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Witness #3

Parker & Parsley Development L. P.

Proposed Lusk West Delaware Waterflood

Volume I of II

**Engineering/Geological and Unit Recommendation
Discussion**

January 6, 1997

Lusk Area Team:

Geology: Larry Brooks

Land: Steve Owen

Operations Engineering: Britt Hirth

Reservoir Engineering: Gregory Pace

NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development L.P.
EXHIBIT 18
Case Nos. 11,703 and 11,704
Date of Hearing - February 6, 1997

Parker & Parsley Development L. P.
proposed Lusk West Delaware Waterflood Project
Volume I (Unit Recommendation & Engineering/Geological Discussion)
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Parker & Parsley Development L. P.
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Parker & Parsley Development L. P.
Proposed Lusk West (Delaware) Waterflood

Conclusion

- 1) Secondary recovery in the Lusk West (Delaware) Waterflood would be profitable based on current corporate economic guidelines
- 2) Initiation of secondary (waterflood) project will add substantial production capacity, incremental reserves and cash flow to the project.
- 3) The waterflood project could add 1,345 MBBLS of incremental oil and 2,012 MMCF of incremental gas reserves.
- 4) The project will take approximately 1.75 years (21 months) to fill up and an additional 1.5 years (18 months) to peak production.

Recommendation

- 1) Parker & Parsley Development L. P. recommends that the Lusk West (Delaware) be unitized immediately to improve efficiency and economy via waterflooding operations.
- 2) The Waterflood will be based on an 80-acre 5-spot pattern.
- 3) That Parker & Parsley Development L. P. be designated as operator of the Lusk West Waterflood.
- 4) Unit boundary and participation as defined on Exhibit A thru D

Summary

The Lusk West (Delaware) field produces by depletion gas drive mechanism from the Delaware sandstone formation of Permian age. The average depth of production is at about 6,400'. The field was discovered in 1986 by Texaco's New Mexico State CR #1. The discovery was made after a recompletion from the Strawn formation. Production was first realized from well work and production log analysis of a hole in the casing at about 4,600'. The well was completed for an initial production rate of 71 BOPD. Estimated original oil in place is 10.4 million stock tank barrels of oil based on volumetric analysis. Primary recovery based on production performance is approximately 21.0% of the original oil in place. Table 1 highlights specific economic & investment criteria:

Table 1

	<u>Primary+Secondary</u>	<u>Secondary</u>	<u>Primary</u>
Rate of Return (%) :	37.9	28.7	NA
Disc. ROI (\$/\$) :	3.120	2.529	NA
Payout (years) :	4.4	4.9	NA
PW10% (M\$) :	7,372.4	5,318.6	2,053.8
Lifting Cost (\$/BOE) :	4.43	3.72	7.24
Dev. Cost (\$/BOE) :	2.12	2.68	NA
Life: (years) :	22.8	9.4	22.8
Capital (M\$) :	3,590.7	3,590.7	0.0

Introduction

The Lusk West Delaware field is located in Lea County, New Mexico in TWN 19S RGE 32E. As of April 30, 1996 there were 31 (seven inactive) wells producing approximately 9,441 BBLs/Mo, 16,950 MCF/Mo and 13,480 BW/Mo. The field's current producing gas-oil ratio is at 1,795 SCF/BBL as of April 1996. Cumulative production as of April 1996 for the field is 2,106.3 MBBLS, 4,367.3 MMCF and 1,789.8 MBW. Production comes mainly from the 6400' zone in the Delaware Brushy Canyon. There are several other Delaware Brushy Canyon zones including the 4900' sand, 5500' sand, 6650' sand, 7050' sand and the 7200' sand. These zones have contributed about 587 MBBLS & 1,029.2 MMCF. The proposal is to only Waterflood the 6400' sand interval. The wells that contributed to the 6400' zone have produced about 1,519 MBBLS, 3,338.1 MMCF and 1,281 MBW.

Geological summary

The 6400' zone is a deep marine turbidite fan system that runs primarily north-south along the slope break. The sandstone body varies in thickness from zero to 35+ feet (Figure 1). The sand averages about 22 feet thick. A mineralogic and Petrographic analysis was performed by Western Atlas's Core Laboratories on the Damson Oil Corp. Southern California Federal #7 (Figure 2). The following are the results of their analysis.

The sandstone is described as a subarkosic feldspathic sandstone that is fairly well sorted, ranges from very angular to rounded, is mature in texture, is random in grain orientation and has point, floating, straight, concavo-convex grain contacts. The sandstone is primarily composed of monocrystalline quartz, potassium feldspar, dolomite rock fragments, plagioclase and polycrystalline quartz. There is no rock matrix present. The cement is common to abundant, is finely disseminated with fine crystalline dolomite and patches of anhydrite. There is an abundance of intergranular pores, uncommon grain-moldic pores, rare intergranular and very small pores associated with dolomite rock fragments and dolomite cements. No authigenic clays are present, there is no evidence of sedimentary structures, the pore network is very well interconnected and fractures are not present.

The 6400' Delaware sand exhibits both stratigraphic and structural trapping mechanisms and characteristics. The Lusk West field trends structurally down dip in the easterly direction. (Figure 3). There are two visible structural high's setting up a nose in which the thickest portion of the sand body is present. There appears to be an oil-water contact at approximately -2,900' on the down dip side. The up dip extent of field is delineated by sandstone fans that thins in a westerly direction to zero. (Figure 1). These fans appear separated by a tight clay rich margin that trends SE to NW across the southern half of Sec 20.

Basic Reservoir Data

The Lusk West (Delaware) field's pressure has declined dramatically. Wells completed has exhibited a steep decline in production capacity over the first two to three years of the field's production. Initial field GOR was about 548 SCF/BBL, currently, the field's GOR is at 1,630 SCF/BBL.

Fluid properties

A reservoir fluid study was run by Western Atlas's Core Laboratories on Phillips Petroleum Co.'s Lusk Deep Unit A #17 (Figure 4). Some of the basic fluid properties are as follows:

Original Bubble Point Pressure:	1,103 PSIG
Original Bottom Hole Pressure:	2,250 PSIG @ 6,467' on July 23, 1988
Current Bottom Hole Pressure:	1,849 PSIG @ 6,467' on July 10, 1990
Original temperature:	113° F
Formation Volume Factor:	1.17 reservoir BBLS/STB
Initial Solution Gas-Oil Ratio:	849 SCF/STB
Oil Viscosity @ Saturation Pressure:	0.818 CP.

Core Data

Two wells had cores samples attained. The Damson Oil Corp.'s Southern California Federal #7 had a 42' core (6395-6437') successfully removed for analysis. (Figure 5) The Damson Oil Corp.'s Southern California Federal #8 had 24 sidewall (4655-4658', 4808-4818', 6447-6464') core samples successfully removed for analysis. (Figure 6). Data for the two wells is shown below:

	<u>SCF #7</u>	<u>SCF #8</u>
Depth intervals:	6395-6437'	6447-6464'
Represented thickness:	13.0	17.0
Porosity % (avg.)	16.8	21.7
" (min.)	8.2	21.9
" (max.)	21.5	27.4
" storage capacity Φ -Ft.	219.0	368.9
Permeability, MD. (avg.)	77.2	196.3
" (min.)	0.0	145.0
" (max.)	203.0	278.0
" (median)	64.0	227.5
" flow capacity MD.-ft.	1003.2	3337.1
Saturation % (avg.)		
Oil	12.2	11.8
Water	53.0	54.9
Heterogeneity factors		
Dykstra-Parsons Var.	0.540	NA
Lorenz Coefficient	0.340	NA

Special Core Study

Water-oil relative permeability data was determined from Western Atlas's Core lab's analysis of the Damson Oil Corp. Southern California Federal #7. (Figure 7) The Waterflood performance curve is shown in Figure 8.

Compatibility and Water sources:

A water compatibility study was performed within the framework of the Special Core Analysis study by Western Atlas's Core Lab. The study was done to evaluate three samples. Those samples include the Delaware formation water, Carlsbad water and Conoco's Maljamar plant water. Mixtures of 25/75, 50/50 and 75/25 were made of the Delaware and Carlsbad waters and also of the Delaware and Maljamar plant waters. All mixtures except the 25% Delaware/75% Carlsbad mixture were incompatible. Iron in the Delaware water may contribute to the formation of calcium carbonate precipitate. It is recommended that inhibitors be included in the water prior to injection.

The current water production volume contributes only 20 to 25% of required water injection volume needed for the total project. Four cases were evaluated to identify the best alternative when considering available volume and associated cost. The four cases are as follows:

On Site Water supply (Base Case):

Parker & Parsley has secured sufficient water for injection via the recompletion of the Yates formation in the Lusk Deep Unit A #7 well. This well indicates sufficient water production capacity to supply a majority of our water injection needs. Yates water would be compatible under a standard chemical treatment program. In addition, current water produced from the "Unit wells" could be utilized.

Laguna Gatuna SWD Line (Additional supply Option):

The SWD line described as the "Aqueduct Line" (Laguna Gatuna Salt Water Disposal System located in the NW/4 Sec 18, T20S R33E of Lea Co.) could be used if additional water supplies are needed. An agreement between Parker & Parsley and Pronghorn Management could be made should additional water be needed. The line serves many operators including Parker & Parsley. The line is currently owned by Pronghorn SWD Co. Hobbs, NM and currently is transporting 1200 BWPD to the Pronghorn SWD #1 located in Sec 24 T19S R32E. The Operations group indicated that minimal cost would be associated with utilizing the line for transfer of water to Parker & Parsley Development L. P.'s facility.

Low volume Produced Water Makeup (Alternate Case):

Construct a Salt Water gathering system to utilize offset operator producers' water within a six to 8-mile radius of the Lusk West field. The highest volume of water production is within T19S R33E with volumes in the area of 3,200 BWPD produced from the Yates and Delaware formations. Estimated cost to construct a low pressure salt water gathering system is approximately 200 M\$.

Maljamar Connection (Alternative Case):

The Conoco MCA unit is probably a candidate to purchase surplus makeup water although it is more distant than the other options. Construction cost would involve distribution line and transfer pump station. Water purchase cost could be less than the shallow water source. Estimated cost to access the produced water could be in the 500 to 600 M\$ range.

Shallow Water Aquifers (Alternate Case):

The Ogallala is a prolific shallow water aquifer. The nearest known location is the Maljamar area, located approximately 12 to 15 miles to the north of the Lusk area. The Ogallala is the principal source for most of the waterfloods in the area, most notable the Conoco MCA Unit project. Connection to the source would require securing the rights through outright water right purchase or through contract purchase of an existing water system (est. at \$0.10 to \$0.15/bbl). Investment cost for either case would involve the construction of a 12-mile distribution line, transfer-pump station and the drilling of a couple of water wells. Estimated capital cost is about 800 M\$.

No other viable shallow water aquifers within the area of interest are known to exist at this time. Deeper Delaware zones below the current 6400' zone are not expected to be viable source candidates. Several wells within the area were tested, but insufficient volume capacity was encountered. However, there are several shallow Delaware zones that could offer a low cost solution to fulfilling the Lusk West (6400' Delaware) sand's proposed waterflood injection requirements.

Oil in Place

The original oil in place value was calculated at 10.4 million stock tank barrels. Volumetric analysis was based on logs from each well when available. Table 2 provides a summary of each well's calculated original oil in place (col. e) which is based on an estimate of each well's porosity (col. r), net pay (col. q), area of drainage (col. t) and water saturation (col. s).

Performance Prediction

Primary

The expected ultimate primary recovery of the proposed Lusk West Delaware Waterflood is 2,180 MBBLs and 4,303 MMCF or 21.0% of original oil in place. This was based on production performance analysis based on more than 9.5 years of production history. The remaining 8/8 reserves as of July 1, 1996 is 583 MBO and 675 MMCF (Graph 1).

Secondary

The Old Indian Draw Unit appears to have similar reservoir and fluid characteristics as to the proposed Lusk West 6400' Delaware waterflood. The Old Indian Draw Unit exhibits average porosity of 17%, average water saturation of 43%, average pay of 14 feet, covered 880 acres and had an initial reservoir pressure of 1,540 PSIG. The Old Indian Draw Unit's well logs have similar characteristics as the wells in the Lusk West Delaware field. I am therefore using Amoco's Old Indian Draw Unit as an analogy for Parker & Parsley's proposed 6400' waterflood. The Old Indian Draw Unit is located in T22S R28E in Eddy county. This field is approximately 26 miles to the southeast of the proposed Lusk West 6400' Delaware waterflood. The Old Indian Draw Unit produces from the Delaware Bell Canyon formation at about 3,270'. The waterflood has been in existence since 1983. The Old Indian Draw Unit exhibits a secondary to primary ratio of 0.704 : 1.0. Secondary to Primary calculation was based on my production performance analysis shown on graph 2. However, for this analysis, a 0.5 : 1.0 secondary to primary ratio was used to be conservative. Similarities of the two projects are shown figure 9 and recovery calculations are shown in figure 10

In addition, a Dysktra-Parson engineering analysis was performed on the reservoir data from Damson Oil Corp.'s Southern California Federal #7. This analysis (Graph 3) and (Figure 11) was generated to compare my estimated total (primary + secondary) recovery factor, estimated fill up time and time for peak production response.

Economic Analysis

Total Project

The remaining 8/8 reserves as of Dec. 31, 1996 is 1,716 MBO and 2,421 MMCF. Estimated cash flow after production taxes, operating cost and capital cost to the unit's interest is 15,787 M\$ and 7,372 M\$ PW10%. (Figure 12 and Graph 4).

Primary

The remaining 8/8 reserves as of Dec. 31 1996 are 369 MBO and 405 MMCF. Estimated cash flow after production taxes, operating cost and capital cost to the unit's interest is 3,182 M\$ and 2.054 M\$ PW10% value (Figure 13 and Graph 1).

Secondary

Secondary reserve's operations should recover an estimated 1,347 MBBLS and 2,015 MMCF of reserves. This represents an incremental recovery of 10.5%. Estimated cash flow after production taxes, operating cost and capital cost the unit's interest is 12,605 M\$ and 5,319 M\$ PW10%. (Figure 14 and Graph 5).

Economic parameters

The following is a list of the parameters used for the project analysis.

Oil Price \$/bbl:	18.00
Gas Price \$/MCF:	1.15
Oil Severance rate %:	7.08
Gas Severance rate %:	8.18
Ad Valorem rate %:	0.00
Operating Cost \$/months	
Producing well:	1,600
Injector well:	1,800
Plant:	4,000
Capital Requirements (M\$):	3,590.682
Workovers	
producers:	39.000
injectors:	45.644
Drilling (M\$)	
producers:	439.265
injector:	419.500
Plant Facility (M\$)	525.591

Recommend Unit Boundary

Exhibit A identifies the recommended unit boundary. It also identifies proposed injection conversions, drilling locations and recompletions to the Delaware and surrounding well's current and historical completions.

Participation parameters

The participation parameters are based on the recommended unit boundary as outlined on Exhibit A. The attached schedules (Exhibit B thru D) outline the working, net, royalty and mineral ownership before and after unitization. The schedule also identifies ownership at a well, tract and unit level.

Witness #3

Parker & Parsley Development L. P.

Proposed Lusk West Delaware Waterflood

Volume II of II

**Engineering/Geological and Unit Recommendation
Discussion Tables, Graphs, Figures & Exhibits**

January 6, 1997

Lusk Area Team:

Geology:

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Land:

Steve Owen

Operations Engineering:

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Reservoir Engineering:

Gregory Pace

NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development L.P.
EXHIBIT 19
Case Nos. 11,703 and 11,704
Date of Hearing - February 6, 1997

**Parker & Parsley's Petroleum Company's
proposed Lusk West Delaware Waterflood projects
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**Parker & Parsley's Petroleum Company's
proposed Lusk West Delaware Waterflood Project
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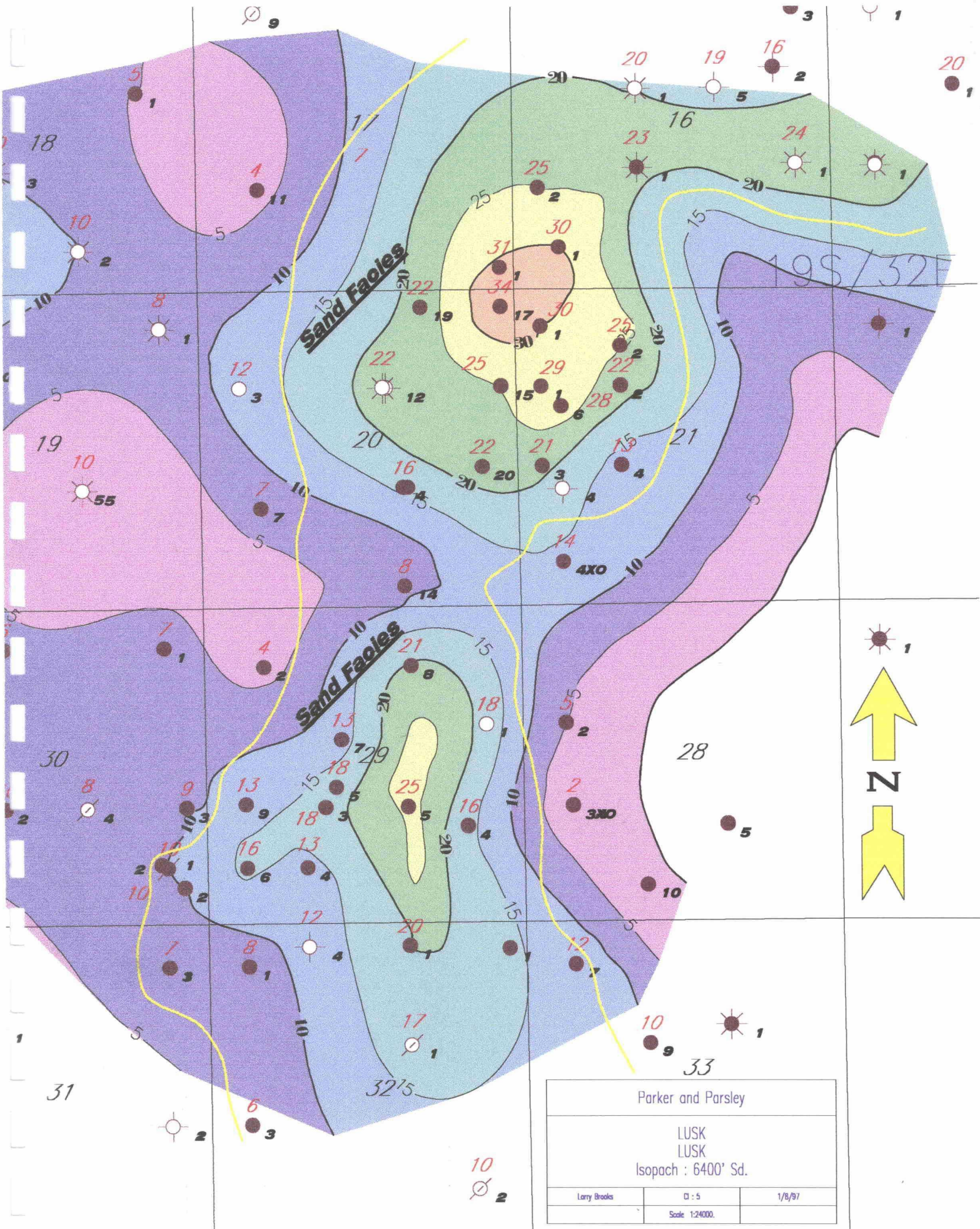


Figure 1

6400' DAVIS

DAWSON OIL CORPORATION
SOUTHERN CALIFORNIA FEDERAL #7 WELL
CORED 6395'-6437' (42')

MINERALOG ANALYSIS (weight %)

CORE LABORATORIES
FILE: 189052

DEPTH	GRAIN DENS. INDEX	QUARTZ	PLAGIOCLASE	K-FELDSPAR	CALCITE	DOLOMITE	PYRITE	ANHYDRITE	BARITE	KAOLINITE	CHLORITE	ILL+SMECT
6427.0	2.65	64	0	13	0	7	0	1	0	0	0	7
6429.5	2.65	69	0	16	0	11	0	0	0	0	0	4
6431.0	2.65	70	0	14	0	10	0	0	0	0	0	6
6432.5	2.65	67	0	16	0	11	0	0	0	0	0	6
6433.0	2.65	70	0	14	0	11	0	0	0	0	0	5
6435.3	2.66	65	5	13	0	13	0	0	0	0	0	4
6436.2	2.64	70	4	15	0	6	0	0	0	0	0	5
Avg		68	2	15	0	10	0	0	0	0	0	5

Mineralog & Petrographic Analysis
Figure 2

PETROPHYSICAL DATA				DATA SOURCE	
DATA TYPE	MAXIMUM	MINIMUM	AVERAGE	Core	Analysis
Porosity	21.5%	8.2%	18.6%		
PERMEABILITY	203md	30md	98md		
NET PAN INITIAL WATER SATURATION			8.6'	WGS	Analysis
			50%		"



6430 6440 6

QUANTITATIVE X-RAY DIFFRACTION ANALYSES

Depth (Feet)	6427.9
--------------	--------

CLAY MINERALS.	1.6
----------------	-----

RELATIVE CLAY ABUNDANCE (Normalized to 100)

ILLITE	77.4
KAOLINITE	5.1
FE-CHLORITE	17.5
	<hr/>
	100.0

THIN SECTION ANALYSES: GENERAL DESCRIPTION

Sample Depth (Feet):	6427.9
General Rock Type:	Feldspathic sandstone
Classification (Rock Name)	
Folk (1980):	Subarkose
Pettijohn et al. (1972):	Subarkose
Grain Size	
Minimum:	0.029mm (medium silt)
Maximum:	0.840mm (upper coarse sand)
Average:	0.115mm (upper very fine sand)
Sorting:	Good
Grain Angularity:	Very angular to rounded; average is subrounded
Textural Maturity (Folk, 1980):	Mature
Grain Orientation:	Random
Grain Contacts:	Point > floating >> straight > concavo-convex
Framework-Grain Mineralogy:	Monocrystalline quartz, potassium feldspar, dolomite rock fragments, plagioclase, polycrystalline quartz
Matrix:	Not present
Cements:	Common to abundant, finely disseminated, finely crystalline dolomite; heterogeneously distributed patches of anhydrite
Pore Types:	Abundant intergranular pores; uncommon grain-moldic pores; rare intragranular pores (within slightly dissolved feldspars); some very small pores associated with dolomite rock fragments & among dolomite cements
Authigenic Clays:	Not present
Sedimentary Structures:	Not evident (massive appearance)
Pore Network:	Very well interconnected
Fractures:	Not present

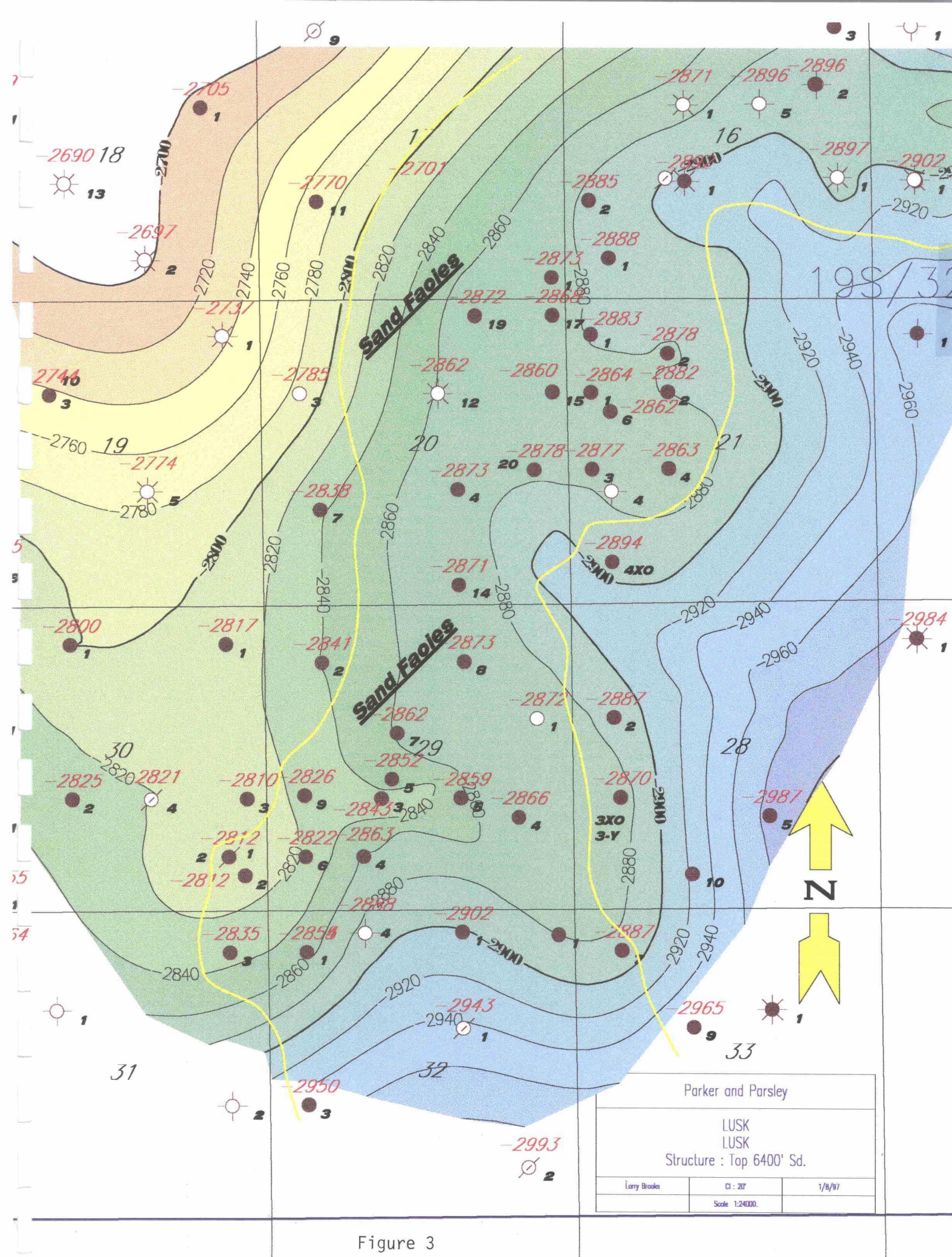


Figure 3



CORE LABORATORIES

File RFLM 90056

PHILLIPS PETROLEUM COMPANY
Lusk Deep Unit "A" #17

Date Sampled: July 10, 1990
Lea County, New Mexico

FORMATION CHARACTERISTICS

Formation Name	Delaware-Brushy Canyon
Date First Well Completed	July 23, 1988
Original Reservoir Pressure	2250 psig @ 6467 ft.
Original Produced Gas/Liquid Ratio	849 SCF/Bbl
Production Rate	86 Bbls/Day
Separator Pressure and Temperature	60 psig 100°F.
Liquid Gravity at 60°F.	42.5°API
Datum	2895 ft. Subsea

WELL CHARACTERISTICS

Elevation	3591 ft.
Total Depth	7224 ft.
Producing Interval	6476-6484 ft.
Tubing Size and Depth	2 7/8 In. to N/A ft.
Open Flow Potential	N/A MMSCF/Day
Last Reservoir Pressure	1849 psig @ 6467 ft.
Date	June 15, 1990
Reservoir Temperature	119°F. @ 7224 ft.
Status of Well	Pumping
Pressure Gauge	N/A

SAMPLING CONDITIONS

Flowing Tubing Pressure	170 psig
Flowing Bottom Hole Pressure	N/A psig
Primary Separator Pressure	66 psig
Primary Separator Temperature	74°F.
Secondary Separator Pressure	N/A psig
Secondary Separator Temperature	N/A°F.
Field Stock Tank Liquid Gravity	39.8°API @ 60°F.
Primary Separator Gas Production Rate	214.596 MSCF/Day
Pressure Base	14.65 psia
Temperature Base	60°F.
Compressibility Factor (Fpv)	1.000
Gas Gravity (Laboratory)	0.790
Gas Gravity Factor (Fg)	1.125
Stock Tank Liquid Production Rate @ 80°F.	67.73 Bbls/Day
Primary Separator Gas/Stock Tank	
Liquid Ratio	3168 SCF/Bbl

Sampled by Tefteller Inc.

REMARKS: Reservoir Temperature adjusted to producing interval is 113°F.

Figure 4

File RFLM 90056
Lusk Deep Unit "A" #17

HYDROCARBON ANALYSIS OF FIELD SEPARATOR GAS SAMPLE

<u>Component</u>	<u>Mol Percent</u>	<u>GPM</u>
Hydrogen	0.00	
Hydrogen Sulfide	0.00	
Carbon Dioxide	0.04	
Nitrogen	9.47	
Methane	68.02	
Ethane	10.92	2.979
Propane	7.20	2.024
iso-Butane	0.91	0.304
n-Butane	1.96	0.630
iso-Pentane	0.52	0.194
n-Pentane	0.42	0.155
Hexanes	0.27	0.107
Heptanes	0.20	0.086
Octanes	0.06	0.028
Nonanes	0.01	0.005
Decanes	0.00	0.000
Undecanes	0.00	0.000
	<u>100.00</u>	<u>6.512</u>

Calculated Gas Gravity = 0.790

Calculated Gross Heating Value = 1246 BTU per cubic foot of dry gas at 15.025 and 60°F.

Collected at 66 psig and 80°F.

File RFLM 90056
Lusk Deep Unit "A" #17

SUMMARY OF RESERVOIR FLUID PVT DATA

Volumetric Data

Bubble point pressure (Pb) at 113°F. = 1103 psig

Thermal expansion of reservoir fluid at
5000 psig = $\frac{V \text{ at } 113^{\circ}\text{F.}}{V \text{ at } 68^{\circ}\text{F.}} = 1.00700$

Compressibility of reservoir fluid at 113°F.
from 2000 psig to 1500 psig = 8.45×10^{-6} V/V/psi
from 1500 psig to 1103 psig = 8.55×10^{-6} V/V/psi

Differential Vaporization Data

Solution gas/oil ratio at 1103 psig and 113°F. = 322 standard cubic feet of gas at 15.025 psia and 60°F. per barrel of residual oil at 60°F.

Relative oil volume at 1103 psig and 113°F. = 1.170 barrels of oil per barrel of residual oil at 60°F.

Density of reservoir fluid at 1103 psig and 113°F. = 0.7606 gm/cc

Viscosity Data

Viscosity of reservoir fluid at 1103 psig and 113°F. = 0.91 centipoise

Separator Test Data

<u>Separator Conditions</u>	<u>Bo(1)</u>	<u>Rs(2)</u>	<u>Tank Oil Gravity API at 60°F.</u>
66 psig and 63°F. to 0 psig and 63°F.	1.146	305	42.7

- (1) Formation volume factor, barrels of oil at 1103 psig and 113°F. per barrel of stock tank oil at 60°F.
- (2) Total solution gas/oil ratio at 1103 psig and 113°F., total standard cubic feet of gas at 15.025 psia and 60°F. per barrel of stock tank oil at 60°F.

CORE LABORATORIES

Company : DAMSON OIL CORPORATION
Well : SOUTHERN CALIFORNIA FEDERAL #7

Field : WEST LUSK DELAWARE FIELD
Formation : DELAWARE SAND
File No.: 57181-15562
Date : 4-11-88

SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA

ZONE: Identification ----- DELAWARE SAND
Top Depth ----- 6395.0 ft
Bottom Depth ----- 6460.0 ft
Number of Samples ----- 13

DATA TYPE:
Porosity ----- (HELIUM)
Permeability ----- (MAXIMUM) Kair

CUTOFFS:
Porosity (Minimum) ----- 0.0 %
Porosity (Maximum) ----- 100.0 %
Permeability (Minimum) --- 0.0000 md
Permeability (Maximum) --- 100000. md
Water Saturation (Maximum) 100.0 %
Oil Saturation (Minimum) - 0.0 %
Grain Density (Minimum) -- 2.00 gm/cc
Grain Density (Maximum) -- 3.00 gm/cc
Lithology Excluded ----- NONE

CHARACTERISTICS REMAINING AFTER CUTOFFS

ZONE: Number of Samples ----- 13
Thickness Represented - 13.0 ft

POROSITY:
Storage Capacity ----- 219.0 ϕ -ft
Arithmetic Average ----- 16.8 %
Minimum ----- 8.2 %
Maximum ----- 21.5 %
Median ----- 17.5 %
Standard Deviation ----- ± 4.0 %

PERMEABILITY:
Flow Capacity ----- 1003.2 md-ft
Arithmetic Average ----- 77.2 md
Geometric Average ----- 24.8 md
Harmonic Average ----- 0.01 md
Minimum ----- 0.00 md
Maximum ----- 203. md
Median ----- 64.0 md
Standard Dev. (Geom) -- K-10 ± 1.400 md

HETEROGENEITY (Permeability):

Dykstra-Parsons Var. -- 0.540
Lorenz Coefficient ---- 0.340

AVERAGE SATURATIONS (Pore Volume):

Oil ----- 12.2 %
Water ----- 53.0 %

CORE LABORATORIES

Company : DAMSON OIL CORPORATION
 Well : SOUTHERN CALIFORNIA FEDERAL #7
 Location : 2260' FWL & 2210' FNL, SEC. 29, T-19-S, R-32-E Coring Fluid : CUT BRINE
 Co,State : LEA COUNTY, NEW MEXICO

Field : WEST LUSK DELAWARE FIELD
 Formation : DELAWARE SAND
 Elevation : 3556' GL

File No.: 57181-15562
 Date : 4-11-88
 API No.:
 Analysts: OLSON

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
		(MAXIMUM) K _{air} md	(90 DEG) K _{air} md		(PORE VOLUME) OIL %	WATER %		

CORE NO. 1 6395-6437 CUT 42' REC 42'

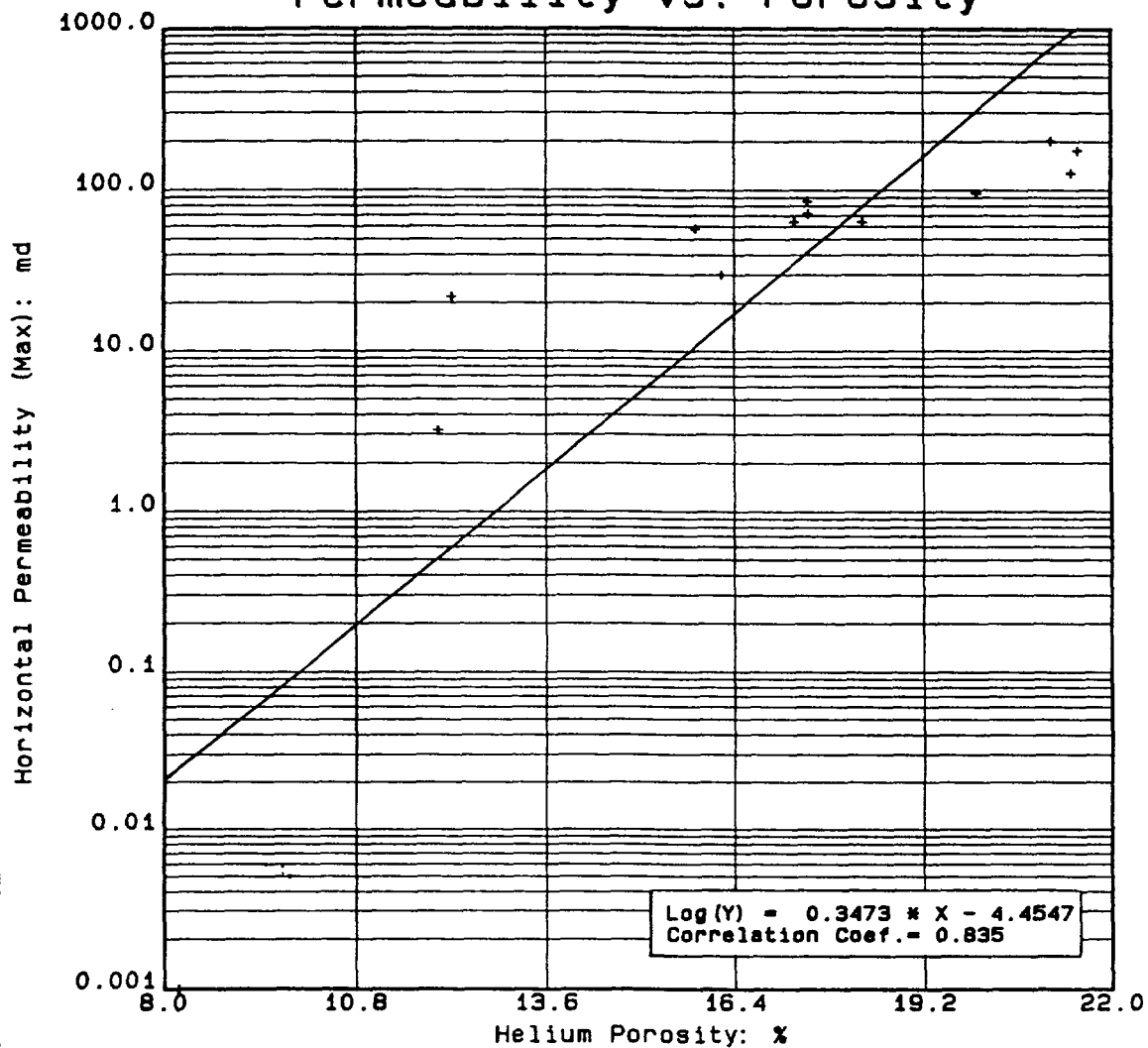
1	6395.0-00.0	<.01	<.01	8.2	0.0	92.5	2.67	NA Sd shy slty sh lam
2	6400.0-01.0	3.20	1.20	12.0	0.0	86.3	2.66	Sd shy slty sh lam
3	6401.0-08.0	22.0	21.0	12.2	0.0	87.8	2.67	NA Sd shy slty sh lam
4	6408.0-09.0	177.	163.	21.5	15.7	44.7	2.64	Sd shy slty sh lam
5	6409.0-18.0	96.0	88.0	20.0	13.9	45.3	2.64	NA Sd shy slty sh lam
6	6418.0-19.0	30.0	30.0	16.2	15.0	44.9	2.67	Sd shy slty sh lam
7	6419.0-27.0	64.0	62.0	17.3	13.1	46.1	2.67	NA Sd shy slty sh lam
8	6427.0-28.0	86.0	77.0	17.5	13.2	50.8	2.65	Sd shy slty sh lam
9	6428.0-29.0	58.0	57.0	15.8	13.4	50.9	2.66	NA Sd shy slty sh lam
10	6429.0-30.0	72.0	70.0	17.5	15.8	49.5	2.65	Sd shy slty sh lam
11	6430.0-31.0	203.	200.	21.1	13.1	45.9	2.66	NA Sd shy slty sh lam
12	6431.0-32.0	64.0	60.0	18.3	16.4	39.0	2.65	Sd shy slty sh lam
13	6432.0-33.0	128.	127.	21.4	13.9	52.2	2.66	NA Sd shy slty sh lam

CORE NO. 2 6437-6460 CUT 23' REC 1'

6437.0-38.0
 6438.0-60.0

NA Sd v shy sh lam
 Lost core

Permeability vs. Porosity



DAMSON OIL CORPORATION
SOUTHERN CALIFORNIA FEDERAL #7
WEST LUSK DELAWARE FIELD

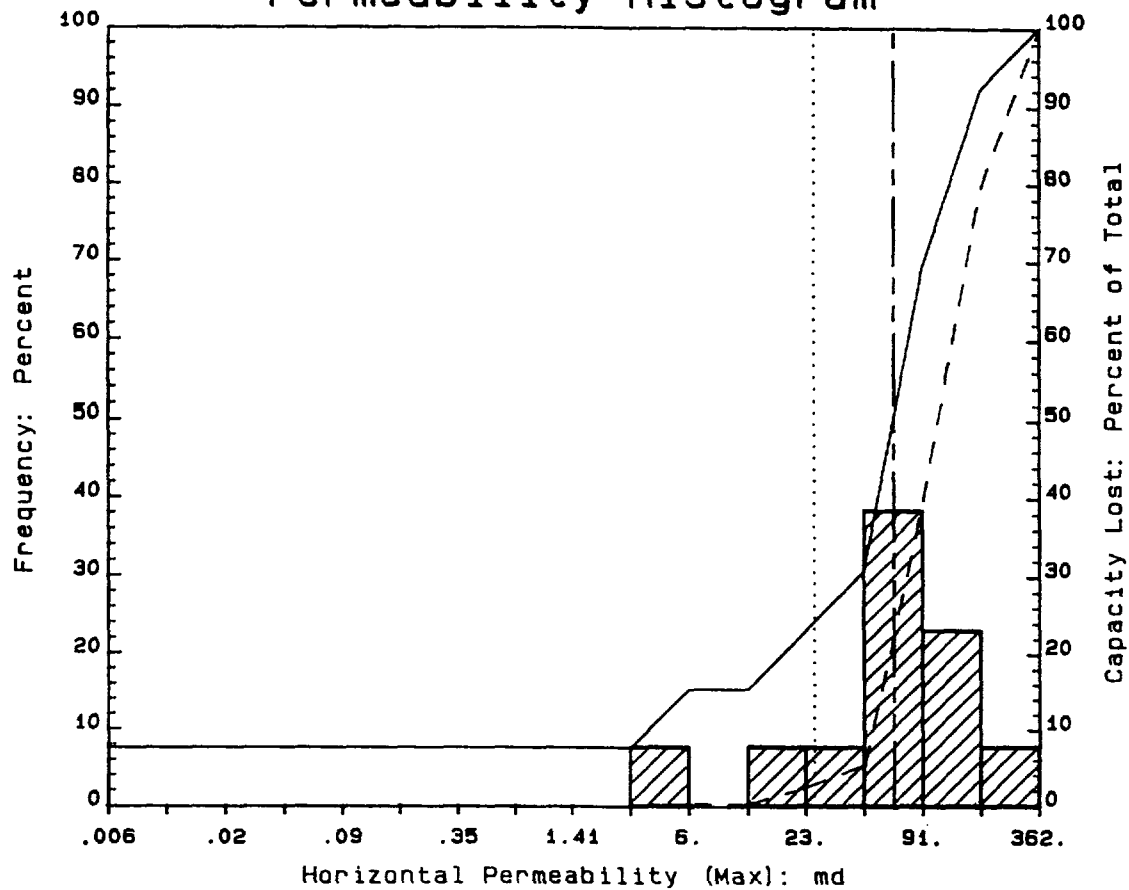
DELAWARE SAND (6393-6438 feet)

Core Laboratories

19-Apr-1988

- LEGEND -
DELAWARE SAND

Permeability Histogram



DAMSON OIL CORPORATION
SOUTHERN CALIFORNIA FEDERAL #7
WEST LUSK DELAWARE FIELD

DELAWARE SAND (6395-6438 feet)

Core Laboratories

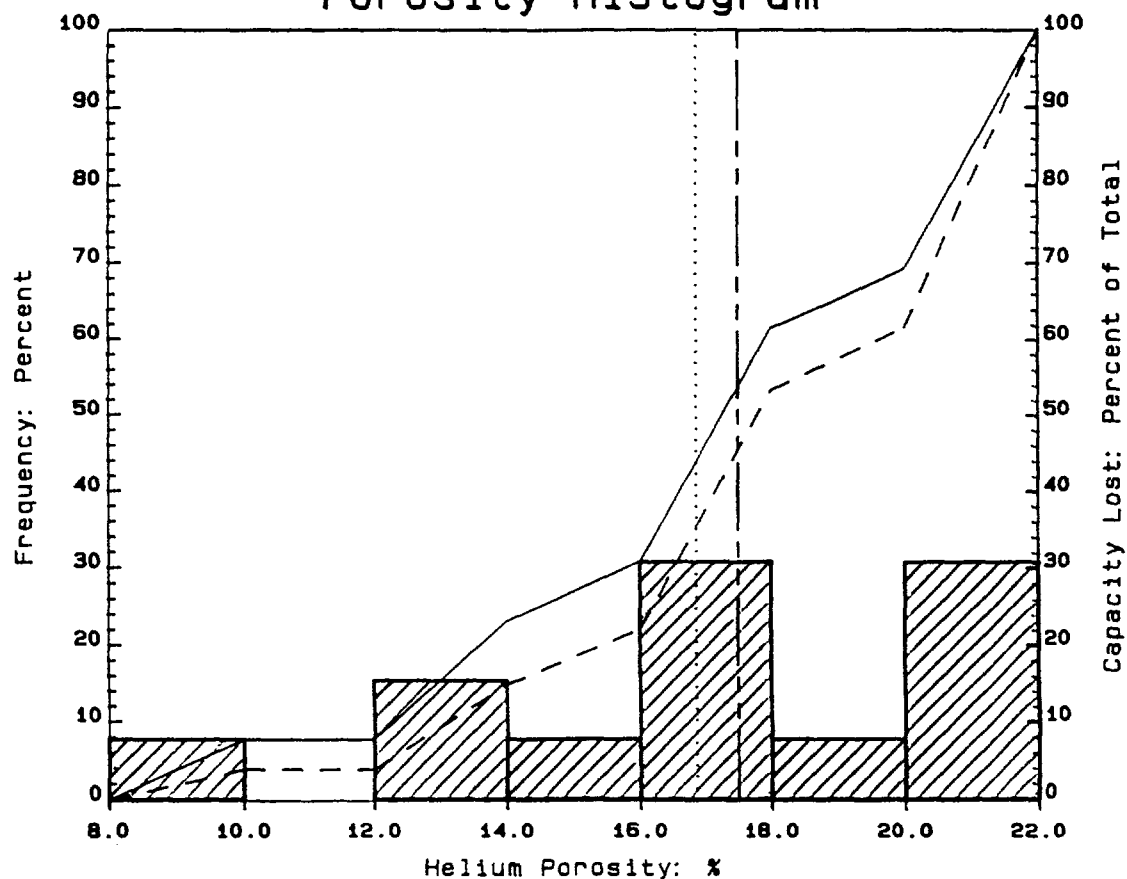
19-Apr-1988

- LEGEND -

- Median Value (64.0)
- Geom. Average (24.8)
- Cumulative Frequency
- - - Cumulative Capacity Lost

13 Samples

Porosity Histogram



DAMSON OIL CORPORATION
SOUTHERN CALIFORNIA FEDERAL #7
WEST LUSK DELAWARE FIELD

DELAWARE SAND (6395-6438 feet)

Core Laboratories

19-Apr-1988

- LEGEND -

- Median Value (17.5)
- Arith. Average (16.8)
- Cumulative Frequency
- - - Cumulative Capacity Lost

13 Samples

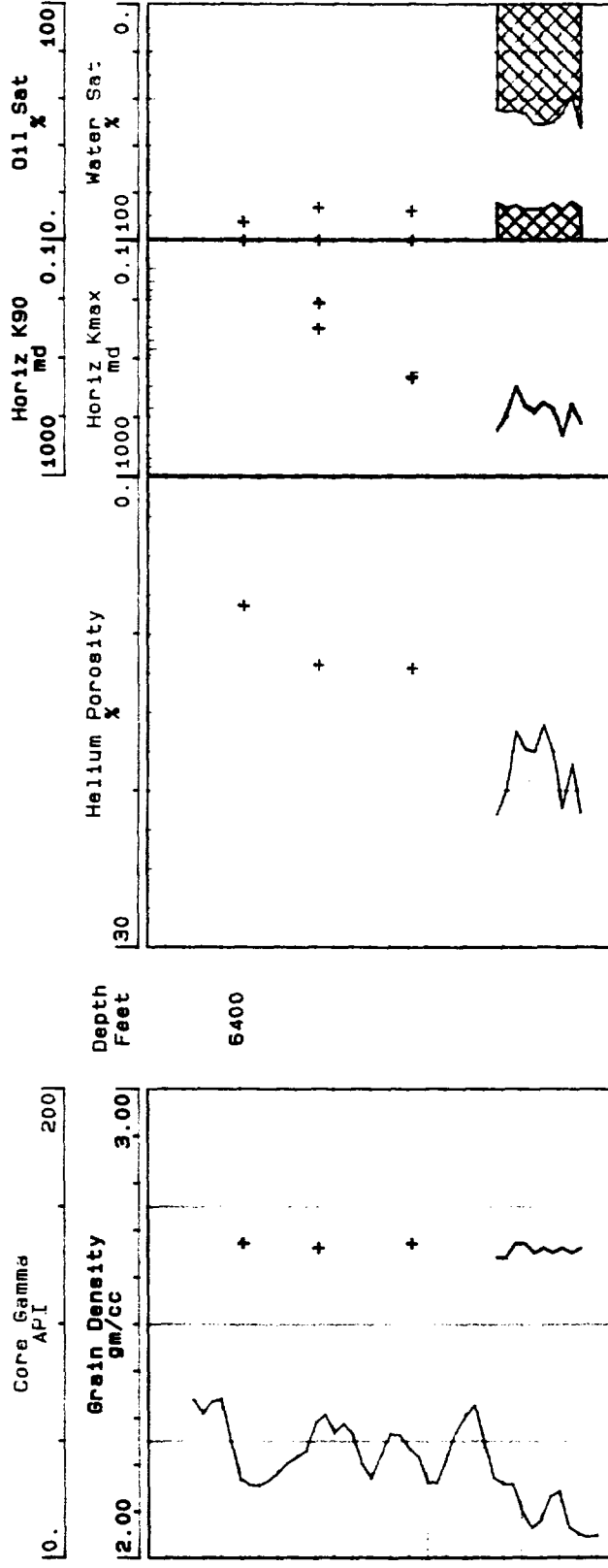
COMPLETION COREGRAPH

DAMSON OIL CORPORATION
SOUTHERN CALIFORNIA FEDERAL #7
WEST LUSK DELAWARE FIELD

Vertical Scale
5.00 in = 100.0 ft

DELAWARE SAND (6395-6438 feet)

Core Laboratories 19-Apr-1988



CORE LABORATORIES

Field : WEST LUSK DELAWARE FIELD File No.: 57181-15594
 Formation : DELAWARE Date : 5-5-88
 Coring Fluid : CUT BRINE API No. :
 Elevation : 3573' KB Analysts: REINHARDT

Company : DANSON OIL CORPORATION
 Well : SOUTHERN CALIFORNIA FEDERAL #8
 Location : 990' FNL & 1900 FEL, SEC. 29
 Co, State : LEA COUNTY, NEW MEXICO

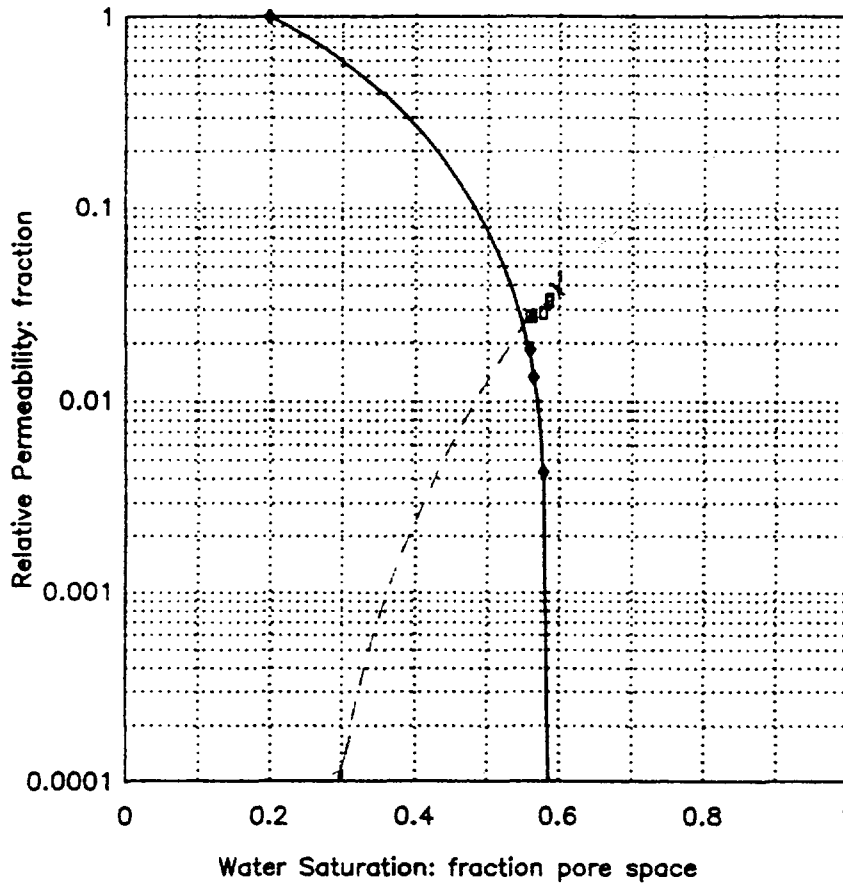
SIDEWALL CORE ANALYSIS RESULTS

SAMPLE REC. in	DEPTH ft	PERMEABILITY (SIDEWALL) md	POROSITY (HELIUM) %	SATURATION		GAS DETECTOR UNITS	DESCRIPTION
				(PORE VOLUME) OIL %	(BULK VOLUME) OIL %		
0.3	4655.0	55.0	20.7	0.0	71.4	0.0	Sd vfg lt-gry flu-0
1.2	4656.0	37.0	18.7	0.0	78.5	0.0	Sd vfg lt-gry flu-0
0.8	4658.0	19.0	16.7	0.0	74.4	0.0	Sd vfg lt-gry flu-0
0.5	4808.0	105.	23.1	4.5	54.5	0.0	Sd vfg gry-tan flu-dull yel sp
0.8	4810.0	100.	22.2	3.5	58.6	0.0	Sd vfg gry-tan flu-dull yel sp
0.8	4812.0	95.0	21.9	2.1	63.9	0.0	Sd vfg gry-tan flu-dull yel sp
1.0	4814.0	118.	23.9	5.4	63.1	0.0	Sd vfg gry-tan flu-dull yel sp
0.8	4815.0	115.	23.2	3.9	55.1	0.0	Sd vfg gry-tan flu-dull yel sp
0.8	4816.0	129.	24.3	7.6	61.8	0.0	Sd vfg gry-tan flu-dull yel sp
1.0	4818.0	116.	23.3	4.3	60.2	0.0	Sd vfg gry-tan flu-dull yel sp
1.1	6447.0	238.	25.9	14.6	46.8	0.0	Sd vfg gry flu-lt yel 6
1.1	6448.0	228.	25.4	14.3	49.2	0.0	Sd vfg gry flu-lt yel 6
1.0	6449.0	264.	27.1	12.9	45.0	0.0	Sd vfg gry flu-lt yel 6
1.0	6451.0	278.	27.4	15.0	48.2	0.0	Sd vfg gry flu-lt yel 6
1.0	6452.0	271.	27.3	12.1	48.5	0.0	Sd vfg gry flu-lt yel sp-f
1.0	6454.0	239.	25.9	9.1	54.6	0.0	NA T8FA Sd vfg lt-gry flu-0
0.1	6456.0	227.	25.4	0.0	69.5	0.0	Sd vfg lt-gry flu-0
0.8	6457.0	212.	23.3	0.0	74.6	0.0	Sd vfg lt-gry flu-0
0.8	6458.0	212.	23.3	0.0	64.6	0.0	Sd vfg lt-gry flu-0
0.8	6459.0	229.	25.5	0.0	73.5	0.0	Sd vfg lt-gry flu-0
0.8	6460.0	178.	22.6	0.0	76.3	0.0	Sd vfg lt-gry flu-0
0.5	6461.0	145.	21.9	0.0	81.3	0.0	Sd vfg lt-gry flu-0
0.4	6462.0	208.	23.1	0.0	71.1	0.0	Sd vfg gry flu-0
1.0	6463.0	211.	23.3	0.0	74.9	0.0	Sd vfg gry flu-0

Figure 6

UNSTEADY-STATE WATER-OIL RELATIVE PERMEABILITY

Company : Damson Oil Corporation
 Well : Southern California Federal No. 7
 Formation : Delaware
 Field : West Lusk
 County, State : Lea, New Mexico



Water Saturation, fraction pore space	Relative Permeability to Water, fraction	Relative Permeability to Oil, fraction
0.198	0.000	1.000
0.559	0.027	0.018
0.564	0.027	0.013
0.579	0.028	0.0042
0.586	0.032	0.00004
0.587	0.033	0.000001
0.587	0.032	0.000
EST.		
0.3	0.00001	0.60000
0.4	0.00225	0.2500
0.5	0.0125	0.0800

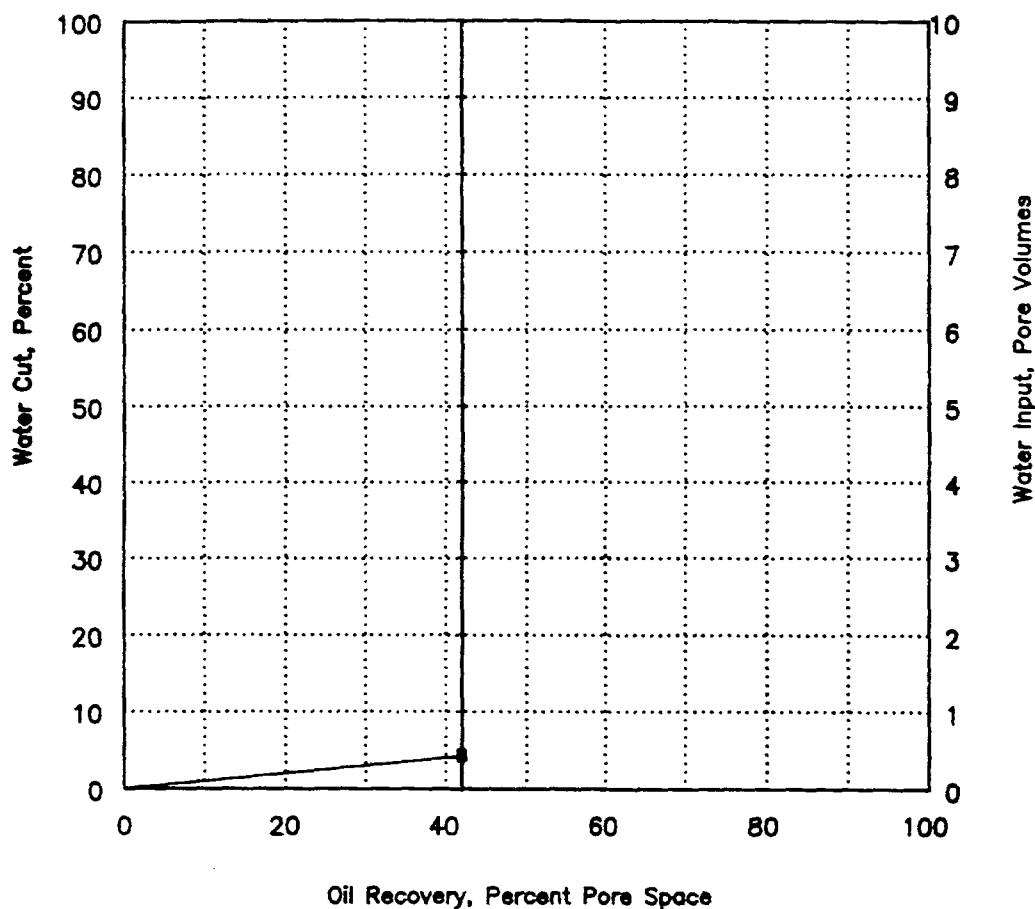
Sample I.D. : 13A
 Sample Depth : 6436-37 feet
 Permeability to Air : 115 md
 Porosity : 21.4 percent
 Initial Water Saturation : 19.8 percent
 Effective Permeability to Oil at Swi : 93 md

Figure 7

WATERFLOOD PERFORMANCE (Calculated from Relative Permeability)

Company : Damson Oil Corporation
 Well : Southern California Federal No. 7
 Formation : Delaware
 Field : West Lusk
 County, State : Lea, New Mexico

Reservoir Fluid Viscosities: Water = 0.983 cp at 119°F
 Oil = 0.818 cp at 119°F



Sample I.D. : 10A
 Sample Depth : 6433.6-34 feet
 Permeability to Air : 59 md
 Porosity : 18.6 percent
 Initial Water Saturation : 16.6 percent
 Effective Permeability to Oil at Swi : 59 md

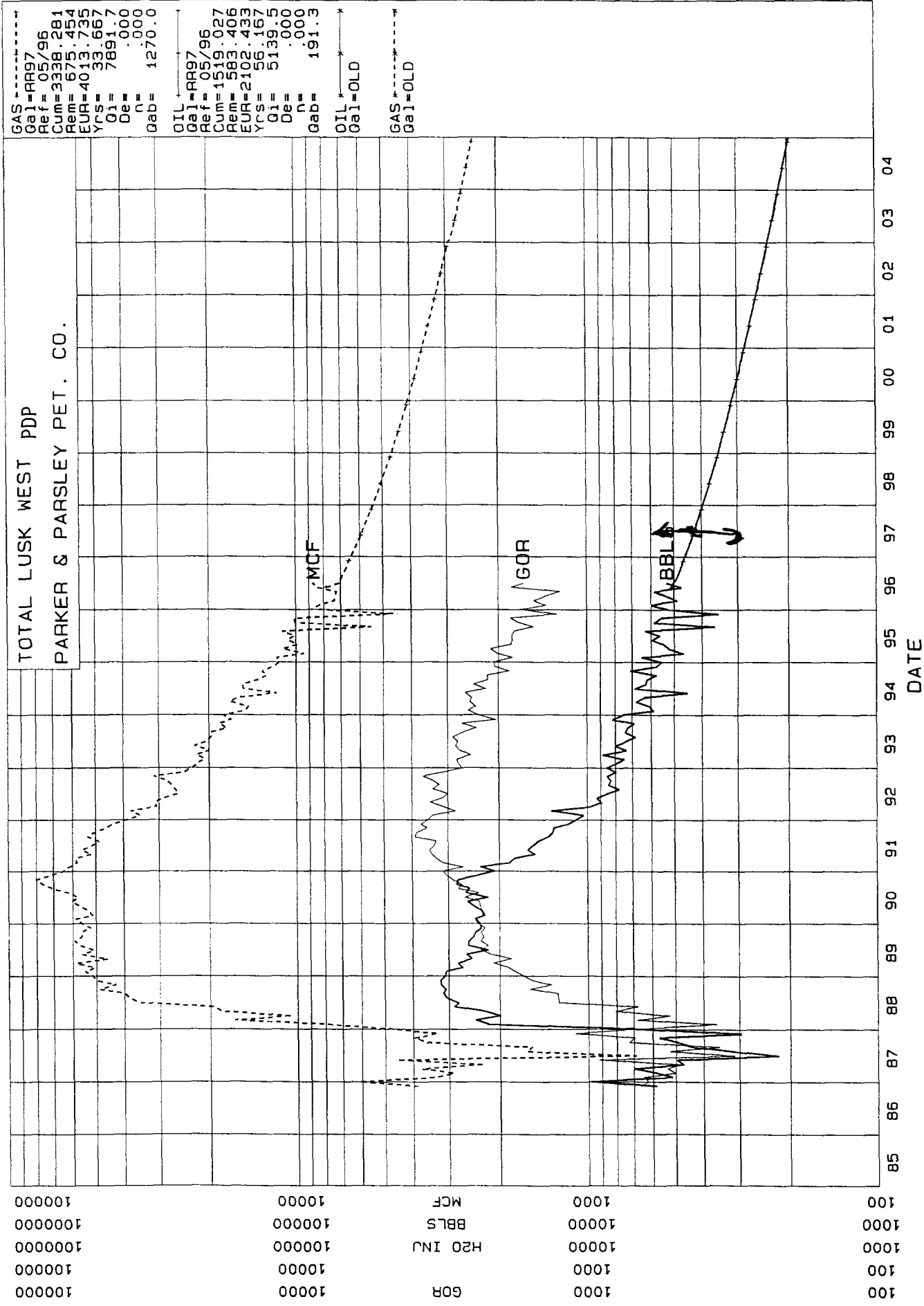
Figure 8

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
	Well #	SEC	Unit	OOIP	MBO	MMCF	PRIMARY	MMCF	GOR	RECOV.	INCREMENTAL	SECONDARY	TOTAL	RECOV.	Net	Pay	Por-	H2O		
				Cumulative to 7/1/96			MBO			FACT %	MBO	MMCF	GOR	OIL	FACT %	%	osity	SAT	Acres	AC-FT
LEASE	17	20	A	1,064	82.2	146.4	149.9	240.6	1,605	14.1%	75	84	1,124	225	21.1%	34	0.18	0.60	67	2280
LUSK DEEP UNIT A INJ	19	20	B	362	75.8	312.2	114.3	406.9	3,560	31.6%	57	142	2,492	171	47.4%	22	0.18	0.57	32	704
LUSK DEEP UNIT A	22	20	F	175	0.0	0.0	17.5	34.7	1,984	10.0%	9	12	1,389	26	15.0%	10	0.18	0.60	38	375
LUSK DEEP UNIT A INJ	12	20	G	381	61.3	174.7	65.7	182.7	2,781	17.2%	33	64	1,947	99	25.9%	22	0.17	0.62	40	880
LUSK DEEP UNIT A	15	20	H	444	32.9	80.9	32.9	80.9	2,459	7.4%	16	28	1,721	49	11.1%	25	0.18	0.57	34	850
LUSK DEEP UNIT A INJ	20	20	I	294	13.0	35.5	13.7	36.1	2,635	4.7%	7	13	1,845	21	7.0%	22	0.19	0.56	25	550
LUSK DEEP UNIT A	4	20	J	362	94.4	285.1	99.6	314.3	3,156	27.5%	50	110	2,209	149	41.2%	16	0.17	0.61	50	800
LUSK DEEP UNIT A INJ	14	20	O	80	9.8	38.9	9.8	38.9	3,969	12.3%	5	14	2,779	15	18.4%	8	0.18	0.58	20	159
LUSK DEEP UNIT A PUD	21	20	P	518	0.0	0.0	51.8	102.8	1,984	10.0%	26	36	1,389	78	15.0%	25	0.18	0.57	40	1000
Tract 2 Total/Sum/Avg				3,679	369.4	1073.7	555.2	1437.9	2,590	15.1%	278	503	1,813	833	22.6%	19	0.18	0.59	345	7598
AMOCO FEDERAL INJ	2	21	C	428	41.2	51.8	41.2	51.8	1,257	9.6%	21	18	880	62	14.4%	25	0.19	0.56	32	800
AMOCO FEDERAL	1	21	D	454	29.1	29.6	29.1	29.6	1,017	6.4%	15	10	712	44	9.6%	30	0.17	0.62	35	1050
Tract 3 Total/Sum/Avg				882	70.3	81.4	70.3	81.4	1,158	8.0%	35	28	811	105	12.0%	28	0.18	0.59	67	1850
MOBIL FEDERAL	1	21	E	615	106.0	190.5	106.0	190.5	1,797	17.2%	53	67	1,258	159	25.8%	29	0.19	0.54	36	1043
MOBIL FEDERAL	2	21	F	421	118.0	216.4	118.0	216.4	1,834	28.0%	59	76	1,284	177	42.0%	22	0.20	0.52	30	660
Tract 4A Total/Sum/Avg				1,036	224.0	406.9	224.0	406.9	1,817	21.6%	112	142	1,272	336	32.4%	26	0.20	0.53	66	1703
MOBIL FEDERAL INJ	4	21	K	249	53.0	117.8	101.8	138.6	1,361	40.9%	51	49	953	153	61.4%	13	0.20	0.52	30	390
MOBIL FEDERAL	3	21	L	445	85.1	236.2	226.9	330.7	1,457	51.0%	113	116	1,020	340	76.5%	21	0.21	0.49	30	660
Tract 4B Total/Sum/Avg				694	138.1	354.0	328.7	469.3	1,428	47.4%	164	164	999	493	71.1%	17	0.21	0.51	60	1050
SOUTHERN CAL FED INJ	11	29	A	319	0.0	0.0	31.9	63.2	1,984	10.0%	16	22	1,389	48	15.0%	20	0.19	0.56	29	580
SOUTHERN CALIFORNIA FED	8	29	B	388	89.0	186.9	98.3	203.5	2,070	25.3%	49	71	1,449	147	38.0%	21	0.20	0.52	29	609
SOUTHERN CALIFORNIA FED	7	29	F	125	45.8	106.8	45.8	106.8	2,332	36.6%	23	37	1,632	69	54.9%	13	0.16	0.64	25	300
SOUTHERN CAL FED INJ	12	29	G	478	0.0	0.0	47.8	94.9	1,984	10.0%	24	33	1,389	72	15.0%	20	0.18	0.60	51	1025
SOUTHERN CALIFORNIA FED	1	29	H	632	219.4	320.8	281.3	368.1	1,309	44.5%	141	129	916	422	66.8%	18	0.18	0.58	70	1260
SOUTHERN CAL FED INJ	4	29	I	209	0.0	0.0	20.9	41.5	1,984	10.0%	10	15	1,389	31	15.0%	16	0.18	0.60	28	448
SOUTHERN CALIFORNIA FED	5	29	J	373	129.6	268.4	142.2	288.8	2,031	38.1%	71	101	1,422	213	57.2%	25	0.16	0.66	41	1025
SOUTHERN CAL FED	9	29	L	185	0.0	0.0	18.5	36.7	1,984	10.0%	9	13	1,389	28	15.0%	13	0.19	0.55	25	300
SOUTHERN CAL FED INJ	6	29	M	208	61.4	160.3	68.3	173.4	2,539	32.9%	34	61	1,777	102	49.3%	16	0.17	0.62	30	480
SOUTHERN CAL FED INJ	10	29	O	444	0.0	0.0	44.4	88.0	1,984	10.0%	22	31	1,389	67	15.0%	25	0.17	0.62	41	1025
SOUTHERN CAL FED PUD	13	29	P	223	0.0	0.0	22.3	44.3	1,984	10.0%	11	16	1,389	34	15.0%	17	0.17	0.61	29	492
Tract 1A Total/Sum/Avg				3,584	545.2	1043.2	821.7	1509.2	2,200	22.9%	411	528	1,540	1233	34.4%	18	0.18	0.59	398	7544
S. A. BOWMAN FEDERAL INJ	5	29	K	344	112.9	274.4	121.2	293.4	2,421	35.2%	61	103	1,695	182	52.8%	18	0.18	0.60	41	738
S. A. BOWMAN FEDERAL	4	29	N	174	59.2	104.5	59.2	104.5	1,765	34.1%	30	37	1,236	89	51.1%	13	0.19	0.56	25	325
Tract 1B Total/Sum/Avg				518	172.1	378.9	180.4	397.9	2,206	34.8%	90	139	1,544	271	52.2%	16	0.18	0.58	66	1063
Grand Total				15,911	3,338.1	2,180.3	2,180.3	4,302.6	1,973	21.0%	1,090	1,506	1,381	3,270	31.5%	21	0.19	0.60	1,003	20,808
INJECTOR LOC PRIM RES MOVED TO SEC. RES				2,551	0	0	255.1	506.1	1,984		1345	2012								

1/6/97

VOLUMES

8:41 AM



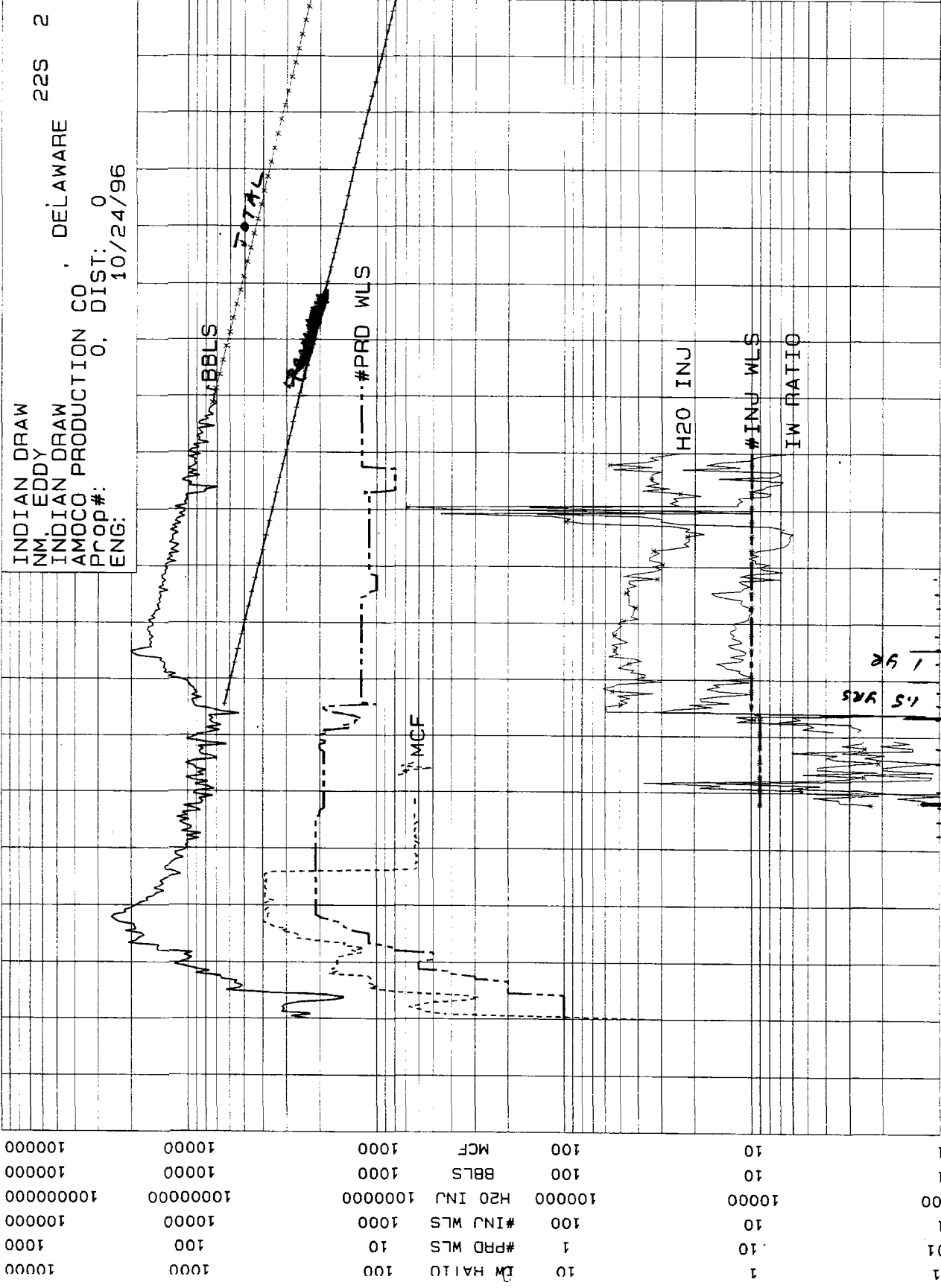
Graph 1

INDIAN DRAW NM, EDDY
INDIAN DRAW
AMOCO PRODUCTION CO., DELAWARE
PROP#: 0, DIST: 0
ENG: 10/24/96

22S 2

OIL=PRIM
Ref= 01/85
Cum=1405.271
Rem= 921.383
EUR=2326.654
Yrs= 78.083
Q1= 6411.8
De= 8.000
n= .000
Qab= 9.6

OIL=TOTAL (Sec + Prim)
Ref= 09/95
Cum=2899.677
Rem=1064.993
EUR=3964.670
Yrs= 79.333
Q1= 7410.0
De= 8.000
n= .000
Qab= 10.0



DATE

$$\frac{\text{Total} - \text{Prim}}{\text{Prim}} = \frac{\text{sec/prim Ratio}}{\text{prim}}$$

$$\frac{3965 - 2,327}{2,327} = 0.704$$

Analogy For the Lusk West proposed Delaware Waterflood

Performance Summary

Lea County, New Mexico

Effective Date 1-1-97



Unit/Lease	Old Indian Draw Unit	Proposed Lusk West Delaware Waterflood total pro
Location	T22S-R28E	T19S-R32E
Operator	Amoco	Parker & Parsley Pet. Co.
Field	Indian Draw	6400 Delaware
County, State	Eddy, NM	Lea, NM
Field Discovery Date	1973	Jun-89
Unitization Date	Jan-82	Unitization Proposed 1997
Initial Injection Date	Jan-82	Proposed
Stage of Waterflood	Mid	Proposed
Injection Pattern:	80 ac 5-spot	80 ac 5-spot
Primary Depletion total wells	21	21
Well Count at Project Start		
Producers	12	15
Injectors	12	12
Total	22	27
Ratio Injectors/Producers	83	80
Average Spacing - Acres/Well	40	40
Maximum No. Wells		
Producers	12	15
Injectors	12	12
Total	22	27
Initial Drilled Wells		
Producers	0 est	1 est
Injectors	0 est	1 est
Total	0 est	2 est
Average Depth (ft)	3,270	3,380
Pay Thickness, Ft	14	23
Project Area - Acres	880	1,063
Alt. Ac-ft	12,320	21,878
Porosity, %	17	19
S _{at} , %	41 to 45	60
Average Permeability, md	50 to 200	100 to 200
P _{at}	na	1.47
Oil Gravity, API	40 est	41
OOIP, (MBBL), est. volumetric	na	10,393
OOIP, Acres, BBL/Ac	na	10,362
OOIP, BBL/Ac-ft	na	499
Cumulative Oil Production - 1-1-97 (MBBL) (Est.)	2,890	1,557
Cumulative Oil Production - BBL/Acre	3.28	1.46
Cumulative Recovery Factor, %	NA	15.0
Average oil Production Per Well (MBBL)	38	71
Ultimate Primary Oil Recovery (MBBL)	2,327	2,180
Ultimate Primary Oil Recovery (BBL/Acre)	2.64	2.05
Ultimate Primary Recovery Factor (%)	NA	21.0
Average Primary Recovery Per Well (MBBL/Well)	111	81
Cumulative Secondary Oil Recovery - 1-1-97 (MBBL)	873	0
Ultimate Secondary Oil Under Current Mode (MBBL)	1,638	1,090
Average Ultimate Secondary Per Well - (MBBL)	137	73
Secondary Recovery Factor (%)	35	10.5
Secondary : Primary Ratio	0.704	0.500
Time from beginning injection to first oil response in months	18	21
First Response to Peak oil rate, months	12	8
Peak Well oil Rate (Total) mmbbl/d	826	780 Projected
Peak Well oil Recovery Factor (%)	44	52 Projected
Remaining oil rate (MBBL)	135	2,487
Ultimate Oil Recovery - (MBBL)	3,965	3,270
Ultimate Oil Recovery Factor (%) Current Operations Mode	NA	31.5
Ultimate Oil Recovery/Well (MBBL/Well)	180	121
Oil Production at start of flood (MBBL)	0	1,657
Oil Water Production at start of flood (MBBL)	213	1,288
Cumulative Water - Total Volume	1,177	1,883
Cumulative Water - 1/Ac-ft	1.33	15.35
Initial Water Production - 12/31/96 (MBBL)	1,324	
Cumulative Water Production - 12/31/96 (MBBL)	1,177	
Cumulative Water - 1/Ac-ft	1.33	

Figure 9

RECOVERY CALCULATIONS
Proposed Delaware Sandstone Waterflood
Lusk West field
Lea County, NM

Original Oil-in-place

Volumetric Approximation

where A_h = Reservoir volume (Ac-ft) $A = 1,003$ 21 $A_h = 20808$
 q = Porosity (Dec.) $q = 0.19$
 S_w = Connate Water Saturation (dec.) $S_w = 0.60$
 B_{oi} = Original Formation Volume Factor $B_{oi} = 1.17$
Original Oil-in-place, $N = 7,758 A_h q (1 - S_w) / B_{oi}$

 $N = 10,393$ MSTB

Ultimate Primary Recovery

Proposed Unit Area:
Remaining Reserves (Decline Curve Analysis) @ JAN 1, 1997= 369 MSTB
Cumulative Oil Production @ Jan -1-97= 1,557 MSTB
Ultimate Primary Recovery, existing wells = 1,926 MSTB
Ultimate Primary Recovery, proposed drilling & workovers = 254.0 MSTB
Ultimate Primary Recovery incl. proposed additional drilling = 2,180 MSTB
Primary Recovery Factor= 21.0 %

Waterflood Recovery

N_p , Est. Cumulative Oil Production @ Jan 1, 1997= 1,557 MSTB
OIP @ Jan 1, 1997= 10,393 MSTB
Estimated Oil Saturation @ Jan -1-96:
Where B_{or} = Current Formation Volume Factor 1.17
 B_{oi} = Original Formation Volume Factor 1.27
 S_w = Estimated Current Water Saturation (dec.) 0.60
 S_{or} = Estimated Residual Oil Saturation (dec.) 0.18

$$S_o = (1 - N_p / N) (B_{oi} / B_{or}) (1 - S_w)$$

$$S_o = 0.31$$

Remaining Mobil Oil, N_m @ 1-1-97

Where S_{or} = Residual Oil Saturation

$$N_m = 7758 \times A_h \times q \times (S_o - S_{or}) / B_{or}$$

$$N_m = 3,501 \text{ MSTB}$$

Est. 75% of total recoverable reserves is within pattern:

$$N_m \text{ recoverable} = N_m \times .75 = 2,626 \text{ MSTB}$$

Estimated Potential Waterflood Recovery, N_{pw}

Where $E_v = E_A \times E_v$

E_A = Fraction of Area Displaced by Injected Water 0.6

E_v = Fraction of Vertical Component of Reservoir Displaced By Injection Water 0.54

$$E_v = 0.32$$

$$N_{pw} = N_m \times E_v$$

$$N_{pw} = 851 \text{ MSTB}$$

Ultimate Secondary Recovery

Remaining Waterflood Recovery reserves @ 1-1-97 = 1,345 MBBL
Remaining Primary reserves from current producing wells @ 1-1-97= 1,926 MBBL
WF Ult.Sec.+ Primary Reserves, subject to economic cutoff = 3,270 MBBL
WF Ult.Sec.+ Primary Reserves, from cash flow = 3,273 MBBL
Ultimate Recovery Factor = 31.5 %

Ultimate Secondary Recovery: 1,091 MBBL
Secondary : Primary Ratio = 0.50 %

Estimated Fillup Time

Fillup volume = $7758 \times \text{Porosity} \times S_g \times A_h$ 3,067 MBBL

$S_g = 1 - S_w - S_o$

$$S_g = 0.10$$

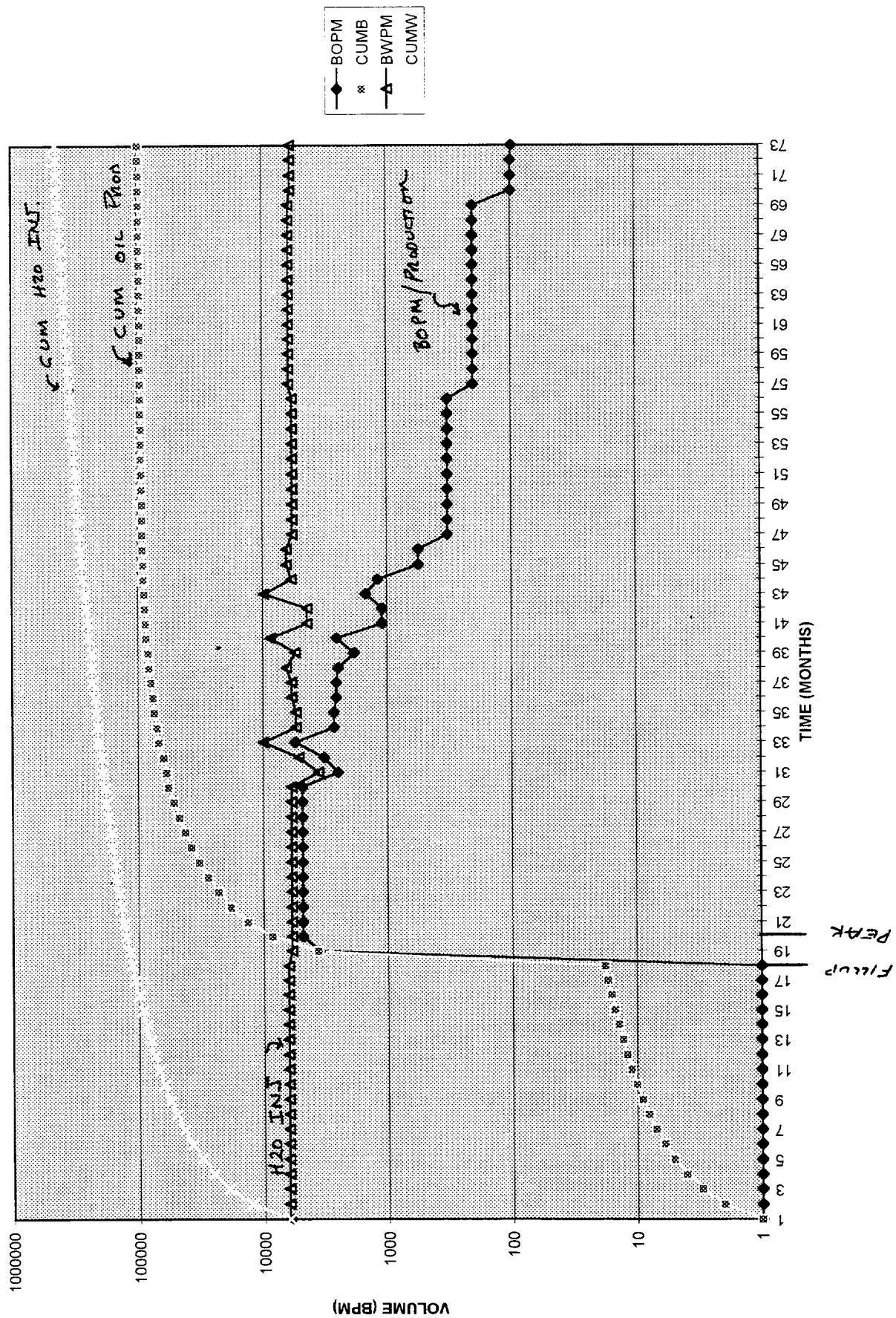
Water Injection Rat 4,488 BWPD

(approx. BWP 122400

Fillup time = Reservoir Volume/Rate

683 Days or 1.87 Yrs

LUSK WEST proposed Delaware Waterflood Dykstra-Parsons model



Graph 3

***** PROGRAM: BULE *****
 DYKSTRA-PARSONS METHOD
 (5-SPOT PATTERN)

(COVERAGE FROM DYKSTRA-PARSONS EQUATION)

INPUT FILE : LUSK.DAT
 OUTPUT FILE : LUSK.OUT

FLAGS:

IPRI = 2 DETAILED PRINTOUT
 IQWI = 1 WATER INJ RATE GIVEN
 IFIL = 1 GAS SPACE IN THE UNSWEPT REGION
 IS FILLED BY OIL
 IEABT = 1 EABT GIVEN

***** INPUT DATA *****

WELL SPACING	=	40.00 ACRE/WELL
TOTAL THICKNESS	=	13.00 FEET
AVERAGE POROSITY	=	.168 FRACTION
VISCOSITY OF OIL	=	.88 CP
VISCOSITY OF WATER	=	.80 CP
OIL FORMATION VOLUME FACTOR	=	1.269 RBL/STB
WATER FORMATION VOLUME FACTOR	=	1.010 RBL/STB
WATER SAT. AT BEGINNING	=	.480 FRACTION
GAS SAT. AT BEGINNING	=	.120 FRACTION
OIL SAT. AT BEGINNING	=	.400 FRACTION
RESID. OIL SATURATION	=	.200 FRACTION
RESID GAS SAT IN UNSWEPT AREA	=	.060 FRACTION
RESID GAS SAT IN SWEPT AREA	=	.020 FRACTION
RESERVOIR TEMPERATURE	=	119.00 DEGREE F
CONSTANT INJ RATE	=	200.00 STBW/D/PATTERN
INJ PRESS DIFFERENTIAL	=	1064.00 PSI
WELLBORE RADIUS	=	.250 FEET
AREAL SWEEP AT BT	=	.600 FRACTION
WATER-OIL RATIO CUTOFF	=	40.00 STB/STB

PERMEABILITY DATA

PERMEABILITY DISTRIBUTION:				
LAYER	MIDP DEPTH (FT)	THICK (FT)	PERMEABILITY (MD)	POROSITY (FRAC)
1	1.0	1.0	3.2	.120
2	2.0	1.0	22.0	.122
3	3.0	1.0	177.0	.215
4	4.0	1.0	96.0	.200
5	5.0	1.0	30.0	.162
6	6.0	1.0	64.0	.173
7	7.0	1.0	86.0	.175
8	8.0	1.0	58.0	.158
9	9.0	1.0	72.0	.175
10	10.0	1.0	203.0	.211
11	11.0	1.0	64.0	.183
12	12.0	1.0	128.0	.214

RELATIVE PERMEABILITY:

	SW	KRW	KRO
1	.400	.002	.250
2	.450	.006	.150
3	.500	.012	.080
4	.559	.027	.018
5	.579	.028	.001
6	.586	.032	.000

RESERVOIR AND PROCESS DATA

AREA OF 5-SPOT PATTERN	=	80.00 ACRES
PORE VOLUME OF THE PATTERN	=	1355477.76 RBL
OIL IN PLACE	=	427258.55 STB
MAXIMUM RECOVERABLE OIL	=	213629.28 STB
LOGARITHMIC AVERAGE OF PERMEABILITY	=	57.73 MD
WATER INJECTION RATE	=	200.00 STB/D/PATT

END-POINT MOBILITY RATIO	=	.14
SURFACE END-POINT MOBILITY RATIO	=	.18

. Dykstra-Parson Analysis
 Figure 11

LAYER	PERMEABILITY (MD)	THICKNESS (FEET)
1	203.0	1.0
2	177.0	1.0
3	128.0	1.0
4	96.0	1.0
5	86.0	1.0
6	72.0	1.0
7	64.0	1.0
8	64.0	1.0
9	58.0	1.0
10	30.0	1.0
11	22.0	1.0
12	3.2	1.0

*** AVERAGE PERMEABILITIES:

ARITHMETIC AVERAGE PERMEABILITY = 83.60 MD
LOGARITHMIC AVERAGE PERMEABILITY = 57.73 MD

DYKSTRA-PARSONS VARIATION DATA:

LAYER	PERM (MD)	THICK (FT)	CUMTH (FT)	%GREATER (%)
1	203.0	1.0	1.0	7.69
2	177.0	1.0	2.0	15.38
3	128.0	1.0	3.0	23.08
4	96.0	1.0	4.0	30.77
5	86.0	1.0	5.0	38.46
6	72.0	1.0	6.0	46.15
7	64.0	1.0	7.0	53.85
8	64.0	1.0	8.0	61.54
9	58.0	1.0	9.0	69.23
10	30.0	1.0	10.0	76.92
11	22.0	1.0	11.0	84.62
12	3.2	1.0	12.0	92.31

PERMEABILITY VARIATION (K15.9-K50) = .609
PERMEABILITY VARIATION (K50-K84.1) = .669
PERMEABILITY VARIATION (AVERAGE) = .639

LORENZ COEFFICIENT USING THICKNESS DATA:

LAYER	PERMEABILITY (MD)	THICK (FT)	CUMTH (FT)	FRACTION OF THICK	HK (FT-MD)	CUMHK (FT-MD)	FRACTION OF HK
1	203.0	1.0	1.0	.08333	203.0	203.0	.20235
2	177.0	1.0	2.0	.16667	177.0	380.0	.37879
3	128.0	1.0	3.0	.25000	128.0	508.0	.50638
4	96.0	1.0	4.0	.33333	96.0	604.0	.60207
5	86.0	1.0	5.0	.41667	86.0	690.0	.68780
6	72.0	1.0	6.0	.50000	72.0	762.0	.75957
7	64.0	1.0	7.0	.58333	64.0	826.0	.82337
8	64.0	1.0	8.0	.66667	64.0	890.0	.88716
9	58.0	1.0	9.0	.75000	58.0	948.0	.94498
10	30.0	1.0	10.0	.83333	30.0	978.0	.97488
11	22.0	1.0	11.0	.91667	22.0	1000.0	.99681
12	3.2	1.0	12.0	1.00000	3.2	1003.2	1.00000

LORENZ COEFFICIENT = .375

LORENZ COEFFICIENT USING POROSITY DATA:

LAYER	PORO (FRAC)	THICK1 (FT)	PERM (MD)	THICK2 (FT)	CUMHPHI (FT)	FRAC OF HPHI	CUMHK (FT-MD)	FRAC OF HK
1	.215	1.0	203.0	1.0	.22	.10199	203.0	.20235
2	.214	1.0	177.0	1.0	.43	.20351	380.0	.37879
3	.211	1.0	128.0	1.0	.64	.30361	508.0	.50638
4	.200	1.0	96.0	1.0	.84	.39848	604.0	.60207
5	.183	1.0	86.0	1.0	1.02	.48529	690.0	.68780
6	.175	1.0	72.0	1.0	1.20	.56831	762.0	.75957
7	.175	1.0	64.0	1.0	1.37	.65133	826.0	.82337
8	.173	1.0	64.0	1.0	1.55	.73340	890.0	.88716
9	.162	1.0	58.0	1.0	1.71	.81025	948.0	.94498
10	.158	1.0	30.0	1.0	1.87	.88520	978.0	.97488
11	.122	1.0	22.0	1.0	1.99	.94307	1000.0	.99681
12	.120	1.0	3.2	1.0	2.11	1.00000	1003.2	1.00000

LORENZ COEFFICI= .291

EABT GIVEN!!

