

Parker & Parsley Development L. P.

Proposed Lusk West Delaware Waterflood

Volume I of II

Engineering/Geological and Unit Recommendation Discussion

January 6, 1997

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NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development L.P.
EXHIBIT /B
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) Index

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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.
- The waterflood project could add 1,345 MBBLS of incremental oil and 2,012 MMCF of incremental gas reserves.
- 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

- 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

	Primary+Secondary	<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% (MS):	7,372.4	5,318.6	2,053.8
Lifting Cost (S/BOE):	4.43	3.72	7.24
Dev. Cost (S/BOE):	2.12	2.68	NA
Life: (years);	22.8	9.4	22.8
Capital (MS):	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 authigentic 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 (a) 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 if 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 frame work 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 participate. 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 identity 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 know 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 well 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.



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

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Geology:

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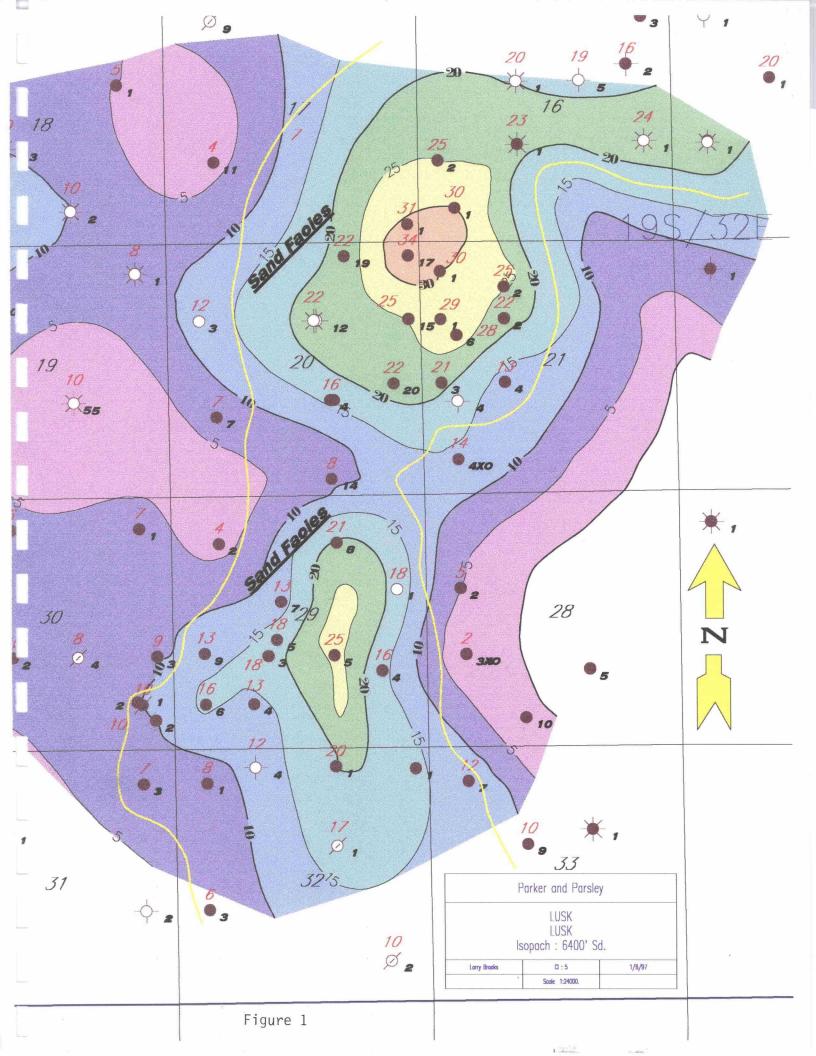
NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development L.P.
EXHIBIT ______
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Parker & Parsley's Petroleum Company's proposed Lusk West Delaware Waterflood projects Volume II (Tables, Graphs, Figures & Exhibits) Index

Isopach Pay Map	Figure 1
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Structure Map	Figure 3
Fluid Data Analysis	Figure 4
Core Analysis	Figure 5
Sidewall Core Analysis	Figure 6
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Proved Developed Producing Production Curve	Graph 1
Analogous Field Production Curve	Graph 2
Performance Summary	Figure 9
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Dykstra-Parson Model Curve	Graph 3
Dykstra-Parson Analysis	Figure 11
Total Proved Economic Summary	Figure 12
Total Proved Curve Summary	Graph 4
Proved Developed Producing Economic Summary	Figure 13

Parker & Parsley's Petroleum Company's proposed Lusk West Delaware Waterflood Project Volume II (Tables, Graphs, Figures & Exhibits) Index

Proved Undeveloped Economic Summary	Figure 14
Proved Undeveloped Curve Summary	Graph 5
Proposed Unit Boundary Outline	Exhibit A
Proposed Unit Working Interest Ownership	Exhibit B-I



MINERALDG ANALYSIS (Weight X)

SOUTHERN CALIFORNIA FEDERAL #7 WELL COKED 6345 '- 6437' (42')

DAMBON OIL COPPORATION

CORE LABORATORIES FILE: 189852

									TANK SOLVE	31100 77	1365
DEPTH DENS.	QUARTZ	PLACCLASE	PLACCLASE K-FELDSPAR	CALCITE	DOLOMI TE	PYRITE	AN-MORITE	BAR ME TE	MOLINI IE CHOOLE		•
6427.0 2.65	z	€	5	•	^	•	-	•	•	\$. •
6429.5 2.65	8	•	5	•	Ξ	•	•	•	•	o (, «
6431.0 2.65	2	•	±	•	6 1	•	•	•	•	•	•
6432.5 2.65	67	•	91	•	=	•	•	•	•	s	.
6433.6 2.65	2	•	<u> </u>	•	=	•	•	•	•	p (, -
6435.3 2.66	\$	۳ń	13	•	13	•	•	6	•	s (• •
6438.2 2.64	92	~	2	•	•	•	\$	•	•	9	1
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	Poe	Pocosity	2	21.5%	8.2%	<u> </u>	18.6%	Coex	ANAIN	^	
	TER M	PERMEABILITY		203-4	20md		48-4		3		
	トルフ	NET PAN	-				و . (۵	93	A13A14515		
	H LEG	Ly Mail Sering Allian	700			· 	20%	****	;		

Mineralog & Petrographic Analysis Figure 2



CORE MINERALOG TM

CORE LABORATORIES

DAMSON OIL CORPORATION SOUTHERN CALIFORNIA FEDERAL LOCATION CO, STATE COMPANY WELL

LEA COUNTY, NEW MEXICO

FIELD #7FORMATION CORING FLUID ELEVATION

WEST LUSK DELAWARE DELAWARE SAND CUT BRINE 3556

FILE NO. DATE API NO. ANALYSTS

57181-15562 24 FEB 1989

MGD

CLAY MINERALOGY

ILL + BMEC

CHL KAOL

TOTAL CLAY

PYR

ANHY

ΘYΡ

BAR

DOLO

CALC

KSPR

PLAG

SS ORTZ

BULK MINERALOGY

REMARKS

Clay WEIGHT Perc Relative 0

Depth, FT 90

Mineral WEIGHT Percent

50

10

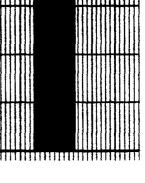
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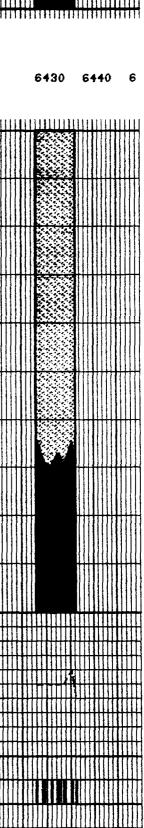
Dansity Index

(0/00)

Sample Locations

Motrix





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
	100.0

THIN SECTION ANALYSES: GENERAL DESCRIPTION

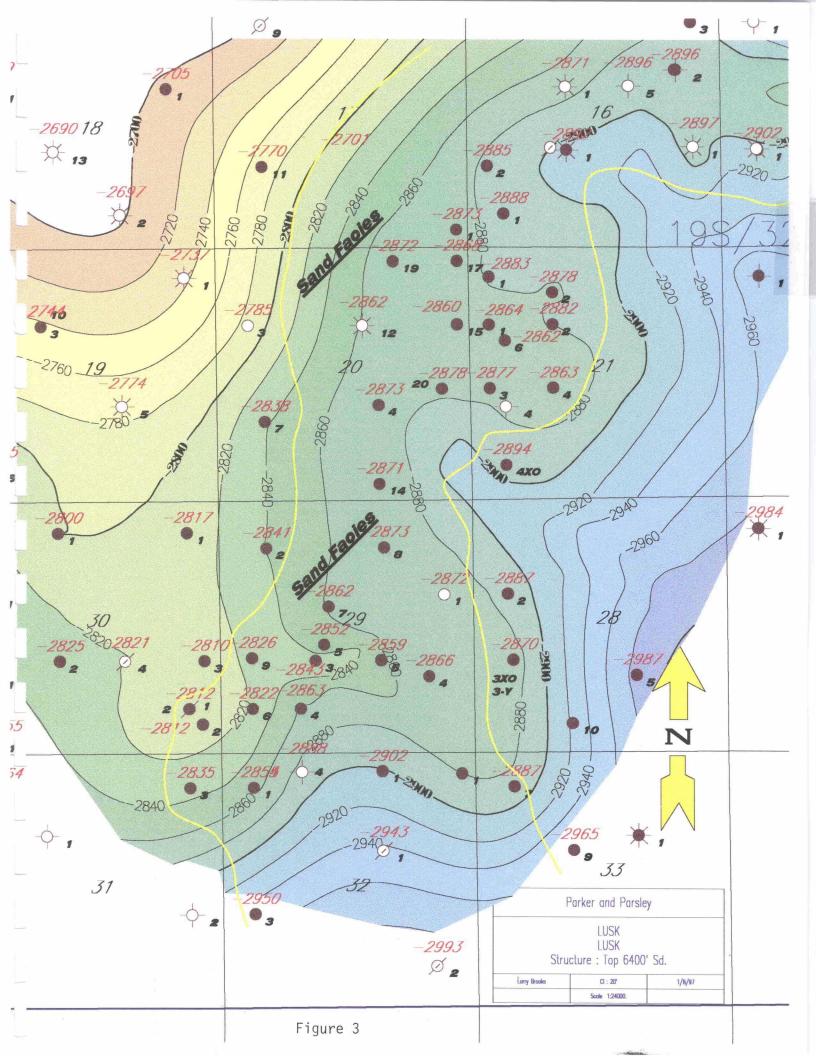
Sample Depth (Feet): 6427.9 General Rock Type: Feldspathic sandstone Classification (Rock Name) Folk (1980): Subarkose Pettijohn et al. (1972): Subarkose Grain Size Minimum: 0.029mm (medium silt) Maximum: 0.840mm (upper coarse sand) Average: 0.115mm (upper very fine sand) Sorting: Good Grain Angularity: 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)

Very well interconnected

Not present

Pore Network:

Fractures:





CORE LABORATORIES

File RFLM 90056

PHILLIPS PETROLEUM COMPANY Date Sampled: July 10, 1990 Lusk Deep Unit "A" #17 Lea County, New Mexico

FORMATION CHARACTERISTICS

Delaware-Brushy Canyon Formation Name Date First Well Completed July 23, 1988 2250 psig @ 6467 ft. Original Reservoir Pressure 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 psiq @ 64

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

Flowing Bottom Hole Pressure

Primary Separator Pressure

Primary Separator Temperature

Secondary Separator Pressure

Secondary Separator Temperature

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.



File RFLM 90056 Lusk Deep Unit "A" #17

HYDROCARBON ANALYSIS OF FIELD SEPARATOR GAS SAMPLE

	Mol	
Component	<u>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
	100.00	6.512

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.



CORE LABORATORIES

Fire 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 = V at 113°F. = 1.00700 V at 68°F.

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

<u>Differential Vaporization Data</u>

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

Separator Conditions	Bo(1)	Rs(2)	Tank Oil Gravity API at 60°F.
66 psig and 63°F.			
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

Field Formation

: DAMSON OIL CORPORATION : SOUTHERN CALIFORNIA FEDERAL #7

Company Well

: WEST LUSK DELAWARE FIELD

File No.: 57181-15562 Date : 4-11-88

SUMMARY OF CORE DATA

ZONE:			ZONE:		PERMEABILITY:	
Ti Identification		DELAWARE SAND	Number of Samples	13		
Top Depth	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6395.0 ft	Thickness Represented -	13.0 ft	Flow Capacity	1003.2 md-ft
Bottom Depth	1 1 1 1	6460.0 ft			Arithmetic Average	77.2 md
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13	POROSITY:		Geometric Average	
-					Harmonic Average	0.01 md
DATA TYPE:			Storage Capacity	219.0 ¢-ft	Minimum	0.00 md
Porosity	1 1 1	(HELIUM)	Arithmetic Average	16.8 %	1 1 1 1 1 1	203. md
Permeability (MAXIMUM) Kair	(MAXI	MUM) Kair	Minimum	8.2 %		64.0 md
			Maximum	21.5 %	Standard Dev. (Geom) K	K.10 [±] 1.400 md
CUTOFFS:			Hedian	17.5 %		
Porosity (Minimum)	t t t t	0.0 %	Standard Deviation	±4.0 %	HETEROGENEITY (Permeability):):
Porosity (Maximum)	1 1 1	100.0%				
Permeability (Minimum)	(mnu	0.000.0	GRAIN DENSITY:		Dykstra-Parsons Var	0.540
Permeability (Maximum)	(mnu	100000. md			Lorenz Coefficient	0.340
Water Saturation (Maximum)	faximum)	100.0%	Arithmetic Average	2.66 gm/cc		
Oil Saturation (Minimum) -	nimum) -	0.0 %	Minimum	2.64 gm/cc	AVERAGE SATURATIONS (Pore Volume):	olume):
Grain Density (Minimum)	(wnw)	2.00 gm/cc	Maximum	2.67 gm/cc		
Grain Density (Maximum)	(mnm)	3.00 gm/cc	Median	2.66 gm/cc	0il	12.2 %
Lithology Excluded	; ; ; ;	NONE	Standard Deviation	±0.01 gm/cc	Water	53.0 %

LABORATORIES CORE

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

: WEST LUSK DELAWARE FIELD : DELAWARE SAND : CUT BRINE : 3556' GL

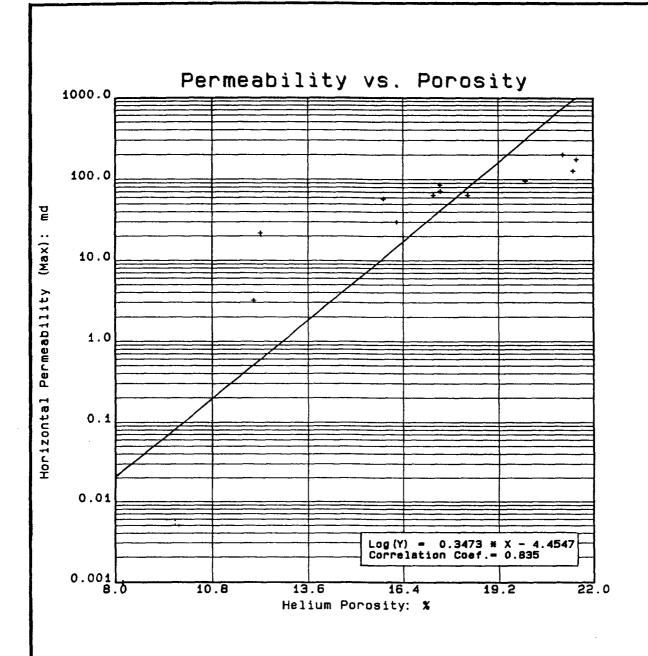
File No.: 57181-15562 Date : 4-11-88

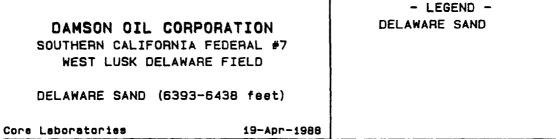
Date: 4-11-80 API No: Analysts: 0LSON

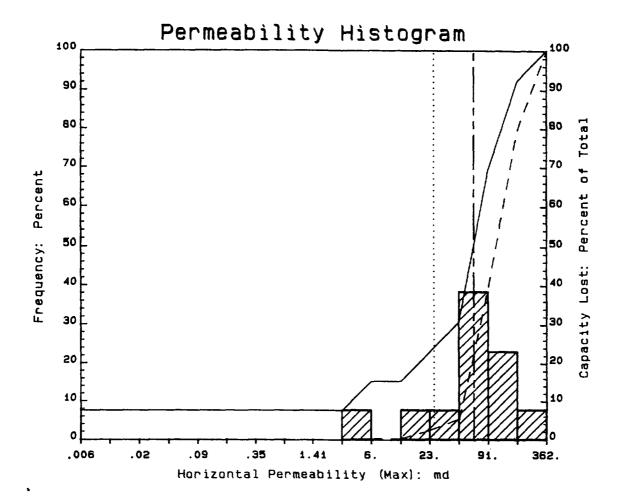
S

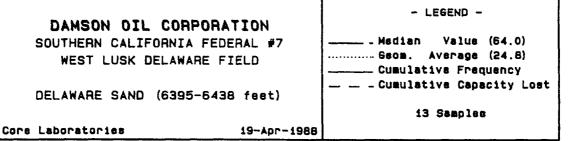
S U R S S ¥ z Ø ш \simeq 0 ں

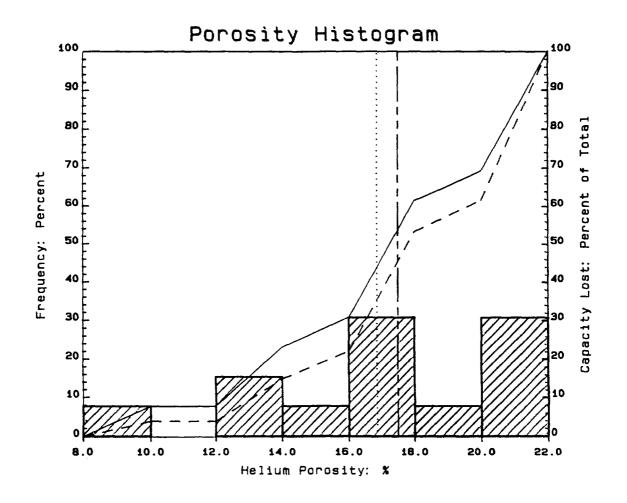
9 9 9 9	ft ft 395.0-00. 400.0-01.	(MAXIMUM) (MAXIMUM) md CORE CORE <.01	(90 DEG (90 DEG (81 r NO. 1 <.0	HELIUM) (HELIUM) 6395-6437 CUT 1 8.2 0 12.0	SATUI (PORE 01/2 0.0	VOLUME) VOLUME) REC 42' 86.3	GRAIN DENSITY gm/cc 2.67 2.66	DESCRIPTION Sd shy slty sh lam Sd shy slty sh lam Sd shy slty sh lam shy slty sh lam shy slty sh lam
<i>ववववववववववव</i>	0- 18 0- 19 0- 27 0- 28 0- 30 0- 31 0- 33 0- 34 0- 35 0- 36 0- 36 0- 37	22.0 177. 96.0 30.0 64.0 86.0 58.0 72.0 203. 64.0	21.0 163. 88.0 30.0 62.0 77.0 57.0 70.0 200. 60.0	2 ROSERBRIE	0.0 115.7 113.9 113.1 113.9 113.9	87.8 44.7 44.9 46.1 50.8 50.9 49.5 39.0	2.67 2.64 2.67 2.67 2.65 2.65 2.65 2.65	NA Sd shy sity sh lam Sd shy sity sh lam NA Sd shy sity sh lam Sd
6437.(6438.(7.0- 38.0	CORE	NO.	643 <i>/-</i> 6460 CUI	. 87	7 7 1		NA Sd v shy sh lam Lost core



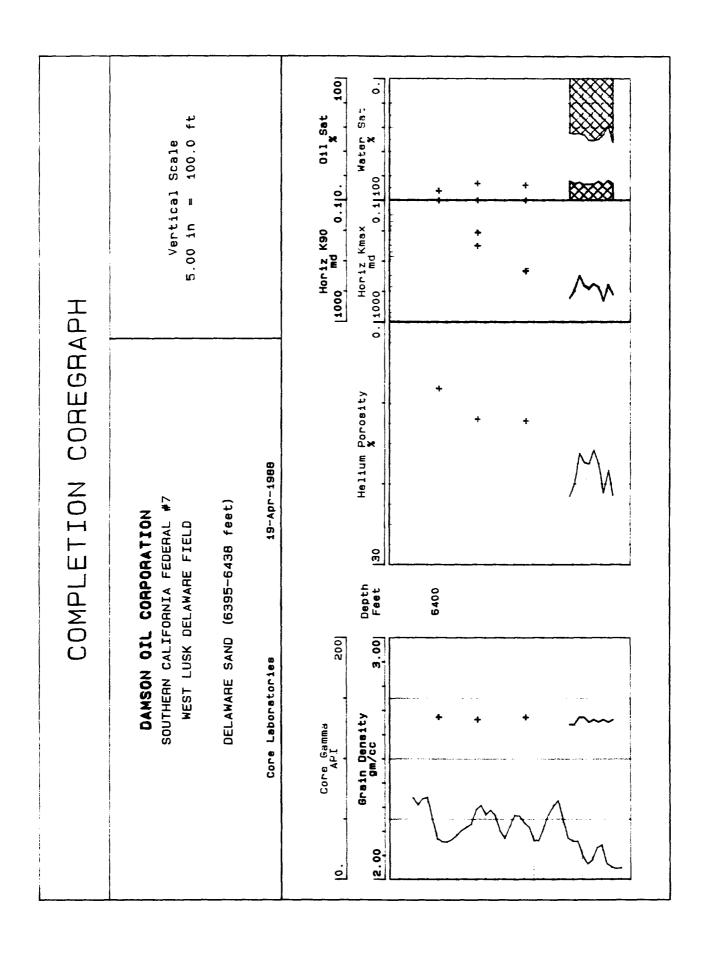








DAMSON OIL CORPORATION SOUTHERN CALIFORNIA FEDERAL #7 WEST LUSK DELAWARE FIELD DELAWARE SAND (6395-6438 feet) Core Laboratories - LEGEND Median Value (17.5) Arith. Average (16.8) Cumulative Frequency - Cumulative Capacity Lost



LABORATORIES CORE

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

Field Formation Coring Fluid

File No.: 57181-15594 Date: 5-5-88 API No.: Analysts: REIMMEIMER

: WEST LUSK DELAWARE FIELD : DELAWARE : CUT BRINE : 3573' KB Elevation

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S

						GAS	DESCRIPTION
(SIDENALL)	(HELIUM)	(PORE VOIL	VOLUKE) Vater-	(BULK VI	VOLUME)	DETECTOR UNITS	
	M	×	1	K	*		
55.0	20.7	0.0	71.4	0.0	2, 2	<u>.</u>	vfg lt-gry f
37.0	18.7	0.0	78.5	0.0	4.0	ó	lt-gry
19.0	16.7	0.0	74.4	0.0	£.4	o'	vfg lt-gry f
105.	23.1	4.5	54.5	1.0	9.5	ď	vfg gry-tan
100.	2.22	3.5	58.6	9.0	9 .4	ં	_
95.0	21.9	2.1	63.9	9.9	7.5	e,	gry-tan
118.	23.9	₹.6	63.1	1.3	7.5	72.	_
115.	23.2	3.9	55.1	6.0	8.5	rų.	vfg gry-tan
129.	24.3	7.6	61.8	1.9	7.4	ö	vfg gry-tan
16.	23.3	4.3	2.09	1.0	£.	10.	vfg gry-ten flu-dul
238.	25.9	14.6	46.8	3.8	10.0	25.	vfg gry flu-lt
228.	25.4	14.3	49.5	3.6	9.3	15,	vfg gry flu-lt
264.	27.3	12.9	45.0	8. W	11.4	ง ั	gry flu-lt
278.	27.4	15.0	48.2	4.1	10.1	20.	gry flu-lt
271.	27.3	12.1	48.5	3.3	10.8	25.	gry flu-it yez 6
239.	25.9	9.1	54.6	2.4	9.4	œ,	pry flu-lt yel m
						•	=
227.	4.22	0.0	69.5	0.0	7.8	•	•
12.	23.3	0.0	74.6	0.0	5.9	0	FT.
12.	23.3	0.0	9.19	0.0	6 ,3		Sd vfg lt-gry flu-0
.622	5.25	0.0	73.5	0.0	æ. •	å	g lt-gry
78.	22.6	0.0	76.3	0.0	5.4	ď	-
145.	21.9	0.0	81.3	0.0	4.1	ં	ofg It-
208.	23.1	0.0	71.1	0.0	6.7	÷	vfg gry
211.	23.3	0.0	74.9	0.0	5.9	5	sd vfg gry flu-0

Figure 6

UNSTEADY-STATE WATER-OIL RELATIVE PERMEABILITY

Company

Damson Oil Corporation

Well

Southern California Federal No. 7

Formation

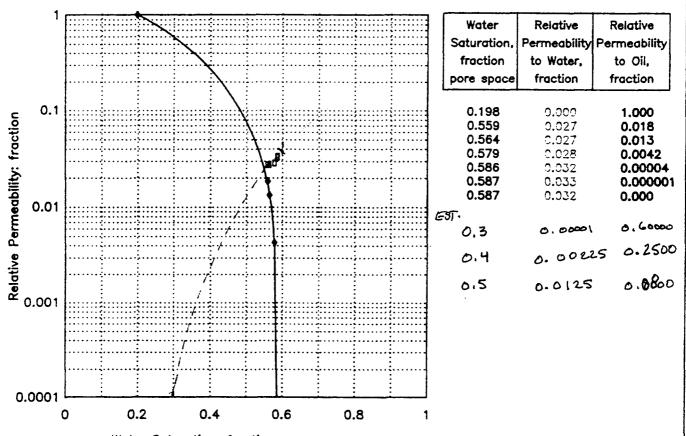
Delaware

Field

: West Lusk

County, State

Lea, New Mexico



Water Saturation: fraction pore space

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

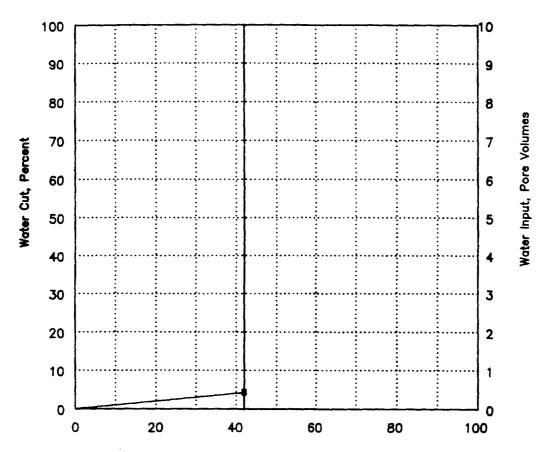
Well : Southern California Federal No. 7

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



Oil Recovery, Percent Pore Space

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

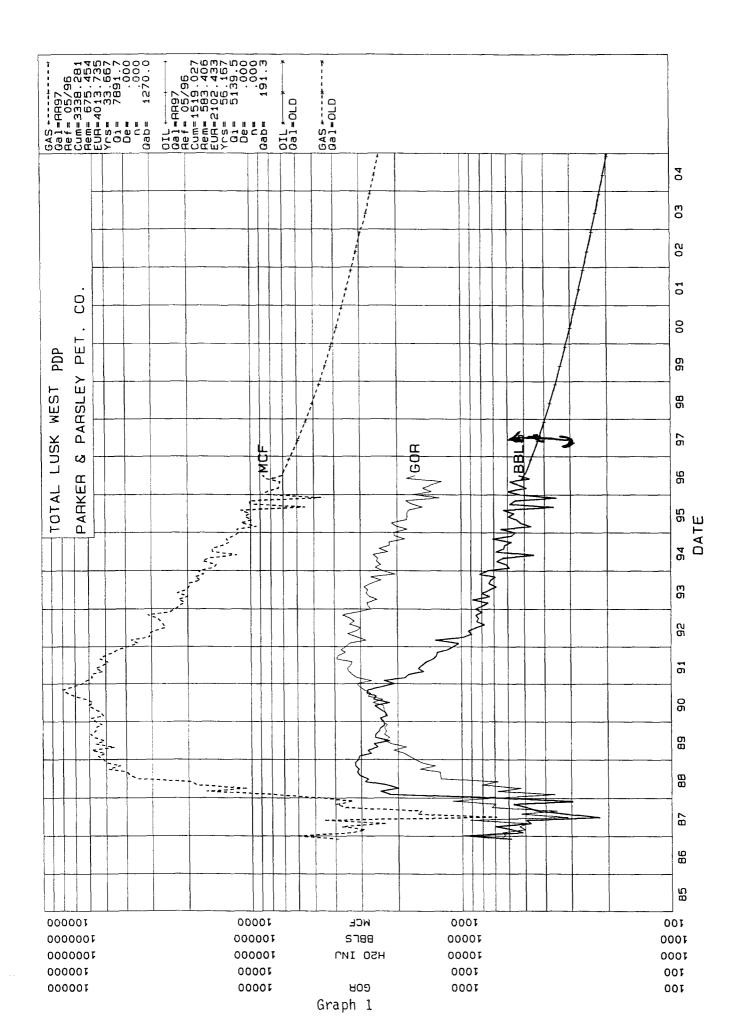
Effective Permeability

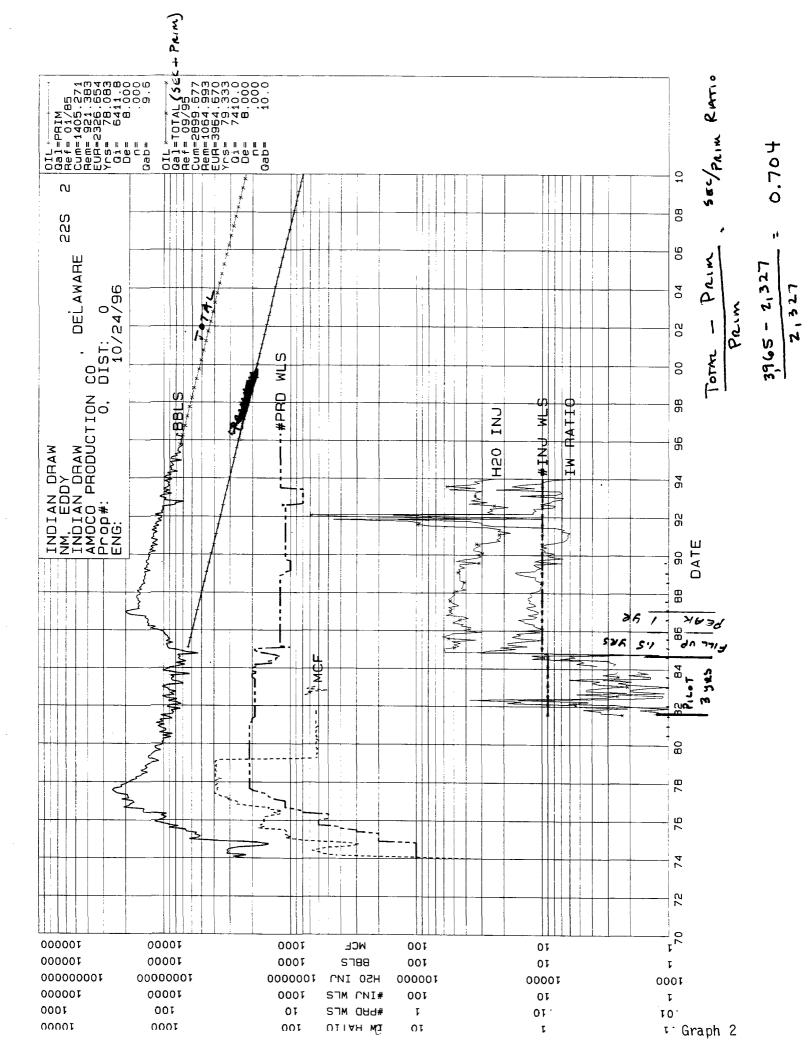
to Oil at Swi : 59 md

Figure 8

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			Cun	Cummulative to 7/1/96		PRIMARY		_		INCREMENTAL SECONDRY	ITAL SE		TOTAL			Por- H	H20		
LEASE	Well #	SEC Unit		OOIP MBO	MMCF	MBO	MMCF	GOR	_	MBO	MMCF (GOR	OIL, MBO F	FACT % F	Pay c	osity S	SAT	Acres AC-FT	C-FT
LUSK DEEP UNIT A INJ	17	20 A	1,064	82 2	146.4	149.9	240.6	1,605	14.1%	75	84	1,124	225	21 1%		0 18	09.0	67	2280
LUSK DEEP UNIT A	19	20 B	362		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 PUD	22	20 F	175	0.0	0.0	17.5	34.7	1,984	10.0%	ග	12	1,389	56	15.0%	10	0.18	090	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	66	75 9%	22	0 17		40	880
LUSK DEEP UNIT A	15	20 H	444	32 9	80.9	32.9	80 8	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 1	294	13.0	35.5	13.7	36.1	2,635	4.7%	7	13	1,845	21	7.0%	22	0.19	99 0	25	550
LUSK DEEP UNIT A	4	20 J	362	94.4	285.1	9.66	314.3	3,156	27.5%	20	110	2,209	149	41.2%	16	0.17	0 61	20	800
LUSK DEEP UNIT A INJ	14	20 0	80	8.6	38.9	9.8	38.9	3,969	12.3%	5	14	2,779	15	18.4%	80	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%	56	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	412	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	_		454	29	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	19	1850
MOBIL FEDERAL	*	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	92	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	99	1703
MOBIL FEDERAL INJ	4	21 X	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	c,	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	099
Tract 4B Total/Sum/Avg			694	138.1	354.0	328.7	469.3	1,428	47.4%	164	164	666	493	71 1%	17	0.21	0.51	09	1050
SOUTHERN CAL FED INJ	=	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	59	580
SOUTHERN CALIFORNIA FED	œ	29 B	388	89.0	186.9	98.3	203.5	2,070	25.3%	49	7.1	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	09.0	51	1025
SOUTHERN CALIFORNIA FED	-	29 H	632	2	320.8	281.3	368.1	1,309	44.5%	141	129	916	422	%8.99	18	0.18	0.58	70	1260
SOUTHERN CAL FED INJ	4	59 I	209		0.0	20.9	41,5	1,984	10.0%	10	15	1,389	31	15.0%	16	0.18	09.0	28	448
SOUTHERN CALIFORNIA FED	ξĊ.	29 J	373	7	268.4	142.2	288.8	2,031	38.1%	71	101	1,422	213	57.2%	25	0.16	99 0	41	1025
SOUTHERN CAL FED	о	29 L	185		0.0	18.5	36.7	1,984	10.0%	o .	5.	1,389	2,58	15.0%		0.19	0.55	52	300
SOUTHERN CAL FED INJ	φ,	2 6	202	U	160.3	5.86	4.5.4	2,539	32.9%	4, 5	- 6	1,7,7	102	45.5%	5 5	7 7	20.0	٠ ۲	400
SOUTHERN CAL FED INJ	2 ;	2 6	444		0.0	4. 0	0.00	984	10.0%	77	- e	1,389	/0	15.0%	0,7	7 7	70.0	4 C	1020
SOUTHERN CAL FED PUD	13	7 6Z	223	1	0.0	277	5.44.3	1,984	10.0%		0 0	1,389	45	%0.C1	- 5	- 0	0.0	67	482
Tract 1A Total/Sum/Avg			3,584	545.2	1043.2	821./	7.8061	2,200	%6.22 %6.22	411	228	1,540	1233	34.4%	18	Σ Σ	6G N	388	(544
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	09.0	41	738
S. A. BOWMAN FEDERAL	4	29 N	174	1	104.5	59.2	104.5	1,765	34.1%	30	37	1,236	83	51.1%	13	0.19	0.56	25	325
Tract 1B Total/Sum/Avg			518		378.9	180.4	397.9	2,206	34.8%	90	139	1,544	271	52.2%	16	0.18	0.58	99	1063
Grand Total			•	1,519.1	3,338.1	2,180.3	4,302.6	1,973	21.0%	1090	1,506	1,381	3,270	31.5%	21	0.19	09.0	1,003	20,808
INJECTOR LOC PRIM RES MOVED TO SEC. RES	ÆD TO	SEC. RE	S 2,551	0	0	255.1	506.1	1,984		1345	2012								
1/6/97							>	VOLUMES										8.41 AM	~
a								1											









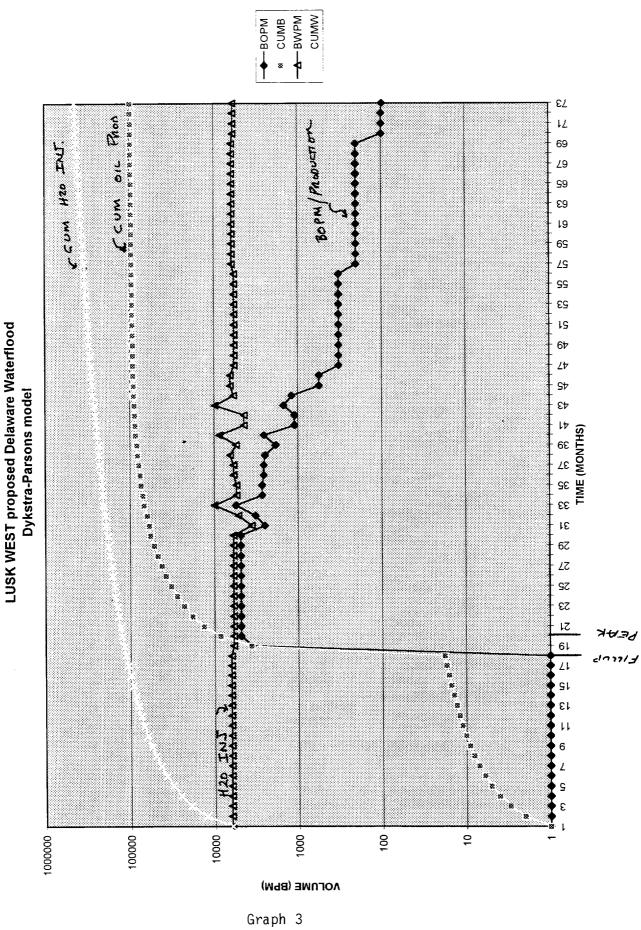
Unit Lease Location Operator Field County, State	Old Indian Draw Unit T228-R28E Amoco Indian Draw Eddy, NM	Proposed Lusk West Delaware Waterflood total pro T19S-R32E Parker & Parsley Pet. Co. 64(0) Delaware Lea. NM
Field Discovery Date Unitization Date Initial Injection Tare Stage of Waterflood	1973 Jan-82 Jan-82 Mid	Jun-89 Unitization Proposed 199° Proposed
Injection Pattern: Primary Depletion total wells Well Count at Project Start Producers Inject its Lota	8 (ac 5-spet 21 12 13 22	80 ac 5-spot 21 15 12 27
Ratio Injectors in Adjacers Average Spacing Acres Well)	83 40	0 8 0 40
Maximum No. We.ls Producers Injectors Total	12 19 22	15 12 27
Infül Drilled We '- Producers Injectors Total	ir ed Feet Dest	est est
Average Depth (9)	3,270	9.38
Pay thickness, Fr Protect Area : Note: Ah, Au-Fr Protestry, % Sw. % Average Permean in the ma	13 880 12,320 17 4, 1,45 50 1 200 68	23 156.8 21.8/8 19 50. 1956.27#
P _{or} Oil Gravity, "Al	राह्य वीति छन्दा	((⁻ 4)
OOIP, (MBBL), est. volumetric over Acre. BPC Ac coorr. (FBC Ac by	na na na	10,393 10,362 499
Cumulative Oil Production a 1-1-97 (MBBL) (Est.) Consulative solding increase, 1941 here Consulative Kee, very baches, New Yorking oil Oil and the Fer Weil Mirist	2,890 3.38. 3.8 3.8	1,557 1,532 15,0 11
Ultimate Primary Oil Recovery (MBBL) Ultimate Primary - J. Recovery BBL Acre Ultimate Primary - Recovery Factor (%) Average Primary Recovery Per Well (MBBL/Well)	2,32* 2 · · · · NA 111	2.190 21.0 81
Chinalative Secretary, in Recovery, it effects (Miritis). Ultimate Secondary Oil Under Current Mode (MBBL). Average Ultimate Secondary Per Well (MBBL). Secondary: Primary Ratio. Time from beauting a meetion to stock fest onse in onests. First Response to Leak of Robe, months. Feak WE of Robe (Notal Current). Peak WE of Robe (Notal Current).	1.638 137 × 5 0.704	1,090 -3 10.5 0.500 21 -8 -80 Princeted 52 Projected
Rentern. Their time Mistri. Ultimate Oil Recovery MEP Ultimate Oil Recovery Factor ("a), Current Operations Ultimate Oil Recovery/Well (MBBL/well)	+ 5 5 > 5 Mode	2.487 3.27 / 31.5 121
Composite Product of a start of flood (MPC). Sup Water Proc. of an a start of the distribition diagram with the Volume Composite Windows Windows (Volume Composite Windows).	218 218 217	1 258 1 258 183 1830
histofic Marker of Carros, in 12 Nove Medition Consideration of Meditine Committee Committee Construction of Carros	1,42,1 1,72,1 1,42,1	

RECOVERY CALCULATIONS

Proposed Delaware Sandstone Waterflood

Lusk West field

			West field					
Original Oil	n place	Lea	County, NN	1				
Original Oil- Volumetric A	·							
•	•	Δ=	1,003	21	Ah=	20808		
Wilere	q = Porosity (Dec.)	,,	1,000	21	q =	0.19		
	S _w = Connate Water Saturation (dec.)				S _{w=}	0.60		
	B _{ol} = Original Formation Volume Factor			F	3 _{oi} =	1,17		
	Original Oil-in-place, N = 7,758 Ah q(1		_i B _{oi}	-	0			
Illainn na n- Dein	D				N =	10,393	MSTB	
<u>Jitimate Prir</u>	nary Recovery Proposed Unit Area:							
	Remaining Reserves (Decline Curve	e Ana	lysis) @ JA	N 1, 199	7=	369	MSTB	
	Cumulative Oil Production @ Jan -1-	-97=				1,557	MSTB	
	Ultimate Primary Recovery, existing v					the state of a Market state	MSTB	
	Ultimate Primary Recovery, proposed		_			· · · · · · · · · · · · · · · · · · ·	MSTB	
	Ultimate Primary Recovery incl. p Primary Recovery Factor=	ropo	sed additio	onal dril	ling =	2,180 21.0	MSTB %	
						21.0	70	
Waterflood F		lon	1 1007-			1 557	MCTR	
	N _p , Est. Cumulative Oil Production @	Jan	1,199/=				MSTB	
	OIP @ Jan 1, 1997= Estimated Oil Saturation @ Jan -1-96					10,393	MSIB	
	Where B _{of} = Current Formation V		e Factor			1.17		
	B _{oi} = Original Formation V					1.27		
	Sw = Estimated Current \					0.60		
	S _{or} = Estimated Residual	I Oil S	Saturatrion	(dec.)		0.18		
	$S_{\circ} = (1-Np/N)(Bof/Boi)(1-Sw)$							
	$S_o = \frac{0.31}{}$							
	Remaining Mobil Oil, Nm @ 1-1-97							
	Where Sor = Residual Oil Saturation	ı						
	$N_m = 7758 \times Ah \times q \times (S_o - S_{or})/B_{of}$							
	N _m = 3,501 MSTB							
	Est. 75% of total recoverable reserves	is wi	thin pattern	1:				
	N_m recoverable = $Nm \times .75 = 2.6$	326 N	MSTB					
	Estimated Potential Waterflood Re	cove	ry. Now					
	Where $E_v = E_A \times E_v$		J. p					
	E _A = Fraction of Area Displa	aced i	ov Injected	Water			0.6	(
	E _V = Fraction of Vertical Co				bearins	2.,	0.54	
	Injection Water	iripor	ient or Nes	ervoir Di	spiaceu i	Эy	U.U4	
	$E_V = 0.32$							
	$N_{PW} = N_m \times E_V$							
	N _{pw} = <u>851</u> MSTB	•						
Ultimate Sec	ondary Recovery		D 4 4 07 -				4.645	
	Remaining Waterflood Recovery reser		_	مالہ ھا	1 07-			MBBL
	Remaining Primary reserves from curr WF Ult.Sec.+ Primary Reserves, su		_	_				MBBL
	WF Ult.Sec.+ Primary Reserves, fro	-		inc cuto	–		members of the the	MBBL MBBL
	Ultimate Recovery Factor =)III C	1511 110W -				31.5	
	•						J	
	Ultimate Secondary Recovery:						1,091	MBBL
	Secondary : Primary Ratio =						0.50	%
	Fasian as a Fin T							
	Estimated Fillup Time							
	Fillup volume = $7758 \times Porosity \times S_g \times $	Ah					3,067	MBBL
	Sg= 1-Sw-So	10						
	Sg= 0 Water Injection Rat 4,488 BWPD).10 n		(annroy	B/VD	122400		
	Fillup time = Reservoir Volume/Rate	•		(approx.	683 D	122400 ays or	1.87	Yre
	Hood from Volume Nate			-		uyo 01	1.07	. '''



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

(COVERAGE FROM DYKSTRA-PARSONS EQUATION)

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

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		Ξ	13.00	FEET
AVERAGE POROSITY		=	- 168	FRACTION
VICOSITY OF OIL		=	.88	CP
VISCOSITY OF WATER		=	.80	CP
OIL FORMATION VOLUME	E FACTOR	=	1.269	RBL/STB
WATER FORMATION VOLU	JME FACTOR	=	1.010	RBL/STB
WATER SAT. AT BEGIN	NING	±	.480	FRACTION
GAS SAT. AT BEGINNI	NG	=	. 120	FRACTION
OIL SAT. AT BEGINNIS	NG	=	.400	FRACTION
RESID. OIL SATURATIO	ON	=		FRACTION
RESID GAS SAT IN UNS	SWEPT AREA			FRACTION
RESID GAS SAT IN SWE		=		FRACTION
RESERVOIR TEMPERATUR		=		DEGREE F
CONSTANT INJ RATE		=		STBW/D/PATTERN
INJ PRESS DIFFERENT	IAL	=		
WELLBORE RADIUS		=		FEET
AREAL SWEEP AT BT		=		FRACTION
WATER-OIL RATIO CUTO) F	=	40. 0 0	STB/STB

PERMEABILITY DATA

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

R	ELATIVE	PERMEABI	LITY:
	SW	KRW	KRO
- 1	-400	.002	.250
2	.450	.006	.150
3	.500	.012	.080
4	.559	.027	,018
5		.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. <i>7</i> 3	MD
WATER INJECTION RATE	=	200.00	ST8/D/PATT

END-POINT MOBILITY RATIO =
SURFACE END-POINT MOBILITY RATIO =

.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
4 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:

ARITHMATIC AVERAGE PERMEABILITY = 83.60 MD LOGARITHMIC AVERAGE PERMEABILITY = 57.73 MD

DYKSTRA-PARSONS VARIATION DATA:

LAYER	PERM (MD)	THICK (FT)	CUMTH (FT)	%GREATER (%)
	(MD)	(61)		(~)
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	8 6.0	1.0	5.0	38.46
6	72.0	1.0	6.0	46.15
7	64.0	1.0	7.0	53.8 5
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	THIC	CUMTH	FRACTION	HK	CUMHK	FRACTION
	(MD)	(FT)	(FT)	OF THICK	(FT-MD)	(FT-MD)	OF HK
1 2 3 4 5 6 7 8 9	203.0 177.0 128.0 96.0 86.0 72.0 64.0 58.0 30.0 22.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0	.08333 .16667 .25000 .33333 .41667 .50000 .58333 .66667 .75000 .83333 .91667	203.0 177.0 128.0 96.0 86.0 72.0 64.0 58.0 30.0 22.0 3.2	203.0 380.0 508.0 604.0 690.0 762.0 826.0 890.0 948.0 978.0 1000.0	.20235 .37879 .50638 .60207 .68780 .75957 .82337 .88716 .94498 .974.88

LORENZ COEFFICIENT = .375

LORENZ COEFFICIENT USING POROSITY DATA:

LAYER	PORO (FRAC)	THICK1	PERM (MD)	THICK2 (FT)	CUMHPHI (FT)	FRAC OF HPHI	CUMHK (FT-MD)	FRAC OF HK
1 2 3 4 5 6 7 8 9	.215 .214 .211 .200 .183 .175 .175 .173 .162 .158 .122	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	203.0 177.0 128.0 96.0 86.0 72.0 64.0 58.0 30.0 32.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	.22 .43 .64 .84 1.02 1.37 1.55 1.71 1.87	.20351 .30361 .39848 .48529	203.0 380.0 508.0 604.0 690.0 762.0 826.0 890.0 948.0 978.0 1000.0	.20235 .37879 .50638 .60207 .68780 .75957 .82337 .88716 .94498 .97488

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 1.5 Years. FILL UP
INCREMENTAL TIME = 563.66 DAY 1.5 Years. FILL UP
OIL PRODUCTION RATE (BEFORE FILLUP) = .00 STB/DAY
OIL PRODUCTION RATE (AT FILLUP) = 159.18 STB/DAY

COVERAGE AND WOR FROM DYKSTRA-PARSONS EQ.:

	LAYER	COVER:	AGE H20-6	DIL RAT B/STB)	CUM PROD (STB)	INC PROD (STB)	-
	1 2 3	.5! .5: .6(50 74 05	.09 .20 .34	56390.0 58860.7 62069.1 67572.2 72904.9 77986.2 80434.6 82268.4 84782.4 86961.2 88425.2 88920.6 88920.6 88920.6 88920.1 90712.1 93943.0 96549.7 97625.5 99512.4 102542.1	56390.0 2470.7 3208.4	
	5	.6	59 11	.51 .72	67572.2 72904.9	5503.1 53 3 2.7	
	6 7	.70 .70	51 34	.96 1.22	77986.2 80434.6	5081.3 2448.4	
	8 9	.86 .83	02 27	1.53 1.94	82268.4 84782.4	1833.8	
	10	.84	48	2.45	86961.2	2178.8	
	12	.80	57	3.85	88920.6	495.4	
	14	.8.	74 25	6.68	89605.1	684.5	
	16	.9	16	16.62	93943.0	3230.9	
	18	.92	•2 52	30.06 62.87	96549.7 97625.5	2606.7 1075.8	
	19 20	1.00	70 2 00 999	254.91 2 9 9.99	99512.4 102542.1	1886.9 3029.7	
(B-r)	MP-3	15	DME-218	COM. MP-SI	R COM.MI-21R	AVG.WUK	CUM. 1-D
.7 1.3	563° 5886	90.0 60.7	56390.0 2470.7	.00000E+	00 .18358E+0	5 .00	917.92 935.74
2.0	6206 675	59.1 72.2	3208.4 5503.1	.15562E+	04 .19227E+0	5 .34	961.37 1010.62
3.3	7290 7790	04.9 86.2	5332.7 5081.3	.85962E+	04 .21293E+0	5 .77	1064.65
4.6 5.2	8043 8226	34.6 58.4	2448.4 1833.8	.17304E+ .20477E+	00 .18358E+0 03 .18715E+0 04 .19227E+0 04 .20212E+0 04 .21293E+0 05 .22466E+0 05 .23110E+0 05 .23657E+0	1.37	1155.49 1182.87
5.9 6.5	8478 8698	82.4 51.2	2514.0 2178.8	.25961E+ .31970E+	24522E+06 05 .25396E+06 05 .26366E+06 05 .26366E+06 05 .26366E+06 05 .26366E+06 05 .26951E+06 06 .33997E+06 06 .41968E+06 06 .48384E+06 06 .86290E+06 09 .19168E+06	2.18	1226.09 1269.82
7.8	889	20.6	495.4	.39207E+	05 .26366E+06	4.35	1318.32
9.1	8960	05.1	684.5	.44193E+	05 .26951E+06	7.28	1347.55
10.4	9394	43.0	3230.9	.10920E+	06 .33997E+0	16.58	1699.84
11.7	9762	25.5	1075.8	. 18364E+	06 .48384E+06	58.38	2419.20
12.4 13.0	1025	12.4	1886.9 3029.7	.62513E+ .19144E+	06 .86290E+06 09 .19168E+09	62981.92	4314.48
					E CBAR 0 .5499 8 .5740 2 .6590 6 .7110 5 .7605 3 .8028 4 .8268 8 .8481 1 .8672 1 .8672 1 .8672 1 .8738 3 .8846 9 .9161 9 .9161 5 .9521 9 .9705		
.7	16	50.77	.00	. 132	5499		
2.0	12	25.18	42.71	. 145	3 .6053		
3.3	' (98.71	75.98	- 170	6 .7110		
4.6	9	76.11	104.37	. 182	3 .7844		
5.2		8.17	115.86 126.91	. 192 . 198	5 .8023 4 .8268		
6.5 7.2	4	9.83 2.31	137.40 146.84	.203 .207	5 .8481 0 .8623		
7.8 8.5		5.65	155.21 155.21	.208 .208	1 .8672 1 .8672		
9.1 9.8	ě	17.26	170.57 178.32	. 209 . 212	7 .8738 3 .8846		
10.4 11.1	•	6.54	185.91 191.78	. 219 . 226	9 .9161 0 .9416	•	
11.7 12.4		5.35 1.00	195.79 198.75	. 228! . 232'	5 .9521 9 .9705		
17 0							

SUMMARY OF RESULTS

1 0 200.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	REC %OIP
6 1010.6 200.0 202124.1 67572.2 111.7 59.6 .5; 7 1064.6 200.0 212929.4 72904.9 98.7 76.0 .7; 8 1123.3 200.0 224664.2 77986.2 86.6 91.2 1.0; 9 1155.5 200.0 231097.6 80434.6 76.1 104.4 1.3; 10 1182.9 200.0 236574.4 82268.4 67.0 115.9 1.7; 11 1226.1 200.0 245217.9 84782.4 58.2 126.9 2.1; 12 1269.8 200.0 245217.9 84782.4 58.2 126.9 2.1; 13 1304.4 200.0 260884.2 88425.2 42.3 146.8 3.4; 14 1318.3 200.0 263663.3 88920.6 35.7 155.2 4.3; 15 1318.3 200.0 263663.3 88920.6 35.7 155.2 4.3; 16 1347.5 200.0 263563.8 89920.6 42.3 155.2 5.5; 16 1347.5 200.0 269509.0 89605.1 23.4 170.6 7.2; 17 1411.7 200.0 282339.8 90712.1 17.3 178.3 10.3; 18 1699.8 200.0 339968.8 93943.0 11.2 185.9 16.2; 19 2098.4 200.0 443258.0 96945.0 5.4 193.3 40.0	.00 13.20 13.78 14.53 15.82 17.06 18.25 19.25 19.84 20.35 20.70 20.81 20.97 21.23 21.99 22.60

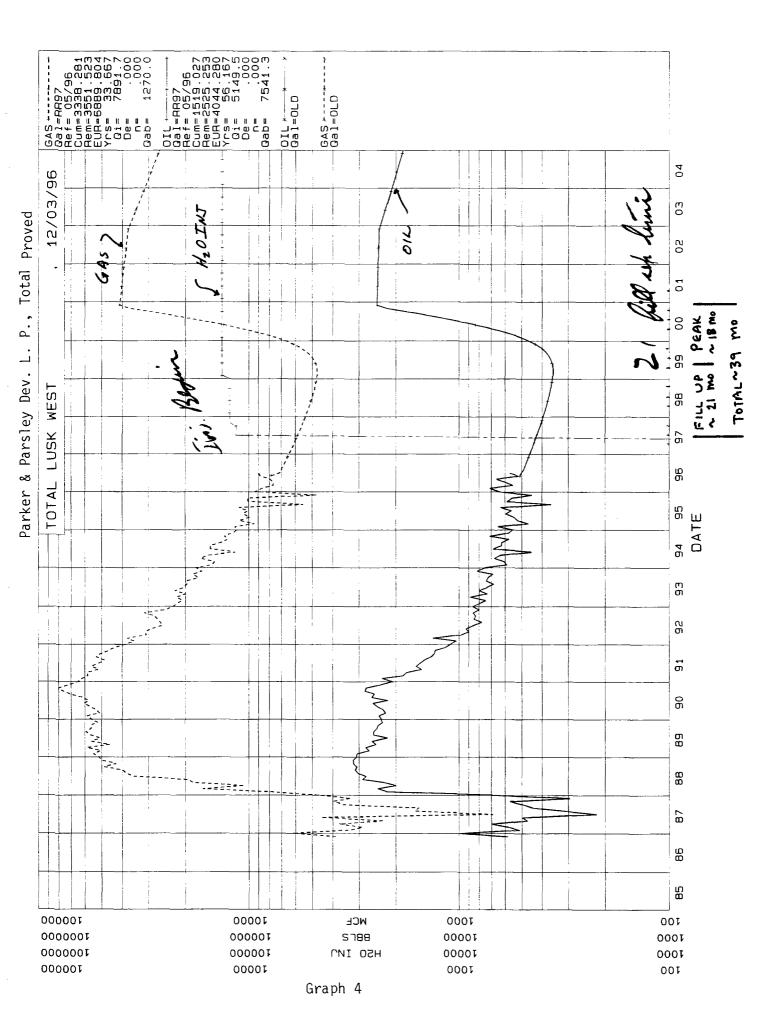
EST. PEAK PROD 10 24 mo (2:0 years

SUMMARY RESERVES AND ECONOMICS

AS OF 1/97

01/06/97 09:46:35 1USKWEST 1USK P.W. M\$ 10795.64 4960.98 3224.17 998.16	WET GAS PRICE */MCF) 1.15 1.15 1.15 1.15 1.15 1.15 1.15 1.	CUM DISC 10% CASHFLOW (M\$) -3160.085 -3206.743 -3206.743 -1968.318 -446.159 2207.819 446.159 2207.819 446.159 2207.819 446.159 7275.60 7275.60 7271.69 7271.69 7371.446 7371.446 7371.446
DATE : TIME : DBS : SET	NET NGL PRICE (\$/BBL) 00 00 00 00 00 00 00 00 00 00 00 00 0	CASHFLOW CASHFLOW (M\$) 3160 .085 -46.659 1198 .920 2414.477 2161 .660 1777.986 1389 .346 1389 .346 30.748 21.493 16.332 12.452 7341.446 30.934
6AS 3392.29 2420.53 5812.82	NET 01L PRICE 18.00 18.0	FUTURE NET CASHFLOW
01L 20.0 1556.50 1716.26 3272.76	MET GAS (MMCF) 54.521	CAPITAL EXPENSE 3506.038 84.644 .000 .000 .000 .000 .000 .000 .000
1/97 LS MMF 6. MB & MMF 7. MB & MMF 7. MB & MMF	MET MGL (MB)	ABDN & SALVAGE SALVAGE (M\$) 000
AS OF 1 42 GROSS WELLS 85 GROSS CUM. 85 GROSS RES. 20 GROSS ULT.	NET OIL 38.840 33.996 34.554 122.868 229.699 226.665 207.451 182.665 160.960 62.605 11.610 8.282 7.051 6.096 1343.844 25.705	NET OPER EXPENSE 453 098 588.963 576.176 575.176 549.376 489.176 480.176 480.176 480.176 480.176 480.176 556.082 96.014 96.014 76.807 557.024
YOUT YRS 4.42 UT YRS 4.82 ETURN, % 37.85 INVEST) 3.120	GROSS GAS GAS GAS 68.553 68.553 57.958 57.648 451.648 451.648 451.648 371.578 371.578 371.578 371.578 371.578 371.548 62.607 7.989 6.130 24.208 24.208 24.208	ADVAL TAX ADVAL TAX(M\$) 000 .000 .000 .000 .000 .000 .000
TOTAL PRVD ATERFLOOD B33 UNDISC PAYOUT YRS 000 RATE-OF-RETURN, % 753 DISC(NET/INVEST)	GROSS NGL (MB) (MB) (MO) (000 (000 (000 (000 (000 (000 (000 (0	SEV TAX SEV TAX 54.626 47.661 47.661 47.661 47.6716 326.518 326.518 326.717 292.175 256.052 224.702 86.916 15.713 11.348 9.583 8.228 11.348 9.583 8.228 11.348
DELAWARE, 6400' SD WA 6400' SD WA 18. 3477.5 11. % 100.00 11. % 79.77	GROSS 01L 48.673 43.301 153.973 43.301 153.973 287.848 287.048 287.048 287.048 291.708 78.454 14.58 13.296 10.379 8.836 78.454 14.58 11.379 10	TOTAL NET REVENUE (M\$)
LUSK WEST PROPOSED LIFE YR LIFE YR INIT W.	MO-YR MO-YR 12-98 12-98 12-98 12-05 12-05 12-05 12-06 12-08 12-09 12-08 12-07 12-08 12-07 12-08 12-07 12-08 12-07 12	A0-YR MO-YR 12-98 12-98 12-98 12-00 12-05 12-07 12-07 12-07 12-10 12-11 12-11 12-11 12-11 12-11 12-11

Figure 12



SUMMARY RESERVES AND ECONOMICS
AS OF 1/97

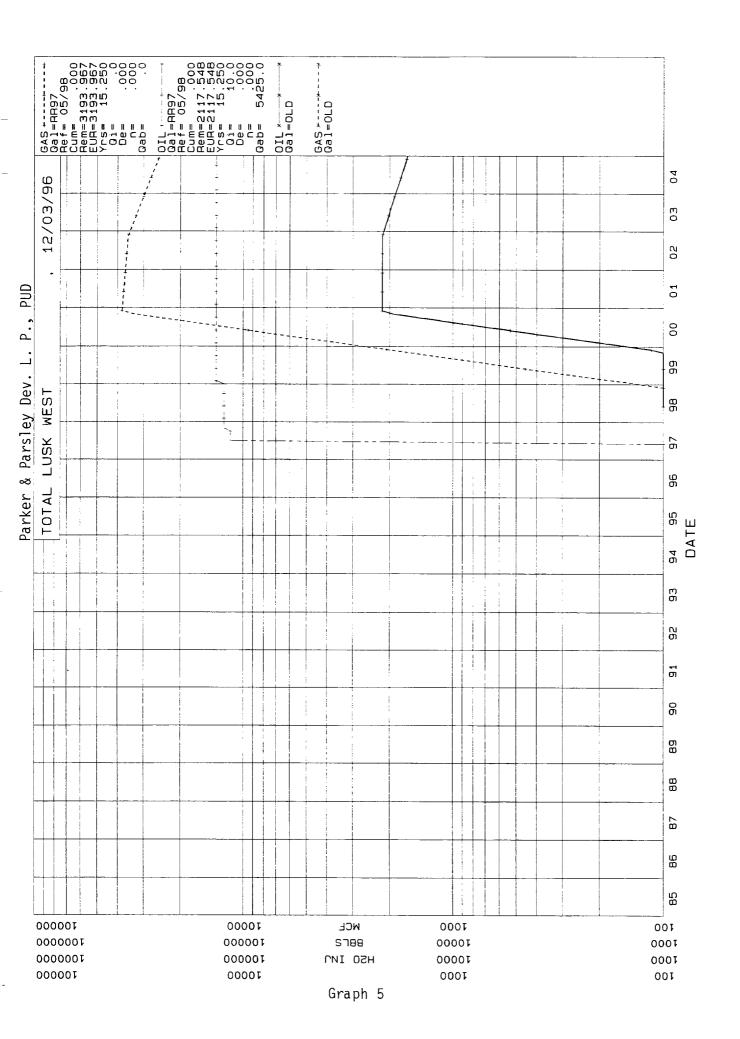
12/03/96 08:38:50 LUSKWEST LUSK P.W. M\$ 2493.74 1752.76 1752.76 1753.51 1244.53	NET GAS PRICE */MCF) (\$/MCF) 1.15 1.15 1.15 1.15 1.15 1.15 1.15 1.15	CUM DISC 10% CASHELOW (M\$) 473.829 828.585 1099.355 1308.410 1471.933 1704.166 1785.962 1850.829 1971.926 1972.547 1972.547 1972.824 2022.824 2022.824 2022.824 2053.758
DATE :: DBS :: SET :: P.W. % :: 5.00	NET NGL PRICE (\$/BBL) 000 000 000 000 000 000 000 000 000	DISC 10% CASHFLOW 473 829 354.756 209.055 163.523 163.523 102.763 81.764 81.867 51.097 51.097 51.097 51.097 51.097 51.097 51.097 51.097 51.097 51.097 51.097 51.097
GAS .0 3392.29 405.25 3797.53	NET OIL PRICE	FUTURE NET CASHFLOW (AS) (MS) (495.977 408.529 343.038 291.363 291.90.667 145.620 126.170 108.291 991.852 70.622 59.030 49.506 3016.698 165.407 3182.105
01L 20.0 1556.50 369.26	NET GAS (MACF)	CAPITAL EXPENSE (M\$) .000 .000 .000 .000 .000 .000 .00
1/97 S	NET NGC	ABDN & SALVAGE SALVAGE (M\$)
AS OF 1 GROSS WELLS O GROSS RES. O GROSS RES.	0 NET CONTROL OF CONTR	NET OPER EXPENSE 211.214 204.814 150.014 158.014 115.214 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014 96.014
(YOUT YRS .00 NUT YRS .00 EFTURN, % 100.00		ADVAL TAX ADVAL TAX (M\$)
PDP (TERFLOOD 333 UNDISC PAYOUT YRS 000 DISC PAYOUT YRS 000 RATE-OF-RETURN, % 73 PISC NET / INVEST)		TOTAL NET SEV TAX SEV TAX SEV TAX SEV TAX SEV TAX SEV CO. SEV
DELAWARE, 400' SD WA 400' SD WA 522.8	RROSS 001L (MB) (MB)	F ;
LUSK WEST PROPOSED 6 LIFE YRS DISC INV		MO-YR MO-YR 12-97 12-99 12-00 12-02 12-04 12-05 12-05 12-06 12-07 12

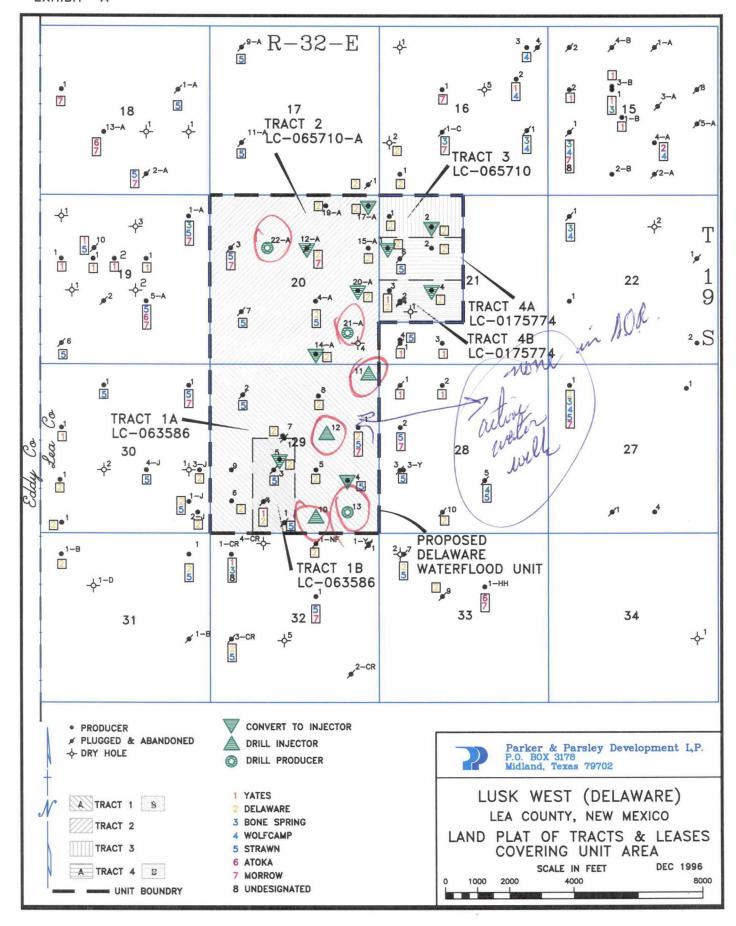
Figure 13

PARKER & PARSLEY PETROLEUM USA, INC.

SUMMARY RESERVES AND ECONOMICS

: 01/06/97 : 09:46:33 : LUSKWEST : LUSK P.W. M\$	3208.23 1688.66 -246.38 -1332.50	NET GAS PRICE .00 1.15 1.15 1.15 1.15 1.15	1.15	CUM DISC 10% CASHFLOW (M\$) -3633.913 -4035.328 -426.593 -3276.728 -1025.774 -1025.774 -1026.416 2681.639 3989.648 5008.127 5318.623	5318.623 5318.623 5318.623
IME SS	75.00 20.00 30.00 40.00	NET NGL PRICE (\$/881) 00 00 00 00 00 00 00 00 00 00 00 00 0	0000	201	5318.623 .000 5318.623
GAS	.00 .00 2015.29 2015.29	NET OIL PRICE (\$/881) 00 18.00	18.00 .00 18.00	FUTURE NET CASHFLOW (M\$) -3747.921 -464.857 -291.433 1415.039 3455.039 3455.039 3450.039 3450.039 744.909	12604.620 .000 12604.620
011	.0 .00 1347.00 1347.00	MET GAS GAS (MMCF) .000 .330 8.814 163.680 336.854 319.916 279.914 233.817 195.311 64.096	1602.792 .000 1602.792	CAPITAL EXPENSE 3506.038 84.644 000 .000 .000 .000 .000	3590.682 .000 3590.682
1/97	LS . MB & MMF . MB & MMF . MB & MMF	NET NGL NGL (MB)	000.	ABDN & SALVAGE (M\$) (M\$) (000 .000 .000 .000 .000 .000 .000	000.
AS OF	99 GROSS WELLS 60 GROSS CUM. 73 GROSS RES. 89 GROSS ULT.	NET 01L (MB) 211 4.988 27.238 208.274 207.900 191.104 167.790 147.319 50.061	1074.885 .000 1074.885	NET OPER EXPENSE (M\$) 241.883 384.148 384.162 384.162 384.162 384.162 384.162 384.162 384.162	3475.230 .000 3475.230
	YOUT YRS 4.89 HUT YRS 5.50 ETURN, % 28.73 INVEST) 2.529	GROSS GAS (MMCF) .000 491 11.083 205.805 423.547 423.547 402.249 351.952 293.992 245.576 80.592	2015.287 .000 2015.287	ADVAL TAX ADVAL TAX (M\$)000 .000 .000 .000 .000 .000 .000	000.
UD ERFLOOD	7 UNDISC PAYOUT YRS 10 DISC PAYOUT YRS 10 RATE-OF-RETURN, % 10 DISC(NET/INVEST)	GROSS NGL (MB) (000 (000 (000 (000 (000 (000 (000	000.	TOTAL NET SEV TAX (M\$) .000 7.185 139.318 297.112 295.043 269.875 206.117 69.827	1520.608 .000 1520.608
LUSK WEST DELAWARE, PUD PROPOSED 6400' SD WATERFLOOD INCREMENTAL SECONDARY WATERFLOOD ECONOMICS	YRS. 9.417 INV 3477.580 W.I. % .0000 N.I. % .0000	GROSS 01L .000 .000 .264 6.250 121.855 261.000 260.322 239.484 210.267 184.614 62.734	1347.000 .000 1347.000	TOTAL NET REVENUE .000 4.241 99.94 1938.518 4136.313 410.108 3761.781 3289.105 2876.357 974.803	21191.140 .000 21191.140
LUSK WES PROPOSEI INCREMEN WATERFLC	LIFE Y DISC I INIT L	-END- -A-XR- 	SUB REM TOT	MO-YR MO-YR 12-99 12-99 12-99 12-05 12-06 12-109 12-109	SUB REM TOT





Working Interest

١.

