanian Ely Ls.
1,248 ft	Mississippian Chainman Sh.
2,823 ft	Mississippian Joana Ls.
2,982 ft	Devonian Guilmette Ls.
3,882 ft	Devonian Simonson Dol.
5,258 ft	Devonian Sevy Dol.
6,112 ft	Silurian Laketown Dol.
7,300 ft	Ordovician Fish Haven Dol.
7,816 ft	Ordovician Eureka Qtz.

Logs:

GR/N	40-7,983 ft
LL	3,383-7,973 ft
S/Cal	3,385-7,978 ft

Samples:

Cuttings	1,350-4,941 ft
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Remarks: Water zone at 140-308 ft tested to 45 GPM with fluid level at 170 ft. Source-rock analysis available at NBMG.

SUNTIDE PETROLEUM, INC.

Nevada Federal No. 1

API no.: 27-033-05002

Permit no.: 53

Location: SE¼NW¼NE¼ sec. 5, T15N, R57E

665 ft from north line, 1,880 ft from east line

Elevation: 6,675 ft at KB

Completed: Apr. 28, 1961

Status: P & A

Depth: 2,681 ft

Tops (from PI):

Surface	Pennsylvanian Ely Ls.
400 ft	Mississippian Chainman Sh.
1,550 ft	Devonian Guilmette Ls.
2,050 ft	Devonian Simonson Dol.

Logs:

Lithologic	0-2,681 ft
IES	310-1,068 ft
S	50-1,100 ft

Remarks: Fresh water at 360-470 ft.

TANNEHILL OIL CO.

Federal N6509 No. 1

API no.: 27-033-05232

Permit no.: 235

Location: center, SW¼SW¼ sec. 10, T19N, R57E

660 ft from south line, 660 ft from west line

Elevation: 6,229 ft

Completed: Sept. 13, 1978

Status: Water well

Depth: 677 ft

Samples:

Cuttings	0-677 ft (incomplete)
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Remarks: Formerly TransOcean Oil, Inc. Fresh water horizon in Ely Ls.

TANNEHILL OIL CO.

Federal N6509 No. 2

API no.: 27-033-05234

Permit no.: 243

Location: SE¼SW¼ sec. 10, T19N, R57E

804 ft from south line, 2,184 ft from west line

Elevation: 6,281 ft

Completed: Oct. 25, 1978

Status: Water well

Depth: 3,003 ft

Tops (from PI):

1,729 ft	Chainman Sh.
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Logs:

Lithologic	700-3,003 ft
DI	310-2,991 ft
Cal	315-1,874 ft
Velocity	310-1,841 ft

Samples:

Cuttings	1,956-3,003 ft
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Remarks: Core and source-rock analyses are available at NBMG. Fresh water horizon in the Ely Ls.

TENNECO OIL CO.

GB Core Hole No. 2

API no.: 27-033-05207

Permit no.: 141

Location: center, NE¼SW¼ sec. 34, T22N, R59E

1,980 ft from south line, 1,980 ft from west line

Elevation: 6,750 ft

Completed: June 3, 1970

Status: P & A

Depth: 365 ft

095Tops:

Surface	alluvium
48 ft	Mississippian Diamond Peak Fm. (to TD)

Logs:

Lithologic	0-365 ft
ES/GR	0-245 ft

Samples:

Cuttings	0-365 ft
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Remarks: Water was encountered at 250 ft. Source-rock analysis is available at NBMG.

TENNECO OIL CO.

GB Core Hole No. 3

API no.: 27-033-05208

Permit no.: 142

Location: SE¼SE¼SW¼ sec. 25, T21N, R60E

175 ft from south line, 2,350 ft from west line

Elevation: 6,360 ft

Completed: June 20, 1970

Status: P & A

Depth: 956 ft

Tops:

Surface	Quaternary alluvium
20 ft	Pennsylvanian Ely Ls.
250 ft	Mississippian Diamond Peak Fm.

Logs:

Lithologic	0-956 ft
ES/GR	5-951 ft

Samples:

Cuttings	0-950 ft
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Remarks: Water was encountered at 330 ft and at 630 ft. Source-rock analysis is available at NBMG.

TENNECO OIL CO.

GB Core Hole No. 4

API no.: 27-033-05209

WHITE PINE COUNTY (continued)

Permit no.: 143

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T19N, R61E

2,310 ft from north line, 2,310 ft from east line

Elevation: 6,580 ft

Completed: July 1, 1970

Status: P & A

Depth: 712 ft

Tops:

20 ft Pennsylvanian Ely Ls.(TD)

Logs:

Lithologic 0-705 ft

ES/GR 0-690 ft

Samples:

Cuttings 0-520 ft

Cuttings 644-648 ft

Cuttings 710-712 ft

TENNECO OIL CO.

GB Core Hole No. 6

API no.: 27-033-05202

Permit no.: 134

Location: center, NE $\frac{1}{4}$ sec. 32, T18N, R58E

Elevation: 7,600 ft

Completed: May 25, 1970

Status: P & A

Depth: 920 ft

Tops:

Surface Mississippian Chainman Sh.(TD)

Logs:

Lithologic 0-920 ft

ES/GR 0-901 ft

Samples:

Cuttings 10-920 ft

Remarks: Water was encountered at 105 ft flowing 173 GPM.

Source-rock analysis is available at NBMG.

TENNECO OIL CO.

GB Core Hole No. 9

API no.: 27-033-05203

Permit no.: 135

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T13N, R61E

2,620 ft from north line, 200 ft from west line

Elevation: 5,960 ft

Completed: Aug. 9, 1970

Status: P & A

Depth: 1,234 ft

Tops:

Surface Quaternary alluvium
20 ft Pennsylvanian Ely Ls.
703 ft Mississippian Chainman Sh. and
 Diamond Peak Fm.

Logs:

Lithologic 0-1,234 ft

ES/GR 0-1,145 ft

GR/N 100-1,228 ft

Samples:

Cuttings 0-1,234 ft

Remarks: Water was encountered at 214 ft. Source-rock analysis available at NBMG.

TENNECO OIL CO.

Illipah Federal No. 1

API no.: 27-033-05062

Permit no.: 109

Location: N $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T18N, R58E

2,025 ft from south line, 660 ft from east line

Elevation: 7,520 ft

Completed: Aug. 21, 1967

Status: P & A Depth: 7,620 ft

Tops (from PI):

Surface	Mississippian Chainman Sh.
970 ft	Mississippian Joana Ls.
?	Devonian Guilmette Ls.
3,400 ft	Devonian Simonson Dol.
5,350 ft	Devonian Sevy Dol.
6,100 ft	Silurian Laketown Dol.
6,790 ft	Ordovician Fish Haven Dol.
7,400 ft	Ordovician Eureka Qtz.

Logs:

GR/FDC 986-7,606 ft

BHCS 1,600-7,605 ft

DM 1,500-3,162 ft

SNP 986-7,606 ft

DIL 993-3,676 ft

Remarks: Source-rock analysis is available at NBMG.

TEXAS AMERICAN OIL CORP.

Jake's Wash Unit No. 2A

API no.: 27-033-05221

Permit no.: 172

Location: center, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T14N, R60E

1,980 ft from south line, 1,980 ft from east line

Elevation: 6,550 ft

Completed: Apr. 2, 1975

Status: P & A

Depth: 3,742 ft

Tops (from PI):

950 ft Pennsylvanian Ely Ls.

Logs:

GR/N 950-3,075 ft

Samples:

Cuttings 956-3,720 ft

Remarks: Located 80 ft northwest of George G. Witter, Jr., Jake's Wash Unit No. 2.

TEXAS AMERICAN OIL CORP.

Jake's Wash Unit No. 3

API no.: 27-033-05222

Permit no.: 173

Location: center, N $\frac{1}{2}$ NW $\frac{1}{4}$ sec. 9, T14N, R61E

660 ft from north line, 1,320 ft from west line

Elevation: 6,210 ft

Completed: July 16, 1975

Status: D & A

Depth: 271 ft

Remarks: Junk in hole.

TRUE OIL CO.

Hendrickson Federal No. 43-35

API no.: 27-033-05258

Permit no.: 441

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T14N, R61E

1,982 ft from south line, 560 ft from east line

Elevation: 5,974 ft

Completed: July 11, 1985

Status: P & A

Depth: 3,250 ft

Tops:

558 ft Ely Ls.
2,058 ft Chainman Sh.

Logs:

Lithologic 0-3,250 ft

DM 1,850-3,241 ft

BHCS 510-3,210 ft

DIL 501-3,241 ft
Samples:
Cuttings 0-3,250 ft (incomplete)

TRUE OIL CO.

Langley Federal No. 14-28

API no.: 27-033-05259

Permit no.: 444

Location: SW 1/4 SW 1/4 sec. 28, T13N, R61E

658 ft from south line, 661 ft from west line

Elevation: 5,927 ft

Completed: July 19, 1985

Status: P & A

Depth: 2,830 ft

Tops:

Surface Quaternary valley fill
150(?) ft Tertiary volc.

Logs:

Lithologic 0-1,697 ft

DIL 0-612 ft

Samples:

Cuttings 0-300 ft

Cuttings 330-510 ft

Cuttings 550-1,260 ft

TRUE OIL CO.

Panos Federal No. 44-33

API no.: 27-033-05256

Permit no.: 439

Location: SE 1/4 SE 1/4 sec. 33, T14N, R61E

561 ft from south line, 559 ft from east line

Elevation: 6,047 ft

Completed: June 11, 1985

Status: P & A

Depth: 1,442 ft

Tops:

Surface Valley fill
680 ft Pennsylvanian Ely Ls.

Logs:

Lithologic 0-1,391 ft

Samples:

Cuttings 0-300 ft

Cuttings 310-740 ft

Cuttings 770-1,390 ft

TRUE OIL CO.

Pon Federal No. 44-14

API no.: 27-033-05257

Permit no.: 440

Location: SE 1/4 SE 1/4 sec. 14, T14N, R61E

661 ft from south line, 517 ft from east line

Elevation: 6,139 ft

Completed: July 11, 1985

Status: P & A

Depth: 464 ft

Tops:

405 ft Pennsylvanian Ely Ls.

Samples:

Cuttings 0-440 ft

TRUE OIL CO.

Roark Federal No. 12-10

API no.: 27-033-05263

Permit no.: 474

Location: SW 1/4 NW 1/4 sec. 10, T13N, R61E

1,978 ft from north line, 666 ft from west line

Elevation: 6,064 ft

Completed: June 17, 1986

Status: P & A
Depth: 2,600 ft (?)

Tops (from PI):

100 ft	Pennsylvanian Ely Ls.
1,162 ft	Mississippian Chainman Sh.
1,295 ft	Mississippian Diamond Peak #2 (?)
1,532 ft	Mississippian Diamond Peak #3 (?)
2,600 ft	Mississippian Joana Ls.

Logs:

Lithologic	0-2,600 ft
DI	925-2,418 ft
FDL/CNL	925-1,750 ft

Samples:

Cuttings 0-1,040 ft

Remarks: Lost circulation at approximately 1,040 ft and no returns thereafter.

TRUE OIL CO.

Roark Federal No. 13-11

API no.: 27-033-05264

Permit no.: 475

Location: NW 1/4 SW 1/4 sec. 11, T13N, R61E

3,300 ft from north line, 660 ft from west line

Elevation: 5,949 ft

Completed: May 30, 1986

Status: P & A

Depth: 2,400 ft

Tops:

Surface	Pennsylvanian Ely Ls.
1,650 ft	Mississippian Chainman Sh./ Diamond Peak Cgl.

Logs:

Lithologic	100-2,404 ft
CNL/FDC	312-2,401 ft
DI	312-2,398 ft

Samples:

Cuttings 370-2,400 ft

Remarks: Several oil shows were reported on lithologic log.

TRUE OIL CO.

Shields Federal No. 13-22

API no.: 27-033-05260

Permit no.: 460

Location: NW 1/4 SW 1/4 sec. 22, T13N, R61E

2,250 ft from south line, 400 ft from west line

Elevation: 5,929 ft

Completed: Feb. 19, 1986

Status: P & A

Depth: 9,125 ft

Tops:

Surface	Quaternary valley fill
800 ft	Mississippian Chainman Sh.
2,370 ft	Mississippian Joana Ls.
2,733 ft	Devonian Pilot Sh.
2,890 ft	Devonian Guilmette Ls.
4,850 ft	Devonian Simonson Dol.
5,378 ft	Silurian Laketown Dol.
6,809 ft	Ordovician Fish Haven Dol.
7,068 ft	major fault
7,068 ft	Ordovician Pogonip Ls.(to TD)

Logs:

Lithologic	2,000-9,128 ft
TS	500-9,122 ft
DLL	2,024-9,110 ft
CNL/FDC	2,024-4,254 ft
BCHS	4,232-7,494 ft

Samples:

Cuttings 60-9,125 ft

Remarks: Reports of minor oil shows.

WHITE PINE COUNTY (continued)

WITTER, GEORGE G., JR.

Jake's Wash Unit No. 1

API no.: 27-033-05211

Permit no.: 152

Location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T14N, R61E
589 ft from south line, 1,937 ft from west line

Elevation: 6,180 ft

Completed: Oct. 21, 1971

Status: P & A

Depth: 2,603 ft

Tops:

1,850 ft

Mississippian Diamond Peak Fm.

Remarks: Water flow at 660 ft.

WITTER, GEORGE G., JR.

Jake's Wash Unit No. 2

API no.: 27-033-05215

Permit no.: 160

Location: center, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T14N, R60E
1,980 ft from south line, 1,980 ft from east line

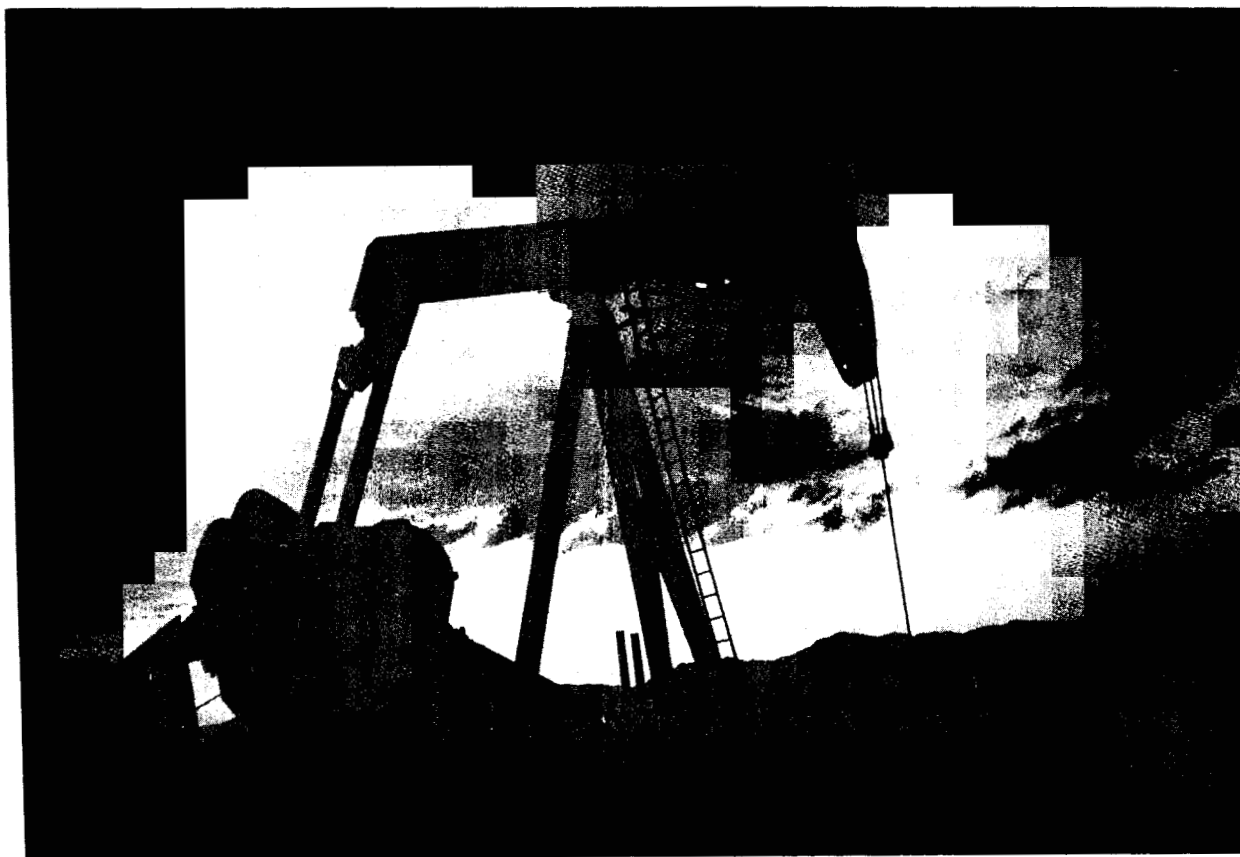
Elevation: 6,550 ft

Completed: Jan. 27, 1975

Status: P & A

Depth: 696 ft

Remarks: Severe caving problems; junk in hole. See nearby
Texas American Oil Corp. Jakes Wash Unit No. 2A.



Trap Spring oil field, Railroad Valley, Nye County. Nevada Department of Minerals photo.

APPENDIX 1.—Wells listed by state permit number

Permit number	Operator and well	County	Permit number	Operator and well	County
CH1	FALLON UNION OIL CO. No. 1	Churchill	LA1	NEWMAN, CARL Austin No. 1	Lander
CH2	FALLON PIONEER OIL CO. No. 1	Churchill	LA2	VOORHEES, JESS H. No. 6 S	Lander
CH3	FALLON OIL & GAS CO. No. 1	Churchill	LA3	VOORHEES, JESS H. No. 5 S	Lander
CH4	FALLON OIL & GAS CO. No. 2	Churchill	LA4	VOORHEES, JESS H. No. 4 S	Lander
CH5	FALLON OIL & GAS CO. No. 1-A	Churchill	LA5	VOORHEES, JESS H. No. 3 S	Lander
CH6	FALLON OIL & GAS CO. No. 2-A	Churchill	LA6	VOORHEES, JESS H. No. 2 S	Lander
CH7	COUNCIL OIL CO. No. 1	Churchill	LA7	VOORHEES, JESS H. No. 1 S	Lander
CH8	FALLON NEVADA OIL CO. No. 1	Churchill	LA8	VOORHEES, JESS H. No. 1 Fee Well	Lander
CH9	HART, E. W. No. 1	Churchill	LA9	VOORHEES, JESS H. No. 2 Fee Well	Lander
CH10	FALLON EXTENSION OIL & GAS CO. No. 1	Churchill	LA10	NEVADA OIL & GAS CO. Government No. 1	Lander
CH11	DIAMOND OIL CO. No. 1	Churchill	LY1	YERINGTON OIL & GAS CO.	Lyon
CH12	SYNDICATE OIL CO. No. 1	Churchill	LY2	NEVADA COAL & OIL CO.	Lyon
CH13	CALNEVA OIL CO. Way Bros. No. 1	Churchill	NY1	PIERCE, R. C. Halstead No. 1	Nye
CH14	LAHONTAN OIL SYNDICATE No. 1	Churchill	NY2	W.C. CO. No. 1-X	Nye
CL1	HALL CO. FRANK No. 1	Clark	WA1	WASHOE OIL & DEVELOPMENT CO. No. 1	Washoe
CL2	HATFIELD, L. M. No. 1	Clark	WA2	UNKNOWN Peavine Mountain Well	Washoe
CL3	GOODSPRINGS OIL CO. No. 1	Clark	WP1	ILLIPAH PETROLEUM SYNDICATE No. 1	White Pine
CL4	BANNISTER, E. W. No. 1	Clark	WP2	ILLIPAH PETROLEUM SYNDICATE No. 2	White Pine
CL5	COMMONWEALTH OIL CO. No. 1	Clark	WP3	ILLIPAH PETROLEUM SYNDICATE No. 4	White Pine
CL6	RED STAR OIL CO. J. B. Nelson No. 1	Clark	WP4	ILLIPAH PETROLEUM SYNDICATE No. 3	White Pine
CL7	RED STAR OIL CO. (J. B. NELSON) J. B. Nelson No. 2	Clark	WP5	STANDARD-CONOCO Meridian Unit No. 1	White Pine
CL8	NEW HAVEN OIL CO. No. 1	Clark	WP6	STANDARD-CONOCO Hayden Creek Unit No. 1	White Pine
CL9	NEW HAVEN OIL CO. No. 2	Clark	WP7	STANDARD-CONOCO Summit Springs Unit No. 1	White Pine
CL10	NEW HAVEN OIL CO. No. 3	Clark	1	LAST FRONTIER OIL CO. Damele No. 1	Eureka
CL11	NEW HAVEN OIL CO. No. 4	Clark	2	GULF REFINING CO. Dennison-Federal No. 1	White Pine
CL12	NEW HAVEN OIL CO. No. 5	Clark	3	GULF REFINING CO. Wilkins Ranch No. 1	Elko
CL13	NEW HAVEN OIL CO. No. 6	Clark	4	SHELL OIL CO. Eagle Springs Unit No. 1-35	Nye
CL14	PERMIAN OIL CO. Schwartz No. 1	Clark	5	GULF REFINING CO. Thousand Springs No. 1	Elko
CL15	NEVADA EXPLORATION CO. Porter No. 1	Clark	6	INLAND OIL CO. Itcaina No. 1	Elko
CL16	UNITED PETROLEUM CORP. Apex No. 1	Clark	7	INTERMOUNTAIN ASSOCIATES, INC. No. 2 (Jean)	Clark
CL17	G AND G EXPLORATION CO. No. 1	Clark	8	INTERMOUNTAIN ASSOCIATES, INC. Arden Dome No. 1 (No. 1-X)	Clark
CL18	IWING, JOSEPH & ASSOCIATES Petresia No. 1	Clark	9	INLAND OIL CO. Itcaina No. 2	Elko
CL19	SOUTHERN NEVADA OIL INVESTORS CO. (POZIL, JOHNSON, AND KRUG) Apex No. 1	Clark	10	SHELL OIL CO. Eagle Springs Unit No. 2	Nye
CL20	LAST CHANCE OIL CO. Crystal No. 1	Clark	11	SHELL OIL CO. Eagle Springs Unit No. 3	Nye
CL21	McAULEY ASSOCIATES No. 2	Clark	12	GULF REFINING CO. Pete Itcaina No. 1	Elko
CL22	WILSON, L. R. Government No. 1	Clark	13	SOUTHERN GREAT BASIN OIL & GAS, INC. Government No. 1	Clark
CL23	McAULEY ASSOCIATES No. 1	Clark	14	GULF REFINING CO. Wilkins Ranch No. 2	Elko
CL24	BIG BASIN OIL CO. Government No. 1	Clark	15	BANDINI PETROLEUM CO. Harris Government No. 1	Nye
CL25	WILSON, L. R. Government No. 1-A	Clark	16	GULF REFINING CO. Mary's River Federal No. 1	Elko
CL26	BLACK GOLD OIL AND GAS EXPLORATION CO. INTERMOUNTAIN ASSOCIATION No. 1 (Golden Spike)	Clark	17	SHELL OIL CO. Eagle Springs Unit No. 35-35	Nye
CL27	MATADOR OIL CO. No. 29-1X	Clark	18	SHELL OIL CO. Lockes Unit No. 1	Nye
CL28	BRAY, OSCAR No. 1	Clark	19	EBERT, JAMES & NEPPLE, EDWARD Government No. 1	Eureka
CL29	SASTEX OIL & GAS Jones No. 1	Clark	20	SHELL OIL CO. Eagle Springs Unit No. 58-26	Nye
EL1	DR. EBY	Elko	21	SHELL OIL CO. Eagle Springs Unit No. 15-35	Nye
EL2	MERRITT ARMSTRONG WELL	Elko	22	SHELL OIL CO. Coyote Unit No. 1	Nye
EL3	BULL RUN OIL & GAS CO. No. 1	Elko	23	U.S. OIL CO. (MATADOR OIL CO.) Wilson No. 1X	Clark
EL4	ELKO OIL & DEVELOPMENT IMPROVEMENT CO. No. 1	Elko	24	RICHFIELD OIL CORP. Rabbit Creek Unit No. 1	Elko
EL5	WESTERN OSAGE OIL, INC. Government No. 1	Elko	25	SHELL OIL CO. Eagle Springs Unit No. 4	Nye
EL6	McCARATHY OIL CO. Rahas No. 1	Elko	26	BLALACK DRILLING CO. Voorhees No. 1	Lander
EL7	GULF REFINING CO. Dolly Varden Unit No. 1	Elko	27	SHELL OIL CO. Eagle Springs Unit No. 17-34	Nye
EL8	LAST FRONTIER OIL CO. Government No. 1	Elko	28	MOAPA NEVADA OIL & GAS CO. Logandale No. 1	Clark
EL9	DIAMOND OIL CO. Diamond Valley No. 1	Elko	29	SHELL OIL CO. Diamond Valley Unit No. 1	Eureka
EL10	DIAMOND OIL CO. Diamond Valley No. 2	Elko	30	WEST END OPETECA Federal U.S. No. 28-1	Nye
EL11	DIAMOND OIL CO. Diamond Valley No. 3	Elko	31	SMITHDEAL, W. T., JR. U.S. Lease No. 1	Clark
EL12	INLAND OIL CO. Itcaina No. 3	Elko	32	RICHFIELD OIL CORP. Scott-Ogilvie No. 1	Elko
EL13	DIAMOND OIL CO. Conquest No. 1	Elko	33	BROWN, JOE W. Wilson No. 1	Clark
ES1	CALIFORNIA EXCELSIOR CO. McNett Ranch No. 1	Esmeralda	34	BONANZA OIL CO. Arden Dome No. 1 (Consolidated Government No. 1)	Clark
ES2	FISH LAKE MERGER OIL CO. No. 1	Esmeralda	35	STANDARD OIL CO. OF CALIFORNIA County Line Unit No. 1	White Pine
ES3	FISH LAKE OIL CO. Coaldale Well	Esmeralda			
EU1	EUREKA OIL & GAS COMPANY Pine Valley No. 1	Eureka			
HU1	WESTERN PACIFIC RAILROAD CO. Sulphur-M.P. 474.67	Humboldt			
HU2	BLACK ROCK OIL, GAS, REFINING & DEVELOPMENT CO., No 1	Humboldt			

continued

APPENDIX 1.—Wells listed by state permit number (continued)

Permit number	Operator and well	County	Permit number	Operator and well	County
36	MID-CENTRAL DRILLING CO. Orwitz No. 1	Lander	86	WESTERN OIL LANDS, INC. Pennington-Federal No. 4	Nye
37	*COLMARRAN OIL PRODUCTS CO. No. 6-1	Clark	87	ROSEN OIL CO. Muddy Dome No. 1	Clark
38	SHELL OIL CO. Bowl of Fire Unit No. 1	Clark	88	TEXOTA OIL CO. Eagle Springs Unit No. 45-36	Nye
39	TRI-STATE OIL EXPLORATION CO. Miskell-Gov't No. 1	Clark	89	*TEXOTA OIL CO. Eagle Springs Unit No. 11-36	Nye
40	CHURCHILL DRILLING CORP. Reggie No. 1	Churchill	90	GULF OIL CORP. OF CALIFORNIA Nevada-Federal "A" No. 1	White Pine
41	TRANS-WORLD OIL CO. Houssels-Wilson-Milka No. 1	Clark	91	GRIMM, JACK F. (MINERALS DRILLING INC.) Wilson No. 1	Clark
42	*TRANS-WORLD OIL CO. Wilson Associates No. 1	Clark	92	GULF OIL CORP. OF CALIFORNIA Nevada-Federal "O" No. 2	White Pine
43	BEYERBACK, CHARLES (Moab Drilling Company) No. 1	Eureka	93	GULF OIL CORP. OF CALIFORNIA Nevada-Federal "BS" No. 1	White Pine
44	CHURCHILL DRILLING CORP. Stewart No. 1	Churchill	94	WESTERN OIL LANDS, INC. Pennington-Federal No. 5	Nye
45	CHURCHILL DRILLING CORP. Ernst No. 1	Churchill	95	GULF OIL CORP. Nevada-Federal CM No. 1	Lincoln
46	SHELL OIL CO. Eagle Springs Unit No. 62-35	Nye	96	TEXOTA OIL CO. Eagle Springs Unit No. 41-36	Nye
47	CHURCHILL DRILLING CORP. Ernst No. 2	Churchill	97	TEXOTA OIL CO. Eagle Springs Unit No. 17-35	Nye
48	SHELL OIL CO. Eagle Springs Unit No. 81-35	Nye	98	WESTERN OIL LANDS, INC. Pennington-Federal No. 6	Nye
49	CHURCHILL DRILLING CORP. Ernst No. 1-A	Churchill	99	GULF OIL CORP. Newark Valley Unit No. 1 (Nevada-Federal CG)	White Pine
50	CHURCHILL DRILLING CORP. Lima No. 1	Churchill	100	GULF OIL CORP. Cave Valley Unit Federal No. 1	Lincoln
51	LICHTENWALTER, S. J. & TURPIN, C. M. Turpin No. 1	Clark	101	PENNINGTON OIL PRODUCERS Pennington-Pan American No. 1	Nye
52	CHURCHILL DRILLING CORP. Evelyn No. 1	Churchill	102	EL PASO NATIONAL GAS CO. Long Valley No. 35-88	White Pine
53	SUNTIDE PETROLEUM, INC. Nevada Federal No. 1	White Pine	103	TRANS WESTERN LANDS, INC. Eagle Springs Unit Penn Tex No. 1	Nye
54	CHURCHILL DRILLING CORP. Barbara No. 1	Churchill	104	RIGGS, HARRY Robber's Roost No. 28-76	White Pine
55	NEVADA GAS LANDS, INC. Helen No. 1	Churchill	105	GULF OIL CORP. Nyala Unit No. 1	Nye
56	CHURCHILL DRILLING CORP. Williams No. 1	Churchill	106	GULF OIL CORP. Duck Unit No. 1	Nye
57	TAYLOR, JACK Government No. 1	Eureka	107	TEXOTA OIL CO. Eagle Springs Unit No. 1-34	Nye
58	NEVADA GAS LANDS, INC. Bono No. 11	Churchill	108	GULF OIL CORP. Duck Unit No. 2	Nye
59	SHELL OIL CO. Eagle Springs Unit No. 54-4	Nye	109	TENNECO OIL CO. Illipah Federal No. 1	White Pine
60	CHURCHILL DRILLING CORP. Churchill County No. 1	Churchill	110	ROSS, DWIGHT M. Federal No. 1	White Pine
61	CHURCHILL DRILLING CORP. T.C.I.D. No. 1	Churchill	111	GULF OIL CORP. Duck Unit No. 3	Nye
62	EQUALITY OIL CO. (ARDEN DOME OIL CO.) Chadek No. 1	Clark	112	*GULF OIL CORP. Duck Unit No. 4	Nye
63	SHELL OIL CO. Eagle Springs Unit No. 45-5	Nye	113	GULF OIL CORP. Anderson D. Federal No. 1	Nye
64	*NEVADA GAS LANDS, INC. B & G No. 3	Churchill	114	WESTERN OIL LANDS, INC. Pennington No. 8	Nye
65	TAYLOR, JACK Government No. 2	Eureka	115	PAN AMERICAN PETROLEUM CORP. U.S.A. Pan American No. 1	Nye
66	TAYLOR, JACK Government No. 3	Eureka	116	TEXOTA OIL CO. Eagle Springs Unit No. 2-34	Nye
67	*TAYLOR, JACK Government No. 4	Eureka	117	CARR AND WRATH, INC. Federal No. 1	Eureka
68	GULF OIL CORP. OF CALIFORNIA Owl Hill Federal No. 1	Elko	118	GULF OIL CORP. Gose "FQ" Federal No. 1	Nye
69	TEXOTA OIL CO. Eagle Springs Unit No. 73-35	Nye	119	GULF OIL CORP. Gose "DL" Federal No. 1	Nye
70	*PALAWAN OIL CO. No. 1	Eureka	120	GULF OIL CORP. OF CALIFORNIA Gose "DQ" Federal "A" No. 1	White Pine
71	TEXOTA OIL CO. Eagle Springs Unit No. 74-35	Nye	121	ASH, W.F. Damele Brothers No. 2	Eureka
72	THORPE, H. B. Carson Sink No. 1	Churchill	122	GULF OIL CORP. Nevada "DK" Federal No. 1	Nye
73	TEXOTA OIL CO. Eagle Springs Unit No. 85-35	Nye	123	PAN AMERICAN PETROLEUM CORP. Cobre Minerals Corp. No. 1	Elko
74	SUNTIDE PETROLEUM, INC. Nevada Federal "A" No. 1	White Pine	124	GULF OIL CORP. Gose "BZ" Federal "A" No. 1	Nye
75	EMPIRE STATE OIL CO. Government No. 1	White Pine	125	GULF OIL CORP. Gose "EU" Federal No. 1	Nye
76	WESTERN OIL LANDS, INC. Pennington-Federal No. 1	Nye	126	GULF OIL CORP. Gose "CD" Federal No. 1	Nye
77	TEXOTA OIL CO. Eagle Springs Unit No. 84-35	Nye	127	PAN AMERICAN PETROLEUM CORP. U.S.A. McDonald No. 1	Nye
78	EMPIRE STATE OIL CO. Government (Indian Springs) No. 1	White Pine	128	GULF OIL CORP. Russell-Federal No. 1	Nye
79	PEASE, WILLARD DRILLING CO. Federal No. 1	Lincoln	129	PENNINGTON, WM. N. AND WM. V. Pennington-Pan American Big Wash No. 1	Nye
80	WESTERN OIL LANDS, INC. Pennington-Federal No. 2	Nye	130	GULF OIL CORP. Standard of California Federal No. 1	Nye
81	GOSE, STEVE Government No. 1	Nye	131	MONTE CRISTO OIL CO. Wm. Wright No. 1	Esmeralda
81	WESTERN OIL LANDS, INC. Pennington No. 7	Nye	132	KAMARDEN OIL AND GAS LTD. KOG No. 1	Clark
82	WESTERN OIL LANDS, INC. Pennington-Federal No. 3	Nye	133	PHELPS, C.P. Phelps No. 1	Clark
83	TEXOTA OIL CO. Eagle Springs Unit No. 43-36	Nye	134	TENNECO OIL CO. GB Core Hole No. 6	White Pine
84	W. C. CO. No. 1	Nye	135	TENNECO OIL CO. GB Core Hole No. 9	White Pine
85	GULF OIL CORP. OF CALIFORNIA Nevada-Federal "O" No. 1	White Pine	136	TENNECO OIL CO. GB Core Hole No. 10-A	Nye
			137	*TENNECO OIL CO. GB Core Hole No. 11	White Pine

