Form 3160-3 (July 1992)

N. M. OIL CONS. COMPLISSION

P. O. BOXSUMONTI ATE.

UNITED STATES HOBBS, NEW MEXICOS 88240

TMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0136

Expires: February 28, 1995

						NM LC063586	AND SERIAL NO.
	BUREAU (OF LAND MANA	AGEMEI	$^{ m VT}$ RECEL	VFD	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
AP	PLICATION FOR	PERMIT T	O DR			N/A	ON TRABE WANG
h. TYPE OF WELL OIL	DRILL X	DEEPEN		1441 MAY 2 T	1# C	Unit-	ifornia Federa
WELL 2. NAME OF OPERATOR	WELL OTHER	WIW		ROSWELL ROSWELL		FARM OR LEASE NAM	10 WI
	ey Development L.P.					9. API WELL NO.	
3. ADDRESS AND TELEP				015	F71 0070		
4. LOCATION OF WELL (Report location clearly and in acc	ordance with any State	requiremen		571-3976	10. FIELD AND POOL, OR Lusk Delaware	
At surface	SL & 2000' FEL. Sec.		•	Saijes i 1			
At proposed prod. zor				Like App By State	(OTEL	11. SEC., T., R., M., OR B AND SURVEY OR ARE.	
Same As Above	WAT AND DIRECTION FROM NEAREST T			10H:		Sec. 29, T19S	
40 miles West-	Southwest of Hobbs,					12. COUNTY OR PARISH	13. STATE
15. DISTANCE FROM PRO LOCATION TO NEAR	EST		16. NO. C	F ACRES IN LEASE	17. NO. OF A	ACRES ASSIGNED	
PROPERTY OR LEASE (Also to nearest drig.	unit line, if any) 450		560		TOTTHS	40	
18. DISTANCE FROM PRO TO NEAREST WELL, I	ORILLING, COMPLETED,		1	OSED DEPTH		OR CABLE TOOLS	
OR APPLIED FOR, ON 21. ELEVATIONS (Show	whether DF,RT, GR, etc.)		7200	<u> </u>	Rota	ry 22. APPROX. DATE WO	RK WILL START*
GR 3551'						July 20, 19	97
23.		PROPOSED CASING	AND CE	MENTING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	от	SETTING DEPTH		QUANTITY OF CE	MENT
17 1/2"	13 3/8", J-55	54.5#		850'	675 sx	CIRCULATE	
7 7/8"	8 5/8", J-55 5 1/2", K-55	24# & 32 15.5#	#	4200' 7200' TD		x - Two Stage	
SEE ATTACH	PROPERTY POOL COD	NO. 16 9/8/ 30-025	140 197 1-341	30	1250 s		
leepen directionally, give	Butt Huth	ons and measured and t	true vertica	ta on present productive zo: depths. Give blowout prev	enter program,	if any. DATE 5/14/9	
(This space for Federa	al or State office use)					DATE	
(space for rough	ون والله الله الله الله الله الله الله الل	oval Subj ect to wal Requir eme	nde				
PERMIT NO.	Spec	izi Stiputations		APPROVAL DATE	······	 	
Application approval does CONDITIONS OF APPR			to those right	s in the subject lease which would	dentitle the applica	ant to conduct operations therec	no.
APPROVED BY	(ORIG. SGD.) TONY	E FERGUSON	c	ADM, MI	NERALS	DATE (/-	2-47

*See Instructions On Reverse Side

TITLE

DATE -

ATTACHMENT Southern California Federal Unit #10 WIW

The operator proposes to drill to a depth sufficient to test all of the Delaware Sands for oil. If productive, 5 ½" casing will be cemented at TD. If non-productive, the well will be plugged and abandoned in a manner consistent with Federal regulations. Specific plans, as per On Shore Oil & Gas Order #1 are included in the following attachments

DRILLING PROGRAM

SURFACE USE AND OPERATING PLAN

Exhibit #1 - BOPE Schematic

Exhibit #2 - Location & Elevation Plat Exhibit #3 - Lease Road & Topo Plat

Exhibit #4 - Highway Access Plat

Exhibit #5 - Existing Wells in One Mile Radius Exhibit #6 - Water Injection System - Schematic Exhibit #7 - Water Injection Distribution Lines Exhibit #8 - Water Injection System - Topo Plat Exhibit #9 - Drilling Rig Layout - Schematic

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DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Depart.