COMPUTATION RESULTS

STAGE I - FROM INITIATION TO FILLUP

CUM. WATER INJECTION TO FILLUP = 112732.80 STB
INCREMENTAL WATER INJECTION = 112732.80 STB
TIME TO FILLUP = 563.66 DAY 1.5 years. FILL UP
INCREMENTAL TIME = 563.66 DAY
CUM. OIL PRODUCTION = .00 STB
OIL PRODUCTION RATE (BEFORE FILLUP) = .00 STB/DAY
OIL PRODUCTION RATE (AT FILLUP) = 159.18 STB/DAY

COVERAGE AND WOR FROM DYKSTRA-PARSONS EQ.1:

LAYER	COVERAGE (FRAC)	H2O-OIL RAT (STB/STB)	CUM PROD (STB)	INC PROD (STB)
1	.550	.09	56390.0	56390.0
2	.574	.20	58860.7	2470.7
3	.605	.34	62069.1	3208.4
4	.659	.51	67572.2	5503.1
5	.711	.72	72904.9	5332.7
6	.761	.96	77986.2	5081.3
7	.784	1.22	80434.6	2448.4
8	.802	1.53	82268.4	1833.8
9	.827	1.94	84782.4	2514.0
10	.848	2.45	86961.2	2178.8
11	.862	3.08	88425.2	1464.0
12	.867	3.85	88920.6	495.4
13	.867	4.92	88920.6	.0
14	.874	6.68	89605.1	684.5
15	.885	9.77	90712.1	1107.0
16	.916	16.62	93943.0	3230.9
17	.942	30.06	96549.7	2606.7
18	.952	62.87	97625.5	1075.8
19	.970	254.91	99512.4	1886.9
20	1.000	99999.99	102542.1	3029.7

TH-FT	NP-STB	DNP-STB	CUM.WP-STB	CUM.WI-STB	AVG.WOR	CUM.T-D
.7	56390.0	56390.0	.00000E+00	.18358E+06	.00	917.92
1.3	58860.7	2470.7	.46151E+03	.18715E+06	.19	935.74
2.0	62069.1	3208.4	.15562E+04	.19227E+06	.34	961.37
2.6	67572.2	5503.1	.44912E+04	.20212E+06	.53	1010.62
3.3	72904.9	5332.7	.85962E+04	.21293E+06	.77	1064.65
3.9	77986.2	5081.3	.13947E+05	.22466E+06	1.05	1123.32
4.6	80434.6	2448.4	.17304E+05	.23110E+06	1.37	1155.49
5.2	82268.4	1833.8	.20477E+05	.23657E+06	1.73	1182.87
5.9	84782.4	2514.0	.25961E+05	.24522E+06	2.18	1226.09
6.5	86961.2	2178.8	.31970E+05	.25396E+06	2.76	1269.82
7.2	88425.2	1464.0	.37051E+05	.26088E+06	3.47	1304.42
7.8	88920.6	495.4	.39207E+05	.26366E+06	4.35	1318.32
8.5	88920.6	.0	.39207E+05	.26366E+06	5.51	1318.32
9.1	89605.1	684.5	.44193E+05	.26951E+06	7.28	1347.55
9.8	90712.1	1107.0	.55633E+05	.28234E+06	10.33	1411.70
10.4	93943.0	3230.9	.10920E+06	.33997E+06	16.58	1699.84
11.1	96549.7	2606.7	.18564E+06	.41968E+06	29.32	2098.42
11.7	97625.5	1075.8	.24845E+06	.48384E+06	58.38	2419.20
12.4	99512.4	1886.9	.62513E+06	.86290E+06	199.63	4314.48
13.0	102542.1	3029.7	.19144E+09	.19168E+09	62981.92	*****

H-FT.	QO-STB	QW-STB	RECE	CBAR
.7	160.77	.00	.1320	.5499
1.3	138.58	25.88	.1378	.5740
2.0	125.18	42.71	.1453	.6053
2.6	111.75	59.60	.1582	.6590
3.3	98.71	75.98	.1706	.7110
3.9	86.60	91.19	.1825	.7605
4.6	76.11	104.37	.1883	.7844
5.2	66.97	115.86	.1925	.8023
5.9	58.17	126.91	.1984	.8268
6.5	49.83	137.40	.2035	.8481
7.2	42.31	146.84	.2070	.8623
7.8	35.65	155.21	.2081	.8672
8.5	35.65	155.21	.2081	.8672
9.1	23.42	170.57	.2097	.8738
9.8	17.26	178.32	.2123	.8846
10.4	11.21	185.91	.2199	.9161
11.1	6.54	191.78	.2260	.9416
11.7	3.35	195.79	.2285	.9521
12.4	1.00	198.75	.2329	.9705
13.0	.00	200.00	.2400	1.0000

SUMMARY OF RESULTS

STEP	TIME DAY	QWINJ STB/D	WI STB	NP STB	QO STB/D	QW STB/D	WORS	REC %OIP
1	.0	200.0	.0	.0	.0	.0	.00	.00
2	558.0	200.0	112732.8	.0	.0	.0	.00	.00
2	563.7	200.0	112732.8	.0	159.2	.0	.00	.00
3	917.9	200.0	183583.2	56390.0	160.8	.0	.00	13.20
4	935.7	200.0	187149.0	58860.7	138.6	25.9	.19	13.78
5	961.4	200.0	192274.9	62069.1	125.2	42.7	.34	14.53
6	1010.6	200.0	202124.1	67572.2	111.7	59.6	.53	15.82
7	1064.6	200.0	212929.4	72904.9	98.7	76.0	.77	17.06
8	1123.3	200.0	224664.2	77986.2	86.6	91.2	1.05	18.25
9	1155.5	200.0	231097.6	80434.6	76.1	104.4	1.37	18.83
10	1182.9	200.0	236574.4	82268.4	67.0	115.9	1.73	19.25
11	1226.1	200.0	245217.9	84782.4	58.2	126.9	2.18	19.84
12	1269.8	200.0	253963.5	86961.2	49.8	137.4	2.76	20.35
13	1304.4	200.0	260884.2	88425.2	42.3	146.8	3.47	20.70
14	1318.3	200.0	263663.3	88920.6	35.7	155.2	4.35	20.81
15	1318.3	200.0	263663.3	88920.6	42.3	155.2	5.51	20.81
16	1347.5	200.0	269509.0	89605.1	23.4	170.6	7.28	20.97
17	1411.7	200.0	282339.8	90712.1	17.3	178.3	10.33	21.23
18	1699.8	200.0	339968.8	93943.0	11.2	185.9	16.58	21.99
19	2098.4	200.0	419684.7	96549.7	6.5	191.8	29.32	22.60
20	2216.3	200.0	443258.0	96945.0	5.4	193.3	40.00	22.69

EST.
PEAK PROD @ 24 mo (2.0 years)

PARKER & PARSELEY PETROLEUM USA, INC.

SUMMARY RESERVES AND ECONOMICS

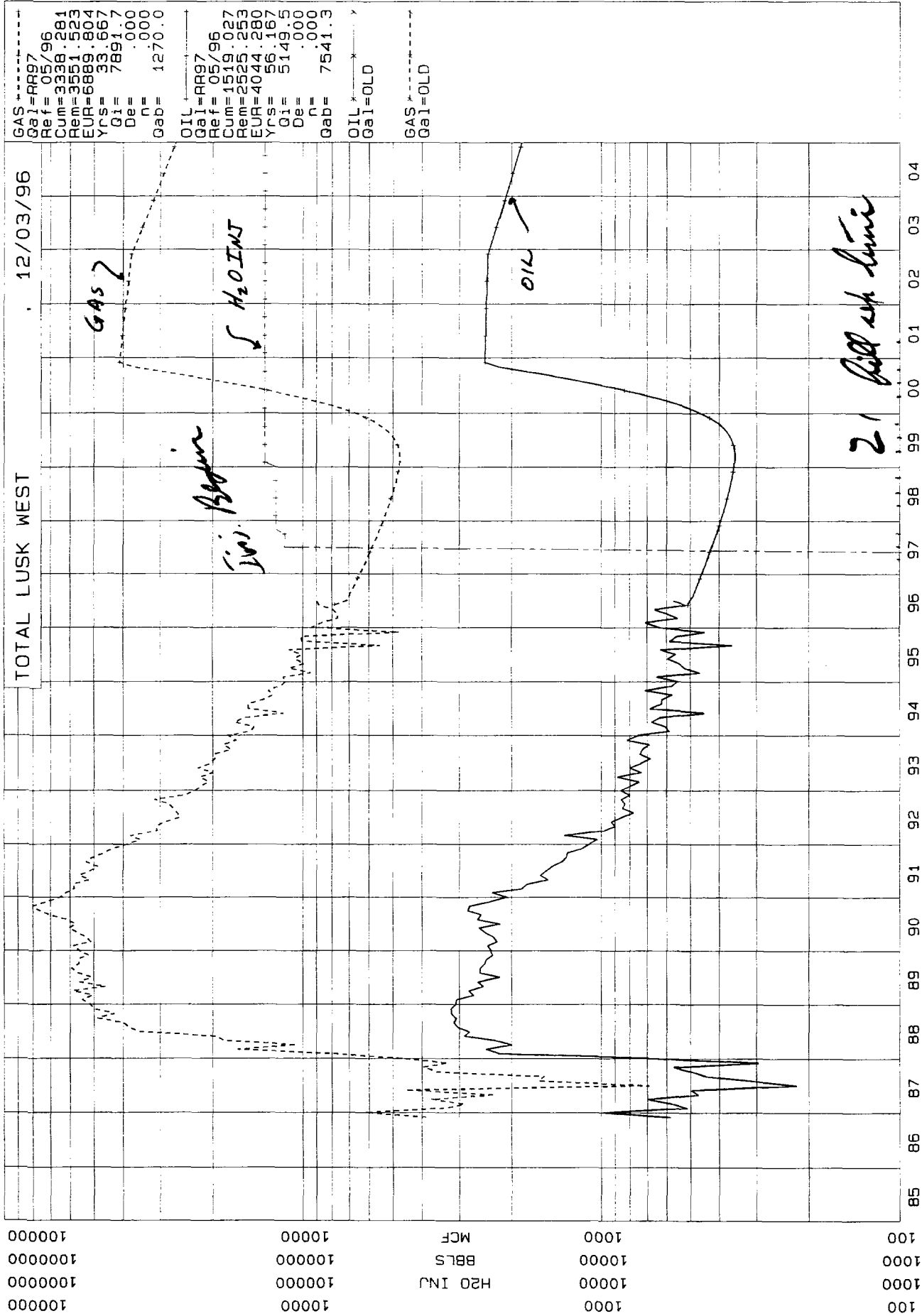
AS OF 1/97

LUSK WEST DELAWARE, TOTAL PRVD
PROPOSED 6400' SD WATERFLOOD

DATE : 01/06/97
TIME : 09:46:35
DBS : LUSKWEST
SET : LUSK
P.W. %
P.W. M\$

GROSS WELLS										OIL		GAS		P.W. %		P.W. M\$	
LIFE YRS.	22.833	UNDISC PAYOUT YRS	4.42	GROSS	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET
DISC INV	3477.580	DISC PAYOUT YRS	4.82	GROSS CUM.	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF
INIT W-1.	% 100.0000	DATE-OF-RETURN, %	37.85	GROSS RES.	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF
INIT N-1.	% 79.7753	DISC(NET/INVEST)	3.120	GROSS ULT.	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF	MB & MMF
-END- MO-YR	GROSS OIL	GROSS NGL	GROSS GAS	NET OIL	NET NGL	NET GAS	NET OIL	NET NGL	NET GAS	NET OIL	NET NGL	NET GAS	NET OIL	NET NGL	NET GAS	NET OIL	NET NGL
12-97	48.673	.000	68.553	38.840	.000	54.521	18.00	.00	18.00	.00	.00	1.15	5.00	10795.64	10795.64	5.00	10795.64
12-98	42.603	.000	57.958	33.996	.000	46.095	18.00	.00	18.00	.00	.00	1.15	15.00	4960.98	4960.98	15.00	4960.98
12-99	43.301	.000	59.362	34.554	.000	47.212	18.00	.00	18.00	.00	.00	1.15	20.00	3224.17	3224.17	20.00	3224.17
12-00	153.973	.000	242.364	122.868	.000	192.756	18.00	.00	18.00	.00	.00	1.15	30.00	998.16	998.16	30.00	998.16
12-01	287.848	.000	451.648	229.699	.000	359.203	18.00	.00	18.00	.00	.00	1.15	40.00	-273.41	-273.41	40.00	-273.41
12-02	284.048	.000	425.738	226.665	.000	338.597	18.00	.00	18.00	.00	.00	1.15					
12-03	259.968	.000	371.578	207.451	.000	295.522	18.00	.00	18.00	.00	.00	1.15					
12-04	228.864	.000	311.546	182.630	.000	247.778	18.00	.00	18.00	.00	.00	1.15					
12-05	201.708	.000	261.635	160.960	.000	208.083	18.00	.00	18.00	.00	.00	1.15					
12-06	78.454	.000	95.318	62.605	.000	75.808	18.00	.00	18.00	.00	.00	1.15					
12-07	14.458	.000	13.508	11.537	.000	10.743	18.00	.00	18.00	.00	.00	1.15					
12-08	13.296	.000	12.391	10.610	.000	9.855	18.00	.00	18.00	.00	.00	1.15					
12-09	10.379	.000	10.607	8.282	.000	8.436	18.00	.00	18.00	.00	.00	1.15					
12-10	8.836	.000	7.989	7.051	.000	6.353	18.00	.00	18.00	.00	.00	1.15					
12-11	7.640	.000	6.130	6.096	.000	4.876	18.00	.00	18.00	.00	.00	1.15					
SUB	1684.048	.000	2396.325	1343.844	.000	1905.838	18.00	.00	18.00	.00	.00	1.15					
REM	32.213	.000	24.208	25.705	.000	19.253	18.00	.00	18.00	.00	.00	1.15					
TOT	1716.261	.000	2420.533	1369.549	.000	1925.091	18.00	.00	18.00	.00	.00	1.15					
-END- MO-YR	TOTAL NET REVENUE	TOTAL NET SEV TAX	TOTAL NET ADVAL TAX	NET OPER EXPENSE	ABDN & SALVAGE	CAPITAL EXPENSE	FUTURE NET CASHFLOW	DISC 10% CASHFLOW	CUM DISC 10% CASHFLOW	DISC 10% CASHFLOW	CUM DISC 10% CASHFLOW						
12-97	761.818	54.626	.000	453.098	.000	3506.038	-3251.944	-3160.085	-3160.085	-3160.085	-3160.085						
12-98	664.940	47.661	.000	588.963	.000	84.644	-56.327	-46.659	-3206.743	-3206.743	-3206.743						
12-99	676.257	48.476	.000	576.176	.000	.000	51.605	39.505	-3167.238	-3167.238	-3167.238						
12-00	2433.293	174.716	.000	552.176	.000	.000	1706.402	1198.920	-1968.318	-1968.318	-1968.318						
12-01	4547.658	326.518	.000	515.376	.000	.000	3705.763	2414.477	446.159	446.159	446.159						
12-02	4469.365	320.714	.000	499.376	.000	.000	3649.275	2161.660	2607.819	2607.819	2607.819						
12-03	6073.963	292.175	.000	483.376	.000	.000	3298.412	1777.986	4385.805	4385.805	4385.805						
12-04	3572.282	256.052	.000	480.176	.000	.000	2836.053	1389.804	5775.610	5775.610	5775.610						
12-05	3136.577	224.702	.000	480.176	.000	.000	2431.699	1083.346	6858.955	6858.955	6858.955						
12-06	1214.076	86.916	.000	256.082	.000	.000	871.079	361.593	7220.548	7220.548	7220.548						
12-07	220.019	15.713	.000	96.014	.000	.000	108.291	39.873	7260.421	7260.421	7260.421						
12-08	202.315	14.449	.000	96.014	.000	.000	91.852	30.748	7291.169	7291.169	7291.169						
12-09	158.777	11.348	.000	76.807	.000	.000	70.622	21.493	7312.662	7312.662	7312.662						
12-10	134.220	9.583	.000	65.607	.000	.000	59.030	16.332	7328.994	7328.994	7328.994						
12-11	115.342	8.228	.000	57.607	.000	.000	49.506	12.452	7341.446	7341.446	7341.446						
SUB	26380.900	1891.876	.000	5277.024	.000	3590.682	15621.320	7341.446	7341.446	7341.446	7341.446						
REM	484.833	34.570	.000	284.856	.000	.000	165.407	30.934	7372.380	7372.380	7372.380						
TOT	26865.740	1926.446	.000	5561.881	.000	3590.682	15786.720	7372.381	7372.381	7372.381	7372.381						

Figure 12



Graph 4

PARKER & PARSELEY PETROLEUM USA, INC.

SUMMARY RESERVES AND ECONOMICS

AS OF 1/97

LUSK WEST DELAWARE, PDP
PROPOSED 6400' SD WATERFLOOD

LUSK WEST DELAWARE, PDP PROPOSED 6400' SD WATERFLOOD										DATE : 12/03/96 TIME : 08:38:50 DBS : LUSKWEST SET : LUSK P.W. % P.W. M\$			
										OIL		GAS	
										GROSS WELLS			
										GROSS CUM. MB & MMF			
										GROSS RES. MB & MMF			
										GROSS ULT. MB & MMF			
										P.W. M\$			
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										GROSS CUM. MB & MMF			
										GROSS RES. MB & MMF			
										GROSS ULT. MB			

AS OF 1/97

LUSK WEST DELAWARE, PUD
PROPOSED 6400' SD WATERFLOOD
INCREMENTAL SECONDARY
WATERFLOOD ECONOMICS

```
DATE : 01/06/97
TIME : 09:46:33
DBS  : LUSKWEST
SET   : LUSK
```

OIL										GAS		P.W. %		P.W. M\$	
LIFE YRS.		9.417		UNDISC PAYOUT YRS		4.89		GROSS WELLS							
DISC INV		3477.580		DISC PAYOUT YRS		5.50		GROSS CUM. MB & MMF							
INIT W.I. %		.0000		RATE-OF-RETURN, %		28.73		GROSS RES. MB & MMF							
INIT N.I. %		.0000		DISC(NET/INVEST)		2.529		GROSS ULT. MB & MMF							
-END- MO-YR	GROSS OIL	GROSS NGL	GROSS GAS	NET OIL	NET NGL	NET GAS	NET OIL	NET NGL	NET GAS	NET OIL	NET NGL	NET GAS	NET OIL	NET NGL	NET GAS
12-97	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
12-98	.264	.000	.491	.264	.000	.390	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-99	6.250	.000	11.083	4.988	.000	8.814	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-00	121.855	.000	205.805	97.238	.000	163.680	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-01	261.000	.000	423.547	208.274	.000	336.854	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-02	260.532	.000	402.249	207.900	.000	319.916	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-03	239.484	.000	351.952	191.104	.000	279.914	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-04	210.267	.000	293.992	167.790	.000	233.817	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-05	184.614	.000	245.576	147.319	.000	195.311	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-06	62.734	.000	80.592	50.061	.000	64.096	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
12-07															
12-08															
12-09															
12-10															
12-11															
SUB	1347.000	.000	2015.287	1074.885	.000	1602.792	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
REM	.000	.000	.000	.000	.000	.000	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOT	1347.000	.000	2015.287	1074.885	.000	1602.792	18.00	.00	18.00	18.00	.00	18.00	18.00	.00	18.00
-END- MO-YR	TOTAL NET REVENUE	TOTAL NET SEV TAX	TOTAL NET ADVAL TAX	NET OPER EXPENSE	ABDN & SALVAGE	CAPITAL EXPENSE	FUTURE NET CASHFLOW	DISC 10% CASHFLOW	CUM CASHFLOW	DISC 10% CASHFLOW	CUM CASHFLOW	DISC 10% CASHFLOW	CUM CASHFLOW	DISC 10% CASHFLOW	CUM CASHFLOW
12-97	.000	.000	.000	241.883	.000	3506.038	-3747.921	-3633.913	-3633.913	-3633.913	-3633.913	-3633.913	-3633.913	-3633.913	-3633.913
12-98	4.241	.305	.000	384.148	.000	84.644	-464.857	-401.415	-4035.328	-401.415	-4035.328	-401.415	-4035.328	-401.415	-4035.328
12-99	99.914	7.185	.000	384.162	.000	.000	-291.433	-231.265	-4266.593	-231.265	-4266.593	-231.265	-4266.593	-231.265	-4266.593
12-00	1938.518	139.318	.000	384.162	.000	.000	1415.039	989.865	-3276.728	989.865	-3276.728	989.865	-3276.728	989.865	-3276.728
12-01	4136.313	297.112	.000	384.162	.000	.000	3455.039	2250.954	-1025.774	2250.954	-1025.774	2250.954	-1025.774	2250.954	-1025.774
12-02	4110.108	295.043	.000	384.162	.000	.000	3430.903	2032.191	1006.416	2032.191	1006.416	2032.191	1006.416	2032.191	1006.416
12-03	3761.781	269.875	.000	384.162	.000	.000	3107.745	1675.223	2681.639	1675.223	2681.639	1675.223	2681.639	1675.223	2681.639
12-04	3289.105	235.826	.000	384.162	.000	.000	2669.116	1308.009	3989.648	1308.009	3989.648	1308.009	3989.648	1308.009	3989.648
12-05	2876.357	206.117	.000	384.162	.000	.000	2286.079	1018.479	5008.127	1018.479	5008.127	1018.479	5008.127	1018.479	5008.127
12-06	974.803	69.827	.000	160.067	.000	.000	744.909	310.496	5318.623	310.496	5318.623	310.496	5318.623	310.496	5318.623
12-07															
12-08															
12-09															
12-10															
12-11															
SUB	21191.140	1520.608	.000	3475.230	.000	3590.682	12604.620	5318.623	5318.623	5318.623	5318.623	5318.623	5318.623	5318.623	5318.623
REM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOT	21191.140	1520.608	.000	3475.230	.000	3590.682	12604.620	5318.623	5318.623	5318.623	5318.623	5318.623	5318.623	5318.623	5318.623

Figure 14

Parker & Parsley Dev. L. P., PUD

TOTAL LUSK WEST

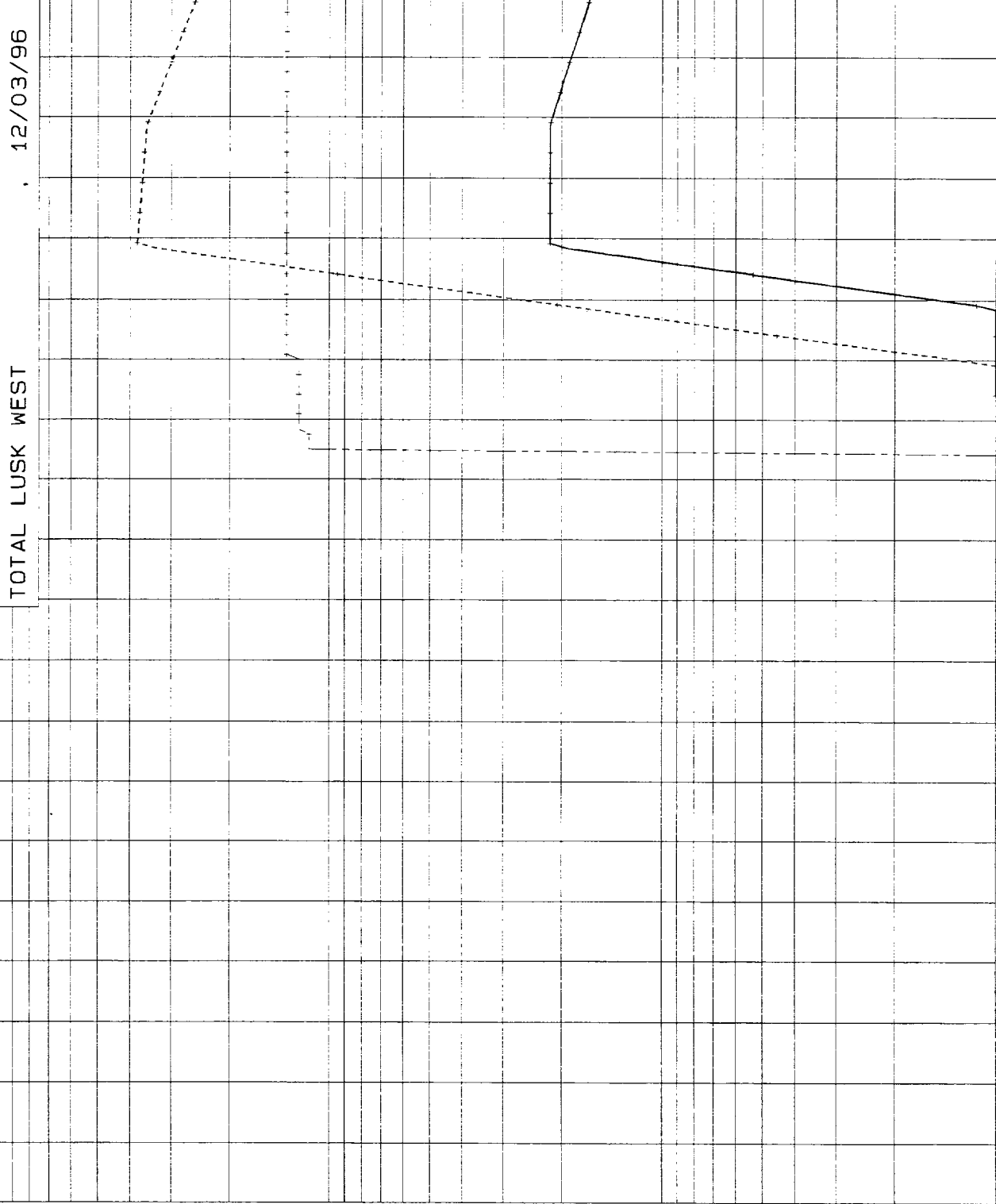
12/03/96

GAS -----
 Gal=RR97
 Ref= 05/98
 Cum= .000
 Rem=3193.967
 EUR=3193.967
 Yrs= 15.250
 Qi= 0
 De= .000
 n= .000
 Gab= .0

OIL -----
 Gal=RR97
 Ref= 05/98
 Cum= .000
 Rem=2117.548
 EUR=2117.548
 Yrs= 15.250
 Qi= 10.0
 De= .000
 n= .000
 Gab= 5425.0

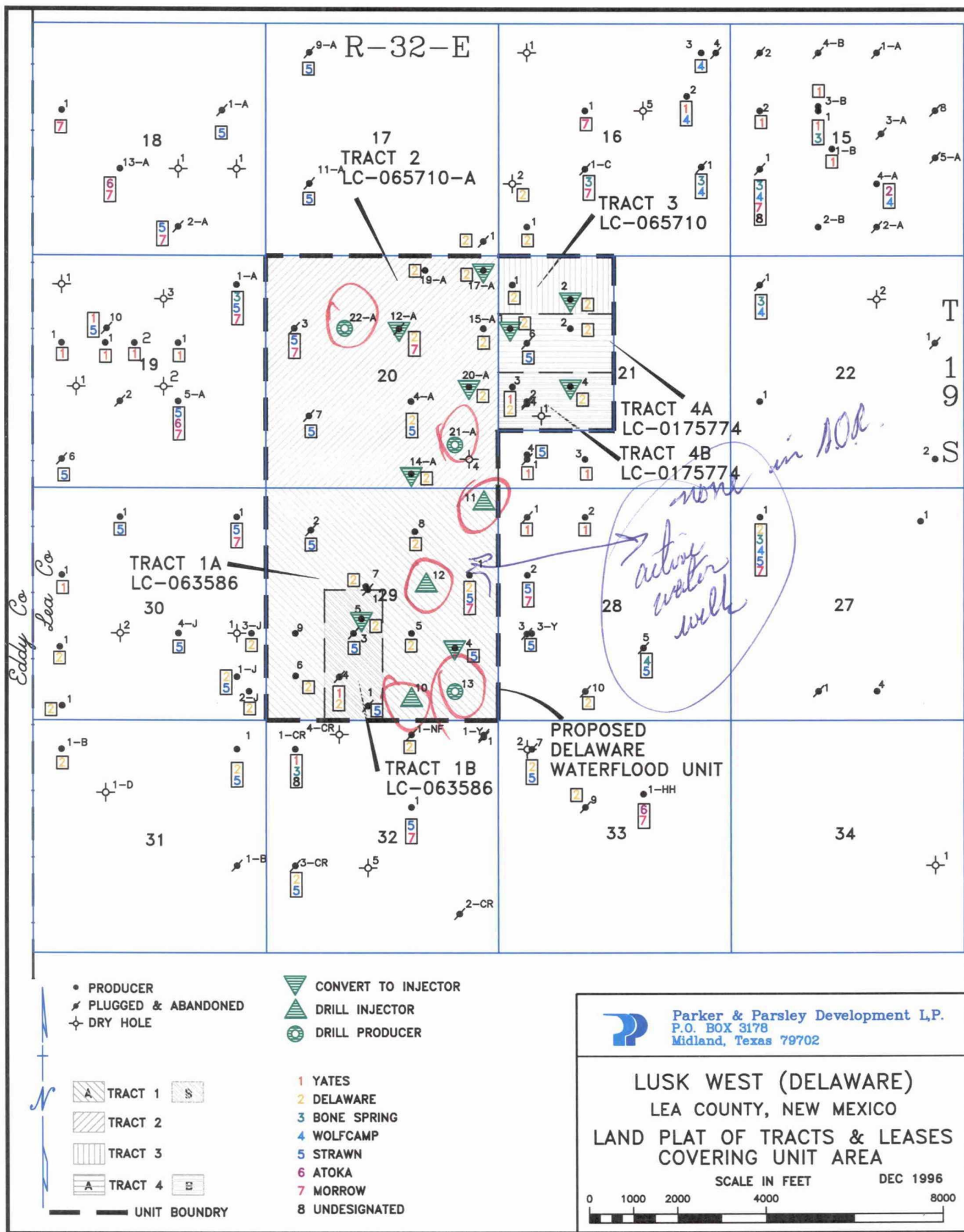
OIL -----
 Gal=OLD

GAS -----
 Gal=OLD



Graph 5

EXHIBIT "A"



Working Interest

Participation By

Tract(s)	WI Owner	Sec	AC-FT	Primary EUR	1996 Prod	PHI-H	Blend	Diff (high-low)
2	PPDLP	20	36.5148%	28.7162%	32.0779%	32.6856%	32.4986%	
3,4A,4B	PPDLP	21	22.1213%	27.3389%	44.3005%	27.2157%	30.2441%	
1	PPDLP	29	30.6815%	33.3231%	17.7661%	30.2470%	28.0044%	
1	Irwin, K	29	0.6474%	0.6437%	0.3549%	0.5971%	0.5608%	
1	Irwin, W TRST	29	0.6474%	0.6437%	0.3549%	0.5971%	0.5608%	
1	Scope Energy	29	7.7690%	7.7250%	4.2585%	7.1649%	6.7293%	
1	Amity Oil	29	1.6185%	1.6094%	0.8872%	1.4927%	1.4019%	
Total PPDC Sec 20,21 & 29			100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	
PPDLP Total			89.3176%	89.3782%	94.1445%	90.1483%	90.7472%	-4.83%

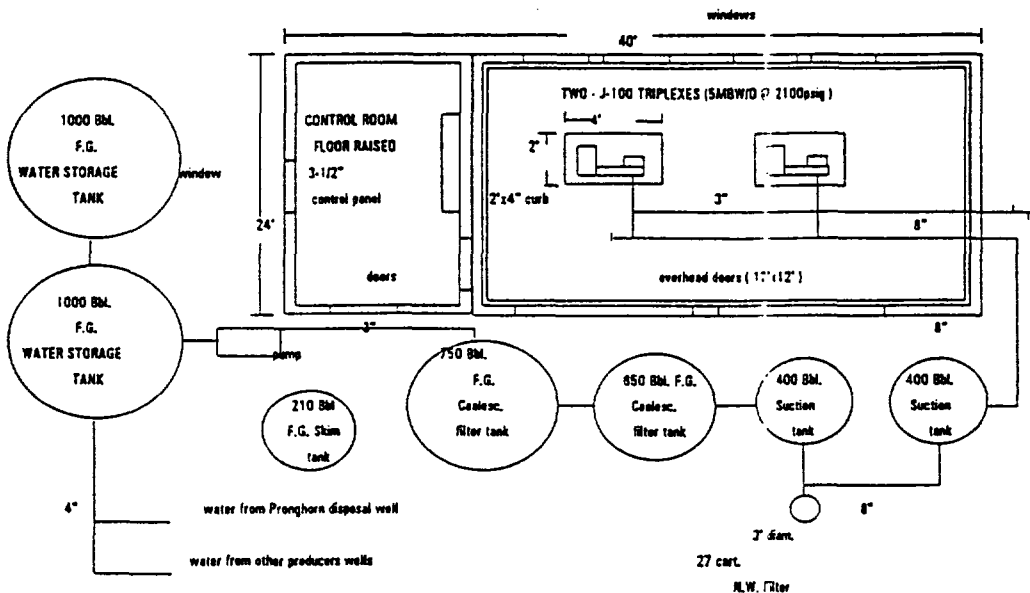
Witness #3

NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development L.P.
EXHIBIT 20
Case Nos. 11,703 and 11,704
Date of Hearing - February 6, 1997

LUSK WATERFLOOD INJECTION FACILITY

LEA COUNTY, NEW MEXICO

(4)



FACILITIES :

Building / Pad			\$30,000
J-100 Triplex Pumps	2	\$12,000ea.	\$ 24,000
(100 HP, 2515 BPD @ 2100 psig.)			
Installation / Labor			\$ 25,000
Electrical			\$ 10,000
Automation Controls			\$ 10,000
Transfer Pumps			\$ 5,500
Coalescer Tank, 750 Bbls.	1	\$25,000ea.	\$ 25,000
Coalescer Tank, 650 Bbls.	1	\$20,000ea.	\$ 20,000
Suction Tank, 400 Bbls.	1	\$ 7,500ea.	\$ 7,500
Filter Suction Tank, 400 Bbls.	1	\$ 8,500ea.	\$ 8,500
Prod. Water Storage, 1000 Bbls.	2	\$ 9,000ea.	\$ 18,000
F.G. Skim Tank, 210 Bbls.	1	\$ 2,500ea.	\$ 2,500
27 cart. filter, 3' diam., N.W.	1	\$ 25,000ea.	\$ 25,000
Fittings & Connections			\$ 30,000
		TOTAL :	\$241,000

WATER SUPPLY :

4" F.G. flowline (300 psig.)	\$2.50 / ft.	2,000ft.	\$ 5,000
Centrifugal pump (5,000 b/d, 200psi)	\$ 2,500ea.		\$ 2,500
Trenching / Laying	\$1.00 / ft	2,000ft.	\$ 2,000
		TOTAL :	\$ 9,500

MISC.:

Dirtwork			\$ 2,000
Telemetry System for pumps			\$10,000
Labor			\$18,000
		TOTAL :	\$30,000

NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development L.P.
EXHIBIT 21A
Case Nos. 11,703 and 11,704
Date of Hearing - February 6, 1997.

Sanitary Sewer Main Map

420'

178' 3' x 2' - 1" 3700'

264'

3' x 2' - 1" 3700'

400' 2" 518'

3' x 2' - 1" 2' 3' x 2' - 1" 2'

3' x 2' - 1" 240' 4000'

178' 500' 3' x 2' - 1" ball play 163'

3' x 2' - 1" 500' 143'

182' 700' 3' x 2' - 1" 2" 178'

3' x 2' - 1" 700' 518'

300 400' 2"

3' x 2' - 1" 1000' 128'

286 3000' 3' x 2' - 1" 3' x 2' reducer 1000'

118' 2" - 1"

KEY:

1997

1998

1999

Convert to WGS 1983

Drill WIW

MAIN TRUNKLINE				
3" F.G. (3,000 pair)	\$9.50/ft.	8,000ft.		\$ 76,000
3"x 2" - tees	\$310ea	11		\$ 3,410
3" bull plugs	\$30ea	3		\$ 90
2"x 2" - tees	\$173ea	7		\$ 1,211
3"x 2" reducers				
w/ bushings	\$50ea	3		\$ 150
2"x 1" bushings	\$50ea.	13		\$ 650
Trenching & Laying	\$1/ft	8,000ft		\$ 8,000
TOTAL :				\$ 89,511

2" F.G. (13,000 psig)	\$5.00/ft	14,900ft	\$ 74,500
2"x 45	\$150ea	4	\$ 300
2"x 1" bushing	\$ 50ea	16	\$ 800
2" valves	\$620ea	16	\$ 9,920
2" valves	\$620ea	12	\$ 7,440
2"x 45 elbows	\$173ea	32	\$ 5,536
2" tees	\$173ea	16	\$ 2,768
Flanges	\$186ea	14	\$ 2,604
2"x 3" Nipples	\$ 34ea	19	\$ 646
Meter	\$700ea.	16	\$ 11,200
Check Valve	\$300ea.	16	\$ 4,800
Bag Filter	\$700ea.	16	\$ 11,200
Wheatly Wellhead			
Injection Systems	\$2,000ea.	16	\$ 32,000
Trenching & Laying	\$1/ft	14,900ft	\$ 14,900

distribution
system

NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development L.P.
EXHIBIT 21B
Case Nos. 11,703 and 11,704
Date of Hearing - February 6, 1997

\$ 32,000
\$ 14,000
TOTAL: \$ 155,560

INJECTION WELL DATA SHEET

SECTION III

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION FOR AUTHORIZATION TO INJECT

LUSK WEST (DELAWARE) UNIT

Lea County, New Mexico

NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development L.P.
EXHIBIT 22
Case Nos. 11,703 and 11,704
Date of Hearing - February 6, 1997

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<u>Item</u>	<u>Attachment</u>
Application.....	Form C-108
Injection Well Data Sheet.....	C-108 III
Map of Area.....	C-108 V
Tabulations of Well Data.....	C-108 VI
Data Sheet on Proposed Operations.....	C-108 VII
Geological Data Sheet.....	C-108 VIII
Injection Well Stimulation Program.....	C-108 IX
Logging and Test Data.....	C-108 X
Chemical Analysis of Fresh Water.....	C-108 XI
Affirmative Statement.....	C-108 XII
Proof of Notice.....	C-108 XIII

APPLICATION

FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☒ no
- II. Operator: Parker & Parsley Development L.P.
Address: P. O. Box 3178, Midland, TX 79702
Contact party: J. Britt Hirth Phone: 915/571-1266
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: J. Britt Hirth Title Sr. Operations Engineer
Signature: J. Britt Hirth Date: 12/11/96
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

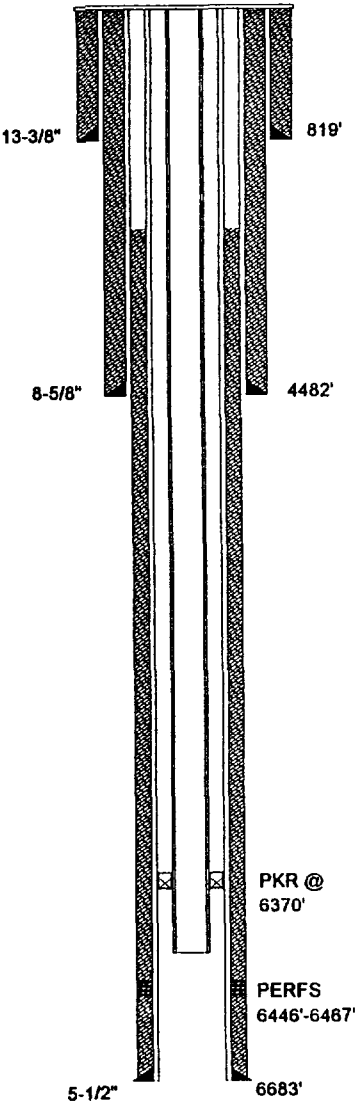
POSED INJECTION WELL DATA SHF

Parker & Parsley
Development L.P.

OPERATOR: LEASE: LUSK DEEP UNIT "A"

WELL NO 12 1660' FNL & 2300' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 500 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1650 SX
TOC: 1350 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 2710 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6446 FEET TO: 6467 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6370 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL
COMMENT: SPUD WELL 11/2/74. P&A WELLBORE 8/27/86. RE-ENTRY 4/12/89

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)
C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)
D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 8839'-8914' CIBP AT 8800' W/5, SX, CMT/TOP, PERFS 10680'-10708',
CIBP AT 10640' W/5, SX, CMT/TOP, PERFS 11460'-11581', CIBP AT 11430' W/5, SX, CMT/TOP, CIBP AT 12212' W/20, SX, CMT/TOP

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:
1. YATES 2600'-2800' WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES
2. DELAWARE 4600'-7100' W. LUSK DELAWARE
LUSK DELAWARE
3. BONE SPRING 8200'-8950' WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING
4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
5. STRAWN 11000'-11200' LUSK STRAWN OIL
6. ATOKA 11200'-11400' LUSK ATOKA GAS
7. MORROW 11500'-12000' LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS

PROPOSED INJECTION WELL DATA SHEET

Parker & Parsley
Development L.P.

OPERATOR:

LEASE: LUSK DEEP UNIT "A"

WELL NO 14

330' FSL & 1980' FEL

SEC-20

T-19-S

R-32-E

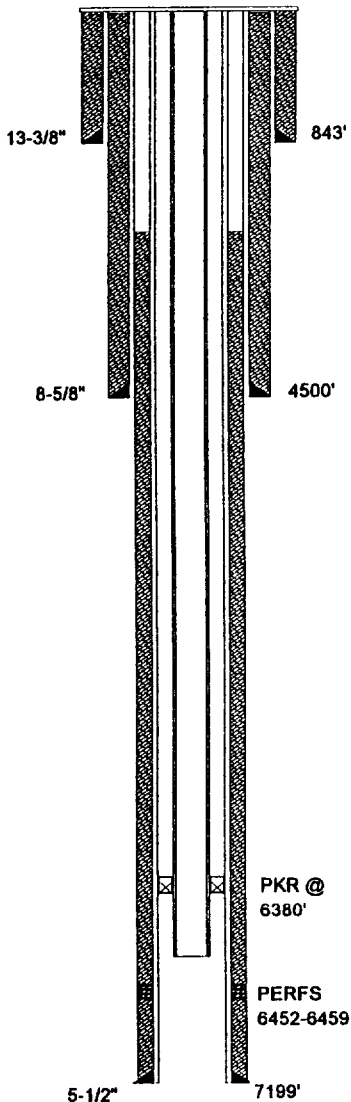
FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 850 SX

TOC: 2320 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6452 FEET TO: 6459 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6380 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800' WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES

5. STRAWN 11000'-11200' LUSK STRAWN OIL

6. ATOKA 11200'-11400' LUSK ATOKA GAS

2. DELAWARE 4600'-7100' W. LUSK DELAWARE
LUSK DELAWARE

7. MORROW 11500'-12000' LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS

3. BONE SPRING 8200'-8950' WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING

4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL

FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

POSED INJECTION WELL DATA SHEET

OPERATOR:

Parker & Parsley
Development L.P.

LEASE:

LUSK DEEP UNIT "A"

WELL NO

17

330' FNL & 330' FEL

SEC-20

T-19-S

R-32-E

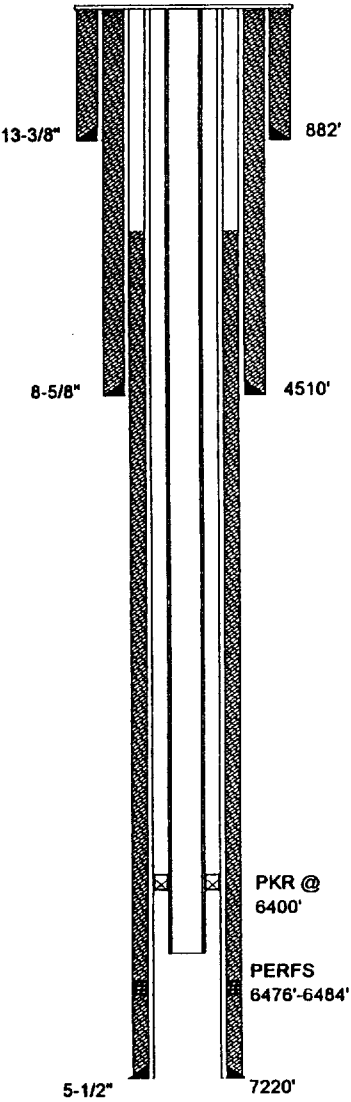
FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE:

13-3/8

INCHES

CEMENTED WITH:

1000

SX

TOC:

Surface

FEET DETERMINED BY:

Circulated

HOLE SIZE:

17-1/2

INCHES

2. INTERMEDIATE CASING

SIZE:

8-5/8

INCHES

CEMENTED WITH:

1450

SX

TOC:

Surface

FEET DETERMINED BY:

Circulated

HOLE SIZE:

12-1/4

INCHES

3. LONG STRING

SIZE:

5-1/2

INCHES

CEMENTED WITH:

800

SX

TOC:

2790

FEET DETERMINED BY:

CALCULATED

HOLE SIZE:

7-7/8

INCHES

4. INJECTION INTERVAL

6476

FEET TO:

6484

FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH:

7224

FEET

6. TUBING SIZE

SIZE:

2-7/8

INCHES

LINED WITH:

IPC 505 - PLASTIC COATING

SET IN A:

ARROW SET 1-XS, PKR

PACKER AT:

6400

FEET:

OTHER DATA

A.

IS THIS A NEW WELL DRILLED FOR INJECTION?

YES

X

NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED?

PRODUCING OIL AND GAS WELL

B.

NAME THE INJECTION FORMATION:

6400' SAND (BRUSHY CANYON)

C.

NAME THE FIELD OR POOL (IF APPLICABLE)

LUSK WEST (DELAWARE)

D.

HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NO

E.

GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

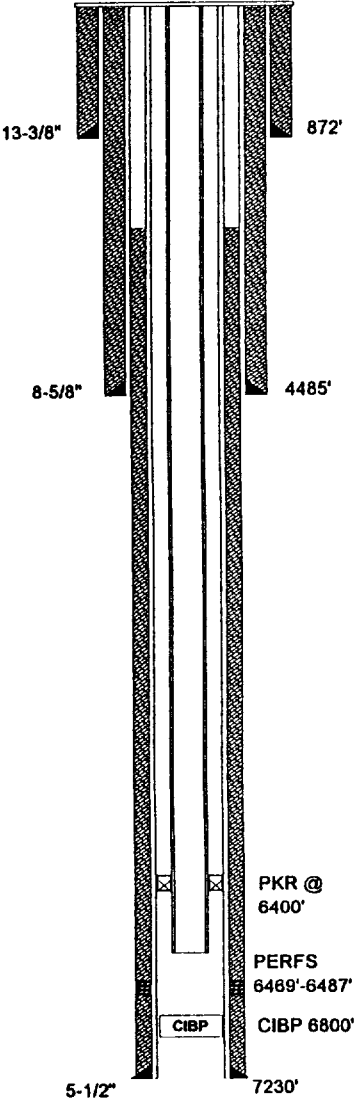
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL		

POSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 20 (I) 660' FEL & 2310' FSL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 3030 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6487 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

- A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL
- B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)
- C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)
- D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 7050'-7154, SET CIBP, WITH 4 SK. CMT. ON TOP AT 6800'
- E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:
- | | | | |
|----------------------------|---|-------------------------|---|
| 1. YATES 2600'-2800' | WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES | 5. STRAWN 11000'-11200' | LUSK STRAWN OIL |
| 2. DELAWARE 4600'-7100' | W. LUSK DELAWARE
LUSK DELAWARE | 6. ATOKA 11200'-11400' | LUSK ATOKA GAS |
| 3. BONE SPRING 8200'-8950' | WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING | 7. MORROW 11500'-12000' | LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS |
| 4. WOLF CAMP 10100'-10700' | LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL | | |

POSED INJECTION WELL DATA SHEET

OPERATOR:SHACKELFORD OIL CO.

LEASE:MOBIL FEDERAL

WELL NO1

1650' FNL & 330' FWL

SEC-21

T-19-S

R-32-E

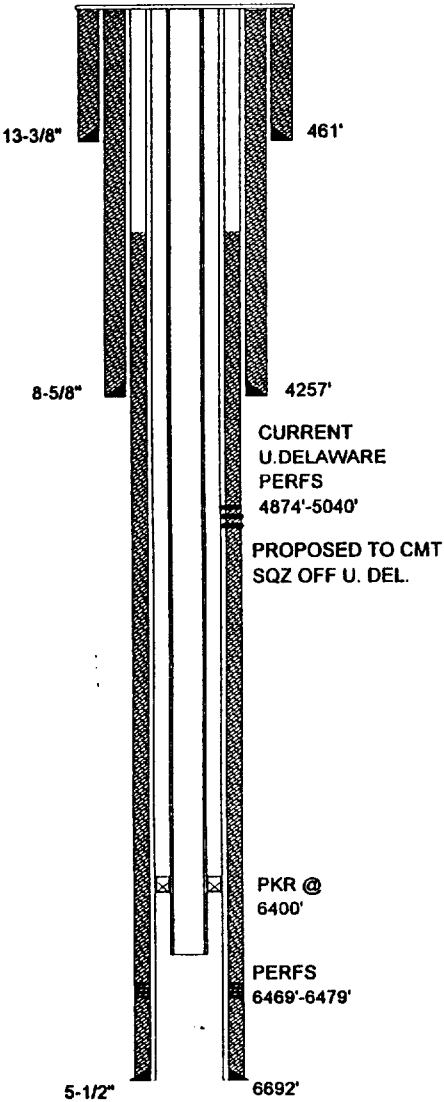
FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE:13-3/8INCHESCEMENTED WITH:475SX

TOC:SurfaceFEET DETERMINED BY:Circulated

HOLE SIZE:17-1/2INCHES

2. INTERMEDIATE CASING

SIZE:8-5/8INCHESCEMENTED WITH:860SX

TOC:SurfaceFEET DETERMINED BY:Circulated

HOLE SIZE:12-1/4INCHES

3. LONG STRING

SIZE:5-1/2INCHESCEMENTED WITH:875SX

TOC:4248FEET DETERMINED BY:Temp. Survey

HOLE SIZE:7-7/8INCHES

4. INJECTION INTERVAL

6469FEET TO:6479FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH:6700FEET

6. TUBING SIZE

SIZE:2-7/8INCHESLINED WITH:IPC 505 - PLASTIC COATING

SET IN A:ARROW SET 1-XS, PKRPACKER AT:6400FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION?

YES

XNO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED?

PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION:

6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE)

LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE

YES4/92 PERFS 4904', 4984'-5006', 5012'-5040' CIBP @ 5183'

5/92 PERFS 4874'-4892' CIBP @ 4940', CURRENTLY PRODUCING FROM U. DELAWARE PERFS 4874'-4892'

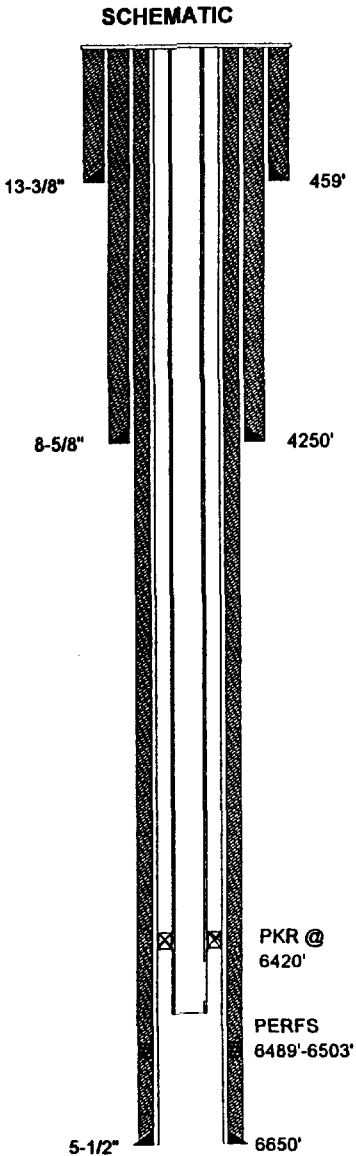
E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
	N.E. LUSK YATES		
	S. LUSK YATES	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE	7. MORROW 11500'-12000'	LUSK MORROW GAS
	LUSK DELAWARE		N.W. LUSK MORROW GAS
			N. LUSK MORROW GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING		
	LUSK BONE SPRING		
	S. LUSK BONE SPRING		
	E. LUSK BONE SPRING		
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL		
	E. LUSK WOLFCAMP OIL		
	S. LUSK WOLFCAMP OIL		

POSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: AMOCO FEDERAL

WELL NO 2 990' FNL & 1650' FWL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 100 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2250 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6489 FEET TO: 6503 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6420 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 3/92 PERFS 4856'-4867' W/CIBP @ 4995' CURRENTLY PRODUCING FROM

U. DELAWARE PERFS 4856'-4867' PLAN TO SQZ OFF U. DELAWARE CONVERT TO WIW IN 6469'-6503' PERFS

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

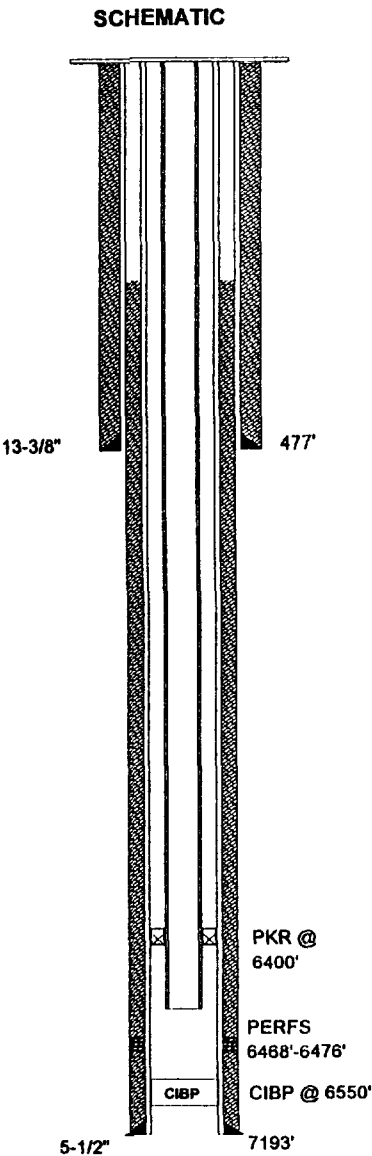
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

POSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 4 1650' FWL & 2310' FSL SEC-21 T-19-S R-32-E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2620 SX

TOC: Surface FEET DETERMINED BY: Circulated

NOTE: 1" PLUG TO 1336' CMT'D W/720 SXS TO CIRCULATE.

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6468 FEET TO: 6476 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

Parker & Parsley

Development L.P.

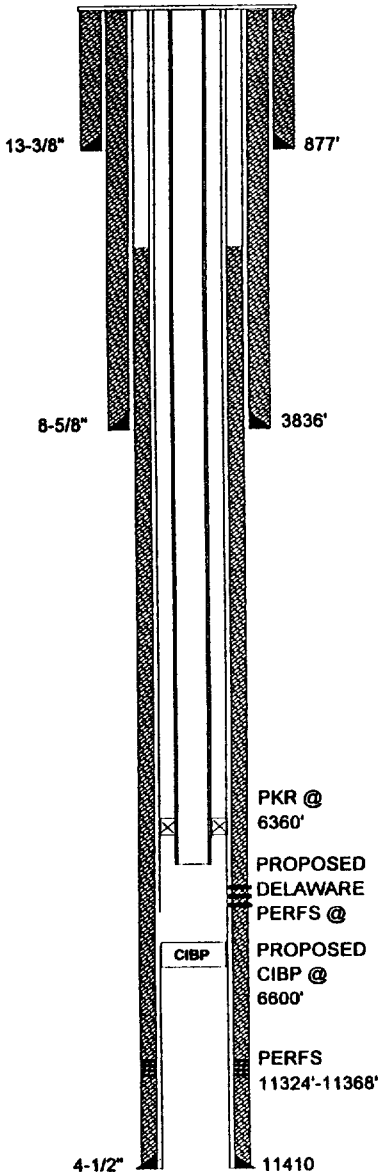
LEASE: SOUTHERN CALIFORNIA FEDERAL

OPERATOR:

WELL 4 1650' FSL & 990' FEL SEC-29 T-19-S R-32-E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2660 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 SX
TOC: 3400 FEET DETERMINED BY: SQZ HOLE @ 3400' W/35 SXS CMT
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6430 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 11449 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO CURRENT OIL AND GAS PODUCTION FROM STRAWN PERFS
11324'-11368'. PLAN TO SET CIBP @ 6600' W/5SXS CMT ON TOP & PERF DELAWARE @ 6430'-50' CONVERT TO WIW WELL.

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

- | | | |
|----------------------------|---|---|
| 1. YATES 2600'-2800' | WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES | 5. STRAWN 11000'-112 LUSK STRAWN OIL |
| 2. DELAWARE 4600'-7100' | W. LUSK DELAWARE
LUSK DELAWARE | 6. ATOKA 11200'-1140 LUSK ATOKA GAS |
| 3. BONE SPRING 8200'-8950' | WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING | 7. MORROW 11500'-12 LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS |
| 4. WOLF CAMP 10100'-1070 | LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL | |

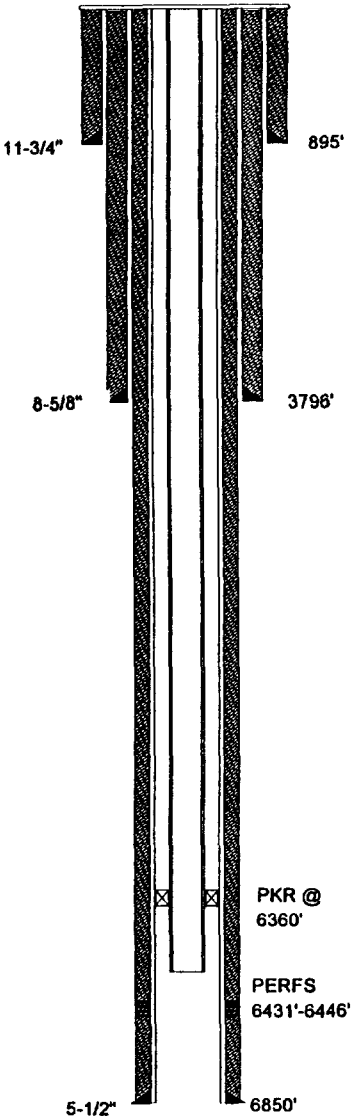
FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: S. A. BOWMAN FEDERAL

WELL NO 5 2310' FSL & 2160' FWL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1400 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1610 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6431 FEET TO: 6446 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6850 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

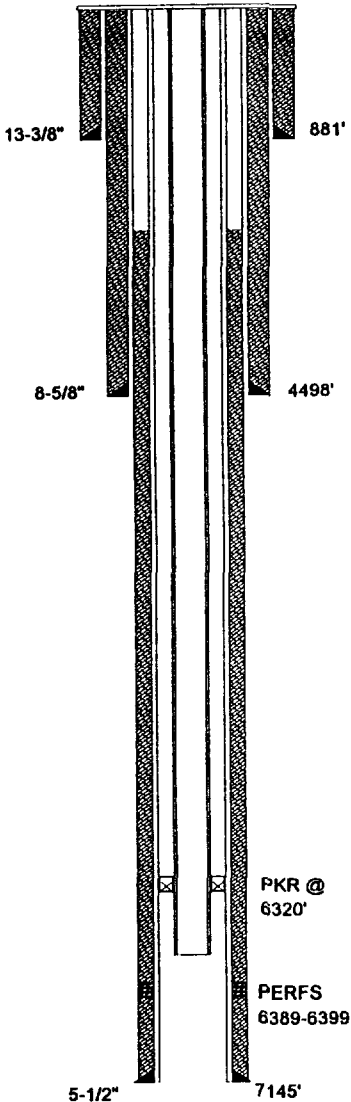
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

POSED INJECTION WELL DATA SHF

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 6 990' FSL & 660' FWL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2600 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 940 SX
TOC: 4200 FEET DETERMINED BY: CALCULATED
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6389 FEET TO: 6399 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6320 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

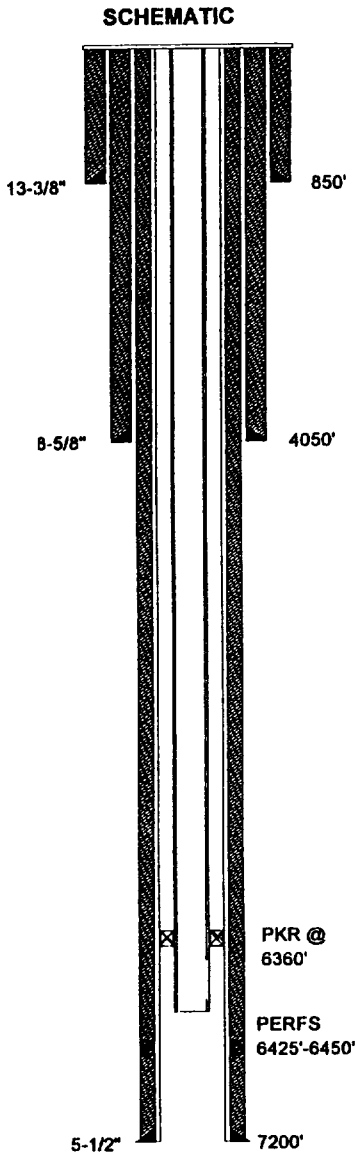
E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL		

POSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 10 1980' FNL & 1980' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

POSED INJECTION WELL DATA SHEET

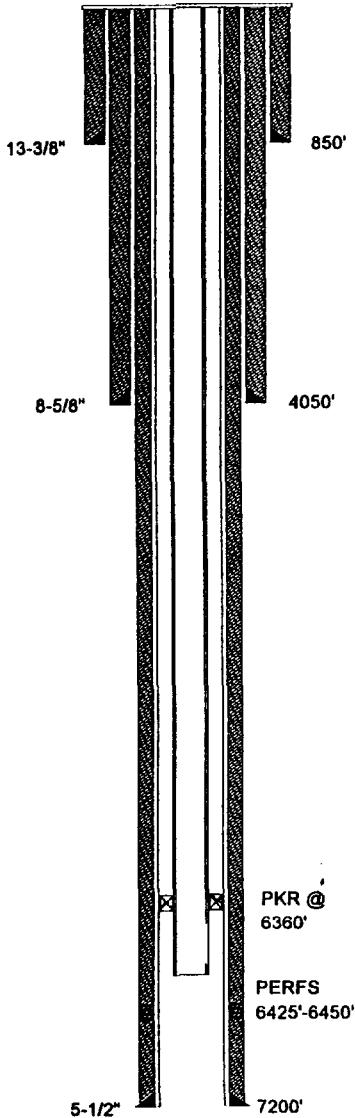
Parker & Parsley
Development L.P.

LEASE: SOUTHERN CALIFORNIA FEDERAL

OPERATOR:

WELL NO 11 660' FNL & 660' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? ☒ YES ☐ NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

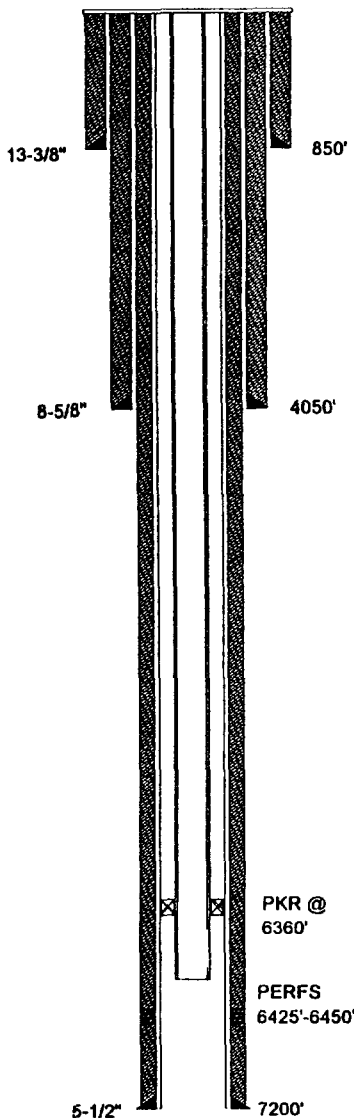
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL		

USED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 12 1980' FEL & 660' FSL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

MAP OF AREA

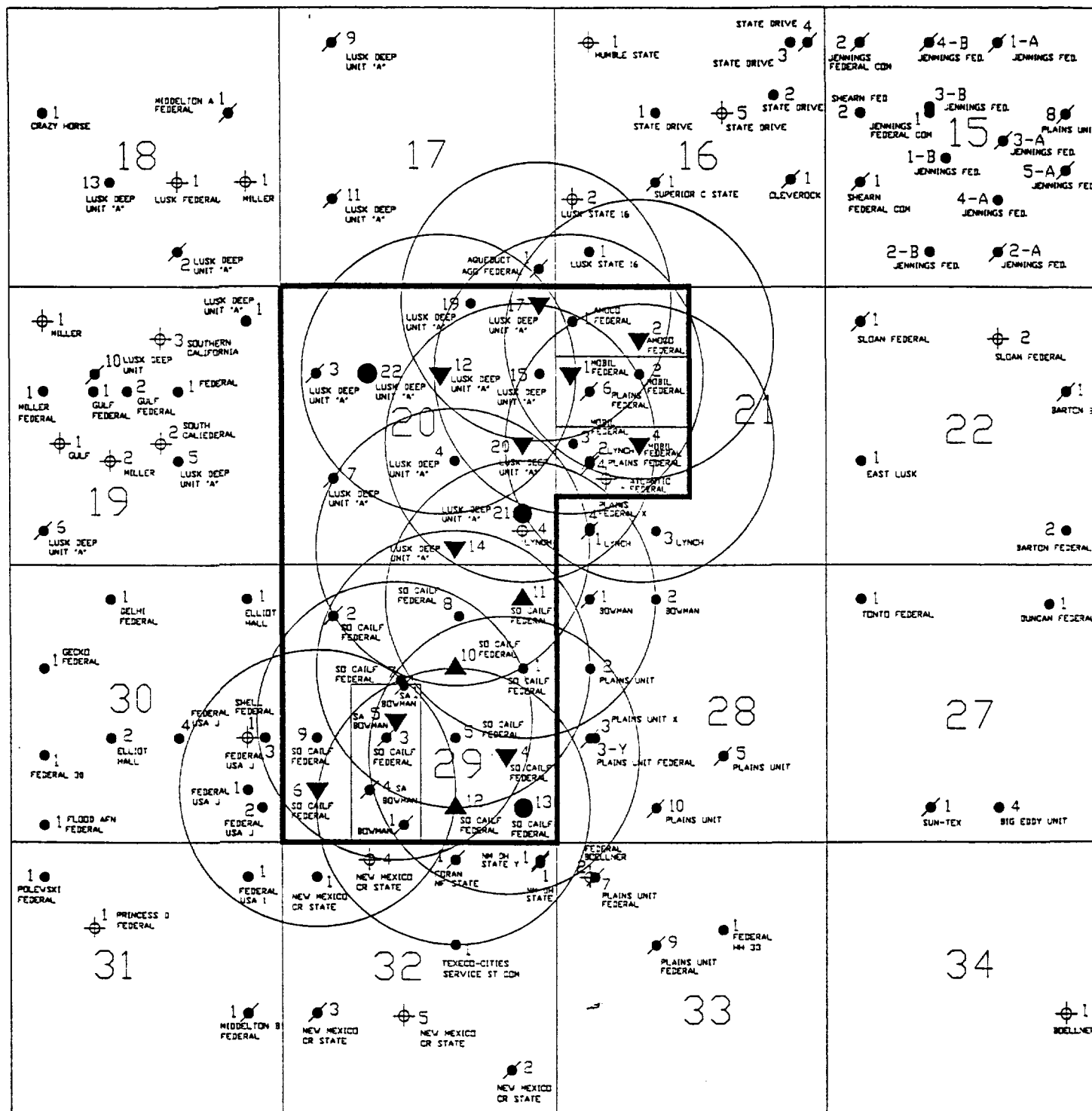
SECTION V

LEA COUNTY, NEW MEXICO

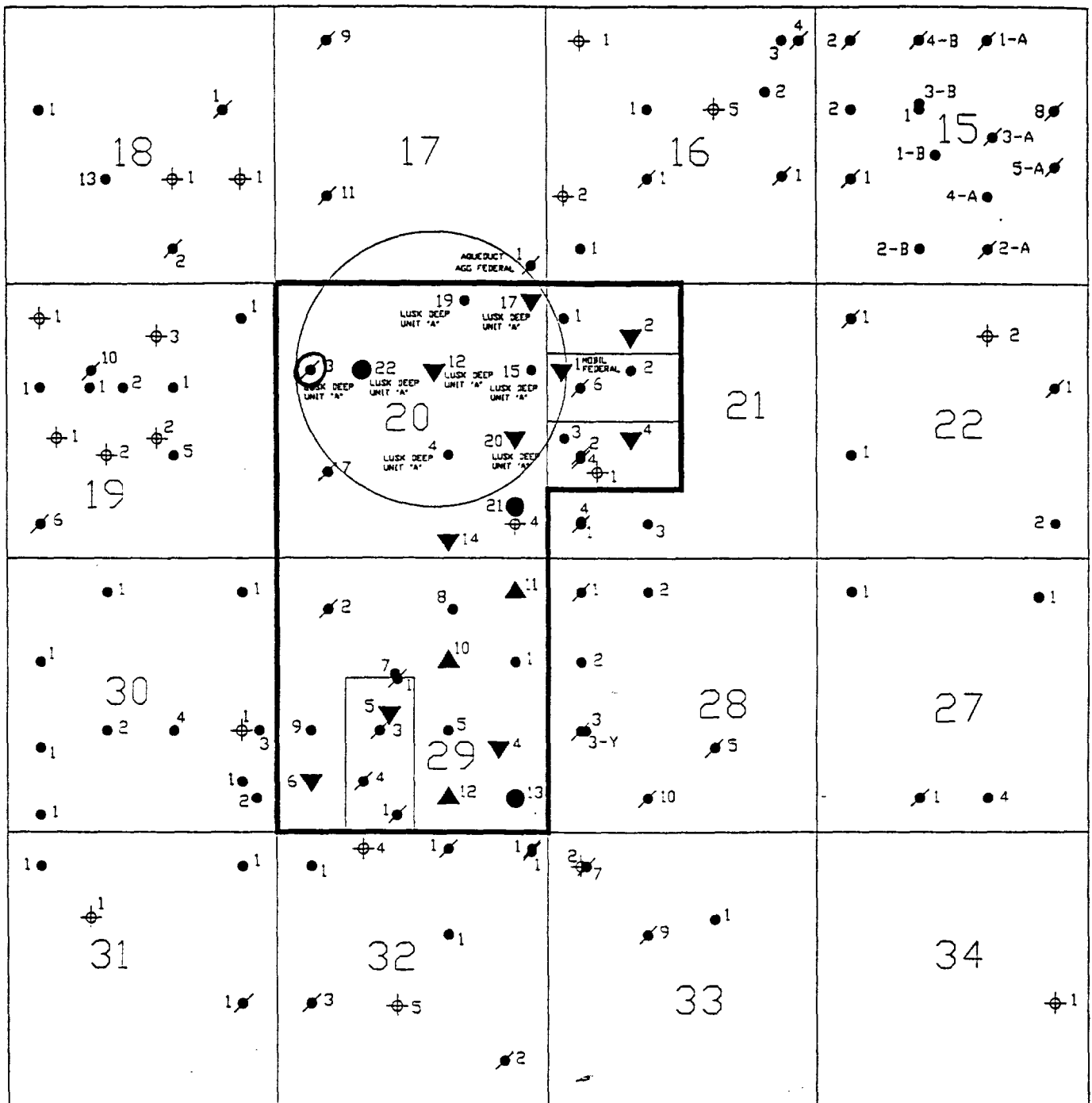
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LUSK WEST (DELAWARE), LEA COUNTY, NEW MEXICO

LAND PLAT OF TRACTS & LEASES COVERING UNIT AREA



- PRODUCER
- ▼ CONVERT TO INJECTOR
- ⊙ PLUGGED & ABANDONED
- ▲ DRILLED INJECTOR
- ⊕ DRY HOLE
- DRILLED PRODUCER



PROPOSED INJECTION WELL DATA SHEET

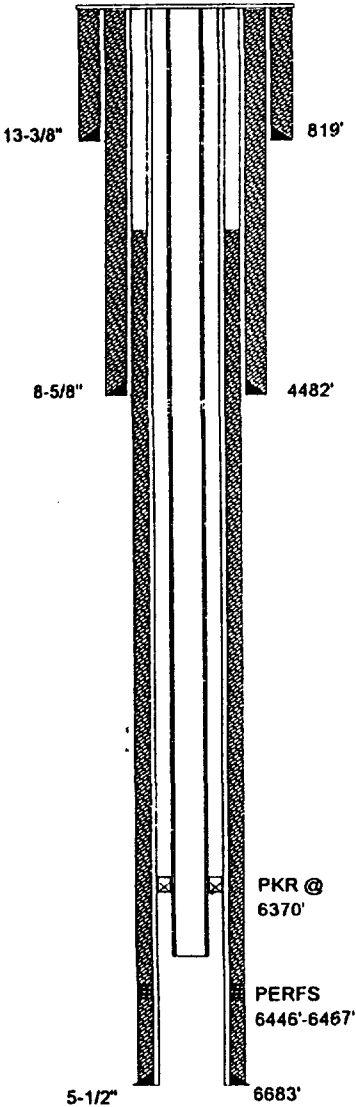
Parker & Parsley
Development L.P.

