

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

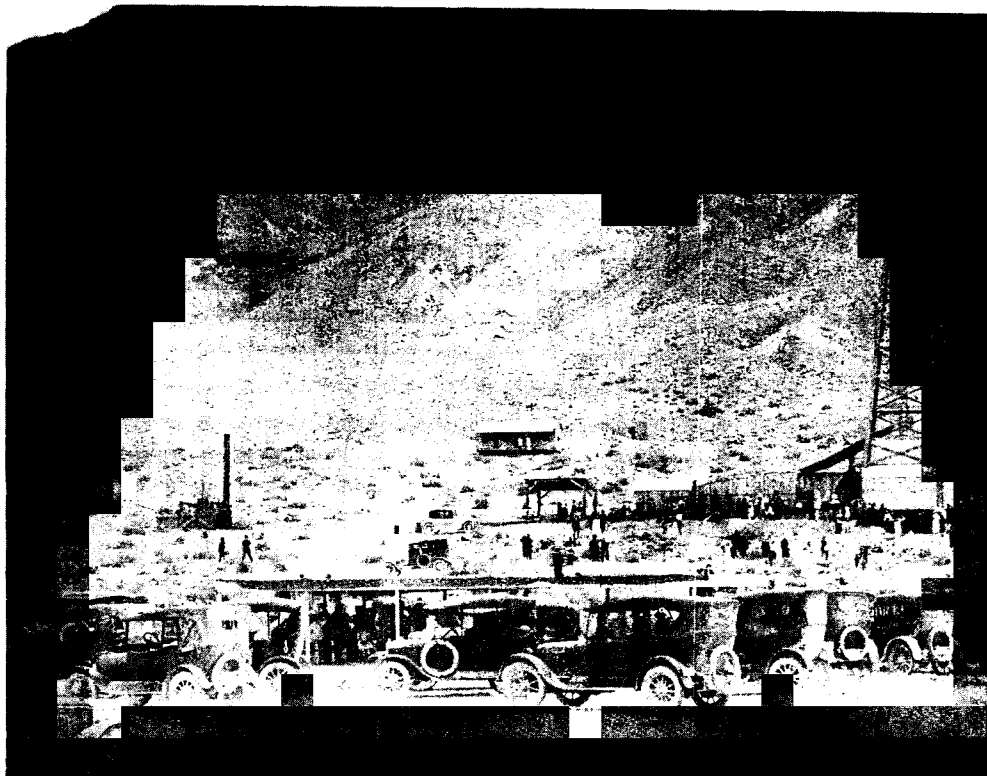


FIGURE 8.—Oil exploration in Nye County during the 1920's; exact location unknown. Nevada Historical Society photo.