Fract(s) WI Owner	Sec	AC-FT	Primary FUR	1996 Prod	H.H.	Blend	Diff (high-low
2 PPDLP		36.5148%	28.7162%	32.0779%	32.6856%	%	
3,4A,4B PPDLP	21	22.1213%	27.3389%	44.3005%	27.2157%	30.2441%	
1 PPDLP	29	30.6815%	33.3231%		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%	2	

Participation By

-4.83%

90.7472%

90.1483%

94.1445%

89.3782%

89.3176%

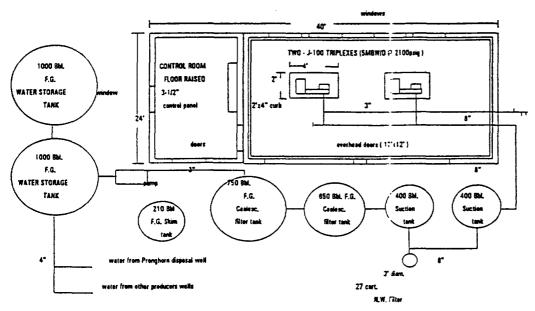
PPDLP Total

NEW MEXICO OIL
CONSERVATION DIVISION
Parker & Parsley Development 1..P.
EXHIBIT 20
Case Nos. 11,703 and 11,704
Date of Hearing - February 6, 1997

Witness #3

LUSK WATERFLOOD INJECTION FACILITY LEA COUNTY, NEW MEXICO

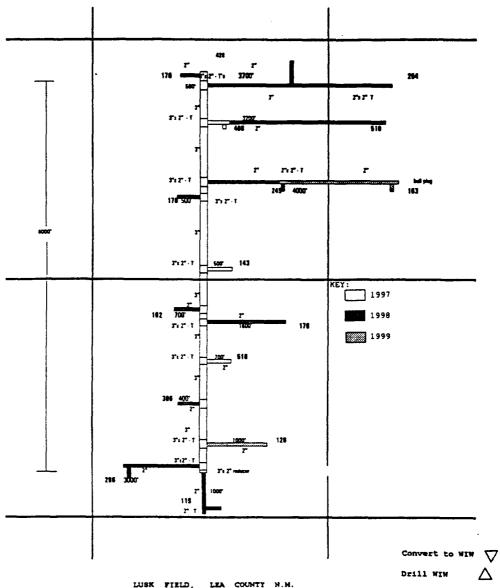
4



FACILITIES : Building / Pad
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. \$1,500 Suction Tank, 400 Bbls. \$1,500 Suction Tank
(100 HP, 2515 BPD @ 2100 psig.) Installation / Labor
Installation / Labor
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
Automation Controls Transfer Pumps 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
Transfer Pumps
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. \$ 30,000
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. \$30,000
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
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
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
F.G. Skim Tank, 210 Bbls. 1
27 cart, filter, 3' diam., N.W. 1 \$ 25,000ea. \$ 25,000 Fittings & Connections \$ 30,000
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
HISC.:
Dirtwork \$ 2,000
Telemetry System for pumps \$10,000
Labor S19 000
TOTAL: .\$30,000

LUSK INJECTION DESIGN



COST	LUSK FIZE	•	nty N.M. On 6 facilities			
HAIN TRUNKLINE	343450411	TENT BOOD STATE		,		
3" F.G. (3,000 paid)	\$9.5	0/ft.	8,000ft.	5	76,000	
3'x 2" - tens	\$310ea	11		5	3,410	
bull plugs	\$30ea	3		s	90	
2"x 2" - tees	\$173ea	7		5	1,211	
3"x 2" reducers						_
w/ bushings	\$50ea	3		5	150	
2"x 1" bushings	\$50ea.	13		5	650	
Trenching & Laying	\$1/ft	8,000ft		\$	8,000	. A land
			TOTAL :	\$	89,511	hebelie
INJECTORS						N. AU
2" F.G. (3,000 psig)	\$5.00/ft		14,90066	5	74.500	
2"x 45	\$150ea	4		s	300	Verely
2"x 1" bushing	\$ 50ea	16		s	900	and level
2" valves	\$620ea	16		\$	9,920	
2" valves	3620ea	12		\$	440	
2"x 45 elbows	5173ea	32		5	5,536	
2" tees	\$173ea	16		\$	2,769	
Flanges	\$186ea	14		5	2,604	
2"x 8" Nipples	\$ 34ea	1.9		3	612	•
Meter	\$700ea.	16		s	11,200	
Check Valve	\$300ea.	16		5	4,800	•
Bag Filter	\$700ea.	16		5	11,200	
Wheatly Wellhead						h ame
Injection Systems	\$2,000ea.	16		\$	32,000	NEW MEXICO OIL
Trenching & Laying	S1/ft	14,900ft		٤	-14.000	CONSERVATION DIVISION
			TOTAL /	3	155,580 .	SOURCE ALLON DIVISION
				_		arker & Parsley Development L.P.
						EXHIBIT 21 B
						Case Nos 11 702 11 704

Case Nos. 11,703 and 11,704 Date of Hearing - February 6, 1997

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 Z
Case Nos. 11,703 and 11,704
Date of Hearing - February 6, 1997

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<u>[tem</u>	Attachment
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

FOST OFFICE BOX YONG STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

APPLIC	ATION FOR AUTHORIZATION TO INJECT
I.	Purpose: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Dyes X no
11.	Operator: Parker & Parsley Development L.P.
	Address: P. O. Box 3178, Midland, TX 79702
	Contact party: J. Britt Hirth Phone: 915/571-1266
111.	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? \square yes \square no If yes, give the Division order number authorizing the project \square .
٧.	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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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:
XIII. XIV. * If the submi	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. Applicants must complete the "Proof of Notice" section on the reverse side of this for Certification I hereby certify that the information submitted with this application is true and conto the best of my knowledge and belief.

POSED INJECTION WELL DATA SHF

المراز للشعف والملقوا الميدار المياري والمرازي القرار

				& Parsiey	1		I FASE:	LUSK DEEP LINIT "A"			
OPERATOR:	•							LUSK DEEP UNIT "A"			
WELL NO	12		7 1	1660' FNL	& 2300' FE	<u>L</u>	SEC-20	T-19-S TOWNSHIP		R-32-E RANGE	
	CHEMATI			FUUTAGEL	OCATION						
					1. SUFACI	E CASING		WELL CONSTRUCTION	DATA NC		
							INCHES	CEMENTED WITH:		500	sx
13-3/8"			81	9'	TOC:	Surface		FEET DETERMINED BY:		Circulated	
					HOLE SIZE:		17-1/2	INCHES			
					2. INTERN	IIDIATE CA	ASING				
8-5/8"			4482) '	SIZE:	8-5/8	INCHES	CEMENTED WITH:		1650	sx
0-3/6 —			440.	•	TOC:	1350		FEET DETERMINED BY:	Т	emp. Survey	~~~
					HOLE SIZE:		11	INCHES			
					3. LONG S	STRING					
					SIZE:	5-1/2	INCHES	CEMENTED WITH:		800	sx
					TOC:	2710	1	FEET DETERMINED BY:	Т	emp. Survey	
					HOLE SIZE:			INCHES			
								6446 FEET TO:		6467 FEET	
	⊠ 5	1968	KR @				(PERFORAT	TED OR OPEN HOLE; IND			
		0.	370'		5. TOTAL	DEPTH:		6700 FEET			
		11891	ERFS 146'-64	467'	6. TUBING	3 SIZE		······································			
5-1 <i>/2</i> "		66	83'		SIZE:	2-7/8	INCHES	LINED WITH:	IPC 505 -	PLASTIC COATI	NG
					SET IN A:	ARROW	SET 1-XS,	PKR PACKER AT	:	6370 FEET	:
OTHER DA	TA										
		EW W	ELL D	RILLED FOR I	NJECTION?		YES	X NO			
u	NO FOR	\A#IAT	· Di IDI	POSE WAS TH	IE WELL OBIG	SINALLY DRIL	 LED2	PRODUC	ING OIL AL	ND GAS WELL	
	·			L 11/2/74. P&/					NO OIL A	ND ONG WELL	
_	·			FORMATION:		 	· · · · · · · · · · · · · · · · · · ·	TY CANYON)		· · · · · · · · · · · · · · · · · · ·	
C. N	IAME THE	FIELD	OR P	OOL (IF APPL	CABLE)			EST (DELAWARE)			
	1	ħ.		·	·	OTHER ZON		LL SUCH PERFORATED IN	TERVALS AN	ID GIVE PLUGGED	
				CEMENT OR				9'-8914' CIBP AT 8800' W/5,)708',
<u> </u>	IBP AT 10	640' W	/5, SX	, CMT/TOP, I	PERFS 11460'-	11581', CIBP	AT 11430',W/	5, SX, CMT/TOP, CIBP AT	12212' W/20,	SX, CMT/TOP	
E . 0	SIVE THE N	NAME(S) ANI	DEPTH(S) O	F ANY OVER	OR UNDERLY	ING OIL OR	GAS ZONES IN THIS AREA	;	······································	
<u>_1</u>	. YATES	260	0'-28	00'	WATKINS N.E. LUS		_	5. STRAWN 11000'-	11200'	LUSK STRAWN	1 OIL
					S. LUSK			6. ATOKA 11200'-11	400'	LUSK ATOKA (3AS
<u> 3</u>	2. DELAV	VARE	460	00'-7100'		DELAWAR	<u>E</u>	7. MORROW 11500	'-12000'	LUSK MORRO	
					LUSK DE	LAWARE	_			N.W. LUSK MORE	
3	B. BONE	SPRI	NG 8	8200'-8950'		BONE SP		_		***************************************	
					S. LUSK	BONE SPR	ĪNG	_	APDI (FORM C-108 SECTION III CATION FOR AUTH	ORIZATION
					E. LUSK	BONE SPR	ING	_	AFFLI	TO INJECT	
_	. WOLF	CAM	P 10	100'-10700'	E. LUSK V	WOLFCAM	POIL		,	Parker & Parsie Development LI WATER INJECTION	P.
					2 111010	A101 F 0 A F 4	O Oii	 -			

POSED INJECTION WELL DATA SHF

PERATO		Parker & Parsley Development L.P			LEASE:	LUSK DE	EP UNIT "A"		7-36-7-11.	
VELL NO	14	330' FSL 8	k 1980' FEL		SEC-20		T-19-S	R-3	32-E	
-	SCHEMATI	FOOTAGE L	OCATION		SECTION		TOWNSHIP	RAN	IGE	
189			4 011740	= 0.40M0		WELL CO	ONSTRUCTION	I DATA	•	
			1. SUFAC	E CASING					·	»
13-3/8"		843'	SIZE:	13-3/8	INCHES	CEME	NTED WITH:		1000	S
13-3/0			TOC:	Surface		FEET DETE	ERMINED BY:	Circ	culated	,
			HOLE SIZE:		17-1/2		INCHES			
				IIDIATE CA	•		_			
8-5/8"		4500'	SIZE:	8-5/8	INCHES	СЕМЕ	NTED WITH:		1700	S
0-3/0		1000	TOC:	Surface		FEET DETE	ERMINED BY:	Circ	culated	
			HOLE SIZE:		12-1/4		_INCHES			
			3. LONG S	STRING						
			SIZE:	5-1/2	INCHES	CEME	NTED WITH:		850	S
			TOC:	2320		FEET DETI	ERMINED BY:	Temp	o. Survey	
						=	.			
							FEET TO:	64	59 FEET	
		PKR @	4. INJECT		(PERFORAT	ED OR OPE	N HOLE ; INDICA		<u> </u>	
		6380'			"PE	ERFORA	IED.			
		E PERFS	5. TOTAL	DEPTH:		7200	FEET			
		# PERFS 6452-6459	6. TUBING	3 SIZE						
5-1/2		7199'	SIZE:	2-7/8	INCHES	LINED WIT	тн: <u>1</u> F	°C 505 - PLA	STIC COATING	3
			SET IN A:	ARROW S	ET 1-XS, I	PKR	PACKER AT:	638	80 FEET:	
OTHER DA	ATA									
A.	IS THIS A NE	WELL DRILLED FOR IN	JECTION?		YES	X	NO			
	IF NO, FOR	WHAT PURPOSE WAS TH	E WELL ORIG	SINALLY DRILL	ED?		PRODUCING	OIL AND G	SAS WELL	
В.	NAME THE I	NJECTION FORMATION:		6400' SAN	D (BRUSH	Y CANYO	ON)			
C.	NAME THE F	TIELD OR POOL (IF APPLI			LUSK WE	····				
D.	i,	ELL EVER BEEN PERFOR	•					EVALS AND GIV	/E PLUGGED	
		SACKS OF CEMENT OR			NO					
			· · · · · · · · · · · · · · · · · · ·							
E.	GIVE THE N	AME(S) AND DEPTH(S) OI	ANY OVER	OR UNDERLYII	NG OIL OR G	SAS ZONES	IN THIS AREA:		·	
	1. YATES	2600'-2800'	WATKINS			5. STRA	WN 11000'-11:	300, FA	SK STRAWN O)IL
			N.E. LUSK			6. ATOK	A 11200'-1140	o' LU	SK ATOKA GA	S
	2. DELAW	'ARE 4600'-7100'	W. LUSK	DELAWARE		7. MORR	ROW 11500'-12	5000, TA	SK MORROW	GAS
			LUSK DE					N.V	W. LUSK MORF	ROW GAS
	3. BONE S	SPRING 8200'-8950'		BONE SPR		-		<u> 14. 1</u>		· • • • • • • • • • • • • • • • • • • •
			S. LUSK E	BONE SPRII	V G	-		APPLICATI	FORM C-108 SECTION III ION FOR AUTHOR	RIZATION
	4 14 00	3444 ABABA		BONE SPRII		-		F	TO INJECT Parker & Parsiey	
	4. WOLF	CAMP 10100'-10700'	E. LUSK V	VOLFCAMP	OIL	_		D	Development L.P. ER INJECTION WE	ELL.
			C HICKI	AVOL FO ANAD	OIL	-				

POSED INJECTION WELL DATA SHE'

Parker & Parsley LEASE: LUSK DEEP UNIT "A" Development L.P. **OPERATOR:** R-32-E **SEC-20** 330' FNL & 330' FEL T-19-S WELL NO FOOTAGE LOCATION SECTION TOWNSHIP RANGE **SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 1000 SX SIZE: 882 13-3/8" FEET DETERMINED BY: Circulated TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 1450 8-5/8 INCHES CEMENTED WITH: SX 8-5/8 Circulated FEET DETERMINED BY: Surface TOC: 12-1/4 INCHES HOLE SIZE: 3. LONG STRING 800 5-1/2 INCHES SX CEMENTED WITH: SIZE CALCULATED TOC: 2790 FEET DETERMINED BY: 7-7/8 **INCHES** HOLE SIZE: 6476 6484 4. INJECTION INTERVAL FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 7224 **PERFS** 5. TOTAL DEPTH: 6476'-6484' 6. TUBING SIZE 7220 5-1/2 2-7/8 INCHES LINED WITH: **IPC 505 - PLASTIC COATING** ARROW SET 1-XS, PKR PACKER AT: 6400 SET IN A: FEET: **OTHER DATA** X 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 6400' SAND (BRUSHY CANYON) B. NAME THE INJECTION FORMATION: NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. 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 **FORM C-108** SECTION III S. LUSK BONE SPRING **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL **Development L.P.** WATER INJECTION WELL

E. LUSK WOLFCAMP OIL

TABULATION OF WELL DATA

POSED INJECTION WELL DATA SHE

and the second of the second of

OPERATOR:	:		& Parsley pment L.P			LEASE:	LUSK DEEP UNIT "A'			
		1->		k 2310' FSL	•	SEC-20	T-19-S	R	-32-F	
WELL NO	20	(1)	FOOTAGE L			SECTION	TOWNSHIP		ANGE	
S	CHEMAT	IC					WELL CONSTRUCTI	ON DATA		27,
				1. SUFAC	E CASING			7 7 7		
			70	SIZE:	13-3/8	INCHES	CEMENTED WITH:		900	sx
13-3/8"			372'	TOC:	Surface		FEET DETERMINED BY:	Ci	irculated	
		l sa		HOLE SIZE:		17-1/2	INCHES			
										•
				2. INTERN	NDIATE CA				0050	
8-5/8"		448	35'	SIZE:	8-5/8		-			sx
				TOC:	Surface		FEET DETERMINED BY:	Ci	irculated	
				HOLE SIZE:		12-1/4	INCHES			
				3. LONG	STRING					
				SIZE:	5-1/2	INCHES	CEMENTED WITH:		800	sx
				TOC:	3030)	FEET DETERMINED BY:	Ten	np. Survey	,
	KI					·			<u>-!</u>	
							INCHES			
			_	4. INJECT	ION INTER		6469 FEET TO: TED OR OPEN HOLE; IND		<u>487</u> FE	EET
	×	PKR @ 6400'	3			"P	ERFORATED"			
		PERFS 6469'-6		5. TOTAL	DEPTH:		7230 FEET			
	CIBP	118696	3800'	6. TUBING	3 SIZE					
5-1/2*		7230'		SIZE:	2-7/8	NCHES	LINED WITH:	IPC 505 - PL	ASTIC CO	ATING
				SET IN A:	ARROWS	SET 1-XS,	PKR PACKER AT	:6	6400 FI	EET:
OTHER DA	TA									
A. IS	S THIS A N	IEW WELL (DRILLED FOR II	NJECTION?	· · · · · · · · · · · · · · · · · · ·	_YES	Х NO			
H	F NO, FOR	WHAT PUF	RPOSE WAS TH	IE WELL ORIG	SINALLY DRIL	LED?	PRODUC	ING OIL AND	GAS WELL	No.
		· · · · · · · · · · · · · · · · · · ·								
В. М	IAME THE	INJECTION	FORMATION:		6400' SAI	ND (BRUSI	HY CANYON)			
C. N	IAME THE	FIELD OR F	POOL (IF APPLI	CABLE)		LUSK WE	EST (DELAWARE)			
D. H) NAS THE W	N ÆLL EVER	BEEN PERFOR	ATED IN ANY	OTHER ZON		LL SUCH PERFORATED IN			
1	DETAIL, I.E	E. SACKS O	F CEMENT OR	PLUG(S) USE	D.	PERFS 7	7050'-7154, SET CIBP	, WITH 4 SK.	CMT. ON	TOP AT 6800'
								*		· · · · · · · · · · · · · · · · · · ·
E . 6	SIVE THE N	NAME(S) AN	ID DEPTH(S) O	F ANY OVER	OR UNDERLY	ING OIL OR	GAS ZONES IN THIS AREA	: 	W	
· <u>1</u>	I. YATES	2600'-28	800'	WATKINS N.E. LUS		_	5. STRAWN 11000'-	11200' L	USK STRA	WN OIL
				S. LUSK		-	6. ATOKA 11200'-11	1400' L	USK ATOK	(A GAS
2	2. DELAV	VARE 46	00'-7100'		DELAWAR	<u>E</u>	7. MORROW 11500		.USK MORF	
				LUSK DE	LAWARE	_				MORROW GAS DRROW GAS
<u>:</u>	B. BONE	SPRING	8200'-8950'		BONE SP		_		FORM C-	
				S. LUSK	BONE SPR	ĪNG		APPLIC/	SECTION ATION FOR A	I III UTHORIZATION
4	4. WOLF	CAMP 1	0100'-10700'				_		TO INJE Parker & Pa Developmen	arsley
_				E. LUSK	WOLFCAM	P OIL	_	WA	ATER INJECTI	

POSED INJECTION WELL DATA SHE

OPERATOR:	SHACKELFORD	OIL CO.	LEAS	SE:	MOBIL F	EDERAL			
WELL NO	1 1650' FNL		_ SEC	-21		T-19-S TOWNSHIP		R-32-E	
SCHEMA		OCATION	SECT					RANGE	
		1. SUFACI	E CASING		WELL CO	ONSTRUCTIO)N DATA		
		SIZE:	13-3/8 IF	CHES	СЕМЕ	NTED WITH:		475	sx
13-3/8"	461'	TOC:	Surface		FEET DETE	ERMINED BY:		Circulated	
		HOLE SIZE:	17-1	/2		INCHES			
		2. INTERM	IIDIATE CASING	3					
8-5/8*	4257'	SIZE:	8-5/8 in	NCHES	СЕМЕ	NTED WITH:		860	sx
8-5/6	1 11821	TOC:	Surface		FEET DETE	ERMINED BY:		Circulated	
	PERFS 4874'-5040'	HOLE SIZE:	12-1	/4	·	INCHES			
	PROPOSED TO CMT SQZ OFF U. DEL.	3. LONG S	STRING						
		SIZE:	5-1/2 ii	NCHES	СЕМЕ	NTED WITH:		875	sx
		TOC:	4248		FEET DETI	ERMINED BY:	Т	emp. Survey	
		HOLE SIZE:		7-7/8		_INCHES			
		4. INJECT						6479 FEET	
X	PKR @ 6400'		(PERI		RFORA	N HOLE; INDIC TED"	ATE WHICH	н)	
	PERFS 6469'-6479'	5. TOTAL	DEPTH:		6700	FEET			
	6469'-6479'	6. TUBING	SIZE						
5-1 <i>1</i> 2**	6692'	SIZE:	2-7/8 INCH	ES	LINED WIT	TH:	IPC 505 -	PLASTIC COATING	i
		SET IN A:	ARROW SET 1	-XS, F	PKR	PACKER AT:		6400 FEET:	
OTHER DATA					v				
	A NEW WELL DRILLED FOR II		YES		x	NO			
IF NO, F	OR WHAT PURPOSE WAS TH	IE WELL ORIG	SINALLY DRILLED?			PRODUCII	1G OIL AN	ND GAS WELL	······································
B. NAME T	HE INJECTION FORMATION:		6400' SAND (B	DI ISH	V CANVO	````			
	HE FIELD OR POOL (IF APPLI	CARLE)			ST (DELA				HEL
	NELL EVER BEEN PERFOR	•				•	ERVALS AN	D GIVE PLUGGED	
	I.E. SACKS OF CEMENT OR								
5/92 PI	ERFS 4874'-4892' CIBP (@ 4940', CI	JRRENTLY PRO	DUCI	NG FROM	M U. DELAWA	RE PERF	S 4874'-4892'	
E. GIVE TH	E NAME(S) AND DEPTH(S) O	F ANY OVER (OR UNDERLYING O	IL OR G	AS ZONES	IN THIS AREA:			
<u>1. YAT</u>	ES 2600'-2800'	WATKINS N.E. LUSH			5. STRA	WN 11000'-1	1200'	LUSK STRAWN O	IL
		S. LUSK Y			6. ATOK	A 11200'-114	100,	LUSK ATOKA GAS	<u>}</u>
2. DEL	AWARE 4600'-7100'	W. LUSK LUSK DEI	DELAWARE AWARE		7. MORF	ROW 11500'-	12000'	LUSK MORROW O	
2 DON	IE SDRING 93001 90501							N. LUSK MORROV	
3. BUN	IE SPRING 8200'-8950'		BONE SPRING NE SPRING		-			FORM C-108	
			BONE SPRING				APPL	SECTION III ICATION FOR AUTHORI	ZATION
				•	•			TO INJECT Parker & Parsley	-
<u>4. WOI</u>	LF CAMP 10100'-10700'	E. LUSK V	VOLFCAMP OIL				1	Development L.P. WATER INJECTION WE	LL

POSED INJECTION WELL DATA SHEFT

OPERATO	R: SHA	CKELFORD	OIL CO.		LEASE:	AMOCO	FEDERAL				
WELL NO	2	990' FNL 8	1650' FWI	L	SEC-21		T-19-S		R-32-E		
-	SCHEMATIC	FOOTAGE L	OCATION		SECTION		TOWNSHIP		RANGE		
		•	4 SHEAC	E CASING		WELL C	ONSTRUCTI	ON DATA			
									and the second second		
13-3/8"		459'	SIZE:	13-3/8	INCHES	. СЕМЕ	ENTED WITH:		475		SX
13-3/6		*	TOC:	Surface		FEET DET	ERMINED BY:		Circulated	<u>i</u>	
			HOLE SIZE:		17-1/2	· · · · · · · · · · · · · · · · · · ·	INCHES				
			2. INTERN	MIDIATE CA	SING						
		4250'	SIZE:	8-5/8	INCHES	CEME	ENTED WITH:				sx
8-5/8"		425U	TOC:	Surface		FEET DET	ERMINED BY:		LED 3088' 8-8/ Circulated		
			HOLE SIZE:		12-1/4		INCHES				
			3. LONG S	STRING							
			SIZE:	5-1/2	INCHES	CEME	ENTED WITH:		2250)	sx
							NOTE: PUMI ERMINED BY:	PED 1575 SX	S CMT FROM	TOPSIDE	
						_					
							FEET TO:		6503	EEET	
	⊠ ⊠ PKI 642	R @ '0'	4. INJECT		(PERFORAT		EN HOLE ; IND			"FEEI	
	PRM 1 1998	RFS 9'-6503'	5. TOTAL	DEPTH:		6700	FEET				
	949	<i>3-</i> 0303	6. TUBING	3 SIZE							
5-1/	2" 665	0,	SIZE:	2-7/8	INCHES	LINED WI	TH:	IPC 505 -	PLASTIC (COATING	
			SET IN A:	ARROW S	SET 1-XS,	PKR	PACKER AT	:	6420	FEET:	
										_	
OTHER DA	ATA										
A.	IS THIS A NEW WEL	L DRILLED FOR IN	IJECTION?		YES	X	NO				
	IF NO, FOR WHAT P	PURPOSE WAS TH	E WELL ORIG	SINALLY DRILI	LED?		PRODUC	ING OIL A	ND GAS W	ELL	
,								77.00			
В.	NAME THE INJECTION	ON FORMATION:	 	6400' SAN	ID (BRUSH	IY CANYO	ON)				
C.	NAME THE FIELD O	R POOL (IF APPLIC	CABLE)		LUSK WE	ST (DEL/	AWARE)				
D.	HAS THE WELL EVE DETAIL, I.E. SACKS						ERFORATED IN 'W/CIBP @ 499				
	U. DELAWARE	PERFS 4856'-4	867' PLAN	TO SQZ O	FF U. DEL	AWARE (CONVERT TO	O WIW IN	6469'-6503'	PERFS	
E.	GIVE THE NAME(S)	AND DEPTH(S) OF	ANY OVER	OR UNDERLY	ING OIL OR (BAS ZONES	S IN THIS AREA:				
	1. YATES 2600'	-2800'	WATKINS		_	5. STRA	WN 11000'-	11200'	LUSK ST	RAWN OIL	
			N.E. LUSK		- -	6. ATOK	(A 11200'-11	400'	LUSK AT	OKA GAS	
	2. DELAWARE	4600'-7100'		DELAWAR	<u>E</u>	7. MORI	ROW 11500°	-12000'		RROW GAS	
			LUSK DE	LAWARE	-					K MORROW MORROW G	
	3. BONE SPRIN	G 8200'-8950'		BONE SPI		_			FORM		· · · · · · · · · · · · · · · · · · ·
			S. LUSK	BONE SPRI	NG			APDI	SECTIO		ON
			E. LUSK E	BONE SPRI	NG	-		OITE.	TO IN.	JECT	J.,
	4. WOLF CAMP	10100'-10700'							& Parker Developm WATER INJEC	ent L.P.	
				WOLFCAMI		_				F WELL DATA	

POSED INJECTION WELL DATA SHE

ala da Maria de Santo de Composições de Composições

OPERATO	or: SH	ACKELFORD	OIL CO.	L	EASE:	MOBIL FI	EDERAL	· · · · · · · · · · · · · · · · · · ·		
WELL NO	4) 1650' FWL	. & 2310 ' FS	SL S	SEC-21		T-19-S TOWNSHIP		R-32-E	
		FOOTAGE L	OCATION	s	ECTION		TOWNSHIP		RANGE	
=	SCHEMATIC		1. SUFACE	E CASING		WELL CO	ONSTRUCTI	ON DATA		
			SIZE:	13-3/8	INCHES	CEME	NTED WITH:	<u> </u>	475	sx
			TOC:	Surface		FEET DETE	ERMINED BY:		Circulated	
			HOLE SIZE:	1	7-1/2		_INCHES			
			2. INTERM	IDIATE CAS	SING					
13-3/8"		₫ 477'	•				NTED WITH:			sx
							ERMINED BY:		N/A	
			3. LONG S	TPING	IN/A		INCHES			
					INCHES	CEME	NTED WITH:		2620	sx
						FEET DET	ERMINED BY:		Circulated	
						NOTE:1" PI	LUG TO 1336' (CMT'D W/720	SXS TO CIRCULATE.	
	図 図	PKR @ 6400'	4. INJECT		PERFORAT		N HOLE; IND		6476 FEET H)	
		PERFS 3468'-6476'	5. TOTAL	DEPTH: _		7230	FEET			
	B31	CIBP @ 6550'	6. TUBING	SIZE						
5-1	1/2"	7193'	SIZE:	2-7/8 ı	NCHES	LINED WIT	TH:	IPC 505 -	PLASTIC COATING	3
			SET IN A:	ARROW SE	ET 1-XS, I	PKR	PACKER AT	:	6400 FEET:	
OTHER D	DATA						-			
A.		VELL DRILLED FOR IN	IJECTION?		YES	x	NO			
	IF NO, FOR WHA	T PURPOSE WAS TH	E WELL ORIG	INALLY DRILLE	ED?		PRODUC	NG OIL AI	ND GAS WELL	
В.	NAME THE INJEC	CTION FORMATION:		6400' SANE) (BRUSH	Y CANYO	ON)			·····
C.	NAME THE FIELD	O OR POOL (IF APPLIC	CABLE)	<u> </u>	LUSK WE	ST (DELA	WARE)	 		
D.		EVER BEEN PERFORA CKS OF CEMENT OR F			S)? LIST AL NO	L SUCH PE	RFORATED IN	TERVALS AN	ND GIVE PLUGGED	
	•				<u> </u>					
E.	1. YATES 26	(S) AND DEPTH(S) OF	WATKINS		IG OIL OR G				A LIGHT OFFI AND A	
	1. TATES 200	00-2000	N.E. LUSK	YATES			WN 11000'- A 11200'-11		LUSK STRAWN C	
	2. DELAWARI	E 4600'-7100'		DELAWARE			ROW 11500		LUSK MORROW	
			LUSK DEL	·					N.W. LUSK MORE	ROW GAS
	3. BONE SPR	ING 8200'-8950'		BONE SPR	ING	-				
			S. LUSK E	BONE SPRING BONE SPRIN		-		APPL	FORM C-108 SECTION III ICATION FOR AUTHOR TO INJECT	RIZATION
	4. WOLF CAN	MP 10100'-10700'		LFCAMP OI					Parker & Parsley Development L.P. WATER INJECTION WE	ELL.
		4		MOLECAND		-				

POSED INJECTION WELL DATA SHEFT

		Parker & Parsi	∌y						
PERAT	OR:	Development L	P.		LEASE:	SOUTHER	RN CAILFOR	NIA FEDERAL	
'ELL	4	1650' F	SL & 990' FE	EL	SEC-29		T-19-S	R-32-E	
-		FOOTAG	E LOCATION		SECTION		TOWNSHIP	RANGE	
:	SCHEMATIC	C				WELL CO	NSTRUCTIO	ON DATA	
,			1. SUFAC	E CASING			. •		
				40.00				775	
			SIZE:	13-3/8	INCHES	. CEMEN	ITED WITH: _	775	SX
13-3/8"		877'	TOC:	Surface		FEET DETE	RMINED BY: _	Circulated	
			VOLE 0175		17-1/2		INCHES		
			HULE SIZE:		17-172				
			2. INTERN	IIDIATE CA	ASING				
			SIZE:	8-5/8	INCHES	CEMEN	ITED WITH:	2660	sx
		3836'	SIEE.			-			
8-5/8	— 1281 I	3636	TOC:	Surface		FEET DETE	RMINED BY: _	Circulated	
			HOLE SIZE:		12-1/4		INCHES		
				-		•	_		
			3. LONG	STRING					
			SIZE:	4-1/2	INCHES	CEME	NTED WITH:	600	sx
				3400		eeer nere	DMINED BY: (SQZ HOLE @ 3400' W/35	eye cut
			TOC:	3400	,	- FEET DETE	KMINED BT.	SQZ HOLE @ 3400 VW33	SAG CIWIT
			HOLE SIZE:		7-7/8	J	INCHES		
	\boxtimes	PKR @ 6360'	4 INJECT	ION INTER	RVAI	6430	FEET TO:	6450 FEET	
		PROPOSED	4. INOLO	TON INTE				CATE WHICH)	
		DELAWARE PERFS @			"PI	ERFORAT	red"		
	CIB	CIBP @	5. TOTAL	DEPTH:		11449	_FEET		
		6600,	6. TUBING	3 SIZE					
	II	PERFS 11324'-11368'	0.75	0.7/0		LANCO MET	11.	IPC 505 - PLASTIC C	CATING
	1-1/2"		SIZE:	2-7/8	_INCHES	LINED WITI	n:	IFC 505 - FLASTIC C	OATING
4	I-1/2"	11410	SET IN A:	ARROW	SET 1-XS,	PKR	PACKER AT	6360 FEET:	
		·							
OTHER	DATA								1. 1
	IC THIC A MI	EVANAGELL DOLLLED FO	D IN IECTIONS	•	YES	X	NO		
Α.	12 IUI2 VII	EW WELL DRILLED FO	KINJECTION		- 150		_140		
	IF NO, FOR	WHAT PURPOSE WAS	THE WELL OF	RIGINALLY D	RILLED?	•	PRODUCI	NG OIL AND GAS W	ELL
В.	NAME THE	INJECTION FORMATIO	AI.	6400' 54	ND (BRUSI	4V CANVO	NI)		
u.	NAME IIIE	MALO HON TONIMATIC		0400 070					
C.	NAME THE I	FIELD OR POOL (IF AF	PLICABLE)	•	LUSK WE	ST (DELA	WARE)		
D.		ELL EVER BEEN PERF . SACKS OF CEMENT :			ONE(S)? LIST			NTERVALS AND GIVE PL	UGGED ROM STRAWN PERFS
							· · · · · · · · · · · · · · · · · · ·		······································
	11324-11	368', PLAN TO SE	I CIBP @ 6	500° W/5SX	(S CMT ON	TOP & PE	RF DELAW	ARE @ 6430'-50' CO	NVERT TO WIW WELL.
E.	GIVE THE N	IAME(S) AND DEPTH(S) OF ANY OVE	R OR UNDER	RLYING OIL O	R GAS ZONE	S IN THIS ARE	A :	
	1. YATES	2600'-2800'	WATKINS	YATES		5. STRA	WN 11000'-	112 LUSK STRAWN	OIL
			N.E. LUS		-	C ATOK	A 44000L44	40 / 110// 470// 4	
			S. LUSK	IVIES		o. ATOK	n 11200'-11	40 LUSK ATOKA GA	49
	2. DELAW	/ARE 4600'-7100'		DELAWAR	RE	7. MORR	OW 11500'	12 LUSK MORROW	
			LUSK DE	LAWARE	_			N.W. LUSK MOR	
	3. BONE	SPRING 8200'-895				_			M 1-1
				NE SPRIN BONE SPR				FORM C-10 Section i	
				BONE SPR		_		APPLICATION FOR AUT	THORIZATION
	4. WOLF	CAMP 10100'-107) HISK W) FCAMP	Oll	-		Parker & Pare	iley
			E. LUSK	WOLFCAM	ĪP OIL			Development WATER INJECTIO	
			e meki	WINI ECVE	ווט טוו				

OSED INJECTION WELL DATA SHF

OPERATOR:		arker & Parsley evelopment L.P	•		LEASE:	S. A. BOV	WMAN FEDE	RAL		
WELL NO	5	2310' FSL	& 2160' FV	VL	SEC-29		T-19-S		R-32-E	
_		FOOTAGE L	OCATION		SECTION		TOWNSHIP		RANGE	
	CHEMATIC		1. SUFAC	E CASING		WELL CO	ONSTRUCTI	ON DATA	r'	
		895'	SIZE:	11-3/4	INCHES	S CEMEI	NTED WITH:	•	1000	sx
11-3/4"			TOC:	Surface		FEET DETE	RMINED BY:		Circulated	
			HOLE SIZE:		14-3/4		_INCHES			
			2. INTERN	MIDIATE CA	SING					
8-5/8"		3796'	SIZE:	8-5/8	INCHES	S CEME	NTED WITH:		1400	sx
• • •			TOC:	Surface		_FEET DETE	ERMINED BY:		Circulated	
			HOLE SIZE:		11		NCHES			
			3. LONG S	STRING						
			SIZE:	5-1/2	INCHE	S CEME	NTED WITH:		1610	sx
			TOC:	Surface		_FEET DETE	ERMINED BY:		Circulated	·
			HOLE SIZE:		7-7/8	3	INCHES			
	× ×	PKR @ 6360'	4. INJECT	TION INTER	(PERFORA		FEET TO: IN HOLE; IND TED"			
		PERFS 6431'-6446'	5. TOTAL	DEPTH:		6850	FEET			
		0431-0440	6. TUBING	3 SIZE						
5-1/2"		6850'	SIZE:	2-7/8	INCHES	LINED WIT	H:	IPC 505 -	PLASTIC COATIN	1G
			SET IN A:	ARROWS	SET 1-XS,	PKR	PACKER AT		6360 FEET:	
OTHER DAT	'A									
A. IS	THIS A NEW	WELL DRILLED FOR IN	JECTION?		YE\$	X	NO			
IF	NO, FOR WH	IAT PURPOSE WAS TH	E WELL ORIG	SINALLY DRIL	LED?		PRODUC	ING OIL AI	ND GAS WELL	
<u> </u>	AME THE INJE	ECTION FORMATION:		6400' SAN	ID (BRUSI	HY CANYO	N)			
C. N	AME THE FIEL	LD OR POOL (IF APPLIC	CABLE)	1200	LUSK W	ST (DELA	WARE)			
		EVER BEEN PERFORACKS OF CEMENT OR I			E(S)? LIST A NONE	LL SUCH PE	RFORATED IN	TERVALS AN	ID GIVE PLUGGED	
E . Gl	IVE THE NAM	E(S) AND DEPTH(S) OF	ANY OVER	OR UNDERLY	ING OIL OR	GAS ZONES	IN THIS AREA			
1.	YATES 26	600'-2800'	WATKINS		-	5. STRAN	WN 11000'-	11200'	LUSK STRAWN	OIL
			N.E. LUSI S. LUSK		- -	6. ATOK	A 11200'-11	400'	LUSK ATOKA G	AS
2	. DELAWAR	RE 4600'-7100'	W. LUSK	DELAWAR LAWARE	Ē	7. MORR	OW 11500	-12000'	LUSK MORROV	
2	BUNE SD	RING 8200'-8950'		BONE SPI	- DING				N. LUSK MORR	
<u>J.</u>	. DOIL OF	MITO 0200-0300	LUSK BO	NE SPRING BONE SPR	ing	_			FORM C-108 SECTION III	
			E. LUSK	BONE SPR	ING	-		APPI	LICATION FOR AUTHO TO INJECT	
<u>4</u> .	. WOLF CA	MP 10100'-10700'	E. LUSK \	NOLFCAMI	P OIL				Parker & Parsley Development L.F WATER INJECTION \	.

POSED INJECTION WELL DATA SHF

OPERATOR:	Parke Devel	r & Parsley opment L.P.			LEASE:	SOUTHERN C	CAILFORI	NIA FEDE	RAL	
	6			•						
WELL NO	0 +	FOOTAGE LO			SECTION	T-1	WNSHIP		RANGE	,
SC	HEMATIC					WELL CONST	TRUCTIO	N DATA		
			1. SUFACI	E CASING			i. J	1		
		881'	SIZE:	13-3/8	INCHES	CEMENTED	WITH:		735	sx
13-3/8"			тос:	Surface		FEET DETERMIN	IED BY:		Circulated	
			HOLE SIZE:		17-1/2	INC	HES			
			2. INTERN	IIDIATE CA	ASING					
8-5/8"	4	498'	SIZE:	8-5/8	INCHES	CEMENTED	WITH: _		2600	sx
			TOC:	Surface		FEET DETERMIN	NED BY:		Circulated	
			HOLE SIZE:		12-1/4	INC	CHES			
			3. LONG S	STRING						
			SIZE:	5-1/2	INCHES	CEMENTED	WITH: _		940	sx
	4		TOC:	4200)	_FEET DETERMIN	NED BY: _	C/	ALCULATED	
			HOLE SIZE:		7-7/8	INC	CHES			
	☑ ☑ PKR 6320		4. INJECT		(PERFORA	6389 FEI TED OR OPEN HO ERFORATED	LE; INDIC			ΕT
			5. TOTAL	DEPTH:		7200 FE	ET			
	PERI 6389	-6399 -	6. TUBING	3 SIZE						
5-1/2*	7145		SIZE:	2-7/8	INCHES	LINED WITH:		IPC 505 - [PLASTIC COA	TING
			SET IN A:	ARROW	SET 1-XS,	PKRPA	CKER AT:		6320 FE	ET:
OTHER DAT	•									
OTHER DAT			· · · · · · · · · · · · · · · · · · ·		VEO	V 110				
A. IS	THIS A NEW WELL	L DRILLED FOR IN	IJECTION?		_YES	XNC				
IF	NO, FOR WHAT PI	URPOSE WAS TH	É WELL ORIO	SINALLY DRIL	LED?	Pf	RODUCIN	1G OIL AN	ID GAS WELL	
	ME THE INTERTO	N FORMATION		6400! 641	ND (DDIIC)	IV CANVON			· · · · · · · · · · · · · · · · · · ·	
	ME THE INJECTIO			0400 SAI		HY CANYON)	DC)			
C. NA	ME THE FIELD OF	R POOL (IF APPLIC	CABLE)		LUSK W	EST (DELAWAF	KE)			
	AS THE WELL EVEI ETAIL, I.E. SACKS				NO	LL SUCH PERFOR	RATED INT	ERVALS ANI	D GIVE PLUGGE	D
-									·	
	VE THE NAME(S)				AING OIL OR		•	 		
<u>1.</u>	YATES 2600'-	2800	N.E. LUS	K YATES	- 	5. STRAWN			LUSK STRAI	
			S. LUSK	YAIES		6. ATOKA 1	1200'-114	100,	LUSK ATOK	A GAS
2.	DELAWARE 4	1600'-7100'		DELAWAR LAWARE	<u>E</u>	7. MORROW	11500'-	12000'	LUSK MORR	OW GAS MORROW GAS
3.	BONE SPRING	3 8200'-8950'	WATKINS	S BONE SP	RING				N. LUSK MO	RROW GAS
*****			LUSK BO	NE SPRIN	G				FORM C-1 SECTION	
				BONE SPR BONE SPR				APPLI	CATION FOR AU	THORIZATION
4.	WOLF CAMP	10100'-10700'							TO INJEC Parker & Par Development	rsley
				WOLFCAM				١	WATER INJECTION	

POSED INJECTION WELL DATA SHE

and the second control of the second control

OPERATOR:				& Par pmen	-	•		LEASE:	SOUTH	HERN CAILFO	RNIA FED	ERAL	
WELL NO	10		. \	1980	' FNL	& 1980' FE	EL.	SEC-29		T-19-S		R-32-E	
						OCATION		SECTION		TOWNSHIP		RANGE	
SC	HEMAT	C							WELL	CONSTRUCT	ION DATA	4	
						1. SUFACI	E CASING						
13-3/8"			8	50'		SIZE:	13-3/8	INCHES	_ CEM	MENTED WITH:		675	sx
13-3/6			-			TOC:	Surface		FEET DE	ETERMINED BY:		Circulated	
						HOLE SIZE:		17-1/2		INCHES			
						2. INTERN	NDIATE CA	ASING					
B-5/8"			4050	0'		SIZE:	8-5/8	INCHES	CE	MENTED WITH:		775	sx
						TOC:	Surface		FEET DE	ETERMINED BY:		Circulated	
						HOLE SIZE:		11		INCHES			
						3. LONG S	STRING						
						SIZE:	5-1/2	INCHES	CE!	MENTED WITH:		1265	sx
						TOC:	Surface		FEET DI	ETERMINED BY:		Circulated	
						HOLE SIZE:		7-7/8		INCHES			
	X Z		KR @ 360'	:		4. INJECT	ION INTER	(PERFORAT	ED OR O	5 FEET TO: PEN HOLE; IND RATED"		6450 F	EET
		122	ERFS 125'-64			5. TOTAL	DEPTH:		7200	FEET			
		64		100		6. TUBING	3 SIZE						
5-1/2"		72	500,			SIZE:	2-7/8	INCHES	LINED V	MTH:	IPC 505	- PLASTIC CO	ATING
				المراء مضاوفت ر	يد ومنسة خارمية غامية	-SET IN A:	ARROW	SET 1-XS,	PKR	PACKER A	Т:	6360 F	EET:
OTHER DAT	'A		A STATE OF THE PARTY OF THE PAR	. al Comm	1		1	* ***					
		, _f	+		l.	<i>t</i> :	` ∄						
A. IS	THIS A NE	EW W	ELL' D	RILLED	FOR IN	IJECTION?	<u> </u>	_YES		NO (F			
(F	NO, FOR	WHAT	PUR	POSE V	VAS TH	E.WELL ORIG	GINALLY DRIE	LED?		N/A) —		
н. В. N	AME THE I	INJEC	TION	FORMA	TION:		6400' SAI	ND (BRUSH	Y CAN	YON)			
	AME THE I					CABLE)				LAWARE)			
	,	,		·		·	OTHER ZON				MTEDVALS (ND GIVE BLUGG	
						PLUG(S) USE		NO NO	LL SUCH	PERFORATEDII	NIERVALSA	AND GIVE PLUGG	=U
_									 				
E. G	VE THE N	IAME(S) ANI	D DEPT	H(S) OF	ANY OVER	OR UNDERLY	ING OIL OR	GAS ZON	ES IN THIS AREA	A:		
<u>1</u> .	YATES	260	0'-28	00'	·	WATKINS N.E. LUSI			5. STF	RAWN 11000	'-11200'	LUSK STRA	WN OIL
						S. LUSK		-	6. ATC	OKA 11200'-1	1400'	LUSK ATO	(A GAS
2	DELAW	VARE	460	00'-710	0'	W. LUSK LUSK DE	DELAWAR LAWARE	<u>RE</u>	7. MO	RROW 11500	D'-12000'	LUSK MOR	ROW GAS MORROW GAS
•	DOM:	one.	NO -	00001	2052			-					ORROW GAS
<u>3</u>	. BONE S	SPRI	NG	o∠UU'-{	2900,		BONE SP		_			FORM C	-108
							BONE SPR				API	SECTION PLICATION FOR A TO INJE	UTHORIZATION
4	. WOLF	CAM	P 10	100'-1	0700'	LUSK WC			-			Parker & P Developme	arsiey nt L.P.
							WOLFCAM					WATER INJECT	ION WELL

POSED INJECTION WELL DATA SHE

OPERATOR:		arker & Parsley evelopment L.P	•	LEASE:	SOUTHERN CAILFORN	IA FEDERAL
WELL NO	11	660' FNL 8	660' FEL	SEC-29	T-19-S	R-32-E
		FOOTAGE L		SECTION	TOWNSHIP	RANGE
SCHI	EMATIC				WELL CONSTRUCTION	N DATA
			1. SUFAC	E CASING		
		950	SIZE:	13-3/8 INCHE	S CEMENTED WITH:	675 sx
13-3/8"		030	T00	Surface	FEET DETERMINED BY:	Circulated
						Oirculated
			HOLE SIZE:	17-1/2	INCHES	
			2. INTERN	MIDIATE CASING		
			SIZE:	8-5/8 інсне	S CEMENTED WITH:	775 sx
8-5/8"		4050'	TOC:	Surface	FEET DETERMINED BY:	Circulated
						
			HOLE SIZE:	11	INCHES	
			3. LONG	STRING		
			SIZE:	5-1/2 INCHE	S CEMENTED WITH:	1265 sx
			TOC:	Surface	FEET DETERMINED BY:	Circulated
				7-7/	_	
		•	4. INJECT		6425 FEET TO:	
		PKR @ 6360'		··F	PERFORATED"	
		PERFS	5. TOTAL	DEPTH:	7200 FEET	
		6425'-6450'	6. TUBING	G SIZE		
5-1/2*		7200'			I I I I I I I I I I I I I I I I I I I	PC 505 - PLASTIC COATING
0-172			SIZE:	2-7/8 INCHES	LINED WITH: IF	C 505 - PLASTIC COATING
		ė	SET IN A:	ARROW SET 1-XS	PACKER AT:	6360 FEET:
OTHER DATA		-1.	U			
OTHER DATA		N_{c}	, · · · · · · · · · · · · · · · · · · ·	F		
A. IS TH	IIS A NEW	WELL DRILLED FOR IN	IJECTION?	X YES	NO	
IF NO), FOR WI	HAT PURPOSE WAS TH	E WELL ORIG	SINALLY DRILLED?	N/A	
B. NAM	E THE INJ	ECTION FORMATION:		6400' SAND (BRUS	SHY CANYON)	
C. NAMI	F THE FIE	LD OR POOL (IF APPLIC	CABLE)	LUSK W	/EST (DELAWARE)	
	· ·	·	•		ALL SUCH PERFORATED INTE	PLATE AND CIVE BUTCOED
		ACKS OF CEMENT OR I		1.1.	ALL SUCH PERFURATED INTE	RVALS AND GIVE PLUGGED
E. GIVE	THE NAM	ME(S) AND DEPTH(S) OF	ANY OVER	OR UNDERLYING OIL OF	R GAS ZONES IN THIS AREA:	
		600'-2800'	WATKINS		 5. STRAWN 11000'-11	200' LUSK STRAWN OIL
	AILO L	300-2000	N.E. LUS	K YATES		
			S. LUSK	YATES	6. ATOKA 11200'-1140	0' LUSK ATOKA GAS
2. D	ELAWA	RE 4600'-7100'	W. LUSK LUSK DE	DELAWARE	7. MORROW 11500'-1:	2000' LUSK MORROW GAS N.W. LUSK MORROW GAS
*	ONE 05	IDINO ADOS COTO				N. USK MORROW GAS
3. B	UNE SP	RING 8200'-8950'		B BONE SPRING INE SPRING	_	FORM C-108
				BONE SPRING BONE SPRING		SECTION III APPLICATION FOR AUTHORIZATION
<i>4</i> 18	UOLE CA	MP 10100'-10700'		OLFCAMP OIL		TO INJECT Parker & Parsley
4. V	TOLI OF	10 100 - 10700	E. LUSK	WOLFCAMP OIL	<u> </u>	Development L.P. WATER INJECTION WELL
				······································		

OSED INJECTION WELL DATA SHEFT

 $(x,y) = (x_0, x_1, \dots, x_n)$, where $(x_0, y_1, \dots, y_n) \in \mathbb{R}^n$, where $(x_0, y_1, \dots, y_n) \in \mathbb{R}^n$

OPERATOR:	Parke Devel	r & Parsley opment L.P	•	LEASE:	SOUTHERN CAILFOR	RNIA FEDERAL
WELL NO	12) 1980' FEL	& 660' FSL	SEC-29	T-19-S	R-32-E
	HEMATIC	FOOTAGE L	OCATION	SECTION	TOWNSHIP	RANGE
			1. SUFAC	E CASING	WELL CONSTRUCTION	ON DATA
		850'	SIZE:	13-3/8 INCH	ES CEMENTED WITH:	675 sx
13-3/8"		555	TOC:	Surface	FEET DETERMINED BY:	Circulated
			HOLE SIZE:	17-1/2	INCHES	
			2. INTERN	MIDIATE CASING		
		050'	SIZE:	8-5/8 інсн	ES CEMENTED WITH:	775 sx
8-5/8"		050	TOC:	Surface	FEET DETERMINED BY:	Circulated
			HOLE SIZE:	11	INCHES	
			3. LONG	STRING		
			SIZE:	5-1/2 INCH	ES CEMENTED WITH:	1265 sx
			TOC:	Surface	FEET DETERMINED BY:	Circulated
			HOLE SIZE:	7-7	78 INCHES	
	⊠ ⊠ PKR	•	4. INJECT	(PERFOR	6425 FEET TO: ATED OR OPEN HOLE; INDI PERFORATED"	
	6360 PERI 6425	FS '-6450'	5. TOTAL	DEPTH:	7200 FEET	
			6. TUBING	G SIZE		
5-1/2"	7200	·	SIZE:	2-7/8 INCHES	LINED WITH:	IPC 505 - PLASTIC COATING
			SET IN A:	ARROW SET 1-XS	, PKR PACKER AT:	6360 FEET:
OTHER DAT	Ά				وسد د در	
A. IS	THIS A NEW WELL	. DRILLED FOR IN	IJECTION?	X YES	NO	
IF	NO, FOR WHAT PI	URPOSE WAS TH	E WELL ORIG	SINALLY DRILLED?	N/A	in in hickory
— В. N	AME THE INJECTIO	ON FORMATION:		6400' SAND (BRU	SHY CANYON)	
C. N	AME THE FIELD OF	R POOL (IF APPLI	CABLE)		VEST (DELAWARE)	
	AS THE WELL EVE ETAIL, I.E. SACKS				ALL SUCH PERFORATED IN	FERVALS AND GIVE PLUGGED
E . Gi	IVE THE NAME(S)	AND DEPTH(S) OF	ANY OVER	OR UNDERLYING OIL O	R GAS ZONES IN THIS AREA:	
	YATES 2600'-		WATKINS		5. STRAWN 11000'-	
			N.E. LUSK		6. ATOKA 11200'-11	
2	DELAWARE 4	600'-7100'		DELAWARE	7. MORROW 11500'	-12000' LUSK MORROW GAS
2	. BONE SPRING	3 8200'-80 <u>5</u> 0'		BONE SPRING		N.W. LUSK MORROW GAS N. LUSK MORROW GAS
<u> </u>	DONE SERING	0200-0900	LUSK BO	NE SPRING		FORM C-108 SECTION III
				BONE SPRING BONE SPRING		APPLICATION FOR AUTHORIZATION TO INJECT
<u>4</u>	. WOLF CAMP	10100'-10700'	E. LUSK	WOLFCAMP OIL		Parker & Parsley Development L.P. WATER INJECTION WELL TABULATION OF WELL DATA
			ر طار ۱۱۰ ۰	out or a straight till		

MAP OF AREA
SECTION V

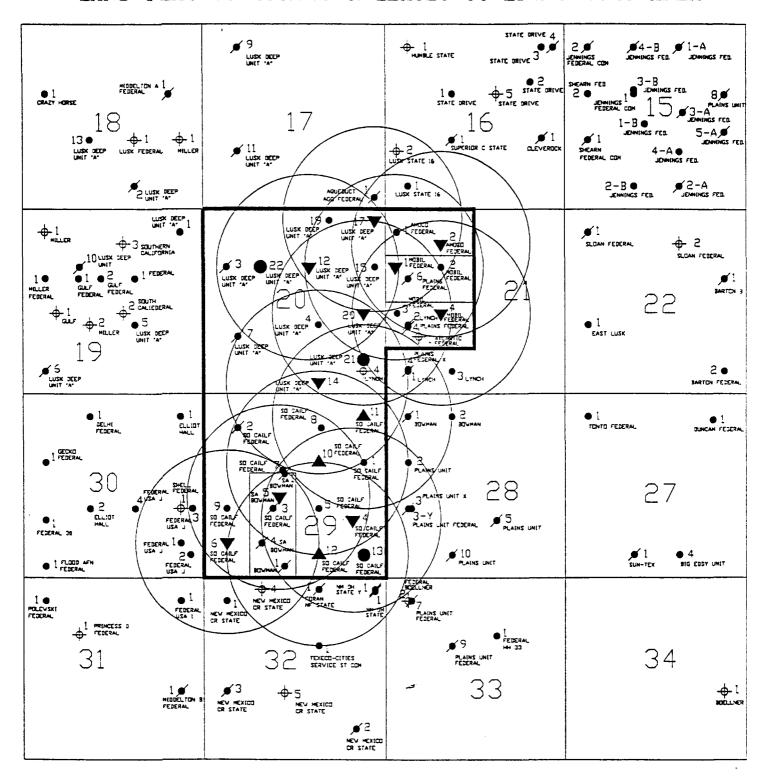
LEA COUNTY, NEW MEXICO

LAND PLAT OF TRACTS & LEASES COVERING UNIT AREA

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91	4"A	1272					Armoda Ti				
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ia j	Thus Lanes	COSTE SAME PROPERTY	ا 🚺 نب	(34,111)		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	X 30r	Controlly	12.412		
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		rates is bring and a grant of the control of the co				CONTROL OF THE PROPERTY OF THE	5 (lord) INC 315E F3Ga	n izālis l	Tic.	*	
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**31	Simplify Simpli	The second secon				Gir and Girage G	5 (ind) inC 315C F3da er	H - 1 - 12412 U_S. PrinceUS HBP 01133	oil	Ž.	1,00
***	Janes - Ford J.L. Sime 25.2 1 Singson Q Front 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second secon				Constant Contract Con	5 (ind) inC 315C F3da er	12412 U.S. Pineus HBP	oil	See 4 Verys 75 27 28	1 0
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**************************************	Janes - Ford Janes - Ford Single District of the property of	The second of th				Constant Con	S (Ind) and SISE F3da er Singa O & Chem	# 12.4.2 U.S. Pineus H8P 01.12:	oil	See 4 Verys 75 27 28	
**#	Janes - Ford J.L. Sime 25.2 1 Singson Q Front 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Control of the				Control Contro	S (wo) woC 1956 rSda rer Fine O & Chem	Principle Happy 01133	C C C C C C C C C C C C C C C C C C C	Seed 4	
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	Sime DCS 1	Total Company of the		32	The state of the s	Control Contro	S (wo) woC 1956 rSda rer Fine O & Chem	Principle Happy 01133	CC	Seed 4	
Geo.	Siere 25.2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			A STATE OF THE STA	Control Contro	Simol Sing Sing Sing Sing Sing	Principle Happy Oli 13	CC	Some of the same o	
cu o	Sire 06.3 Sire 0	Total Company of the			A STATE OF THE STA	Control Contro	Fine Pine Pine Pine Pine Pine Pine Pine P	Product Harman Allanda Allanda Harman Harman Allanda A	CC S CONTROL Section 1 Control	Some of the same o	
Clara A	Siere 25.2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	The state of the s		30 mg	Tenno de la constante de la co	Control Contro	# Common Parties of the Common Parties of th	Principle (III)	CC STATE OF THE ST	Seed of Control of Con	
TIE 10	Sire 06.3 Sire 0	The second secon			A Marie Constitution of the Constitution of th	Control of	# Common Parties of the Common Parties of th	Prince Signature of the state o	CC STATE OF THE ST	Series (Change Change C	
Claire Ammer 4 9 2 Ly 1662	Sire 05.2 1 Sire 05.2 1 Sire 05.2 1 Sing 97 0 1 Sing	The second secon	The state of the s		A Marie Constitution of the Constitution of th	Control of	# Common Parties of the Common Parties of th	### 1173-1444 (1731-1442) 14-14-1442 14-1442 14-14-1442 14-14-1442 14-14-1442 14-14-1442 14-1442	CC STATE OF THE ST	Series Territorial Comments of the Comments of	
(3a to Amount 4 934 Ug 1841	Sire 0.5.2 1 Sire 0.5.2 1 Sire 0.5.2 1 Sire 0.5.2 1 Sire 0.5.3 200 ST 21 36 Sire 0 Sir	The state of the s	Total Constitution of the	Sparte Market	Town of the state	Control Contro	Fined PERSONAL PROPERTY	Principle (III)	CC STATE OF THE ST	Series (Change Change C	
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Amount 1934 Ly sett	Sire 0 5.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s	The state of the s	Some in	Jan 199 Care Care Care Care Care Care Care Care	Control Contro	Fined PERSONAL PROPERTY	### 1175-166 (185) ### 11	CC	Series Territorial Comments of the Comments of	
America vasu Le sact	Sire 0.5.2 1 Sire 0.5.2 1 Sire 0.5.2 1 Series of the se	The state of the s	South San	Sparre and	Jan 199 Care Care Care Care Care Care Care Care	Control Contro	Fined PERSONAL PROPERTY	### 1175 also (1) 1175 also (1	CC	Series Territorial Comments of the Comments of	
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LUSK WEST (DELAWARL) LEA COUNTY, NEW MEXICO

LAND PLAT OF TRACTS & LEASES COVERING UNIT AREA



PRODUCER

▼ CONVERT TO INJECTOR

≠ PLUGGED & ABANDONED

▲ DRILLED INJECTOR

→ DRY HOLE

DRILLED PRODUCER

	≠ 9	♦ 1 3 4	2 % %4-B %1-A
18	17	1• +5 •2 	2 • 1 • 1 5 × 3 - A 1 - B • 5 - A × 4 - A •
, ²	AGERCAL AGG FERRAL	• i	2-B • Ø2-A
♦ 1 ♦ 3	19 17 V	1 ▼ ²	# 1
10 10 10 10 10 10 10 10 10 10	UNIT 'A' LUSK DEEP L	1001 1 2 4 4 1	22
∦ 5	▼ 14	∮ 1 •3	2 •
•1	y 2 8 ▲ 11	<i>y</i> 11 • 2	•1
30 •1 •2 •4 •4 •1 •2 •	9	28 3-4 10	27
1 • 1	+4 1 × 1 × 1	² +7	
31	32 •1 ×3 •5	3 3	34

Parker & Parsley LEASE: LUSK DEEP UNIT "A" Development L.P. **OPERATOR:** R-32-E **SEC-20** T-19-S 1660' FNL & 2300' FEL WELL NO TOWNSHIP RANGE FOOTAGE LOCATION SECTION SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING SX CEMENTED WITH: 13-3/8 INCHES SIZE: 13-3/8" Circulated Surface FEET DETERMINED BY: TOC: 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: 1650 SIZE: Temp. Survey FEET DETERMINED BY: TOC: 11 HOLE SIZE: 3. LONG STRING 800 SX 5-1/2 INCHES - CEMENTED WITH: SIZE: FEET DETERMINED BY: Temp. Survey 7-7/8 INCHES HOLE SIZE: 6446 4. INJECTION INTERVAL FEET TO: 6467 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6700 FEET 5. TOTAL DEPTH: PERFS 6446'-6467' 6. TUBING SIZE 6683 5-1/2" 2-7/8 INCHES LINED WITH: PC 505 - PLASTIC COATING SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6370 OTHER DATA X IS THIS A NEW WELL DRILLED FOR INJECTION? YES 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 NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) В. C, NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. 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 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P.

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

WATER INJECTION WELL

POSED INJECTION WELL DATA SHEET-

Parker & Parsley LEASE: LUSK DEEP UNIT "A" Development L.P. **OPERATOR:** R-32-E SEC-20 T-19-S 330' FNL & 330' FEL WELL NO RANGE **FOOTAGE LOCATION** SECTION **TOWNSHIP SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 1000 13-3/8 SX SIZE: **INCHES** CEMENTED WITH: 13-3/8" Circulated FEET DETERMINED BY: TOC: Surface HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 1450 8-5/8 8X SIZE INCHES CEMENTED WITH: 4510 8-5/8" FEET DETERMINED BY: Circulated Surface TOC: 12-1/4 HOLE SIZE: INCHES 3. LONG STRING 5-1/2 800 SX INCHES CEMENTED WITH: SIZE: TOC: 2790 FEET DETERMINED BY: CALCULATED 7-7/8 HOLE SIZE: INCHES 4. INJECTION INTERVAL 6476 6484 FEET FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6400 7224 FEET 5. TOTAL DEPTH: PERFS 6476'-6484' 6. TUBING SIZE 7220 2-7/8 INCHES IPC 505 - PLASTIC COATING LINED WITH: SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET: OTHER DATA IS THIS A NEW WELL DRILLED FOR INJECTION? X IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) ₿. C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO 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 FORM C-108 SECTION III S. LUSK BONE SPRING **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley

> Development L.P. WATER INJECTION WELL

TABULATION OF WELL DATA

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

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

7 OSED INJECTION WELL DATA SHEET

OPERATOR:		Parker & Parsley Development L.P	•		LEASE:	LUSK	DEEP UNIT "A	\"		
	-	660' FEL 8			SEC-20		T-19-S		R-32-E	
	EMATIC	FOOTAGE L	DCATION		SECTION		TOWNSHIP		RANGE	
isa naarii		T1888116581				WEL	L CONSTRUCT	ION DATA		
			1. SUFACI	ECASING						
		I 11289 1889	SIZE:	13-3/8	INCHE	<u>s</u> c	EMENTED WITH:		900	sx
13-3/8"		872'	TO0:	Surface		CCCT	DETERMINED BY:		Circulated	
			TOC:	Juliace	·		DETERMINED BT.		Onodiatod	
			HOLE SIZE:		17-1/2		INCHES			
			2. INTERM	IDIATE CA	SING					
			SIZE:	8-5/8	INCHE	s c	EMENTED WITH:		2350	sx
8-5/8"		4485'	•			_				
			,			_	DETERMINED BY:		Circulated	
			HOLE SIZE:		12-1/4		INCHES			
			3. LONG S	TRING						
			SIZE:	5-1/2	INCHE	s c	EMENTED WITH:		800	sx
			TOC:	3030	ı	FFFT	DETERMINED BY	-	Temp. Survey	
			•			_				***************************************
							INCHES			
			4. INJECT	ION INTER			69 FEET TO:		6487 FEE	τ
	X X	PKR @ 6400'					RATED"		•	
•		PERFS	5. TOTAL	DEPTH:		7230)FEET			
	CIBP	6469'-6487' CIBP 6800'	6. TUBING	SIZE						
5-1/2"		7230'	SIZE:	2-7/8	INCHES	LINEC	D WITH:	IPC 505	- PLASTIC COAT	FING
					- SET 4 VA					
			SET IN A:	ARROWS	DET 1-X5,	PKR	PACKER A	T:	6400 FEE	. I :
OTHER DATA										
							V			
A. IS TH	is a ne	WWELL DRILLED FOR IN	IJECTION?		_YES		X NO			
IF NO	D, FOR V	MHAT PURPOSE WAS TH	E WELL ORIG	INALLY DRIL	LED?		PRODUC	CING OIL A	ND GAS WELL	
-	, 	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				·····			
B. NAM	E THE II	NJECTION FORMATION:		6400' SAI	ND (BRUS	НҮ СА	NYON)			
C. NAM	F THE F	TELD OR POOL (IF APPLIC	CARLE)		LUSKW	EST (C	DELAWARE)			
		\	·							
		LL EVER BEEN PERFOR SACKS OF CEMENT OR I							ND GIVE PLUGGED SK. CMT. ON TO	
E. GIVE	THE N	AME(S) AND DEPTH(S) OF	ANY OVER	OR LINDERLY	(ING OIL OF	GAS 70	NES IN THIS ARE	Δ.		
1. 1	AILS	2600'-2800'	N.E. LUS	YATES	-	5, 5	TRAWN 11000	-11200	LUSK STRAW	/N OIL
			S. LUSK Y	YATES	_	6. A	TOKA 11200'-1	1400'	LUSK ATOKA	GAS
2. D	DELAW	ARE 4600'-7100'		DELAWAR	Œ	7. M	ORROW 1150	0'-12000'	LUSK MORRO	
			LUSK DE	LAVVARE	-				N.W. LUSK MOF	RROW GAS
3. B	SONE S	SPRING 8200'-8950'		BONE SP					FORM C-10	
			S. LUSK I	BONE SPR	ING			ADD	FORM C-10 SECTION I LICATION FOR AU	n i
			E. LUSK I	BONE SPR	IING	····		APP	"LICATION FOR AU "TO INJEC" Parker & Pan	т
<u>4. V</u>	VOLF (CAMP 10100'-10700'		NOLFCAMP (Development WATER INJECTIO	L.P.
				WOLFCAM WOLFCAM					TOTAL HOLD HU	*** *********

LUSK DEEP UNIT "A"

		•				
			T-19-S			
FOOTAGE LOCATION		SECTION	TOWNSHIP		RANGE	
PRODUCING OIL AND	GAS WEL	<u> </u>	SPUD DATE:	10/5/62	RE-ENTRY	3/13/88
1. SUFACE	CASING		TABULAR DATA			
SIZE:	13-3/8	INCHES	CEMENTED WITH:		1180	sx
TOC:	Surface		FEET DETERMINED BY:		Circulated	
HOLE SIZE:		17-1/2	INCHES			
2. INTERM	IDIATE CA	SING				
SIZE:	9-5/8	INCHES	CEMENTED WITH:		2365	sx
TOC:	Surface		FEET DETERMINED BY:		Circulated	
HOLE SIZE:		12-1/4	INCHES			
3. LONG S	TRING		NOTE: 6/88 CUT AND PULI	ED 7185' OF	4-1/2 CSG	
SIZE:	4-1/2	INCHES	CEMENTED WITH:		300	sx
тос:	10000		FEET DETERMINED BY:		Circulated	
HOLE SIZE:		7-7/8	INCHES			
4. PRODUC	CTION STR	RING				
SIZE:	5-1/2	INCHES	CEMENTED WITH:	<u>.</u>	500	sx
1/2 CSG TOC:	5595		FEET DETERMINED BY:	,	Calculated	
HOLE SIZE:	<u>-</u>	7-7/8	INCHES			
5. TOTAL I	DEPTH:	11531	FEET			
6. PERFOR	RATIONS	6462	FEET TO:	6472	FI	EET
			ED OR OPEN HOLE; INDIC	ATE WHICH)		
				FORM C- SECTION ON FOR A	I VI .UTHORIZATI	ON
CMENTED)		0	5 .			•
•	`\	50%			-	
	1. SUFACE SIZE: TOC: HOLE SIZE: TOC:	FOOTAGE LOCATION PRODUCING OIL AND GAS WEL 1. SUFACE CASING SIZE: 13-3/8 TOC: Surface HOLE SIZE: 2. INTERMIDIATE CA SIZE: 9-5/8 TOC: Surface HOLE SIZE: 3. LONG STRING SIZE: 4-1/2 TOC: 10000 HOLE SIZE: 4. PRODUCTION STRING SIZE: 5-1/2 TOC: 5595 HOLE SIZE: 5. TOTAL DEPTH: 6. PERFORATIONS	### 1. SUFACE CASING SIZE: 13-3/8 INCHES TOC: Surface HOLE SIZE: 17-1/2 2. INTERMIDIATE CASING SIZE: 9-5/8 INCHES TOC: Surface HOLE SIZE: 12-1/4 3. LONG STRING SIZE: 4-1/2 INCHES TOC: 10000 HOLE SIZE: 7-7/8 4. PRODUCTION STRING SIZE: 5-1/2 INCHES TOC: 5595 HOLE SIZE: 7-7/8 5. TOTAL DEPTH: 11531 6. PERFORATIONS 6462 CMENTED	FOOTAGE LOCATION SECTION TOWNSHIP PRODUCING OIL AND GAS WELL TABULAR DATA 1. SUFACE CASING SIZE: 13-3/8 INCHES CEMENTED WITH: TOC: SURFACE FEET DETERMINED BY: HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING SIZE: 9-5/8 INCHES CEMENTED WITH: TOC: SURFACE FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 3. LONG STRING NOTE: 8/88 CUT AND PULL SIZE: 4-1/2 INCHES CEMENTED WITH: TOC: 10000 FEET DETERMINED BY: HOLE SIZE: 7-7/8 INCHES 4. PRODUCTION STRING SIZE: 5-1/2 INCHES CEMENTED WITH: TOC: 15595 FEET DETERMINED BY: HOLE SIZE: 7-7/8 INCHES 5. TOTAL DEPTH: 11531 FEET 6. PERFORATIONS 6462 FEET TO: (PERFORATED OR OPEN HOLE; INDIC (PERFORATED OR OPEN HOLE; INDIC (PERFORATED) APPLICATIONS APPLICATIONS PARTICIPATIONS PARTICIPATIONS PARTICIPATIONS APPLICATIONS PARTICIPATIONS PARTICIPATIONS PARTICIPATIONS PARTICIPATIONS APPLICATIONS PARTICIPATIONS PARTICIPATI	FOOTAGE LOCATION SECTION TOWNSHIP PRODUCING OIL AND GAS WELL. SPUD DATE: 10/5/62 TABULAR DATA 1. SUFACE CASING SIZE: 13-3/8 INCHES CEMENTED WITH: TOC: SURFACE 17-1/2 INCHES 2. INTERMIDIATE CASING SIZE: 9-5/8 INCHES CEMENTED WITH: TOC: SURFACE FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 3. LONG STRING NOTE: 8/88 CUT AND PULLED 7/185' OF SIZE: 4-1/2 INCHES CEMENTED WITH: TOC: 10000 FEET DETERMINED BY: HOLE SIZE: 7-7/8 INCHES 4. PRODUCTION STRING SIZE: 5-1/2 INCHES CEMENTED WITH: TOC: 10000 FEET DETERMINED BY: HOLE SIZE: 7-7/8 INCHES 5. TOTAL DEPTH: 11531 FEET 6. PERFORATIONS 6.462 FEET TO: 6472 (PERFORATED OR OPEN HOLE; INDICATE WHICH: "PERFORATED" FORM CONSENTED OR OPEN HOLE; INDICATE WHICH: "PERFORATED" FORM CONSENTED CMENTED) Parker & P Development	### FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Development L.P.