APPENDIX 1.—Wells listed by state permit number (continued)

Permit number	Operator and well	County	Permit number	Operator and well	County
138	TENNECO OIL CO. GB Core Hole No. 13	Lincoln	184	*NORTHWEST EXPLORATION CO. Trap Spring No. 46-27	Nye
139	*TENNECO OIL CO. GB Core Hole No. 15	White Pine	185	NORTHWEST EXPLORATION CO. Trap Spring No. 2	Nye
140	*TENNECO OIL CO. GB Core Hole No. 1	White Pine	186	GETTY OIL COMPANY Nost I No. 1	Eureka
141	TENNECO OIL CO. GB Core Hole No. 2	White Pine	187	*NORTHWEST EXPLORATION CO. Trap Spring No. 66-27	Nye
142	TENNECO OIL CO. GB Core Hole No. 3	White Pine	188	NORTHWEST EXPLORATION CO. Trap Spring No. 3	Nye
143	TENNECO OIL CO. GB Core Hole No. 4	White Pine	189	NORTHWEST EXPLORATION CO. Trap Spring No. 4	Nye
144	*TENNECO OIL CO. GB Core Hole No. 7-B	White Pine	190	*NORTHWEST EXPLORATION CO. Trap Spring No. 5	Nye
145	SANDIA INTERNATIONAL METALS CORP. Duff No. 1	Clark	191	*BURTON/HAWKS, INC. Duncan Federal No. 28-1	Nye
146	NEVADA OIL & MINERALS, INC. V.R.S. No. 1	Esmeralda	192	*BURTON/HAWKS, INC. Duncan Federal No. 33-1	Nye
147	PAN AMERICAN PETROLEUM CORP. U.S.A. Franklin No. 1	Elko	193	CHADCO, INC. Pennington No. 22-1	Nye
148	TIME PETROLEUM INC. Federal No. 31-1	Clark	194	NORTHWEST EXPLORATION CO. Trap Spring No. 7	Nye
149	PAN AMERICAN PETROLEUM CORP. U.S.A. Jiggs No. 1	Elko	195	*CHADCO, INC. Pennington No. 22-2	Nye
150	SUTHERLAND, A. PAUL Sutherland No. 1	Nye	196	NORTHWEST EXPLORATION CO. Trap Spring No. 8	Nye
151	TENNECO OIL CO. U.S.A.-Shingle Pass No. 1	Nye	197	NORTHWEST EXPLORATION CO. Trap Spring No. 9	Nye
152	WITTER, GEORGE G., JR. Jake's Wash Unit No. 1	White Pine	198	CHADCO, INC. Zuspann No. 24-1	Nye
153	*KNOWLES, C. E. & DARLING, RALPH Federal No. 1-35	White Pine	199	TEXACO, INC. (FERGUSON & BOSWORTH AND ASSOCIATES) Munson Ranch Federal No. 14-1	Nye
154	*KNOWLES, C. E. & DARLING, RALPH Long Valley Federal No. 35-88	White Pine	200	OVERLAND PETROLEUM CO., INC. Munson Ranch Federal No. 31-1	Nye
155	TEXACO, INC. Federal No. 1	Lincoln	201	*TEXACO, INC. Munson Ranch Federal No. 14-2	Nye
156	HAEBER, JOHN H. Adam No. 1	Clark	202	*TEXACO, INC. Munson Ranch Federal No. 14-3	Nye
157	GUADALUPE EXPLORATION CORP. Long Valley No. 1	White Pine	203	NORTHWEST EXPLORATION CO. Trap Spring No. 13	Nye
158	ATLANTIC INTERNATIONAL OIL CORP. Dalton No. 1	Elko	204	PYRAMID OIL CO. U.S. Government No. NS 33-3	Nye
159	CHEVRON OIL CO. ATR Ginn No. 1-13	Lander	205	NORTHWEST EXPLORATION CO. Trap Spring No. 10	Nye
160	WITTER, GEORGE G., JR. Jake's Wash Unit No. 2	White Pine	206	*NORTHWEST EXPLORATION CO. Trap Spring No. 11	Nye
161	STANDARD OIL CO. Standard-Amoco- S.P. Land Co. No. 1	Churchill	207	FILON EXPLORATION CO. Ellison No. 1	Elko
162	*McCULLOCH OIL CORP. I.D.S.-Federal No. 1-6	White Pine	208	CHADCO, INC. Zuspann No. 24-3	Nye
163	*McCULLOCH OIL CORP. I.D.S.-Federal No. 1-9	White Pine	209	TEXACO, INC. Munson Ranch No. 24-1	Nye
164	*McCULLOCH OIL CORP. I.D.S.-Federal No. 1-20	White Pine	210	NORTHWEST EXPLORATION CO. Trap Spring No. 17	Nye
165	*McCULLOCH OIL CORP. I.D.S.-Federal No. 1-28	White Pine	211	TEXACO, INC. Munson Ranch No. 13-33	Nye
166	UNION OIL CO. S. P. Brady No. 1	Churchill	212	*TEXACO, INC. Munson Ranch No. 25-1	Nye
167	KEWANEE OIL AND GAS CO. Federal Ely No. 1	White Pine	213	TEXACO, INC. Munson Ranch No. 24-4	Nye
168	*BLACKROCK OIL CO. Daisy "A" Federal No. 1	Elko	214	NORTHWEST EXPLORATION CO. Trap Spring No. 15	Nye
169	*BLACKROCK OIL CO. Daisy "B" Federal No. 1	Elko	215	*CHADCO, INC. Zuspann No. 24-4	Nye
170	*BLACKROCK OIL CO. Daisy "C" Federal No. 1	Elko	216	*TEXACO, INC. Munson Ranch Federal No. 24-2	Nye
171	*BLACKROCK OIL CO. Daisy "D" Federal No. 1	Elko	217	TEXACO, INC. Munson Ranch No. 24-3	Nye
172	TEXAS AMERICAN OIL CORP. Jake's Wash Unit No. 2A	White Pine	218	TEXACO, INC. Munson Ranch No. 13-24	Nye
173	TEXAS AMERICAN OIL CORP. Jake's Wash Unit No. 3	White Pine	219	NORTHWEST EXPLORATION CO. Trap Spring No. 19	Nye
174	*COLT OIL, INC. Clay Hills Unit No. 5-1	White Pine	220	SHELL OIL CO. Mary's River Federal No. 1	Elko
175	GULF OIL CORP. Jake's Wash Unit No. 4	White Pine	221	PYRAMID OIL CO. Jake's Wash No. 5	White Pine
176	SHELL OIL CO. Goshute Unit No. 1	Elko	222	TEXACO, INC. Munson Ranch No. 13-42	Nye
177	SHELL OIL CO. Steptoe Unit No. 1	White Pine	223	*TEXACO, INC. Munson Ranch No. 13-31 (formerly 13-4)	Nye
178	LADD PETROLEUM CORP. Federal No. 1-31-N	Elko	224	CHADCO, INC. Britton No. 13-21	Nye
179	NORTHWEST EXPLORATION CO. White River Valley No. 1	Nye	225	DOME PETROLEUM CORP. Duck Creek No. 1	White Pine
180	NORTHWEST EXPLORATION CO. Trap Spring No. 1	Nye	226	DOME PETROLEUM CORP. Grass Springs No. 1	White Pine
181	HALBOUTY, MICHAEL T. Federal No. 1	Churchill	227	DOME PETROLEUM CORP. Bastian Creek No. 1	White Pine
182	LADD PETROLEUM CORP. Nevelko No. 1	Elko	228	AMERICAN QUASAR PETROLEUM CO. Long Valley Federal No. 34-1	White Pine
183	NORTHWEST EXPLORATION CO. Blue Eagle No. 1	Nye			

continued

APPENDIX 1.—Wells listed by state permit number (continued)

Permit number	Operator and well	County	Permit number	Operator and well	County
229	KOCH EXPLORATION CO. Tom Spring No. 2-C	Nye	279	SUPRON ENERGY CORP. lease F-18-5-55 No. 1	Nye
230	*SHELL OIL CO. AZL-Superior No. 21-33	Elko	280	SUPRON ENERGY CORP. lease F-30-4-55 No. 1	Nye
231	NORTHWEST EXPLORATION CO. Warm Springs No. 1	Nye	281	*SUPRON ENERGY CORP. lease F-1-4-55 No. 1	Nye
232	NORTHWEST EXPLORATION CO. Trap Spring No. 16	Nye	282	HUNT OIL COMPANY Walter L. Plaskett No. 1	Eureka
233	NORTHWEST EXPLORATION CO. Trap Spring No. 20-X	Nye	283	DOME PETROLEUM CORP. Yelland, No. 1	White Pine
234	*TANNEHILL OIL CO. Federal N6533 No. 1	White Pine	284	AMOCO PRODUCTION CO. Blackburn No. 1	Eureka
235	TANNEHILL OIL CO. Federal N6509 No. 1	White Pine	285	HUNT OIL COMPANY OF NEVADA Diamond Valley Federal No. 1-24	Eureka
236	SHELL OIL CO. Howell No. 42-1	Elko	286	GARY, SAMUEL OIL PRODUCER Federal No. 30-10	White Pine
237	NORTHWEST EXPLORATION CO. Jake's Wash No. 5A	White Pine	287	TEXACO, INC. Munson Ranch No. 14-34	Nye
238	WRIGHT EXPLORATION Federal No. 26-1	Esmeralda	288	CONOCO, INC. Conoco Federal 8 No. 1	White Pine
239	NORTHWEST EXPLORATION CO. Little Meadows No. 1	Nye	289	SOHIO PETROLEUM CO. Ruby Valley Unit No. 1	Elko
240	NORTHWEST EXPLORATION CO. Trap Spring No. 21	Nye	290	NORTHWEST EXPLORATION CO. White River Valley No. 3	Nye
241	NORTHWEST EXPLORATION CO. Currant No. 1	Nye	291	NORTHWEST EXPLORATION CO. Railroad Valley No. 1	Nye
242	*NORTHWEST EXPLORATION CO. Little Meadows No. 2	Nye	292	HUNT OIL CO. Mary's River Federal No. 1-8	Elko
243	TANNEHILL OIL CO. Federal N6509 No. 2	White Pine	293	NORTHWEST EXPLORATION CO. White River Valley No. 7	Nye
244	FERGUSON & BOSWORTH AND ASSOCIATES (TEXACO, INC.) Munson Ranch No. 11-23	Nye	294	NORTHWEST EXPLORATION CO. Railroad Valley No. 6	Nye
245	*MAY PETROLEUM INC. Federal No. 1-16	Lincoln	295	NORTHWEST EXPLORATION CO. Railroad Valley No. 7	Nye
246	WEXPRO CO. Cord No. 24-1	Elko	296	*SOHIO PETROLEUM CO. Palomino Ridge No. 1	Elko
247	*TEXACO, INC. Munson Ranch No. 7-13	Nye	297	WEXPRO CO. Jiggs Unit No. 2	Elko
248	*TEXACO, INC. Munson Ranch No. 7-24	Nye	298	FLEETWOOD OIL & GAS CORP. Fleetwood Federal Ger No. 1	Clark
249	*TEXACO, INC. Munson Ranch No. 12-44	Nye	299	FLEETWOOD OIL & GAS CORP. Fleetwood Federal Eva Garten No. 1	Clark
250	*TEXACO, INC. Munson Ranch No. 13-41	Nye	300	AMERICAN HUNTER EXPLORATION Black Jack Springs Federal No. 1	White Pine
251	*TEXACO, INC. Munson Ranch No. 13-44	Nye	301	AMOCO PRODUCTION CO. Blackburn No. 2	Eureka
252	*TEXACO, INC. Munson Ranch Federal No. 18-11	Nye	302	APACHE CORP. Hot Creek Federal No. 24-13	Nye
253	*TEXACO, INC. Munson Ranch No. 24-12	Nye	303	NORTHWEST EXPLORATION CO. Trap Spring No. 1-R	Nye
254	*TEXACO, INC. Munson Ranch No. 24-42	Nye	304	NORTHWEST EXPLORATION CO. Railroad Valley No. 4	Nye
255	DEPCO, INC. Ventosa Unit No. 42-13	Elko	305	NORTHWEST EXPLORATION CO. Railroad Valley No. 3	Nye
256	*NORTHWEST EXPLORATION CO. Currant No. 2	Nye	306	NORTHWEST EXPLORATION CO. Railroad Valley No. 2	Nye
257	*NORTHWEST EXPLORATION CO. Currant No. 3	Nye	307	NORTHWEST EXPLORATION CO. White River Valley No. 5	Nye
258	*NORTHWEST EXPLORATION CO. Currant No. 4	Nye	308	NORTHWEST EXPLORATION CO. White River Valley No. 6	Nye
259	AMINOIL U.S.A., INC. S.P. Land Company No. 1-23	Elko	309	HUNT OIL COMPANY OF NEVADA F. W. Hooper No. 1	Elko
260	MOBIL OIL CORP. Virgin River U.S.A. No. 1	Clark	310	APACHE CORP. Warm Springs Federal No. 10-14	Nye
261	TEXACO, INC. Duckwater Creek No. 8-12	Nye	311	*APACHE CORP. Federal No. 3-13	Nye
262	AMERADA HESS CORP. Federal No. 1-20	White Pine	312	TEXACO, INC. Crane Springs No. 19-13	Elko
263	WEXPRO CO. Jiggs No. 10-1	Elko	313	TEXACO, INC. Munson Ranch No. 14-23	Nye
264	*WEXPRO CO. Jiggs No. 3-1	Elko	314	DOME PETROLEUM CORP. Steptoe Federal No. 1-24	White Pine
265	AMOCO PRODUCTION CO. Bullwhacker Springs No. 1	Nye	315	WEXPRO CO. Blue Eagle Unit No. 1	Nye
266	AMOCO PRODUCTION CO. Huntington Creek No. 1	Elko	316	NORTHWEST EXPLORATION CO. Bacon Flat No. 1	Nye
267	LOUISIANA LAND & EXPLORATION CO. U.S.A.-Steptoe Valley No. 1	White Pine	317	NORTHWEST EXPLORATION CO. Railroad Valley No. 9	Nye
268	HUMBOLDT ASSOCIATES Ellison No. 1	Humboldt	318	NORTHWEST EXPLORATION CO. Railroad Valley No. 10	Nye
269	NORTHWEST EXPLORATION CO. Ilipah No. 1	White Pine	319	CHEVRON U.S.A., INC.-MICHEL T. HALBOUTY ENERGY CO. Colorock Quarry No. 1	Clark
270	AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO Adobe Federal No. 19-1	Lincoln	320	*CHEVRON U.S.A., INC. Buffington Pocket No. 1	Clark
271	CONOCO, INC. Conoco Federal No. 29-1	White Pine	321	NORTHWEST EXPLORATION CO. White River Valley No. 4	Nye
272	MOBIL OIL CORP. Virgin River U.S.A. No. 1-A	Clark	322	DEPCO, INC. Silver State Federal No. 33-18	Eureka
273	CABANA OIL COMPANY Federal No. 1-30	Eureka			
274	NORTHWEST EXPLORATION CO. White River No. 2	White Pine			
275	SUPRON ENERGY CORP. lease F-28-8-61 No. 1	Nye			
276	SUPRON ENERGY CORP. lease F-27-6-55 No. 1	Nye			
277	*SUPRON ENERGY CORP. lease F-25-5-55 No. 1	Nye			
278	SUPRON ENERGY CORP. lease F-2-4-55 No. 1	Nye			

APPENDIX 1.—Wells listed by state permit number (continued)

Permit number	Operator and well	County	Permit number	Operator and well	County
323	AMOCO PRODUCTION CO. Big Pole Creek No. 1	Eureka	369	HUSKY OIL CO. Big Meadow Unit No. 1	Nye
324	AMOCO PRODUCTION CO. Blackburn No. 3	Eureka	370	HUNT OIL COMPANY OF NEVADA Diamond Valley No. 1-11	Eureka
325	NORTHWEST EXPLORATION CO. Bacon Flat No. 5	Nye	371	AMOCO PRODUCTION CO. White River Unit No. 3	Nye
326	NORTHWEST EXPLORATION CO. Bacon Flat Federal No. 2	Nye	372	BULLWHACKER OIL, INC. Bullwhacker No. 1	Nye
327	*NORTHWEST EXPLORATION CO. Bacon Flat Federal No. 3	Nye	373	WESTERN AVENUE PROPERTIES Munson Ranch No. 13-32	Nye
328	*NORTHWEST EXPLORATION CO. Bacon Flat Federal No. 4	Nye	374	MAPCO OIL & GAS CO. Grant Canyon No. 2	Nye
329	GRACE PETROLEUM CORP. Arrow Canyon No. 1	Clark	375	MAPCO OIL & GAS CO. Grant Canyon No. 3	Nye
330	SUN OIL CO. (SUN EXPLORATION & PRODUCTION CO.) Southern Pacific No. 1	Elko	376	MAPCO OIL & GAS CO. Grant Canyon No. 4	Nye
331	*LYDDON, JOHN Eagle Springs No. 81-35	Nye	377	DIAMOND SHAMROCK EXPLORATION COMPANY Kimbark Federal No. 1-28	Elko
332	CITIES SERVICE CO. Federal BL No. 1	Elko	378	MARATHON OIL CO. Currant Creek Unit No. 1	Nye
333	AMOCO PRODUCTION CO. Blackburn No. 4	Eureka	379	HUSKY OIL CO. Highway Unit No. 1	Nye
334	AMOCO PRODUCTION CO. Blackburn No. 5	Eureka	380	MARATHON OIL CO. Duckwater Creek No. 1	Nye
335	AMOCO PRODUCTION CO. Blackburn No. 6	Eureka	381	HARPER OIL CO. Nyala No. 1	Nye
336	*AMOCO PRODUCTION CO. Amoco Chambers No. 1	Eureka	381	HARPER OIL CO. Nyala No. 1-R	Nye
337	COMMODORE RESOURCES Outlaw Federal No. 1	White Pine	382	WESTERN AVENUE PROPERTIES Munson Ranch No. 13-31	Nye
338	*APACHE CORP. Hot Creek Federal No. 29-1	Nye	383	HUMBOLDT ASSOCIATES Ellison No. 2	Humboldt
339	*AMOCO PRODUCTION CO. Blackburn No. 8	Eureka	384	MAPCO OIL & GAS CO. Thorn No. 1	Nye
340	*APACHE CORP. Federal No. 9-1	White Pine	385	DEPCO, INC. Willow Wash Federal No. 42-24	Eureka
341	*APACHE CORP. Federal No. 35-1	White Pine	386	*TRUE OIL CO. Black Jack No. 1-3	White Pine
342	SUN EXPLORATION & PRODUCTION CO. Southern Pacific No. 3-13	Elko	387	*JORDAN OIL & GAS CO. Christian Springs No. 1-33	Nye
343	BUCKHORN PETROLEUM CO. Adobe Federal No. 16-1	Nye	388	*AMOCO PRODUCTION CO. Blackburn No. 13	Eureka
344	JAYHAWK EXPLORATION, INC. Federal-Indian Springs No. 1	Clark	389	*AMOCO PRODUCTION CO. White River Unit No. 1	Nye
345	BUCKHORN PETROLEUM CO. Chuckwagon Federal No. 10-14	Nye	390	*AMOCO PRODUCTION CO. White River Unit No. 2	Nye
346	TEXACO, INC. Munson Ranch No. 11-23X	Nye	391	*AMOCO PRODUCTION CO. White River Unit No. 4	Nye
347	SUN EXPLORATION & PRODUCTION CO. King Lear Federal No. 1-17	Humboldt	392	*AMOCO PRODUCTION CO. White River Unit No. 5	Nye
348	SUN EXPLORATION & PRODUCTION CO. Toano Federal No. 1	Elko	393	*AMOCO PRODUCTION CO. White River Unit No. 6	Nye
349	SUN EXPLORATION & PRODUCTION CO. Shafter Federal No. 1	Elko	394	*AMOCO PRODUCTION CO. White River Unit No. 7	Nye
350	AMOCO PRODUCTION CO. Blackburn No. 10	Eureka	395	*AMOCO PRODUCTION CO. White River Unit No. 8	Nye
351	DIXIE VALLEY LTD. PARTNERSHIP Ernst No. 1	Churchill	396	MARATHON OIL CO. Beaty Canyon No. 1	Nye
352	*SUN EXPLORATION & PRODUCTION CO. Bird Springs Federal No. 1	Clark	397	PLACID OIL CO. Steptoe Federal No. 17-14	White Pine
353	NORTHWEST EXPLORATION CO. Grant Canyon No. 1	Nye	398	UNION TEXAS PETROLEUM CORP. Nevada-Federal No. 15-1	Nye
354	WESTERN AVENUE PROPERTIES Munson Ranch No. 14-24	Nye	399	*UNION TEXAS PETROLEUM CORP. Nevada-Federal No. 15-2	Nye
355	*AMOCO PRODUCTION CO. Blackburn No. 11	Eureka	400	MAPCO OIL & GAS CO. Grant Canyon No. 5	Nye
356	AMOCO PRODUCTION CO. Blackburn No. 12	Eureka	401	HARPER OIL CO. Grant Canyon No. 6	Nye
357	AMOCO PRODUCTION CO. East Bailey Ranch No. 1	Eureka	402	*MAPCO OIL & GAS CO. Grant Canyon No. 7	Nye
358	*AMOCO PRODUCTION CO. East Bailey Ranch No. 2	Eureka	403	MARLIN OIL CO. Federal No. 1-5	White Pine
359	*AMOCO PRODUCTION CO. East Bailey Ranch No. 3	Eureka	404	ARCO OIL & GAS CO. Stag Mountain No. 1	Elko
360	*AMOCO PRODUCTION CO. East Bailey Ranch No. 4	Eureka	405	JAYHAWK EXPLORATION, INC. Koch No. 2-29	Nye
361	*AMOCO PRODUCTION CO. East Bailey Ranch No. 5	Eureka	406	WESTERN AVENUE PROPERTIES Munson Ranch No. 12-34	Nye
362	SHELL WESTERN E & P, INC. U.S.A. No. 41-24	Nye	407	ARCO OIL & GAS CO. Antelope Valley No. 1	Lander
363	SHELL OIL CO. U.S.A. No. 34-25	Nye	408	ARCO OIL & GAS CO. Tobin No. 1	Pershing
364	*MARATHON OIL CO. Flat Unit No. 1	Nye	409	HARPER OIL CO. Conoco Federal No. 19-1	White Pine
365	HUSKY OIL CO. Willow Spring No. 1	Nye	410	PHILLIPS PETROLEUM CO. Stoneberger Creek Federal A No. 1-35	Lander
366	MARATHON OIL CO. Soda Springs Unit No. 1	Nye	411	PHILLIPS PETROLEUM CO. Dobbin Creek Federal A No. 1-6	Nye
367	MARLIN OIL CO. Federal No. 1-4	Elko	412	*MAPCO OIL & GAS CO. Stardust No. 1	Nye
368	HUSKY OIL CO. South Trap Spring No. 1	Nye	413	*MAPCO OIL & GAS CO. Grant Canyon No. 9	Nye
			414	MAPCO OIL & GAS CO. Grant Canyon No. 8	Nye
			415	BOSWELL ENERGY CORP. Big Pole Creek No. 1-11	Eureka
			416	*DIXIE VALLEY LTD. PARTNERSHIP Soup Bowl No. 1	Churchill
			417	*DIXIE VALLEY LTD. PARTNERSHIP Soup Bowl No. 2	Churchill

continued

APPENDIX 1.—Wells listed by state permit number (continued)

Permit number	Operator and well	County	Permit number	Operator and well	County
418	*DIXIE VALLEY LTD. PARTNERSHIP Soup Bowl No. 3	Churchill	450	AMOCO PRODUCTION CO. Blackburn No. 15	Eureka
419	CELSIUS ENERGY CO. Duckwater Federal No. 9-1	Nye	451	*BULLWHACKER OIL, INC. Butterfield No. 1	Nye
420	*WESTERN AVENUE PROPERTIES Munson Ranch No. 12-44	Nye	452	*HARPER OIL CO. Cornell No. 4-29	Nye
421	AMOCO PRODUCTION CO. Dutch John Unit No. 1	Lincoln	453	HARPER OIL CO. Big Smoke No. 14-20	Nye
422	MAPCO OIL & GAS CO. Trap Spring No. 17-R	Nye	454	*SUN EXPLORATION & PRODUCTION CO. Bird Springs No. 1	Clark
423	WESTERN AVENUE PROPERTIES Munson Ranch No. 12-33	Nye	455	*WESTERN AVENUE PROPERTIES Munson Ranch No. 14-32	Nye
424	BRENT ENERGY, INC. Shogrin Federal No. 1	Lincoln	456	BTA OIL PRODUCERS Stone Cabin No. 1	Nye
425	AMOCO PRODUCTION CO. East Henderson Creek No. 1	Eureka	457	BTA OIL PRODUCERS Stone Cabin No. 2	Nye
426	REDI CORP. Gold Butte KPS Fed. No. 1	Clark	458	AMOCO PRODUCTION CO. Blackburn No. 16	Eureka
427	AMOCO PRODUCTION CO. Stage Line Unit No. 1-A	White Pine	459	FLETCHER, C. H. Fletcher No. 1	Lincoln
428	DIAMOND SHAMROCK EXPLORATION CO. Magnuson Fee No. 22-21	Elko	460	TRUE OIL CO. Shields Federal No. 13-22	White Pine
429	SUN EXPLORATION & PRODUCTION CO. Elko Hills No. 1	Elko	461	WIL-O-EXPLORATION/TEXXON INVESTMENTS, INC. Texxon No. 1	Elko
430	*ARCO OIL & GAS CO. Dixie Flats No. 1	Elko	462	SUN EXPLORATION & PRODUCTION CO. Blue Diamond Federal No. 1	Clark
431	*ARCO OIL & GAS CO. Pleasant Valley No. 1	Pershing	463	MARATHON OIL CO. Shoreline No. 1	Nye
432	WESTERN AVENUE PROPERTIES Munson Ranch No. 12-24	Nye	464	HARPER OIL CO. Nyala No. 6-22-5-55	Nye
433	*AMOCO PRODUCTION CO. Blackburn No. 14	Eureka	465	HARPER OIL CO. North Munson Ranch No. 14-6	Nye
434	WIL-O-EXPLORATION Farnes No. 1	Elko	466	*HARPER OIL CO. Nyala No. 1-4-5-55	Nye
435	MARATHON OIL CO. Munson Ranch No. 13-1	Nye	467	TEXXON INVESTMENTS, INC./WIL-O-EXPLORATION Texxon No. 2	Elko
436	MARATHON OIL CO. Kate Spring No. 1	Nye	468	MARATHON OIL CO. Reynolds Springs No. 1	Nye
437	RAM RESOURCES, INC. Long Jevity Federal No. 1	White Pine	469	*HNG OIL CO. Black Mountain No. 36-1	White Pine
438	RAM RESOURCES, INC. Long Shot Federal No. 1	White Pine	470	AMOCO PRODUCTION CO. Garden Valley No. 1	Lincoln
439	TRUE OIL CO. Panos Federal No. 44-33	White Pine	471	*PIONEER OIL & GAS Crow's Nest No. 14-32	Nye
440	TRUE OIL CO. Pon Federal No. 44-14	White Pine	472	*PIONEER OIL & GAS Crow's Nest No. 14-42	Nye
441	TRUE OIL CO. Hendrickson Federal No. 43-35	White Pine	473	PIONEER OIL & GAS Crow's Nest No. 23-11	Nye
442	AMOCO PRODUCTION CO. Blackburn No. 14	Eureka	474	TRUE OIL CO. Roark Federal No. 12-10	White Pine
443	EXXON CORP. Four Mile Butte Federal No. 1	Elko	475	TRUE OIL CO. Roark Federal No. 13-11	White Pine
444	TRUE OIL CO. Langley Federal No. 14-28	White Pine	476	MARATHON OIL CO. Silver Spring No. 1	Nye
445	WESTERN AVENUE PROPERTIES Munson Ranch No. 12-44X	Nye	477	*MOORE McCORMACK ENERGY INC. Federal No. 6-1	Lincoln
446	MERIDIAN OIL, INC. Spencer Federal No. 32-29	Nye	478	AMOCO PRODUCTION CO. Sunnyside Unit No. 1	Nye
447	WIL-O-EXPLORATION Farnes No. 2	Elko	479	*EARTH RESOURCES AND TECHNOLOGY, INC. Thomas Gap Federal No. JP-1	Clark
448	WESTERN AVENUE PROPERTIES Munson Ranch No. 13-41X	Nye	480	DIVERSIFIED OPERATING CORP. D.O.C. Federal No. 5-18	Nye
449	WESTERN AVENUE PROPERTIES J.N. Oil & Gas Federal No. 1	Nye	481	PIONEER OIL & GAS Willow Springs No. 1-31-33	Nye
			482	*PIONEER OIL & GAS Lone Tree No. 1-14-43	Nye
			483	*PIONEER OIL & GAS Lone Tree No. 2-23-23	Nye