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

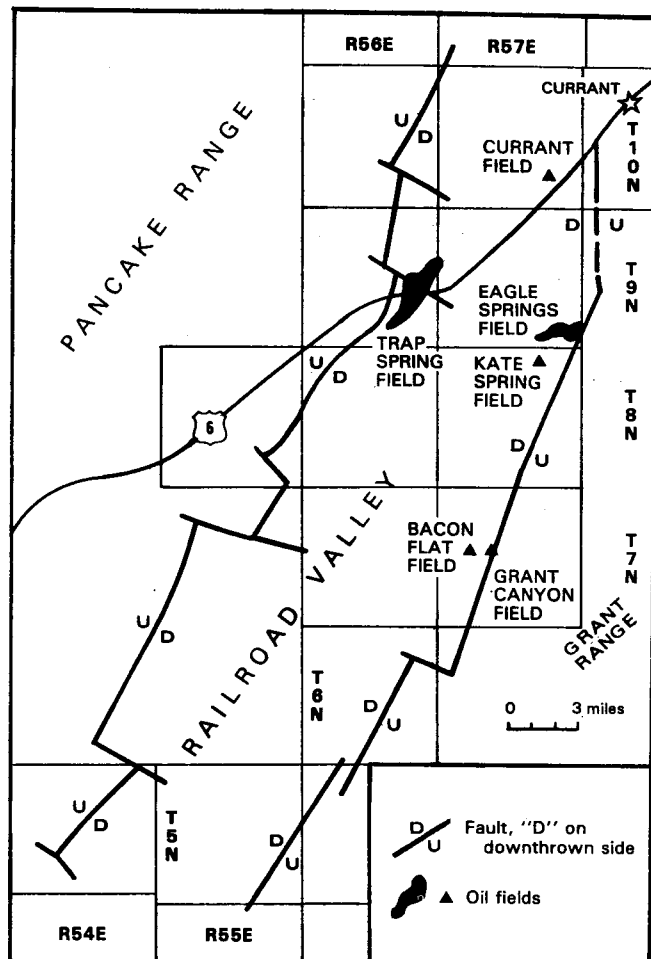


FIGURE 9.—Major normal faults in Railroad Valley (after Duey, 1983d, fig. 2).

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
 E $\frac{1}{2}$ NW $\frac{1}{4}$ 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

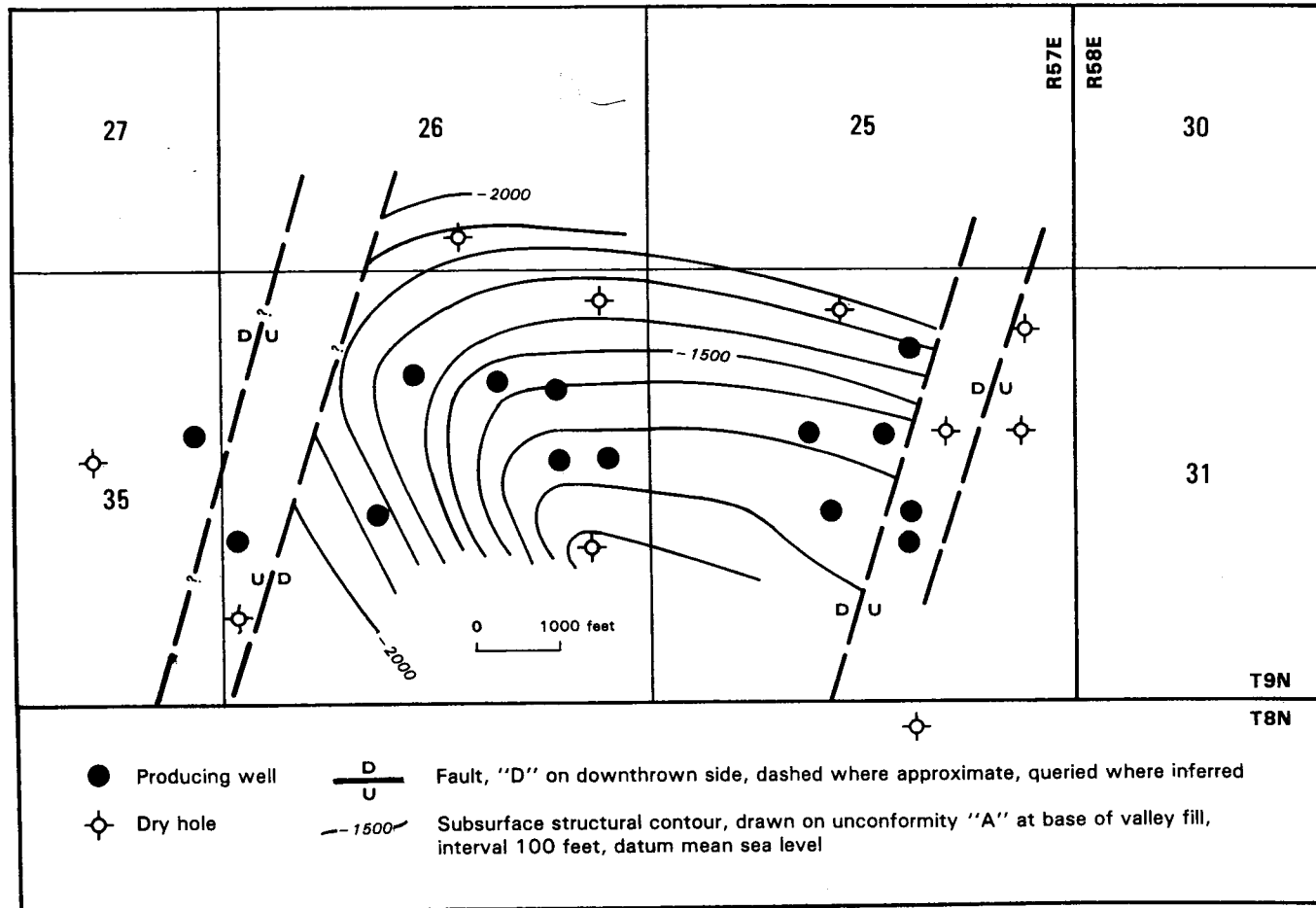


FIGURE 10.—Structural contour map of the Eagle Springs field (from Bortz and Murray, 1979, fig. 6).