OPERATOR

LEASE

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

PRODUCING OIL AND GAS WELL

SPUD DATE: 11/22/88

TYPE OF WELL: SCHEMATIC 13-3/8" 8-5/8*

PERFS

6468'-6478'

4 SXS CMT CIBP @ 7030'

TABULAR DATA

1. SUFACE CASING

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

HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

700 sx 8-5/8 INCHES CEMENTED WITH: FEET DETERMINED BY: Temp. Survey 2370 TOC:

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

600 sx SIZE: 5-1/2 INCHES CEMENTED WITH: FEET DETERMINED BY: Temp. Survey 4690 TOC:

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220

5. PERFORATIONS

6478 FEET TO: (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

Parker & Parslev

OPERATOR

			-		-		_	• •	J	
D	e١	/el	0	рn	ne)N	t	L.	P	

LUSK DEEP UINIT "A"

19 WELL NO. 330' FNL & 1656' FEL

SEC-20

T-19-S

R-32-E

FOOTAGE LOCATION

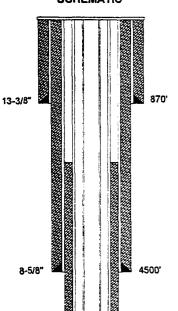
TOWNSHIP

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. INTERMIDIATE 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:

TOC: 1630 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

FEET

5. PERFORATIONS

4. TOTAL DEPTH:

6468

7220

FEET TO:

6481 ____FEET

(PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED"

TBG @ 6487'

PERFS

6468'-6481'

7220'

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

	opinic								
OPERAT	OR					LEASE			
•		3	1650' FNL & 6	60' FWL		SEC-20	T-19-S	R-32-E	
	WE	LL NO.	FOOTAGE LOCA			SECTION	TOWNSHIP		
	TYPE C	F WELL: _	PLUGGED &	ABANDON	ED		SPUD DATE	: 7/22/6	51
	sc	HEMATIC					TABULAR DATA		
	200 200	The state of	10 SXS CMT	1. SUFAC	E CASING				
		Company of the compan		SIZE:	13-3/8	INCHES	CEMENTED WITH	900	sx
				TOC:	Surface		FEET DETERMINED BY:	Circula	ted
13-3/8"			25 SXS CMT 700'-800' 786'	HOLE SIZE:		17-1/2	INCHES		
				2. INTERN	MIDIATE CA	SING			
			as ove out	SIZE:	9-5/8	INCHES	CEMENTED WITH	:2730	S×
			25 SXS CMT 2400'-2500'	TOC:	Surface		FEET DETERMINED BY:	Circula	ted
				HOLE SIZE:		12-1/4	INCHES		
			35 SXS CMT 4412'-4552'	3. LONG	STRING				
9-5/8			4552'	SIZE:	5-1/2	INCHES	CEMENTED WITH	:382	SX
				TOC:	10605	-	FEET DETERMINED BY:	Temp. Su	rvey
			25 SXS CMT 5300'-5400'	HOLE SIZE:		7-7/8	INCHES		
			STUB 5" CSG @ 5400'	4. TOTAL	DEPTH:	12623	FEET		
				5. PERFO	RATIONS				
						11310	FEET TO: ED OR OPEN HOLE; IND	12390	FEET
						(PERFORA)	PERFORATED"	CATE WHICH)	
		C B B	OPEN HOLE	LIST A	LL SUCH P	ERFORATE	PERFORATED IN AN	GIVE PLUGGED	
				DETAIL	., I.E. SACP	(2 OF CEM	ENT OR PLUG(S) US	ED	NONE
									
								· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
			CUT 5-1/2" CSG					FORM C-108 SECTION VI	
			20 SXS CMT 10920'-11000'				AP	PLICATION FOR AUTHOR TO INJECT	RIZATION
		CIBP	CIBP @ 11000'					Parker & Parsley Development L.P.	
			PERFS @ 11310' - 12390'					WATER INJECTION WI	ĒĻĻ.
5-1	1/2"		12439'					TABULATION OF WELL	DATA

		4.	
	% 9	♦ 1	2 % 4-B % 1-A
•1		1• +5	2 • 1 5 8,0
18	17	16	1-B • 5-A
13		USS STATE 16	1 4-A ●
,€ ₂	AQUEDUCT 1	LUSK STATE 16	2-B• % 2-A
ф1 ф3	1 19 17 LUSK DEEP LUSK DEEP UNIT "A"	1 AMOCO 2/AMOCO FEDERAL	≠ 1
10	LUSK DEEP 15 • UNIT "A" LUSK DEEP UNIT "A"	MOBIL AGBIL	/ 1
10 01 02 01	20	FEDERAL 21	22
+1 +2 +° 5	4 20	4 1	•1
1 9 ★ 6	21 4	4 1	2 •
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1,0	1	33	→ 1
	# 2		
		ف	

OPERATOR:	SHACKELFORD	OIL CO.	LEASE:	MOBIL FEDERAL	
WELL NO	1 1650' FNL FOOTAGE L	& 330' FWL	SEC-21	T-19-S	
SCHEMA		OCATION	SECTION	TOWNSHIP	RANGE
SCHEMA	A110			WELL CONSTRUCTION	DATA
		1. SUFACE CASING	,		
13-3/8"	461'	SIZE: 13-3/8	3 INCHES	CEMENTED WITH:	475 sx
13-3/8"	1 11 1223 —	тос: Surface		FEET DETERMINED BY:	Circulated
		HOLE SIZE:	17-1/2	INCHES	
		2. INTERMIDIATE CA	ASING		
8-5/8"	4257'	SIZE: 8-5/8	3 INCHES	CEMENTED WITH:	860 sx
	CURRENT U.DELAWARE	тос: Surface		FEET DETERMINED BY:	Circulated
	PERFS 4874'-5040'	HOLE SIZE:	12-1/4	INCHES	
8-5/8"	CURRENT U.DELAWARE PERFS 4874'-5040' PROPOSED TO CMT SQZ OFF U. DEL.	3. LONG STRING			
		SIZE: 5-1/2	2 INCHES	· CEMENTED WITH:	875 sx
		тос: 4248	8	FEET DETERMINED BY:	Temp. Survey
		HOLE SIZE:	7-7/8	INCHES	
		4. INJECTION INTE	RVAL	6469 FEET TO:	6479FEET
Z	☑ PKR @ 6400'			ED OR OPEN HOLE; INDICAT ERFORATED"	TE WHICH)
	PERFS	5. TOTAL DEPTH:		6700 FEET	
		6. TUBING SIZE			•
E 4/07	6692'	2.7/9			C FOE DI ACTIO COATINO
5-1/2*	0032	SIZE: 2-7/8	INCHES	•	C 505 - PLASTIC COATING
		SET IN A: ARROW	SET 1-XS,	PKR PACKER AT:	6400 FEET:
				,	
OTHER DATA					
A. IS THIS A	A NEW WELL DRILLED FOR I	IJECTION?	YES	х но	
IF NO, F	OR WHAT PURPOSE WAS TH	E WELL ORIGINALLY DRI	ILLED?	PRODUCING	OIL AND GAS WELL
B. NAME T	HE INJECTION FORMATION:	6400' SA	ND (BRUSH	IY CANYON)	Andrew Commission and the Commission of the Comm
C. NAME T	HE FIELD OR POOL (IF APPLI			ST (DELAWARE)	
			NE(S)? LIST A	LL SUCH PERFORATED INTER	
	, I.E. SACKS OF CEMENT OR			FS 4904', 4984'-5006', 50 ING FROM U. DELAWAR	
	IE NAME(S) AND DEPTH(S) O				
	ES 2600'-2800'		THIS SIE SIV		
1. 161	23 2000-2000	N.E. LUSK YATES S. LUSK YATES		5. STRAWN 11000'-112	
0.050				6. ATOKA 11200'-1140	
2. DEL	AWARE 4600'-7100'	W. LUSK DELAWARE	KE	7. MORROW 11500'-12	000' LUSK MORROW GAS N.W. LUSK MORROW GAS
3 50	NE ODDING POOR COSC	MATURIO DONE			N. LUSK MORROW GAS
3. BOI	NE SPRING 8200'-8950'	LUSK BONE SPRIN		 -	FORM C-108
		S. LUSK BONE SPI	RING	·	SECTION III APPLICATION FOR AUTHORIZATION
		E. LUSK BONE SPI	KING	-	TO INJECT
<u>4. WO</u>	LF CAMP 10100'-10700	LUSK WOLFCAMP E. LUSK WOLFCAM S. LUSK WOLFCAM	MP OIL	_	Parker & Paraley Development L.P. WATER INJECTION WELL

PF OSED INJECTION WELL DATA SHEET

OPERATOR:	SHAC	KELFORD	OIL CO.		LEASE:	AMOCO FE	EDERAL			
WELL NO	2	990' FNL 8	1650' FWL		SEC-21	· · · · · · · · · · · · · · · · · · ·	T-19-S		R-32-E	
	IEMATIC	FOOTAGE L	OCATION		SECTION		TOWNSHIP		RANGE	
			1. SUFACE	E CASING		WELL COI	NSTRUCTIO	ON DATA		
			SIZE:	13-3/8	INCHES	CEMEN1	TED WITH:		475	sx
13-3/8"		459'							Circulated	
			·					W-7-4.		
			·	IIDIATE CA						
			SIZE:	8-5/8	INCHES	CEMEN'	TED WITH:		100	sx
8-5/8"	42	250'					1	NOTE: PULL	ED 3088' 8-8/5" CSG Circulated	
						•	_			
			3. LONG S							
			SIZE:	5-1/2	INCHES	CEMEN	TED WITH:		2250	sx
							NOTE: PUMP	ED 1575 SXS	S CMT FROM TOPSIDE	
			TOC:	Surface		- FEET DETER	KWINED BA:		Circulated	
			HOLE SIZE:		7-7/8	S	INCHES			
	⊠ ⊠ PKR 6420'	~	4. INJECT		(PERFORAT		HOLE; INDI		6503 FEET	
	PERF	rs	5. TOTAL	DEPTH:		6700	FEET			
	6489	-6503'	6. TUBING	S SIZE						
5-1/2"	6650'		SIZE:	2-7/8	INCHES	LINED WITH	l:	IPC 505 -	PLASTIC COATING	
			SET IN A:	ARROW S	ET 1-XS,	PKR	PACKER AT:		6420 FEET:	
							_	-		
OTHER DATA	•									
A. IST	THIS A NEW WELL	. DRILLED FOR II	NJECTION?		YES -	<u> </u>	_NO			
IF N	IO, FOR WHAT PL	JRPOSE WAS TH	IE WELL ORIG	SINALLY DRILI	LED?		PRODUCI	NG OIL AN	ID GAS WELL	
					•	······································				
B. NAI	ME THE INJECTIO	N FORMATION:		6400' SAN	ID (BRUS	Y CANYO	V)			
C. NAI	ME THE FIELD OR	POOL (IF APPLI	CABLE)		LUSK WE	ST (DELAV	VARE)			
	S THE WÊLL EVER ETAIL, I.E. SACKS								D GIVE PLUGGED LY PRODUCING FROM	
U.	DELAWARE F	PERFS 4856'-4	1867' PLAN	ITO SQZ O	FF U. DEL	AWARE CO	ONVERT TO	WIW IN 6	469'-6503' PERFS	
E. GIV	/E THE NAME(S) A	AND DEPTH(S) O	FANY OVER	OR UNDERLY	ING OIL OR	GAS ZONES I	N THIS AREA:			
1.	YATES 2600'-2	2800'	WATKINS		_	5. STRAV	VN 11000'-	11200'	LUSK STRAWN OIL	•
			N.E. LUSK		_	6. ATOKA	11200'-11	400'	LUSK ATOKA GAS	
2.	DELAWARE 4	600'-7100'		DELAWAR	<u>E</u>	7. MORR	OW 11500'	-12000'	LUSK MORROW G	
			LUSK DE	LAWARE	-				N.W. LUSK MORROW	
<u>3.</u>	BONE SPRING	8200'-8950'		S BONE SP				i	FORM C-108	
			S. LUSK	BONE SPR	ĪNG			APDI I	SECTION III CATION FOR AUTHORIZA	ATION
			E. LUSK	BONE SPR	ING	_		AFFE	TO INJECT	.,,51
4.	WOLF CAMP	10100'-10700'							Parker & Parsley Development L.P.	
				WOLFCAMI WOLFCAMI					WATER INJECTION WELL BULATION OF WELL DA	_

P POSED INJECTION WELL DATA SHEFT

La Tablia Albanda Albanda Albanda A

OPERATOR:	Development L.F	•	ı.	_EASE:	LUSK DEEP UNIT "A"			
WELL NO 12	1660' FNL	& 2300' FE	L S	SEC-20	T-19-S TOWNSHIP	R-3	32-E	
SCHEMAT		OCATION	S	SECTION	TOWNSHIP	RAI	4GE	
SCHEMA	मा गठना सरक्ष				WELL CONSTRUCTION	N DATA		
		1. SUFAC	E CASING					
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	·	500	sx
13-3/8"	819'	TOC:	Surface		FEET DETERMINED BY:	Cir	culated	
					. –			
		HOLE SIZE:		17-172	INCHES			
		2. INTERM	NIDIATE CAS	SING				
8-5/8"	4482	SIZE:	8-5/8	INCHES	CEMENTED WITH:		1650	sx
		TOC:	1350		FEET DETERMINED BY:	Tem	p. Survey	
		HOLE SIZE:		11	INCHES			
		3. LONG S						
		SIZE:	5-1/2	INCHES	· CEMENTED WITH:		800	SX
					-			
					FEET DETERMINED BY:	rem	p. Survey	
		HOLE SIZE:		7-7/8	INCHES			
		4. INJECT			6446 FEET TO:		67 FEET	
Z	PKR @ 6370'		(ERFORATED"	ATE WHICH)		
		5 TOTAL	DEPTH:		6700 FEET			
	PERFS 6446'-6467'		_					
		6. TUBING						
5-1/2"	6683'	SIZE:	2-7/8	INCHES	LINED WITH: 1	PC 505 - PLA	ASTIC COATING	
		SET IN A:	ARROW SE	ET 1-XS,	PKR PACKER AT:	63	70 FEET:	
OTHER DATA								
A. IS THIS A N	NEW WELL DRILLED FOR I	IJECTION?		YES	XNO			
IF NO, FOR	NWHAT PURPOSE WAS TH	E WELL ORIG	SINALLY DRILLI	ED?	PRODUCIN	IG OIL AND (GAS WELL	
COMMENT	: SPUD WELL 11 <i>12/</i> 74. P&A	WELLBORE	8/27/86. RE-EN	ITRY 4/12/89)			
	INJECTION FORMATION:				Y CANYON)		· · · · · · · · · · · · · · · · · · ·	
					·			
	FIELD OR POOL (IF APPLI	•	************	······································	ST (DELAWARE)			
	VELL EVER BEEN PERFOR E. SACKS OF CEMENT OR				LL SUCH PERFORATED INT 9'-8914' CIBP AT 8800' W/5, S			
CIBP AT 10	0640' W/5, SX, CMT/TOP. F	PERFS 11460'-	- 11581'. CIBP A'	T 11430'.W/	5, SX, CMT/TOP, CIBP AT 1	2212' W/20 SX	CMT/TOP	
					GAS ZONES IN THIS AREA:			
				NO OIL OIL	•			
I. YATES	S 2600'-2800'	N.E. LUS	K YATES		5. STRAWN 11000'-1	1200' LU	JSK STRAWN OIL	
		S. LUSK	YATES		6. ATOKA 11200'-114	100, Fr	JSK ATOKA GAS	
2. DELA	WARE 4600'-7100'	W. LUSK LUSK DE	DELAWARE		7. MORROW 11500'-		JSK MORROW GAS	
			· 				W. LUSK MORROW LUSK MORROW G	
3. BONE	SPRING 8200'-8950'		S BONE SPR		_		FORM C-108	
		S. LUSK	BONE SPRII	NG	_	APDI ICAT	SECTION III TON FOR AUTHORIZATI	(UP)
		E. LUSK	BONE SPRI	NG	_		TO INJECT	JIT.
4. WOLF	CAMP 10100'-10700'					1	Parker & Parsley Development L.P. ER INJECTION WELL	
			WOLFCAMP			WAI	THE MOSE HOW MELL	

P POSED INJECTION WELL DATA SHEFT

Carlos as

OPERATOR:		er & Parsley lopment L.P.			LEASE:	LUSK DEEP UNIT "A"			
				•	SEC-20	T-19-S	R	-32-E	
WELL NO	17	FOOTAGE LO			SECTION	TOWNSHIP		ANGE	
SCHE	MATIC					WELL CONSTRUCTIO	N DATA		
			1. SUFAC	E CASING					
		882'	SIZE:	13-3/8	INCHES	CEMENTED WITH:		1000	s»
13-3/8"		-	TOC:	Surface		FEET DETERMINED BY:	С	irculated	
			HOLE SIZE:		17-1/2	INCHES			
				IIDIATE CA					
		4 510'	SIZE:	8-5/8	INCHES	CEMENTED WITH:		1450	s>
8-5/8"			TOC:	Surface		FEET DETERMINED BY:	С	irculated	
						INCHES			
			3. LONG S	STRING					
			SIZE:	5-1/2	INCHES	CEMENTED WITH:		800	S
			TOC:	2790		FEET DETERMINED BY:	CAL	CULATED	
			HOLE SIZE:	•	7-7/8	INCHES			
	☑	R @	4. INJECT		(PERFORAT	6476 FEET TO: ED OR OPEN HOLE; INDIC		484 FEET	
	PEF 647	RFS 6'-6484'	5. TOTAL	DEPTH:		7224 FEET			
Ħ			6. TUBING	SIZE					
5-1/2"	722	0,	SIZE:	2-7/8	INCHES	LINED WITH: 1	PC 505 - PL	ASTIC COATING	
			SET IN A:	ARROW S	ET 1-XS,	PKR PACKER AT:	6	6400 FEET:	
			•						
OTHER DATA									
A. IS TH	IS A NEW WE	L DRILLED FOR IN	JECTION?		YES	XNO			
IF NO	, FOR WHAT F	PURPOSE WAS THE	WELL ORIG	SINALLY DRILL	.ED?	PRODUCIN	G OIL AND	GAS WELL	····
B. NAME	THE INJECTI	ON FORMATION:		6400' SAN	D (BRUSH	Y CANYON)			
C. NAME	THE FIELD O	R POOL (IF APPLIC	ABLE)		LUSK WE	ST (DELAWARE)			-
		·	ŕ			L SUCH PERFORATED INTE			
		OF CEMENT OR F			NO NO	L SUCH PERFORATED INTE	:RVALS AND (GIVE PLUGGED	
									
E. GIVE	THE NAME(S)	AND DEPTH(S) OF	ANY OVER	OR UNDERLYI	NG OIL OR O	GAS ZONES IN THIS AREA:			
1. Y/	ATES 2600	-2800'	WATKINS			5. STRAWN 11000'-11	1200' L	USK STRAWN OIL	,
			N.E. LUSK			6. ATOKA 11200'-114	00' ι	USK ATOKA GAS	
2. DI	ELAWARE	4600'-7100'	W. LUSK	DELAWARI	<u> </u>	7. MORROW 11500'-1	2000' L	USK MORROW GA	
			LUSK DE	LAWARE	- -		1	N.W. LUSK MORRO	W GAS
3. B	ONE SPRIN	G 8200'-8950'		BONE SPI		_	<u>. r</u>	N. LUSK MORROW	GAS
				NE SPRINC BONE SPRI	-			FORM C-108 Section III	
				BONE SPRI		- 	APPLICA	ATION FOR AUTHORIZA TO INJECT	ATION
<u>4. W</u>	OLF CAMP	10100'-10700'		LFCAMP C			100	Parker & Parsley Development L.P.	
				WOLFCAME WOLFCAME		_		ATER INJECTION WELL ULATION OF WELL DA	

SHACKELFORD OIL			PLAINS UN	NT .		
OPERATOR			LEASE			
6	1980' FSL & 660' FWI	L.	SEC-21	T-19-S	R-32-Е	
WELL NO.	FOOTAGE LOCATION			TOWNSHIP		
TYPE OF WELL:	PRODUCING OIL AN	D GAS WEL	L	SPUD DATI	E: 7/10/96	
SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA		
	SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx
	TOC:	Surface	··	FEET DETERMINED BY:	Circulated	
13-3/8" 4 825	HOLE SIZE:		17-1/2	INCHES		
13-3/8" 825	2. INTERN	MIDIATE CA	SING			
10-3/4" 2651'	SIZE:	10-3/4	INCHES	CEMENTED WITH:	700	sx
	тос:	Surface		FEET DETERMINED BY:	Circulated	····
	HOLE SIZE:		12-1/4	INCHES		
10-3/4" 2651'	3. INTERN	MIDIATE CA	SING			
	SIZE:	8-5/8	INCHES	CEMENTED WITH:	275	sx
8-5/8-	TOC:	3335		FEET DETERMINED BY:	Calculated	
	HOLE SIZE:		11	INCHES		
	4. LONG S	STRING				
8-5/8" 4490'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	200	sx
	тос:	10714	····	FEET DETERMINED BY:	Calculated	
	HOLE SIZE:		7-7/8	INCHES		
	5. TOTAL	DEPTH:	11690	FEET		
	6. PERFO	RATIONS				
			11516 (PERFORATE	FEET TO: ED OR OPEN HOLE; INI		
				"PERFORA"	FORM C-108	
PERFS				APPLICA	SECTION VI TION FOR AUTHORIZATION TO INJECT	
11516'-11	1530'			,	Parker & Parsley	
5-1/2" ×1690'	•				evelopment L.P.	
					TER INJECTION WELL	

RAY	WESTALL OF	PERATING CORI	·		LUSK "16"	STATE		
OPERAT	TOR				LEASE			·
	1	660' FSL	& 660' FWL		SEC-16	T-19-S	R-32-E	
	WELL NO.		LOCATION		SECTION	TOWNSHIP		
	TYPE OF WELL:	PRODUC	ING OIL AN	D GAS WE	LL	SPUD DATE	£:3/9/62	
	SCHEMATIC	•				TABULAR DATA		
			1. SUFAC	E CASING		TADOCAN DATA		
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	125	sx
		208'	TOC:	Surface		FEET DETERMINED BY:	Circulated	<u>d</u>
13-3/8"		208'	HOLE SIZE:		17-1/2	INCHES		•
			2. INTERI	MIDIATE CA	SING			
			SIZE:	9-5/8	INCHES	CEMENTED WITH:	500	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	d
			HOLE SIZE:		11	. INCHES		
9-5/8		450'	3. LONG	STRING				
			SIZE:	5-1/2	INCHES	CEMENTED WITH:	3475	sx
		450'	TOC:	Surface		FEET DETERMINED BY:	Circulated	<u>d</u>
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	DEPTH:	6600	FEET		
			5. PERFO	RATIONS	6503	FEET TO:	6509	FEET
					(PERFORATI	ED OR OPEN HOLE; INC		
						"PERFORA1	LED	
	5							
					~		FORM C-108 SECTION VI	
		TBG @ 6230°				ABBI ICAT	ION FOR AUTHORIZAT	TON
	∑ 3-1/2"	TBG @ 6230' PERFS 6503'-6509'				AFFLICAT	TO INJECT	
	5-1/2"	6600,					arker & Parsley evelopment L.P.	
`		6600				D	evelopilient L.F.	

WATER INJECTION WELL

	KELFORD OIL			AMOCO F	EDERAL		
OPERAT	OR			LEASE			
	1	660' FNL & 330' FWL		SEC-21	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP		
	TYPE OF WELL:	PRODUCING OIL AN	D GAS WE	LL	SPUD DATE:	9/23/88	
	SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx
	4250	TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	450			17-1/2	INCHES		
		2. INTERN	MIDIATE CA	SING			
		SIZE:	8	INCHES	CEMENTED WITH:	2150	sx
	4250	TOC:	Surface		FEET DETERMINED BY:	Circulated	
8				11	INCHES		
•	4250	3. LONG S	STRING				
	WATER 11 WATER 12 WAT	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. PERFO	RATIONS	0.400		0.400	
	05050	•		6490	FEET TO: ED OR OPEN HOLE; INDI	6493 FE	ET
	PERFS 4892'-49	Ď6'		(,, _, _, _, _, _, _, _, _, _, _, _, _	"PERFORAT		
	PERFS 4892'-49'						
				ميم		FORM C-108 SECTION VI	
	PERFS 4892'-49'	3 3.			APPLICATI	ON FOR AUTHORIZATIO	N
;	5-1/2" 6650'					arker & Parsley evelopment L.P.	
						-	

WATER INJECTION WELL

SHACKELFORD OIL			MOBIL FEI	DERAL			
OPERATOR			LEASE				
	1650' FNL & 1650' FW	L	SEC-21		T-19-S	R-32-E	
WELL NO.	FOOTAGE LOCATION		SECTION	•	TOWNSHIP	RANGE	
TYPE OF WELL:	PRODUCING OIL AND	GAS WE	<u>LL</u>		SPUD DATE:	8/30/88	
SCHEMATIC	1. SUFACE	CASING		TABULAR	DATA		
	SIZE:	13-3/8	INCHES	CEMENTED V	VITH:	475	sx
	TOC:	Surface		FEET DETER	MINED BY:	Circulated	-
	HOLE SIZE:		17-1/2	<u> </u>	NCHES		
	2. INTERM	DIATE CA	ASING				
	SIZE:	N/A	INCHES	CEMENTED V	VITH:	N/A	sx
	TOC:	N/A		FEET DETER	MINED BY:	N/A	
13.3/8"	HOLE SIZE:	·	N/A	- <u>.</u>	NCHES		
13-3/8" 454'	3. LONG S	TRING					
	SIZE:	5-1/2	INCHES	CEMENTED V	VITH:	165	sx
	TOC:	5997		FEET DETERI	MINED BY:	Calculation	
	HOLE SIZE:	· · · · · · · · · · · · · · · · · ·	11 & 7-7/8		INCHES		
	4. TOTAL I	DEPTH:	6690		FEET		
	5. PERFOR	RATIONS	6490		FEET TO:	6495 FE	ET
7777			(PERFORATI		HOLE; INDI	CATE WHICH)	
			4			FORM C-108	
						SECTION VI	
PERFS 6490-649	5			A	PPLICATI	ON FOR AUTHORIZATION TO INJECT	N
S-1/2 6690°						arker & Parsley evelopment L.P.	

WATER INJECTION WELL

۲	ar	Kei	r Œ	ra	rs	ie	1
٥	le	velo	gc	nei	nt	L.I	Ρ.

LUSK DEEP UINIT "A"

OPERATOR			LEASE				
19	330' FNL & 1656' FEL		SEC-20	T-19-S	R-32-	Ε	
WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP		E	
TYPE OF WELL:	PRODUCING OIL AN	D GAS WEI	L	SPUD DATE	:1/2	26/90	
SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA			
	SIZE:	13-3/8	INCHES	CEMENTED WITH:	10	00	sx
13-3/8"		Surface		FEET DETERMINED BY:	Circ	ulated	
.000			17-1/2	INCHES			
	2. INTERN	NDIATE CA	SING				
	SIZE:	8-5/8	INCHES	CEMENTED WITH:	32	30	sx
	TOC:	Surface		FEET DETERMINED BY:	Circ	ulated	
	HOLE SIZE:		12-1/4	INCHES			
8-5/8" 4500	3. LONG S	STRING					
	SIZE:	5-1/2	INCHES	CEMENTED WITH:	90	00	sx
	тос:	1630		FEET DETERMINED BY:	Temp.	Survey	
8-5/8"	HOLE SIZE:		7-7/8	INCHES			
	4. TOTAL	DEPTH:	7220	FEET			
	5. PERFO	RATIONS					
			6468	FEET TO:	.6481	FEET	
			(PERFORAT	"PERFORAT			
			حيد		FORM C-108		
	0.407				SECTION VI		
TBG @	548 7			APPI ICATI	ON FOR AUTHO	RIZATION	
TBG @ PERFS 6468'-64	181'			ALL EIVAL	TO INJECT	111011	
5-1/2" 7220'					arker & Parsie evelopment L.i		
	•			De	saciohinenc Fi	•	

WATER INJECTION WELL

WELL DATA SHEET

Parker & Parsley Development L.P.

LUSK DEEP "A"

OPERA	TOR		· · · · · · · · · · · · · · · · · · ·	LEASE			
	15 WELL NO.	1651' FNL & 330' FEL		SEC-20			
	TYPE OF WELL:		CAS WE		TOWNSHIP	: 11/22/88	
	TYPE OF WELL:	PRODUCING OIL AN	J GAS WE	<u> </u>	SPUD DATE	11/22/88	
	SCHEMATIC	1. SUFACI	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	1000	sx
	828'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	828'	HOLE SIZE:		17-1/2	INCHES		
		2. INTERN	IIDIATE CA	ASING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	700	sx
		TOC:	2370		FEET DETERMINED BY:	Temp. Survey	
		HOLE SIZE:	***************************************	12-1/4	INCHES		
8-5/8		3. LONG S	TRING				
		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. PERFO	RATIONS	6468	FEET TO:	6478 FEET	
					ED OR OPEN HOLE; IND	HCATE WHICH)	
	PERFS 6468'-647/			مي	"PERFORAT	ED.	
				22		FORM C-108 SECTION VI	
	PERFS 6468'-647	8'			APPLICAT	ION FOR AUTHORIZATION TO INJECT	
	4 SXS CM CIBP @ 70					arker & Parsley	
	5-1/2" 7220'				De	evelopment L.P.	

WATER INJECTION WELL

YATE	S HARVEY E				LUSK "16"	STATE		
OPERAT	OR				LEASE			
	2	1650' FSL &	330' FWL		SEC-16	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	DRY HOLE	<u>.</u>		_	SPUD DATE	E:	/89
	SCHEMATIC		1. SUFAC	CE CASING		TABULAR DATA		
		10 SXS CMT	SIZE:	9-5/8	INCHES	CEMENTED WITH	H: 500	sx
			TOC:	Surface		FEET DETERMINED BY:	Circula	ated
			HOLE SIZE	:	11	INCHES		
			2. INTER	MIDIATE CA	SING			
			SIZE:	N/A	INCHES	CEMENTED WITH	H: N/A	SX
			TOC:	N/A		FEET DETERMINED BY:	N/A	
			HOLE SIZE	:	N/A	INCHES		
9-5/8"		450'	3. LONG	STRING				
			SIZE:	5-1/2	INCHES	CEMENTED WITH	H: 3475	sx
			TOC:	Surface		FEET DETERMINED BY:	Circula	ated
			HOLE SIZE	·	7-7/8	INCHES		
		888'-938'	4. TOTAL	DEPTH:	6600	FEET		
			5. PERF	DRATIONS	6506 (PERFORATI	FEET TO: ED OR OPEN HOLE; IND PERFORATED"	. 6506 DICATE WHICH)	FEET
	CIBP	25 SXS CMT 2526'-2776'	LIST A	LL SUCH P	ERFORATE	PERFORATED IN AI ED INTERVALS AND ENT OR PLUG(S) US	GIVE PLUGGED	?
							•	
		50 SXS CMT						
	CIBP	CIBP @ 4800'					FORM C-108 SECTION VI	
						AP	PLICATION FOR AUTHO	RIZATION
		50 SXS CMT					Parker & Parsley Development LP	
	CIBP	CIBP @ 6475'					WATER INJECTION V	VELL.
5- 1	1/2"	eeoo.					TABULATION OF WELL	. DATA

OPERAT	OR				LEASE			
		330' FSL & 3	30' FEL		SEC-17	T-19-S	R-32	2-E
	WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RAN	GE
	TYPE OF WELL:	PLUGGED &	ABANDONE	<u>ED</u>		SPUD DATE:	6	/11/89
	SCHEMATI	С	1. SUFAC	E CASING		TABULAR DATA		
		15 SXS CMT @ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	800	S×
			TOC:	Surface		FEET DETERMINED BY:	Circ	culated
13-3/8"		802	HOLE SIZE:		17-1/2	INCHES		
		40 SXS CMT TOC @ 2812'	2. INTERN	MIDIATE CA	SING			
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	295	<u> </u>
		CUT 5-1/2" CSG @ 2890'	TOC:	Surface		FEET DETERMINED BY:	Circ	culated
			HOLE SIZE:		12-1/4	INCHES		
	,		3. LONG	STRING				
8-5/8"		4500'	SIZE:	5-1/2	INCHES	CEMENTED WITH	975	S>
			TOC:	Surface		FEET DETERMINED BY:	Circ	culated
		35 SXS CMT TOC @ 4930'	HOLE SIZE:		7-7/8	INCHES		
	CIBP	CIBP @ 4975'	4. TOTAL	DEPTH:	7300	FEET		
			5. PERFO	RATIONS	6486	FEET TO:	6498	FEET
						ED OR OPEN HOLE ; INDI		
			LIST AL	LL SUCH P	ERFORATE	PERFORATED" PERFORATED IN AN D INTERVALS AND (GIVE PLUGGED	
			DETAIL	., I.E. SACH	(S OF CEM	ENT OR PLUG(S) US	ED	NONE
					4-			
							FORM C-1 SECTION	
						APF	PLICATION FOR AU TO INJEC	
							Parker & Par Development	
							WATER INJECTIO	ON WELL .
5-1	12"	7300'					TABULATION OF W	ÆLL DATA

		≠ 9		2 % 4-B % 1-A
18 13• +1	1	17	1 • 5 • 2 LUSH STATE 16	2 1 1 5 8 8 1 1 5 - A 1 5 - A 1 4 - A 6 2 - A
+ 1 +3	•1	AGUEDICT AGG FEDERAL 17 LUSK DEEP UNIT "A"	1 FEDERAL 2	1
10 1 1 2 1 +1 +2 +2 5		20 V 12 15 LUSK DEEP UNITY AF	Spiling Federal Man J Spiling Federal A SPEERAL 4 2 LYNCH FEDERAL A AIMS FEDERAL	•1 22
• 1	• 1	▼14 • 4	⁴ ₁ •3	2.
•¹ 30	•	7 10 1	• 2	
• 2 • 4	1 3	9 5 5 5 5 6 7 4 6 7 4 12 13	28 3-y 35 10	27 ø1 •4
1 •	• 1	\$4 1 pt 1 pt 1	21 77	
31	1,8'	32 •1 •3 •5	33	34
		≱ 2	A*	,

1830 1830 948

990'ARRL - 1650'FWE 1930'ESL - 660' FWL

2360' - 990' = 2560' between

PF POSED INJECTION WELL DATA SHEET

and the second s

OPERATO	R: SHACKELFORD	DIL CO.	LEASE:	AMOCO F	EDERAL				
WELL NO	2 990' FNL &	1650' FWL	SEC-21	 	T-19-S	!	R-32-E		
	FOOTAGE LO	DCATION	SECTION		TOWNSHIP	f	RANGE		
	120 80 80	1. SUFACE CASIN		WELL CO	NSTRUCTION	ON DATA			
	459'	SIZE: 13-3.	/8 INCHES	CEMEN	ITED WITH:		475		sx
13-3/8"		тос: Surface	9	FEET DETE	RMINED BY:	(Circulated		
		HOLE SIZE:	17-1/2		_INCHES				
		2. INTERMIDIATE							
8-5/8"	4250	SIZE: 8-5		-		NOTE: PULLE	D 3088' 8-8/5'	'CSG	<u>sx</u>
		тос: Surface		-		(Circulated		
		HOLE SIZE:	12-1/4		_INCHES				
		3. LONG STRING					2252		
		SIZE: 5-1	/2 INCHES	CEMEN		PED 1575 SXS			<u>sx</u>
		тос: Surface	€	FEET DETE					
		HOLE SIZE:	7-7/8	···	NCHES				
		4. INJECTION INT	FRVAL	6489	FFET TO:		6503	FEET	
	⊠ X PKR @ 6420'		(PERFORAT		HOLE; INDI				
	PERFS 6489'-6503'	5. TOTAL DEPTH:	·	6700	FEET				
		6. TUBING SIZE							
5-1/	6650'	SIZE: 2-7/8	INCHES	LINED WITH	+:	IPC 505 - F	PLASTIC C	OATING	
		SET IN A: ARROV	V SET 1-XS,	PKR	PACKER AT	:	6420	FEET:	
OTHER D	ATA								
A .	IS THIS A NEW WELL DRILLED FOR IN	JECTION?	YES	x	NO				
	IF NO, FOR WHAT PURPOSE WAS TH	E WELL ORIGINALLY DI	RILLED?		- PRODUCI	ING OIL AN	D GAS WE	LL	
8.	NAME THE INJECTION FORMATION:	6400' S	AND (BRUSI	Y CANYO	N)		.		
c.	NAME THE FIELD OR POOL (IF APPLIC	CABLE)	LUSK WE	ST (DELA	WARE)		·		······································
D.	HAS THE WELL EVER BEEN PERFORM DETAIL, I.E. SACKS OF CEMENT OR I								
	U. DELAWARE PERFS 4856'-4	867' PLAN TO SQZ	Z OFF U. DEL	AWARE C	ONVERT TO	O WIW IN 64	469'-6503' F	PERFS	
E.	GIVE THE NAME(S) AND DEPTH(S) OF	ANY OVER OR UNDER	RLYING OIL OR	GAS ZONES	IN THIS AREA	·			
	1. YATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES		5. STRAV	NN 11000'-	11200'	LUSK STR	RAWN OIL	
		S. LUSK YATES		6. ATOK	A 11200'-11	400'	LUSK ATO	KA GAS	
	2. DELAWARE 4600'-7100'	W. LUSK DELAWARE		7. MORR	OW 11500	-12000'		RROW GAS	GAS
	2 PONE EDDING ASSOCIACES	VAVATIVINO DOSSE						ORROW GA	
	3. BONE SPRING 8200'-8950'	LUSK BONE SPR		_			FORM (C-108	
		S. LUSK BONE SI	PRING			APPLIC	SECTIO		M
		E. LUSK BONE SI	PRING			Jan 4 mate	TO INJ	ECT	
	4. WOLF CAMP 10100'-10700'						Parker & F	ent L.P.	
		E. LUSK WOLFCA					VATER INJECT BULATION OF	TION WELL WELL DATA	

PP^OSED INJECTION WELL DATA SHEET -

OPERATOR:	SHACKELFORD	OIL CO.		LEASE:	MOBIL FE	EDERAL			
WELL NO	1 1650' FNL	& 330' FWI	•	SEC-21		T-19-S		R-32-E	
SCHEN	FOOTAGE L	OCATION		SECTION		TOWNSHIP		RANGE	
SOURCE III	111118881888				WELL CO	ONSTRUCTION	N DATA		
		1. SUFACI	ECASING						
		SIZE:	13-3/8	INCHES	СЕМЕ	NTED WITH:		475	sx_
13-3/8"	461'	TOC:	Surface		FEET DETE	ERMINED BY:		Circulated	
		HOLE SIZE:		17-1/2		INCHES			
						_			
		2. INTERM						000	
8-5/8"	4257'	SIZE:	8-5/8	INCHES	CEME	NTED WITH:		860	SX
	CURRENT U.DELAWARE	TOC:	Surface		FEET DETE	ERMINED BY:		Circulated	
	PERFS 4874'-5040'	HOLE SIZE:		12-1/4		NCHES			
HE X	PROPOSED TO CMT SQZ OFF U. DEL.	3. LONG S	TRING						
		SIZE:	5-1/2	INCHES	. CEME	NTED WITH:		875	sx
		TOC:	4248		FEET DETE	ERMINED BY:	T	emp. Survey	
		HOLE SIZE:		7-7/8		INCHES			
		4. INJECT	ION INTER	VAL	6469	FEET TO:		6479 FEET	
×	☑ PKR @			(PERFORAT	ED OR OPE	N HOLE ; INDICA			
	6400'			Pt	RFORA	IED			
F44 1	# 6460'-6470'	5. TOTAL	DEPTH:		6700	FEET			
		6. TUBING	SIZE					•	
5-1/2"	6692'	SIZE:	2-7/8	INCHES	LINED WIT	'н: <u>• И</u>	PC 505 - I	PLASTIC COATING	
		SET IN A:	ARROW S	SET 1-XS,	PKR	PACKER AT:		6400 FEET:	
OTHER DATA									
A. IS THIS	A NEW WELL DRILLED FOR II	NJECTION?		YES	X	NO			
IF NO. I	FOR WHAT PURPOSE WAS TH	E WELL ORIG	INALLY DRILI	LED?		 PRODUCIN	G OIL AN	ID GAS WELL	
									
B. NAME 1	THE INJECTION FORMATION:		6400' SAN	ID (BRUSH	Y CANYO	ON)	· · · · · · · · · · · · · · · · · · ·		
C. NAME 1	THE FIELD OR POOL (IF APPLI	CABLE)		LUSK WE	ST (DELA	WARE)		· · · · · · · · · · · · · · · · · · ·	
	HE WELL EVER BEEN PERFOR L, I.E. SACKS OF CEMENT OR							D GIVE PLUGGED D' CIBP @ 5183'	<u> </u>
5/92 P	PERFS 4874'-4892' CIBP (@ 4940', CI	URRENTLY	PRODUC	ING FROM	M U. DELAWAI	RE PERF	S 4874'-4892'	
E. GIVE T	HE NAME(S) AND DEPTH(S) O	F ANY OVER (OR UNDERLY	ING OIL OR (SAS ZONES	IN THIS AREA:			
1. YA	TES 2600'-2800'	WATKINS	YATES		5. STRA	WN 11000'-11	200'	LUSK STRAWN OI	L
		N.E. LUSK		-	6 ATOK	A 11200'-1140	no'	LUSK ATOKA GAS	
י חבו	A A A A A B E 4600' 7100'		······································	- -		7.17 - 17.1			······································
<u>2. UEI</u>	LAWARE 4600'-7100'	LUSK DE	DELAWAR LAWARE	= -	1. MURI	ROW 11500'-1	2000	N.W. LUSK MORRO	OW GAS
3. BO	NE SPRING 8200'-8950'	WATKINS	BONE SP	RING				N. LUSK MORROV	V GAS
		LUSK BO	NE SPRINC	3	_			FORM C-108	
•			BONE SPR		-		APPL	SECTION (II) ICATION FOR AUTHORI	ZATION
A 1810	N F CAMB 40400 40700		 	· · · · · · · · · · · · · · · · · · ·	-			TO INJECT Parker & Paraley	
4. VVC	DLF CAMP 10100'-10700'	E. LUSK \	VOLFCAM	POIL				Development L.P. WATER INJECTION WEI	LL
		S. LUSK	WOLFCAMI	P OIL	-				

P POSED INJECTION WELL DATA SHEET

Parker & Parsley Development L.P. LEASE: LUSK DEEP UNIT "A" **OPERATOR:** R-32-E T-19-S SEC-20 330' FNL & 330' FEL WELL NO 17 FOOTAGE LOCATION SECTION TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 1000 SX INCHES CEMENTED WITH: SIZE: 882 Circulated Surface FEET DETERMINED BY: TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 8-5/8 INCHES 1450 SX CEMENTED WITH: SIZE: 4510 Circulated TOC: Surface FEET DETERMINED BY: 12-1/4 HOLE SIZE: INCHES 3. LONG STRING 5-1/2 INCHES 800 SIZE: CEMENTED WITH: SX 2790 CALCULATED FEET DETERMINED BY: TOC: 7-7/8 HOLE SIZE: 4. INJECTION INTERVAL 6476 FEET TO: 6484 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6400 7224 FEET PERFS 5. TOTAL DEPTH: 6476'-6484' 6. TUBING SIZE 5-1/2" 2-7/8 INCHES IPC 505 - PLASTIC COATING LINED WITH: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 FEET: OTHER DATA X 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 NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) В. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. 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. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 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** W. LUSK DELAWARE 2. DELAWARE 4600'-7100' 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

Development L.P. WATER INJECTION WELL

POSED INJECTION WELL DATA SHEET

OPERAT	OR:	SHACK	ELFORD OIL	_ CO.	L	EASE:	MOBIL FE	DERAL			
WELL NO	o	4	1650' FWL & 2	2310' FSL	9	SEC-21		T-19-S		R-32-E	
	SCHEMA		FOOTAGE LOCA	TION	3			ONSTRUCTION		NAMOL	
-			1. 9	SUFACE CA	SING		WELL CC	JNS I RUCIIC	NUAIA		
			SIZE	E: 1	3-3/8	INCHES	СЕМЕ	NTED WITH:		475	sx
								RMINED BY:			-
				LE SIZE:							
				INTERMIDIA						A1/A	
13-3/8"		477								N/A	
	X									N/A	
			HOL	LE SIZE:		N/A		INCHES			
			3. l	LONG STRII	NG.						
			SIZE	E:	5-1/2	INCHES	CEME	NTED WITH:		2620	sx
			тос	c: Sur	face	· · · · · · · · · · · · · · · · · · ·	FEET DETE	ERMINED BY:	UTD WG20	Circulated SXS TO CIRCULATE.	
				LE SIZE:					WIT D VV/720	SAS TO CIRCULATE.	
			4. I	INJECTION						6476 FEET	
		≥ PKR @ 6400'			-		ERFORA	N HOLE; INDIC TED"	CATE WHICH	1)	
		PERFS	5. 1	TOTAL DEP	TH:		7230	FEET			
	CII	6468'-64 BP CIBP @	76'	TUBING SIZ				_			
5-	1/2"	7193'	SIZ	χE: 2-	-7/8 ı	NCHES	LINED WIT	H:	IPC 505 -	PLASTIC COATING	
			SET	TINA: ARF	ROW SE	ET 1-XS,	PKR	PACKER AT:		6400 FEET:	
•							i di eloli, de electrica de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición dela composición del composición dela	•	·		
OTHER I	DATA										
A.	IS THIS A	NEW WELL DI	RILLED FOR INJEC	TION?	·	YES	<u> </u>	NO			
	IF NO, FO	OR WHAT PURF	POSE WAS THE WE	ELL ORIGINALI	Y DRILLI	ED?		PRODUCII	NG OIL AN	ID GAS WELL	
								·····			
В.	NAME TH	IE INJECTION I	FORMATION:	640	0' SANI	D (BRUSH	IY CANYO)N)			····
C.	NAME T	IE FIELD OR PO	OOL (IF APPLICABL	LE)		LUSK WE	ST (DELA	WARE)			
D.			EEN PERFORATED			(S)? LIST AI NO	LL SUCH PE	RFORATED INT	ERVALS AN	D GIVE PLUGGED	
											
E.	GIVE TH	E NAME(S) AND	DEPTH(S) OF AN	Y OVER OR UI	NDERLYII	NG OIL OR (GAS ZONES	IN THIS AREA:		78- ²⁸	
	1. YAT	ES 2600'-28		ATKINS YAT			5. STRA	WN 11000'-1	1200'	LUSK STRAWN OIL	<u> </u>
			-	E. LUSK YA LUSK YATE			6. ATOK	A 11200'-11	400'	LUSK ATOKA GAS	
	2. DEL	AWARE 460		LUSK DEL			7. MORF	ROW 11500'-	12000'	LUSK MORROW G	
	0.50	E ADDUSA		JSK DELAW						N.W. LUSK MORRO N. LUSK MORROW	
	3. BON	E SPRING		IATKINS BOI USK BONE S			_			FORM C-108	
			S.	. LUSK BON	E SPRII	NG			APPI	SECTION III ICATION FOR AUTHORIZ	MOITA
				. LUSK BON					, .	TO INJECT Parker & Parsley	
	4. WOI	FCAMP 10	100'-10700' LL	USK WOLFC . LUSK WOL						Development L.P. WATER INJECTION WEL	1
				LUSK WOL						WALLER HOROTTON WEL	•

		.0					
SHACKELFOR	DOIL			PLAINS UN	ĮĮT		
OPERATOR				LEASE			
		1980' FSL & 660' FWI					******
WELL NO	D.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WE	LL:	PRODUCING OIL AN	D GAS WEI	<u>L</u>	SPUD DATE:	7/10/96	<u> </u>
SCHEMA	ATIC	1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx
13-3/8"		TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
	825	HOLE SIZE:		17-1/2	INCHES		
		2. INTERN	MIDIATE CA	SING			
10-3/4"		SIZE:	10-3/4	INCHES	CEMENTED WITH:	700	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
		HOLE SIZE:		12-1/4	INCHES		
10-3/4"	2651'	3. INTERN	MIDIATE CA	SING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	275	sx
		TOC:	3335		FEET DETERMINED BY:	Calculate	<u>:d</u>
		HOLE SIZE:		11	INCHES		
8_5/8"	4490'	4. LONG	STRING				
8-5/8"	4490'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	200	SX
		TOC:	10714	· · · · · · · · · · · · · · · · · · ·	FEET DETERMINED BY:	Calculate	<u>:d</u>
	N. A. S.	HOLE SIZE:		7-7/8	INCHES		
		5. TOTAL	DEPTH:	11690	FEET		
		6. PERFO	RATIONS	11516	FFFT TO	11530	CEFT
				11516 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDIC	CATE WHICH)	FEET
					"PERFORATE	ED" Form C-108	
					ADDI ICATI	SECTION VI ON FOR AUTHORIZA	ATION
35 UK	PERFS 11516'-1153	o•			AFFECATI	TO INJECT	(TION
					Pa	arker & Parsley	
5-1/2"	11690					velopment L.P.	
	\checkmark					ER INJECTION WELL ATION OF WELL DAT	
	/						

SHAC	KELFORI	OOL				MOBIL FE	DERAL			
OPERAT	OR					LEASE				
_	2		1650' Fi	NL & 1650' FV	VL	SEC-21	T-19-S	R-32-	E	
	WELL NO).	FOOTAGE	LOCATION		SECTION	TOWNSHIP	RANGE	:	
	TYPE OF WE	LL:	PRODU	CING OIL AN	D GAS WE	LL	SPUD DATE	E:8/3	0/88	
	SCHEMA	ATIC		1. SUFAC	E CASING		TABULAR DATA			
				SIZE:	13-3/8	INCHES	CEMENTED WITH:	47	'5	sx
				TOC:	Surface		FEET DETERMINED BY:	Circu	ulated	
				HOLE SIZE:		17-1/2	INCHES			
		454		2. INTERN	MIDIATE CA	SING				
				SIZE:	N/A	INCHES	CEMENTED WITH:	N/	<u>'A</u>	sx
				TOC:	N/A	-	FEET DETERMINED BY:	N/	Α	
				HOLE SIZE:		N/A	INCHES			
13-3/8		454	,'	3. LONG	STRING					
	, ,			SIZE:	5-1/2	INCHES	CEMENTED WITH:	16	55	sx
				TOC:	5997	·	FEET DETERMINED BY:	Calcu	lation	
				HOLE SIZE:		11 & 7-7/8	INCHES			
				4. TOTAL	DEPTH:	6690	FEET			
	,			5. PERFO	RATIONS	6490	FEET TO:	6495	FEET	
	And the state of t					(PERFORAT	ED OR OPEN HOLE; INC "PERFORA"			
	A Part of the second se									
						~				
								FORM C-108 SECTION VI		
	. Dansel (1997)	PERF 6490-					APPLICAT	TON FOR AUTHOR	RIZATION	
		PERF 6490						arker & Parsley		
5- ⁻	1/2"	6690					D	evelopment L.F	'.	

WATER INJECTION WELL

						
CKELFORD OIL			MOBIL FE	DERAL		
TOR		· · · · · · · · · · · · · · · · · · ·	LEASE			
3		L	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	1. SUFAC	E CASING		TABULAR DATA		
	SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx
	TOC:	Surface		FEET DETERMINED BY:	Circula	ited
T22694	HOLE SIZE:		17-1/2	INCHES		
	2. INTERM					
	SIZE:	8-5/8	INCHES	CEMENTED WITH:	1090	sx
	TOC:	150		FEET DETERMINED BY:	Temp. Su	ırvey
	HOLE SIZE:		11	INCHES		
4256	3. LONG	STRING			•	
	SIZE:	5-1/2	INCHES	CEMENTED WITH:	1000	sx
	TOC:	3240		FEET DETERMINED BY:	Calcula	ted
	HOLE SIZE:		7-7/8	INCHES		
	4. TOTAL	DEPTH:	7240	FEET		
	. 5. PERFO	RATIONS	6470	- 	6495	cert
	·			ED OR OPEN HOLE; INDIC	ATE WHICH)	FEET
	WELL NO. TYPE OF WELL: SCHEMATIC 4256	TOR 3 2310' FSL & 330' FWI WELL NO. FOOTAGE LOCATION TYPE OF WELL: PRODUCING OIL AN SCHEMATIC 1. SUFAC SIZE: TOC: HOLE SIZE: HOLE SIZE:	3 2310' FSL & 330' FWL WELL NO. FOOTAGE LOCATION TYPE OF WELL: PRODUCING OIL AND GAS WEL SCHEMATIC 1. SUFACE CASING SIZE: 13-3/8 TOC: Surface HOLE SIZE: 2. INTERMIDIATE CA SIZE: 8-5/8 TOC: 150 HOLE SIZE: 3. LONG STRING SIZE: 5-1/2 TOC: 3240 HOLE SIZE:	3 2310' FSL & 330' FWL SEC-21 WELL NO. FOOTAGE LOCATION SECTION TYPE OF WELL: PRODUCING OIL AND GAS WELL SCHEMATIC 1. SUFACE CASING SIZE: 13-3/8 INCHES TOC: Surface HOLE SIZE: 17-1/2 2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES TOC: 150 HOLE SIZE: 11 3. LONG STRING SIZE: 5-1/2 INCHES TOC: 3240 HOLE SIZE: 7-7/8	TOR LEASE 3 2310' FSL & 330' FWL SEC-21 T-19-S WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: SCHEMATIC 1. SUFACE CASING SIZE: 13-3/8 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: TOC: 150 FEET DETERMINED BY: HOLE SIZE: 11 INCHES 3. LONG STRING SIZE: 5-1/2 INCHES CEMENTED WITH: TOC: 3240 FEET DETERMINED BY: HOLE SIZE: 7-7/8 INCHES	SCHEMATIC SEC.21 T-19-S R-32-E

TBG @ PERFS 6478'-4

TBG @ 7111'

6478'-6485'

PERFS

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

SHA	CKELFOR	RD OIL			AMOCO FEDERAL					
OPERA	TOR				LEASE					
			660' FNL & 330' FWL							
	WELL NO. FOOTAGE		FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE			
	TYPE OF W	ÆLL:	PRODUCING OIL AN	D GAS WEI	LL	SPUD DATE:	9/23/88			
						TABLE AB BATA				
	SCHE	WATIC	1. SUFAC	E CASING		TABULAR DATA				
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx		
			TOC:	Surface	-	FEET DETERMINED BY:	Circulate	:d		
13-3/8"	288	450'	HOLE SIZE:		17-1/2	INCHES				
			2. INTERN	MIDIATE CA	SING					
	A		SIZE:	8	INCHES	CEMENTED WITH:	2150	SX		
	A VANCA MARIA	4250'	TOC:	Surface		FEET DETERMINED BY:	Circulate	<u>d</u>		
	8"		HOLE SIZE:		11	INCHES				
	8"	4250'	3. LONG	STRING						
	WILWATIVATEW		SIZE:	5-1/2	INCHES	CEMENTED WITH:	525	sx		
			TOC:	4550		FEET DETERMINED BY:	Temp. Surv	/ey		
			HOLE SIZE:		7-7/8	INCHES				
			4. TOTAL	DEPTH:	6650	FEET				
			5. PERFO	RATIONS	6400	' SEET TO	6493	FC		
		PERFS	•		6490 (PERFORAT	FEET TO:		FEET		
		PERFS 4892'-4900	6'			"PERFORATI				
					æ.		FORM C-108			
	7	PERFS				4 2 2 1 4 4 7 1	SECTION VI	T 1011		
		6490'-649	3'			APPLICATI	ON FOR AUTHORIZA TO INJECT	HUN		
							rker & Parsley velopment L.P.			
	5-1/2"	6650'				56	. T. ob			

WATER INJECTION WELL TABULATION OF WELL DATA

Parker & Parsley

-			_	_	-			_		- 3	
D	ev	el	0	p	me	?[11	t	L	P	

LUSK DEEP "A"

OPERATOR

13-3/8"

8-5/8"

WELL NO.

1651' FNL & 330' FEL

SEC-20

T-19-S

R-32-E

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

TYPE OF WELL:

PRODUCING OIL AND GAS WELL

SPUD DATE: 11/22/88

SCHEMATIC

1. SUFACE CASING

13-3/8 INCHES CEMENTED WITH:

SX

SIZE:

TOC: Surface FEET DETERMINED BY: Circulated

TABULAR DATA

HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE 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

6468'-6478'

4 SXS CMT CIBP @ 7030°

7220'

TOC: 4690 FEET DETERMINED BY: Temp. Survey

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7220

FEET

5. PERFORATIONS

6468

FEET TO:

6478

(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

SHACKELFORD OIL				PLAINS FE	DERAL		
OPERATOR				LEASE			
4	1930' FSL &	660' FWL		SEC-21	T-19-S	R-32-E	
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED 8	ABANDONI	€D	-	SPUD DATE:	9/12	/63
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
	25 SXS CMT 35'-SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	725	sx
		TOC:	Surface		FEET DETERMINED BY:	Circula	ated
13-3/8"	831'	HOLE SIZE:		17-1/2	INCHES		
	150 SXS CMT @723'-930'	2. INTERN	NIDIATE CA	SING			
		SIZE:	9-5/8	INCHES	CEMENTED WITH:	1000	S>
	2000 SXS CMT	TOC:	Surface		FEET DETERMINED BY:	Circula	ated
	@2336'-2445'	HOLE SIZE:		11	INCHES		
		3. LONG S	STRING				
9-5/8" 🕮	4290'	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. PERFO	RATIONS	N/A	FEET TO:	N/A	FEET
-		E HAS TI	ie wei i e		ED OR OPEN HOLE; INDI PERFORATED" PERFORATED IN AN		12
W	DADED HOLE ITH MUD TO 45'	LIST A	LL SUCH P	ERFORATE	ED INTERVALS AND C	SIVE PLUGGED	NONE
			•	~		FORM C-108 SECTION VI	
					APF	LICATION FOR AUTHO TO INJECT	RIZATION
		•				Parker & Parsiey Development L.P	

WATER INJECTION WELL
TABULATION OF WELL DATA

SHACKELFORD OF	L			LYNCH			*
OPERATOR		-		LEASE			
2	1980' FSL &	660' FWL		SEC-21	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOC	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED 8	& ABANDONI	ED	_	SPUD DATE:	4/11/42	<u> </u>
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
	10 SXS CMT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	50	SX
	100-3011 ACE	TOC:	Surface	· · · · · · · · · · · · · · · · · · ·	FEET DETERMINED BY:	Circulate	ed
		HOLE SIZE:		11	INCHES		
		2. INTERN	MIDIATE C	ASING			
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	s:
		TOC:	N/A		FEET DETERMINED BY:	N/A	
		HOLE SIZE:	 	N/A	INCHES		
8-5/8"	905'	3. LONG	STRING				
CIBP	10 SXS CMT CIBP @ 915'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	100	S>
		TOC:	2400		FEET DETERMINED BY:	Temp. Sur	vey
CIBP		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	2820	FEET		
		5. PERFO	RATIONS	2680	· FEET TO:	295 5 ·	FEET
					ED OR OPEN HOLE; INDICA PERFORATED"		_'``
CIBP		LIST A	LL SUCH F	PERFORATE	PERFORATED IN ANY OF THE PERFORATE PROPERTY OF PLUG(S) USED	/E PLUGGED	NONE
					· · · · · · · · · · · · · · · · · · ·	FORM C-108 SECTION VI	
	CUT OFF 5-1/2" CSG				APPI 16	CATION FOR AUTHORE	ZATION

TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

TABULATION OF WELL DATA

@ 2110 6 SXS CMT

6 SXS GRAVI TD TO GRAVEL FROM TD TO 2525'

-			% 9	+ 1	3 4	2,6 %	4-B #1-A
•1	18 +1	1 	17 •••	- 	16		15 ×3-A 5-A
	1/2	25	AQUE SO AGG FED	ACT 1 LUSK STATE I	•	2-B ●	≠ 2-A
+ 1	\$ 3	•1	/	17 AMOCO	AMOCO FEDERAL	/ 1	ф г
1 •	1 2 1		% 7	LUSX DEEP UNIT "A"	Mail IS FEDERAL AL CENTRAL TAMTIC EXCAL	• 1	22
≈ 6	1 /		▼ 14	4 4	•3		2 •
	• 1	• 1	, €2 8	▲ ¹¹ ★ ¹	• 2	• 1	•1
•1	30	1 3 1 2	7, 10 5, 1 5, 3 6, 4 1, 2 1, 12	1 2 3 3-Y	28 \$5	JK.	27
1 •		• 1	•4 1, 6	1 2 7	*		
	31	1,56	32 °1 *3 +5	% 2 4	33		34

PF OSED INJECTION WELL DATA SHEFT

OPERATOR:	SHACKELFORD	OIL CO.	LEASE:	MOBIL F	EDERAL			
WELL NO	1 1650' FNL	& 330' FW	SEC-21				R-32-E	
SCHEN		OCATION	SECTION		TOWNSHIP	ı	RANGE	
		1. SUFACI	E CASING	WELL C	ONSTRUCTION	DATA		
		\$17 F -	13-3/8 інсн	ES CEMI	ENTED WITH:		475	sx
13-3/8"	461'		Surface					
		TOC:	Surface	FEET DET	ERMINED BT.		Onculated	
		HOLE SIZE:	17-1/2		INCHES			
		2. INTERN	IIDIATE CASING					
0.5101	4257'	SIZE:	8-5/8 INCH	ES CEM	ENTED WITH:		860	sx
8-5/8"	CURRENT	TOC:	Surface	FEET DET	ERMINED BY:	(Circulated	
	U.DELAWARE PERFS 4874'-5040'	HOLE SIZE:	12-1/4		INCHES			
X	PROPOSED TO CMT							
		SIZE:	5-1/2 INCH	ES · CEM	ENTED WITH:		875	sx
		TOC:	4248	FEET DET	FERMINED BY:	Τε	emp. Survey	
			7-7					
			ION INTERVAL				6479 FEET	
, a	☑ PKR @	4. MOLOT	(PERFOR	ATED OR OP	EN HOLE; INDICA			
	6400'		•	PERFORA	ATED"			
E 121	(166	5. TOTAL	DEPTH:	6700	FEET			·
	6469'-6479'	6. TUBING	S SIZE					
5-1/2"	6692'	SIZE:	2-7/8 INCHES	LINED WI	тн: • ІР	°C 505 - F	PLASTIC COATING	
		SET IN A:	ARROW SET 1-XS	S, PKR	PACKER AT:		6400 FEET:	
								
OTHER DATA								
A. IS THIS	A NEW WELL DRILLED FOR IN	JECTION?	YES	X	NO			
IF NO. I	FOR WHAT PURPOSE WAS TH	E WELL ORIG	SINALLY DRILLED?		PRODUCING	3 OIL AN	D GAS WELL	
•								
								
	THE INJECTION FORMATION:		6400' SAND (BRU	**************************************	· · · · · · · · · · · · · · · · · · ·			
C. NAME	THE FIELD OR POOL (IF APPLI	CABLE)	LUSK	VEST (DEL	AWARE)			
	IE WELL EVER BEEN PERFOR L, I.E. SACKS OF CEMENT OR							
5/92 F	PERFS 4874'-4892' CIBP (@ 4940', C	URRENTLY PRODI	JCING FRO	M U. DELAWAR	RE PERF	S 4874'-4892'	
E. GIVE T	HE NAME(S) AND DEPTH(S) O	F ANY OVER	OR UNDERLYING OIL C	R GAS ZONE	S IN THIS AREA:		· · · · · · · · · · · · · · · · · · ·	
1. YA	TES 2600'-2800'	WATKINS		5. STR	AWN 11000'-11:	200'	LUSK STRAWN OIL	
		N.E. LUS S. LUSK		6. ATO	KA 11200'-1140	O'	LUSK ATOKA GAS	
2. DE	LAWARE 4600'-7100'	W. LUSK	DELAWARE	7. MOR	ROW 11500'-12	2000'	LUSK MORROW GAS	 S
		LUSK DE	LAWARE				N.W. LUSK MORROV	V GAS
3. BO	NE SPRING 8200'-8950'		BONE SPRING				N. LUSK MORROW G)AS
			NE SPRING BONE SPRING				FORM C-108 SECTION III	
		-	BONE SPRING			APPLI	CATION FOR AUTHORIZA	TION
A W/C	DLF CAMP 10100'-10700'	LUSKW	OLECAMP OIL				TO INJECT Parker & Parsley Development L.P.	
7. ***		E. LUSK	WOLFCAMP OIL			1	WATER INJECTION WELL	
		5. LUSK	WOLFCAMP OIL					

PF POSED INJECTION WELL DATA SHEET

OPERATOR:	SHACKELFORD	OIL CO.	LEASE:	AMOCO FEDERAL	, <u></u>	
WELL NO	2 990' FNL 8	& 1650' FWL	SEC-21	T-19-S	R-32-E	
	FOOTAGE L	OCATION	SECTION	TOWNSHIP	KANGE	
		1. SUFACE CASI		WELL CONSTRUCT	ION DATA	
13-3/8"	459'	SIZE: 13-	-3/8 inches	CEMENTED WITH:	475	sx
13-3/8		TOC: Surfac	се	FEET DETERMINED BY:	Circulated	
		HOLE SIZE:	17-1/2	INCHES		
		2. INTERMIDIATE	E CASING			
8-5/8"	4250'	SIZE: 8-	-5/8 INCHES	CEMENTED WITH:	100	SX
8-5/6		тос: Surfa	се	FEET DETERMINED BY:	NOTE: PULLED 3088' 8-8/5" CSG Circulated	
		HOLE SIZE:	12-1/4	:INCHES		
		3. LONG STRING	3			
		SIZE: 5	-1/2 INCHES		2250	sx_
		roc Surfa	C A		IPED 1575 SXS CMT FROM TOPSIDE Circulated	
				_	Circulated	
				INCHES	6503 FEET	
	X PKR @ 6420'	4. INJECTION IN	(PERFORAT	ERFORATED"		
	PERFS	5. TOTAL DEPTI	Н:	6700 FEET		
	6489'-6503'	6. TUBING SIZE				
5-1 <i>[2</i> "	6650'	SIZE: 2-7	7/8 INCHES	LINED WITH:	IPC 505 - PLASTIC COATING	
		SET IN A: ARRO	OW SET 1-XS,	PKR PACKER A	т: 6420 геет:	
OTHER DATA					\$ *	
A. IS TH	HIS A NEW WELL DRILLED FOR II	NJECTION?	YES	Х мо		
IF NO	O, FOR WHAT PURPOSE WAS TH	HE WELL ORIGINALLY	DRILLED?	PRODUC	CING OIL AND GAS WELL	
B. NAM	E THE INJECTION FORMATION:	6400'	SAND (BRUS	HY CANYON)	·	
C. NAM	IE THE FIELD OR POOL (IF APPL	ICABLE)	LUSK WE	ST (DELAWARE)		
	THE WELL EVER BEEN PERFOR				NTERVALS AND GIVE PLUGGED 95' CURRENTLY PRODUCING FROM	-
U.	DELAWARE PERFS 4856'-	4867' PLAN TO SC	QZ OFF U. DEL	AWARE CONVERT 1	O WIW IN 6469'-6503' PERFS	
E. GIVE	E THE NAME(S) AND DEPTH(S) C	F ANY OVER OR UND	ERLYING OIL OR	GAS ZONES IN THIS ARE	A:	
<u>1. Y</u>	/ATES 2600'-2800'	WATKINS YATE		5. STRAWN 11000	'-11200' LUSK STRAWN OI	<u>L</u>
		N.E. LUSK YATE		6. ATOKA 11200'-1	1400' LUSK ATOKA GAS	
<u>2. [</u>	DELAWARE 4600'-7100'	W. LUSK DELAV		7. MORROW 1150	0'-12000' LUSK MORROW G	
	DONE CODINO BOOK COTO		····		N. LUSK MORROV	
3. t	BONE SPRING 8200'-8950'	LUSK BONE SP			FORM C-108	
		S. LUSK BONE	SPRING		SECTION III APPLICATION FOR AUTHORIZ	ATION
		E. LUSK BONE	SPRING	-	TO INJECT	AHUM
4. \	WOLF CAMP 10100'-10700	LUSK WOLFCA	MP OIL		Parker & Parsley Development L.P.	
<u></u>		E. LUSK WOLF	CAMP OIL		WATER INJECTION WELI	
		S. LUSK WOLF	CAMP OII	_	TABULATION OF WELL DA	IA

PP >POSED INJECTION WELL DATA SHEET Parker & Parsley LEASE: LUSK DEEP UNIT "A" Development L.P. **OPERATOR:** R-32-E SEC-20 1660' FNL & 2300' FEL T-19-S WELL NO FOOTAGE LOCATION SECTION TOWNSHIP RANGE **SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 500 SIZE: 13-3/8" FEET DETERMINED BY: Circulated TOC: Surface 17-1/2 HOLE SIZE: 2. INTERMIDIATE CASING 1650 SIZE: 8-5/8 INCHES CEMENTED WITH: SX 4482 FEET DETERMINED BY: _____ Temp. Survey 1350 TOC: 11 INCHES 3. LONG STRING 800 5-1/2 SIZE: INCHES · CEMENTED WITH: SX 2710 FEET DETERMINED BY: Temp. Survey TOC: 7-7/8 HOLE SIZE: INCHES 4. INJECTION INTERVAL 6467 FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6370 5. TOTAL DEPTH: _____6700 FEET PERFS 6446'-6467' 6. TUBING SIZE 6683 LINED WITH: PC 505 - PLASTIC COATING 5-1/2" 2-7/8 INCHES SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6370 OTHER DATA IS THIS A NEW WELL DRILLED FOR INJECTION?