*Well not drilled

APPENDIX 2.—Wells listed by API number

API number	Operator and well	Permit number	API number	Operator and well	Permit number
27-001-04998	FALLON PIONEER OIL CO. No. 1	CH2	27-003-05053	INTERMOUNTAIN ASSOCIATES, INC.	
27-001-04999	SYNDICATE OIL CO. No. 1	CH12		No. 2 (Jean)	7
27-001-05000	CHURCHILL DRILLING CORP. Lima No. 1	50	27-003-05054	SOUTHERN GREAT BASIN OIL & GAS, INC.	
27-001-05001	CHURCHILL DRILLING CORP. Stewart No. 1	44		Government No. 1	13
27-001-05002	CHURCHILL DRILLING CORP. Williams No. 1	56	27-003-05055	BANNISTER, E. W. No. 1	CL4
27-001-05003	CHURCHILL DRILLING CORP. Reggie No. 1	40	27-003-05056	COMMONWEALTH OIL CO. No. 1	CL5
27-001-05004	CHURCHILL DRILLING CORP. Ernst No. 2	47	27-003-05057	HATFIELD, L. M. No. 1	CL2
27-001-05005	CHURCHILL DRILLING CORP. Ernst No. 1	45	27-003-05058	RED STAR OIL CO. J. B. Nelson No. 1	CL6
27-001-05006	*NEVADA GAS LANDS, INC. B & G No. 3	64	27-003-05059	RED STAR OIL CO. (J. B. NELSON) J. B. Nelson	
27-001-05007	CHURCHILL DRILLING CORP. Barbara No. 1	54		No. 2	CL7
27-001-05008	CHURCHILL DRILLING CORP. T.C.I.D. No. 1	61	27-003-05060	NEW HAVEN OIL CO. No. 1	CL8
27-001-05010	CHURCHILL DRILLING CORP. Churchill		27-003-05061	NEW HAVEN OIL CO. No. 2	CL9
	County No. 1	60	27-003-05062	NEW HAVEN OIL CO. No. 3	CL10
27-001-05040	CHURCHILL DRILLING CORP. Ernst No. 1-A	49	27-003-05063	NEW HAVEN OIL CO. No. 4	CL11
27-001-05041	CHURCHILL DRILLING CORP. Evelyn No. 1	52	27-003-05064	NEW HAVEN OIL CO. No. 5	CL12
27-001-05042	NEVADA GAS LANDS, INC. Bono No. 11	58	27-003-05065	NEW HAVEN OIL CO. No. 6	CL13
27-001-05043	NEVADA GAS LANDS, INC. Helen No. 1	55	27-003-05066	GOODSPRINGS OIL CO. No. 1	CL3
27-001-05044	FALLON UNION OIL CO. No. 1	CH1	27-003-05067	UNITED PETROLEUM CORP. Apex No. 1	CL16
27-001-05045	FALLON OIL & GAS CO. No. 1	CH3	27-003-05068	SOUTHERN NEVADA OIL INVESTORS CO.	
27-001-05046	FALLON OIL & GAS CO. No. 2	CH4		(POZIL, JOHNSON, AND KRUG) Apex No. 1	CL19
27-001-05047	FALLON OIL & GAS CO. No. 1-A	CH5	27-003-05069	LAST CHANCE OIL CO. Crystal No. 1	CL20
27-001-05048	FALLON OIL & GAS CO. No. 2-A	CH6	27-003-05070	GRIMM, JACK F. (MINERALS DRILLING INC.)	
27-001-05049	FALLON EXTENSION OIL & GAS CO. No. 1	CH10		Wilson No. 1	91
27-001-05050	DIAMOND OIL CO. No. 1	CH11	27-003-05200	KAMARDEN OIL AND GAS LTD. KOG No. 1	132
27-001-05051	COUNCIL OIL CO. No. 1	CH7	27-003-05201	PHELPS, C. P. Phelps No. 1	133
27-001-05052	FALLON NEVADA OIL CO. No. 1	CH8	27-003-05202	SANDIA INTERNATIONAL METALS CORP.	
27-001-05053	HART, E. W. No. 1	CH9		Duff No. 1	145
27-001-05054	CALNEVA OIL CO. Way Bros. No. 1	CH13	27-003-05203	TIME PETROLEUM INC. Federal No. 31-1	148
27-001-05056	LAHONTAN OIL SYNDICATE No. 1	CH14	27-003-05204	HAEBER, JOHN H. Adam No. 1	156
27-001-05061	THORPE, H. B. Carson Sink No. 1	72	27-003-05205	MOBIL OIL CORP. Virgin River U.S.A. No. 1	260
27-001-05062	STANDARD OIL CO. Standard-Amoco-S. P.		27-003-05206	MOBIL OIL CORP. Virgin River U.S.A. No. 1-A	272
	Land Co. No. 1	161	27-003-05207	FLEETWOOD OIL & GAS CORP. Fleetwood	
27-001-05063	HALBOUTY, MICHAEL T. Federal No. 1	181		Federal Ger No. 1	298
27-001-05064	DIXIE VALLEY LTD. PARTNERSHIP Ernst		27-003-05208	FLEETWOOD OIL & GAS CORP. Fleetwood	
	No. 1	351		Federal Eva Garten No. 1	299
27-001-05065	*DIXIE VALLEY LTD. PARTNERSHIP Soup		27-003-05209	CHEVRON U.S.A., INC.—MICHEL T.	
	Bowl No. 1	416		HALBOUTY ENERGY CO. Colorock Quarry	
27-001-05066	*DIXIE VALLEY LTD. PARTNERSHIP Soup			No. 1	319
	Bowl No. 2	417	27-003-05210	*CHEVRON U.S.A., INC. Buffington Pocket	
27-001-05067	*DIXIE VALLEY LTD. PARTNERSHIP Soup			No. 1	320
	Bowl No. 3	418	27-003-05211	GRACE PETROLEUM CORP. Arrow Canyon	
27-003-04994	PERMIAN OIL CO. Schwartz No. 1	CL14		No. 1	329
27-003-04995	IWING, JOSEPH & ASSOCIATES Petresia No. 1	CL18	27-003-05212	JAYHAWK EXPLORATION, INC. Federal-Indian	
27-003-04996	G AND G EXPLORATION CO. No. 1	CL17		Springs No. 1	344
27-003-04997	HALL CO., FRANK No. 1	CL1	27-003-05213-A	*SUN EXPLORATION & PRODUCTION CO.	
27-003-04998	MATADOR OIL CO. No. 29-1X	CL27		Bird Springs Federal No. 1	352
27-003-04999	SASTEX OIL & GAS Jones No. 1	CL29	27-003-05213-B	*SUN EXPLORATION & PRODUCTION CO.	
27-003-05000	MOAPA NEVADA OIL & GAS CO. Logandale			Bird Springs No. 1	454
	No. 1	28	27-003-05214	REDI CORP. Gold Butte KPS Fed. No. 1	426
27-003-05001	LICHTENWALTER, S. J. & TURPIN, C. M.		27-003-05216	*EARTH RESOURCES AND TECHNOLOGY,	
	Turpin No. 1	51		INC. Thomas Gap Federal No. JP-1	479
27-003-05003	ROSEN OIL CO. Muddy Dome No. 1	87	27-003-05240	SUN EXPLORATION & PRODUCTION CO.	
27-003-05004	SHELL OIL CO. Bowl of Fire Unit No. 1	38		Blue Diamond Federal No. 1	462
27-003-05005	TRI-STATE OIL EXPLORATION CO.		27-007-04001	DR. EBY	EL1
	Miskell-Gov't No. 1	39	27-007-04007	MERRITT ARMSTRONG WELL	EL2
27-003-05006	*TRANS-WORLD OIL CO. Wilson Associates		27-007-04008	*SOHIO PETROLEUM CO. Palomino Ridge No. 1	296
	No. 1	42	27-007-05000	GULF REFINING CO. Dolly Varden Unit No. 1	EL7
27-003-05007	BONANZA OIL CO. Arden Dome No. 1		27-007-05001	WESTERN OSAGE OIL, INC. Government No. 1	EL5
	(Consolidated Government No. 1)	34	27-007-05002	LAST FRONTIER OIL CO. Government No. 1	EL8
27-003-05008	BROWN, JOE W. Wilson No. 1	33	27-007-05003	RICHFIELD OIL CORP. Rabbit Creek Unit No. 1	24
27-003-05009	EQUALITY OIL CO. (ARDEN DOME OIL CO.)		27-007-05004	MCCARTHY OIL CO. Rahas No. 1	EL6
	Chadek No. 1	62	27-007-05005	INLAND OIL CO. Itcaina No. 1	6
27-003-05010	U.S. OIL CO. (MATADOR OIL CO.) Wilson		27-007-05006	GULF REFINING CO. Pete Itcaina No. 1	12
	No. 1X	23	27-007-05007	GULF REFINING CO. Wilkins Ranch No. 1	3
27-003-05011	TRANS-WORLD OIL CO. Houssels-Wilson-Milka		27-007-05008	GULF REFINING CO. Wilkins Ranch No. 2	14
	No. 1	41	27-007-05009	GULF REFINING CO. Thousand Springs No. 1	5
27-003-05012	NEVADA EXPLORATION CO. Porter No. 1	CL15	27-007-05010	GULF REFINING CO. Mary's River Federal No. 1	16
27-003-05013	SMITHDEAL, W. T., JR. U.S. Lease No. 1	31	27-007-05011	RICHFIELD OIL CORP. Scott-Ogilvie No. 1	32
27-003-05014	BRAY, OSCAR No. 1	CL28	27-007-05012	GULF OIL CORP. OF CALIFORNIA Owl Hill	
27-003-05016	WILSON, L. R. Government No. 1	CL22		Federal No. 1	68
27-003-05016-R	WILSON, L. R. Government No. 1-A	CL25	27-007-05050	INLAND OIL CO. Itcaina No. 2	9
27-003-05040	McAULEY ASSOCIATES No. 1	CL23	27-007-05051	INLAND OIL CO. Itcaina No. 3	EL12
27-003-05041	McAULEY ASSOCIATES No. 2	CL21	27-007-05052	BULL RUN OIL & GAS CO. No. 1	EL3
27-003-05042	BIG BASIN OIL CO. Government No. 1	CL24	27-007-05053	ELKO OIL & DEVELOPMENT IMPROVEMENT	
27-003-05050	*COLMARRAN OIL PRODUCTS CO. No. 6-1	37		CO. No. 1	EL4
27-003-05051	INTERMOUNTAIN ASSOCIATES, INC.		27-007-05054	DIAMOND OIL CO. Diamond Valley No. 1	EL9
	Arden Dome No. 1 (No. 1-X)	8	27-007-05055	DIAMOND OIL CO. Diamond Valley No. 2	EL10
27-003-05052	BLACK GOLD OIL AND GAS EXPLORATION		27-007-05056	DIAMOND OIL CO. Diamond Valley No. 3	EL11
	CO. INTERMOUNTAIN ASSOCIATION No. 1		27-007-05057	DIAMOND OIL CO. Conquest No. 1	EL13
	(Golden Spike)	CL26	27-007-05200	PAN AMERICAN PETROLEUM CORP. Cobre	
				Minerals Corp. No. 1	123

APPENDIX 2.—Wells listed by API number (continued)

API number	Operator and well	Permit number	API number	Operator and well	Permit number
27-007-05201	PAN AMERICAN PETROLEUM CORP. U.S.A. Franklin No. 1	147	27-011-05203	CABANA OIL COMPANY Federal No. 1-30	273
27-007-05202	PAN AMERICAN PETROLEUM CORP. U.S.A. Jiggs No. 1	149	27-011-05204	HUNT OIL CO. Walter L. Plaskett No. 1	282
27-007-05203	*BLACKROCK OIL CO. Daisy "A" Federal No. 1	168	27-011-05205	AMOCO PRODUCTION CO. Blackburn No. 1	284
27-007-05204	*BLACKROCK OIL CO. Daisy "B" Federal No. 1	169	27-011-05206	HUNT OIL COMPANY OF NEVADA Diamond Valley Federal No. 1-24	285
27-007-05205	*BLACKROCK OIL CO. Daisy "C" Federal No. 1	170	27-011-05207	AMOCO PRODUCTION CO. Blackburn No. 2	301
27-007-05206	*BLACKROCK OIL CO. Daisy "D" Federal No. 1	171	27-011-05208	DEPCO, INC. Silver State Federal No. 33-18	322
27-007-05207	SHELL OIL CO. Goshute Unit No. 1	176	27-011-05209	AMOCO PRODUCTION CO. Big Pole Creek No. 1	323
27-007-05208	LADD PETROLEUM CORP. Federal No. 1-31-N	178	27-011-05210	AMOCO PRODUCTION CO. Blackburn No. 3	324
27-007-05209	LADD PETROLEUM CORP. Nevelko No. 1	182	27-011-05211	*AMOCO PRODUCTION CO. Amoco Chambers No. 1	336
27-007-05210-A	ATLANTIC INTERNATIONAL OIL CORP. Dalton No. 1	158	27-011-05212	AMOCO PRODUCTION CO. Blackburn No. 4	333
27-007-05210-B	FILON EXPLORATION CO. Ellison No. 1	207	27-011-05213	AMOCO PRODUCTION CO. Blackburn No. 5	334
27-007-05211	SHELL OIL CO. Mary's River Federal No. 1	220	27-011-05214	AMOCO PRODUCTION CO. Blackburn No. 6	335
27-007-05212	*SHELL OIL CO. AZL-Superior No. 21-33	230	27-011-05215	*AMOCO PRODUCTION CO. Blackburn No. 8	339
27-007-05213	SHELL OIL CO. Howell No. 42-1	236	27-011-05216	AMOCO PRODUCTION CO. Blackburn No. 10	350
27-007-05214	WEXPRO CO. Cord No. 24-1	246	27-011-05217	*AMOCO PRODUCTION CO. Blackburn No. 11	355
27-007-05215	DEPCO, INC. Ventosa Unit No. 42-13	255	27-011-05218	AMOCO PRODUCTION CO. Blackburn No. 12	356
27-007-05216	AMINOIL U.S.A., INC. S.P. Land Company No. 1-23	259	27-011-05219	AMOCO PRODUCTION CO. East Bailey Ranch No. 1	357
27-007-05217	WEXPRO CO. Jiggs No. 10-1	263	27-011-05220	*AMOCO PRODUCTION CO. East Bailey Ranch No. 2	358
27-007-05218	*WEXPRO CO. Jiggs No. 3-1	264	27-011-05221	*AMOCO PRODUCTION CO. East Bailey Ranch No. 3	359
27-007-05219	AMOCO PRODUCTION CO. Huntington Creek No. 1	266	27-011-05222	*AMOCO PRODUCTION CO. East Bailey Ranch No. 4	360
27-007-05220	SOHIO PETROLEUM CO. Ruby Valley Unit No. 1	289	27-011-05223	*AMOCO PRODUCTION CO. East Bailey Ranch No. 5	361
27-007-05221	HUNT OIL CO. Mary's River Federal No. 1-8	292	27-011-05224	HUNT OIL COMPANY OF NEVADA Diamond Valley No. 1-11	370
27-007-05223	WEXPRO CO. Jiggs Unit No. 2	297	27-011-05225	DEPCO, INC. Willow Wash Federal No. 42-24	385
27-007-05224	HUNT OIL COMPANY OF NEVADA F. W. Hooper No. 1	309	27-011-05227	BOSWELL ENERGY CORP. Big Pole Creek No. 1-11	415
27-007-05225	TEXACO, INC. Crane Springs No. 19-13	312	27-011-05228	AMOCO PRODUCTION CO. East Henderson Creek No. 1	425
27-007-05226	SUN OIL CO. (SUN EXPLORATION & PRODUCTION CO.) Southern Pacific No. 1	330	27-011-05229	*AMOCO PRODUCTION CO. Blackburn No. 14	433
27-007-05227	CITIES SERVICE CO. Federal BL No. 1	332	27-011-05230	AMOCO PRODUCTION CO. Blackburn No. 14	442
27-007-05228	SUN EXPLORATION & PRODUCTION CO. Southern Pacific No. 3-13	342	27-011-05231	AMOCO PRODUCTION CO. Blackburn No. 15	450
27-007-05229	SUN EXPLORATION & PRODUCTION CO. Toano Federal No. 1	348	27-011-05232	AMOCO PRODUCTION CO. Blackburn No. 16	458
27-007-05230	SUN EXPLORATION & PRODUCTION CO. Shafter Federal No. 1	349	27-013-04999	WESTERN PACIFIC RAILROAD CO. Sulphur-M.P. 474.67	HU1
27-007-05231	MARLIN OIL CO. Federal No. 1-4	367	27-013-05000	BLACK ROCK OIL, GAS, REFINING & DEVELOPMENT CO. No. 1	HU2
27-007-05232	DIAMOND SHAMROCK EXPLORATION COMPANY Kimbark Federal No. 1-28	377	27-013-05001	HUMBOLDT ASSOCIATES Ellison No. 1	268
27-007-05233	ARCO OIL & GAS CO. Stag Mountain No. 1	404	27-013-05002	SUN EXPLORATION & PRODUCTION CO. King Lear Federal No. 1-17	347
27-007-05234	DIAMOND SHAMROCK EXPLORATION CO. Magnuson Fee No. 22-21	428	27-013-05003	HUMBOLDT ASSOCIATES Ellison No. 2	383
27-007-05235	SUN EXPLORATION & PRODUCTION CO. Elko Hills No. 1	429	27-015-04992	VOORHEES, JESS H. No. 6 S	LA2
27-007-05236	*ARCO OIL & GAS CO. Dixie Flats No. 1	430	27-015-04993	VOORHEES, JESS H. No. 5 S	LA3
27-007-05237	WIL-O-EXPLORATION Farnes No. 1	434	27-015-04994	VOORHEES, JESS H. No. 4 S	LA4
27-007-05238	EXXON CORP. Four Mile Butte Federal No. 1	443	27-015-04995	VOORHEES, JESS H. No. 3 S	LA5
27-007-05239	WIL-O-EXPLORATION Farnes No. 2	447	27-015-04996	VOORHEES, JESS H. No. 2 S	LA6
27-007-05240	WIL-O-EXPLORATION/TEXXON INVESTMENTS, INC. Texxon No. 1	461	27-015-04997	VOORHEES, JESS H. No. 1 S	LA7
27-007-05241	TEXXON INVESTMENTS, INC./WIL-O-EXPLORATION Texxon No. 2	467	27-015-04998	NEVADA OIL & GAS CO. Government No. 1	LA10
27-009-04001	FISH LAKE OIL CO. Coaldale Well	ES3	27-015-05000	NEWMAN, CARL Austin No. 1	LA1
27-009-04002	FISH LAKE MERGER OIL CO. No. 1	ES2	27-015-05001	VOORHEES, JESS H. No. 1 Fee Well	LA8
27-009-04003	CALIFORNIA EXCELSIOR CO. McNett Ranch No. 1	ES1	27-015-05002	VOORHEES, JESS H. No. 2 Fee Well	LA9
27-009-05200	MONTE CRISTO OIL CO. Wm. Wright No. 1	131	27-015-05003	BLALACK DRILLING CO. Voorhees No. 1	26
27-009-05201	NEVADA OIL & MINERALS, INC. V.R.S. No. 1	146	27-015-05004	MID-CENTRAL DRILLING CO. Orwitz No. 1	36
27-009-05202	WRIGHT EXPLORATION Federal No. 26-1	238	27-015-05005	ARCO OIL & GAS CO. Antelope Valley No. 1	407
27-011-04001	*AMOCO PRODUCTION CO. Blackburn No. 13	388	27-015-05006	PHILLIPS PETROLEUM CO. Stoneberger Creek Federal A No. 1-35	410
27-011-05000	LAST FRONTIER OIL CO. Damele No. 1	1	27-015-90000	CHEVRON OIL CO. ATR Ginn No. 1-13	159
27-011-05001	*PALAWAN OIL CO. No. 1	70	27-017-05000	PEASE, WILLARD DRILLING CO. Federal No. 1	79
27-011-05002	TAYLOR, JACK Government No. 1	57	27-017-05001	GULF OIL CORP. Cave Valley Unit Federal No. 1	100
27-011-05003	TAYLOR, JACK Government No. 2	65	27-017-05002	GULF OIL CORP. Nevada-Federal CM No. 1	95
27-011-05004	EBERT, JAMES & NEPPLE, EDWARD Government No. 1	19	27-017-05200	TENNECO OIL CO. GB Core Hole No. 13	138
27-011-05006	BEYERBACK, CHARLES (Moab Drilling Company) No. 1	43	27-017-05201	TEXACO, INC. Federal No. 1	155
27-011-05010	TAYLOR, JACK Government No. 3	66	27-017-05202	*MAY PETROLEUM INC. Federal No. 1-16	245
27-011-05011	*TAYLOR, JACK Government No. 4	67	27-017-05203	AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO Adobe Federal No. 19-1	270
27-011-05055	EUREKA OIL & GAS COMPANY Pine Valley No. 1	EU1	27-017-05204	AMOCO PRODUCTION CO. Dutch John Unit No. 1	421
27-011-05056	SHELL OIL CO. Diamond Valley Unit No. 1	29	27-017-05205	BRENT ENERGY, INC. Shogrin Federal No. 1	424
27-011-05200	CARR AND WRATH, INC. Federal No. 1	117	27-017-05206	FLETCHER, C.H. Fletcher No. 1	459
27-011-05201	ASH, W. F. Damele Brothers No. 2	121	27-017-05207	AMOCO PRODUCTION CO. Garden Valley No. 1	470
27-011-05202	GETTY OIL COMPANY Nost 1 No. 1	186	27-017-05208	*MOORE McCORMACK ENERGY INC. Federal No. 6-1	477
			27-019-05000	YERINGTON OIL & GAS CO.	LY1

APPENDIX 2.—Wells listed by API number (continued)

API number	Operator and well	Permit number	API number	Operator and well	Permit number
27-019-05001	NEVADA COAL & OIL CO.	LY2	27-023-05222	*NORTHWEST EXPLORATION CO. Trap Spring No. 46-27	184
27-023-04999	W.C. CO. No. 1-X	NY2	27-023-05223	NORTHWEST EXPLORATION CO. Trap Spring No. 2	185
27-023-05000	SHELL OIL CO. Coyote Unit No. 1	22	27-023-05224	*NORTHWEST EXPLORATION CO. Trap Spring No. 66-27	187
27-023-05001	SHELL OIL CO. Eagle Springs Unit No. 2	10	27-023-05225	NORTHWEST EXPLORATION CO. Trap Spring No. 3	188
27-023-05002	SHELL OIL CO. Eagle Springs Unit No. 54-4	59	27-023-05226	NORTHWEST EXPLORATION CO. Trap Spring No. 4	189
27-023-05003	SHELL OIL CO. Eagle Springs Unit No. 45-5	63	27-023-05227	*NORTHWEST EXPLORATION CO. Trap Spring No. 5	190
27-023-05004	SHELL OIL CO. Eagle Springs Unit No. 17-34	27	27-023-05228	*BURTON/HAWKS, INC. Duncan Federal No. 28-1	191
27-023-05005	SHELL OIL CO. Lockes Unit No. 1	18	27-023-05229	*BURTON/HAWKS, INC. Duncan Federal No. 33-1	192
27-023-05006	SHELL OIL CO. Eagle Springs Unit No. 4	25	27-023-05230	CHADCO, INC. Pennington No. 22-1	193
27-023-05007	SHELL OIL CO. Eagle Springs Unit No. 3	11	27-023-05231	NORTHWEST EXPLORATION CO. Trap Spring No. 7	194
27-023-05008	SHELL OIL CO. Eagle Springs Unit No. 58-26	20	27-023-05232	*CHADCO, INC. Pennington No. 22-2	195
27-023-05009	SHELL OIL CO. Eagle Springs Unit No. 15-35	21	27-023-05233	NORTHWEST EXPLORATION CO. Trap Spring No. 8	196
27-023-05010	SHELL OIL CO. Eagle Springs Unit No. 35-35	17	27-023-05234	NORTHWEST EXPLORATION CO. Trap Spring No. 9	197
27-023-05011	SHELL OIL CO. Eagle Springs Unit No. 1-35	4	27-023-05235	CHADCO, INC. Zuspann No. 24-1	198
27-023-05012	SHELL OIL CO. Eagle Springs Unit No. 62-35	46	27-023-05236	TEXACO, INC. (FERGUSON & BOSWORTH AND ASSOCIATES) Munson Ranch Federal No. 14-1	199
27-023-05013	TEXOTA OIL CO. Eagle Springs Unit No. 74-35	71	27-023-05237	OVERLAND PETROLEUM CO., INC. Munson Ranch Federal No. 31-1	200
27-023-05014	TEXOTA OIL CO. Eagle Springs Unit No. 85-35	73	27-023-05238	*TEXACO, INC. Munson Ranch Federal No. 14-2	201
27-023-05015	SHELL OIL CO. Eagle Springs Unit No. 81-35	48	27-023-05239	*TEXACO, INC. Munson Ranch Federal No. 14-3	202
27-023-05016	TEXOTA OIL CO. Eagle Springs Unit No. 84-35	77	27-023-05240	NORTHWEST EXPLORATION CO. Trap Spring No. 13	203
27-023-05017	TEXOTA OIL CO. Eagle Springs Unit No. 43-36	83	27-023-05241	PYRAMID OIL CO. U.S. Government No. NS 33-3	204
27-023-05018	BANDINI PETROLEUM CO. Harris Government No. 1	15	27-023-05242	NORTHWEST EXPLORATION CO. Trap Spring No. 10	205
27-023-05019	W.C. CO. No. 1	84	27-023-05243	*NORTHWEST EXPLORATION CO. Trap Spring No. 11	206
27-023-05021	WEST END OPETECA Federal U.S. No. 28-1	30	27-023-05244	CHADCO, INC. Zuspann No. 24-3	208
27-023-05022	TEXOTA OIL CO. Eagle Springs Unit No. 73-35	69	27-023-05245	TEXACO, INC. Munson Ranch No. 24-1	209
27-023-05060	PIERCE, R. C. Halstead No. 1	NY1	27-023-05246	NORTHWEST EXPLORATION CO. Trap Spring No. 17	210
27-023-05061	GULF OIL CORP. Duck Unit No. 1	106	27-023-05247	TEXACO, INC. Munson Ranch No. 13-33	211
27-023-05062	GULF OIL CORP. Duck Unit No. 2	108	27-023-05248	*TEXACO, INC. Munson Ranch No. 25-1	212
27-023-05063	GULF OIL CORP. Nyala Unit No. 1	105	27-023-05249	TEXACO, INC. Munson Ranch No. 24-4	213
27-023-05073	TEXOTA OIL CO. Eagle Springs Unit No. 17-35	97	27-023-05250	NORTHWEST EXPLORATION CO. Trap Spring No. 15	214
27-023-05074	*TEXOTA OIL CO. Eagle Springs Unit No. 11-36	89	27-023-05251	*CHADCO, INC. Zuspann No. 24-4	215
27-023-05075	WESTERN OIL LANDS, INC. Pennington-Federal No. 5	94	27-023-05252	*TEXACO, INC. Munson Ranch Federal No. 24-2	216
27-023-05076	WESTERN OIL LANDS, INC. Pennington-Federal No. 1	76	27-023-05253	TEXACO, INC. Munson Ranch No. 24-3	217
27-023-05077	WESTERN OIL LANDS, INC. Pennington-Federal No. 2	80	27-023-05254	TEXACO, INC. Munson Ranch No. 13-24	218
27-023-05078	WESTERN OIL LANDS, INC. Pennington-Federal No. 3	82	27-023-05255	NORTHWEST EXPLORATION CO. Trap Spring No. 19	219
27-023-05079	TEXOTA OIL CO. Eagle Springs Unit No. 41-36	96	27-023-05256	TEXACO, INC. Munson Ranch No. 13-42	222
27-023-05080	GOSE, STEVE Government No. 1	81	27-023-05257	*TEXACO, INC. Munson Ranch No. 13-31 (formerly 13-4)	223
27-023-05080-R	WESTERN OIL LANDS, INC. Pennington No. 7	81	27-023-05258	CHADCO, INC. Britton No. 13-21	224
27-023-05086	WESTERN OIL LANDS, INC. Pennington-Federal No. 4	86	27-023-05259	KOCH EXPLORATION CO. Tom Spring No. 2-C	229
27-023-05088	TEXOTA OIL CO. Eagle Springs Unit No. 45-36	88	27-023-05260	NORTHWEST EXPLORATION CO. Warm Springs No. 1	231
27-023-05098	WESTERN OIL LANDS, INC. Pennington-Federal No. 6	98	27-023-05261	NORTHWEST EXPLORATION CO. Trap Spring No. 16	232
27-023-05101	PENNINGTON OIL PRODUCERS Pennington-Pan American No. 1	101	27-023-05262	NORTHWEST EXPLORATION CO. Trap Spring No. 20-X	233
27-023-05103	TRANS WESTERN LANDS, INC. Eagle Springs Unit Penn Tex No. 1	103	27-023-05263	NORTHWEST EXPLORATION CO. Little Meadows No. 1	239
27-023-05199	TEXOTA OIL CO. Eagle Springs Unit No. 1-34	107	27-023-05264	NORTHWEST EXPLORATION CO. Trap Spring No. 21	240
27-023-05200	GULF OIL CORP. Duck Unit No. 3	111	27-023-05265	NORTHWEST EXPLORATION CO. Currant No. 1	241
27-023-05201	*GULF OIL CORP. Duck Unit No. 4	112	27-023-05266	*NORTHWEST EXPLORATION CO. Little Meadows No. 2	242
27-023-05202	GULF OIL CORP. Anderson D. Federal No. 1	113	27-023-05267	FERGUSON & BOSWORTH AND ASSOCIATES (TEXACO, INC.) Munson Ranch No. 11-23	244
27-023-05203	WESTERN OIL LANDS, INC. Pennington No. 8	114	27-023-05268	*TEXACO, INC. Munson Ranch No. 7-13	247
27-023-05204	PAN AMERICAN PETROLEUM CORP. USA Pan American No. 1	115	27-023-05269	*TEXACO, INC. Munson Ranch No. 7-24	248
27-023-05205	TEXOTA OIL CO. Eagle Springs Unit No. 2-34	116	27-023-05270	*TEXACO, INC. Munson Ranch No. 12-44	249
27-023-05206	GULF OIL CORP. Gose "FQ" Federal No. 1	118	27-023-05271	*TEXACO, INC. Munson Ranch No. 13-41	250
27-023-05207	GULF OIL CORP. Gose "DL" Federal No. 1	119	27-023-05272	*TEXACO, INC. Munson Ranch No. 13-44	251
27-023-05208	GULF OIL CORP. Nevada "DK" Federal No. 1	122	27-023-05273	*TEXACO, INC. Munson Ranch Federal No. 18-11	252
27-023-05209	GULF OIL CORP. Gose "BZ" Federal "A" No. 1	124			
27-023-05210	GULF OIL CORP. Gose "EU" Federal No. 1	125			
27-023-05211	GULF OIL CORP. Gose "CD" Federal No. 1	126			
27-023-05212	PAN AMERICAN PETROLEUM CORP. USA McDonald No. 1	127			
27-023-05213	GULF OIL CORP. Russell-Federal No. 1	128			
27-023-05214	PENNINGTON, WM. N. AND WM. V. Pennington-Pan American Big Wash No. 1	129			
27-023-05215	GULF OIL CORP. Standard of California Federal No. 1	130			
27-023-05216	TENNECO OIL CO. GB Core Hole No. 10-A	136			
27-023-05217	SUTHERLAND, A. PAUL Sutherland No. 1	150			
27-023-05218	TENNECO OIL CO. U.S.A.-Shingle Pass No. 1	151			
27-023-05219	NORTHWEST EXPLORATION CO. White River Valley No. 1	179			
27-023-05220	NORTHWEST EXPLORATION CO. Trap Spring No. 1	180			
27-023-05221	NORTHWEST EXPLORATION CO. Blue Eagle No. 1	183			

APPENDIX 2.—Wells listed by API number (continued)

API number	Operator and well	Permit number	API number	Operator and well	Permit number
27-023-05274	*TEXACO, INC. Munson Ranch No. 24-12	253	27-023-05327	AMOCO PRODUCTION CO. White River Unit No. 3	371
27-023-05275	*TEXACO, INC. Munson Ranch No. 24-42	254	27-023-05328	BULLWHACKER OIL, INC. Bullwhacker No. 1	372
27-023-05276	*NORTHWEST EXPLORATION CO. Currant No. 2	256	27-023-05329	WESTERN AVENUE PROPERTIES Munson Ranch No. 13-32	373
27-023-05277	*NORTHWEST EXPLORATION CO. Currant No. 3	257	27-023-05330	MAPCO OIL & GAS CO. Grant Canyon No. 2	374
27-023-05278	*NORTHWEST EXPLORATION CO. Currant No. 4	258	27-023-05331	MAPCO OIL & GAS CO. Grant Canyon No. 3	375
27-023-05279	TEXACO, INC. Duckwater Creek No. 8-12	261	27-023-05332	MAPCO OIL & GAS CO. Grant Canyon No. 4	376
27-023-05280	AMOCO PRODUCTION CO. Bullwhacker Springs No. 1	265	27-023-05333	MARATHON OIL CO. Currant Creek Unit No. 1	378
27-023-05281	SUPRON ENERGY CORP. lease F-27-6-55 No. 1	276	27-023-05334	HUSKY OIL CO. Highway Unit No. 1	379
27-023-05282	*SUPRON ENERGY CORP. lease F-25-5-55 No. 1	277	27-023-05335	MARATHON OIL CO. Duckwater Creek No. 1	380
27-023-05283	SUPRON ENERGY CORP. lease F-2-4-55 No. 1	278	27-023-05336	HARPER OIL CO. Nyala No. 1	381
27-023-05284	SUPRON ENERGY CORP. lease F-18-5-55 No. 1	279	27-023-05336-R	HARPER OIL CO. Nyala No. 1-R	381
27-023-05285	SUPRON ENERGY CORP. lease F-30-4-55 No. 1	280	27-023-05337	WESTERN AVENUE PROPERTIES Munson Ranch No. 13-31	382
27-023-05286	*SUPRON ENERGY CORP. lease F-1-4-55 No. 1	281	27-023-05338	MAPCO OIL & GAS CO. Thorn No. 1	384
27-023-05287	SUPRON ENERGY CORP. lease F-28-8-61 No. 1	275	27-023-05339	*JORDAN OIL & GAS CO. Christian Springs No. 1-33	387
27-023-05288	TEXACO, INC. Munson Ranch No. 14-34	287	27-023-05340	*AMOCO PRODUCTION CO. White River Unit No. 1	389
27-023-05289	NORTHWEST EXPLORATION CO. White River Valley No. 3	290	27-023-05341	*AMOCO PRODUCTION CO. White River Unit No. 2	390
27-023-05290	NORTHWEST EXPLORATION CO. Railroad Valley No. 1	291	27-023-05342	*AMOCO PRODUCTION CO. White River Unit No. 4	391
27-023-05291	NORTHWEST EXPLORATION CO. White River Valley No. 7	293	27-023-05343	*AMOCO PRODUCTION CO. White River Unit No. 5	392
27-023-05292	NORTHWEST EXPLORATION CO. Railroad Valley No. 6	294	27-023-05344	*AMOCO PRODUCTION CO. White River Unit No. 6	393
27-023-05293	NORTHWEST EXPLORATION CO. Railroad Valley No. 7	295	27-023-05345	*AMOCO PRODUCTION CO. White River Unit No. 7	394
27-023-05294	APACHE CORP. Hot Creek Federal No. 24-13	302	27-023-05346	*AMOCO PRODUCTION CO. White River Unit No. 8	395
27-023-05295	NORTHWEST EXPLORATION CO. Trap Spring No. 1-R	303	27-023-05347	MARATHON OIL CO. Beaty Canyon No. 1	396
27-023-05296	NORTHWEST EXPLORATION CO. Railroad Valley No. 4	304	27-023-05348	UNION TEXAS PETROLEUM CORP. Nevada-Federal No. 15-1	398
27-023-05297	NORTHWEST EXPLORATION CO. Railroad Valley No. 3	305	27-023-05349	*UNION TEXAS PETROLEUM CORP. Nevada-Federal No. 15-2	399
27-023-05298	NORTHWEST EXPLORATION CO. Railroad Valley No. 2	306	27-023-05350	MAPCO OIL & GAS CO. Grant Canyon No. 5	400
27-023-05299	NORTHWEST EXPLORATION CO. White River Valley No. 5	307	27-023-05351	HARPER OIL CO. Grant Canyon No. 6	401
27-023-05300	NORTHWEST EXPLORATION CO. White River Valley No. 6	308	27-023-05352	*MAPCO OIL & GAS CO. Grant Canyon No. 7	402
27-023-05301	APACHE CORP. Warm Springs Federal No. 10-14	310	27-023-05353	JAYHAWK EXPLORATION, INC. Koch No. 2-29	405
27-023-05302	*APACHE CORP. Federal No. 3-13	311	27-023-05354	WESTERN AVENUE PROPERTIES Munson Ranch No. 12-34	406
27-023-05303	TEXACO, INC. Munson Ranch No. 14-23	313	27-023-05355	PHILLIPS PETROLEUM CO. Dobbin Creek Federal A No. 1-6	411
27-023-05304	WEXPRO CO. Blue Eagle Unit No. 1	315	27-023-05356	*MAPCO OIL & GAS CO. Stardust No. 1	412
27-023-05305	NORTHWEST EXPLORATION CO. Bacon Flat No. 1	316	27-023-05357	*MAPCO OIL & GAS CO. Grant Canyon No. 9	413
27-023-05306	NORTHWEST EXPLORATION CO. Railroad Valley No. 9	317	27-023-05358	MAPCO OIL & GAS CO. Grant Canyon No. 8	414
27-023-05307	NORTHWEST EXPLORATION CO. Railroad Valley No. 10	318	27-023-05359	CELSIUS ENERGY CO. Duckwater Federal No. 9-1	419
27-023-05308	NORTHWEST EXPLORATION CO. White River Valley No. 4	321	27-023-05360	*WESTERN AVENUE PROPERTIES Munson Ranch No. 12-44	420
27-023-05309	NORTHWEST EXPLORATION CO. Bacon Flat No. 5	325	27-023-05361	MAPCO OIL & GAS CO. Trap Spring No. 17-R	422
27-023-05310	NORTHWEST EXPLORATION CO. Bacon Flat Federal No. 2	326	27-023-05362	WESTERN AVENUE PROPERTIES Munson Ranch No. 12-33	423
27-023-05311	*NORTHWEST EXPLORATION CO. Bacon Flat Federal No. 3	327	27-023-05363	WESTERN AVENUE PROPERTIES Munson Ranch No. 12-24	432
27-023-05312	*NORTHWEST EXPLORATION CO. Bacon Flat Federal No. 4	328	27-023-05364	MARATHON OIL CO. Munson Ranch No. 13-1	435
27-023-05313	*LYDDON, JOHN Eagle Springs No. 81-35	331	27-023-05365	MARATHON OIL CO. Kate Spring No. 1	436
27-023-05314	*APACHE CORP. Hot Creek Federal No. 29-1	338	27-023-05366	WESTERN AVENUE PROPERTIES Munson Ranch No. 12-44X	445
27-023-05315	BUCKHORN PETROLEUM CO. Adobe Federal No. 16-1	343	27-023-05367	MERIDIAN OIL, INC. Spencer Federal No. 32-29	446
27-023-05316	BUCKHORN PETROLEUM CO. Chuckwagon Federal No. 10-14	345	27-023-05368	WESTERN AVENUE PROPERTIES Munson Ranch No. 13-41X	448
27-023-05317	TEXACO, INC. Munson Ranch No. 11-23X	346	27-023-05369	WESTERN AVENUE PROPERTIES J.N. Oil & Gas Federal No. 1	449
27-023-05318	NORTHWEST EXPLORATION CO. Grant Canyon No. 1	353	27-023-05370	*BULLWHACKER OIL, INC. Butterfield No. 1	451
27-023-05319	WESTERN AVENUE PROPERTIES Munson Ranch No. 14-24	454	27-023-05371	*HARPER OIL CO. Cornell No. 4-29	452
27-023-05320	SHELL WESTERN E & P, INC. U.S.A. No. 41-24	362	27-023-05372	HARPER OIL CO. Big Smoke No. 14-20	453
27-023-05321	SHELL OIL CO. U.S.A. No. 34-25	363	27-023-05373	*WESTERN AVENUE PROPERTIES Munson Ranch No. 14-32	455
27-023-05322	*MARATHON OIL CO. Flat Unit No. 1	364	27-023-05374	BTA OIL PRODUCERS Stone Cabin No. 1	456
27-023-05323	HUSKY OIL CO. Willow Spring No. 1	365	27-023-05375	BTA OIL PRODUCERS Stone Cabin No. 2	457
27-023-05324	MARATHON OIL CO. Soda Springs Unit No. 1	366	27-023-05376	MARATHON OIL CO. Shoreline No. 1	463
27-023-05325	HUSKY OIL CO. Big Meadow Unit No. 1	369	27-023-05377	HARPER OIL CO. Nyala No. 6-22-5-55	464
27-023-05326	HUSKY OIL CO. South Trap Spring No. 1	368	27-023-05378	HARPER OIL CO. North Munson Ranch No. 14-6	465
			27-023-05379	*HARPER OIL CO. Nyala No. 1-4-5-55	466
			27-023-05380	MARATHON OIL CO. Reynolds Springs No. 1	468
			27-023-05381	*PIONEER OIL & GAS Crow's Nest No. 14-32	471
			27-023-05382	*PIONEER OIL & GAS Crow's Nest No. 14-42	472