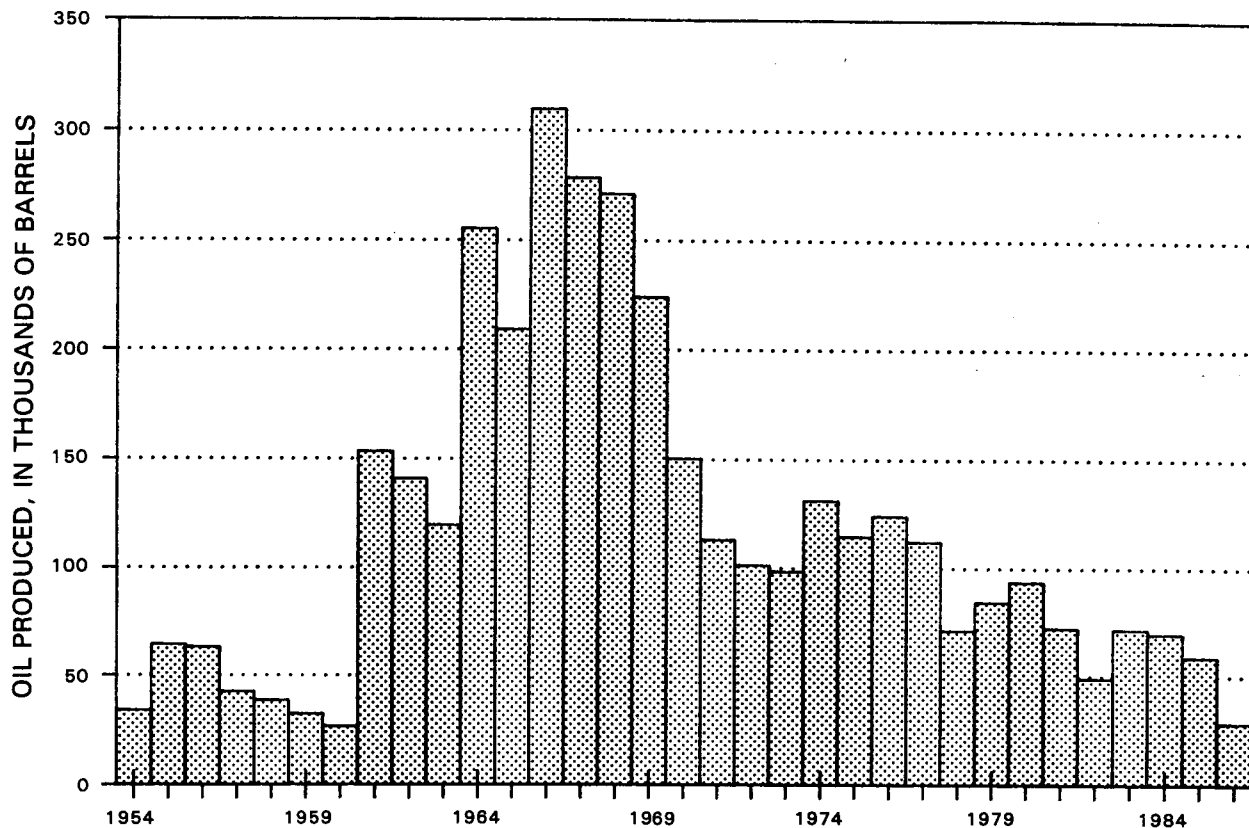


FIGURE 11.—Oil production of the Eagle Springs field.