YES Х PRODUCING OIL AND GAS WELL IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? COMMENT: SPUD WELL 11/2/74. P&A WELLBORE 8/27/86. RE-ENTRY 4/12/89 6400' SAND (BRUSHY CANYON) В. NAME THE INJECTION FORMATION: NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. 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 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

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL

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

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

PPOSED INJECTION WELL DATA SHEFT

Parker & Parsley LEASE: LUSK DEEP UNIT "A" Development L.P. **OPERATOR:** R-32-E 330' FNL & 330' FEL SEC-20 T-19-S WELL NO FOOTAGE LOCATION SECTION TOWNSHIP RANGE **SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 1000 SX SIZE: 882 Surface FEET DETERMINED BY: Circulated TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING INCHES 1450 8-5/8 CEMENTED WITH: SX SIZE: 4510 Circulated TOC: Surface FEET DETERMINED BY: 12-1/4 INCHES HOLE SIZE: 3. LONG STRING 800 SIZE: 5-1/2 INCHES CEMENTED WITH: SX CALCULATED 2790 TOC: FEET DETERMINED BY: 7-7/8 HOLE SIZE: INCHES 4. INJECTION INTERVAL 6476 FEET TO: 6484 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6400 PERFS 5. TOTAL DEPTH: 7224 FEET 6476'-6484' 6. TUBING SIZE 7220 5-1/2 SIZE: 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 **OTHER DATA** Х 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 NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) B. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: F 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 **FORM C-108** SECTION III S. LUSK BONE SPRING **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT

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

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

Parker & Parsley

Development L.P. WATER INJECTION WELL

"" OSED INJECTION WELL DATA SHEFT

Parker & Parsley LEASE: : LUSK DEEP UNIT "A" Development L.P. OPERATOR: R-32-E T-19-S **SEC-20** 660' FEL & 2310' FSL WELL NO **FOOTAGE LOCATION** SECTION . TOWNSHIP RANGE **SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 CEMENTED WITH: 900 SX INCHES SIZE: 872 13-3/8" FEET DETERMINED BY: Circulated TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING SX 2350 8-5/8 INCHES CEMENTED WITH: SIZE: 4485 Circulated Surface FEET DETERMINED BY: TOC: HOLE SIZE: 12-1/4 INCHES 3. LONG STRING 800 5-1/2 INCHES CEMENTED WITH: SX SIZE: Temp. Survey 3030 FEET DETERMINED BY: TOC: 7-7/8 INCHES HOLE SIZE: 6487 4. INJECTION INTERVAL 6469 FEET FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6400 PERES 7230 5. TOTAL DEPTH: FEET 6469'-6487' CIBP 6800' 6. TUBING SIZE 7230 5-1/2 SIZE: 2-7/8 INCHES LINED WITH: **IPC 505 - PLASTIC COATING** ARROW SET 1-XS, PKR 6400 SET IN A: PACKER AT: FEET: **OTHER DATA** IS THIS A NEW WELL DRILLED FOR INJECTION? X NO YES PRODUCING OIL AND GAS WELL IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: В. C. NAME THE FIELD OR POOL (IF APPLICABLE) **LUSK WEST (DELAWARE)** HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. PERFS 7050'-7154, SET CIBP, WITH 4 SK, CMT. ON TOP AT 6800' GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P E. LUSK WOLFCAMP OIL WATER INJECTION WELL

S LUSK WOLFCAMP OIL

POSED INJECTION WELL DATA SHEFT

OPERAT	OR:	SHACKELFORD	OIL CO.	ı	EASE:	MOBIL F	EDERAL				
WELL NO	O4	1650' FWL	& 2310' FS	L S	SEC-21		T-19-S		R-32-E		
	SCHEMAT		DCATION	S	SECTION		TOWNSHIP		RANGE		
-	Boul II F	TI Towal				WELL C	ONSTRUCTION	DATA			
			1. SUFACE	CASING							
			SIZE:	13-3/8	INCHES	СЕМЕ	NTED WITH:	.,	475		sx
			TOC:	Surface		FEET DET	ERMINED BY:		Circulated		
			HOLE SIZE:		17-1/2		INCHES				
				IDIATE CAS			_				
						CEME	NTED WITH:		N/A		sx
13-3/8"		477'									
			_				ERMINED BY:		N/A		
			HOLE SIZE:		N/A	•	INCHES				
			3. LONG S	TRING							
			SIZE:	5-1/2	INCHES	СЕМЕ	ENTED WITH:		2620		SX
			TOC:	Surface		FEET DET	ERMINED BY:	•	Circulated	l	
	<u>KI</u>					NOTE: 1" P	LUG TO 1336' CMT	'D W/720	SXS TO CIRC	ULATE.	
			-				FEET TO:		6476	EEET	
		⊠ PKR@	4. (1152011		PERFORAT	ED OR OPE	N HOLE; INDICA			•	
		6400'			"PE	RFORA	TED"				
		PERFS 6468'-6476'	5. TOTAL	DEPTH: _		7230	FEET				
	CIBP	_	6. TUBING	SIZE							
5-	-1/2"	7193'	SIZE:	2-7/8	INCHES	LINED WIT	гн: IP	C 505 -	PLASTIC C	OATING	
			SET IN A:	ARROW SE	ET 1-XS.	PKR	PACKER AT:		6400	FEET:	
	•				<u>-</u> -					-	
OTHER I	DATA										
A.	IS THIS A	NEW WELL DRILLED FOR IN	JECTION?		YES	X	NO				
	IF NO FOR	R WHAT PURPOSE WAS THI	- WELL ORIG	INALLY DRILLI	FD2		 PRODUCING	A IIO	UD GAS WE	:t 1	
	# NO, 101			TO LET DINEE		***************************************	1 Nobbonic	JOILTH	10 0/10 110		
В.	NAME THE	INJECTION FORMATION:	· · · · · · · · · · · · · · · · · · ·	6400' SANI	D (BBI 191	V CANV)NI				
C.		FIELD OR POOL (IF APPLIC	·		LUSK WE		· · · · · · · · · · · · · · · · · · ·				
D.		VELL EVER BEEN PERFORA E. SACKS OF CEMENT OR F			(S)? LIST AI NO	L SUCH PE	ERFORATED INTER	RVALS AN	ID GIVE PLUG	GED	
											
Е.	GIVE THE	NAME(S) AND DEPTH(S) OF	ANY OVER O	OR LINDERI VII	NG OIL OR (SAS ZONES	IN THIS ADEA:				
		S 2600'-2800'	WATKINS				WN 11000'-112		LUCK CTI	DANABL OIL	
	1. 17(12)	2000 2000	N.E. LUSK	YATES						RAWN OIL	
			S. LUSK Y		•	6. ATOK	(A 11200'-1140	0'	LUSK AT	OKA GAS	
	2. DELA	WARE 4600'-7100'	W. LUSK DEL	DELAWARE _AWARE		7. MOR	ROW 11500'-12	2000'		RROW GAS	
	3. BONE	SPRING 8200'-8950'	WATKING	BONE SPF	SING .					MORROW (
	J. DOINE			NE SPRING		_			FORM	C-108	
			S. LUSK E	ONE SPRI	NG	_		A DD4	SECT	ON III R AUTHORIZA	TION
			E. LUSK E	BONE SPRI	NG			AFFL	TO IN	JECT	HOM
	4. WOLF	CAMP 10100'-10700'	LUSK WO	LFCAMP O	lL.				Parker 8 Develops		
			E. LUSK V	VOLFCAME	OIL				WATER INJE		
			S. LUSK V	VOLFCAME	OIL						

SHA	CKELFORD OIL			MOBIL FE	DERAL		
OPERA	TOR			LEASE			······································
	3	2310' FSL & 330' FW	L	SEC-21	T-19-S	R-32-Е	
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PRODUCING OIL AN	ID GAS WE	LL	SPUD DATE:	10/25/89	
	001574750				TARIHAR BATA		
	SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	<u>d</u>
13-3/8"	455			17-1/2	INCHES		
		2. INTERM	MIDIATE CA	SING			
	4256'	SIZE:	8-5/8	INCHES	CEMENTED WITH:	1090	sx
		TOC:	150		FEET DETERMINED BY:	Temp. Surve	ey
		HOLE SIZE:		11	INCHES		
8-5/8"	4256'	3. LONG	STRING				
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	1000	sx
		TOC:	3240	l	FEET DETERMINED BY:	Calculated	<u>i</u>
		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	7240	FEET		
		5. PERFO	RATIONS	6478	FEET TO:	6485	FEET
				(PERFORAT	ED OR OPEN HOLE; INDI "PERFORATI		
							•
				ني		FORM C-108 SECTION VI	
	TBG @ 7 PERFS 6478'-64				APPLICATI	ON FOR AUTHORIZAT	ION
5-1	/2" 7240'					rker & Parsley velopment L.P.	

WATER INJECTION WELL

SHACKELFOR	DOIL			PLAINS U	NIT		
OPERATOR				LEASE	<u> </u>		
6		1980' FSL & 660' FWI		SEC-21	T_19_S	R-32-F	
WELL NO		FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WE	<u> </u>	PRODUCING OIL AN	D GAS WE	LL	SPUD DATE:	7/10/96	
					TABULAR DATA		
SCHEMA	ATIC	1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	825'	HOLE SIZE:		17-1/2	INCHES		
		2. INTERN	MIDIATE CA	SING			
		SIZE:	10-3/4	INCHES	CEMENTED WITH:	700	sx
10-3/4"	2651'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		12-1/4	INCHES		
10-3/4"	2651'		MIDIATE CA				
	259	SIZE:	8-5/8	INCHES	CEMENTED WITH:	275	Sx
		TOC:	3335		FEET DETERMINED BY:	Calculated	
		HOLE SIZE:		11	INCHES		
8-5/8"		4. LONG	STRING	·			
8-5/8"	4490'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	200	sx
		TOC:	10714		FEET DETERMINED BY:	Calculated	
	K.	HOLE SIZE:		7-7/8	INCHES		
		5. TOTAL	DEPTH:	11690	FEET		
		6. PERFO	RATIONS	11516	FEET TO:	11530 FEET	•
					ED OR OPEN HOLE; INDIC	ATE WHICH)	
					"PERFORATE	D" FORM C-108	
						SECTION VI	
	PERFS	· 			APPLICATIO	ON FOR AUTHORIZATION TO INJECT	İ
E 1000	11516'-1153	0.				rker & Parsley	
5-1/2"	11690'				De	velopment L.P.	

WATER INJECTION WELL TABULATION OF WELL DATA

RAY	WESTALL OPE	RATING COR	P.		LUSK "16"	STATE		
OPERA	ror .				LEASE			
	1	660' FSL	. & 660' FWL		SEC-16	T-19-S	R-32-E	•
	WELL NO.	FOOTAGE			SECTION		· · · · · · · · · · · · · · · · · · ·	
	TYPE OF WELL:	PRODUC	CING OIL AN	ID GAS WE	LL	SPUD DATE:	3/9/62	
	SCHEMATIC	mail vistra	1. SUFAC	E CASING		TABULAR DATA		
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	125	sx
		208'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"		208'	HOLE SIZE:		17-1/2	INCHES		
			2. INTERI	MIDIATE CA	ASING			
			SIZE:	9-5/8	INCHES	CEMENTED WITH:	500	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
			HOLE SIZE:		11	INCHES		
9-5/8		450'	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. PERFC	RATIONS				
					6503 (PERFORAT	FEET TO: ED OR OPEN HOLE; INDI	6509 FEET	
					,	"PERFORATI		
					Ž.		FORM C-108	
		TBG @ 6230°					SECTION VI	
		PERFS 6503'-6509'				APPLICATION	ON FOR AUTHORIZATION TO INJECT	
:	5-1/2"	· 6600°					rker & Parsley	

WATER INJECTION WELL

SHAC	CKELFORE	OIL			AMOCO F	EDERAL				
OPERA	TOR				LEASE					
	1		660' FNL & 330' FWL		SEC-21		T-19-S	R-32-	F	
	WELL NO.	•	FOOTAGE LOCATION		SECTION		TOWNSHIP			
	TYPE OF WEL	L:	PRODUCING OIL AN	D GAS WE	LL	-	SPUD DATE:	9/2	3/88	
	SCHEMA	TIME	1. SUFACI	E CASING		TABULAR	<u>DATA</u>			
			SIZE:	13-3/8	INCHES	CEMENTED	WITH:	47	5	sx
		450'	TOC:	Surface		FEET DETE	RMINED BY:	Circu	ılated	
13-3/8"		450'	HOLE SIZE:		17-1/2		INCHES			
			2. INTERM	IIDIATE CA	ASING					
	A CONTRACTOR OF THE CONTRACTOR		SĮZE:	8	INCHES	CEMENTED	WITH:	219	50	sx
	A		TOC:	Surface		FEET DETE	RMINED BY:	Circu	ılated	
			HOLE SIZE:	<u></u>	11		INCHES			
	S" wywnyan	4250	3. LONG S	STRING						
	m twestorto		SIZE:	5-1/2	INCHES	CEMENTED	WITH:	52	:5	sx
			TOC:	4550		FEET DETE	RMINED BY:	Temp.	Survey	
			HOLE SIZE:		7-7/8		INCHES			
			4. TOTAL	DEPTH:	6650		FEET			
			5. PERFO	RATIONS	6490		FEET TO:	6493	FEET	
		PERFS	•				-	CATE WHICH)		
		4892'-4906	•			"P	ERFORATI	ED"		
		PERFS 4892'-4906					-			
			·		~			FORM C-108	•	
								SECTION VI		
		PERFS 6490'-6493	•				APPLICATI	ON FOR AUTHOR	RIZATION	• •
	9	3.50						TO INJECT		Α.
		PERFS 6490'-6493					Pa	rker & Parsley	· •	
	5-1/2"	6650						velopment L.P		

WATER INJECTION WELL
TABULATION OF WELL DATA

SHACKELFORD OIL				MOBIL FEI	DERAL		
OPERATOR				LEASE			
2		L & 1650' FV	٧L	SEC-21	T-19-S	R-32-E	
WELL NO.	FOOTAGE	LOCATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PRODUC	CING OIL AN	D GAS WE	<u>LL</u>	SPUD DATE:	8/30/88	
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	<u> </u>
		HOLE SIZE:		17-1 <i>[</i> 2	INCHES		
12.2/8"		2. INTER	MIDIATE CA	SING			
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
		TOC:	N/A		FEET DETERMINED BY:	N/A	
		HOLE SIZE:		N/A	INCHES		•
13-3/8"	54'	3. LONG	STRING				
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	165	sx
		TOC:	5997		FEET DETERMINED 8Y:	Calculation	
		HOLE SIZE:		11 & 7-7/8	INCHES		
		4. TOTAL	DEPTH:	6690	FEET		
		5. PERFO	RATIONS	6490	FEET TO:	6495 r	FEET
					ED OR OPEN HOLE; INDI		
					"PERFORATI	ED" -	
				ميد			
						FORM C-108 SECTION VI	
1994 I 1994	RFS 10-6495				APPLICATION	ON FOR AUTHORIZATI	ION
641						irker & Parsley	
5-1/2" 2669	JŲ.				De	velopment L.P.	

WATER INJECTION WELL

LUSK DEEP UINIT "A"

OPERATOR				LEASE				
19	330'	FNL & 1656' FEL		SEC-20	T-19-S	R-32	!-E	
WELL NO.	FOOT	AGE LOCATION		SECTION	TOWNSHIE	RANG	E	
TYPE OF WELL:	PRO	DUCING OIL AND	GAS WEL	L	SPUD DATI	E: <u>1</u> ,	/26/90	
SCHEMATIC		1. SUFACE	CASING		TABULAR DATA			
		SIZE:		INCHES	CEMENTED WITH:	1(000	sx
13-3/8*		TOC:	Surface		FEET DETERMINED BY:	Circ	culated	
13-3/8"	870'	HOLE SIZE:		17-1/2	INCHES			
13-3/8*		2. INTERMI	DIATE CA	SING				
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	3:	230	sx
8-5/8**		TOC:	Surface		FEET DETERMINED BY:	Circ	culated	
		HOLE SIZE:		12-1/4	INCHES			
8-5/8"	4500'	3. LONG S	TRING					
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	9	900	sx
		тос:	1630		FEET DETERMINED BY:	Temp.	Survey	
		HOLE SIZE:		7-7/8	INCHES			
		4. TOTAL E	DEPTH:	7220	FEET			
		5. PERFOR	ATIONS	0.400		0.404		
			•	6468		6481	FEET	
				(PERFORAT	ED OR OPEN HOLE; INI "PERFORA"			
5-1/2°							٠	
	TBG @ 648 <i>T</i> *			_		FORM C-108 SECTION VI		
	PERFS 3468'-6481'				APPLICAT	TO INJECT	RIZATION	
5-1/2"	7220'					arker & Parsie evelopment L.	-	

WATER INJECTION WELL

Parker & Parsi Development l	
OPERATOR	

Deve	lopme	ent L	P.					LUSK DEE	EP "A"				
OPERA	TOR							LEASE					
		45			40541 5 58	0.0001.551		050.00		7 40 0	5 40	_	
	WE	15 ELL NO		-	FOOTAGE L	& 330' FEL		SEC-20		T-19-S TOWNSHIP	R-32-		
			•		,							-	
	TYPE	OF WE	⊥։_		PRODUCI	NG OIL AN	D GAS WE	<u>LL</u>	-	SPUD DATE:	11/2	2/88	
	sc	HEMA	ATIC						TABULA	R DATA	•		
	280 1		11 11	1009		1. SUFAC	E CASING			····			
						0.75	12 2/0				40	00	
						SIZE:	13-3/8	INCHES	CEMENTE	D WITH:	10	00	SX
						TOC:	Surface		FEET DET	ERMINED BY:	Circu	ulated	
13-3/8"		1		828'					-	•			
						HOLE SIZE:		17-1/2		INCHES			
						2. INTERN	MIDIATE CA	SING					
						SIZE:	8-5/8	INCHES	CEMENTE	D WITH:	70	00	SX
						TOC:	2370		ECCT DET	EDMINED OV:	Temp.	Survey	
						100.	2570		-	ERMINED DT:	remp.	Guivey	
						HOLE SIZE:		12-1/4		INCHES			
8-5/8	- 2			4500'		3. LONG	TPING						
	20	X.	38			J. LUNG	RING						
	2000					SIZE:	5-1/2	INCHES	CEMENTE	D WITH:	60	00	sx
	CONTOC CONTOC					T 0.0	4690				Tama	Suntar	
	90000					TOC:	4090		- FEET DET	ERMINED BY:	Temp.	Survey	
	200					HOLE SIZE:		7-7/8		INCHES			
						4. TOTAL	DEPTH:	7220) 	FEET			
						5. PERFO	RATIONS						
	2000							6468		FEET TO:	6478	FEET	
		N N N N N N N N N N N N N N N N N N N	33					(PERFORAT		N HOLE; INDIC			
	X X X X X X X X X X X X X X X X X X X									FERFORATE			
	8526526		******										
								20			FORM C-108		
	NO.										SECTION VI		
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			PERFS									
			XX	6468'-6478	3'					APPLICATIO	ON FOR AUTHOI TO INJECT	KIZATION	
				4 SXS CM									
	9	CI8P		CIBP @ 70	30'					Par	rker & Parsie	,	

Parker & Parsley Development L.P.

WATER INJECTION WELL

SHACKELFORD C	OIL .			LYNCH			
OPERATOR				LEASE			
2	1980' FSL &	660' FWL		SEC-21	T-19-S	R-32-E	
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED 8	& ABANDON	ED	-	SPUD DATE:	4/11	/42
SCHEMATIC	s	1 SUEAC	E CASING	I	ABULAR DATA		
	10 SXS CMT						
	100'-SURFACE		-		CEMENTED WITH:		
		TOC:	Surface	FI	EET DETERMINED BY:	Circul	ated
		HOLE SIZE:			INCHES		
		2. INTER	MIDIATE CA	ASING			
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
		TOC:	N/A	F	EET DETERMINED BY:	N/A	
		HOLE SIZE:		N/A	INCHES		
8-5/8"	905'	3. LONG	STRING				
CIBP	10 SXS CMT CIBP @ 915'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	100	sx
		TOC:	2400	F	EET DETERMINED BY:	Temp. S	urvey
		HOLE SIZE:		7-7/8	INCHES		
CIBP		4. TOTAL	DEPTH:	2820	FEET		•
		5. PERFO	RATIONS				
				2680 (BEREORATE)	FEET TO:	2955	FEET
				•	PERFORATED"	ATE WHICH)	
					ERFORATED IN ANY	· ·)?
) INTERVALS AND G NT OR PLUG(S) USE		NONE
			<u></u>				
							
	CUT OFF 5-1/2" CSG @ 2110'					FORM C-108	
	CUT OFF 5-1/2" CSG				APP	SECTION VI LICATION FOR AUTHO	ORIZATION
	@ 2110' 6 SXS CMT					TO INJECT Parker & Parsies	,
	GRAVEL FROM					Development L.F).
	TD TO 2525'					WATER INJECTION	VELL
5-1/2"	2795				7	ABULATION OF WEL	DATA

OPERATOR				LEASE			
4	1930' FSL 8	660' FWL		SEC-21	T-19-S	R-32-E	
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED	& ABANDON	ED		SPUD DATE:	9/12/6	3
SCHEMATIC		1. SUFAC	E CASING	1	TABULAR DATA		
	25 SXS CMT 35'-SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	725	sx
		TOC:	Surface	F	FEET DETERMINED BY:	Circulat	ed
13-3/8"	831'	HOLE SIZE:		17-1/2	INCHES		
	150 SXS CMT @723'-930'	2. INTERN	MIDIATE CA	SING			
		SIZE:	9-5/8	INCHES	CEMENTED WITH:	1000	sx
	2000 SXS CMT	TOC:	Surface	F	FEET DETERMINED BY:	Circulat	ed
	@2336'-2445'	HOLE SIZE:		11	INCHES		
		3. LONG	STRING				
9-5/8"	â 4290'	SIZE.	N/A	INCHES	CEMENTED WITH:	N/	'A sx
-		TOC:	N/A	F	FEET DETERMINED BY:	N/	Α
		HOLE SIZE:			INCHES	4	
		4. TOTAL	DEPTH:	11517	FEET		
		5. PERFO	RATIONS	N/A	FEET TO:	N/A	FEET
					D OR OPEN HOLE; INDIC PERFORATED"	ATE WHICH)	_
7	LOADED HOLE	LIST A	LL SUCH P	ERFORATE	PERFORATED IN ANY D INTERVALS AND G	IVE PLUGGED	
	MITH MUD TO	DETAIL	L, I.E. SACK 	S OF CEME	NT OR PLUG(S) USE	D	NONE
							
4.						FORM C-108 SECTION VI	
					APPL	JCATION FOR AUTHOR TO INJECT	IZATION
						Parker & Parsley Development L.P.	
						WATER INJECTION WE	il.
1	11517				т	ABULATION OF WELL	ATAC

Ξ		≠ 9	→ 1	2,5 ,54-B ,51-A
18	↓	17 ••11	10 \$5 02	3-B 1-B 15 3-A 1-B 5-A
* 2		1,00	•1	2-B• % 2-A
ф1 	•1	19 17	1 FEDERAL 2	∲ 1
1		20 LUSK DEEP UNIT 'A' LUSK DEEP UNIT 'A' LUSK DEEP 21 LUSK DEEP 21	MOBIL PEDERAL PRIANS FEDERAL PEDERAL MISTI 3 FEDERAL ACLING FEDERA	22
• 1	• 1	8 1 11	√ 1 • 2	•1 •1
.1 30 .2 4	1 3	9 10 1 5 3 5 4 6 4 12 13	28 3-Y ×5	27 *1 •4
1 •	• 1	•4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27	
31	1,0	32 °1 *3 +5	33	34

PP POSED INJECTION WELL DATA SHEET

OPERAT	OR:	SHACKELFORD (OIL CO.	l	LEASE:	MOBIL FE	DERAL	,		
WELL NO	04_	1650' FWL	& 2310' FS	L ;	SEC-21		T-19-S	· · · · · · · · · · · · · · · · · · ·	R-32-E	·
	SCHEMATIC		DCATION	:	SECTION		TOWNSHIP		RANGE	
5			4 CHEACE	CARING		WELL CO	NSTRUCTIO	ON DATA		
			1. SUFACE	CASING						
			SIZE:	13-3/8	INCHES	CEMEN	ITED WITH:		475	sx
			TOC:	Surface		FEET DETER	RMINED BY:		Circulated	
			HOLE SIZE:		17-1/2	,	INCHES			
			2. INTERM				-			
13-3/8"		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_				TED WITH:			SX.
			TOC:	N/A_		FEET DETER	RMINED BY:		N/A	,
			HOLE SIZE:		N/A		INCHES			
			3. LONG S	TRING						
			6175.	5_1/2	INCHES	CEMEN	ITED MATU		2620	ev
								•	2620	
			TOC:	Surface		FEET DETER NOTE: 1" PLU	RMINED BY: UG TO 1336' CI	MT'D W/720	Circulated SXS TO CIRCULATE.	
			HOLE SIZE:							
			4. INJECTI						6476 FEET	
	× ×	PKR @ 6400'		(ED OR OPEN RFORAT	HOLE; INDIC	CATE WHICH	1)	
						7000				
	H	PERFS 6468'-6476'	5. TOTAL I	DEPTH:	····	7230	_FEET			
	CIBP	CIBP @ 6550 [;]	6. TUBING	SIZE						
5-	1/2" U	7193'	SIZE:	2-7/8	INCHES	LINED WITH	l:	IPC 505 -	PLASTIC COATING	3
			SET IN A:	ARROW SI	ET 1-XS,	PKR	PACKER AT:		6400 FEET:	
OTHER I	DATA									
A.	IS THIS A NEV	WELL DRILLED FOR IN	JECTION?		YES	X	_NO			
	IF NO, FOR W	HAT PURPOSE WAS THI	E WELL ORIGI	NALLY DRILL	ED?		PRODUCII	NG OIL AN	ID GAS WELL	
	1									
В.	NAME THE IN	JECTION FORMATION.		GADO' CANI	D (BBLICH	V CANVON	AIN		· · · · · · · · · · · · · · · · · · ·	
В.		JECTION FORMATION:		6400' SAN			-i			
C. .		ELD OR POOL (IF APPLIC	·			ST (DELAV		····		· · · · · · · · · · · · · · · · · · ·
Đ.		LL EVER BEEN PERFORA SACKS OF CEMENT OR F			(S)? LIST AI NO	L SUCH PER	FORATED INT	ERVALS AN	D GIVE PLUGGED	
			. ,			·				
E.		ME(S) AND DEPTH(S) OF			NG OIL OR (BAS ZONES II	N THIS AREA:			
	1. YATES	2600'-2800'	WATKINS N.E. LUSK		•	5. STRAW	VN 11000'-1	1200'	LUSK STRAWN C	DIL
			S. LUSK Y	ATES	•	6. ATOKA	11200'-114	100'	LUSK ATOKA GA	s
	2. DELAWA	ARE 4600'-7100'		DELAWARE	<u> </u>	7. MORRO	OW 11500'-	12000'	LUSK MORROW	GAS
			LUSK DEL	AWARE					N.W. LUSK MORI	
	3. BONE S	PRING 8200'-8950'		BONE SPRING		-			FORM C-108	
			S. LUSK B	ONE SPRI	NG	≟		Appr	SECTION III ICATION FOR AUTHOR	RIZATION
				ONE SPRI		-		AFFL	TO INJECT Parker & Parsley	WALLE IN
	4. WOLF C	AMP 10100'-10700'		LFCAMP O				,	Development L.P. WATER INJECTION W	El 1
				VOLFCAME VOLFCAME		-			TATER INJECTION W	-LL

PP "OSED INJECTION WELL DATA SHEET

OPERATOR:	SHACKELFORD	OIL CO.	LEASE:	MOBIL FEDERAL	,	_
WELL NO	1 1650' FNL FOOTAGE L	& 330' FWL	SEC-21	T-19-S	R-32-E	_
	FOOTAGE L	OCATION	SECTION	TOWNSHIP	RANGE	
		1. SUFACE CASING		WELL CONSTRUCTION DAT	'A	
	461'	SIZE: 13-3/8	3 INCHES	CEMENTED WITH:	475 8	<u>sx</u>
13-3/8"	461	тос: Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:	17-1/2	INCHES		
		2. INTERMIDIATE C	ASING			
		SIZE: 8-5/8	3 INCHES	CEMENTED WITH:	860	sx
8-5/8"	4257' CURRENT	тос: Surface		FEET DETERMINED BY:	Circulated	
	U.DELAWARE PERFS	HOLE SIZE:		•		
	PROPOSED TO CMT			-		
		SIZE: 5-1/2	2 INCHES	· CEMENTED WITH:	875	sx
		тос: 4248	3	FEET DETERMINED BY:	Temp. Survey	
		HOLE SIZE:				_
				6469 FEET TO:	6479 FEET	
	☑ ☑ PKR @ 6400'			ERFORATED"	нсн)	
	PERFS	5. TOTAL DEPTH:		6700 FEET		
	6469'-6479'	6. TUBING SIZE		and the state of the state of the state of		
5-1/2*	6692'	SIZE: 2-7/8	INCHES	LINED WITH: PC 50	5 - PLASTIC COATING	
- "-			SET 1-XS,		0.400	
		SET IN A. ARTOVY	OLI 190,	PACKER AT.	6400 FEET:	
OTHER DATA						
A. IS TH	HIS A NEW WELL DRILLED FOR I	NJECTION?	_YES	Х NO		
IF NO	D, FOR WHAT PURPOSE WAS TH	IE WELL ORIGINALLY DRI	LLED?	PRODUCING OIL	AND GAS WELL	
•			····			
B. NAM	E THE INJECTION FORMATION:	6400' SA	ND (BRUSI	IY CANYON)		
C. NAM	E THE FIELD OR POOL (IF APPL	CABLE)	LUSK WE	ST (DELAWARE)		
				LL SUCH PERFORATED INTERVALS FS 4904', 4984'-5006', 5012'-5		
5/92	2 PERFS 4874'-4892' CIBP	@ 4940', CURRENTL	Y PRODUC	ING FROM U. DELAWARE PE	ERFS 4874'-4892'	
E. GIVE	E THE NAME(S) AND DEPTH(S) O	F ANY OVER OR UNDERL	YING OIL OR	GAS ZONES IN THIS AREA:		·
<u>1. Y</u>	'ATES 2600'-2800'	WATKINS YATES N.E. LUSK YATES		5. STRAWN 11000'-11200'	LUSK STRAWN OIL	
		S. LUSK YATES		6. ATOKA 11200'-11400'	LUSK ATOKA GAS	
2. [DELAWARE 4600'-7100'	W. LUSK DELAWA	RE	7. MORROW 11500'-12000'	LUSK MORROW GAS N.W. LUSK MORROW GAS	<u>-</u>
3 . F	30NE SPRING 8200'-8950'	WATKINS BONE S	 PRING		N. LUSK MORROW GAS	
		LUSK BONE SPRIN	VG	_	FORM C-108	
		S. LUSK BONE SP E. LUSK BONE SP		A	SECTION III PPLICATION FOR AUTHORIZATION	
					TO INJECT Parker & Parsley	
4.\	WOLF CAMP 10100'-10700				Development L.P. WATER INJECTION WELL	
		E. LUSK WOLFCAI		_	MATER INJECTION MELL	

PROPOSED INJECTION WELL DATA SHEET

PERATO	R:	SHACKELFOR	D OIL CO.	LEASE:	AMOCO FEDERAL		
VELL NO	2	990' FN	L & 1650' FWL	SEC-21	T-19-S	R-32-E RANGE	
			E LOCATION	SECTION	TOWNSHIP	RANGE	
	SCHEMATI		1. SUFACE CAS		WELL CONSTRUCT	ON DATA	
		450	SIZE: 13	-3/8 INCHES		475	sx
13-3/8"		459'	тос: Surfa	се	FEET DETERMINED BY:	Circulated	
			HOLE SIZE:	17-1/2	INCHES		
			2. INTERMIDIAT	E CASING			
8-5/8"		4250'	SIZE: 8	-5/8 INCHES	CEMENTED WITH:	100 NOTE: PULLED 3088' 8-8/5" CSG	sx
			TOC: Surfa	се	FEET DETERMINED BY:	Circulated	
			HOLE SIZE:	12-1/4	INCHES		
			3. LONG STRING	3			
			SIZE: 5	i-1/2 inches	CEMENTED WITH: NOTE: PUM	2250 PED 1575 SXS CMT FROM TOPSIDE	sx
			тос: Surfa	ice	FEET DETERMINED BY:	Circulated	
			HOLE SIZE:	7-7/8	INCHES		
	×	PKR @ 6420'		(PERFORAT	6489 FEET TO: ED OR OPEN HOLE; IND ERFORATED"	6503 FEET	
			5. TOTAL DEPT	H:	6700 FEET		
		6489'-6503'	6. TUBING SIZE				
5-1/	2"	6650'	SIZE: 2-7	7/8_INCHES	LINED WITH:	IPC 505 - PLASTIC COATING	
			SET IN A: ARRO	OW SET 1-XS,	PKR PACKER AT	: 6420 FEET:	
07UE0 0							
A.		EW WELL DRILLED FO	R INJECTION?	YES	Х NO		
	IF NO, FOR	WHAT PURPOSE WAS	THE WELL ORIGINALLY	DRILLED?	PRODUC	ING OIL AND GAS WELL	
							
В.	NAME THE I	NJECTION FORMATIO	N: 6400'	SAND (BRUSH	IY CANYON)		
C.	NAME THE	TIELD OR POOL (IF AP	PLICABLE)	LUSK WE	ST (DELAWARE)		
D.		ELL EVER BEEN PERF SACKS OF CEMENT (TERVALS AND GIVE PLUGGED 5' CURRENTLY PRODUCING FROM	
	U. DELAV	VARE PERFS 4850	5'-4867' PLAN TO S	QZ OFF U. DEL	AWARE CONVERT TO	O WIW IN 6469'-6503' PERFS	
E.	GIVE THE N	AME(S) AND DEPTH(S) OF ANY OVER OR UND	ERLYING OIL OR (GAS ZONES IN THIS AREA		
	1. YATES	2600'-2800'	WATKINS YATE		5. STRAWN 11000'-	11200' LUSK STRAWN OIL	······
			S. LUSK YATES		6. ATOKA 11200'-1	1400' LUSK ATOKA GAS	
	2. DELAW	ARE 4600'-7100'	W. LUSK DELAV		7. MORROW 11500	'-12000' LUSK MORROW GAS	AS
	3 BUNE	SPRING 8200'-895	- · · · · · · · · · · · · · · · · · · ·			N. LUSK MORROW GAS	
	S. BUNE	31 MINO 0200-098	LUSK BONE SP		_	FORM C-108	
			S. LUSK BONE		_	SECTION III APPLICATION FOR AUTHORIZATION	J
			E. LUSK BONE		_	TO INJECT Parker & Parsley	
	4. WOLF	CAMP 10100'-107	00' LUSK WOLFCA			Development L.P. WATER INJECTION WELL	
			E. LUSK WOLFO		_	TABULATION OF WELL DATA	

PP^POSED INJECTION WELL DATA SHEET --Parker & Parsley LEASE: LUSK DEEP UNIT "A" Development L.P. **OPERATOR:** R-32-E 660' FEL & 2310' FSL SEC-20 T-19-S WELL NO 20 RANGE TOWNSHIP **FOOTAGE LOCATION** SECTION SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 900 SIZE: 13-3/8 INCHES CEMENTED WITH: SX 13-3/8" FEET DETERMINED BY: Circulated Surface TOC: 17-1/2 **INCHES** HOLE SIZE: 2. INTERMIDIATE CASING 2350 8-5/8 INCHES CEMENTED WITH: SX 8-5/8" FEET DETERMINED BY: Circulated Surface TOC: 12-1/4 HOLE SIZE: INCHES 3. LONG STRING 800 5-1/2 INCHES CEMENTED WITH: SX 3030 Temp. Survey FEET DETERMINED BY: TOC: HOLE SIZE: 7-7/8 INCHES 4. INJECTION INTERVAL 6469 FEET TO: 6487 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6400 **PERFS** 7230 FEET 5. TOTAL DEPTH: 6469'-6487' CIBP 6800' 6. TUBING SIZE 5-1/2" 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6400 OTHER DATA ____YES Х ио IS THIS A NEW WELL DRILLED FOR INJECTION? PRODUCING OIL AND GAS WELL IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) B. C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) 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' GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 1. YATES 2600'-2800' **WATKINS YATES** 5. STRAWN 11000'-11200' **LUSK STRAWN OIL**

S. LUSK YATES

6. ATOKA 11200'-11400'
LUSK ATOKA GAS

2. DELAWARE 4600'-7100'
W. LUSK DELAWARE
LUSK DELAWARE
LUSK DELAWARE
S. BONE SPRING 8200'-8950'
WATKINS BONE SPRING
LUSK BONE SPRING
S. LUSK BONE SPRING
E. LUSK BONE SPRING
APPLICATION FOR AUTHORIZATION

N.E. LUSK YATES

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

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

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

TOR				LEASE			
1	660' F	NL & 330' FWL		SEC-21	T-19-S	R-32-E	
WELL NO.							
TYPE OF WELL:	PROD	UCING OIL AND	GAS WEL	L	SPUD DATE:	9/23/88	
SCHEMATIC					TABULAR DATA		
		1. SUFACE	CASING				
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx
	450'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
	400	HOLE SIZE:		17-1/2	INCHES		
		2. INTERM	IDIATE CA	SING			
		SIZE:	8	INCHES	CEMENTED WITH:	2150	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		11	INCHES		
8" ************************************	4250	3. LONG S	TRING				
WYWATIWATEW		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. PERFO	RATIONS			2.00	
							٢
2 P				(PERFURATI			
	_					FORM C-108 SECTION VI	
E 6					APPLICATI	ON FOR AUTHORIZATION TO INJECT	
5-1/2"	6650'					_	
	TYPE OF WELL: SCHEMATIC P.4. P.6.	1 660' F WELL NO. FOOTA TYPE OF WELL: PROD SCHEMATIC PERFS 4892'-4906' PERFS 6490'-6493'	TYPE OF WELL: SCHEMATIC SCHEMATIC 1. SUFACE SIZE: TOC: HOLE SIZE: TOC:	1 660' FNL & 330' FWL WELL NO. FOOTAGE LOCATION TYPE OF WELL: PRODUCING OIL AND GAS WELL SCHEMATIC 1. SUFACE CASING SIZE: 13-3/8 TOC: Surface HOLE SIZE: 8 TOC: Surface HOLE SIZE: 5-1/2 TOC: 4550 HOLE SIZE: 4. TOTAL DEPTH: 5. PERFORATIONS PERFS 6490'-6493' PERFS 6490'-6493'	1 660' FNL & 330' FWL SEC-21 WELL NO. FOOTAGE LOCATION SECTION TYPE OF WELL: PRODUCING OIL AND GAS WELL SCHEMATIC 1. SUFACE CASING SIZE: 13-3/8 INCHES TOC: Surface HOLE SIZE: 17-1/2 2. INTERMIDIATE CASING SIZE: 8 INCHES TOC: Surface HOLE SIZE: 11 3. LONG STRING SIZE: 5-1/2 INCHES TOC: 4550 HOLE SIZE: 7-7/8 4. TOTAL DEPTH: 6650 5. PERFORATIONS 6490 (PERFORATI	1	1

WATER INJECTION WELL TABULATION OF WELL DATA

Parker & Parsley

Development L.P.

PERFS

CIBP

6468'-6478'

4 SXS CMT CIBP @ 7030'

LUSK DEEP "A" OPERATOR LEASE SEC-20 T-19-S R-32-E 15 1651' FNL & 330' FEL FOOTAGE LOCATION SECTION RANGE WELL NO. TOWNSHIP TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 11/22/88 SCHEMATIC TABULAR DATA 1. SUFACE CASING 1000 13-3/8 INCHES CEMENTED WITH: SIZE: SX FEET DETERMINED BY: Circulated тос: Surface HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: SIZE: FEET DETERMINED BY: Temp. Survey TOC: 2370 HOLE SIZE: 12-1/4 INCHES 8-5/8" 3. LONG STRING 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 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

SHACKELFORD OIL		MOBIL FED	ERAL		
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	S WELL	SPUD DATE:	8/30/88	
SCHEMATIC	1. SUFACE CAS		TABULAR DATA		
	SIZE: 13-	-3/8 INCHES (CEMENTED WITH:	475	sx
13-3/8"	тос: Surf	ace F	EET DETERMINED BY:	Circulated	1
	HOLE SIZE:	17-1/2	INCHES	-	
	2. INTERMIDIAT	TE CASING			
	SIZE: N	/A INCHES	CEMENTED WITH:	N/A	sx
	TOC: N	I/AF	EET DETERMINED BY:	N/A	
	HOLE SIZE:	N/A	INCHES		
13-3/8" 454'	3. LONG STRIN	G			
	SIZE: 5-	1/2 INCHES	CEMENTED WITH:	165	\$x
	TOC: 59	997F	EET DETERMINED BY:	Calculation	<u> </u>
-	HOLE SIZE:	11 & 7-7/8	INCHES		
	4. TOTAL DEPT	H: 6690	FEET		
4	5. PERFORATION	ONS 6490	FEET TO:	6495 r	FEET
77774			O OR OPEN HOLE; INDICA		-661
			"PERFORATED)"	
864					
		æ		ORM C-108	
			\$	SECTION VI	
PERFS 6490-6				N FOR AUTHORIZATI TO INJECT	ION
			Pari	ker & Parsley	
5-1/2" 6690'				elopment L.P.	

WATER INJECTION WELL

SHACKELFORD OIL				MOBIL FEDERAL					
OPERA	TOR			LEASE					
		2310' FSL & 330' FW	L	SEC-21					
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE			
	TYPE OF WELL:	PRODUCING OIL AN	ID GAS WEL	L	SPUD DATE:	10/25/	39		
	SCHEMATIC				TABULAR DATA				
	R83 200 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. SUFAC	E CASING		TABOLAN DATA				
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx		
40 0100	45:		Surface		FEET DETERMINED BY:	Circula	ted		
13-3/8"	79623			17-1/2	INCHES				
		· 2. INTER	MIDIATE CA	SING					
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	1090	sx		
		TOC:	150		FEET DETERMINED BY:	Temp. Su	irvey		
				11	INCHES				
8-5/8*	4256	3. LONG	STRING						
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	1000	SX		
					FEET DETERMINED BY:	Calcula	ted		
		HOLE SIZE:		7-7/8	INCHES				
		4. TOTAL	DEPTH:	7240	FEET				
		5. PERFO	RATIONS	6478	FEET TO:	6485	FEET		
			·	(PERFORAT	ED OR OPEN HOLE; INDI "PERFORATI				
					PERFORATI				
							•		
				-					
						FORM C-108 SECTION VI			
	TBG @				ADDI ICATI	ON FOR AUTHORIZ	'ATION		
	TBG @ PERFS 6478-6				AFFLICATI	TO INJECT			
5-1	7040					rker & Parsley			
, عن	7240'				De	velopment L.P.			

WATER INJECTION WELL TABULATION OF WELL DATA

SHACKELFORD OIL			LYNCH			
PERATOR		l	EASE			
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	1. SUFACE	CASING		TABULAR DATA		
	SIZE:	8-5/8	INCHES	CEMENTED WITH:	50	sx
	тос: Ѕ	urface		FEET DETERMINED BY:	Circulate	d
	HOLE SIZE:		11	INCHES		
	2. INTERMI	DIATE CASI	NG			
	SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
	TOC:	N/A		FEET DETERMINED BY:	N/A	
	HOLE SIZE:		N/A	INCHES		
8-5/8" 925'	3. LONG ST	RING			•	
4	SIZE: . <u>4-</u>	1/2 & 5-1/2	INCHES	CEMENTED WITH:	50	sx
	TOC:	2400		FEET DETERMINED BY:	Calculation	<u>n</u>
	HOLE SIZE:		7-7/8	INCHES		
	4. TOTAL D	EPTH:	2776	FEET		
	. 5. PERFOR	ATIONS				
		_	2637	FEET TO:	2737	FEET
		(PERFORATI	ED OR OPEN HOLE; INDIC "PERFORATE		
4-1/2" 2340"				·		
			م	,	FORM C-108	
					SECTION VI	
PERFS 2637-273	7			APPLICATIO	N FOR AUTHORIZAT	TION
5" 2739'					ker & Parsley elopment L.P.	
TD 2776'				WATE	R INJECTION WELL	

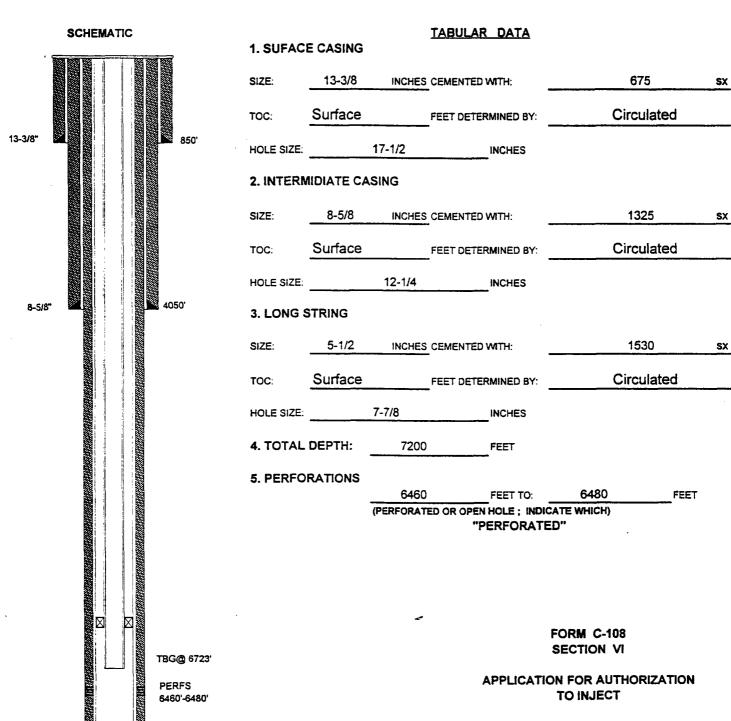
SHAC	SHACKELFORD OIL			PLAINS FEDERAL						
OPERAT	OR			LEASE	······································					
	4 - X	710' FSL & 660' FWL		SEC-21	T-19-S	R-32-E				
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP					
	TYPE OF WELL:	PRODUCING OIL AN	D GAS WEL	L	SPUD DATE:	1/4/64				
			-		TABULAR DATA					
	SCHEMATIC	1. SUFAC	E CASING							
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	SX			
		TOC:	Surface		FEET DETERMINED BY:	Circulate	d			
13-3/8"	827'	HOLE SIZE:		17-1/2	INCHES		-			
	2662	2. INTERN	MIDIATE CA	SING						
		SIZE:	10-3/4	INCHES	CEMENTED WITH:	700	sx			
		TOC:	Surface		FEET DETERMINED BY:	Circulate	<u>d</u>			
		HOLE SIZE:		12-1/4	INCHES					
10-3/4"	2662'	3. INTERN	MIDIATE CA	SING						
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	250	sx			
		TOC:	3500		FEET DETERMINED BY:	Temp. Surv	ey			
		HOLE SIZE:		9-7/8	INCHES					
	4540'	4. LONG S	STRING							
8-5/8	4540'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	200	sx			
	22 29	TOC:	10714		FEET DETERMINED BY:	Calculated	<u>d</u>			
		HOLE SIZE:		7-7/8	INCHES					
		5. TOTAL	DEPTH:	11514	FEET					
		6. PERFO	RATIONS	11435		11479	FEET			
		•			FEET TO: ED OR OPEN HOLE; INDI "PERFORAT	CATE WHICH)	FEET			
					FERFORAT	FORM C-108				
					APPLICAT	SECTION VI ION FOR AUTHORIZA	TION			
	PERFS 11435'-114	179'				TO INJECT				
						arker & Parsley				
					D(evelopment 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 GA	S WELL	SPUD DATE:	1997	



Parker & Parsley Development L.P.

WATER INJECTION WELL

SHACKEL	HACKELFORD OIL			PLAINS UNIT						
OPERATOR		<i>J</i>		LEASE						
	e	· •		SEC.21	T.10 S	R-32-E				
W	ELL NO.	FOOTAGE LOCATION	-	SECTION	TOWNSHIP		,			
TYPE	OF WELL:	PRODUCING OIL AN	D GAS WEI	L	SPUD DAT	E: 7/10/96				
					TABULAR DATA					
so	CHEMATIC	1. SUFAC	E CASING							
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx			
		TOC:	Surface		FEET DETERMINED BY:	Circulated				
13-3/8"	825'	HOLE SIZE:		17-1/2	INCHES					
		2. INTERN	MIDIATE CA	SING						
		SIZE:	10-3/4	INCHES	CEMENTED WITH:	700	sx			
10-3/4"	2651'	TOC:	Surface		FEET DETERMINED BY:	Circulated				
		HOLE SIZE:		12-1/4	INCHES					
10-3/4"	2651'	3. INTERN	MIDIATE CA	SING						
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	275	sx			
		TOC:	3335		FEET DETERMINED BY:	Calculated				
		HOLE SIZE:		11	INCHES					
8-5/8°		4. LONG	STRING							
8-5/8"	4490	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. PERFO	RATIONS							
				11516 (PERFORATI	FEET TO: ED OR OPEN HOLE; INI	11530 FEET DICATE WHICH)				
					"PERFORA"					
						FORM C-108 SECTION VI				
	05050				APPLICA	TION FOR AUTHORIZATION	i			
	PERFS 11516'-115	30'				TO INJECT				
						Parker & Parsley				
5-1 <i>/2</i> "	11690'					Development L.P.				

WATER INJECTION WELL TABULATION OF WELL DATA

		·				-		
SHA(CKELFORD	OIL			LYNCH	· · · · · · · · · · · · · · · · · · ·		
0. 50								
	WELL NO.	660' FSL & 60			SEC-21	T-19-S TOWNSHIP		
	WELL NO.	FOOTAGE EUC			32011014	OWNSHIP	·	
	TYPE OF WELL:	PLUGGED &	ABANDON	ED	-	SPUD DATE:	12/18/41	
	SCHEMAT	ıc	4 SUEAC	E CASING		TABULAR DATA		
	888 888 1 11	11 188188	I. SUFAC	E CASING				
			SIZE:	8-1/4	INCHES	CEMENTED WITH:	50	5X
			TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
8-1/4"		920'	HOLE SIZE:		UNKNOWN	INCHES		
			2. INTERI	MIDIATE CA	ASING			
			SIZE:	7	INCHES	CEMENTED WITH:	100	SX
			TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
	7		HOLE SIZE:		UNKNOWN	INCHES		
			3. LONG	STRING				
	7	2696'	SIZE:	UNKNOWN	INCHES	CEMENTED WITH:	UNKNOWN	\$x
			TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
			HOLE SIZE:	·	UNKNOWN	INCHES		
			4. TOTAL	DEPTH:	2751	FEET		
			5. PERFO	RATIONS				
					UNKNOWN	FEET TO UN		
					(PERFORAT	ED OR OPEN HOLE; INDI PERFORATED"	CATE WHICH)	
			6. HAS T	HE WELL E	VER BEEN	PERFORATED IN AN	Y OTHER ZONE(S)?	
F.D.	ott. Downs o	U AND DECEADOU				ED INTERVALS AND (
FRU		IL AND RESEARCH PAIGE	EIAI	L, I.E. SACI	(S OF CEM	ENT OR PLUG(S) USI	:ט.	
	HOBBS, N	.M. , 88240				UNKNOWN		
W	/ELLS DRILLEI	D BACK IN THE 1940'S			·			
TH	AT WERE ON F	EDERAL LAND WERE					FORM C-108 SECTION VI	
NO	T REQUIRED T	O FURNISH THE OCD				APPLICA	ATION FOR AUTHORIZATION TO INJECT	
WIT	TH COPIES OF	THE PUGGING LOG.					Parker & Parsley Development L.P.	
so	ALL THAT IS	AVAILABLE IS THE				WA	ATER INJECTION WELL	
INF	ORMATION O	N THE SCOUT TICKET.				TABL	JLATION OF WELL DATA	

5. PERFORATIONS

LOADED HOLE

WITH MUD TO 2445'

11517

4. TOTAL DEPTH: 11517

N/A FEET TO:

N/A

__FEET

NONE

(PERFORATED OR OPEN HOLE; INDICATE WHICH)
PERFORATED"

INCHES

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.

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

		% 9	÷ 1	2 % %4-B %1-A
•1	1	4.7	1. 45	2 • 1 • 15 ×3-A
18	 	17	De 2 16 €1	1-B • 5-A • 1 4-A •
	% 2	1,50	•1	2-8● #2-4
+ 1	+ 3	19 17 LUSK DEEP UNIT "A"	AMECU FEDERAL 2	≠ 1
10 10 2	•1	3 22 VLUSK DEEP 15 • UNIT 'A" LUSK DEEP UNIT 'A"	PLAINS FEDERAL POBIL PEDERAL	· "/1
+1 +1	+ ² 5	LUSK DEEP LUSK DEEP	3 CLEAN 4 2 LYNCA FERENA A NAME FERENA 1 ATLANTIC	•1 22
19		LUSK DEEP 21 4 LUSK DEEP 21 4 LUSK DEEP 21 4 LUSK DEEP 21	PLAINS A STEERAL X	2 ●
• 1	• 1	1 8 1 11 11 11 11 11 11 11 11 11 11 11 11 1	ø 1 •2	•1
•1)	7 10 1	• 2	
3l	4 4 3	9. 5 5 29 V ⁴	28 3-y y 5	27
• 1	1.	6▼	≠ 10	≠ 1 •4
1 •	• 1	•4 1× 1× 1×	27	
31		22 •1	4 9 •1	34
31	1,96	32	33	5 4
- 5		% 2		

PR OSED INJECTION WELL DATA SHEET

Parker & Parsley LEASE: LUSK DEEP UNIT "A" Development L.P. PERATOR: R-32-E 1660' FNL & 2300' FEL SEC-20 T-19-S ELL NO **FOOTAGE LOCATION** * SECTION TOWNSHIP RANGE **SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 500 SX SIZE: 819 13-3/8" Circulated Surface FEET DETERMINED BY: TOC: 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 1650 8-5/8 INCHES CEMENTED WITH: SX SIZE: 4482 FEET DETERMINED BY: Temp. Survey 1350 TOC: 11 HOLE SIZE: 3. LONG STRING INCHES · CEMENTED WITH: sx 5-1/2 SIZE: 2710 FEET DETERMINED BY: Temp. Survey 7-7/8 INCHES HOLE SIZE: 6446 FEET TO: 4. INJECTION INTERVAL 6467 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6370 5. TOTAL DEPTH: 6700 FEET **PERFS** 6446'-6467' 6. TUBING SIZE 6683 5-1/2" 2-7/8 INCHES LINED WITH: PC 505 - PLASTIC COATING SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6370 THER DATA ____Х ио IS THIS A NEW WELL DRILLED FOR INJECTION? YES PRODUCING OIL AND GAS WELL IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? COMMENT: SPUD WELL 11/2/74. P&A WELLBORE 8/27/86. RE-ENTRY 4/12/89 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: LUSK WEST (DELAWARE) C. NAME THE FIELD OR POOL (IF APPLICABLE) 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 GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. **WATKINS YATES** 1. YATES 2600'-2800' LUSK STRAWN OIL 5. STRAWN 11000'-11200' N.E. LUSK YATES S. LUSK YATES 6. ATÓKA 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsiey 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL **Development L.P**

E, LUSK WOLFCAMP OIL

WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

Parker & Parsley Development L.P.

PERATO	R: Develor	oment L.P.	LEASE:	LUSK DEEP UNIT "A"							
ELL 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								
	87	SIZE:	13-3/8 інсне	S CEMENTED WITH:	900 sx						
13-3/8" 📓	8/		Surface	FEET DETERMINED BY:	Circulated						
		HOLE SIZE:	17-1/2	INCHES							
,		2. INTERMI	DIATE CASING		·						
	4485	SIZE:	8-5/8 INCHE	S CEMENTED WITH:	2350 sx						
8-5/8"	4465		Surface	FEET DETERMINED BY:	Circulated						
		HOLE SIZE:	12-1/4	INCHES							
	■ 4485 ■ PKR @ 6400	3. LONG S									
		SIZE:	5-1/2 INCHE	S CEMENTED WITH:	800 sx						
		TOC:	3030	FEET DETERMINED BY:	Temp. Survey						
		_		8 INCHES							
		•			6487 FEET						
	⊠ ⊠ PKR@		4. INJECTION INTERVAL 6469 FEET TO: 6487 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED"								
		5. TOTAL E	DEPTH:	7230 FEET							
	CIBP 68	6. TUBING	SIZE								
5-1/2		SIZE:	2-7/8 INCHES	LINED WITH: IPC	505 - PLASTIC COATING						
		SET IN A:	ARROW SET 1-XS,	PKR PACKER AT:	6400 FEET:						
		•									
THER DA	ATA .										
A.	IS THIS A NEW WELL DE	RILLED FOR INJECTION?	YES	Х мо							
	IE NO EOD MUAT DIDE	POSE WAS THE WELL ORIGI	NALLY DOUL ED2	PRODUCING	OIL AND GAS WELL						
	IF NO, FOR WHAT FORF	OSE WAS THE WELL ORIGI	VALLY ORILLED?	PRODUCING	OIL AND GAS WELL						
B .	NAME THE INJECTION F	FORMATION:	6400' SAND (BRUS	SHY CANYON)							
C.	NAME THE FIELD OR PO	DOL (IF APPLICABLE)	LUSK W	EST (DELAWARE)							
D.	HAS THE WELL EVER B	EEN PERFORATED IN ANY O	OTHER ZONE(S)? LIST	ALL SUCH PERFORATED INTERV	/ALS AND GIVE PLUGGED						
		CEMENT OR PLUG(S) USED			ITH 4 SK. CMT. ON TOP AT 6800'						
£.	GIVE THE NAME(S) AND	DEPTH(S) OF ANY OVER O	R UNDERLYING OIL OF	R GAS ZONES IN THIS AREA:							
	1. YATES 2600'-280			5. STRAWN 11000'-1120	00' LUSK STRAWN OIL						
		N.E. LUSK S. LUSK Y		6. ATOKA 11200'-11400	LUSK ATOKA GAS						
	2. DELAWARE 460		ELAWARE	7. MORROW 11500'-120	000' LUSK MORROW GAS						
		LUSK DEL	AWARE		N.W. LUSK MORROW GAS N. LUSK MORROW GAS						
	3. BONE SPRING		BONE SPRING								
			IE SPRING ONE SPRING		FORM C-108 Section III						
			ONE SPRING		APPLICATION FOR AUTHORIZATION						
				_	TO INJECT Parker & Parsley						
•	4. WOLF CAMP 10	100'-10700' LUSK WO	LFCAMP OIL VOLFCAMP OIL		Development L.P. WATER INJECTION WELL						
			VOLFCAMP OIL								

PROPOSED INJECTION WELL DATA SHEET

Parker & Parsley

LEASE: LUSK DEEP UNIT "A" Development L.P. PERATOR: R-32-E SEC-20 T-19-S 330' FSL & 1980' FEL 14 ELL NO TOWNSHIP RANGE FOOTAGE LOCATION SECTION SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING CEMENTED WITH: 1000 13-3/8 INCHES SX SIZE: 13-3/8" FEET DETERMINED BY: Circulated TOC: Surface 17-1/2 INCHES 2. INTERMIDIATE CASING 1700 8-5/8 INCHES CEMENTED WITH: SX 4500 8-5/8" Circulated Surface FEET DETERMINED BY: TOC: HOLE SIZE: 12-1/4 INCHES 3. LONG STRING 850 5-1/2 SIZE: INCHES CEMENTED WITH: SX FEET DETERMINED BY: Temp. Survey 7-7/8 HOLE SIZE: INCHES 6459 FEET 4. INJECTION INTERVAL 6452 FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6380 7200 FEET 5. TOTAL DEPTH: PERFS 6452-6459 6. TUBING SIZE 7199 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6380 FEET: THER DATA IS THIS A NEW WELL DRILLED FOR INJECTION? YES Х ио PRODUCING OIL AND GAS WELL IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: В. C. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) 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 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P. E. LUSK WOLFCAMP OIL WATER INJECTION WELL S. LUSK WOLFCAMP OIL

PPCOSED INJECTION WELL DATA SHEET

 Parker & Parsley

 PERATOR:
 Development L.P.
 LEASE:
 LUSK DEEP UNIT "A"

 VELL NO
 17
 330' FNL & 330' FEL
 SEC-20
 T-19-S
 R-32-E

ELL NC		OTA CELOCATION		ECTION		TOWNSHIP	RANGE			
	SCHEMATIC	OTAGE LOCATION	3	ECHON		IOWNSHIP	AANGE			
		1. SUFAC	WELL CONSTRUCTION DATA 1. SUFACE CASING							
	882	SIZE:	13-3/8	INCHES	CEME	NTED WITH:	100	00	sx	
13-3/8"	002	TOC:	Surface		FEET DETE	RMINED BY:	Circulat	ed		
		HOLE SIZE:	1	17-1/2		INCHES				
		2. INTERN	MIDIATE CAS	SING						
8-5/8"	4510'	SIZE:	8-5/8	INCHES	CEME	NTED WITH:	14	50	sx	
8-3/0		TOC:	Surface		FEET DETE	RMINED BY:	Circulat	ed		
		HOLE SIZE:		12-1/4		_INCHES				
		3. LONG	STRING							
		SIZE:	5-1/2	INCHES	СЕМЕ	NTED WITH:	80	00	8X	
		TOC:	2790		FEET DETE	ERMINED BY:	CALCULA	TED		
		HOLE SIZE:		7-7/8	 -	_INCHES				
		4. INJECT					6484	FEET		
	☑ ☑ PKR @ 6400'		(RFORA	N HOLE ; INDICA TED"	TIE WHICH)			
	PERFS 6476'-6484'	5. TOTAL	DEPTH:		7224	FEET				
		6. TUBING	3 SIZE							
5-1	1/2" 7220'	SIZE:	2-7/8	NCHES	LINED WIT	н: <u> I</u> F	C 505 - PLASTIC	COATING		
		SET IN A:	ARROW SE	ET 1-XS, I	PKR	PACKER AT:	6400	FEET:		
THER [DATA									
A.	IS ȚHIS A NEW WELL DRILLE	D FOR INJECTION?		YES	X	NO				
	IF NO, FOR WHAT PURPOSE	WAS THE WELL ORIG	SINALLY DRILLI	ED?		PRODUCING	G OIL AND GAS V	WELL		
			·							
В.	NAME THE INJECTION FORM	IATION:	6400' SANI	O (BRUSH	Y CANYO	N)			 -	
C.	NAME THE FIELD OR POOL (IF APPLICABLE)		LUSK WE	ST (DELA	WARE)				
D.	HAS THE WELL EVER BEEN DETAIL, I.E. SACKS OF CEM			S)? LIST AL NO	L SUCH PE	RFORATED INTE	RVALS AND GIVE PL	UGGED		
E.	GIVE THE NAME(S) AND DEF	TH(S) OF ANY OVER	OR UNDERLYIN	NG OIL OR G	AS ZONES	IN THIS AREA: _				
	1. YATES 2600'-2800'	WATKINS			5. STRA	WN 11000'-11	200' LUSK 5	STRAWN OIL		
		N.E. LUS S. LUSK			6. ATOK	A 11200'-1140	00' LUSK A	TOKA GAS		
	2. DELAWARE 4600'-7		DELAWARE		7. MORE	ROW 11500'-1		ORROW GAS		
		LUSK DE	LAWARE					JSK MORROW GA K MORROW GAS	S	
	3. BONE SPRING 8200	'-8950' WATKINS	S BONE SPR	ING			14. LUS	IN MONITOW GAS		
			NE SPRING BONE SPRIN		-		SE	RM C-108 CTION III		
			BONE SPRI		- 			OR AUTHORIZATION INJECT		

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

E. LUSK WOLFCAMP OIL

Parker & Parsley

Development L.P.
WATER INJECTION WELL

PROPOSED INJECTION WELL DATA SHEET

PERATO	₹:	SHACKELFORD	OIL CO.		LEASE:	MOBIL FE	DERAL				
ELL NO	1	1650' FNL	. & 330' FW	L	SEC-21		T-19-S		R-32-E		
-		FOOTAGE L					TOWNSHIP		RANGE		
	SCHEMAT	ric				WELL CO	NSTRUCTIO	ON DATA			
			1. SUFAC								
13-3/8"		461'	SIZE:	13-3/8	INCHES	CEMEN	TED WITH:		475		SX
			TOC:	Surface		FEET DETER	RMINED BY:		Circulated		
			HOLE SIZE:		17-1/2		INCHES				
			2. INTERM	NIDIATE CA	ASING	:					
8-5/8"		4257'	SIZE:	8-5/8	INCHES	CEMEN	TED WITH:	· · · · · · · · · · · · · · · · · · ·	860		sx
		CURRENT U.DELAWARE	TOC:	Surface		_FEET DETE	RMINED BY:		Circulated		
		PERFS 4874'-5040'	HOLE SIZE:		12-1/4	· · · · · · · · · · · · · · · · · · ·	INCHES				
		PROPOSED TO CMT SQZ OFF U. DEL.	3. LONG	STRING							
	K K K K K K K K K K K K K K K K K K K		SIZE:	5-1/2	2 INCHES	S · CEMEN	ITED WITH:		875		sx
			TOC:	4248	3	_FEET DETEI	RMINED BY:	To	emp. Surve	y	
			HOLE SIZE:		7-7/8	3	NCHES				
			A INJECT	ION INTER	2 √Δ1	6469	FEET TO:		6479	FFFT	
		☑ PKR @	4. 1110201	ion in izi	(PERFORA	TED OR OPEN	HOLE; INDIC				
	X	6400'			"P	ERFORAT	ED"				
		PERFS 6469'-6479'	5. TOTAL	DEPTH:		6700	_FEET				
			6. TUBING	SIZE					•		
5-1/2		6692'	SIZE:	2-7/8	INCHES	LINED WITH	l:•	IPC 505 -	PLASTIC CO	DATING	
	:		SET IN A:	ARROW	SET 1-XS,	PKR	PACKER AT:		6400	FEET:	
THER DA	TA	7									
A.	IS THIS A N	IEW WELL DRILLED FOR I	JECTION?		YES	x	ОИ				
					_		-				
	IF NO, FOR	NWHAT PURPOSE WAS TH	E WELL ORIG	SINALLY DRIL	LED?		PRODUCII	NG OIL AN	D GAS WE	<u></u>	
•			<u></u>	<u></u>	·····	······································	· · · · · · · · · · · · · · · · · · ·				 .
В.	NAME THE	INJECTION FORMATION:		6400' SAI	ND (BRUSI	HY CANYO	N)	·			
C.	NAME THE	FIELD OR POOL (IF APPLI	CABLE)		LUSK WE	ST (DELAV	NARE)	 		·····	
D.		VELL EVER BEEN PERFOR E. SACKS OF CEMENT OR									
	5/92 PEF	RFS 4874'-4892' CIBP (@ 4940', C	URRENTL	Y PRODUC	ING FROM	U. DELAWA	ARE PERF	S 4874'-489	2'	-
E.	GIVE THE	NAME(S) AND DEPTH(S) O	F ANY OVER	OR UNDERLY	YING OIL OR	GAS ZONES II	N THIS AREA:				
	1. YATES	S 2600'-2800'	WATKINS			5. STRAV	VN 11000'-1	1200'	LUSK STR	AWN OIL	
			S. LUSK			6. ATOKA	11200'-114	400'	LUSK ATO	KA GAS	
	2. DELA	WARE 4600'-7100'	W. LUSK LUSK DE	DELAWAR	<u>se</u>	7. MORR	OW 11500'-	12000'		RROW GAS	CAC
										MORROW MORROW GA	
	3. BONE	SPRING 8200'-8950'		S BONE SF NE SPRIN					FORM	C-108	
			S. LUSK	BONE SPF	RING			V DD:	SECTIO		OM
			E. LUSK	BONE SPF	RING			AFFL	TO INJ Parker &	ECT	-14
	4. WOLF	CAMP 10100'-10700'	E. LUSK	OLFCAMP WOLFCAM WOLFCAM	IP OIL	_			Developm WATER INJEC	ent L.P.	
			J. LUSK	**OFLE OWN	OIL.						

PROPOSED INJECTION WELL DATA SHEET

OPERATO	OR: SHACKELFORD	OIL CO.		LEASE:	MOBIL F	EDERAL	 		
WELL NO	4 1650' FWI					T-19-S		R-32-E	
	SCHEMATIC	·							
=		1. SUFACI	E CASING		WELL C	ONSTRUCTIO	ON DATA		
		SIZE:	13-3/8	INCHES	СЕМЕ	ENTED WITH:		475	sx
						ERMINED BY:			
						_			
			IIDIATE CA						
		SIZE:	N/A	INCHES	СЕМЕ	NTED WITH:		N/A	sx
13-3/8"	477	,			FEET DET	ERMINED BY:		N/A	
r ⁱ									
		3. LONG S				_			
				INCHES	CEME	ENTED WITH:		2620	sx
								Circulated	
					NOTE:1"P	FOR 10 1339 C	MT'D W/720	SXS TO CIRCULATE.	
								6476 FEET	
	R			(PERFORAT		N HOLE ; INDI			
		5. TOTAL	DEPTH.		7230	EEET			
	Hali (Pal	6. TUBING	·		7200				
5-1		SIZE:		INCHES	LINED WIT	rH:	IPC 505 -	PLASTIC COATING	
		SET IN A:	ARROW S	•		PACKER AT:		6400 FEET:	
				<u></u>					
OTHER D	ATA								
A.	IS THIS A NEW WELL DRILLED FOR I	NJECTION?		YES	X	NO			
	IF NO, FOR WHAT PURPOSE WAS TH	INALLY DRILL	ED?	PRODUCING OIL AND GAS WELL					
					-			·	
В.	NAME THE INJECTION FORMATION:		6400' SAN	D (BRUSH	Y CANY	ON)			
C.	NAME THE FIELD OR POOL (IF APPLI	CABLE)		LUSK WE	ST (DELA	AWARE)	·		
D.	HAS THE WELL EVER BEEN PERFOR DETAIL, I.E. SACKS OF CEMENT OR			(S)? LIST A	L SUCH PE	ERFORATED INT	TERVALS AN	ND GIVE PLUGGED	
			·····	· · · · · · · · · · · · · · · · · · ·	"				
E.	GIVE THE NAME(S) AND DEPTH(S) O	OR UNDERLY	ING OIL OR	SAS ZONES	IN THIS AREA:				
	1. YATES 2600'-2800'	WATKINS N.E. LUSI		-	5. STRA	WN 11000'-1	11200'	LUSK STRAWN OIL	······································
		S. LUSK	YATES	-	6. ATOK	(A 11200'-11	400'	LUSK ATOKA GAS	
	2. DELAWARE 4600'-7100'	W. LUSK LUSK DE	DELAWARI LAWARE	<u> </u>	7. MORI	ROW 11500'	-12000'	LUSK MORROW GA	
	3. BONE SPRING 8200'-8950'	WATKINS	BONE SPI	- RING				N. LUSK MORROW	
		LUSK BO	NE SPRINC	3	-			FORM C-108	
			BONE SPRI BONE SPRI				APP	SECTION III LICATION FOR AUTHORIZ TO INJECT	ATION
	4. WOLF CAMP 10100'-10700	LUSK WO	OLFCAMP C	DIL				Parker & Parsley Development L.P.	
		E. LUSK V	WOLFCAMI WOLFCAMI	POIL				WATER INJECTION WELL	-

WATER INJECTION WELL

SHACKELFORD OIL			MOBIL FE	DERAL		
OPERATOR			LEASE			
2	1650' FNL & 1650' F\	ΛЛ	SEC-21	T-10-S	R-32-F	
WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP		
TYPE OF WELL:	PRODUCING OIL AN	ID GAS WE	LL	SPUD DATE	: 8/30/88	
SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA		
	SIZE:			CEMENTED WITH:	475	sx
13 2/8*	TOC:	Surface		FEET DETERMINED BY:	Circulated	
	HOLE SIZE:		17-1/2	INCHES		
	2. INTERI	MIDIATE CA	ASING			
	SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
	TOC:	N/A	· · · · · · · · · · · · · · · · · · ·	FEET DETERMINED BY:	N/A	
		 	N/A	. INCHES		
13-3/8* 454	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. PERFO	RATIONS	6490	FEET TO:	6495 FEE	ET
			(PERFORAT	ED OR OPEN HOLE; IND "PERFORAT		-
PERF: 6490-6			ف <u>ن</u> و		FORM C-108	
					SECTION VI ON FOR AUTHORIZATION	V
## PERF: 64900				ALL EVAL	TO INJECT	•
5-1/2" 6690'					arker & Parsley evelopment L.P.	

WATER INJECTION WELL

SHACKELFORD OIL			PLAINS UN	NIT		
OPERATOR	λ		LEASE			
6	1980' FSL & 660' FWL		SEC-21	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP		
TYPE OF WELL:	PRODUCING OIL AND	GAS WEL	L	SPUD DATE:	7/10/9	96
				TABULAR DATA		
SCHEMATIC	1. SUFACE	CASING		TABOCAN DAJA		
	SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx
	TOC:	Surface		FEET DETERMINED BY:	Circula	ted
13-3/8" 82	HOLE SIZE:		17-1/2	INCHES		
	2. INTERM	IDIATE CA	SING			
	SIZE:	10-3/4	INCHES	CEMENTED WITH:	700	sx
10-3/4" 265	TOC:	Surface		FEET DETERMINED BY:	Circula	ted
	HOLE SIZE:		12-1/4	INCHES		
10-3/4" 265	3. INTERM	IDIATE CA	SING			
	SIZE:	8-5/8	INCHES	CEMENTED WITH:	275	sx
	TOC:	3335		FEET DETERMINED BY:	Calculat	ted
	HOLE SIZE:		11	INCHES		
8-5/8" 4490'	4. LONG S	TRING				
8-5/8" 4490'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	200	sx
	TOC:	10714		FEET DETERMINED BY:	Calculat	ted
	HOLE SIZE:		7-7/8	INCHES	•	
	5. TOTAL I	DEPTH:	11690	FEET		
	6. PERFOR	RATIONS				
	·		11516 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDI	11530 CATE WHICH)	FEET
			•	"PERFORATI	ED"	
					FORM C-108 SECTION VI	
PERFS				APPLICAT	ION FOR AUTHORIZ	ZATION
11516'-					TO INJECT	
					arker & Parsley	
5-1/2" 11690)'			D€	evelopment L.P.	