APPENDIX 2.—Wells listed by API number (continued)

API number	Operator and well	Permit number	API number	Operator and well	Permit number
27-023-05383	PIONEER OIL & GAS Crow's Nest No. 23-11	473	27-033-05215	WITTER, GEORGE G., JR. Jake's Wash Unit No. 2	160
27-023-05384	MARATHON OIL CO. Silver Spring No. 1	476	27-033-05216	*McCULLOCH OIL CORP. I.D.S.-Federal No. 1-6	162
27-023-05385	AMOCO PRODUCTION CO. Sunnyside Unit No. 1	478	27-033-05217	*McCULLOCH OIL CORP. I.D.S.-Federal No. 1-9	163
27-023-05386	DIVERSIFIED OPERATING CORP. D.O.C. Federal No. 5-18	480	27-033-05218	*McCULLOCH OIL CORP. I.D.S.-Federal No. 1-20	164
27-023-05387	PIONEER OIL & GAS Willow Springs No. 1-31-33	481	27-033-05219	*McCULLOCH OIL CORP. I.D.S.-Federal No. 1-28	165
27-023-05388	*PIONEER OIL & GAS Lone Tree No. 1-14-43	482	27-033-05220	KEWANEE OIL AND GAS CO. Federal Ely No. 1	167
27-023-05389	*PIONEER OIL & GAS Lone Tree No. 2-23-23	483	27-033-05221	TEXAS AMERICAN OIL CORP. Jake's Wash Unit No. 2A	172
27-027-05000	ARCO OIL & GAS CO. Tobin No. 1	408	27-033-05222	TEXAS AMERICAN OIL CORP. Jake's Wash Unit No. 3	173
27-027-05001	*ARCO OIL & GAS CO. Pleasant Valley No. 1	431	27-033-05223	*COLT OIL, INC. Clay Hills Unit No. 5-1	174
27-031-04999	UNKNOWN Peavine Mountain Well	WA2	27-033-05224	GULF OIL CORP. Jake's Wash Unit No. 4	175
27-031-05000	WASHOE OIL & DEVELOPMENT CO. No. 1	WA1	27-033-05225	SHELL OIL CO. Steptoe Unit No. 1	177
27-033-05000	STANDARD OIL CO. OF CALIFORNIA County Line Unit No. 1	35	27-033-05226	PYRAMID OIL CO. Jake's Wash No. 5	221
27-033-05001	EMPIRE STATE OIL CO. Government No. 1	75	27-033-05227	DOME PETROLEUM CORP. Duck Creek No. 1	225
27-033-05002	SUNTIDE PETROLEUM, INC. Nevada Federal No. 1	53	27-033-05228	DOME PETROLEUM CORP. Grass Springs No. 1	226
27-033-05003	STANDARD-CONOCO Hayden Creek Unit No. 1	WP6	27-033-05229	DOME PETROLEUM CORP. Bastian Creek No. 1	227
27-033-05004	STANDARD-CONOCO Meridian Unit No. 1	WP5	27-033-05230	AMERICAN QUASAR PETROLEUM CO. Long Valley Federal No. 34-1	228
27-033-05005	SUNTIDE PETROLEUM, INC. Nevada Federal "A" No. 1	74	27-033-05231	*TANNEHILL OIL CO. Federal N6533 No. 1	234
27-033-05006	STANDARD-CONOCO Summit Springs Unit No. 1	WP7	27-033-05232	TANNEHILL OIL CO. Federal N6509 No. 1	235
27-033-05007	GULF REFINING CO. Dennison-Federal No. 1	2	27-033-05233	NORTHWEST EXPLORATION CO. Jake's Wash No. 5A	237
27-033-05050	GULF OIL CORP. OF CALIFORNIA Nevada-Federal "O" No. 2	92	27-033-05234	TANNEHILL OIL CO. Federal N6509 No. 2	243
27-033-05051	GULF OIL CORP. OF CALIFORNIA Nevada-Federal "O" No. 1	85	27-033-05235	AMERADA HESS CORP. Federal No. 1-20	262
27-033-05052	GULF OIL CORP. Newark Valley Unit No. 1 (Nevada-Federal CG)	99	27-033-05236	LOUISIANA LAND & EXPLORATION CO. U.S.A.-Steptoe Valley No. 1	267
27-033-05053	GULF OIL CORP. OF CALIFORNIA Nevada-Federal "A" No. 1	90	27-033-05237	NORTHWEST EXPLORATION CO. Illipah No. 1	269
27-033-05054	GULF OIL CORP. OF CALIFORNIA Nevada-Federal "BS" No. 1	93	27-033-05238	CONOCO, INC. Conoco Federal No. 29-1	271
27-033-05055	ILLIPAH PETROLEUM SYNDICATE No. 1	WP1	27-033-05239	NORTHWEST EXPLORATION CO. White River No. 2	274
27-033-05056	ILLIPAH PETROLEUM SYNDICATE No. 2	WP2	27-033-05240	DOME PETROLEUM CORP. Yelland No. 1	283
27-033-05057	ILLIPAH PETROLEUM SYNDICATE No. 3	WP4	27-033-05241	GARY, SAMUEL OIL PRODUCER Federal No. 30-10	286
27-033-05058	ILLIPAH PETROLEUM SYNDICATE No. 4	WP3	27-033-05242	CONOCO, INC. Conoco Federal 8 No. 1	288
27-033-05059	EL PASO NATIONAL GAS CO. Long Valley No. 35-88	102	27-033-05243	AMERICAN HUNTER EXPLORATION Black Jack Springs Federal No. 1	300
27-033-05060	RIGGS, HARRY Robber's Roost No. 28-76	104	27-033-05244	DOME PETROLEUM CORP. Steptoe Federal No. 1-24	314
27-033-05062	TENNECO OIL CO. Illipah Federal No. 1	109	27-033-05245	COMMODORE RESOURCES Outlaw Federal No. 1	337
27-033-05078	EMPIRE STATE OIL CO. Government (Indian Springs) No. 1	78	27-033-05246	*APACHE CORP. Federal No. 9-1	340
27-033-05200	ROSS, DWIGHT M. Federal No. 1	110	27-033-05247	*APACHE CORP. Federal No. 35-1	341
27-033-05201	GULF OIL CORP. OF CALIFORNIA Gose "DQ" Federal "A" No. 1	120	27-033-05248	*TRUE OIL CO. Black Jack No. 1-3	386
27-033-05202	TENNECO OIL CO. GB Core Hole No. 6	134	27-033-05249	PLACID OIL CO. Steptoe Federal No. 17-14	397
27-033-05203	TENNECO OIL CO. GB Core Hole No. 9	135	27-033-05250	MARLIN OIL CO. Federal No. 1-5	403
27-033-05204	*TENNECO OIL CO. GB Core Hole No. 11	137	27-033-05251	HARPER OIL CO. Conoco Federal No. 19-1	409
27-033-05205	*TENNECO OIL CO. GB Core Hole No. 15	139	27-033-05252	AMOCO PRODUCTION CO. Stage Line Unit No. 1-A	427
27-033-05206	*TENNECO OIL CO. GB Core Hole No. 1	140	27-033-05254	RAM RESOURCES, INC. Long Jevity Federal No. 1	437
27-033-05207	TENNECO OIL CO. GB Core Hole No. 2	141	27-033-05255	RAM RESOURCES, INC. Long Shot Federal No. 1	438
27-033-05208	TENNECO OIL CO. GB Core Hole No. 3	142	27-033-05256	TRUE OIL CO. Panos Federal No. 44-33	439
27-033-05209	TENNECO OIL CO. GB Core Hole No. 4	143	27-033-05257	TRUE OIL CO. Pon Federal No. 44-14	440
27-033-05210	*TENNECO OIL CO. GB Core Hole No. 7-B	144	27-033-05258	TRUE OIL CO. Hendrickson Federal No. 43-35	441
27-033-05211	WITTER, GEORGE G., JR. Jake's Wash Unit No. 1	152	27-033-05259	TRUE OIL CO. Langley Federal No. 14-28	444
27-033-05212	*KNOWLES, C. E. & DARLING, RALPH Federal No. 1-35	153	27-033-05260	TRUE OIL CO. Shields Federal No. 13-22	460
27-033-05213	*KNOWLES, C. E. & DARLING, RALPH Long Valley Federal No. 35-88	154	27-033-05261	*HNG OIL CO. Black Mountain No. 36-1	469
27-033-05214	GUADALUPE EXPLORATION CORP. Long Valley No. 1	157	27-033-05263	TRUE OIL CO. Roark Federal No. 12-10	474
			27-033-05264	TRUE OIL CO. Roark Federal No. 13-11	475

*Well not drilled.

APPENDIX 3.—Wells listed by operator name

Operator and well	County	Operator and well	County
AMERADA HESS CORP.		BUCKHORN PETROLEUM CO.	
Federal No. 1-20	White Pine	Adobe Federal No. 16-1	Nye
AMERICAN HUNTER EXPLORATION		BUCKHORN PETROLEUM CO.	
Black Jack Springs Federal No. 1	White Pine	Chuckwagon Federal No. 10-14	Nye
AMERICAN QUASAR PETROLEUM CO.		BULL RUN OIL & GAS CO.	
Long Valley Federal No. 34-1	White Pine	No. 1	Elko
AMERICAN QUASAR PETROLEUM CO.		BULLWHACKER OIL, INC.	
OF NEW MEXICO		Bullwhacker No. 1	Nye
Adobe Federal No. 19-1	Lincoln	CABANA OIL COMPANY	
AMINOIL U.S.A., INC.		Federal No. 1-30	Eureka
S.P. Land Company No. 1-23	Elko	CALIFORNIA EXCELSIER CO.	
AMOCO PRODUCTION CO.		McNett Ranch No. 1	Esmeralda
Big Pole Creek No. 1	Eureka	CALNEVA OIL CO.	
Blackburn No. 1	Eureka	Way Bros. No. 1	Churchill
Blackburn No. 2	Eureka	CARR AND WRATH, INC.	
Blackburn No. 3	Eureka	Federal No. 1	Eureka
Blackburn No. 4	Eureka	CELSIUS ENERGY CO.	
Blackburn No. 5	Eureka	Duckwater Federal No. 9-1	Nye
Blackburn No. 6	Eureka	CHADCO, INC.	
Blackburn No. 10	Eureka	Britton No. 13-21	Nye
Blackburn No. 12	Eureka	Pennington No. 22-1	Nye
Blackburn No. 14	Eureka	Zuspann No. 24-1	Nye
Blackburn No. 15	Eureka	Zuspann No. 24-3	Nye
Blackburn No. 16	Eureka	CHEVRON OIL CO.	
Bullwhacker Springs No. 1	Nye	ATR Ginn No. 1-13	Lander
Dutch John Unit No. 1	Lincoln	CHEVRON U.S.A., INC.-MICHEL T. HALBOUTY	
East Bailey Ranch No. 1	Eureka	ENERGY CO.	
East Henderson Creek No. 1	Eureka	Colorock Quarry No.1	Clark
Garden Valley No. 1	Lincoln	CHURCHILL DRILLING CORP.	
Huntington Creek No. 1	Elko	Barbara No. 1	Churchill
Stage Line Unit No. 1-A	White Pine	Churchill County No. 1	Churchill
Sunnyside Unit No. 1	Nye	Ernst No. 1	Churchill
White River Unit No. 3	Nye	Ernst No. 1-A	Churchill
APACHE CORP.		Ernst No. 2	Churchill
Hot Creek Federal No. 24-13	Nye	Evelyn No. 1	Churchill
Warm Springs Federal No. 10-14	Nye	Lima No. 1	Churchill
ARCO OIL & GAS CO.		Reggie No. 1	Churchill
Antelope Valley No. 1	Lander	Stewart No. 1	Churchill
Stag Mountain No. 1	Elko	T.C.I.D. No. 1	Churchill
Tobin No. 1	Pershing	Williams No. 1	Churchill
ASH, W. F.		CITIES SERVICE CO.	
Damele Brothers No. 2	Eureka	Federal BL No. 1	Elko
ATLANTIC INTERNATIONAL OIL CORP.		COMMODORE RESOURCES	
Dalton No. 1	Elko	Outlaw Federal No. 1	White Pine
BTA OIL PRODUCERS		COMMONWEALTH OIL CO. No. 1	Clark
Stone Cabin No. 1	Nye	CONOCO, INC.	
Stone Cabin No. 2	Nye	Conoco Federal 8 No. 1	White Pine
BANDINI PETROLEUM CO.		Conoco Federal No. 29-1	White Pine
Harris Government No. 1	Nye	COUNCIL OIL CO.	
BANNISTER, E. W.		No. 1	Churchill
No. 1	Clark	DEPCO, INC.	
BEYERBACK, CHARLES (Moab Drilling Company)		Silver State Federal No. 33-18	Eureka
No. 1	Eureka	Ventosa Unit No. 42-13	Elko
BIG BASIN OIL CO.		Willow Wash Federal No. 42-24	Eureka
Government No. 1	Clark	DIAMOND OIL CO.	
BLACK GOLD OIL AND GAS EXPLORATION CO.		Conquest No. 1	Elko
INTERMOUNTAIN ASSOCIATION		Diamond Valley No. 1	Elko
No. 1 (Golden Spike)	Clark	Diamond Valley No. 2	Elko
BLACK ROCK OIL, GAS, REFINING & DEVELOPMENT CO.		Diamond Valley No. 3	Elko
No. 1	Humboldt	No. 1	Churchill
BLALACK DRILLING CO.		DIAMOND SHAMROCK EXPLORATION COMPANY	
Voorhees No. 1	Lander	Kimbark Federal No. 1-28	Elko
BONANZA OIL CO.		Magnuson Fee No. 22-21	Elko
Arden Dome No. 1 (Consolidated Government		DIVERSIFIED OPERATING CORP.	
No. 1)	Clark	D.O.C. Federal No. 5-18	Nye
BOSWELL ENERGY CORP.		DIXIE VALLEY LTD. PARTNERSHIP	
Big Pole Creek No. 1-11	Eureka	Ernst No. 1	Churchill
BRAY, OSCAR		DOMESTIC PETROLEUM CORP.	
No. 1	Clark	Bastian Creek No. 1	White Pine
BRENT ENERGY, INC.		Duck Creek No. 1	White Pine
Shogrin Federal No. 1	Lincoln	Grass Springs No. 1	White Pine
BROWN, JOE W.		Steptoe Federal No. 1-24	White Pine
Wilson No. 1	Clark	Yelland No. 1	White Pine

APPENDIX 3.—Wells listed by operator name (continued)

Operator and well	County	Operator and well	County
DR. EBY	Elko	Gose "FQ" Federal No. 1	Nye
EARTH RESOURCES AND TECHNOLOGY, INC.		Jake's Wash Unit No. 4	White Pine
Thomas Gap Federal No. JP-1	Clark	Nevada "DK" Federal No. 1	Nye
EBERT, JAMES & NEPPLE, EDWARD		Nevada-Federal CM No. 1	Lincoln
Government No. 1	Eureka	Newark Valley Unit No. 1 (Nevada-Federal CG)	White Pine
EL PASO NATIONAL GAS CO.		Nyala Unit No. 1	Nye
Long Valley No. 35-88	White Pine	Russell-Federal No. 1	Nye
ELKO OIL & DEVELOPMENT IMPROVEMENT CO.		Standard of California Federal No. 1	Nye
No. 1	Elko	GULF OIL CORP. OF CALIFORNIA	
EMPIRE STATE OIL CO.		Gose "DQ" Federal "A" No. 1	White Pine
Government (Indian Springs) No. 1	White Pine	Nevada-Federal "A" No. 1	White Pine
EMPIRE STATE OIL CO.		Nevada-Federal "BS" No. 1	White Pine
Government No. 1	White Pine	Nevada-Federal "O" No. 1	White Pine
EQUALITY OIL CO. (ARDEN DOME OIL CO.)		Nevada-Federal "O" No. 2	White Pine
Chadek No. 1	Clark	Owl Hill Federal No. 1	Elko
EUREKA OIL & GAS COMPANY		GULF REFINING CO.	
Pine Valley No. 1	Eureka	Dennison-Federal No. 1	White Pine
EXXON CORP.		Dolly Varden Unit No. 1	Elko
Four Mile Butte Federal No. 1	Elko	Mary's River Federal No. 1	Elko
FALLON EXTENSION OIL & GAS CO.		Pete Itcaina No. 1	Elko
No. 1	Churchill	Thousand Springs No. 1	Elko
FALLON NEVADA OIL CO.		Wilkins Ranch No. 1	Elko
No. 1	Churchill	Wilkins Ranch No. 2	Elko
FALLON OIL & GAS CO.		HAEBER, JOHN H. Adam No. 1	Clark
No. 1	Churchill	HALBOUTY, MICHAEL T.	
No. 1-A	Churchill	Federal No. 1	Churchill
No. 2	Churchill	HALL CO., FRANK	
No. 2-A	Churchill	No. 1	Clark
FALLON PIONEER OIL CO.		HARPER OIL CO.	
No. 1	Churchill	Big Smoke No. 14-20	Nye
FALLON UNION OIL CO.		Conoco Federal No. 19-1	White Pine
No. 1	Churchill	Grant Canyon No. 6	Nye
FERGUSON & BOSWORTH AND ASSOCIATES		North Munson Ranch No. 14-6	Nye
(TEXACO, INC.)		Nyala No. 1	Nye
Munson Ranch No. 11-23	Nye	Nyala No. 1-R	Nye
FILON EXPLORATION CO.		Nyala No. 6-22-5-55	Nye
Ellison No. 1	Elko	HART, E. W.	
FISH LAKE MERGER OIL CO.		No. 1	Churchill
No. 1	Esmeralda	HATFIELD, L. M.	
FISH LAKE OIL CO.		No. 1	Clark
Coaldale Well	Esmeralda	HUMBOLDT ASSOCIATES	
FLEETWOOD OIL & GAS CORP.		Ellison No. 1	Humboldt
Fleetwood Federal Eva Garten No. 1	Clark	Ellison No. 2	Humboldt
Fleetwood Federal Ger No. 1	Clark	HUNT OIL CO.	
FLETCHER, C. H.		Mary's River Federal No. 1-8	Elko
Fletcher No. 1	Lincoln	Walter L. Plaskett No. 1	Eureka
G AND G EXPLORATION CO.		HUNT OIL CO. OF NEVADA	
No. 1	Clark	Diamond Valley Federal No. 1-24	Eureka
GARY, SAMUEL OIL PRODUCER		Diamond Valley No. 1-11	Eureka
Federal No. 30-10	White Pine	F. W. Hooper No. 1	Elko
GETTY OIL COMPANY		HUSKY OIL CO.	
Nost I No. 1	Eureka	Big Meadow Unit No. 1	Nye
GOODSPRINGS OIL CO.		Highway Unit No. 1	Nye
No. 1	Clark	South Trap Spring No. 1	Nye
GOSE, STEVE		Willow Spring No. 1	Nye
Government No. 1	Nye	ILLIPAH PETROLEUM SYNDICATE	
GRACE PETROLEUM CORP.		No. 1	White Pine
Arrow Canyon No. 1	Clark	No. 2	White Pine
GRIMM, JACK F. (MINERALS DRILLING INC.)		No. 3	White Pine
Wilson No. 1	Clark	No. 4	White Pine
GUADALUPE EXPLORATION CORP.		INLAND OIL CO.	
Long Valley No. 1	White Pine	Itcaina No. 1	Elko
GULF OIL CORP.		Itcaina No. 2	Elko
Anderson D. Federal No. 1	Nye	Itcaina No. 3	Elko
Cave Valley Unit Federal No. 1	Lincoln	INTERMOUNTAIN ASSOCIATES, INC.	
Duck Unit No. 1	Nye	Arden Dome No. 1 (No. 1-X)	Clark
Duck Unit No. 2	Nye	No. 2 (Jean)	Clark
Duck Unit No. 3	Nye	IWING, JOSEPH & ASSOCIATES	
Gose "BZ" Federal "A" No. 1	Nye	Petresia No. 1	Clark
Gose "CD" Federal No. 1	Nye	JAYHAWK EXPLORATION, INC.	
Gose "DL" Federal No. 1	Nye	Federal-Indian Springs No. 1	Clark
Gose "EU" Federal No. 1	Nye	Koch No. 2-29	Nye

continued

APPENDIX 3.—Wells listed by operator name (continued)

Operator and well	County	Operator and well	County
KAMARDEN OIL AND GAS LTD.		No. 2	Clark
KOG No. 1	Clark	No. 5	Clark
KEWANEE OIL AND GAS CO.		No. 3	Clark
Federal Ely No. 1	White Pine	No. 4	Clark
KOCH EXPLORATION CO.		No. 6	Clark
Tom Spring No. 2-C	Nye	NEWMAN, CARL	
LADD PETROLEUM CORP.		Austin No. 1	Lander
Federal No. 1-31-N	Elko	NORTHWEST EXPLORATION CO.	
Nevelko No. 1	Elko	Bacon Flat Federal No. 2	Nye
LAHONTAN OIL SYNDICATE		Bacon Flat No. 1	Nye
No. 1	Churchill	Bacon Flat No. 5	Nye
LAST CHANCE OIL CO.		Blue Eagle No. 1	Nye
Crystal No. 1	Clark	Currant No. 1	Nye
LAST FRONTIER OIL CO.		Grant Canyon No. 1	Nye
Damele No. 1	Eureka	Illipah No. 1	White Pine
Government No. 1	Elko	Jake's Wash No. 5A	White Pine
LICHTENWALTER, S. J. & TURPIN, C. M.		Little Meadows No. 1	Nye
Turpin No. 1	Clark	Railroad Valley No. 1	Nye
LOUISIANA LAND & EXPLORATION CO.		Railroad Valley No. 2	Nye
U.S.A.-Steptoe Valley No. 1	White Pine	Railroad Valley No. 3	Nye
MAPCO OIL & GAS CO.		Railroad Valley No. 4	Nye
Grant Canyon No. 3	Nye	Railroad Valley No. 6	Nye
Grant Canyon No. 4	Nye	Railroad Valley No. 7	Nye
Grant Canyon No. 8	Nye	Railroad Valley No. 9	Nye
Grant Canyon No. 2	Nye	Railroad Valley No. 10	Nye
Thorn No. 1	Nye	Trap Spring No. 1	Nye
Trap Spring No. 17-R	Nye	Trap Spring No. 1-R	Nye
Grant Canyon No. 5	Nye	Trap Spring No. 2	Nye
MARATHON OIL CO.		Trap Spring No. 3	Nye
Beaty Canyon No. 1	Nye	Trap Spring No. 4	Nye
Currant Creek Unit No. 1	Nye	Trap Spring No. 7	Nye
Duckwater Creek No. 1	Nye	Trap Spring No. 8	Nye
Kate Spring No. 1	Nye	Trap Spring No. 9	Nye
Munson Ranch No. 13-1	Nye	Trap Spring No. 10	Nye
Reynolds Springs No. 1	Nye	Trap Spring No. 13	Nye
Shoreline No. 1	Nye	Trap Spring No. 15	Nye
Silver Spring No. 1	Nye	Trap Spring No. 16	Nye
Soda Springs Unit No. 1	Nye	Trap Spring No. 17	Nye
MARLIN OIL CO.		Trap Spring No. 19	Nye
Federal No. 1-4	Elko	Trap Spring No. 20-X	Nye
Federal No. 1-5	White Pine	Trap Spring No. 21	Nye
MATADOR OIL CO.		Warm Springs No. 1	Nye
No. 29-1X	Clark	White River No. 2	White Pine
McAULEY ASSOCIATES		White River Valley No. 1	Nye
No. 1	Clark	White River Valley No. 3	Nye
No. 2	Clark	White River Valley No. 4	Nye
MCCARTHY OIL CO.		White River Valley No. 5	Nye
Rahas No. 1	Elko	White River Valley No. 6	Nye
MERIDIAN OIL, INC.		White River Valley No. 7	Nye
Spencer Federal No. 32-29	Nye	OVERLAND PETROLEUM CO., INC.	
MERRITT ARMSTRONG WELL	Elko	Munson Ranch Federal No. 31-1	Nye
MID-CENTRAL DRILLING CO.		PAN AMERICAN PETROLEUM CORP.	
Orwitz No. 1	Lander	Cobre Minerals Corp. No. 1	Elko
MOAPA NEVADA OIL & GAS CO.		U.S.A. Franklin No. 1	Elko
Logandale No. 1	Clark	U.S.A. Jiggs No. 1	Elko
MOBIL OIL CORP.		U.S.A. McDonald No. 1	Nye
Virgin River U.S.A. No. 1	Clark	U.S.A. Pan American No. 1	Nye
Virgin River U.S.A. No. 1-A	Clark	PEASE, WILLARD DRILLING CO.	
MONTE CRISTO OIL CO.		Federal No. 1	Lincoln
Wm. Wright No. 1	Esmeralda	PENNINGTON OIL PRODUCERS	
NEVADA COAL & OIL CO.	Lyon	Pennington-Pan American No. 1	Nye
NEVADA EXPLORATION CO.		PENNINGTON, WM. N. AND WM. V.	
Porter No. 1	Clark	Pennington-Pan American Big Wash No. 1	Nye
NEVADA GAS LANDS, INC.		PERMIAN OIL CO.	
Bono No. 11	Churchill	Schwartz No. 1	Clark
Helen No. 1	Churchill	PHELPS, C. P.	
NEVADA OIL & GAS CO.		Phelps No. 1	Clark
Government No. 1	Lander	PHILLIPS PETROLEUM CO.	
NEVADA OIL & MINERALS, INC.		Dobbin Creek Federal A No. 1-6	Nye
V.R.S. No. 1	Esmeralda	Stoneberger Creek Federal A No. 1-35	Lander
NEW HAVEN OIL CO.		PIONEER OIL & GAS	
No. 1	Clark	Crow's Nest No. 23-11	Nye

APPENDIX 3.—Wells listed by operator name (continued)

Operator and well	County	Operator and well	County
Willow Springs No. 1-31-33	Nye	Summit Springs Unit No. 1	White Pine
Lone Tree No. 1-14-43	Nye	SUN EXPLORATION & PRODUCTION CO.	
Lone Tree No. 2-23-23	Nye	Blue Diamond Federal No. 1	Clark
PLACID OIL CO.		Elko Hills No. 1	Elko
Steptoe Federal No. 17-14	White Pine	King Lear Federal No. 1-17	Humboldt
PYRAMID OIL CO.		Shafter Federal No. 1	Elko
Jake's Wash No. 5	White Pine	Southern Pacific No. 3-13	Elko
U.S. Government No. NS 33-3	Nye	Toano Federal No. 1	Elko
PIERCE, R. C.		SUN OIL CO. (SUN EXPLORATION & PRODUCTION CO.)	
Halstead No. 1	Nye	Southern Pacific No. 1	Elko
RAM RESOURCES, INC.		SUNTIDE PETROLEUM, INC.	
Long Jevity Federal No. 1	White Pine	Nevada Federal "A" No. 1	White Pine
Long Shot Federal No. 1	White Pine	Nevada Federal No. 1	White Pine
RED STAR OIL CO.		SUPRON ENERGY CORP.	
J. B. Nelson No. 1	Clark	lease F-2-4-55 No. 1	Nye
RED STAR OIL CO. (J. B. NELSON)		lease F-18-5-55 No. 1	Nye
J. B. Nelson No. 2	Clark	lease F-27-6-55 No. 1	Nye
REDI CORP.		lease F-28-8-61 No. 1	Nye
Gold Butte KPS Fed. No. 1	Clark	lease F-30-4-55 No. 1	Nye
RICHFIELD OIL CORP.		SUTHERLAND, A. PAUL	
Rabbit Creek Unit No. 1	Elko	Sutherland No. 1	Nye
Scott-Ogilvie No. 1	Elko	SYNDICATE OIL CO.	
RIGGS, HARRY		No. 1	Churchill
Robber's Roost No. 28-76	White Pine	TANNEHILL OIL CO.	
ROSEN OIL CO.		Federal N6509 No. 1	White Pine
Muddy Dome No. 1	Clark	Federal N6509 No. 2	White Pine
ROSS, DWIGHT M.		TAYLOR, JACK	
Federal No. 1	White Pine	Government No. 1	Eureka
SANDIA INTERNATIONAL METALS CORP.		Government No. 2	Eureka
Duff No. 1	Clark	Government No. 3	Eureka
SASTEX OIL & GAS		TENNECO OIL CO.	
Jones No. 1	Clark	GB Core Hole No. 2	White Pine
SHELL OIL CO.		GB Core Hole No. 3	White Pine
Bowl of Fire Unit No. 1	Clark	GB Core Hole No. 4	White Pine
Coyote Unit No. 1	Nye	GB Core Hole No. 6	White Pine
Diamond Valley Unit No. 1	Eureka	GB Core Hole No. 9	White Pine
Eagle Springs Unit No. 1-35	Nye	GB Core Hole No. 10-A	Nye
Eagle Springs Unit No. 2	Nye	GB Core Hole No. 13	Lincoln
Eagle Springs Unit No. 3	Nye	Illipah Federal No. 1	White Pine
Eagle Springs Unit No. 4	Nye	U.S.A.-Shingle Pass No. 1	Nye
Eagle Springs Unit No. 15-35	Nye	TEXACO, INC.	
Eagle Springs Unit No. 17-34	Nye	Crane Springs No. 19-13	Elko
Eagle Springs Unit No. 35-35	Nye	Duckwater Creek No. 8-12	Nye
Eagle Springs Unit No. 45-5	Nye	Federal No. 1	Lincoln
Eagle Springs Unit No. 54-4	Nye	TEXACO, INC. (FERGUSON & BOSWORTH AND ASSOCIATES)	
Eagle Springs Unit No. 58-26	Nye	Munson Ranch Federal No. 14-1	Nye
Eagle Springs Unit No. 62-35	Nye	TEXACO, INC.	
Eagle Springs Unit No. 81-35	Nye	Munson Ranch No. 11-23X	Nye
Goshute Unit No. 1	Elko	Munson Ranch No. 13-24	Nye
Howell No. 42-1	Elko	Munson Ranch No. 13-33	Nye
Lockes Unit No. 1	Nye	Munson Ranch No. 13-42	Nye
Mary's River Federal No. 1	Elko	Munson Ranch No. 14-23	Nye
Steptoe Unit No. 1	White Pine	Munson Ranch No. 14-34	Nye
U.S.A. No. 34-25	Nye	Munson Ranch No. 24-1	Nye
SHELL WESTERN E & P, INC.		Munson Ranch No. 24-3	Nye
U.S.A. No. 41-24	Nye	Munson Ranch No. 24-4	Nye
SMITHDEAL, W. T., JR.		TEXAS AMERICAN OIL CORP.	
U.S. Lease No. 1	Clark	Jake's Wash Unit No. 2A	White Pine
SOHIO PETROLEUM CO.		Jake's Wash Unit No. 3	White Pine
Ruby Valley Unit No. 1	Elko	TEXOTA OIL CO.	
SOUTHERN GREAT BASIN OIL & GAS, INC.		Eagle Springs Unit No. 1-34	Nye
Government No. 1	Clark	Eagle Springs Unit No. 2-34	Nye
SOUTHERN NEVADA OIL INVESTORS CO. (POZIL, JOHNSON, AND KRUG)		Eagle Springs Unit No. 17-35	Nye
Apex No. 1	Clark	Eagle Springs Unit No. 41-36	Nye
STANDARD OIL CO.		Eagle Springs Unit No. 43-36	Nye
Standard-Amoco-S.P. Land Co. No. 1	Churchill	Eagle Springs Unit No. 45-36	Nye
STANDARD OIL CO. OF CALIFORNIA		Eagle Springs Unit No. 73-35	Nye
County Line Unit No. 1	White Pine	Eagle Springs Unit No. 74-35	Nye
STANDARD-CONOCO		Eagle Springs Unit No. 84-35	Nye
Hayden Creek Unit No. 1	White Pine	Eagle Springs Unit No. 85-35	Nye
Meridian Unit No. 1	White Pine		

continued

APPENDIX 3.—Wells listed by operator name (continued)