LEASE: LUSK DEEP UNIT "A"

OPERATOR:

WELL NO 12 1660' FNL & 2300' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 500 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1650 SX
TOC: 1350 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 2710 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6446 FEET TO: 6467 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6370 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

COMMENT: SPUD WELL 11/2/74. P&A WELLBORE 8/27/86. RE-ENTRY 4/12/89

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)
C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)
D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 8839'-8914' CIBP AT 8800' W/5, SX, CMT/TOP, PERFS 10680'-10708',
CIBP AT 10640' W/5, SX, CMT/TOP, PERFS 11460'-11581', CIBP AT 11430' W/5, SX, CMT/TOP, CIBP AT 12212' W/20, SX, CMT/TOP

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:
1. YATES 2600'-2800' WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES
2. DELAWARE 4600'-7100' W. LUSK DELAWARE
LUSK DELAWARE
3. BONE SPRING 8200'-8950' WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING
4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL
5. STRAWN 11000'-11200' LUSK STRAWN OIL
6. ATOKA 11200'-11400' LUSK ATOKA GAS
7. MORROW 11500'-12000' LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS

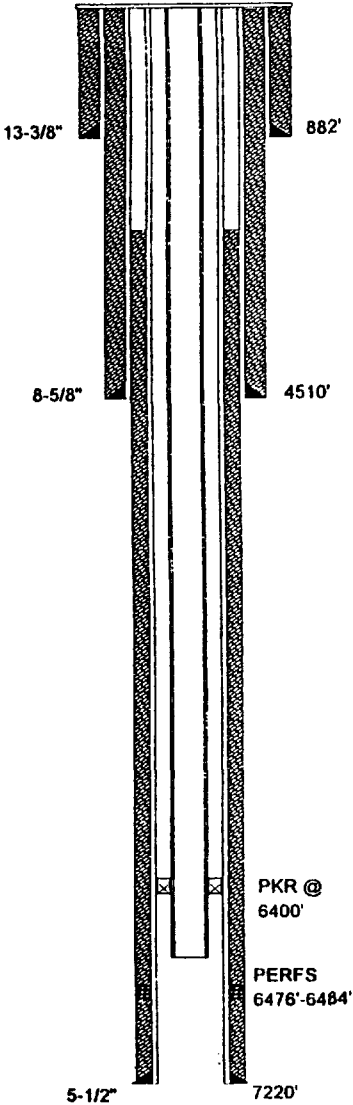
PROPOSED INJECTION WELL DATA SHEET

Parker & Parsley
Development L.P.

OPERATOR: LEASE: LUSK DEEP UNIT "A"

WELL NO 17 330' FNL & 330' FEL 330' FNL & 330' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1450 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 2790 FEET DETERMINED BY: CALCULATED
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6476 FEET TO: 6484 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7224 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

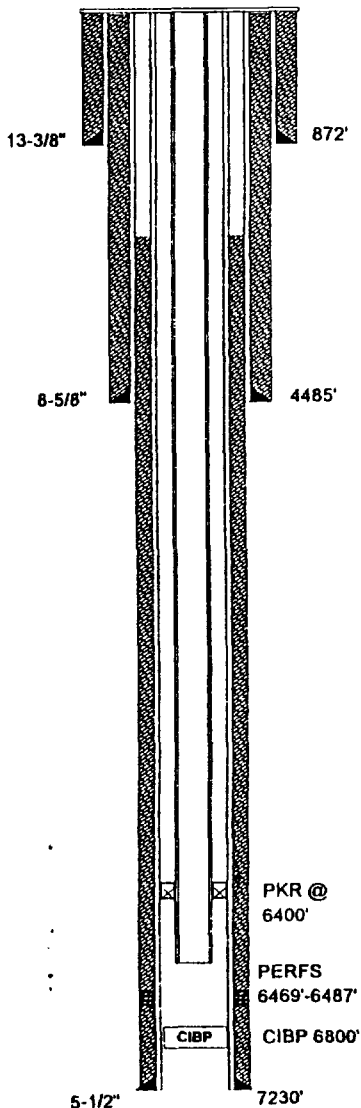
FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL
TABULATION OF WELL DATA

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 20 660' FEL & 2310' FSL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 3030 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6487 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 7050'-7154, SET CIBP, WITH 4 SK. CMT. ON TOP AT 6800'

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

WELL DATA SHEET

Parker & Parsley
Development L.P.

LUSK DEEP UNIT "A"

OPERATOR

LEASE

4

1980' FSL & 1980' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE: 10/5/62 RE-ENTRY 3/13/88

TABULAR DATA

SCHEMATIC

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1180 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 2365 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

NOTE: 6/88 CUT AND PULLED 7185' OF 4-1/2 CSG

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 sx

TOC: 10000 FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. PRODUCTION STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 500 sx

TOC: 5595 FEET DETERMINED BY: Calculated

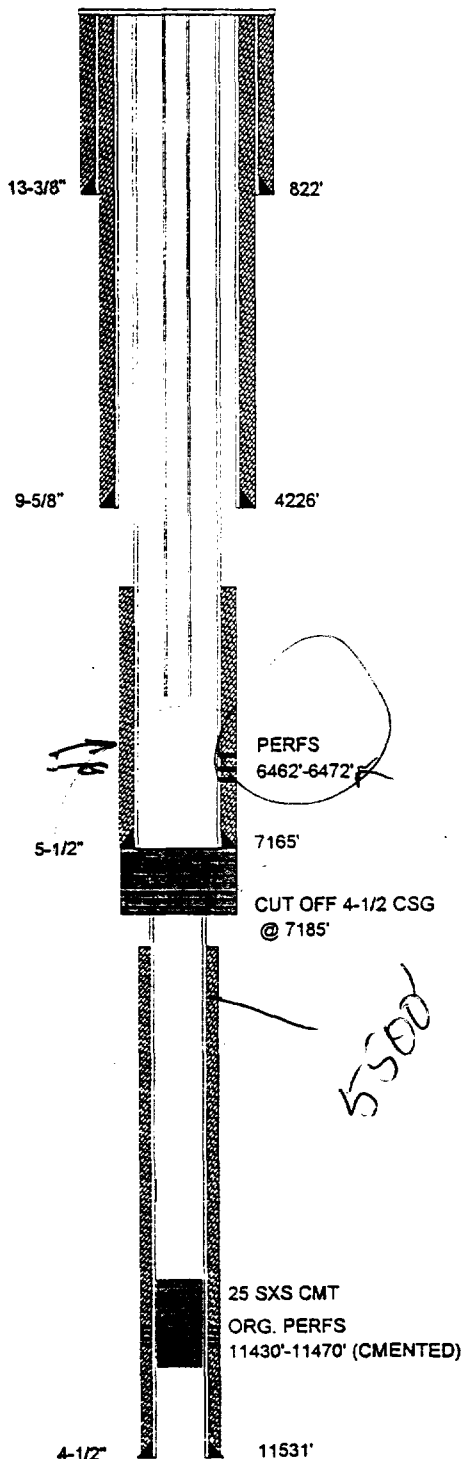
HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11531 FEET

6. PERFORATIONS

6462 FEET TO: 6472 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

5500
1600
8100

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

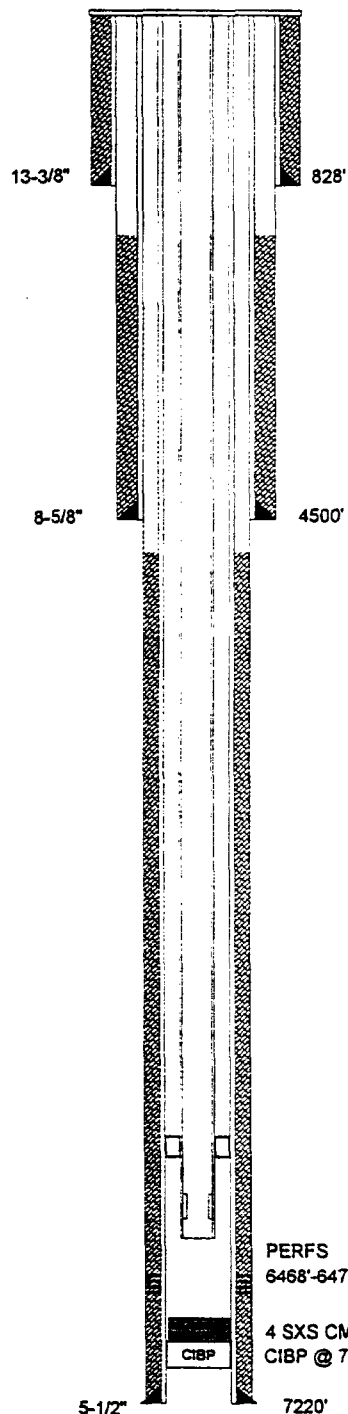
OPERATOR

LEASE

15	1651' FNL & 330' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL:	PRODUCING OIL AND GAS WELL	SPUD DATE:	11/22/88
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SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 SX

TOC: 2370 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 4690 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6478 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

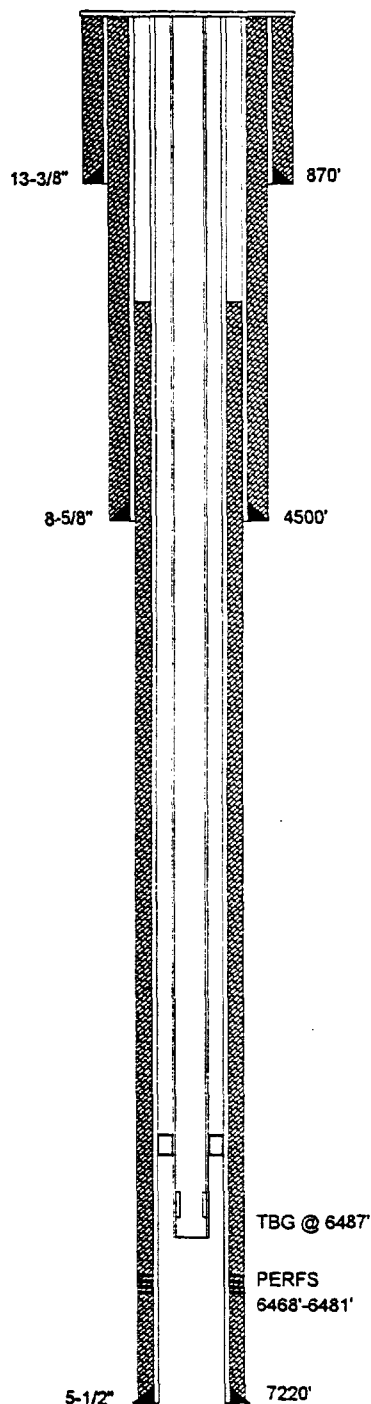
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP UNIT "A"

OPERATOR		LEASE		
19	330' FNL & 1656' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 1/26/90		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 sx
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 3230 sx
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 900 sx
 TOC: 1630 FEET DETERMINED BY: Temp. Survey
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6481 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP UNIT "A"

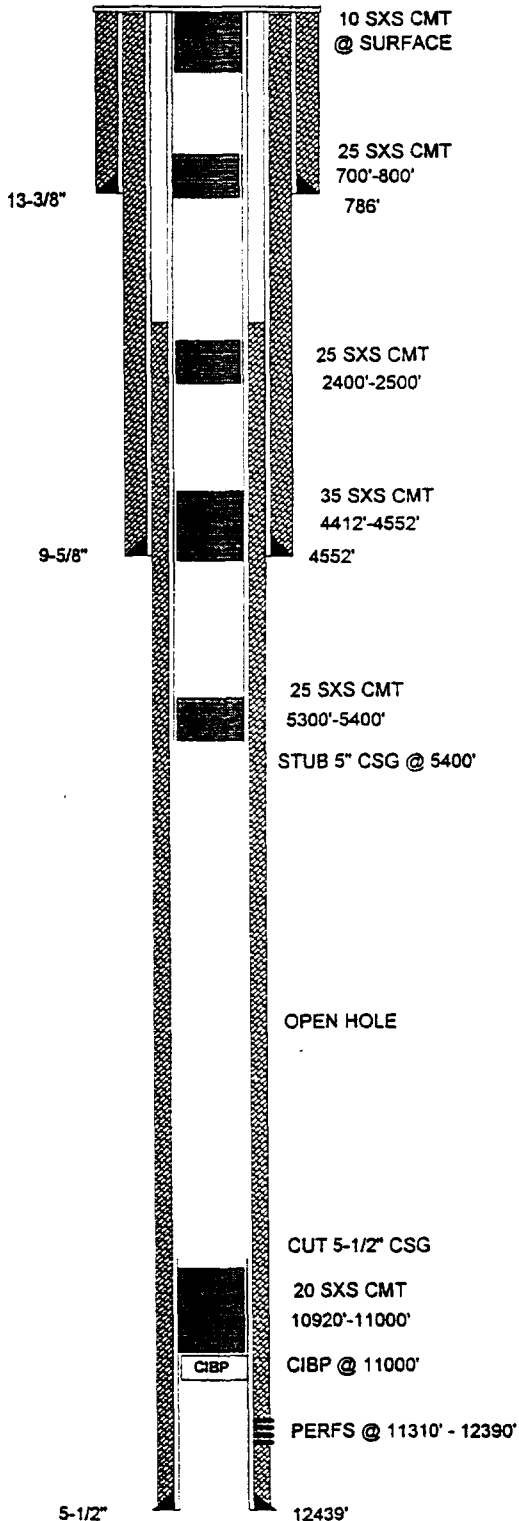
OPERATOR

LEASE

3	1650' FNL & 660' FWL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL: PLUGGED & ABANDONED SPUD DATE: 7/22/61

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 2730 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 382 SX
 TOC: 10605 FEET DETERMINED BY: Temp. Survey
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12623 FEET

5. PERFORATIONS

11310 FEET TO: 12390 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

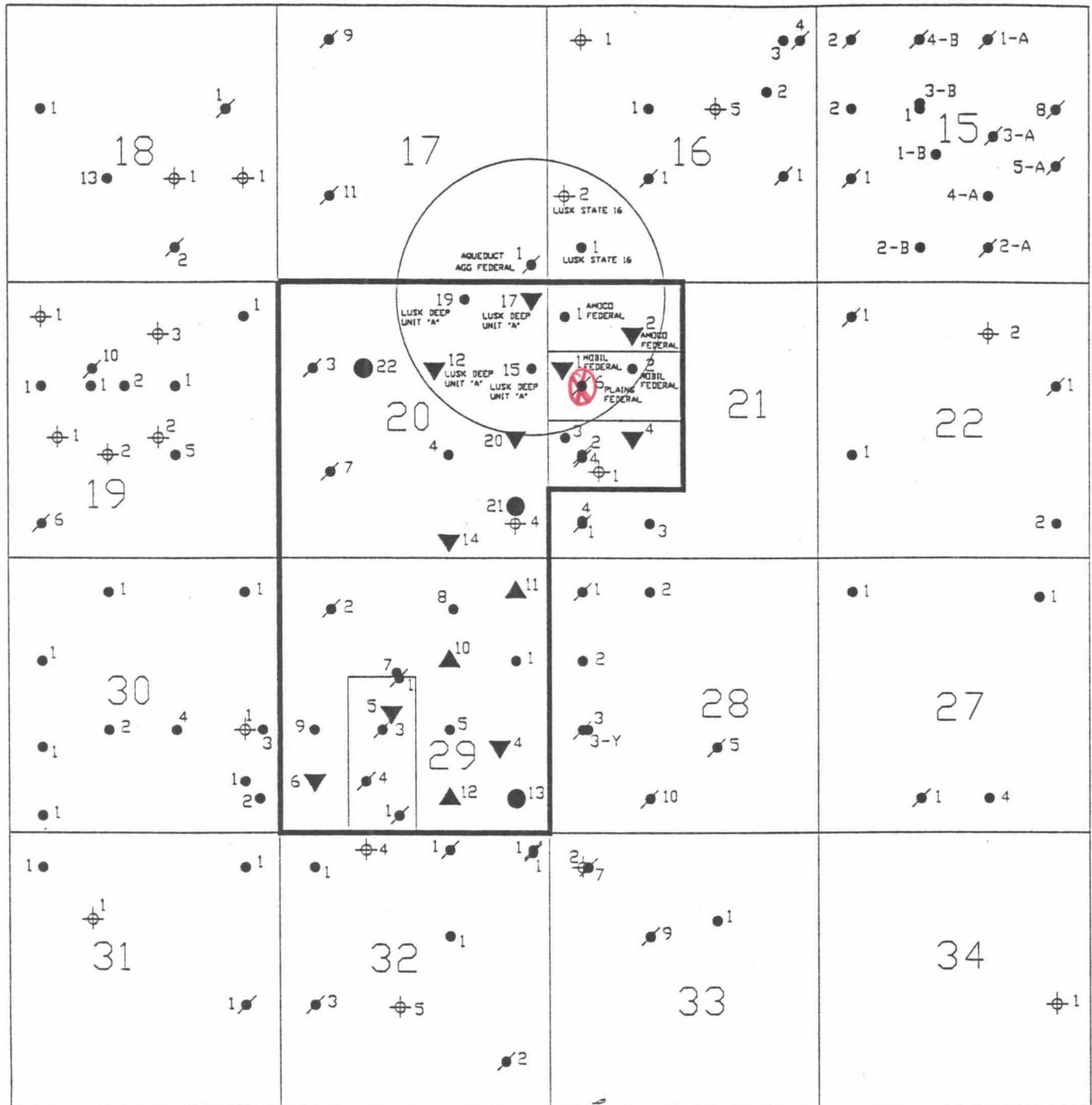
APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SECTION V



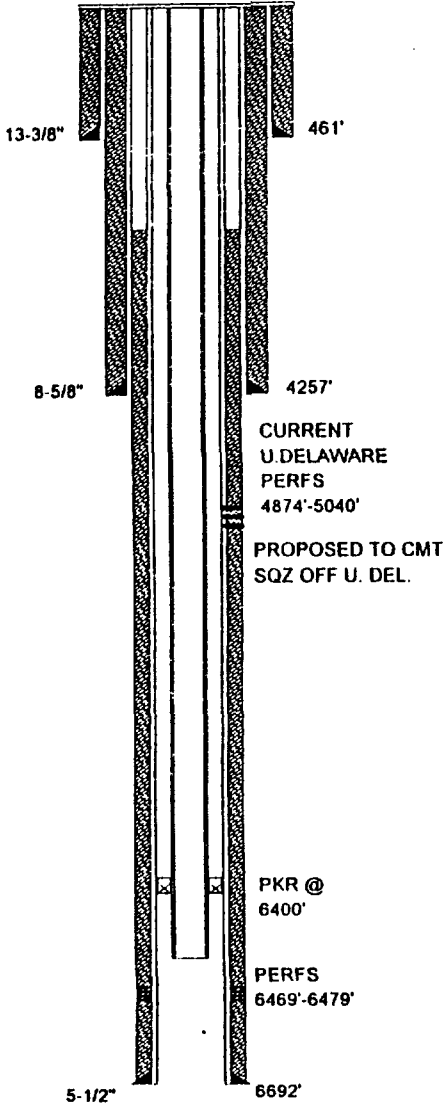
PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 1 FOOTAGE LOCATION 1650' FNL & 330' FWL SECTION SEC-21 TOWNSHIP T-19-S RANGE R-32-E

SCHEMATIC

WELL CONSTRUCTION DATA



1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 860 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 875 SX
TOC: 4248 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6479 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 4/92 PERFS 4904', 4984'-5006', 5012'-5040' CIBP @ 5183'
5/92 PERFS 4874'-4892' CIBP @ 4940', CURRENTLY PRODUCING FROM U. DELAWARE PERFS 4874'-4892'

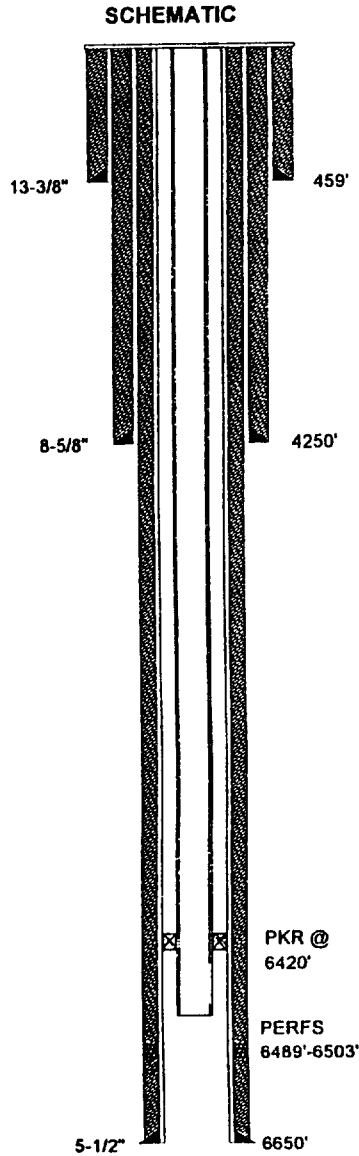
E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: AMOCO FEDERAL

WELL NO 2 990' FNL & 1650' FWL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 100 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2250 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6489 FEET TO: 6503 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6420 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO X

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 3/92 PERFS 4856'-4867' WCIBP @ 4995' CURRENTLY PRODUCING FROM U. DELAWARE PERFS 4856'-4867' PLAN TO SQZ OFF U. DELAWARE CONVERT TO WIW IN 6469'-6503' PERFS

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

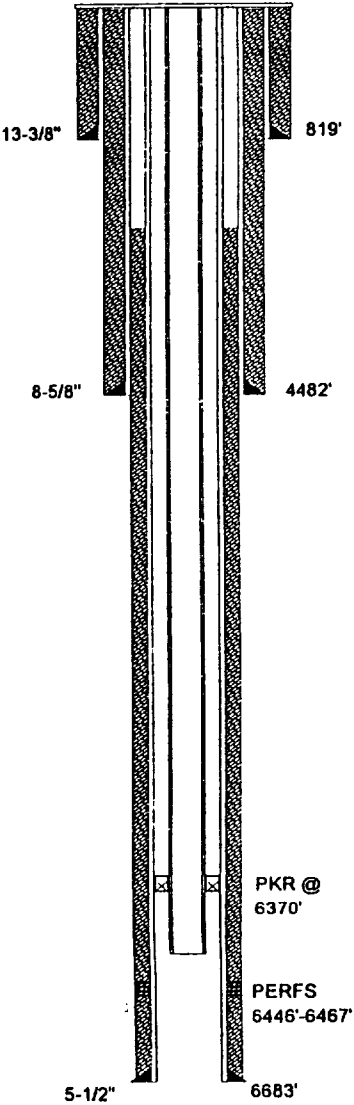
PROPOSED INJECTION WELL DATA SHEET

Parker & Parsley
Development L.P.

LEASE: LUSK DEEP UNIT "A"

OPERATOR: WELL NO 12 1660' FNL & 2300' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 500 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1650 SX
TOC: 1350 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 2710 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6446 FEET TO: 6467 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6370 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

COMMENT: SPUD WELL 11/2/74. P&A WELLBORE 8/27/86. RE-ENTRY 4/12/89

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 8839'-8914' CIBP AT 8800' W/5, SX, CMT/TOP, PERFS 10680'-10708',
CIBP AT 10640' W/5, SX, CMT/TOP, PERFS 11460'-11581', CIBP AT 11430' W/5, SX, CMT/TOP, CIBP AT 12212' W/20, SX, CMT/TOP

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR:

Parker & Parsley
Development L.P.

LEASE:

LUSK DEEP UNIT "A"

WELL NO

17

330' FNL & 330' FEL

SEC-20

T-19-S

R-32-E

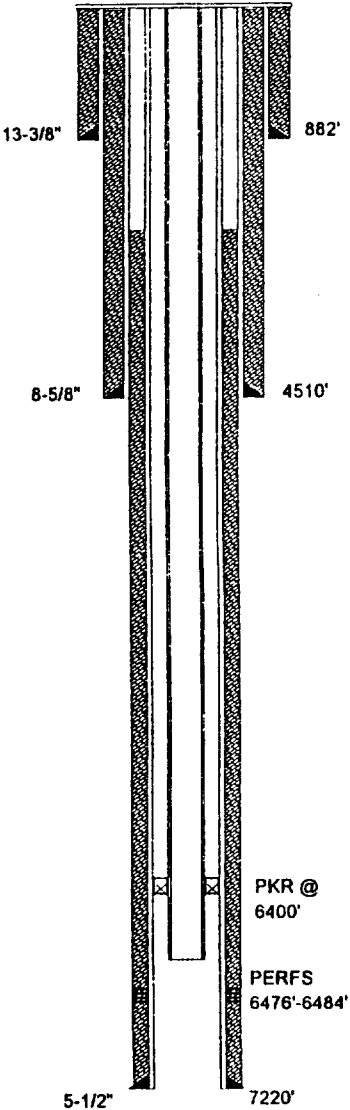
FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE:

13-3/8

INCHES

CEMENTED WITH:

1000

SX

TOC:

Surface

FEET DETERMINED BY:

Circulated

HOLE SIZE:

17-1/2

INCHES

2. INTERMEDIATE CASING

SIZE:

8-5/8

INCHES

CEMENTED WITH:

1450

SX

TOC:

Surface

FEET DETERMINED BY:

Circulated

HOLE SIZE:

12-1/4

INCHES

3. LONG STRING

SIZE:

5-1/2

INCHES

CEMENTED WITH:

800

SX

TOC:

2790

FEET DETERMINED BY:

CALCULATED

HOLE SIZE:

7-7/8

INCHES

4. INJECTION INTERVAL

6476

FEET TO:

6484

FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH:

7224

FEET

6. TUBING SIZE

SIZE:

2-7/8

INCHES

LINED WITH:

IPC 505 - PLASTIC COATING

SET IN A:

ARROW SET 1-XS, PKR

PACKER AT:

6400

FEET:

OTHER DATA

A.

IS THIS A NEW WELL DRILLED FOR INJECTION?

YES

X

NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED?

PRODUCING OIL AND GAS WELL

B.

NAME THE INJECTION FORMATION:

6400' SAND (BRUSHY CANYON)

C.

NAME THE FIELD OR POOL (IF APPLICABLE)

LUSK WEST (DELAWARE)

D.

HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NO

E.

GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

SHACKELFORD OIL

PLAINS UNIT

OPERATOR

LEASE

6

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

7/10/96

TABULAR DATA

SCHEMATIC

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 275 SX

TOC: 3335 FEET DETERMINED BY: Calculated

HOLE SIZE: 11 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 SX

TOC: 10714 FEET DETERMINED BY: Calculated

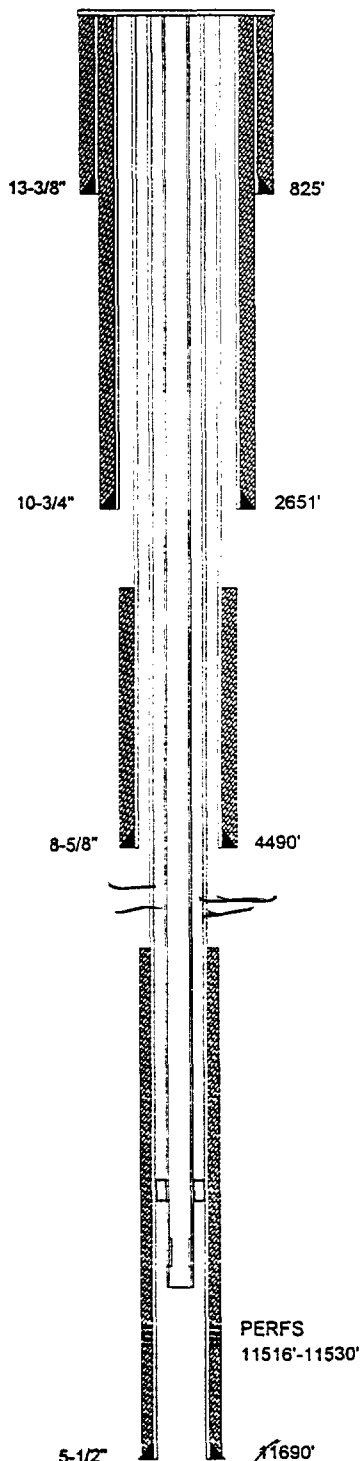
HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11690 FEET

6. PERFORATIONS

11516 FEET TO: 11530 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

RAY WESTALL OPERATING CORP.

LUSK "16" STATE

OPERATOR

LEASE

1

660' FSL & 660' FWL

SEC-16

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

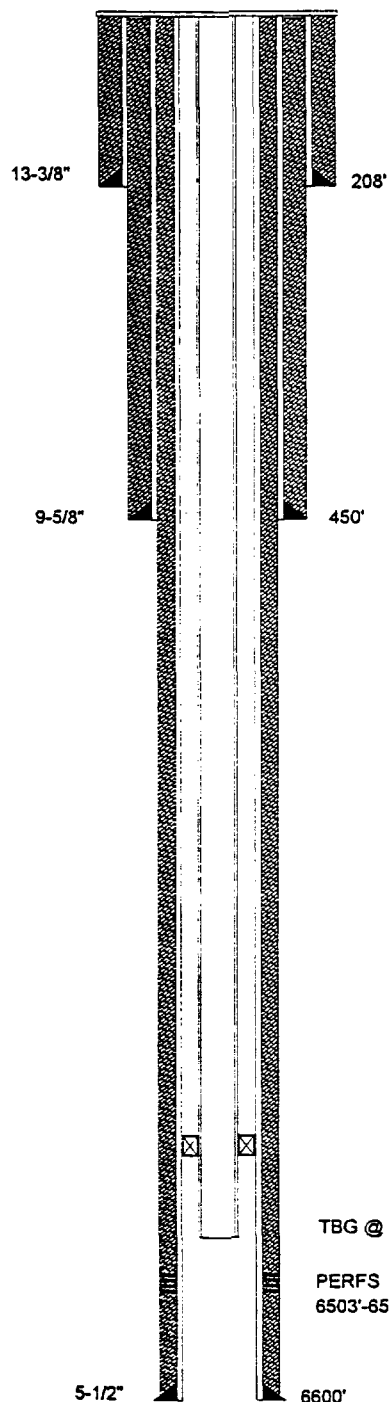
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/9/62

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 125 sxTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 500 sxTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 3475 sxTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 6600 FEET

5. PERFORATIONS

6503 FEET TO: 6509 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

AMOCO FEDERAL

OPERATOR

LEASE

1

660' FNL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

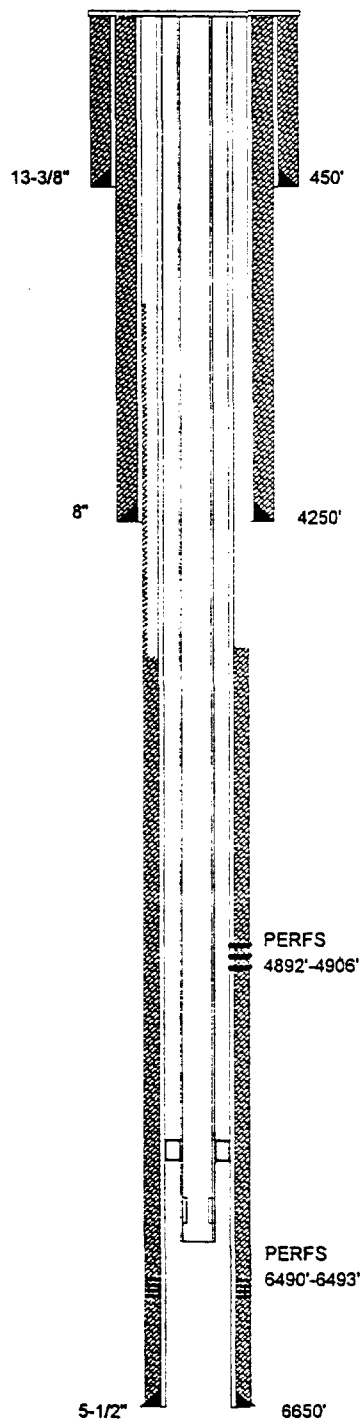
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

9/23/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8 INCHES CEMENTED WITH: 2150 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 525 SX

TOC: 4550 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6650 FEET

5. PERFORATIONS

6490 FEET TO: 6493 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

2

1650' FNL & 1650' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

8/30/88

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 165 sx

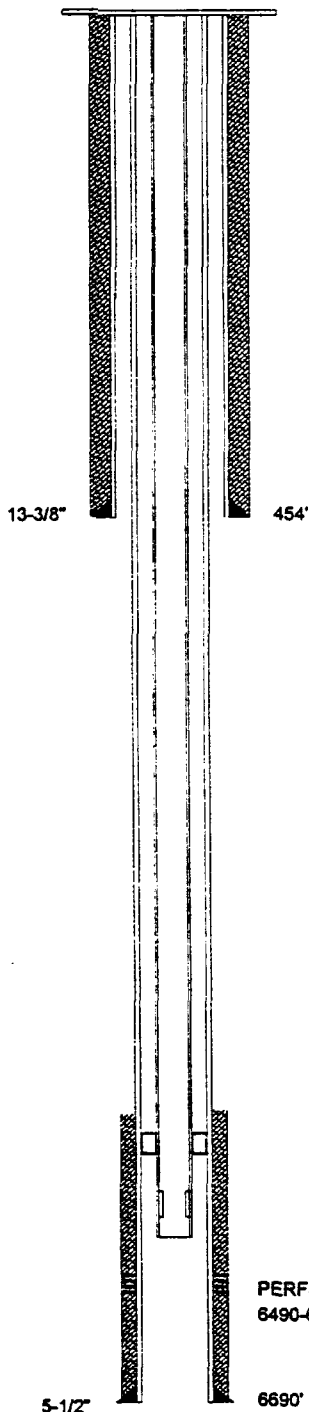
TOC: 5997 FEET DETERMINED BY: Calculation

HOLE SIZE: 11 & 7-7/8 INCHES

4. TOTAL DEPTH: 6690 FEET

5. PERFORATIONS

6490 FEET TO: 6495 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"



FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

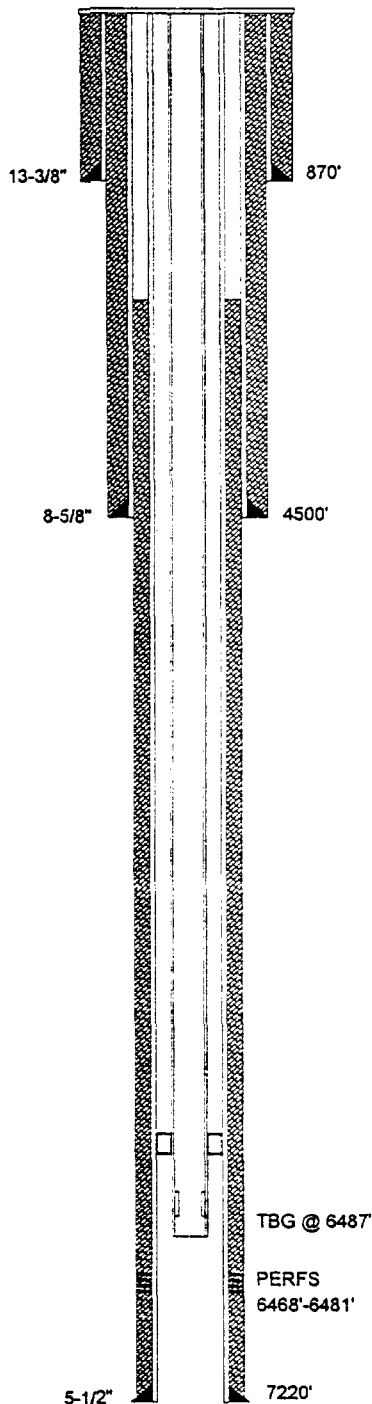
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP UNIT "A"

OPERATOR		LEASE		
19	330' FNL & 1656' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 1/26/90		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 sx
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 3230 sx
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 900 sx
 TOC: 1630 FEET DETERMINED BY: Temp. Survey
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6481 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

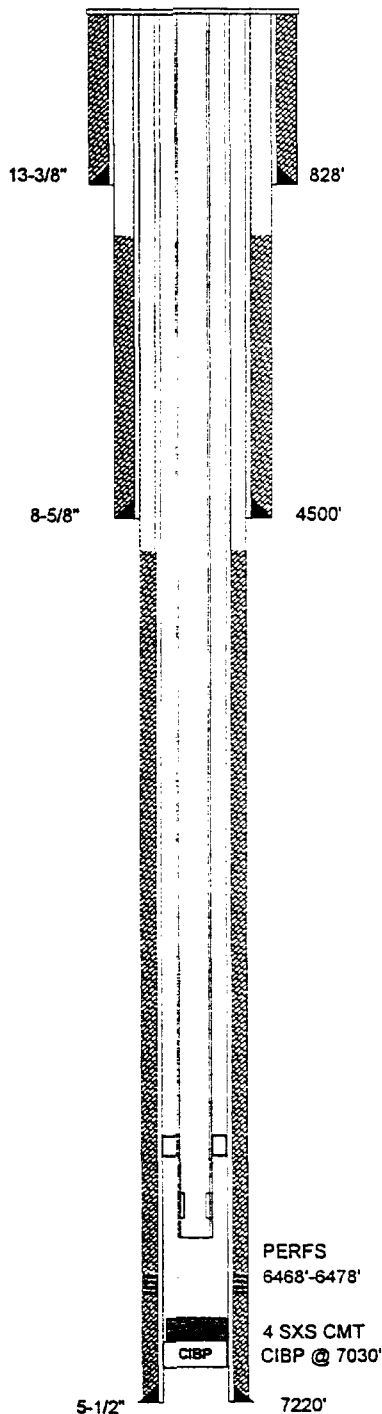
WELL DATA SHEET

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

OPERATOR		LEASE		
15	1651' FNL & 330' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 11/22/88		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 sx

TOC: 2370 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 sx

TOC: 4690 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6478 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

YATES HARVEY E

LUSK "16" STATE

OPERATOR

LEASE

2

1650' FSL & 330' FWL

SEC-16

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

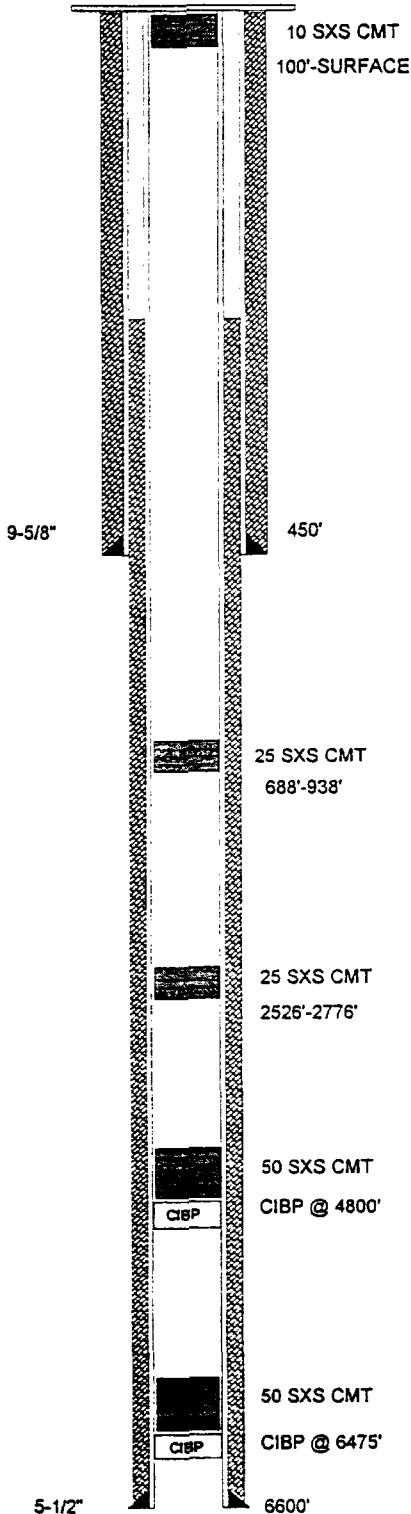
TYPE OF WELL:

DRY HOLE

SPUD DATE:

7/30/89

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 3475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6600 FEET

5. PERFORATIONS

6506 FEET TO: 6506 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

MARBOB ENERGY CORP.

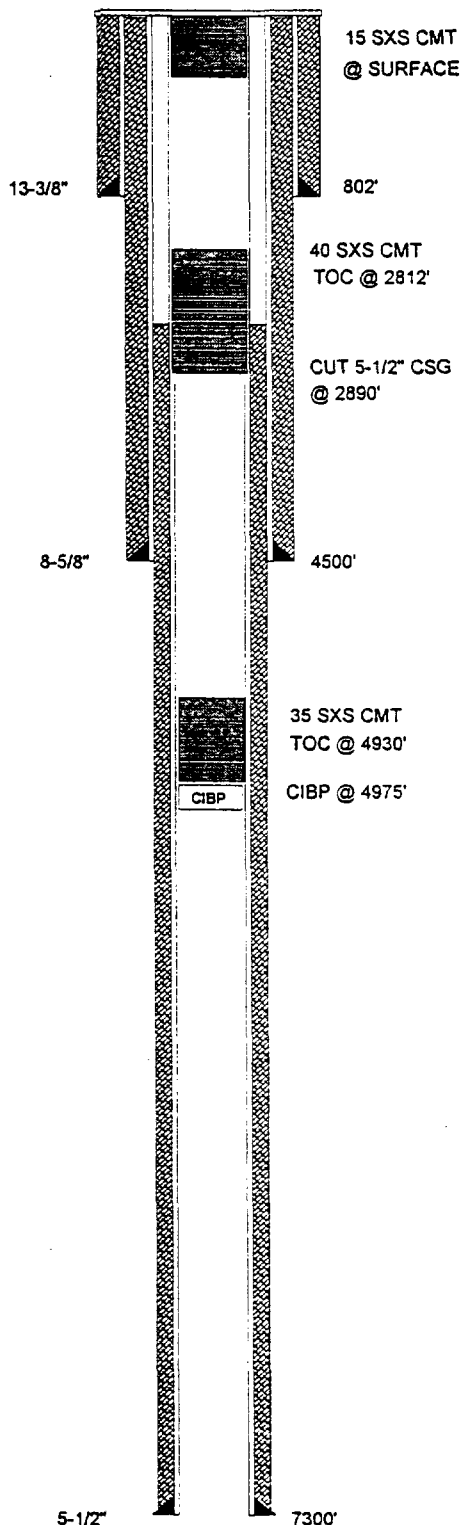
AQUEDUCT AGG FEDERAL

OPERATOR

LEASE

1	330' FSL & 330' FEL	SEC-17	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: <u>PLUGGED & ABANDONED</u>		SPUD DATE: <u>6/11/89</u>		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 800 S

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2950 S

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 975 S

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7300 FEET

5. PERFORATIONS

6486 FEET TO: 6498 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VI

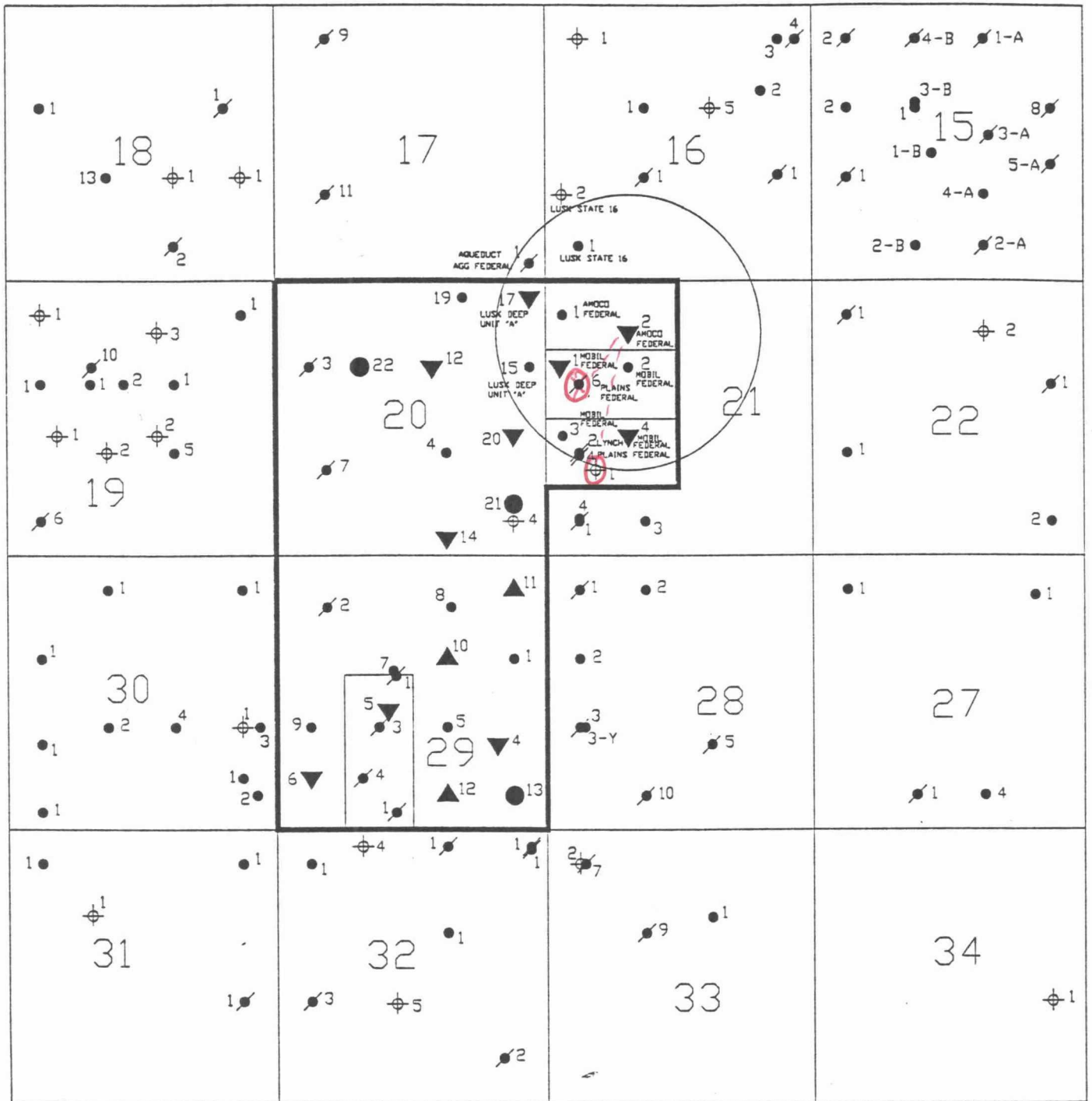
APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SECTION V



81
~~1530~~
~~990~~
~~940~~

990' FWL - 1650' FWL

1930' ASL - 660' FWL

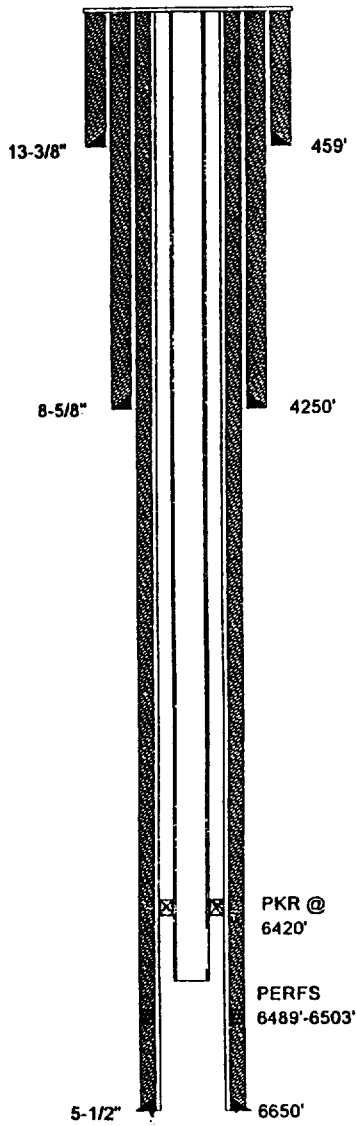
2360' - 990' = 2560' between

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: AMOCO FEDERAL

WELL NO 2 990' FNL & 1650' FWL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 100 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES
NOTE: PULLED 3088' 8-8/5" CSG

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2250 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES
NOTE: PUMPED 1575 SXS CMT FROM TOPSIDE

4. INJECTION INTERVAL 6489 FEET TO: 6503 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6420 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 3/92 PERFS 4856'-4867' W/CIBP @ 4995' CURRENTLY PRODUCING FROM

U. DELAWARE PERFS 4856'-4867' PLAN TO SQZ OFF U. DELAWARE CONVERT TO WIW IN 6469'-6503' PERFS

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

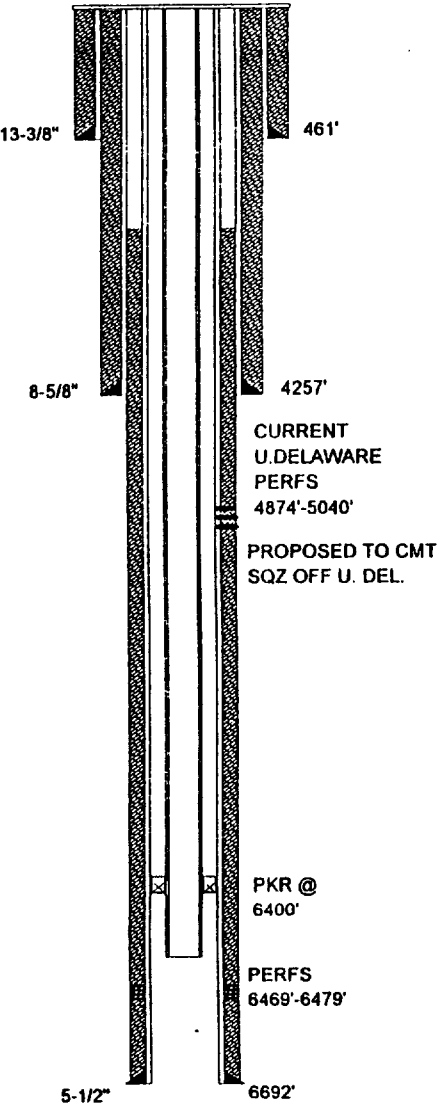
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 1 1650' FNL & 330' FWL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 860 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 875 SX
TOC: 4248 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6479 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO X
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 4/92 PERFS 4904', 4984'-5006', 5012'-5040' CIBP @ 5183'
5/92 PERFS 4874'-4892' CIBP @ 4940', CURRENTLY PRODUCING FROM U. DELAWARE PERFS 4874'-4892'

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR:

Parker & Parsley
Development L.P.

LEASE:

LUSK DEEP UNIT "A"

WELL NO

17

330' FNL & 330' FEL

SEC-20

T-19-S

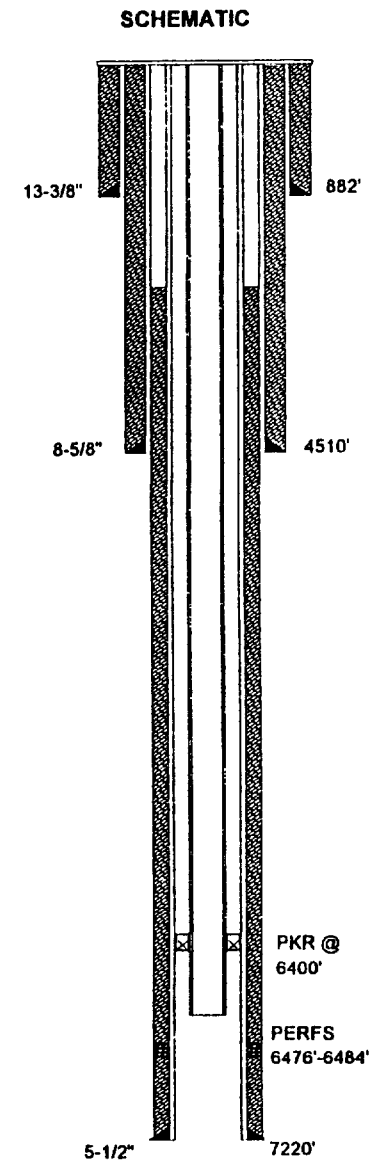
R-32-E

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHESCEMENTED WITH: 1000 SX

TOC: SurfaceFEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: 8-5/8 INCHESCEMENTED WITH: 1450 SX

TOC: SurfaceFEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHESCEMENTED WITH: 800 SX

TOC: 2790FEET DETERMINED BY: CALCULATED

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6476 FEET TO: 6484 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 7224 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHESLINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKRPACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YESNO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES

5. STRAWN 11000'-11200'LUSK STRAWN OIL

2. DELAWARE 4600'-7100'W. LUSK DELAWARE
LUSK DELAWARE

6. ATOKA 11200'-11400'LUSK ATOKA GAS

3. BONE SPRING 8200'-8950'WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING

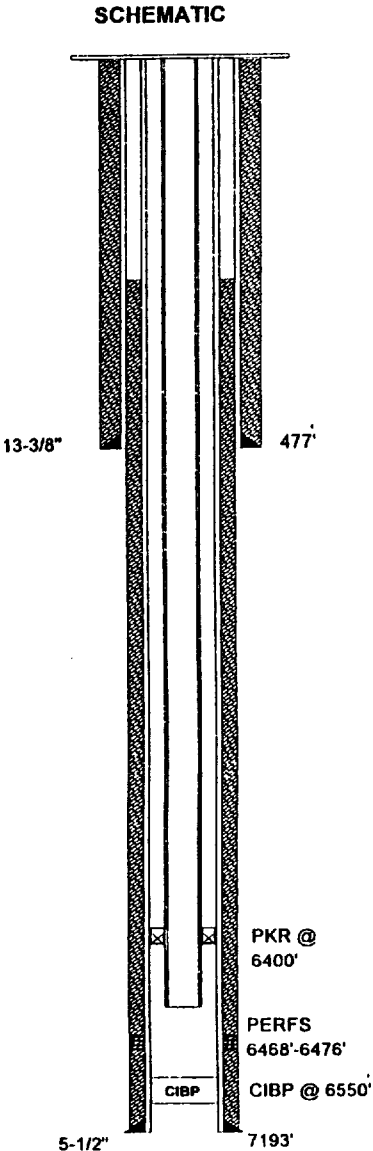
7. MORROW 11500'-12000'LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS

4. WOLF CAMP 10100'-10700'LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 4 FOOTAGE LOCATION 1650' FWL & 2310' FSL SEC-21 T-19-S R-32-E



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2620 SX

TOC: Surface FEET DETERMINED BY: Circulated

NOTE: 1" PLUG TO 1336' CMTD W/720 SXS TO CIRCULATE.

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6468 FEET TO: 6476 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

SHACKELFORD OIL

PLAINS UNIT

OPERATOR

LEASE

6

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

7/10/96

TABULAR DATA

SCHEMATIC

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 275 sx

TOC: 3335 FEET DETERMINED BY: Calculated

HOLE SIZE: 11 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 sx

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11690 FEET

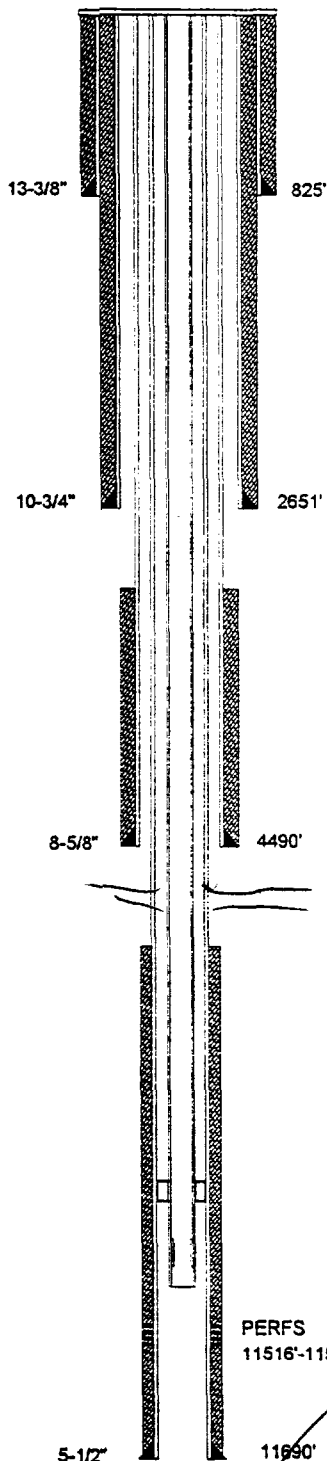
6. PERFORATIONS

11516 FEET TO: 11530 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108

SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

2

1650' FNL & 1650' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

8/30/88

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 165 sx

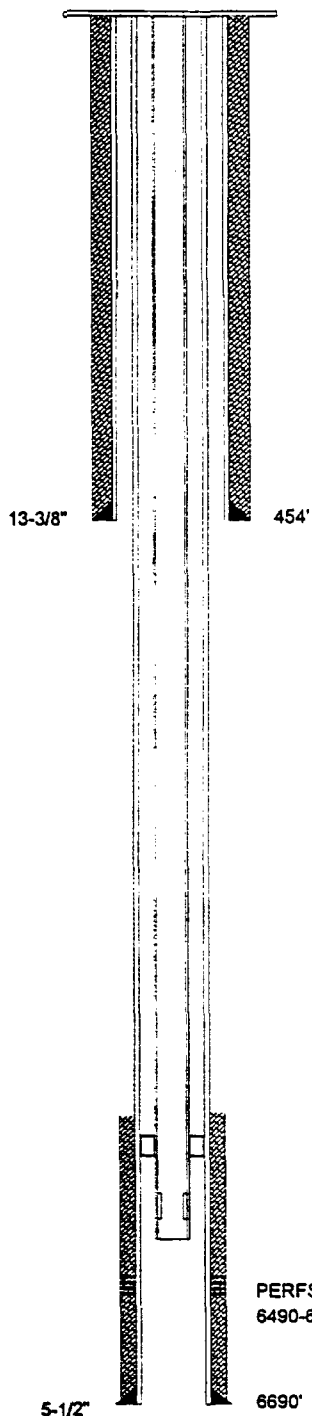
TOC: 5997 FEET DETERMINED BY: Calculation

HOLE SIZE: 11 & 7-7/8 INCHES

4. TOTAL DEPTH: 6690 FEET

5. PERFORATIONS

6490 FEET TO: 6495 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"



FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

3
WELL NO.2310' FSL & 330' FWL
FOOTAGE LOCATIONSEC-21
SECTIONT-19-S
TOWNSHIPR-32-E
RANGE

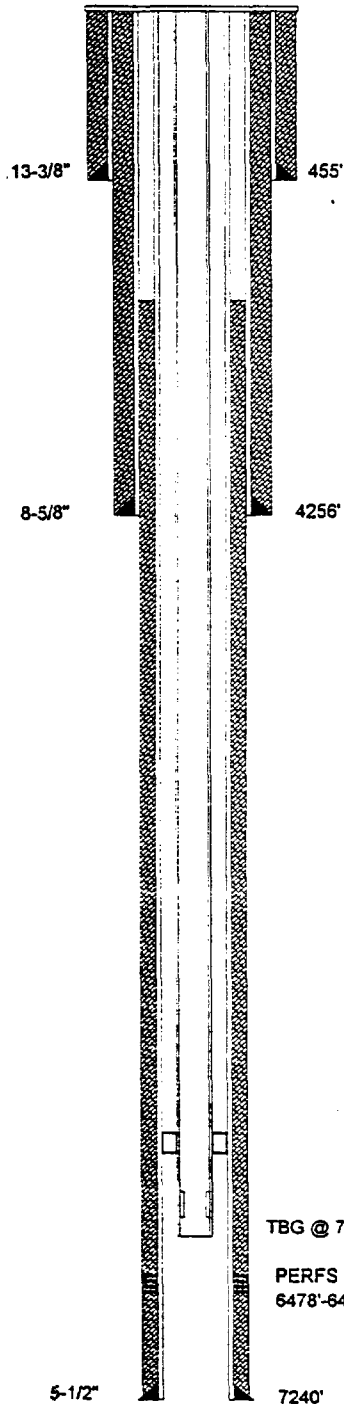
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

10/25/89

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1090 SX

TOC: 150 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1000 SX

TOC: 3240 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7240 FEET

5. PERFORATIONS

6478 FEET TO: 6485 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

AMOCO FEDERAL

OPERATOR

LEASE

1

660' FNL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

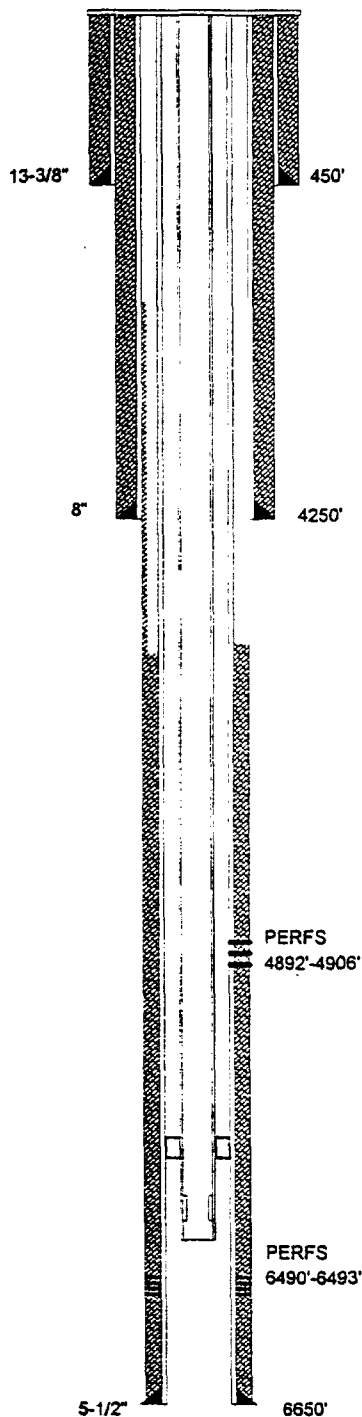
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

9/23/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8 INCHES CEMENTED WITH: 2150 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 525 SX

TOC: 4550 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6650 FEET

5. PERFORATIONS

6490 FEET TO: 6493 FEET

(PERFORATED OR OPEN HOLE; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

OPERATOR

LEASE

15

1651' FNL & 330' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

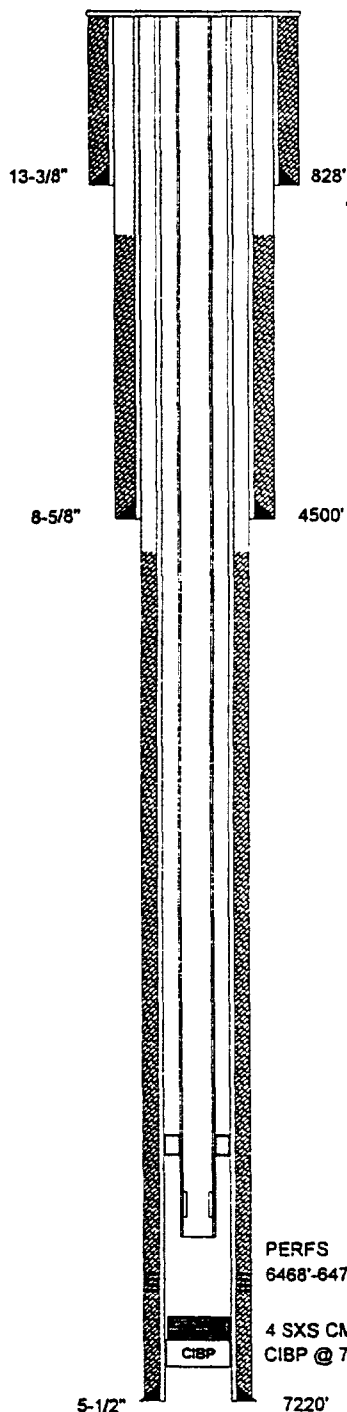
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

11/22/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 **SX**

TOC: 2370 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 **SX**

TOC: 4690 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6478 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4

1930' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

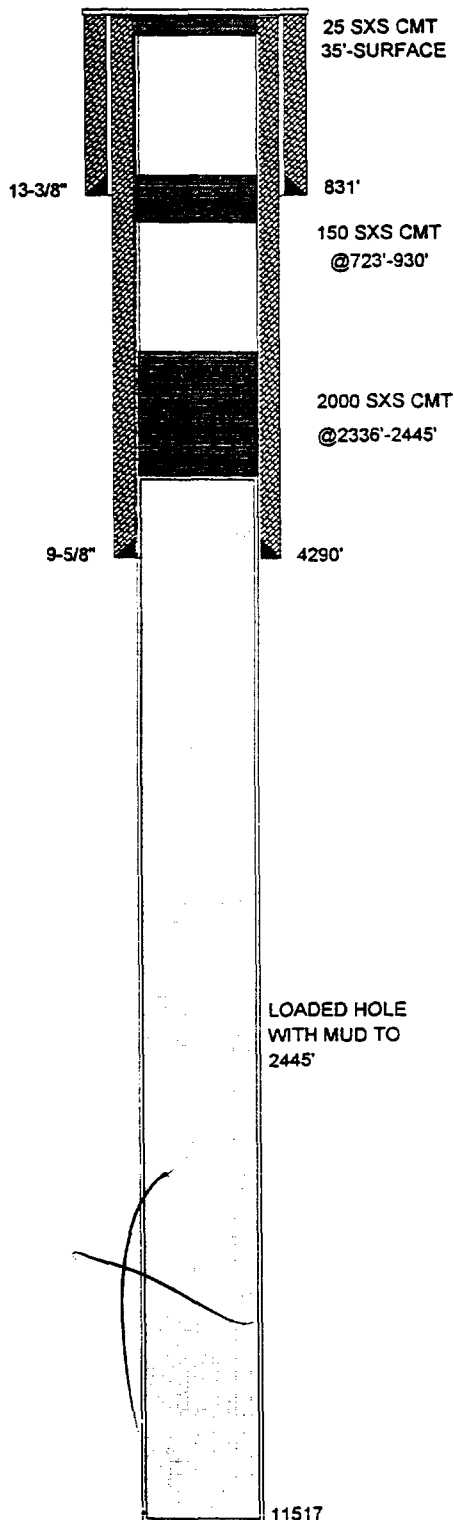
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

9/12/63

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 725 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: INCHES

4. TOTAL DEPTH: 11517 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

2

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

4/11/42

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 100 SX

TOC: 2400 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2820 FEET

5. PERFORATIONS

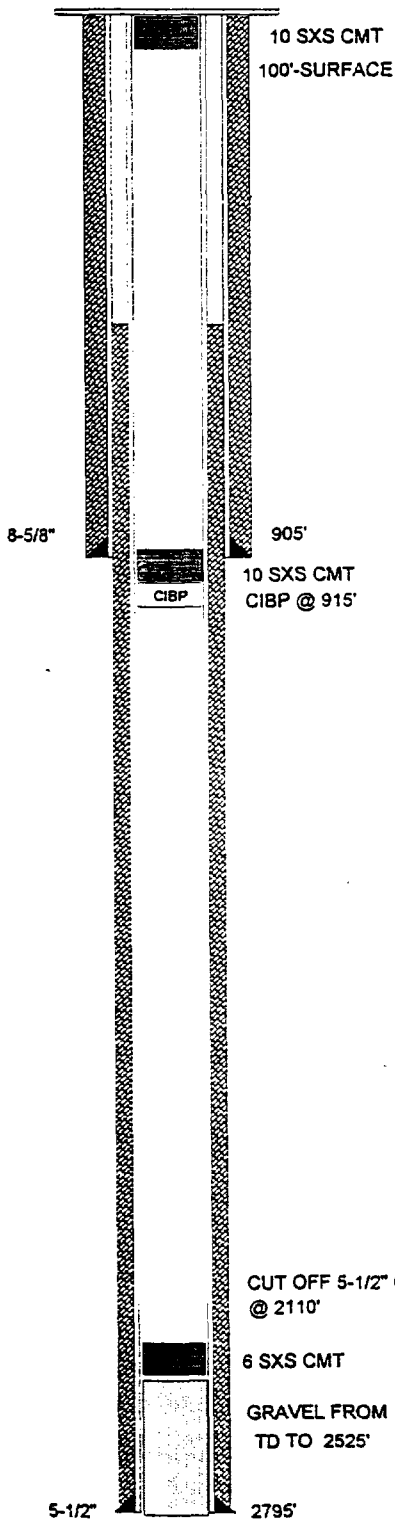
2680 FEET TO: 2955 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

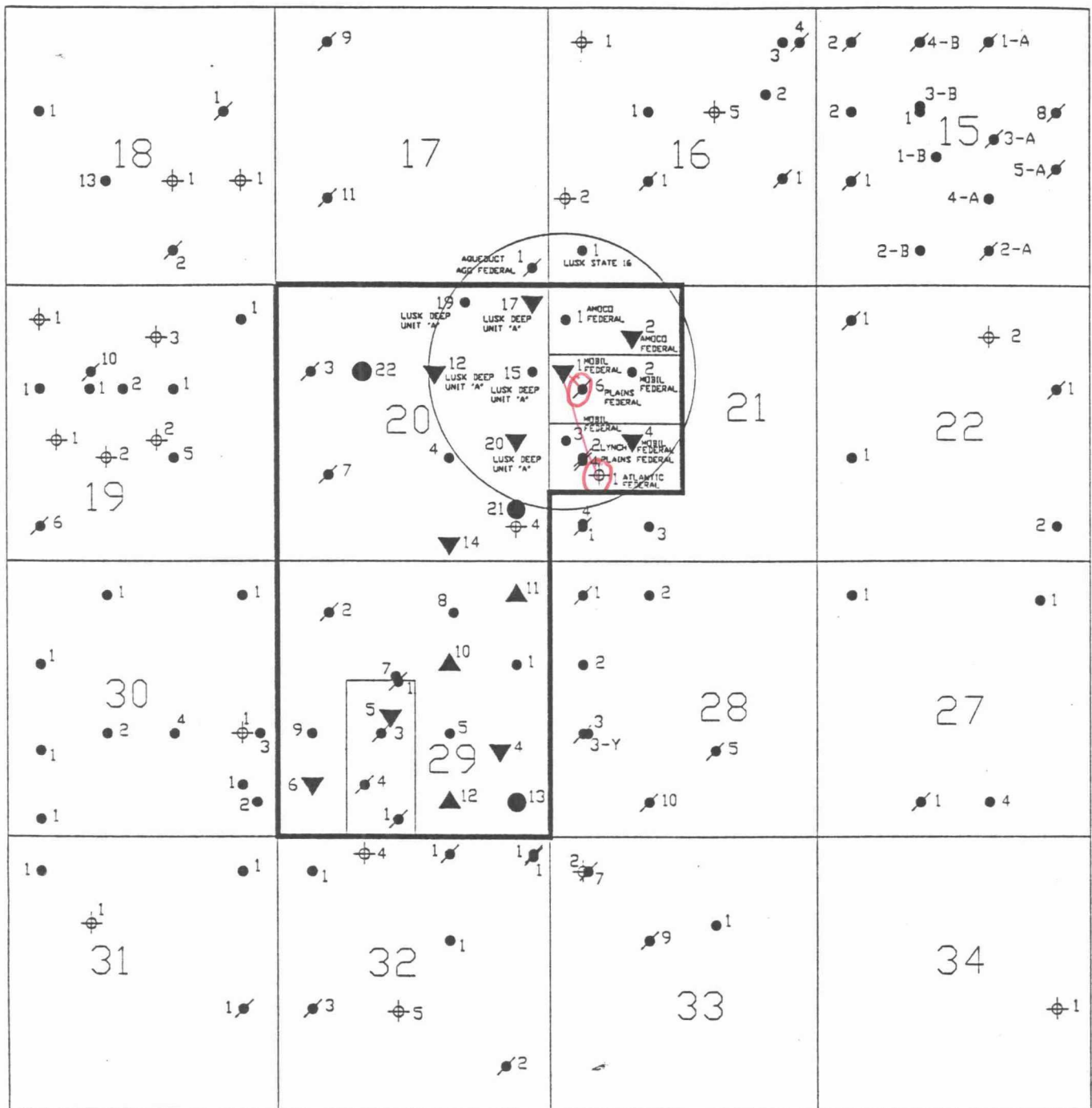
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

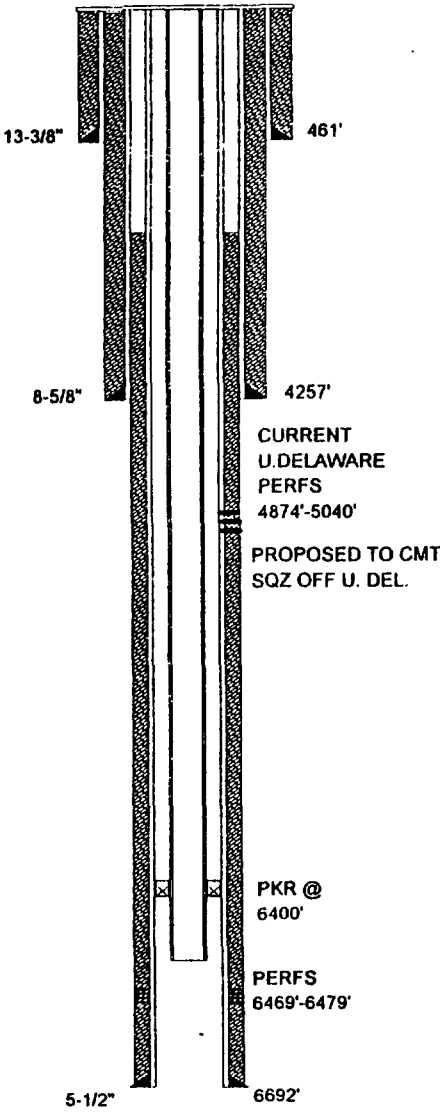


PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 1 1650' FNL & 330' FWL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 860 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 875 SX
TOC: 4248 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6479 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 4/92 PERFS 4904', 4984'-5006', 5012'-5040' CIBP @ 5183'
5/92 PERFS 4874'-4892' CIBP @ 4940', CURRENTLY PRODUCING FROM U. DELAWARE PERFS 4874'-4892'

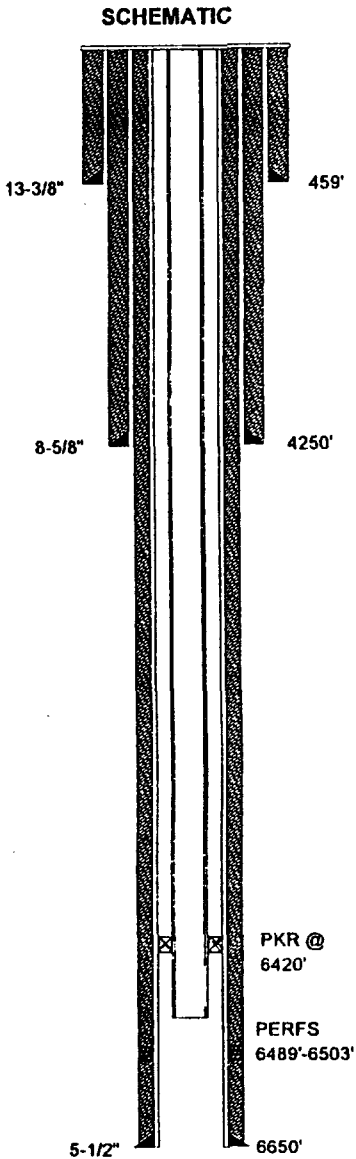
E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: AMOCO FEDERAL

WELL NO 2 990' FNL & 1650' FWL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 100 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES
NOTE: PULLED 3088' 8-8/5" CSG

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2250 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES
NOTE: PUMPED 1575 SXS CMT FROM TOPSIDE

4. INJECTION INTERVAL 6489 FEET TO: 6503 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6420 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 3/92 PERFS 4856'-4867' WCIBP @ 4995' CURRENTLY PRODUCING FROM

U. DELAWARE PERFS 4856'-4867' PLAN TO SQZ OFF U. DELAWARE CONVERT TO WIW IN 6469'-6503' PERFS

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P.

LEASE: LUSK DEEP UNIT "A"

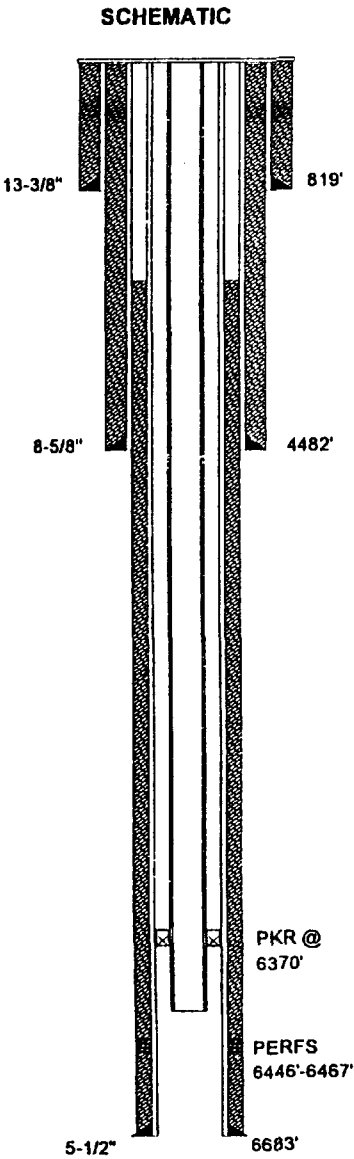
WELL NO12

FOOTAGE LOCATION1660' FNL & 2300' FEL

SECTIONSEC-20

TOWNSHIP T-19-S

RANGER-32-E



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHESCEMENTED WITH: 500 SX

TOC: SurfaceFEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHESCEMENTED WITH: 1650 SX

TOC: 1350FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHESCEMENTED WITH: 800 SX

TOC: 2710FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6446 FEET TO: 6467 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHESLINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKRPACKER AT: 6370 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YESNO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

COMMENT: SPUD WELL 11/2/74. P&A WELLBORE 8/27/86. RE-ENTRY 4/12/89

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 8839'-8914' CIBP AT 8800' W/5, SX, CMT/TOP, PERFS 10680'-10708',
CIBP AT 10640' W/5, SX, CMT/TOP, PERFS 11460'-11581', CIBP AT 11430' W/5, SX, CMT/TOP, CIBP AT 12212' W/20, SX, CMT/TOP

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES

5. STRAWN 11000'-11200'LUSK STRAWN OIL

2. DELAWARE 4600'-7100'W. LUSK DELAWARE
LUSK DELAWARE

6. ATOKA 11200'-11400'LUSK ATOKA GAS

3. BONE SPRING 8200'-8950'WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING

7. MORROW 11500'-12000'LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS

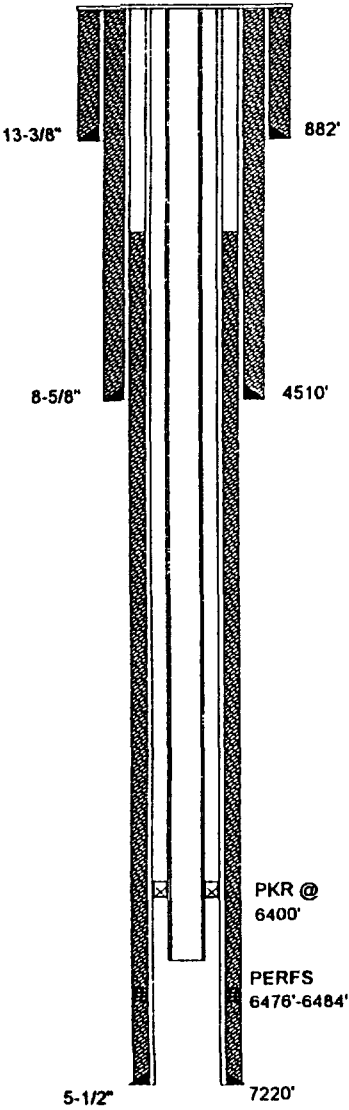
4. WOLF CAMP 10100'-10700'LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 17 330' FNL & 330' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1450 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 2790 FEET DETERMINED BY: CALCULATED
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6476 FEET TO: 6484 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7224 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

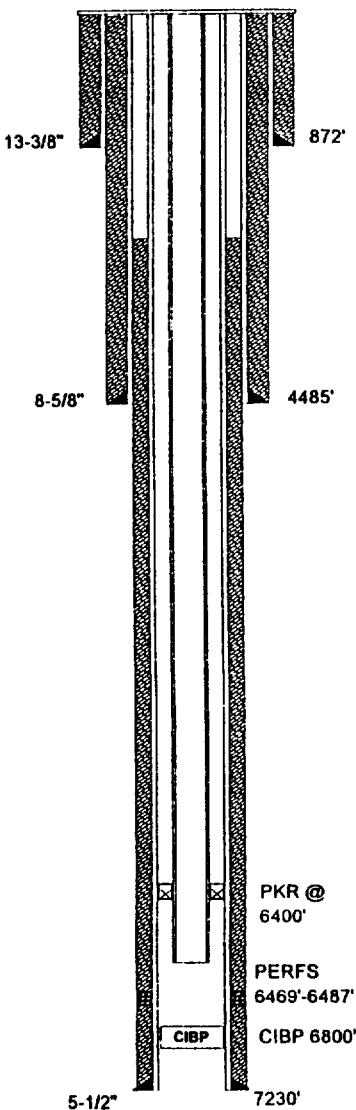
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 20 660' FEL & 2310' FSL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 3030 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6487 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 7050'-7154', SET CIBP, WITH 4 SK. CMT. ON TOP AT 6800'

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

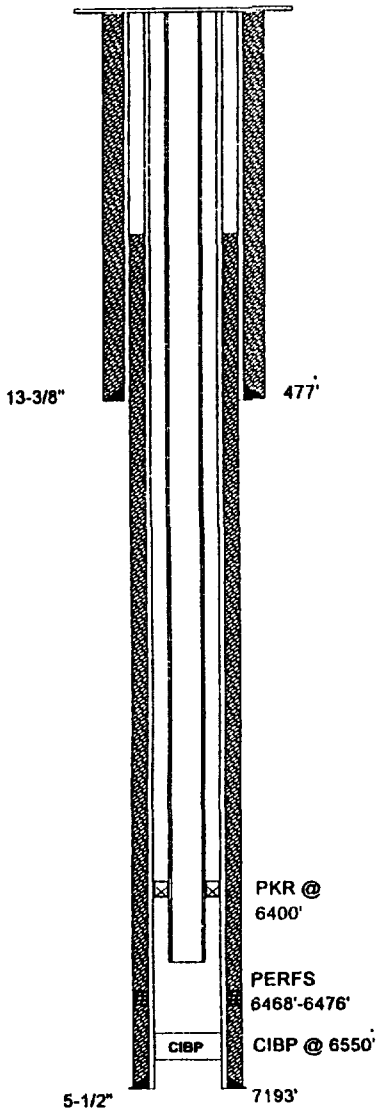
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 4 1650' FWL & 2310' FSL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX
TOC: N/A FEET DETERMINED BY: N/A
HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2620 SX
TOC: Surface FEET DETERMINED BY: Circulated
NOTE: 1" PLUG TO 1336' CMT'D W/720 SXS TO CIRCULATE.
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6468 FEET TO: 6476 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

3

2310' FSL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

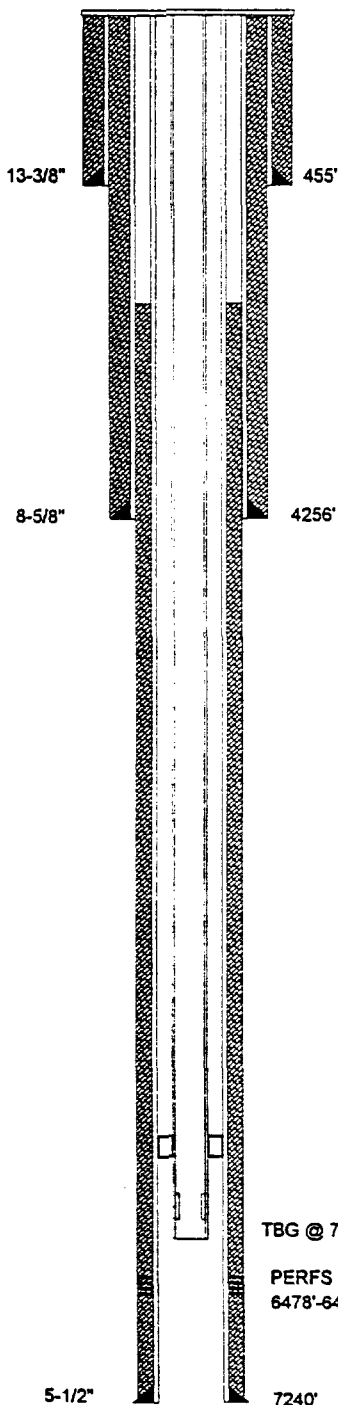
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

10/25/89

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1090 SXTOC: 150 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1000 SXTOC: 3240 FEET DETERMINED BY: CalculatedHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 7240 FEET

5. PERFORATIONS

6478 FEET TO: 6485 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS UNIT

OPERATOR

LEASE

6

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

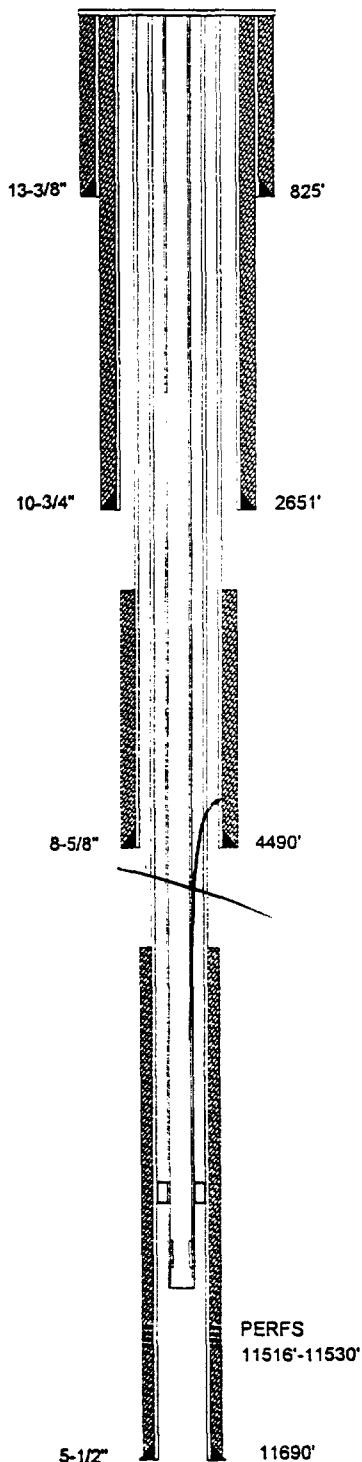
PRODUCING OIL AND GAS WELL

SPUD DATE:

7/10/96

TABULAR DATA

SCHEMATIC



1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 275 sx

TOC: 3335 FEET DETERMINED BY: Calculated

HOLE SIZE: 11 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 sx

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11690 FEET

6. PERFORATIONS

11516 FEET TO: 11530 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI
 APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL
 TABULATION OF WELL DATA

RAY WESTALL OPERATING CORP.