WATER INJECTION WELL TABULATION OF WELL DATA

SHAC	CKELFORD OIL			MOBIL FE	DERAL			
OPERA	TOR			LEASE		,		
	3	2310' FSL & 330' FWI	<u>. </u>	SEC-21	T-19-S			
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANG	E	
	TYPE OF WELL:	PRODUCING OIL AN	D GAS WE	<u>LL</u>	SPUD DATE	:10/	25/89	
	SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA			
			-	INCHES	CEMENTED WITH:	4	75	gy
		,			FEET DETERMINED BY:		ulated	
13-3/8"	45					Circ	uiateu	
		HOLE SIZE:		17-1/2	INCHES			
		2. INTERN	MIDIATE CA	ASING				
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	10	90	sx
		TOC:	150	 	FEET DETERMINED BY:	Temp.	Survey	
		HOLE SIZE:		11	INCHES			
8-5/8"	425	^{6'} 3. LONG \$	STRING					
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	10	000	sx
	4250	TOC:	3240)	FEET DETERMINED BY:	Calc	ulated	
		HOLE SIZE:		7-7/8	INCHES			
		4. TOTAL	DEPTH:	7240	FEET			
		5. PERFO	RATIONS					
				6478		6485	FEET	
				(PERFURA)	ED OR OPEN HOLE; IND PERFORAT			
		,				,		
				3*		FORM C-108		
	TBG @	7111'				SECTION VI		
	TBG @ PERF: 6478*-	s			APPLICAT	ION FOR AUTHO	RIZATION	
						arker & Parsle	-	
5-1	7240				De	evelopment L.I	۲.	
					WAT	ER INJECTION W	/ELL	

SHACKEI	FORD OI	L			LYNCH			
PERATOR					LEASE			
	2	1980' FSL &	660' FWL		SEC-21	T-19-S	R-32-E	
v	VELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE	
TYPE	OF WELL:	PLUGGED 8	ABANDON	IED	-	SPUD DAT	E: <u>4/</u> 11	/42
\$	SCHEMATIC		1. SUFAC	CE CASING		TABULAR DATA		
		10 SXS CMT 100'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH	н:50	s
			TOC:	Surface		FEET DETERMINED BY:	Circul	ated
			HOLE SIZE		11	INCHES		
			2. INTER	MIDIATE CA	ASING			
	222		SIZE:	N/A	INCHES	CEMENTED WIT	H: N/A	s
			TOC:	N/A	· · · · · · · · · · · · · · · · · · ·	FEET DETERMINED BY:	N/A	
			HOLE SIZE	:	N/A	INCHES		
8-5/8"		905'	3. LONG	STRING				
2	CIBP	10 SXS CMT CIBP @ 915'	SIZE:	5-1/2	INCHES	CEMENTED WIT	н: 100	s
	CBP	3.B. @ 3.10	TOC:	2400		FEET DETERMINED BY:	Temp. S	urvey
			HOLE SIZE		7-7/8	INCHES		
			4. TOTAL	_ DEPTH:	2820	FEET		
			5. PERF	DRATIONS				
					2680 (PERFORAT	FEET TO: ED OR OPEN HOLE; INI PERFORATED"	2955 DICATE WHICH)	FEET
						PERFORATED IN A	NY OTHER ZONE(S)?
						ED INTERVALS AND ENT OR PLUG(S) U		NONE
					3 _2			
							 	
							FORM C-108 SECTION VI	,
		CUT OFF 5-1/2" CSG @ 2110"				Al	PPLICATION FOR AUTHO	ORIZATION
		á					Parker & Parsier	
		GRAVEL FROM TD TO 2525'					WATER INJECTION	
5-1 <i>/2</i> *		2795'					TABULATION OF WEL	L DATA

Parker & Parsley

Development L.P.

LUSK DEEP "A"

OPERATOR

LEASE

HOLE SIZE: 17-1/2 INCHES

 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 13-3/8" 8-5/8" **PERFS** 6468'-6478' 4 SXS CMT CIBP @ 7030'

TABULAR DATA

1. SUFACE CASING

TOC: Surface FEET DETERMINED BY: Circulated

2. INTERMIDIATE 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

______FEE

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

Parker & Parsley Development L.P. OPERATOR

LUSK DEEP UNIT "A"

OPERA	TOR						LEASE			"		
	WELL			980' FSL		L		<u> </u>	T-19-S		R-32-E	
	WELL	NO.										
	TYPE OF V	VELL: _	Р	RODUCI	NG OIL AN	D GAS WE	<u>LL</u>	-	SPUD DATE:	10/5/62	RE-ENTRY	3/13/88
	SCHE	MATIC	:		1. SUFAC	E CASING		TABULAI	R DATA			
					SIZE:	13-3/8	INCHES	CEMENTED	WITH:		1180	sx
٠		8888			TOC:	Surface		FEET DETE	RMINED BY:		Circulated	
13-3/8"	66231	888888888888888888888888888888888888888	822'		HOLE SIZE:		17-1/2		_INCHES			•
		2000			2. INTERN	NIDIATE CA	ASING					
					SIZE:	9-5/8	INCHES	CEMENTED	WITH:		2365	sx
		2002200			TOC:	Surface		FEET DETE	RMINED BY:	<u>.</u>	Circulated	
		Secondary			HOLE SIZE:		12-1/4		INCHES			
9-5/8"			4226'		3. LONG S	STRING		NOTE: 6/88	CUT AND PULL	ED 7185' OF	4-1/2 CSG	
	3				SIZE:	4-1/2	INCHES	CEMENTED	WITH:		300	sx
					TOC:	10000)	FEET DETE	RMINED BY:		Circulated	
	1				HOLE SIZE:		7-7/8	· · · · · ·	_INCHES			
	T THE INC.		PERFS 6462'-6472'		4. PRODU	CTION ST	RING					
5- 1 <i>[</i> 2	2"		7165'		SIZE:	5-1/2	INCHES	CEMENTED	WITH:	, , , , , , , , , , , , , , , , , , , ,	500	sx
			CUT OFF 4-1/ @ 7185'	2 CSG	TOC:	5595		FEET DETE	RMINED BY:		Calculated	
		200			HOLE SIZE:		7-7/8		INCHES			
					5. TOTAL	DEPTH:	11531		FEET			
					6. PERFO	RATIONS						
				•			6462 (PERFORAT		FEET TO: N HOLE ; INDIC	6472 ATE WHICH		EET
				••			·		PERFORATE	D"		
										FORM C		
		O	5 SXS CMT RG. PERFS 1430'-11470' (CI	MENTED)					APPLICATION	ON FOR A	UTHORIZATI CT	ON
	2000	30000000	. , .	,						rker & F	-	
4	-1/2"		11531'						De	velopme	ent L.P.	

WATER INJECTION WELL TABULATION OF WELL DATA

OPERATOR LEASE R-32-E 990' FSL & 660' FEL SEC-20 T-19-S 21 FOOTAGE LOCATION SECTION TOWNSHIP RANGE WELL NO. PRODUCING OIL AND GAS WELL 1997 TYPE OF WELL: SPUD DATE:

TABULAR DATA SCHEMATIC 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: SIZE: FEET DETERMINED BY: Circulated тос: Surface 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: SIZE: 1325 TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 12-1/4 INCHES 8-5/8" 3. LONG STRING SIZE: 5-1/2 INCHES CEMENTED WITH: 1530 TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 7200 FEET 5. PERFORATIONS 6460 FEET TO: 6480 (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED" **FORM C-108** TBG@ 6723' 6460'-6480'

SECTION VI

675

FEET

SX

SX

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

WELL DATA SHEET

CULBERTSON-IRWIN	INC.			LYNCH			
OPERATOR				LEASE			
4	660' FSL & 6	60' FEL		SEC-20	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	DRY HOLE			-	SPUD DATE:	10/30/43	
SCHEMATIC .	_	1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	UNKNOWN	sx
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	···
		HOLE SIZE:		UNKNOWN	INCHES		
		2. INTER	MIDIATE CA	ASING			
		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. PERFC	RATIONS				
	·			UNKNOWN (PERFORATI	FEET TO UI		
					PERFORATED" PERFORATED IN AN		
FROM: DOWNS OIL AND					ED INTERVALS AND (ENT OR PLUG(S) US		
HOBBS, N.M. , 8	-				UNKNOWN		
WELLS DRILLED BAC	K IN THE 1940'S			y : Ā			
THAT WERE ON FEDER	AL LAND WERE					FORM C-108 SECTION VI	
NOT REQUIRED TO FUR	RNISH THE OCD				APPLICA	ATION FOR AUTHORIZATION TO INJECT	1
WITH COPIES OF THE P	UGGING LOG.					Parker & Parsley Development L.P.	
SO ALL THAT IS AVAILA	ABLE IS THE				W	ATER INJECTION WELL	
INFORMATION ON THE	SCOUT TICKET.	1			74 m	U ATION OF WELL DATA	

ERSEY & CO.				ATLANTIC		•		
PERATOR	1			LEASE				
1		1650' FSL & 990	' FWL	SEC-21	T-19-S	R-32-E		
WELL NO.		FOOTAGE LOCATION			TOWNSHIP	RANGE		
TYPE OF WELL:		DRY HOLE		_	SPUD DATE:	9/18/59	ı	
SCHEMATIC					TABULAR DATA			
CEMENT MARKER	~	1. SUFAC	E CASING					
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	60		sx
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	 -	
		HOLE SIZE:		UNKNOWN	INCHES			
		2. INTERI	MIDIATE C	ASING				
	FILLED WITH MUD	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		
8-5/8*	917'	HOLE SIZE:		N/A	INCHES			
	10 SXS CMT, PLUG	4. TOTAL	DEPTH:	2710	FEET			
		5. PERFC	RATIONS					
				(PERFORAT	FEET TO:	N/ATE WHICH)	FEET	
		LIST A	LL SUCH F	ERFORATE	. PERFORATED IN ANY ED INTERVALS AND GIV ENT OR PLUG(S) USED N/A	/E PLUGGED		
	FILLED WITH MUD							_
				<u>V.</u> /				
			·			FORM C-108		
						SECTION VI		
					APPLI	CATION FOR AUTHORIS TO INJECT	ZATION	
						Parker & Parsley Development L.P.		
APPEAR ON THE CO.	10 SXS CMT, PLUG 2710'	,			v	NATER INJECTION WEL	L	

SHAG	CKELFORD	DIL			LYNCH			
OPERA					LEASE		 	
	1	660' FSL & 6	60' FWL		SEC-21	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOC			SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PLUGGED &	ABANDON	ED	-	SPUD DATE:	12/18/41	
	SCHEMATIO	c	1. SUFAC	E CASING		TABULAR DATA		
			SIZE:	8-1/4	INCHES	CEMENTED WITH:	50	\$X
			TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
8-1/4"		920.	HOLE SIŻE:		UNKNOWN	INCHES		
			2. INTER	MIDIATE CA	ASING			
			SIZE:	7	INCHES	CEMENTED WITH:	100	sx
	7		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
			HOLE SIZE:		UNKNOWN	INCHES		,
			3. LONG	STRING				
•	7	2696'	SIZE:	UNKNOWN	INCHES	CEMENTED WITH:	UNKNOWN	sx
			TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
			HOLE SIZE:		UNKNOWN	INCHES		
		2696'	4. TOTAL	DEPTH:	2751	FEET		
			5. PERFC	RATIONS	$ \setminus$ $/$			
					(PERFORAT	FEET TO UI		
			6. HAS TI	HE WELL E	VER BEEN	PERFORATED" PERFORATED IN AN	Y OTHER ZONE(S)?	
FR	OM: DOWNS OI	L AND RESEARCH				ED INTERVALS AND (ENT OR PLUG(S) US		
	1424	PAIGE				· · · · · · · · · · · · · · · · · · ·		
	HOBBS, N.	M., 88240			3 ²	UNKNOWN		
W	ELLS DRILLED	BACK IN THE 1940'S						
TH	AT WERE ON F	EDERAL LAND WERE					FORM C-108 SECTION VI	
NO	T REQUIRED TO	O FURNISH THE OCD				APPLICA	ATION FOR AUTHORIZATION TO INJECT	I
		THE PUGGING LOG.					Parker & Parsley Development L.P.	
so	ALL THAT IS A	VAILABLE IS THE				W	ATER INJECTION WELL	
INF	ORMATION ON	THE SCOUT TICKET.				TAB	ULATION OF WELL DATA	

SHAC	KELFORD OIL			PLAINS FE	EDERAL			
OPERAT	OR			LEASE				
	4 - X	710' FSL & 660' FWL		SEC-21	T-19	-s	R-32-E	
	WELL NO.	FOOTAGE LOCATION		SECTION	TOW	NSHIP	RANGE	
	TYPE OF WELL:	PRODUCING OIL AN	D GAS WE	LL	SPUD	DATE:	1/4/6	4
				<u> </u>	TABULAR DA	TA		··· — ·
	SCHEMATIC	1. SUFAC	E CASING		TABULAR DA	<u>IA</u>		
•		SIZE:	13-3/8	INCHES	CEMENTED WITH:		750	S.
		TOC:	Surface		FEET DETERMINE	D BY:	Circulat	ed
13-3/8"	827	HOLE SIZE:		17-1/2	INCH	ES		
		2. INTERN	MIDIATE CA	ASING				
		SIZE:	10-3/4	INCHES	CEMENTED WITH:		700	s:
	2662'	TOC:	Surface		FEET DETERMINE	D BY:	Circulat	ed
		HOLE SIZE:		12-1/4	INCH	ES		
10-3/4"	2662'	3. INTERN	MIDIATE CA	SING				
		SIZE:	8-5/8	INCHES	CEMENTED WITH:		250	
		TOC:	3500)	FEET DETERMINE	D BY:	Temp. Su	rvey
	4540	HOLE SIZE:		9-7/8	INCH	ES		
		4. LONG	STRING					
8-5/8	4540	SIZE:	5-1/2	INCHES	CEMENTED WITH:		200	s
,	A	TOC:	10714	<u> </u>	FEET DETERMINE	D BY:	Calculat	ed
		HOLE SIZE:		7-7/8	INCH	ES		
(5. TOTAL	DEPTH:	11514	FEET			
		6. PERFO	RATIONS			•		
				11435			479	_FEET
				(PERFORA)	ED OR OPEN HOLE PERFO	ORATED"	ліспу	
							A C-108	
					APPI		TION VI OR AUTHORIZ	ATION
	PERFS 11435'-114	79'				TO I	NJECT	
	PERFS 11435'-114						& Parsley	
5-1/	2" 11514'					Develop	ment L.P.	

WATER INJECTION WELL TABULATION OF WELL DATA

SHACKELFORD OIL				PLAINS FE	DERAL		··
OPERATOR				LEASE			
	1930' FSL &				T-19-S		
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED 8	ABANDON	ED	•	SPUD DATE	: 9/12/63	<u>.</u>
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
	25 SXS CMT 35'-SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH	i: 725	sx
		TOC:	Surface	···········	FEET DETERMINED BY:	Circulated	
13-3/8"	831'	HOLE SIZE:		17-1/2	INCHES		
	150 SXS CMT @723'-930'	2. INTERN	MIDIATE CA	SING			
		SIŻE:	9-5/8	INCHES	CEMENTED WITH	1000	\$)
	2000 SXS CMT	TOC:	Surface		FEET DETERMINED BY:	Circulated	
	@2336'-2445'	HOLE SIZE:		11	INCHES		
		3. LONG	STRING				
9-5/8"	4290'	SIZE:	N/A	INCHES	CEMENTED WITH	t: N/A	SX
"		TOC:	N/A		FEET DETERMINED BY:	N/A	
	_	HOLE SIZE:			INCHES		
		4. TOTAL	DEPTH:	11517	FEET		_
	<u> </u>	5. PERFO	RATIONS	N/A (PERFORAT)	FEET TO: ED OR OPEN HOLE; IND PERFORATED"	N/A FEE	Ϊ
V	OADED HOLE WITH MUD TO 445'	LIST A	LL SUCH P	ERFORATE			VE.
		*		, ,			
						FORM C-108	
					АР	SECTION VI PLICATION FOR AUTHORIZATIO TO INJECT	N
						Parker & Parsley Development L.P.	

WATER INJECTION WELL
TABULATION OF WELL DATA

			* 9			+ 1		3 ,4	2,6	≠ 4-B ≠ 1	А
• 1	1.0	1		1 7			1 • 1	\$ 5	2 •	1 ^{3-B}	8, € 3-A
	18	+ 1	≠ 11	17		+ 2	1	√ 1	# 1	1-B • 4-A •	5-A, #
	≠ 2				1,5	•1			a	?-B● ø3	2-A
+ 1	\$ -3	•1		19 ●	17	•1	2		% 1	+	2
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% 6	19		LUSK-DEEP UNIT "A"	LUSK DEEP	21 0 1980 FE	PLAINS FEDERA 1 LYNCH	• -				2•
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تخذد

PROPOSED INJECTION WELL DATA SHEET

Parker & Parsley LEASE: LUSK DEEP UNIT "A" Development L.P. PERATOR: SEC-20 T-19-S R-32-E 330' FSL & 1980' FEL ELL NO 14 SECTION TOWNSHIP RANGE **FOOTAGE LOCATION SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 1000 INCHES CEMENTED WITH: SX SIZE 13-3/8" Surface Circulated FEET DETERMINED BY: TOC: 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 1700 SX 8-5/8 SIZE: INCHES CEMENTED WITH: 4500 TOC: Surface , FEET DETERMINED BY: Circulated 12-1/4 **INCHES** HOLE SIZE: 3. LONG STRING 850 5-1/2 INCHES SIZE: CEMENTED WITH: SX 2320 Temp. Survey FEET DETERMINED BY: HOLE SIZE: 7-7/8 INCHES 6459 4. INJECTION INTERVAL 6452 FEET FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6380 5. TOTAL DEPTH: 7200 PERFS 6452-6459 6. TUBING SIZE 7199 5-1/2" 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6380 FEET: THER DATA Х YES IS THIS A NEW WELL DRILLED FOR INJECTION? NO IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: B. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. 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. 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 **FORM C-108** SECTION III S. LUSK BONE SPRING **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P. E. LUSK WOLFCAMP OIL WATER INJECTION WELL

S. LUSK WOLFCAMP OIL

PRCTOSED INJECTION WELL DATA SHEET Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL PERATOR: Development L.P. T-19-S R-32-E 660' FNL & 660' FEL SEC-29 ELL NO 11 FOOTAGE LOCATION SECTION TOWNSHIP RANGE **SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 675 SX 13-3/8 INCHES CEMENTED WITH: SIZE: 850 13-3/8" Circulated Surface FEET DETERMINED BY: TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 8-5/8 CEMENTED WITH: SX INCHES SIZE 4050 Circulated FEET DETERMINED BY: TOC: Surface HOLE SIZE: _____ 11 INCHES 3. LONG STRING 1265 5-1/2 INCHES CEMENTED WITH: SX SIZE: Circulated TOC: Surface FEET DETERMINED BY: HOLE SIZE: 7-7/8 6425 FEET TO: 6450 4. INJECTION INTERVAL FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6360 5. TOTAL DEPTH: 7200 FEET **PERFS** 6425'-6450' 6. TUBING SIZE 7200 5-1/2" 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET: THER DATA X YES IS THIS A NEW WELL DRILLED FOR INJECTION? NO IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) В. NAME THE FIELD OR POOL (IF APPLICABLE) * LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. **WATKINS YATES** 1. YATES 2600'-2800' 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 **FORM C-108** S. LUSK BONE SPRING SECTION III

E. LUSK BONE SPRING

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL

4. WOLF CAMP 10100'-10700' 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 LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. PERATOR: **SEC-29** T-19-S R-32-E ELL NO___ 1980' FNL & 1980' FEL 10 TOWNSHIP ' RANGE SECTION FOOTAGE LOCATION SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 675 SX 13-3/8 INCHES CEMENTED WITH: SIZE: 13-3/8" 850 Surface Circulated FEET DETERMINED BY: TOC: 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: SIZE: 4050 FEET DETERMINED BY: Circulated TOC: HOLE SIZE: _____ 11 INCHES 3. LONG STRING CEMENTED WITH: 1265 5-1/2 INCHES SIZE: SX Circulated TOC: Surface FEET DETERMINED BY: HOLE SIZE: 7-7/8 INCHES 6450 4. INJECTION INTERVAL 6425 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" PERFS 5. TOTAL DEPTH: 7200 FEET 6. TUBING SIZE 7200 5-1/2" LINED WITH: IPC 505 - PLASTIC COATING SIZE: 2-7/8 INCHES SET IN A: ARROW SET 1-XS, PKR PACKER AT: THER DATA X YES IS THIS A NEW WELL DRILLED FOR INJECTION? IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) LUSK WEST (DELAWARE) C. NAME THE FIELD OR POOL (IF APPLICABLE) 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. 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 **FORM C-108** S. LUSK BONE SPRING SECTION III APPLICATION FOR AUTHORIZATION E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P. E. LUSK WOLFCAMP OIL **WATER INJECTION WELL** S. LUSK WOLFCAMP OIL

PR OSED INJECTION WELL DATA SHEET

بالمار المعقد واستنظاه الماض لأشارين

PERATOR:

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

ELL NO	20	660' FEL &	2310' FSL	SEC-20	T-19-S	R-32-E	
		FOOTAGE L			TOWNSHIP	RANGE	
	SCHEMATIC				WELL CONSTRUCT	ON DATA	
			1. SUFAC	E CASING			
						•	
13-3/8"		872'	SIZE:	13-3/8 INCHES	CEMENTED WITH:	900	SX
13-370		_	TOC:	Surface	FEET DETERMINED BY:	Circulated	
			HOLE SIZE:	17-1/2	INCHES		
		*	2. INTERN	MIDIATE CASING			•
		•	SIZE:	8-5/8 INCHES	S CEMENTED WITH:	2350	sx
8-5/8"		4485'			-	Circulated	
				12-1/4	-		
			3. LONG S		-		
					O OFMENTED MATCH	800	ev
						800	
						Temp. Surve	<u>Y</u>
			HOLE SIZE:	7-7/8	3 INCHES		
			4. INJECT		6469 FEET TO:	6487 F	EET
	⊠ ⊠ P	PKR @ 400'			ERFORATED"		
	1829 I 1829	ERFS 469'-6487'	5. TOTAL	DEPTH:	7230 FEET		
	CIBP I		6. TUBING	G SIZE			
5-1	12" 72	230'	SIZE:	2-7/8 INCHES	LINED WITH:	IPC 505 - PLASTIC CO	ATING
			SET IN A:	ARROW SET 1-XS,	PKR PACKER AT	: 6400 F	EET:
THER D	ATA						
A.		ELL DRILLED FOR IN	JECTION?	YES	X NO		
						INIC OIL AND CARVAITS	
	IF NO, FOR WHAI	FPURPOSE WAS THE	= WELL ORIG	GINALLY DRILLED?	PRODUC	ING OIL AND GAS WEL	L
				0.4001.0.4115.4554.00			
В.		TION FORMATION:		6400' SAND (BRUS			
C.	NAME THE FIELD	OR POOL (IF APPLIC	CABLE)	LUSK WI	EST (DELAWARE)		· · · · · · · · · · · · · · · · · · ·
D.		VER BEEN PERFORA KS OF CEMENT OR F				TERVALS AND GIVE PLUGG , WITH 4 SK. CMT. ON	
		· · · · · · · · · · · · · · · · · · ·					
E.	GIVE THE NAME(S) AND DEPTH(S) OF	ANY OVER	OR UNDERLYING OIL OR	; GAS ZONES IN THIS AREA	:	
	1. YATES 260	0'-2800'	WATKINS		5. STRAWN 11000	11200' LUSK STRA	WN OIL
,			N.E. LUSK		6. ATOKA 11200'-1	400' LUSK ATOI	KA GAS
	2. DELAWARE	4600'-7100'	W. LUSK	DELAWARE	7. MORROW 11500	'-12000' LUSK MOR	ROW GAS
			LUSK DE				MORROW GAS
,	A DALLE 222	NIO 00001 00001				N. LUSK M	ORROW GAS
	3. BONE SPRI	NG 8200'-8950'		S BONE SPRING INE SPRING		FORM O	-10R
				BONE SPRING		SECTIO	

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

Parker & Parsley

Development L.P.

LUSK DEEP "A"

OPERATOR LEASE

> 21 WELL NO.

990' FSL & 660' FEL FOOTAGE LOCATION

SEC-20 SECTION

T-19-S TOWNSHIP R-32-E RANGE

TYPE OF WELL:

13-3/8"

8-5/8"

PRODUCING OIL AND GAS WELL

SPUD DATE:

1997

SCHEMATIC

1. SUFACE CASING

13-3/8 INCHES CEMENTED WITH:

SX

TOC:

FEET DETERMINED BY: Circulated Surface

HOLE SIZE: 17-1/2 INCHES

2. INTERMIDIATE CASING

SIZE:

8-5/8 INCHES CEMENTED WITH:

1325

TOC: Surface FEET DETERMINED BY: Circulated

TABULAR DATA

HOLE SIZE: 12-1/4 INCHES

3. LONG STRING

5-1/2 INCHES CEMENTED WITH:

TOC: Surface FEET DETERMINED BY: Circulated

HOLE SIZE: 7-7/8 INCHES

4. TOTAL DEPTH: 7200

5. PERFORATIONS

6460 FEET TO:

6480 FEET

(PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED"

TBG@ 6723'

PERFS 6460'-6480'

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

SCHEMATIC TABULAR DATA 1. SUFACE CASING 10 SXS CMT (25 SXS CMT 7700-800"	RANGE
TYPE OF WELL: PLUGGED & ABANDONED SPUD DATE: SCHEMATIC 1. SUFACE CASING 1. SUFACE SIZE: 13-3/8 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: 25 SXS CMT 700-800' 762' 13-3/8' 2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: 25 SXS CMT 2400'-2500' TOC: Surface FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3774'-3874' 3796' 3796'	RANGE
TYPE OF WELL: PLUGGED & ABANDONED SPUD DATE: SCHEMATIC 1. SUFACE CASING 1. SUFACE SIZE: 13-3/8 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: 25 SXS CMT 700-800' 762' 13-3/8' 2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: 25 SXS CMT 2400'-2500' TOC: Surface FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3774'-3874' 3796' 3796'	RANGE
10 SXS CMT	2/11/64
10 SXS CMT	
13-3/8" 10 SXS CMT	
13-3/8" 10 SXS CMT	
## SURFACE SIZE: 13-3/8 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: 25 SXS CMT 700'-800' HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: 25 SXS CMT 2400'-2500' TOC: Surface FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3774'-3874' 3. LONG STRING 3796' 3796	
25 SXS CMT 700'-800' 762' 2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: 25 SXS CMT 2400'-2500' TOC: Surface FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3774'-3874' 3796' 8-5/8"	775 sx
2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: 25 SXS CMT 2400'-2500' TOC: Surface FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3774'-3874' 3. LONG STRING 3796'	Circulated
2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: 25 SXS CMT 2400'-2500' TOC: Surface FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3774'-3874' 3. LONG STRING 3796'	
25 SXS CMT 2400'-2500' TOC: Surface FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3774'-3874' 3. LONG STRING 3796'	
2400'-2500' TOC: Surface FEET DETERMINED BY: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3774'-3874' 3. LONG STRING 3796'	2350 sx
35 SXS CMT 3774'-3874' 3. LONG STRING 8-5/8"	Circulated
3774'-3874' 3. LONG STRING 8-5/8" 3796'	
TOC: 7600 FEET DETERMINED BY: Te	600 sx
<u> </u>	emp. Survey
25 SXS CMT 6300'-6400' HOLE SIZE: 7-7/8 INCHES	
S7UB 4-1/2" CSG 4. TOTAL DEPTH: 11467 FEET	
	
(PERFORATED OR OPEN HOLE; INDICATE WHICH) PERFORATED"	,
6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER 2 LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUG	- ·
T1371 FEET TO: 11422 (PERFORATED OR OPEN HOLE; INDICATE WHICH) PERFORATED" 6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER Z LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUG DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. CUT 4-1/2" CSG 25 SXS CMT 10920"-11000" APPLICATION FOR TO IT OF THE PROPERTY OF THE PR	NONE
	
4 2 40	
4 £ 2 9 0 CUT 4-1/2" CSG - 1 9 0 FORM	VI C-108 TION VI
25 SXS CMT 1650 3300 APPLICATION 50	OR AUTHORIZATION
25 SXS CMT 1650 27 50 APPLICATION FO TO I	NJECT
Develop	& Parsley pment L.P.
PERFS @ 11371' - 11422' WATER INJ	
4-1/2* 11467 Z//3/ TABULATION	ECTION WELL

Parker & Parsley Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERAT	OR					LEASE			-
		2	990' FNL &	990' FWL		SEC-29	T-19-S	R-32-E	
	WE	LL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
	TYPE O	F WELL: _	PLUGGED	& ABANDON	ED	-	SPUD DATE:	3/15/63	
	SC	HEMATIC	:	4 SHEAC	E CASING		TABULAR DATA		
	180 R201		T8881888	I. SUFAC	E CASING				
			10 SXS CMT @ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	900	SX
			25 SXS CMT	TOC:	Surface	·	FEET DETERMINED BY:	Circulated	
13-3/8*		, See	@ 700'-800' 827'	HOLE SIZE:		17-1/2	INCHES		
				2. INTER	MIDIATE CA	ASING			
			25 SXS CMT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2500	\$X
			@ 2400'-2500'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
				HOLE SIZE:		11	INCHES		
8-5/8			4490'	3. LONG	STRING				
6-5/6			35 SXS CMT @ 4497'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	5X
	Ě	28 1		TOC:	10100)	FEET DETERMINED BY:	Temp. Survey	
			25 SXS CMT 4-1/2" STUB @ 6497'	HOLE SIZE:		7-7/8	INCHES		
			@ 6497	4. TOTAL	DEPTH:	11406	FEET		
				5. PERFO	RATIONS				
				0 2		11330	FEET TO:	11340 FEET	
						(PERFORATI	ED OR OPEN HOLE; INDI	CATE WHICH)	
							PERFORATED" PERFORATED IN AN		
	8						D INTERVALS AND C		
		1		DETAIL	-, I.E. SACI	13 OF CEMI	ENT OR PLUG(S) USE	ED. NONE	
						> *	······································		
								FORM C-108	
	:	8						SECTION VI	
							APPLICA	TO INJECT	ł
			25 SXS CMT PERFS 11330'-11340'					Parker & Parsley Development L.P.	
			PERFS 11330'-11340'				WA	TER INJECTION WELL	
4.4	ا -رم		11406				TABL	JLATION OF WELL DATA	

				~		
CULBERTSON-IRWIN INC.			LYNCH			<u>-</u>
	60' FSL & 660' FEL OOTAGE LOCATION	 	SEC-20	T-19-S TOWNSHIP		
-						
TYPE OF WELL:	RY HOLE		-	SPUD DATE:	10/30/43	
SCHEMATIC	1. SUFA	CE CASING		TABULAR DATA		
	SIZE:	8-5/8	INCHES	CEMENTED WITH:	UNKNOWN	sx
	TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
2881	HOLE SIZE	::	UNKNOWN	INCHES		
	2. INTER	MIDIATE CA	ASING			
	SIZE:	UNKNOWN	INCHES	CEMENTED WITH:	UNKNOWN	5x
	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	<u></u>	UNKNOWN	INCHES		,
	4. TOTA	L DEPTH:	2820	FEET		
	5. PERF	ORATIONS	UNKNOWN	FEET TO UN	IKNOWN FEET	
			(PERFORAT	ED OR OPEN HOLE; INDIC PERFORATED"	CATE WHICH)	
	6. HAS T	HE WELL E	VER BEEN	PERFORATED IN AN	Y OTHER ZONE(S)?	
FROM: DOWNS OIL AND RESE	ST A	ALL SUCH P	ERFORATE	ED INTERVALS AND G ENT OR PLUG(S) USE	SIVE PLUGGED	
1424 PAIGE						
HOBBS, N.M. , 88240			•	UNKNOWN		
WELLS DRILLED BACK IN TI	1E 1940'S					
THAT WERE ON FEDERAL LA	ND WERE				FORM C-108 SECTION VI	
NOT REQUIRED TO FURNISH	THE OCD			APPLICA	TO INJECT	N
WITH COPIES OF THE PUGGIN	IG LOG.				Parker & Parsley	

SO ALL THAT IS AVAILABLE IS THE

INFORMATION ON THE SCOUT TICKET.

Development L.P.

WATER INJECTION WELL

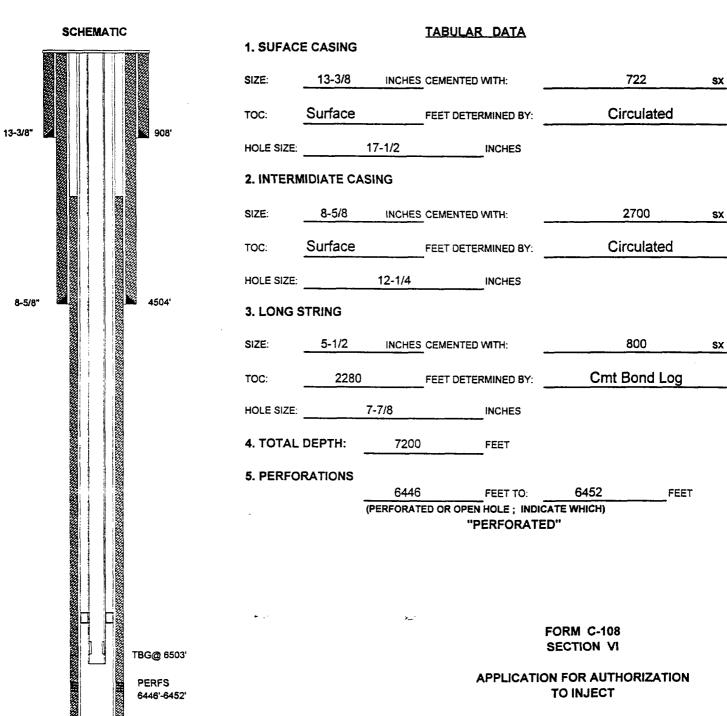
Parker & Parsley

Development L.P.

7192'

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	S WELL	SPUD DATE:	4/16/88	
			 .		



Parker & Parsley Development L.P.

WATER INJECTION WELL

WELL DATA SHEET Parker & Parsley Development L.P. SOUTHERN CALIFORNIA FEDERAL OPERATOR 1980' FNL & 660' FEL SEC-29 T-19-S R-32-E FOOTAGE LOCATION SECTION WELL NO. TOWNSHIP RANGE 3/23/62 PRODUCING OIL AND GAS WELL SPUD DATE: TYPE OF WELL: **SCHEMATIC** TABULAR DATA 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: SIZE: SX Surface FEET DETERMINED BY: Circulated TOC: 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 9 INCHES CEMENTED WITH: 2725 SIZE: TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 12-1/4 INCHES 3. LONG STRING 5-1/2 INCHES CEMENTED WITH: 2450 FEET DETERMINED BY: est. top of cmt sqz. TOC: HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 12834 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 **FORM C-108** SECTION VI RET @ 11292'

W/160 SXS

11410'-11430'

PERFS

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

OPERATOR LEASE T-19-S 1980' FSL & 1980' FEL SEC-20 R-32-E FOOTAGE LOCATION SECTION TOWNSHIP RANGE PRODUCING OIL AND GAS WELL SPUD DATE: 10/5/62 RE-ENTRY 3/13/88 TYPE OF WELL: TABULAR DATA SCHEMATIC 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 1180 SIZE: SX Surface FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 17-1/2 INCHES 13-3/8" 2. INTERMIDIATE CASING 9-5/8 INCHES CEMENTED WITH: 2365 SIZE: SX Surface FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 12-1/4 INCHES 9-5/8" 3. LONG STRING NOTE: 6/88 CUT AND PULLED 7185' OF 4-1/2 CSG 300 SIZE: 4-1/2 INCHES CEMENTED WITH: 10000 FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 7-7/8 INCHES PERFS 6462'-6472' 4. PRODUCTION STRING 7165 5-1/2" SIZE: 5-1/2 INCHES CEMENTED WITH: 500 SX CUT OFF 4-1/2 CSG FEET DETERMINED BY: Calculated TOC: 5595 @ 7185 HOLE SIZE: 7-7/8 INCHES 5. TOTAL DEPTH: 11531 FEET 6. PERFORATIONS 6472 FEET 6462 FEET TO: (PERFORATED OR OPEN HOLE: INDICATE WHICH) "PERFORATED" **FORM C-108** SECTION VI 25 SXS CMT **APPLICATION FOR AUTHORIZATION** ORG. PERFS TO INJECT 11430'-11470' (CMENTED) Parker & Parsley Development L.P. 11531'

WATER INJECTION WELL TABULATION OF WELL DATA

SHACKELFORD OIL			PLAINS FE	DERAL		
PERATOR			LEASE			
4 - X	710' FSL & 660' FWL		SEC-21	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHI		
TYPE OF WELL:	PRODUCING OIL AND	GAS WEL	<u>L</u>	SPUD DAT	TE: 1/4/64	···
SCHEMATIC	1. SUFACE	CASING		TABULAR DATA		
	SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx
	TOC: <u>\$</u>	Surface		FEET DETERMINED BY	Circulated	
13-3/8" 2 827'	HOLE SIZE:		17-1/2	INCHES		
	2. INTERMI	DIATE CA	SING			
	SIZE:	10-3/4	INCHES	CEMENTED WITH:	700	sx
10-3/4" 2662'	тос:	Surface		FEET DETERMINED BY	Circulated	
	HOLE SIZE:		12-1/4	INCHES		
10-3/4" 2662'	3. INTERMI	DIATE CA	SING			
,	SIZE:	8-5/8	INCHES	CEMENTED WITH:	250	sx
	TOC:	3500		FEET DETERMINED BY	r: Temp. Survey	/
	HOLE SIZE:		9-7/8	INCHES		
	4. LONG ST	RING				
8-5/8" 4540'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	200	sx
	тос: _	10714		FEET DETERMINED BY	c Calculated	
	HOLE SIZE:		7-7/8	INCHES		
	5. TOTAL D	EPTH:	11514	FÉET		
	6. PERFOR	ATIONS				
			11435	FEET TO: ED OR OPEN HOLE; IN		EET
			(FERFORATI	"PERFORA		
					FORM C-108	
				APPLICA	SECTION VI ATION FOR AUTHORIZATION	ON
PERFS 11435'-11479	9'				TO INJECT	
PERFS 11435'-11479	-				Parker & Parsley	
5.107					Development L.P.	

WATER INJECTION WELL TABULATION OF WELL DATA

	- 						
SHACKELFORD OIL				LYNCH			
OPERATOR				LEASE			
1	660' FSL & 66	60' FWL		SEC-21	T-19-S `	R-32-E	
WELL NO.	FOOTAGE LOCA	ATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED &	ABANDON	ED	-	SPUD DATE:	12/18/41	
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	8-1/4	INCHES	CEMENTED WITH:	50	sx
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
8-1/4"	920'	HOLE SIZE:		UNKNOWN	INCHES		
		2. INTERM	MIDIATE CA	ASING			
		SIZE:	7	INCHES	CEMENTED WITH:	100	sx
7"		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
		HOLE SIZE:		UNKNOWN	INCHES		
		3. LONG	STRING				
7	2696'	SIZE:	UNKNOWN	INCHES	CEMENTED WITH:	· UNKNOWN	sx
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
		HOLE SIZE:		UNKNOWN	INCHES		
		4. TOTAL	DEPTH:	2751	FEET		
		5. PERFO	RATIONS				
				(PERFORATI	FEET TO UN		
					PERFORATED"		
					PERFORATED IN AN ED INTERVALS AND C		
FROM: DOWNS OIL A					ENT OR PLUG(S) US		
1424 PAI HOBBS, N.M. ,					UNKNOWN		
WELLS DRILLED BA	CK IN THE 1940'S		·				
THAT WERE ON FEDE	RAL LAND WERE					FORM C-108 SECTION VI	

NOT REQUIRED TO FURNISH THE OCD

WITH COPIES OF THE PUGGING LOG.

SO ALL THAT IS AVAILABLE IS THE

INFORMATION ON THE SCOUT TICKET.

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

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,56	19			LUSK DEEP UNIT 'A'	21 4 LYNCH	PLANS FEDER	ж х г г						2 •
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. Linn a be a c SED INJECTION WELL DATA SHEET Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. ERATOR: T-19-S R-32-E **SEC-29** 660' FNL & 660' FEL ELL NO FOOTAGE LOCATION SECTION TOWNSHIP RANGE **SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 675 13-3/8 **INCHES** CEMENTED WITH: SIZE: 850 FEET DETERMINED BY: Circulated TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 775 8-5/8 INCHES CEMENTED WITH: SIZE: 4050 Circulated Surface FEET DETERMINED BY: TOC: 11 INCHES 3. LONG STRING 1265 5-1/2 **INCHES** CEMENTED WITH: SIZE: Circulated Surface FEET DETERMINED BY: 7-7/8 INCHES HOLE SIZE: 4. INJECTION INTERVAL 6425 6450 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6360 7200 **PERFS** 5. TOTAL DEPTH: FEET 6425'-6450' 6. TUBING SIZE 7200 LINED WITH: 2-7/8 INCHES **IPC 505 - PLASTIC COATING** SIZE: ARROW SET 1-XS, PKR 6360 SET IN A: PACKER AT: FEET: THER DATA IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: LUSK WEST (DELAWARE) C. NAME THE FIELD OR POOL (IF APPLICABLE) HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. 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

3. BONE SPRING 8200'-8950'

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

WATKINS BONE SPRING LUSK BONE SPRING

S. LUSK BONE SPRING

E. LUSK BONE SPRING

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL FORM C-108
SECTION III
APPLICATION FOR AUTHORIZATION
TO INJECT
Parker & Paraley
Development L.P.
WATER INJECTION WELL

N. LUSK MORROW GAS

PF OSED INJECTION WELL DATA SHEET Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. PERATOR: T-19-S R-32-E 1980' FNL & 1980' FEL SEC-29 VELL NO 10 FOOTAGE LOCATION SECTION TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 675 13-3/8 INCHES CEMENTED WITH: SX SIZE: 850 13-3/8" Circulated FEET DETERMINED BY: Surface TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: SX SIZE: 4050 Circulated TOC: Surface FEET DETERMINED BY: HOLE SIZE: 11 INCHES 3. LONG STRING 5-1/2 INCHES 1265 SX CEMENTED WITH: SIZE: FEET DETERMINED BY: Circulated 7-7/8 HOLE SIZE: 4. INJECTION INTERVAL 6450 6425 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6360 5. TOTAL DEPTH: ______ 7200 FEET PERFS 6425'-6450' 6. TUBING SIZE 7200 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 THER DATA X YES IS THIS A NEW WELL DRILLED FOR INJECTION? NO IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) B. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. 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 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 **FORM C-108** S. LUSK BONE SPRING

E. LUSK BONE SPRING

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

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

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

PR OSED INJECTION WELL DATA SHEET Parker & Parsley LEASE: LUSK DEEP UNIT "A" PERATOR: Development L.P. 330' FSL & 1980' FEL T-19-S R-32-E SEC-20 ELL NO 14 FOOTAGE LOCATION SECTION : TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 1000 SIZE: 13-3/8 INCHES CEMENTED WITH: 13-3/8" Surface FEET DETERMINED BY: Circulated TOC: 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 1700 8-5/8 INCHES CEMENTED WITH: 4500' 8-5/8" Surface FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 12-1/4 INCHES 3. LONG STRING CEMENTED WITH: 5-1/2 INCHES 850 SIZE: SX 2320 FEET DETERMINED BY: Temp. Survey TOC: HOLE SIZE: 7-7/8 INCHES 4. INJECTION INTERVAL 6452 FEET TO: 6459 (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6380 7200 FEET 5. TOTAL DEPTH: PERFS 6452-6459 6. TUBING SIZE 7199 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING SIZE: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6380 FEET: THER DATA IS THIS A NEW WELL DRILLED FOR INJECTION? Х ио YES

AME THE INJECTION FORMATIC	ON: 6400' SAND (BR	RUSHY CANYON)				
AME THE FIELD OR POOL (IF AF	PPLICABLE) LUSK	LUSK WEST (DELAWARE)				
AC YUE MELL EVED DEEN DED	FORATED IN ANY OTHER ZONE/613 LI	IST ALL SUCH PERFORATED INTERVALS A	AID ONE DIVIGOED			
DETAIL, I.E. SACKS OF CEMENT		IST ALL SUCH PERFORATED INTERVALS A	NU GIVE PLUGGED			
		IST ALL SUCH PERFORATED INTERVALS A				
		IST ALL SUCH PERFORATED INTERVALS A	ND GIVE PLUGGED			

7. MORROW 11500'-12000'

W. LUSK DELAWARE

WATKINS BONE SPRING LUSK BONE SPRING

S. LUSK BONE SPRING

E. LUSK BONE SPRING

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL

LUSK DELAWARE

2. DELAWARE 4600'-7100'

3. BONE SPRING 8200'-8950'

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

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

LUSK MORROW GAS

N.W. LUSK MORROW GAS N. LUSK MORROW GAS

SHA	CKELFORD OIL				LYNCH			
OPERA	TOR			· · · · · · · · · · · · · · · · · · ·	LEASE			
	1	660' FSL & 6	360' FWL		SEC-21	T-19-S `	R-32-E	
	WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PLUGGED 8	ABANDON	IED		SPUD DATE:	12/18/41	
	SCHEMATIC		1. SUFAC	CE CASING		TABULAR DATA		
			SIZE:	8-1/4	INCHES	CEMENTED WITH:	50	sx
			TOC:	UNKNOWN	<u> </u>	FEET DETERMINED BY:	UNKNOWN	
8-1/4"		920'	HOLE SIZE:		UNKNOWN	INCHES		
			2. INTERI	MIDIATE CA	ASING			
			SIZE:	7	INCHES	CEMENTED WITH:	100	sx
			TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
			HOLE SIZE:		UNKNOWN	INCHES		
			3. LONG	STRING				
i		2696'	SIZE:	UNKNOWN	INCHES	CEMENTED WITH:	UNKNOWN	sx
		•	TOC:	UNKNOWN	·	FEET DETERMINED BY:	UNKNOWN	
			HOLE SIZE:		UNKNOWN	INCHES		
			4. TOTAL	DEPTH:	2751	FEET		
			5. PERFO	RATIONS	UNKNOWN	EEET TO HIS	KNOWN FEET	
						FEET TO UN ED OR OPEN HOLE; INDIC		
			E HAS TH	IE WELLEY	/ED REEN	PERFORATED" PERFORATED IN AN'	OTHER ZONE(S)?	
	\$21 129					D INTERVALS AND G		
FRO	M: DOWNS OIL AN 1424 PAIG		ETAIL	., I.E. SACK	S OF CEME	ENT OR PLUG(S) USE	D.	
	HOBBS, N.M. ,					UNKNOWN		
WE	ELLS DRILLED BAC	CK IN THE 1940'S			>			
THA	T WERE ON FEDEI	RAL LAND WERE					FORM C-108 SECTION VI	
NOT	REQUIRED TO FU	RNISH THE OCD				. APPLICA	TION FOR AUTHORIZATION TO INJECT	
WITH	COPIES OF THE	PUGGING LOG.					Parker & Parsley Development L.P.	• ·
SO A	ALL THAT IS AVAIL	ABLE IS THE					TER INJECTION WELL	
INFO	RMATION ON THE	SCOUT TICKET.				TABU	LATION OF WELL DATA	

SHAC	KELFORD OIL			PLAINS FE	EDERAL		
OPERAT	TOR			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	O GAS WEI	L	SPUD DATE	:1/4/64	
					TABULAR DATA		
	SCHEMATIC	1. SUFACE	E CASING				
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	827	HOLE SIZE:		17-1/2	INCHES		
		2. INTERM	IIDIATE CA	SING			
	827	SIZE:	10-3/4	INCHES	CEMENTED WITH:	700	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	· · · · · · · · · · · · · · · · · · ·
		HOLE SIZE:		12-1/4	INCHES		
10-3/4*	2662	3. INTERM	IIDIATE CA	SING		•	
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	250	sx
		TOC:	3500		FEET DETERMINED BY:	Temp. Survey	У
		HOLE SIZE:		9-7/8	INCHES		
		4, LONG S	STRING				
8-5/	4540'	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		
	PERFS 11435'-11	6. PERFO	RATIONS				
				11435	FEET TO:		EET
	W414 1142			(FERFORM)	"PERFORAT		
						FORM C-108 SECTION VI	
					APPLICAT	TION FOR AUTHORIZATI	ON
	PERFS 11435'-11	479'				TO INJECT	
	PERFS 11435'-11				P	arker & Parsley	
5-1	11514'					evelopment L.P.	
J -1.	. <u> </u>				WA:	TER INJECTION WELL	

CULBERT	TSON-IRWIN	NINC.			BOWMAN			
OPERATOR					LEASE			
	.1	660' FNL & 66	60' FWL		SEC-28	T-19-S	R-32-E	
V	WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE	
TYP	E OF WELL:	PLUGGED &	ABANDON	ED	_	SPUD DATE	: 2/21/-	42
\$	SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
		10 SXS CMT CUT OFF 8-5/8" CSG 100'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH	i: 50	s>
		100-SURFACE	TOC:	Surface		FEET DETERMINED BY:	Circula	ited
			HOLE SIZE:		11	INCHES		
			2. INTER	MIDIATE C	ASING			
			SIZE:	N/A	INCHES	CEMENTED WITH	t: <u>N/A</u>	S
			TOC:	N/A		FEET DETERMINED BY:	N/A	
	CIBP	10 SXS CMT CIBP @ 800'	HOLE SIZE:	: <u></u>	N/A	INCHES		
8-5/8"	38	908,	3. LONG	STRING				
*		8	SIZE:	5-1/2	INCHES	CEMENTED WITH	i: 100	S
			TOC:	2391		FEET DETERMINED BY:	Temp. St	ırvey
			HOLE SIZE		7-7/8	INCHES		
			4. TOTAL	. DEPTH:	2811	FEET		
			5. PERFO	PRATIONS	2680	· FEET TO:	2955	FEET
						ED OR OPEN HOLE; IND PERFORATED"		_
			LIST A	LL SUCH F	PERFORATE	PERFORATED IN AN ED INTERVALS AND ENT OR PLUG(S) US	GIVE PLUGGED	? NONE
					>~*			
						 		
							FORM C-108 SECTION VI	
		OUT OFF FAMILIES				AP	PLICATION FOR AUTHO	RIZATION
		@ 2200'					Parker & Parsley	
		CMT PLUG @ 2762'-2700'					Development L.P. WATER INJECTION W	
5-1 <i>/2</i>		2762'					TABULATION OF WELL	. DATA

HAC	KELFORD (OIL			BOWMAN				
PERA1	TOR				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	D GAS WE	LL	SPUD DATE:	9/30)/42	
	SCHEMATI	С				TABULAR DATA			
			1. SUFACE	E CASING					
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	50		sx
			TOC:	Surface		FEET DETERMINED BY:	Circul	lated	
			HOLE SIZE:		11	INCHES			
			2. INTERM	IIDIATE CA	SING	-			
		928'	SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	4	sx
			TOC:	N/A		FEET DETERMINED BY:	N/A		
			HOLE SIZE:		N/A	INCHES			
8-5/8"		928'	3. LONG S	STRING					
			SIZE:	5-1/2	INCHES	CEMENTED WITH:	50		sx
			TOC:	2540		FEET DETERMINED BY:	Calcul	ated	
			HOLE SIZE:	· · · · · · · · · · · · · · · · · · ·	7-7/8	INCHES			
			4. TOTAL	DEPTH:	2771	FEET			
			5. PERFOI	RATIONS			·		
					2709	FEET TO:	.2750	FEET	
	, , , , , , , , , , , , , , , , , , , ,				(1 2 1 1 0 10 1 1	"PERFORATE			
	100 May 100 Ma	20							
					ni		FORM C-108 SECTION VI		
		PERFS 2709-2750	,			APPLICATIO	ON FOR AUTHOR TO INJECT	IZATION	
5-	-1/2"	2750'					rker & Parsley velopment L.P.		
						WATE	R INJECTION WE	LL	

Parke	er & Parsley							
Deve	lopment L.P.				PLAINS U	NIT		
OPERA	TOR				LEASE			
	2 WELL NO.		NL & 660' FW	L	SEC-28	T-19-S	R-32-E P RANGE	
	WELL NO.	FOOTAG	E LOCATION		SECTION	TOWNSHII	P KANGE	
	TYPE OF WELL:	PRODU	JCING OIL AN	D GAS WE	LL	SPUD DAT	E: 3/19/63	·
	SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx
			TOC:	Surface		FEET DETERMINED BY	Circulated	
13-3/8"		773'	HOLE SIZE:		17-1/2	INCHES		
			2. INTERN	MIDIATE CA	ASING			
			SIZE:	9-5/8	INCHES	CEMENTED WITH:	4 250	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
			HOLE SIZE:		12-1/4	INCHES		
9-5/8		1597	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. PERFO	RATIONS	11432	FEET TO:	12530 FEET	
						ED OR OPEN HOLE; INI "PERFORA"	DICATE WHICH)	
					8 <u></u> 7		FORM C-108	
						-	SECTION VI	
	994: IN-H	RFS 32'-12530'				APPLICA ⁻	TION FOR AUTHORIZATION TO INJECT	
	7 12	765'					Parker & Parsley evelopment L.P.	

WATER INJECTION WELL

Parker & Parsley Development L.P. OPERATOR

SOUTHERN CALIFORNIA FEDERAL

OPERA	TOR			LEASE				
	11	1980' FNL & 660' FEL	-	SEC-29	T-19-S	R-32-E		
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE		
	TYPE OF WELL:	PRODUCING OIL AN	ID GAS WE	LL	SPUD DATE	: 3/23/62		
	SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA			
13-3/8"		SIZE:	13-3/8	INCHES	CEMENTED WITH:	950	sx	
	826	TOC:	Surface	7	FEET DETERMINED BY:	Circulated		
	826			17-1/2	INCHES			
	826	2. INTERI	2. INTERMIDIATE CASING					
		SIZE:	9	INCHES	CEMENTED WITH:	2725	sx	
		TOC:	Surface		FEET DETERMINED BY:	Circulated		
		HOLE SIZE:		12-1/4	INCHES			
ę	3947	3. LONG	STRING			•		
		SIZE: .	5-1/2	INCHES	CEMENTED WITH:	2140	sx	
		TOC:	2450)	FEET DETERMINED BY:	est. top of cmt sq	Z	
		HOLE SIZE:		7-7/8	INCHES			
	gr 1 3947	4. TOTAL	DEPTH:	12834	FEET			
		5. PERFC	RATIONS	6448	FEET TO:	6458 FEE	न	
					ED OR OPEN HOLE; IND	ICATE WHICH)	••	
	PERFS 6448'-64	458 '			"PERFORAT	EO.		
	PERFS 6448'-64 PBTD CI RET @ 7 W/150 S RET @ 1 W/160 S PERFS 11410'-1	MT @ 6850' '812' XS						
				>_		FORM C-108 SECTION VI		
	RET @ 1 W/160 S							
	PERFS 11410'-1	1430*			APPLICATI	ION FOR AUTHORIZATION TO INJECT	٠	
		·				arker & Parsley		
5	12834'				D€	evelopment L.P.		

WATER INJECTION WELL

Parker & Parsley				~				
Development L.P.				SOUTHERN CALIFORNIA FEDERAL				
OPERATOR			LEASE					
88	990' FNL & 1900' FEL		SEC-29	T-19-S	R-32-E			
WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE			
TYPE OF WELL:	PRODUCING OIL AN	PRODUCING OIL AND GAS WELL		SPUD DATE:	4/16/88			
SCHEMATIC				TABULAR DATA				
	1. SUFAC	E CASING						
	SIZE:	13-3/8	INCHES	CEMENTED WITH:	722	sx		
13-3/8"	TOC:	Surface		FEET DETERMINED BY:	Circulated			
13-3/8" 2 908			17-1/2	INCHES				
	2. INTERN	MIDIATE CA	SING					
	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2700	sx		
	TOC:	Surface		FEET DETERMINED BY:	Circulated			
	HOLE SIZE:		12-1/4	INCHES				
8-5/8" 4504	3. LONG	STRING						
	SIZE:	5-1/2	INCHES	CEMENTED WITH:	800	sx		
8-5/8*	TOC:	2280	1	FEET DETERMINED BY:	Cmt Bond Log	 _		
	HOLE SIZE:		7-7/8	INCHES				
	4. TOTAL	DEPTH:	7200	FEET				
	5. PERFO	RATIONS			0.50	_		
			6446	FEET TO:	6452 FEE	T		
8-5/8* TBG@ 6			(2.0 0.00	"PERFORATE				
			ا الاستان					
	2502		-2.		FORM C-108 SECTION VI			
TBG@ 6				ADDI ICATIO	N FOR AUTHORIZATION	J		
PERFS 6446'-6				AFFLICATIO	TO INJECT	•		

WATER INJECTION WELL

Parker & Parsley Development L.P.

(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	1. SUF	ACE CASING		TABULAR DATA			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	UNKNOWN	sx	
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	·	
		HOLE SIZ	ZE:	UNKNOWN	INCHES			
		2. INTE	2. INTERMIDIATE CASING					
		SIZE:	UNKNOWN	INCHES	CEMENTED WITH:	UNKNOWN	sx	
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN		
		HOLE SIZ	ZE:	UNKNOWN	INCHES			
		3. LON	G STRING					
		SIZE:	UNKNOWN	INCHES	CEMENTED WITH:	UNKNOWN	sx	
		TOC:	UNKNOWN		FEET DETERMINED BY.	UNKNOWN		
		HOLE SI	ZE:	UNKNOWN	INCHES			
		4. TOT.	AL DEPTH:	2820	FEET			
		5. PER	FORATIONS					
		,		UNKNOWN (PERFORAT	FEET TO UN ED OR OPEN HOLE; INDI PERFORATED"			
1					PERFORATED IN AN	• -		
FROM: DOWNS OIL AND RESEARCH 1424 PAIGE HOBBS, N.M. , 88240					ED INTERVALS AND (ENT OR PLUG(S) USI			
					UNKNOWN			
	WELLS DRILLED BACK IN	THE 1940'S						
	THAT WERE ON FEDERAL I	AND WERE				FORM C-108 SECTION VI		
	NOT REQUIRED TO FURNIS	H THE OCD			APPLICA	TION FOR AUTHORIZATION	ı	

WITH COPIES OF THE PUGGING LOG.

SO ALL THAT IS AVAILABLE IS THE

INFORMATION ON THE SCOUT TICKET.

TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

			y 9		+ 1	3 4	2,5	≠ 4-B ≠ 1-	-А
• 1	18	1 → 1	≠ 11	17	1•	\$5 °2 16 ø1	20	1 1 1 5 × 3	8,6 I-A 5-A,6
	% 2			1,0	• 1		2	?-B● ø 2	-A
+ 1	\$ 3	•1		19 17	•1 2		,s /1	+	2
1•	10 1 1		ø3 ●	20 4 20 15	** 6 ** 2 ** 4 ** 4 ** 1	21	• 1	22	, €1
≠ 6	19			LUSK DEEP 21	PLAINS FEDERAL X	-			2 •
	• 1	• 1	≠ 2	SU CAILF FEDERAL 8 SU CAI FEDERA	1 2 30VMAN 30	UMAN	• 1		• 1
•1 •1 •1	30	1 3 1 2	9• 5 6 ▼ €	7 SO CAILF 10 FEDERA 1 SO CAIL FEDERA 1	PLAINS UNIT	28 * ⁵		27 % 1 •4	
1 •	*.	• 1	•1	-4 1 <i>y</i> 1 ₁	2 7				
	⊕¹ 31	1,96	≠ 3	32 •1 •5	<i>∞</i> ′9	33		34	- 1

PROTOSED INJECTION WELL DATA SHEET -Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. PERATOR: R-32-E 1980' FNL & 1980' FEL **SEC-29** T-19-S 10 ELL NO RANGE TOWNSHIP ' SECTION **FOOTAGE LOCATION** SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 675 SX 13-3/8 INCHES CEMENTED WITH: 850 13-3/8" Circulated FEET DETERMINED BY: TOC: Surface 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: 775 SIZE: 4050 8-5/8 Circulated FEET DETERMINED BY: Surface TOC: 11 HOLE SIZE: INCHES 3. LONG STRING 1265 5-1/2 INCHES CEMENTED WITH: SX SIZE: Surface FEET DETERMINED BY: TOC: 7-7/8 HOLE SIZE: INCHES 6450 4. INJECTION INTERVAL 6425 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6360 7200 PERES 5. TOTAL DEPTH: FEET 6425'-6450' 6. TUBING SIZE 7200 IPC 505 - PLASTIC COATING SIZE: 2-7/8 INCHES LINED WITH: ARROW SET 1-XS, PKR SET IN A: PACKER AT: THER DATA X YES IS THIS A NEW WELL DRILLED FOR INJECTION? NO IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. 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. GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: WATKINS YATES 1. YATES 2600'-2800' 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** N.W. LUSK MORROW GAS LUSK DELAWARE N. LUSK MORROW GAS 3. BONE SPRING 8200'-8950' WATKINS BONE SPRING LUSK BONE SPRING FORM C-108 S. LUSK BONE SPRING

E. LUSK BONE SPRING

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

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

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

PRC^OSED INJECTION WELL DATA SHEET Parker & Parslev LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. PERATOR: **SEC-29** 660' FNL & 660' FEL T-19-S R-32-E ELL NO 11 FOOTAGE LOCATION SECTION TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 675 SX INCHES CEMENTED WITH: SIZE: 850 13-3/8" FEET DETERMINED BY: Circulated Surface TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: 775 SIZE: 4050 8-5/8" FEET DETERMINED BY: Circulated Surface TOC: HOLE SIZE: 11 INCHES 3. LONG STRING 1265 5-1/2 INCHES CEMENTED WITH: SX SIZE FEET DETERMINED BY: Circulated 7-7/8 INCHES HOLE SIZE: 4. INJECTION INTERVAL 6425 6450 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6360 5. TOTAL DEPTH: 7200 FEET PERES 6425'-6450' 6. TUBING SIZE 5-1/2" 2-7/8 INCHES IPC 505 - PLASTIC COATING LINED WITH: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET: THER DATA X YES IS THIS A NEW WELL DRILLED FOR INJECTION? NO IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING

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

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL TO INJECT
Parker & Parsley

Development L.P. WATER INJECTION WELL

'OSED INJECTION WELL DATA SHEET

Parker & Parsiey LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. PERATOR: **SEC-29** R-32-E 1980' FEL & 660' FSL T-19-S VELL NO FOOTAGE LOCATION SECTION TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 675 INCHES CEMENTED WITH: SX SIZE: 850 13-3/8" Circulated TOC: FEET DETERMINED BY: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 775 8-5/8 SIZE: INCHES CEMENTED WITH: SX 4050 8-5/8 Circulated FEET DETERMINED BY: Surface TOC: 11 INCHES 3. LONG STRING 1265 SX SIZE: 5-1/2 INCHES CEMENTED WITH: Circulated TOC: Surface FEET DETERMINED BY: 7-7/8 HOLE SIZE: 6450 **4. INJECTION INTERVAL** 6425 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6360 7200 PERES 5. TOTAL DEPTH: FEET 6425'-6450' 6. TUBING SIZE 7200 SIZE: 2-7/8 INCHES LINED WITH: **IPC 505 - PLASTIC COATING** ARROW SET 1-XS, PKR SET IN A: PACKER AT: 6360 OTHER DATA IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: B. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. 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 GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 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 **FORM C-108** SECTION III S. LUSK BONE SPRING APPLICATION FOR AUTHORIZATION E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P.

E. LUSK WOLFCAMP OIL

S LUSK WOLFCAMP OIL

WATER INJECTION WELL

PRCTOSED INJECTION WELL DATA SHEET

ERATOF		er & Parsley elopment L.P.			LEASE:	LUSK DEEP UNIT "A"			····
LL NO	14	330' FSL &	1980' FEL		SEC-20	T-19-S	R	-32-E	
	CHEMATIC	FOOTAGE LO			SECTION	TOWNSHIP	R	ANGE	
			1. SUFACI	F CASING		WELL CONSTRUCTION	ON DATA		
					INCHES	CEMENTED WITH:		1000	\$X
-3/8"		843'	TOC:	Surface		FEET DETERMINED BY:			
						INCHES			
				IIDIATE CA					
				8-5/8		CEMENTED WITH:		1700	SX
8-5/8"			TOC:	Surface		FEET DETERMINED BY:	C	irculated	
			HOLE SIZE:		12-1/4	INCHES			
			3. LONG S	STRING					
	X		SIZE:	5-1/2	INCHES	CEMENTED WITH:		850	sx
			TOC:	2320		FEET DETERMINED BY:	Ter	np. Survey	
			HOLE SIZE:		7-7/8	INCHES			
			4. INJECT	ION INTER		6452 FEET TO:		459 FEET	
	⊠ ⊠ PK 63	KR @ 80'				ERFORATED"	CATE WHICH)		
		RFS	5. TOTAL	DEPTH:		7200 FEET			
		52-6459	6. TUBING	SIZE					
5-1/2		99'	SIZE:	2-7/8	INCHES	LINED WITH:	IPC 505 - PI	ASTIC COATING	
	ŧ		SET IN A:	ARROW S	SET 1-XS,	PKRPACKER AT:	6	380 FEET:	
	*								
HER DA	ATA 	-							
A. 1	IS THIS A NEW WE	LL DRILLED FOR IN	JECTION?		YES	X NO			
1	IF NO, FOR WHAT	PURPOSE WAS THE	E WELL ORIG	INALLY DRIL	LED?	PRODUCII	NG OIL AND	GAS WELL	
В.	NAME THE INJECT	ION FORMATION		6400' SAN	JD (BRUSH	IY CANYON)			
		OR POOL (IF APPLIC				ST (DELAWARE)			
	Y	·				LL SUCH PERFORATED INT	FRVALS AND	GIVE PLUGGED	
		S OF CEMENT OR I			NO				
E.	GIVE THE NAME(S	i) AND DEPTH(S) OF	ANY OVER	OR UNDERLY	ING OIL OR (GAS ZONES IN THIS AREA:			
	1. YATES 2600		WATKINS		•	5. STRAWN 11000'-1		LUSK STRAWN OIL	
•			N.E. LUS S. LUSK		-	6. ATOKA 11200'-11		LUSK ATOKA GAS	
	2. DELAWARE	4600'-7100'	W. LUSK	DELAWAR	E	7. MORROW 11500'-		LUSK MORROW G	
•			LUSK DE		-			N.W. LUSK MORRO N. LUSK MORROW	OW GAS
,	3. BONE SPRIM	NG 8200'-8950'		BONE SP		_		EOPM C 108	

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

Pr POSED INJECTION WELL DATA SHEET

OPERATOR:	Parker & Parsle Development L.	•	-	LEASE:	S. A. BOW	MAN FEDERAL		
WELL NO	5 2310' FS							
SCHEMA		LOCATION		SECTION	ו	FOWNSHIP	RANGE	
		1. SUFAC	E CASING		WELL CON	STRUCTION DAT	·A	
		SIZE:	11-3/4	INCHES	CEMENT	ED WITH:	1000	sx
11-3/4"	895'	TOC:	Surface		FEET DETERM	MINED BY:	Circulated	
		HOLE SIZE:		14-3/4		NCHES		
		2. INTERN	MIDIATE CA	ASING				
8-5/8"	3796'	SIZE:	8-5/8	INCHES	CEMENT	ED WITH:	1400	sx
		TOC:	Surface		FEET DETER	MINED BY:	Circulated	
		HOLE SIZE:		11	ا	NCHES !		
		3. LONG S	STRING			¥ £		
		SIZE:	5-1/2	INCHES	CEMENT	ED WITH:	1610	sx
		TOC:	Surface		FEET DETER	MINED BY:	Circulated	
		HOLE SIZE:		7-7/8		NCHES		
		4. INJECT	ION INTER			FEET TO:	·····	
×	⊠ PKR @ 6360'			-	ERFORATE	•	,	
L	PERFS 6431'-6446'	5. TOTAL	DEPTH:		6850	FEET		
		6. TUBING	SIZE					
5-1/2"	. 6850'	SIZE:	2-7/8	INCHES	LINED WITH:	IPC 50	5 - PLASTIC COATING	
		SET IN A:	ARROWS	SET 1-XS,	PKR	PACKER AT:	6360 FEET:	
OTHER DATA								
A. IS THIS A	NEW WELL DRILLED FOR	INJECTION?		YES	X	NO		
IF NO, FC	OR WHAT PURPOSE WAS 1	HE WELL ORIG	SINALLY DRIL	- LED?		PRODUCING OIL	AND GAS WELL	
B. NAME TH	IE INJECTION FORMATION		6400' SAN	ND (BRUSH	IY CANYON)		
C. NAME TH	HE FIELD OR POOL (IF APP	LICABLE)		LUSK WE	ST (DELAW	ARE)		
D. HAS THE	WELL EVER BEEN PERFO	RATED IN ANY	OTHER ZON	E(S)? LIST AI	LL SUCH PERF	ORATED INTERVALS	AND GIVE PLUGGED	
DETAIL,	I.E. SACKS OF CEMENT OF	R PLUG(S) USE	D.	NONE				
,			······································					
	E NAME(S) AND DEPTH(S)			'ING OIL OR (
1. YAR	ES 2600'-2800'	N.E. LUS	K YATES	-		N 11000'-11200'	LUSK STRAWN OIL	
		S. LUSK	T		6. ATOKA	11200'-11400'	LUSK ATOKA GAS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2. DEL	AWARE 4600'-7100'		DELAWAR LAWARE	<u>.</u>	7. MORRO	W 11500'-12000'	N.W. LUSK MORROW	
3. BON	E SPRING 8200'-8950	WATKINS	S BONE SP	RING			N. LUSK MORROW	GAS
		LUSK BO	NE SPRIN	G	-		FORM C-108	
			BONE SPR			Al	SECTION III PPLICATION FOR AUTHORIZ TO INJECT	ATION
4 WOI	F CAMP 10100'-1070		OLFCAMP (Parker & Parsley Development L.P.	
		E. LUSK	WOLFCAM WOLFCAM	ĪP OIL			WATER INJECTION WELI	L

ERAT	roR:	Parker & Park Development		t	LEASE:	SOUTHERN CAILFO	RNIA FEDERAL	
LL	4	1650'	FSL & 990' FEL	;	SEC-29	T-19-S	R-32-E	
			GE LOCATION	5	SECTION	TOWNSHIP	RANGE	
	SCHEMAT		1. SUFACE C	ASING		WELL CONSTRUCT	ION DATA	
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	775	sx
3-3/8"		877'	тос: Su	rface		FEET DETERMINED BY:	Circulated	
			HOLE SIZE:		17-1/2	INCHES		
			2. INTERMIDIA	ATE CAS	SING		٠	
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	2660	sx
8-5/8		3836	тос: Su	rface		FEET DETERMINED BY:	Circulated	
			HOLE SIZE:		12-1/4	INCHES	·	
			3. LONG STR	ING				
			SIZE:	4-1/2	INCHES	CEMENTED WITH:	600	8X
			TOC:	3400		FEET DETERMINED BY:	SQZ HOLE @ 3400' W/35	SXS CMT
		DVD @	HOLE SIZE:		7-7/8	INCHES		
		PKR @ 6360' PROPOSED DELAWARE PERFS @	4. INJECTION		(PERFORAT	6430 FEET TO: ED OR OPEN HOLE; IND ERFORATED"	6450 FEET	
	CH		5. TOTAL DE	PTH:		11449 FEET		
		PERFS	6. TUBING SI	ZE				•
		CIBP @ 6600' PERFS 11324'-11368'	SIZE:	2-7/8	INCHES .	LINED WITH:	IPC 505 - PLASTIC C	OATING
4	1-1/2"	11410	SET IN A: AR	ROW SI	ET 1-XS,	PKR PACKER A	r: 6360 FEET:	
HED	DATA							
A.		IEW WELL DRILLED F	OR INJECTION?		YES	XNO		
	IF NO, FOR	WHAT PURPOSE W	AS THE WELL ORIGIN	IALLY DRI	LLED?	PRODUC	ING OIL AND GAS W	ELL
В.	NAME THE	INJECTION FORMAT	ION: 64	00' SANI	D (BRUSH	IY CANYON)		
C.	NAME THE	FIELD OR POOL (IF	APPLICABLE)		LUSK WE	ST (DELAWARE)		
D.			RFORATED IN ANY O' T OR PLUG(S) USED.		NE(S)? LIST NO		INTERVALS AND GIVE PL	UGGED ROM STRAWN PERFS
	11324'-11	1368'. PLAN TO S	ET CIBP @ 6600'	W/5SXS	CMT ON	TOP & PERF DELAW	/ARE @ 6430'-50' COI	NVERT TO WIW WELL.
E.	GIVE THE I	NAME(S) AND DEPTH	(S) OF ANY OVER OF	UNDERL	YING OIL O	R GAS ZONES IN THIS AR	, EA:	
	1. YATES	3 2600'-2800'	WATKINS YA			5. STRAWN 11000'	-112 LUSK STRAWN	OIL
			N.E. LUSK YAT		•	6. ATOKA 11200'-1	140 LUSK ATOKA GA	\s
	2. DELAV	WARE 4600'-710)' W. LUSK DEI	_AWARE	• •	7. MORROW 11500	D'-12 LUSK MORROW	GAS
			LUSK DELAV	VARE	•		N.W. LUSK MOR	ROW GAS
	3. BONE	SPRING 8200'-8	950' WATKINS BO					
			LUSK BONE S. LUSK BON				FORM C-10 SECTION I	
			E. LUSK BON			 -	APPLICATION FOR AUTO INJECT	THORIZATION
	4 WOLF	CAMP 10100'-10	70 LUSK WOLF	CAMP O			Parker & Park	iley
	-T. TYOLF	37 dell	E. LUSK WOLF		_		Development WATER INJECTIO	
			S. LUSK WO	LFCAME	OIL			

				_	11666 DA	17 31 ILL 1	٠.			
	r & Par opment	-				SOUTHER	N CALIFORNIA FEDE	241		
OPERAT						LEASE	TOALII ORRIAT EDE	V-L		
J. 231.										
		2	990' FNL & 9			SEC-29	T-19-S	R-32-E	···	
	WELL	NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE		
	TYPE OF	WELL: _	PLUGGED 8	ABANDON	ED	_	SPUD DATE:	3/15/63		
	SCHE	EMATIC		1. SUFAC	E CASING		TABULAR DATA			
			10 SXS CMT @ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	900)	sx
			25 SXS CMT	TOC:	Surface		FEET DETERMINED BY:	Circulate	d	
13-3/8"			@ 700'-800' 827'	HOLE SIZE:	 	17-1/2	INCHES			
				2. INTERI	MIDIATE CA	ASING				
			25 SXS CMT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2500)	sx
			@ 2400'-2500'	TOC:	Surface		FEET DETERMINED BY:	Circulate	<u>d</u>	
				HOLE SIZE:		11	INCHES			
8-5/8			4490'	3. LONG	STRING					
<i>5</i> -3/6			35 SXS CMT @ 4497'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300)	<u>sx</u>
			25 SXS CMT	TOC:	10100)	FEET DETERMINED BY:	Temp. Si	urvey	
			4-1/2" STUB @ 6497"	HOLE SIZE:		7-7/8	INCHES			
		ANIANI ANIANA		4. TOTAL	DEPTH:	11406	FEET			
				5. PERFC	RATIONS					
_		18	%			11330	FEET TO:	11340	FEET	
	7942	\checkmark	-	-		(= t. 0 - t + t + t + t + t + t + t + t + t + t	PERFORATED"			
							PERFORATED IN AN			
	A i						D INTERVALS AND G ENT OR PLUG(S) USE		NONE	
	/					z_*				
	/									
	20		8							

25 SXS CMT

11330'-11340'

PERFS

11406

4-1/2"

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

Parker &	Pars	ey
Developn	nent l	L.F
2000		

SOUTHERN CALIFORNIA FEDERAL

UPERA	IOR				LEAGE			
	8	990'	FNL & 1900' FEL	·	SEC-29	T-19-S	R-32-E	
	WELL NO.	FOOT	AGE LOCATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PRO	DUCING OIL AN	D GAS WE	<u>LL</u>	SPUD DATE:	4/16/88	3
	SCHEMATIC	3183	1. SUFAC	E CASING		TABULAR DATA		
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	722	sx
40 440		908'	TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
13-3/8"		908'	HOLE SIZE:		17-1/2	INCHES		
			2. INTERN	MIDIATE CA	ASING			
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	2700	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
			HOLE SIZE:		12-1/4	INCHES		
8-5/8		4504 '	3. LONG	STRING				
			SIZE:	5-1/2	INCHES	CEMENTED WITH:	800	sx
			TOC:	2280)	FEET DETERMINED BY:	Cmt Bond I	Log
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	DEPTH:	7200	FEET		
			5. PERFO	RATIONS	6446	FEET TO	6452	FEET
						ED OR OPEN HOLE; INDI	CATE WHICH)	
						FERFORM	_0	
					المناه			
		TBG@ 6503'					FORM C-108 SECTION VI	
		PERFS 6446'-6452'				APPLICATION	ON FOR AUTHORIZA TO INJECT	TION
5	-1/2"	7192					rker & Parsley velopment L.P.	•
						WATE	R INJECTION WELL	

Parker & Parsiey Development L.P. OPERATOR 1 1980' FN WELL NO. FOOTAGE TYPE OF WELL: PRODU SCHEMATIC 13-3/8" 826'

3947

PERFS 6448'-6458'

PBTD CMT @ 6850' RET @ 7812' W/150 SXS

RET @ 11292' W/160 SXS

11410'-11430'

PERFS

12834

SOUTHERN CALIFORNIA FEDERAL

1980' FNL	& 660' FEL		SEC-29	T-19-S	R-32-E	
FOOTAGE L	OCATION		SECTION	TOWNSHIP	RANGE	
PRODUCI	NG OIL AN	D GAS WE	LL	SPUD DATE:	3/23/62	
						
	1. SUFAC	E CASING		TABULAR DATA		
	SIZE:	13-3/8	INCHES	CEMENTED WITH:	950	sx
	TOC:	Surface		FEET DETERMINED BY:	Circulated	
	HOLE SIZE:		17-1/2	INCHES		
	2. INTERM	IIDIATE CA	SING			
	SIZE:	9	INCHES	CEMENTED WITH:	2725	sx
	TOC:	Surface		FEET DETERMINED BY:	Circulated	
	HOLE SIZE:		12-1/4	INCHES		
	3. LONG S	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. PERFO	RATIONS	6440		C450 5555	
			6448 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDIC	6458 FEET	
				"PERFORATE		
) '						
@ 6850' 2'						
•			»·		FORM C-108	
192'					SECTION VI	

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

PERFS

12765'

11432'-12530'

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERA	TOR			LEASE			
	7 WELL NO.	2210' FNL & 2260' FV	VL.	SEC-29	T-19-S	R-32-E	
	TYPE OF WELL:	PRODUCING OIL AN	ID GAS WE	LL	SPUD DATE:	3/24/88	
	SCHEMATIC ESSESS	1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	735	sx
	90	TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"		3' HOLE SIZE:		17-1/2	INCHES		
		2. INTERI	MIDIATE C	ASING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	2450	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		12-1/4	INCHES		
8-5/8	4500	3. LONG	STRING				
	4500	SIZE:	5-1/2	INCHES	CEMENTED WITH:	600	sx
		TOC:	4000)	FEET DETERMINED BY:	Cmt Bond Lo	g
		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	7204	FEET		
		5. PERFO	RATIONS	0.400			
				6429 (PERFORATE	FEET TO:		EET
					"PERFORATI	ĒĎ	
				<u>~</u> .		FORM C-108	
	твс@	s500'				SECTION VI	
	TBG@ 6429'-6			•	APPLICATION	ON FOR AUTHORIZATION TO INJECT	ON
5-	7204					rker & Parsley velopment L.P.	