Operator and well	County	Operator and well	County
TEXXON INVESTMENTS, INC./WIL-O-EXPLORATION		WEST END OPETECA	
Texxon No. 2	Elko	Federal U.S. No. 28-1	Nye
THORPE, H. B.		WESTERN AVENUE PROPERTIES	
Carson Sink No. 1	Churchill	J.N. Oil & Gas Federal No. 1	Nye
TIME PETROLEUM INC.		Munson Ranch No. 12-24	Nye
Federal No. 31-1	Clark	Munson Ranch No. 12-33	Nye
TRANS WESTERN LANDS, INC.		Munson Ranch No. 12-34	Nye
Eagle Springs Unit Penn Tex No. 1	Nye	Munson Ranch No. 12-44X	Nye
TRANS-WORLD OIL CO.		Munson Ranch No. 13-31	Nye
Houssels-Wilson-Milka No. 1	Clark	Munson Ranch No. 13-32	Nye
TRI-STATE OIL EXPLORATION CO.		Munson Ranch No. 13-41X	Nye
Miskell-Gov't No. 1	Clark	Munson Ranch No. 14-24	Nye
TRUE OIL CO.		WESTERN OIL LANDS, INC.	
Hendrickson Federal No. 43-35	White Pine	Pennington No. 7	Nye
Langley Federal No. 14-28	White Pine	Pennington No. 8	Nye
Panos Federal No. 44-33	White Pine	Pennington-Federal No. 1	Nye
Pon Federal No. 44-14	White Pine	Pennington-Federal No. 2	Nye
Roark Federal No. 12-10	White Pine	Pennington-Federal No. 3	Nye
Roark Federal No. 13-11	White Pine	Pennington-Federal No. 4	Nye
Shields Federal No. 13-22	White Pine	Pennington-Federal No. 5	Nye
U.S. OIL CO. (MATADOR OIL CO.)		Pennington-Federal No. 6	Nye
Wilson No. 1X	Clark	WESTERN OSAGE OIL, INC.	
UNION OIL CO.		Government No. 1	Elko
S.P. Brady No. 1	Churchill	WESTERN PACIFIC RAILROAD CO.	
UNION TEXAS PETROLEUM CORP.		Sulphur-M.P. 474.67	Humboldt
Nevada-Federal No. 15-1	Nye	WEXPRO CO.	
UNITED PETROLEUM CORP.		Blue Eagle Unit No. 1	Nye
Apex No. 1	Clark	Cord No. 24-1	Elko
UNKNOWN		Jiggs No. 10-1	Elko
Peavine Mountain Well	Washoe	Jiggs Unit No. 2	Elko
VOORHEES, JESS H.		WIL-O-EXPLORATION	
No. 1 Fee Well	Lander	Farnes No. 1	Elko
No. 1S	Lander	Farnes No. 2	Elko
No. 2 Fee Well	Lander	WIL-O-EXPLORATION/TEXXON INVESTMENTS, INC.	
No. 2S	Lander	Texxon No. 1	Elko
No. 3S	Lander	WILSON, L. R.	
No. 4S	Lander	Government No. 1	Clark
No. 5S	Lander	Government No. 1-A	Clark
No. 6S	Lander	WITTER, GEORGE G., JR.	
W.C. CO.		Jake's Wash Unit No. 1	White Pine
No. 1	Nye	Jake's Wash Unit No. 2	White Pine
No. 1-X	Nye	WRIGHT EXPLORATION	
WASHOE OIL & DEVELOPMENT CO.		Federal No. 26-1	Esmeralda
No. 1	Washoe	YERINGTON OIL & GAS CO.	Lyon

APPENDIX 4.—Nevada oil production statistics

Nevada Oil Production by Fields

(barrels)

(table begins with 1976; earlier state totals are equal to the Eagle Springs field totals, as it was the only producing field until November of 1976)

	Eagle Springs	Trap Spring	Currant	Bacon Flat	Blackburn	Grant Canyon	Kate Spring	Total Nevada	Cumulative Total
1976	January	8,870						8,870	2,982,454
	February	6,689						6,689	2,989,143
	March	7,796						7,796	2,996,939
	April	7,451						7,451	3,004,390
	May	9,004						9,004	3,013,394
	June	9,718						9,718	3,023,112
	July	14,351						14,351	3,037,463
	August	13,216						13,216	3,050,679
	September	11,269						11,269	3,061,948
	October	11,831						11,831	3,073,779
	November	11,953	2,139					14,092	3,087,871
	December	11,898	16,916					28,814	3,116,685
	TOTAL	124,046	19,055					143,101	
1977	January	11,854	14,991					26,845	3,143,530
	February	10,592	29,074					39,666	3,183,196
	March	11,132	24,357					35,489	3,218,685
	April	10,590	22,900					33,490	3,252,175
	May	10,275	31,647					41,922	3,294,097
	June	11,643	31,401					43,044	3,337,141
	July	12,290	44,093					56,383	3,393,524
	August	8,805	59,948					68,753	3,462,277
	September	6,479	67,681					74,160	3,536,437
	October	7,215	100,798					108,013	3,644,450
	November	7,691	69,981					77,672	3,722,122
	December	3,745	51,745					55,490	3,777,612
	TOTAL	112,311	548,616					660,927	
1978	January	6,800	61,749					68,549	3,846,161
	February	5,487	65,911					71,398	3,917,559
	March	7,729	39,129					46,858	3,964,417
	April	3,588	74,974					78,562	4,042,979
	May	5,889	94,532					100,421	4,143,400
	June	6,547	101,882					108,429	4,251,829
	July	7,208	109,060					116,268	4,368,097
	August	8,622	100,677					109,299	4,477,396
	September	6,877	119,100					125,977	4,603,373
	October	6,534	113,720					120,254	4,723,627
	November	2,055	104,459					106,514	4,830,141
	December	3,777	106,331					110,108	4,940,249
	TOTAL	71,113	1,091,524					1,162,637	
1979	January	1,362	98,696					100,058	5,040,307
	February	4,645	86,795	135				91,575	5,131,882
	March	8,292	92,696	106				101,094	5,232,976
	April	5,803	98,911	357				105,071	5,338,047
	May	5,504	114,092	26				119,622	5,457,669
	June	8,882	99,998	0				108,880	5,566,549
	July	8,783	103,263	11				112,057	5,678,606
	August	10,373	98,350	0				108,723	5,787,329
	September	8,674	91,594	0				100,268	5,887,597
	October	7,809	92,381	0				100,190	5,987,787
	November	7,176	87,976	0				95,152	6,082,939
	December	6,941	85,833	0				92,774	6,175,713
	TOTAL	84,244	1,150,585	635				1,235,464	
1980	January	8,411	87,652	0				96,063	6,271,776
	February	7,608	81,154	0				88,762	6,360,538
	March	7,735	82,979	0				90,714	6,451,252
	April	6,636	74,580	0				81,216	6,532,468
	May	8,034	70,244	0				78,278	6,610,746
	June	6,851	64,633	0				71,484	6,682,230
	July	7,855	62,371	0				70,226	6,752,456
	August	8,022	61,603	0				69,625	6,822,081
	September	7,607	55,554	0				63,161	6,885,242
	October	9,098	55,661	0				64,759	6,950,001
	November	7,817	38,897	0				46,714	6,996,715
	December	8,003	52,414	0				60,417	7,057,132
	TOTAL	93,677	787,742	0				881,419	
1981	January	7,724	60,829	0				68,553	7,125,685
	February	6,186	50,303	0				56,489	7,182,174
	March	6,908	50,929	0				57,837	7,240,011
	April	6,362	50,791	0				57,153	7,297,164
	May	5,248	50,679	0				55,927	7,353,091
	June	8,016	49,054	0				57,070	7,410,161
	July	6,179	47,511	0	2,732			56,422	7,466,583
	August	5,047	49,309	0	3,730			58,086	7,524,669
	September	5,710	49,374	0	5,155			60,239	7,584,908
	October	4,314	47,333	0	5,846			57,493	7,642,401
	November	6,132	48,365	0	5,325			59,822	7,702,223
	December	4,610	45,950	0	4,543			55,103	7,757,326
	TOTAL	72,436	600,427	0	27,331			700,194	

continued

APPENDIX 4.—Nevada oil production statistics (continued)

Nevada Oil Production by Fields (continued)

(table begins with 1976; earlier state totals are equal to the Eagle Springs field totals, as it was the only producing field until November of 1976)

		Eagle Springs	Trap Spring	Currant	Bacon Flat	Blackburn	Grant Canyon	Kate Spring	Total Nevada	Cumulative Total
1982	January	3,819	46,498	0	4,842				55,159	7,812,485
	February	1,401	40,115	0	4,117				45,633	7,858,118
	March	2,967	44,326	0	4,147				51,440	7,909,558
	April	2,838	41,357	0	3,756	2,984			50,935	7,960,493
	May	948	40,828	0	3,268	2,369			47,413	8,007,906
	June	2,309	38,327	0	2,902	8,538			52,076	8,059,982
	July	5,954	38,086	0	2,667	216			46,823	8,106,805
	August	6,436	38,870	0	2,492	1,230			49,028	8,155,833
	September	5,674	37,267	0	1,851	353			45,145	8,201,078
	October	6,440	41,039	0	2,428	1,339			51,246	8,252,324
	November	4,688	44,087	0	2,070	7,264			58,109	8,310,433
	December	5,489	45,881	0	2,543	10,640			64,553	8,374,986
	TOTAL	48,963	496,681	0	37,083	34,933			617,660	
1983	January	4,689	43,003	0	1,719	8,258			57,669	8,432,655
	February	4,543	39,692	0	224	5,598			50,057	8,482,712
	March	3,040	43,587	0	220	5,740			52,587	8,535,299
	April	3,743	41,727	0	203	0			45,673	8,580,972
	May	8,953	41,161	0	206	0			50,320	8,631,292
	June	8,871	36,753	0	1,845	0			47,469	8,678,761
	July	6,809	41,574	1	762	0			49,146	8,727,907
	August	5,790	49,691	2	1,490	299			57,272	8,785,179
	September	4,460	35,301	2	2,764	3,477	24,899		70,903	8,856,082
	October	7,345	40,738	1	2,136	16,693	46,685		113,598	8,969,680
	November	6,908	38,210	0	1,950	12,245	44,591		103,904	9,073,584
	December	6,635	41,322	0	276	15,290	47,014		110,537	9,184,121
	TOTAL	71,786	492,759	6	13,795	67,600	163,189		809,135	
1984	January	6,757	44,378	0	280	7,028	47,076		105,519	9,289,640
	February	6,631	40,120	0	2,076	3,064	44,860		96,751	9,386,391
	March	5,426	39,168	0	3,057	9,147	47,483		104,281	9,490,672
	April	6,119	38,628	0	3,095	10,038	45,194		103,074	9,593,746
	May	5,907	42,727	0	2,034	12,161	46,272		109,101	9,702,847
	June	4,886	41,292	0	149	13,393	62,337		122,057	9,824,904
	July	6,051	40,391	0	129	12,597	91,012		150,180	9,975,084
	August	5,399	40,320	0	19	13,290	125,689		184,717	10,159,801
	September	6,763	39,996	0	16	9,776	159,076		215,627	10,375,428
	October	5,785	45,331	0	0	16,530	169,078		236,724	10,612,152
	November	5,479	54,097	0	0	16,831	159,742		236,149	10,848,301
	December	4,470	56,382	0	0	11,686	170,892		243,430	11,091,731
	TOTAL	69,673	522,830	0	10,855	135,541	1,168,711		1,907,610	
1985	January	4,218	48,914	0	0	7,985	169,062		230,179	11,321,910
	February	3,885	44,916	0	0	10,752	150,485		210,038	11,531,948
	March	5,718	49,145	0	0	12,105	175,181		242,149	11,774,097
	April	5,145	49,671	0	1,410	10,465	171,462		238,153	12,012,250
	May	6,130	52,939	0	4,423	13,086	178,946		255,524	12,267,774
	June	5,682	47,418	0	5,331	14,817	175,203		248,451	12,516,225
	July	6,029	44,323	0	7,603	31,472	180,453		269,880	12,786,105
	August	5,223	47,429	0	7,425	35,579	182,853		278,509	13,064,614
	September	3,565	47,526	0	4,277	33,801	160,619		249,788	13,314,402
	October	4,990	44,604	0	5,878	32,346	167,964		255,782	13,570,184
	November	4,526	50,466	0	5,167	36,244	165,726		262,129	13,832,313
	December	3,696	55,471	0	6,428	45,361	187,793		298,749	14,131,062
	TOTAL	58,807	582,822	0	47,942	284,013	2,065,747		3,039,331	
1986	January	3,649	51,046	0	5,794	55,048	187,988	1,265	304,788	14,435,850
	February	3,035	48,684	0	5,028	42,865	166,370	256	266,238	14,702,088
	March	1,158	50,916	0	4,124	46,035	159,652	0	261,885	14,963,973
	April	3,734	48,262	P&A	4,823	40,312	134,617	0	231,748	15,195,721
	May	2,280	45,790	P&A	6,147	41,621	139,810	0	235,734	15,431,455
	June	5,383	38,335	P&A	5,664	36,905	133,355	0	219,642	15,651,097
	July	5,248	37,642	P&A	7,732	33,163	140,092	0	223,877	15,874,974
	August	3,921	37,499	P&A	6,557	29,895	139,916	0	217,788	16,092,762
	September	0	33,524	P&A	6,431	28,807	134,988	0	203,750	16,296,512
	October	0	34,473	P&A	7,275	30,119	164,009	0	235,876	16,532,388
	November	0	35,705	P&A	6,601	28,387	181,596	0	252,289	16,784,677
	December	0	38,641	P&A	6,467	28,006	180,393	0	253,507	17,038,184
	TOTAL	28,408	500,517	0	72,643	441,163	1,862,784	1,521	2,907,122	

P&A—plugged and abandoned

*includes 86 barrels of oil produced by Meridian Oil, Inc.—Spencer Federal No. 32-29, which was not within a named oil field

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Eagle Springs Oil Field

(WDW - water disposal well)

		Shell Oil Co.				Texota Oil Co.					Western Oil Lands				Total Field	Cumulative Total
		1-35	15-35	35-35	62-35	73-35	74-35	84-35	43-36	45-36	1-34	Penn. No. 2	Penn. No. 4	Penn. No. 5	Penn. No. 1	
1954	June	2,670														2,670
	July	7,371														7,371
	August	6,062														6,062
	September	4,055														4,055
	October	1,162														1,162
	November	6,594														6,594
	December	6,707														6,707
	TOTAL	34,621														34,621
1955	January	6,110														6,110
	February	5,376														5,376
	March	5,491		1,687												7,178
	April	2,903		4,528												7,431
	May	921		4,189												5,110
	June	2,247		3,550												5,797
	July	3,086		2,631												5,717
	August	1,315	798	1,267												3,380
	September	724	106	1,954												2,784
	October	1,739	255	1,918												3,912
	November	3,730	0	0												3,730
	December	5,083	0	2,789												7,872
	TOTAL	38,725	1,159	24,513												64,397
1956	January	4,717	0	3,017												7,734
	February	3,442	0	2,282												5,724
	March	3,677	378	2,095												6,150
	April	3,226	748	1,855												5,629
	May	4,292	650	1,765												6,707
	June	3,052	249	1,606												4,907
	July	3,515	500	1,812												5,827
	August	3,061	358	1,737												5,156
	September	2,773	130	1,378												4,281
	October	3,288	188	1,262												4,738
	November	2,501	0	737												3,238
	December	3,187	0	0												3,187
	TOTAL	40,731	3,201	19,346												63,278
1957	January	2,703	0	0												2,703
	February	2,840	0	0												2,840
	March	3,168	0	0												3,168
	April	2,768	0	0												2,768
	May	2,447	0	0												2,447
	June	3,709	0	0												3,709
	July	2,800	0	1,220												4,020
	August	2,967	0	2,044												5,011
	September	2,643	0	1,362												4,005
	October	2,864	0	247												3,111
	November	2,560	0	1,570												4,130
	December	3,291	0	1,308												4,599
	TOTAL	34,760	0	7,751												42,511
1958	January	3,148	0	1,068												4,216
	February	2,288	0	651												2,939
	March	2,201	0	506												2,707
	April	3,421	0	710												4,131
	May	2,189	0	415												2,604
	June	2,894	0	562												3,456
	July	3,488	0	469												3,957
	August	2,023	379	298												2,700
	September	3,733	61	451												4,245
	October	1,754	0	294												2,048
	November	2,703	0	289												2,992
	December	2,471	0	253												2,724
	TOTAL	32,313	440	5,966												38,719

continued

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Eagle Springs Oil Field (continued)

(WDW - water disposal well)

	Shell Oil Co.				Texaco Oil Co.					Western Oil Lands				Total Field	Cumulative Total
	1-35	15-35	35-35	62-35	73-35	74-35	84-35	43-36	45-36	1-34	Penn. No. 2	Penn. No. 4	Penn. No. 5	Penn. No. 1	
1959	January	2,956	0	239										3,195	246,721
	February	2,433	0	185										2,618	249,339
	March	2,079	0	170										2,249	251,588
	April	2,736	0	1,215										3,951	255,539
	May	2,912	0	1,032										3,944	259,483
	June	1,428	0	437										1,865	261,348
	July	2,149	0	650										2,799	264,147
	August	1,755	28	1,023										2,808	266,953
	September	1,125	0	464										1,589	268,542
	October	1,622	74	693										2,389	270,931
	November	1,876	0	658										2,534	273,465
	December	1,891	0	563										2,454	275,919
	TOTAL	24,962	102	7,329										32,393	
1960	January	1,891	0	535										2,426	278,345
	February	2,190	0	638										2,828	281,173
	March	1,259	0	387										1,646	282,819
	April	1,894	0	421										2,315	285,134
	May	2,335	0	464										2,799	287,933
	June	1,713	0	395										2,108	290,041
	July	2,136	0	493										2,629	292,670
	August	1,509	0	349										1,858	294,528
	September	1,266	0	0										1,266	295,794
	October	2,121	0	845										2,966	298,760
	November	1,665	0	791										2,456	301,216
	December	1,254	0	279										1,533	302,749
	TOTAL	21,233	0	5,597										26,830	
1961	January	2,051	0	440	2,169									4,660	307,409
	February	1,370	0	147	8,964									10,481	317,890
	March	1,947	0	0	12,865									14,812	332,702
	April	1,897	0	0	12,597									14,494	347,196
	May	1,847	0	0	11,980									13,827	361,023
	June	1,871	0	0	11,106									12,777	373,800
	July	1,975	0	0	12,607									14,582	388,382
	August	2,076	0	0	11,545									13,621	402,003
	September	1,582	0	0	11,484									13,066	415,069
	October	2,034	0	0	12,761									14,795	429,864
	November	1,752	0	0	10,992									12,744	442,608
	December	1,878	0	0	11,784									13,662	456,270
	TOTAL	22,080	0	587	130,854									153,521	
1962	January	1,997	0	0	12,527									14,524	470,794
	February	1,651	0	0	10,403									12,054	482,848
	March	1,972	0	0	12,426									14,398	497,246
	April	1,564	0	0	9,854									11,418	508,664
	May	1,872	0	0	11,793									13,665	522,329
	June	1,047	0	0	6,599									7,646	529,975
	July	1,341	0	0	8,450									9,791	539,766
	August	1,428	0	0	9,001									10,429	550,195
	September	1,534	0	0	9,668									11,202	561,397
	October	1,672	0	0	10,535									12,207	573,604
	November	1,705	0	0	10,744									12,449	586,053
	December	1,516	0	0	9,550									11,066	597,119
	TOTAL	19,299	0	0	121,550									140,849	
1963	January	1,333	0	0	8,397									9,730	606,849
	February	689	0	0	7,510									8,199	615,048
	March	1,022	0	0	7,657									8,679	623,727
	April	1,040	0	0	7,786									8,826	632,553
	May	863	0	1,440	7,844									10,147	642,700
	June	755	0	1,628	6,863									9,246	651,946
	July	720	235	1,551	6,540									9,046	660,992
	August	669	0	1,443	6,082									8,194	669,186
	September	646	0	1,391	5,868									7,905	677,091
	October	586	0	1,651	5,202									7,439	684,530
	November	554	0	684	4,924	6,837								12,999	697,529
	December	629	0	0	5,591	13,015								19,235	716,764
	TOTAL	9,506	235	9,788	80,264	19,852								119,645	

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Eagle Springs Oil Field (continued)

(WDW - water disposal well)

		Shell Oil Co.				Texaco Oil Co.					Western Oil Lands						
		1-35	15-35	35-35	62-35	73-35	74-35	84-35	43-36	45-36	1-34	Penn. No. 2	Penn. No. 4	Penn. No. 5	Penn. No. 1	Total Field	Cumulative Total
1964	January	605	0	0	5,379	13,285										19,269	736,033
	February	584	0	0	5,189	10,735										16,508	752,541
	March	609	0	0	5,408	13,440										19,457	771,998
	April	460	0	1,443	4,086	14,887	4,206									25,082	797,080
	May	351	0	1,182	3,123	15,500	565									20,721	817,801
	June	393	0	1,321	3,492	11,411	626									17,243	835,044
	July	408	0	1,371	3,624	13,312	8,878									27,593	862,637
	August	335	0	1,125	2,974	12,362	7,528									24,324	886,961
	September	417	0	1,401	3,701	11,213	7,229									23,961	910,922
	October	369	0	1,243	3,282	11,415	4,895									21,204	932,126
	November	201	0	677	1,788	10,176	5,471									18,313	950,439
	December	537	0	1,806	4,773	9,643	4,948									21,707	972,146
TOTAL		5,269	0	11,569	46,819	147,379	44,346									255,382	
1965	January	229	0	771	2,037	8,698	3,730									15,465	987,611
	February	299	0	1,003	2,653	8,173	861									12,989	1,000,600
	March	0	0	460	1,214	8,589	1,573	2,720								14,556	1,015,156
	April	0	0	1,253	3,311	6,978	1,730	3,167								16,439	1,031,595
	May	64	0	553	1,322	2,788	4,400	4,525								13,652	1,045,247
	June	1,107	0	461	3,074	4,030	4,626	3,755								17,053	1,062,300
	July	530	0	221	1,472	3,830	4,954	2,768								13,775	1,076,075
	August	269	0	113	748	2,037	4,947	2,314	1,373							11,801	1,087,876
	September	928	0	387	2,578	620	2,051	1,765	3,175			10,672				22,176	1,110,052
	October	806	0	336	2,240	0	2,005	2,130	3,040			5,214	10,736			26,507	1,136,559
	November	1,044	0	669	3,976	4,999	2,269	1,365	2,028			0	10,814			27,164	1,163,723
	December	704	0	0	1,788	1,679	1,786	798	420			0	10,038			17,488	1,181,211
TOTAL		5,980	0	6,227	26,413	52,421	34,932	24,784	10,414	420		15,886	31,588			209,065	
1966	January	0	0	0	0	1,978	0	1,403	2,011			7,509	0			12,901	1,194,112
	February	7	0	0	60	2,573	1,753	0	1,518	1,903		6,603	0			14,417	1,208,529
	March	597	0	0	1,683	5,559	1,307	0	974	1,855		1,618	9,427			23,020	1,231,549
	April	116	0	3	294	7,202	970	1,890	1,540	3,112		0	12,925	8,529		36,581	1,268,130
	May	1,312	0	3,127	1,866	6,410	1,163	2,145	1,673	2,148		0	11,036	8,824		39,704	1,307,834
	June	307	0	224	2,416	5,580	620	1,800	659	2,115		0	6,842	7,652		28,215	1,336,049
	July	211	0	563	2,729	4,900	1,129	1,678	1,461	2,053		0	6,629	8,219		29,572	1,365,621
	August	349	0	396	1,953	2,028	835	1,548	1,702	1,940		0	5,139	6,817		22,707	1,388,328
	September	421	0	468	2,353	5,960	1,914	1,196	1,589	1,716		0	5,415	6,969		28,001	1,416,329
	October	391	0	484	2,187	5,290	1,550	1,220	1,333	1,543		0	4,263	7,902		26,163	1,442,492
	November	417	0	429	2,330	4,860	1,500	1,200	1,200	1,500		0	4,051	6,644		24,131	1,466,623
	December	455	0	290	2,542	4,640	1,864	1,240	1,395	1,395		0	4,405	5,795		24,021	1,490,644
TOTAL		4,583	0	5,984	20,413	55,002	16,583	13,917	16,447	23,291		15,730	70,132	67,351		309,433	
1967	January	661	0	815	3,693	4,297	1,988	943	942	1,071		0	6,302	7,230		27,942	1,518,586
	February	221	0	274	1,238	3,369	1,538	732	805	879		0	4,607	5,849		19,512	1,538,098
	March	464	0	573	2,593	4,984	2,109	959	479	1,054		0	6,241	5,811		25,267	1,563,365
	April	447	0	553	2,500	4,700	1,520	566	560	1,020		980	2,364	5,329	2,726	23,265	1,586,630
	May	443	0	547	2,477	4,960	1,025	775	560	640		1,828	4,962	3,637	3,227	25,081	1,611,711
	June	402	0	560	2,049	4,440	622	675	780	850		3,393	3,152	6,256	0	23,179	1,634,890
	July	175	0	307	1,846	4,505	1,036	775	961	1,079		2,641	3,208	5,399	0	21,932	1,656,822
	August	380	0	492	2,584	2,510	248	713	911	911		2,317	3,476	6,011	0	20,553	1,677,375
	September	349	0	451	2,369	0	0	53	173	251		1,314	2,556	4,262	0	11,778	1,689,153
	October	411	0	533	2,796	3,820	1,300	180	509	455	3,543	2,274	4,501	7,519	1,012	28,853	1,718,006
	November	368	0	478	2,504	3,740	1,100	650	494	730	2,884	1,930	3,938	4,546	915	24,277	1,742,283
	December	302	0	251	2,050	3,890	1,250	850	249	326	5,629	1,904	4,340	5,777	271	27,089	1,769,372
TOTAL		4,623	0	5,834	28,699	45,215	13,736	7,871	7,423	9,266	12,056	18,581	49,647	67,626	8,151	278,728	
1968	January	265	0	0	1,801	3,500	1,400	850	270	167	8,680	1,881	4,186	5,489	824	29,313	1,798,685
	February	208	0	0	1,216	3,280	1,350	770	580	763	7,163	1,573	3,502	4,367	110	24,882	1,823,567
	March	136	0	0	416	3,402	1,202	880	570	876	6,949	1,694	3,771	4,598	0	24,494	1,848,061
	April	246	0	0	1,392	3,200	1,160	850	550	841	5,117	1,868	2,802	4,330	0	22,356	1,870,417
	May	216	0	0	1,468	3,310	1,078	725	585	830	4,413	0	2,317	3,530	0	18,472	1,888,889
	June	217	0	0	1,475	3,200	1,040	700	532	855	3,746	0	2,916	4,461	0	19,142	1,908,031
	July	70	0	882	216	3,345	1,178	775	440	750	3,326	0	2,714	4,261	0	17,957	1,925,988
	August	128	0	460	451	3,310	1,915	632	286	0	2,977	0	2,521	3,292	0	15,972	1,941,960
	September	195	0	1,747	1,707	3,150	1,900	2,400	195	884	2,090	2,237	4,979	4,380	1,655	27,519	1,969,479
	October	78	0	1,240	310	3,310	1,915	3,004	299	612	2,883	1,767	3,934	3,268	1,073	23,693	1,993,172
	November	672	0	856	1,468	3,200	1,700	2,900	143	722	2,492	2,025	4,507	2,883	429	23,997	2,017,169
	December	715	0	911	1,560	3,310	1,810	2,300	0	45	2,557	1,815	4,040	4,132	379	23,574	2,040,743
TOTAL		3,146	0	6,096	13,480	39,517	17,648	16,786	4,450	7,345	52,393	14,860	42,189	48,991	4,470	271,371	

continued

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Eagle Springs Oil Field (continued)

(WDW - water disposal well)

	J. L. Davis				North American Resources Co.					Western Oil Lands					Total Field	Cumulative Total
	1-35	15-35	35-35	62-35	73-35	74-35	84-35	43-36	45-36	1-34	Penn. No. 2	Penn. No. 4	Penn. No. 5	Penn. No. 1		
1969	January	577	0	878	1,482	3,310	1,770	2,900	0	289	2,356	1,745	3,885	3,630	92	22,914
	February	434	0	650	1,085	2,980	1,597	2,700	0	135	2,141	1,958	4,357	3,560	673	22,270
	March	439	0	659	1,098	3,310	1,760	3,000	210	380	2,123	1,009	2,245	3,660	541	20,434
	April	360	0	548	1,728	3,100	1,750	2,800	335	450	1,774	1,488	3,312	2,991	451	21,087
	May	403	0	589	1,759	3,155	1,810	2,690	447	570	1,726	1,420	3,161	3,200	31	20,961
	June	330	0	630	1,576	3,050	1,700	2,450	270	483	1,480	2,744	1,233	3,761	0	19,707
	July	434	0	651	1,406	3,155	1,299	2,535	420	180	953	1,581	710	3,068	180	16,572
	August	433	0	90	1,286	3,093	1,314	2,504	278	300	1,403	3,429	1,541	3,644	565	18,880
	September	98	0	144	305	2,900	1,220	2,304	180	0	1,389	3,293	1,479	3,622	355	17,287
	October	0	0	0	0	3,050	1,410	2,451	0	0	1,162	0	2,075	2,989	280	13,417
	November	0	0	0	0	2,500	1,263	2,020	164	0	1,491	0	1,895	3,380	56	12,769
	December	336	0	0	1,417	2,825	1,263	2,205	255	23	1,498	2,860	1,285	2,617	0	16,584
	TOTAL	3,842	0	4,839	13,142	36,428	18,156	30,559	2,559	2,810	19,496	21,527	27,178	40,122	3,224	223,882
1970	January	0	0	716	1,860	3,040	1,365	2,370	290	29	1,518	3,769	1,693	3,102	0	19,752
	February	56	0	0	443	2,638	161	1,930	0	0	330	1,792	805	2,619	0	10,774
	March	132	0	0	269	649	3,460	609	0	0	1,202	2,507	987	3,498	0	13,313
	April	168	0	0	758	2,630	1,175	1,900	0	0	1,210	2,288	1,578	2,774	0	14,481
	May	0	0	0	0	2,568	738	2,061	0	0	1,104	2,554	1,148	3,142	0	13,315
	June	0	0	0	0	1,970	0	1,230	0	0	690	2,046	919	2,778	0	9,633
	July	0	0	0	0	2,056	0	1,731	757	865	1,185	1,833	0	2,794	0	11,221
	August	0	0	0	0	2,273	0	1,920	846	1,140	972	2,185	0	2,955	0	12,291
	September	0	293	0	0	1,550	0	1,360	669	1,150	1,471	1,468	0	2,687	0	10,648
	October	0	405	0	0	1,666	0	1,298	675	1,181	1,181	2,047	371	2,458	0	11,292
	November	0	191	0	0	1,868	0	1,495	320	536	1,302	1,942	1,589	2,575	0	11,818
	December	0	118	0	0	1,828	0	1,465	280	472	1,051	2,065	1,689	2,923	0	11,891
	TOTAL	356	1,007	716	3,330	24,736	6,899	19,369	3,837	5,373	13,216	26,496	10,779	34,315	0	150,429
1971	January	0	0	0	0	1,480	1,016	0	0	0	330	1,578	1,291	1,578	0	7,273
	February	0	0	0	0	1,941	1,032	0	0	0	742	1,699	1,390	2,316	0	9,120
	March	0	0	0	0	2,490	1,308	0	0	0	837	2,147	1,757	3,251	0	11,790
	Honolulu Oil Co.															
	April	0	454	0	0	2,257	1,216	0	0	0	644	2,057	1,684	2,141	0	10,453
	May	0	572	0	0	2,154	1,140	0	0	0	0	2,027	1,658	3,020	0	10,571
	June	0	160	319	0	1,115	700	0	0	0	235	1,827	1,494	2,427	0	8,277
	July	0	274	549	0	1,391	0	740	661	298	0	1,778	1,454	2,375	0	9,520
	August	0	240	480	0	1,648	0	0	818	508	0	1,489	1,219	2,528	0	8,928
	September	0	191	378	0	1,500	1,060	0	246	790	667	1,303	1,066	2,207	0	9,408
	October	0	221	51	0	877	291	0	0	0	2,502	1,193	976	2,563	0	8,674
	November	0	248	0	0	2,055	1,421	0	0	0	2,772	0	1,600	2,272	0	10,368
	December	0	0	0	0	1,774	1,291	0	0	0	805	1,577	1,290	2,108	0	8,845
	TOTAL	0	2,360	1,777	0	20,682	10,475	740	1,723	1,596	9,534	18,675	16,879	28,786	0	113,227
1972	January	0	0	0	0	1,840	1,440	0	0	0	549	2,244	1,836	700	0	8,609
	February	0	0	0	0	1,542	1,213	0	0	0	618	1,527	1,250	2,853	0	9,003
	March	0	0	0	0	1,740	1,484	0	0	0	38	1,555	1,273	2,293	0	8,363
	April	0	0	0	0	1,540	1,190	0	0	0	0	1,261	1,032	1,759	0	6,782
	May	0	0	0	0	1,700	1,304	0	0	0	0	1,759	1,439	2,775	0	8,977
	June	0	0	0	0	1,500	1,210	0	0	0	0	1,422	1,163	2,388	0	7,683
	July	0	0	0	0	1,026	945	0	300	658	0	1,071	876	2,108	0	6,884
	August	0	0	0	0	1,140	1,078	0	520	371	0	1,230	1,007	2,039	0	7,385
	Texota Oil Co.															
	September	0	0	0	0	1,848	1,320	1,191	210	195	0	1,116	913	2,151	0	8,944
	October	0	0	0	0	2,213	1,375	1,228	350	746	0	955	782	2,127	0	9,776
	November	0	0	0	0	1,919	925	1,024	107	227	0	1,067	873	1,794	0	7,936
	December	0	0	0	0	2,652	1,617	1,293	0	0	0	1,413	1,156	2,733	0	10,864
	TOTAL	0	0	0	0	20,660	15,081	4,736	1,487	2,197	1,205	16,620	13,600	25,720	0	101,306
1973	Morrison & Weatherly Chemical Products (Oil Division)															
	January	0	0	0	0	2,802	1,917	738	0	0	0	1,305	1,068	1,165	0	8,995
	February	0	0	0	0	1,807	1,413	591	0	0	0	1,153	943	1,908	0	7,815
	March	0	0	0	0	2,230	1,730	682	0	0	0	683	559	1,899	0	7,783
	April	0	0	0	0	2,294	1,530	1,071	0	0	0	674	551	1,585	0	7,705
	May	0	0	0	0	2,114	1,432	955	352	88	0	674	552	1,456	0	7,623
	June	0	0	0	0	2,128	917	881	0	0	0	1,404	1,149	3,330	0	9,809
	July	0	0	0	0	1,932	1,288	1,031	0	0	0	773	633	1,811	0	7,468
	August	0	0	0	0	1,749	508	844	0	0	0	1,049	858	2,132	0	7,138
	September	0	0	0	0	1,891	1,117	913	0	0	0	995	813	1,794	0	7,523
	October	0	0	0	0	1,870	1,465	1,203	0	0	0	1,029	842	2,279	0	8,688
	Toiyabe Oil Inc.															
	November	0	0	1,439	0	1,650	1,304	1,277	0	0	0	991	811	2,125	0	9,597
	December	0	0	474	0	1,982	1,463	1,273	0	0	0	834	683	1,532	0	8,241
	TOTAL	0	0	1,913	0	24,449	16,082	11,459	352	88	0	11,564	9,462	23,016	0	98,385