LUSK "16" STATE

OPERATOR

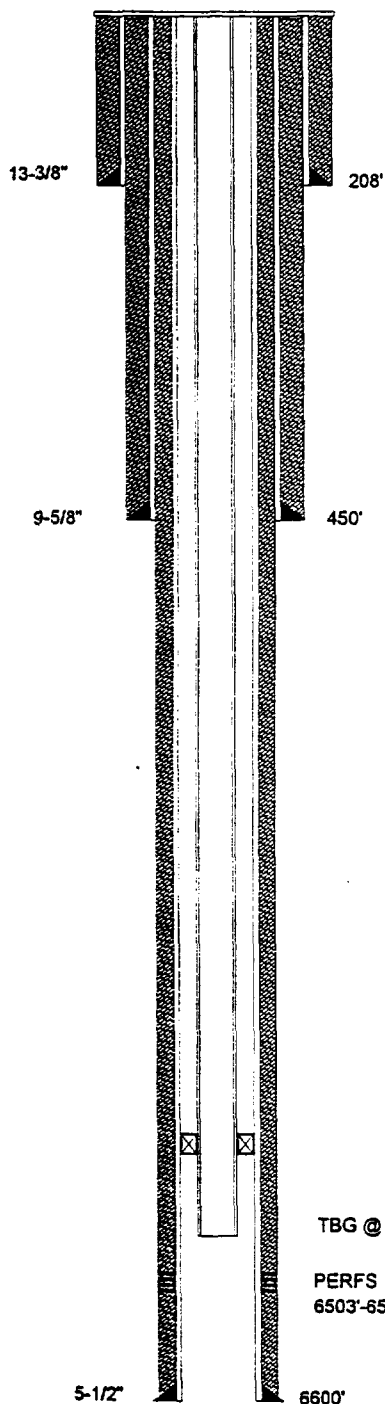
LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	660' FSL & 660' FWL	SEC-16	T-19-S	R-32-E

TYPE OF WELL: PRODUCING OIL AND GAS WELL

SPUD DATE: 3/9/62

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 125 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 3475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6600 FEET

5. PERFORATIONS

6503 FEET TO: 6509 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

AMOCO FEDERAL

OPERATOR

LEASE

1

660' FNL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

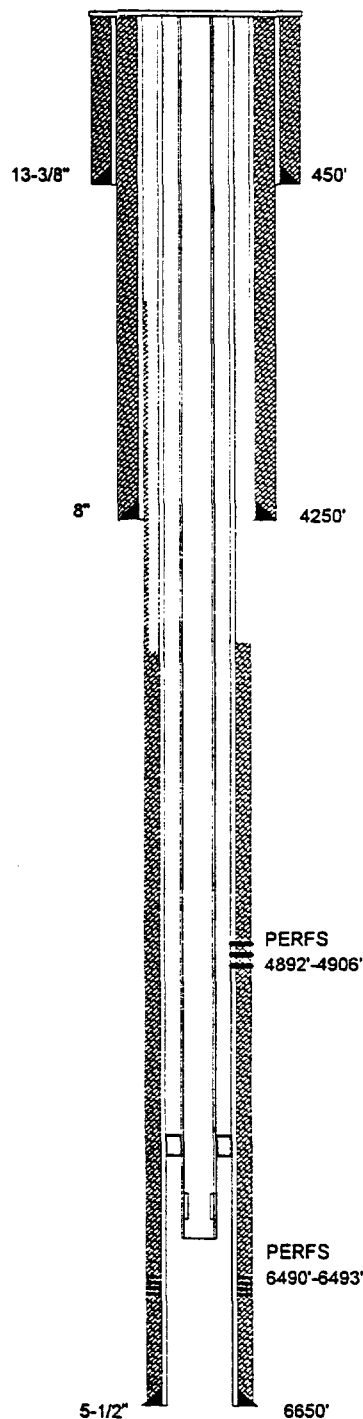
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

9/23/88

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8 INCHES CEMENTED WITH: 2150 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 525 sx

TOC: 4550 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6650 FEET

5. PERFORATIONS

6490 FEET TO: 6493 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

2

1650' FNL & 1650' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

8/30/88

SCHEMATIC

TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A **SX**

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 165 **SX**

TOC: 5997 FEET DETERMINED BY: Calculation

HOLE SIZE: 11 & 7-7/8 INCHES

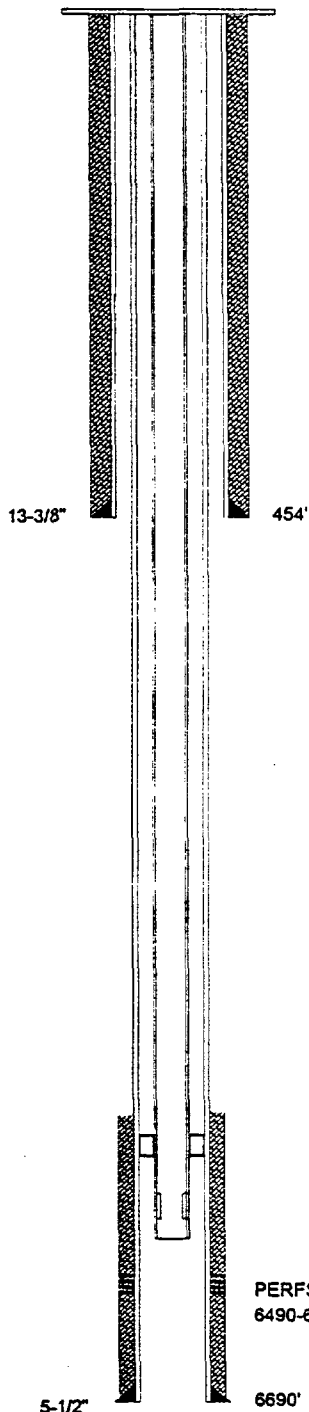
4. TOTAL DEPTH: 6690 FEET

5. PERFORATIONS

6490 FEET TO: 6495 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"



**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

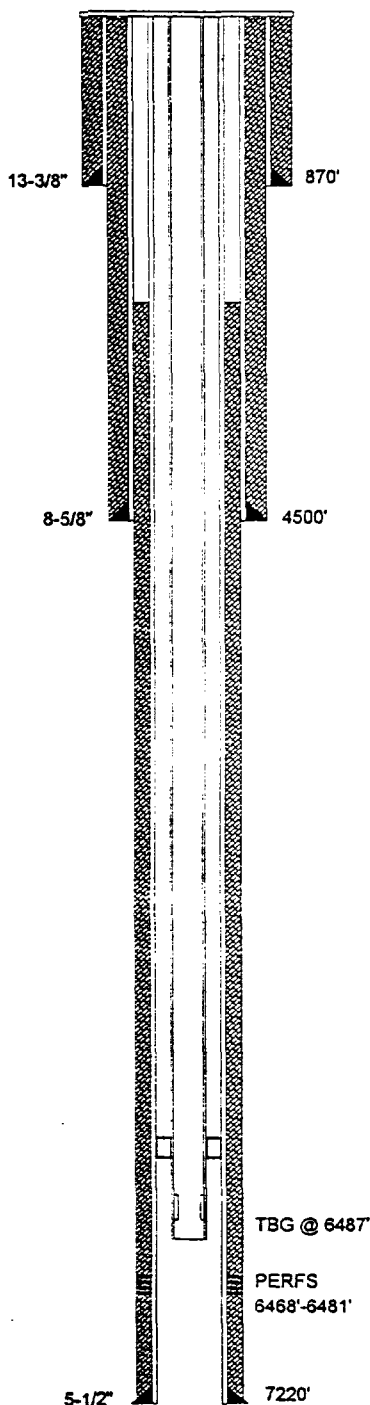
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP UNIT "A"

OPERATOR	LEASE			
19	330' FNL & 1656' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 1/26/90		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 3230 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 900 SX
 TOC: 1630 FEET DETERMINED BY: Temp. Survey
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6481 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

LUSK DEEP "A"

OPERATOR

LEASE

15

1651' FNL & 330' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

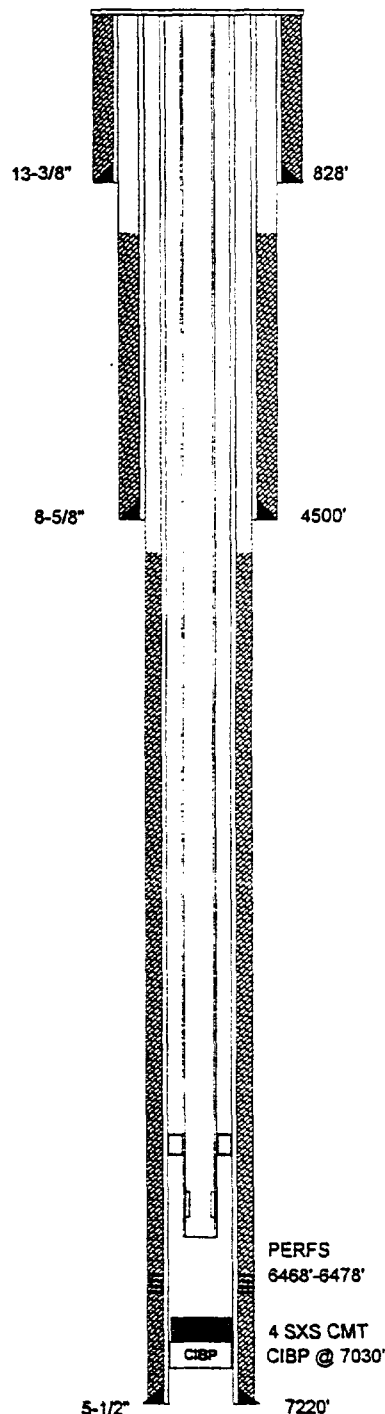
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

11/22/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 sx

TOC: 2370 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 sx

TOC: 4690 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6478 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

MARBOB ENERGY CORP.

AQUEDUCT AGG FEDERAL

OPERATOR

LEASE

1

330' FSL & 330' FEL

SEC-17

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

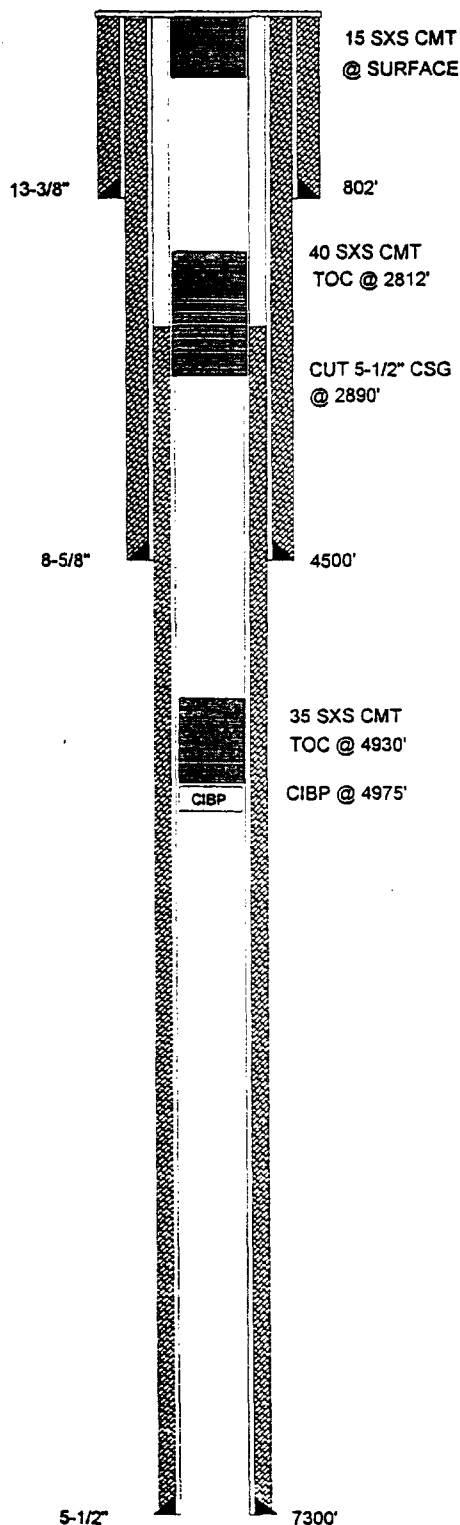
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

6/11/89

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 800 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2950 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 975 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7300 FEET

5. PERFORATIONS

6486 FEET TO: 6498 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

2

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

4/11/42

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 100 SX

TOC: 2400 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2820 FEET

5. PERFORATIONS

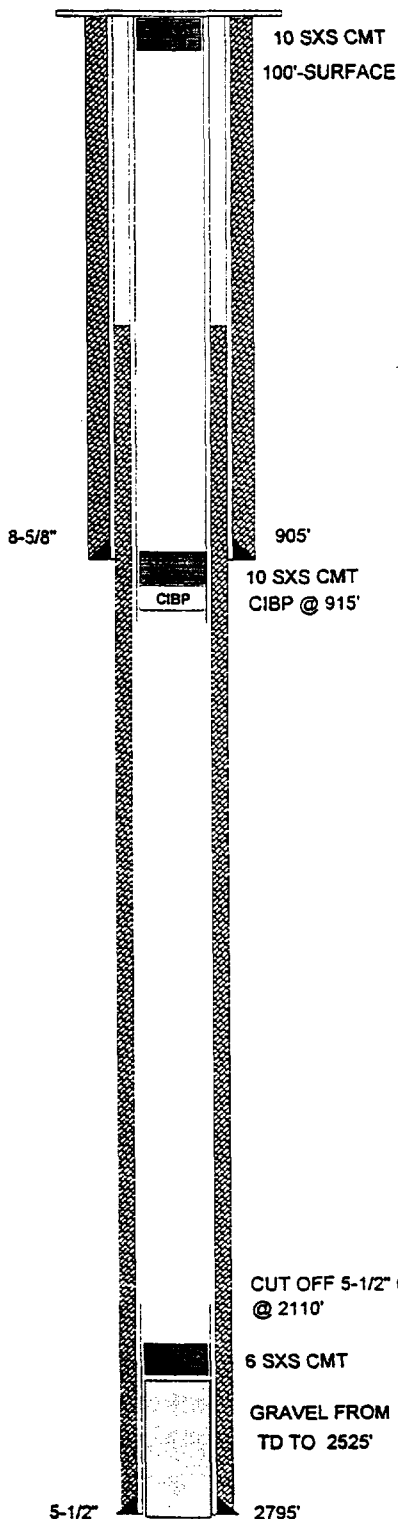
2680 FEET TO: 2955 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4

1930' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

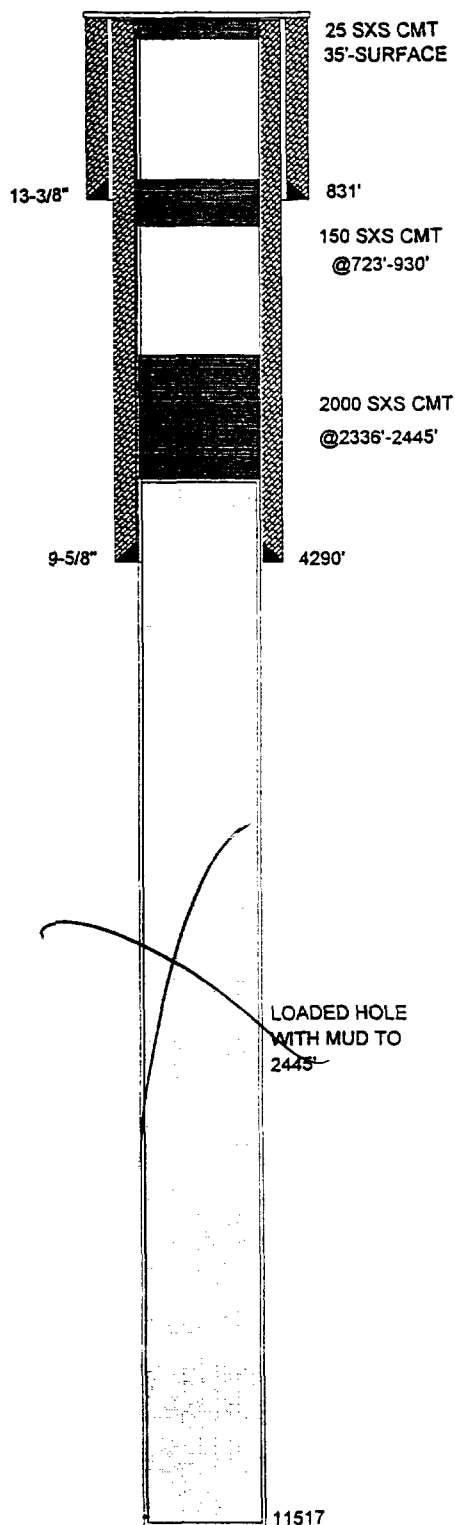
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

9/12/63

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 725 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 1000 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: INCHES4. TOTAL DEPTH: 11517 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
 SECTION VI

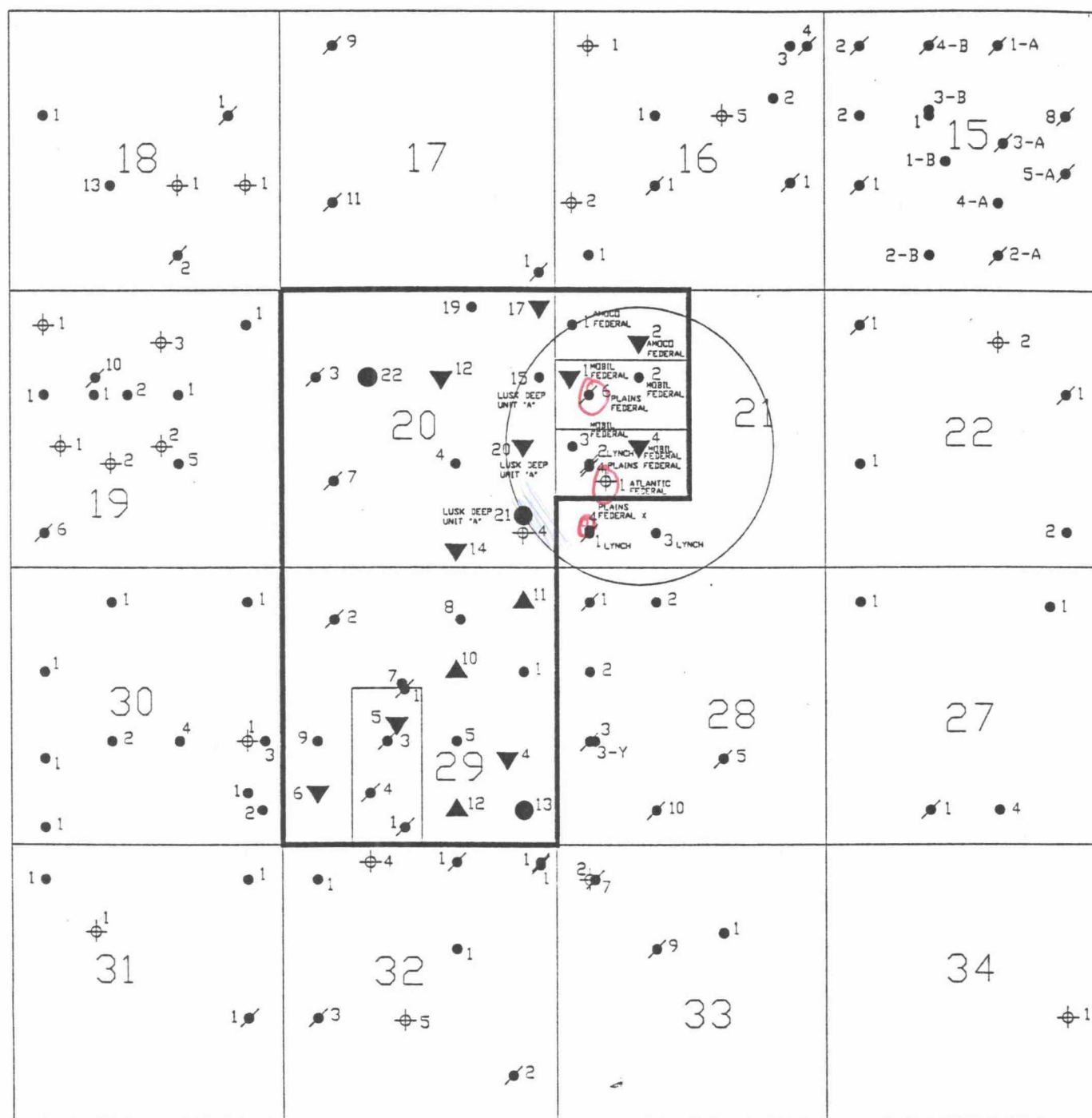
APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SECTION V

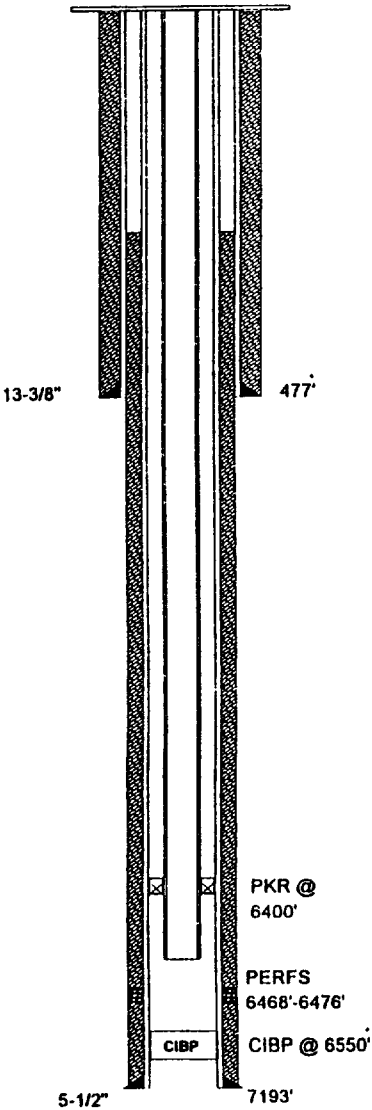


PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 4 1650' FWL & 2310' FSL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: N/A INCHES CEMENTED WITH: N/A SX
TOC: N/A FEET DETERMINED BY: N/A
HOLE SIZE: N/A INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 2620 SX
TOC: Surface FEET DETERMINED BY: Circulated
NOTE: 1" PLUG TO 1336' CMT'D W/720 SXS TO CIRCULATE.
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6468 FEET TO: 6476 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO X
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

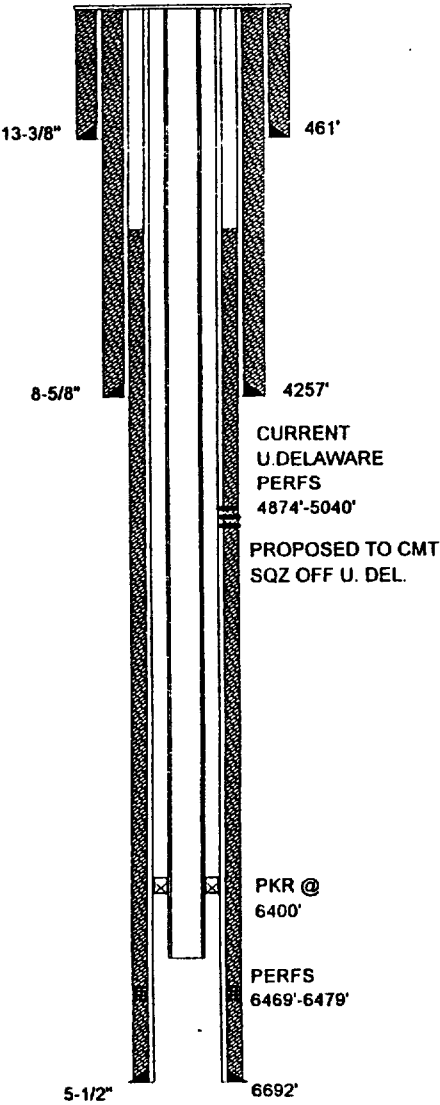
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 1 FOOTAGE LOCATION 1650' FNL & 330' FWL SEC-21 T-19-S R-32-E

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 860 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 875 SX
TOC: 4248 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6479 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 4/92 PERFS 4904', 4984'-5006', 5012'-5040' CIBP @ 5183'
5/92 PERFS 4874'-4892' CIBP @ 4940', CURRENTLY PRODUCING FROM U. DELAWARE PERFS 4874'-4892'

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

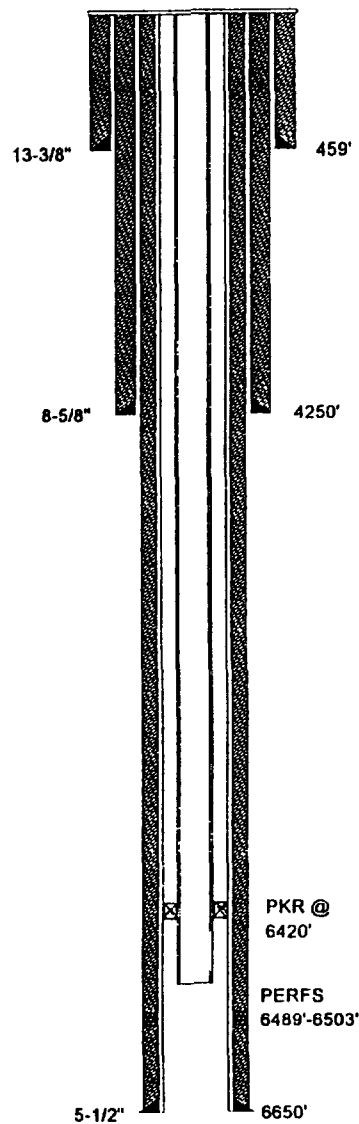
PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: AMOCO FEDERAL

WELL NO 2 990' FNL & 1650' FWL SEC-21 T-19-S R-32-E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 100 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2250 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6489 FEET TO: 6503 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6420 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 3/92 PERFS 4856'-4867' W/CIBP @ 4995' CURRENTLY PRODUCING FROM

U. DELAWARE PERFS 4856'-4867' PLAN TO SQZ OFF U. DELAWARE CONVERT TO WIW IN 6469'-6503' PERFS

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

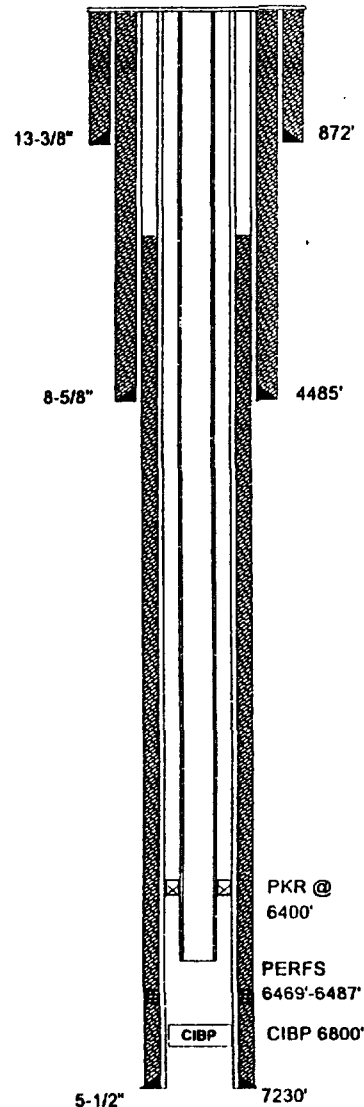
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 20 660' FEL & 2310' FSL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 3030 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6487 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 7050'-7154, SET CIBP, WITH 4 SK. CMT. ON TOP AT 6800'

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

SHACKELFORD OIL

AMOCO FEDERAL

OPERATOR

LEASE

1

660' FNL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

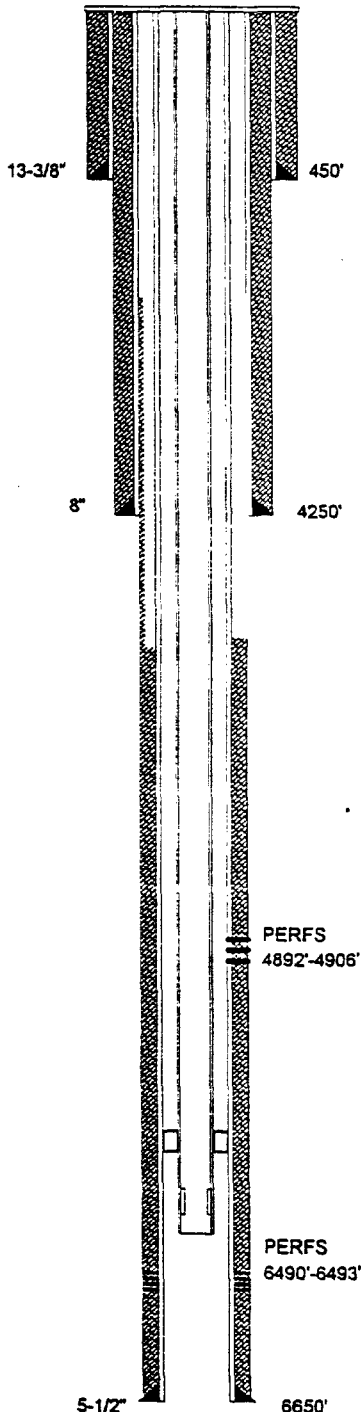
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

9/23/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8 INCHES CEMENTED WITH: 2150 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 525 SXTOC: 4550 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 6650 FEET

5. PERFORATIONS

6490 FEET TO: 6493 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

PERFS
 4892'-4906'

PERFS
 6490'-6493'

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

OPERATOR

LEASE

15

1651' FNL & 330' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

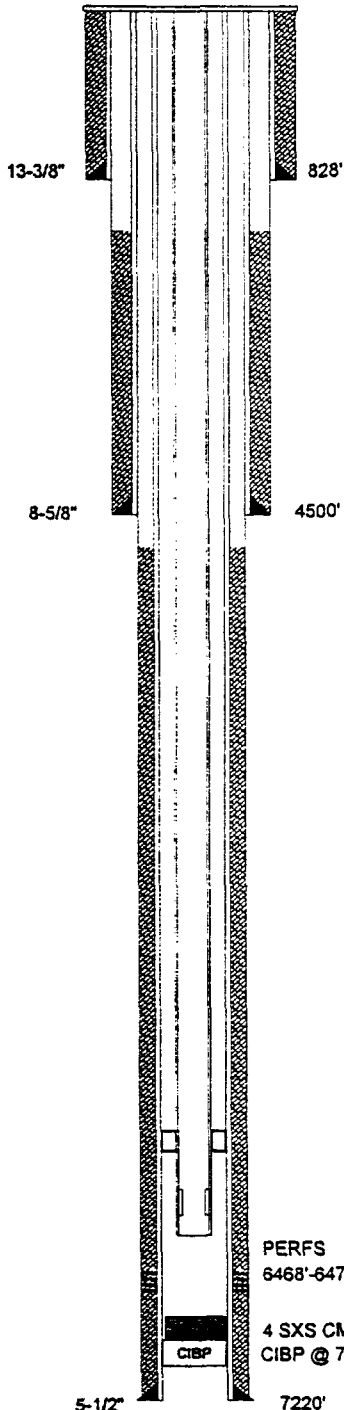
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

11/22/88

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 **SX**

TOC: 2370 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 **SX**

TOC: 4690 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6478 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

2

1650' FNL & 1650' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

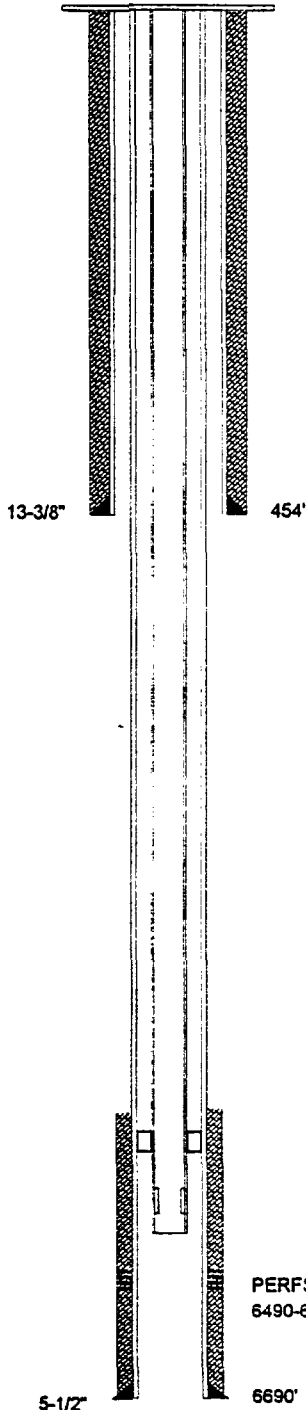
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

8/30/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 165 sx

TOC: 5997 FEET DETERMINED BY: Calculation

HOLE SIZE: 11 & 7-7/8 INCHES

4. TOTAL DEPTH: 6690 FEET

5. PERFORATIONS

6490 FEET TO: 6495 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

3

2310' FSL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

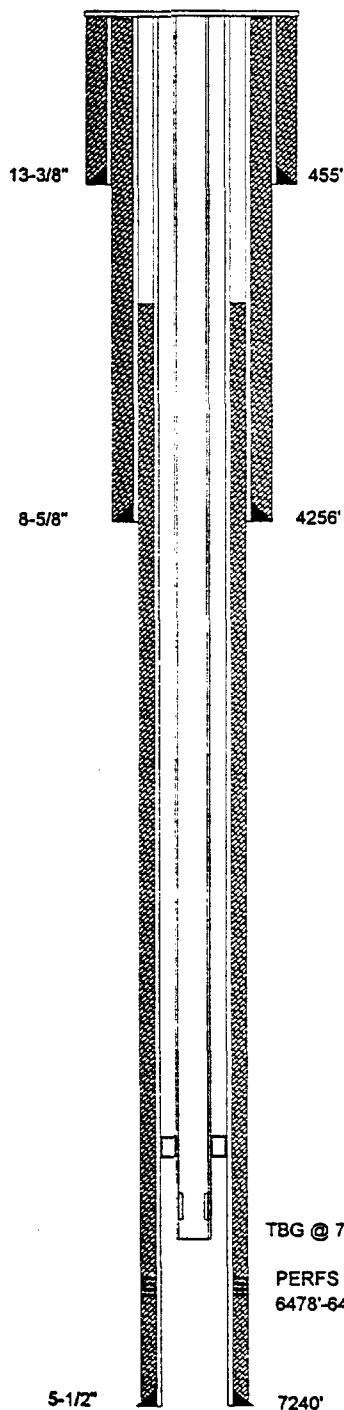
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

10/25/89

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1090 SX

TOC: 150 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1000 SX

TOC: 3240 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7240 FEET

5. PERFORATIONS

6478 FEET TO: 6485 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

3

678' FSL & 1992' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

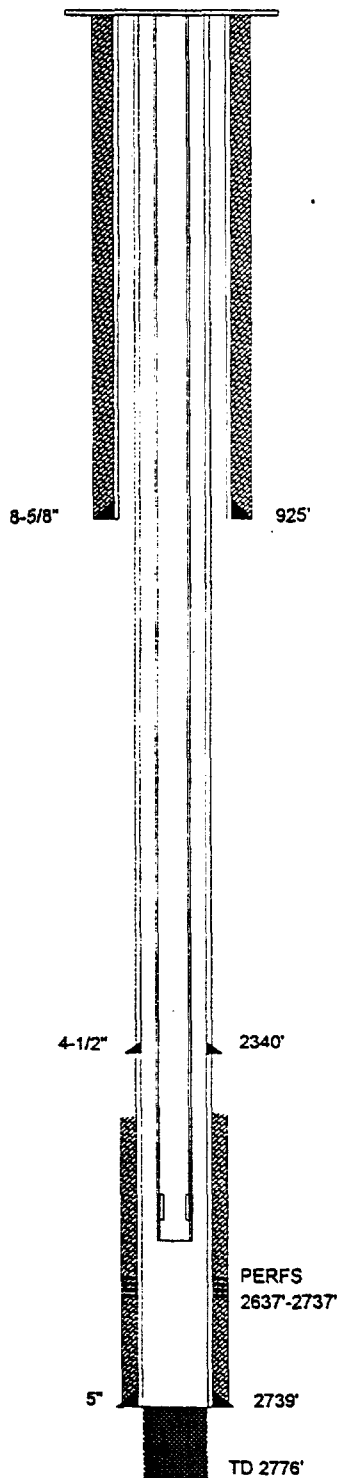
RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE: 11-14-42 RE-ENTRY 10-6-95

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 4-1/2 & 5-1/2 INCHES CEMENTED WITH: 50 sx

TOC: 2400 FEET DETERMINED BY: Calculation

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2776 FEET

5. PERFORATIONS

2637 FEET TO: 2737 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4 - X

710' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

1/4/64

TABULAR DATA

SCHEMATIC

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 250 sx

TOC: 3500 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 9-7/8 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 sx

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11514 FEET

6. PERFORATIONS

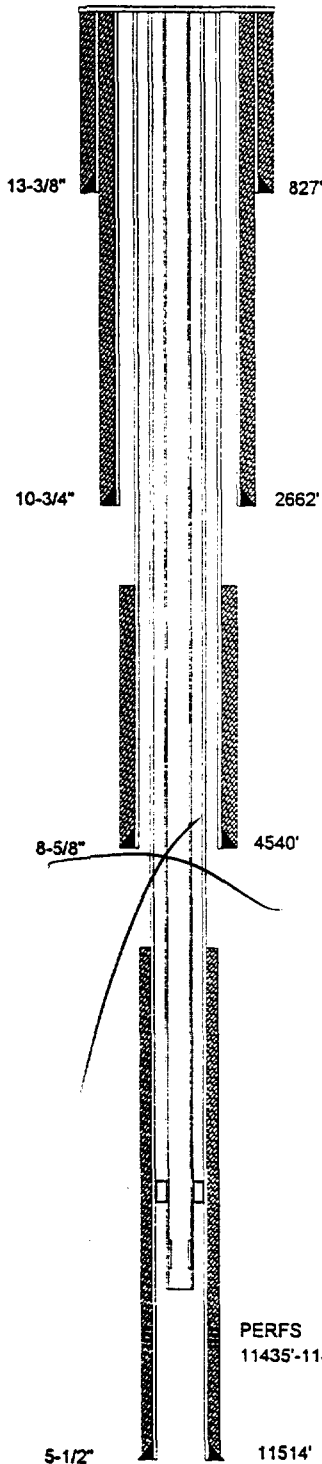
11435 FEET TO: 11479 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108

SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

OPERATOR

LEASE

21

990' FSL & 660' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

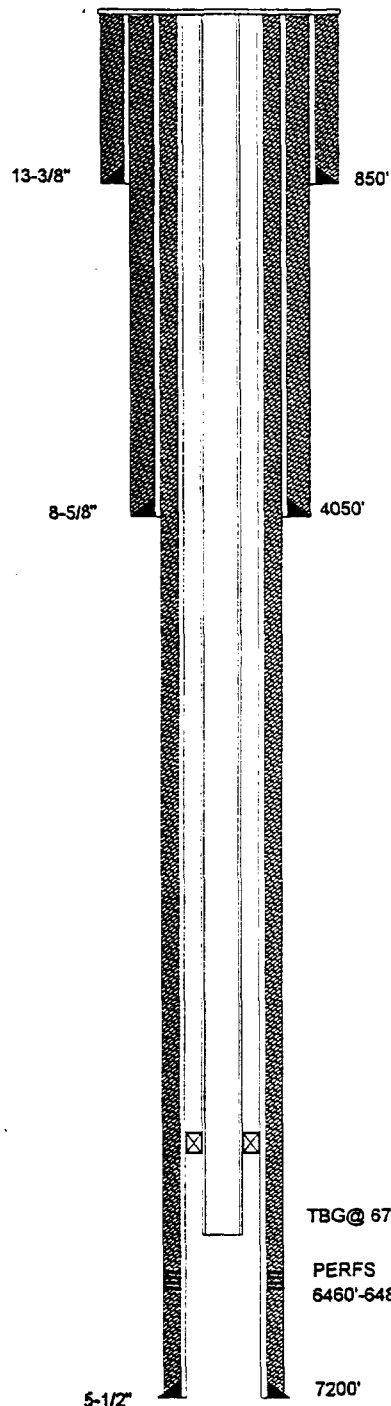
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

1997

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1530 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6460 FEET TO: 6480 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS UNIT

OPERATOR

LEASE

6

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

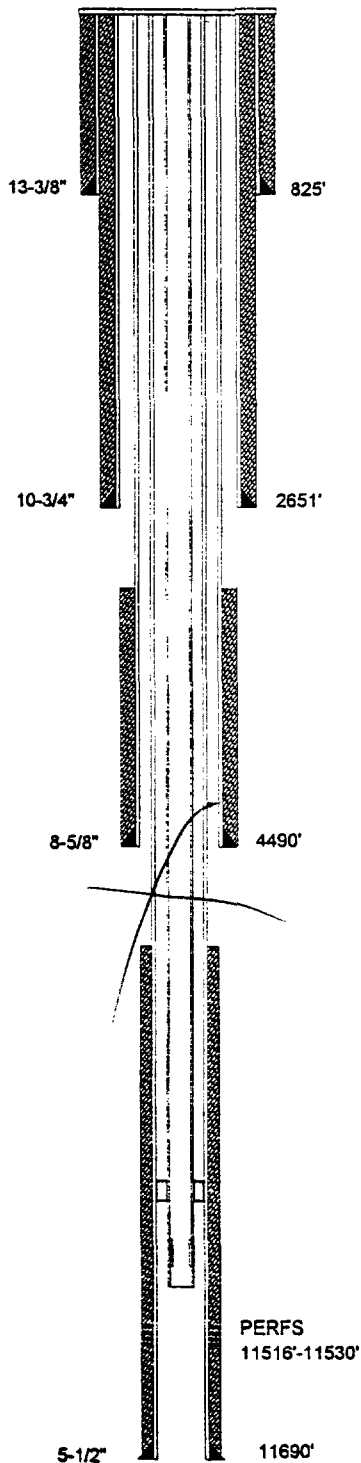
PRODUCING OIL AND GAS WELL

SPUD DATE:

7/10/96

TABULAR DATA

SCHEMATIC



1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 275 SX

TOC: 3335 FEET DETERMINED BY: Calculated

HOLE SIZE: 11 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 SX

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11690 FEET

6. PERFORATIONS

11516 FEET TO: 11530 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

1

660' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

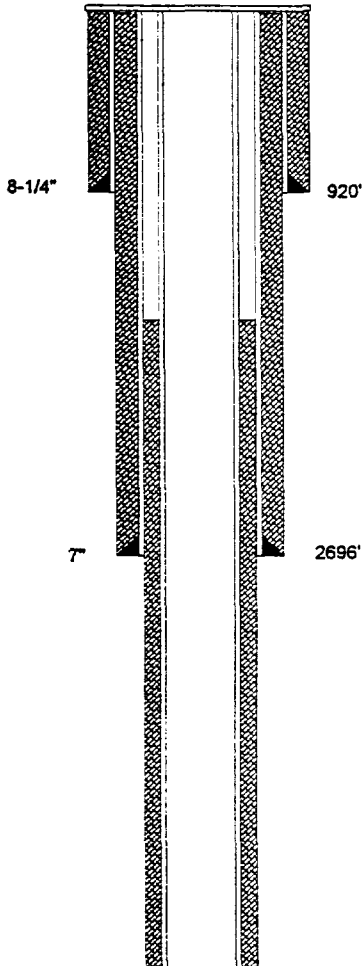
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

12/18/41

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 8-1/4 INCHES CEMENTED WITH: 50 sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: 7 INCHES CEMENTED WITH: 100 sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

4. TOTAL DEPTH: 2751 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

UNKNOWN

FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240

WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

OPERATOR

PLAINS FEDERAL

LEASE

4

1930' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

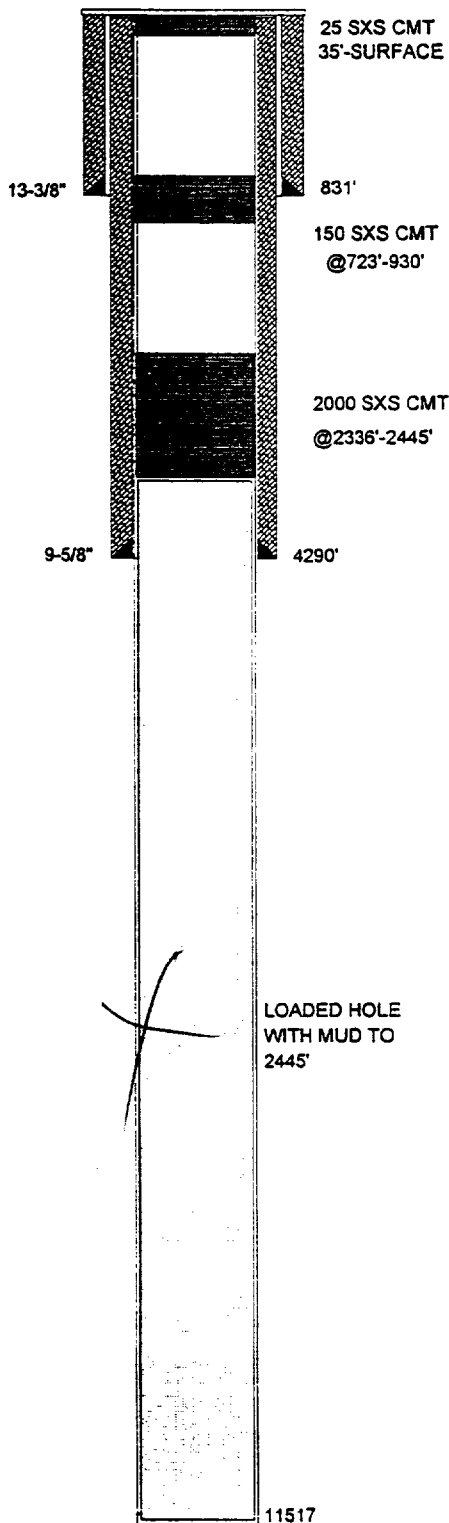
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

9/12/63

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 725 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: INCHES

4. TOTAL DEPTH: 11517 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

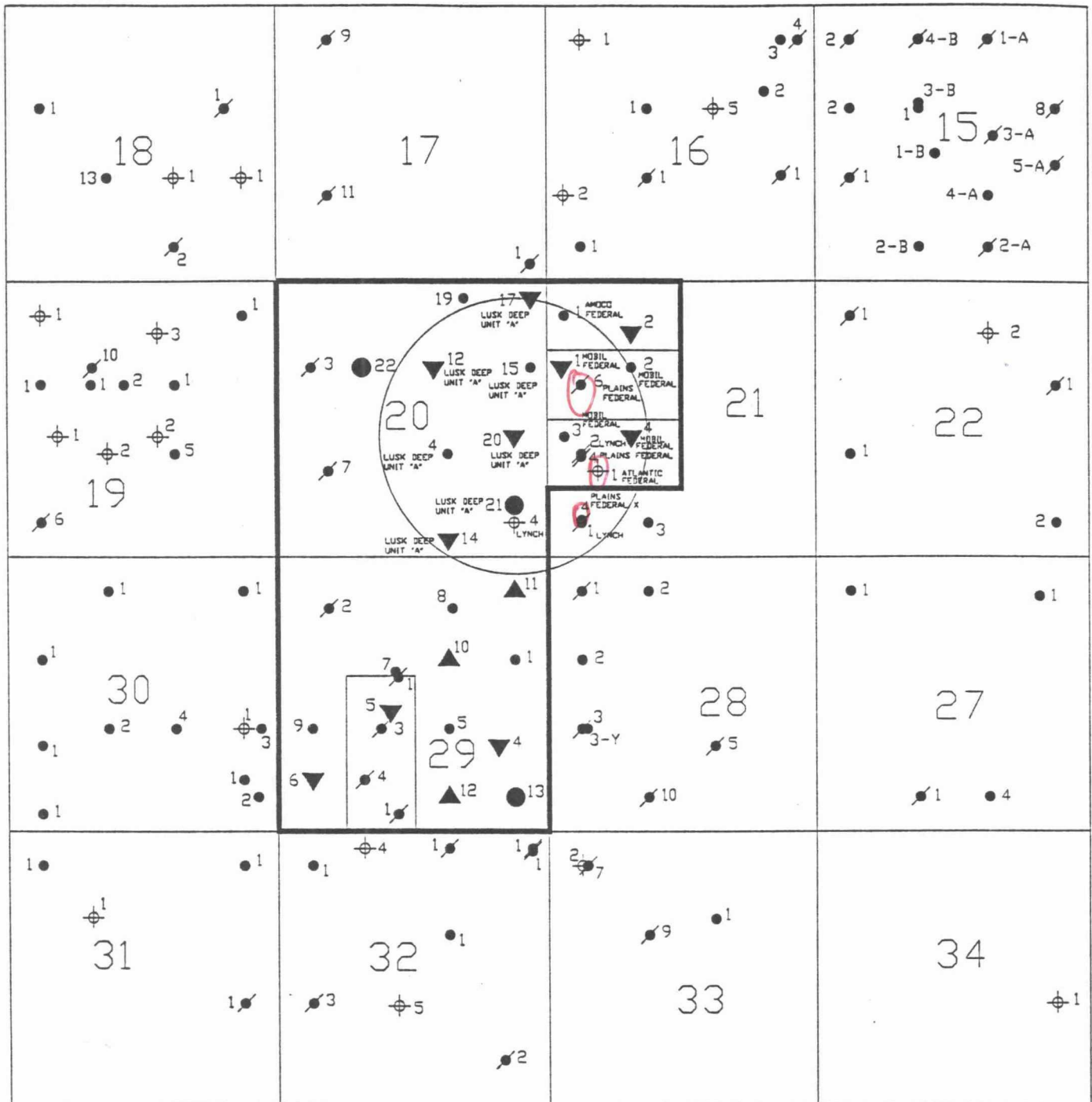
NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SECTION V

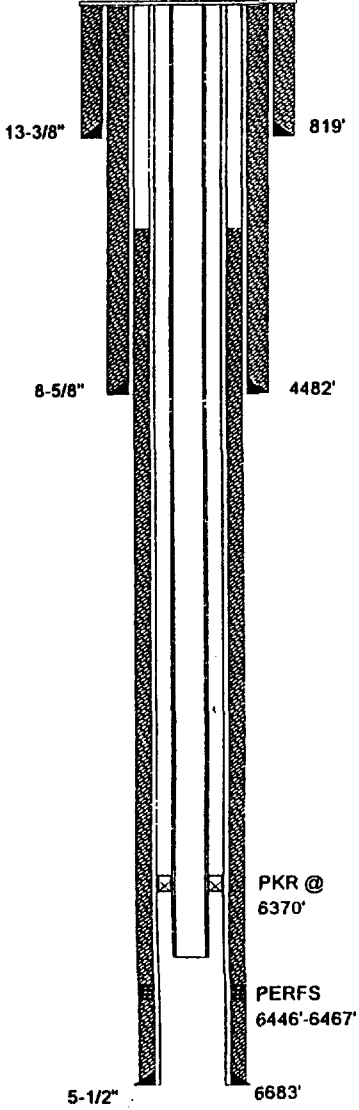


PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 12 1660' FNL & 2300' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 500 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 1650 SX
TOC: 1350 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 11 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 2710 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6446 FEET TO: 6467 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6370 FEET:

OTHER DATA
A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL
COMMENT: SPUD WELL 11/2/74. P&A WELLBORE 8/27/86. RE-ENTRY 4/12/89

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)
C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)
D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 8839'-8914' CIBP AT 8800' W/5, SX, CMT/TOP, PERFS 10680'-10708',
CIBP AT 10640' W/5, SX, CMT/TOP, PERFS 11460'-11581', CIBP AT 11430' W/5, SX, CMT/TOP, CIBP AT 12212' W/20, SX, CMT/TOP

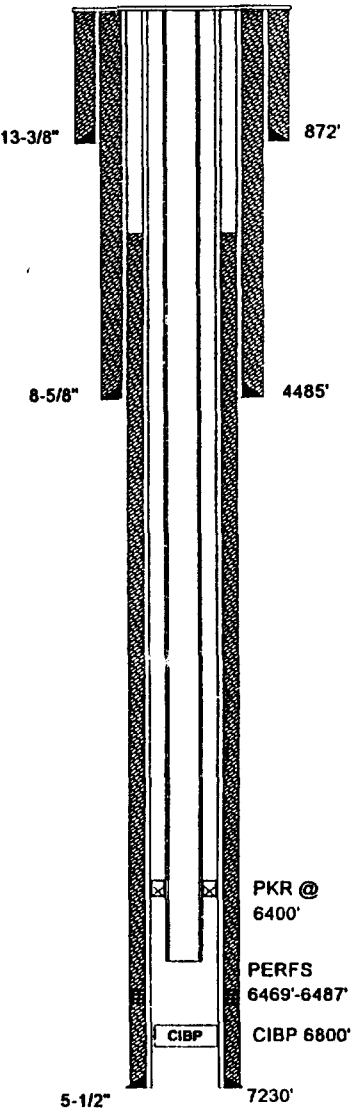
E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:
1. YATES 2600'-2800' WATKINS YATES 5. STRAWN 11000'-11200' LUSK STRAWN OIL
N.E. LUSK YATES
S. LUSK YATES
2. DELAWARE 4600'-7100' W. LUSK DELAWARE 7. MORROW 11500'-12000' LUSK MORROW GAS
LUSK DELAWARE N.W. LUSK MORROW GAS
N. LUSK MORROW GAS
3. BONE SPRING 8200'-8950' WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING
4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 20 660' FEL & 2310' FSL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 3030 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6487 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 7050'-7154, SET CIBP, WITH 4 SK. CMT. ON TOP AT 6800'

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

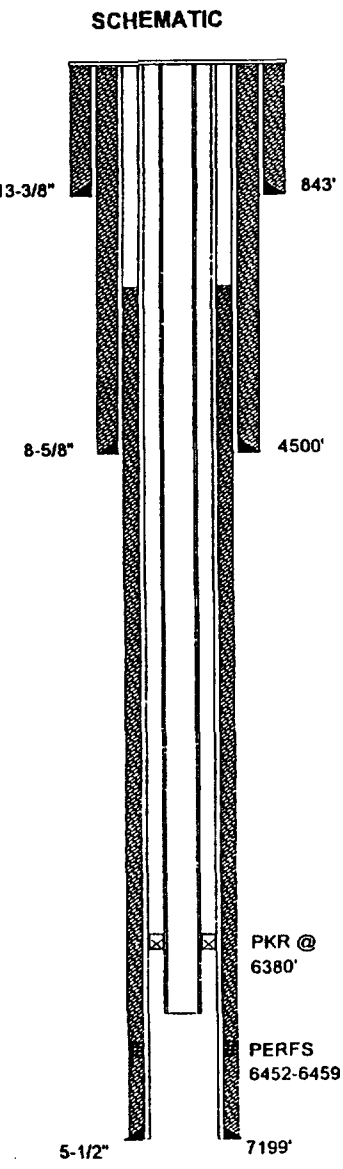
PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P.

LEASE: LUSK DEEP UNIT "A"

WELL NO 14 330' FSL & 1980' FEL SEC-20 T-19-S R-32-E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 850 SX

TOC: 2320 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6452 FEET TO: 6459 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6380 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

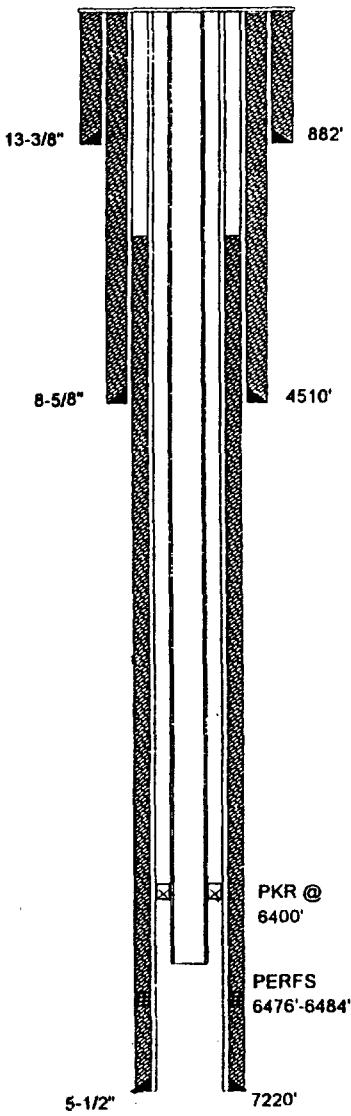
FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 17 330' FNL & 330' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 1450 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 2790 FEET DETERMINED BY: CALCULATED
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6476 FEET TO: 6484 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7224 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA
A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)
C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)
D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

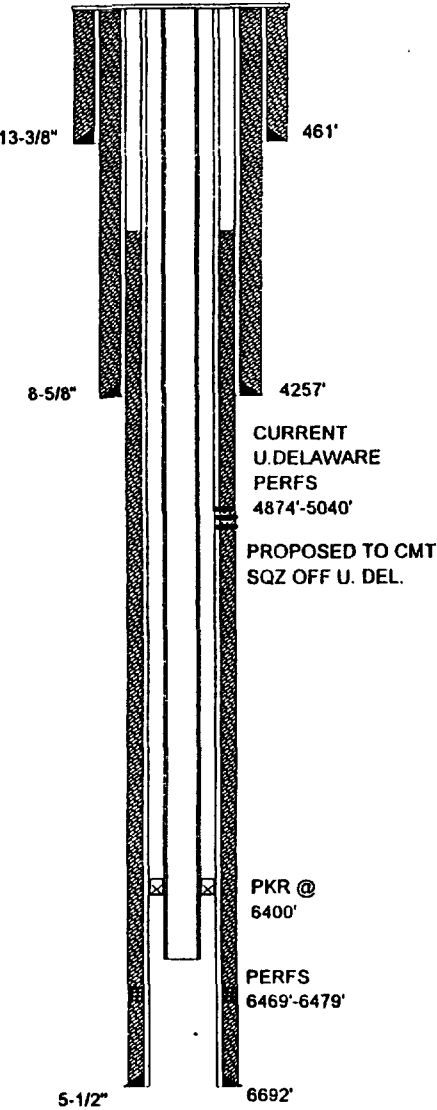
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 1 1650' FNL & 330' FWL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIAE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 860 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 875 SX
TOC: 4248 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6479 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6700 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO X
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USE YES 4/92 PERFS 4904', 4984'-5006', 5012'-5040' CIBP @ 5183'
5/92 PERFS 4874'-4892' CIBP @ 4940', CURRENTLY PRODUCING FROM U. DELAWARE PERFS 4874'-4892'

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

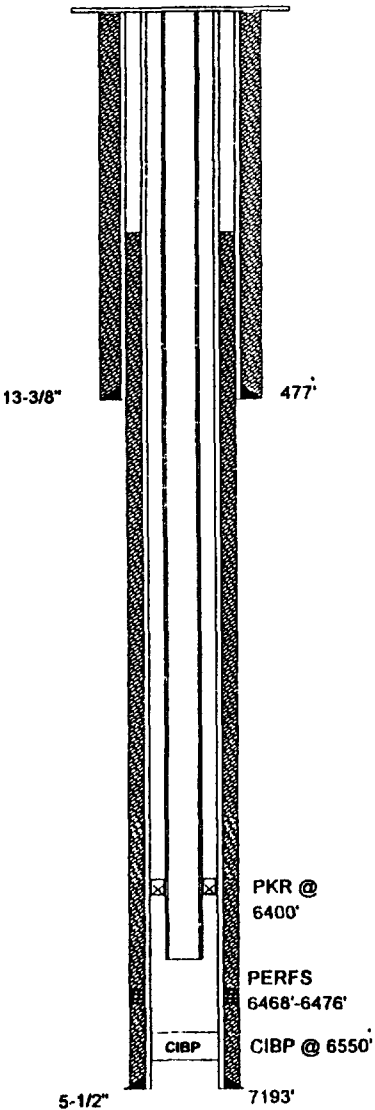
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: SHACKELFORD OIL CO. LEASE: MOBIL FEDERAL

WELL NO 4 1650' FWL & 2310' FSL SEC-21 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX
TOC: N/A FEET DETERMINED BY: N/A
HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2620 SX
TOC: Surface FEET DETERMINED BY: Circulated
NOTE: 1" PLUG TO 1336' CMT'D W/720 SXS TO CIRCULATE.
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6468 FEET TO: 6476 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO X
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

SHACKELFORD OIL

AMOCO FEDERAL

OPERATOR

LEASE

1

660' FNL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

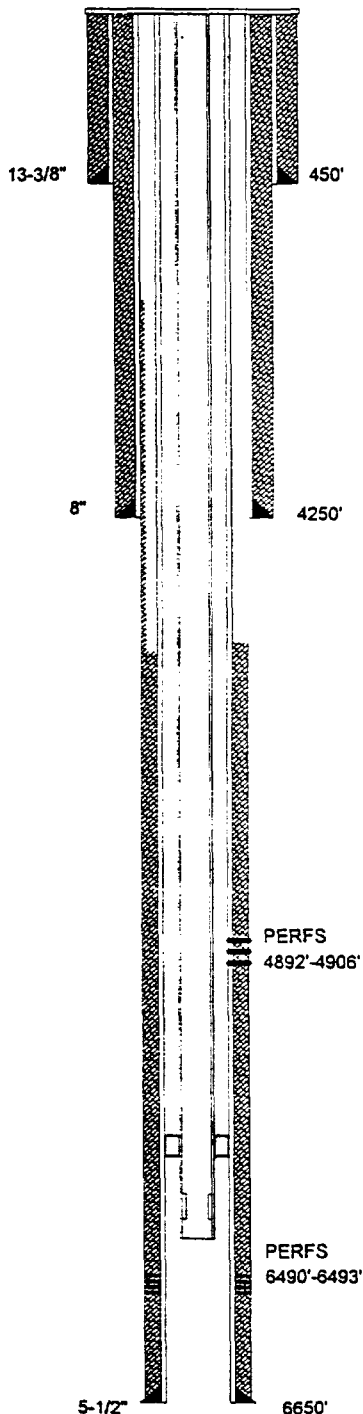
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

9/23/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8 INCHES CEMENTED WITH: 2150 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 525 sx

TOC: 4550 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6650 FEET

5. PERFORATIONS

6490 FEET TO: 6493 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

2

1650' FNL & 1650' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

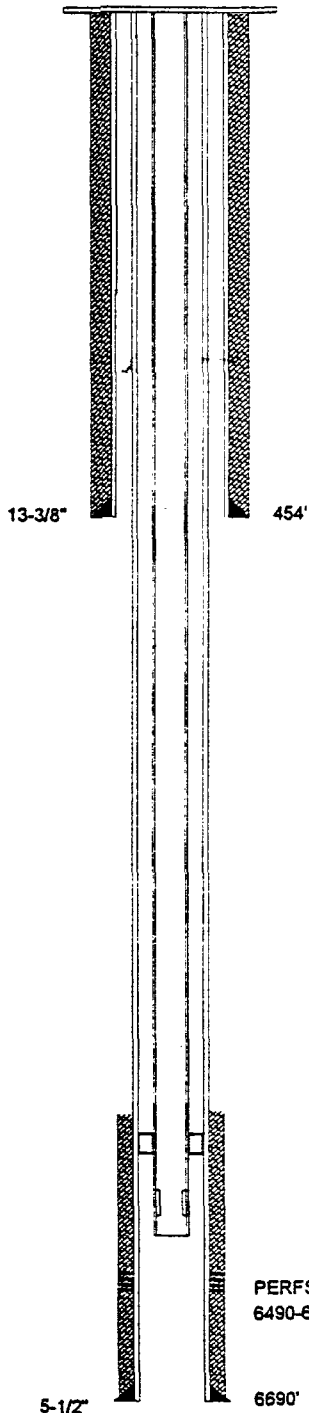
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

8/30/88

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 165 SXTOC: 5997 FEET DETERMINED BY: CalculationHOLE SIZE: 11 & 7-7/8 INCHES4. TOTAL DEPTH: 6690 FEET

5. PERFORATIONS

6490 FEET TO: 6495 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

PLAINS UNIT

OPERATOR

LEASE

6

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

7/10/96

TABULAR DATA

SCHEMATIC

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 275 sx

TOC: 3335 FEET DETERMINED BY: Calculated

HOLE SIZE: 11 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 sx

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

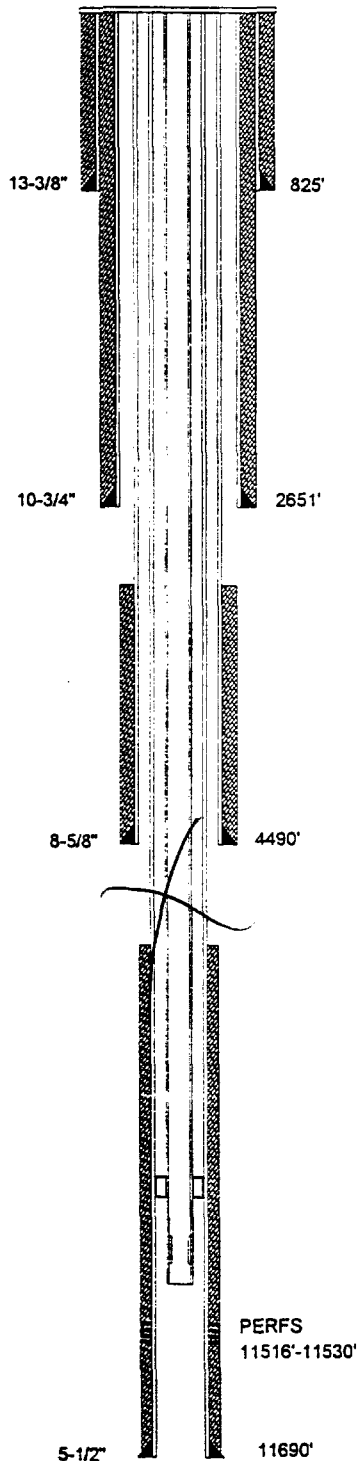
5. TOTAL DEPTH: 11690 FEET

6. PERFORATIONS

11516 FEET TO: 11530 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108

SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

3

2310' FSL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

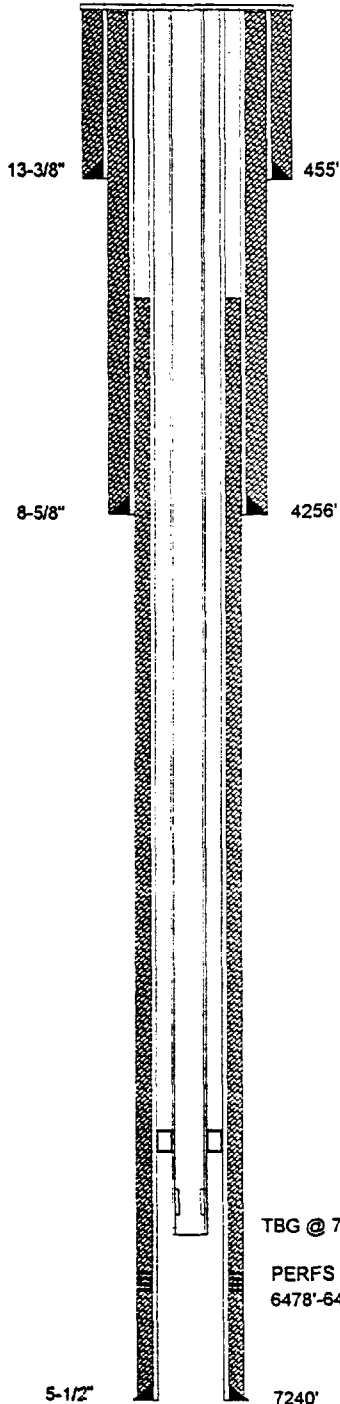
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

10/25/89

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1090 SX

TOC: 150 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1000 SX

TOC: 3240 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7240 FEET

5. PERFORATIONS

6478 FEET TO: 6485 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

2

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

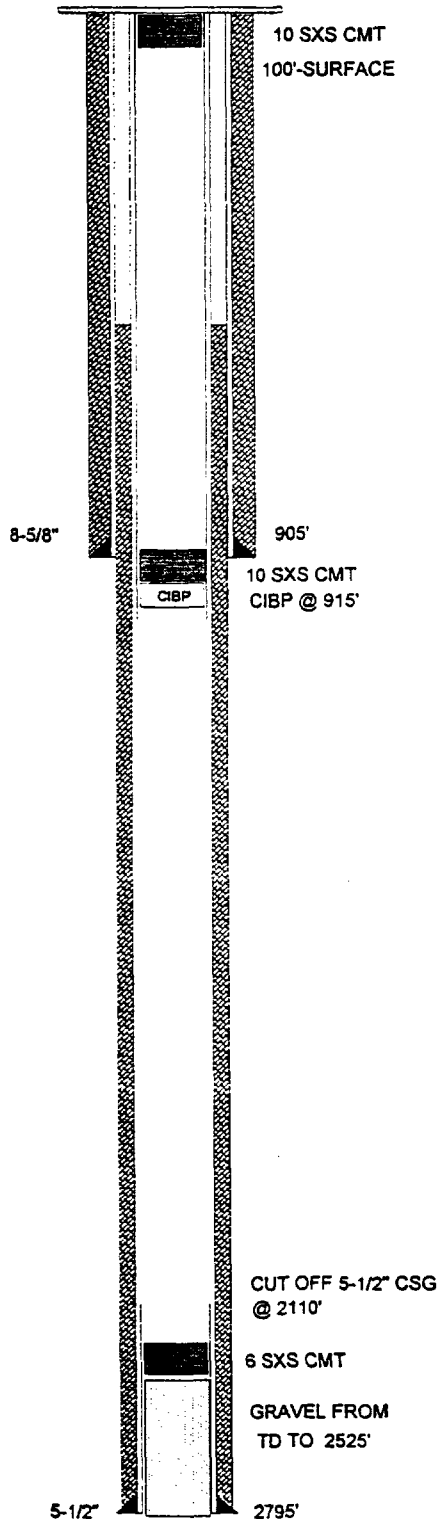
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

4/11/42

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A S-TOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 100 SXTOC: 2400 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 2820 FEET

5. PERFORATIONS

2680 FEET TO: 2955 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

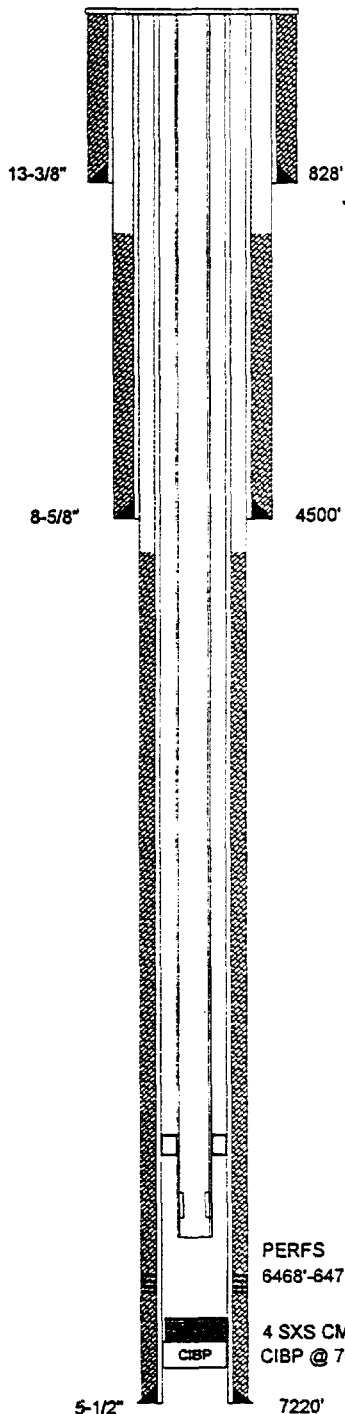
OPERATOR

LEASE

15	1651' FNL & 330' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 11/22/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 SX

TOC: 2370 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 4690 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6478 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

LUSK DEEP UNIT "A"

OPERATOR

LEASE

4

1980' FSL & 1980' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

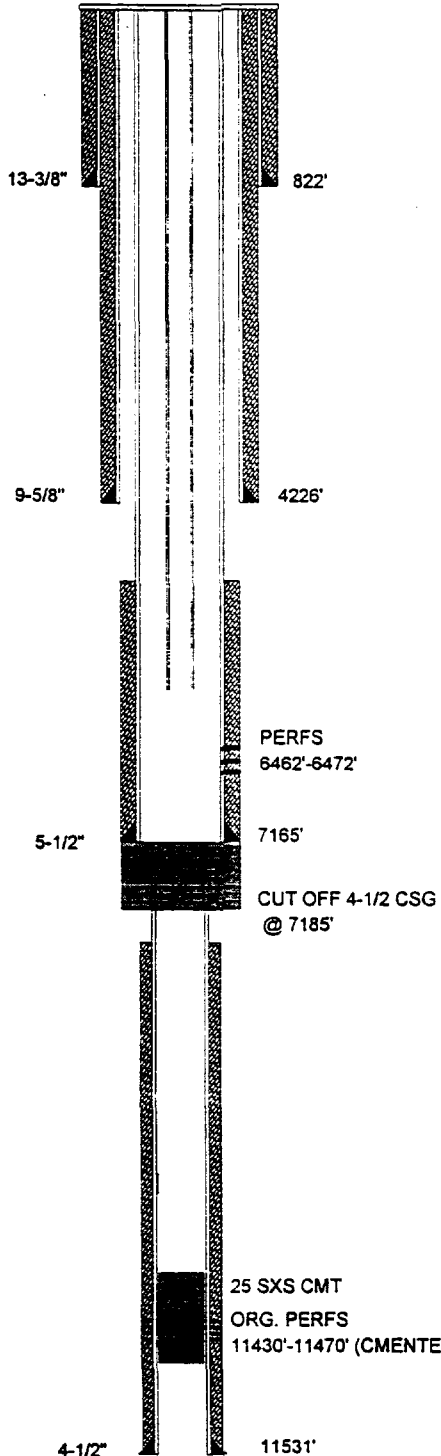
RANGE

TYPE OF WELL: PRODUCING OIL AND GAS WELL

SPUD DATE: 10/5/62 RE-ENTRY 3/13/88

TABULAR DATA

SCHEMATIC



1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1180 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 2365 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

NOTE: 6/88 CUT AND PULLED 7185' OF 4-1/2 CSG

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 SX

TOC: 10000 FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. PRODUCTION STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 500 SX

TOC: 5595 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11531 FEET

6. PERFORATIONS

6462 FEET TO: 6472 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

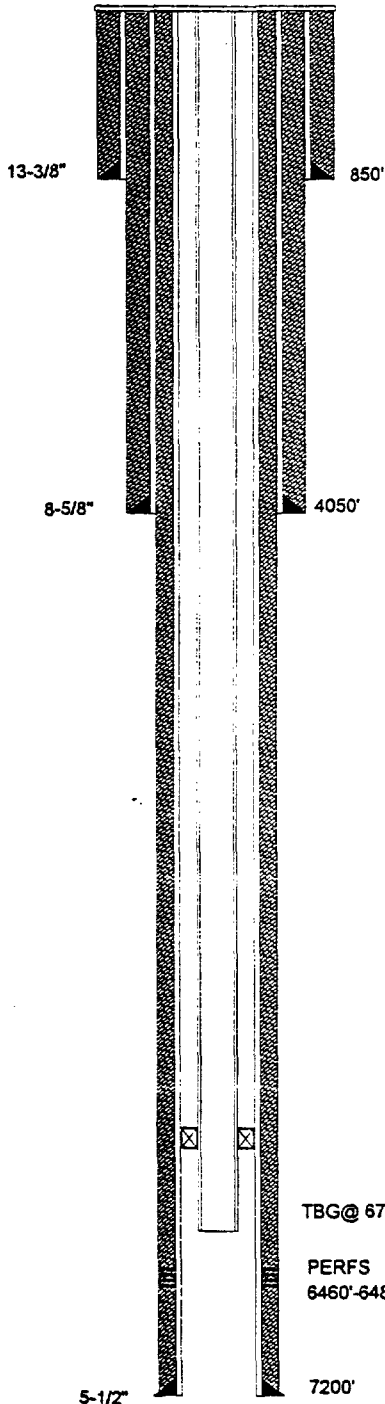
OPERATOR

LEASE

21	990' FSL & 660' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL:	PRODUCING OIL AND GAS WELL	SPUD DATE:	1997
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SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1530 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6460 FEET TO: 6480 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

CULBERTSON-IRWIN INC.

LYNCH

OPERATOR

LEASE

4

660' FSL & 660' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

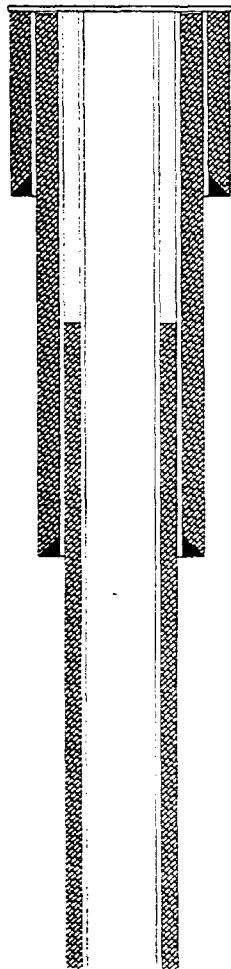
RANGE

TYPE OF WELL:

DRY HOLE

SPUD DATE: 10/30/43

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: UNKNOWN SX

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN SX

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN SX

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

4. TOTAL DEPTH: 2820 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

UNKNOWN

FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240

WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

KERSEY & CO.