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 Currant 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

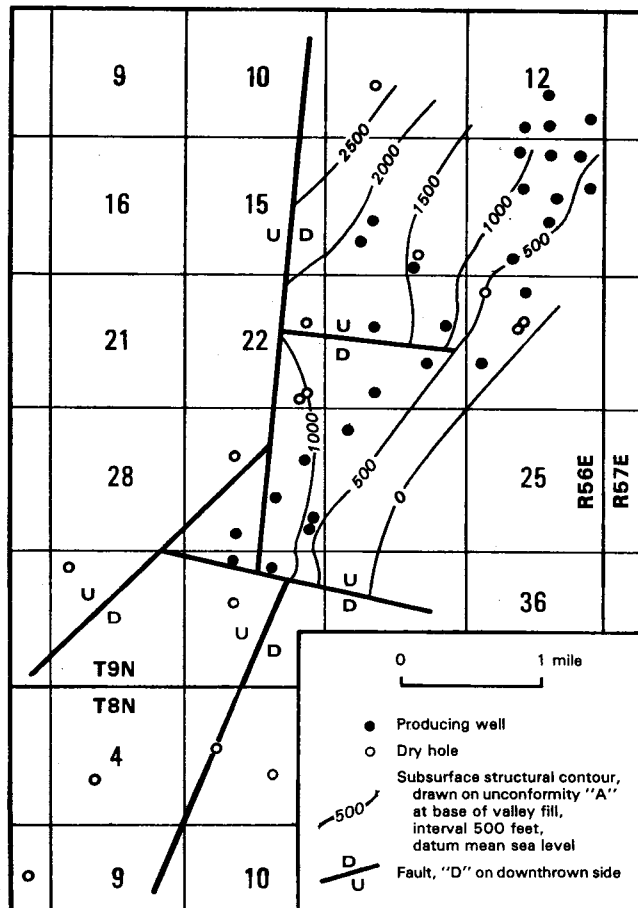


FIGURE 12.—Structural contour map of the Trap Spring field (modified from Duey, 1983c, fig. 8).