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Eagle Springs Oil Field (continued)

(WDW - water disposal well)

		Toiyabe Oil Inc.				Morrison & Westtherly Chemical Products (Oil Division)						Western Oil Lands					
		1-35	15-35	35-35	62-35	73-35	74-35	84-35	43-36	45-36	1-34	Penn. No. 2	Penn. No. 4	Penn. No. 5	Penn. No. 1	Total Field	Cumulative Total
1974	January	0	0	0	965	1,892	1,431	1,292	0	0	0	1,125	920	2,733	0	10,358	2,738,330
	February	0	0	0	743	1,657	1,156	1,041	0	0	0	374	306	0	0	5,277	2,743,607
	March	0	0	0	1,174	1,511	1,054	949	0	0	0	1,345	1,101	2,457	0	9,591	2,753,198
	April	0	0	0	1,209	2,599	1,706	1,110	0	0	0	794	650	1,989	0	10,057	2,763,255
	May	0	0	0	1,715	2,741	1,907	1,310	0	0	0	1,045	854	2,249	0	11,821	2,775,076
	June	0	0	0	2,145	2,790	2,581	1,311	0	0	0	879	719	2,143	0	12,568	2,787,644
	July	0	0	0	2,487	3,020	2,102	1,445	533	870	0	735	601	2,076	0	13,869	2,801,513
	August	0	0	0	2,649	2,652	1,876	1,229	258	453	0	846	692	1,932	0	12,587	2,814,100
	September	0	0	0	2,521	2,806	2,104	1,148	128	191	0	435	356	793	0	10,482	2,824,582
	October	0	0	0	2,216	2,359	1,887	996	0	0	0	997	816	2,564	0	11,835	2,836,417
	November	0	0	0	2,595	2,138	1,646	932	274	493	0	792	648	1,413	0	10,931	2,847,348
	December	0	0	0	2,631	2,245	1,832	1,063	295	473	0	521	426	2,096	0	11,582	2,858,930
	TOTAL	0	0	0	23,050	28,410	21,282	13,826	1,488	2,480	0	9,888	8,089	22,445	0	130,958	
Ely Crude Oil Co.																	
1975	January	0	0	0	2,150	2,112	1,994	1,056	293	411	0	708	579	2,397	0	11,700	2,870,630
	February	0	0	0	2,494	1,649	1,470	802	312	223	0	614	503	1,673	0	9,740	2,880,730
	March	0	0	0	2,308	1,421	1,605	1,055	229	275	0	799	654	1,465	0	9,811	2,890,181
	April	0	0	0	2,477	1,493	1,692	1,294	198	299	0	609	498	2,004	0	10,564	2,900,745
	May	0	0	0	2,677	1,461	1,713	1,310	252	302	0	711	581	2,369	0	11,376	2,912,121
	June	0	0	0	2,699	1,234	1,448	1,106	213	255	0	490	400	1,463	0	9,308	2,921,429
	July	0	0	0	2,196	1,308	1,624	1,038	271	271	0	803	657	2,020	0	10,188	2,931,617
	August	0	0	0	3,873	1,545	1,979	772	290	241	0	0	81	0	0	8,781	2,940,398
	September	0	0	0	3,210	1,493	756	714	162	131	0	0	70	0	0	6,536	2,946,934
	October	0	0	0	3,530	1,780	2,068	962	0	0	0	0	60	0	0	8,400	2,955,334
	November	0	0	563	3,537	1,572	2,126	925	0	0	0	0	65	0	0	8,788	2,964,122
	December	0	0	901	3,655	1,695	2,178	968	0	0	0	0	65	0	0	9,462	2,973,584
	TOTAL	0	0	1,464	34,806	18,763	20,653	12,002	2,220	2,408	0	4,734	4,213	13,391	0	114,654	
1976	January	0	0	726	3,619	1,561	2,007	892	0	0	0	0	65	0	0	8,870	2,982,454
	February	0	0	538	2,472	1,274	1,638	727	0	0	0	0	40	0	0	6,689	2,989,143
	March	0	0	758	2,620	1,420	1,937	947	0	0	0	0	114	0	0	7,796	2,996,939
	April	0	0	709	2,511	1,438	1,946	847	0	0	0	0	0	0	0	7,451	3,004,390
	May	0	0	750	2,982	1,372	2,058	857	0	0	0	0	151	834	0	9,004	3,013,394
	June	0	0	725	3,822	1,369	1,369	756	567	661	0	0	0	449	0	9,718	3,023,112
	July	0	0	750	3,853	1,394	1,529	900	315	360	0	1,507	1,233	2,510	0	14,351	3,037,463
	August	0	0	648	3,290	1,782	1,625	1,048	367	420	0	846	692	2,498	0	13,216	3,050,679
	September	0	0	720	2,199	1,846	1,746	849	249	299	0	878	718	1,765	0	11,269	3,061,948
	October	0	0	720	2,713	1,805	1,663	665	238	380	374	734	601	1,938	0	11,831	3,073,779
	November	0	0	750	2,685	1,802	1,304	729	202	128	1,434	743	608	1,568	0	11,953	3,085,732
	December	0	0	744	1,827	1,952	1,541	771	515	360	912	737	603	1,936	0	11,898	3,097,630
	TOTAL	0	0	8,538	34,593	19,015	20,363	9,988	2,453	2,608	2,720	5,445	4,825	13,498	0	124,046	
1977	January	0	0	360	2,212	1,914	1,602	622	0	312	392	927	758	2,755	0	11,854	3,109,484
	February	0	0	672	2,556	1,845	1,450	614	264	220	0	676	553	1,742	0	10,592	3,120,076
	March	0	0	480	2,812	2,203	1,437	623	287	240	0	595	487	1,968	0	11,132	3,131,208
	April	0	0	720	2,065	2,222	1,465	520	284	236	0	697	570	1,811	0	10,590	3,141,798
	May	0	0	744	2,231	2,185	1,319	618	176	200	0	721	590	1,491	0	10,275	3,152,073
	June	0	0	720	2,283	2,392	1,488	744	320	372	363	600	491	1,870	0	11,643	3,163,716
	July	0	0	744	2,575	2,498	1,225	637	294	245	367	911	745	2,049	0	12,290	3,176,006
	August	0	0	648	1,795	1,710	1,026	373	0	0	0	742	607	1,904	0	8,805	3,184,811
	September	0	0	600	817	973	438	211	0	0	0	746	611	2,083	0	6,479	3,191,290
	October	0	0	624	2,218	703	305	164	0	0	0	814	666	1,721	0	7,215	3,198,505
	November	0	0	288	1,062	2,196	1,284	663	142	117	0	538	440	961	0	7,691	3,206,196
	December	0	0	816	1,300	711	441	441	0	0	0	0	0	477	0	3,745	3,209,941
	TOTAL	0	0	6,600	23,442	22,141	13,750	6,230	1,767	1,942	1,122	7,967	6,518	20,832	0	112,311	
1978	January	WDW	0	0	1,022	2,954	1,371	950	0	0	503	0	0	0	0	6,800	3,216,741
	February	WDW	0	0	865	1,756	0	650	0	0	706	219	179	1,112	0	5,487	3,222,228
	March	WDW	0	450	802	2,162	1,004	696	0	0	433	561	459	1,162	0	7,729	3,229,957
	April	WDW	0	672	976	631	289	149	0	0	0	0	0	871	0	3,588	3,233,545
	May	WDW	0	600	1,011	2,078	527	496	0	0	0	129	105	943	0	5,889	3,239,434
	June	WDW	0	264	1,213	2,259	821	342	254	214	1,180	0	0	0	0	6,547	3,245,981
	July	WDW	0	290	833	1,806	888	368	174	174	0	513	420	1,742	0	7,208	3,253,189
	August	WDW	0	140	1,286	2,370	1,106	474	445	445	60	340	278	1,678	0	8,622	3,261,811
	September	WDW	0	300	976	1,076	587	294	0	0	265	646	528	2,205	0	6,877	3,268,688
	October	WDW	0	310	1,104	2,028	840	630	0	0	289	346	435	552	0	6,534	3,275,222
	November	WDW	0	300	1,082	421	10	96	0	0	146	0	0	0	0	2,055	3,277,277
	December	WDW	0	310	1,063	1,442	601	361	0	WDW	0	0	0	0	0	3,777	3,281,054
	TOTAL	0	0	3,636	12,233	20,983	8,044	5,506	873	833	3,582	2,754	2,404	10,265	0	71,113	

continued

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Eagle Springs Oil Field (continued)

(WDW - water disposal well)

		Toiyabe Oil Inc.				Ely Crude Oil					Western Oil Lands						
		1-35	15-35	35-35	62-35	73-35	74-35	84-35	43-36	45-36	1-34	Penn. No. 2	Penn. No. 4	Penn. No. 5	Penn. No. 1	Total Field	Cumulative Total
1979	January	WDW	0	103	980	299	0	0	0	WDW	0	0	0	0	0	1,362	3,282,416
	February	WDW	0	0	1,027	2,243	832	543	0	WDW	0	0	0	0	0	4,845	3,287,061
	March	WDW	0	0	886	2,608	911	621	0	WDW	0	894	0	2,372	0	8,292	3,295,353
	April	WDW	0	0	1,405	2,183	739	436	0	WDW	0	452	0	588	0	5,803	3,301,156
	May	WDW	0	290	1,110	1,850	893	446	0	WDW	0	31	0	884	0	5,504	3,306,660
	June	WDW	0	420	1,192	1,971	986	563	418	WDW	0	860	704	1,768	0	8,882	3,315,542
	July	WDW	0	362	1,116	2,237	1,119	501	60	WDW	294	488	399	2,207	0	8,783	3,324,325
	August	WDW	0	303	1,228	2,473	880	430	0	WDW	1,159	1,189	973	1,938	0	10,373	3,334,698
	September	WDW	0	300	1,188	2,304	634	401	594	WDW	42	1,377	0	1,834	0	8,674	3,343,372
	October	WDW	0	350	1,134	2,292	332	392	331	WDW	0	1,087	0	1,891	0	7,809	3,351,181
	November	WDW	0	350	1,135	2,255	426	366	108	WDW	0	812	0	1,724	0	7,176	3,358,357
	December	WDW	0	330	945	2,167	0	413	0	WDW	0	1,317	0	1,769	0	6,941	3,365,298
	TOTAL		0	2,808	13,326	24,882	7,552	5,112	1,511	0	1,495	8,507	2,076	16,975	0	84,244	
1980	January	WDW	0	350	816	1,813	586	267	294	WDW	869	822	673	1,921	0	8,411	3,373,709
	February	WDW	0	273	531	2,147	631	378	76	WDW	416	1,171	341	1,644	0	7,608	3,381,317
	March	WDW	0	280	1,122	2,198	469	263	256	WDW	0	1,356	50	1,741	0	7,735	3,389,052
	April	WDW	0	701	701	1,711	385	205	285	WDW	0	600	368	1,700	0	6,636	3,395,688
	May	WDW	0	692	692	2,305	576	320	280	WDW	0	1,418	0	1,751	0	8,034	3,403,722
	June	WDW	0	617	617	1,829	385	192	237	WDW	0	970	291	1,713	0	6,851	3,410,573
	July	WDW	0	389	1,188	2,061	440	247	193	WDW	0	949	582	1,826	0	7,855	3,418,428
	John Lyndon																
	August	WDW	0	363	1,090	2,106	497	322	178	WDW	0	995	664	1,807	0	8,022	3,426,450
	September	WDW	0	364	981	2,075	449	280	185	WDW	0	940	626	1,707	0	7,607	3,434,057
	Draycott Corp.																
	October	WDW	0	390	1,170	2,551	552	345	181	WDW	174	1,169	629	1,937	0	9,098	3,443,155
	November	WDW	0	348	1,044	2,385	509	286	0	WDW	35	911	607	1,892	0	7,817	3,450,972
	December	WDW	0	351	999	2,576	550	309	0	WDW	0	903	602	1,713	0	8,003	3,458,975
	TOTAL		0	5,118	10,931	25,757	6,009	3,414	2,165		1,494	12,204	5,433	21,152	0	93,677	
1981	January	WDW	0	303	862	2,341	506	316	0	WDW	0	965	843	1,788	0	7,724	3,466,699
	February	WDW	0	64	426	2,040	408	272	0	WDW	0	654	535	1,787	0	6,186	3,472,885
	March	WDW	0	0	0	2,233	447	298	0	WDW	0	980	802	1,917	231	6,908	3,479,793
	April	WDW	0	0	0	1,908	376	226	193	WDW	0	736	602	2,136	185	6,362	3,486,155
	May	WDW	0	0	0	1,793	354	212	1	WDW	0	714	584	1,565	25	5,248	3,491,403
	June	WDW	0	451	1,284	1,934	382	229	177	WDW	0	874	715	1,765	205	8,016	3,499,419
	July	WDW	0	111	334	1,866	369	221	0	WDW	0	767	496	1,705	310	8,179	3,505,598
	August	WDW	0	0	0	1,334	434	217	0	WDW	0	675	553	1,684	150	5,047	3,510,645
	September	WDW	0	136	408	1,491	449	312	0	WDW	0	682	558	1,548	126	5,710	3,516,355
	October	WDW	0	198	563	156	238	198	0	WDW	0	760	621	1,430	150	4,314	3,520,669
	November	WDW	0	0	0	1,842	398	249	0	WDW	0	806	660	1,802	375	6,132	3,526,801
	December	WDW	0	0	0	1,330	288	180	0	WDW	0	481	393	1,682	256	4,610	3,531,411
	TOTAL			1,263	3,877	20,268	4,649	2,930	371		0	9,094	7,162	20,809	2,013	72,436	
1982	January	WDW	0	0	619	322	0	0	0	WDW	0	659	539	1,155	525	3,819	3,535,230
	February	WDW	0	0	50	120	38	0	0	WDW	0	383	314	495	1	1,401	3,536,631
	March	WDW	0	53	291	73	24	0	0	WDW	0	629	339	1,083	475	2,967	3,539,598
	April	WDW	0	125	683	487	165	0	0	WDW	0	389	209	780	0	2,838	3,542,436
	May	WDW	0	9	124	811	204	0	0	WDW	0	0	0	0	0	948	3,543,384
	June	WDW	0	0	96	277	78	0	0	WDW	0	564	244	1,050	0	2,309	3,545,693
	Draycott Corp.																
	July	WDW	0	244	221	1,311	312	250	0	WDW	0	775	510	1,926	405	5,954	3,551,647
	August	WDW	516	363	235	978	323	244	110	WDW	250	606	358	2,156	297	6,436	3,558,083
	September	WDW	100	600	390	652	241	223	30	WDW	322	607	95	2,107	307	5,674	3,563,757
	October	WDW	26	291	212	1,101	428	319	40	WDW	894	664	0	2,111	354	6,440	3,570,197
	November	WDW	33	563	488	499	200	25	26	WDW	620	374	0	1,750	110	4,688	3,574,885
	December	WDW	0	301	192	747	230	175	100	WDW	331	758	0	2,250	405	5,489	3,580,374
TOTAL		675	2,549	3,601	7,178	2,243	1,236	306		2,417	6,408	2,608	16,863	2,879	48,963		
1983	January	WDW	0	530	261	1,218	488	0	35	WDW	0	420	0	1,562	175	4,689	3,585,063
	February	WDW	0	482	296	614	343	0	130	WDW	394	542	0	1,464	278	4,543	3,589,606
	March	WDW	25	396	208	20	15	0	0	WDW	0	315	0	1,751	310	3,040	3,592,646
	April	WDW	36	504	360	0	0	0	131	WDW	211	695	0	1,523	283	3,743	3,596,389
	May	WDW	39	424	308	3,095	1,050	950	160	WDW	328	710	0	1,583	306	8,953	3,605,342
	June	WDW	28	564	480	2,921	750	575	120	WDW	679	765	0	1,806	183	8,871	3,614,213
	July	WDW	25	521	281	1,394	1,374	0	135	WDW	396	844	0	1,655	184	6,809	3,621,022
	August	WDW	27	436	208	1,209	1,362	0	149	WDW	0	489	0	1,718	192	5,790	3,626,812
	September	WDW	39	426	324	540	756	0	150	WDW	65	0	0	1,950	210	4,460	3,631,272
	October	WDW	16	475	328	1,800	1,508	904	200	WDW	705	150	0	1,049	210	7,345	3,638,617
	November	WDW	0	278	200	1,800	1,127	850	184	WDW	597	112	0	1,498	262	6,908	3,645,525
	December	WDW	0	219	0	1,837	1,184	857	204	WDW	563	106	0	1,417	248	6,635	3,652,160
	TOTAL		235	5,255	3,254	16,448	9,957	4,136	1,598		3,938	5,148	0	18,978	2,841	71,786	

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Eagle Springs Oil Field (continued)

(WDW = water disposal well)

		John Lyddon				Draycott Corp.											
		1-35	15-35	35-35	62-35	73-35	74-35	84-35	43-38	45-38	1-34	Penn. No. 2	Penn. No. 4	Penn. No. 5	Penn. No. 1	Total Field	Cumulative Total
1984	January	WDW	0	534	473	1,837	1,184	375	204	WDW	503	0	0	1,416	231	6,757	3,658,917
	February	WDW	0	471	471	1,684	1,071	640	136	WDW	456	377	0	1,325	0	6,631	3,665,548
	March	WDW	0	281	281	1,587	998	757	68	WDW	504	0	0	950	0	5,426	3,670,974
	April	WDW	0	479	479	1,473	894	718	17	WDW	453	0	0	1,606	0	6,119	3,677,093
	May	WDW	0	451	184	1,853	0	853	193	WDW	533	0	257	1,583	0	5,907	3,683,000
	June	WDW	39	486	259	1,900	242	850	32	WDW	480	0	170	448	0	4,886	3,687,886
	July	WDW	19	500	114	1,947	594	871	32	WDW	448	0	0	1,526	0	6,051	3,693,937
	August	WDW	0	279	108	1,810	560	807	60	WDW	454	0	0	1,231	90	5,399	3,699,336
	September	WDW	0	500	542	1,601	491	763	250	WDW	446	0	0	1,975	195	6,763	3,706,099
	October	WDW	0	115	491	1,604	425	535	142	WDW	483	0	0	1,855	135	5,785	3,711,884
	November	WDW	0	115	434	887	525	796	110	WDW	544	0	0	1,708	360	5,479	3,717,363
	December	WDW	0	300	131	1,497	432	822	92	WDW	368	0	0	633	195	4,470	3,721,833
	TOTAL			58	4,511	3,967	19,680	7,416	8,787	1,336		5,652	377	427	16,256	1,206	69,673
1985	January	WDW	0	485	273	1,719	481	822	0	WDW	204	0	0	234	0	4,218	3,726,051
	February	WDW	0	327	0	1,552	743	368	0	WDW	0	0	0	895	0	3,885	3,729,936
	March	WDW	0	494	229	1,608	690	362	0	WDW	0	0	0	2,283	52	5,718	3,735,654
	April	WDW	0	322	85	1,663	796	262	82	WDW	0	0	0	1,896	39	5,145	3,740,799
	May	WDW	0	477	225	1,227	882	432	202	WDW	0	0	0	2,399	286	6,130	3,746,929
	June	WDW	11	510	240	1,364	683	418	137	WDW	310	0	0	1,775	234	5,682	3,752,611
	July	WDW	0	340	55	1,387	1,050	587	100	WDW	380	0	0	2,000	130	6,029	3,758,640
	August	WDW	125	300	255	1,594	740	385	0	WDW	452	0	0	1,372	0	5,223	3,763,863
	September	WDW	0	355	303	1,620	232	460	0	WDW	440	0	0	155	0	3,565	3,767,428
	October	WDW	0	0	0	1,830	120	950	90	WDW	60	0	0	1,567	373	4,990	3,772,418
	November	WDW	0	334	296	1,241	210	0	0	WDW	98	0	0	2,109	238	4,526	3,776,944
	December	WDW	0	58	0	1,219	0	0	0	WDW	719	0	0	1,400	300	3,696	3,780,640
	TOTAL			136	4,002	1,961	18,024	6,627	5,046	611		2,663	0	0	18,085	1,652	58,807
1986	January	WDW	0	1	0	854	240	0	0	WDW	360	0	0	2,044	150	3,649	3,784,289
	February	WDW	0	521	0	889	450	326	0	WDW	254	0	0	555	40	3,035	3,787,324
	March	WDW	0	30	54	43	0	0	0	WDW	417	0	0	614	0	1,158	3,788,482
	April	WDW	0	0	0	1,411	0	434	0	WDW	0	0	0	1,839	50	3,734	3,792,216
	May	WDW	0	0	0	25	0	1,177	0	WDW	0	0	0	1,078	0	2,280	3,794,496
	June	WDW	0	0	0	1,035	0	1,050	721	WDW	422	0	0	2,155	0	5,383	3,799,879
	July	WDW	0	0	0	1,085	0	775	1,032	WDW	8	0	0	2,348	0	5,248	3,805,127
	August	WDW	0	0	0	956	0	895	287	WDW	0	0	0	1,783	0	3,921	3,809,048
	September	WDW	0	0	0	0	0	0	0	WDW	0	0	0	0	0	0	3,809,048
	October	WDW	0	0	0	0	0	0	0	WDW	0	0	0	0	0	0	3,809,048
	November	WDW	0	0	0	0	0	0	0	WDW	0	0	0	0	0	0	3,809,048
	December	WDW	0	0	0	0	0	0	0	WDW	0	0	0	0	0	0	3,809,048
	TOTAL			0	552	54	6,298	690	4,657	2,040		1,461	0	0	12,416	240	28,408

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Trap Spring Oil Field

	Northwest Exploration Co.										Chadco, Inc.		Texaco, Inc.		
	No. 1R	No. 1	No. 2	No. 3	Trap Spring No. 4	No. 8	No. 16	No. 17	No. 19	No. 9	Zuspann 24-1	Britton 24-3	Munson Ranch 13-33	13-42	13-24
1977															
November		2,139													
December		16,916													
TOTAL		19,055													
January		14,991													
February		27,150	1,924												
March		23,280	1,077												
April		21,190	1,444		266										
May		5,922	1,810	23,577	338										
June		5,495	3,385	22,230	291										
July		7,671	5,467	28,988	318						1,649				
August		11,402	5,648	37,910	0						4,988				
September		8,707	5,078	37,828	0	6,297		2,846			6,925				
October		4,232	5,038	30,860	0	25,981		23,581			10,060	1,046			
November		4,788	4,606	26,243	0	9,727		15,335			5,900	3,382			
December		2,567	4,725	15,599	94	6,903		10,831	5,243		5,431	352			
TOTAL		137,395	40,202	223,235	1,307	48,908		52,593	5,243		34,953	4,780			
1978															
January		4,483	3,489	15,547	72	15,787		12,922	6,523		2,926	0			
February		2,590	4,119	22,287	98	11,600		15,686	5,373		4,040	118			
March		1,334	1,699	10,981	0	4,619		9,718	5,068		3,043	2,667			
April		3,551	4,372	28,968	0	5,501		14,761	13,196		3,101	1,524			
May		3,123	4,286	35,842	0	4,822		15,624	28,373		1,614	848			
June		2,338	3,907	38,273	0	2,368		10,780	41,100		1,764	401	951		
July		2,625	4,077	41,946	0	647		9,149	47,001		1,995	792	828		
August		2,282	3,938	42,534	0	630		4,539	42,348		2,609	874	923		
September		298	24	39,307	0	0	1,787	0	44,809	28,710	2,481	724	869	91	
October		0	0	26,147	0	0	12,714	0	37,537	31,688	2,477	844	747	1,566	
November		0	1,518	27,690	665	0	7,503	0	38,956	23,042	2,641	683	668	1,093	
December		0	523	19,413	250	0	10,754	0	40,704	29,082	1,640	517	536	1,671	1,241
TOTAL		22,624	31,952	348,935	1,085	45,974	32,758	93,179	350,988	112,522	30,331	9,992	5,522	4,421	1,241
1979															
January		0	547	21,268	132	0	11,235	0	38,908	21,736	1,775	533	745	1,249	568
February		0	1,113	19,649	82	0	7,890	0	35,561	19,539	172	127	508	1,242	912
March		0	0	18,878	315	0	8,992	0	37,697	21,808	1,294	446	562	1,163	1,541
April		1,238	2,661	16,397	151	0	11,613	2,449	39,432	20,474	1,548	709	503	615	1,121
May		1,064	3,892	16,697	203	1,978	13,101	11,142	40,389	20,547	2,070	722	528	444	1,315
June		1,660	3,664	16,738	128	584	11,778	9,356	35,930	16,044	1,184	631	307	735	1,261
July		405	3,660	17,501	114	2,930	12,078	10,039	33,908	18,307	1,005	533	740	1,084	959
August		641	3,637	16,620	148	2,034	10,396	10,412	34,411	17,385	14	0	402	923	1,327
September		432	3,427	15,807	172	1,732	8,866	8,920	32,459	15,621	894	528	735	734	1,267
October		472	3,442	14,682	124	924	9,187	7,544	34,230	17,300	1,060	616	524	1,072	1,204
November		209	3,314	16,828	132	1,934	7,469	6,597	32,536	15,592	1,101	669	524	298	773
December		0	2,961	17,568	158	1,961	6,024	6,177	32,765	13,287	1,129	659	444	641	1,588
TOTAL		8,121	32,318	208,633	1,859	14,077	118,627	72,636	428,226	217,640	13,246	6,173	6,522	10,200	13,836
1980															
January		0	3,195	17,373	103	1,448	8,785	5,692	32,060	15,204	1,065	698	409	724	531
February		0	2,864	14,567	150	1,373	7,704	4,823	31,500	13,711	965	562	578	1,510	700
March		0	3,091	14,468	99	1,401	8,106	4,509	32,523	15,311	1,065	753	384	517	391
April		0	2,973	14,804	164	1,260	7,410	4,265	25,856	14,100	710	595	397	833	947
May		0	3,162	14,153	121	1,124	7,435	4,147	22,529	13,679	758	700	445	294	1,379
June		0	3,164	13,746	124	1,375	5,123	3,866	21,533	11,696	677	687	447	843	1,125
July		0	3,236	12,887	97	841	5,754	3,756	20,190	11,631	873	510	488	684	1,241
August		0	3,205	12,574	83	906	5,882	3,459	19,690	11,560	606	721	467	897	1,348
September		0	3,199	10,301	137	759	5,011	3,364	16,842	10,049	738	502	412	518	779
October		0	3,136	11,268	152	961	5,795	3,378	17,242	10,073	499	735	438	229	344
November		0	3,374	10,263	149	863	5,508	3,021	317	10,136	612	534	350	333	765
December		0	3,131	9,801	94	663	5,960	3,005	16,259	6,924	543	632	520	647	953
TOTAL		0	37,730	156,205	1,473	12,974	78,473	47,285	256,541	144,074	9,111	7,629	5,315	8,009	10,503
1981															
January		0	2,938	9,860	111	744	4,955	3,195	23,471	10,806	608	504	374	572	843
February	1,451	0	2,823	7,799	114	121	5,807	186	16,711	9,143	655	326	377	897	1,514
March	973	0	3,057	9,298	157	1,111	3,272	2,215	16,833	8,922	627	371	446	778	1,113
April	879	0	2,797	8,921	88	827	5,502	2,876	16,242	8,829	619	324	389	474	679
May	706	0	3,272	7,698	111	596	5,300	3,031	16,429	9,508	612	307	508	573	821
June	557	0	2,923	8,116	103	755	5,928	2,955	15,127	8,816	568	306	276	632	1,168
July	461	0	2,952	8,219	95	723	5,167	2,991	14,745	8,427	544	345	409	781	809
August	452	0	3,005	8,489	69	721	5,354	2,835	15,697	8,472	570	278	360	615	940
September	516	0	2,713	7,174	123	643	4,906	2,592	15,229	9,171	532	273	360	986	1,458
October	480	0	2,940	8,303	150	585	4,770	2,477	14,403	9,093	524	282	346	309	519
November	528	0	2,709	7,761	58	460	5,101	2,366	14,520	8,702	490	270	302	500	742
December	268	0	2,814	7,971	120	508	5,235	2,261	14,428	8,304	475	298	378	287	549
TOTAL	7,271	0	34,943	98,609	1,299	7,794	61,297	29,980	193,835	106,193	6,824	3,884	4,525	7,404	11,155

APPENDIX 4.—Nevada oil production statistics (continued)

Texaco, Inc.		Western Ave. Properties								J. N. Federal No. 1	Marathon Oil Co. Munson Ranch 13-1	Field Total	Cumulative Total	
14-34	14-23	14-24	12-34	Munson Ranch		12-33	12-24	12-44X	13-41X					
				13-31	13-32									
												2,139	2,139	November
												16,916	19,055	December
												19,055		
												14,991	34,046	January
												29,074	63,120	February
												24,357	87,477	March
												22,900	110,377	April
												31,647	142,024	May
												31,401	173,425	June
												44,093	217,518	July
												59,948	277,466	August
												67,681	345,147	September
												100,798	445,945	October
												69,981	515,926	November
												51,745	567,671	December
												548,616		
												61,749	629,420	January
												65,911	695,331	February
												39,129	734,460	March
												74,974	809,434	April
												94,532	903,966	May
												101,882	1,005,848	June
												109,060	1,114,908	July
												100,677	1,215,585	August
												119,100	1,334,685	September
												113,720	1,448,405	October
												104,459	1,552,864	November
												106,331	1,659,195	December
												1,091,524		
												98,696	1,757,891	January
												86,795	1,844,686	February
												92,696	1,937,382	March
												98,911	2,036,293	April
												114,092	2,150,385	May
												99,998	2,250,383	June
												103,263	2,353,646	July
												98,350	2,451,996	August
												91,594	2,543,590	September
												92,381	2,635,971	October
												87,976	2,723,947	November
												85,833	2,809,780	December
												1,150,585		
												87,652	2,897,432	January
												81,154	2,978,586	February
												82,979	3,061,565	March
												74,580	3,136,145	April
												70,244	3,206,389	May
												64,633	3,271,022	June
												62,371	3,333,393	July
												61,603	3,394,996	August
2,766												55,554	3,450,550	September
1,255												55,661	3,506,211	October
2,495												38,897	3,545,108	November
3,150												52,414	3,597,522	December
9,666												787,742		
1,717												60,829	3,658,351	January
2,175												50,303	3,708,654	February
1,595												50,929	3,759,583	March
1,206												50,791	3,810,374	April
1,082												50,679	3,861,053	May
740												49,054	3,910,107	June
617												47,511	3,957,618	July
1,155	2,118											49,309	4,006,927	August
1,939	587											49,374	4,056,301	September
1,021	960											47,333	4,103,634	October
1,337	2,367											48,365	4,151,999	November
958	959											45,950	4,197,949	December
15,542	6,991											600,427		

1977

1978

1979

1980

1981

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Trap Spring Oil Field (continued)