WATER INJECTION WELL

5. PERFORATIONS

PERFS

7199

6426'-6444'

6426 FEET TO:

(PERFORATED OR OPEN HOLE: INDICATE WHICH) "PERFORATED"

TBG@ 6383'

APPLICATION FOR AUTHORIZATION TO INJECT

FORM C-108 SECTION VI

Parker & Parsley Development L.P.

WATER INJECTION WELL

KINCAID & WATSON OPERATOR	DRILLING CO	•		SA BOWM	AN FEDERAL		
MELL NO.	330' FSL &			SEC-29 SECTION	T-19-S TOWNSHIP	R-32-E RANGE	
	PLUGGED		IED	-	SPUD DATE:	• • •	/57
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
	10 SXS CMT @ SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	500	sx
		TOC:	Surface		FEET DETERMINED BY:	Circula	ated
		HOLE SIZE	:	11	INCHES		
		2. INTER	MIDIATE CA	SING			
		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				
8-5/8"	880'	SIZE:	5-1/2	INCHES	CEMENTED WITH	600	sx
		TOC:	250		FEET DETERMINED BY:	Temp. S	urvey
		HOLE SIZE	:	7-7/8	INCHES		
		4. TOTAL	DEPTH:	2770	FEET	-	
		5. PERF	DRATIONS	0.400		2567	
				2493 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDI PERFORATED"	2567 CATE WHICH)	FEET
		LIST A	LL SUCH P	ERFORATE	PERFORATED IN AN ED INTERVALS AND (ENT OR PLUG(S) US	SIVE PLUGGED)? NONE
	CMT PLUG @ 2500'-2690'						
				الي د			
						FORM C-108 SECTION VI	
					APF	PLICATION FOR AUTHO	RIZATION
	٠.	•				Parker & Parsley Development L.P	
						WATER INJECTION V	VELL
5-1/2"	2720'	,				TABULATION OF WELL	_ DATA

Development L.P.				SOUTHERN	N CALIFORNIA FEDE	RAL	
OPERATOR				LEASE			
3	1980' FSL & 1	980' FWL		SEC-29	T-19-S		
WELL NO.	FOOTAGE LOCA	TION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED &	ABANDON	ED	-	SPUD DATE:	10/24/63	
SCHEMATIC		1. SUFAC	E CASING	:	TABULAR DATA		
	96' CMT @ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	600	sx
	75 SXS CMT @ 711'-811'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	@ 711'-811' @ 899'	HOLE SIZE:		17-1/2	INCHES		
	SIDE TRACKED ON RE-ENTRY	2. INTERM	MIDIATE CA	ASING			
	@ 2100'-2373'	SIZE:	8-5/8	INCHES	CEMENTED WITH:	1700	sx
	150 SXS CMT @ 2175'-2304'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		11	INCHES		
	25 SXS CMT @ 4490'	3. LONG	STRING				
8-5/8"	4604'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	sx
25 S	I/2" STUB XS CMT	TOC:	10100	i	FEET DETERMINED BY:	Temp. Survey	
@ 4	700	HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	11406	FEET		
		5. PERFO	RATIONS	11330	· FEET TO:	11340 FEET	
				(PERFORATE	D OR OPEN HOLE; INDIC		
		LIST A	LL SUCH P	VER BEEN FERFORATE			
					· · · · · · · · · · · · · · · · · · ·		
				<u> </u>			
25 PI 11				· · · · · · · · · · · · · · · · · · ·		FORM C-108 SECTION VI	
					APPLICA	ATION FOR AUTHORIZATION TO INJECT	
25 PI	SXS CMT ERFS					Parker & Parsley Development L.P.	
9 PI	330'-11340'				WA	TER INJECTION WELL	
					TABL	JLATION OF WELL DATA	

		∦ 9	→ 1	2 % %4-B %1-A
130	→ 1 → 1	17	16 +2	3-B 1 15 3-A 1-B 5-A
	% 2	1,00	•1	2-B • Ø2-A
+ 1	• 3	19 ● 17 ▼	•1 🔻2	★ 1
10 10 10 10 10 10 10 10 10 10 10 10 10 1	•1 •2 •5	20 4 20 4 20 4 20 4 20	21 32 4 1 3 4 1 3	22
		V 14	, J.	
•1 30 •1	1	SO CAILF SO	PLAINS UNIT X 28	•1 •1 27
*** 31	1,00	1	33	34

PTYPOSED INJECTION WELL DATA SHEET.

Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. PERATOR: R-32-E **SEC-29** T-19-S 1650' FSL & 990' FEL VELL SECTION TOWNSHIP RANGE **FOOTAGE LOCATION** SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 775 13-3/8 SX INCHES SIZE: CEMENTED WITH: 877 13-3/8" FEET DETERMINED BY: Circulated TOC: Surface ___17-1/2 INCHES 2. INTERMIDIATE CASING 8-5/8 SIZE: INCHES CEMENTED WITH: SX 3836 FEET DETERMINED BY: Circulated TOC: 12-1/4 INCHES HOLE SIZE: 3. LONG STRING 4-1/2 INCHES 600 CEMENTED WITH: SX SIZE TOC: 3400 FEET DETERMINED BY: SQZ HOLE @ 3400' W/35 SXS CMT 7-7/8 HOLE SIZE: INCHES PKR@ 6360 4. INJECTION INTERVAL 6430 6450 FEET TO: PROPOSED (PERFORATED OR OPEN HOLE; INDICATE WHICH) DELAWARE "PERFORATED" PERFS@ PROPOSED CIBP 5. TOTAL DEPTH: 11449 FEET CIBP @ 6600 6. TUBING SIZE PERFS 11324'-11368' IPC 505 - PLASTIC COATING 2-7/8 INCHES LINED WITH: 11410 SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 4-1/2" FEET: OTHER DATA X : NO IS THIS A NEW, WELL DRILLED FOR INJECTION?

YES PRODUCING OIL AND GAS WELL IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. 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. CURRENT OIL AND GAS PODUCTION FROM STRAWN PERFS NO 11324'-11368'. PLAN TO SET CIBP @ 6600' W/5SXS CMT ON TOP & PERF DELAWARE @ 6430'-50' CONVERT TO WIW WELL. 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-1070 LUSK WOLFCAMP OIL Development L.P WATER INJECTION WELL

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL

PTOPOSED INJECTION WELL DATA SHEET

Parker & Parsley LEASE: S. A. BOWMAN FEDERAL Development L.P. OPERATOR: R-32-E 2310' FSL & 2160' FWL **SEC-29** T-19-S WELL NO RANGE **FOOTAGE LOCATION** SECTION **TOWNSHIP** SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 11-3/4 INCHES CEMENTED WITH: SX SIZE 11-3/4" 895 Surface FEET DETERMINED BY: Circulated TOC: 14-3/4 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 1400 8-5/8 INCHES CEMENTED WITH: SIZE: SX 3796 Circulated TOC: Surface FEET DETERMINED BY: HOLE SIZE: 11 3. LONG STRING 5-1/2 INCHES CEMENTED WITH: 1610 SIZE: SX Surface FEET DETERMINED BY: Circulated 7-7/8 HOLE SIZE: INCHES 4. INJECTION INTERVAL 6446 6431 FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6360 PERFS 5. TOTAL DEPTH: 6850 6431'-6446' 6. TUBING SIZE 5-1/2" LINED WITH: IPC 505 - PLASTIC COATING 2-7/8 INCHES SET IN A: ARROW SET 1-XS, PKR 6360 PACKER AT: FEET: OTHER DATA X 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 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: В. LUSK WEST (DELAWARE) C. NAME THE FIELD OR POOL (IF APPLICABLE) 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 GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 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 **FORM C-108** SECTION III S. LUSK BONE SPRING **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P. **WATER INJECTION WELL** E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

TOPOSED INJECTION WELL DATA SHEFT Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. OPERATOR: 1980' FEL & 660' FSL T-19-S R-32-E **SEC-29** 12 WELL NO RANGE **FOOTAGE LOCATION** SECTION **TOWNSHIP** SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 675 13-3/8 INCHES CEMENTED WITH: SX SIZE: 850 13-3/8" FEET DETERMINED BY: Circulated TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 775 8-5/8 INCHES CEMENTED WITH: SX 4050 R-5/8 Circulated Surface FEET DETERMINED BY: TOC: 11 HOLE SIZE: INCHES 3. LONG STRING 1265 SIZE: 5-1/2 INCHES CEMENTED WITH: SX Surface Circulated TOC: FEET DETERMINED BY: 7-7/8 HOLE SIZE: INCHES 4. INJECTION INTERVAL 6425 FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6360 7200 5. TOTAL DEPTH: PERES FEET 6425'-6450' 6. TUBING SIZE 7200 SIZE: 2-7/8 INCHES LINED WITH: **IPC 505 - PLASTIC COATING** PACKER AT: 6360 SET IN A: ARROW SET 1-XS, PKR FEET: OTHER DATA IS THIS A NEW WELL DRILLED FOR INJECTION? X YES NO IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? N/A 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: В. LUSK WEST (DELAWARE) NAME THE FIELD OR POOL (IF APPLICABLE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 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 **FORM C-108** SECTION III S. LUSK BONE SPRING * APPLICATION FOR AUTHORIZATION E. LUSK BONE SPRING TO INJECT

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

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

Parker & Parsley Development L.P. **WATER INJECTION WELL TABULATION OF WELL DATA**

PPOPOSED INJECTION WELL DATA SHEET.

Parker & Parsley PERATOR: Development L.P. LEASE: SOUTHERN CAILFORNIA FEDERAL T-19-S **SEC-29** R-32-E 1980' FNL & 1980' FEL VELL NO 10 **FOOTAGE LOCATION** SECTION TOWNSHIP ' RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 675 INCHES CEMENTED WITH: SX SIZE: 850 13-3/8" FEET DETERMINED BY: Circulated Surface TOC: 17-1/2 HOLE SIZE: 2. INTERMIDIATE CASING CEMENTED WITH: 775 SIZE: 8-5/8 INCHES 4050 8-5/8 Circulated FEET DETERMINED BY: TOC: Surface 11 HOLE SIZE: 3. LONG STRING SIZE: 5-1/2 INCHES CEMENTED WITH: 1265 SX Circulated Surface TOC: FEET DETERMINED BY: 7-7/8 HOLE SIZE: 4. INJECTION INTERVAL 6450 6425 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6360 7200 FEET **PERFS** 5. TOTAL DEPTH: 6425'-6450' 6. TUBING SIZE 5-1/2 LINED WITH: IPC 505 - PLASTIC COATING 2-7/8 INCHES SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET: OTHER DATA X YES IS THIS A NEW WELL DRILLED FOR INJECTION? NO N/A IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: B. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P E. LUSK WOLFCAMP OIL **WATER INJECTION WELL**

S. LUSK WOLFCAMP OIL

WELL DATA SHEET Parker & Parsley Development L.P. SOUTHERN CALIFORNIA FEDERAL OPERATOR SEC-29 1980' FNL & 660' FEL R-32-E T-19-S FOOTAGE LOCATION SECTION TOWNSHIP RANGE PRODUCING OIL AND GAS WELL 3/23/62 SPUD DATE: TYPE OF WELL: TABULAR DATA SCHEMATIC 1. SUFACE CASING SIZE: 13-3/8 INCHES CEMENTED WITH: 950 SX Surface FEET DETERMINED BY: Circulated TOC: 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING SIZE: 9 INCHES CEMENTED WITH: 2725 SX Circulated Surface FEET DETERMINED BY: TOC: HOLE SIZE: 12-1/4 INCHES 3. LONG STRING 5-1/2 INCHES CEMENTED WITH: 2450 FEET DETERMINED BY: est. top of cmt sqz. TOC: HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 12834 FEET 5. PERFORATIONS 6448 FEET TO: 6458 (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED" PERFS 6448'-6458' PBTD CMT @ 6850' RET @ 7812' W/150 SXS **FORM C-108** SECTION VI RET @ 11292'

W/160 SXS

12834

11410'-11430'

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

	. = . .ms		WELL DA	IA SHEET	-		
Parker & Parsley							
Development L.P.	 				N CALIFORNIA FEDE	RAL	·
OPERATOR				LEASE			
3	1980' FSL & 1	980' FWL		SEC-29	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOCA	TION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED &	ABANDON	ED	_	SPUD DATE:	10/24/63	
SCHEMATIC					TABULAR DATA		
	on on war	1. SUFAC	E CASING				
	96' CMT @ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	600	sx
	75 SXS CMT @ 711'-811'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	899.	HOLE SIZE:	+	17-1/2	INCHES		
	SIDE TRACKED ON RE-ENTRY	2. INTERM	MIDIATE CA	ASING			
	@ 2100'-2373'	SIZE:	8-5/8	INCHES	CEMENTED WITH:	1700	\$x
	150 SXS CMT @ 2175'-2304'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		11	INCHES		
	25 SXS CMT @ 4490'	3. LONG	STRING				
8-5/8"	4604'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	sx
	4-1/2" STUB					~ ^	
	25 SXS CMT @ 4700'	TOC:	10100		FEET DETERMINED BY:	Temp. Survey	
		HOLE SIZE:		7-7/8	INCHES		
	•	4. TOTAL	DEPTH:	11406	FEET		
	_	5. PERFO	RATIONS				
				11330 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDI PERFORATED"	11340 FEET CATE WHICH)	
533	: : : : : : : : :	LIST A	LL SUCH P	ERFORATE			
				-			
						FORM C-108	
						SECTION VI	
4-1/2"					APPLICA	ATION FOR AUTHORIZATION TO INJECT	
	25 SXS CMT					Parker & Parsley	
XII	PERFS 11330'-11340'				w	Development L.P. ATER INJECTION WELL	-
4-1/2"	11406'				TABI	ULATION OF WELL DATA	

TIELL DATA SHEET Parker & Parsley Development L.P. SOUTHERN CALIFORNIA FEDERAL OPERATOR SEC-29 T-19-S R-32-E 1980' FSL & 1980' FEL FOOTAGE LOCATION SECTION TOWNSHIP RANGE WELL NO. TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: 12/5/87 SCHEMATIC TABULAR DATA 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 735 SIZE: FEET DETERMINED BY: Circulated Surface TOC: 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 2350 SIZE: 8-5/8 INCHES CEMENTED WITH: Surface FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 12-1/4 INCHES 8-5/8" 3. LONG STRING 5-1/2 ____ INCHES CEMENTED WITH: 4210 FEET DETERMINED BY: Cmt Bond Log HOLE SIZE: 7-7/8 INCHES **4. TOTAL DEPTH:** 7200 5. PERFORATIONS FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED"

TBG@ 6383'

6426'-6444'

PERFS

FORM C-108 SECTION VI

SX

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

Parker & Parsley

Development L.P.

SOUTHERN CALIFORNIA FEDERAL

OPERATOR SEC-29 T-19-S R-32-E 2210' FNL & 2260' FWL FOOTAGE LOCATION SECTION RANGE WELL NO. TOWNSHIP TYPE OF WELL: PRODUCING OIL AND GAS WELL 3/24/88 SPUD DATE: SCHEMATIC TABULAR DATA 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 735 sx SIZE: тос: Surface FEET DETERMINED BY: Circulated 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: 2450 SIZE: Surface FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 12-1/4 INCHES 4500 8-5/8" 3. LONG STRING SIZE: 5-1/2 INCHES CEMENTED WITH: 4000 FEET DETERMINED BY: Cmt Bond Log TOC: HOLE SIZE: 7-7/8 INCHES **4. TOTAL DEPTH:** 7204 FEET 5. PERFORATIONS 6442 FEET 6429 FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED" **FORM C-108** SECTION VI TBG@ 6500' APPLICATION FOR AUTHORIZATION TO INJECT 6429'-6442' Parker & Parsley

WATER INJECTION WELL

Development L.P.

Deve	elopment L.P.			PLAINS UI	NIT			
OPERA	TOR			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 WEL	L	SPUD DATE:	3/1	9/63	
	SCHEMATIC				TABULAR DATA			
		1. SUFACE	CASING					
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	75	0	sx
13-3/8"	77:	_	Surface		FEET DETERMINED BY:	Circu	ulated	
13-3/0		HOLE SIZE: _		17-1/2	INCHES			
		2. INTERMI	DIATE CAS	SING				
		SIZE:	9-5/8	INCHES	CEMENTED WITH:	429	50	sx
		тос:	Surface	·	FEET DETERMINED BY:	, Circu	ulated	-
	4597	HOLE SIZE:		12-1/4	INCHES			
9-5/8	4597	3. LONG ST	RING					
	4597	SIZE:	7	INCHES	CEMENTED WITH:	75	0	sx
		TOC:	4490		FEET DETERMINED BY:	Temp.	Survey	
		HOLE SIZE:		7-7/8	INCHES			
		4. TOTAL D	EPTH:	12996	FEET			
		5. PERFOR	ATIONS					
			-	11432	FEET TO:	12530	FEET	
			'	(PERFORM II	"PERFORATE			
				>_*				
	PERFS 11432'-					FORM C-108 SECTION VI		
	PERFS 11432-				APPLICATION	ON FOR AUTHOR	RIZATION	
	11432'-	12530'				TO INJECT		
						rker & Parsley		
	7" 🝱 🖺 12765'				Dev	elopment L.P	•	

Parker & Parsley

WATER INJECTION WELL

5-1/2"

PLAINS UNIT FEDERAL

OPERATOR LEASE SEC-28 T-19-S R-32-E 1980' FSL & 760' FWL FOOTAGE LOCATION SECTION RANGE WELL NO. TOWNSHIP PRODUCING OIL AND GAS WELL 12/4/81 TYPE OF WELL: SPUD DATE: TABULAR DATA SCHEMATIC 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 750 sx SIZE: Surface FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 17-1/2 INCHES 13-3/8" 2. INTERMIDIATE CASING 700 sx SIZE: 8-5/8 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 12-1/4 INCHES 8-5/8" 3. INTERMIDIATE CASING 250 sx 7 INCHES CEMENTED WITH: SIZE: 8796 FEET DETERMINED BY: Temp. Survey HOLE SIZE: 8-1/2 INCHES 4. LONG STRING SIZE: 5-1/2 INCHES CEMENTED WITH: 250____sx 10714 FEET DETERMINED BY: Calculated TOC: HOLE SIZE: 7-7/8 INCHES **5. TOTAL DEPTH:** 11485 FEET 6. PERFORATIONS 11390 FEET TO: 11480 (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED" **FORM C-108** SECTION VI **APPLICATION FOR AUTHORIZATION PERFS** TO INJECT 11390'-11480' Parker & Parsley Development L.P.

WATER INJECTION WELL TABULATION OF WELL DATA

AN AMERICAN PE	T. CORP.			PLAINS UNIT					
PERATOR		-		LEASE					
3	1980' FSL 8	& 660' FWL		SEC-28	T-19-S	R-32-E			
WELL NO.	FOOTAGE LO			SECTION	TOWNSHIP				
TYPE OF WELL:	PLUGGED	& ABANDON	ED		SPUD DATE:	7/6/63			
				-	• • • • • • • • • • • • • • • • • • •				
SCHEMATIC					TABULAR DATA				
	⊒ 10 SXS CMT	1. SUFAC	E CASING	,	IADOLAN DATA				
920	@ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx		
		TOC:	Surface		FEET DETERMINED BY:	Circulated			
		HOLE SIZE:	:	17-1/2	INCHES				
		2. INTERI	MIDIATE CA	ASING					
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx		
13-3/8"	843'	TOC:	N/A		FEET DETERMINED BY:	N/A			
11	043 10 SXS CMT D 743'-943'	HOLE SIZE:	:	11	INCHES				
		3. LONG	STRING						
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx		
	00 SXS CMT	TOC:	N/A		FEET DETERMINED BY:	N/A			
) 3093'-3350'	HOLE SIZE:	:	N/A	INCHES				
	SIDE TRACKED ON RE-ENTRY	4. TOTAL	. DEPTH:	4111	FEET				
	@ 3300,	5. PERFC	PRATIONS						
1					FEET TO:	N/A FEET			
		6. HAS T	HE WELL E		PERFORATED" PERFORATED IN AN	Y OTHER ZONE(S)?			
CMT PLUG		LIST A	LL SUCH P	ERFORATE	D INTERVALS AND	GIVE PLUGGED			
@3300	File and the second sec	DETAI	L, I.E. SACI	KS OF CEME	ENT OR PLUG(S) US	ED. NONE			
				 	·	FORM C-108			
		1963 WHILE DRILLIN				SECTION VI			
	12 COLLLAR	NT FISHING OPERATI IS IN THE HOLE, TOP PLUS WAS SET FROM	OF FISH TO 3535	. AFTER FISHING F	OR SEVEN DAYS. APPLIC	ATION FOR AUTHORIZATIO	ON		
	COMMENCE	D IN AN UNDETERMI BLE TO GET WHIPST	NED DIRECTION	TO BY-PASS THE JU	JNK IN HOLE	TO INJECT			
	AFTER DRILL ONCE AGAIN	LING THE SIDE TRAC N. TOP OF FISH AT 3	CK HOLE TO DEPT 1667' AFTER FISHI	TH OF 4005", THE DE	RILL PIPE STUCK S ABANDON THE	Parker & Parsley Development L.P.			
	4005' HOLE AND A	NOVED LOCATION. L D BY SPOTTING 300: CMT @ SURFACE.	EFT THREE DRILL	L COLLARS, JARS A	NND BIT IN HOLE. XS @ 743'-943' ;	ATER INJECTION WELL			
4	 111'				TAB	ULATION OF WELL DATA			

ΓΕΧΑ	CO INC				BOWMAN			
PERATO	OR				LEASE			
	1	2310' FNL &	2310' FWL			T-19-S	R-32-E	
	WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
•	TYPE OF WELL:	PLUGGED	& ABANDON	ED	-	SPUD DATE:	10/10/67	7
	SCHEMATIC		1. SUFAC	E CASING	_	ABULAR DATA		
		20'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	500	sx
		CUT 8-5/8" CSG 100" TO SURFACE	TOC:	Surface	F	EET DETERMINED BY:	Circulate	ed
			HOLE SIZE:		11	INCHES		
			2. INTERI	MIDIATE CA	ASING			
			SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
			TOC:	N/A	F	EET DETERMINED BY:	N/A	
			HOLE SIZE:	·	N/A	INCHES		
			3. LONG	STRING				
8-5/8'		880'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	700	sx
			TOC:	Surface	F	EET DETERMINED BY:	Circulate	ed
			HOLE SIZE:	·	7-7/8	INCHES		
			4. TOTAL	DEPTH:	2770	FEET		
			5. PERFC	PRATIONS	2628	FEET TO:	2648	FEET
					(PERFORATED	OR OPEN HOLE; INDIC		
					VER BEEN P	ERFORATED IN ANY INTERVALS AND G		
						NT OR PLUG(S) USE		N/A
		CMT PLUG @ 2250'-2350'						
					* [*]			
							FORM C-108	
						APPL	SECTION VI JCATION FOR AUTHORI TO INJECT	ZATION
		CMT PLUG @ 2580'-2680'					Parker & Parsley Development L.P.	
	100						WATER INJECTION WEI	L.
5	5-1/2"	2720'				т.	ABULATION OF WELL D	ATA

		N DRILLING CL).			AN FEDERAL		
PERATO	R				LEASE			
	1	330' FSL 8	3 2310' FWL		SEC-29	T-19-S	R-32-E	
	WELL NO.	FOOTAGE L	OCATION		SECTION	TOWNSHIP	RANGE	
	YPE OF WELL:	PLUGGEI	2 & ABANDON	ED	-	SPUD DATE:	8/15/5	57
	SCHEMATIC					TABULAR DATA		
c			1. SUFAC	E CASING				
		10 SXS CMT @ SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	500	SX
			TOC:	Surface	-	FEET DETERMINED BY:	Circula	ted
			HOLE SIZE:		11	INCHES		
			2. INTERI	MIDIATE CA	ASING			
			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			•	
8-5/8"		880'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	600	sx
			TOC:	250		FEET DETERMINED BY:	Temp. Su	rvey
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	DEPTH:	2770	FEET		
			5. PERFC	RATIONS				
		·			2493 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDIC	2567 ATE WHICH)	FEET
			6. HAS TI	HE WELL E	VER BEEN	PERFORATED" PERFORATED IN AN	OTHER ZONE(S)?	,
						ED INTERVALS AND G ENT OR PLUG(S) USE		NONE
		CMT PLUG @ 2500'-2690'						
		<u> </u>			·			
								
							FORM C-108 SECTION VI	
						APPI	LICATION FOR AUTHOR TO INJECT	RIZATION
							Parker & Parsley Development L.P.	
							WATER INJECTION WE	ELL
5-	1/2"	- 2720'				τ	ABULATION OF WELL I	DATA

TEXACO INC				SA BOWM	AN FEDERAL	
OPERATOR				LEASE		
4	990' FSL &	1659' FEL		SEC-29	T-19-S	R-32-E
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE
TYPE OF WELL:	PLUGGED	& ABANDON	ED	-	SPUD DATE:	12/8/87
SCHEMATIC		1 SUEAC	E CASING		TABULAR DATA	
		1. JUFAC	L CASING			
		SIZE:	11-3/4	INCHES	CEMENTED WITH:	1000 sx
11-3/4"	928'	TOC:	Surface		FEET DETERMINED BY:	Circulated
	3 320	HOLE SIZE:		14-3/4	INCHES	
		2. INTERN	MIDIATE CA	ASING		
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	1800 sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated
8-5/8"	3842°	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	
1291		5. PERFO	RATIONS		6428 FEET TO:	6139 FEET
				(PERFORAT	ED OR OPEN HOLE; INDIC	
		LIST A	LL SUCH P	ERFORATE	PERFORATED IN AN	SIVE PLUGGED
		DETAIL	_, I.E. SACI	(S OF CEM	ENT OR PLUG(S) USE	D. NONE
	' CMT BP @ 6300'			**		
CIBP CI	D.			, , , , , , , , , , , , , , , , , , ,		FORM C-108
124 IS	:RFS 28'-6139'					SECTION VI
製 	5' CMT IBP @ 6650'				APPLICA	TION FOR AUTHORIZATION TO INJECT
	8850'					Parker & Parsley Development L.P.
		•			WA	TER INJECTION WELL

Parker & Parsley					'- ~		
Development L.P.				NEW MEX	ICO "DH" STATE		
OPERATOR				LEASE			
1	330' FNL &	330' FEL		SEC-32	T-19-S	R-32-E	
WELL NO.	FOOTAGE LO			SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED	PLUGGED & ABANDONED			SPUD DATE:	2/25/71	···
SCHEMATIC					TABULAR DATA		
	10 SXS CMT	1. SUFAC	E CASING				
	@ SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	530	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		11	INCHES		
		2. INTERN	MIDIATE C	ASING			
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
		TOC:	N/A		FEET DETERMINED BY:	N/A	
		HOLE SIZE:		N/A	INCHES		
	30 SXS CMT @ 850'-950'	3. LONG	STRING				
8-5/8"	900,	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. PERFO	RATIONS				
			,	N/A (PERFORAT)	FEET TO:	N/A FEET	
					PERFORATED"		
					PERFORATED IN AN	• •	
					ENT OR PLUG(S) USE		N/A
	40 SXS CMT						
	@ 2360'-2500'						
							
		· · · · · · · · · · · · · · · · · · ·				FORM C-108 SECTION VI	
					APPLICA	ATION FOR AUTHORIZATI	ON
	AND THE PROPERTY OF THE PROPER					Parker & Parsley	
	40 SXS CMT					Development L.P.	
	@ 2610'-2750'				WA	TER INJECTION WELL	

Development	L.P.				NEW MEX	ICO "DH" STATE		
OPERATOR					LEASE			
1-1	Y	380' FNL & 3	330' FEL		SEC-32	T-19-S	R-32-E	
WELL		FOOTAGE LOC			SECTION	TOWNSHIP		
TYPE OF W	VELL:	PLUGGED 8	ABANDON	ED	.	SPUD DATE:	3/12/71	
SCHE	МАПС		1 SUEAC	E CASING		TABULAR DATA		
		10 SXS CMT	1. 30FAC	E CASING				
		W SURFACE	SIZE:	10-3/4	INCHES	CEMENTED WITH:	680	\$X
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
10-3/4		900'	HOLE SIZE:		17-1/2	INCHES		
				MIDIATE CA				
	-		SIZE:	7-5/8	INCHES	CEMENTED WITH:	350	sx
7-5/8*		10 SXS CMT	TOC:	Surface	·	FEET DETERMINED BY:	Circulated	
	CIBP	CIBP @ 2700	HOLE SIZE:		11	INCHES		
7-5/8"			3. LONG	STRING				
		2800'	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. PERFO	RATIONS				
		4-1/2" PULLED			4760 (PERFORAT)	FEET TO: ED OR OPEN HOLE; INDI PERFORATED"	4816 FEET	
4-1/2	CIBP		LIST A	LL SUCH P	ERFORATE	PERFORATED IN AN ED INTERVALS AND C ENT OR PLUG(S) USI	SIVE PLUGGED	
					>_ <		······································	
							FORM C-108 SECTION VI	
		3 SXS CMT				APPLICA	TO INJECT	
	CIBP	CIBP @4742' PERFS					Parker & Parsley Development L.P.	
		4760'-4816' '	•			WA	TER INJECTION WELL	
4-1/2"		5050'				TABL	JLATION OF WELL DATA	

PERATO	₹				LEASE			
		330' FNL &						
	WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
Т	YPE OF WELL:	PLUGGED 8	& ABANDON	ED	•	SPUD DATE:	12/16/87	
	SCHEMATIC		4 607.0			TABULAR DATA		
9		10 SXS CMT	1. SUFAC	E CASING				
		@ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	760	sx
		25 SXS CMT	TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"		890'	HOLE SIZE:		17-1/2	INCHES		
			2. INTERN	MIDIATE CA	ASING			
			SIZE:	8-7/8	INCHES	CEMENTED WITH:	1555	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
		25 SXS CMT	HOLE SIZE:		11	INCHES		
<i>8</i> -5/8"		@ 3800'-4000'	3. LONG	STRING				
<i>0</i> -3/0		3908'	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. PERFO	RATIONS				
					5664	FEET TO:	5681 FEET	
					(1 210 01011	PERFORATED"	JA 12 111.101.1,	
						PERFORATED IN AN'		?
						ENT OR PLUG(S) USE		N/A
					البدد			
					······································		CORM C 400	
							FORM C-108 SECTION VI	
		OS! ONT				APPLICA	TION FOR AUTHORIZAT	TION
	CIBP	35' CMT CIBP @ 5560'					Parker & Parsley Development L.P.	
	CIBP	PERFS @ 5664'-5681'		w .a		WA	TER INJECTION WELL	
						TABL	ILATION OF WELL DATA	A

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	22			× 9			→ 1		3	4	2,5	, ≪ 4-B ,	√ 1-A
	• 1		1				,	1 •	+ 5	2	2 •	3-B	8,
		18			17			1	.6			1-B•	€3-A 5-A,€
		13 • • 1	4 1	≠ 11			- -2	/ 1	,	1	1	4-A	
		≠ 2				1,	• 1			4	2	!-B● /	¥2-A
	ф 1	\$ 3	•1		19 •	17	•1	2			/ 1	-	≥ 2
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		30	,1	\$a 5	SAI	SO CAILF	,3		28			27	
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						% 2							

PROPOSED INJECTION WELL DATA SHEET

Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL PERATOR: Development L.P. T-19-S R-32-E 1980' FEL & 660' FSL **SEC-29** /ELL NO 12 FOOTAGE LOCATION SECTION TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 675 SX SIZE: 850 13-3/8" Surface FEET DETERMINED BY: Circulated TOC: 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: 775 SX SIZE: 4050 8-5/8° Circulated FEET DETERMINED BY: Surface TOC: HOLE SIZE: 11 **INCHES** 3. LONG STRING 5-1/2 INCHES CEMENTED WITH: 1265 SIZE SX TOC: FEET DETERMINED BY: Circulated 7-7/8 HOLE SIZE: 4. INJECTION INTERVAL 6425 FEET TO: 6450 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6360 PERFS 7200 5. TOTAL DEPTH: FEET 6425'-6450' 6. TUBING SIZE 5-1/2 IPC 505 - PLASTIC COATING SIZE: 2-7/8 INCHES LINED WITH: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET: THER DATA X YES IS THIS A NEW WELL DRILLED FOR INJECTION? NO IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? NAME THE INJECTION FORMATION: 6400' SAND (BRUSHY CANYON) NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO 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 **FORM C-108** SECTION III S. LUSK BONE SPRING **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P. WATER INJECTION WELL E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

· ~ POSED INJECTION WELL DATA SHEFT

Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. PERATOR: 1650' FSL & 990' FEL **SEC-29** T-19-S R-32-E **NELL** RANGE SECTION **TOWNSHIP FOOTAGE LOCATION SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 775 SIZE: 13-3/8 INCHES CEMENTED WITH: SX 13-3/8" 877 FEET DETERMINED BY: Circulated TOC: 17-1/2 2. INTERMIDIATE CASING 8-5/8 SIZE: INCHES CEMENTED WITH: SX 3836 FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 12-1/4 INCHES 3. LONG STRING 4-1/2 600 SIZE: INCHES CEMENTED WITH: SX TOC: 3400 FEET DETERMINED BY: SQZ HOLE @ 3400' W/35 SXS CMT 7-7/8 HOLE SIZE: INCHES PKR @ 6360 4. INJECTION INTERVAL 6430 6450 FEET TO: PROPOSED (PERFORATED OR OPEN HOLE; INDICATE WHICH) DELAWARE "PERFORATED" PERFS @ PROPOSED CIBP 5. TOTAL DEPTH: _____ 11449 FEET CIBP @ 6600' 6. TUBING SIZE **PERFS** 11324'-11368' 2-7/8 INCHES IPC 505 - PLASTIC COATING SIZE: LINED WITH: 11410 SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 OTHER DATA IS THIS A NEW WELL DRILLED FOR INJECTION? X IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) 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. 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 **FORM C-108** SECTION III S. LUSK BONE SPRING **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-1070 LUSK WOLFCAMP OIL Development L.P.

> E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL

WATER INJECTION WELL

TOPOSED INJECTION WELL DATA SHEFT

Parker & Parsley LEASE: S. A. BOWMAN FEDERAL Development L.P. **OPERATOR:** 2310' FSL & 2160' FWL **SEC-29** T-19-S R-32-E WELL NO FOOTAGE LOCATION SECTION TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 SX 11-3/4" Surface FEET DETERMINED BY: Circulated TOC: 14-3/4 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 1400 SIZE: INCHES CEMENTED WITH: 3796 8-5/8 FEET DETERMINED BY: Circulated Surface TOC: 11 INCHES 3. LONG STRING 1610 SIZE: 5-1/2 INCHES CEMENTED WITH: SX Circulated TOC: Surface FEET DETERMINED BY: 7-7/8 HOLE SIZE: 6446 4. INJECTION INTERVAL 6431 FEET FEET TO: (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 6360 6850 PERFS 5. TOTAL DEPTH: FEET 6431'-6446' 6. TUBING SIZE 6850 5-1/2 SIZE: 2-7/8 INCHES LINED WITH: **IPC 505 - PLASTIC COATING** ARROW SET 1-XS, PKR 6360 SET IN A: PACKER AT: **OTHER DATA** X 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 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE 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 FORM C-108 SECTION III S. LUSK BONE SPRING APPLICATION FOR AUTHORIZATION E. LUSK BONE SPRING TO INJECT

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

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL Parker & Parsley

Development L.P.
WATER INJECTION WELL

PTOPOSED INJECTION WELL DATA SHEET

Parker & Parsley **LEASE: SOUTHERN CAILFORNIA FEDERAL** Development L.P. OPERATOR: T-19-S R-32-E 990' FSL & 660' FWL SEC-29 WELL NO **FOOTAGE LOCATION** SECTION TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 735 13-3/8 INCHES CEMENTED WITH: SX SIZE: 13-3/8" 881 FEET DETERMINED BY: Circulated TOC: 17-1/2 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 2600 8-5/8 CEMENTED WITH: SX INCHES SIZE: 4498 Circulated FEET DETERMINED BY: TOC: Surface HOLE SIZE: 12-1/4 INCHES 3. LONG STRING 5-1/2 940 SIZE: INCHES CEMENTED WITH: SX 4200 CALCULATED TOC: FEET DETERMINED BY: 7-7/8 INCHES HOLE SIZE: 4. INJECTION INTERVAL 6389 6399 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6320 7200 FEET 5. TOTAL DEPTH: 6389-6399 6. TUBING SIZE 5-1/2 2-7/8 INCHES **IPC 505 - PLASTIC COATING** LINED WITH: ARROW SET 1-XS, PKR SET IN A: PACKER AT: 6320 FEET: OTHER DATA X IS THIS A NEW WELL DRILLED FOR INJECTION? YES NO PRODUCING OIL AND GAS WELL IF NO. FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: В. NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NO GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 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** N.W. LUSK MORROW GAS LUSK DELAWARE N. LUSK MORROW GAS 3. BONE SPRING 8200'-8950' WATKINS BONE SPRING LUSK BONE SPRING **FORM C-108** SECTION III S. LUSK BONE SPRING **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P.
WATER INJECTION WELL E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

		T	ALLE DATA SUE	: = 1		
Parker	& Parsley	<u></u>		. - ,		
	opment L.P.		SOUTHER	N CALIFORNIA FEDER	AL	
OPERATO		· · · · · · · · · · · · · · · · · · ·	LEASE		, <u></u>	
	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 GA	S WELL	SPUD DATE: _	12/5/87	
Ā	SCHEMATIC	1. SUFACE CA		TABULAR DATA		
		SIZE: 13	3-3/8 INCHES	CEMENTED WITH:	735	sx
			face	FEET DETERMINED BY:	Circulated	
13-3/8"	880'		17-1/2	INCHES		
		2. INTERMIDIA	TE CASING			
		SIZE: 8	-5/8 INCHES	CEMENTED WITH:	2350	sx
		тос: Sur	face	FEET DETERMINED BY:	Circulated	
		HOLE SIZE:	12-1/4	INCHES		
8-5/8"	4474'	3. LONG STRIF	NG			
		SIZE: 5	-1/2 INCHES	CEMENTED WITH:	800	sx
		тос:	4210	FEET DETERMINED BY:	Cmt Bond Log]
		HOLE SIZE:	7-7/8	INCHES		
		4. TOTAL DEP	TH: 7200	FEET		
		5. PERFORATI	ONS 6426	FEET TO:	6444 FE	ET
				D OR OPEN HOLE; INDICA "PERFORATEL	TE WHICH)	· - ·
	□ □ TBG@ 63	38 3'	. ≟		FORM C-108 SECTION VI	

PERFS 6426'-6444'

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

Parke	er & Pars	ley								
	lopment	•			SOUTHER	N CALIFORN	IA FEDER	RAL		
OPERA	TOR				LEASE					
	7 WELL N		2210' FNL & 2260' FV	/L	SEC-29		-19-S OWNSHIP	R-32		
			PRODUCING OIL AN	D GAS WEI				3/		
						_	•			
	SCHE	MATIC	1. SUFAC	E CASING		TABULAR I	DATA			
			SIZE:	13-3/8	INCHES	CEMENTED WIT	тн:	7	35	sx
13-3/8"		903,	TOC:	Surface		FEET DETERMI	NED BY:	Circ	ulated	
13-30			HOLE SIZE:	···	17-1/2	!N	CHES			
			2. INTERN	IIDIATE CA	SING					
			SIZE:	8-5/8	INCHES	CEMENTED WIT	TH:	24	450	sx
			TOC:	Surface		FEET DETERMI	NED BY:	Circ	ulated	
		4500	HOLE SIZE:		12-1/4	IN	CHES			
8-5/8		1 221- 4300	3. LONG S	STRING				•		
			SIZE:	5-1/2	INCHES	CEMENTED WIT	TH:	6	00	sx
			TOC:	4000		FEET DETERMI	NED BY:	Cmt B	ond Log	
			HOLE SIZE:		7-7/8	IN-	CHES			
			4. TOTAL	DEPTH:	7204	FE	ET			
			5. PERFO	RATIONS	6429	C E	ET TO:	6442	FEET	
						ED OR OPEN HO		CATE WHICH)		
					أييو			FORM C-108		
		TBG@ 65	00.					SECTION VI		
	***************************************	PERFS 6429'-64	42'			AP	PLICATIO	ON FOR AUTHO	RIZATION	

Parker & Parsley Development L.P.

WATER INJECTION WELL

Parker & Parsley Development L.P

SOUTHERN CALIFORNIA FEDERAL

Development L.F.				IN CALIFORNIA I	EDERAL		
OPERATOR			LEASE				
13	660' FSL & 660' FEL		SEC-29	T-19-	S R	R-32-E	
WELL NO.	FOOTAGE LOCATION		SECTION	TOWN	SHIP R	ANGE	
TYPE OF WELL:	PRODUCING OIL AN	D GAS WE	LL	SPUD	DATE:1	997	
SCHEMATIC	1 SUEAC	E CASING		TABULAR DAT	<u>[A</u>		
	1. 301 A0	L CASING					
	SIZE:	13-3/8	INCHES	CEMENTED WITH:		675	sx
8-5/8*	TOC:	Surface	·	FEET DETERMINED	ВУ:С	Circulated	
	= -		17-1/2	INCHE	:S		
	2. INTERN	MIDIATE CA	ASING				
	SIZE:	8-5/8	INCHES	CEMENTED WITH:		1325	sx
	TOC:	Surface		FEET DETERMINED	BY: C	Circulated	
			12-1/4	. INCHE	S	-	
8-5/8" 4050	3. LONG	STRING					
8-5/8*	SIZE:	5-1/2	INCHES	CEMENTED WITH:		1530	sx
	TOC:	Surface		FEET DETERMINED	ву:С	Circulated	
	HOLE SIZE:		7-7/8	INCHE	s		
	4. TOTAL	DEPTH:	7200	FEET			
	5. PERFO	RATIONS	• . • •		2442		
			6420	FEET :	TO: 6440; INDICATE WHICH)	FEET	
			,	"PERFO			
			غيد		FORM C-10	Ω	
TBG@	6500'				SECTION V		
∑ ∑ TBG@ PERFS 6420'-6	i.			APPLI	CATION FOR AUT TO INJECT		
5-1/2" 7200°					Parker & Pars Development	-	

WATER INJECTION WELL

KINCAI	2 WATS	ON DRILLING CO	• _		SA BOWMAN FEDERAL				
OPERATOR					LEASE				
	11	330' FSL &	2310' FWL		SEC-29	T-19-S	R-32-E		
	WELL NO.	FOOTAGE LO			SECTION	TOWNSHIP	RANGE		
TY	PE OF WELL:	PLUGGED	& ABANDON	ED	-	SPUD DATE:	8/15/57		
	SCHEMATIC	3	1. SUFAC	E CASING		TABULAR DATA			
=		10 SXS CMT @ SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	500 sx		
		10 SXS CMT @ SURFACE	TOC:	Surface		FEET DETERMINED BY:	Circulated		
			HOLE SIZE:		11	INCHES			
			2. INTER	WIDIATE CA	ASING				
			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					
8-5/8**		880'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	600 s>		
			TOC:	250		FEET DETERMINED BY:	Temp. Survey		
			HOLE SIZE:		7-7/8	INCHES			
			4. TOTAL	DEPTH:	2770	FEET			
			5. PERFO	RATIONS					
	}		a 1140 T 1			FEET TO: ED OR OPEN HOLE; INDIC PERFORATED"			
			LIST A	LL SUCH P	ERFORATE	PERFORATED IN AN ED INTERVALS AND G ENT OR PLUG(S) USE	GIVE PLUGGED		
		@ 2500'-2690'							
					فيرو				
		CMT PLUG @ 2500'-2690'				وهو المستقد المستقد المستقدية والمستقدية والمستقدية والمستقدية والمستقدية والمستقدية والمستقدية والمستقدية والم	FORM C-108 SECTION VI		
						APP	LICATION FOR AUTHORIZATION TO INJECT		
							Parker & Parsley Development L.P.		
							WATER INJECTION WELL		
5-1	rz- 🖺	2720				•	TABULATION OF WELL DATA		

rker & Parsley						
velopment L.P.				SOUTHER	N CALIFORNIA FEDE	RΔI
RATOR				LEASE		
3	40001 501 8 4	080' EM		SEC 20	T 40 C	D 22 E
WELL NO.	1980' FSL & 1 FOOTAGE LOCA			SEC-29	T-19-S TOWNSHIP	
	_					
TYPE OF WELL:	PLUGGED &	ABANDON	ED	-	SPUD DATE:	10/24/63
SCHEMATIC		4 611546	- 046W6		TABULAR DATA	
88 88 B	96' CMT	1. SUPAC	E CASING			
	@ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	600
			^		•	
	75 SXS CMT @ 711'-811'	TOC:	Surface		FEET DETERMINED BY:	Circulated
/8"	899'	HOLE SIZE:		17-1/2	INCHES	
'	033					
	SIDE TRACKED ON RE-ENTRY	2. INTERN	MIDIATE CA	ASING		
	@ 2100'-2373'	SIZE:	8-5/8	INCHES	CEMENTED WITH:	1700
	A -					
	150 SXS CMT @ 2175'-2304'	TOC:	Surface		FEET DETERMINED BY:	Circulated
		HOLE SIZE:		11	INCHES	
	25 SXS CMT					
	@ 4490'	3. LONG	STRING			,
-5/8"	4604'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300
4	-1/2" STUB					
	SXS CMT 4700'	TOC:	10100		FEET DETERMINED BY:	Temp. Survey
@ 4	¥700°	HOLE SIZE:		7-7/8	INCHES	
		4. TOTAL	DEPTH:	11406	FEET	
		5. PERFO	RATIONS			
				11330	FEET TO:	11340 FEET
	_			(PERFORATI	ED OR OPEN HOLE; INDIC PERFORATED"	CATE WHICH)
		6. HAS TH	HE WELL E	VER BEEN	PERFORATED IN AN	Y OTHER ZONE(S)?
V					D INTERVALS AND G	
254		DETAIL	., I.E. SACI	(S OF CEM	ENT OR PLUG(S) USE	D. NONE
				,		
						FORM C-108
						SECTION VI
					APPLICA	TION FOR AUTHORIZATION
	5 SXS CMT					TO INJECT
	PERFS					Parker & Parsley
	1330'-11340'					Development L.P.
					WA	TER INJECTION WELL

TEXACO INC				BOWMAN			
PERATOR				LEASE			
1	2310' FNL &	2310' FWL		SEC-29	T-19-S	R-32-E	
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED 8	ABANDONI	ED		SPUD DATE:	10/10/67	7
COUCHATIO					TARUNAR RATA	,	
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
	20'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	500	sx
	CUT 8-5/8" CSG 100' TO SURFACE	TOC:	Surface		FEET DETERMINED BY:	Circulate	<u>ed</u>
		HOLE SIZE:		11	INCHES		
		2. INTERN	MIDIATE CA	ASING			
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	SX
8-5/8"		TOC:	N/A	 _	FEET DETERMINED BY:	N/A_	
		HOLE SIZE:		N/A	INCHES		
		3. LONG	STRING				
8-5/8"	8 80'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	700	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulat	ed
		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	2770	FEET		
		5. PERFO	RATIONS	2628	FEET TO:	2648	FEET
				(PERFORATE	ED OR OPEN HOLE; INDIC		
				VER BEEN	PERFORATED IN ANY		
					D INTERVALS AND G ENT OR PLUG(S) USE		N/A
	CMT PLUG		·				
	@ 2250'-2350'			ع_د			
						FORM C-108 SECTION VI	
					APPL	ICATION FOR AUTHORI	ZATION
	CMT PLUG @ 2580'-2680'					Parker & Parsley Development L.P.	
						WATER INJECTION WE	щ
5-1/2"	2720'				Τ.	ABULATION OF WELL D	ATA

	CO INC.			·····		NEW MEX	CICO "CR" STATE		
OPERA	TOR					LEASE			
			330' FNL & 16	62' FWL					
	WELL NO.		FOOTAGE LOCA	ATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WEL	L:	DRY HOLE	, <u></u> -			SPUD DATE:	11/16/8	7
	SCHEMA	TIC		1. SUFAC	E CASING		TABULAR DATA		
			6 SXS CMT	SIZE:	11-3/4	INCHES	CEMENTED WITH:	1000	sx
			33 73 331.1732	TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
11-3/4"	7668		950'	HOLE SIZE:		17-1/2	INCHES		
			25 SXS CMT 810'-1060'	2. INTERM	MIDIATE CA	SING			
			30 SXS CMT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2200	SX
			2150'-2440	TOC:	Surface		FEET DETERMINED BY:	Circulate	<u>ad</u>
				HOLE SIZE:		12-1/4	INCHES		
8-5/	/8"		3800'	3. LONG S	STRING				
				SIZE:	5-1/2	INCHES	CEMENTED WITH:	1600	sx
				TOC:	Surface		FEET DETERMINED BY:	Circulate	<u>ed</u>
				HOLE SIZE:		7-7/8	INCHES		
				4. TOTAL	DEPTH:	6863	FEET		
				5. PERFO	RATIONS	6442	FEET TO:	644 6	FEET
					•	•	ED OR OPEN HOLE; INDIC	ATE WHICH)	•
				LIST AL	L SUCH PE	RFORATE	PERFORATED IN ANY D INTERVALS AND G ENT OR PLUG(S) USE	IVE PLUGGED	NONE
								FORM C-108 SECTION VI	
							APPL	ICATION FOR AUTHORIZ TO INJECT	ATION
								Parker & Parsley Development L.P.	
		200						WATER INJECTION WELL	-
5	i-1/2"	68	63°				TA	BULATION OF WELL DA	TA

ker & Parsley							
elopment L.P.					CO "DH" STATE		
ATOR				LEASE			
1-Y	380' FNL &	330' FEL		SEC-32	T-19-S	R-32-E	
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED	& ABANDONI	ED		SPUD DATE:	3/12/71	
				•	<u></u>		
SCHEMATIC					TABULAR DATA		
SCHEMATIC	1727	1. SUFAC	E CASING		TABULAN DATA		
	10 SXS CMT @ SURFACE	0.75	40.244		0.000	600	
		SIZE:	10-3/4	INCHES	CEMENTED WITH:	680	
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
				47.40			
3/4	900'	HOLE SIZE:		17-1/2	INCHES		
		2. INTERN	MIDIATE CA	SING			
7.5/8°		SIZE:	7-5/8	INCHES	CEMENTED WITH:	350	
		OILL.	7-070	MONES	CEMENTED WITH.		
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
	10 SXS CMT	HOLE SIZE		11	INCHES		
CIBP	CIBP @ 2700						
7-5/8"		3. LONG	STRING			,	
	2800'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	154	
		TOC:	4400		FEET DETERMINED BY:	Temp. Survey	
		HOLE SIZE:		7-7/8	INCHES		
		4 70741	DEDTU	5050			
		4. TOTAL	DEPTH:	5050	FEET		
		5. PERFO	RATIONS				
	•			4760	FEET TO:	4816 FEET	
4	-1/2" PULLED				PERFORATED"	CATE WHICH	
					PERFORATED IN AN		
					ED INTERVALS AND G ENT OR PLUG(S) USE		
				·		FORM C-108	
						SECTION VI	
	3 SXS CMT		•		APPLICA	TION FOR AUTHORIZATION	I
CIBP	CIBP @4742'					TO INJECT	
	PERFS					Parker & Parsley Development L.P.	
	4760'-4816'				W.A	TER INJECTION WELL	
						JLATION OF WELL DATA	

Development L.P.				NEW MEX	ICO "DH" STATE		
OPERATOR				LEASE			
. 1	330' FNL &	330' EEI		SEC-32	T-19-S	D.32.E	
WELL NO.	FOOTAGE LO		······································	SECTION	TOWNSHIP		
TYPE OF WELL:	PLUGGED	& ABANDONI	ED	_	SPUD DATE:	2/25/71	·
SCHEMATIC					TABULAR DATA		
600 m m m m m m m m m m m m m m m m m m		1. SUFAC	E CASING				
	10 SXS CMT @ SURFACE	SIZE:	8-5/8			5 20	
		51ZE:	0-5/6	INCHES	CEMENTED WITH:	530	S X
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		11	INCHES		
		2. INTERN	MIDIATE C	ASING			
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
8-5/8*		TOC:	N/A		FEET DETERMINED BY:	N/A	
		UOLE 617E.					
	30 SXS CMT	HOLE SIZE:		N/A	INCHES		
	@ 850'-950'	3. LONG	STRING				
8-5/8"	900,	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. PERFO	RATIONS				
				N/A	FEET TO:	N/A FEE	īT
				(PERFORAT	ED OR OPEN HOLE; INDI	CATE WHICH)	
		6. HAS TH	HE WELL	VER BEEN	PERFORATED" PERFORATED IN AN	Y OTHER ZONE(S	5)?
		LIST A	LL SUCH F	PERFORATE	ED INTERVALS AND (SIVE PLUGGED	•
	40 SXS CMT	DETAIL	_, i.E. SAC	KS OF CEM	ENT OR PLUG(S) USI	≣D <u>.</u>	N/A
	@ 2360'-2500'	 			······································		
							
						FORM C-108 SECTION VI	
					APPLICA	ATION FOR AUTHORI	ZATION
						Parker & Parsley	
	40 SXS CMT @ 2610'-2750'					Development L.P.	
						TER INJECTION WEL	
	3508'				TABI	JLATION OF WELL D	ATA

Par	ker	&	Pa	rs	le	y
Dev	/elo	pr	ner	ηt	L.	P

Development L.P.					FORAN "NF" SATE			
OPERAT	OR		<u> </u>		LEASE			
	1	330' FNL & 1	1980' FEI		SEC-32	T-19-S	R_32_F	
	WELL NO.	FOOTAGE LO			SECTION	TOWNSHIP		
								•
	TYPE OF WELL:	PLUGGED 8	ABANDON	ED	-	SPUD DATE:	12/16/87	
•								
	SCHEMATIC	;				TABULAR DATA		
		10 SXS CMT	1. SUFAC	E CASING				
		@ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	760	sx
			J.E.E.		Mones			
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
		25 SXS CMT	UO1 E 017E.		47.40	INCHES		
13-3/8"		890'	HOLE SIZE:		17~172	INCHES		
			2. INTER	MIDIATE CA	ASING			
			SIZE:	8-7/8	INCHES	CEMENTED WITH:	1555	ev.
			SIZE.		INCHES	CEMENTED WITH.	1333	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
					44			
		25 SXS CMT	HOLE SIZE:		- 11	INCHES		
		@ 3800'-4000'	3. LONG	STRING				
8-5/8		3908,	SIZE:	5-1/2	NO.55	CEMENTED WITH:	545	
			31ZE:	3-1/2	INCHES	CEMENTED WITH:	545	SX.
			TOC:	4300		FEET DETERMINED BY:	Temp. Survey	
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	DEPTH:	6588	FEET		
			E DEDEC	RATIONS				
			J. PERPC	RATIONS	5664	FEET TO:	5681 FEET	
					(PERFORATI	ED OR OPEN HOLE; INDI		
			E HASTI	HE WELL E	VED DEEN	PERFORATED" PERFORATED IN AN	V OTHER ZONE/S	, 2
						D INTERVALS AND		•
		•	DETAIL	L, I.E. SACI	KS OF CEMI	ENT OR PLUG(S) USE	ED	N/A -
							FORM C-108 SECTION VI	
	CISP	•				APPLICA	TO INJECT	TION
	CIBP	35' CMT CIBP @ 5560'					Parker & Parsley	
		PERFS					Development L.P.	
		@ 5664'-5681'	-				TER INJECTION WELL	
5	-1/2"	6588'				JAAT	JLATION OF WELL DAT	I A

TEXACO INC SA BOWMAN FEDERAL OPERATOR LEASE **SEC-29** 990' FSL & 1659' FEL T-19-S R-32-E **FOOTAGE LOCATION** SECTION TOWNSHIP RANGE PLUGGED & ABANDONED **SPUD DATE:** 12/8/87 TYPE OF WELL: SCHEMATIC TABULAR DATA 1. SUFACE CASING SIZE: 11-3/4 INCHES CEMENTED WITH: 1000 TOC: Surface Circulated FEET DETERMINED BY: 11-3/4" 928 HOLE SIZE: 14-3/4 INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES SIZE: CEMENTED WITH: 1800 FEET DETERMINED BY: Circulated Surface TOC: HOLE SIZE: 11 INCHES 8-5/8" 3. LONG STRING 5-1/2 INCHES CEMENTED WITH: 1750 SIZE: Surface FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 6850 FEET 5. PERFORATIONS FEET TO: 6139 FEET 6428 (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. 35' CMT CIBP @ 6300' **FORM C-108 PERFS** SECTION VI

6428'-6139'

CIBP @ 6650*

35' CMT

6850

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley

Development L.P.

WATER INJECTION WELL

		≈ 9		2
•1	<u>1</u>	1 7	1. +5	2 • 1 • 3-B 8 × 15 × 3-A
18 +1	4 1	17 *"	+2 1 16 1 1	1-B • 5-A • 5-A • 1
% 2		1,	•1	2-B• ø2-A
ф1 ф3	• 1	19 ● 17 ▼	•1 🔻 2	№ 1 · • 2
10 102 1		≥3 ●ss ▼1s 1s •	21 3 3 4	22
+2 +5		4 20▼	4	• 1
19		21 4	4 ₁ •3	2 •
•1	• 1	SI CALLY FEDERAL 8	∮ 1 •2	•1 . •1
•¹ 30		SO CALLE 7 FEDERAL SO CALLE 7 SO EALL FEDERAL FEDERAL	•² 3 28	27
•2 •4	FEDERA 3	FEDERAL FEDERAL SUICALLE	3-Y ×5	_ /
•1	20	SI CALLF SUMMAN 12 13 CALLF FEDERAL 13	≠ 10	% 1 • 4
1.	• 1	1 NEV MEXICO OR STATE	₹7	
⊕¹ 31		32 •1	√ 9 •1	34
	1,0	32 •1 *3 •5	33	ф·1
		% 2	عمد -	

PPOPOSED INJECTION WELL DATA SHEFT. Parker & Parsley Development L.P. LEASE: S. A. BOWMAN FEDERAL OPERATOR: T-19-S R-32-E 2310' FSL & 2160' FWL **SEC-29** WELL NO 5 FOOTAGE LOCATION SECTION TOWNSHIP RANGE SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING 1000 11-3/4 INCHES CEMENTED WITH: SX SIZE: 895 11-3/4" FEET DETERMINED BY: Circulated Surface TOC: 14-3/4 INCHES HOLE SIZE: 2. INTERMIDIATE CASING 8-5/8 INCHES 1400 SX CEMENTED WITH: SIZE 3796 Circulated TOC: Surface FEET DETERMINED BY: 11 HOLE SIZE: INCHES 3. LONG STRING 1610 5-1/2 INCHES CEMENTED WITH: **8**X SIZE TOC: FEET DETERMINED BY: Circulated 7-7/8 HOLE SIZE: INCHES 6446 4. INJECTION INTERVAL 6431 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR @ "PERFORATED" 6360 5. TOTAL DEPTH: 6850 FEET PERFS 6431'-6446' 6. TUBING SIZE 5-1/2" 2-7/8 INCHES IPC 505 - PLASTIC COATING SIZE: LINED WITH: SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6360 FEET: OTHER DATA Χ 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 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: В. LUSK WEST (DELAWARE) C. NAME THE FIELD OR POOL (IF APPLICABLE) HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE GIVE THE NAME(S) AND DEPTH(S) OF ANY OVER OR UNDERLYING OIL OR GAS ZONES IN THIS AREA: E. 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** W. LUSK DELAWARE 2. DELAWARE 4600'-7100' 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 FORM C-108 S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING

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

E. LUSK WOLFCAMP OIL

S. LUSK WOLFCAMP OIL

TO INJECT Parker & Parsley Development L.P **WATER INJECTION WELL**

PROSED INJECTION WELL DATA SHEET

Parker & Parsley

LEASE: SOUTHERN CAILFORNIA FEDERAL PERATOR: Development L.P. T-19-S R-32-E 990' FSL & 660' FWL **SEC-29** VELL NO TOWNSHIP RANGE SECTION **FOOTAGE LOCATION** SCHEMATIC **WELL CONSTRUCTION DATA** 1. SUFACE CASING SX CEMENTED WITH: 13-3/8 INCHES SIZE: 881 13-3/8" Surface Circulated FEET DETERMINED BY: TOC: 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 2600 CEMENTED WITH: SX 8-5/8 INCHES SIZE: 8-5/8 Circulated Surface FEET DETERMINED BY: TOC: HOLE SIZE: 12-1/4 INCHES 3. LONG STRING 5-1/2 INCHES SX SIZE: CEMENTED WITH: 4200 CALCULATED FEET DETERMINED BY: TOC: _ 7-7/8 HOLE SIZE: 6399 4. INJECTION INTERVAL 6389 FEET TO: FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) PKR@ "PERFORATED" 5. TOTAL DEPTH: 7200 **PERFS** 6389-6399 · 6. TUBING SIZE 5-1/2" LINED WITH: IPC 505 - PLASTIC COATING SIZE: 2-7/8 INCHES SET IN A: ARROW SET 1-XS, PKR PACKER AT: 6320 FEET: OTHER DATA X NO IS THIS A NEW WELL DRILLED FOR INJECTION? YES IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? PRODUCING OIL AND GAS WELL 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: LUSK WEST (DELAWARE) NAME THE FIELD OR POOL (IF APPLICABLE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. 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 **FORM C-108** S. LUSK BONE SPRING SECTION III APPLICATION FOR AUTHORIZATION E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-10700' LUSK WOLFCAMP OIL Development L.P E. LUSK WOLFCAMP OIL **WATER INJECTION WELL**

S. LUSK WOLFCAMP OIL

PF POSED INJECTION WELL DATA SHEET

PERATOR:	:	Development L.P.	•		LEASE:	SOUTHERN CAIL	FORNIA FEDE	ERAL	
VELL NO	12	1980' FEL	& 660' FSL		SEC-29	T-19-S			
so	CHEMAT	FOOTAGE LO	CATION		SECTION	TOWNS	liP	RANGE	
		TRIBIN	1. SUFAC	E CASING		WELL CONSTRU	CTION DATA		
			SIZE:	13-3/8	INCHES	CEMENTED WITH	·ł:	675	sx
13-3/8"		850'	TOC:	Surface		FEET DETERMINED B	i Y :	Circulated	
			HOLE SIZE:		17-1/2	INCHES			
			2. INTERN	IIDIATE CA	ASING				
8-5/8"		4050'	SIZE:	8-5/8	INCHES	CEMENTED WITH	H:	775	sx
0.0,0			TOC:	Surface		FEET DETERMINED B	IY:	Circulated	
			HOLE SIZE:	·	11	INCHES			
			3. LONG S	STRING					
			SIZE:	5-1/2	INCHES	CEMENTED WITH	H:	1265	sx
			TOC:	Surface		FEET DETERMINED E	BY:	Circulated	
			HOLE SIZE:		7-7/8	INCHES			
			4. INJECT	ION INTER		6425 FEET TO			
	×	PKR @ 6360'			=	ERFORATED"	INDICATE WHIC	H)	
		PERFS 6425'-6450'	5. TOTAL	DEPTH:		7200 FEET			
		0420	6. TUBING	SIZE					
5-1 <i>/2</i> **		7200'	SIZE:	2-7/8	INCHES	LINED WITH:	IPC 505 -	PLASTIC COATING	
			SET IN A:	ARROW S	SET 1-XS,	PKR PACKER	RAT:	6360 FEET:	
OTHER DAT	· A								
		EW WELL DRILLED FOR IN	JECTION?	x	YES	NO			
		WHAT PURPOSE WAS THE			_	N/A			
B. N	AME THE	INJECTION FORMATION:		6400' SAN	ND (BRUSH	IY CANYON)			
C. N	AME THE	FIELD OR POOL (IF APPLIC	ABLE)		LUSK WE	ST (DELAWARE)			
D. H.	AS THE V	; ÆLL EVER BEEN PERFORA	TED IN ANY	OTHER ZON	E(S)? LIST AI	LL SUCH PERFORATE	D INTERVALS AN	ID GIVE PLUGGED	
E	DETAIL, I.E	E. SACKS OF CEMENT OR F	'LUG(S) USE	D	NO				 -
Е . G	WE THE I	IAME(E) AND DERTU(E) OF	ANYOVED	OD HINDER! Y	(INC OIL OR O	240 70NF0 W 7180 AF	ne.		
		NAME(S) AND DEPTH(S) OF	WATKINS		ING OIL OR C		***************************************	LUCK CTD MARLOW	
<u>-1</u>	· IAILC	2000-2800	N.E. LUSI	KYATES		5. STRAWN 1100		LUSK STRAWN OIL	
2	י סכו אי	VARE 4600'-7100'	· · · · · · · · · · · · · · · · · · ·	······	- -	6. ATOKA 11200		LUSK ATOKA GAS	
	. DELAY	VARE 4800-7100	LUSK DE	DELAWAR LAWARE	<u>-</u>	7. MORROW 115	000-12000	N.W. LUSK MORROV	W GAS
<u>3</u>	. BONE	SPRING 8200'-8950'		BONE SP		.+ _		N. LUSK MORROW	JAS
-				NE SPRIN BONE SPR	_	_		FORM C-108 Section III	
				BONE SPR		-	· APPI	LICATION FOR AUTHORIZA TO INJECT	TION
4	. WOLF	CAMP 10100'-10700'	LUSK WO	OLFCAMP (OIL			Parker & Parsley Development L.P.	
_			E. LUSK	WOLFCAM WOLFCAM	ĪP OIL	_	т	WATER INJECTION WELL ABULATION OF WELL DAT	

PP OSED INJECTION WELL DATA SHEET

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Parker & Parsley LEASE: SOUTHERN CAILFORNIA FEDERAL Development L.P. PERATOR: 1650' FSL & 990' FEL **SEC-29** T-19-S R-32-E FOOTAGE LOCATION SECTION RANGE TOWNSHIP **SCHEMATIC WELL CONSTRUCTION DATA** 1. SUFACE CASING 13-3/8 CEMENTED WITH: 775 INCHES SIZE: Surface FEET DETERMINED BY: Circulated TOC: 17-1/2 HOLE SIZE: INCHES 2. INTERMIDIATE CASING 2660 8-5/8 SIZE: INCHES CEMENTED WITH: SX 3836 R-5/8 TOC: Surface FEET DETERMINED BY: Circulated 12-1/4 HOLE SIZE: INCHES 3. LONG STRING SIZE: 4-1/2 INCHES CEMENTED WITH: 3400 TOC: FEET DETERMINED BY: SQZ HOLE @ 3400' W/35 SXS CMT 7-7/8 INCHES PKR@ 4. INJECTION INTERVAL 6430 6450 FEET TO: FEET PROPOSED (PERFORATED OR OPEN HOLE; INDICATE WHICH) DELAWARE "PERFORATED" PERFS @ PROPOSED CIBE 11449 FEET CIBP @ 5. TOTAL DEPTH: **660**0' 6. TUBING SIZE **PERFS** 11324'-11368 2-7/8 INCHES LINED WITH: IPC 505 - PLASTIC COATING SET IN A: ARROW SET 1-XS, PKR 4-1/2" PACKER AT: 6360 THER DATA IS THIS A NEW WELL DRILLED FOR INJECTION? YES X NO PRODUCING OIL AND GAS WELL IF NO, FOR WHAT PURPOSE WAS THE WELL ORIGINALLY DRILLED? 6400' SAND (BRUSHY CANYON) NAME THE INJECTION FORMATION: NAME THE FIELD OR POOL (IF APPLICABLE) LUSK WEST (DELAWARE) C. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED D. 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. 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 **FORM C-108** S. LUSK BONE SPRING SECTION III **APPLICATION FOR AUTHORIZATION** E. LUSK BONE SPRING TO INJECT Parker & Parsley 4. WOLF CAMP 10100'-1070 LUSK WOLFCAMP OIL Development L.P

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL **WATER INJECTION WELL**

		PRC 'OS	ED INJEC	CTION WE	ELL DATA SHEET		
	Parker 8	k Parsley		-	·		
PERATOR:	Develop	ment L.P.		LEASE:	SOUTHERN CAILFO	ORNIA FEDERAL	
ELL NO	10	1980' FNL & 1980' FE FOOTAGE LOCATION	L	SEC-29	T-19-S	R-32-E	
		FOOTAGE LOCATION		SECTION	TOWNSHIP	' RANGE	
SCHE	MATIC				WELL CONSTRUCT	ION DATA	
		1. SUFAC	E CASING				
13-3/8"	85	SIZE:	13-3/8	INCHES	CEMENTED WITH:	675	sx
		TOC:	Surface		_FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		17-1/2	INCHES		
		2. INTERN	IIDIATE CA	ASING			
8-5/8"	4050	SIZE:	8-5/8	INCHES	CEMENTED WITH:	775	sx
		TOC:	Surface		_FEET DETERMINED BY:	Circulated	
		HOLE SIZE		11	INCHES		
		3. LONG S	STRING				
		SIZE:	5-1/2	INCHE	S CEMENTED WITH:	1265	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	· · · · · · · · · · · · · · · · · · ·
		HOLE SIZE:		7-7/8	INCHES		
		4. INJECT	ION INTER		6425 FEET TO:	6450 FEET	
	X PKR @ 6360'				ERFORATED"	,	
	PERFS 6425'-64	5. TOTAL 50'	DEPTH:		7200 FEET		
		6. TUBINO	SIZE			•	
5-1/2"	7200'	SIZE:	2-7/8	INCHES	LINED WITH:	IPC 505 - PLASTIC COATING	

THER DATA

NAME THE INJECTION FORMATION:	6400' SAND (BR	USHY CANYON)	
IAME THE FIELD OR POOL (IF APPLICAB	LE) LUSK	WEST (DELAWARE)	
AAS THE WELL EVER BEEN PERFORATE	O IN ANY OTHER ZONE(S)2 11	ST ALL SUCH PERFORATED INTERVALS A	ND GIVE PILIGGED
	1.12	THE GOOT EN GIGHED INTERVALOR	MD GIVE I EUGGED
DETAIL, I.E. SACKS OF CEMENT OR PLU			
DETAIL, I.E. SACKS OF CEMENT OR PLU		· · · · · · · · · · · · · · · · · · ·	

2-7/8 INCHES

ARROW SET 1-XS, PKR

YES

X

S. LUSK YATES

W. LUSK DELAWARE

WATKINS BONE SPRING LUSK BONE SPRING

S. LUSK BONE SPRING

E. LUSK BONE SPRING

E. LUSK WOLFCAMP OIL S. LUSK WOLFCAMP OIL

LUSK DELAWARE

LINED WITH:

PACKER AT:

NO

6. ATOKA 11200'-11400'

7. MORROW 11500'-12000'

SIZE:

IS THIS A NEW WELL DRILLED FOR INJECTION?