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

DISTRICT IV

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
30-025-3413D	41540		
Property Code	Propert	Well Number	
016683	Southern Califo	10 WIW	
OGRID No. 036324	Operato PARKER &	Elevation 3551	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	ı
0	29	19 S	32 E		450	SOUTH	2000	EAST	LEA	

Bottom Hole Location If Different From Surface

			_						
UL or lat No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

DARLO UNIT HAS BEEN APPROVED BY I	IL DIVISION
	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
3553.4' 3553.8'	J. Britt Hirth Printed Name Sr. Operations Engineer
3548.7' 3550.7' <u>DETAIL</u>	5/14/97 Date SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was plotted from fleid notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my bettef. FEB. 1, 1997
SEE DETAIL	Date Sure Sure Seal SUS Signature As Seal Sure Sure Seal Sure Sure Sure Sure Sure Sure Sure Sure
2000.	Certificat No. John Wowst 676 RONAL FIDSON 3239 POFES CARD FOSON 12641

DRILLING PROGRAM

Attached to Form 3160-3

Parker & Parsley Development L.P.

Southern California Federal Unit No. 10 WIW

450' FSL & 2000' FEL

SW/SE, Sec. 29, T19S, R32E

Lea County, New Mexico

1. Geologic Name of Surface Formation:

Quaternary Alluvium & Bolson deposits (dune sand; sandy, silty clay)

2. <u>Estimated Tops of Important Geologic Markers</u>:

Anhydrite	850'
Salt	975'
Base of Salt	2475'
Yates	2625'
Delaware Sands	4425'
Bone Springs Lime	7125'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Surface Water Sands	above 250'	Fresh water
Yates	2625'	Oil
Delaware	4425' to 7100'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13-3/8" casing at 850' +/- and circulating cement to the surface. Potash will be protected by setting 8-5/8" casing at 4200'+/- and circulating cement back to the surface with the use of a stage tool at 2600'+/-. In the event 5-1/2" production casing is set, sufficient cement volume will be pumped to attempt to fill the entire annular area from TD to surface.

4. <u>Casing Program</u>:

Hole Size	Interval	OD csg	Weight, Grade, Jt., Cond. Type
17-1/2"	0 - 850'	13-3/8"	54.5#, J-55, ST&C, New
11"	0 - 2600'	8-5/8"	24#, J-55, ST&C, New
11"	2600 - 4200'	8-5/8"	32#, J-55, ST&C, New
7-7/8"	0 - 7200'	5-1/2"	15.5#, K-55, LT&C, New

SOUTHERN CALIFORNIA FEDERAL UNIT No. 10 WIW DRILLING PROGRAM PAGE 2

Cementing Program:

13-3/8" Surface Casing

475 sx 35/65 Poz "C", 6% gel., 5% salt, 1/4#/sx cellophane flakes; followed by 200 sx "C", 2% CaCl, 1/4#/sx cellophane flakes.

8-5/8" Intermediate: (Stage Tool @ 2600')

1st stage: 500 sx 35/65 Poz "C", 6% gel., 5% salt, 1/4#/sx cellophane; followed by 200 sx "C", 1% CaCl, 1/4#/sx cellophane flakes.

2nd stage: 800 sx 35/65 Poz "C", 6% gel., 5% salt, 1/4#/sx cellophane flakes; followed by 125 sx "C", 2% CaCl, 1/4#/sx cellophane

flakes.

5-1/2" Production Casing:

1250 sx 50/50 Poz "C", 2% gel., 5% salt, 0.5% FL-25 (Fluid Loss). This is designed

to bring cement to surface.