	Northwest Exploration Co.										Chadco, Inc.			Texaco, Inc.			
	No. 1R	No. 1	No. 2	No. 3	Trap Spring		No. 16	No. 17	No. 19	No. 9	Zuspann		Britton 13-21	Munson Ranch			
					No. 4	No. 8					24-1	24-3		13-33	13-42	13-24	
1982	January	415	0	2,901	7,933	100	522	5,224	2,342	14,185	8,101	449	296	256	352	248	65
	February	225	0	3,647	6,911	16	548	4,747	1,269	12,762	6,900	397	278	283	265	151	194
	March	288	0	4,220	7,227	116	757	5,006	842	13,991	7,167	433	314	389	418	705	108
	April	507	0	3,723	6,812	103	270	4,587	855	13,503	7,160	361	312	249	345	612	87
	May	237	0	3,651	6,888	120	482	4,598	585	13,700	6,232	340	341	300	289	629	101
	June	201	0	3,459	6,733	57	587	3,993	635	12,639	5,979	295	305	346	496	655	94
	July	430	0	2,672	7,041	104	343	3,507	1,215	12,632	6,149	264	372	298	261	430	40
	August	93	0	4,260	6,907	104	439	4,263	1,362	12,174	5,594	307	336	366	315	492	115
	September	332	0	3,782	6,353	43	556	4,609	1,358	11,792	4,421	279	302	275	407	522	92
	October	251	0	3,818	6,411	127	437	3,413	1,743	12,609	8,408	389	224	339	298	411	84
	November	128	0	3,440	5,995	35	269	3,653	1,791	11,158	12,275	407	210	369	902	907	111
	December	533	0	4,513	6,242	80	389	3,581	516	11,937	12,893	493	191	349	524	1,309	95
	TOTAL	3,640	0	44,086	81,453	1,005	5,599	51,181	14,513	153,082	91,279	4,414	3,481	3,819	4,872	7,069	1,186
1983	January	120	0	4,019	6,165	56	297	4,835	594	10,791	11,380	449	201	343	383	1,074	83
	February	127	0	3,539	5,317	49	227	4,409	541	9,652	11,207	398	169	277	395	905	83
	March	173	0	3,875	5,808	53	117	5,088	326	10,295	13,453	428	183	359	885	705	32
	April	250	0	3,622	5,573	86	280	4,355	2	9,348	14,012	399	169	336	1,008	1,209	80
	Western Ave. Properties																
	May	101	0	3,720	5,524	66	125	4,474	0	9,154	13,286	410	176	297	159	1,173	76
	June	288	0	3,540	5,262	78	158	3,737	0	8,927	10,772	379	160	328	307	1,170	76
	July	150	0	3,806	5,401	69	380	5,344	3	8,534	13,239	328	151	263	671	1,057	0
	August	126	0	3,705	6,427	91	323	12,880	86	10,106	11,365	384	170	307	631	1,038	0
	September	370	0	3,577	6,165	28	275	6,824	54	9,568	3,931	358	174	302	411	1,347	0
	October	121	0	3,857	6,762	39	757	9,145	6	9,649	6,324	350	174	263	359	987	75
	November	181	0	3,671	5,836	25	529	8,028	-85	8,866	5,510	345	164	327	360	990	0
	December	278	0	3,719	5,500	72	718	8,420	0	9,072	7,972	321	175	321	343	890	0
TOTAL	2,285	0	44,650	69,740	712	4,186	77,539	1,527	113,962	122,451	4,549	2,066	3,723	5,912	12,545	505	
1984	January	143	0	3,627	5,635	39	420	10,225	0	9,275	10,088	335	169	333	343	810	93
	February	192	0	3,339	4,778	14	366	9,410	0	8,341	9,835	271	153	186	230	847	89
	March	436	0	3,545	5,146	54	329	6,388	0	8,973	9,262	268	170	314	425	946	84
	April	316	0	3,313	5,091	11	157	8,051	0	8,762	8,234	276	144	238	402	919	90
	Mapco Oil & Gas Co.																
	May	162	0	3,374	5,092	34	327	10,121	123	9,375	9,082	280	151	311	334	684	86
	June	422	0	3,463	4,799	36	363	9,938	0	8,540	8,951	284	147	182	322	781	82
	July	415	0	3,432	2,899	23	575	9,079	0	8,573	9,840	299	161	278	372	927	92
	August	403	0	3,495	6,765	73	1,024	2,772	8	8,318	6,219	234	150	264	443	894	93
	September	427	0	3,300	5,014	108	2,173	0	1	8,326	4,679	284	160	281	257	812	85
	October	410	0	3,337	4,970	38	1,779	5,172	0	7,872	5,736	279	164	270	326	854	89
	November	441	0	3,242	4,419	82	351	7,062	23	6,942	6,383	252	123	238	319	839	86
	December	261	0	3,346	5,006	62	358	5,230	0	6,694	4,526	322	16	270	342	900	94
TOTAL	4,028	0	40,813	59,614	574	8,222	83,448	155	99,991	92,835	3,384	1,708	3,165	4,115	10,213	1,063	
1985	CNG Producing																
	January	0	0	3,269	4,357	0	318	6,533	0	6,983	1,876	171	0	257	340	893	93
	February	0	0	2,927	4,183	51	295	5,750	0	5,944	4,637	252	0	326	308	812	84
	Harper Oil Co.																
	March	0	0	3,978	4,499	88	581	6,785	0	6,315	4,896	287	78	329	341	897	94
	April	133	0	3,935	4,558	32	385	6,412	0	6,221	8,083	294	128	329	328	856	90
	May	254	0	3,965	4,178	0	202	7,169	0	5,816	8,889	244	126	178	342	901	94
	June	207	0	3,709	4,572	50	255	4,158	0	5,191	8,202	331	95	353	323	560	79
	July	401	0	4,180	4,572	0	204	4,071	0	4,376	4,705	243	115	296	334	645	66
	August	102	0	3,486	4,304	34	249	5,109	0	6,570	5,796	253	84	280	315	458	62
	September	356	209	3,955	4,243	47	223	4,417	0	5,706	7,248	272	77	320	245	863	80
	October	107	263	4,380	3,836	0	261	4,393	0	5,206	6,708	252	81	248	240	819	89
	November	138	451	4,060	3,634	0	303	5,771	0	5,148	7,748	247	72	277	253	526	90
December	160	374	4,256	4,264	0	150	5,806	0	5,584	8,120	223	65	318	194	675	91	
TOTAL	1,858	1,297	46,100	51,180	302	3,426	66,374	0	69,060	76,908	3,069	921	3,511	3,563	8,905	1,012	
1986	January	147	51	4,573	4,062	0	229	5,735	0	5,852	6,554	252	66	278	94	738	90
	February	122	19	4,331	3,396	0	164	4,611	0	4,848	4,925	244	50	205	252	699	83
	March	0	4	4,579	2,894	0	0	5,248	0	6,823	6,049	283	59	255	262	731	89
	April	199	0	4,460	4,753	0	74	5,234	0	6,608	5,128	210	2	168	234	649	77
	May	0	0	4,523	3,759	0	24	5,325	0	6,232	2,228	145	0	189	286	793	94
	June	0	0	4,321	3,943	0	0	4,680	0	5,010	0	0	0	0	264	736	89
	July	0	0	4,290	3,622	0	0	4,519	0	4,854	0	0	0	0	278	767	93
	August	0	0	4,767	3,008	0	0	4,453	0	4,809	0	0	0	415	162	719	93
	Apache Corp.																
	September	0	0	4,424	2,962	0	0	3,860	0	3,874	0	0	0	0	271	482	88
	October	0	0	4,603	3,382	0	0	3,545	0	4,560	598	0	0	226	278	241	93
	November	0	0	4,338	3,773	0	0	2,868	0	4,229	3,255	0	0	262	264	848	86
	December	0	0	4,678	3,727	0	0	3,332	0	4,149	5,596	0	0	266	278	894	92
TOTAL	468	74	53,887	43,281	0	491	53,410	0	61,848	34,333	1,134	177	2,264	2,923	8,297	1,067	

APPENDIX 4.—Nevada oil production statistics (continued)

Texaco, Inc.		Western Ave. Properties								Marathon Oil Co.		Field Total	Cumulative Total	
14-34	14-23	14-24	12-34	Munson Ranch		12-33	12-24	12-44X	13-41X	J. N. Federal No. 1	Munson Ranch 13-1			
891	2,220			13-31	13-32							46,498	4,244,447	January
1,018	504											40,115	4,284,562	February
922	1,423											44,326	4,328,888	March
392	1,479											41,357	4,370,245	April
467	1,868											40,828	4,411,073	May
490	1,363											38,327	4,449,400	June
267	2,061											38,086	4,487,486	July
449	1,294											38,870	4,526,356	August
600	1,544											37,267	4,563,623	September
646	1,431											41,039	4,604,662	October
372	2,065											44,087	4,648,749	November
406	1,830											45,881	4,694,630	December
6,920	19,082											496,681		
357	1,856											43,003	4,737,633	January
426	1,971											39,692	4,777,325	February
224	1,583											43,587	4,820,912	March
274	724											41,727	4,862,639	April
397	2,023											41,161	4,903,800	May
277	1,294											36,753	4,940,553	June
384	1,794											41,574	4,982,127	July
359	1,693											49,691	5,031,818	August
360	1,557											35,301	5,067,119	September
319	1,551											40,738	5,107,857	October
362	1,314	1,787										38,210	5,146,067	November
273	1,479	1,769										41,322	5,187,389	December
4,012	18,839	3,556										492,759		
236	1,085	1,522										44,378	5,231,767	January
263	1,151	655										40,120	5,271,887	February
287	1,247	1,294										39,168	5,311,055	March
251	1,122	1,251										38,628	5,349,683	April
258	938	515			1,480							42,727	5,392,410	May
328	582	430			1,642							41,292	5,433,702	June
390	900	825			1,311							40,391	5,474,093	July
240	780	726		6,239	1,180							40,320	5,514,413	August
338	845	704		6,995	5,207							39,996	5,554,409	September
358	894	745		7,242	4,796							45,331	5,599,740	October
326	871	675	11,681	6,184	3,558							54,097	5,653,837	November
373	933	778	17,514	5,531	3,826							56,382	5,710,219	December
3,648	11,348	10,120	29,195	32,191	23,000							522,830		
370	923	770	13,940	4,034	3,787							48,914	5,759,133	January
336	840	700	10,603	3,444	3,444							44,916	5,804,049	February
371	891	771	10,942	3,910	3,092							49,145	5,853,194	March
354	887	738	9,768	3,840	2,221	79						49,671	5,902,865	April
370	796	776	9,514	4,037	2,030	537	2,521					52,939	5,955,804	May
333	881	739	8,884	3,369	1,867	591	2,669					47,418	6,003,222	June
370	906	747	8,944	3,489	1,949	618	2,749	343				44,323	6,047,545	July
348	884	766	8,697	3,436	1,919	498	2,251	460			1,068	47,429	6,094,974	August
327	760	746	8,575	3,214	1,697	442	2,038	493			973	47,526	6,142,500	September
325	743	530	7,996	2,789	1,613	292	1,804	470	1,159		0	44,604	6,187,104	October
240	751	751	7,345	3,022	1,624	456	2,113	302	4,539		605	50,466	6,237,570	November
296	776	776	7,122	3,133	1,705	419	2,202	230	4,666	2,459	1,407	55,471	6,293,041	December
4,040	10,038	8,810	112,330	41,717	26,948	3,932	18,347	2,298	10,364	2,459	4,053	582,822		
326	738	721	6,486	3,085	1,616	326	2,105	178	0	5,684	1,060	51,046	6,344,087	January
307	699	622	6,128	2,906	1,505	307	1,985	168	4,146	5,331	631	48,684	6,392,771	February
325	737	737	5,477	3,016	1,578	161	2,089	0	4,233	5,260	27	50,916	6,443,687	March
330	748	748	4,331	2,698	1,400	0	2,124	0	4,100	3,987	0	48,262	6,491,949	April
350	793	793	5,283	3,226	1,714	0	2,201	0	4,442	3,390	0	45,790	6,537,739	May
325	736	736	4,807	2,712	1,597	206	1,798	0	3,739	2,548	88	38,335	6,576,074	June
341	687	573	4,944	2,666	1,492	310	1,806	354	3,948	2,098	0	37,642	6,613,718	July
332	685	556	4,900	2,634	1,470	306	1,887	561	3,911	1,831	0	37,499	6,651,215	August
332	663	542	4,597	2,589	1,445	281	1,837	542	3,599	1,136	0	33,524	6,684,739	September
342	597	408	4,499	2,653	1,481	310	1,720	538	3,703	696	0	34,473	6,719,212	October
325	652	408	4,244	2,535	1,414	297	1,431	439	3,560	477	0	35,705	6,754,917	November
338	678	370	4,440	2,651	1,481	308	1,419	286	3,512	146	0	38,641	6,793,558	December
3,973	8,413	7,214	60,136	33,371	18,193	2,812	22,402	3,066	42,893	32,584	1,806	500,517		TOTAL

continued

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Curreant, Bacon Flat, Blackburn, and Grant Canyon Fields

	Northwest Exploration Curreant		Bacon Flat		Amoco Production Co. Blackburn						Northwest Exploration Grant Canyon					Marathon Oil Co. Kate Spring	
	No. 1	Cumulative Total	No. 1	Cumulative Total	No. 3	No. 10	No. 14	No. 16	Field Total	Cumulative Total	No. 1	No. 3	No. 4	Field Total	Cumulative Total	No. 1	Cumulative Total
1979	February	135	135														
	March	108	241														
	April	357	598														
	May	26	624														
	June	0	624														
	July	11	635														
	August	0	635														
	September	0	635														
	October	0	635														
	November	0	635														
	December	0	635														
	TOTAL	635															
1980	January	0	635														
	February	0	635														
	March	0	635														
	April	0	635														
	May	0	635														
	June	0	635														
	July	0	635														
	August	0	635														
	September	0	635														
	October	0	635														
	November	0	635														
	December	0	635														
	TOTAL	0															
1981	January	0	635														
	February	0	635														
	March	0	635														
	April	0	635														
	May	0	635														
	June	0	635														
	July	0	635	2,732	2,732												
	August	0	635	3,730	6,462												
	September	0	635	5,155	11,617												
	October	0	635	5,848	17,463												
	November	0	635	5,325	22,788												
	December	0	635	4,543	27,331												
	TOTAL	0		27,331													
1982	January	Shut in	635	4,842	32,173												
	February	Shut in	635	4,117	36,290												
	March	Shut in	635	4,147	40,437												
	April	Shut in	635	3,756	44,193	2,984			2,984	2,984							
	May	Shut in	635	3,268	47,461	2,369			2,369	5,353							
	June	Shut in	635	2,902	50,363	8,538			8,538	13,891							
	July	Shut in	635	2,667	53,030	216			216	14,107							
	August	Shut in	635	2,492	55,522	1,230			1,230	15,337							
	September	Shut in	635	1,851	57,373	353			353	15,690							
	October	Shut in	635	2,428	59,801	1,339			1,339	17,029							
	November	Shut in	635	2,070	61,871	7,264			7,264	24,293							
	December	Shut in	635	2,543	64,414	10,640			10,640	34,933							
	TOTAL	0		37,083	34,933				34,933								
1983	January	Shut in	635	1,719	66,133	8,258			8,258	43,191							
	February	Shut in	635	224	66,357	5,598			5,598	48,789							
	March	Shut in	635	220	66,577	5,740			5,740	54,529							
	April	Shut in	635	203	66,780	0			0	54,529							
	May	Shut in	635	206	66,986	0			0	54,529							
	June	Shut in	635	1,845	68,831	0			0	54,529							
	July	1	636	762	69,593	0			0	54,529							
	August	2	638	1,490	71,083	299			299	54,828							
	September	2	640	2,764	73,847	1,006	2,471		3,477	58,305	24,899			24,899	24,899		
	October	1	641	2,136	75,983	1,523	15,170		16,693	74,998	46,685			46,685	71,584		
	November	0	641	1,950	77,933	2,289	9,956		12,245	87,243	44,591			44,591	116,175		
	December	0	641	276	78,209	1,652	13,638		15,290	102,533	47,014			47,014	163,189		
	TOTAL	6		13,795		26,365	41,235		67,600		163,189			163,189			

APPENDIX 4.—Nevada oil production statistics (continued)

Production of the Currant, Bacon Flat, Blackburn, and Grant Canyon Fields (continued)

		Northwest Exploration		Mapco Oil & Gas Co.		Amoco Production Co.					Mapco Oil & Gas Co.					Marathon Oil Co.		
		Currant		Bacon Flat		Blackburn					Grant Canyon					Kate Spring		
		No. 1	Cumulative Total	No. 1	Cumulative Total	No. 3	No. 10	No. 14	No. 16	Field Total	Cumulative Total	No. 1	No. 3	No. 4	Field Total	Cumulative Total	No. 1	Cumulative Total
1984	January	Shut in	641	280	78,489	2,303	4,725			7,028	109,561	47,076			47,076	210,265		
	February	Shut in	641	2,076	80,565	2,044	1,020			3,064	112,625	44,860			44,860	255,125		
	Marathon Oil Co.																	
	March	Shut in	641	3,057	83,622	2,551	6,596			9,147	121,772	47,483			47,483	302,608		
	April	Shut in	641	3,095	86,717	1,753	8,285			10,038	131,810	45,194			45,194	347,802		
	May	Shut in	641	2,034	88,751	4,069	8,092			12,161	143,971	46,272			46,272	394,074		
	June	Shut in	641	149	88,900	5,976	7,417			13,393	157,364	44,295		18,042	62,337	456,411		
	July	Shut in	641	129	89,029	6,152	6,445			12,597	169,961	45,684	660	44,668	91,012	547,423		
	August	Shut in	641	19	89,048	6,469	8,821			13,290	183,251	44,309	29,293	52,087	125,689	673,112		
	September	Shut in	641	16	89,064	4,871	4,905			9,776	193,027	38,516	59,941	60,619	159,076	832,188		
	October	Shut in	641	0	89,064	6,393	10,137			16,530	209,557	36,301	64,472	68,305	169,078	1,001,266		
	November	Shut in	641	0	89,064	8,232	8,599			16,831	226,388	32,949	58,836	67,957	159,742	1,161,008		
	December	Shut in	641	0	89,064	6,829	5,057			11,686	238,074	32,804	65,835	72,253	170,892	1,331,900		
	TOTAL	0		10,855		57,442	78,099			135,541		505,743	279,037	383,931	1,168,711			
1985	CNG Producing																	
	January	Shut in	641	0	89,064	6,307	1,678			7,985	246,059	27,756	66,628	74,678	169,062	1,500,962		
	February	Shut in	641	0	89,064	5,347	5,405			10,752	256,811	22,670	59,292	68,523	150,485	1,651,447		
	Harper Oil Co.																	
	March	Shut in	641	0	89,064	8,884	3,221			12,105		15,086	79,204	80,891	175,181	1,826,628		
	April	Shut in	641	1,410	90,474	9,735	730			10,465	279,381	9,831	82,942	78,689	171,462	1,998,090		
	May	Shut in	641	4,423	94,897	9,677	3,409			13,086	292,467	3,046	92,446	83,454	178,946	2,177,036		
	June	Shut in	641	5,331	100,228	9,966	4,851			14,817	307,284	1,817	92,277	81,109	175,203	2,352,239		
	July	Shut in	641	7,603	107,831	9,595	3,383	18,494		31,472	338,756	1,890	94,057	84,506	180,453	2,532,692		
	August	Shut in	641	7,425	115,256	7,142	2,533	25,904		35,579	374,335	5,142	92,738	84,973	182,853	2,715,545		
	September	Shut in	641	4,277	119,533	7,407	2,425	23,969		33,801	408,136	1,850	83,200	75,569	160,619	2,876,164		
	October	Shut in	641	5,878	125,411	6,164	2,814	23,368		32,346	440,482	1,965	86,065	79,934	167,964	3,044,128		
	November	Shut in	641	5,167	130,578	7,791	6,465	21,988		36,244	476,726	1,351	91,029	73,346	165,726	3,209,854		
	December	Shut in	641	6,428	137,006	8,734	4,329	22,285	10,013	45,361	522,087	1,871	103,296	82,626	187,793	3,397,647		
TOTAL	0		47,942		96,749	41,243	136,008	10,013	284,013		94,275	1,023,174	948,298	2,065,747				
1986	January	0	641	5,794	142,800	7,174	3,550	20,835	23,489	55,048	577,135	414	109,746	77,826	187,986	3,585,633	1,265	1,265
	February	0	641	5,028	147,828	7,466	2,582	17,931	14,886	42,865	620,000	116	97,127	69,127	166,370	3,752,003	256	1,521
	March	0	641	4,124	151,952	7,342	1,943	17,496	19,254	46,035	666,035	0	103,630	56,022	159,652	3,911,655	0	1,521
	April	P&A	641	4,823	156,775	6,985	1,111	17,300	14,916	40,312	706,347	0	98,163	36,454	134,617	4,046,272	0	1,521
	May	P&A	641	6,147	162,922	6,241	2,957	16,867	15,556	41,621	747,968	0	99,796	40,014	139,810	4,186,082	0	1,521
	June	P&A	641	5,664	168,586	4,964	2,237	15,836	13,668	36,905	784,873	0	89,948	43,407	133,355	4,319,437	0	1,521
	July	P&A	641	7,732	176,318	2,544	2,298	15,501	12,820	33,163	818,036	0	91,746	48,346	140,092	4,459,529	0	1,521
	August	P&A	641	6,557	182,875	2,229	1,774	14,235	11,657	29,895	847,931	0	95,774	44,142	139,916	4,599,445	0	1,521
	Apache Corp.																	
	September	P&A	641	6,431	189,306	3,672	0	14,115	11,020	28,807	876,738	0	92,481	42,507	134,988	4,734,433	0	1,521
	October	P&A	641	7,275	196,581	5,291	529	12,454	11,845	30,119	906,857	0	111,264	52,745	164,009	4,898,442	0	1,521
	November	P&A	641	6,601	203,182	4,522	1,669	12,516	9,680	28,387	935,244	0	126,663	54,933	181,596	5,080,038	0	1,521
	December	P&A	641	6,467	209,649	3,133	286	14,800	9,787	28,006	963,250	0	126,005	54,388	180,393	5,260,431	0	1,521
	TOTAL	0		72,643		61,563	20,936	189,886	168,778	441,163		530	1,242,343	619,911	1,862,784		1,521	

P&A—plugged and abandoned.

APPENDIX 5.—List of wells that have recorded production

BACON FLAT FIELD (Nye County)
NORTHWEST EXPLORATION CO.
Bacon Flat No. 1

BLACKBURN FIELD (Eureka County)
AMOCO PRODUCTION CO.
Blackburn No. 3
Blackburn No. 10
Blackburn No. 14
Blackburn No. 16

CURRENT FIELD (Nye County)
NORTHWEST EXPLORATION CO.
Currant No. 1

EAGLE SPRINGS FIELD (Nye County)
SHELL OIL CO.
Eagle Springs Unit No. 1-35
Eagle Springs Unit No. 15-35
Eagle Springs Unit No. 35-35
Eagle Springs Unit No. 62-35
TEXOTA OIL CO.
Eagle Springs Unit No. 1-34
Eagle Springs Unit No. 43-36
Eagle Springs Unit No. 45-36
Eagle Springs Unit No. 73-35
Eagle Springs Unit No. 74-35
Eagle Springs Unit No. 84-35
WESTERN OIL LANDS, INC.
Pennington-Federal No. 1
Pennington-Federal No. 2
Pennington-Federal No. 4
Pennington-Federal No. 5

GRANT CANYON FIELD (Nye County)
MAPCO OIL & GAS CO.
Grant Canyon No. 3
Grant Canyon No. 4
NORTHWEST EXPLORATION CO.
Grant Canyon No. 1

KATE SPRING FIELD (Nye County)
MARATHON OIL CO.
Kate Spring No. 1

TRAP SPRING FIELD (Nye County)
CHADCO, INC.
Britton No. 13-21
Zuspann No. 24-1
Zuspann No. 24-3
MARATHON OIL CO.
Munson Ranch No. 13-1
NORTHWEST EXPLORATION CO.
Trap Spring No. 1
Trap Spring No. 1-R
Trap Spring No. 2
Trap Spring No. 3
Trap Spring No. 4
Trap Spring No. 8
Trap Spring No. 9
Trap Spring No. 16
Trap Spring No. 17
Trap Spring No. 19
TEXACO, INC.
Munson Ranch No. 13-24
Munson Ranch No. 13-33
Munson Ranch No. 13-42
Munson Ranch No. 14-23
Munson Ranch No. 14-34
WESTERN AVENUE PROPERTIES
J.N. Oil & Gas Federal No. 1
Munson Ranch No. 12-24
Munson Ranch No. 12-33
Munson Ranch No. 12-34
Munson Ranch No. 12-44X
Munson Ranch No. 13-31
Munson Ranch No. 13-32
Munson Ranch No. 13-41X
Munson Ranch No. 14-24

APPENDIX 6.—Selected source-rock data from petroleum exploration wells in Nevada

TOC = total organic carbon. S₁ = hydrocarbons already present in the sample that would be liberated by temperatures of 200–250°C. S₂ = hydrocarbons and related compounds generated at higher temperatures by pyrolysis of insoluble kerogen. S₃ = yield of CO₂ in mg/g of sample tested. C₁₅₊ = total organic extracts from sample (ppm). R₀ = vitrinite reflectance. TAI = thermal alteration index. T_{max} = temperature at the point of maximum hydrocarbon generation during pyrolysis.

The above listed definitions are from Poole and Claypool (1984), and Tissot and Welte (1984).

Abbreviations of kerogen types: am = amorphous, ex = exinite, in = inertinite, vi = vitrinite.

Sources of data: 1) Amoco Production Co.; 2) Cities Service Co.; 3) Robertson Research; 4) Poole and Claypool (1984), tests by T. A. Daws; 5) Waanders Palynology Consulting, Inc.; 6) Core Laboratories, Inc.; 7) Mobil Research and Development Corp.; 8) Barrett (1987).

n.d. = no data. * = insufficient sample or data.

Operator	Interval (ft)	Formation or age	Lithology	TOC (wt. %)	S ₁ (mg/g)	S ₂ (mg/g)	S ₃ (mg/g)	S ₁ +S ₂ (mg/g)	S ₂ /S ₃	$\frac{S_1}{S_1+S_2}$	C ₁₅₊ (ppm)	R ₀ (%)	TAI	T _{max} (°C)	Kerogen type	Source
CHURCHILL COUNTY																
Halbouty, Michael T. Federal No. 1	1,100-1,200			0.34	0.22	0.49	0.66	0.71	0.74	0.31				425		1
	1,800-1,900			0.53	0.39	0.81	0.82	1.20	0.99	0.35				423		1
	2,000-2,100			0.75	0.51	1.64	1.13	2.15	1.45	0.24				426		1
	2,200-2,300			0.33	0.31	0.40	0.56	0.71	0.71	0.44				*		1
ELKO COUNTY																
Aminoil USA, Inc. S.P. Land Company No. 1-23	4,214	Chainman Sh.		4.55				0.084		1.00						4
	4,690-4,890			0.79							906	0.48	2-		50% vitrinite	2
	4,822	Chainman Sh.		0.74				0.019		1.00						4
	5,430	Chainman Sh.		1.33				0.210		1.00						4
	5,430-5,444	Chainman Sh.		0.95				2.76		0.12				430		4
	5,540-5,570	Chainman Sh.		4.71				5.32		0.03				430		4
	5,570-5,600	Chainman Sh.		2.43				4.93		0.03				427		4
	5,600-5,630	Chainman Sh.		2.86				10.6		0.02				430		4
	5,630-5,660	Chainman Sh.		3.51				11.4		0.03				429		4
	5,660-5,690	Chainman Sh.		1.39				5.41		0.04				426		4
	5,690-5,720	Chainman Sh.		1.02				3.90		0.06				425		4
	5,720-5,750	Chainman Sh.		0.73				2.29		0.07				428		4
	5,750-5,780	Chainman Sh.		0.47				1.28		0.13				423		4
	5,780-5,810	Chainman Sh.		0.38				1.08		0.14				423		4
	5,810-5,840	Chainman Sh.		0.69				1.14		0.09				428		4
	5,840-5,870	Chainman Sh.		0.69				0.96		0.12				420		4
	5,870-5,900	Chainman Sh.		1.17				1.23		0.09				436		4
	5,900-5,930	Chainman Sh.		2.08				7.75		0.04				431		4
	5,930-5,960	Chainman Sh.		1.10				2.57		0.06				428		4
	5,960-5,990	Chainman Sh.		1.02				3.26		0.10				430		4
	5,990-6,020	Chainman Sh.		0.96				3.84		0.07				430		4
	6,020-6,050	Chainman Sh.		0.82				1.00		0.13				428		4
	6,050-6,080	Chainman Sh.		0.97				3.65		0.07				435		4
	6,080-6,110	Chainman Sh.		0.61				2.88		0.06				434		4
	6,080-6,110	Chainman Sh.		0.94				2.44		0.07				435		4
	6,110-6,140	Chainman Sh.		0.63				1.20		0.11				428		4
	6,140-6,170	Chainman Sh.		2.01				1.57		0.08				436		4
	6,170-6,200	Chainman Sh.		4.18				10.1		0.02				440		4
	6,200-6,230	Chainman Sh.		4.60				7.14		0.04				431		4
	6,230-6,260	Chainman Sh.		3.65				9.23		0.03				433		4
	6,260-6,290	Chainman Sh.		3.26				6.79		0.05				437		4
	6,290-6,320	Chainman Sh.		3.26				12.0		0.03				438		4
	6,320-6,350	Chainman Sh.		3.40				8.99		0.03				438		4
	6,350-6,380	Chainman Sh.		3.71				10.3		0.03				435		4
	6,380-6,410	Chainman Sh.		3.13				8.66		0.03				443		4
	6,410-6,440	Chainman Sh.		3.77				14.9		0.02				443		4
	6,440-6,470	Chainman Sh.		3.79				10.0		0.03				432		4
	6,470-6,500	Chainman Sh.		2.60				6.93		0.06				438		4
	6,500-6,530	Chainman Sh.		1.96				6.84		0.09				440		4
	6,530-6,560	Chainman Sh.		2.04				4.55		0.06				438		4
	6,560-6,590	Chainman Sh.		2.97				7.20		0.06				440		4
	6,590-6,620	Chainman Sh.		2.46				5.98		0.04				445		4
	6,620-6,650	Chainman Sh.		2.97				8.59		0.04				440		4
	6,650-6,680	Chainman Sh.		1.69				4.51		0.04				449		4
	6,680-6,710	Chainman Sh.		2.39				7.72		0.05				434		4
	6,710-6,740	Chainman Sh.		1.79				6.96		0.04				440		4
	6,740-6,770	Chainman Sh.		1.86				4.48		0.04				446		4
	6,770-6,800	Chainman Sh.		1.66				5.49		0.06				443		4
	6,800-6,830	Chainman Sh.		1.12				4.59		0.09				444		4
	6,830-6,860	Chainman Sh.		1.11				2.73		0.07				444		4
	6,860-6,890	Chainman Sh.		1.74				3.22		0.09				438		4
	6,890-6,920	Chainman Sh.		0.88				1.69		0.17				444		4
	6,920-6,950	Chainman Sh.		1.03				2.88		0.20				439		4
	6,950-6,980	Chainman Sh.		1.00				2.13		0.12				439		4
	6,980-7,010	Chainman Sh.		2.27				3.93		0.09				444		4
	7,010-7,040	Chainman Sh.		4.17				7.49		0.08				444		4
	7,040-7,070	Chainman Sh.		4.91				7.11		0.07				448		4
	7,070-7,100	Chainman Sh.		5.54				6.90		0.06				449		4
	7,100-7,130	Chainman Sh.		4.36				6.11		0.08				453		4
	7,130-7,145	Chainman Sh.		3.61				8.27		0.09				442		4
	5,240-5,570			1.04							481	0.94	2+		75% amorphous	3
	6,800-7,145			4.71							998	0.97	2+		75% amorphous	3(?)

continued

APPENDIX 6.—Selected source-rock data from petroleum exploration wells in Nevada (continued)

Operator	Interval (ft)	Formation or age	Lithology	TOC (wt. %)	S ₁ (mg/g)	S ₂ (mg/g)	S ₃ (mg/g)	S ₁ +S ₂ (mg/g)	S ₂ /S ₃	$\frac{S_1}{S_1+S_2}$	C ₁₄₊ (ppm)	R _o (%)	TAI	T _{max} (°C)	Kerogen type	Source
ELKO COUNTY (continued)																
Filon Exploration Co.																
Ellison No. 1	4,230-4,300			0.16								3.05	4+		55% amorphous	3
Gulf Oil Corp. of Calif.																
Owl Hill Federal No. 1	751-1,357	Mississippian		0.51							845	2.11	3+		40% vitrinite	3
Gulf Refining Co.																
Mary's River Fed. No. 1	1,965-2,175			0.47							742				50% amorphous	3
Pete Itcaina No. 1	3,585-3,593	Chainman Sh.	black sh.	0.88							665	2.64	4.0		40% vitrinite	2
	4,200-4,213	Chainman Sh.	black sh.	0.47											80% amorphous	2
Thousand Springs No. 1	1,500-1,800			0.75							1,002				60% amorphous	3
	4,828-4,854	late Paleozoic	black sh.	1.34							1,662				85% amorphous	2
	6,000-6,050														80% amorphous	3
	7,966-7,974	late Paleozoic	black sh.	1.32							617				85% amorphous	2
Wilkins Ranch No. 1	3,907-3,947	Elko Fm.(?)		0.65							2,581	0.82	2+		65% amorphous	2
	6,637-6,655	Elko Fm.(?)		0.57							1,862	0.78	2+		50% exinite	2
	7,344-7,365	Elko Fm.(?)		0.96							2,517	1.01?	3-		90% amorphous	2
Wilkins Ranch No. 2	3,655-3,700			0.25							460				75% vitrinite	3
	4,100-4,125			0.12							407				50% exinite	3
	4,708-4,938	Mississippian(?)		0.69							18,325				85% amorphous	3
Ladd Petroleum Corp.																
Federal No. 1-31-N	4,600-4,850	Paleozoic(?)		1.10							103	2.97	4		45% amorphous	3
	5,800-6,000	Paleozoic(?)		0.97							154	3.12	4+		40% am, 40% vi	3
	6,850-7,100			0.94							210	3.07	4+		40% am, 40% vi	3
McCarthy Oil Co.																
Rahas No. 1	2,700-3,000			0.21							834				70% amorphous	3
	3,675-4,000	Mississippian(?)		0.79							597				80% amorphous	3
Pan American Petroleum																
U.S.A. Franklin No. 1	11,580-11,610	Chainman Fm.(?)	ls.	.21	0.07	0.01	0.42	0.08	0.02	0.88		2.29*		432	inertinite	6
	11,660-11,710	Chainman Fm.(?)	sh./ls.	.94	0.15	0.26	0.47	0.41	0.55	0.37		2.97*		393	inertinite	6
	11,760-11,810	Chainman Fm.(?)	sh.	1.58	0.17	0.26	0.46	0.43	0.57	0.40		2.34*		413	inertinite	6
	11,780-11,820	Chainman Sh.	black sh.	1.79							1,432	6.13	5.0		40% am, 40% vi	2
	11,860-11,910	Chainman Fm.(?)	sh.	1.19	0.22	0.26	0.47	0.48	0.55	0.46		2.37*		410	inertinite	6
	11,960-12,010	Chainman Fm.(?)	sh.	.93	0.17	0.20	0.50	0.37	0.40	0.46		2.51*		405	inertinite	6
	13,000-13,100	Pilot Sh.	black sh.	0.81												2
	13,060-13,110	Pilot Sh.(?)	sh.	.53	0.09	0.15	0.53	0.24	0.28	0.38		n.d.		423	inertinite	6
	3,440-3,850			0.10							1,790	3.07(?)	4+		55% amorphous	3
U.S.A. Jiggs No. 1	13,100-13,590			0.35							216	3.36	4+		40% am, 40% vi	3
	13,180-13,200	Mississippian											3.0		85% sapropel	5
	13,400-13,420	Mississippian											3		60% woody	5
	13,400-13,590			0.60							168	3.29	4+		40% vitrinite	3
	6,720-6,980			0.55							1,990	1.04	3-		55% vitrinite	3
Richfield Oil Corp.																
Rabbit Creek Unit	2,700-3,000			0.15							234				40% am, 40% ex	3
No. 1	3,002-3,028	Elko Fm.	gray sh.	0.30							344					2
	3,901-3,903	late Paleozoic	black ls. (sh.?)	3.41							654					2
	5,455-5,458	late Paleozoic	black sh.	2.43												2
	5,945-5,948	late Paleozoic	black ls. (sh.)	1.20							376					2
	6,700-6,900	Mississippian(?)		0.32							226	4.42	5		40% vi, 40% in	3
	7,337-7,349	late Paleozoic	black ls.	0.31												2
Scott-Ogilvie No. 1	1,122-1,129	Elko Fm.(?)		2.39							5,589	0.61	2		60% amorphous	2
	1,637-1,675	Elko Fm.(?)		0.96								0.68	2		50% vitrinite	2
	1,720-1,736	Elko Fm.(?)		4.07							2,194	0.84	2+		60% vitrinite	2
EUREKA COUNTY																
Shell Oil Co.																
Diamond Valley Unit	7,782-7,789	late Paleozoic	black ls.	0.12							723					2
No. 1																
LINCOLN COUNTY																
American Quasar Petroleum																
Adobe Federal 19-1	6,750-6,900			1.08							2,809	1.29	3-		40% vi, 40% in	3
	7,300-7,500			2.77							2,789	1.19	3-		75% amorphous	3
Texaco Inc.																
Federal No. 1	2,450-2,480	Mississippian											2.8		90% woody	5
	2,800-2,810	Mississippian											2.8		95% woody	5
NYE COUNTY																
Gulf Oil Corp.																
Duck Unit No. 1	5,270-5,530	Mississippian		2.53							1,099	0.76	2+		65% amorphous	3
	6,100-6,354	Mississippian		3.43							1,285	0.74	2+		80% amorphous	3
Gose "EU" Federal	4,070-4,270	Mississippian		1.49							470	0.67	2+		35% vitrinite	3
No. 1	5,490-5,690	Mississippian		1.69							397	0.89	2+		40% amorphous	3
Nevada "DK" Federal	6,990-7,180	Mississippian		3.80							4,929	0.48	2-		90% amorphous	3
No. 1	7,000-7,100	Chainman Fm.		5.8	2.98			30.00		0.10		0.47		493		8
	7,100-7,180	Chainman Fm.		5.1	3.29			24.93		0.13		0.47		490		8