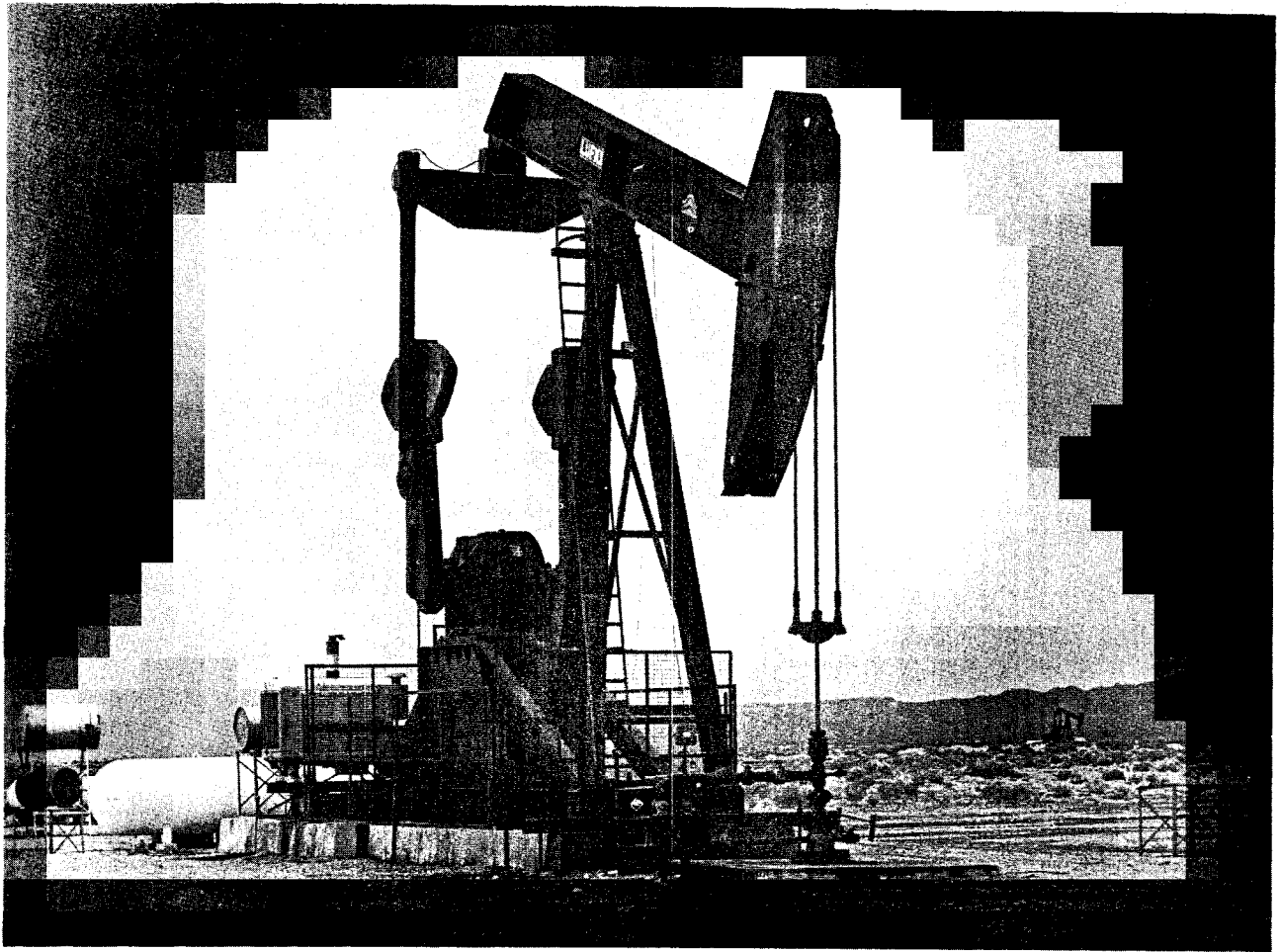


FIGURE 13.—Pumping unit in operation at a Northwest Exploration Co. well in the Trap Springs oil field, Nye County.
Laurie Engle photo.

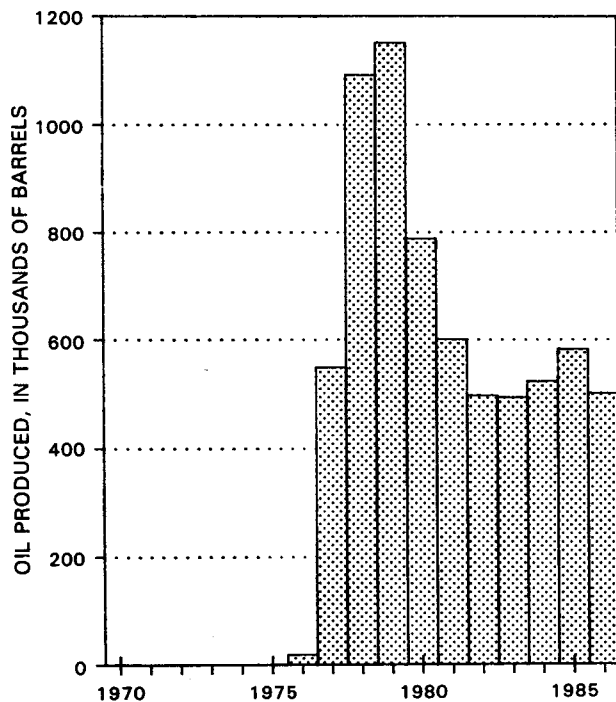


FIGURE 14.—Oil production of the Trap Spring field.

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
 SW¼SW¼ 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: 0
 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