ATLANTIC

OPERATOR

LEASE

1

1650' FSL & 990' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

DRY HOLE

SPUD DATE:

9/18/59

SCHEMATIC

TABULAR DATA

CEMENT MARKER

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 60 SX

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: PULLED INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: PULLED INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

4. TOTAL DEPTH: 2710 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

N/A

FILLED WITH MUD

8-5/8"

917'

10 SXS CMT, PLUG

FILLED WITH MUD

10 SXS CMT, PLUG

2710'

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

1

660' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

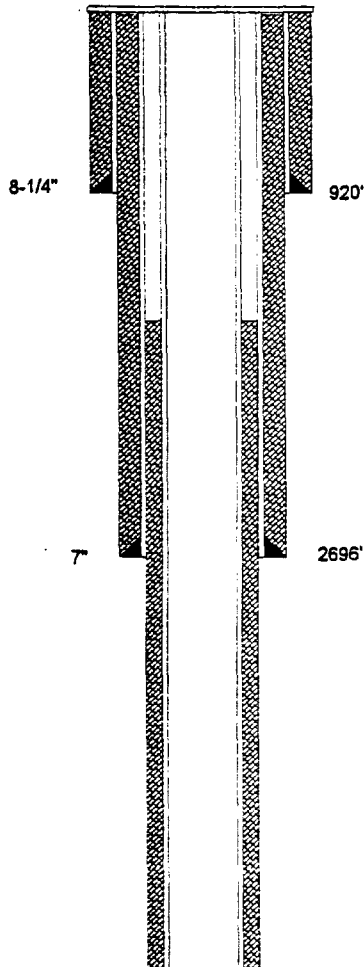
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

12/18/41

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 8-1/4 INCHES CEMENTED WITH: 50 sxTOC: UNKNOWN FEET DETERMINED BY: UNKNOWNHOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: 7 INCHES CEMENTED WITH: 100 sxTOC: UNKNOWN FEET DETERMINED BY: UNKNOWNHOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sxTOC: UNKNOWN FEET DETERMINED BY: UNKNOWNHOLE SIZE: UNKNOWN INCHES4. TOTAL DEPTH: 2751 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.UNKNOWN

FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240

WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4 - X

710' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

1/4/64

TABULAR DATA

SCHEMATIC

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 250 SX

TOC: 3500 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 9-7/8 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 SX

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11514 FEET

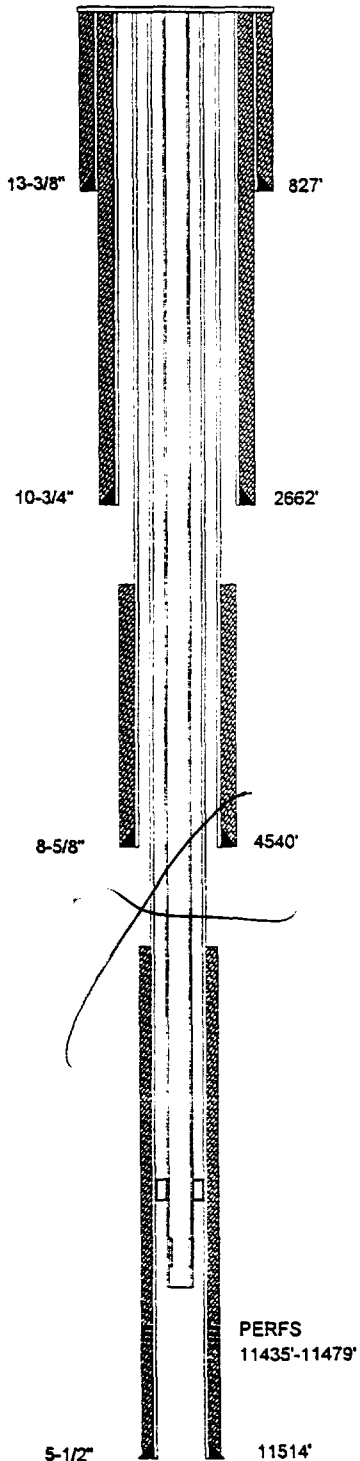
6. PERFORATIONS

11435 FEET TO: 11479 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108

SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4

1930' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

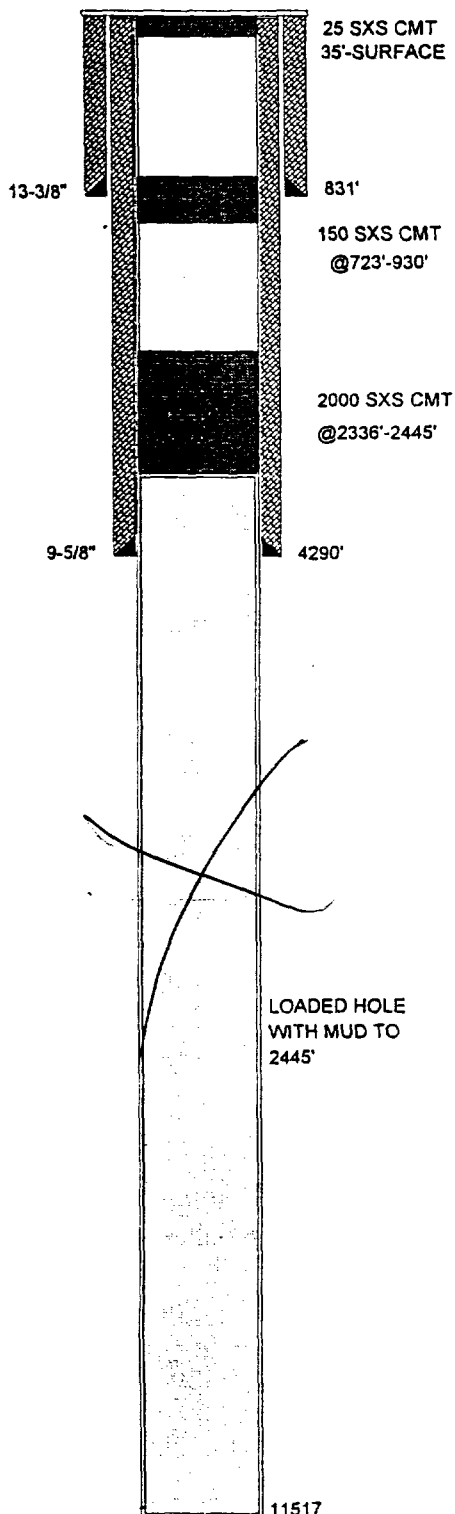
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

9/12/63

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 725 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: INCHES

4. TOTAL DEPTH: 11517 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED

DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108

SECTION VI

APPLICATION FOR AUTHORIZATION

TO INJECT

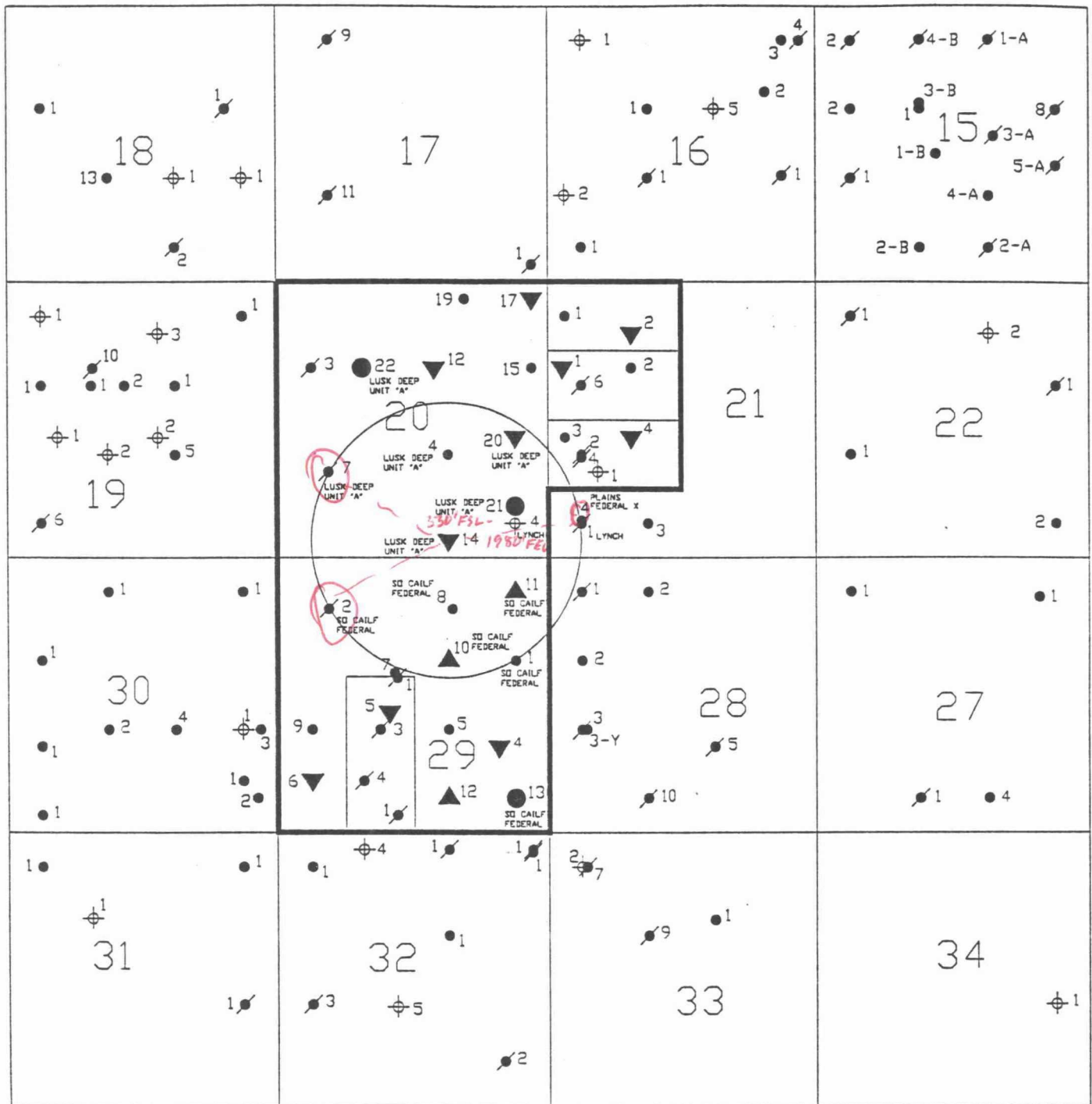
Parker & Parsley

Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SECTION V



PROPOSED INJECTION WELL DATA SHEET

OPERATOR:

Parker & Parsley Development L.P.

LEASE:

LUSK DEEP UNIT "A"

WELL NO

14

330' FSL & 1980' FEL

SEC-20

T-19-S

R-32-E

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SCHEMATIC

13-3/8"

843'

8-5/8"

4500'

5-1/2"

7199'

PKR @ 6380'

PERFS 6452-6459

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 850 SX

TOC: 2320 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6452 FEET TO: 6459 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6380 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800' WATKINS YATES N.E. LUSK YATES S. LUSK YATES

2. DELAWARE 4600'-7100' W. LUSK DELAWARE LUSK DELAWARE

3. BONE SPRING 8200'-8950' WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING

4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL

5. STRAWN 11000'-11200' LUSK STRAWN OIL

6. ATOKA 11200'-11400' LUSK ATOKA GAS

7. MORROW 11500'-12000' LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS

FORM C-108

SECTION III

APPLICATION FOR AUTHORIZATION

TO INJECT

Parker & Parsley Development L.P.

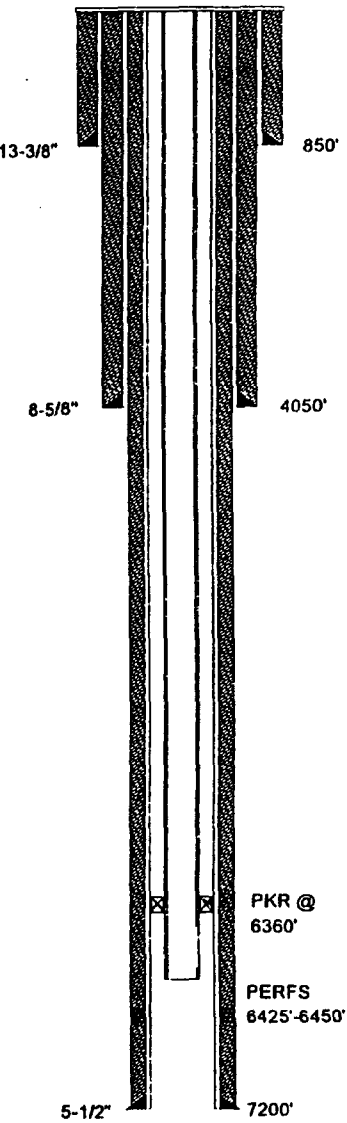
WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 11 660' FNL & 660' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) : LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

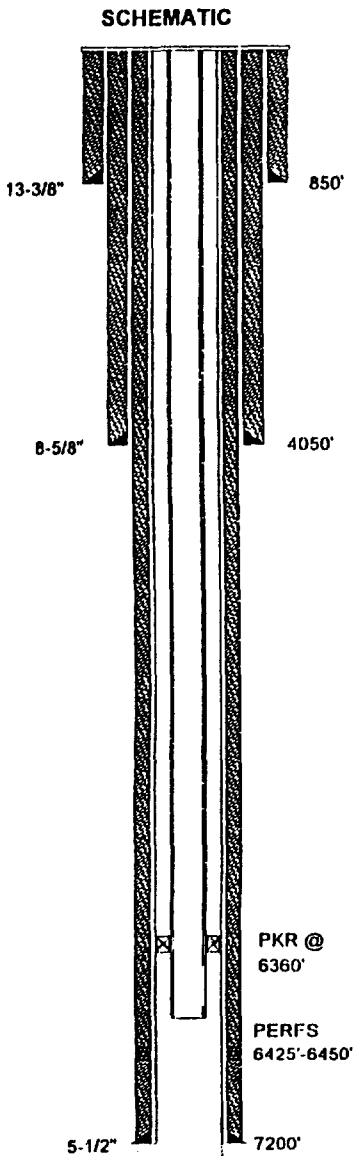
E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 10 1980' FNL & 1980' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHIICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED IINTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

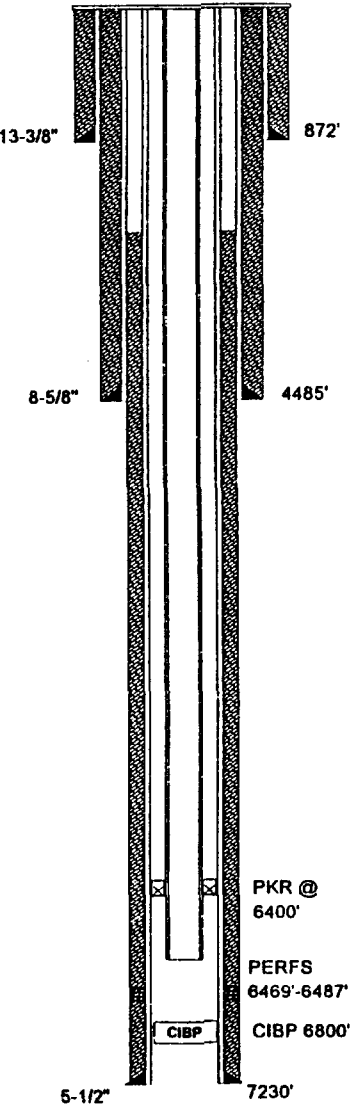
FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 20 660' FEL & 2310' FSL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 3030 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6469 FEET TO: 6487 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7230 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 7050'-7154', SET CIBP, WITH 4 SK. CMT. ON TOP AT 6800'

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

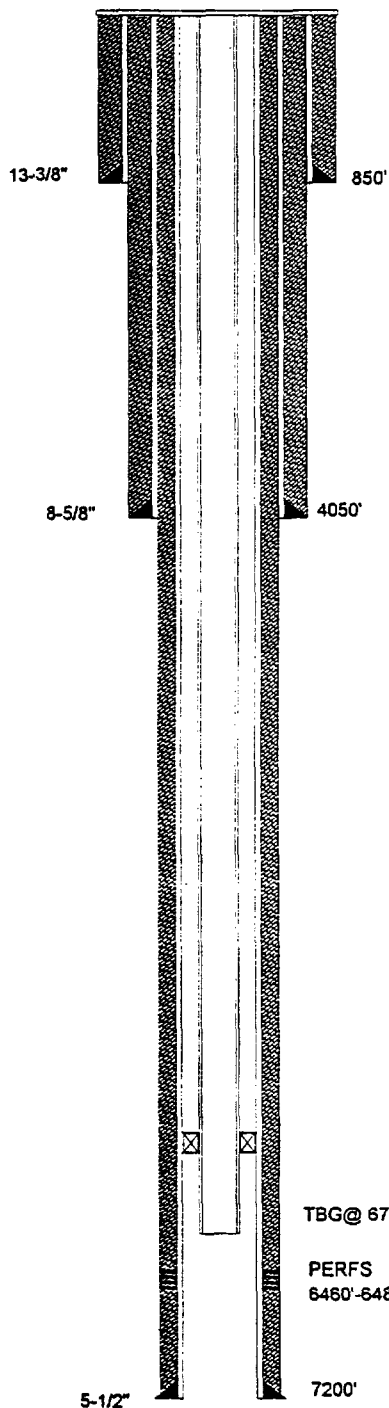
OPERATOR

LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
21	990' FSL & 660' FEL	SEC-20	T-19-S	R-32-E

TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 1997

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1530 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6460 FEET TO: 6480 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

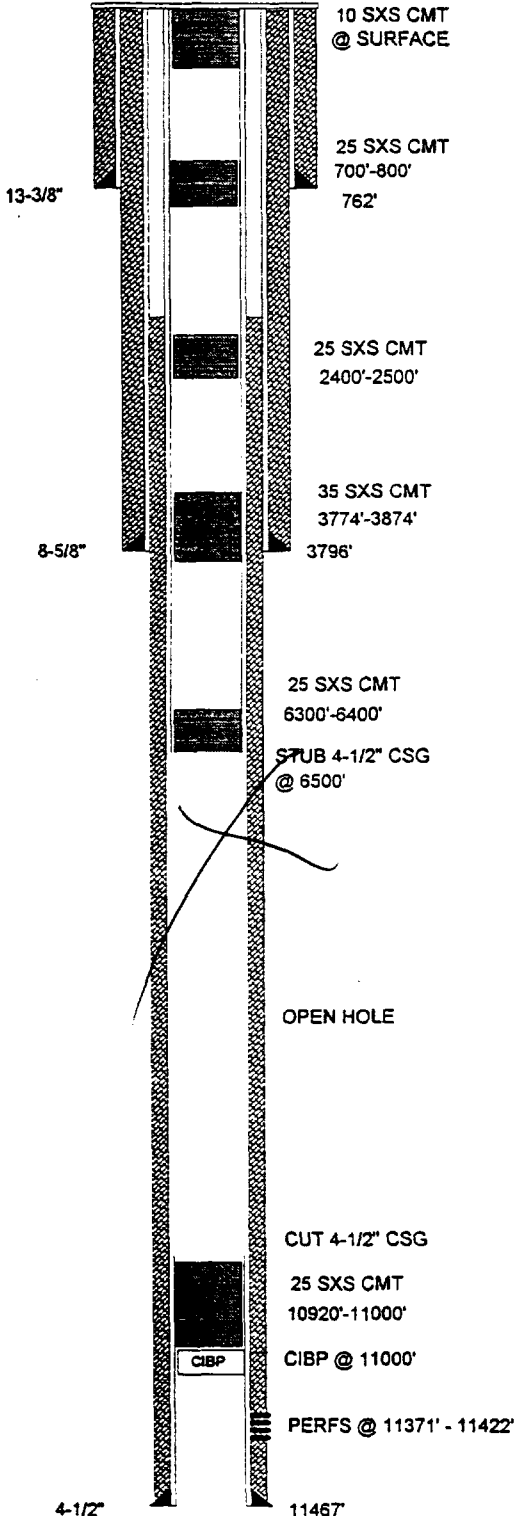
**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

7	1650' FSL & 990' FWL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PLUGGED & ABANDONED		SPUD DATE: 2/11/64		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 775 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 7600 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11467 FEET

5. PERFORATIONS

11371 FEET TO: 11422 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

1650
- 330
1320

4 1/2 280
- 1480
3300
- 1650
1650

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

21131

**Parker & Parsley
Development L.P.**

OPERATOR

SOUTHERN CALIFORNIA FEDERAL

LEASE

2

990' FNL & 990' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

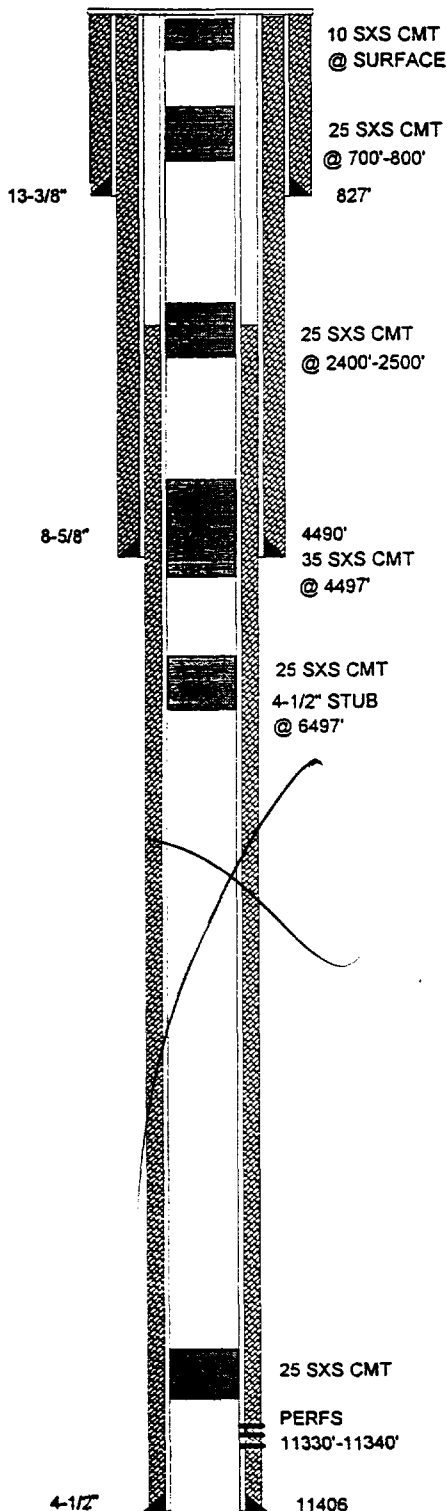
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

3/15/63

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 SX

TOC: 10100 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

CULBERTSON-IRWIN INC.

LYNCH

OPERATOR

LEASE

4

660' FSL & 660' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

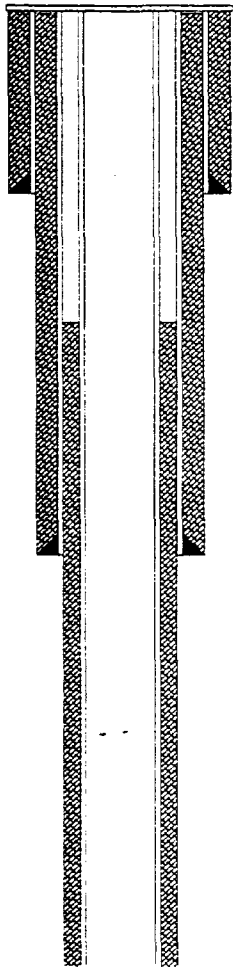
TYPE OF WELL:

DRY HOLE

SPUD DATE:

10/30/43

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

4. TOTAL DEPTH: 2820 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

UNKNOWN

FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240

WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

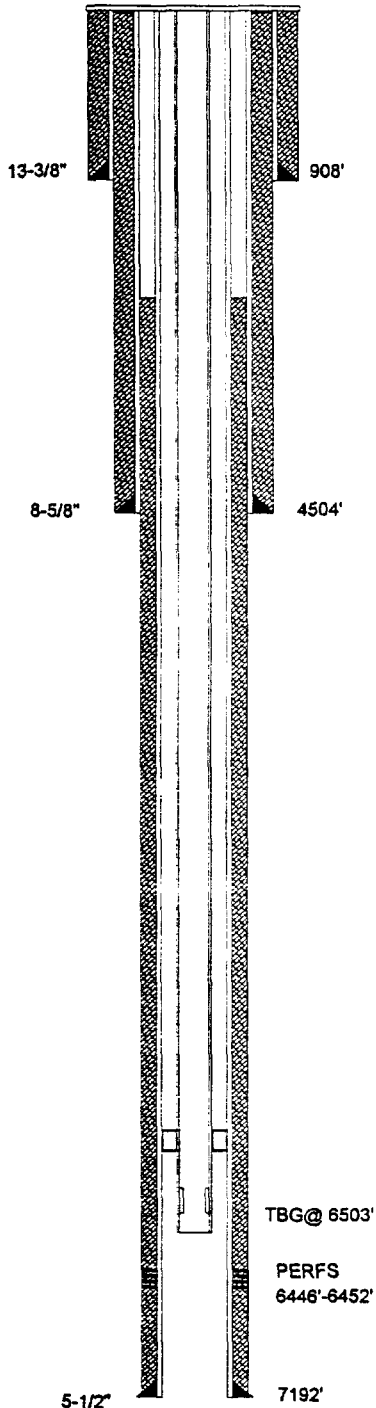
OPERATOR

LEASE

8	990' FNL & 1900' FEL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

 TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 4/16/88

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 722 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2700 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SXTOC: 2280 FEET DETERMINED BY: Cmt Bond LogHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6446 FEET TO: 6452 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

 FORM C-108
 SECTION VI

 APPLICATION FOR AUTHORIZATION
 TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

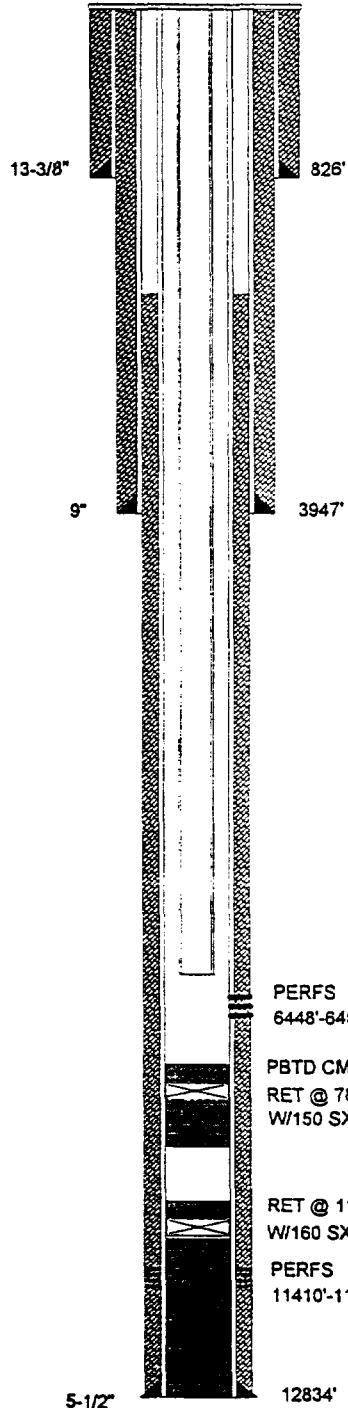
TABULATION OF WELL DATA

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR		LEASE		
1	1980' FNL & 660' FEL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 3/23/62		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 950 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9 INCHES CEMENTED WITH: 2725 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2140 SX
 TOC: 2450 FEET DETERMINED BY: est. top of cmt sqz.
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12834 FEET

5. PERFORATIONS

6448 FEET TO: 6458 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

PERFS
 6448'-6458'

PBTD CMT @ 6850'
 RET @ 7812'
 W/150 SXS

RET @ 11292'
 W/160 SXS

PERFS
 11410'-11430'

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

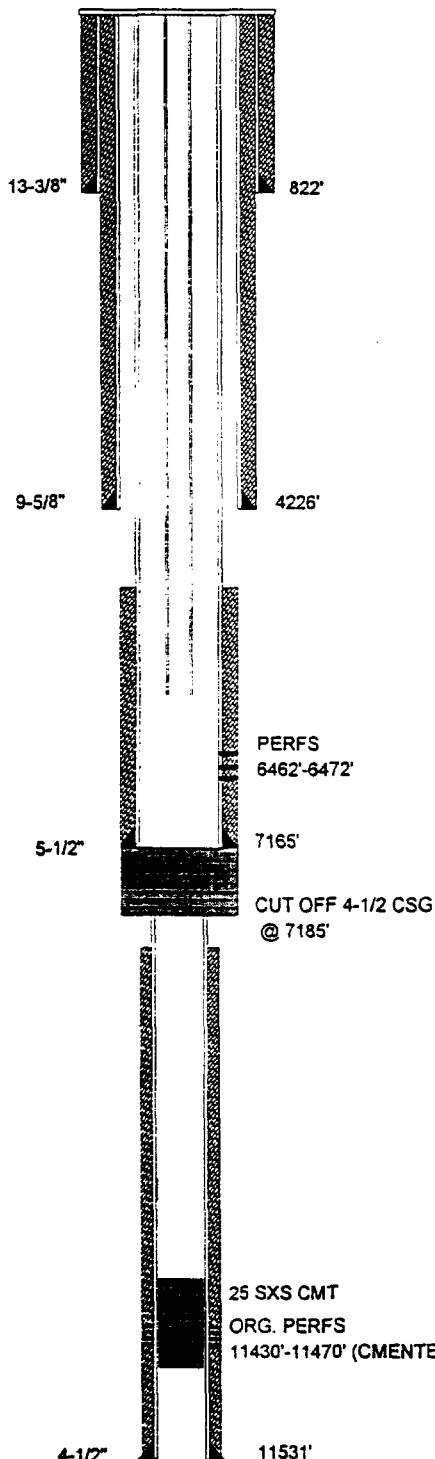
**Parker & Parsley
Development L.P.**

LUSK DEEP UNIT "A"

OPERATOR	LEASE			
4	1980' FSL & 1980' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 10/5/62 RE-ENTRY 3/13/88		

TABULAR DATA

SCHEMATIC



1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1180 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 2365 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

NOTE: 6/88 CUT AND PULLED 7185' OF 4-1/2 CSG

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 SX

TOC: 10000 FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. PRODUCTION STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 500 SX

TOC: 5595 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11531 FEET

6. PERFORATIONS

6462 FEET TO: 6472 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL
TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4 - X

710' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

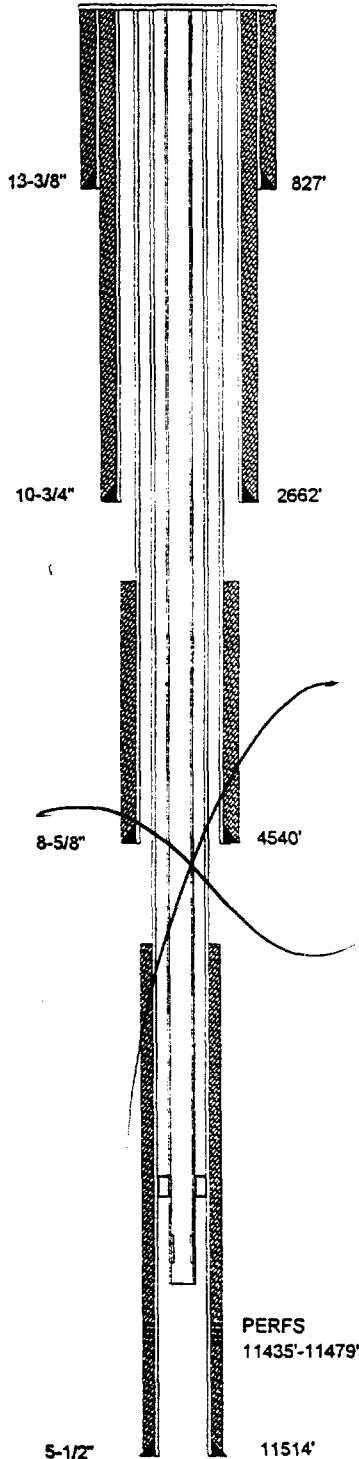
PRODUCING OIL AND GAS WELL

SPUD DATE:

1/4/64

TABULAR DATA

SCHEMATIC



1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 250 SXTOC: 3500 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 9-7/8 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 SXTOC: 10714 FEET DETERMINED BY: CalculatedHOLE SIZE: 7-7/8 INCHES5. TOTAL DEPTH: 11514 FEET

6. PERFORATIONS

11435 FEET TO: 11479 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
 SECTION VI
 APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL
 TABULATION OF WELL DATA

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

1

660' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

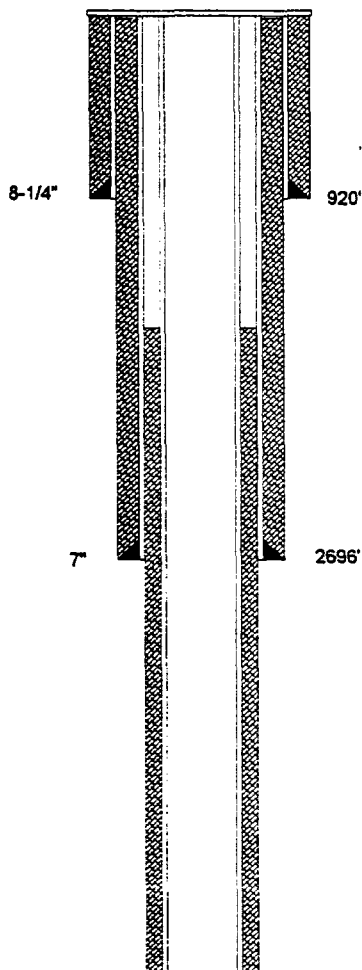
RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE: 12/18/41

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-1/4 INCHES CEMENTED WITH: 50 sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: 7 INCHES CEMENTED WITH: 100 sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

4. TOTAL DEPTH: 2751 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

UNKNOWN

FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240

WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

FORM C-108
SECTION VI

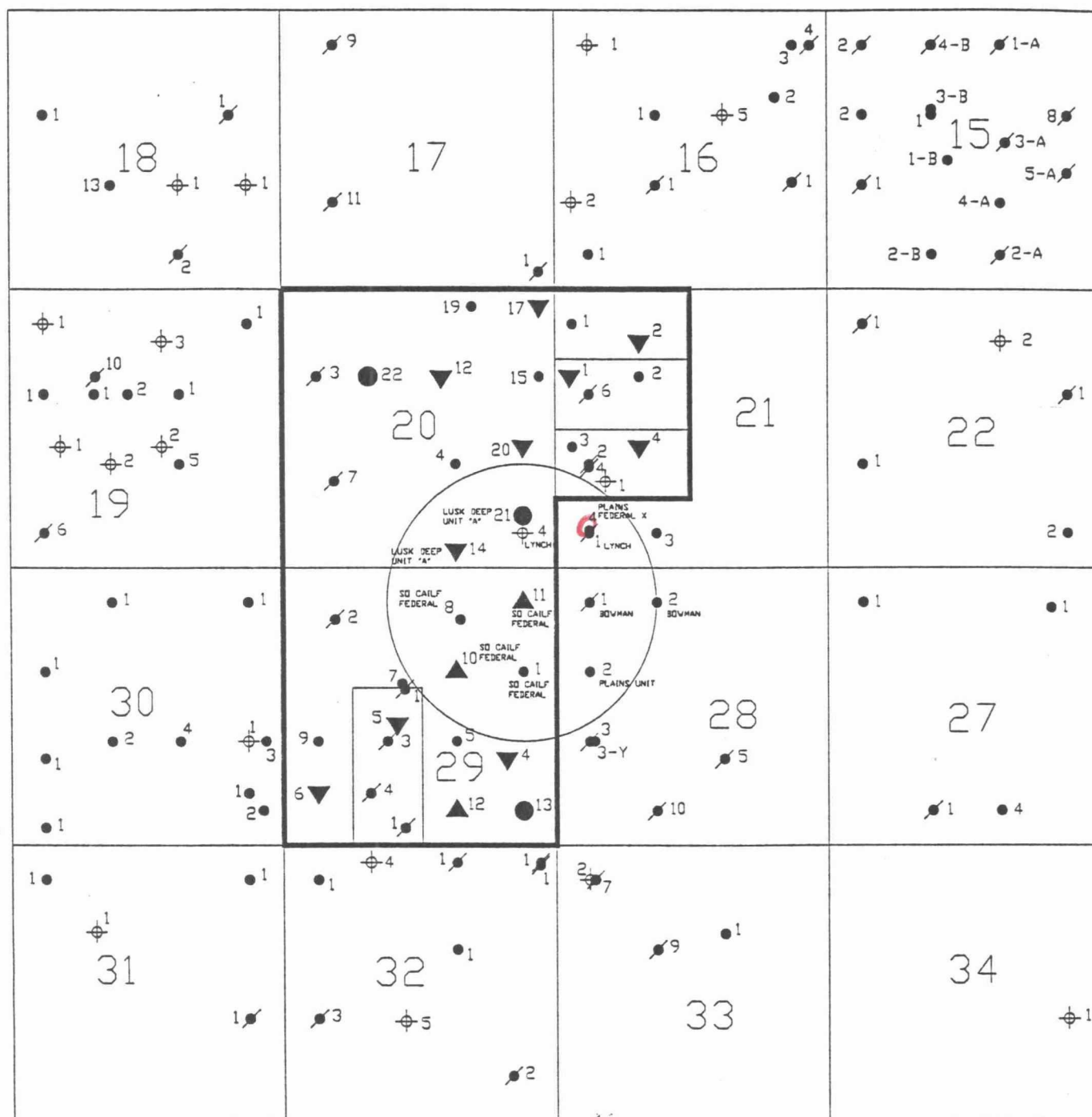
APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SECTION V



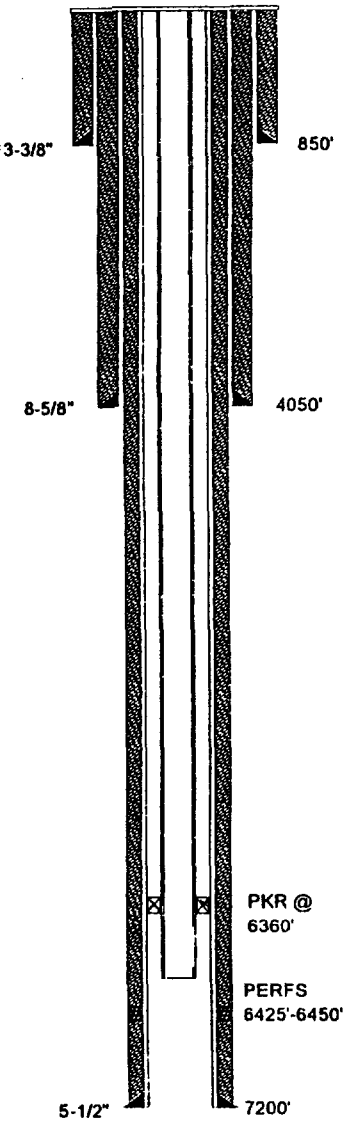
PERFORATED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 11 660' FNL & 660' FEL SEC-29 T-19-S R-32-E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

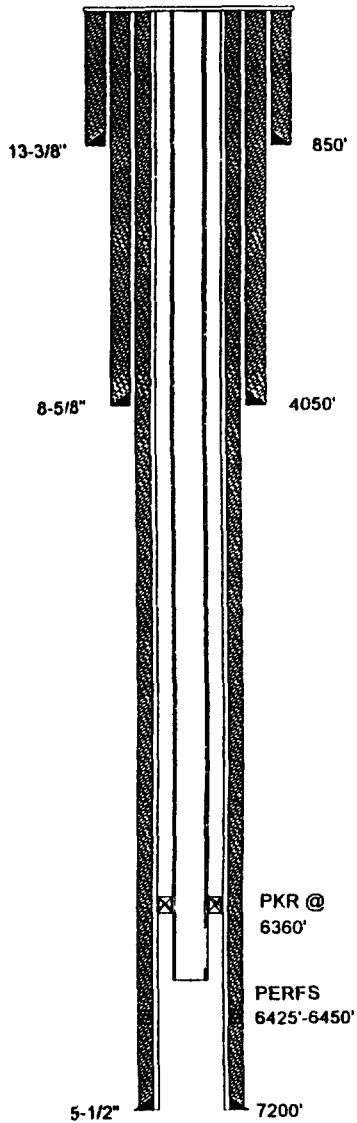
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PF USED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 10 1980' FNL & 1980' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

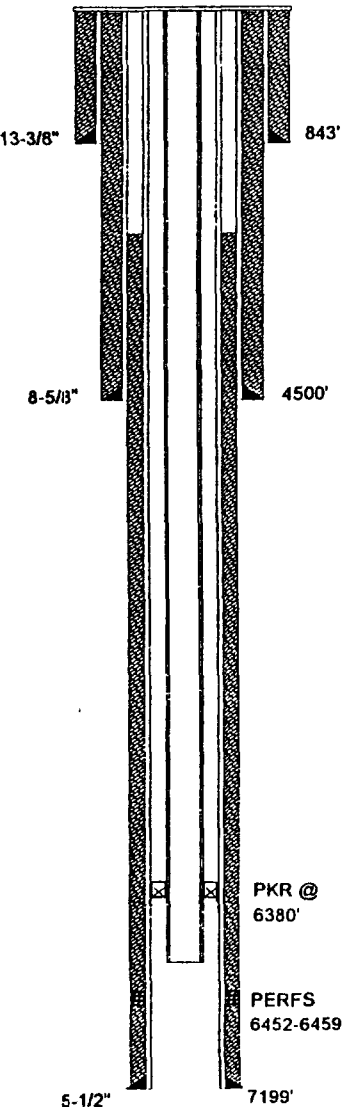
FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

PROCESSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 14 330' FSL & 1980' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SURFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 850 SX
TOC: 2320 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6452 FEET TO: 6459 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6380 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

WELL DATA SHEET

SHACKELFORD OIL

OPERATOR

LYNCH

LEASE

1

660' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

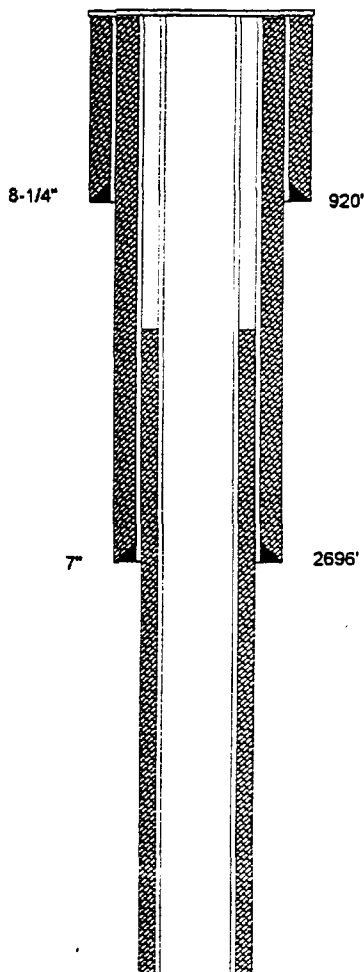
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

12/18/41

SCHMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-1/4 INCHES CEMENTED WITH: 50 SX

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: 7 INCHES CEMENTED WITH: 100 SX

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN SX

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

4. TOTAL DEPTH: 2751 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

UNKNOWN

FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240

WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4 - X

710' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

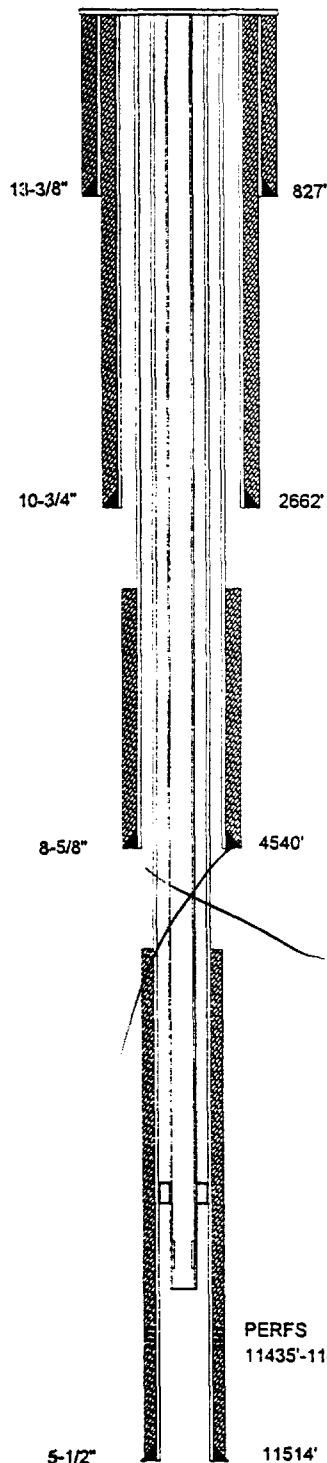
PRODUCING OIL AND GAS WELL

SPUD DATE:

1/4/64

TABULAR DATA

SCHEMATIC



1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 250 SX

TOC: 3500 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 9-7/8 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 SX

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11514 FEET

6. PERFORATIONS

11435 FEET TO: 11479 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

CULBERTSON-IRWIN INC.

BOWMAN

OPERATOR

LEASE

.1
WELL NO.660' FNL & 660' FWL
FOOTAGE LOCATIONSEC-28
SECTIONT-19-S
TOWNSHIPR-32-E
RANGE

TYPE OF WELL:

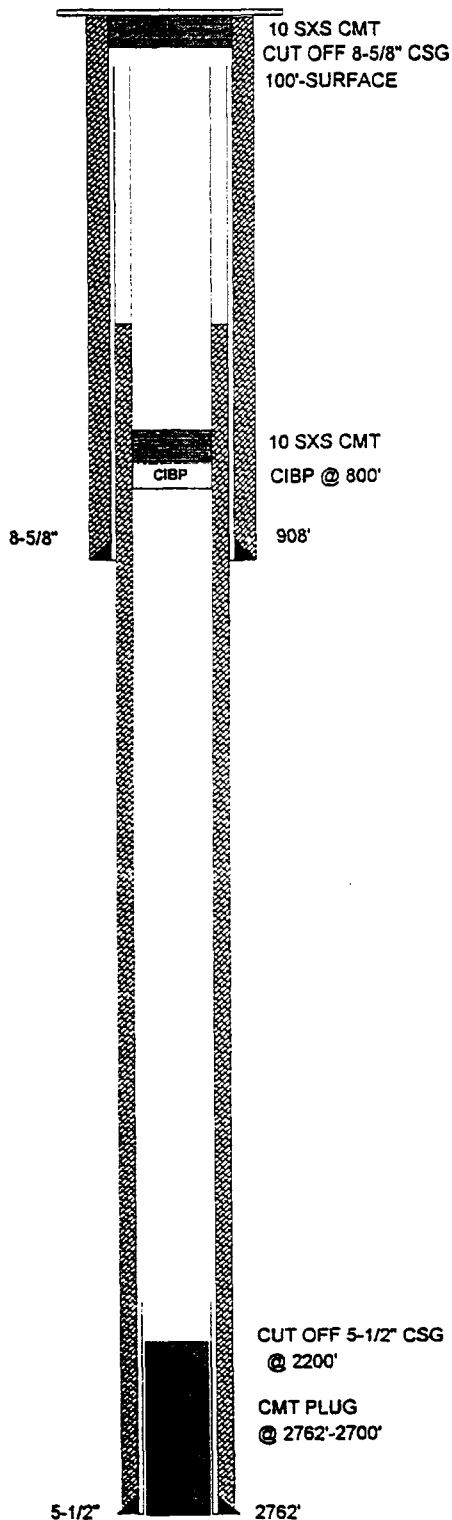
PLUGGED & ABANDONED

SPUD DATE:

2/21/42

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 100 SXTOC: 2391 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 2811 FEET

5. PERFORATIONS

2680 FEET TO: 2955 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

BOWMAN

OPERATOR

LEASE

2

660' FNL & 1980' FWL

SEC-28

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

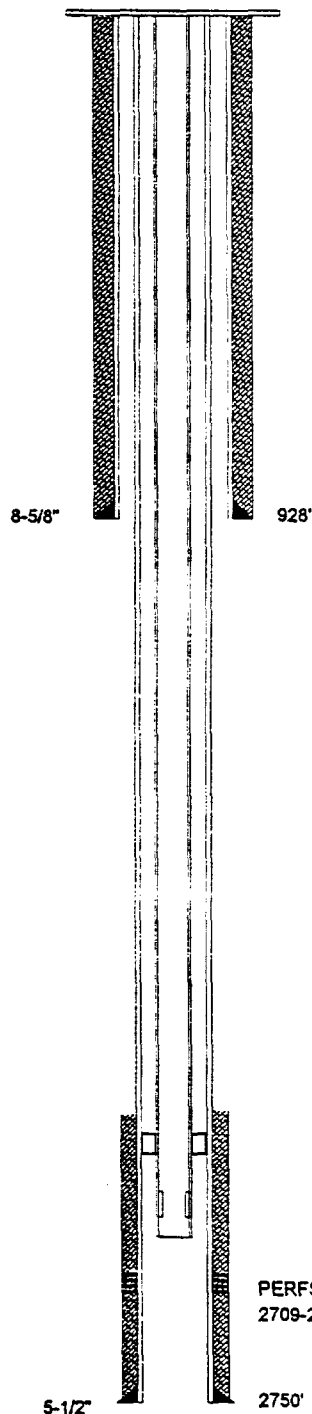
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

9/30/42

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 50 SXTOC: 2540 FEET DETERMINED BY: CalculatedHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 2771 FEET

5. PERFORATIONS

2709 FEET TO: 2750 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

PLAINS UNIT

OPERATOR

LEASE

2

1980' FNL & 660' FWL

SEC-28

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

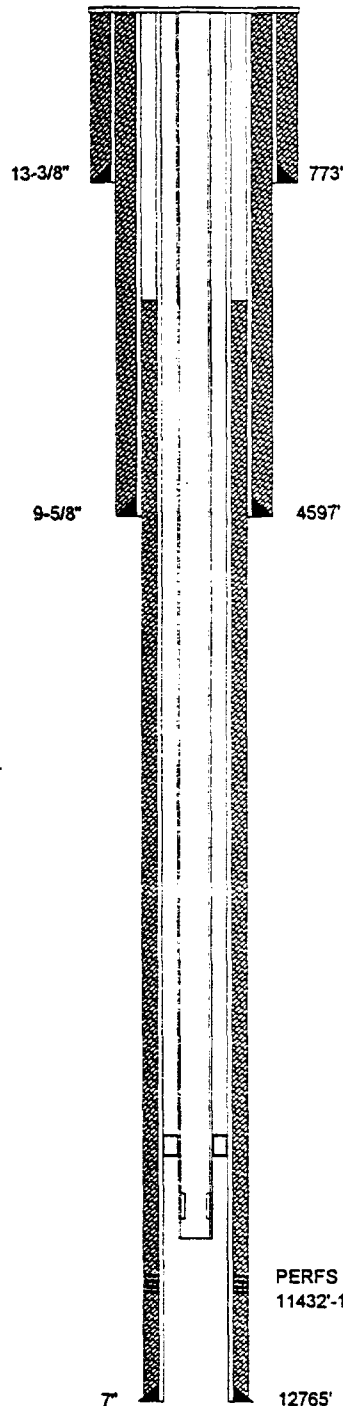
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/19/63

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 4250 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 7 INCHES CEMENTED WITH: 750 SXTOC: 4490 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 12996 FEET

5. PERFORATIONS

11432 FEET TO: 12530 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

1	1980' FNL & 660' FEL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 3/23/62		

SCHEMATIC

TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 950 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9 INCHES CEMENTED WITH: 2725 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

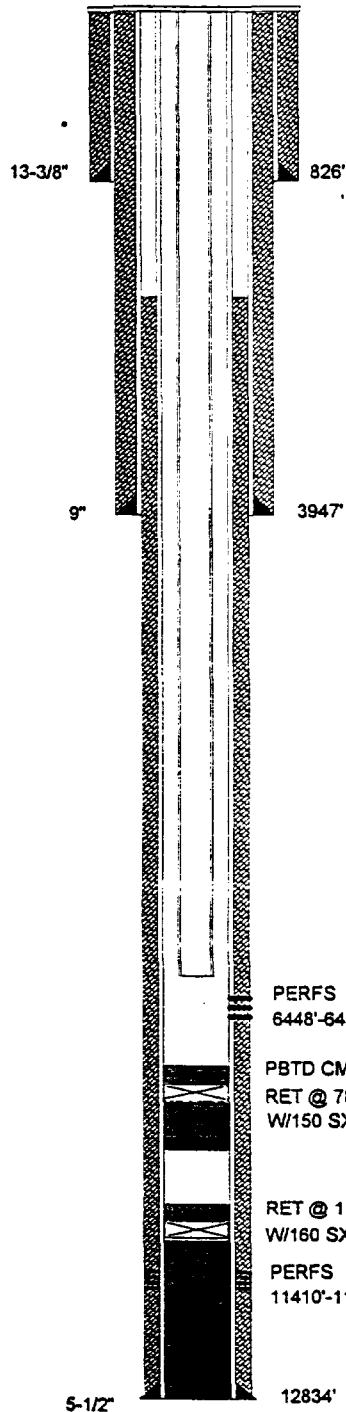
3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2140 **SX**
 TOC: 2450 FEET DETERMINED BY: est. top of cmt sqz.
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12834 FEET

5. PERFORATIONS

6448 FEET TO: 6458 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"



**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

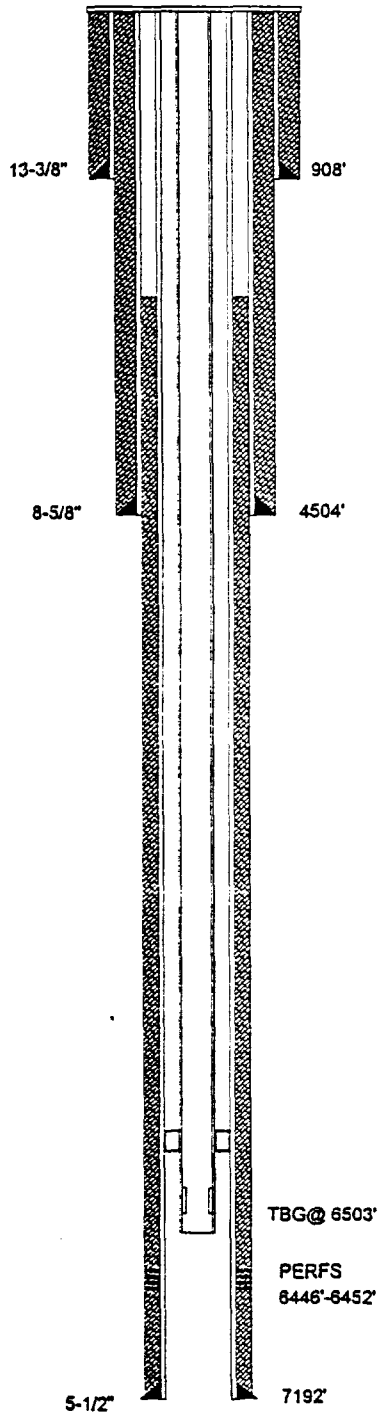
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR	LEASE			
8	990' FNL & 1900' FEL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 4/16/88		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 722 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2700 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 **SX**
 TOC: 2280 FEET DETERMINED BY: Cmt Bond Log
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6446 FEET TO: 6452 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

CULBERTSON-IRWIN INC.

LYNCH

OPERATOR

LEASE

4

660' FSL & 660' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

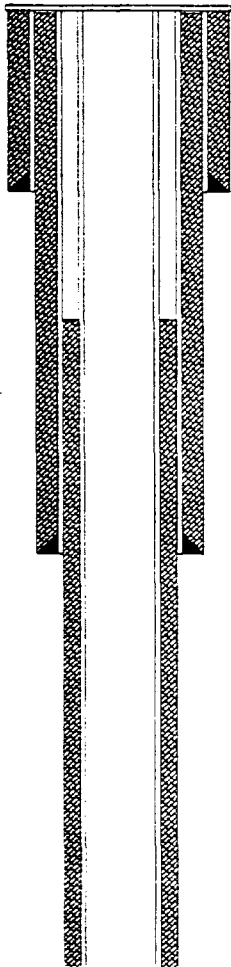
TYPE OF WELL:

DRY HOLE

SPUD DATE:

10/30/43

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

4. TOTAL DEPTH: 2820 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

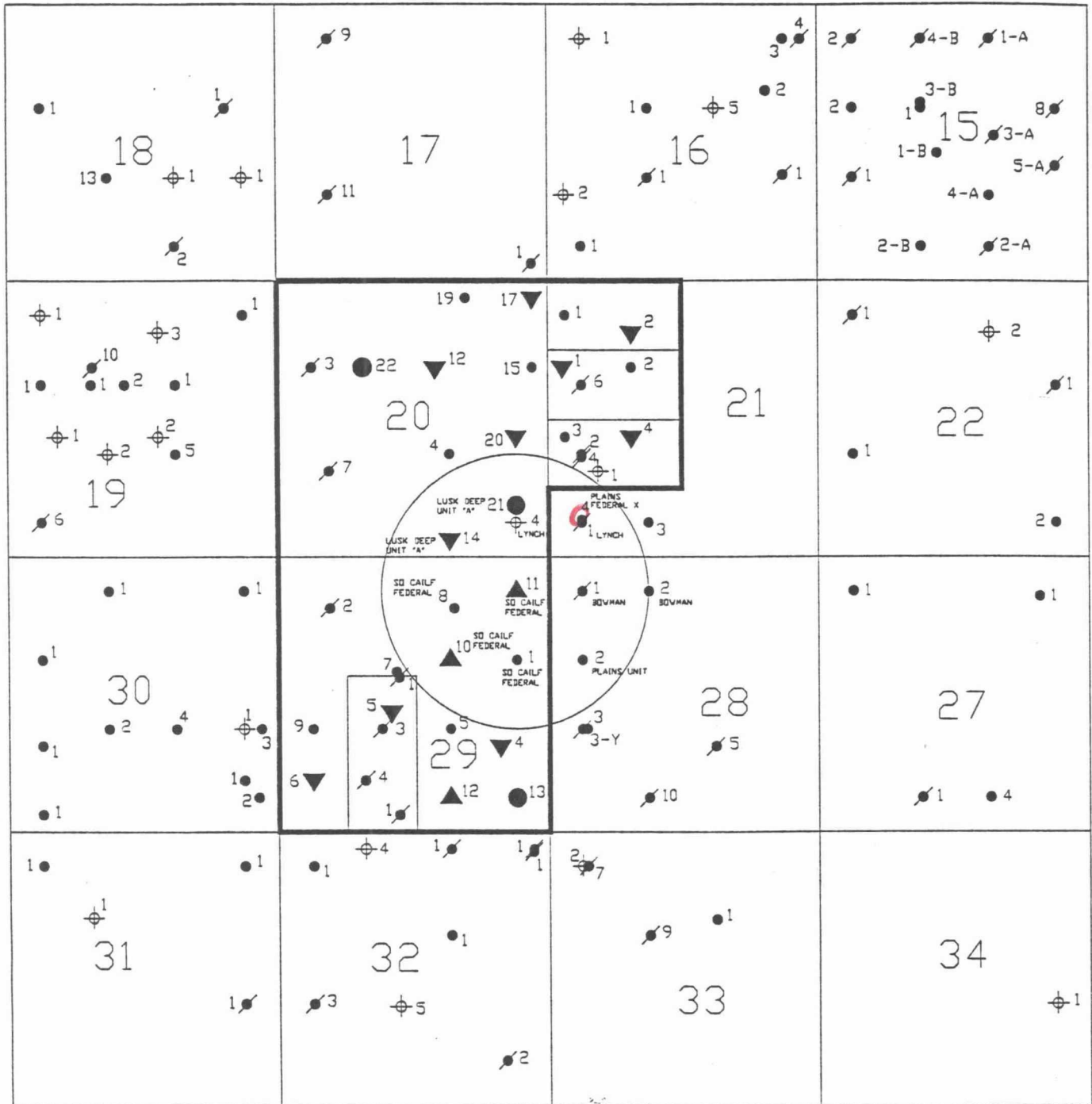
UNKNOWN

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

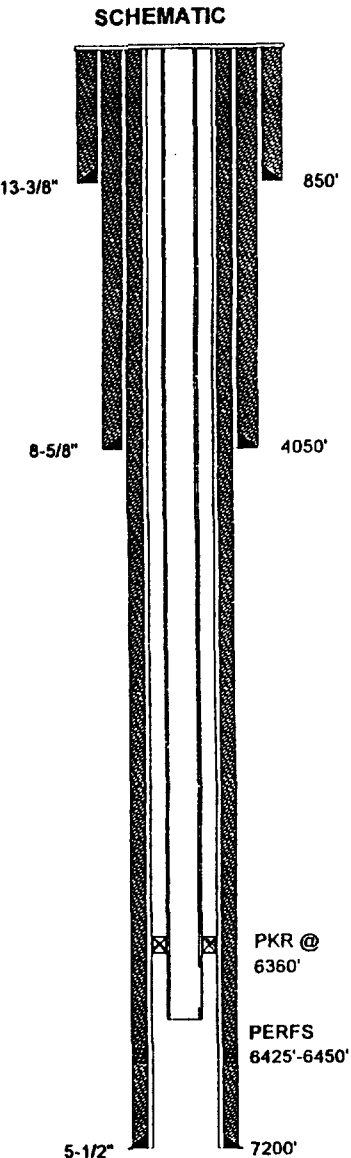
SECTION V



PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 10 1980' FNL & 1980' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

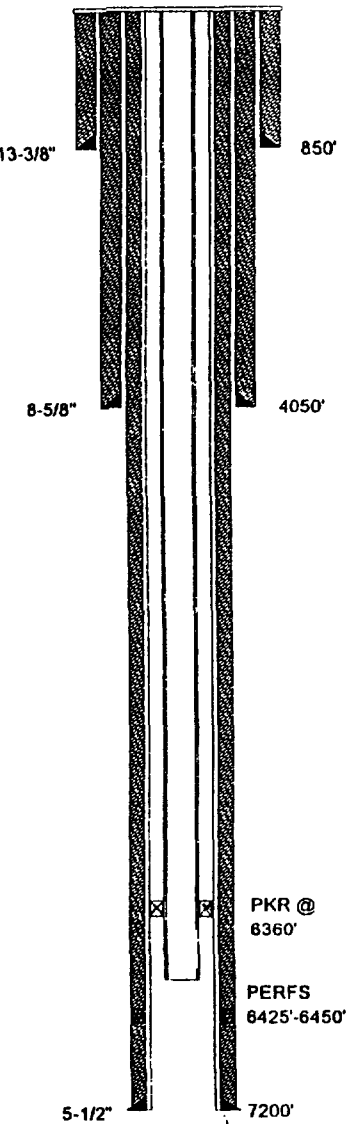
FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 11 660' FNL & 660' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIAE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 12 FOOTAGE LOCATION 1980' FEL & 660' FSL SECTION SEC-29 TOWNSHIP T-19-S RANGE R-32-E

SCHEMATIC

WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

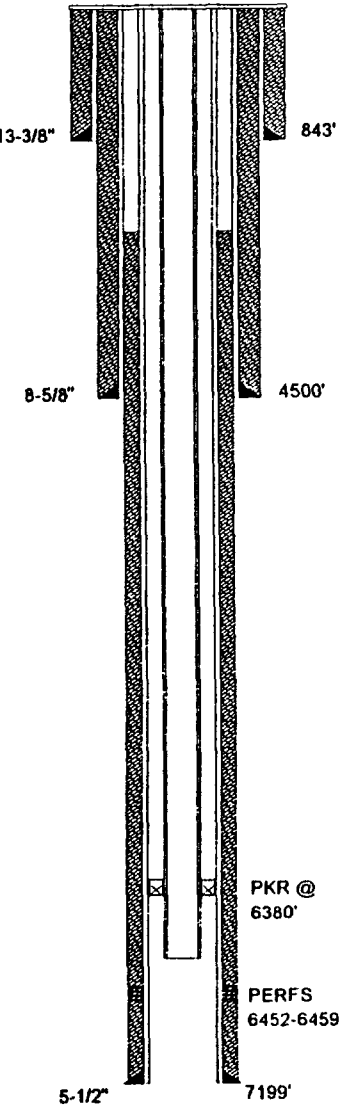
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A"

WELL NO 14 330' FSL & 1980' FEL SEC-20 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SURFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 850 SX
TOC: 2320 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6452 FEET TO: 6459 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6380 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

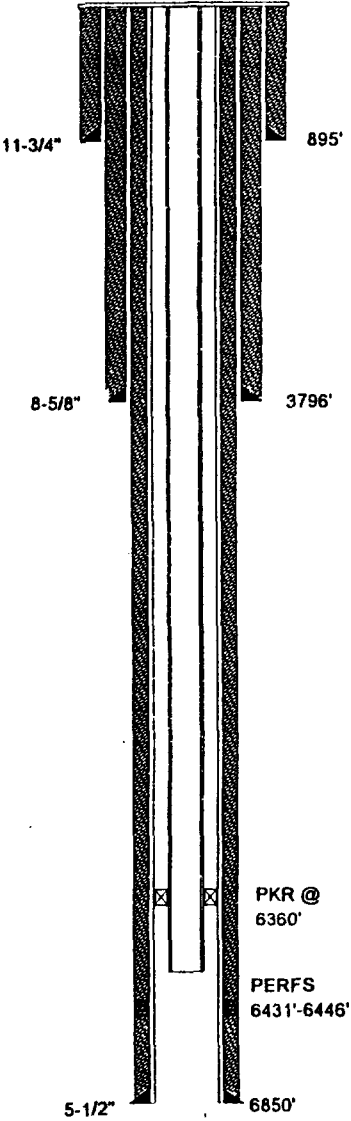
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: S. A. BOWMAN FEDERAL

WELL NO 5 2310' FSL & 2160' FWL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1400 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1610 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6431 FEET TO: 6446 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6850 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

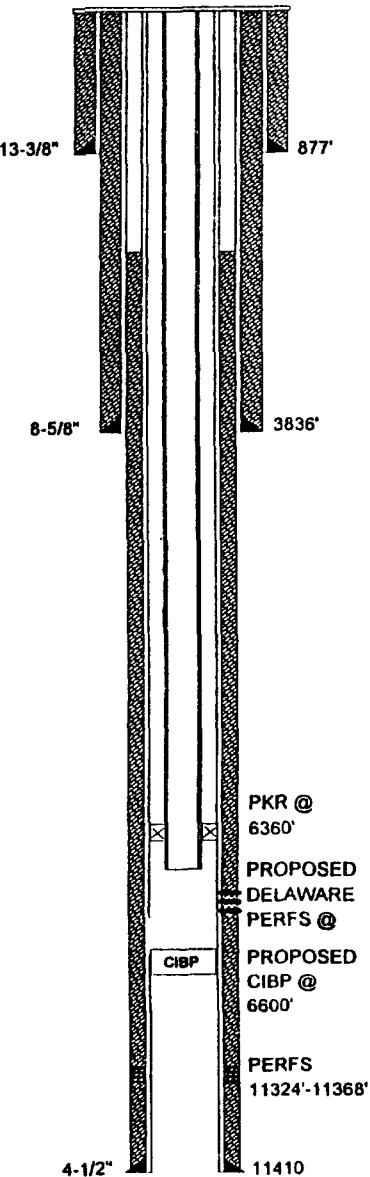
PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL 4 1650' FSL & 990' FEL SEC-29 T-19-S R-32-E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 775 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2660 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 3400 FEET DETERMINED BY: SQZ HOLE @ 3400' W/35 SXS CMT

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6430 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 11449 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO CURRENT OIL AND GAS PODUCTION FROM STRAWN PERFS

11324'-11368'. PLAN TO SET CIBP @ 6600' W/5SXS CMT ON TOP & PERF DELAWARE @ 6430'-50' CONVERT TO WIW WELL.

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

- | | | |
|----------------------------|----------------------|--------------------------------------|
| 1. YATES 2600'-2800' | WATKINS YATES | 5. STRAWN 11000'-112 LUSK STRAWN OIL |
| | N.E. LUSK YATES | |
| | S. LUSK YATES | 6. ATOKA 11200'-1140 LUSK ATOKA GAS |
| 2. DELAWARE 4600'-7100' | W. LUSK DELAWARE | 7. MORROW 11500'-12 LUSK MORROW GAS |
| | LUSK DELAWARE | N.W. LUSK MORROW GAS |
| | | N. LUSK MORROW GAS |
| 3. BONE SPRING 8200'-8950' | WATKINS BONE SPRING | |
| | LUSK BONE SPRING | |
| | S. LUSK BONE SPRING | |
| | E. LUSK BONE SPRING | |
| 4. WOLF CAMP 10100'-1070 | LUSK WOLFCAMP OIL | |
| | E. LUSK WOLFCAMP OIL | |
| | S. LUSK WOLFCAMP OIL | |

FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

**Parker & Parsley
Development L.P.**

WELL DATA SHEET

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

2
WELL NO.

990' FNL & 990' FWL
FOOTAGE LOCATION

SEC-29
SECTION

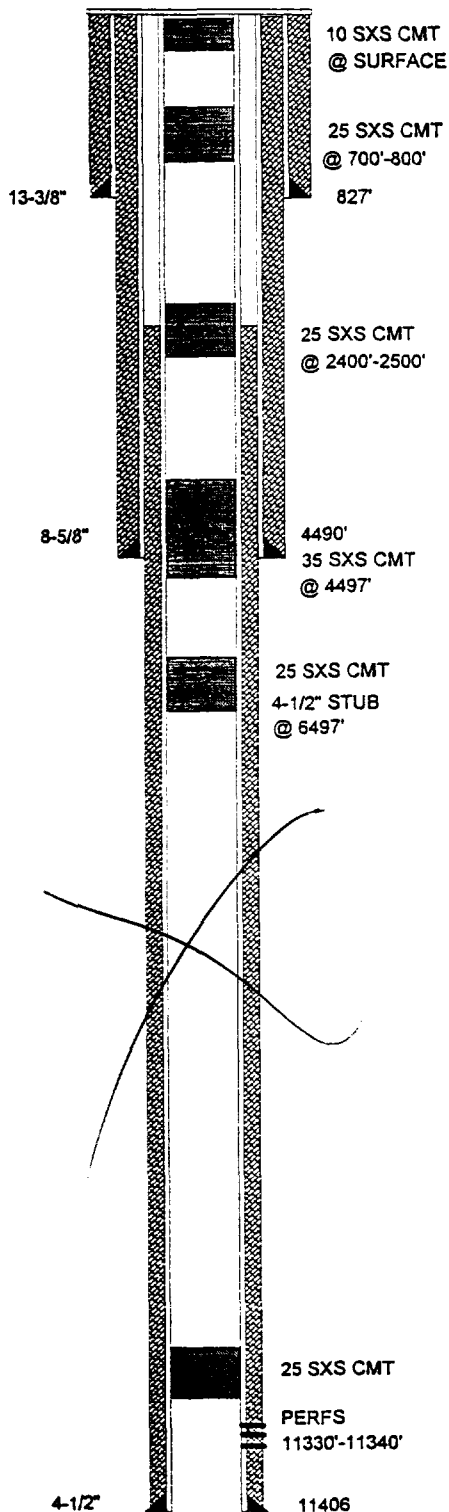
T-19-S
TOWNSHIP

R-32-E
RANGE

TYPE OF WELL: PLUGGED & ABANDONED

SPUD DATE: 3/15/63

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 **SX**
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2500 **SX**
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 **SX**
TOC: 10100 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
(PERFORATED OR OPEN HOLE; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

8

990' FNL & 1900' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

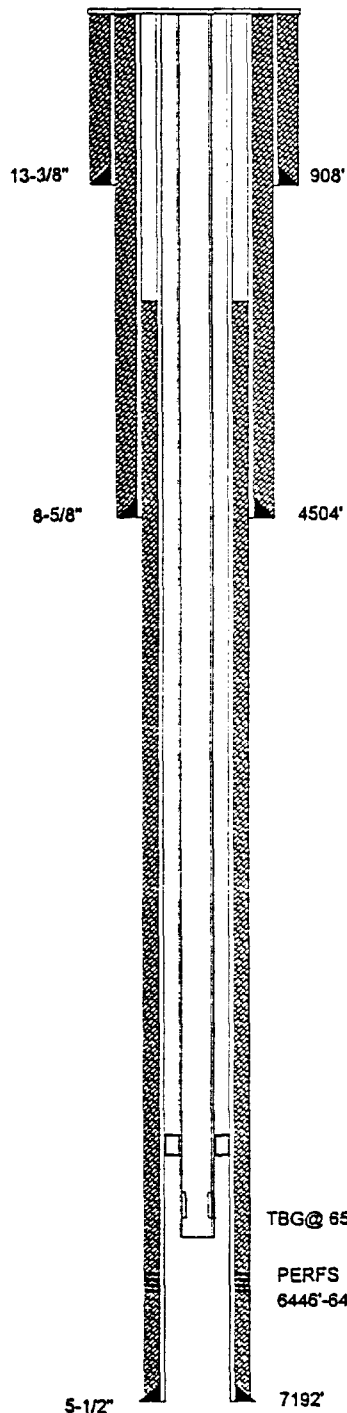
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

4/16/88

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 722 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX

TOC: 2280 FEET DETERMINED BY: Cmt Bond Log

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6446 FEET TO: 6452 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

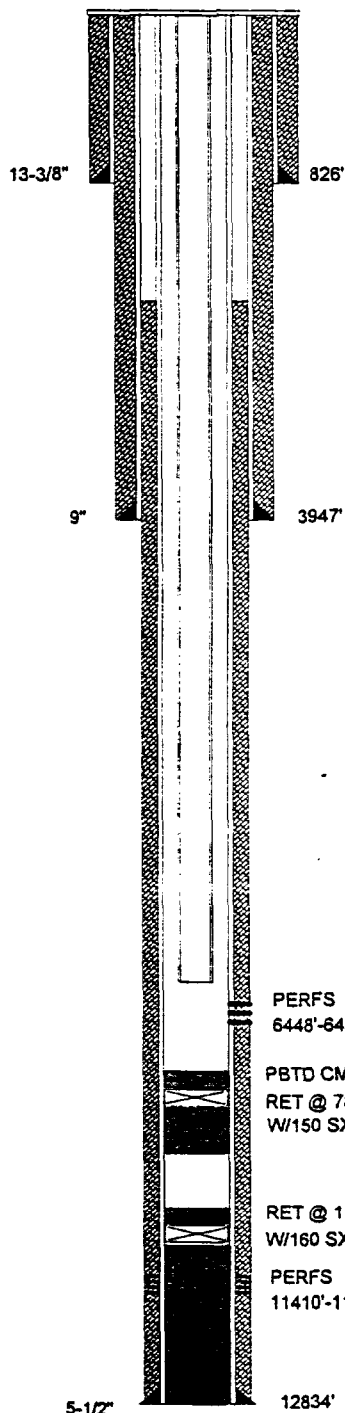
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR		LEASE		
1	1980' FNL & 660' FEL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 3/23/62		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 950 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9 INCHES CEMENTED WITH: 2725 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2140 SX

TOC: 2450 FEET DETERMINED BY: est. top of cmt sqz.

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12834 FEET

5. PERFORATIONS

6448 FEET TO: 6458 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

OPERATOR

PLAINS UNIT

LEASE

2

1980' FNL & 660' FWL

SEC-28

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

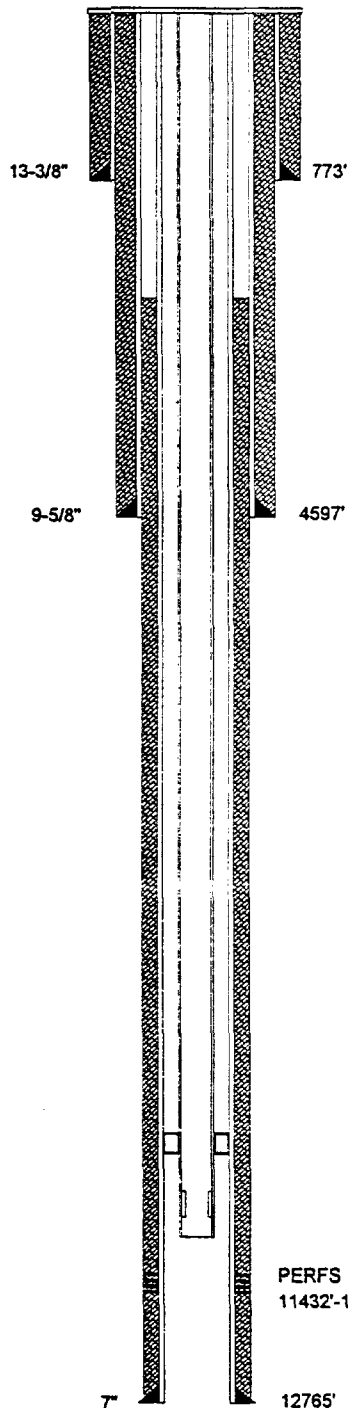
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/19/63

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 4250 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 7 INCHES CEMENTED WITH: 750 SX

TOC: 4490 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12996 FEET

5. PERFORATIONS

11432 FEET TO: 12530 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

7

2210' FNL & 2260' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

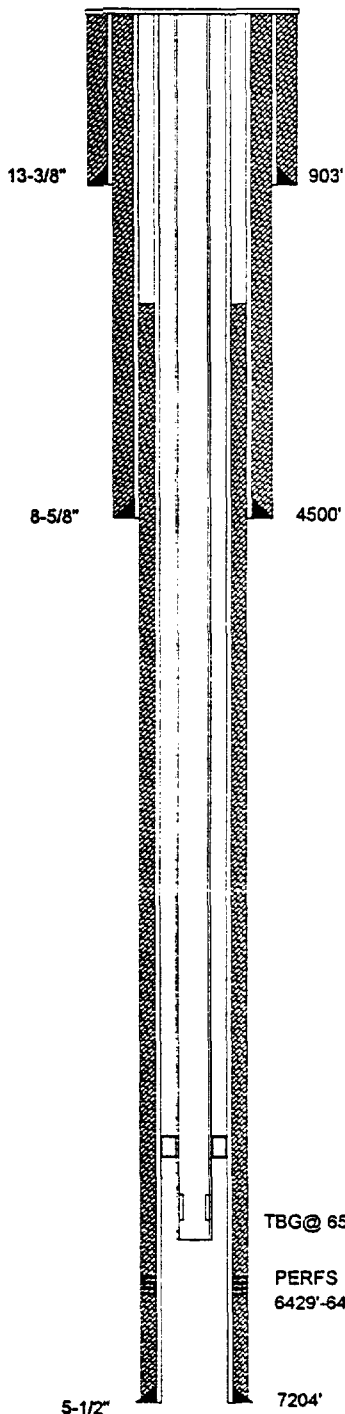
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/24/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2450 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 **SX**

TOC: 4000 FEET DETERMINED BY: Cmt Bond Log

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7204 FEET

5. PERFORATIONS

6429 FEET TO: 6442 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

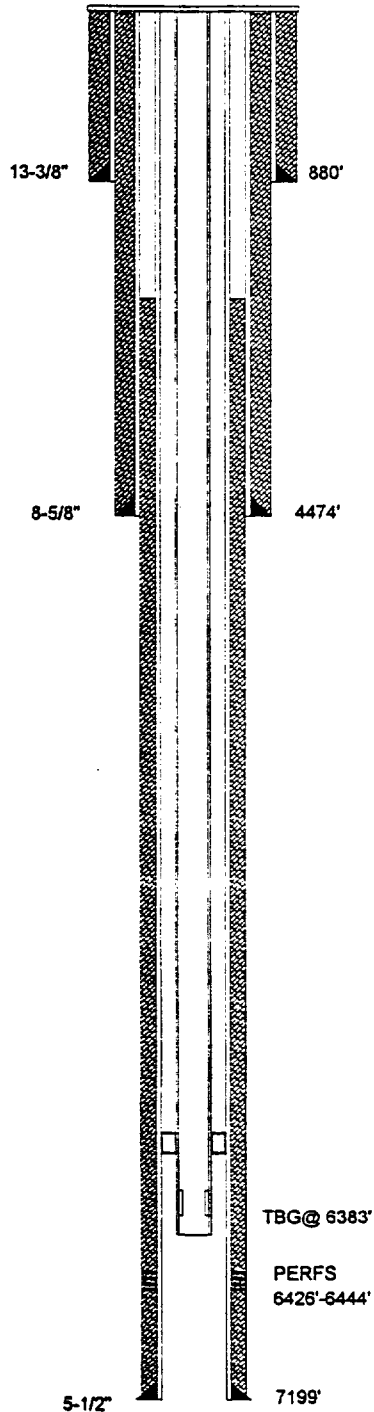
OPERATOR

LEASE

5	1980' FSL & 1980' FEL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 12/5/87

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
TOC: 4210 FEET DETERMINED BY: Cmt Bond Log
HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6426 FEET TO: 6444 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

KINCAID & WATSON DRILLING CO.

SA BOWMAN FEDERAL

OPERATOR

LEASE

1
WELL NO.330' FSL & 2310' FWL
FOOTAGE LOCATIONSEC-29
SECTIONT-19-S
TOWNSHIPR-32-E
RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

8/15/57

SCHEMATIC

TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 250 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2493 FEET TO: 2567 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

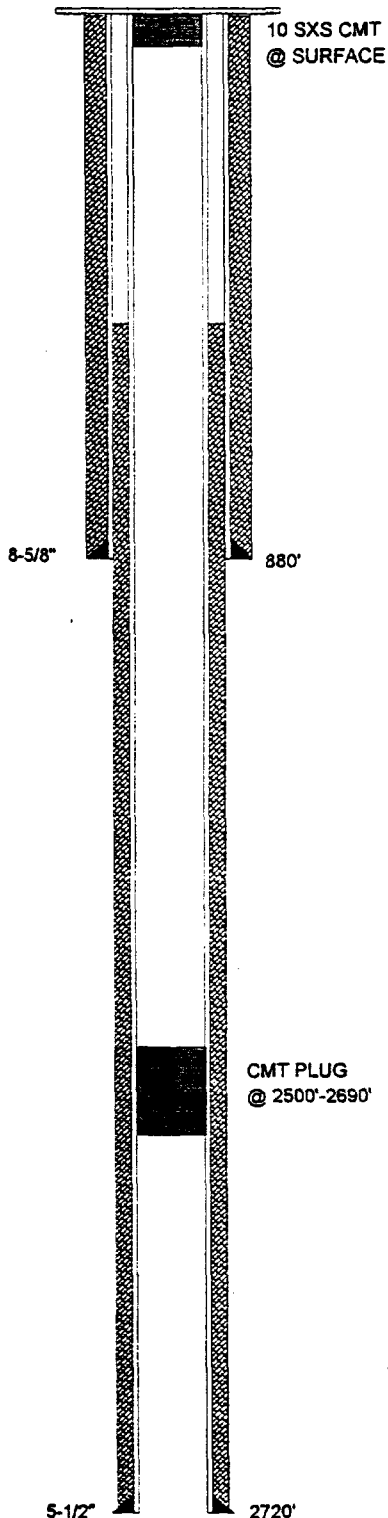
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

CMT PLUG
@ 2500'-2690'FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA



**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

3

1980' FSL & 1980' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

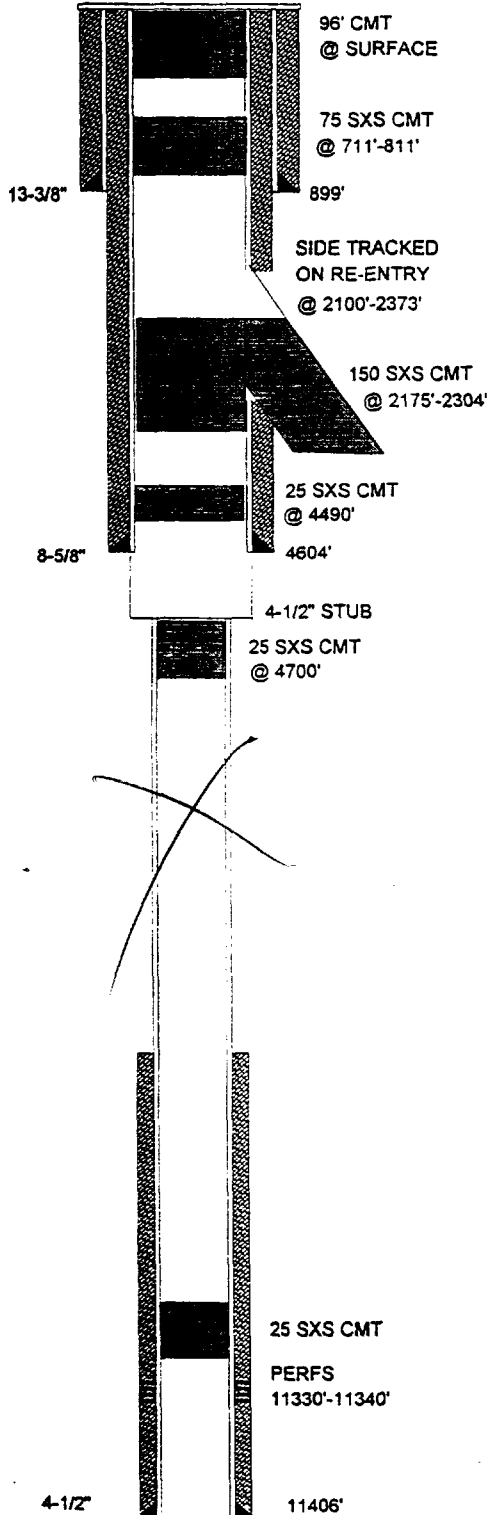
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

10/24/63

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 600 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 sx

TOC: 10100 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

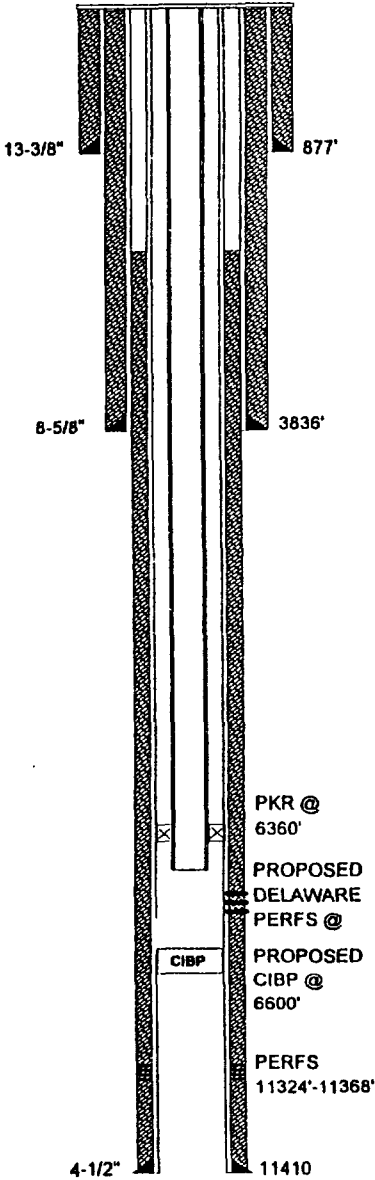
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PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL 4 1650' FSL & 990' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2660 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 SX
TOC: 3400 FEET DETERMINED BY: SQZ HOLE @ 3400' W/35 SXS CMT
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6430 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 11449 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO CURRENT OIL AND GAS PODUCTION FROM STRAWN PERFS
11324'-11368'. PLAN TO SET CIBP @ 6600' W/5SXS CMT ON TOP & PERF DELAWARE @ 6430'-50' CONVERT TO WIW WELL.