2. DELAWARE 4600'-7100'

3. BONE SPRING 8200'-8950'

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

SET IN A:

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

LUSK ATOKA GAS

LUSK MORROW GAS

N.W. LUSK MORROW GAS N. LUSK MORROW GAS

IPC 505 - PLASTIC COATING

FEET:

	~	٠.	TTELL UM	IN SUCE I			
Parker & Parsley					_		
Development L.P.				SOUTHER	N CALIFORIJIA FEDE	:RAI	
OPERATOR	- · . · · · · · · · · · · · · · · · · ·		·	LEASE	TO OACH ORTHAN EDE		
				-			
2	990' FNL & 9		·		T-19-S	R-32-E	
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED	& ABANDON	ED		SPUD DATE:	3/15/63	
				-			
SCHEMATIC					TABULAR DATA		
		1. SUFAC	E CASING				
	10 SXS CMT	SIZE:	13-3/8	INCHES	CEMENTED WITH:	900	S X
	@ SURFACE						
	25 SXS CMT	TOC:	Surface		FEET DETERMINED BY:	Circulated	
	@ 700'-800'						
13-3/8"	827'	HOLE SIZE:		17-1/2	INCHES		
		2. INTER	MIDIATE CA	ASING			
	25 SXS CMT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2500	sx
	@ 2400'-2500'						
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		11	INCHES		
		HOLE GILL		 	1101120		
		3. LONG	STRING				
8-5/8"	4490' 35 SXS CMT	0.75	4.1/0	********	0514514555144514	200	
	@ 4497'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	\$X
		TOC:	10100)	FEET DETERMINED BY:	Temp. Survey	
	25 SXS CMT				· · · · · · · · · · · · · · · · · · ·		
	4-1/2" STUB @ 6497'	HOLE SIZE:		7-7/8	INCHES		
	3 ·	4. TOTAL	DEDTU.	11406			
		4. 101AL	DEPIN.	11400	FEET		
		5. PERFO	RATIONS				
				11330		11340 FEET	
		•		(PERFORATI	ED OR OPEN HOLE; INDI	CATE WHICH)	
		6. HAS T	HE WELL E	VER BEEN	PERFORATED" PERFORATED IN AN	Y OTHER ZONE(S)?	
					D INTERVALS AND		
		DETAIL	_, I.E. SACI	KS OF CEM	ENT OR PLUG(S) US	ED. NONE	
				فيد			
						FORM C-108	-
						SECTION VI	
					APPLICA	ATION FOR AUTHORIZATION	
						TO INJECT	
	25 SXS CMT					Parker & Parsley Development L.P.	
	BEDES	•				•	
4-1/2	PERFS 11330'-11340'				W	ATER INJECTION WELL	
4-1/2					TAB	ULATION OF WELL DATA	
4-1/2"	11406						

TEXACO INC.				NEW MEX	(ICO "CR" STATE		
OPERATOR				LEASE			
4	330' FNL & 1	662' FWL		SEC-32	T-19-S	R-32-E	·
WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	DRY HOLE	<u></u>		-	SPUD DATE:	11/16/8	17
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
	6 SXS CMT 50' TO SURFACE	SIZE:	11-3/4	INCHES	CEMENTED WITH:	1000	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulat	ed
11-3/4"	950'	HOLE SIZE:		17-1/2	INCHES		
	25 SXS CMT 810'-1060'	2. INTERM	MIDIATE CA	SING			
	30 SXS CMT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2200	sx
	2150'-2440	TOC:	Surface	· · · · · · · · · · · · · · · · · · ·	FEET DETERMINED BY:	Circulat	ed
		HOLE SIZE:	-	12-1/4	INCHES		
8-5/8"	3800'	3. LONG	STRING				
	•	SIZE:	5-1/2	INCHES	CEMENTED WITH:	1600	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulat	ed
		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	6863	FEET		
		5. PERFO	RATIONS	6442	FEET TO:	6446	FEET
		e uac tu		(PERFORATE	ED OR OPEN HOLE; INDIC PERFORATED"	·	-
		LIST AL	L SUCH PE	RFORATE	PERFORATED IN ANY D INTERVALS AND GI ENT OR PLUG(S) USE	VE PLUGGED	NONE
						FORM C-108 SECTION VI	
					APPL	ICATION FOR AUTHORIZ TO INJECT	LATION
	-					Parker & Parsiey Development L.P.	
					,	WATER INJECTION WEL	T
5-1/2"	5863'				TA	BULATION OF WELL DA	ATA

KINCAID & WATSO	N DRILLING CO).			AN FEDERAL		
OPERATOR				LEASE			
	330' FSL 8				T-19-S		
WELL NO.	FOOTAGE L	OCATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGET	& ABANDON	IED	-	SPUD DATE:	8/15/57	
SCHEMATIC		1. SUFAC	CE CASING		TABULAR DATA		
	10 SXS CMT @ SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	500	s
	10 SXS CMT @ SURFACE	TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
		HOLE SIZE	:	11	INCHES		
		2. INTER	MIDIATE CA	ASING			
		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				
8-5/8"	880'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	600	s.
		TOC:	250		FEET DETERMINED BY:	Temp. Surv	/ey
		HOLE SIZE	:	7-7/8	INCHES		
		4. TOTAL	DEPTH:	2770	FEET		
		5. PERFO	PRATIONS				
				2493 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDIC PERFORATED"	2567 CATE WHICH)	FEET
		LIST A	LL SUCH P	ERFORATE	PERFORATED IN AN' ED INTERVALS AND G ENT OR PLUG(S) USE	IVE PLUGGED	NONE
	CMT PLUG @ 2500'-2690'						
	@ 2000 -2000			22			
							
						FORM C-108 SECTION VI	
					APP	LICATION FOR AUTHORIZ TO INJECT	'ATION
						Parker & Parsley Development L.P.	
						WATER INJECTION WEL	T
5-1/2	2720				1	TABULATION OF WELL DA	ATA

EXACO INC				BOWMAN			
PERATOR		-		LEASE			
1	2310' FNL 8	2310' FWL		SEC-29	T-19-S	R-32-E	
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED	& ABANDON	ED	•	SPUD DATE:	10/10/67	7
SCHEMATIC		1. SUFAC	E CASING	:	TABULAR DATA		
	20'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	500	sx
	CUT 8-5/8" CSG 100' TO SURFACE	TOC:	Surface	· · · · · · · · · · · · · · · · · · ·	FEET DETERMINED BY:	Circulate	ed
		HOLE SIZE:		11	INCHES		
		2. INTERN	MIDIATE CA	SING			
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
8-5/8**		TOC:	N/A		FEET DETERMINED BY:	N/A	
		HOLE SIZE:		N/A	INCHES		
		3. LONG	STRING				
8-5/8"	880'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	700	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
8-5/8"		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	2770	FEET		
		5. PERFO	RATIONS	26 28	FEET TO:	2648	FEET
				(PERFORATE	D OR OPEN HOLE; INDIC		1 44.44
				VER BEEN	PERFORATED IN ANY D INTERVALS AND G		
					ENT OR PLUG(S) USE		N/A
	CMT PLUG @ 2250'-2350'						
		-		<u>>_</u> r			
				·····		FORM C-108	
						SECTION VI	
					APPL	ICATION FOR AUTHORI TO INJECT	ZATION
	CMT PLUG @ 2580'-2680'					Parker & Parsley Development L.P.	
						WATER INJECTION WE	LL
5-1/2"	2720				т.	ABULATION OF WELL D	ATA

	-		WELL DA	IA SHEE!			
Parker & Parsley	<i>~</i> .						
Development L.P.				SOUTHER	N CALIFORNIA FEDE	RAL	
OPERATOR				LEASE		· · · · · · · · · · · · · · · · · · ·	
3	1980' FSL &	1080' F\M		SEC-29	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOC		*** ,	SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGED &	ABANDON	ED	_	SPUD DATE:	10/24/63	
SCHEMATIC	С				TABULAR DATA		
Del Mari	1990 POO	1. SUFAC	E CASING				
	96' CMT @ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	600	5x
	75 SXS CMT @ 711'-811'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	899,	HOLE SIZE:		17-1/2	INCHES		
	SIDE TRACKED ON RE-ENTRY	2. INTERI	MIDIATE C	ASING			
	@ 2100'-2373'	SIZE:	8-5/8	INCHES	CEMENTED WITH:	1700	sx
	150 SXS CMT	TOC:	Surface		FEET DETERMINED BY:		-
	@ 2175'-2304'	HOLE SIZE:		11	INCHES		
	25 SXS CMT @ 4490'	3. LONG	STRING				
8-5/8*	4604'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	sx
	4-1/2" STUB 25 SXS CMT @ 4700'	TOC:	10100		FEET DETERMINED BY:	Temp. Survey	
	@ 4/00	HOLE SIZE:		7-7/8	INCHES		
	}} 	4. TOTAL	. DEPTH:	11406	FEET		
		5. PERFC	RATIONS				
				11330 (PERFORAT	FEET TO:	11340 FEET	
					PERFORATED"		
		LIST A	LL SUCH P	ERFORATE	PERFORATED IN AN ED INTERVALS AND G ENT OR PLUG(S) USE	SIVE PLUGGED	
			L, I.L. OAG	NO OF CEN		D. NONE	
				»t			
						FORM C-108 SECTION VI	
					APPLICA	TION FOR AUTHORIZAT	TION
	25 SXS CMT		•			Parker & Pareley	

PERFS 11330'-11340' Parker & Parsley
Development L.P.

WATER INJECTION WELL

Parke	er & Parsley						
Deve	lopment L.P.			SOUTHER	N CALIFORNIA FEDE	RAL	
OPERA	TOR			LEASE			
	0	0001 ENT 4 40001 EET		050.00	T 40.0	D 00 F	
	8 WELL NO.	990' FNL & 1900' FEL	·	SEC-29	T-19-S TOWNSHIP	R-32-E RANGE	
				04077011			
	TYPE OF WELL:	PRODUCING OIL AN	D GAS WE	LL	SPUD DATE	: 4/16/88	
	SCHEMATIC				TABULAR DATA		
	801801	1. SUFAC	E CASING				
		SIZE:	13-3/8	INCUES	CEMENTED WITH:	722	6 14
		SIZE.	10-0/0	INCHES	CEMENIED WITH.	122	SX
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	908			47.4/0			
		HOLE SIZE:		17-1/2	INCHES		
		2. INTERN	NIDIATE C	ASING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	2700	SX
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
	908				•		
		HOLE SIZE:		12-1/4	INCHES		
8-5/8	4504	3. LONG S	STRING				
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	800	SX
		TOC:	2280)	FEET DETERMINED BY:	Cmt Bond Log	
	4504			 	•		
		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	7200	FEET		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J				
		5. PERFO	RATIONS			0.150	
				6446	FEET TO: ED OR OPEN HOLE; IND	6452 FEET	
				(· =: a o o o o o o o o o o o o o o o o o o	"PERFORAT		
		·					
				فدد			
						FORM C-108	
	твоф 6	503'				SECTION VI	
	TBG@ 6 PERFS 6448'-6				APPLICATI	ON FOR AUTHORIZATION	
	6448'-6					TO INJECT	
					D.	arkar & Darelau	
	7192					arker & Parsley evelopment L.P.	
5-	1/2" 7192				De	TOTOPITIONE BIT I	

WATER INJECTION WELL

Parker & Parsley

Deve	lopment	L.P.			SOUTHERN CALIFORNIA FEDERAL					
OPERA	TOR				LEASE					
	7 WELL N		2210' FNL & 2260' FV FOOTAGE LOCATION		SEC-29	T-19-S TOWNSHIP				
	TYPE OF W	ELL:	PRODUCING OIL AN	D GAS WE	<u></u>	SPUD DATE:	3/24/88			
	SCHE	MATIC	1. SUFAC	E CASING		TABULAR DATA				
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	735	sx		
13-3/8"		903,	TOC:	Surface		FEET DETERMINED BY:	Circulated			
10-00		303	HOLE SIZE:		17-1/2	INCHES				
	220		2. INTERN	MIDIATE CA	SING	·				
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	2450	sx		
			TOC:	Surface		FEET DETERMINED BY:	Circulated			
			HOLE SIZE:		12-1/4	INCHES				
8-5/8		4500'	3. LONG S	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. PERFO	RATIONS	0.400	·	0.140			
			·		6429 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDI "PERFORATI				
		4500'								
			ıd.		74.5		FORM C-108 SECTION VI			
		TBG@ 650				APPLICATI	ON FOR AUTHORIZATION TO INJECT			
5	-1/2"	7204'					arker & Parsley velopment L.P.			

WATER INJECTION WELL

Parker & Parsley Development L.P. SOUTHERN CALIFORNIA FEDERAL OPERATOR LEASE 1980' FNL & 660' FEL **SEC-29** T-19-S R-32-E FOOTAGE LOCATION TOWNSHIP RANGE PRODUCING OIL AND GAS WELL 3/23/62 SPUD DATE: TYPE OF WELL: SCHEMATIC TABULAR DATA 1. SUFACE CASING 13-3/8 950 SIZE: INCHES CEMENTED WITH: SX Surface FEET DETERMINED BY: Circulated TOC: 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING SIZE: 9 INCHES CEMENTED WITH: 2725 SX TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 12-1/4 INCHES 3947 3. LONG STRING 5-1/2 INCHES CEMENTED WITH: 2140 sx SIZE: 2450 FEET DETERMINED BY: est. top of cmt sqz. TOC: HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 12834 FEET 5. PERFORATIONS 6448 FEET TO: 6458 (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED" **PERFS** 6448'-6458' PBTD CMT @ 6850' RET @ 7812' W/150 SXS **FORM C-108** SECTION VI RET @ 11292' W/160 SXS

PERFS

11410'-11430'

APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

AAETT NY IN PUEF! Parker & Parsley Development L.P. SOUTHERN CALIFORNIA FEDERAL OPERATOR 1980' FSL & 1980' FEL SEC-29 R-32-E T-19-S FOOTAGE LOCATION RANGE WELL NO. SECTION TOWNSHIP PRODUCING OIL AND GAS WELL 12/5/87 TYPE OF WELL: SPUD DATE: SCHEMATIC TABULAR DATA 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 735 SIZE: тос: Surface FEET DETERMINED BY: Circulated 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 8-5/8 INCHES CEMENTED WITH: SIZE: 2350 TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 12-1/4 INCHES 8-5/8" 3. LONG STRING SIZE: 5-1/2 INCHES CEMENTED WITH: 4210 FEET DETERMINED BY: Cmt Bond Log HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 7200 5. PERFORATIONS 6426 FEET TO: 6444 FEET (PERFORATED OR OPEN HOLE: INDICATE WHICH) "PERFORATED"

TBG@ 6383'

PERFS

6426'-6444'

FORM C-108 SECTION VI SX

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

Parker & Parsley Development L.P.

5-1/2"

SOUTHERN CALIFORNIA FEDERAL

OPERATOR 9 660' FWL & 1980' FSL SEC-29 T-19-\$ R-32-E FOOTAGE LOCATION SECTION WELL NO. TOWNSHIP RANGE SPUD DATE: 7/21/96 TYPE OF WELL: PRODUCING OIL AND GAS WELL SCHEMATIC TABULAR DATA 1. SUFACE CASING 675 sx SIZE: 13-3/8 INCHES CEMENTED WITH: тос: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING SIZE: ____1325 sx 8-5/8 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 11 INCHES 8-5/8" 3. LONG STRING SIZE: 5-1/2 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 7-7/8 INCHES **4. TOTAL DEPTH:** 7210 FEET 5. PERFORATIONS 6391 FEET TO: 6400 (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED" **FORM C-108** SECTION VI TBG@ 6500' APPLICATION FOR AUTHORIZATION PERFS TO INJECT 6391'-6400' Parker & Parsley

WATER INJECTION WELL

Development L.P.

OPERATOR		LEASE		
4 WELL NO.	990' FSL & 1659' FEL	SEC-29	T-19-S	
	PLUGGED & ABANDONED		SPUD DATE:	
SCHEMATIC BB 國	1. SUFACE C		TABULAR DATA	
	SIZE:	11-3/4 INCHES	CEMENTED WITH:	1000 sx
11-3/4"		urface	FEET DETERMINED BY:	Circulated
11-34		14-3/4	INCHES	
	2. INTERMIDI	IATE CASING		
	SIZE: 8-	5/8 INCHES	CEMENTED WITH:	1800 sx
	тос: <u>S</u> і	urface	FEET DETERMINED BY:	Circulated
8-5/8" 3842'	HOLE SIZE:	11	INCHES	
	3. LONG STR	RING		
	SIZE: 5-	1/2 INCHES	CEMENTED WITH:	1750 sx
	тос: <u>S</u>	urface	FEET DETERMINED BY:	Circulated
	HOLE SIZE:	7-7/8	INCHES	
	4. TOTAL DE	PTH: 6850	FEET	,
	5. PERFORA	(PERFORATE	6428 FEET TO:	6139 FEET
	LIST ALL	WELL EVER BEEN SUCH PERFORATE	PERFORATED" PERFORATED IN ANY D INTERVALS AND G ENT OR PLUG(S) USE	IVE PLUGGED
35' CMT		>4		
CIBP & CIBP @				FORM C-108
6428'-61 35' CM	•		APPLICA'	SECTION VI TION FOR AUTHORIZATION TO INJECT
5-1/2" G850'				Parker & Parsley Development L.P.

WATER INJECTION WELL

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18 +1 +	17	10 +5 02	2 1 1 5 ×3-A 1-B 5-A ×
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19 19 19 19 19 19 19 19	21 • 4	4 ● 3	2 •
•1	# 2 8 ▲ !!	ø 1 •2	•1 •1
FEDERAL FEDER 1 FEDERAL FEDER 1 FEDERAL 1	3 SO CAILF FEDERAL 4 SA SOU CAILF SO CAILF	28 3-Y 55	27 •1 •4
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PTT SED INJECTION WELL DATA SHEET

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PERATO		Parker & Parsley Development L.F		LE	ASE:	SOUTHER	RN CAILFORNIA	A FEDE	RAL	
VELL NO	6	990' FSL	& 660' FWL	SE	C-29		T-19-S		R-32-E	
	SCHEMATI	FOOTAGE !	OCATION	SE	CTION		TOWNSHIP		RANGE	
<u> </u>			4 CUEAC	E CARING	,	WELL CO	NSTRUCTION	DATA		
			1. SUPAC	E CASING						
13-3/8"		881'	SIZE:	13-3/8	INCHES	CEMEN	ITED WITH:		735	GAS OW GAS V GAS ZATION
13-3/0			TOC:	Surface		FEET DETEI	RMINED BY:		Circulated	·
			HOLE SIZE:	17	'-1/2		INCHES			
				MIDIATE CASI			-			
8-5/8"		. 4498'	SIZE:	8-5/8	INCHES	CEMEN	ITED WITH:		2600	sx
8-3/6			TOC:	Surface		FEET DETE	RMINED BY:		Circulated	
			HOLE SIZE:	12	2-1/4		_INCHES			
			3. LONG S	STRING						
			SIZE:	5-1/2	INCHES	CEMEN	NTED WITH:		940	SX
			TOC:	4200		FEET DETE	RMINED BY:	C	ALCULATED	
			HOLE SIZE:		7-7/8		INCHES			
	X X	PKR @ 6320'	4. INJECT		ERFORATE		HOLE; INDICAT		6399 FEET	
		E PERFS	5. TOTAL	DEPTH:		7200	FEET			
	***	6389-6399	6. TUBING	3 SIZE						
5-1/:		7145	SIZE:		CHES	LINED WITH	-t: IP C	505 -	PLASTIC COATING)
			SET IN A:	ARROW SET	1-XS, F	PKR	PACKER AT:		6320 FEET:	
OTHER D	ATA									
A.	IS THIS A NE	WWELL DRILLED FOR I	NJECTION?	YE	ES	X	NO			
	IF NO, FOR	MHAT PURPOSE WAS TH	IE WELL ORIG	SINALLY DRILLEC)?		PRODUCING	OIL AN	ID GAS WELL	
	<u> </u>				···					
В.	NAME THE I	NJECTION FORMATION:		6400' SAND	(BRUSH	Y CANYO	N)			
C.		FIELD OR POOL (IF APPL	ICABLE)	LI	USK WES	ST (DELA	WARE)			
D.		ELL EVER BEEN PERFOR SACKS OF CEMENT OR				L SUCH PEF	RFORATED INTER	VALS AN	D GIVE PLUGGED	
										
E.	GIVE THE N	AME(S) AND DEPTH(S) C	F ANY OVER	OR UNDERLYING	OIL OR G	AS ZONES I	IN THIS AREA:			······································
	1. YATES	2600'-2800'	WATKINS	S YATES K YATES		5. STRAV	NN 11000'-112	00'	LUSK STRAWN O)IL
			S. LUSK			6. ATOKA	A 11200'-11400)'	LUSK ATOKA GA	s
	2. DELAW	ARE 4600'-7100'		DELAWARE		7. MORR	OW 11500'-12	000'	LUSK MORROW	
	0.50::-	annina accessor		LAWARE					N.W. LUSK MORE N. LUSK MORRO	
	3. BONE	SPRING 8200'-8950'		S BONE SPRII ONE SPRING	NG	-			FORM C-108	
			S. LUSK	BONE SPRING		<u>.</u>		APPL	SECTION III ICATION FOR AUTHOR TO INJECT	RIZATION
	4. WOLF	CAMP 10100'-10700				-			Parker & Parsley Development L.P. WATER INJECTION WI	=
				WOLFCAMP (WOLFCAMP (-			TAILA HIJECTION WI	

7 SED INJECTION WELL DATA SHEFT

)PERATOR:		r & Parsley opment L.P.			LEASE:	SOUTHER	RN CAILFORNIA	FEDERA	L	
WELL NO	12	1980' FEL 8	8 660' FSL		SEC-29		T-19-S	R-3	32-E	
		FOOTAGE LO			SECTION	······································	TOWNSHIP	RAI	NGE	
SCI	HEMATIC					WELL CO	NSTRUCTION D	ATA		
			1. SUFACI	E CASING						
			SIZE:	13-3/8	INCHES	CEMEN	ITED WITH:	 	675	sx
13-3/8"		850'	TOC:	Surface		FEET DETER	RMINED BY:	Cir	culated	
						-				
				IIDIATE CA			-			
									775	
8-5/8"	4	050'		8-5/8		=	ITED WITH:			SX
		•	TOC:	Surface		FEET DETER	RMINED BY:	Cir	culated	
		,	HOLE SIZE:		11		INCHES			
			3. LONG S	STRING						
			SIZE:	5-1/2	INCHES	S CEMEN	NTED WITH:		1265	sx
			TOC:	Surface		FEET DETE	RMINED BY:	Cir	culated	
		,	HOLE SIZE:		7-7/8	3	INCHES			
							FEET TO:	64	.50 FEET	
	⊠ ⊠ PKR		4. INOLO1	ION INTER	(PERFORAT	ED OR OPEN	HOLE; INDICATE			
	S S PKR 6360)' ⁻			P	ERFORAT	ED			
	1841 DED:	FS '-6450'	5. TOTAL	DEPTH:		7200	_FEET			
	6425		6. TUBING	SIZE			•			
5-1/2"	7200	•	SIZE:	2-7/8	INCHES	LINED WITH	H: IPC	505 - PL	ASTIC COATING	3
į			SET IN A:	ARROWS	SET 1-XS,	PKR	PACKER AT:	63	360 FEET:	
OTHER DATA	A									
A. IS	THIS A NEW WEL	DRILLED FOR IN	JECTION?	X	YES		NO			
IF I	NO, FOR WHAT P	URPOSE WAS THE	WELL ORIG	SINALLY DRIL	LED?		N/A			
B. NA	ME THE INJECTION	ON FORMATION:		6400' SAN	ND (BRUSI	HY CANYO	N)			
C. NA	ME THE FIELD O	R POOL (IF APPLIC	ABLE)		LUSK W	EST (DELA	WARE)			
D. HA	Č S THE WELL EVE	R BEEN PERFORA	TED IN ANY	OTHER ZON	E(S)? LIST A	LL SUCH PER	RFORATED INTERVA	ALS AND G	IVE PLUGGED	
		OF CEMENT OR F			NO		· · · · · · · · · · · · · · · · · · ·			
		···		·						
E. GIV	VE THE NAME(S)	AND DEPTH(S) OF	ANY OVER	OR UNDERLY	ING OIL OR	GAS ZONES	IN THIS AREA:			
<u>1.</u>	YATES 2600'	2800'	WATKINS		_	5. STRAV	WN 11000'-1120	0' LI	JSK STRAWN C	OIL
			N.E. LUSK		-	6. ATOK	A 11200'-11400'	լլ	USK ATOKA GA	ıs
2.	DELAWARE 4	1600'-7100'	W. LUSK	DELAWAR	ŀΕ	7. MORR	ROW 11500'-120	00' L	USK MORROW	GAS
			LUSK DE	LAWARE	_			-	.W. LUSK MORI . LUSK MORRO	
<u>3.</u>	BONE SPRIN	3 8200'-8950'		S BONE SP					FORM C-108	
			S. LUSK	BONE SPR	ING			APPLICA	SECTION III TION FOR AUTHOR	RIZATION
		404551		BONE SPR					TO INJECT Parker & Parsley	
<u>4.</u>	WOLF CAMP	10100'-10700'	E. LUSK	WOLFCAM	ĪP OIL				Development L.P. TER INJECTION WI SLATION OF WELL	ELL.
			STUSK	WOLFCAM	IP OII			IADU	WITHOUT OF ITELL	~~10

PPC OSED INJECTION WELL DATA SHEET

Parker & Parsley Parker & Parsley
Development L.P.

OPERATOR:	Development L.F		LEASI	: S. A. BC	WMAN FEDERAL		
WELL NO	5 2310' FSL	& 2160' FWL	SEC-29)	T-19-S	R-32-E	
	FOOTAGE L	OCATION	SECTION	1	TOWNSHIP	RANGE	
		4 0054050		WELL C	CONSTRUCTION DA	TĄ	
		1. SUFACE C	ASING				
11-3/4"	895	SIZE:	11-3/4 INCI	ES CEM	ENTED WITH:	1000	<u>sx</u>
11-3/4"	093	тос: St	urface	FEET DET	TERMINED BY:	Circulated	
			14-3/4				
		2. INTERMID	IATE CASING				
8-5/8"	3796'	SIZE:	8-5/8 INCI	IES CEM	ENTED WITH:	1400	sx
		тос: Sı	urface	FEET DET	TERMINED BY:	Circulated	
		HOLE SIZE:	11		INCHES		
		3. LONG STF		W			
		SIZE:	5-1/2 INC	HES CEM	ENTED WITH:	1610	<u>sx</u>
		TOC: S	urface	FEET DE	TERMINED BY:	Circulated	
		HOLE SIZE:	7-	7/8	INCHES		
		4. INJECTIO	N INTERVAL	6431	FEET TO:	6446 FEET	
	⊠ ⊠ PKR@		-	RATED OR OP	PEN HOLE; INDICATE W	нісн)	
	6360'						
	B 6424164461 .	5. TOTAL DE	PTH:	6850	FEET		
		6. TUBING S	IZE				
5-1/2"	6850'	SIZE:	2-7/8 INCHES	LINED W	тн: IPC 50	05 - PLASTIC COATING	
:		SET IN A: A	RROW SET 1-X	S, PKR	PACKER AT:	6360 FEET:	
OTHER DATA							
A. IS TH	HIS A NEW WELL DRILLED FOR I	NJECTION?	YES	X	NO		
IF NO	O, FOR WHAT PURPOSE WAS TH	E WELL ORIGINA	ALLY DRILLED?		PRODUCING OIL	L AND GAS WELL	
							
B. NAM	RE THE INICATION FORMATION.		400' SAND (BRU	ICHY CANY	(ON)		
	IE THE INJECTION FORMATION:						
C. NAM	IE THE FIELD OR POOL (IF APPL)	CABLE)	LUSK	WEST (DEL	AWARE)		
	THE WELL EVER BEEN PERFOR [AIL, I.E. SACKS OF CEMENT OR		HER ZONE(S)? I.IS NONE		PERFORATED INTERVAL	S AND GIVE PLUGGED	
E. GIVE	E THE NAME(S) AND DEPTH(S) O	E ANY OVER OR	UNDERLYING OU	OB CAS ZONE	CO IN THIS ADEA.		
<u>1. Y</u>	'ATES 2600'-2800'	N.E. LUSK Y	'ATES	5. STR.	AWN 11000'-11200'	LUSK STRAWN OIL	,
		S. LUSK YA	TES	6. ATO	KA 11200'-11400'	LUSK ATOKA GAS	
2. [DELAWARE 4600'-7100'	W. LUSK DE LUSK DELA		7. MOF	RROW 11500'-12000		
<u>.</u> -	OUR OPPING SEES.						
<u>3. E</u>	BONE SPRING 8200'-8950'		ATKINS BONE SPRING ISK BONE SPRING			FORM C-108	
		S. LUSK BO	NE SPRING			SECTION III	TION
			NE SPRING			TO INJECT Parker & Parsley	
<u>4. V</u>	WOLF CAMP 10100'-10700		CAMP OIL			6446 FEET WHICH) 505 - PLASTIC COATING 6360 FEET: DIL AND GAS WELL O' LUSK STRAWN OIL LUSK ATOKA GAS N.W. LUSK MORROW GAS N.W. LUSK MORROW GAS N. LUSK MORROW GAS	
			DLFCAMP OIL				

TEXACO INC.				NEW MEXICO	O "CR" STATE		<u>-</u>
PERATOR				LEASE		***	
4 WELL NO.					T-19-S TOWNSHIP	R-32-E RANGE	
TYPE OF WEL	L: DRY HOLE	330' FNL & 1662' FWL SEC-32 T-19-S R-32-E FOOTAGE LOCATION SECTION TOWNSHIP RANGE					
SCHEMA	пс	1. SUFAC	E CASING	I	BULAR DATA		
		SIZE:	11-3/4	INCHES	CEMENTED WITH:	1000	sx
		TOC:	Surface	FE	ET DETERMINED BY:	Circula	ted
11-3/4"	950"	HOLE SIZE:		17-1/2	INCHES		
	11 1122391	2. INTER	MIDIATE CA	ASING			
	30 SYS CMT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2200	sx
	- 121 i23	TOC:	Surface	F6	ET DETERMINED BY:	Circula	ted
		HOLE SIZE:		12-1/4	INCHES		
8-5/8"	3800'	3. LONG	STRING				
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	1600	sx
8-5/8"		TOC:	Surface	FE	ET DETERMINED BY:	Circula	ted
		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	. DEPTH:	6863	FEET		
		5. PERFO	PRATIONS	-	FEET TO: OR OPEN HOLE; INDIC	6446 ATE WHICH)	FEET
		LIST A	LL SUCH P	VER BEEN PE ERFORATED	ERFORATED" ERFORATED IN ANY INTERVALS AND G T OR PLUG(S) USE	IVE PLUGGED	NONE
				انده 2 **			
						FORM C-108 SECTION VI	
					APPL	ICATION FOR AUTHOR TO INJECT	IZATION
						Parker & Parsley Development L.P.	• •
						WATER INJECTION WE	ill
5-1/2"	6863'				т	ABULATION OF WELL I	ATA

UL E. HASKINS RATOR			SHELL FEDERAL LEASE						
CATOR				LEASE					
1		& 600' FEL		SEC-30					
WELL NO.	FOOTAGE LO	OCATION		SECTION	TOWNSHIP	RANGE			
TYPE OF WELL:	DRY HOLE			-	SPUD DATE:	2/25/71			
SCHEMATIC		1 SUFAC	E CASING		TABULAR DATA				
	@ SURFACE	SIZE.	10-3/4	INCHES	CEMENTED WITH:	50			
		TOC:	Surface	·	FEET DETERMINED BY:	Circulated			
		HOLE SIZE:		17-1/2	INCHES				
		2. INTERN	MIDIATE CA	ASING					
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A			
		TOC:	N/A		FEET DETERMINED BY:	N/A			
		HOLE SIZE:		N/A	· INCHES				
		3. LONG	STRING						
)-3/4" — — — — — — — — — — — — — — — — — — —	320'	SIZE:	8-5/8	INCHES	CEMENTED WITH:	N/A			
	@ 540'-565'	TOC:	N/A		FEET DETERMINED BY:	N/A			
		HOLE SIZE:		11	INCHES				
		4. TOTAL	DEPTH:	3508					
	@ 1150'-1050'	5. PERFO	RATIONS						
				N/A (PERFORATE	FEET TO:	N/A FEET			
		PERFORATED" 6. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S)? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGED							
					ENT OR PLUG(S) USE		N /A		
	@ 2250'-2350'			<u>مي</u> د 					
						FORM C-108 SECTION VI			
55.55 55.55					APPLICA	TION FOR AUTHORIZA	TION		
						Parker & Parsley Development L.P.			
100 mm	@ 2660'-2760'				WA	TER INJECTION WELL			
	_				TABL	LATION OF WELL DAT	Ά		

EXACO INC				SA BOWM	AN FEDERAL		
ERATOR				LEASE			
4	990' FSL & 1	659' FEL		SEC-29	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOC		-	SECTION	TOWNSHIP		
TYPE OF WELL:	PLUGGED 8	ABANDONI	ED	-	SPUD DATE:	12/8/87	
SCHEMATIC		1. SUFAC	E CASINC		TABULAR DATA		
		SIZE:	11-3/4	INCHES	CEMENTED WITH:	1000	
11-3/4"	928*	TOC:	Surface	·	FEET DETERMINED BY:	Circulated	
	323	HOLE SIZE:		14-3/4	INCHES		
		2. INTERN	MIDIATE CA	ASING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	1800	SX
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
8-5/8"	842'	HOLE SIZE:	 -	11	INCHES		
	042	3. LONG	STRING				
		\$IZE:	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		
225 296		5. PERFO	RATIONS		•		
	•			(PERFORATE	6428 FEET TO:	6139 FEET	
		6 114 G T 1			PERFORATED"		
					PERFORATED IN AN' D INTERVALS AND G		
					ENT OR PLUG(S) USE		
	0.47						
(4)	CMT IP @ 6300'	 		}			
			 -			FORM C-108	
E91 154	RFS 18'-6139'					SECTION VI	
<u> </u>	CMT				APPLICA	TION FOR AUTHORIZATION TO INJECT	
	BP @ 6650' 850'					Parker & Parsiey Development LP.	
					WA	TER INJECTION WELL	

TEXA	CO INC.		FEDERAL USA	\ "J"		
		990' FSL & 660' FEL		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	1. SUFACE CAS		BULAR DATA		
		SIZE: 13-	3/8 INCHES CEM	IENTED WITH:	300	sx
	809	тос: Surfa	ace fee	T DETERMINED BY:	Circulated	
13-3/8"	809		17-1/2	INCHES		
	809	2. INTERMIDIAT	E CASING			
		SIZE: 8-5	5/8 INCHES CEM	ENTED WITH:	1810	sx
	3703	тос: Surf	ace FEE	T DETERMINED BY:	Circulated	
			12-1/4	INCHES		
8-5/8	3703	3. LONG STRING	G			
	3703	SIZE: 4	1/2 INCHES CEM	IENTED WITH:	600	sx
		TOC:	2780 FEE	T DETERMINED BY:	Calculated	
		HOLE SIZE:	7-7/8	INCHES		
		4. TOTAL DEPT	H:11300	FEET		
		5. PERFORATIO	ONS 6381	FEET TO:	6386 FEE	T
				R OPEN HOLE; INDICATE "PERFORATED"		
						4
			ئى.∢ ئىد		M C-108	
	PERFS 6381'-				CTION VI	
	PERFS 6381'- 6				OR AUTHORIZATION INJECT	I
		799'			& Parsley pment L.P.	
4	11296			Develo	buteur mit .	

OLD PERFS 11204'-11252'

WATER INJECTION WELL

	ACO INC.			FEDERAL	USA "I"		
OPERA	TOR			LEASE			
	1	660' FNL & 660' FEL		SEC-31	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSH		
	TYPE OF WELL:	PRODUCING OIL AN	D GAS WEI	L	SPUD DA	TE: 4/26/	64
	SCHEMATIC SAME	1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	350	SX
	896	TOC:	Surface	-	FEET DETERMINED BY	c Circula	ited
13-3/8"	896.	HOLE SIZE:	4	17-1/2	INCHES		
		2. INTERN	MIDIATE CA	SING			
	37/06	SIZE:	8-5/8	INCHES	CEMENTED WITH:	400	sx
		TOC:	Surface		FEET DETERMINED BY	c Circula	ited
		HOLE SIZE:		12-1/4	INCHES		
8-5/8	3706	3. Long s	STRING			•	
		SIZE	5-1/2	INCHES	CEMENTED WITH:	1600	sx
		TOC:	2780		FEET DETERMINED BY	Calcula	ted
		HOLE SIZE:		7-7/8	INCHES		
	3706	4. TOTAL	DEPTH:	6981	FEET		ŧ
		. 5. PERFO	RATIONS	6682	FEET TO:	6727	FEET
				(PERFORATE	ED OR OPEN HOLE; IN "PERFORA		
	TBG @	6472'		چود تنده		FORM C-108 SECTION VI	
	TBG @ PERFS 6682-67:				APPLICA	TION FOR AUTHORIZ TO INJECT	ATION
5.	-1/2 6951'					Parker & Parsley Development L.P.	

WATER INJECTION WELL TABULATION OF WELL DATA

		- ,						
TEXA	ACO INC.			FEDERAL	USA "J"			
OPERA				LEASE				
	2	660' FSL & 385' FEL		SEC-30	T-19-S	R-3	2-E	
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RAN	IGE	
	TYPE OF WELL:	PRODUCING OIL AN	ID GAS WE	LL	SPUD DATE:		7/3/93	
	SCHEMATIC				TABULAR DATA			
		1. SUFAC	E CASING					
		SIZE:	11-3/4	INCHES	CEMENTED WITH:		560	sx
11-3/4"	850	TOC:	Surface		FEET DETERMINED BY:	Cir	culated	
11-0-				17-1/2	INCHES			
		2. INTER	MIDIATE CA	SING				
		SIZE:	8-5/8	INCHES	CEMENTED WITH:		2655	s x
		TOC:	Surface		FEET DETERMINED BY:	Cir	culated	
		HOLE SIZE:		12-1/4	INCHES			
8-5/8	5	3. LONG	STRING				•	
		SIZE.	5-1/2	INCHES	CEMENTED WITH:		900	sx
		TOC:	3420		FEET DETERMINED BY:	Cald	culated	
		HOLE SIZE:		7-7/8	INCHES			
		4. TOTAL	DEPTH:	7229	FEET			
		5. PERFO	RATIONS					
				6638	FEET TO: ED OR OPEN HOLE; INDI	7102	FEET	
				(r Eld Olor)	"PERFORATI			
				بىرە بىرە		FORM C-108		
					•	SECTION VI		

TBG@ 7003

6638'-7102"

PERFS

7229'

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

TEX.	CO INC.				FEDERAL	USA "J"		
OPERA	TOR				LEASE			
	2		1090' ESI 2 230' EEI		SEC 30	T-19-S	D.32.E	
	WELL NO.		FOOTAGE LOCATION		SECTION	TOWNSHIP		
	TYPE OF WELL:		PRODUCING OIL AN	D GAS WE	<u> </u>	SPUD DATE:	6/26/94	
	SCHEMATIC	;				TABULAR DATA		
			1. SUFAC	E CASING				
			SIZE:	11-3/4	INCHES	CEMENTED WITH:	650	sx
44.00.00			TOC:	Surface	·····	FEET DETERMINED BY:	Circulated	
11-3/4"		850	HOLE SIZE:		17-1/2	INCHES		
				MIDIATE CA				
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	2075	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
		A120°	HOLE SIZE:		12-1/4	INCHES		· · · ·
8-5/8	•	4120	3. LONG					
	122 254		art.	E 100		OCHENTED MATE	450	614
•			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. PERFO	RATIONS				
					6639		7088 FEET	
					(PERFORAT	ED OR OPEN HOLE; INDIC PERFORATE		
•						. 2 2.0		
					<u>ن</u> د د			
					ئے۔ سے		FORM C-108	
	11						SECTION VI	
		PERFS 6639'-708	8'			APPLICATIO	ON FOR AUTHORIZATION TO INJECT	
						Pa	rker & Parsley	
. 5	-1/2"	7200					velopment L.P.	
						WATE	R INJECTION WELL	

NCAID & WATSON	DRILLING	<i>.</i>			AN FEDE. AL	·	····
STATUR				LEASE			
1	330' FSL 8			SEC-29		R-32-E	
WELL NO.	FOOTAGE L	OCATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PLUGGE	& ABANDON	ED	•	SPUD DATE:	8/15/57	<u>. </u>
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
	10 SXS CMT @ SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	500	s
		TOC:	Surface		FEET DETERMINED BY:	Circulated	!
		HOLE SIZE:		11	INCHES		
		2. INTERM	MIDIATE CA	SING			
	·	SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	<u>-</u>
		TOC:	N/A		FEET DETERMINED BY:	N/A	
		HOLE SIZE		N/A	INCHES		
		3. LONG	STRING				
8-5/8"	880'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	600	s
8-5/8"		TOC:	250		FEET DETERMINED BY:	Temp. Surve	<u>ay</u>
		HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH:	2770	FEET		
		5. PERFO	RATIONS	24 93	FEET TO:	2567	FEET
	-	LIST A	LL SUCH P	(PERFORATION OF THE PERFORATE PERFORATE	ED OR OPEN HOLE; INDIC. PERFORATED" PERFORATED IN ANY ED INTERVALS AND GI ENT OR PLUG(S) USE	OTHER ZONE(S)?	NONE
	CMT PLUG @ 2500'-2690'		-, onor				110112
	G			1.3			

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL
TABULATION OF WELL DATA

TEXAC	O INC				BOWMAN			
OPERATO					LEASE	•		
	1	2310' FNL 8	2310' FWL		SEC-29	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LO			SECTION	TOWNSHIP	RANGE	
1	YPE OF WELL:	PLUGGED	& ABANDON	ED	<u>.</u> .	SPUD DATE:	10/10/67	
	SCHEMATI	С	4 00.510	5		TABULAR DATA		
			1. SUFAC	E CASING				
٠		20'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	. 500	\$X
		CUT 8-5/8" CSG 100' TO SURFACE	TOC:	Surface		FEET DETERMINED BY:	Circulated	<u> </u>
			HOLE SIZE:		11	INCHES		•
			2. INTERN	MIDIATE CA	ASING	-		-
		233	SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
			TOC:	N/A		FEET DETERMINED BY:	N/A	
			HOLE SIZE:	<u> </u>	N/A	INCHES		
			3. LONG	STRING				
8-5/8"	-	880'	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 PERFO	RATIONS				•
			V 2		2628	FEET TO:	F	EET
					(PERFORAT	ED OR OPEN HOLE; INDI- PERFORATED"	CATE WHICH)	•
			6. HAS TI	HE WELL E	VER BEEN	PERFORATED IN AN	Y OTHER ZONE(S)?	
•						ED INTERVALS AND C		****
		CMT PLUG	DETAIL	-, I.E. SACI	NO OF CEM	ENT OR PLUG(S) US	<u> </u>	N/A
		@ 2250'-2350'						
					3.2±		 ,	
							FORM C-108 SECTION VI	
				•		APP	LICATION FOR AUTHORIZAT	ΠΟΝ
		CMT PLUG @ 2580'-2680'					Parker & Parsley Development L.P.	

WATER INJECTION WELL TABULATION OF WELL DATA

Parker & Parsley	*				~·.		•,
Development L.P.				SOUTHER	N CALIFO. WIA FEDE	ERAL	
OPERATOR				LEASE			
3	1980' FSL & 1	D80' E14#		SEC-29	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOCA			SECTION	TOWNSHIP		
TYPE OF WELL:	PLUGGED &	ABANDONI	ED	-	SPUD DATE: _	10/24/63	
SCHEMATIC					TABULAR DATA		
		1. SUFAC	E CASING				
	95' CMT @ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	600	
	3 0014 A02	CILL.	10-0/0	INONES	. CEMENTED WITH	000	sx
	75 SXS CMT	TOC:	Surface		FEET DETERMINED BY:	Circulated	
	@ 711'-811'						
13-3/8"	899	HOLE SIZE:		17-1/2	INCHES		
	SIDE TRACKED	2. INTERN	MIDIATE CA	SING			
	ON RE-ENTRY @ 2100'-2373'						
	@ 2100-2373	SIZE:	8-5/8	INCHES	CEMENTED WITH:	1700	şx_
	150 SXS CMT	тос:	Surface		FEET DETERMINED BY:	Circulated	
	@ 2175'-2304'						
		HOLE SIZE:		11	INCHES		
	25 SXS CMT @ 4490'	3. LONG S	STRING				
8-5/8"	4604'						
		SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	
	-1/2" STUB SXS CMT	TOC:	10100		FEET DETERMINED BY:	Temp. Survey	
	4700'					10p. 04.10	
	7	HOLE SIZE:		7-7/8	INCHES		
		4. TOTAL	DEPTH-	11406	FEET		
	,		J				
		5. PERFO	RATIONS			44848	
4			•	11330	FEET TO:	11340 FEET	
				(L	PERFORATED"		
						IY OTHER ZONE(S)?	
					ED INTERVALS AND ENT OR PLUG(S) US		
				غية			

						FORM C-108	
	١,					SECTION VI	
	W				APPLIC	ATION FOR AUTHORIZATION TO INJECT	ı
	25 SXS CMT						
	PERFS					Parker & Parsley Development L.P.	
	1330'-11340'				w	ATER INJECTION WELL	
4-1/Z							
4-1/2	11406'				TAB	ULATION OF WELL DATA	

TEXA	CO INC.				NEW MEX	ICO "CR" STATE	•	
OPERA"	TOR				LEASE			
	1	660' FN	L & 660' FWL		SEC-32	T-19-S	R-32-E	
	WELL NO.		E LOCATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PRODU	ICING OIL AN	ID GAS WE	LL	SPUD DATE:	7/3/90	
	SCHEMATIC SERVICE SERV	N KA	1. SUFAC	E CASING		TABULAR DATA		
			SIZE:	11-3/4	INCHES	CEMENTED WITH:	600	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
11-3/4"		925	HOLE SIZE:		17-1/2	INCHES		
			2. INTER	MIDIATE CA	ASING			
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	600	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
			HOLE SIZE:		12-1/4	INCHES		
8-5/8		§ 3900'	3. LONG	STRING				
			SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	sx
			TOC:	6400		FEET DETERMINED BY:	Calculated Cmt Sqz Perfs & Leaks	\
			HOLE SIZE:	WILLY	7-7/8	INCHES		
		, ,	4. TOTAL	DEPTH:	11500	FEET		
	229 : /1 229		5. PERFO	RATIONS				
					11256 (PERFORAT)	FEET TO:		ET
					(1 2 3 3 5 7 1	· "PERFORATE		
				·				
				-	بير بير س		FORM C-108 SECTION VI	
		TBG@ 9400'						
		PERFS 11256'-11304'				APPLICATION	ON FOR AUTHORIZATIO TO INJECT	'N
		. •	· ma			Pa	rker & Parsley	•
4	-1/2"	11495'				De	relopment L.P.	
						WATE	R INJECTION WELL	

Parker & Parsley

Development L.P. SOUTHERN CALIFORNIA FEDERAL **OPERATOR** LEASE SEC-29 660' FWL & 1980' FSL T-19-S R-32-E FOOTAGE LOCATION SECTION WELL NO. TOWNSHIP RANGE TYPE OF WELL: PRODUCING OIL AND GAS WELL ___ SPUD DATE: 7/21/96 SCHEMATIC TABULAR DATA 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: 675 SX Surface TOC: FEET DETERMINED BY: Circulated 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: 1325 TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 11 INCHES 8-5/8" 3. LONG STRING _____1265 sx SIZE: 5-1/2 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 7210 FEET 5. PERFORATIONS FEET TO: 6400 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED"

شدد تد د

TBG@ 6500°

PERFS

5-1/2"

6391'-6400'

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

> Parker & Parsley Development L.P.

WATER INJECTION WELL

TABULATIONS OF WELL DATA SECTION VI

YATE	S HARVEY E			_	LUSK "16"	STATE		
OPERAT	OR				LEASE			
					SEC-16	T-19-S		
	WELL NO.	FOOTAGE L	OGATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	DRY HOLE	<u> </u>	· • · · · · · · · · · · · · · · · · · ·	-	SPUD DATE:	7/30/8	9
	SCHEMATIC	}	1. SUFAC	E CASING		TABULAR DATA	·	
		10 SXS CMT 100'-SURFACE	SIZE:	9-5/8	INCHES	CEMENTED WITH:	500	sx
			TOC:	Surface	· · · · · · · · · · · · · · · · · · ·	FEET DETERMINED BY:	Circula	ted
			HOLE SIZE		11	INCHES		
			2. INTERI	MIDIATE C	ASING			
		3	SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	S×
			TOC:	N/A		FEET DETERMINED BY:	N/A	
			HOLE SIZE	:	N/A	INCHES		
9-5/8"		450*	3. LONG	STRING				
<i>5-0</i> 10			SIZE:	5-1/2	INCHES	CEMENTED WITH:	• 3475	sx
			TOC:	Surface	!	FEET DETERMINED BY:	Circula	ted
			HOLE SIZE	:	7-7/8	INCHES		
		25 SXS CMT 688'-938'	4. TOTAL	DEPTH:	6600	FEET		
-			5. PERFO	PRATIONS				
	CBP				-	FEET TO: D OR OPEN HOLE; INDIC PERFORATED"	6506 ATE WHICH)	FEET
		25 SXS CMT			VER BEEN	PERFORATED IN ANY		
		2526'-2776'				D INTERVALS AND G ENT OR PLUG(S) USE		NONE
					فجو			
	CBP	50 SXS CMT CIBP @ 4800'					5004.040	
	Gar						FORM C-108 SECTION VI	
						APPL	ICATION FOR AUTHOR TO INJECT	IZATION
		50 SXS CMT					Parker & Parsley Development L.P.	
							WATER INJECTION WE	LL
5 -1.	/2	CIBP @ 6475'				Т	ABULATION OF WELL [)ATA

	~						
KERSEY & CO.	*			ATLANTIC			
OPERATOR				LEASE			
. 1	16:	50' FSL & 990	r FWL	SEC-21	T-19-S	R-32-E	
WELL NO.		OTAGE LOCATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	DR	Y HOLE		-	SPUD DATE:	9/18/5	9
SCHEMATIC					740W 40 0474		
CEMENT MARKER	?	1. SUFAC	E CASING		TABULAR DATA		•
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	60	sx
	,	TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	l
		HOLE SIZE:		UNKNOWN	INCHES		
		2. INTERI	MIDIATE CA	ASING			
	FILLED WITH MUD	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	
8-5/8"	917	HOLE SIZE:		N/A	INCHES	•	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	10 SXS CMT, PLUG	4. TOTAL	DEPTH:	2710	FEET		
	-	5. PERFC	RATIONS		• •		
				N/A	FEET TO:	N/A	FEET
				•		·	
					PERFORATED IN ANY ED INTERVALS AND G		
					ENT OR PLUG(S) USE		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CILLED MATHEMAN			·	N/A		
	FILLED WITH MUD						
				/ _~ .			

10 SXS CMT, PLUG

FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

TEXA	CO INC.				NEW MEXI	CO "CR" STATE		
OPERAT	OR				LEASE			
	4	330' FNL & 1	662' FWL		SEC-16	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	DRY HOLE			•	SPUD DATE:	11/16/87	<u> </u>
	SCHEMATIC	C	1. SUFAC	E CASING		TABULAR DATA		
		8 SXS CMT 50' TO SURFACE	SIZE:	11-3/4	INCHES	CEMENTED WITH:	1000	sx
			тос:	Surface		FEET DETERMINED BY:	Circulate	ed
11-3/4"		950'	HOLE SIZE:		17-1/2	INCHES		
•		25 SXS CMT 810'-1060'	2. INTER	VIIDIATE CA	SING			
		as SVS SWT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2200	sx
		30 SXS CMT 2150'-2440	TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
			HOLE SIZE:		12-1/4	INCHES		
8-5/	8"	3800'	3. LONG	STRING				
	24		SIZE:	5-1/2	INCHES	CEMENTED WITH:	1600	sx
			TOC:	Surface	 	FEET DETERMINED BY:	Circulate	ed
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	. DEPTH:	6863	FEET		
			5. PERFO	RATIONS		_		
					6442	FEET TO: ED OR OPEN HOLE; INDIC	6446	FEET
					•	PERFORATED"	ATE WHICH)	
						PERFORATED IN ANY D INTERVALS AND G		
						ENT OR PLUG(S) USE		NONE
					عدو			
							FORM C-108 SECTION VI	
						APPL	ICATION FOR AUTHORI TO INJECT	ZATION
							Parker & Parsley Development L.P.	
							WATER INJECTION WEI	ı.
	5-1/2"	6863				τ.	ABULATION OF WELL D	ATA `

	<u> </u>				y tea		
CULBERTSON-IRWIN IN	IC.			LYNCH			·
OPERATOR				LEASE			
4	660' FSL & 66	O' FEL		SEC-20	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOCA	NOIT		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	DRY HOLE			-	SPUD DATE:	10/30/43	
SCHEMATIC					TABULAR DATA		
		1. SUFAC	E CASING				
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	UNKNOWN	sx
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN	
		HOLE SIZE:		UNKNOWN	INCHES		
		2. INTER	MIDIATE CA	ASING			
		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. PERFC	RATIONS				
				UNKNOWN	FEET TO UN		FEET
				(PERPURA)	PERFORATED"	CATE WHICH)	
					PERFORATED IN AN		
FROM: DOWNS OIL AND F	RESEARCH				ED INTERVALS AND G ENT OR PLUG(S) USE		D
1424 PAIGE							
HOBBS, N.M. , 882	40				UNKNOWN		
WELLS DRILLED BACK	IN THE 1940'S						
THAT WERE ON FEDERAL	LAND WERE					FORM C-108 SECTION VI	
NOT REQUIRED TO FURN	ISH THE OCD				APPLICA	TO INJECT	ORIZATION
WITH COPIES OF THE PU	GGING LOG.					Parker & Parsie	y

SO ALL THAT IS AVAILABLE IS THE

INFORMATION ON THE SCOUT TICKET.

WATER INJECTION WELL

IL E. HASKINS ATOR				SHELL FEI	DERAL		
	10051 501	A 4001 EE1			- 12 -		
WELL NO.	1980 FSL FOOTAGE L	& 600' FEL		SEC-30	T-19-S TOWNSHIP	R-32-E RANGE	
TYPE OF WELL:	DRY HOLE	<u> </u>		_	SPUD DATE:	2/25/71	
SCHEMATIC					TABULAR DATA		
- Sign 1	5 SXS CMT	1. SUFAC	E CASING				
	@ SURFACE	SIZE:	10-3/4	INCHES	CEMENTED WITH:	50	
		TOC:	Surface	· · · · · · · · · · · · · · · · · · ·	FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		17-1/2	INCHES		
		2. INTERN	MIDIATE C	ASING			
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	
		TOC:	N/A		FEET DETERMINED BY:	N/A	
		HOLE SIZE:		N/A	INCHES		
		3. LONG	STRING				
-3/4"	320'	SIZE:	8-5/8	INCHES	CEMENTED WITH:	N/A	
	@ 540'-565'	TOC:	N/A	·	FEET DETERMINED BY:	N/A	
		HOLE SIZE:		11	INCHES		
5/2 2		4. TOTAL	DEPTH:	3508	FEET	.*	
	@ 1150'-1050'	5. PERFO	RATIONS				
				N/A (PERFORATI	FEET TO: ED OR OPEN HOLE; INDI	N/A FEET	
		6. HAS TH	HE WELL E	VER BEEN	PERFORATED" PERFORATED IN AN	Y OTHER ZONE(S)	?
					ED INTERVALS AND G ENT OR PLUG(S) USE		N/A
	-		.,				
	-			* <u>.</u>			
	@ 2250'-2350'	4.					
						FORM C-108 SECTION VI	
					APPLICA	TO INJECT	TION
						Parker & Parsley Development L.P.	

WATER INJECTION WELL

7300

TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

Devel	opment L.F.				LUSK DEE	F ONE A		
OPERAT	OR				LEASE		•	
	3	1650' FNL & 6	60' FWL		SEC-20	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOCA	TION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PLUGGED &	ABANDONI	ED		SPUD DATE:	7/22/6	1
					-			
	COUENATIC					TABULAR DATA		
	SCHEMATIC		1. SUFAC	E CASING		IABULAR DATA		
		10 SXS CMT		42.26			000	
		U SORFACE	SIZE:	13-3/6	INCHES	CEMENTED WITH:	900	SX
			TOC:	Surface		FEET DETERMINED BY:	Circulat	ed
		25 SXS CMT 700'-800'	HOLE SIZE:		17-1/2	INCHES		
13-3/8"		786'	HOLL SIZE.		11-1/2	INCRES		
			2. INTERM	MIDIATE CA	ASING			
			SIZE:	9-5/8	INCHES	CEMENTED WITH:	2730	sx
		25 SXS CMT				•		
		2400'-2500'	TOC:	Surface		FEET DETERMINED BY:	Circulat	ed
			HOLE SIZE:		12-1/4	INCHES		
		35 SXS CMT	3. LONG	STRING				
9-5/8		4412'-4552' 4552'						
			SIZE:	5-1/2	INCHES	CEMENTED WITH:	382	sx
			TOC:	10605		FEET DETERMINED BY:	Temp. Su	rvey
		25 SXS CMT	1101 5 0175		7 7/0			
		5300'-5400'	HOLE SIZE:		1-1/0	INCHES		
		STUB 5" CSG @ 5400"	4. TOTAL	DEPTH:	12623	FEET		
			5. PERFO	RATIONS			·	
					11310	FEET TO:	12390	FEET
						ED OR OPEN HOLE; INDIC PERFORATED"	ATE WHICH)	
					VER BEEN	PERFORATED IN ANY	• -	
		OPEN HOLE				D INTERVALS AND G ENT OR PLUG(S) USE		NONE
				-,				
					1.2			
				·				
							FORM C-108	•
		CUT 5-1/2" CSG					SECTION VI	
		20 SXS CMT 10920'-11000'				APPI	ICATION FOR AUTHOR	IZATION
	CBP	CIBP @ 11000					TO INJECT	
	335						Parker & Parsley Development L.P.	
	G B B	PERFS @ 11310' - 12390'					WATER INJECTION WE	LL
_		40.400				т	ABULATION OF WELL (JATA
5-1	1/2"	12439'				•		

OPERATOR LEASE 1650' FSL & 990' FWL SEC-20 T-19-S R-32-E FOOTAGE LOCATION SECTION TOWNSHIP RANGE SPUD DATE: 2/11/64 PLUGGED & ABANDONED TYPE OF WELL: SCHEMATIC TABULAR DATA 1. SUFACE CASING 10 SXS CMT @ SURFACE 13-3/8 775 SIZE: INCHES CEMENTED WITH: Surface Circulated TOC: FEET DETERMINED BY: 25 SXS CMT 700'-800' HOLE SIZE: 17-1/2 INCHES 13-3/8" 2. INTERMIDIATE CASING SIZE: 8-5/8 INCHES CEMENTED WITH: 2350 25 SXS CMT Circulated 2400'-2500' Surface FEET DETERMINED BY: TOC: HOLE SIZE: 12-1/4 INCHES 35 SXS CMT 3. LONG STRING 3774'-3874' 8-5/8" 4-1/2 INCHES SIZE: CEMENTED WITH: TOC: 7600 FEET DETERMINED BY: Temp. Survey 25 SXS CMT HOLE SIZE: 7-7/8 INCHES 6300'-6400' STUB 4-1/2" CSG 4. TOTAL DEPTH: 11467 FEET 5. PERFORATIONS FEET TO: (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 OPEN HOLE DETAIL, I.E. SACKS OF CEMENT OR PLUG(S) USED. NONE FORM C-108 CUT 4-1/2" CSG -> SECTION VI 25 SXS CMT APPLICATION FOR AUTHORIZATION 10920'-11000' TO INJECT CIBP @ 11000' Parker & Parsley Development L.P. PERFS @ 11371' - 11422' WATER INJECTION WELL TABULATION OF WELL DATA 4-1/2"

ACKELFORD OIL				LYNCH	··	
RATOR				LEASE		
1	660' FSL & 6	60' FWL		SEC-21	T-19-S	R-32-E
WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE
TYPE OF WELL:	PLUGGED &	ABANDON	NED	-	SPUD DATE:	12/18/41
SCHEMATIC		1. SUFAC	CE CASING		TABULAR DATA	
		SIZE:			CEMENTED WITH:	50
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN
. 2	920'	HOLE SIZE	<u> </u>	UNKNOWN	INCHES	
		2. INTER	MIDIATE C	ASING		
		SIZE:	7	INCHES	CEMENTED WITH:	100
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN
7		HOLE SIZE	<u> </u>	UNKNOWN	INCHES	
		3. LONG	STRING			
7	2696	SIZE:	UNKNOWN	INCHES	CEMENTED WITH:	UNKNOWN
		TOC:	UNKNOWN		FEET DETERMINED BY:	UNKNOWN
		HOLE SIZE	<u></u>	UNKNOWN	INCHES	
		4. TOTAI	L DEPTH:	2751	FEET	
		5. PERF	ORATIONS	UNKNOWN	FEET TO UN	IKNOWN FEET
				·	ED OR OPEN HOLE; INDIC PERFORATED"	
88 1 188					PERFORATED IN AN ED INTERVALS AND G	
ROM: DOWNS OIL AN					ENT OR PLUG(S) USE	
1424 PAIG HOBBS, N.M. , :	-				UNKNOWN	
WELLS DRILLED BAG GAT WERE ON FEDE		-				FORM C-108
OT REQUIRED TO FU					APPLICA	SECTION VI
ITH COPIES OF THE	PUGGING LOG.					TO INJECT Parker & Parsley
O ALL THAT IS AVAIL	LABLE IS THE					Development L.P.

INFORMATION ON THE SCOUT TICKET.