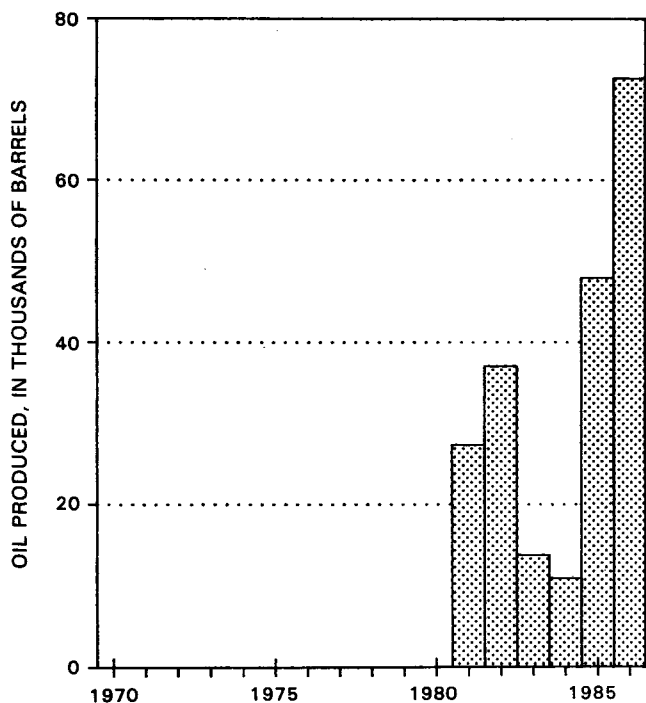


FIGURE 15.—Oil production of the Bacon Flat field.

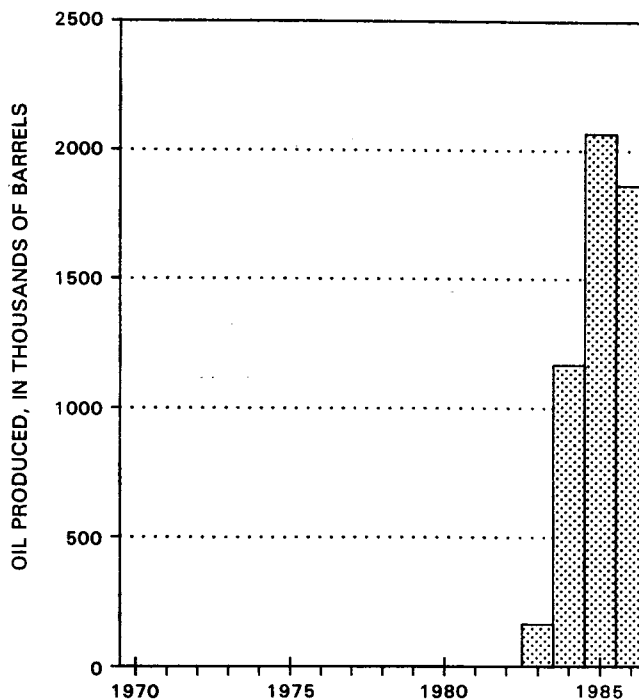


FIGURE 16.—Oil production of the Grant Canyon field.