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

- | | | |
|----------------------------|---|---|
| 1. YATES 2600'-2800' | WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES | 5. STRAWN 11000'-112 LUSK STRAWN OIL |
| 2. DELAWARE 4600'-7100' | W. LUSK DELAWARE
LUSK DELAWARE | 6. ATOKA 11200'-1140 LUSK ATOKA GAS |
| 3. BONE SPRING 8200'-8950' | WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING | 7. MORROW 11500'-12 LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS |
| 4. WOLF CAMP 10100'-1070 | LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL | |

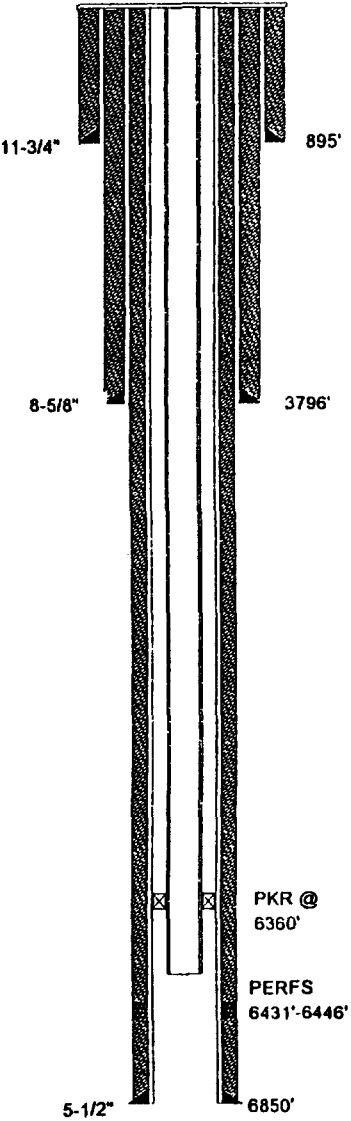
FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: S. A. BOWMAN FEDERAL

WELL NO 5 2310' FSL & 2160' FWL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1400 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1610 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6431 FEET TO: 6446 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6850 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

WELL NO

12

1980' FEL & 660' FSL

SEC-29

T-19-S

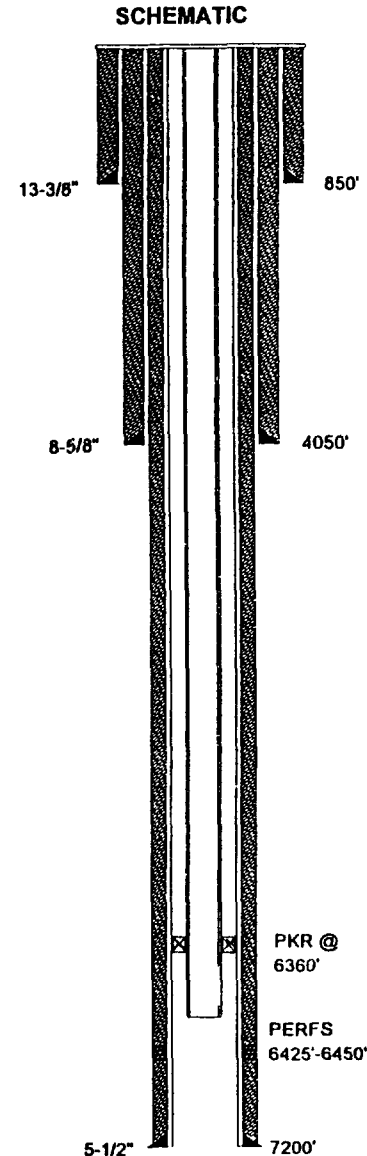
R-32-E

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'

WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES

2. DELAWARE 4600'-7100'

W. LUSK DELAWARE
LUSK DELAWARE

3. BONE SPRING 8200'-8950'

WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING

4. WOLF CAMP 10100'-10700'

LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL

5. STRAWN 11000'-11200'

LUSK STRAWN OIL

6. ATOKA 11200'-11400'

LUSK ATOKA GAS

7. MORROW 11500'-12000'

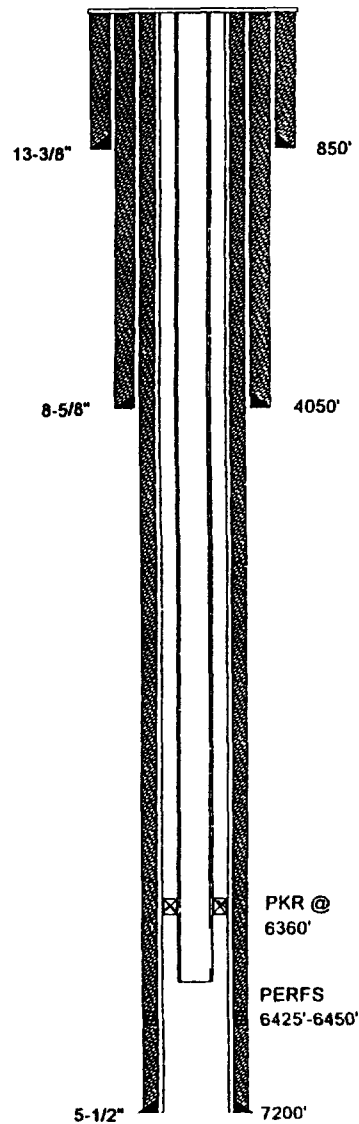
LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 10 1980' FNL & 1980' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

1

1980' FNL & 660' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

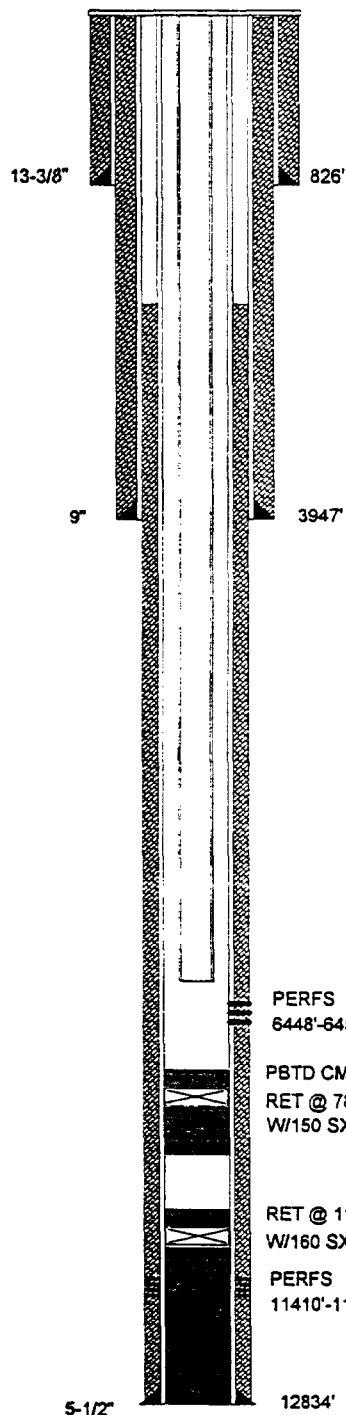
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/23/62

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 950 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9 INCHES CEMENTED WITH: 2725 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2140 SX

TOC: 2450 FEET DETERMINED BY: est. top of cmt sqz.

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12834 FEET

5. PERFORATIONS

6448 FEET TO: 6458 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

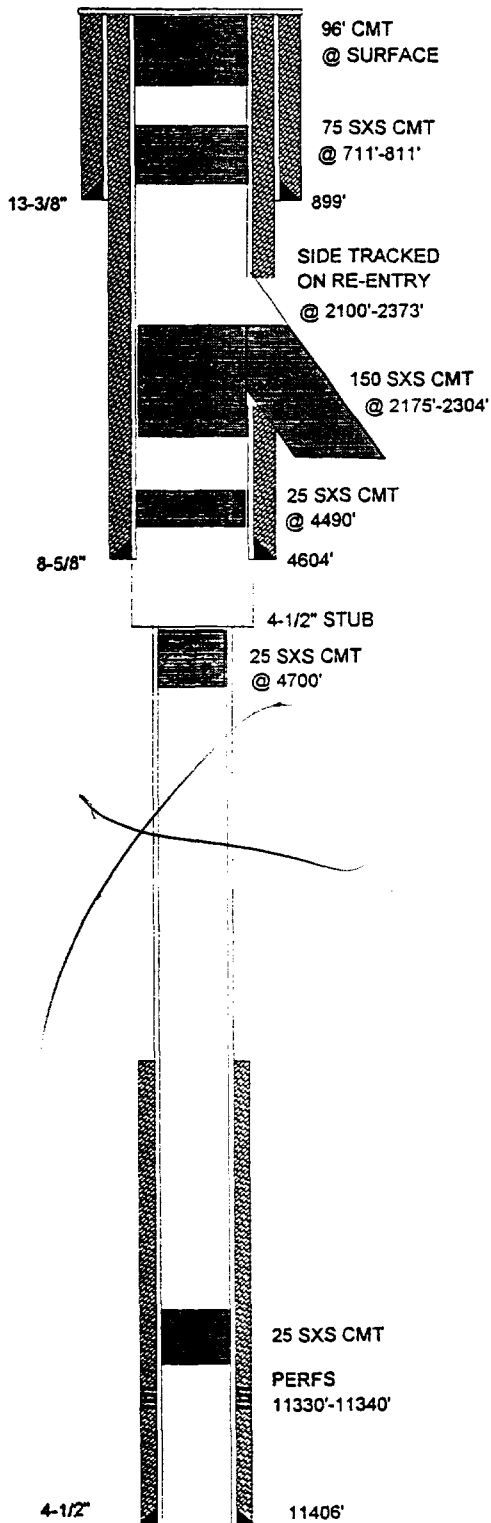
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR		LEASE		
3	1980' FSL & 1980' FWL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PLUGGED & ABANDONED		SPUD DATE: 10/24/63		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 600 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 sx

TOC: 10100 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

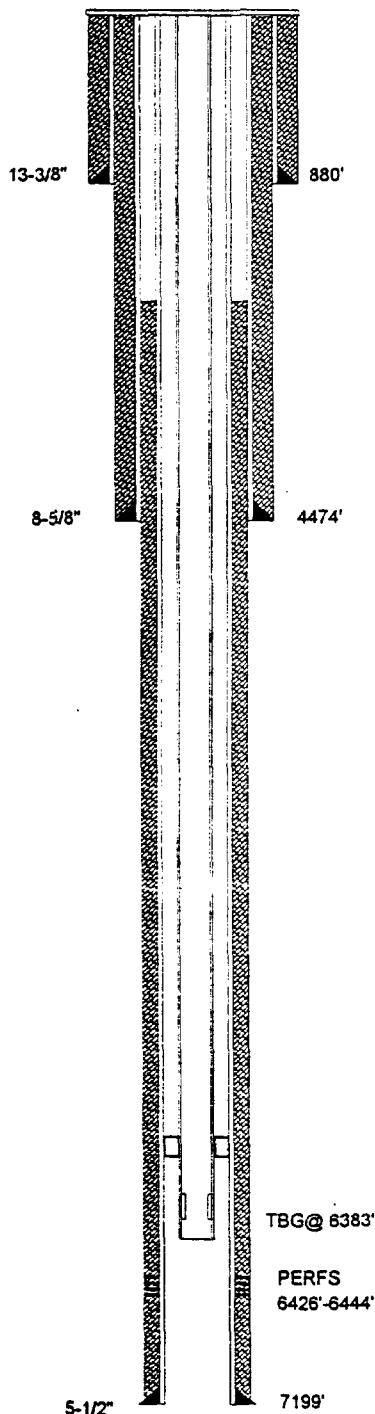
WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR	LEASE			
5	1980' FSL & 1980' FEL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 12/5/87		

SCHEMATIC**TABULAR DATA****1. SURFACE CASING**

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX
 TOC: 4210 FEET DETERMINED BY: Cmt Bond Log
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6426 FEET TO: 6444 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

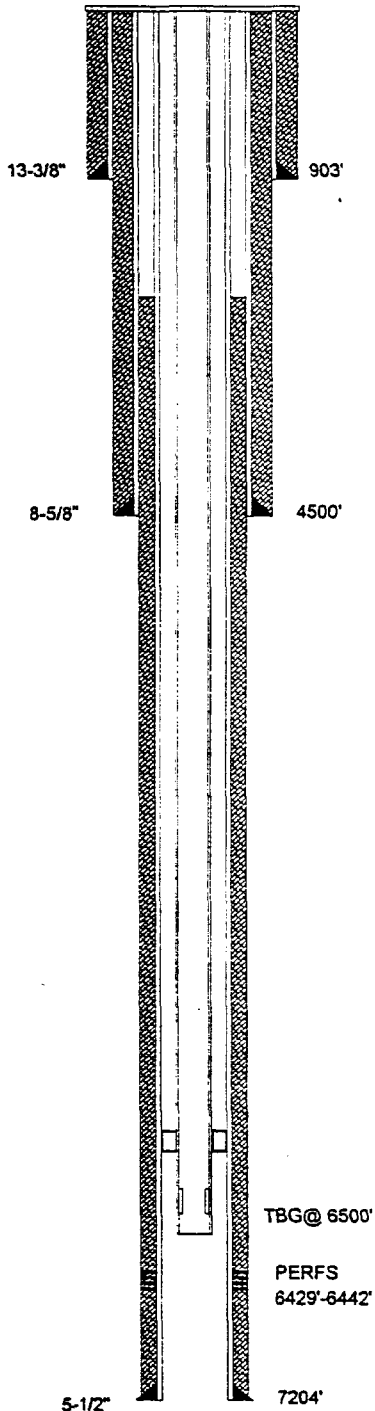
WELL DATA SHEET

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR	LEASE			
7	2210' FNL & 2260' FWL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL				
			SPUD DATE:	3/24/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2450 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SX
 TOC: 4000 FEET DETERMINED BY: Cmt Bond Log
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7204 FEET

5. PERFORATIONS

6429 FEET TO: 6442 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

PLAINS UNIT

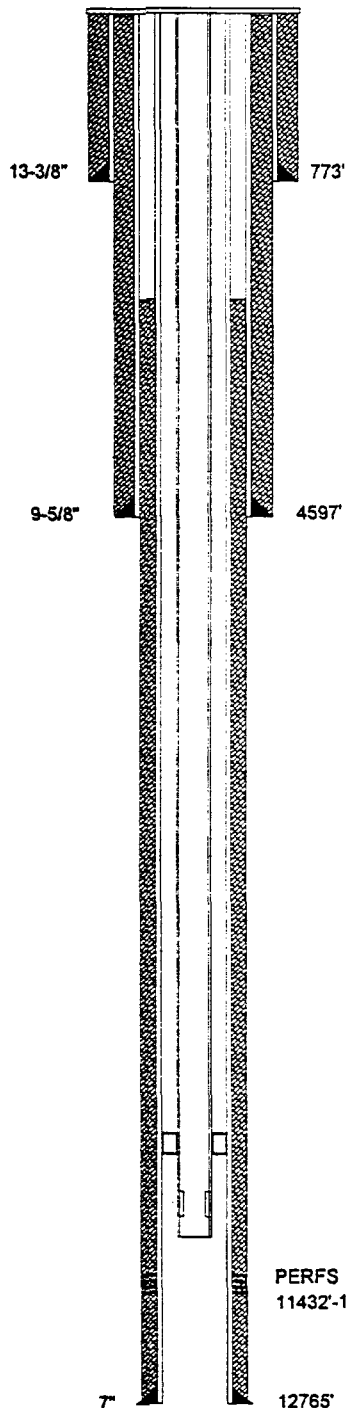
OPERATOR

LEASE

2	1980' FNL & 660' FWL	SEC-28	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 3/19/63

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 4250 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 7 INCHES CEMENTED WITH: 750 **SX**
 TOC: 4490 FEET DETERMINED BY: Temp. Survey
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12996 FEET

5. PERFORATIONS

11432 FEET TO: 12530 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

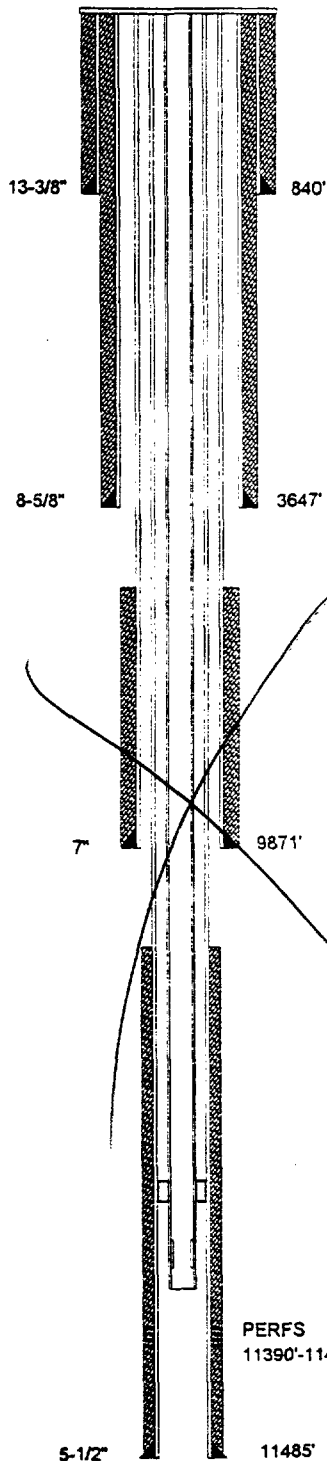
Parker & Parsley
Development L.P.

PLAINS UNIT FEDERAL

OPERATOR	LEASE			
3-Y	1980' FSL & 760' FWL	SEC-28	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL				
			SPUD DATE:	12/4/81

TABULAR DATA

SCHEMATIC



1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 7 INCHES CEMENTED WITH: 250 sx

TOC: 8796 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 8-1/2 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 250 sx

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11485 FEET

6. PERFORATIONS

11390 FEET TO: 11480 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL
TABULATION OF WELL DATA

PAN AMERICAN PET. CORP.

PLAINS UNIT

OPERATOR

LEASE

3

1980' FSL & 660' FWL

SEC-28

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

7/6/63

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

4. TOTAL DEPTH: 4111 FEET

5. PERFORATIONS

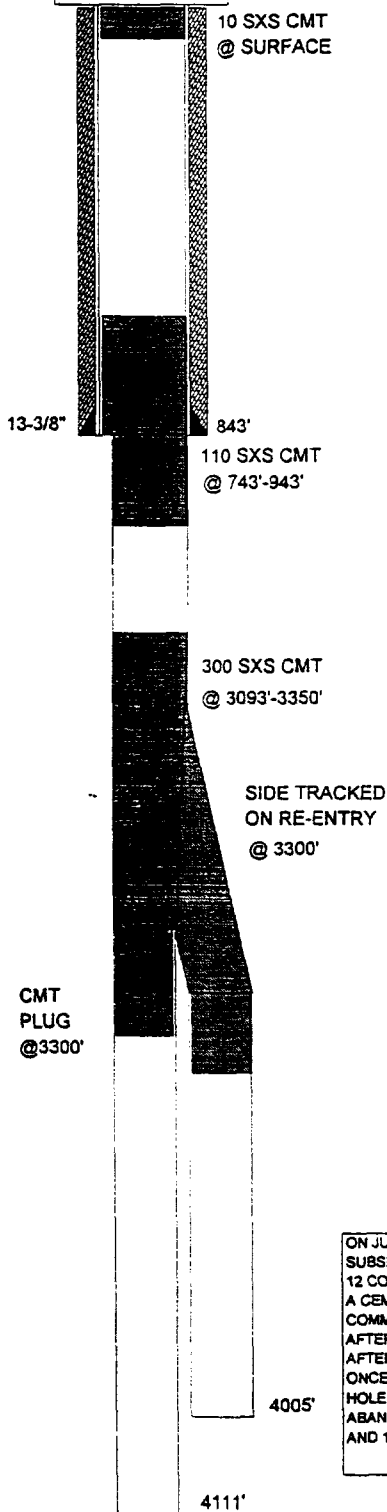
N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED

DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE



ON JULY 28, 1963 WHILE DRILLING AT 4111', 15 DRILL COLLARS BECAME STUCK. IN SUBSEQUENT FISHING OPERATIONS THREE COLLARS WERE RECOVERED LEAVING 12 COLLARS IN THE HOLE. TOP OF FISH TO 3535'. AFTER FISHING FOR SEVEN DAYS, A CEMENT PLUS WAS SET FROM TOP OF FISH TO 3300'. DRILLING WAS COMMENCED IN AN UNDETERMINED DIRECTION TO BY-PASS THE JUNK IN HOLE. AFTER UNABLE TO GET WHIPSTOCK TO BOTTOM. ON 8-12-63 WHILE MAKING A TRIP AFTER DRILLING THE SIDE TRACK HOLE TO DEPTH OF 4005', THE DRILL PIPE STUCK ONCE AGAIN. TOP OF FISH AT 3667' AFTER FISHING FOR TWO DAYS ABANDON THE HOLE AND MOVED LOCATION. LEFT THREE DRILL COLLARS, JARS AND BIT IN HOLE. ABANDONED BY SPOTTING 300 SXS CMT PLUG @ 3093'-3350'; 110 SXS @ 743'-943'; AND 10 SXS CMT @ SURFACE.

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC

OPERATOR

BOWMAN

LEASE

1

2310' FNL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

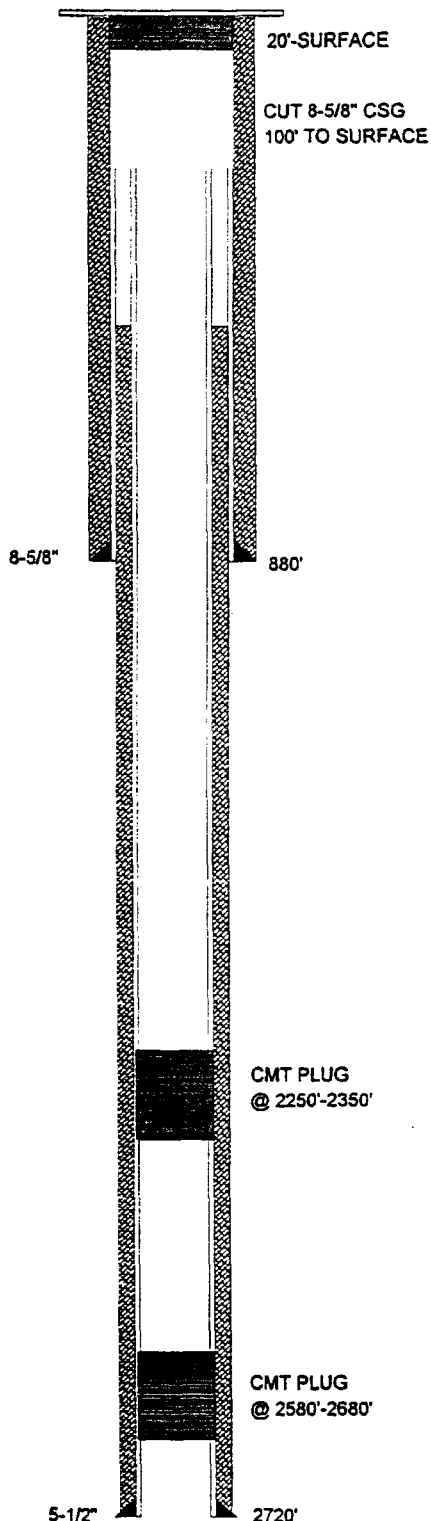
PLUGGED & ABANDONED

SPUD DATE:

10/10/67

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX
 TOC: N/A FEET DETERMINED BY: N/A
 HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 700 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2628 FEET TO: 2648 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. N/A

CMT PLUG
 @ 2250'-2350'

CMT PLUG
 @ 2580'-2680'

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

KINCAID & WATSON DRILLING CO.

SA BOWMAN FEDERAL

OPERATOR

LEASE

1

330' FSL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

8/15/57

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 250 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2493 FEET TO: 2567 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

10 SXS CMT
@ SURFACE

8-5/8"

880'

CMT PLUG
@ 2500'-2690'

5-1/2"

2720'

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC

SA BOWMAN FEDERAL

OPERATOR

LEASE

4

990' FSL & 1659' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

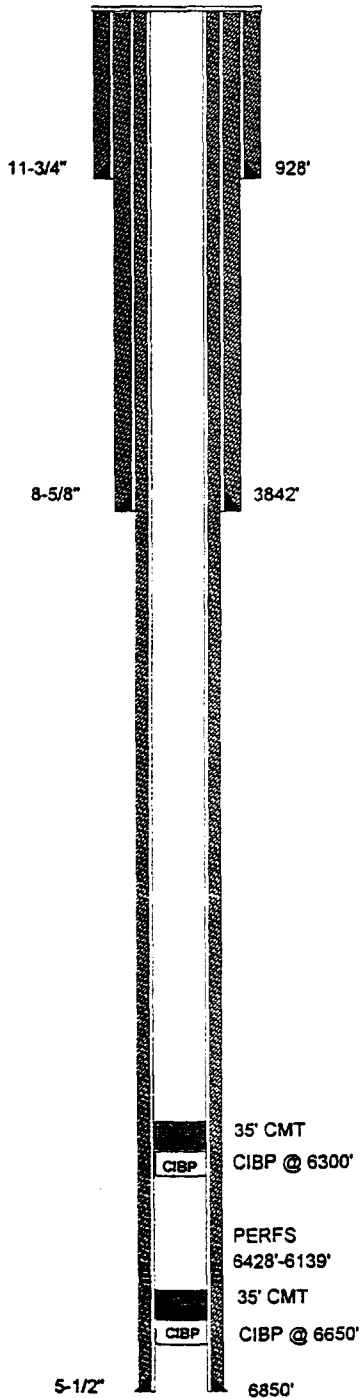
RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE: 12/8/87

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1800 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6850 FEET

5. PERFORATIONS

6428 FEET TO: 6139 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

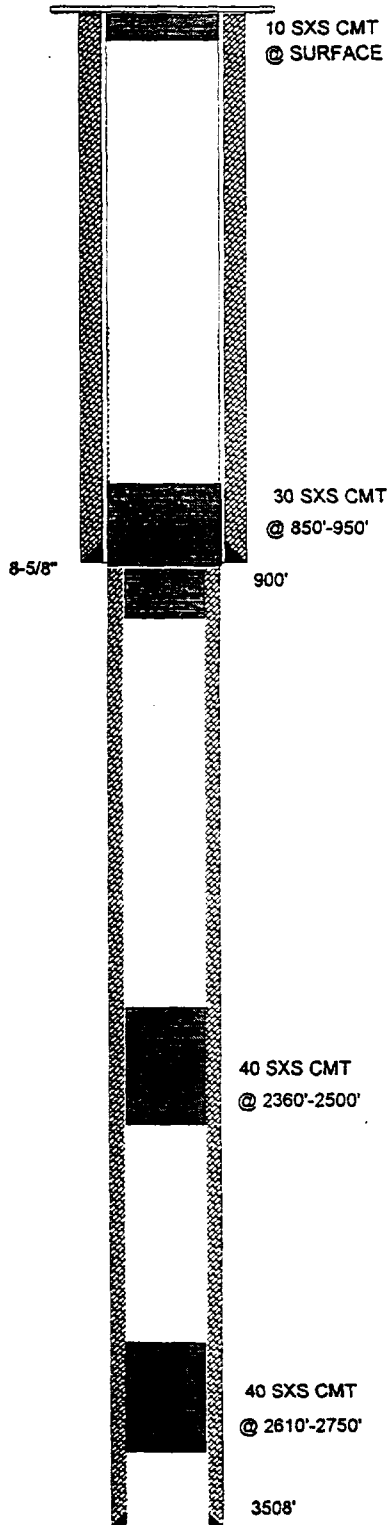
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

NEW MEXICO "DH" STATE

OPERATOR	LEASE			
1	330' FNL & 330' FEL	SEC-32	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: <u>PLUGGED & ABANDONED</u>		SPUD DATE: <u>2/25/71</u>		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 530 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 3508 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. N/A

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

NEW MEXICO "DH" STATE

OPERATOR

LEASE

1-Y

380' FNL & 330' FEL

SEC-32

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

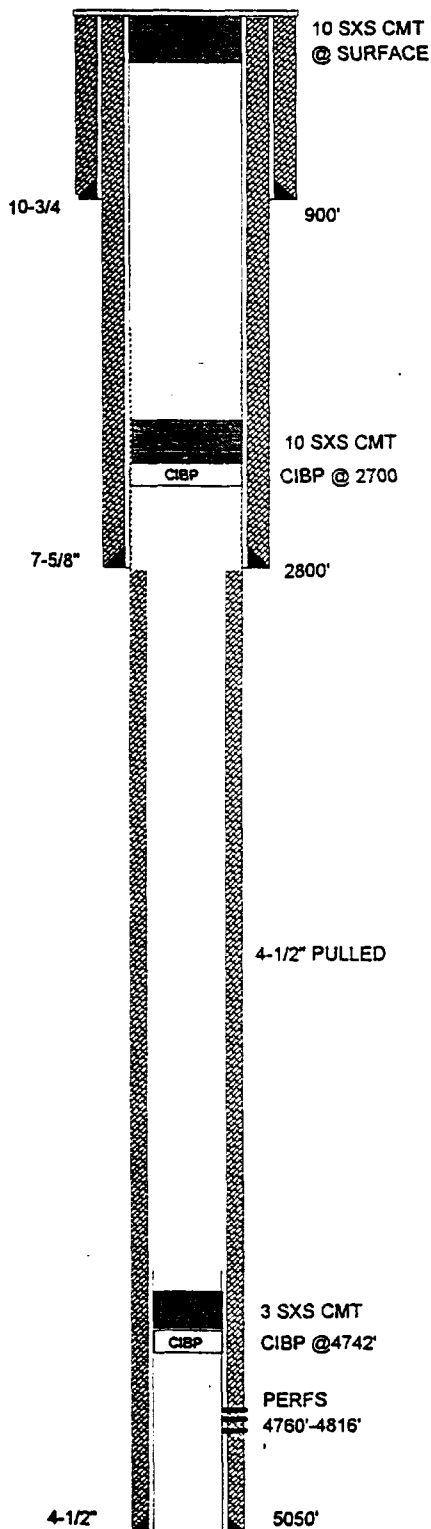
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

3/12/71

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 680 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 7-5/8 INCHES CEMENTED WITH: 350 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 154 sx

TOC: 4400 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 5050 FEET

5. PERFORATIONS

4760 FEET TO: 4816 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

Parker & Parsley
Development L.P.
OPERATOR

FORAN "NF" SATE
LEASE

1
WELL NO.

330' FNL & 1980' FEL
FOOTAGE LOCATION

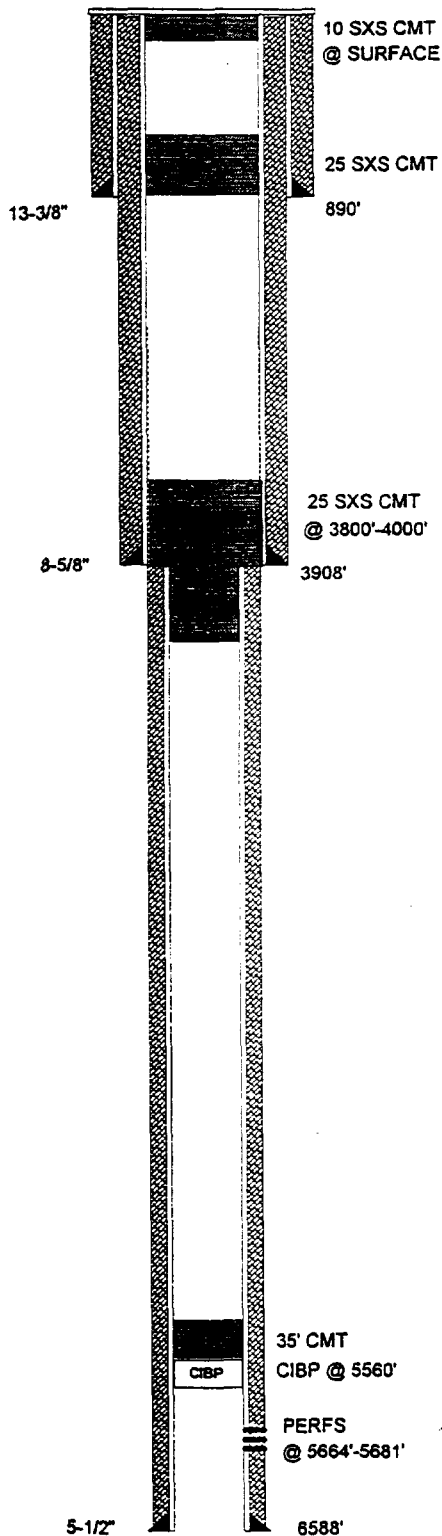
SEC-32
SECTION

T-19-S R-32-E
TOWNSHIP RANGE

TYPE OF WELL: PLUGGED & ABANDONED

SPUD DATE: 12/16/87

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 760 sx
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-7/8 INCHES CEMENTED WITH: 1555 sx
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 545 sx
TOC: 4300 FEET DETERMINED BY: Temp. Survey
HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6588 FEET

5. PERFORATIONS

5664 FEET TO: 5681 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. N/A

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

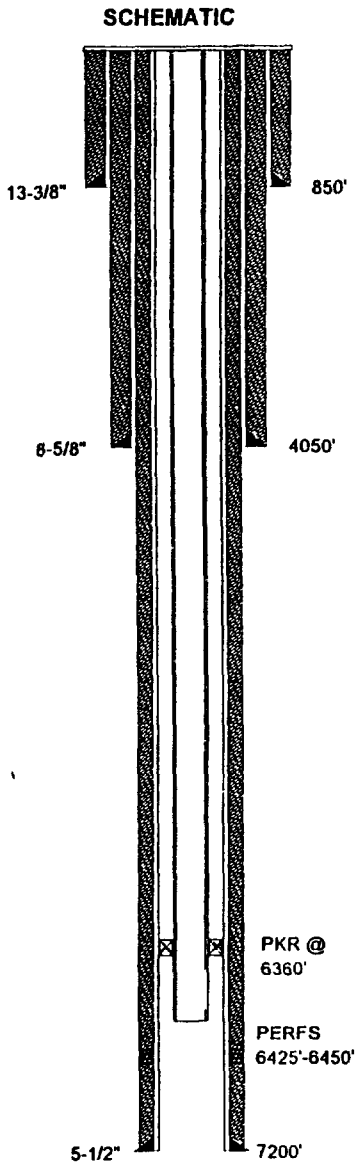
The image displays a 6x6 grid of 36 numbered squares, each containing various symbols and text. A central square (20) is highlighted with a thick border. A circle is drawn around a cluster of symbols in square 29, which includes labels like 'SO CALIF FEDERAL', 'SA BOVHAN', and 'SA 1'. Other squares contain numbers, dots, crosses, and symbols like triangles and circles.

1 13 18 1 1 2	9 11 17 1	1 5 16 1 1	2 4-B 1-A 3-B 15 3-A 1-B 5-A 4-A 2-B 2-A
1 3 10 1 2 1 1 2 5 19 6	19 17 3 22 12 15 20 4 20 7 21 14 4	1 2 1 6 2 4 1 4 1 3	1 2 1 22 1 2
1 1 30 2 4 1 3 1 2 1 2	2 8 11 10 SO CALIF FEDERAL 7 SA 1 SA BOVHAN 5 SO CALIF FEDERAL 3 SO CALIF FEDERAL 4 SA BOVHAN 6 SO CALIF FEDERAL 29 12 SO CALIF FEDERAL 13 SO CALIF FEDERAL 1	1 2 2 3 3-Y 10 28 5	1 1 27 1 4
1 1 31 1 1 3	4 1 NEW MEXICO OR STATE 1 FORAM NP STATE 1 NM IN STATE 1 TEKOCO-CITIES SERVICE ST CON 32 3 5 2	1 9 1 33 9	1 34 1

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 12 1980' FEL & 660' FSL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA
A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)
C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)
D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

WELL

4

1650' FSL & 990' FEL

SEC-29

T-19-S

R-32-E

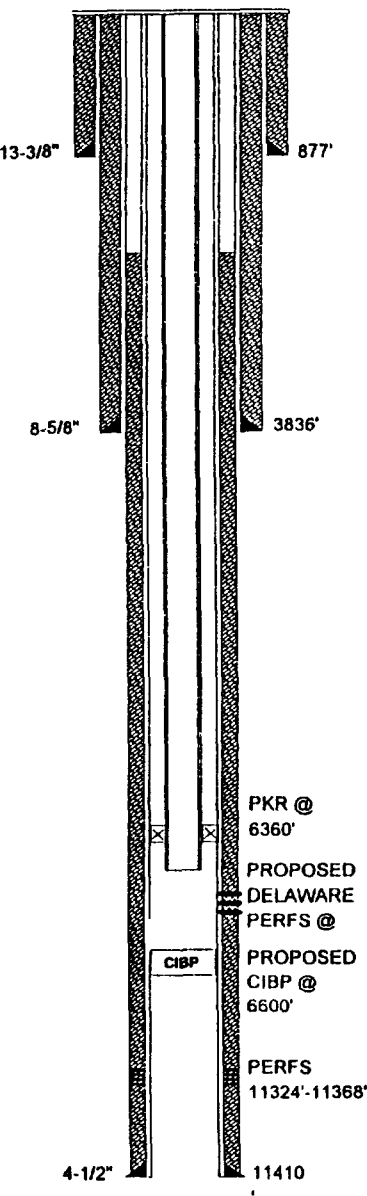
FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 775 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2660 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 3400 FEET DETERMINED BY: SQZ HOLE @ 3400' W/35 SXS CMT

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6430 FEET TO: 6450 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 11449 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO CURRENT OIL AND GAS PODUCTION FROM STRAWN PERFS
11324'-11368'. PLAN TO SET CIBP @ 6600' W/5SXS CMT ON TOP & PERF DELAWARE @ 6430'-50' CONVERT TO WIW WELL.

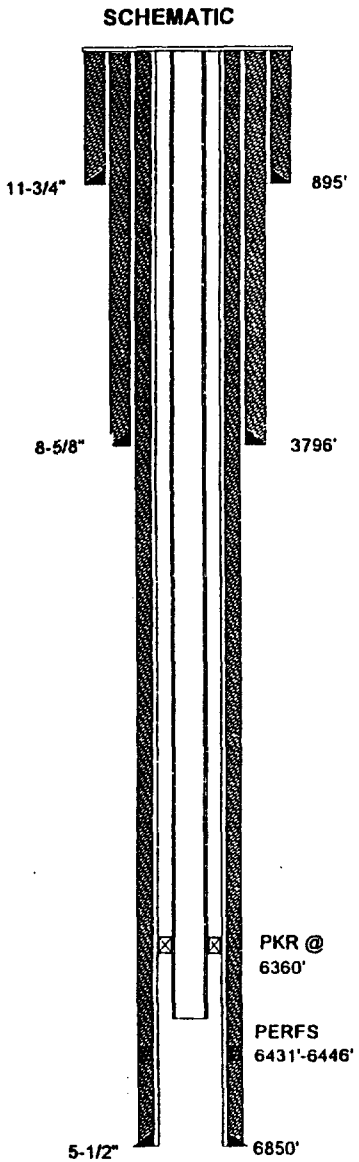
E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-112 LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-1140 LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12 LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-1070	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL	

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: S. A. BOWMAN FEDERAL

WELL NO 5 2310' FSL & 2160' FWL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1400 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1610 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6431 FEET TO: 6446 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6850 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

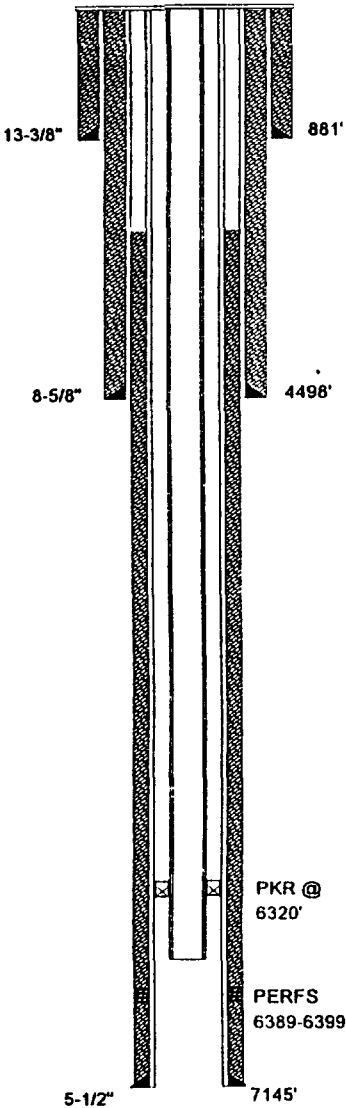
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 6 990' FSL & 660' FWL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 2600 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 940 SX
TOC: 4200 FEET DETERMINED BY: CALCULATED
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6389 FEET TO: 6399 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6320 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)
C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)
D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

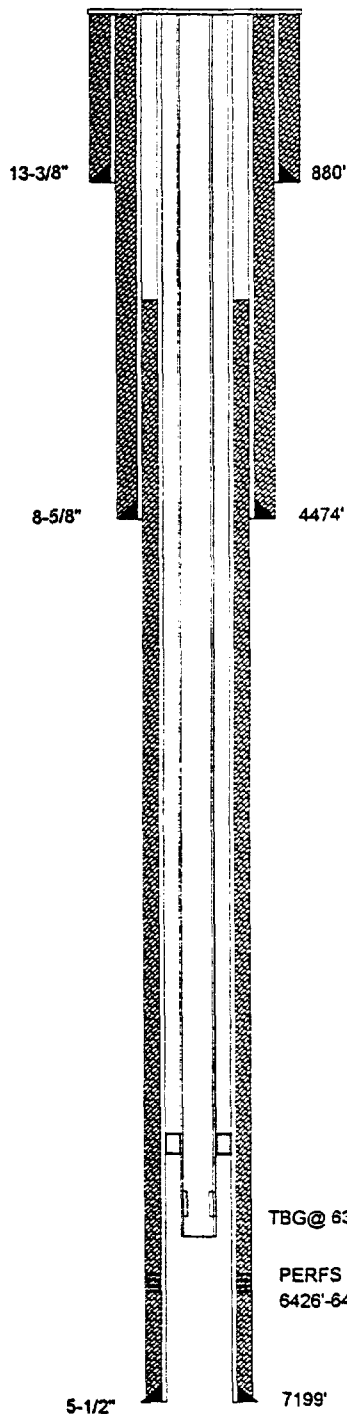
OPERATOR

LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
5	1980' FSL & 1980' FEL	SEC-29	T-19-S	R-32-E

TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 12/5/87

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 **SX**

TOC: 4210 FEET DETERMINED BY: Cmt Bond Log

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6426 FEET TO: 6444 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

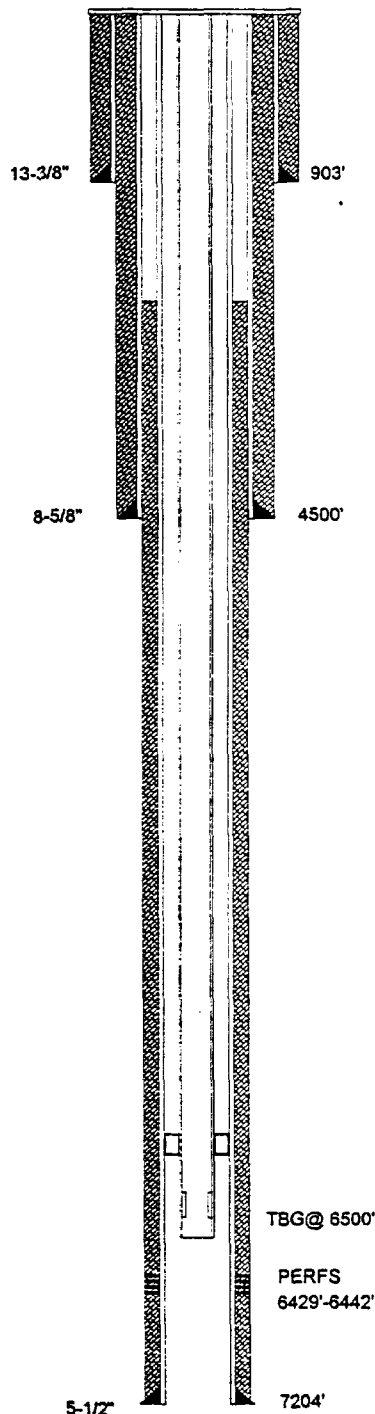
OPERATOR

LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
7	2210' FNL & 2260' FWL	SEC-29	T-19-S	R-32-E

TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 3/24/88

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2450 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 **SX**
 TOC: 4000 FEET DETERMINED BY: Cmt Bond Log
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7204 FEET

5. PERFORATIONS

6429 FEET TO: 6442 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

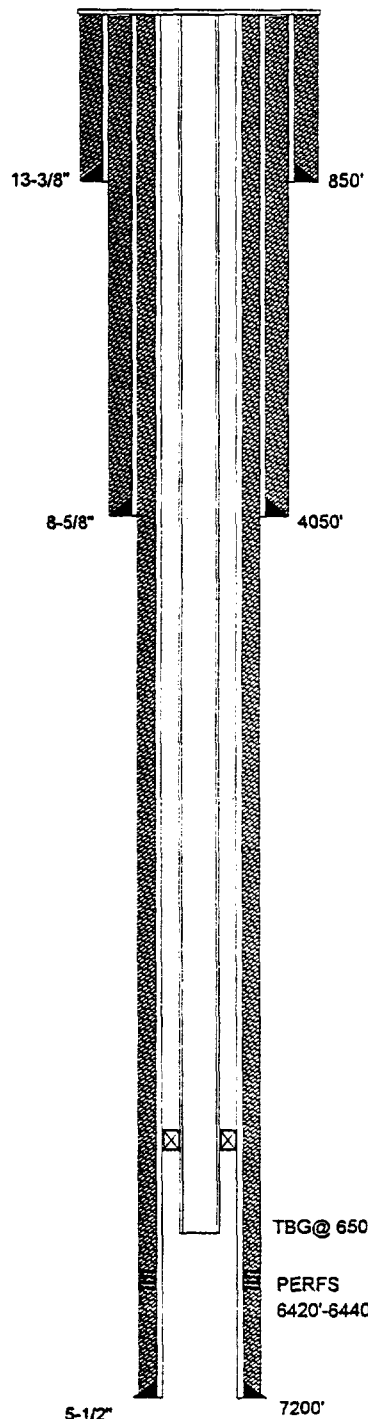
OPERATOR

LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
13	660' FSL & 660' FEL	SEC-29	T-19-S	R-32-E

TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 1997

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1530 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

 6420 FEET TO: 6440 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"
FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

KINCAID & WATSON DRILLING CO.

SA BOWMAN FEDERAL

OPERATOR

LEASE

1

330' FSL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

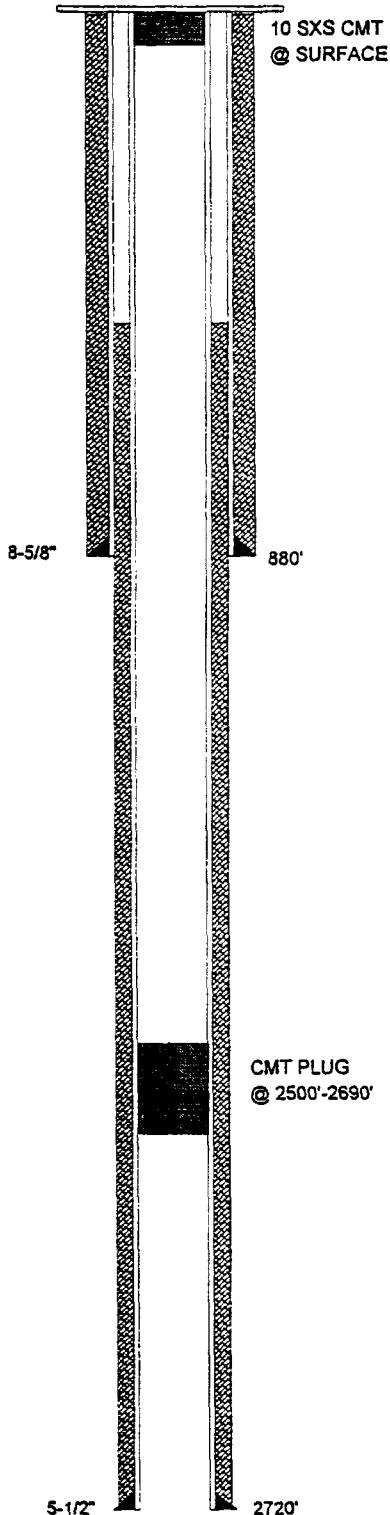
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

8/15/57

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 Sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A S

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 Sx

TOC: 250 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2493 FEET TO: 2567 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

3
WELL NO.

1980' FSL & 1980' FWL
FOOTAGE LOCATION

SEC-29
SECTION

T-19-S
TOWNSHIP

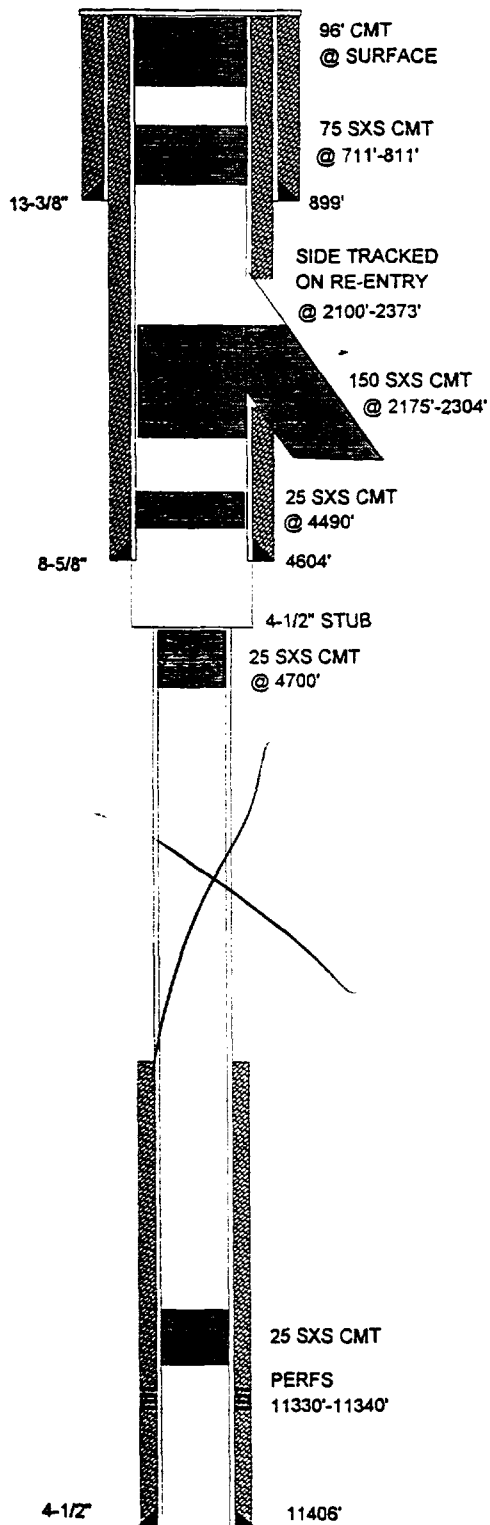
R-32-E
RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE: 10/24/63

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 600 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 sx

TOC: 10100 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC

BOWMAN

OPERATOR

LEASE

1

2310' FNL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

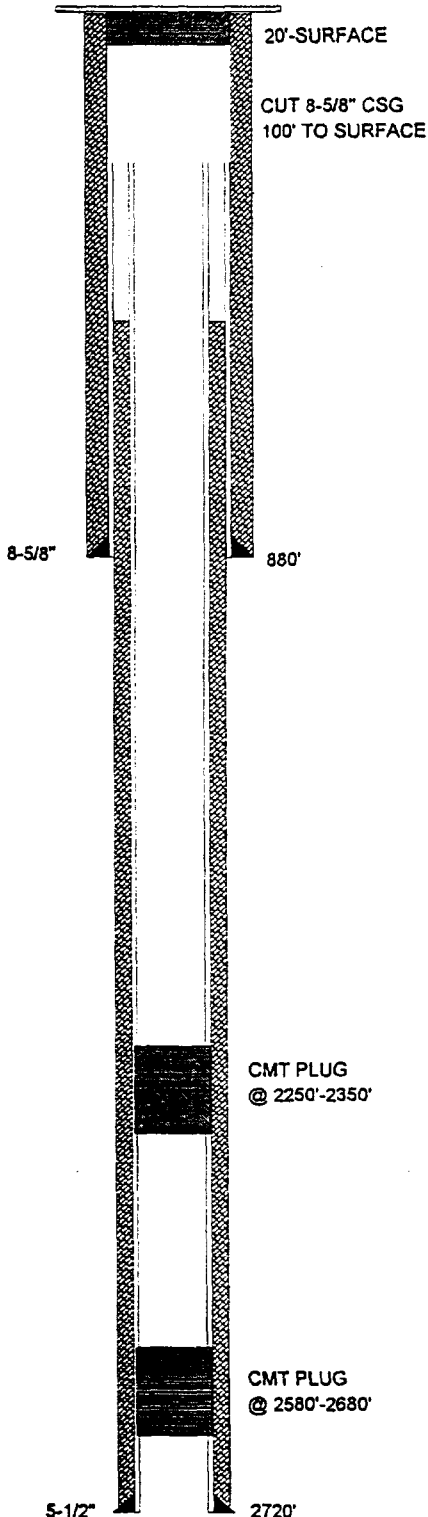
PLUGGED & ABANDONED

SPUD DATE:

10/10/67

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2628 FEET TO: 2648 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

N/A

CMT PLUG
@ 2250'-2350'CMT PLUG
@ 2580'-2680'FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

TEXACO INC.

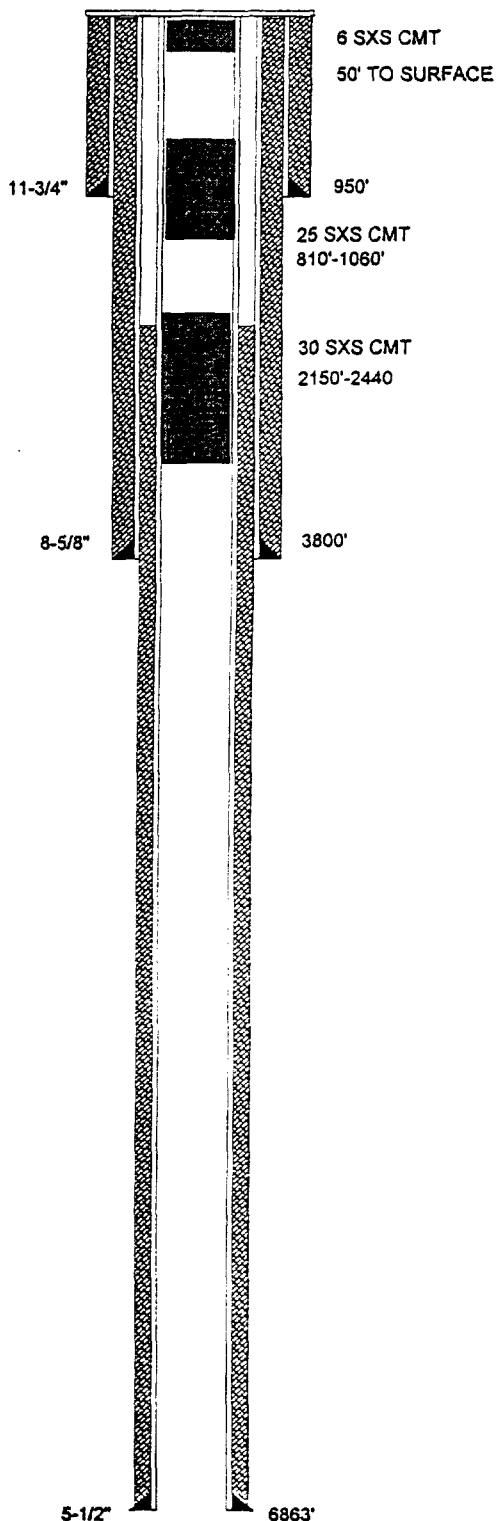
NEW MEXICO "CR" STATE

OPERATOR

LEASE

4
WELL NO.330' FNL & 1662' FWL
FOOTAGE LOCATIONSEC-32
SECTIONT-19-S
TOWNSHIPR-32-E
RANGETYPE OF WELL: DRY HOLESPUD DATE: 11/16/87

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2200 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1600 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6863 FEET

5. PERFORATIONS

6442 FEET TO: 6446 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

NEW MEXICO "DH" STATE

OPERATOR

LEASE

1-Y

380' FNL & 330' FEL

SEC-32

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

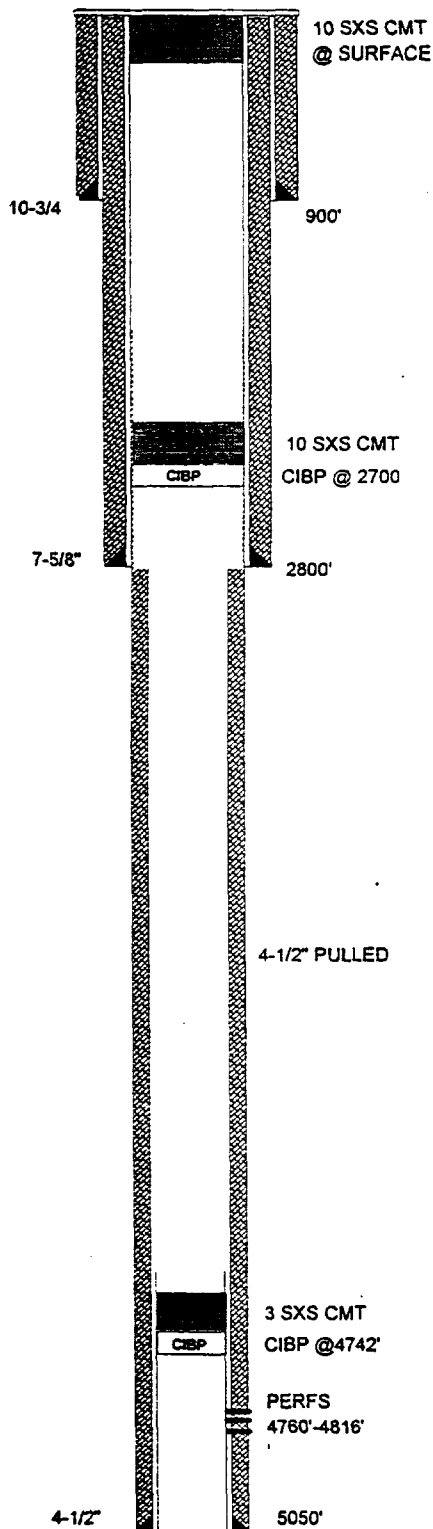
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

3/12/71

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 680 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 7-5/8 INCHES CEMENTED WITH: 350 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 154 sx

TOC: 4400 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 5050 FEET

5. PERFORATIONS

4760 FEET TO: 4816 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

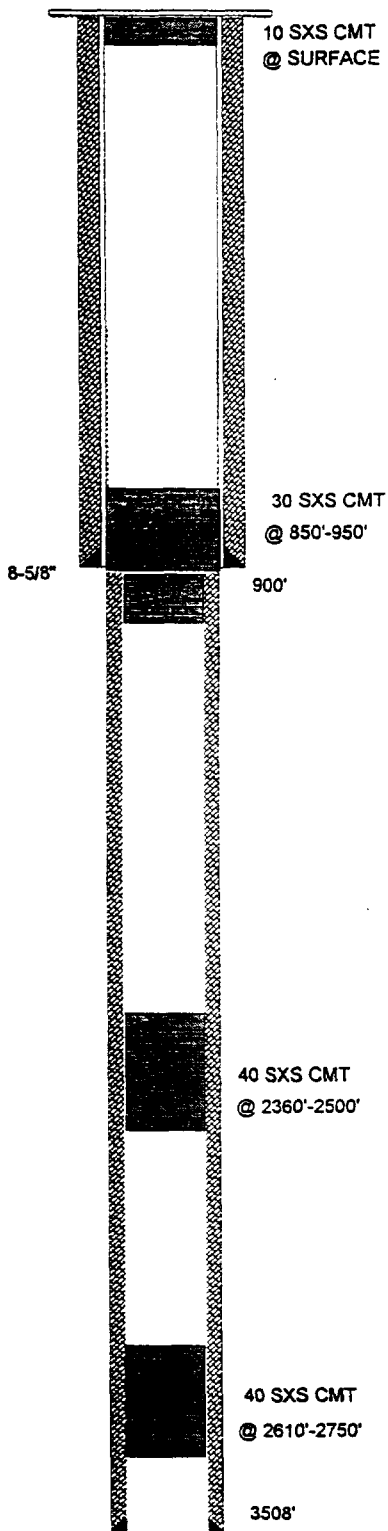
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

NEW MEXICO "DH" STATE

OPERATOR		LEASE		
1	330' FNL & 330' FEL	SEC-32	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: <u>PLUGGED & ABANDONED</u>		SPUD DATE: <u>2/25/71</u>		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 530 sx
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx
TOC: N/A FEET DETERMINED BY: N/A
HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A sx
TOC: N/A FEET DETERMINED BY: N/A
HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 3508 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. N/A

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

OPERATOR

FORAN "NF" SATE

LEASE

1
WELL NO.

330' FNL & 1980' FEL
FOOTAGE LOCATION

SEC-32
SECTION

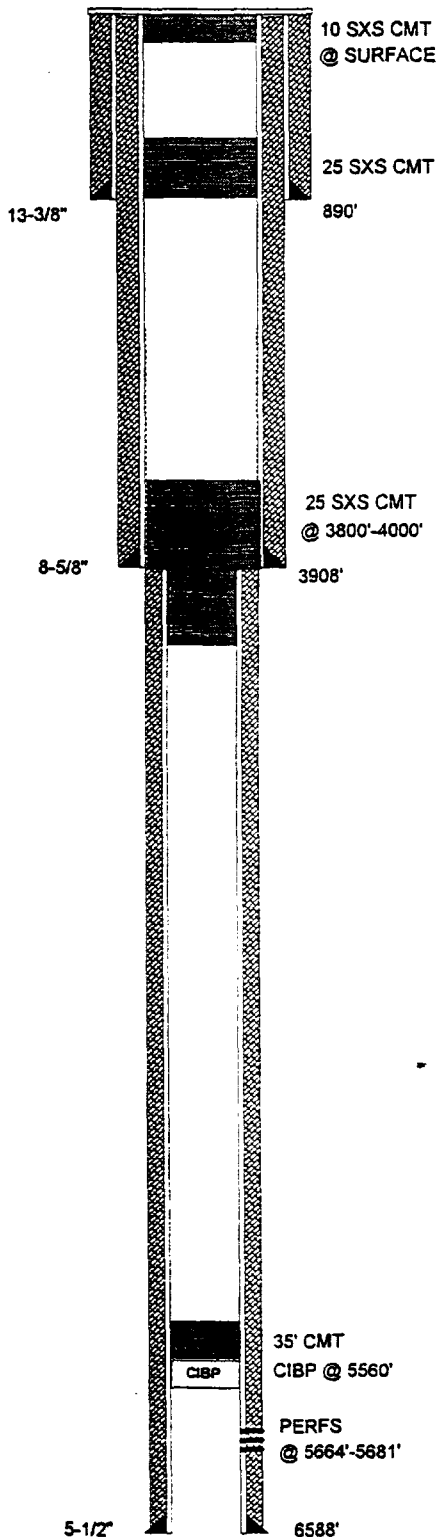
T-19-S
TOWNSHIP

R-32-E
RANGE

TYPE OF WELL: PLUGGED & ABANDONED

SPUD DATE: 12/16/87

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 760 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-7/8 INCHES CEMENTED WITH: 1555 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 545 sx

TOC: 4300 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6588 FEET

5. PERFORATIONS

5664 FEET TO: 5681 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. N/A

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC

OPERATOR

SA BOWMAN FEDERAL

LEASE

4

990' FSL & 1659' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

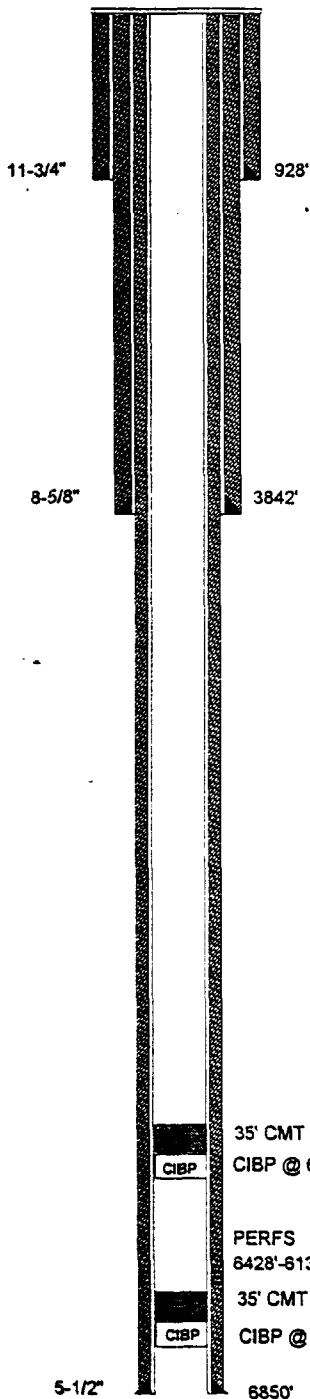
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

12/8/87

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1800 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6850 FEET

5. PERFORATIONS

6428 FEET TO: 6139 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

35' CMT
CIBP @ 6300'

PERFS
8428'-8139'

35' CMT
CIBP @ 6650'

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

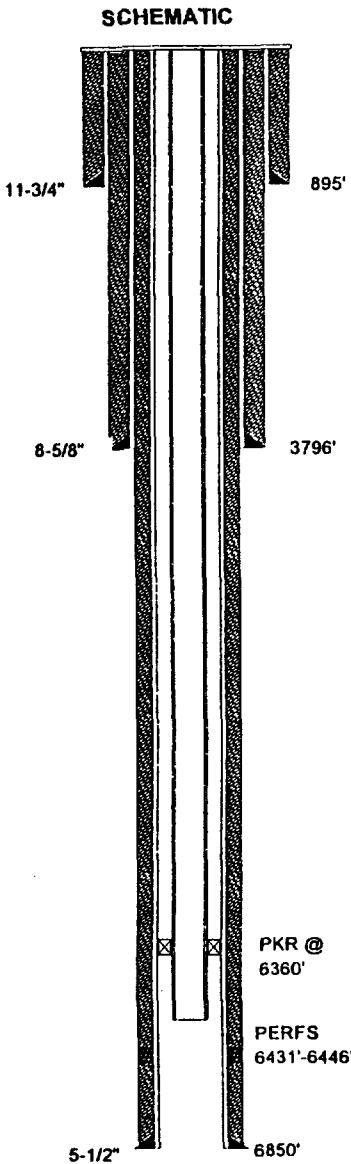
SECTION V



PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: S. A. BOWMAN FEDERAL

WELL NO 5 2310' FSL & 2160' FWL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1400 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1610 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6431 FEET TO: 6446 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6850 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

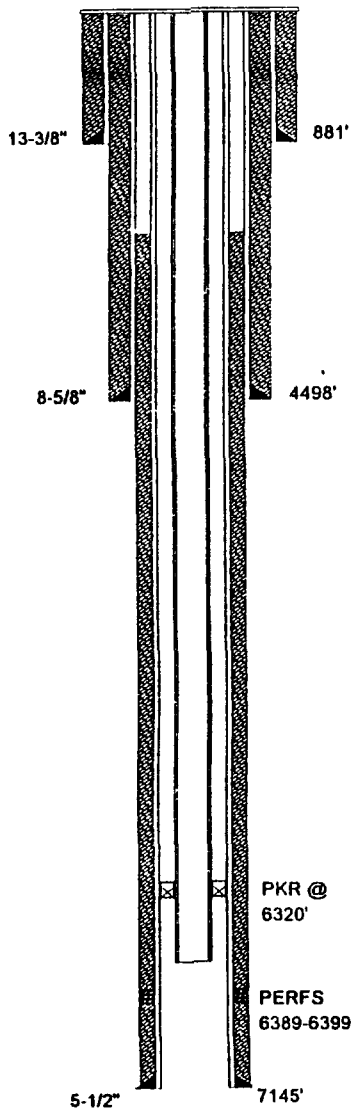
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 6 990' FSL & 660' FWL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 2600 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 940 SX
TOC: 4200 FEET DETERMINED BY: CALCULATED
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6389 FEET TO: 6399 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6320 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P.

LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO12

1980' FEL & 660' FSL

SEC-29

T-19-S

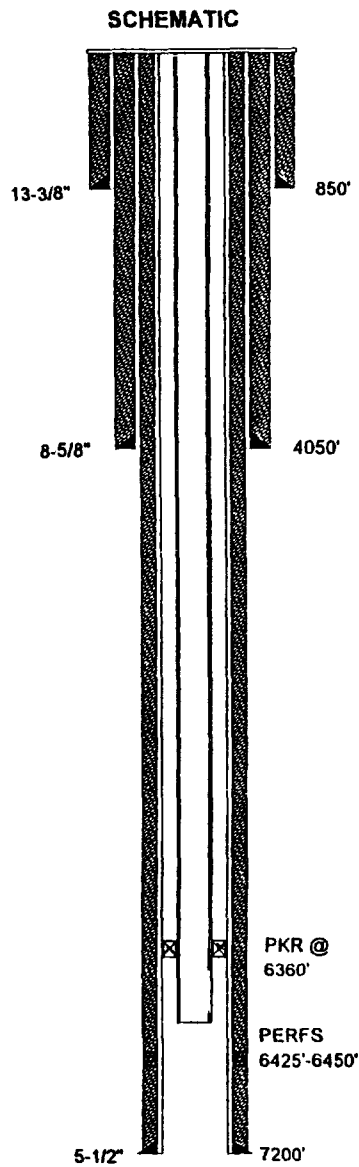
R-32-E

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHESCEMENTED WITH: 675 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHESCEMENTED WITH: 775 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHESCEMENTED WITH: 1265 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800' WATKINS YATES

N.E. LUSK YATES

S. LUSK YATES

5. STRAWN 11000'-11200' LUSK STRAWN OIL

6. ATOKA 11200'-11400' LUSK ATOKA GAS

2. DELAWARE 4600'-7100' W. LUSK DELAWARE

LUSK DELAWARE

7. MORROW 11500'-12000' LUSK MORROW GAS

N.W. LUSK MORROW GAS

N. LUSK MORROW GAS

3. BONE SPRING 8200'-8950' WATKINS BONE SPRING

LUSK BONE SPRING

S. LUSK BONE SPRING

E. LUSK BONE SPRING

4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

FORM C-108

SECTION III

APPLICATION FOR AUTHORIZATION

TO INJECT

Parker & Parsley

Development L.P.

WATER INJECTION WELL

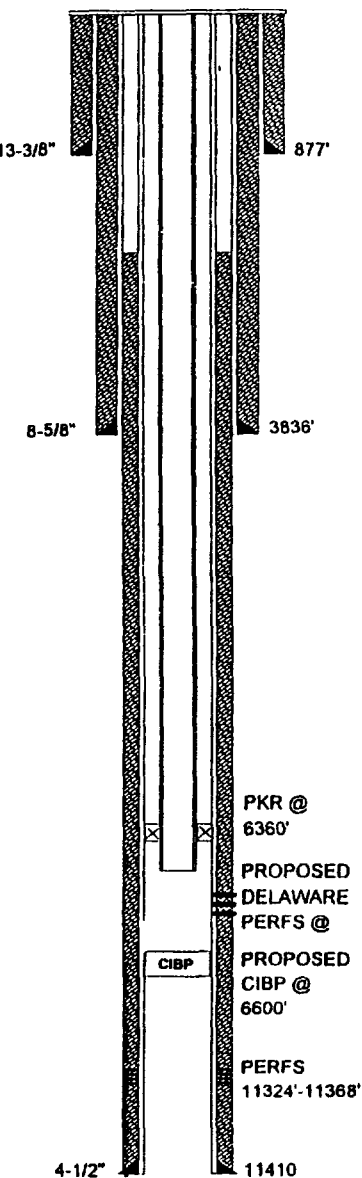
TABULATION OF WELL DATA

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL: 4 FOOTAGE LOCATION: 1650' FSL & 990' FEL SECTION: SEC-29 TOWNSHIP: T-19-S RANGE: R-32-E

SCHEMATIC



WELL CONSTRUCTION DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2660 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 SX
TOC: 3400 FEET DETERMINED BY: SQZ HOLE @ 3400' W/35 SXS CMT
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6430 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 11449 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO CURRENT OIL AND GAS PRODUCTION FROM STRAWN PERFS
11324'-11368'. PLAN TO SET CIBP @ 6600' W/5SXS CMT ON TOP & PERF DELAWARE @ 6430'-50' CONVERT TO WIW WELL.

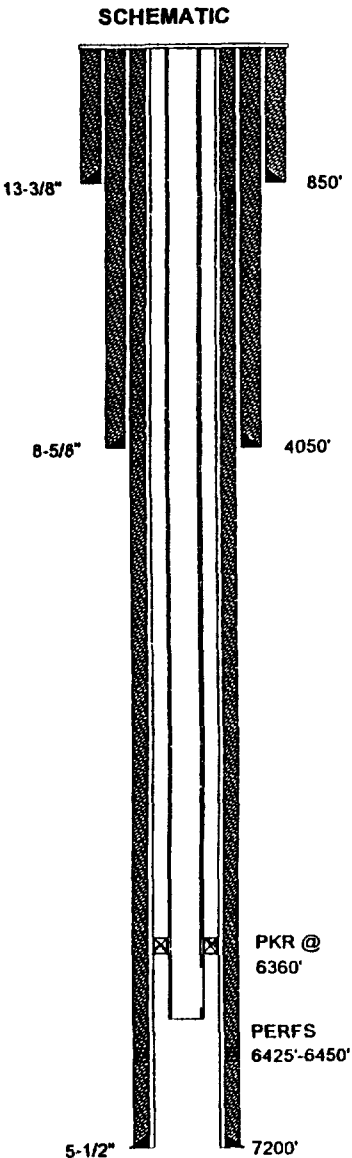
E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

- | | | |
|--|---|---|
| 1. YATES 2600'-2800' | WATKINS YATES
N.E. LUSK YATES
S. LUSK YATES | 5. STRAWN 11000'-112 LUSK STRAWN OIL |
| 2. DELAWARE 4600'-7100' | W. LUSK DELAWARE
LUSK DELAWARE | 6. ATOKA 11200'-1140 LUSK ATOKA GAS |
| 3. BONE SPRING 8200'-8950' WATKINS BONE SPRING | LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING | 7. MORROW 11500'-12 LUSK MORROW GAS
N.W. LUSK MORROW GAS
N. LUSK MORROW GAS |
| 4. WOLF CAMP 10100'-1070 | LUSK WOLFCAMP OIL
E. LUSK WOLFCAMP OIL
S. LUSK WOLFCAMP OIL | |

PROPOSED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 10 1980' FNL & 1980' FEL 1980' FNL & 1980' FEL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA

1. SUFACE CASING
SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING
SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING
SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE
SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

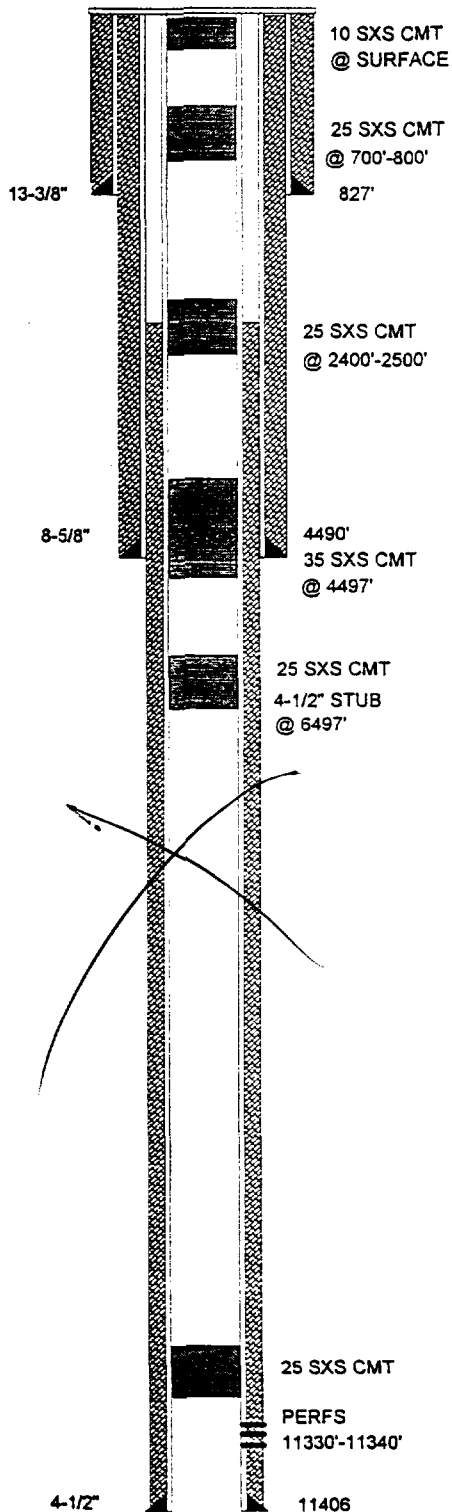
LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
2	990' FNL & 990' FWL	SEC-29	T-19-S	R-32-E

TYPE OF WELL: PLUGGED & ABANDONEDSPUD DATE: 3/15/63

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 sxTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2500 sxTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 sxTOC: 10100 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

TEXACO INC.

NEW MEXICO "CR" STATE

OPERATOR

LEASE

4
WELL NO.330' FNL & 1662' FWL
FOOTAGE LOCATIONSEC-32
SECTIONT-19-S
TOWNSHIPR-32-E
RANGE

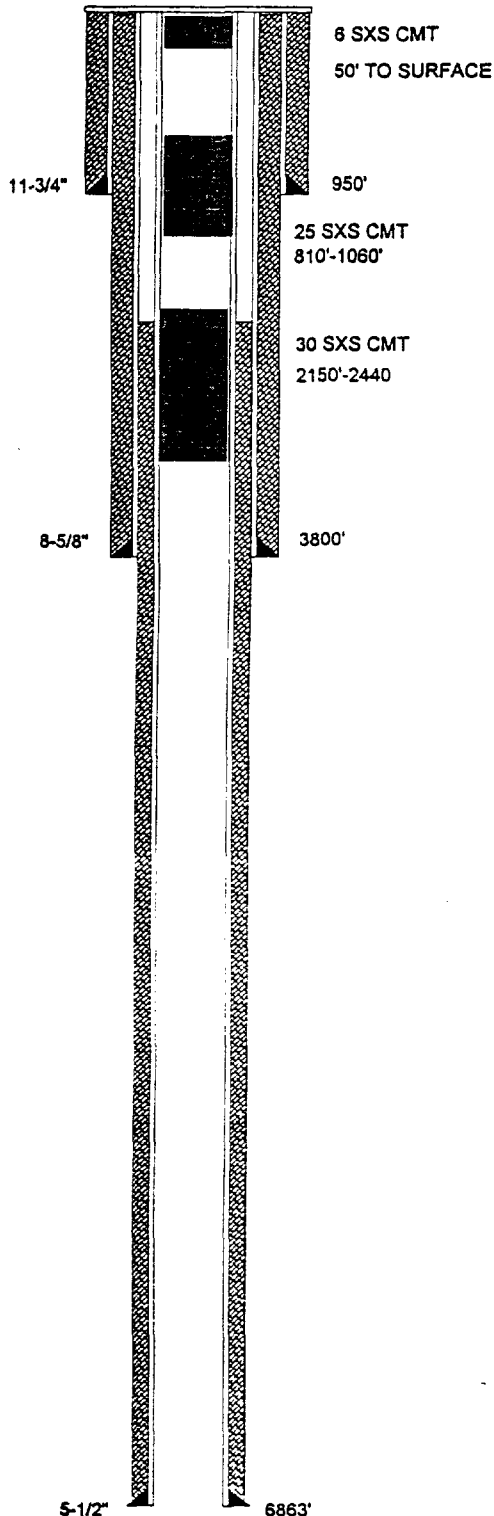
TYPE OF WELL:

DRY HOLE

SPUD DATE:

11/16/87

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2200 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1600 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6863 FEET

5. PERFORATIONS

6442 FEET TO: 6446 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

KINCAID & WATSON DRILLING CO.