APPENDIX 6.—Selected source-rock data from petroleum exploration wells in Nevada (continued)

Operator	Interval (ft)	Formation or age	Lithology	TOC (wt. %)	S ₁ (mg/g)	S ₂ (mg/g)	S ₃ (mg/g)	S ₁ +S ₂ (mg/g)	S ₂ /S ₁	$\frac{S_1}{S_1+S_2}$	C ₁₁₊ (ppm)	R ₀ (%)	TAI	T _{max} (°C)	Kerogen type	Source
NYE COUNTY (continued)																
Northwest Exploration Co.																
Bacon Flat Federal No. 2	6,590-6,700	Sheep Pass Fm.		1.6	0.36			1.98		0.18				486		8
	6,700-6,750	Sheep Pass Fm.		1.8	.16			1.35		0.12		1.01		487		8
	6,750-6,800	Sheep Pass Fm.		1.6	0.17			1.32		0.13		1.01		486		8
	6,800-6,890	Sheep Pass Fm.		1.7	0.18			1.38		0.13		1.19		488		8
Bacon Flat No. 5	5,800-5,850	Sheep Pass Fm.		3.0	0.89			14.36		0.06		0.66		491		8
	5,850-5,900	Sheep Pass Fm.		4.5	1.04			22.55		0.05		0.66		493		8
	5,900-5,950	Sheep Pass Fm.		4.2	1.12			21.37		0.05		0.66		489		8
	5,950-6,000	Sheep Pass Fm.		4.0	1.34			19.35		0.07		0.66		486		8
	6,000-6,050	Sheep Pass Fm.		3.6	1.26			18.89		0.07		0.66		486		8
	6,050-6,100	Sheep Pass Fm.		3.6	1.16			18.08		0.06		0.66		485		8
	6,100-6,150	Sheep Pass Fm.		3.4	0.97			17.35		0.06		0.97		484		8
	6,150-6,200	Sheep Pass Fm.		4.3	1.06			23.00		0.05		0.97		481		8
	6,200-6,250	Sheep Pass Fm.		6.5	1.67			31.86		0.05		0.97		482		8
	6,250-6,300	Sheep Pass Fm.		6.3	1.99			33.38		0.06		0.97		483		8
	6,300-6,350	Sheep Pass Fm.		2.6	0.66			7.87		0.08				481		8
Current No. 1	7,200-7,220	Sheep Pass Fm.											2.5		50% woody	5
White River Valley No. 1	7,900-7,920	Chainman Fm.											2.5		90% sapropel	5
	7,900-8,200			0.67							148	0.63	2		30% am, vi, in	3
	8,050-8,070	Chainman Fm.											2.5		40% woody	5
	8,350-8,370	Chainman Fm.											2.5		40% woody	5
	8,550-8,850			1.63							354	0.61	2		30% am, vi, in	3
	8,650-8,670	Chainman Fm.											2.5		60% woody	5
	9,000-9,020	Chainman Fm.											2.5		70% woody	5
	9,100-9,400			1.53							315	0.78	2+		30% am, vi, in	3
	9,340-9,360	Chainman Fm.											2.5		80% woody	5
	1,450-1,480												2.8(?)		98% sapropel	5
Overland Petroleum Co.																
Munson Ranch No. 31-1	3,750-3,800	Chainman Fm.	mudstone	2.73				9.12		0.04				436		4
Shell Oil Co.																
Eagle Springs No. 1-35	7,374-7,385			0.15							506	0.62(?)	2		60% exinite	3
	7,453-7,480			2.02											40% exinite	3
	7,487-7,488	Sheep Pass Fm.	dol.	0.43				1.15		0.05				430		4
	7,489-7,490	Sheep Pass Fm.	sts.	1.30				8.30		0.04				425		4
	8,659-8,666	Chainman Fm.	sts.	0.875				3.09		0.04				426		4
	8,875-8,885	Chainman Fm.	sts.	0.8				0.01		1.0				430		4
	9,001-9,010	Chainman Fm.	mudstone	1.81				1.09		0.11				430		4
	9,170-9,320			1.05							294	0.64	2		45% vitrinite	3
	9,215-9,225	Chainman Fm.	mudstone	1.23				0.49		0.08				436		4
	9,557-9,561	Chainman Fm.	ls.	0.065				0.00		0						4
	9,952-9,955	Chainman Fm.	siltite(?)	0.225				0.01		0						4
	10,040-10,165			4.20							2,211	0.75	2+		50% amorphous	3
Eagle Springs No. 2	10,120-10,126	Chainman Fm.		5.5	1.64			18.58		0.09				499		8
	10,121-10,126	Chainman Fm.	dol.	5.44				12.5		0.07				443		4
	10,171-10,177	Chainman Fm.		1.1	0.29			1.16		0.25				492		8
	10,177-10,183	Chainman Fm.		0.8	0.07			0.38		0.18		0.52		498		8
	10,178-10,183	Joana Ls.(?)	micritic ls.	0.2				0.40		0.17				432		4
	9,440-9,640			2.96							1,046				40% amorphous	3
	9,493-9,496	Chainman Fm.	argillite	8.7				31.0		0.03				440		4
	9,497-9,498	Chainman Fm.	argillite	4.225				15.2		0.05				437		4
	9,497-9,500	Chainman Fm.		3.1	0.72			10.60		0.07				491		8
	9,500-9,503	Chainman Fm.		4.6	1.29			15.29		0.08		1.00		486		8
	9,665-9,790			2.22							954	0.68	2		50% amorphous	3
	9,670-9,673	Chainman Fm.		1.4	0.38			4.49		0.08				490		8
Eagle Springs No. 35-35	9,673-9,676	Chainman Fm.		1.8	0.55			6.08		0.09		0.98		490		8
	9,673-9,679	Chainman Fm.	dol.	1.0				2.43		0.09				438		4
	9,676-9,679	Chainman Fm.		3.1	0.85			11.18		0.08				492		8
	9,836-9,840	Chainman Fm.	dol.	1.315				3.15		0.10				437		4
	9,836-9,840	Chainman Fm.		0.7	0.20			1.04		0.19				489		8
	6,808-6,809	Sheep Pass Fm.	mudstone	2.56				15.3		0.02				424		4
	6,810-6,815	Sheep Pass Fm.	ls.	3.18				17.7		0.04				418		4
	6,871-6,874	Sheep Pass Fm.	sts.	0.57				0.57		0.14				430		4
	6,888-6,891	Sheep Pass Fm.	mudstone	7.40				38.2		0.02				421		4
	6,941-6,956			1.58							1,111	0.64(?)	2		35% exinite	3
	7,012-7,013	Sheep Pass Fm.	sts.	0.69				0.71		0.30				435		4
	7,707-7,717	Chainman Fm.(?)		0.78							1,541					2
Eagle Springs No. 15-35																
Eagle Springs Unit No. 1-35	7,375-7,400	Sheep Pass Fm.		3.5	1.37			23.88		0.06		0.98		488		8
	7,400-7,450	Sheep Pass Fm.		2.7	0.19			20.00		0.01		0.98		490		8
	7,450-7,500	Sheep Pass Fm.		2.7	0.41			13.91		0.03				488		8
	7,500-7,550	Sheep Pass Fm.		6.4	0.67			36.96		0.02				489		8
	7,550-7,600	Sheep Pass Fm.		5.7	0.46			39.14		0.01				489		8
	7,600-7,650	Sheep Pass Fm.		3.5	0.43			21.96		0.02				489		8
	7,650-7,700	Sheep Pass Fm.		4.0	0.56			21.78		0.03				486		8
	7,700-7,750	Sheep Pass Fm.		3.6	0.49			20.34		0.02				488		8
	7,776-7,780	Sheep Pass Fm.		0.6	0.14			0.85		0.16				480		8
	8,950-9,100	Chainman Fm.		2.1	0.18			2.19		0.08				485		8
	9,001-9,011	Chainman Fm.		1.7	0.14			1.44		0.10				484		8
	9,100-9,200	Chainman Fm.		2.5	0.21			4.84		0.04				482		8
	9,200-9,300	Chainman Fm.		2.4	0.11			1.36		0.08				488		8
	9,215-9,225	Chainman Fm.		1.5	0.06			0.93		0.06				492		8
	9,300-9,400	Chainman Fm.		2.3	0.20			2.88		0.07		0.84		489		8

continued

APPENDIX 6.—Selected source-rock data from petroleum exploration wells in Nevada (continued)

Operator	Interval (ft)	Formation or age	Lithology	TOC (wt. %)	S ₁ (mg/g)	S ₂ (mg/g)	S ₃ (mg/g)	S ₁ +S ₂ (mg/g)	S ₂ /S ₃	$\frac{S_1}{S_1+S_2}$	C ₁₅ + (ppm)	R _p (%)	TAI	T _{max} (°C)	Kerogen type	Source
NYE COUNTY (continued)																
Shell Oil Co. (continued)																
Eagle Springs Unit No. 1-35	9,400-9,500	Chainman Fm.		2.4	0.16			2.02		0.08		0.82		493		8
	9,500-9,600	Chainman Fm.		2.1	0.14			2.13		0.07				489		8
	9,552-9,562	Chainman Fm.		0.2	0.01			0.17		0.06				508		8
	9,600-9,700	Chainman Fm.		1.7	0.12			1.80		0.07		0.87		490		8
	9,700-9,800	Chainman Fm.		1.9	0.12			1.55		0.08		0.87		493		8
	9,800-9,900	Chainman Fm.		2.5	0.18			2.57		0.07		0.83		491		8
	9,900-10,000	Chainman Fm.		2.0	0.15			1.96		0.08				484		8
Eagle Springs Unit No. 4	6,734-6,744	Chainman Fm.		1.5	0.05			0.73		0.07		1.02		494		8
	7,172-7,182	Chainman Fm.		1.4	0.03			0.21		0.14				530		8
Eagle Springs Unit No. 15-35	7,707-7,717	Sheep Pass Fm.		0.7	0.61			5.28		0.12		0.92		477		8
	7,982	Sheep Pass Fm.		1.1	0.85			5.34		0.12				481		8
	7,986	Sheep Pass Fm.		0.5	0.71			5.10		0.14				482		8
	7,998	Sheep Pass Fm.		1.6	1.10			9.25		0.12				483		8
Eagle Springs Unit No. 35-35	6,808-6,821	Sheep Pass Fm.		1.7	0.40			14.82		0.03				485		8
	6,871	Sheep Pass Fm.		3.0	1.72			23.19		0.07				483		8
	6,941-6,950	Sheep Pass Fm.		2.5	0.42			12.98		0.03				486		8
	7,020-7,032	Sheep Pass Fm.		0.9	0.09			0.68		0.13				483		8
	7,148-7,158	Chainman Fm.		1.2	0.41			3.78		0.11				475		8
	7,208-7,218	Chainman Fm.		0.6	0.36			2.39		0.15				478		8
	7,290-7,300	Chainman Fm.		4.7	0.81			27.54		0.03		0.74		477		8
	7,390-7,400	Chainman Fm.		4.6	0.68			22.88		0.03		0.71		479		8
	7,490-7,500	Chainman Fm.		4.3	1.29			21.91		0.06		0.98		484		8
Eagle Springs Unit No. 58-26	7,737-7,747	Sheep Pass Fm.		0.8	0.01			1.13		0.01		0.97		487		8
	7,747-7,767	Sheep Pass Fm.		3.2	0.17			19.21		0.01		0.97		495		8
	7,860-7,862	Sheep Pass Fm.		0.7	0.06			0.72		0.08				487		8
	8,290-8,300	Sheep Pass Fm.		0.8	0.03			0.33		0.09				486		8
Eagle Springs No. 1-35	7,374-7,385	Sheep Pass Fm.	ls.	0.15												2
	7,374-7,385	Sheep Pass Fm.	black sh.	6.02							506					2
	7,396-7,408	Sheep Pass Fm.	black sh.	0.85							3,730					2
	7,408-7,435	Sheep Pass Fm.	black sh.	0.79												2
	7,453-7,490	Sheep Pass Fm.	black sh.	2.02												2
	9,001-9,011	Chainman Sh.	black sh.	1.66							1,816	0.81	2		45% vitrinite	2
Eagle Springs No. 2	9,493-9,503	Chainman Sh.(?)	black sh.	5.83							4,212					2
	9,836-9,842	Chainman Sh.(?)	black sh.	0.49												2
Eagle Springs No. 35-35	6,808-6,821	Sheep Pass Fm.	black sh.	6.30							5,349				40% amorphous	2,3
	6,941-6,950	Sheep Pass Fm.	black sh.	1.58							1,111					2
	7,208-7,218	Ely Ls.	black ls.	0.36							1,305					2
Eagle Springs No. 58-26	7,737-7,747	Sheep Pass Fm.	black sh. or ls.	0.58							664				90% amorphous	2,3
Supron Energy Corp.																
Lease F-28-8-61 No. 1	2,870-2,910	ls.		0.25	0.02	0.08	1.39	0.10	0.06	0.20		0.76		433	woody	6
	2,950-3,000	ls.		0.25	0.01	0.01	0.51	0.02	0.02	0.50		0.80		302	woody	6
	3,050-3,100	ls.		0.31	0.01	0.07	1.59	0.08	0.04	0.13		0.71*		341	woody	6
	3,130-3,160	ls.		0.42	0.01	0.07	2.21	0.08	0.03	0.13		0.74		273	woody	6
	3,200-3,250	ls.		1.20	0.13	3.05	1.44	3.18	2.12	0.04		0.60		420	woody	6
	3,300-3,350	sh.		2.00	0.58	5.94	1.22	6.52	4.87	0.09		0.71*		422	woody	6
	3,400-3,450	sh.		1.35	0.11	1.22	0.93	1.33	1.31	0.08		0.68*		427	woody	6
	3,500-3,550	sh.		1.85	0.23	4.00	1.07	4.23	3.74	0.05		0.63*		427	woody	6
	3,600-3,650	sh.		1.11	0.08	0.69	0.90	0.77	0.77	0.10		0.78		431	woody	6
	3,700-3,750	Chainman Sh.	ss./sh.	0.51	0.03	0.41	1.31	0.44	0.31	0.07		0.77		434	woody	6
	3,800-3,850	Chainman Sh.	sh.	2.25	0.28	5.59	0.93	5.87	6.01	0.05		0.59		428	woody	6
	3,900-3,950	Chainman Sh.	sh.	1.42	0.11	1.45	0.91	1.56	1.59	0.07		0.81		431	woody	6
	4,000-4,050	Chainman Sh.	sh.	1.36	0.04	0.61	1.38	0.85	0.44	0.06		0.85		441	woody	6
	4,100-4,150	Chainman Sh.	sh.	1.27	0.07	0.59	0.83	0.66	0.71	0.11		1.01		440	woody	6
	4,200-4,230	Chainman Sh.	sh.	1.22	0.04	0.45	0.95	0.49	0.47	0.08		0.97		441	woody	6
WHITE PINE COUNTY																
American Hunter Exp.																
Black Jack Springs No. 1	1,850-1,860	Diamond Peak Fm.											2.5		70% woody	5
	2,190-2,200	Diamond Peak Fm.											2.5		60% woody	5
	2,740-2,760												2.5		85% sapropel	5
	3,400-3,420	Pilot Sh.(?)	sh. (?)										2.5		50% sapropel	5
American Quasar Petroleum																
Long Valley Federal 34-1	3,400-3,410	Chainman Sh.											2.5		70% woody	5
	3,630-3,650	Mississippian										0.76	2+		40% vitrinite	3
	4,430-4,400	Chainman Sh.											2.5		85% sapropel	5
	4,430-4,550	Mississippian		3.72							2,166				75% amorphous	3
	5,070-5,080	Pilot Sh.											2.5		98% sapropel	5
	5,630-5,640	Pilot Sh.											2.5		95% sapropel	5
	5,750-5,760	Pilot Sh.											2.5		90% sapropel	5
	5,910-5,920	Guilmette Ls.(?)	ls.(?)										2.5		90% sapropel	5
Dome Petroleum Corp.																
Grass Springs No. 1	3,380-3,520			0.10											40% am, 40% vi	3
Guadalupe Exploration Co.																
Long Valley No. 1	5,600-5,700	Chainman Sh.	black sh.	2.23							2,377	1.10	3-		35% vitrinite	2,3
	6,150-6,250	Chainman Sh.	black sh.	2.77							2,204	1.11	3-		75% amorphous	2,3
	6,780-6,880	Pilot Sh.	black sh.	1.25							1,326	1.37	3		55% amorphous	2,3
Gulf Oil Corp. of Calif.																
Nevada-Federal "A" No. 1	4,300-4,400			0.15							878	0.56	2		40% amorphous	3

APPENDIX 6.—Selected source-rock data from petroleum exploration wells in Nevada (continued)

Operator	Interval (ft)	Formation or age	Lithology	TOC (wt. %)	S ₁ (mg/g)	S ₂ (mg/g)	S ₃ (mg/g)	S ₁ +S ₂ (mg/g)	S ₂ /S ₃	$\frac{S_1}{S_1+S_2}$	C ₁₁ + (ppm)	R ₀ (%)	TAI	T _{max} (°C)	Kerogen type	Source
WHITE PINE COUNTY (continued)																
Northwest Exploration Co.																
Illipah No. 1	1,060-1,100		sh.	1.25	0.10	0.30	1.46	0.40	0.21	0.25		0.66		440	woody	6
	1,110-1,150		sh.	1.54	0.11	0.93	1.71	1.04	0.54	0.11		0.68		435	amorphous	6
	1,280-1,320		sh.	2.77	0.24	9.77	0.88	10.01	11.10	0.02		0.75		433	amorphous	6
	130-170		sh.	1.16	0.03	0.22	1.12	0.25	0.20	0.12		0.81*		400	woody	6
	1,330-1,370		sh.	2.09	0.17	3.50	1.35	3.67	2.59	0.05		0.85		436	amorphous	6
	1,380-1,430		sh.	2.42	0.22	4.81	1.25	5.03	3.85	0.04		0.87		432	amorphous	6
	1,460-1,500		sh.	1.30	0.09	0.72	0.60	0.81	1.20	0.11		0.90*		439	woody	6
	1,560-1,600		sh.	1.15	0.15	0.77	0.82	0.92	0.94	0.16		0.88*		438	woody	6
	1,610-1,650		sh.	1.58	0.09	0.61	1.11	0.70	0.55	0.13		0.83		434	woody	6
	1,660-1,700		sh./ls.	1.35	0.08	1.03	0.59	1.11	1.75	0.07		0.77		435	amorphous	6
	1,710-1,750		sh.	3.10	0.33	8.18	1.21	8.51	6.76	0.04		0.75		433	amorphous	6
	1,810-1,850		sh.	2.20	0.22	6.03	0.66	6.25	9.14	0.04		0.82		437	amorphous	6
	1,910-1,960		sh.	2.47	0.27	8.31	0.69	8.58	12.04	0.03		0.83*		435	amorphous	6
	200-240		sh.	0.92	0.03	0.28	1.16	0.31	0.24	0.10		0.64		443	woody	6
	2,110-2,150		sh.	4.61	0.59	21.07	0.86	21.66	24.50	0.03		0.70*		439	amorphous	6
	2,230-2,270		sh.	6.88	0.73	39.47	1.00	40.20	39.47	0.02		0.79*		440	amorphous	6
	360-400		sh.	1.87	0.05	1.14	1.07	1.19	1.07	0.04		0.68		438	woody	6
	410-450		sh.	1.31	0.04	0.52	0.95	0.56	0.55	0.07		0.68		444	woody	6
	460-500		ss./sh.	1.23	0.05	0.54	1.21	0.59	0.45	0.08		0.67*		442	woody	6
	510-550		sh.	1.07	0.06	0.30	0.56	0.36	0.54	0.17		0.64		453	woody	6
	570-620		sh.	1.13	0.06	0.24	0.93	0.30	0.26	0.20		0.71*		407	woody	6
	640-690		sh.	1.35	0.08	0.51	1.33	0.59	0.38	0.14		0.73		443	woody	6
	690-740		sh.	1.48	0.07	0.49	1.37	0.56	0.36	0.13		0.69		445	woody	6
	760-800		sh.	1.27	0.08	0.44	1.02	0.52	0.43	0.15		0.56		442	woody	6
	80-120		sh.	1.20	0.04	0.21	2.16	0.25	0.10	0.16		n.d.		442	Woody	6
	860-900		sh.	1.06	0.06	0.26	0.80	0.32	0.33	0.19		0.65		437	woody	6
	960-1,000		sh.	1.12	0.06	0.26	0.84	0.32	0.31	0.19		0.71		441	woody	6
Jake's Wash No. 5A	2,300-2,310												2.5		70% woody	5
	2,650-2,670												2.5		65% woody	5
	3,140-3,160												2.5		65% woody	5
	3,350-3,380												2.5		70% woody	5
	3,590-3,610												2.5		60% woody	5
	4,170-4,200												2.5		75% sapropel	5
	2,300-2,700			0.87							285				35% vitrinite	3
	3,100-3,700			1.11							224	0.75	2+		40% inertinite	3
Standard Oil Co. of Calif.	3,900-4,200			2.44							1,279	0.84	2+		65% amorphous	3
County Line Unit No. 1	3,864-3,881	Sheep Pass Fm.	gray sh.	2.99							8,389	0.69	2		30% vi, 30% in	2
	3,881-3,906	Sheep Pass Fm.	gray sh.	0.52												2
	3,950-3,953	Sheep Pass Fm.	gray sh.?									0.72	2		35% amorphous	2,3
	4,070-4,080	Sheep Pass Fm.	oil-stained ls.	1.96							5,491				45% vitrinite	2,3
Standard-Conoco																
Hayden Creek Unit No. 1	1,100-1,500			1.70							413	0.69	2		35% vitrinite	3
	1,535-1,552	Diamond Peak Fm.	black sh.	1.43												2
	1,940-1,951	Diamond Peak Fm.	black sh.	1.14							725					2
	2,500-2,800											0.87	2+		40% vitrinite	3
	2,680-2,690	Chainman Sh.	black sh.	1.79							1,163					2
	3,124-3,132	Chainman Sh.	black sh.	4.56							2,819					2
	3,500-3,750			1.30							533	0.89	2+		30% am, vi, in	3
	3,804-3,814	Chainman Sh.	black sh.	0.39							834					2
	3,882-3,897	Chainman Sh.	black sh.	0.35												2
	4,282-4,288	Pilot Sh.	black sh.	1.19							1,458					2
	5,112-5,117	Nevada Fm.	black ls.	0.17							431					2
	1,200-1,700			1.06							557	0.64	2		45% amorphous	3
	2,200-2,500			0.62							400	0.71	2		45% amorphous	3
Meridian Unit No. 1	3,200-3,600			0.86							717				70% amorphous	3
	43-700			2.95							1,194	0.55	2		60% amorphous	3
	10,910-10,950		ls.	0.38	0.02	0.01	0.41	0.03	0.02	0.67		1.71		437	inertinite	6
	11,000-11,050		sh.	0.77	0.03	0.15	1.14	0.18	0.13	0.17		1.74		433	inertinite	6
	11,038-11,046	Diamond Peak Fm.	qtz.													2
Summit Springs Unit No. 1	11,100-11,150		sh.	0.78	0.03	0.10	1.02	0.13	0.10	0.23		1.75		430	inertinite	6
	11,190-11,220		sh.	1.15	0.04	0.10	0.88	0.14	0.11	0.29		1.72		435	inertinite	6
	11,300-11,316	Diamond Peak Fm.	black ls.	0.36							341	1.58	3-		45% inertinite	2
	11,300-11,350		sh.	1.28	0.03	0.12	1.08	0.15	0.11	0.20		1.77		428	inertinite	6
	11,400-11,450		sh.	1.14	0.04	0.06	1.01	0.10	0.06	0.40		1.83		363	inertinite	6
	11,536-11,543	Diamond Peak Fm.	black sh.	1.03							331	1.67	3-		45% inertinite	2
	8,152-8,162	Early Permian	black ls.	1.37							1,701					2
Suntide Petroleum, Inc.																
Nevada Fed. "A" No. 1	1,400-1,600			0.14							1,074					3
	2,000-2,200			0.03							270					3
	2,670-2,800			0.10							279	1.687	3		75% inertinite	3
Tannehill Oil Co.																
Federal N6509 No. 2	1,956-2,150			0.61							158	1.03	3-		40% inertinite	3
	2,840-3,003			0.84							126	1.02	3-		40% inertinite	3
Tenneco Oil Co.																
GB Core Hole No. 2	300-350	Mississippian		0.91							199	1.17	3-		55% vitrinite	3
	60-110	Mississippian		0.69							309	1.14	3-		60% vitrinite	3
GB Core Hole No. 3	410-470			0.65							222	1.20	3-		50% vitrinite	3
	570-640			0.99							672	1.21	3-		45% amorphous	3
	840-950			0.45							422	1.25	3-		50% vitrinite	3

continued

APPENDIX 6.—Selected source-rock data from petroleum exploration wells in Nevada (continued)

Operator	Interval (ft)	Formation or age	Lithology	TOC (wt. %)	S ₁ (mg/g)	S ₂ (mg/g)	S ₃ (mg/g)	S ₁ +S ₂ (mg/g)	S ₂ /S ₃	$\frac{S_1}{S_1+S_2}$	C ₁₀₊ (ppm)	R _p (%)	TAI	T _{max} (°C)	Kerogen type	Source
WHITE PINE COUNTY (continued)																
Tenneco Oil Co. (continued)																
GB Core Hole No. 6	40-80			3.93							1,174	0.52	2		50% vitrinite	3
	500-550			1.49							362	0.57	2		50% vitrinite	3
	870-920			1.11							297	0.66	2		45% vitrinite	3
GB Core Hole No. 9	1,000-1,050			4.74							2,024	0.68	2		45% amorphous	3
	1,200-1,234			0.97							233	0.76	2+		50% vitrinite	3
	870-900			0.70							227	0.66	2		45% vitrinite	3
	500-680	Mississippian		5.14							2,380	0.55	2		85% amorphous	3
Texas American Oil Corp.																
Jake's Wash Unit No. 2A	2,040-2,050	Chainman Fm.	sh.	4.01	0.39	8.48	0.68	8.87	12.47	0.04				445		7

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ABBREVIATIONS

LOGS

BHCS	Borehole compensated sonic
Cal	Caliper
CBL	Cement bond log
CN	Compensated neutron
CNL	Compensated neutron log
Com/Pro	Computer-processed log
DI	Dual induction log
DIL	Dual induction laterolog
DLL	Dual laterolog
DM	Dipmeter
ES	Electric log
EP	Electromagnetic propagation
FDC	Compensated formation density
FDL	Formation density log
FIL	Fracture identification/indication log
GR	Gamma ray
IES	Induction electric log
LL	Laterolog
LSS	Long spaced sonic
ML	Microlog/minilog
MLL	Microlaterolog
N	Neutron
PL	Proximity log
PML	Proximity microlog
S	Sonic/acoustilog
SNP	Sidewall neutron porosity log
SP	Spontaneous potential
TS	Temperature survey
VDL	Variable density log

STATUS

D & A	Drilled and abandoned
J & A	Junked and abandoned
P & A	Plugged and abandoned
TA	Temporarily abandoned

FORMATION

<i>Formal</i>	<i>Informal</i>	
Cgl.	cgl.	Conglomerate
Dol.	dol.	Dolomite
Fm.	fm.	Formation
Gp.	gp.	Group
Ls.	ls.	Limestone
Mbr.	mbr.	Member
Qtz.	qtz.	Quartzite
Sh.	sh.	Shale
Ss.	ss.	Sandstone
Sts.	sts.	Siltstone
Volc.	volc.	Volcanics

OTHER

API	American Petroleum Institute
bbl.	Barrels (42 gallons)
BOPD	Barrels of oil per day
BWPD	Barrels of water per day
BWPH	Barrels of water per hour
BWPM	Barrels of water per minute
DF	Derrick floor
DST	Drill stem test
GPM	Gallons per minute
KB	Kelly bushing
MCF	Thousand cubic feet
NBMG	Nevada Bureau of Mines and Geology
PI	Petroleum Information
PSI	Pounds per square inch
PT	Production test
TD	Total depth



CHURCHILL COUNTY

CH1 FALLON UNIV. CO. No. 1 1865¹

CH2 FALLON POWER CO. No. 1 1540¹

CH3 FALLON OR. & S. CO. No. 1 1921 1337¹

CH4 FALLON OR. & S. CO. No. 2 1921 1337¹

CH5 FALLON OR. & S. CO. No. 3 1921 1337¹

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CH85 HART, W. M. No. 75 1923 205¹

CH86 HART, W. M. No. 76 1923 205¹

CH87 HART, W. M. No. 77 1923 205¹

CH88 HART, W. M. No. 78 1923 205¹

CH89 HART, W. M. No. 79 1923 205¹

CH90 HART, W. M. No. 80 1923 205¹

CH91 HART, W. M. No. 81 1923 205¹

CH92 HART, W. M. No. 82 1923 205¹

CH93 HART, W. M. No. 83 1923 205¹

CH94 HART, W. M. No. 84 1923 205¹

CH95 HART, W. M. No. 85 1923 205¹

CH96 HART, W. M. No. 86 1923 205¹

CH97 HART, W. M. No. 87 1923 205¹

CH98 HART, W. M. No. 88 1923 205¹

CH99 HART, W. M. No. 89 1923 205¹

CH100 HART, W. M. No. 90 1923 205¹

CH101 HART, W. M. No. 91 1923 205¹

CH102 HART, W. M. No. 92 1923 205¹

CH103 HART, W. M. No. 93 1923 205¹

CH104 HART, W. M. No. 94 1923 205¹

CH105 HART, W. M. No. 95 1923 205¹

CH106 HART, W. M. No. 96 1923 205¹

CH107 HART, W. M. No. 97 1923 205¹

CH108 HART, W. M. No. 98 1923 205¹

CH109 HART, W. M. No. 99 1923 205¹

CH110 HART, W. M. No. 100 1923 205¹

CH111 HART, W. M. No. 101 1923 205¹

CH112 HART, W. M. No. 102 1923 205¹

CH113 HART, W. M. No. 103 1923 205¹

CH114 HART, W. M. No. 104 1923 205¹

CH115 HART, W. M. No. 105 1923 205¹

CH116 HART, W. M. No. 106 1923 205^{1</}

[illegible][illegible]

ESMERALDA COUNTY

EST. CALIFORNIA EXCELSIOR CO. McNett Ranch No. 1 (1928) 498"
EST. FISH LAKE MERGER OIL CO. No. 1 (1923) 1,447"
EST. FISH LAKE OIL CO. Coalfield Well (1925) 5,218"
131. MONTE CRISTO OIL CO. Wm. Wright No. 1 (1971) 4,776"
146. NEVADA OIL & MINERALS, INC. V.R.S. No. 1 (1970) 9,178"
238. WRIGHT EXPLORATION Federal No. 26-1 (1979) 5,666"

[illegible]

HUMBOLDT COUNTY
 HU1. WESTERN PACIFIC RAILROAD CO. Sulphur M.P. 474.67 (1909) 970'
 HU2. BLACK ROCK OIL, GAS, REFINING & DEVELOPMENT CO. No. 1 (1921) 800'
 268. HUMBOLDT ASSOCIATES Ellison No. 1 (1980) 988'
 287. SUN EXPLORATION & PRODUCTION CO. King Lear Federal No. 1-17 (1983) 7,931'
 383. HUMBOLDT ASSOCIATES Ellison No. 2 (1984) 1,020'

LANDER COUNTY

LA1. NEWMAN, CARL Austin No. 1 355'
LA2. VOORHEES, JESS H. No. 6 S (1946) 448'
LA3. VOORHEES, JESS H. No. 5 S (1946) 143'
LA4. VOORHEES, JESS H. No. 4 S (1946) 329'

LA5. VOORHEES, JESS H. No. 3 S (1946) 639'
LA6. VOORHEES, JESS H. No. 2 S (1946) 412'
LA7. VOORHEES, JESS H. No. 1 S (1946) 326'
LA8. VOORHEES, JESS H. No. 1 Fee Wall (1946) 912'
LA9. VOORHEES, JESS H. No. 2 Fee Wall (1947) 540'
LA10. NEVADA OIL & GAS CO. Government No.
26. BLALACK DRILLING CO. Voorhees No. 1 (1958) 3,456'
36. MID-CENTRAL DRILLING CO. Dwellr. No. 1 (1957) 3,187'
159. CHEVRON OIL CO. ATHA GENE No. 1-13 (1974) 6,583'
407. ARCO OIL & GAS CO. 1958 (1958) 4,600'
411. PHILLIPS PETROLIUM CO. Stepanovich Creek Fodori A No. 1,35 (1984) 5,600'

76. PEASE, WILLIAM L. *Oilwell*. Vol. 4. Houston, TX. 11 (1969) 7,254
79. AMOCO PRODUCTION CO. *Neveda Federal*. CM No. 1. (1968) 4,254
80. GULF OIL CORP. *Cal. Yellow Jacket Unit*. Vol. 1. (1968) 7,254
138. TENNECO OIL CO. *GB Core Hole No. 13*. (1970) 485
155. TEXACO, INC. *Federal No. 1*. (1972) 7,937
270. AMERICAN QUASAR PETROLEUM CO. *OF NEW MEXICO Adobe Federal No. 19*. (1971) 7,706
421. AMOCO PRODUCTION CO. *Dutch John Unit No. 1*. (1985) 12,750
422. BRECKENRIDGE ENERGY, INC. *Shogin Federal No. 1*. (1985) 9,178
450. FLETCHER, C. H. *Fletcher No. 1*. (1986) 7,401
470. AMOCO PRODUCTION CO. *Garden Valley Unit No. 1*. (1986) 6,401

LY2. NEVADA COAL & OIL CO. (1920)

[illegible][illegible][illegible]