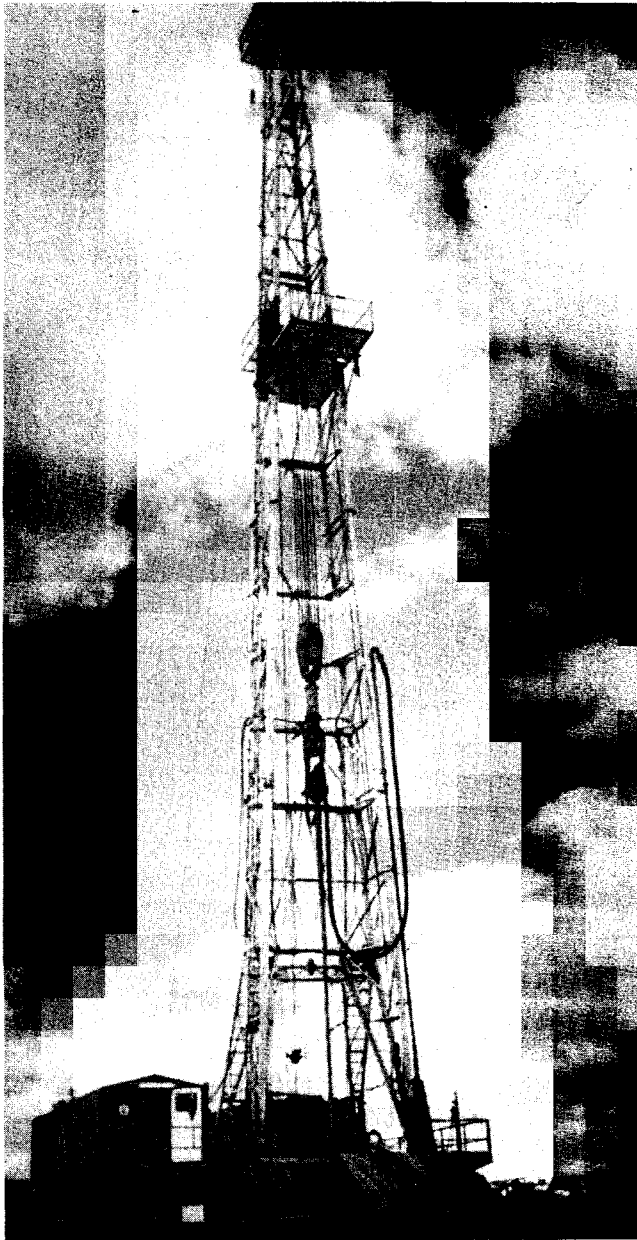


FIGURE 17.—Mapco Oil and Gas Co. drilling rig at the Grant Canyon field in 1984. Scott McDaniel photo.

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
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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
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Remarks: Gas shows at 8,890-8,892 ft, 8,900-8902 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
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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
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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: SW¼NW¼ 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, NE¼SW¼ 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: 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: 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: NW¼SW¼ 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, SE¼SW¼ 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, SW¼SW¼ 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 $\frac{1}{4}$ SE $\frac{1}{4}$ 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, NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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: E $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ 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, SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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, SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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: SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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, SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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
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)
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

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
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
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: SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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: SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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: NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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: SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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, SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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

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

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

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

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 Window 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: NE $\frac{1}{4}$ SE $\frac{1}{4}$ 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, SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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, NW $\frac{1}{4}$ SE $\frac{1}{4}$ 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, W $\frac{1}{2}$ SW $\frac{1}{4}$ 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 BWPD. 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, SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 1/4 SE 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

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 1/4 SW 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

MARATHON OIL CO.

Silver Spring No. 1

API no.: 27-023-05384

Permit no.: 476

Location: NE 1/4 NW 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

MARATHON OIL CO.

Soda Springs Unit No. 1

API no.: 27-023-05324

Permit no.: 366

Location: center, SW 1/4 SE 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

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 1/4 NE 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, NW 1/4 NW 1/4 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, SW 1/4 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, NW 1/4 SE 1/4 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: S 1/2 SE 1/4 NW 1/4 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

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: SW 1/4 SE 1/4 SW 1/4 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

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

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

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

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

NORTHWEST EXPLORATION CO.

Trap Spring No. 1

API no.: 27-023-05220

Permit no.: 180

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ 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
4,178 ft (Horse Camp Fm.)
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

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 $\frac{1}{4}$ SW $\frac{1}{4}$ 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 $\frac{1}{4}$ NW $\frac{1}{4}$ 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 $\frac{1}{4}$ NW $\frac{1}{4}$ 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 $\frac{1}{4}$ SW $\frac{1}{4}$ 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 $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ 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

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, SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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

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, SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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

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: S $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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

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, SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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

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, SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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
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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 ¼ NE ¼ SW ¼ 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
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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 ¼ SW ¼ 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
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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 ¼ NE ¼ NW ¼ 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
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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 ¼ 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
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NORTHWEST EXPLORATION CO.**White River Valley No. 6**

API no.: 27-023-05300

Permit no.: 308

Location: center, NW ¼ 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
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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 ¼ SE ¼ 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

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

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

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

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

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

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)

Logs:
 Lithologic 0-800 ft
 Resistivity 662-790 ft
 GR 0-790 ft

Samples:
 Cuttings 0-500 ft

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

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 $\frac{1}{4}$ SE $\frac{1}{4}$ 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	Tertiary detrital tuff
4,055 ft	Tertiary volcanic ash tuff
4,433 ft	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: SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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: SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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, NE $\frac{1}{4}$ SE $\frac{1}{4}$ 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: SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ 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, NW $\frac{1}{4}$ SW $\frac{1}{4}$ 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: NW $\frac{1}{4}$ SW $\frac{1}{4}$ 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

DI/GR

0-4,470 ft

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, SW 1/4 NE 1/4 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

Samples:

Cuttings 70-4,272 ft

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: NW 1/4 NE 1/4 NE 1/4 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

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: NW 1/4 SE 1/4 SW 1/4 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: 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: 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: W 1/2 SW 1/4 NE 1/4 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, W 1/2 SW 1/4 NE 1/4 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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