SA BOWMAN FEDERAL

OPERATOR

LEASE

1

330' FSL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

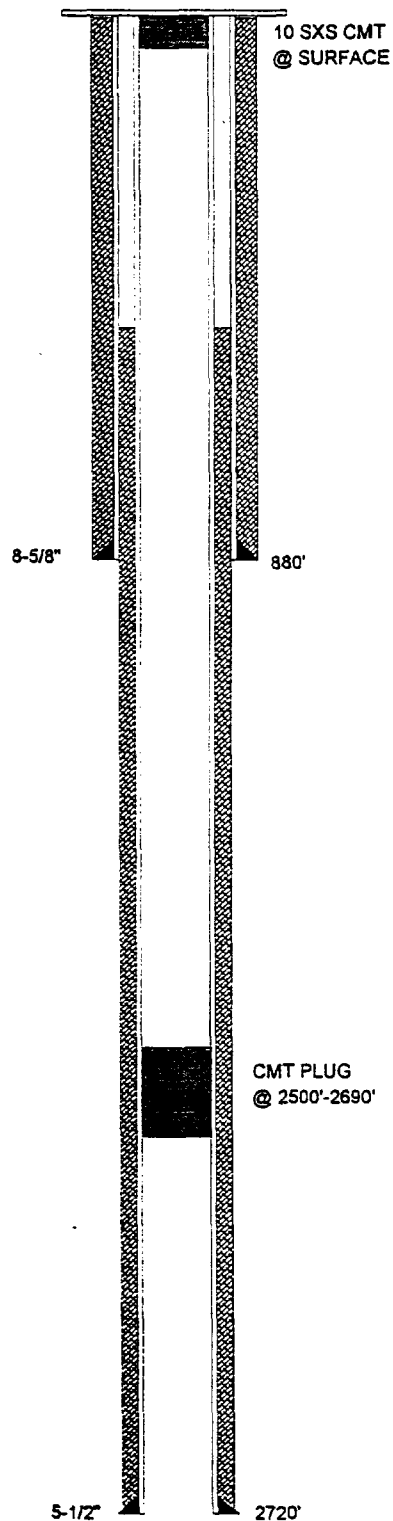
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

8/15/57

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SXTOC: 250 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2493 FEET TO: 2567 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC

OPERATOR

BOWMAN

LEASE

1

2310' FNL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

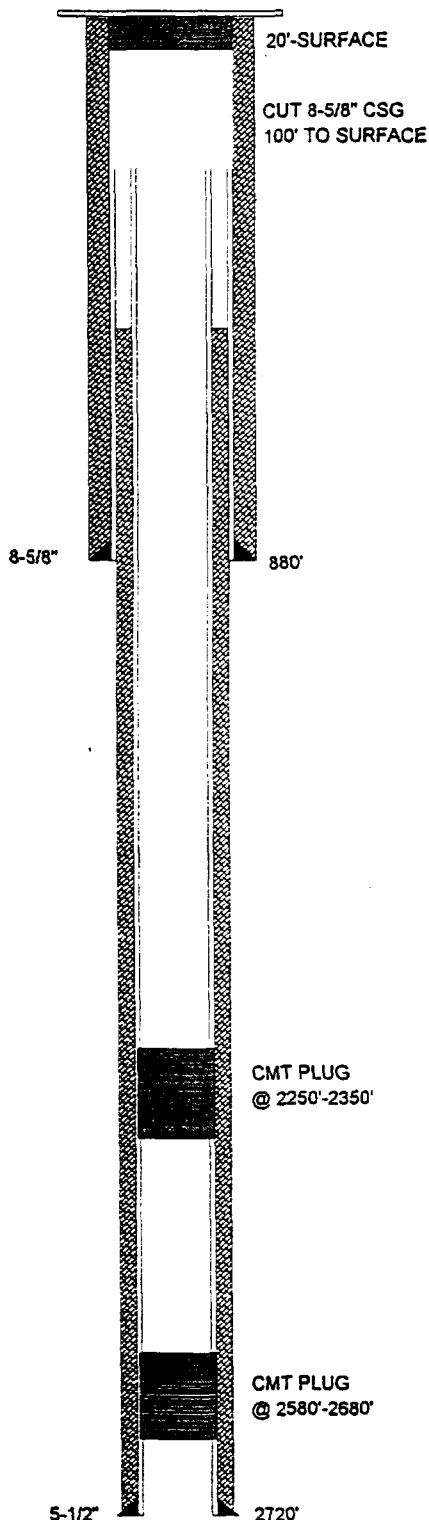
PLUGGED & ABANDONED

SPUD DATE:

10/10/67

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 700 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2628 FEET TO: 2648 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

N/A

CMT PLUG
@ 2250'-2350'

CMT PLUG
@ 2580'-2680'

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

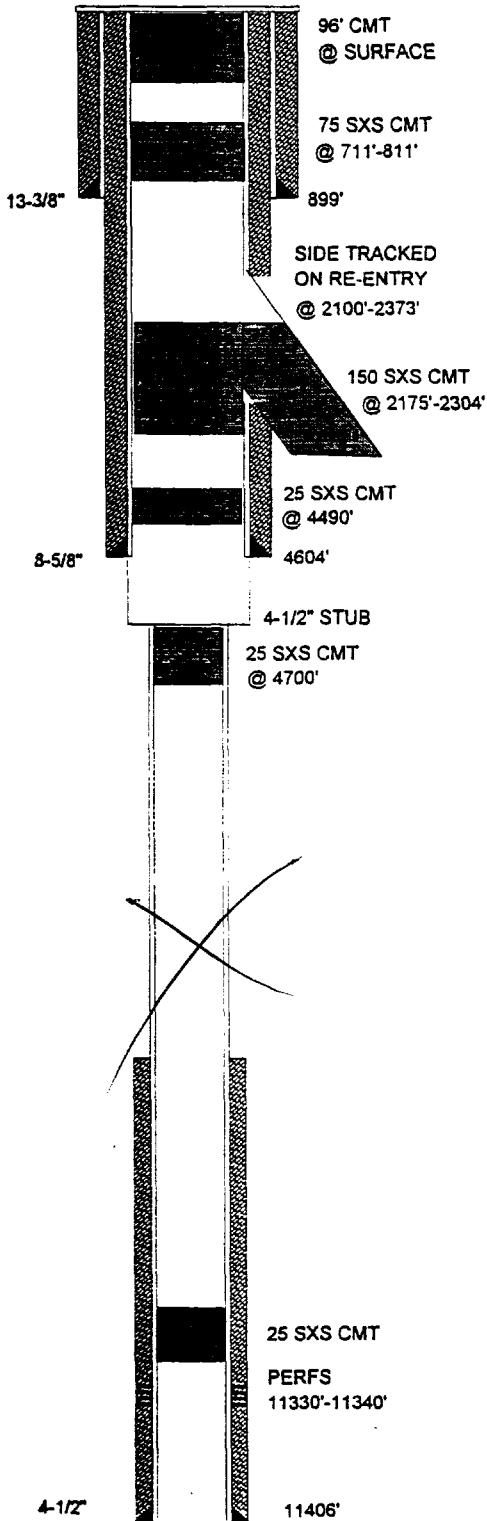
WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR	LEASE			
3	1980' FSL & 1980' FWL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PLUGGED & ABANDONED		SPUD DATE: 10/24/63		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 600 sx
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 sx
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 sx
 TOC: 10100 FEET DETERMINED BY: Temp. Survey
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

8

990' FNL & 1900' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

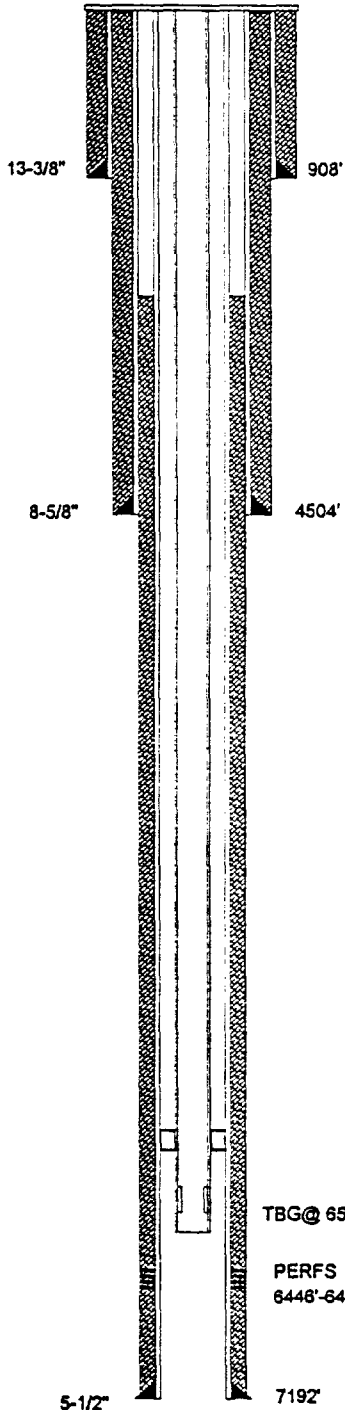
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

4/16/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 722 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2700 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SXTOC: 2280 FEET DETERMINED BY: Cmt Bond LogHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6446 FEET TO: 6452 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

7

2210' FNL & 2260' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

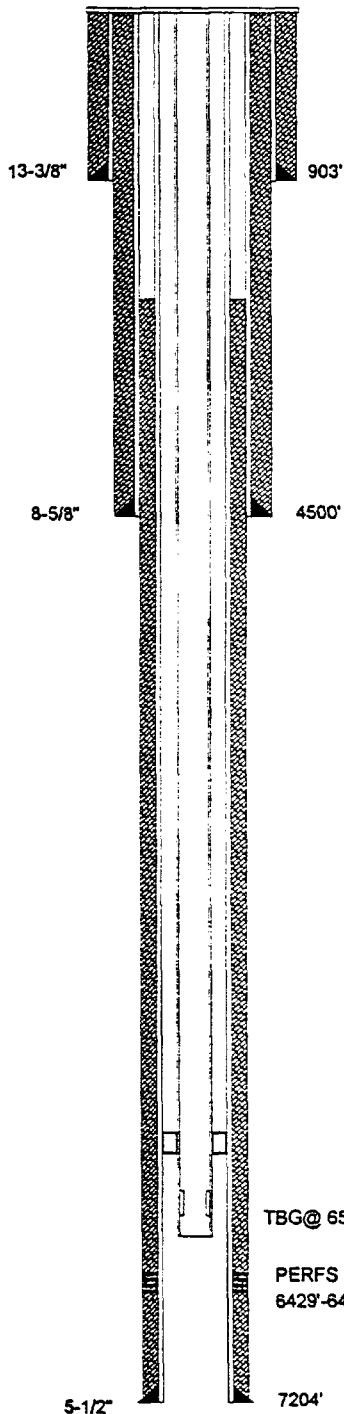
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/24/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2450 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 sx

TOC: 4000 FEET DETERMINED BY: Cmt Bond Log

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7204 FEET

5. PERFORATIONS

6429 FEET TO: 6442 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

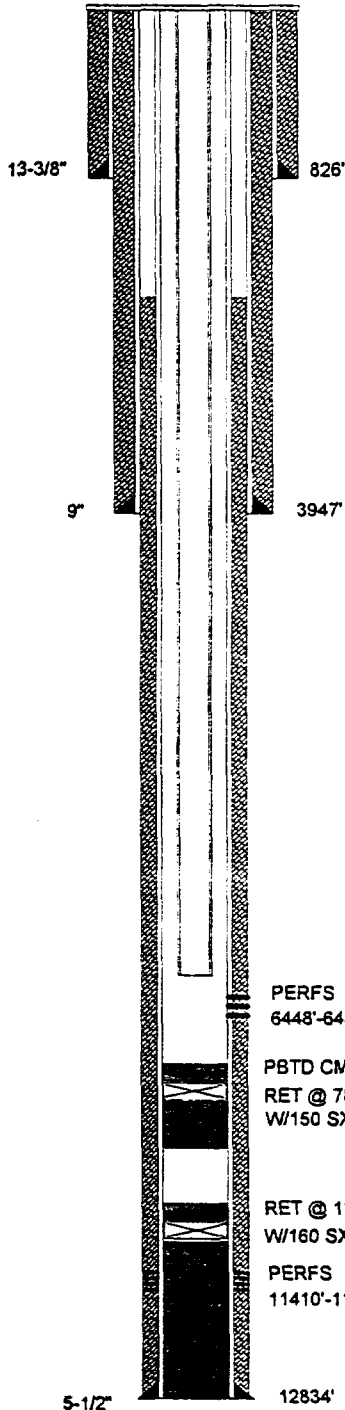
OPERATOR

LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	1980' FNL & 660' FEL	SEC-29	T-19-S	R-32-E

TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 3/23/62

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 950 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9 INCHES CEMENTED WITH: 2725 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2140 SX
 TOC: 2450 FEET DETERMINED BY: est. top of cmt sqz.
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12834 FEET

5. PERFORATIONS

6448 FEET TO: 6458 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

5

1980' FSL & 1980' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

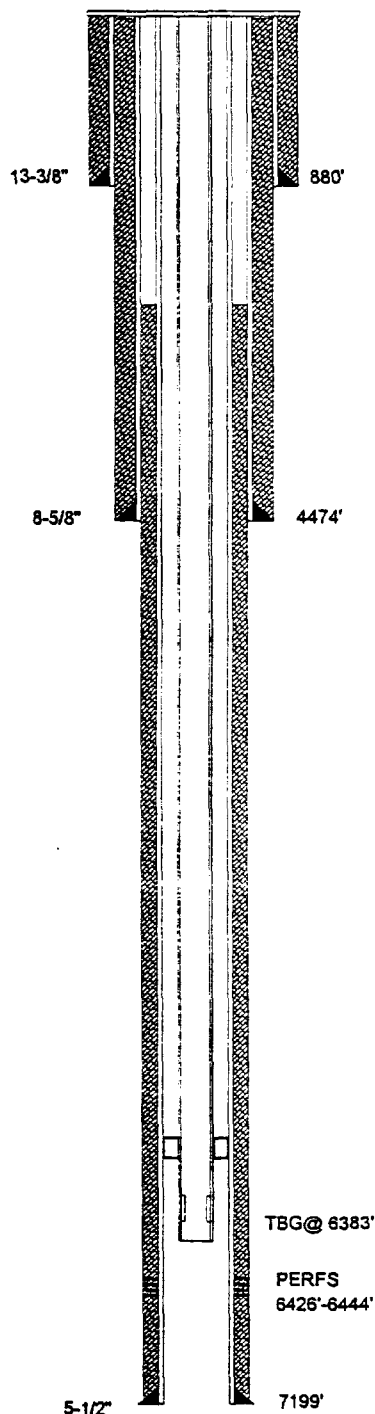
TOWNSHIP

RANGE

TYPE OF WELL: PRODUCING OIL AND GAS WELL

SPUD DATE: 12/5/87

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 SX

TOC: 4210 FEET DETERMINED BY: Cmt Bond Log

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6426 FEET TO: 6444 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

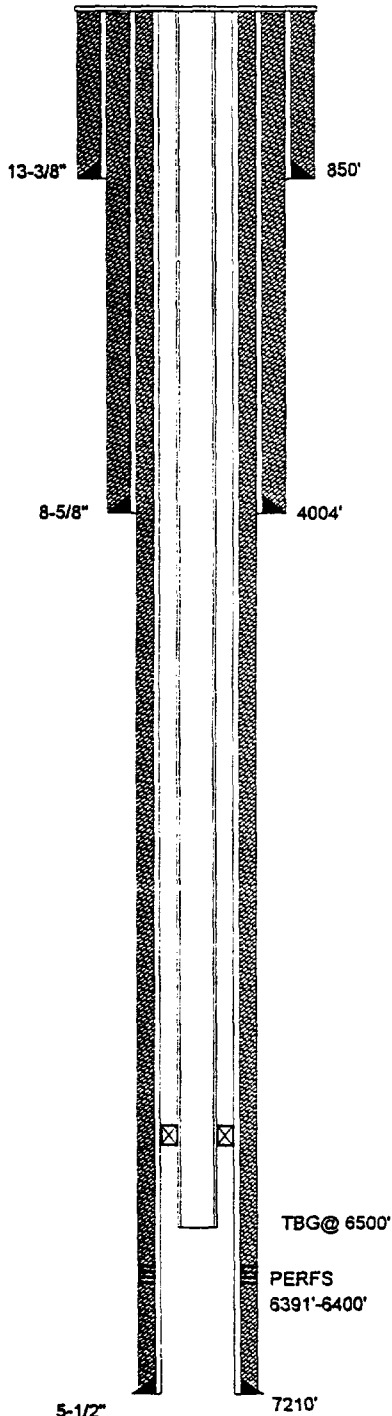
WELL DATA SHEET

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

OPERATOR		LEASE		
9	660' FWL & 1980' FSL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 7/21/96		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 **SX**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7210 FEET

5. PERFORATIONS

6391 FEET TO: 6400 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC

OPERATOR

SA BOWMAN FEDERAL

LEASE

4

990' FSL & 1659' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

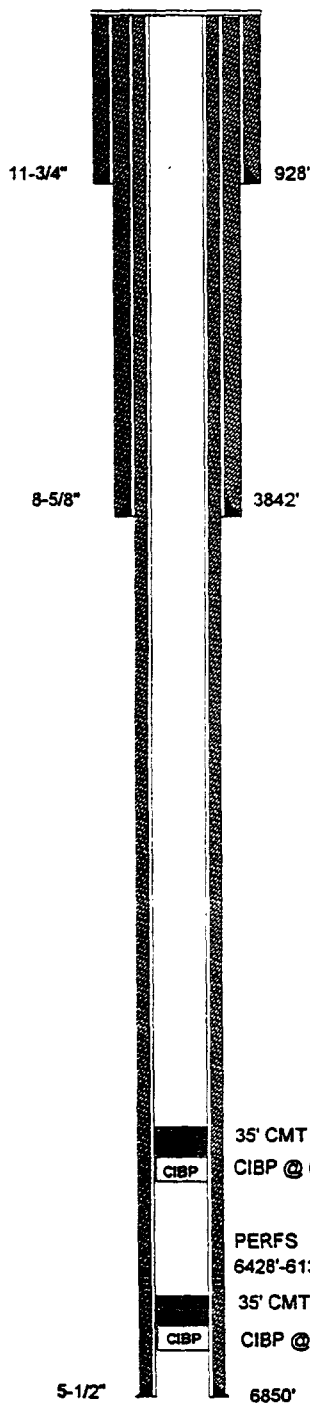
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

12/8/87

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1800 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6850 FEET

5. PERFORATIONS

6428 FEET TO: 6139 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

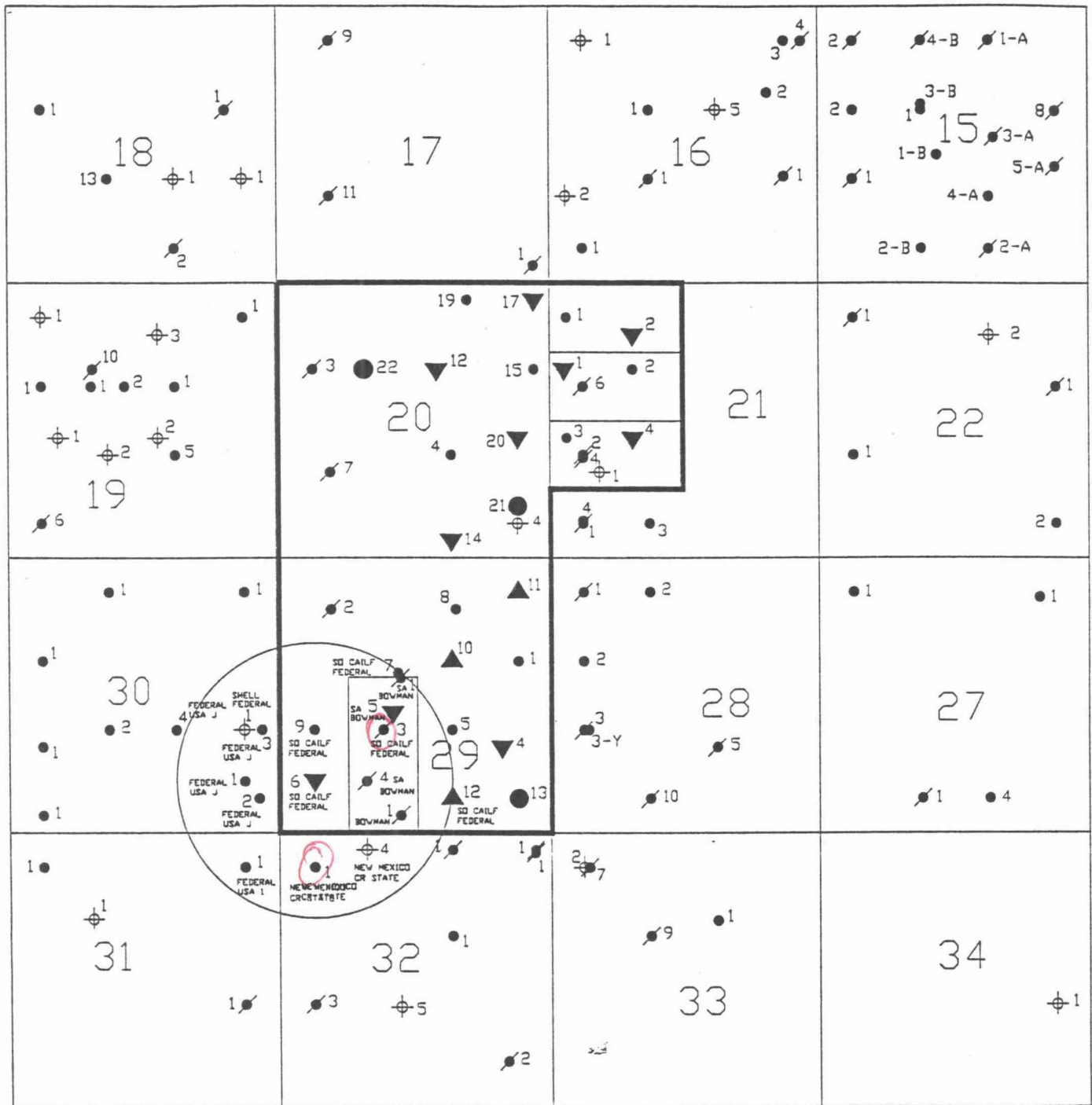
APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SECTION V



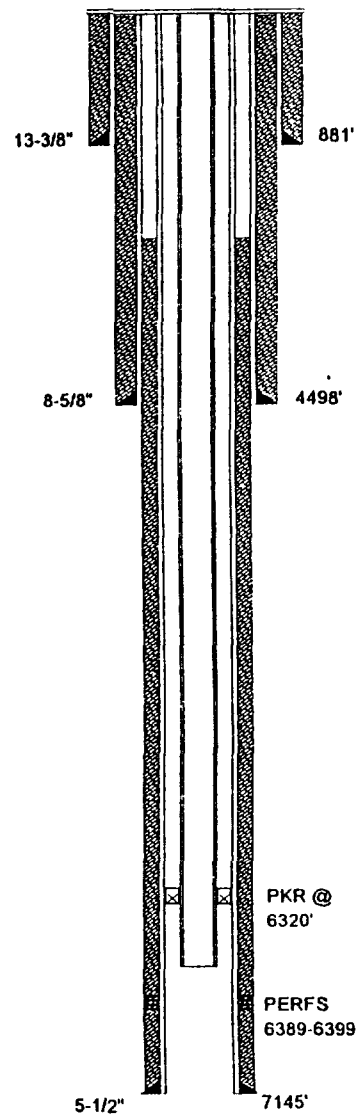
PRODUCED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 6 990' FSL & 660' FWL SEC-29 T-19-S R-32-E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2600 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 940 SX

TOC: 4200 FEET DETERMINED BY: CALCULATED

HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6389 FEET TO: 6399 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING

SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6320 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO

IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

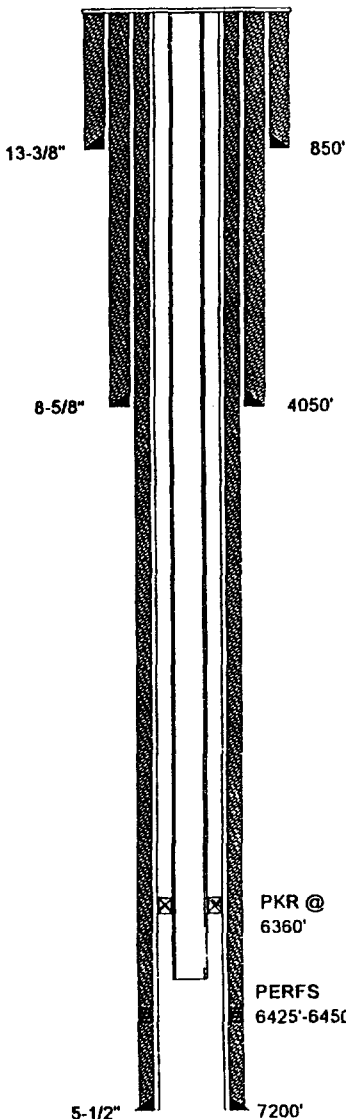
1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

USED INJECTION WELL DATA SHEET

OPERATOR: Parker & Parsley Development L.P. LEASE: SOUTHERN CALIFORNIA FEDERAL

WELL NO 12 1980' FEL & 660' FSL SEC-29 T-19-S R-32-E
FOOTAGE LOCATION SECTION TOWNSHIP RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 775 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 7200 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

PROPOSED INJECTION WELL DATA SHEET

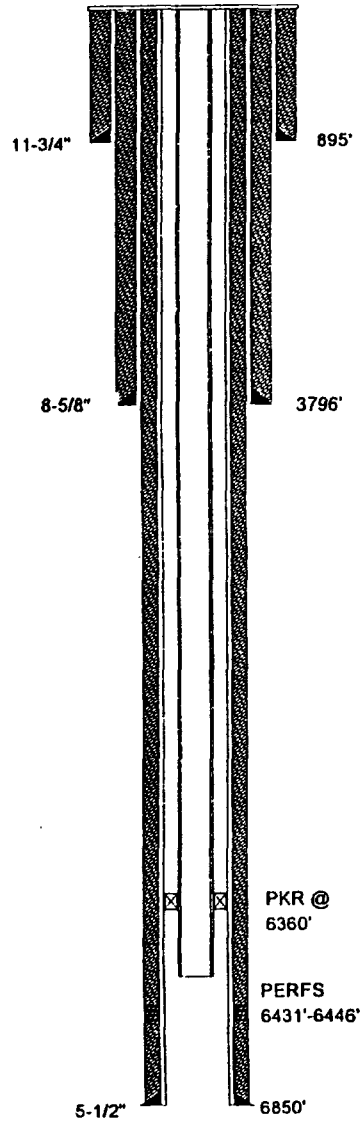
Parker & Parsley
Development L.P.

LEASE: S. A. BOWMAN FEDERAL

OPERATOR: PARKER & PARSELEY DEVELOPMENT L.P. LEASE: S. A. BOWMAN FEDERAL

WELL NO	5	2310' FSL & 2160' FWL	SEC-29	T-19-S	R-32-E
		FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

SCHEMATIC



WELL CONSTRUCTION DATA

1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1400 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1610 SX
TOC: Surface FEET DETERMINED BY: Circulated
HOLE SIZE: 7-7/8 INCHES

4. INJECTION INTERVAL 6431 FEET TO: 6446 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

5. TOTAL DEPTH: 6850 FEET

6. TUBING SIZE

SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING
SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET:

OTHER DATA

A. IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO
IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL

B. NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON)

C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE)

D. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

E. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA:

1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES S. LUSK YATES	5. STRAWN 11000'-11200'	LUSK STRAWN OIL
2. DELAWARE 4600'-7100'	W. LUSK DELAWARE LUSK DELAWARE	6. ATOKA 11200'-11400'	LUSK ATOKA GAS
3. BONE SPRING 8200'-8950'	WATKINS BONE SPRING LUSK BONE SPRING S. LUSK BONE SPRING E. LUSK BONE SPRING	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS
4. WOLF CAMP 10100'-10700'	LUSK WOLFCAMP OIL E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL		

FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Parsley
Development L.P.
WATER INJECTION WELL

TEXACO INC.

NEW MEXICO "CR" STATE

OPERATOR

LEASE

4

330' FNL & 1662' FWL

SEC-32

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

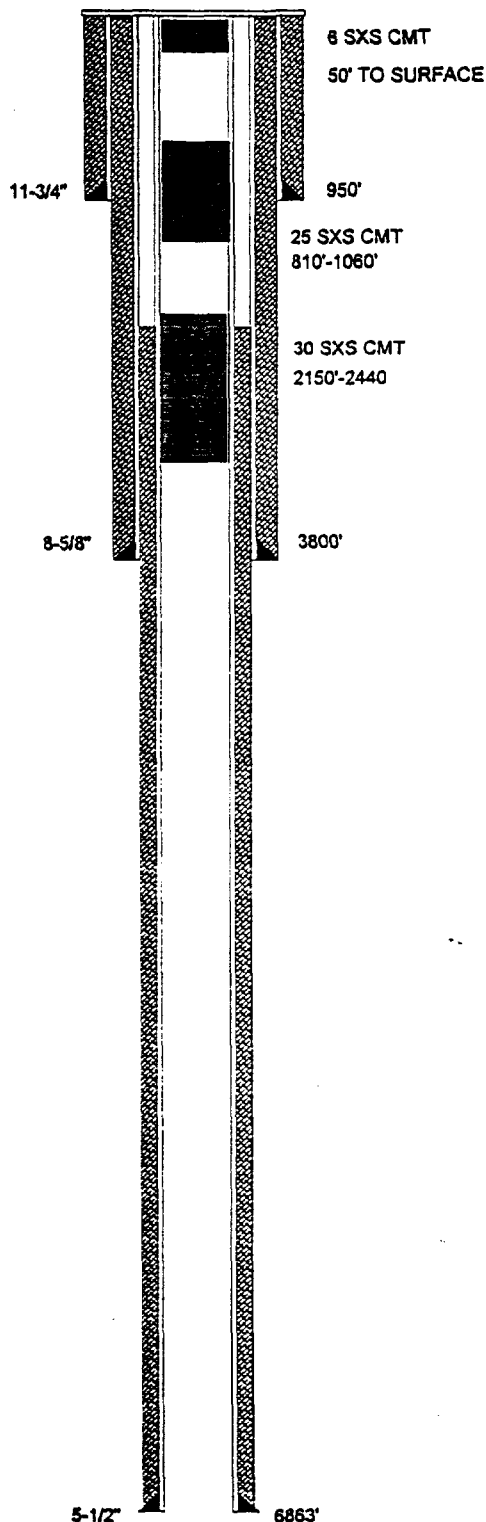
TYPE OF WELL:

DRY HOLE

SPUD DATE:

11/16/87

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2200 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1600 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6863 FEET

5. PERFORATIONS

6442 FEET TO: 6446 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

PAUL E. HASKINS

SHELL FEDERAL

OPERATOR

LEASE

1

1980' FSL & 600' FEL

SEC-30

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

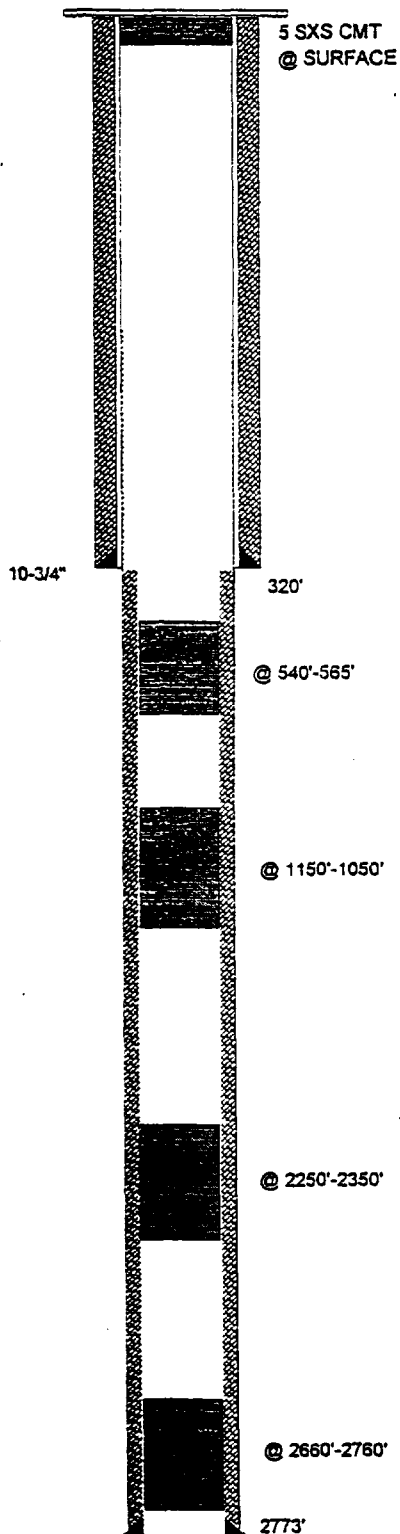
TYPE OF WELL:

DRY HOLE

SPUD DATE:

2/25/71

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 50 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 8-5/8 INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: 11 INCHES

4. TOTAL DEPTH: 3508 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

N/A

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC

SA BOWMAN FEDERAL

OPERATOR

LEASE

4

990' FSL & 1659' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

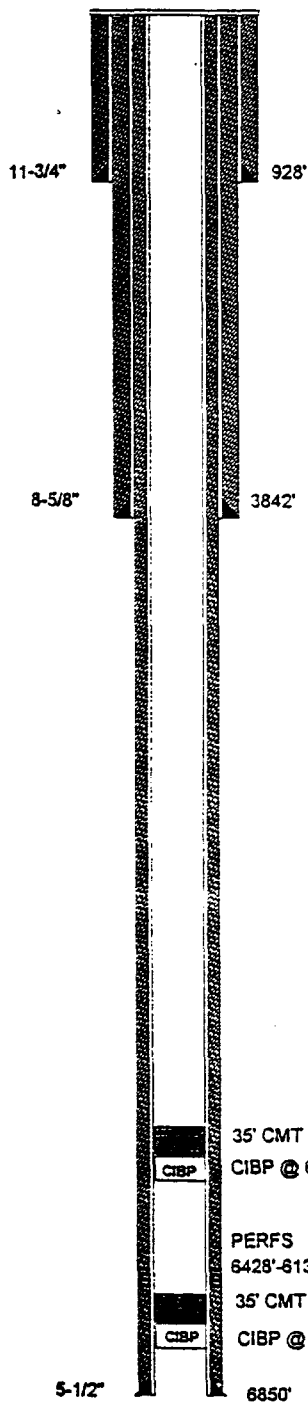
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

12/8/87

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1800 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6850 FEET

5. PERFORATIONS

6428 FEET TO: 6139 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

35' CMT
 CIBP @ 6300'

PERFS
 6428'-6139'

35' CMT
 CIBP @ 6650'

5-1/2' 6850'

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC.

FEDERAL USA "J"

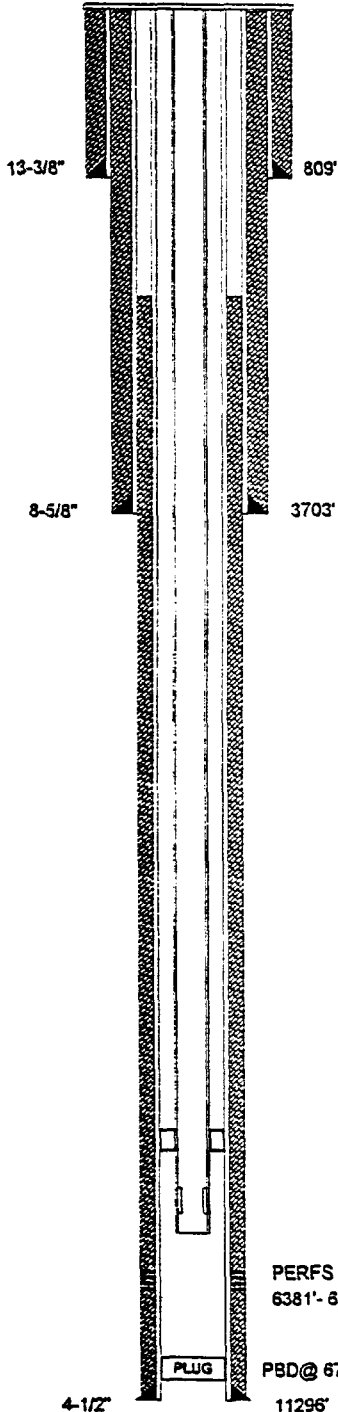
OPERATOR

LEASE

1	990' FSL & 660' FEL	SEC-30	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL:	PRODUCING OIL AND GAS WELL	SPUD DATE:	8/17/87
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SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 300 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1810 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 **SX**

TOC: 2780 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11300 FEET

5. PERFORATIONS

6381 FEET TO: 6386 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC.

FEDERAL USA "I"

OPERATOR

LEASE

1

660' FNL & 660' FEL

SEC-31

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

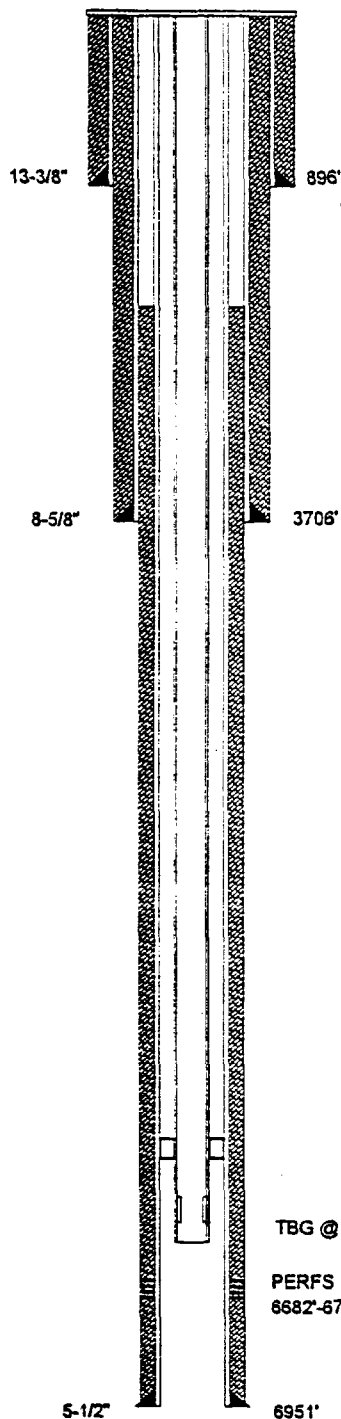
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

4/26/64

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 350 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 400 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1600 SX

TOC: 2780 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6981 FEET

5. PERFORATIONS

6682 FEET TO: 6727 FEET
 (PERFORATED OR OPEN HOLE; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC.

FEDERAL USA "J"

OPERATOR

LEASE

2

660' FSL & 385' FEL

SEC-30

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

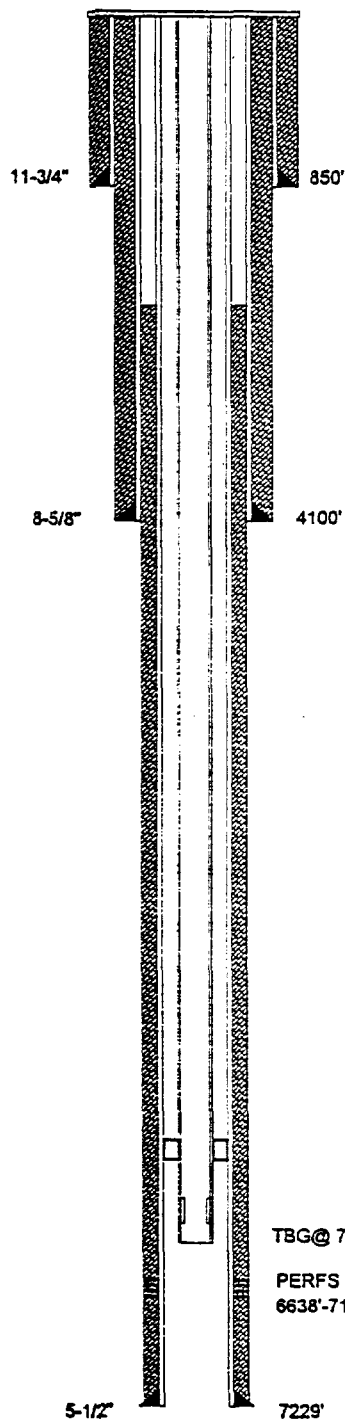
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

7/3/93

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 560 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2655 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 900 SXTOC: 3420 FEET DETERMINED BY: CalculatedHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 7229 FEET

5. PERFORATIONS

6638 FEET TO: 7102 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC.

FEDERAL USA "J"

OPERATOR

LEASE

3

1980' FSL & 330' FEL

SEC-30

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

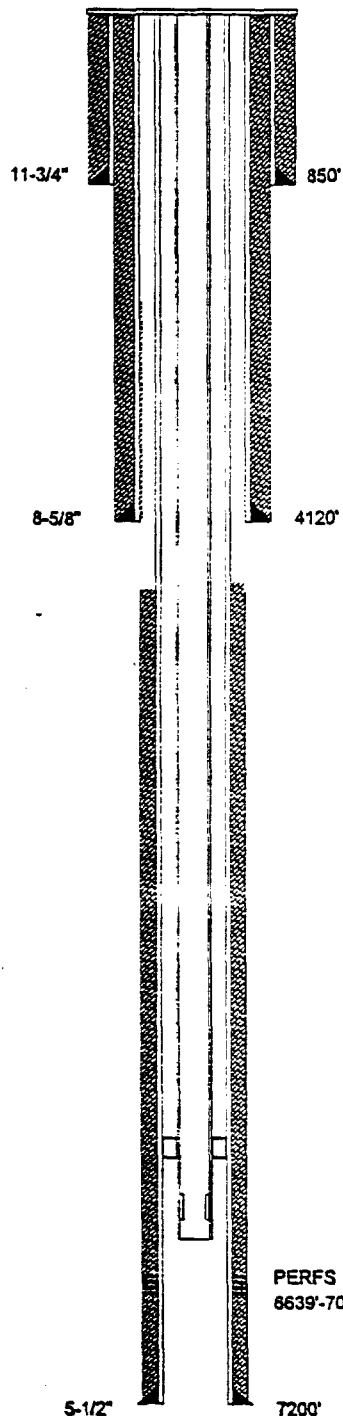
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

6/26/94

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 650 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2075 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 450 SXTOC: 5310 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6639 FEET TO: 7088 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

KINCAID & WATSON DRILLING CO.

SA BOWMAN FEDERAL

OPERATOR

LEASE

1

330' FSL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

8/15/57

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 250 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2493 FEET TO: 2567 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

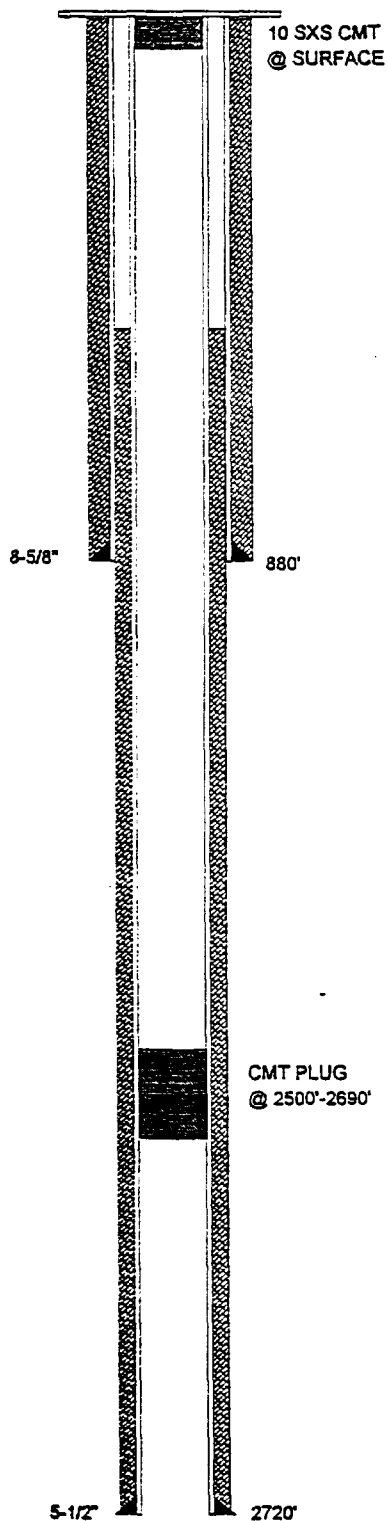
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

CMT PLUG
@ 2500'-2690'FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA



TEXACO INC

BOWMAN

OPERATOR

LEASE

1

2310' FNL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

10/10/67

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2628 FEET TO: 2648 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

N/A

CMT PLUG
@ 2250'-2350'

CMT PLUG
@ 2580'-2680'

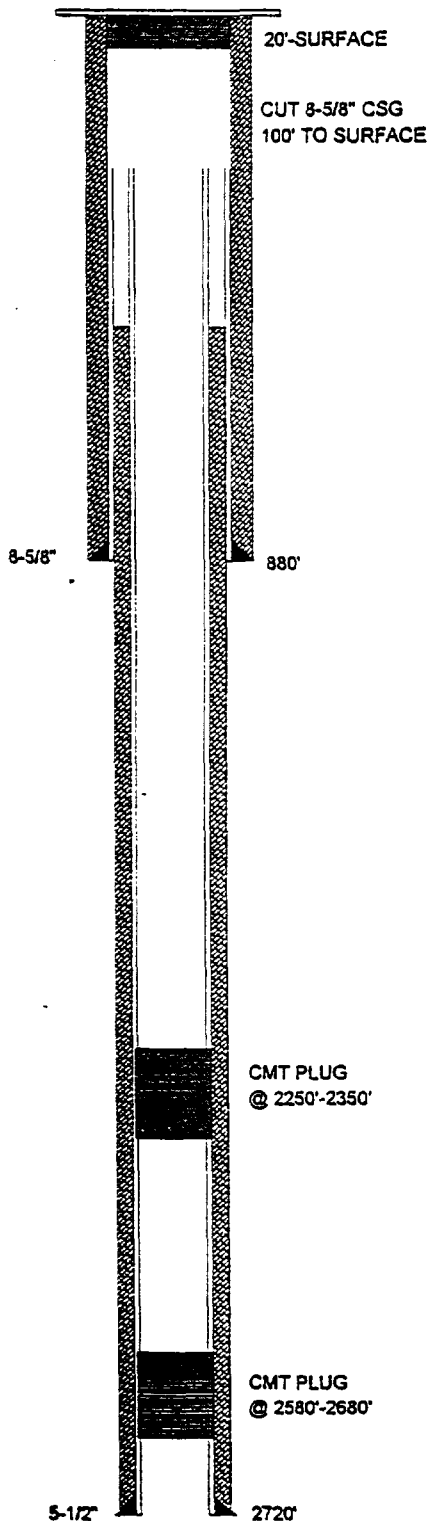
FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA



**Parker & Parsley
Development L.P.**

OPERATOR

SOUTHERN CALIFORNIA FEDERAL

LEASE

3
WELL NO.

1980' FSL & 1980' FWL
FOOTAGE LOCATION

SEC-29
SECTION

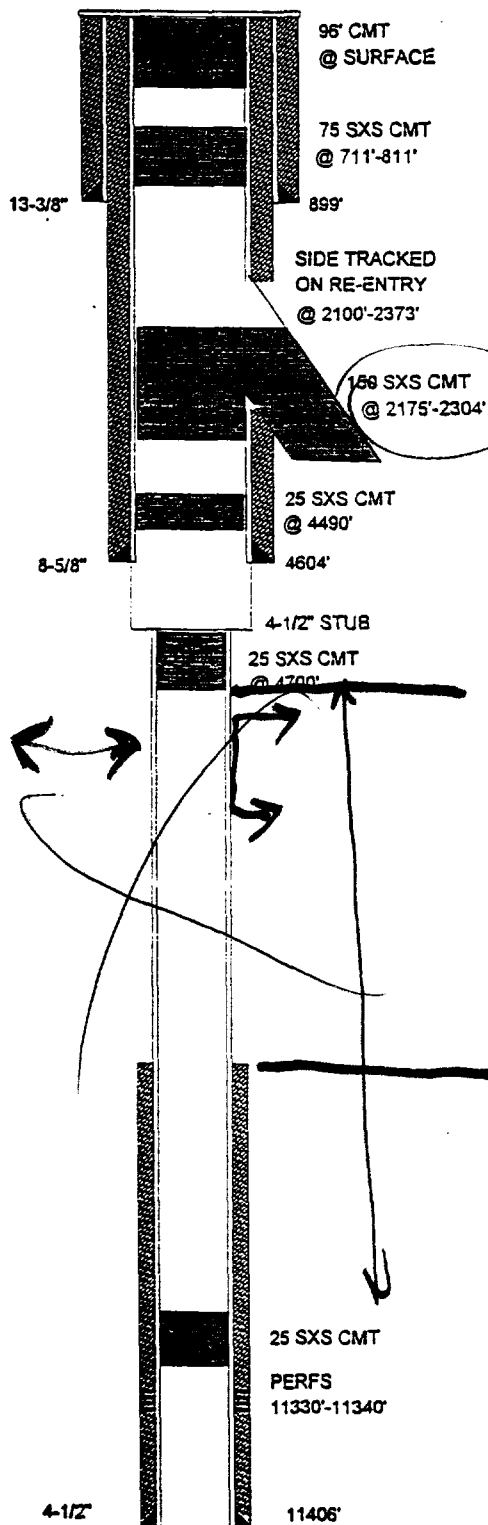
T-19-S
TOWNSHIP

R-32-E
RANGE

TYPE OF WELL: PLUGGED & ABANDONED

SPUD DATE: 10/24/63

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 600 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 sx

TOC: 10100 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC.

NEW MEXICO "CR" STATE

OPERATOR

LEASE

1

660' FNL & 660' FWL

SEC-32

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

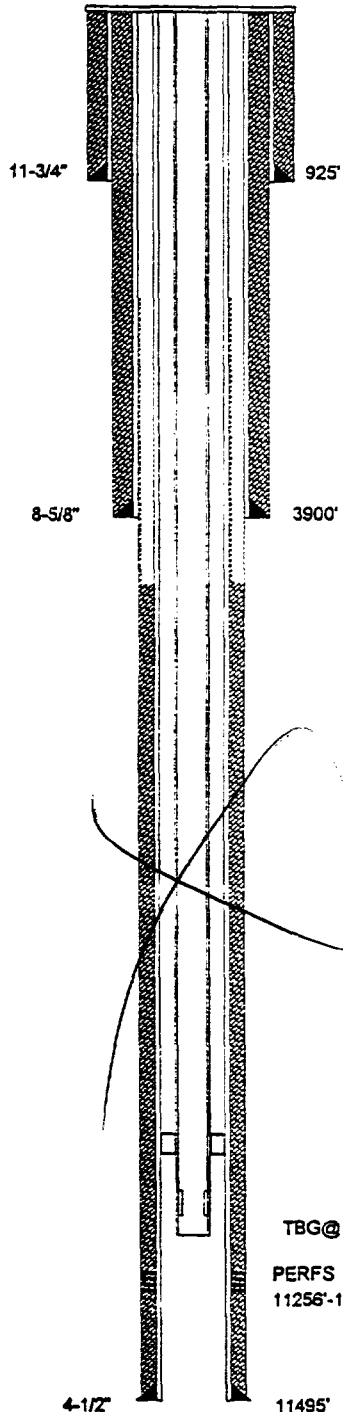
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

7/3/90

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 600 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 600 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 SX

TOC: 6400 FEET DETERMINED BY: Calculated

HOLE SIZE: 17-1/8 INCHES

Cmt Sqz Perfs & Leaks

4. TOTAL DEPTH: 11500 FEET

5. PERFORATIONS

11256 FEET TO: 11304 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

SOUTHERN CALIFORNIA FEDERAL

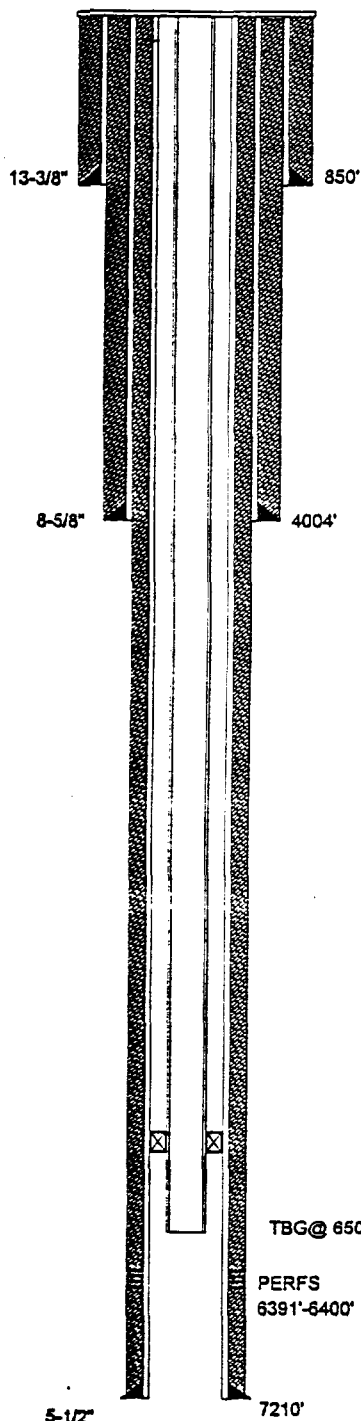
OPERATOR

LEASE

9	660' FWL & 1980' FSL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL: PRODUCING OIL AND GAS WELL **SPUD DATE:** 7/21/96

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 **INCHES** **CEMENTED WITH:** 675 **SX**
TOC: Surface **FEET DETERMINED BY:** Circulated
HOLE SIZE: 17-1/2 **INCHES**

2. INTERMEDIATE CASING

SIZE: 8-5/8 **INCHES** **CEMENTED WITH:** 1325 **SX**
TOC: Surface **FEET DETERMINED BY:** Circulated
HOLE SIZE: 11 **INCHES**

3. LONG STRING

SIZE: 5-1/2 **INCHES** **CEMENTED WITH:** 1265 **SX**
TOC: Surface **FEET DETERMINED BY:** Circulated
HOLE SIZE: 7-7/8 **INCHES**

4. TOTAL DEPTH: 7210 **FEET**

5. PERFORATIONS

6391 **FEET TO:** 6400 **FEET**
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

TABULATIONS OF WELL DATA

SECTION VI

WELL DATA SHEET

YATES HARVEY E

LUSK "16" STATE

OPERATOR

LEASE

2

1650' FSL & 330' FWL

SEC-16

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

DRY HOLE

SPUD DATE:

7/30/89

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 3475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6600 FEET

5. PERFORATIONS

6506 FEET TO: 6506 FEET

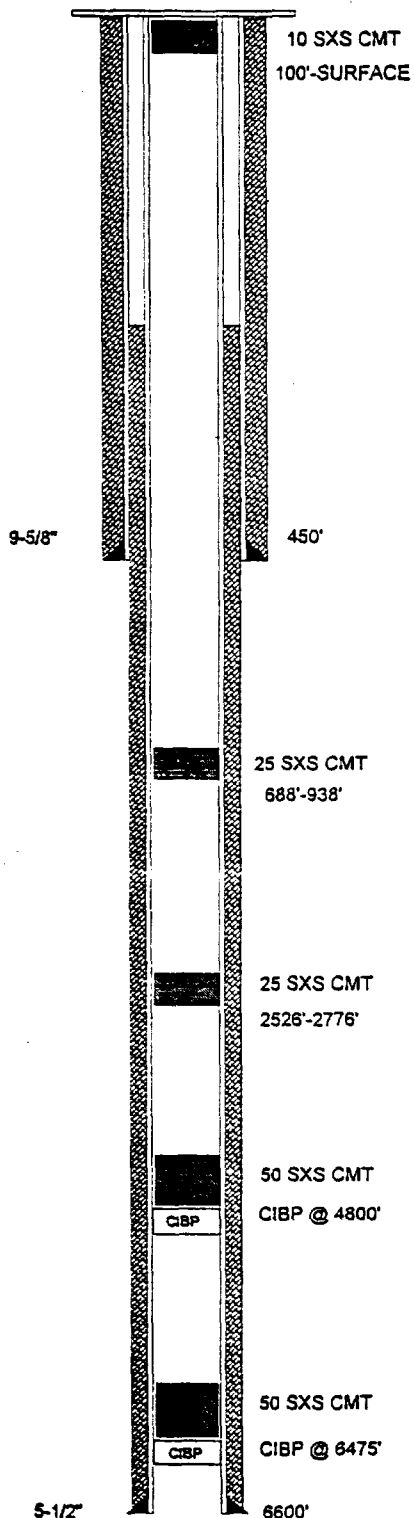
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

KERSEY & CO.

ATLANTIC

OPERATOR

LEASE

1

1650' FSL & 990' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

DRY HOLE

SPUD DATE:

9/18/59

SCHEMATIC

TABULAR DATA

CEMENT MARKER

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 60 SX

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: PULLED INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: PULLED INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

4. TOTAL DEPTH: 2710 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

N/A

FILLED WITH MUD

10 SXS CMT, PLUG

2710'

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC.

NEW MEXICO "CR" STATE

OPERATOR

LEASE

4

330' FNL & 1662' FWL

SEC-16

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

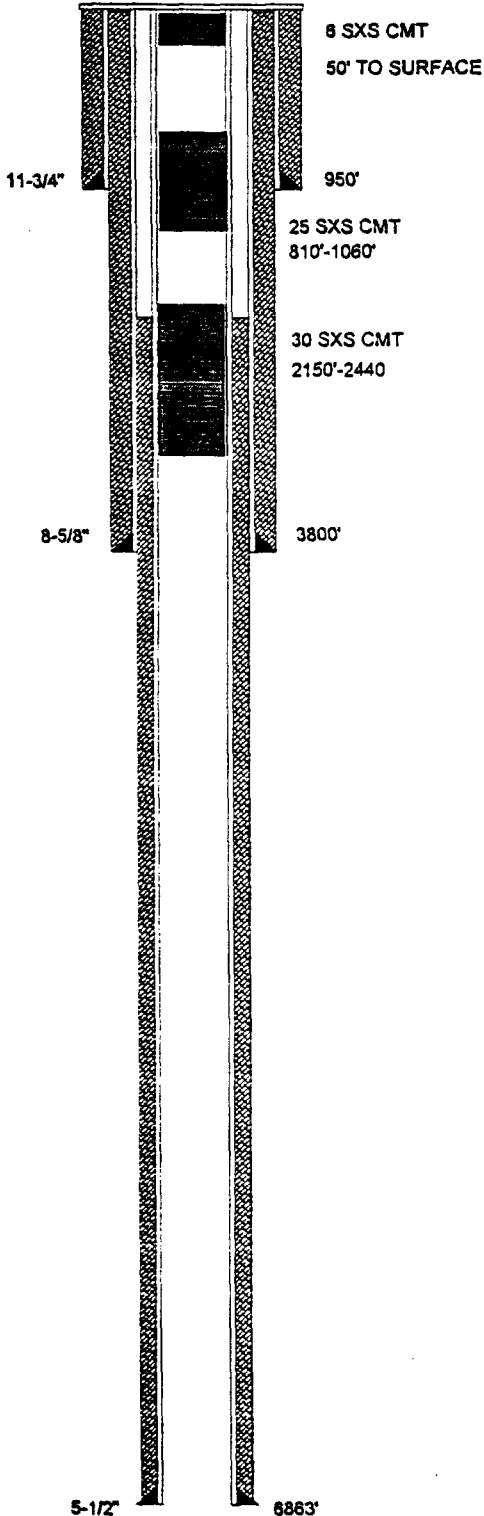
DRY HOLE

SPUD DATE:

11/16/87

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2200 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1600 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6863 FEET

5. PERFORATIONS

6442 FEET TO: 6446 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

CULBERTSON-IRWIN INC.

LYNCH

OPERATOR

LEASE

4

660' FSL & 660' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

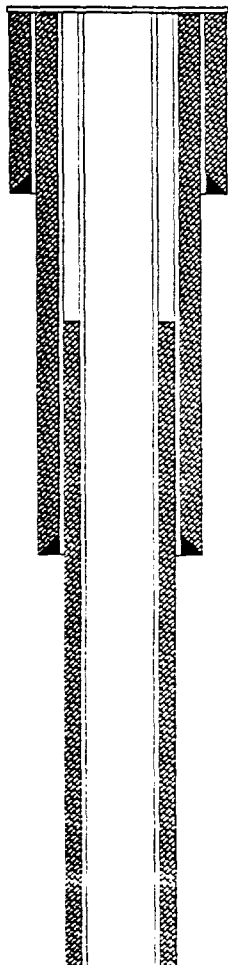
TYPE OF WELL:

DRY HOLE

SPUD DATE:

10/30/43

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

4. TOTAL DEPTH: 2820 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

UNKNOWN

FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240

WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

PAUL E. HASKINS

SHELL FEDERAL

OPERATOR

LEASE

1

1980' FSL & 600' FEL

SEC-30

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

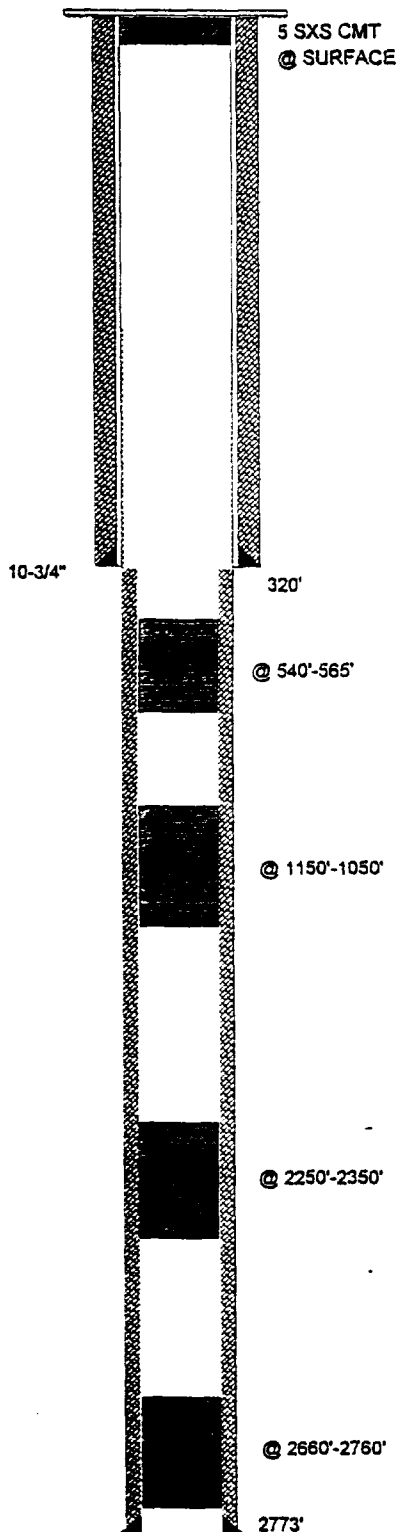
TYPE OF WELL:

DRY HOLE

SPUD DATE:

2/25/71

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 50 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 8-5/8 INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: 11 INCHES

4. TOTAL DEPTH: 3508 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. N/AFORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

MARBOB ENERGY CORP.

AQUEDUCT AGG FEDERAL

OPERATOR

LEASE

1

330' FSL & 330' FEL

SEC-17

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

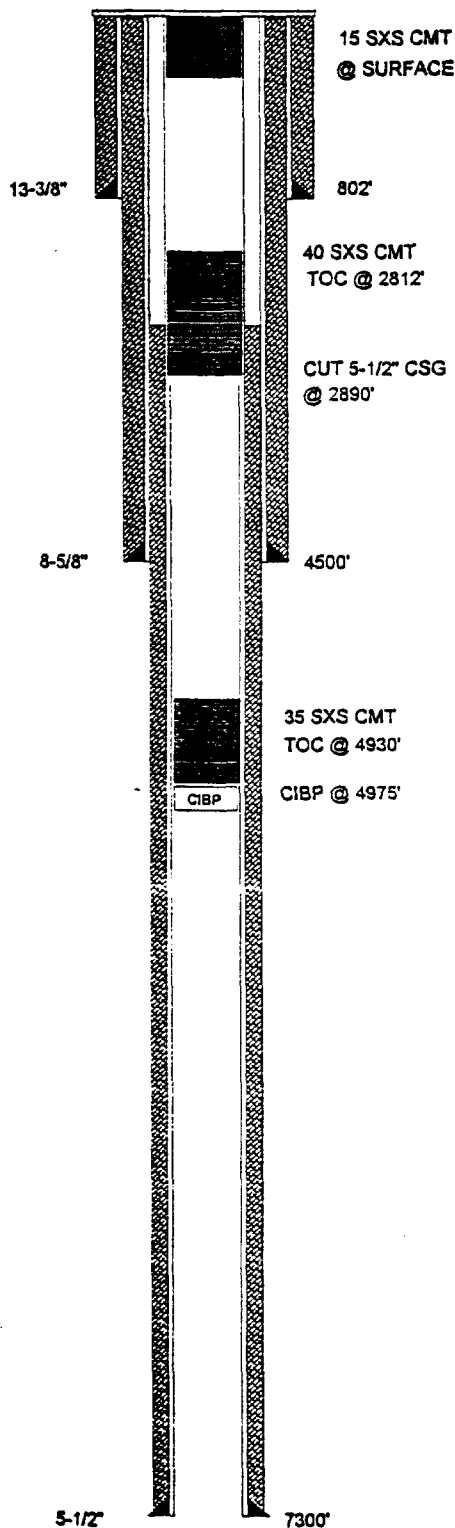
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

6/11/89

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 800 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2950 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 975 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7300 FEET

5. PERFORATIONS

6486 FEET TO: 6498 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP UNIT "A"

OPERATOR

LEASE

3
WELL NO.

1650' FNL & 660' FWL
FOOTAGE LOCATION

SEC-20
SECTION

T-19-S
TOWNSHIP

R-32-E
RANGE

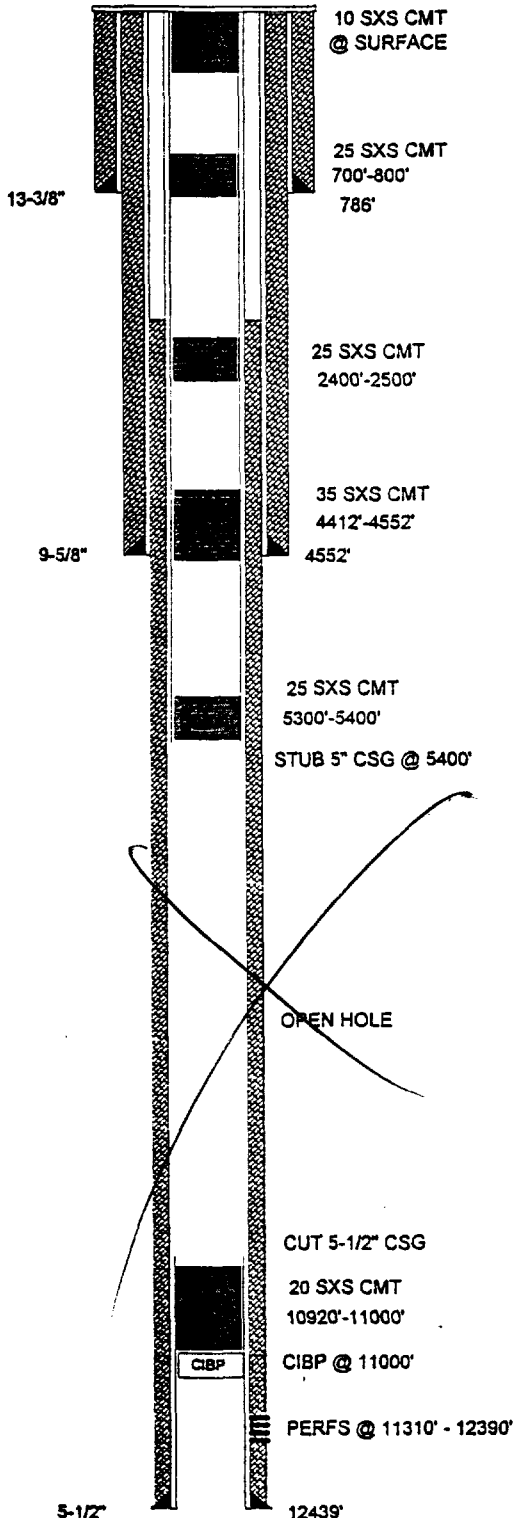
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

7/22/61

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 2730 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 382 SX

TOC: 10605 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12623 FEET

5. PERFORATIONS

11310 FEET TO: 12390 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

OPERATOR

LUSK DEEP UNIT

LEASE

7

1650' FSL & 990' FWL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

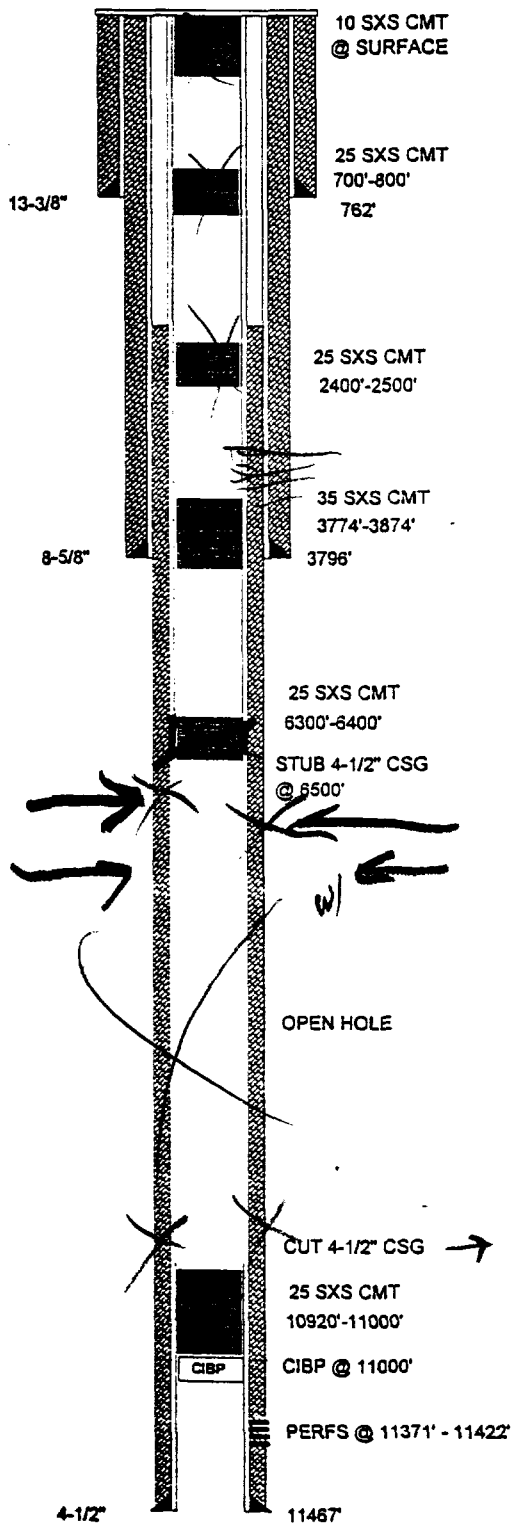
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

2/11/64

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 775 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 7600 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11467 FEET

5. PERFORATIONS

11371 FEET TO: 11422 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

1

660' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

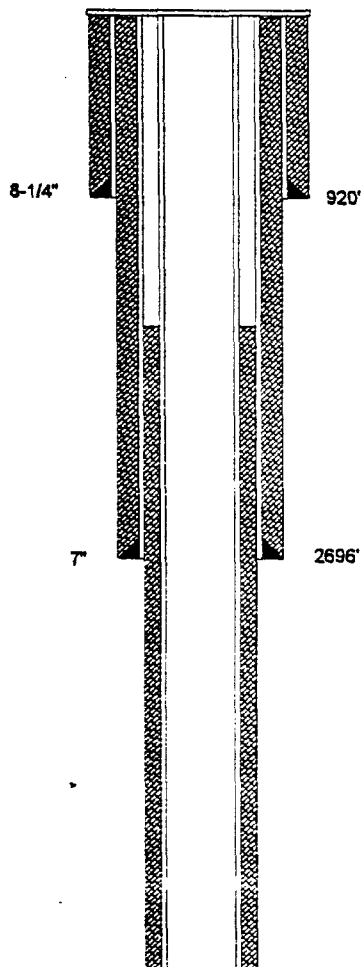
RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE: 12/18/41

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-1/4 INCHES CEMENTED WITH: 50 sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

2. INTERMEDIATE CASING

SIZE: 7 INCHES CEMENTED WITH: 100 sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

3. LONG STRING

SIZE: UNKNOWN INCHES CEMENTED WITH: UNKNOWN sx

TOC: UNKNOWN FEET DETERMINED BY: UNKNOWN

HOLE SIZE: UNKNOWN INCHES

4. TOTAL DEPTH: 2751 FEET

5. PERFORATIONS

UNKNOWN FEET TO UNKNOWN FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

UNKNOWN

FROM: DOWNS OIL AND RESEARCH
1424 PAIGE
HOBBS, N.M. , 88240

WELLS DRILLED BACK IN THE 1940'S
THAT WERE ON FEDERAL LAND WERE
NOT REQUIRED TO FURNISH THE OCD
WITH COPIES OF THE PUGGING LOG.
SO ALL THAT IS AVAILABLE IS THE
INFORMATION ON THE SCOUT TICKET.

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

2

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

4/11/42

SCHEMATIC

TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

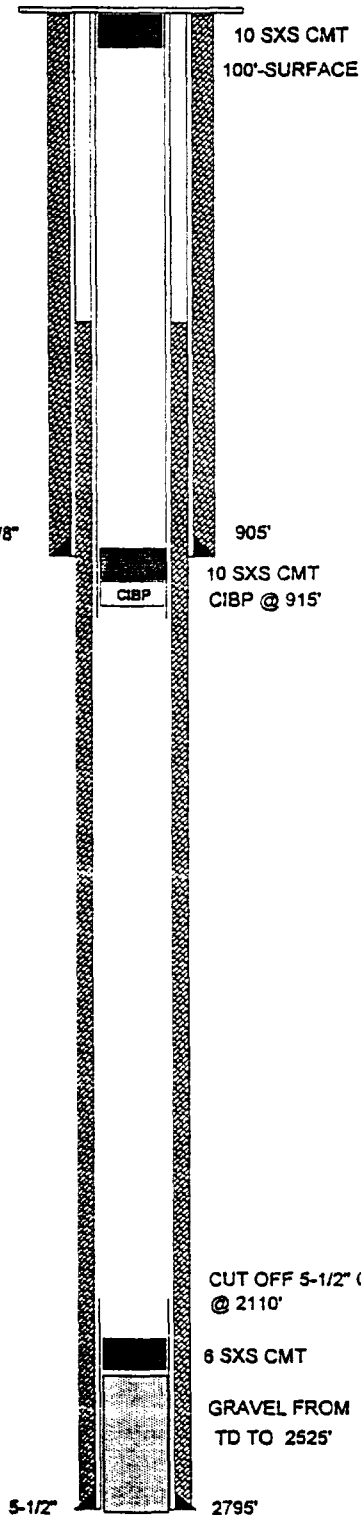
SIZE: 5-1/2 INCHES CEMENTED WITH: 100 SXTOC: 2400 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 2820 FEET

5. PERFORATIONS

2680 FEET TO: 2955 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.NONEFORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4

1930' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

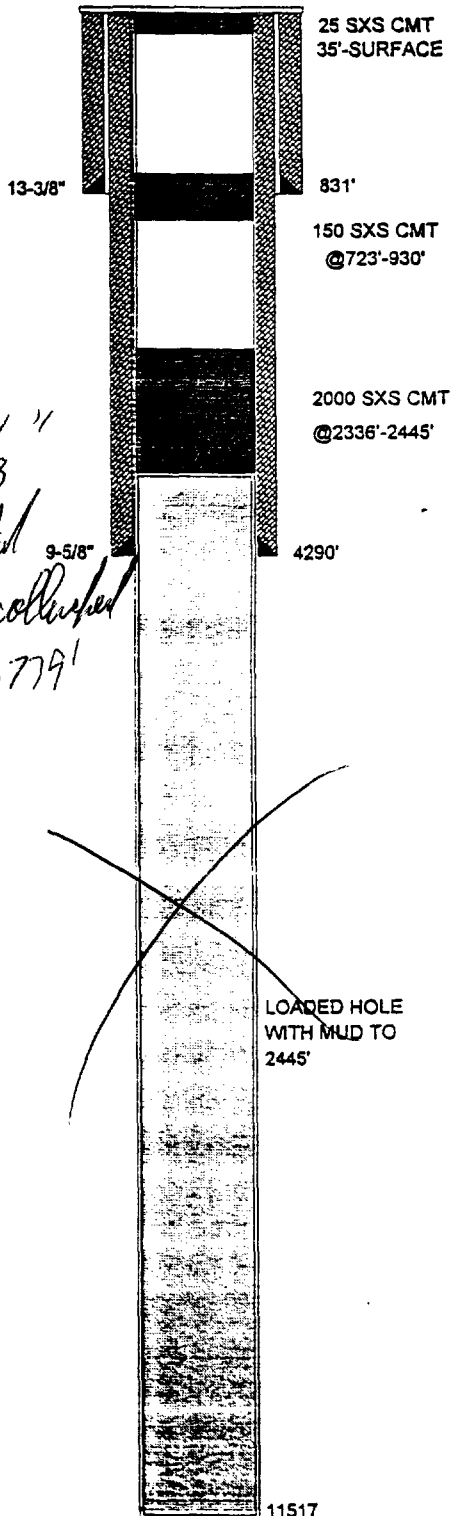
PLUGGED & ABANDONED

SPUD DATE:

9/12/63

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 725 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: INCHES

4. TOTAL DEPTH: 11517 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA-

WELL DATA SHEET

CULBERTSON-IRWIN INC.

BOWMAN

OPERATOR

LEASE

1

660' FNL & 660' FWL

SEC-28

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

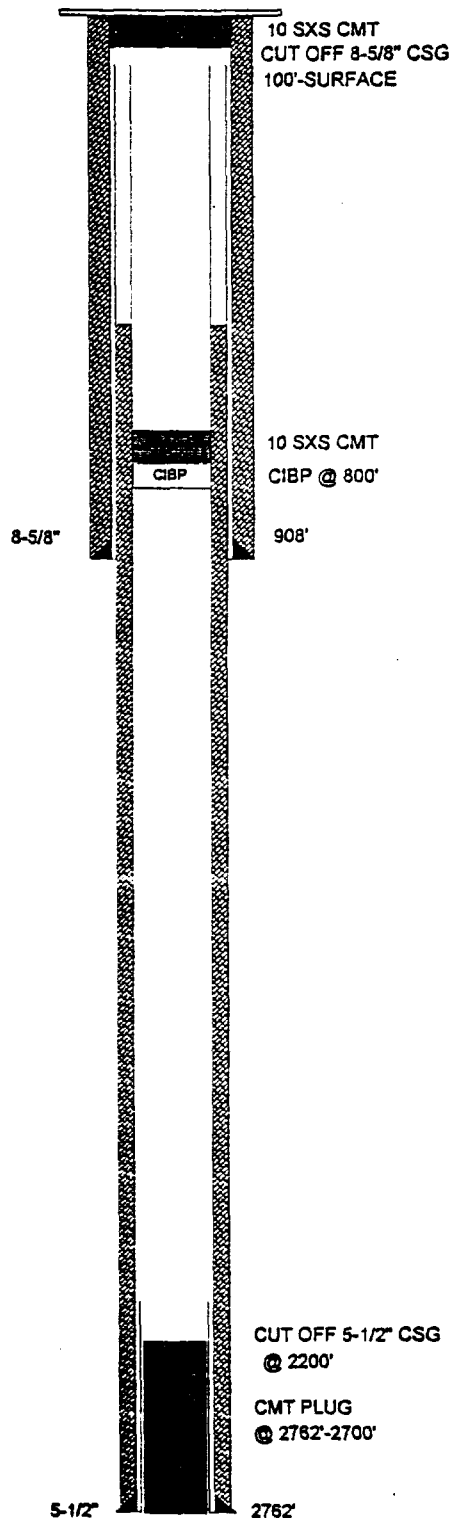
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

2/21/42

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 100 SX

TOC: 2391 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2811 FEET

5. PERFORATIONS

2680 FEET TO: 2955 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC

BOWMAN

OPERATOR

LEASE

1

2310' FNL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

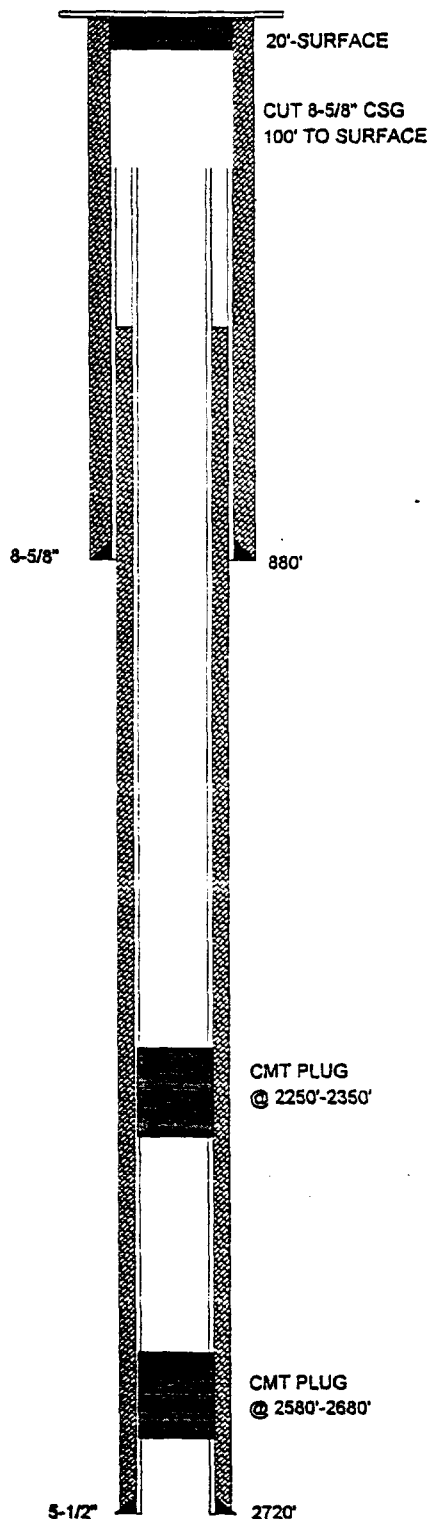
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

10/10/67

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SX

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2628 FEET TO: 2648 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

N/A

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

KINCAID & WATSON DRILLING CO.

SA BOWMAN FEDERAL

OPERATOR

LEASE

1

330' FSL & 2310' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

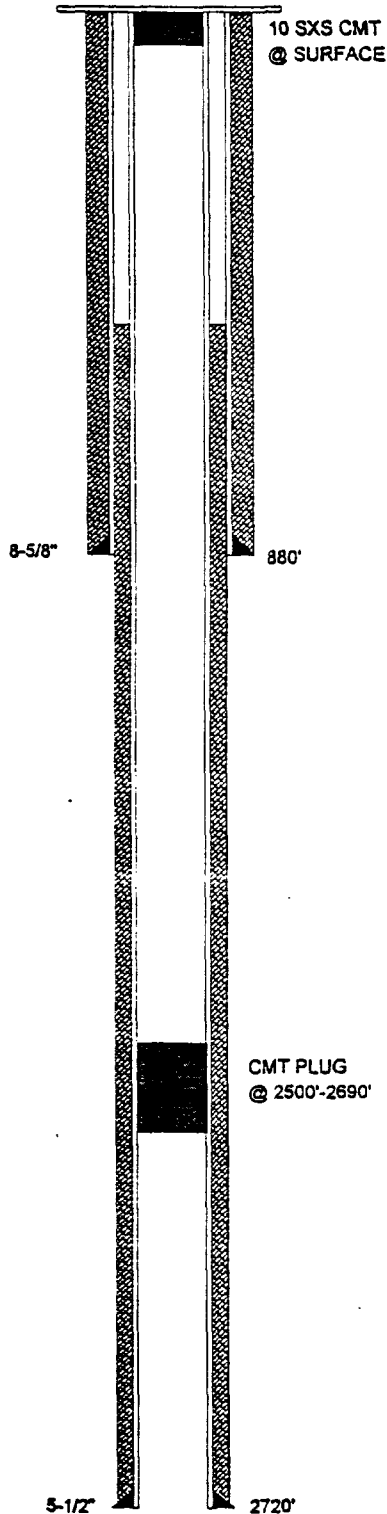
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

8/15/57

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 500 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SXTOC: 250 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 2770 FEET

5. PERFORATIONS

2493 FEET TO: 2567 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED

DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED.