WATER INJECTION WELL

SHACE	KELFORD OI	L			LYNCH			
OPERATO)R				LEASE			
	2	1980' FSL &	660' FWL		SEC-21	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE	
1	TYPE OF WELL:	PLUGGED 8	ABANDON	ED	_	SPUD DATE:	4/11	142
	SCHEMATIC					TARIJI AR DATA		
	SOMEMATIC		1. SUFAC	E CASING		TABULAR DATA	•	
		10 SXS CMT 100'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	50	sx
		10 SXS CMT 100'-SURFACE	TOC:	Surface		FEET DETERMINED BY:	Circul	ated
			HOLE SIZE:		11	INCHES		
			2. INTERI	MIDIATE C.	ASING			
			SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	\$x
			TOC:	N/A		FEET DETERMINED BY:	N/A	
			HOLE SIZE:		N/A	INCHES		
8-5/8°		905'	3. LONG	STRING				
		10 SXS CMT CIBP @ 915'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	100	sx
			TOC:	2400		FEET DETERMINED BY:	Temp. S	urvey
			HOLE SIZE		7-7/8	INCHES		
	CBP		4. TOTAL	DEPTH:	2820	FEET		
			5. PERFC	RATIONS				
					2680 (PERECRAT	FEET TO:	2955	FEET
						PERFORATED"		
						PERFORATED IN AN' ED INTERVALS AND G)?
						ENT OR PLUG(S) USE		NONE
								
					فيغ			
			• •					
							FORM C-108 SECTION VI	
		CUT OFF 5-1/2" CSG @ 2110'				APP	LICATION FOR AUTHO	DRIZATION
		6 SXS CMT					Parker & Parsley	
		GRAVEL FROM TD TO 2525'					Development L.F WATER INJECTION V	
5	-1/2	2795				1	ABULATION OF WELI	L DATA

SHACKELFORD OIL			F	PLAINS FE	DERAL	
OPERATOR			i l	EASE		
4	1930' FSL 8	660' FWL		SEC-21	T-19-S	R-32-E
WELL NO.	FOOTAGE LO			BECTION	TOWNSHIP	RANGE
TYPE OF WELL:	PLUGGED	& ABANDON	ED		SPUD DATE:	9/12/63
					1	
SCHEMATIC					TABULAR DATA	
		1. SUFAC	E CASING			
	25 SXS CMT 35'-SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	725 s.
		TOC:	Surface		FEET DETERMINED BY:	Circulated
13-3/8"	831'	HOLE SIZE:		17-1/2	INCHES	
	150 SXS CMT @723'-930'	2. INTERI	MIDIATE CAS	SING		
		SIZE:	9-5/8	INCHES	CEMENTED WITH:	1000
	2000 SXS CMT	TOC:	Surface		FEET DETERMINED BY:	Circulated
/ //	@2336'-2445'	HOLE SIZE	:	11	INCHES	
	-	3. LONG	STRING			
8 W 9-518- collinger 3779	å 4290'	SIZE:	N/A	INCHES	CEMENTED WITH:	N/A s
occupied		TOC:	N/A		FEET DETERMINED BY:	N/A
779'		HOLE SIZE	:		INCHES	
		4. TOTAL	DEPTH:	11517	FEET	
		5. PERFO	PRATIONS			
			-	N/A PERFORATI	FEET TO:	N/A FEET
			•		PERFORATED"	
	_				PERFORATED IN ANY OTI D INTERVALS AND GIVE I	
	OADED HOLE MITH MUD TO				ENT OR PLUG(S) USED.	NONE
/ II	2445'		 			
				اف.د		
				· · · · · · · · · · · · · · · · · · ·		
						FORM C-108 SECTION VI
					APPLICATI	ON FOR AUTHORIZATION
	·				1	TO INJECT Parker & Parsley
					C	Pevelopment L.P.
						ER INJECTION WELL ATION OF WELL DATA-
	11517					

CULBE	ERTSON-IRW	IN INC.			BOWMAN		÷	
OPERATO)R				LEASE			
	1	660' FNL & 6	60' FWL		SEC-28	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOC	ATION		SECTION	TOWNSHIP	RANGE	
•	TYPE OF WELL:	PLUGGED &	ABANDON	ED	-	SPUD DATE:	2/21	142
	SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
		10 SXS CMT CUT OFF 8-5/8" CSG 100'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH:	50	sx
		100-0014 AGE	TOC:	Surface		FEET DETERMINED BY:	Circul	ated
			HOLE SIZE:		11	INCHES		
			2. INTERI	MIDIATE C	ASING			
			SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	
			TOC:	N/A		FEET DETERMINED BY:	N/A	
	GBP	10 SXS CMT CIBP @ 800'	HOLE SIZE:		N/A	INCHES		
8-5/8		908'	3. LONG	STRING				
- 4.0			SIZE:	5-1/2	INCHES	CEMENTED WITH:	100	sx
			TOC:	2391	. , , , , , , , , , , , , , , , , , , ,	FEET DETERMINED BY:	Temp. S	urvey
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	. DEPTH:	2811	FEET		
			5. PERFC	RATIONS			•	
						FEET TO: D OR OPEN HOLE; INDIC PERFORATED"	2955 ATE WHICH)	FEET
			LIST A	LL SUCH F	VER BEEN I	PERFORATED IN ANY D INTERVALS AND G ENT OR PLUG(S) USE	IVE PLUGGED)?
						···		
•							FORM C-108 SECTION VI	
		CUT OFF 5 100 CSC				APPL	ICATION FOR AUTHO	DRIZATION
		CUT OFF 5-1/2" CSG @ 2200'					Parker & Parsley Development L.F	
		CMT PLUG @ 2762'-2700'		•			WATER INJECTION V	
	5-1/2	2762				т.	ABULATION OF WELL	L DATA

TEXACO INC					BOWMAN			
OPERATOR					LEASE			
1	<u> </u>	2310' FNL &	2310' FWL		SEC-29	T-19-S	R-32-6	:
WELL	NO.	FOOTAGE LOC	CATION		SECTION	TOWNSHIP	RANGE	
TYPE OF V	WELL:	PLUGGED 8	ABANDON	IED	-	SPUD DATI	E:10/1	0/67
SCHE	MATIC		1. SUFAC	E CASING		TABULAR DATA		
	7 .	20'-SURFACE	SIZE:	8-5/8	INCHES	CEMENTED WITH	н: 500	s
		CUT 8-5/8" CSG 100' TO SURFACE	TOC:	Surface	·	FEET DETERMINED BY:	Circu	lated
			HOLE SIZE:	:	11	INCHES		
			2. INTERI	MIDIATE CA	ASING			
			SIZE:	N/A	INCHES	CEMENTED WITH	H: <u>N/A</u>	s
			TOC:	N/A		FEET DETERMINED BY:	N/A	
			HOLE SIZE	·	N/A	INCHES		
			3. LONG	STRING				
8-5/8"		880'	SIZE:	5-1/2	INCHES	CEMENTED WITH	H:	0 s:
8-5/8*			TOC:	Surface	·	FEET DETERMINED BY:	Circu	lated
			HOLE SIZE:	:	7-7/8	INCHES		
			4. TOTAL	DEPTH:	2770	FEET		
			5. PERF	PRATIONS				
					2628 (PERFORAT	FEET TO: ED OR OPEN HOLE; IND PERFORATED"	2648 DICATE WHICH)	FEET
			LIST A	LL SUCH P	ERFORATE	PERFORATED IN A ED INTERVALS AND ENT OR PLUG(S) US	GIVE PLUGGED	S)? N/A
		CMT PLUG						-
		@ 2250'-2350'			<i>}-3</i>			
								
						•	FORM C-108 SECTION VI	
						AF	PPLICATION FOR AUTH TO INJECT	ORIZATION
		CMT PLUG @ 2580'-2680'					Parker & Parsie Development L	
							WATER INJECTION	WELL
5-1/2"		· 2720°					TABULATION OF WEL	L DATA

			:					
KINCA	D & WATSO	N DRILLING CO	•		SA BOWM	AN FEDERAL		
OPERATO	₹				LEASE			
	1	330' FSL 8	2310' FWL		SEC-29	T-19-S	R-32-E	
	WELL NO.	FOOTAGE L	OCATION		SECTION	TOWNSHIP	RANGE	
т	YPE OF WELL:	PLUGGED	& ABANDON	ED	-	SPUD DATE:	8/15/57	
	SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA		
c		10 SXS CMT @ SURFACE	SIZE:	8 -5/8	INCHES	CEMENTED WITH:	500	sx
		10 SXS CMT @ SURFACE	TOC:	Surface		FEET DETERMINED BY:	Circulate	<u>d</u>
			HOLE SIZE:		11	INCHES		
			2. INTER	MIDIATE CA	ASING			
			SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	\$x
			TOC:	N/A	·	FEET DETERMINED BY:	N/A	
			HOLE SIZE:		N/A	INCHES		
			3. LONG	STRING				
8-5/8*		880.	SIZE:	5-1/2	INCHES	CEMENTED WITH:	600	sx
			TOC:	250		FEET DETERMINED BY:	Temp. Surv	/ey
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	. DEPTH:	2770	FEET		
			5. PERFO	RATIONS				
					2493 (PERFORATI	FEET TO: ED OR OPEN HOLE; INDIC PERFORATED"	2567 CATE WHICH)	FEET
			LIST A	LL SUCH P	ERFORATE	PERFORATED IN ANY ED INTERVALS AND G ENT OR PLUG(S) USE	IVE PLUGGED	NONE
		CMT PLUG @ 2500'-2690'						
					فحنو		·····	,
						6.	FORM C-108 SECTION VI	

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

WELL DATA SHEET

TEXACO INC				SA BOWM	AN FEDERAL			
OPERATOR				LEASE				
4	990' FSL & 1	659' FFI		SEC-29	T-19-8	s 6	R-32-E	
WELL NO.	FOOTAGE LOC			SECTION	TOWNS		ANGE	
TYPE OF WELL:	PLUGGED 8	ABANDON	ED		SPUD DAT	E:	12/8/87	
, , , , , , , , , , , , , , , , , , ,				-	0, 05 m/.			
COLUMN TIO					7484U 48 84T			
SCHEMATIC		1. SUFAC	E CASING		TABULAR DAT	A		
	·	eize.	44 2/4	no. co	AG1/51/775 14 57	4	1000	
		SIZE:		INCHES	CEMENTED WIT	H:	1000	<u>sx</u>
		TOC:	Surface		FEET DETERMINED	BY: (Circulated	
11-3/4"	928'	HOLE SIZE:		14-3/4	INCHE	s		
		2. INTERA	MIDIATE CA	SING				
		SIZE:	8-5/8	INCHES	CEMENTED WIT	ዝ: 1	1800	5x
		TOC:	Surface		FEET DETERMINED	BY: (Circulated	
8-5/8" 3					INCHE			· · · · · · · · · · · · · · · · · · ·
8-5/8	842'	11000 0.20			INOTIC:	3		
		3. LONG	STRING					
		SIZE:	5-1/2	INCHES	CEMENTED WIT	Ή:	1750	sx
		TOC:	Surface	·	FEET DETERMINED	BY: (Circulated	
		HOLE SIZE:		7-7/8	INCHE	s		
	**	4. TOTAL	DEPTH:	6850	FEET		•	
		5. PERFO	RATIONS					
					6428 FEET 1		FEET	
		•		(PERFORATE	ED OR OPEN HOLE; PERFORATED"	INDICA	E WHICH)	
					PERFORATED IN			?
					D INTERVALS A ENT OR PLUG(S)			Ĭ
9293								
3) 3 4 4 8	CMT			فيبو				
CIBP & CIB	P @ 6300'							
2041 i 1956	RFS						FORM C-108 SECTION VI	
	'8'-6139' CMT				API	PLICATIO	N FOR AUTHORIZA	LTION
CIBP CIE	3P @ 6650°					ين.	TO INJECT	
5-1/2"	350'						irker & Parsley velopment L.P.	

WATER INJECTION WELL

						*		
	r & Parsley							
DEVEL	opment L.P.				SOUTHER	N CALIFORNIA FEDE	RAL	
OPER	OR	,			CEASE			
	2	990' FNL & 9			SEC-29	T-19-S		
	WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PLUGGED 8	ABANDON	ED	_	SPUD DATE:	3/15/63	
	SCHEMATIC	C				TABULAR DATA		
			1. SUFAC	E CASING				
		10 SXS CMT @ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	900	sx
		25 SXS CMT	тос:	Surface		FEET DETERMINED BY:	Circulated	
13-3/8"		@ 700'-800' 827'	HOLE SIZE:		17-1/2	INCHES		
			2. INTERN	MIDIATE CA	ASING			
		25 SXS CMT	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2500	
		@ 2400'-2500'	TOC:	Surface		FEET DETERMINED BY:	Circulated	
			HOLE SIZE:		11	INCHES		
8-5/8	8"	4490'	3. LONG	STRING				
		35 SXS CMT @ 4497	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	<u>sx</u>
			TOC:	10100)	FEET DETERMINED BY:	Temp. Survey	
		25 SXS CMT 4-1/2" STUB @ 6497"	HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	DEPTH:	11406	FEET		
			5. PERFO	RATIONS			·	
					11330 (PERFORAT	FEET TO:	11340 FEET CATE WHICH)	
			6 HASTI	ie weil e	VED BEEN	PERFORATED" PERFORATED IN AN	Y OTHER ZONE/S\2	
						D INTERVALS AND		
			DETAIL	., I.E. SACI	KS OF CEM	ENT OR PLUG(S) USI	ED. NONE	
								
					أجرو			
							FORM C-108	
							SECTION VI	
		25 SXS CMT PERFS 11330'-11340'				APPLICA	ATION FOR AUTHORIZATION TO INJECT	
		25 SXS CMT			•		Parker & Parsley Development L.P.	
•		PERFS 11330'-11340'				WA	ATER INJECTION WELL	
4-1	nz 🖁	11406				TABU	JLATION OF WELL DATA	≈ .

PERATOR				SOUTHER	N CALIFORNIA FEDE	RAL
					•	
WELL NO.	1980' FSL & 1			SEC-29	T-19-S TOWNSHIP	
WELL NO.	FOOTAGE LOCA	AIION		SECTION	IOWNSHIP	MANGE
TYPE OF WELL:	PLUGGED &	ABANDON	ED	-	SPUD DATE:	10/24/63
SCHEMATIC		1. SUFAC	E CASING		TABULAR DATA	
	96' CMT					
	@ SURFACE	SIZE:	13-3/8	INCHES	CEMENTED WITH:	600
	75 SXS CMT	TOC:	Surface		FEET DETERMINED BY:	Circulated
3-3/8"	@ 711'-811' @ 711'-811'	HOLE SIZE:		17-1/2	INCHES	
	SIDE TRACKED	2. INTER	MIDIATE C	ASING		
	ON RE-ENTRY @ 2100'-2373'	SIZE:	8-5/8		CEMENTED WITH:	1700
		3124		INCHES	CEMENTED WITH.	1700
	150 SXS CMT @ 2175'-2304'	TOC:	Surface		FEET DETERMINED BY:	Circulated
		HOLE SIZE:		11	INCHES	
22/52 12/52/1	25 SXS CMT @ 4490'	3. LONG	STRING			
8-5/8"	4604'	SIZE:	4-1/2	INCHES	CEMENTED WITH:	300
4-	1/2" STUB					
25 S @ 4	XS CMT	TOC:	10100		FEET DETERMINED BY:	Temp. Survey
		HOLE SIZE:		7-7/8	INCHES	
		4. TOTAL	. DEPTH:	11406	FEET	
		5 PERFO	RATIONS			
		9. 1 2. (1 0		11330	FEET TO:	11340 FEET
					D OR OPEN HOLE; INDIC	CATE WHICH)
		6. HAS TI	HE WELL E		PERFORATED IN AN	Y OTHER ZONE(S)?
		LIST A	LL SUCH F	ERFORATE	D INTERVALS AND G	SIVE PLUGGED
		DETAIL	L, I.E. SAC	KS OF CEME	ENT OR PLUG(S) USE	D. NONE
						
				عهود		· · · · · · · · · · · · · · · · · · ·
						FORM C-108 SECTION VI
6254						
25 PP	•				APPLICA	TION FOR AUTHORIZATION TO INJECT
25	S SXS CMT					Parker & Parsiey
P	ERFS					Development L.P.

WATER INJECTION WELL TABULATION OF WELL DATA

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Parker & Parsiev

	ment L.P.				NEW MEX	ICO "DH" STATE		
					LEASE			
	1-Y	380' FNL & 3	30' FEL		SEC-32	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOC			SECTION	TOWNSHIP		
TYI	PE OF WELL:	PLUGGED &	ABANDON	EĐ	-	SPUD DATE:	3/12/71	
	SCHEMATIC	;				TABULAR DATA		
		10 SXS CMT	1. SUFAC	E CASING				
		@ SURFACE	SIZE:	10-3/4	INCHES	CEMENTED WITH:	680	5X
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
10-3/4		900,	HOLE SIZE:		17-1/2	INCHES		
			2. INTER	MIDIATE CA	ASING			
			SIZE:	7-5/8	INCHES	CEMENTED WITH:	350	S X
			тос:	Surface		FEET DETERMINED BY:	Circulated	
	CIBP	10 SXS CMT CIBP @ 2700	HOLE SIZE:		11	INCHES		
			3. LONG	STRING				
7-5/8"		2800	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. PERFC	RATIONS		_		
	CB ²	4-1/2* PULLED			4760 (PERFORATI	FEET TO:	4816 FEET CATE WHICH)	
		4-1/2 POLLED	6. HAS TI	HE WELL E	VER BEEN	PERFORATED" PERFORATED IN AN	Y OTHER ZONE(S)?	
						ED INTERVALS AND G ENT OR PLUG(S) USE		·
					المنتان المنتان	······································		<u> </u>
							FORM C-108	
							SECTION VI	
	CIBP	3 SXS CMT				APPLICA	ITION FOR AUTHORIZATION TO INJECT	
		CIBP @4742* PERFS					Parker & Parsley Development L.P.	
		4760'-4816' ' 5050'				WA	TER INJECTION WELL	
4-1/2		5050				TABL	ILATION OF WELL DATA	

evelopment L.P.				LEASE	CO "DH" STATE	
	330' FNL &			SEC-32		
WELL NO.	FOOTAGE LO	CATION		SECTION	TOWNSHIP	RANGE
TYPE OF WELL:	PLUGGED	& ABANDON	ED	•	SPUD DATE:	2/25/71
SCHEMATIC		4 CHEAC	E CASING		TABULAR DATA	·
	10 SXS CMT @ SURFACE	SIZE:	8-5/8	Moure	OCLASIATED LASTIC	520
		TOC:	Surface		FEET DETERMINED BY:	Circulated
		HOLE SIZE:		11	INCHES	
		2. INTER	MIDIATE CA	SING		*
		SIZE:	N/A	INCHES	CEMENTED WITH:	N/A
		· _TOC:	N/A		FEET DETERMINED BY:	N/A
		HOLE SIZE:		N/A	INCHES	
	30 SXS CMT @ 850'-950'	3. LONG	STRING			
8-5/8*	900'	SIZE:	N/A	INCHES	CEMENTED WITH:	N/A
		TOC:	N/A		FEET DETERMINED BY:	N/A
		HOLE SIZE:		7-7/8	INCHES	
		4. TOTAL	DEPTH:	3508	FEET	
		5. PERFO	RATIONS			
				=	FEET TO:	N/A FEET
		6. HAS T	HE WELL E		PERFORATED" PERFORATED IN AN'	Y OTHER ZONE(S)?
		LIST A	LL SUCH P	ERFORATE	D INTERVALS AND G	IVE PLUGGED
	40 SXS CMT	DETAIL	., I.E. SACK	S OF CEME	ENT OR PLUG(S) USE	D. N/A
	@ 2360'-2500'					
		•				
				· · · · · · · · · · · · · · · · · · ·		
				•		FORM C-108 SECTION VI
					APPLICA	TION FOR AUTHORIZATION TO INJECT
	40 SXS CMT					Parker & Parsiey Development L.P.
	@ 2610'-2750'				WA	TER INJECTION WELL

Parker & Parsley	r serve						
Development L.P.				FORAN "N	E" CATE		
OPERATOR				LEASE	FIGATE		
•							
WELL NO.	330' FNL & 1			SEC-32	T-19-S TOWNSHIP	R-32-E RANGE	
WELL NO.	FOO IAGE LO	ATION		SECTION	OWNSHIP	KANGE	•
TYPE OF WELL:	PLUGGED 8	ABANDON	ED	_	SPUD DATE:	12/16/87	
SCHEMATIC	•				TABULAR DATA		
Towns and the second		1. SUFAC	E CASING		TERRETT AUTO		
	10 SXS CMT @ SURFACE						
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	760	5X
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
	25 SXS CMT	100.	- Carrace		- PEET DETERMINED BI.	Officulated	
13-3/8"	890'	HOLE SIZE:		17-1/2	INCHES		-
		2. INTER	MIDIATE C	ASING			
					•		
		SIZE:	8-7/8	INCHES	CEMENTED WITH:	1555	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
					<u> </u>		
	as eve out	HOLE SIZE:		11	INCHES		
	25 SXS CMT @ 3800'-4000'	3. LONG	STRING		•		
8-5/8"	3908,	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		
881 881		5. PERFO	RATIONS				
		0. 1 2.11 0	TO TONG	5664	FEET TO:	5681 FEET	
				(PERFORATI	ED OR OPEN HOLE; INDI	CATE WHICH)	
		6. HAS TH	HE WELL E	VER BEEN	PERFORATED" PERFORATED IN AN	Y OTHER ZONE(S))?
					D INTERVALS AND G	•	•
	-	DETAIL	., I.E. SACI	KS OF CEM	ENT OR PLUG(S) USE	ED <u>.</u>	N/A
							
				فدد			•
						FORM C-108 SECTION VI ~	-
CIBP				•	APPLICA	TION FOR AUTHORIZA	ATION
	35' CMT .					TO INJECT	3 -
CISP	CIBP @ 5560'				-	Parker & Parsley	
	PERFS					Development L.P.	
	@ 5664'-5681'				WA	TER INJECTION WELL	
	@ 5664'-5681'				TABU	ILATION OF WELL DA	ГА
5-1/2" A	6588'		,	•			

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PLAINS UNIT

PAN AMERICAN F	EI. CORP.				PLAINS OF	₹ ₹ ₹				
OPERATOR					LEASE					
3	198	10' FSL & 66	0' FWL		SEC-28	T-19-S	3	R-32-E		
WELL NO.		TAGE LOCAT			SECTION	TOWNS		RANGE		
TYPE OF WELL:	PLi	UGGED & A	BANDON	ED	_	SPUD DATE	Ľ	7/6/63		
_										
SCHEMATIC	2					TABULAR DATA	A			
	10 SXS CMT		1. SUFAC	E CASING			-			
	@ SURFACE		SIZE:	13-3/8	INCHES	CEMENTED WITH	⊔ •	750		•
			0124.	10-0/0	INCHES	CEMENTED WITH	<u>"—</u>			sx.
			TOC:	Surface		FEET DETERMINED	BY:	Circulated	1	
			HOLE SIZE:		17-1/2	INCHES	:			
					•					
			2. INTERN	MIDIATE CA	ASING					
			SIZE:	N/A	INCHES	CEMENTED WITH	H:	N/A	_	\$X
						•				
13-3/8"	843'		TOC:	N/A		FEET DETERMINED I	BY:	N/A		
	110 SXS CMT @ 743'-943'		HOLE SIZE:		11	INCHES	5			
	@ /+0-3+0		3. LONG	STRING						
			0. LONG (3114116						
			SIZE:	N/A	INCHES	CEMENTED WITH	H:	N/A		sx
	300 SXS CMT		TOC:	N/A		FEET DETERMINED	BY:	N/A		
	@ 3093'-3350'									
- 1			HULE SIZE:		N/A	INCHES	5			
	SIDE TRAC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4. TOTAL	DEPTH:	4111	FEET				
	ON RE-ENT @ 3300'		5. PERFO	RATIONS						•
			O L O		N/A	FEET T	o:	N/A	FEET	
					(PERFORATI	ED OR OPEN HOLE;	INDICA	ATE WHICH)	- -	
	laying pula Summariya		6. HAS TH	IF WELL F	VER REEN	PERFORATED" PERFORATED IN	ΙΔΝΥ	OTHER 70	NE(S)2	
CMT PLUG						D INTERVALS A			• •	
@3300	Addison to					ENT OR PLUG(S)			NONE	
	and the second second									-
					<u> </u>					
			·							
								FORM C-108 SECTION VI		•
		ON JULY 26, 1963 SUBSEQUENT FIS	HING OPERATIO	ONS THREE COLL	ARS WERE RECO	VERED LEAVING		SECTION VI		
		12 COLLLARS IN 1 A CEMENT PLUS	WAS SET FROM	TOP OF FISH TO	3300', DRILLING	WAS	LICAT	ION FOR AUTI TO INJECT	ORIZATION	
		COMMENCED IN A AFTER UNABLE T	O GET WHIPSTO	OCK TO BOTTOM.	ON 8-12-63 WHILE	E MAKING A TRIP			•	
		AFTER DRILLING ONCE AGAIN. TO	THE SIDE TRACE P OF FISH AT 36	K HOLE TO DEPT 1867" AFTER FISHII	H OF 4005', THE DI NG FOR TWO DAY:	RILL PIPE STUCK S ABANDON THE		Parker & Parsk Development L		
	4005'	HOLE AND MOVE ABANDONED BY	D LOCATION. LE SPOTTING 300 S	EFT THREE DRILL	COLLARS, JARS	AND BIT IN HOLE.		•	•	
		AND 10 SXS CMT	SURFACE.				-	ER INJECTION		
	4111'						TABUL	ATION OF WE	LL DATA	٠.

RAY WESTALL OPERATING CORP.					LUSK "16" STATE					
OPERA	TOR				LEASE					···········
	1	660' FSL	& 660' FWL		SEC-16	T-1	9-S	R-3	32-E	
	WELL NO.	FOOTAGE	LOCATION		SECTION	TOV	NNSHIP	RAI	NGE	
	TYPE OF WELL:	PRODUC	CING OIL AN	ID GAS WE	LL	SPU	D DATE:		3/9/62	
	SCHEMATIC					TABULAR D	ATA			
			1. SUFAC	E CASING		TADOLAN D	212			
			SIZE:	13-3/8	INCHES	CEMENTED WITH	4 :		125	sx
		208'	TOC:	Surface		FEET DETERMIN	ED BY:	Cii	rculated	
13-3/8"		208	HOLE SIZE:	<u> </u>	17-1/2	INC	HES			
			2. INTERI	WIDIATE CA	ASING					
		208'	SIZE:	9-5/8	INCHES	CEMENTED WITH	1 :		500	sx
			TOC:	Surface		FEET DETERMIN	ED BY:	Ci	rculated	
			HOLE SIZE:		11	INC	HES			
9-5/8		450'	3. LONG	STRING			•			
			SIZE:	5-1/2	INCHES	CEMENTED WITH	t :		3475	sx
			TOC:	Surface		FEET DETERMIN	ED BY: .	Cir	rculated	
			HOLE SIZE:		7-7/8	inc	HES			
			4. TOTAL	DEPTH:	6600	FEE	T			
			5. PERFC	RATIONS	6503	-	T TO:	6509	EE ET	
						ED OR OPEN HOL	TTO: E; INDIC		FEET	
						"PERF	ORATE	D"		
					ئيد			FORM C-108		
		TBG @ 6230'						SECTION VI		
	\[\times \]	PERFS 6503'-6509'				APP	LICATIO	ON FOR AUTH TO INJECT	ORIZATION	
								rker & Parsi	-	
	5-1/2"	6600'					Dev	velopm <mark>ent</mark> L	P.	

WATER INJECTION WELL TABULATION OF WELL DATA

Parker & Pars	ley									
Development	L.P.			LUSK DEEP UINIT "A"						
OPERATOR				LEASE						
19 WELL N		330' FNL & 1656' FEL		SEC-20	T-19-S		32-E			
***************************************	···	FOOTAGE ESSATION		CONOR						
TYPE OF W	ÆLL:	PRODUCING OIL AN	ID GAS WEL	L	SPUD DA	TE:	1/26/90			
SCHE	MATIC	4 811540	E CASING		TABULAR DATA					
		I. SUFAC	E CASING							
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	•	1000	sx		
13-3/8"	870'	TOC:	Surface		FEET DETERMINED B	Y:C	irculated	·		
,	870	HOLE SIZE:		17-1/2	INCHES					
8_5(R**		2. INTER	MIDIATE CA	SING		•				
		SIZE:	8-5/8	INCHES	CEMENTED WITH:		3230	sx		
		TOC:	Surface		FEET DETERMINED B	Y:C	irculated			
		HOLE SIZE:		12-1/4	INCHES					
8-5/8*	4500'	3. LONG	STRING							
		SIZE:	5-1/2	INCHES	CEMENTED WITH:		900	sx		
		TOC:	1630		FEET DETERMINED B	y: Tem	p. Survey			
		HOLE SIZE:		7-7/8	INCHES					
		4. TOTAL	DEPTH:	7220	FEET					
		5. PERFO	RATIONS							
				6468	FEET TO ED OR OPEN HOLE; II		FEET			
					"PERFOR					
				تحده		FORM C-108	ı			
	TBG @ 64	87*				SECTION VI				

PERFS

6468'-6481'

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

SHAC	CKELFORD OIL			MOBIL FE	DERAL		
OPERA	TOR			LEASE			
	3	2310' FSL & 330' FW	Λ	SEC-21	T_10_S	R-32-F	
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PRODUCING OIL AN	ND GAS WE	LL	SPUD DATE:	10/25/89	
	-				•		
	SCHEMATIC	1. SUFAC	CE CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx
		TOC:			FEET DETERMINED BY:	Circulated	
13-3/8"	7623	_	: <u></u>	17-1/2	INCHES		
		2. INTER	MIDIATE CA	SING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	1090	sx
		TOC:	150		FEET DETERMINED BY:	Temp. Surve	У
		HOLE SIZE	:	11	INCHES		
8-5/8*	425	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. PERFO	PRATIONS				
				6478	FEET TO:		EET
				(i Liu Olovii	"PERFORATE		
	TBG @ PERF: 6478'-						
		•		فحدد		FORM C-108	
	твс @	7444'				SECTION VI	
	PERF. 6478'-	S			APPLICATIO	ON FOR AUTHORIZATION TO INJECT	ON
5- 1	/7					rker & Parsley	
3 −1	172° 240'				Dev	elopment L.P.	
					WATE	R INJECTION WELL	

WELL DATA SHEET Parker & Parsley Development L.P. **PLAINS UNIT** OPERATOR LEASE R-32-E 1980' FNL & 660' FWL SEC-28 T-19-S FOOTAGE LOCATION SECTION TOWNSHIP RANGE WELL NO. TYPE OF WELL: PRODUCING OIL AND GAS WELL 3/19/63 SPUD DATE: SCHEMATIC TABULAR DATA 1. SUFACE CASING 750 13-3/8 INCHES CEMENTED WITH: TOC: Surface FEET DETERMINED BY: Circulated 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 9-5/8 INCHES CEMENTED WITH: 4250 SIZE: TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 12-1/4 INCHES 9-5/8" 3. LONG STRING 7 INCHES CEMENTED WITH: 750 sx TOC: 4490 FEET DETERMINED BY: Temp. Survey HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 12996 5. PERFORATIONS 11432 FEET TO: 12530 FEET (PERFORATED OR OPEN HOLE; INDICATE WHICH) "PERFORATED" **FORM C-108** SECTION VI

PERFS

11432'-12530'

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

PLAINS UNIT FEDERAL

OPERA	TOR			LEASE		······································	
		1980' FSL & 760' FWI			T-19-S		
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PRODUCING OIL AN	D GAS WE	LL	SPUD DATE:	12/4/8	31
	SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	750	sx
		TOC:	Surface		FEET DETERMINED BY:	Circula	ted
13-3/8"	840'	HOLE SIZE:		17-1/2	INCHES		
	3647	2. INTERN	MIDIATE CA	ASING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	700	· sx
	3647	TOC:	Surface		FEET DETERMINED BY:	Circula	ted
		HOLE SIZE:		12-1/4	INCHES		
8-5/8*	3647	3. INTERN	MIDIATE CA	ASING			
		SIZE:	7	INCHES	CEMENTED WITH:	250	sx
		TOC:	8796	i	FEET DETERMINED BY:	Temp. Su	rvey
		HOLE SIZE:		8-1/2	INCHES		
	0971	4. LONG	STRING				
	9871'	SIZE:	5-1/2	INCHES	CEMENTED WITH:	250	sx
		TOC:	10714	,	FEET DETERMINED BY:	Calculat	ed
		HOLE SIZE:		7-7/8	INCHES		
		5. TOTAL	DEPTH:	11485	FEET		
		6. PERFO	RATIONS				
				11390 (PERFORAT	FEET TO: ED OR OPEN HOLE; INDIC	11480 CATE WHICH)	FEET
					"PERFORATE	FORM C-108	
						SECTION VI	
	PERFS 11390'-1148	0,			APPLICATION	ON FOR AUTHORIZ TO INJECT	LATION
	11485					rker & Parsley	
5	11/2" 11485"				De	velopment L.P.	

PERFS

11514

11435'-11479'

FORM C-108
SECTION VI
APPLICATION FOR AUTHORIZATION
TO INJECT

Parker & Parsley Development L.P.

SHACKELFORD OIL		PLAINS	UNIT		
OPERATOR		LEASE			
6	√ 1980' F ≴ L & 660' FWL	SEC-21	T-19-S	R-32-E	
WELL NO.	FOOTAGE LOCATION	SECTION			
TYPE OF WELL:	PRODUCING OIL AND	GAS WELL	SPUD DATE:	7/10/96	
SCHEMATIC	1. SUFACE (Casing	TABULAR DATA		
	SIZE:	13-3/8 INCH	ES CEMENTED WITH:	750	sx
13-3/8" 2 825'	тос: <u>S</u>	urface	FEET DETERMINED BY:	Circulated	
13-3/8" 2 825'	HOLE SIZE:	17-1/2	INCHES		
	2. INTERMID	IATE CASING			
	SIZE:	10-3/4 INCH	ES CEMENTED WITH:	700	sx
	тос: <u>S</u>	urface	FEET DETERMINED BY:	Circulated	•
	HOLE SIZE:	12-1/-	1 INCHES		
10-3/4" 2 2651'	3. INTERMID	IATE CASING			
	SIZE:	8-5/8 INCH	ES CEMENTED WITH:	275	sx
	TOC:	3335	FEET DETERMINED BY:	Calculated	
	HOLE SIZE:	11	INCHES	•	
8-5/8* 4490'	4. LONG ST	RING			
8-5/8" 4490'	SIZE:	5-1/2 INCH	ES CEMENTED WITH:	200	sx
	TOC:	10714	FEET DETERMINED BY:	Calculated	
	HOLE SIZE:	7-7/8	INCHES		
	5. TOTAL DE	EPTH: 116	90 FEET		,
	6. PERFORA			14500	_
		115 (PERFOR	ATED OR OPEN HOLE; INDIC		T
			"PERFORATE	ED" FORM C-108	
			. =	SECTION VI	
PERFS			APPLICATI	ON FOR AUTHORIZATION TO INJECT	.N -
11516'-115			D .	arker & Parsley	
11690				velopment L.P.	

Parker & Parsley Development L.P. SOUTHERN CALIFORNIA FEDERAL OPERATOR 1980' FNL & 660' FEL SEC-29 T-19-S R-32-E FOOTAGE LOCATION SECTION RANGE WELL NO. TOWNSHIP 3/23/62 TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: TABULAR DATA SCHEMATIC 1. SUFACE CASING 13-3/8 INCHES CEMENTED WITH: SIZE: 950 SX Surface FEET DETERMINED BY: Circulated TOC: HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 9 INCHES CEMENTED WITH: 2725 sx SIZE: TOC: Surface FEET DETERMINED BY: Circulated HOLE SIZE: 12-1/4 INCHES 3. LONG STRING 2140 sx SIZE: 5-1/2 INCHES CEMENTED WITH: 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 **FORM C-108** SECTION VI RET @ 11292' W/160 SXS

PERFS

11410'-11430'

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley
Development L.P.

WATER INJECTION WELL

Parke	er & Parsie	ey .					•	
Deve	lopment L	P.			SOUTHER	N CALIFORNIA FEDE	RAL	
OPERA"	PERATOR 5 WELL NO.				LEASE			
	5		1980' FSL & 1980' FE	:	SEC-29	T-19-S	R-32-E	
			FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WE	L:	PRODUCING OIL AN	D GAS WEI	<u></u>	SPUD DATE:	12/5/87	
	SCHEM/	ATIC	1. SUFAC	E CASING		TABULAR DATA		
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	735	sx
40.040			TOC:	Surface		FEET DETERMINED BY:	Circulated	<u>i</u>
13-3/8		880'	HOLE SIZE:		17-1/2	INCHES		
			2. INTERN	MIDIATE CA	SING			
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	2350	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	<u> </u>
		4474	HOLE SIZE:	·	12-1/4	INCHES		
8-5/8		4474	3. LONG	STRING				
			SIZE:	5-1/2	INCHES	CEMENTED WITH:	800	sx
			TOC:	4210		FEET DETERMINED BY:	Cmt Bond Lo	og
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	DEPTH:	7200	FEET		
			5. PERFO	RATIONS	6426	FEET TO:	6444	FEET
		A CONTRACTOR OF THE CONTRACTOR				ED OR OPEN HOLE; INDI	CATE WHICH)	FCE 1
						V 2 . W 3.3 W.		
		П			فدد			
							FORM C-108	
		TBG@ 638	33'				SECTION VI	
		TBG@ 638 PERFS 8426'-644	14'			APPLICATION	ON FOR AUTHORIZATI TO INJECT	ON

Parker & Parsley Development L.P.

WATER INJECTION WELL

P	агк	er	Ğ.	Pa	rs	le	y
D	ev	elo	рn	ner	nt	L.	P

SOUTHERN CALIFORNIA FEDERAL

OPERA"	TOR			LEASE			
	7 WELL NO.	2210' FNL & 2260' FV FOOTAGE LOCATION	VL	SEC-29	T-19-S TOWNSHIP	R-32-E RANGE	
	TYPE OF WELL:	PRODUCING OIL AN	D GAS WE	LL	SPUD DATE:	3/24/88	
	SCHEMATIC	1. SUFAC	E CASING		TABULAR DATA	•	
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	735	\$X
	90:		Surface		FEET DETERMINED BY:	Circulated	
13-3/8"	90:	•		17-1/2	INCHES		
		2. INTERN	MIDIATE CA	SING			
	903	SIZE:	8-5/8	INCHES	CEMENTED WITH:	2450	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
8-5/8	4500	יי		12-1/4	INCHES		
		3. LONG S					
		SIZE:			CEMENTED WITH:	600	sx
		TOC:	4000		·	Cmt Bond Log	
					INCHES		
				7204	FEET		
	224	5. PERFO	RATIONS	6429 (PERFORATE	FEET TO:	6442 FEET	
				(, <u></u> ,,	"PERFORATE		
				نجه			
	тво	sean.		_		FORM C-108 SECTION VI	
	TBG@ PERFS 6429'-0	5			APPLICATIO	ON FOR AUTHORIZATION TO INJECT	
5	-1/Z* 7204·					ker & Parsley elopment L.P.	

P	ar	ker	Ğ.	Pa	rs	ley
D	ev	elo	pr	ner	nt	L.P

SOUTHERN CALIFORNIA FEDERAL

OPERATOR		· · · · · · · · · · · · · · · · · · ·		LEASE				
9	660' FW	L & 1980' FSI	_	SEC-29	T-19-S	R-32-E		
WELL NO.	FOOTAGE	LOCATION		SECTION	TOWNSHII			
TYPE OF WELL	.: PRODU	CING OIL AN	D GAS WE	<u>L</u> L	SPUD DAT	E: 7/21	/96	
SCHEMAT	пс	1. SUFAC	E CASING		TABULAR DATA			
		1. 001 70	L GAGING					
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	675		<u>sx</u>
13-3/8"	850'	TOC:	Surface		FEET DETERMINED BY:	Circula	ated	
		HOLE SIZE:		17-1/2	INCHES			
8-5/8*	850'	2. INTERM	IIDIATE CA	SING				
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	1325	5	sx
		TOC:	Surface		FEET DETERMINED BY:	Circul	ated	
0.5(9)		HOLE SIZE:		11	INCHES			
8-5/8"	4004'	3. LONG S	STRING					
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	1265	5	sx
		TOC:	Surface	•	FEET DETERMINED BY:	Circula	ated	
	4004'	HOLE SIZE:		7-7/8	INCHES			
		4. TOTAL	DEPTH:	7210	FEET			
: Yid		5. PERFO	RATIONS	6391	FEET TO:	6400	FEET	
					D OR OPEN HOLE; INC	DICATE WHICH)		
10. No. 10. No	TBG@ 6500' PERFS 8391'-6400'				"PERFORA"	I ED"		
\boxtimes	×			تحد				
Marie a chicago	TBG@ 6500'				•	FORM C-108 SECTION VI		
	PERFS 6391'-6400'				APPLICAT	TION FOR AUTHORIZ TO INJECT	ZATION	
5-1/2"	7210'					arker & Parsley evelopment L.P.		

WATER INJECTION WELL

TEXA	CO INC.			FEDERAL	USA "J"			
PERA	TOR			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 A	ND GAS WE	LL	SPUD DATE	:8/17/	/87	_
	SCHEMATIC	1. SUFAC	CE CASING		TABULAR DATA			
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	300		sx
	8	TOC:	Surface		FEET DETERMINED BY:	Circula	ated	
13-3/8"	8	HOLE SIZE	<u> </u>	17-1/2	INCHES			
		2. INTER	MIDIATE CA	ASING				
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	1810)	sx
	37(TOC:	Surface		FEET DETERMINED BY:	Circula	ated	
		HOLE SIZE	<u> </u>	12-1/4	INCHES			
8-5/8"	370	^{03'} 3. LONG	STRING			٠		
		SIZE:	4-1/2	INCHES	CEMENTED WITH:	600		<u>sx</u>
		TOC:	2780)	FEET DETERMINED BY:	Calcula	ited	
		HOLE SIZE	<u> </u>	7-7/8	INCHES			-
		4. TOTAL	L DEPTH:	11300	FEET			
		5. PERF	ORATIONS	6381	SEST TO	6386	CCCT	
					FEET TO:		FEET	
					"PERFORAT			
				تضد				
						FORM C-108 SECTION VI		
	PERF 6381	FS - 6386'			APPLICATI	ON FOR AUTHORIZ	'ATION	
4	PLUG PBD@					rker & Parsley velopment L.P.		
	OLD PERFS 11204'-11252'	-				-		
	-				WATE	ER INJECTION WEL	. L	

TEXA	CO INC.			FEDERAL	USA "I"		
OPERA	TOR			LEASE			
	1	660' FNL & 660' FEL	_	SEC-31	T-19-S	R-32-E	
	WELL NO.	FOOTAGE LOCATION		SECTION	TOWNSHIP		
	TYPE OF WELL:	PRODUCING OIL A	ND GAS WE	LL	SPUD DATE	: 4/26/64	,
	SCHEMATIC	1. SUFA	CE CASING		TABULAR DATA	•	
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	350	sx
13-3/8"		TOC:	Surface		FEET DETERMINED BY:	Circulate	ed
13-3/0			Ē:	17-1/2	INCHES		
		2. INTER	RMIDIATE CA	ASING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	400	sx
	37	TOC:	Surface	···	FEET DETERMINED BY:	Circulate	ed
		HOLE SIZE	Ξ:	12-1/4	INCHES		
8-5/8*		706' 3. LONG	STRING				
		SIZE:	5-1/2	INCHES	CEMENTED WITH:	1600	<u>sx</u>
		TOC:	2780		FEET DETERMINED BY:	Calculate	<u>d</u>
		HOLE SIZE	E:	7-7/8	INCHES		
		4. TOTA	L DEPTH:	6981	FEET		
		5. PERF	ORATIONS			•	
				6682		6727	FEET
				(PERFORA)	ED OR OPEN HOLE; INDI "PERFORAT		
	TBG						
				قصة			
	тво	G @ 6472°				FORM C-108 SECTION VI	
	TBG PER 6682	RFS			APPLICATI	ON FOR AUTHORIZA	TION
	6684	2-6727			_		
5-	1/2 695	1' .				arker & Parsiey evelopment L.P.	

WATER INJECTION WELL

WELL DATA SHEET

TEXA	CO INC.				FEDERAL	USA "J"				
PERA1	TOR				LEASE					
	2	660' ESL 8	385' FEI		SEC-30		T-19-S	R-32	-E	
	WELL NO.	FOOTAGE L	OCATION		SECTION		TOWNSHIP	R-32- RANG	<u>-</u> E	
	TYPE OF WELL:	PRODUCI	NG OIL AN	D GAS WE	<u> </u>	_	SPUD DATE:	7	'/3/93	
						-				
	SCHEMATIC					TABULA	R DATA			
			1. SUFAC	E CASING						
			SIZE:	11-3/4	INCHES	CEMENTE	O WITH:	56	60	sx
			TOC:	Surface		FEET DETE	ERMINED BY:	Circ	ulated	
1-3/4"	84	50'	HOLE SIZE:		17-1/2	·	INCHES			
			2. INTERN	MIDIATE CA	SING					
			SIZE:	8-5/8	INCHES	CEMENTE	O WITH:	26	55	sx
	410		TOC:	Surface	 	FEET DETE	ERMINED BY:	Circ	ulated	
	444		HOLE SIZE:		12-1/4		INCHES			•
8-5/8"	410	00'	3. LONG	STRING						
			SIZE:	5-1/2	INCHES	CEMENTE	O WITH:	90	30	sx
			TOC:	3420	·	FEET DETE	ERMINED BY:	Calcu	ulated	
			HOLE SIZE:		7-7/8	<u> </u>	INCHES			
			4. TOTAL	DEPTH:	7229		FEET		ı	
			5. PERFO	RATIONS						
					6638		FEET TO: N HOLE; INDI	7102	FEET	
					(PERFURAT		PERFORATI			
					شيد					
								FORM C-108 SECTION VI		
	тво	7003'								_
	TBG@	S -7102'					APPLICATI	ON FOR AUTHOI TO INJECT	RIZATION	• ,
							Pa	ırker & Parsley	y	
5-	-1/2" 7229'	•					De	velopment L.F	۶.	

WATER INJECTION WELL

WELL DATA SHEET

TEX/	ACO INC.				FEDERAL	USA "J"		
OPERA	TOR				LEASE			
	3		1980' FSL & 330' FEL		SEC-30	T-19-S	R-32-E	
	WELL N	ю.	FOOTAGE LOCATION		SECTION	TOWNSHIP		
	TYPE OF W	ELL:	PRODUCING OIL AN	ID GAS WE	L L	SPUD DATE	± 6/26/9	94
	SCHEM	MATIC:				TABULAR DATA		
		1 280 890	1. SUFAC	E CASING		TANCAL PATA		
			SIZE.	11-3/4	INCHES	CEMENTED WITH:	650	sx
11-3/4"		850	TOC:	Surface		FEET DETERMINED BY:	Circula	ted
11-214		1 222	HOLE SIZE:		17-1/2	INCHES		
			2. INTER	WIDIATE CA	SING			
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	2075	sx
		4120	TOC:	Surface		FEET DETERMINED BY:	Circula	ted
			HOLE SIZE:		12-1/4	INCHES		
8-5/8	• 2	4120'	3. LONG	STRING				
			SIZE:	5-1/2	INCHES	CEMENTED WITH:	450	<u>sx</u>
			TOC:	5310		FEET DETERMINED BY:	Temp. Su	rvey
			HOLE SIZE:		7-7/8	INCHES		
			4. TOTAL	DEPTH:	7200	FEET		
			5. PERFO	RATIONS				
					6639 (PERFORATI	FEET TO: ED OR OPEN HOLE; IND	7088	FEET
						"PERFORAT		
								•
					ق ريد			
					***		FORM C-108 SECTION VI	
		PERFS 6639'-70	88'			APPLICATI	ON FOR AUTHORIZ	ATION
							arker & Parsley	
5-	-1/2"	7200'				D€	velopment L.P.	-

WATER INJECTION WELL

TEXACO INC.					NEW MEX	ICO "CR" STATE		
OPERA	TOR				LEASE			
	1	660' FNL	. & 660' FWL		SEC-32	T-19-S	R-32-E	
	WELL NO.	FOOTAGE	LOCATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WELL:	PRODU	CING OIL AN	ID GAS WE	<u>LL</u>	SPUD DATE	7/3/90	
	SCHEMATIC		4 60546	E CACINO		TABULAR DATA		
ė			1. SUPAC	E CASING				
			SIZE:	11-3/4	INCHES	CEMENTED WITH:	600	sx
44 044			TOC:	Surface		FEET DETERMINED BY:	Circulated	
11-3/4"		325 '	HOLE SIZE:		17-1/2	INCHES	·	
			2. INTERI	MIDIATE CA	ASING			
			SIZE:	8-5/8	INCHES	CEMENTED WITH:	600	sx
			TOC:	Surface		FEET DETERMINED BY:	Circulated	
			HOLE SIZE:		12-1/4	INCHES		
8-5/8	39	900,	3. LONG	STRING				
			SIZE:	4-1/2	INCHES	CEMENTED WITH:	300	sx
			TOC:	6400)	FEET DETERMINED BY:		
			HOLE SIZE:		7-7/8	INCHES	Cmt Sqz Perfs & Leaks	
7			4. TOTAL	. DEPTH:	11500	FEET		
			5. PERFC	RATIONS			•	
					11256 (PERFORAT	FEET TO: ED OR OPEN HOLE; INDI	11304 FEET	•
					, =	"PERFORAT		
•					,			
				£	16			
		F	I he	renan.	A∠		FORM C-108	
	тв	G@ 9400' \)/~ '	1 well	<i>i</i> ~ 0		SECTION VI	
	PER	FS 6'-11304'	K hi	J.	0.	APPLICATI	ON FOR AUTHORIZATION TO INJECT	
			Ì	1	fer	Pa	rker & Parsley	•

Development L.P.

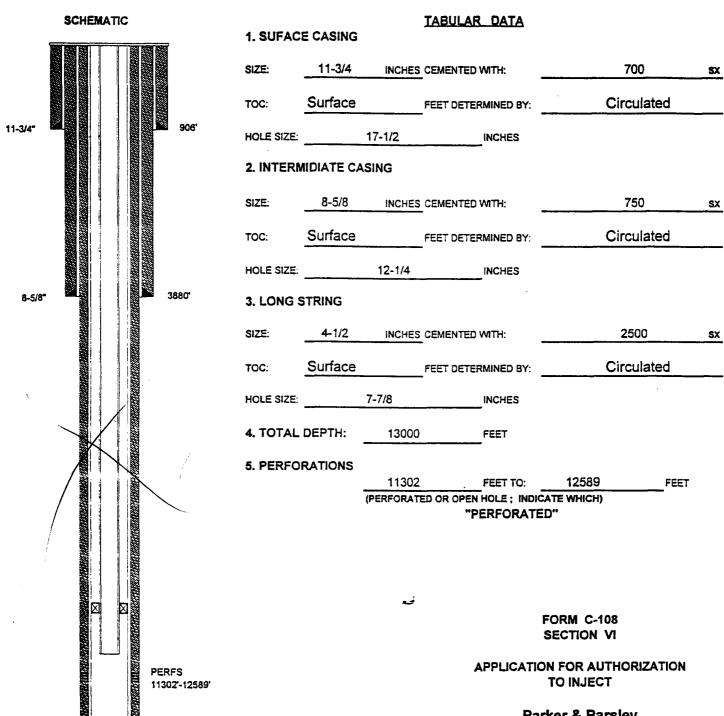
WATER INJECTION WELL

Parker & Parsley Development L.P. OPERATOR

12995

TEXACO-CITIES SERVICE COM.

LATOR		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	: \A/Fil	QDLID DATE:	5/R/RA	



Parker & Parsley Development L.P.

WATER INJECTION WELL

P	аг	Ker	Ğ.	Pa	rs	ley	
	ev	elc	זמנ	ne	nt i	LP	

SOUTHERN CALIFORNIA FEDERAL

OPERATOR	<u> </u>		······	LEASE	N CALIFORNIA FEDE	KAL	
OPERATOR				LEASE			
	660' F	SL & 660' FEL		SEC-29	T-19-S	R-32-E	
WELL NO.	FOOTA	GE LOCATION		SECTION	TOWNSHIP	RANGE	
TYPE OF WELL:	PROD	UCING OIL AN	D GAS WE	LL	SPUD DATE:	1997	
SCHEMAT!		1. SUFAC	E CASING		TABULAR DATA		
		SIZE:	13-3/8	INCHES	CEMENTED WITH:	675	sx
8-5/8"	4050*	TOC:	Surface	·· ·	FEET DETERMINED BY:	Circulated	
13-3/8*	850'	HOLE SIZE:		17-1/2	INCHES		
		2. INTERN	MIDIATE CA	ASING			
		SIZE:	8-5/8	INCHES	CEMENTED WITH:	1325	sx
		TOC:	Surface		FEET DETERMINED BY:	Circulated	
		HOLE SIZE:		12-1/4	INCHES		
8-5/8"	4050'	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. PERFO	RATIONS			•	
				6420	FEET TO: ED OR OPEN HOLE; INDI	6440 FEE	ET
				(PERFORA II	PERFORATI	·	
				أصد		FORM C-108	
	TBG@ 6500'					SECTION VI	
	186@ 6500				100/10 ATI	ON 500 AUTUODI7470:	
⊠ ⊠	TBG@ 6500' PERFS 6420'-6440'				APPLICATI	ON FOR AUTHORIZATION TO INJECT	N
						rker & Parsley	
5-1/2"	7200				De	velopment L.P.	

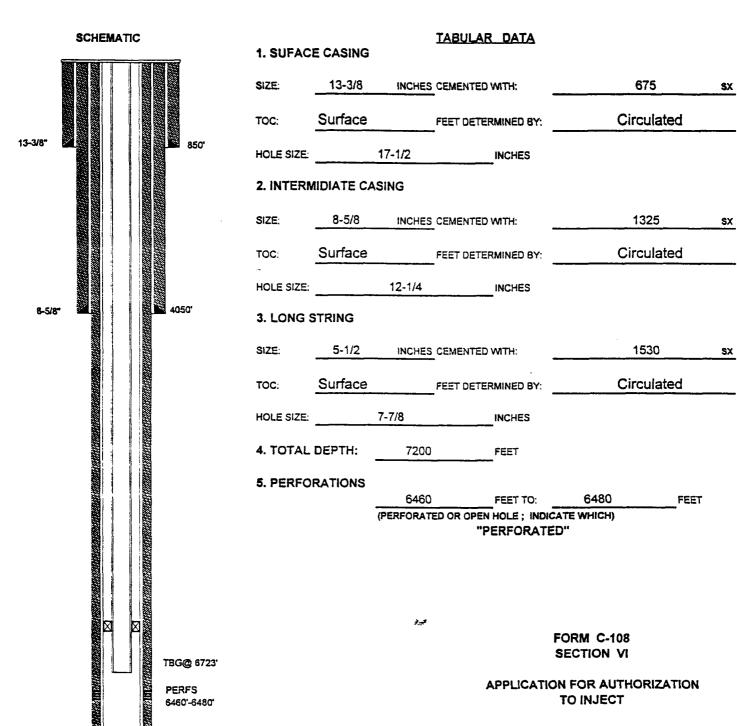
WATER INJECTION WELL

Parker & Parslev

		- 4
Developm	ent	L.P.

LUSK DEEP "A"

OPERATOR LEASE 990' FSL & 660' FEL T-19-S R-32-E SEC-20 WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE TYPE OF WELL: PRODUCING OIL AND GAS WELL 1997 SPUD DATE:



Parker & Parsley Development L.P.

WATER INJECTION WELL

LUSK DEEP "A"

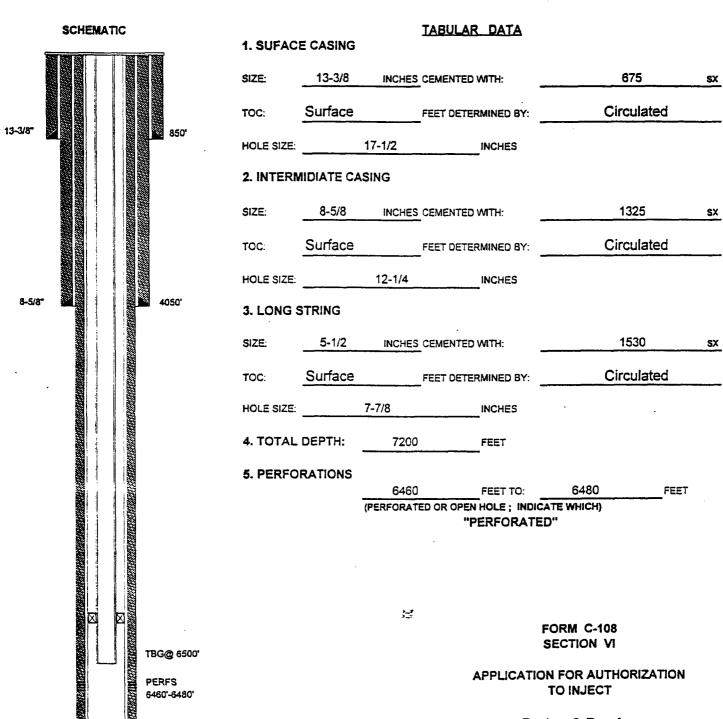
OPERATOR

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



7200

Parker & Parsley Development L.P.

WATER INJECTION WELL

Parker & Parsley Development L.P.

LUSK DEEP UNIT "A"

OPERA"	TOR				LEASE				
	4 WELL NO			EL		T-19-S TOWNSHIP		R-32-E	
	TYPE OF WEL	-L:F	PRODUCING OIL AN	ND GAS WE	LL	SPUD DATE:	10/5/62	RE-ENTRY	3/13/88
	SCHEMA	ATIC	1. SUFAC	E CASING		TABULAR DATA			
			SIZE:	13-3/8	INCHES	CEMENTED WITH:		1180	sx
			TOC:	Surface	T	FEET DETERMINED BY:		Circulated	·
13-3/8"		822	HOLE SIZE	:	17-1/2	INCHES			
			2. INTER	MIDIATE CA	ASING				
			SIZE:	9-5/8	INCHES	CEMENTED WITH:		2365	sx
		4226'	TOC:	Surface		FEET DETERMINED BY:		Circulated	
			HOLE SIZE	:	12-1/4	INCHES			
9-5/8"		4226*	3. LONG	STRING		NOTE: 6/88 CUT AND PUL	LEÐ 7185' O	F 4-1/2 CSG	
			SIZE:	4-1/2	INCHES	CEMENTED WITH:	·	300	sx
			TOC:	10000)	FEET DETERMINED BY:		Circulated	
		PERFS	HOLE SIZE	:	7-7/8	INCHES			
		PERFS 6462'-6472'	4. PRODE	UCTION ST	RING				
5-1/2		7165'	SIZE:	5-1/2	INCHES	CEMENTED WITH:		500	sx
		CUT OFF 4-1/ @ 7185'	/2 CSG TOC:	5595	<u> </u>	FEET DETERMINED BY:		Calculated	
			HOLE SIZE	·	7-7/8	INCHES			
	/ 22		5. TOTAL	DEPTH:	11531	FEET			
	75.00		6. PERFO	PRATIONS	6462	FEET TO:	6472	2 F	EET ·
ne e						ED OR OPEN HOLE; INDIC	CATE WHICH		
1400	7.555.57						FORM C		
Joy of	20 1	25 SXS CMT ORG. PERFS 11430'-11470' (C	MENTED)			APPLICATI		AUTHORIZATI	ON
ני יינ							arker & I	-	,
4-	1/2	11531'				De	evelopm	ent L.P.	

Parker & Parsley Development L.P. LUSK DEEP "A" OPERATOR LEASE R-32-E 1651' FNL & 330' FEL SEC-20 T-19-S 15 FOOTAGE LOCATION SECTION TOWNSHIP RANGE WELL NO. 11/22/88 TYPE OF WELL: PRODUCING OIL AND GAS WELL SPUD DATE: SCHEMATIC TABULAR DATA 1. SUFACE CASING 1000 SIZE: 13-3/8 INCHES CEMENTED WITH: SX FEET DETERMINED BY: Circulated Surface TOC: 13-3/8" HOLE SIZE: 17-1/2 INCHES 2. INTERMIDIATE CASING 700 sx 8-5/8 INCHES CEMENTED WITH: SIZE: TOC: 2370 FEET DETERMINED BY: Temp. Survey HOLE SIZE: 12-1/4 INCHES 4500 8-5/8" 3. LONG STRING 600 sx 5-1/2 INCHES CEMENTED WITH: SIZE: TOC: 4690 FEET DETERMINED BY: Temp. Survey HOLE SIZE: 7-7/8 INCHES 4. TOTAL DEPTH: 7220 FEET 5. PERFORATIONS 6478 FEET FEET TO: (PERFORATED OR OPEN HOLE: INDICATE WHICH) "PERFORATED"

فيدو

PERFS

6468'-6478'

4 SXS CMT CIBP @ 7030' FORM C-108 SECTION VI

APPLICATION FOR AUTHORIZATION TO INJECT

Parker & Parsley Development L.P.

WATER INJECTION WELL

HAC	KELFOR	D OIL			MOBIL FE	DERAL		
PERAT	OR				LEASE			
			1650' FNL & 1650' FV	/L	SEC-21	T-19-S	R-32-E	
	WELL NO).	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE	
	TYPE OF WE	ш:	PRODUCING OIL AN	D GAS WE	Ц	SPUD DATE	: 8/30/88	
,	SCHEM	ATIC	1. SUFAC	E CASING		TABULAR DATA		
			SIZE:	13-3/8	INCHES	CEMENTED WITH:	475	sx
		454'				•	Circulated	
			HOLE SIZE:		17-1/2	INCHES		
			2. INTERN	IIDIATE CA	SING			
			SIZE:	N/A	INCHES	CEMENTED WITH:	N/A	sx
			TOC:	N/A		FEET DETERMINED BY:	N/A	
			HOLE SIZE:		N/A	INCHES		
13-3/8		454'	3. LONG	TRING				
			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. PERFO	RATIONS	6490	FFFT TO.	6495 FEE	
						FEET TO:	ICATE WHICH)	: 1
						"PERFORAT	20 ,	
					غورد غورد			
							FORM C-108 SECTION VI	
		PERFS 6490-645	95			APPLICATI	ION FOR AUTHORIZATION	N
5 -1		6690'					arker & Parsley evelopment L.P.	

WATER INJECTION WELL

HAC	KELFOR	OOL			LYNCH					
PERAT	OR				LEASE					
	3		678' FSL & 1992' FWL		SEC-21	T-1	9- S	R-32-E		
	WELL NO		FOOTAGE LOCATION		SECTION		NSHIP	RANGE		
	TYPE OF WEL	1.:	PRODUCING OIL AND	GAS WELI	<u> </u>	SPUI	D DATE:_	11-14-42 RE-ENT	RY 10-6-	-95
	SCHEMA	ATIC	1. SUFACE	CASING		TABULAR DA	AIA			
			SIZE:	8-5/8	INCHES	CEMENTED WITH	: <u> </u>	50		_sx
			TOC: SE	urface		FEET DETERMINI	ED BY:	Circula	ted	
			HOLE SIZE:		11	INCI	HES			
		925	2. INTERMIC	DIATE CAS	SING					
			SIZE:	N/A	INCHES	CEMENTED WITH	l: _	N/A		sx
			тос:	N/A		FEET DETERMINI	ED BY:	N/A		
			HOLE SIZE:		N/A	INC	HES			
8-5/8"		925'	3. LONG ST	RING						
			SIZE: 4-	1/2 & 5-1/2	2 INCHES	CEMENTED WITH	l: <u>-</u>	50		sx
			тос:	2400		FEET DETERMIN	ED BY: _	Calculat	ion	
			HOLE SIZE:		7-7/8	INC	HES			
			4. TOTAL D	EPTH:	2776	FEE	т			
	-		5. PERFORA	ATIONS						
					2637		T TO:	2737	FEET	
					(PERFORAT	ED OR OPEN HOL "PERF	E ; INDICA ORATEI			
	4-1/2"	2340'								
					; <u>=</u>					
		3333333						FORM C-108 SECTION VI		
	a production of the control of the c	PERFS 2637'-2737			•.	APPI		N FOR AUTHORIZ TO INJECT	ATION	
	5"	2739'	•					ker & Parsiey elopment L.P.		
		7776' מד					WATER	INJECTION WELI	L	

TABULATION OF WELL DATA

to the Late and desired appropriate to

WELL DATA SHEET

SHAL	NELFORD OIL				ROMMAN					
OPERA	FOR				LEASE				*-	
	2	660' F	NL & 1980' FW	L	SEC-28		T-19-S	R-32-	Æ	
	WELL NO.		GE LOCATION		SECTION		TOWNSHIP			
	TYPE OF WELL:	PROD	UCING OIL AN	D GAS WE	LL		SPUD DATE	:9/3	30/42	
	SCHEMATIC	=	1. SUFAC	E CASING		TABULAF	R DATA			
			SIZE:	8-5/8	INCHES	CEMENTED	WITH:	5	0	sx
			TOC:	Surface		FEET DETE	RMINED BY:	Circ	ulated	-
			HOLE SIZE:		11	·	INCHES			
•			2. INTERN	MIDIATE CA	SING					
			SIZE:	N/A	INCHES	CEMENTED	WITH:	N/	<u>'</u> A	sx
			TOC:	N/A		FEET DETE	RMINED BY:	N/	Ά	
			HOLE SIZE:		N/A		INCHES			
8-5/8"		928'	3. LONG	STRING						
			SIZE:	5-1/2	INCHES	CEMENTED	WITH:	5	0	sx
			TOC:	2540		FEET DETE	RMINED BY:	Calcu	lated	
			HOLE SIZE:		7-7/8		INCHES		-	
			4. TOTAL	DEPTH:	2771	-	FEET			
			5. PERFO	RATIONS						
					2709	ED OR OPEN	FEET TO:	2750 CATE WHICH)	FEET	
					(FERFORATI		ERFORAT			
	259									
					냺			FORM C-108		
								SECTION VI		
		ERFS 709-2750				,	APPLICATI	ON FOR AUTHOR TO INJECT	LIZATION	
		750°						rker & Parsley		
5-	1/2" - 2	130					υe	velopment L.P	•	

WELL DATA SHEET

SHA	CKELFOR	OIL			AMOCO F	EDERAL			
OPERA	TOR				LEASE				
	1		660' FNL & 330' FWL		SEC-21	T-19-S	R-32-6	5	
	WELL NO		FOOTAGE LOCATION		SECTION	TOWNSHIP			
	TYPE OF WEI	LL:	PRODUCING OIL AN	D GAS WE	LL	SPUD DATE	:9/2:	3/88	
						•			
	SCHEMA	ATIC	1. SUFAC	E CASING		TABULAR DATA			
						CEMENTED WITH:	47	5	sx
			TOC:	Surface		FEET DETERMINED BY:	Circu	lated	
13-3/8"		450	HOLE SIZE:		17-1/2	INCHES			
			2. INTERN	MIDIATE CA	ASING				
	A. C.	4250'	SIZE:	8	INCHES	CEMENTED WITH:	215	io	sx
			TOC:	Surface		FEET DETERMINED BY:	Circu	lated	
	5"		HOLE SIZE:		11	INCHES			
•		4250	3. LONG	STRING					
	MILENIA		SIZE:	5-1/2	INCHES	CEMENTED WITH:	52	5	sx
		**************************************	TOC:	4550		FEET DETERMINED BY:	Temp. S	urvey	
		500 See See See See See See See See See S	HOLE SIZE:		7-7/8	INCHES			
			4. TOTAL	DEPTH:	6650	FEET		•	-
			5. PERFO	RATIONS					
					6490	FEET TO:	6493	FEET	
		PERFS 4892'-4906'			(FERFORM)	ED OR OPEN HOLE; INDI PERFORAT!			
		PERFS 4892-4906							
					فصد				
							FORM C-108 SECTION VI		
	See Sun Fee Sun	PERFS 6490'-6493	,			APPLICATI	ON FOR AUTHOR TO INJECT	IZATION	
							rker & Parsley velopment L.P.		
	5-1/2"	6650*				De	Actobilicit P.L.		•

WATER INJECTION WELL

DATA SHEET ON PROPOSED OPERATIONS SECTION VII

FORM C-108

SECTION VII

- Proposed Average Daily Injection Rate 4500 BWIPD
 Proposed Maximum Daily Injection Rate 6000 BWIPD
- 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.



HOBBS, NEW MEXICO 88240

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.

enny Learney

FORM C-108 SECTION VII ITEM #4

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

RESULT OF WATER ANALYSES

		9061	4. 1		
		0_14			
		9 21			
RI	ESULTS REPORTED_	8-21	-96		
	see Prong	horn SWD			
	40E				
	a crar	- NM			
COUNTY	51A1	5			
n inlet to our	harral 8_16	-96			
			2 tor nump) 8-16		
			acer pump). 0-10-		
n outlet from	gumbarrel. 8	-16-96			
	·	· · · · · · · · · · · · · · · · · · ·			
 					
CAL AND PHYSICAL	PROPERTIES				
NO. 1	NO. 2	NO. 3	NO. 4		
1.1436	1.1718				
<u> </u>		· · · · · · · · · · · · · · · · · · ·			
	78				
0	8	. <u> </u>			
		· · · · · · · · · · · · · · · · · · ·			
		·			
	2,916				
	66,136				
		·			
	160,503				
11.3	10.5				
219,202	258,417				
301	86				
0.054	0.050				
		1,027			
			· · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·					
None	None				
and Second to Million	ma Carliba				
		omportibili	hatriaca		
		outa nos pe (=vherren		
DIECTRICACTOR	·				
		•			
7.5		79	•		
		110			
	N 72	1			
	Lusk COUNTY Le Lusk COUNTY Le n inlet to gur n Southern Cal n outlet from CAL AND PHYSICAL NO. 1 1.1436 6.19 273 0 58,000 19,200 2,430 61,402 960 134,936 11.3 219,202 301 0.0 0.054 None None None None None None None Suits Reported As Milligrative herein is ly of the wate lixing of these	SAMPLE RECEIVED RESULTS REPORTED	Lusk COUNTY Lea STATE NM In inlet to gunbarrel. 8-16-96 In Southern California heater treater (with outlet from gunbarrel. 8-16-96 CAL AND PHYSICAL PROPERTIES NO.1 NO.2 NO.3 1.1436 1.1718 6.19 6.18 273 78 0 8 58,000 83,000 19,200 28,400 2,430 2,916 61,402 66,136 960 384 134,936 160,503 11.3 10.5 219,202 258,417 301 86 0.0 0.0 0.0 0.054 0.050 1,027 None Street Lier Live herein is to evaluate compatibility ity of the waters has revealed no evidency ixing of these two waters would not be oprecipitation.		

Form No. 3

FORM C-108 SECTION VII ITEM #4

Waylan C. Martin, M.A.

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 583-1040

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

RESULT OF WATER ANALYSES

	LA	BORATORY NO				
ro: Mr. David Shrauner	SA	MPLE RECEIVED	8-19-9			
P O Drawer E, Kermit, TX 79745	AS	RESULTS REPORTED 8-21-96				
COMPANY_Parker & Parslev	1 54	se As 1	isted			
FIELD OR POOL	Lusk	VC				
SECTION BLOCK SURVEY	COUNTY Le	a stat	= NM			
OURCE OF SAMPLE AND DATE TAKEN:		JIA1	C			
NO.1 Supply water - taken from L	usk Deep #7.					
NO.2 Produced water - taken from		fornia #5		· · · · · · · · · · · · · · · · · · ·		
NO.3 Produced water - taken from	Southern Call	Tornia #/.				
NO. 4		 				
EMARKS:	. 6,400' 3.	4,700'				
CHEMI	CAL 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						
gH When Received	5.80	6.31	6.41			
Bicarbonate as HCO,	488	51	54			
Supersaturation as CaCO,		6	4	· · · · · · · · · · · · · · · · · · ·		
Undersaturation as CaCO,	10					
Total Hardness as CaCO,	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,	3,785	313	362			
Chloride as CI	22,016	164,764	163,344			
Iron as Fe	60.8	2.4	5.2			
Sarium as Sa						
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 Cil	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			
	,,,					
Re	sults Reported As Milligram	s Per Liter				
Additional Determinations And Remarks						
				 -		
				·····		
Form No. 3 FORM C-108						

Form No. 3 FORM C-108 SECTION VII ITEM #4 P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040

709 W. INDIANA MIDLAND, TEXAS 79701

RESI	ULT OF WATER AN	ALYSES		FRUNE 983-452
TO: Mr. David Shrauner P O Drawer E, Kermit, TX 79745	SA	BORATORY NO MPLE RECEIVED SULTS REPORTED	896140 (Page 8-19-96 8-21-96	
COMPANY <u>Parker & Parsley</u>	Lusk	se <u>As list</u>	ed	
SECTION BLOCK SURVEY		STATE	NM	
SOURCE OF SAMPLE AND DATE TAKEN: NO.1 Composite Southern California				<i>#</i> 7).
NO.2 Hypothetical combination of	25% Lusk #7 8	75% composite	Southern	California.
NO.3 Hypothetical combination of	50% Lusk #7 8	50% composite	Southern	California.
NO.4 Hypothetical combination of	75% Lusk #7 8	25% composite	Southern	California.
REMARKS:				
CHEMICA	AL AND PHYSICAL	PROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4

CHEMI	CAL AND PHYSICA			
	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,	53	<u> </u>		
Supersaturation as CaCO,				
Undersaturation as CaCO,	47 44			
Total Hardness as CaCO ₁	82,500			<u> </u>
Calcium as Ca	28,800	22,230	15,660	9,090
Magnesium as Mg	2,552			
Sodium and/or Potassium	68,637			
Suitate as SO.	338	1,200	2,062	2,923
Chloride as C:	164,054	128,545	93,035	57,526
iron as Fe	3.8			
Sarium as Sa		-		
Turbidity, Slectric				
Color as Pt				
Fotal Solids, Calculated	264,432			
Temperature *F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, coms/m at 77° F.	0.050			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Sulfate Scaling Tendency	None	Mild	Moderate	Severe
	sults Reported As Milligra	ms Per Liter		
Additional Determinations And Remarks Letter of re	commendation	attached.		
				
				
			35.3	

Form No. 3 FORM C-108 SECTION VII ITEM #4

Waylan C. Martin, M.A.

Martin Water Laboratories, Inc.
P. O. BOX 1468
WATER CONSULTANTS SINCE 1953
MONAHANS, TEXAS 79756
BACTERIAL AND CHEMICAL ANALYSES
(915) 943-3234 or 563-1040

August 21, 1996

709 W. INDIANA MIDLAND, TEXAS 79701 (915) 683-4521

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.
- 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.

Waylan C. Martin

WCM/mo

FORM C-108 SECTION VII ITEM #4

GEOLOGICAL DATA SHEET SECTION VIII

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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 authigentic 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



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 utilizating 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



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. 🕦

Jeanie Dodd

Proration Analyst

PETROLEUM USA, INC.

P. O. Box 3178 • Midland, Texas 79702-3178 303 West Walt • 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

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

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:

Parker & Parsley Development L.P. is applying to the Oil Conservation Division for authorization of a water injection project for secondary recovery of hydrocarbons utilizating 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. 32

Jeanie Dodd

Proration Analyst

P. O. Box 3178 • Midland, Texas 79702-3178 303 West Watt • 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:

Parker & Parsley Development L.P. is applying to the Oil Conservation Division for authorization of a water injection project for secondary recovery of hydrocarbons utilizating 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

P. O. Box 3178 • Midland, Texas 79702-3178 303 West Watl • 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:

Parker & Parsley Development L.P. is applying to the Oil Conservation Division for authorization of a water injection project for secondary recovery of hydrocarbons utilizating these subject wells as injectors.

1

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