NONE

CMT PLUG
@ 2500'-2690'FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

TEXACO INC

SA BOWMAN FEDERAL

OPERATOR

LEASE

4

990' FSL & 1659' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

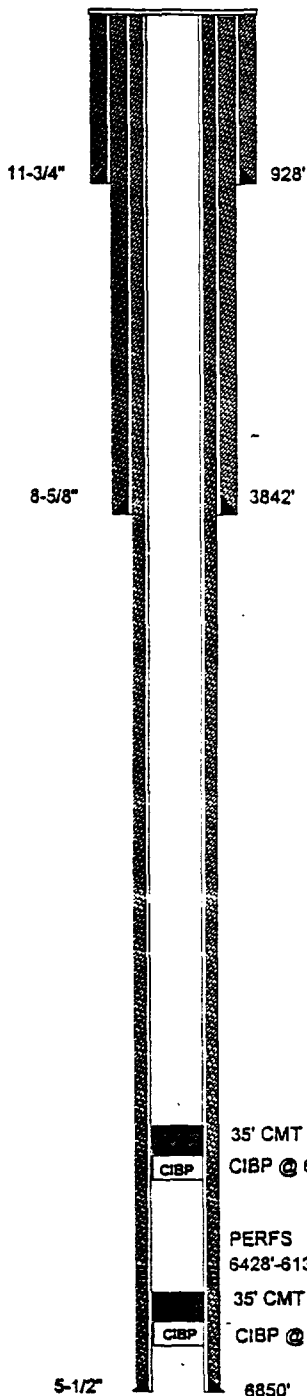
PLUGGED & ABANDONED

SPUD DATE:

12/8/87

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 14-3/4 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1800 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1750 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6850 FEET

5. PERFORATIONS

6428 FEET TO: 6139 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

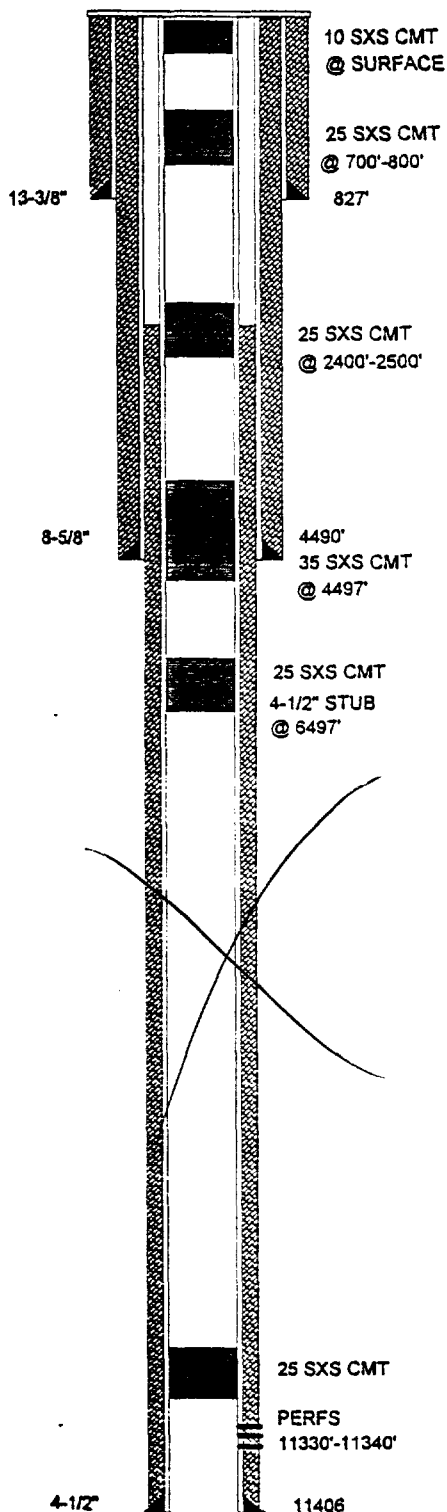
WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR	LEASE			
2	990' FNL & 990' FWL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PLUGGED & ABANDONED		SPUD DATE: 3/15/63		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 900 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2500 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 SX

TOC: 10100 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

OPERATOR

SOUTHERN CALIFORNIA FEDERAL

LEASE

3
WELL NO.

1980' FSL & 1980' FWL
FOOTAGE LOCATION

SEC-29
SECTION

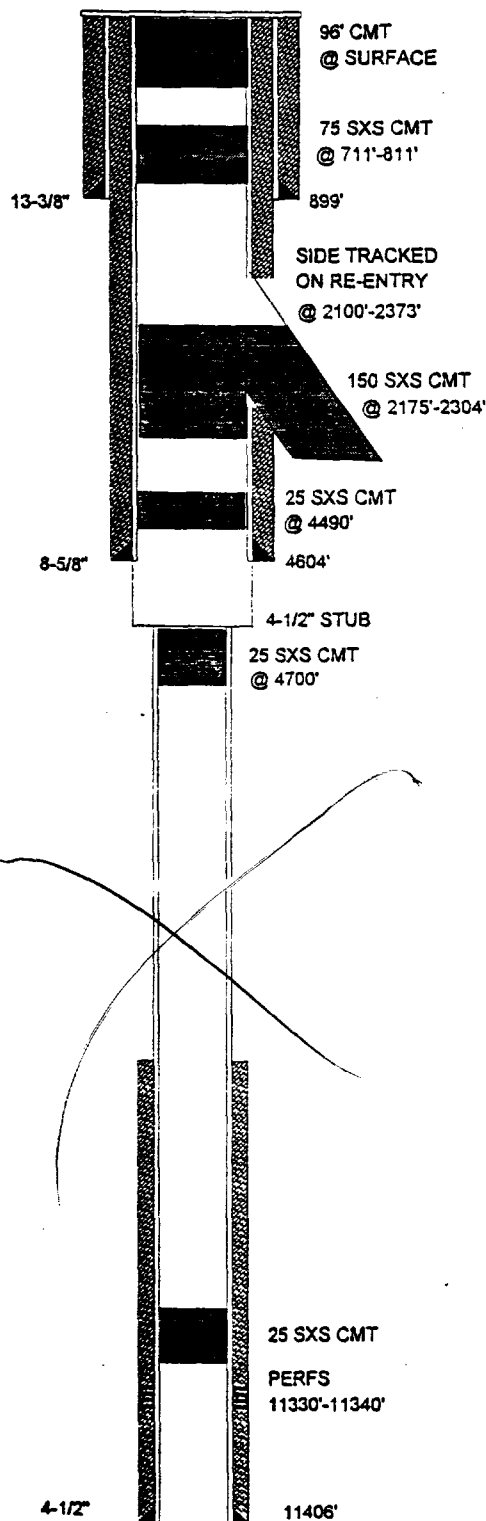
T-19-S
TOWNSHIP

R-32-E
RANGE

TYPE OF WELL: PLUGGED & ABANDONED

SPUD DATE: 10/24/63

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 600 **sx**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1700 **sx**
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 **sx**
 TOC: 10100 FEET DETERMINED BY: Temp. Survey
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 11406 FEET

5. PERFORATIONS

11330 FEET TO: 11340 FEET
 (PERFORATED OR OPEN HOLE; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
 DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

NEW MEXICO "DH" STATE

OPERATOR

LEASE

1-Y

380' FNL & 330' FEL

SEC-32

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

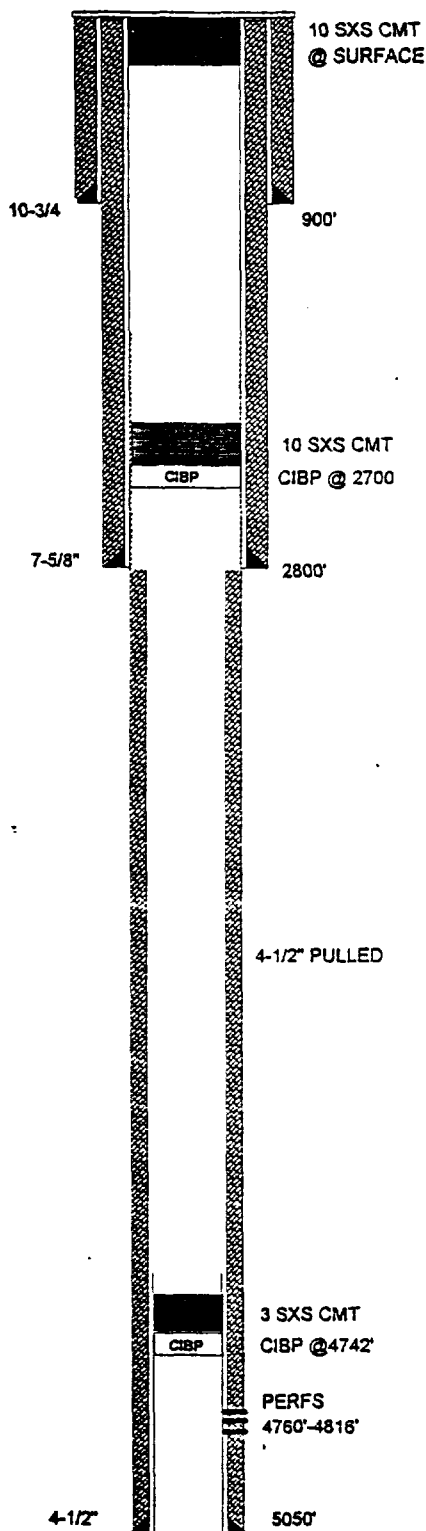
TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

3/12/71

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 680 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 7-5/8 INCHES CEMENTED WITH: 350 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 154 sx

TOC: 4400 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 5050 FEET

5. PERFORATIONS

4760 FEET TO: 4816 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

NEW MEXICO "DH" STATE

OPERATOR

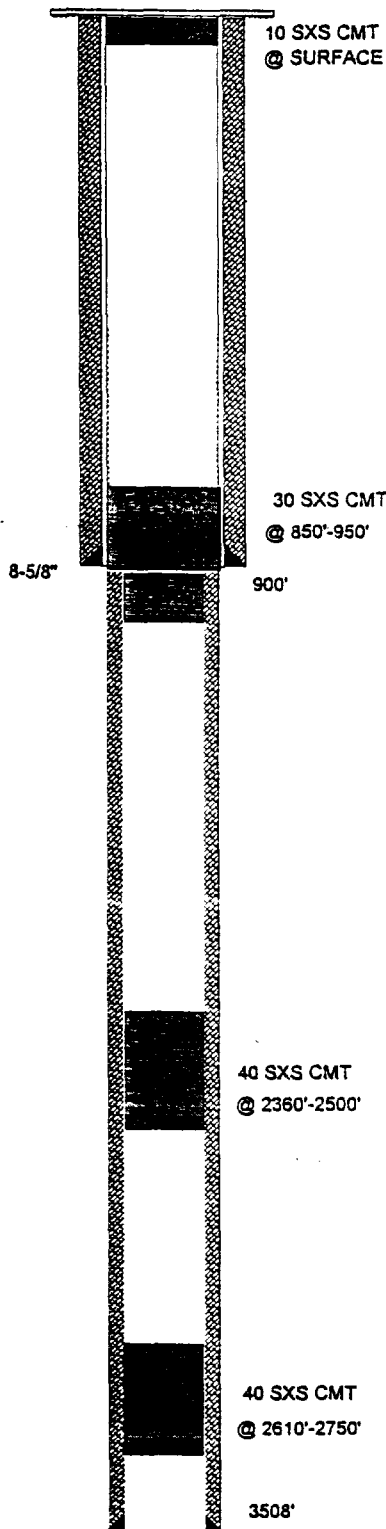
LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	330' FNL & 330' FEL	SEC-32	T-19-S	R-32-E

TYPE OF WELL: PLUGGED & ABANDONEDSPUD DATE: 2/25/71

SCHEMATIC

TABULAR DATA



1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 530 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 3508 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. N/A

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

FORAN "NF" SATE

OPERATOR

LEASE

1
WELL NO.

330' FNL & 1980' FEL
FOOTAGE LOCATION

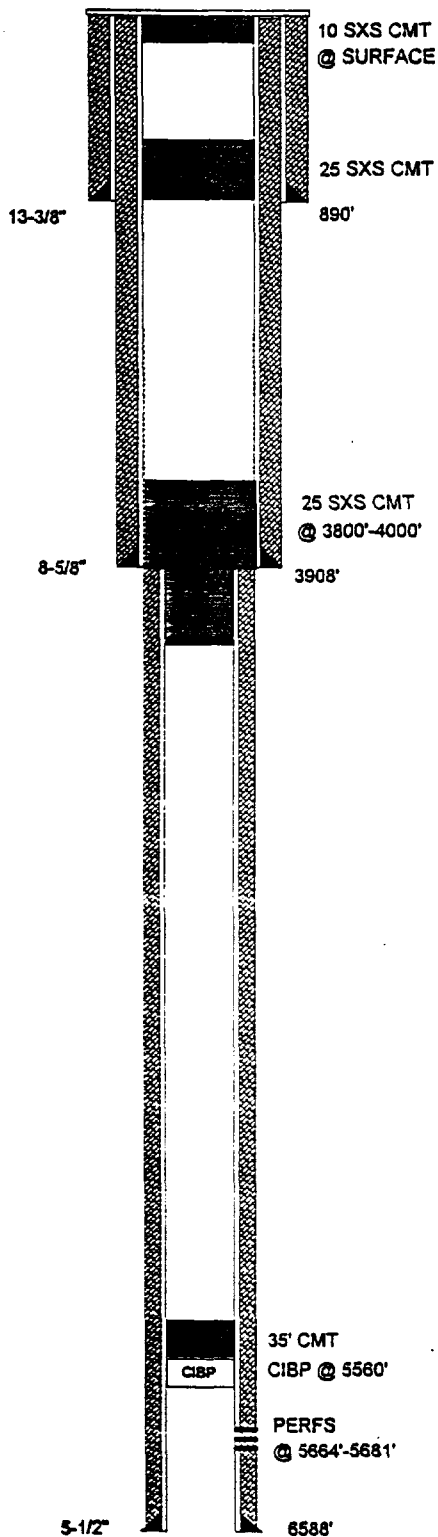
SEC-32
SECTION

T-19-S
TOWNSHIP

R-32-E
RANGE

TYPE OF WELL: PLUGGED & ABANDONEDSPUD DATE: 12/16/87

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 760 sxTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-7/8 INCHES CEMENTED WITH: 1555 sxTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 545 sxTOC: 4300 FEET DETERMINED BY: Temp. SurveyHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 6588 FEET

5. PERFORATIONS

5664 FEET TO: 5681 FEET
(PERFORATED OR OPEN HOLE; INDICATE WHICH)
PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?
LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. N/A

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

PAN AMERICAN PET. CORP.

PLAINS UNIT

OPERATOR

LEASE

3

1980' FSL & 660' FWL

SEC-28

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PLUGGED & ABANDONED

SPUD DATE:

7/6/63

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

4. TOTAL DEPTH: 4111 FEET

5. PERFORATIONS

N/A FEET TO: N/A FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

PERFORATED"

6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)?

LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE

ON JULY 28, 1963 WHILE DRILLING AT 4111', 15 DRILL COLLARS BECAME STUCK. IN
SUBSEQUENT FISHING OPERATIONS THREE COLLARS WERE RECOVERED LEAVING
12 COLLARS IN THE HOLE. TOP OF FISH TO 3535'. AFTER FISHING FOR SEVEN DAYS,
A CEMENT PLUS WAS SET FROM TOP OF FISH TO 3300'. DRILLING WAS
COMMENCED IN AN UNDETERMINED DIRECTION TO BY-PASS THE JUNK IN HOLE.
AFTER UNABLE TO GET WHIPSTOCK TO BOTTOM. ON 8-12-63 WHILE MAKING A TRIP
AFTER DRILLING THE SIDE TRACK HOLE TO DEPTH OF 4005', THE DRILL PIPE STUCK
ONCE AGAIN. TOP OF FISH AT 3687' AFTER FISHING FOR TWO DAYS ABANDON THE
HOLE AND MOVED LOCATION. LEFT THREE DRILL COLLARS, JARS AND BIT IN HOLE.
ABANDONED BY SPOTTING 300 SXS CMT PLUG @ 3093'-3350' ; 110 SXS @ 743'-943' ;
AND 10 SXS CMT @ SURFACE.

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

RAY WESTALL OPERATING CORP.

LUSK "16" STATE

OPERATOR

LEASE

1

660' FSL & 660' FWL

SEC-16

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

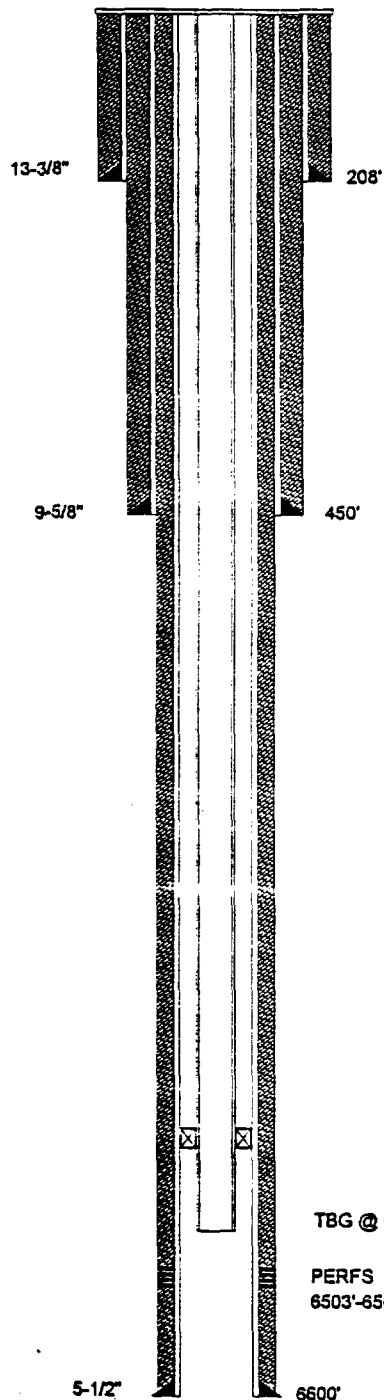
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/9/62

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 125 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 500 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 3475 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6600 FEET

5. PERFORATIONS

6503 FEET TO: 6509 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

Parker & Parsley
Development L.P.

LUSK DEEP UNIT "A"

OPERATOR

LEASE

19

330' FNL & 1656' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

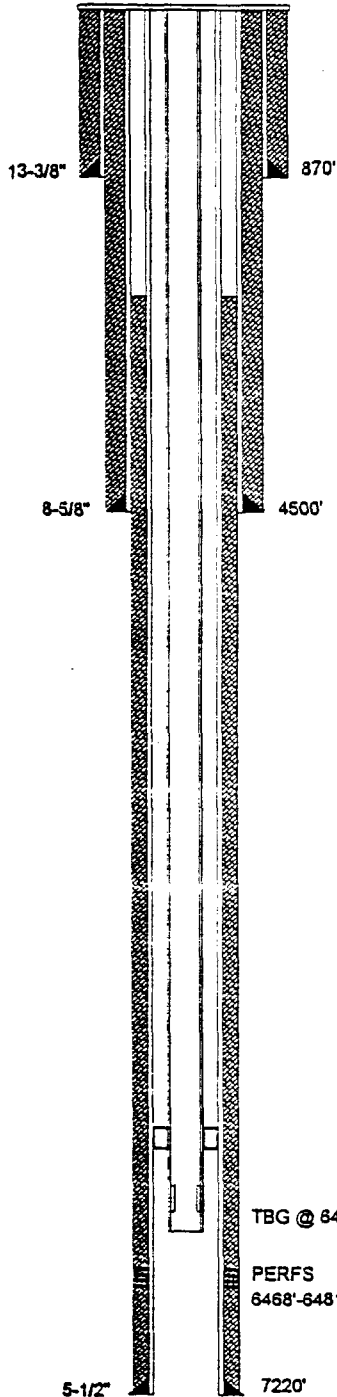
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

1/26/90

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 3230 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 900 SX

TOC: 1630 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6481 FEET
(PERFORATED OR OPEN HOLE; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

3

2310' FSL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

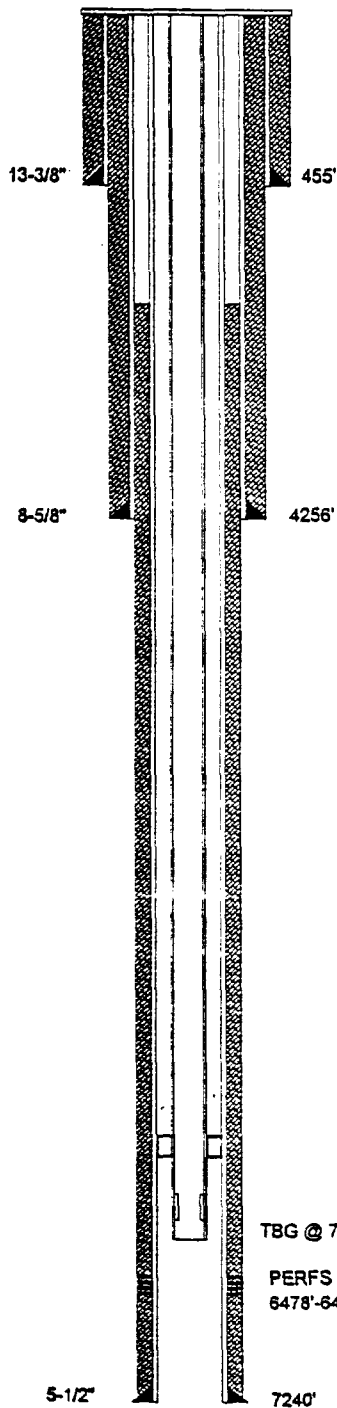
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

10/25/89

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1090 SX

TOC: 150 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1000 SX

TOC: 3240 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7240 FEET

5. PERFORATIONS

6478 FEET TO: 6485 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108

SECTION VI

APPLICATION FOR AUTHORIZATION

TO INJECT

Parker & Parsley

Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

OPERATOR

PLAINS UNIT

LEASE

2

1980' FNL & 660' FWL

SEC-28

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

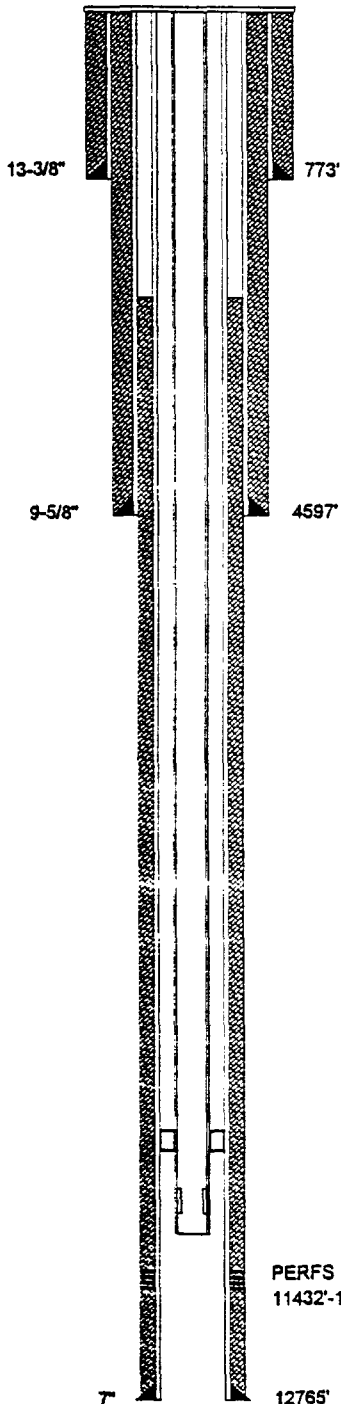
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/19/63

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 4250 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 7 INCHES CEMENTED WITH: 750 **SX**

TOC: 4490 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12996 FEET

5. PERFORATIONS

11432 FEET TO: 12530 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

PLAINS UNIT FEDERAL

OPERATOR

LEASE

3-Y
WELL NO.1980' FSL & 760' FWL
FOOTAGE LOCATIONSEC-28
SECTIONT-19-S
TOWNSHIPR-32-E
RANGE

TYPE OF WELL: PRODUCING OIL AND GAS WELL

SPUD DATE: 12/4/81

TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 7 INCHES CEMENTED WITH: 250 SX

TOC: 8796 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 8-1/2 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 250 SX

TOC: 10714 FEET DETERMINED BY: Calculated

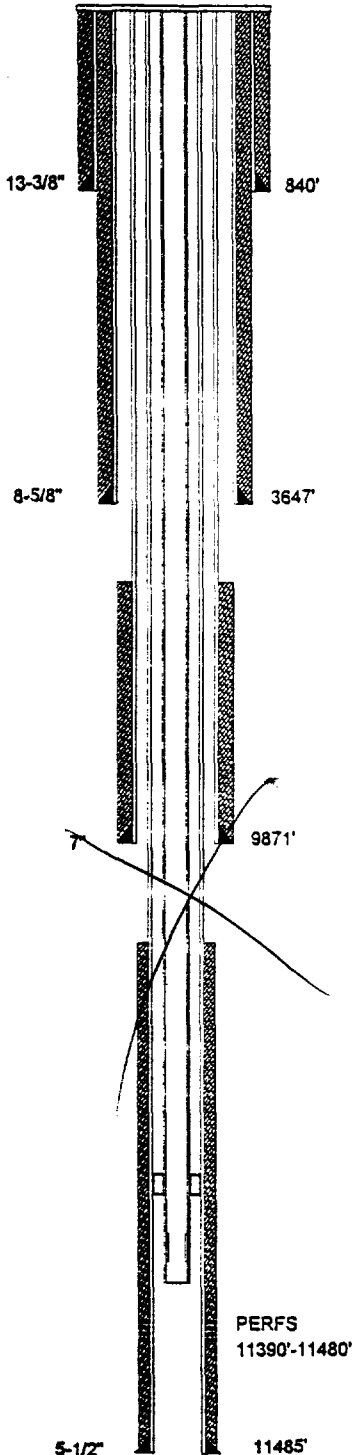
HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11485 FEET

6. PERFORATIONS

11390 FEET TO: 11480 FEET
(PERFORATED OR OPEN HOLE; INDICATE WHICH)
"PERFORATED"FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

SCHEMATIC



SHACKELFORD OIL

PLAINS FEDERAL

OPERATOR

LEASE

4 - X

710' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

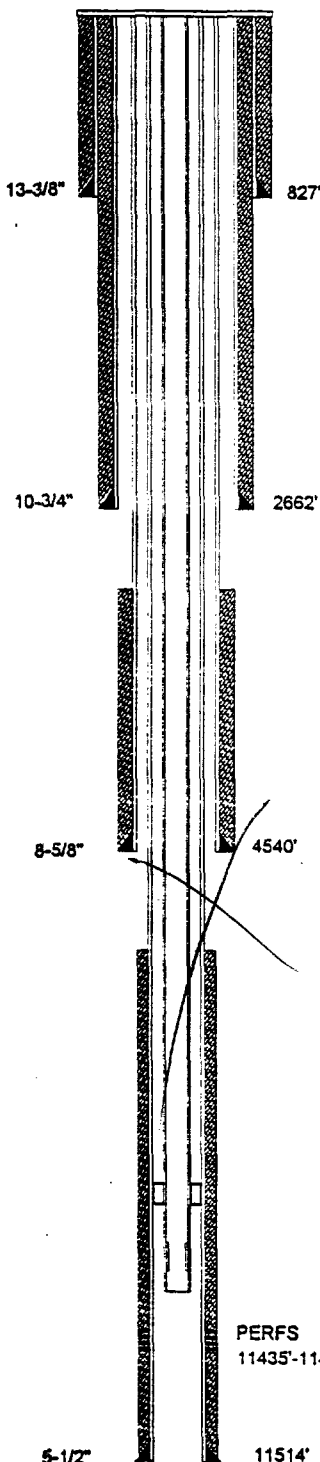
PRODUCING OIL AND GAS WELL

SPUD DATE:

1/4/64

TABULAR DATA

SCHEMATIC



1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 250 SX

TOC: 3500 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 9-7/8 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 SX

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11514 FEET

6. PERFORATIONS

11435 FEET TO: 11479 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

PLAINS UNIT

OPERATOR

LEASE

6

1980' FSL & 660' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

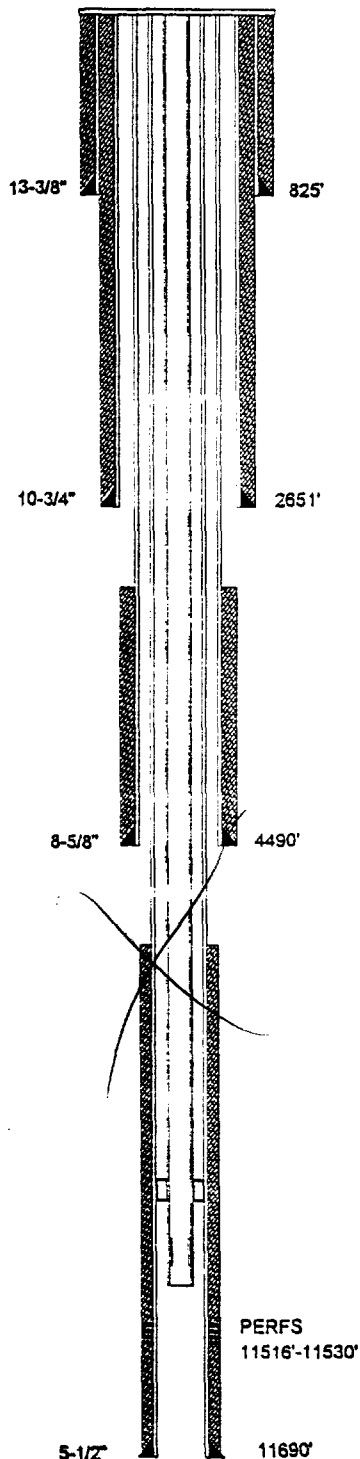
PRODUCING OIL AND GAS WELL

SPUD DATE:

7/10/96

TABULAR DATA

SCHEMATIC



1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 750 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 10-3/4 INCHES CEMENTED WITH: 700 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 275 SX

TOC: 3335 FEET DETERMINED BY: Calculated

HOLE SIZE: 11 INCHES

4. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 200 SX

TOC: 10714 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

5. TOTAL DEPTH: 11690 FEET

6. PERFORATIONS

11516 FEET TO: 11530 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI
 APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL
 TABULATION OF WELL DATA

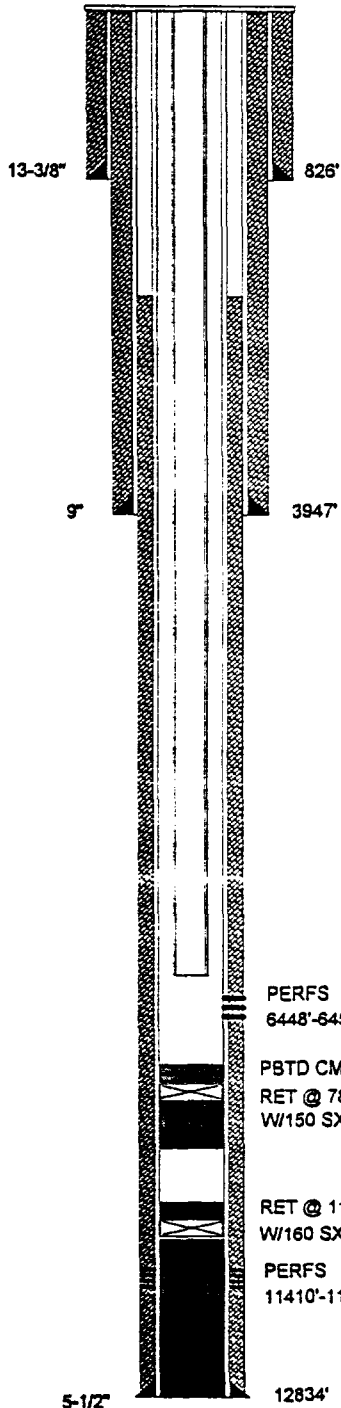
WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR	LEASE			
1	1980' FNL & 660' FEL	SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 3/23/62		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 950 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9 INCHES CEMENTED WITH: 2725 SX
 TOC: Surface FEET DETERMINED BY: Circulated
 HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 2140 SX
 TOC: 2450 FEET DETERMINED BY: est. top of cmt sqz.
 HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 12834 FEET

5. PERFORATIONS

6448 FEET TO: 6458 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

5

1980' FSL & 1980' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

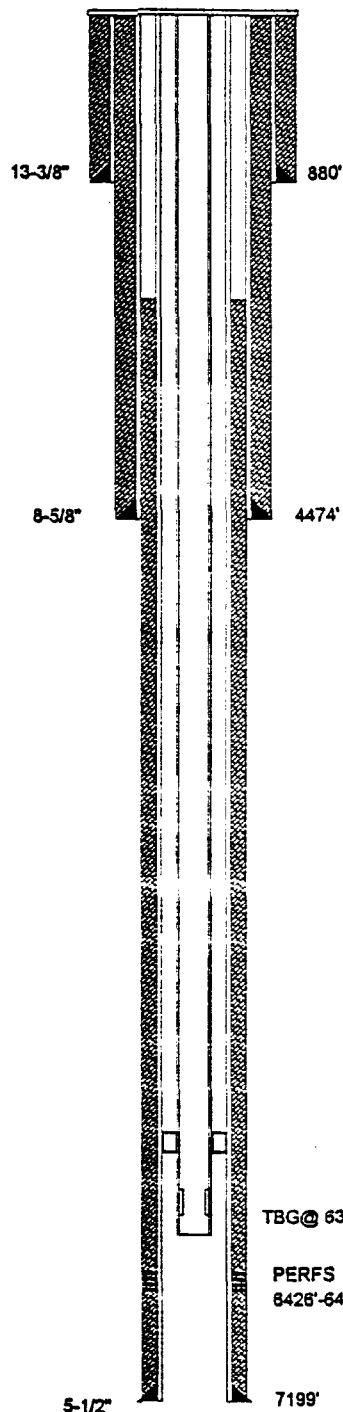
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

12/5/87

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 **sx**TOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 **sx**TOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 800 **sx**TOC: 4210 FEET DETERMINED BY: Cmt Bond LogHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6426 FEET TO: 6444 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

7

2210' FNL & 2260' FWL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

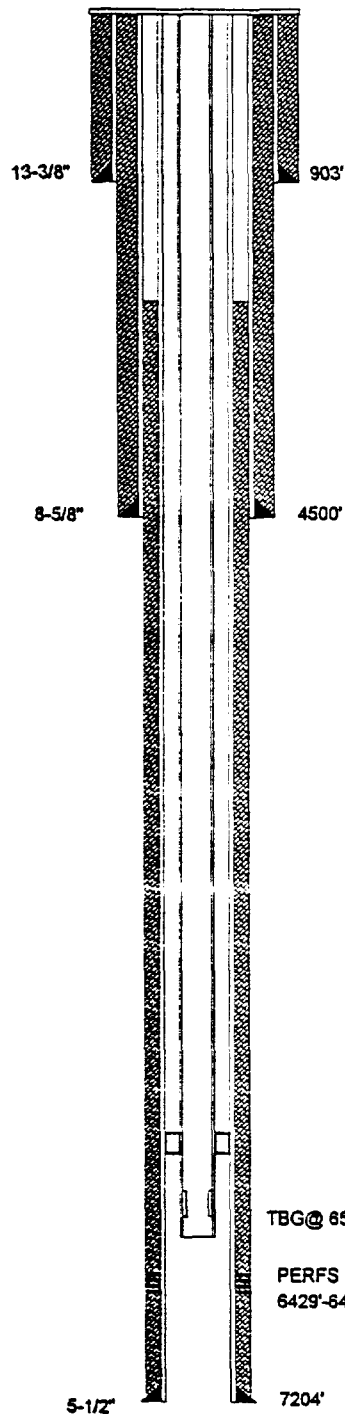
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

3/24/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 735 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2450 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 4000 FEET DETERMINED BY: Cmt Bond Log

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7204 FEET

5. PERFORATIONS

6429 FEET TO: 6442 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

9

660' FWL & 1980' FSL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

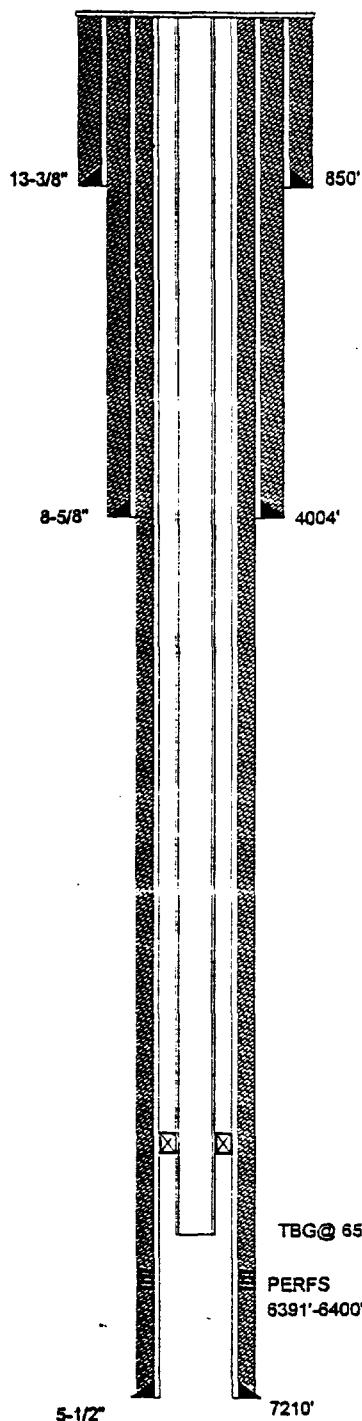
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

7/21/96

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7210 FEET

5. PERFORATIONS

6391 FEET TO: 6400 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

TEXACO INC.

FEDERAL USA "J"

OPERATOR

LEASE

1

990' FSL & 660' FEL

SEC-30

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

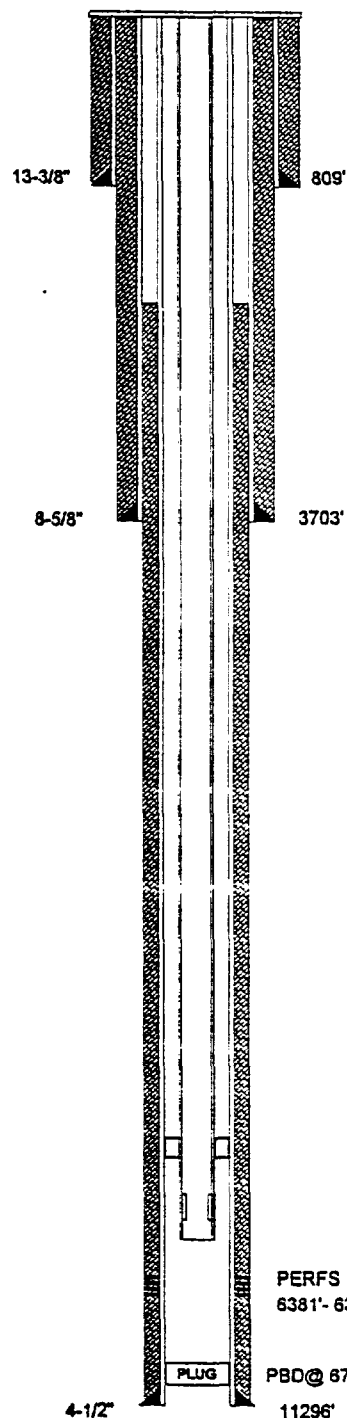
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

8/17/87

SCHEMATIC



OLD PERFS 11204'-11252'

TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 300 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1810 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 600 SXTOC: 2780 FEET DETERMINED BY: CalculatedHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 11300 FEET

5. PERFORATIONS

6381 FEET TO: 6386 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

TEXACO INC.

FEDERAL USA "I"

OPERATOR

LEASE

1

660' FNL & 660' FEL

SEC-31

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

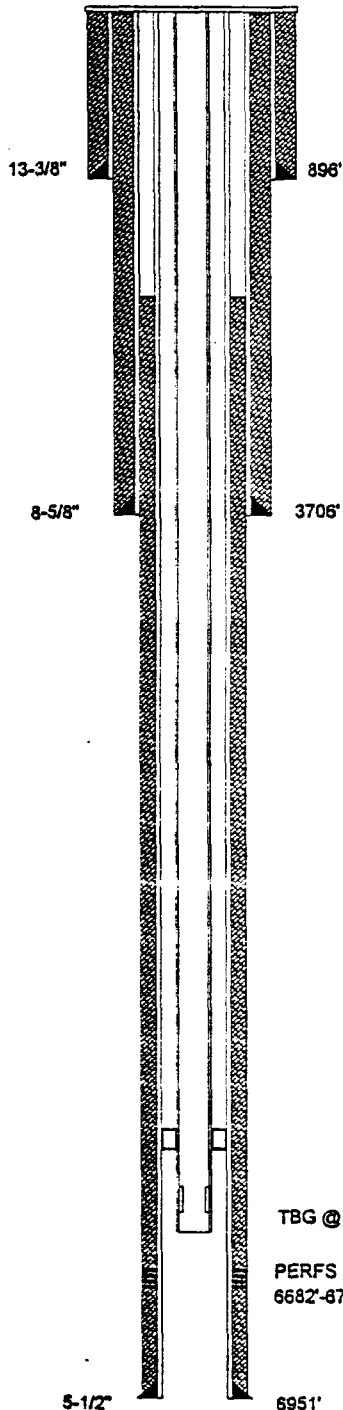
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

4/26/64

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 350 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 400 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1600 SXTOC: 2780 FEET DETERMINED BY: CalculatedHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 6981 FEET

5. PERFORATIONS

6682 FEET TO: 6727 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

TBG @ 6472'

PERFS
6682'-6727'

6951'

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

TEXACO INC.

FEDERAL USA "J"

OPERATOR

LEASE

2

660' FSL & 385' FEL

SEC-30

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

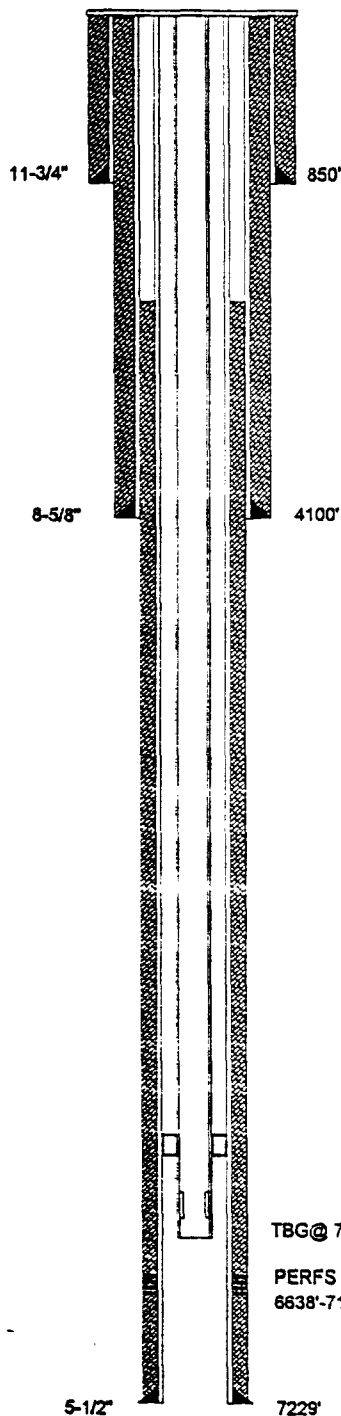
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

7/3/93

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 560 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2655 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 900 SX

TOC: 3420 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7229 FEET

5. PERFORATIONS

6638 FEET TO: 7102 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

TEXACO INC.

FEDERAL USA "J"

OPERATOR

LEASE

3

1980' FSL & 330' FEL

SEC-30

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

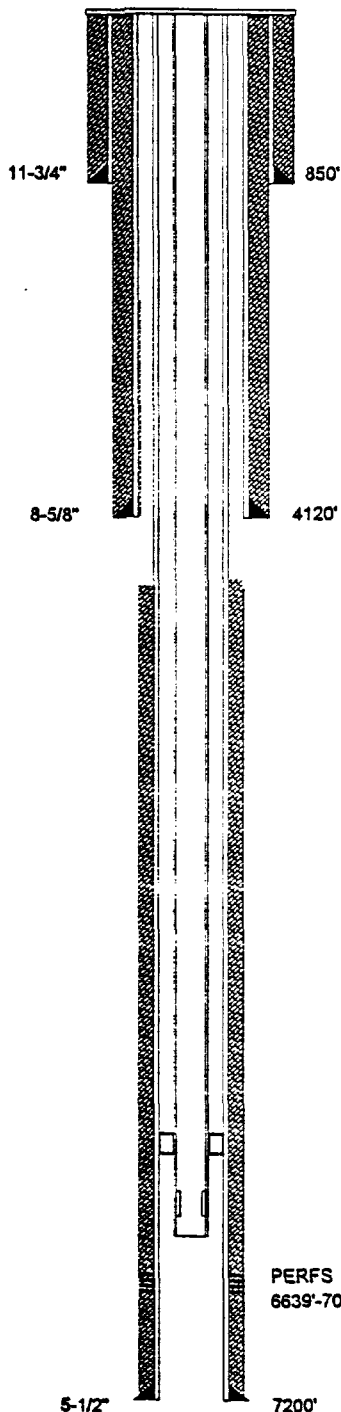
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

6/26/94

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 650 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 2075 **SX**

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 450 **SX**

TOC: 5310 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6639 FEET TO: 7088 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

TEXACO INC.

NEW MEXICO "CR" STATE

OPERATOR

LEASE

1

660' FNL & 660' FWL

SEC-32

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

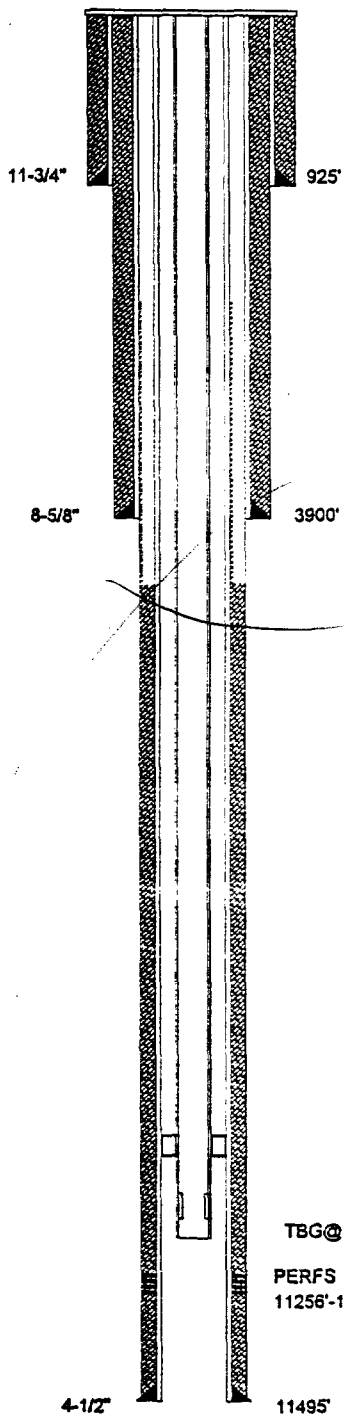
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

7/3/90

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 600 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 600 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 SXTOC: 6400 FEET DETERMINED BY: Calculated

Cmt Sqz Perfs & Leaks

HOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 11500 FEET

5. PERFORATIONS

11256 FEET TO: 11304 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

TBG @ 9400'

PERFS
11256'-11304'

11495'

*OK pursuant to
Division
Well file*

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

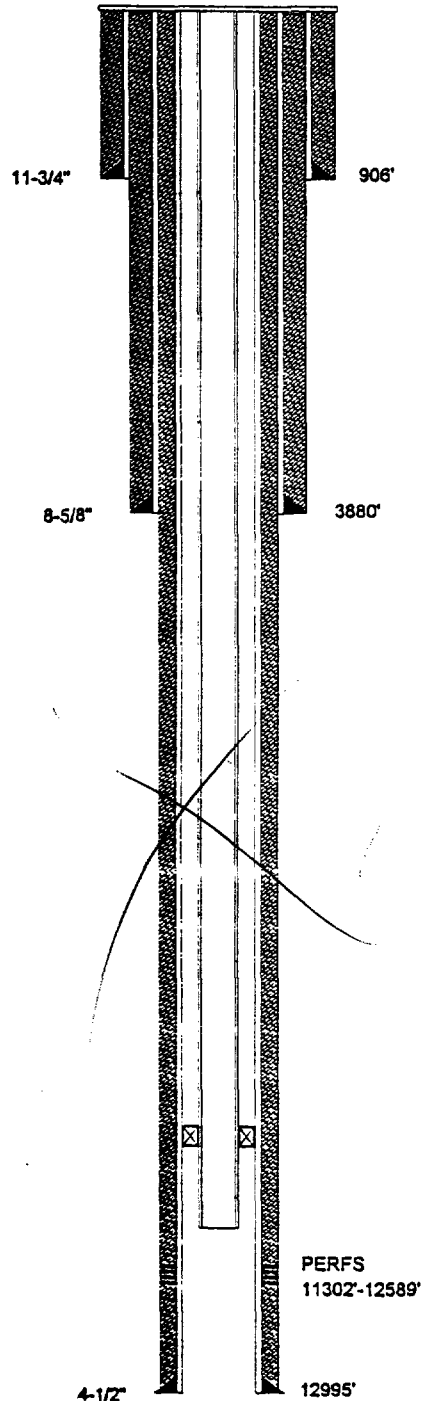
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

TEXACO-CITIES SERVICE COM.

OPERATOR		LEASE		
1	1980' FNL & 1980 FWL	SEC-32	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 5/8/64		

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 11-3/4 INCHES CEMENTED WITH: 700 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 750 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 4-1/2 INCHES CEMENTED WITH: 2500 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 13000 FEET

5. PERFORATIONS

11302 FEET TO: 12589 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR

LEASE

13

660' FSL & 660' FEL

SEC-29

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

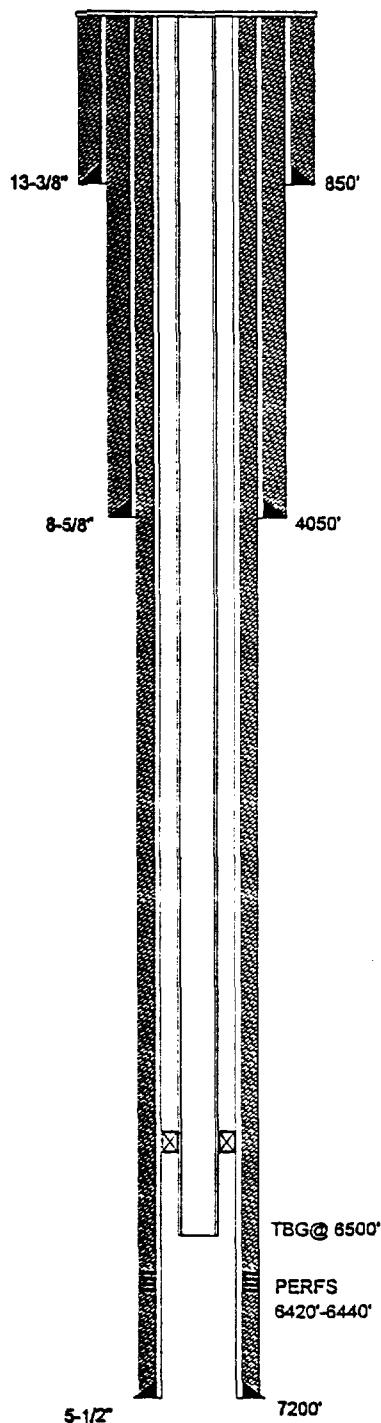
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

1997

SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1530 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6420 FEET TO: 6440 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

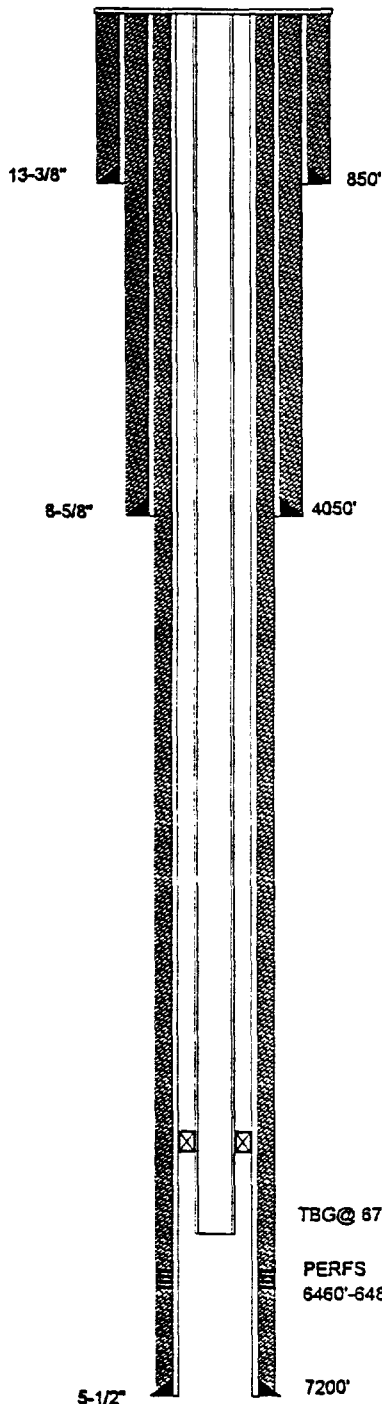
OPERATOR

LEASE

21	990' FSL & 660' FEL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

TYPE OF WELL:	PRODUCING OIL AND GAS WELL	SPUD DATE:	1997
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SCHEMATIC



TABULAR DATA

1. SUFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1530 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6460 FEET TO: 6480 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

**FORM C-108
SECTION VI**

**APPLICATION FOR AUTHORIZATION
TO INJECT**

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

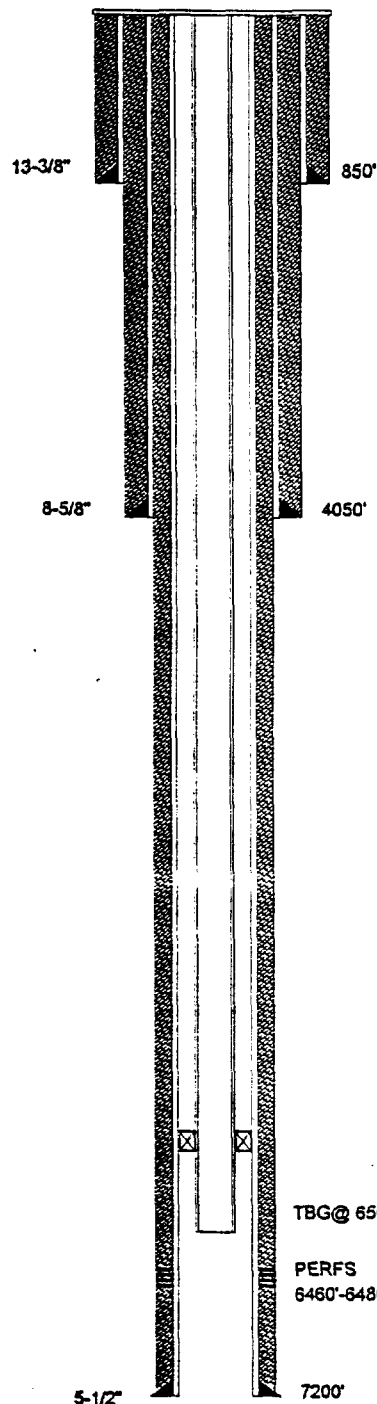
TABULATION OF WELL DATA

**Parker & Parsley
Development L.P.**

LUSK DEEP "A"

OPERATOR		LEASE		
22	1650' FNL & 1640' FWL	SEC-20	T-19-S	R-32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPE OF WELL: PRODUCING OIL AND GAS WELL		SPUD DATE: 1997		

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 675 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 1530 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200 FEET

5. PERFORATIONS

6460 FEET TO: 6480 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

**Parker & Parsley
Development L.P.**

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

Parker & Parsley
Development L.P.

LUSK DEEP UNIT "A"

OPERATOR

LEASE

4

1980' FSL & 1980' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL: PRODUCING OIL AND GAS WELL

SPUD DATE: 10/5/62 RE-ENTRY 3/13/88

TABULAR DATA

SCHEMATIC

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1180 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 9-5/8 INCHES CEMENTED WITH: 2365 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

NOTE: 6/88 CUT AND PULLED 7185' OF 4-1/2 CSG

SIZE: 4-1/2 INCHES CEMENTED WITH: 300 SX

TOC: 10000 FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. PRODUCTION STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 500 SX

TOC: 5595 FEET DETERMINED BY: Calculated

HOLE SIZE: 7-7/8 INCHES

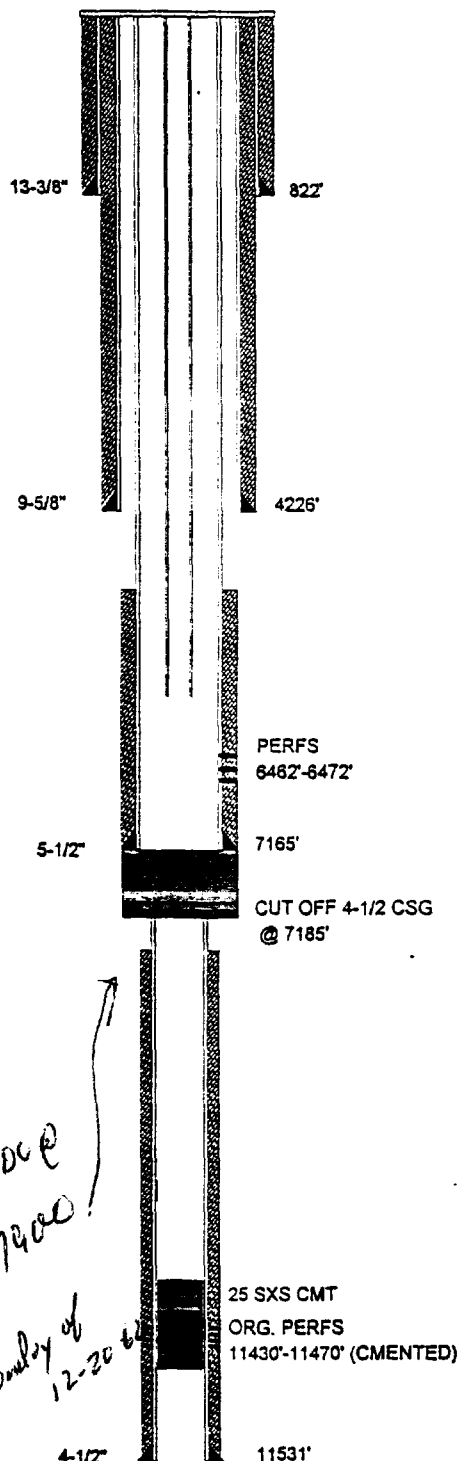
5. TOTAL DEPTH: 11531 FEET

6. PERFORATIONS

6462 FEET TO: 6472 FEET
(PERFORATED OR OPEN HOLE ; INDICATE WHICH)
"PERFORATED"

FORM C-108

SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.WATER INJECTION WELL
TABULATION OF WELL DATA

Parker & Parsley
Development L.P.

LUSK DEEP "A"

OPERATOR

LEASE

15

1651' FNL & 330' FEL

SEC-20

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

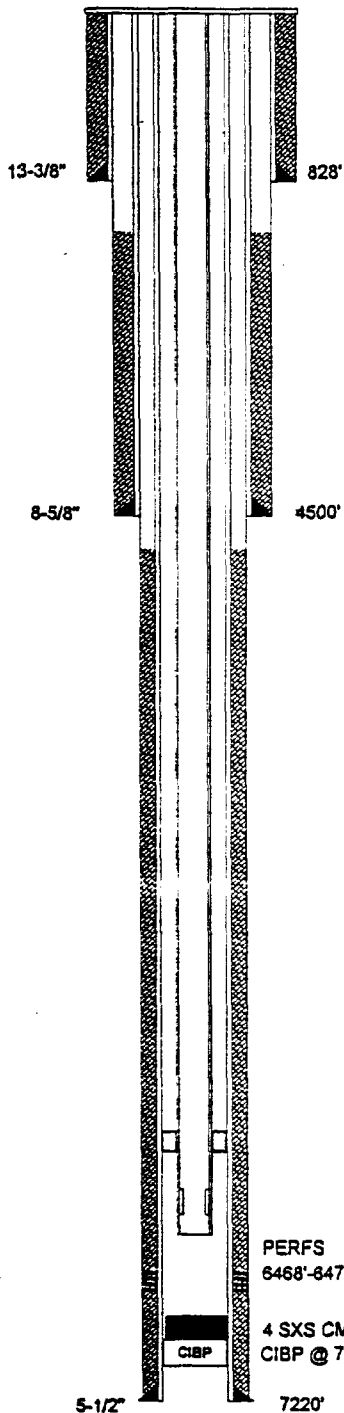
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

11/22/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 1000 SX

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 700 SX

TOC: 2370 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 600 SX

TOC: 4690 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220 FEET

5. PERFORATIONS

6468 FEET TO: 6478 FEET
(PERFORATED OR OPEN HOLE; INDICATE WHICH)
"PERFORATED"

FORM C-108
SECTION VI

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

MOBIL FEDERAL

OPERATOR

LEASE

2

1650' FNL & 1650' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

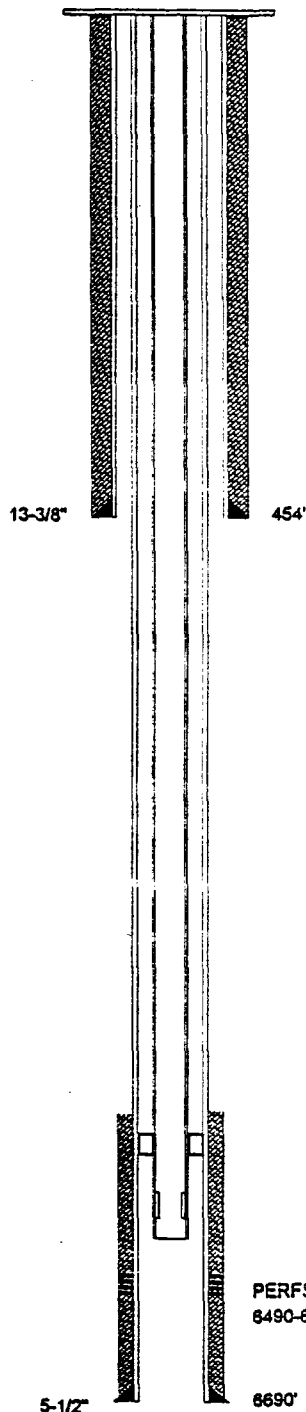
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

8/30/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 165 SXTOC: 5997 FEET DETERMINED BY: CalculationHOLE SIZE: 11 & 7-7/8 INCHES4. TOTAL DEPTH: 6690 FEET

5. PERFORATIONS

6490 FEET TO: 6495 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

SHACKELFORD OIL

LYNCH

OPERATOR

LEASE

3

678' FSL & 1992' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

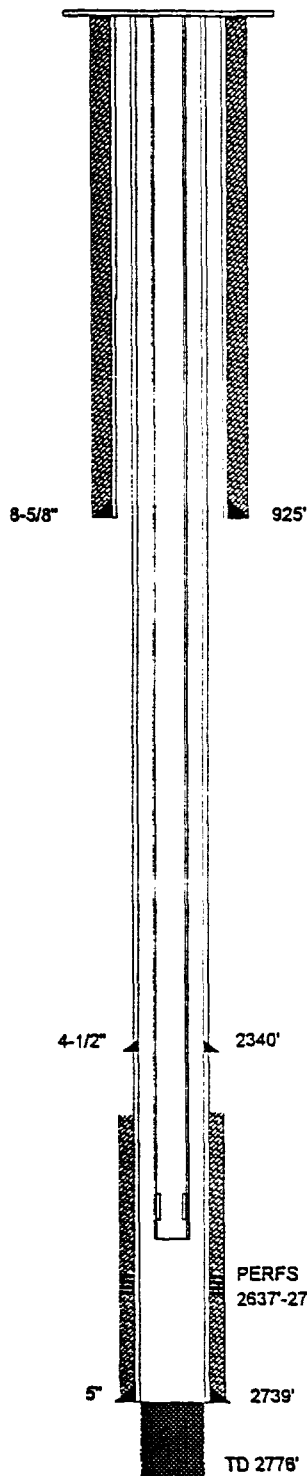
RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE: 11-14-42 RE-ENTRY 10-6-95

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A sx

TOC: N/A FEET DETERMINED BY: N/A

HOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 4-1/2 & 5-1/2 INCHES CEMENTED WITH: 50 sx

TOC: 2400 FEET DETERMINED BY: Calculation

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 2776 FEET

5. PERFORATIONS

2637 FEET TO: 2737 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
 SECTION VI

APPLICATION FOR AUTHORIZATION
 TO INJECT

Parker & Parsley
 Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

BOWMAN

OPERATOR

LEASE

2

660' FNL & 1980' FWL

SEC-28

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

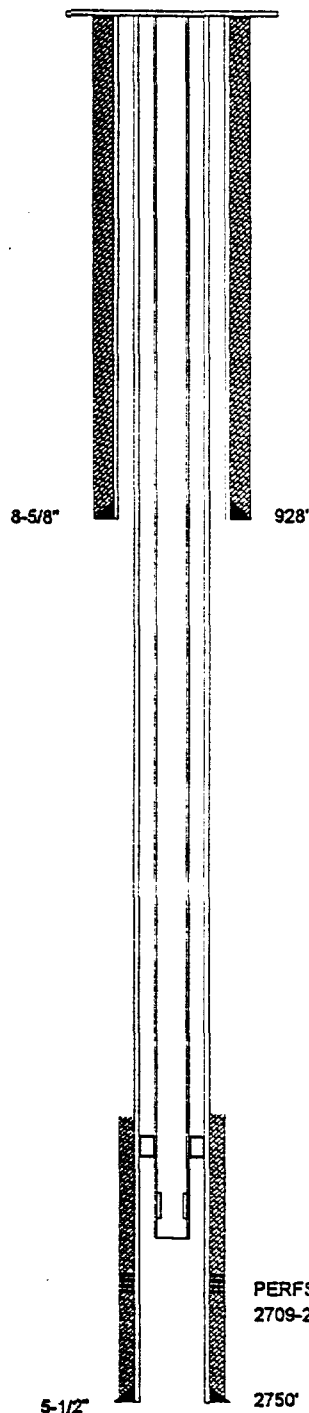
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

9/30/42

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 8-5/8 INCHES CEMENTED WITH: 50 SXTOC: Surface FEET DETERMINED BY: CirculatedHOLE SIZE: 11 INCHES

2. INTERMEDIATE CASING

SIZE: N/A INCHES CEMENTED WITH: N/A SXTOC: N/A FEET DETERMINED BY: N/AHOLE SIZE: N/A INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 50 SXTOC: 2540 FEET DETERMINED BY: CalculatedHOLE SIZE: 7-7/8 INCHES4. TOTAL DEPTH: 2771 FEET

5. PERFORATIONS

2709 FEET TO: 2750 FEET
 (PERFORATED OR OPEN HOLE ; INDICATE WHICH)
 "PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

WELL DATA SHEET

SHACKELFORD OIL

AMOCO FEDERAL

OPERATOR

LEASE

1

660' FNL & 330' FWL

SEC-21

T-19-S

R-32-E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

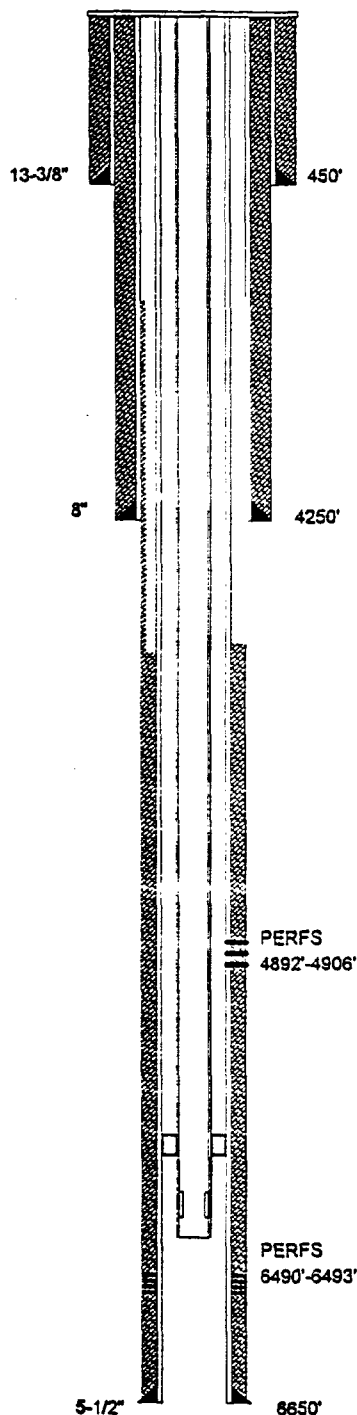
TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE:

9/23/88

SCHEMATIC



TABULAR DATA

1. SURFACE CASING

SIZE: 13-3/8 INCHES CEMENTED WITH: 475 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 17-1/2 INCHES

2. INTERMEDIATE CASING

SIZE: 8 INCHES CEMENTED WITH: 2150 sx

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 11 INCHES

3. LONG STRING

SIZE: 5-1/2 INCHES CEMENTED WITH: 525 sx

TOC: 4550 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 6650 FEET

5. PERFORATIONS

6490 FEET TO: 6493 FEET

(PERFORATED OR OPEN HOLE ; INDICATE WHICH)

"PERFORATED"

FORM C-108
SECTION VIAPPLICATION FOR AUTHORIZATION
TO INJECTParker & Parsley
Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

DATA SHEET ON PROPOSED OPERATIONS

SECTION VII

FORM C-108

SECTION VII

- 1) Proposed Average Daily Injection Rate - 4500 BWPD
Proposed Maximum Daily Injection Rate - 6000 BWPD
- 2) This will be a closed system
- 3) Estimated Average Injection Pressure - 1300 psi
Estimated Maximum Injection Pressure - 1800 psi
- 4) See attached letter and chemical analysis
- 5) Does not apply.



P.O. BOX 2167
HOBBS, NEW MEXICO 88240

Telephone (505) 393-7728

December 10, 1996

Parker & Parsley
P.O. Box 3178
Midland, Tx. 79702

Attn: Britt Hirth

Dear Mr. Hirth,

According to reports, Parker & Parsley is planning to inject water at the Lusk West Delaware lease. Water from the Seven Rivers formation is going to be commingled with the Delaware water. When mixed these two waters show to have a Calcium Sulfate scaling tendency, thus making these two water incompatible.

Champion Technologies is recommending a scale inhibitor be injected continuously into the commingled injection water at a treating rate of 15 to 25 ppm. This treatment will inhibit the Calcium Sulfate scale from depositing in the injection wells and improve the quality of the injection water to acceptable levels. Compatibility tests with scale inhibitors and the injection water should be performed before a scale inhibitor is put in place.

If you have any questions please contact me in the Hobbs office.

Regards,

Kenny Kearney
Kenny Kearney

FORM C-108
SECTION VII
ITEM #4

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

Waylan C. Martin, M.A.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. David Shrauner
P O Drawer E, Kermit, TX 79745

LABORATORY NO. 896140
SAMPLE RECEIVED 8-19-96
RESULTS REPORTED 8-21-96

COMPANY Parker & Parslev LEASE As listed

FIELD OR POOL _____ Lusk

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO.1 Supply water - taken from Lusk Deep #7.

NO.2 Produced water - taken from Southern California #5.

NO. 3 Produced water - taken from Southern California #7.

NO 4

REMARKS: 2. 6,400' 3. 4,700'

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0323	1.1784	1.1721	
pH When Sampled				
pH When Received	5.80	6.31	6.41	
Bicarbonate as HCO ₃	488	51	54	
Supersaturation as CaCO ₃	---	6	4	
Undersaturation as CaCO ₃	10	---	---	
Total Hardness as CaCO ₃	8,800	87,000	78,000	
Calcium as Ca	2,520	29,600	28,000	
Magnesium as Mg	608	3,159	1,944	
Sodium and/or Potassium	12,226	67,015	70,258	
Sulfate as SO ₄	3,785	313	362	
Chloride as Cl	22,016	164,764	163,344	
Iron as Fe	60.8	2.4	5.2	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	41,643	264,902	263,962	
Temperature °F.				
Carbon Dioxide, Calculated	1,269	42	35	
Dissolved Oxygen.				
Hydrogen Sulfide	74.0	0.0	0.0	
Resistivity, ohms/m at 77° F.	0.200	0.0	0.0	
Suspended Oil	0.200	0.049	0.050	
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	None	None	None	
Calcium Sulfate Scaling Tendency	Moderate	None	None	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Form No. 3

FORM C-108
SECTION VII
ITEM #4

By

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. David Shrauner
P O Drawer E, Kermit, TX 79745

LABORATORY NO. 896140 (Page 2)
SAMPLE RECEIVED 8-19-96
RESULTS REPORTED 8-21-96

COMPANY Parker & Parsley LEASE As listed
FIELD OR POOL Lusk
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

- | | |
|-------|---|
| NO. 1 | <u>Composite Southern California water (equal mix of well #5 & well #7).</u> |
| NO. 2 | <u>Hypothetical combination of 25% Lusk #7 & 75% composite Southern California.</u> |
| NO. 3 | <u>Hypothetical combination of 50% Lusk #7 & 50% composite Southern California.</u> |
| NO. 4 | <u>Hypothetical combination of 75% Lusk #7 & 25% composite Southern California.</u> |

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1753			
pH When Sampled				
pH When Received	6.36			
Bicarbonate as HCO ₃	53			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	82,500			
Calcium as Ca	28,800	22,230	15,660	9,090
Magnesium as Mg	2,552			
Sodium and/or Potassium	68,637			
Sulfate as SO ₄	338	1,200	2,062	2,923
Chloride as Cl	164,054	128,545	93,035	57,526
Iron as Fe	3.8			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	264,432			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen.				
Hydrogen Sulfide	0.0			
Resistivity, ohms/cm at 77° F.	0.050			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Sulfate Scaling Tendency	None	Mild	Moderate	Severe
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks Letter of recommendation attached.				

Form No. 3

FORM C-108
SECTION VII
ITEM #4

84

Waylan C. Martin, M.A.

P. O. BOX 1468
MONAHAN, TEXAS 79756
(915) 943-3234 or 563-1040

Martin Water Laboratories, Inc.
WATER CONSULTANTS SINCE 1953
BACTERIAL AND CHEMICAL ANALYSES

709 W. INDIANA
MIDLAND, TEXAS 79701
(915) 683-4521

August 21, 1996

Mr. David Shrauner
Parker & Parsley
P.O. Drawer "E"
Kermit, TX 79745

Subject: Recommendations relative to laboratory #896140 (8-21-96), Lusk Deep #7 and Southern California #5 and #7.

Dear Mr. Shrauner:

The objective herein is to evaluate compatibility between the waters from Lusk Deep #7 and both Southern California #5 and #7. A careful study in this regard has revealed the following:

1. We have made hypothetical combinations of these waters and find that essentially any mixture of these waters would be expected to result in a calcium sulfate scaling potential. However, as the proportion of the water from Lusk Deep #7 increases, we find a proportionate increase in calcium sulfate scaling potential. The most severe scaling potential resulted when we combined 75 percent of the water from Lusk Deep #7 with the other two waters.
2. The results reveal the presence of a slight amount of iron in both of the Southern California wells and hydrogen sulfide in Lusk Deep #7. This evidence indicates iron sulfide precipitation can be expected on the mixing of these waters. It should be understood that we would anticipate variations in the iron content in Southern California #5 and #7 and therefore variations in the amount of iron sulfide that would precipitate when mixed with Lusk Deep #7.
3. This study has revealed no evidence of any other potential incompatibility.

Based on the evidence revealed in this study, we would conclude that these waters are not compatible, and we would recommend the waters not be mixed on the surface nor should Lusk Deep #7 be injected into the zone represented by the Southern California wells.

Yours very truly,



Waylan C. Martin

WCM/mo

FORM C-108
SECTION VII
ITEM #4

GEOLOGICAL DATA SHEET

SECTION VIII

FORM C-108 SECTION VIII

Geological Summary

The Lusk West Delaware field is located in Lea county, New Mexico in TWN 19S RGE 32E. As of April 30, 1996 there were 31 (seven inactive) wells producing approximately 9,441 BBLS/Mo, 16,950 MCF/Mo and 13,480 BW/Mo. The field's current producing gas-oil ratio is at 1,795 SCF/BBL as of April 1996. Cumulative production as of April 1996 for the field is 2,106.3 MBBLS, 4,367.3 MMCF and 1,789.8 MBW. Production comes mainly from the 6400' zone in the Delaware Brushy Canyon. There are several other Delaware Brushy Canyon zones including the 4900' sand, 5500' sand, 6650' sand, 7050' sand and the 7200' sand. These zones have contributed about 587 MBBLS & 1,029.2 MMCF. The proposal is to only Waterflood the 6400' sand interval. The wells that contributed to the 6400' zone have produced about 1,519 MBBLS, 3,338.1 MMCF and 1,281 MBW.

The 6400' zone is a deep marine turbidite fan system that runs primarily north-south along the slope break. The sandstone body varies in thickness from 0 to 35+ feet. The sand averages about 22 feet thick. A mineralogic and Petrographic analysis was performed by Western Atlas's Core Laboratories on the Damson Oil Corp. Southern California Federal #7. The following is the results of their analysis.

The sandstone is described as a subarkosic feldspathic sandstone that is fairly well sorted, ranges from very angular to rounded, is mature in texture, is random in grain orientation and has point, floating, straight, concavo-convex grain contacts. The sandstone is primarily composed of monocrystalline quartz, potassium feldspar, dolomite rock fragments, plagioclase and polycrystalline quartz. There is no rock matrix present. The cement is common to abundant, is finely disseminated with fine crystalline dolomite and patches of anhydrite. There is an abundance of intergranular pores, uncommon grain-moldic pores, rare intergranular and very small pores associated with dolomite rock fragments and dolomite cements. No authigenic clays are present, there is no evidence of sedimentary structures, the pore network is very well interconnected and fractures are not present.

The 6400' Delaware sand exhibits both stratigraphic and structural trapping mechanisms and characteristics. The Lusk West field trends structurally down dip in the easterly direction. There are two visible structural high's setting up a nose in which the thickest portion of the sand body is present. There appears to be an oil-water contact at approximately -2,900' on the down dip side. The up dip extent of field is delineated by sandstone fans that thins in a westerly direction to zero. These fans appear separated by a tight clay rich margin that trends SE to NW across the southern half of Sec. 20.

INJECTION WELL STIMULATION PROGRAM

SECTION IX

FORM C-108

SECTION IX

There will be a small clean up acid job only for each injection well.

LOGGING AND TEST DATA

SECTION X

FORM C-108

SECTION X

Original logs previously submitted with C-102.

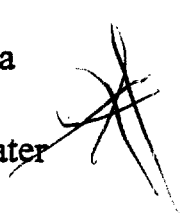
CHEMICAL ANALYSIS OF FRESH WATER

SECTION XI

FORM C-108

SECTION XI

There is no known beneficially used fresh water. Water from the Santa Rosa formation is not of sufficient supply and areal extent to justify drilling of water wells. Livestock is watered by private co-ops and pipeline.



AFFIRMATIVE STATEMENT

SECTION XII

FORM C-108

SECTION XII

Not applicable due to nature of the Secondary Recovery application, this section does not apply.

PROOF OF NOTICE

SECTION XIII

OFFSET OPERATORS

Section 16, T-19-S, R-32-E

Lusk State 16 #1

Ray Westall Operating, Inc.
P.O. Box 4
Loco Hills, NM 88255

Section 17, T-19-S, R-32-E

Aqueduct AGG Federal #1

Marbob Energy Corporation
324 W. Main
Artesia, NM 88210

Section 21, T-19-S, R-32-E

Lynch #3

Shackelford Oil Company
203 W. Wall
Midland, TX 79701

Plains Federal X #4

Parker & Parsley Development L.P.

Section 28, T-19-S, R-32-E

Bowman #2

Shackelford Oil Company

Plains Unit #2

Parker & Parasley Development L.P.

Plains Unit Federal #3Y

Section 30, T-19-S, R-32-E

Federal USA #1J, #2J & #3J

Texaco Exploration and Production, Inc.
P.O. Box 3109
Midland, TX 79702

Section 31, T-19-S, R-32-E

Federal USA #1

Texaco Exploration and Production, Inc.

Section 32, T-19-S, R-32-E

New Mexico CR State #1

Texaco Exploration and Production, Inc.

Foran NF State #1

Parker & Parsley Development L.P. &
Matador Operating Company
8340 Meadow Road, Ste. 158, Pecan Creek
Dallas, TX 75231

Texaco-Cities Service St Com #1

Parker & Parsley Development L.P.

SURFACE OWNER

Section 20, T-19-S, R-32-E

Bureau of Land Management
1474 Rodeo Dr.
Santa Fe, NM 87505

Section 21, T-19-S, R-32-E

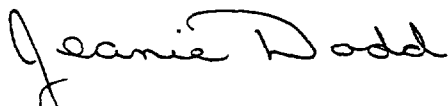
Bureau of Land Management

Section 29, T-19-S, R-32-E

Bureau of Land Management

A letter and a copy of the Form C-108 has been furnished to the surface owner and offset leasehold operators. I certify this to be true and correct.

Parker & Parsley Development L.P.



Jeanie Dodd
Proration Analyst

FORM C-108

SECTION XIII



PARKER & PARSLEY
PETROLEUM USA, INC.

P. O. Box 3178 • Midland, Texas 79702-3178
303 West Wall • Suite 101 • Midland, Texas 79701
915/683-4768

December 12, 1996

Ray Westall Operating, Inc.
P. O. Box 4
Loco Hills, NM 88255

RE: Application for Authorization to Inject
Lusk West (Delaware) Unit
Lusk Deep Unit A No. 12, 14, 17, 20
Southern Cal. Fed. No. 4, 6, 10, 11, 12
S.A. Bowman Federal No. 5
Amoco Federal No. 2
Mobil Federal No. 1 and 4
Lea County, New Mexico

Gentlemen:

Parker & Parsley Development L.P. is applying to the Oil Conservation Division for authorization of a water injection project for secondary recovery of hydrocarbons utilizing these subject wells as injectors.

The Oil Conservation Division requires that the attached information be sent to all offset operators and the surface owner.

Sincerely,

PARKER & PARSLEY DEVELOPMENT L.P.

Jeanie Dodd
Proration Analyst

Enclosures



PARKER & PARSLEY
PETROLEUM USA, INC.

P.O. Box 3178 • Midland, Texas 79702-3178
303 West Wall • Suite 101 • Midland, Texas 79701
915/683-4768

December 12, 1996

Marbob Energy Corporation
324 W. Main
Artesia, NM 88210

RE: Application for Authorization to Inject
Lusk West (Delaware) Unit
Lusk Deep Unit A No. 12, 14, 17, 20
Southern Cal. Fed. No. 4, 6, 10, 11, 12
S.A. Bowman Federal No. 5
Amoco Federal No. 2
Mobil Federal No. 1 and 4
Lea County, New Mexico

Gentlemen:

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Sincerely,

PARKER & PARSLEY DEVELOPMENT L.P. *JP*

Jeanie Dodd
Proration Analyst

Enclosures



PARKER & PARSLEY
PETROLEUM USA, INC.

P. O. Box 3178 • Midland, Texas 79702-3178
303 West Wall • Suite 101 • Midland, Texas 79701
915/683-4768

December 12, 1996 .

Shackelford Oil Company
203 W. Wall
Midland, TX 79701

RE: Application for Authorization to Inject
Lusk West (Delaware) Unit
Lusk Deep Unit A No. 12, 14, 17, 20
Southern Cal. Fed. No. 4, 6, 10, 11, 12
S.A. Bowman Federal No. 5
Amoco Federal No. 2
Mobil Federal No. 1 and 4
Lea County, New Mexico

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Sincerely,

PARKER & PARSLEY DEVELOPMENT L.P. ✂

Jeanie Dodd
Proration Analyst

Enclosures



PARKER & PARSLEY
PETROLEUM USA, INC.

P. O. Box 3178 • Midland, Texas 79702-3178
303 West Wall • Suite 101 • Midland, Texas 79701
915/683-4768

December 12, 1996

Texaco Exploration and Production, Inc.
P. O. Box 3109
Midland, TX 79702

RE: Application for Authorization to Inject
Lusk West (Delaware) Unit
Lusk Deep Unit A No. 12, 14, 17, 20
Southern Cal. Fed. No. 4, 6, 10, 11, 12
S.A. Bowman Federal No. 5
Amoco Federal No. 2
Mobil Federal No. 1 and 4
Lea County, New Mexico

Gentlemen:

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Sincerely,

PARKER & PARSLEY DEVELOPMENT L.P. *JP*

Jeanie Dodd
Proration Analyst

Enclosures



PARKER & PARSLEY
PETROLEUM USA, INC.

P.O. Box 3178 • Midland, Texas 79702-3178
303 West Wall • Suite 101 • Midland, Texas 79701
915/683-4768

December 12, 1996

Matador Operating Company
8340 Meadow Road, Ste. 158
Pecan Creek
Dallas, TX 75231

RE: Application for Authorization to Inject
Lusk West (Delaware) Unit
Lusk Deep Unit A No. 12, 14, 17, 20
Southern Cal. Fed. No. 4, 6, 10, 11, 12
S.A. Bowman Federal No. 5
Amoco Federal No. 2
Mobil Federal No. 1 and 4
Lea County, New Mexico

Gentlemen:

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Sincerely,

PARKER & PARSLEY DEVELOPMENT L.P.

Jeanie Dodd
Proration Analyst

Enclosures



PARKER & PARSLEY

PETROLEUM USA, INC.

P. O. Box 3178 • Midland, Texas 79702-3178
303 West Wall • Suite 101 • Midland, Texas 79701
915/683-4768

December 12, 1996

Bureau of Land Management
1474 Rodeo Dr.
Santa Fe, NM 87505

RE: Application for Authorization to Inject
Lusk West (Delaware) Unit
Lusk Deep Unit A No. 12, 14, 17, 20
Southern Cal. Fed. No. 4, 6, 10, 11, 12..
S.A. Bowman Federal No. 5
Amoco Federal No. 2
Mobil Federal No. 1 and 4
Lea County, New Mexico

Gentlemen:

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The Oil Conservation Division requires that the attached information be sent to all offset operators and the surface owner.

Sincerely,

PARKER & PARSLEY DEVELOPMENT L.P.

Jeanie Dodd
Proration Analyst

Enclosures