5. <u>Minimum Specifications for Pressure Control:</u>

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (3000 PSI WP) preventer and a bag-type (Hydril) preventer (3000 PSI WP). Both units will be hyraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOP's will be installed on the 13-3/8" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 PSI before drilling out of surface casing. Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000 PSI and the bag-type (Hydril) preventer will be tested to 70% of rated working pressure (2100 PSI).

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily time sheets.

A 2" kill line and a 3" choke line will be installed on the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include the choke lines and choke manifold (3000 PSI WP), kelly cock and floor safety valve (inside BOP).

SOUTHERN CALIFORNIA FEDERAL UNIT NO. 10 WIW DRILLING PROGRAM PAGE 3

6. Types and Characteristics of the Proposed Mud System:

This well will be drilled to TD with a combination of fresh water, brine and fresh water polymer systems. The applicable depths and properties of systems are planned as follows:

		WEIGHT	VISCOSITY	WATER LOSS
DEPTH	<u>TYPE</u>	(ppg)	(Sec)	(cc)
0 - 850'	Fresh Water-Gel	8.4 - 8.9	30 - 32	25cc - N/C
850 - 4200'	Brine Water	9.9 - 10.1	28 - 29	N/C
4200 - 6000'	Fresh Water	8.4 - 8.5	28	N/C
6000 - TD	Fresh Water, Gel,	8.7 - 9.1	30 - 36	12 cc
	Polymer			

Loss of circulation may occur in the Capitan Reef at about 2800'. If loss can not be corrected reasonably, it may be necessary to dry-drill from the loss depth to 4200'+/-. Sufficient mud mixing materials to maintain the mud properties and to meet reasonable lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. <u>Auxiliary Well Control and Monitoring Equipment:</u>

- A. A lower kelly cock will be in continuous service while drilling.
- B. A fully opened, fully serviceable drillpipe stabbing valve (inside BOP) with proper drillpipe connections will be on the rig floor at all times.
- C. No H2S gas or abnormal pressures are known to exist, in this heavily developed area, down to the proposed TD. Therefore, no pit-volume totalizing system will be employed. The drilling fluid system will be visually monitored at all times.

8. <u>Logging, Testing and Coring Program:</u>

- A. A two man mud logging unit will be in service from 4200' to TD.
- B. No drill stem tests are planned for this well.
- C. Open hole electric logs at TD are planned to be as follows:

Dual Lateralog (DLL) w/MSFL (Micro Spherical Focused Log) w/GR and Caliper from TD to base of 8-5/8 casing at 4200'+/-. Compensated Neutron w/Z-Density & GR & Caliper from TD to 4200'; Gamma-Ray to surface.

SOUTHERN CALIFORNIA FEDERAL UNIT NO. 10 WIW DRILLING PROGRAM PAGE 4

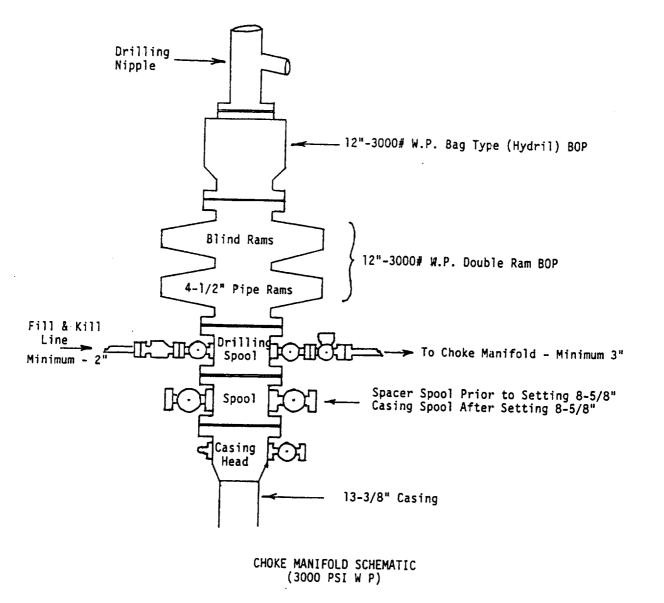
- D. No conventional cores are planned
- E. Additional evaluation may be required by the company geologist based on drilling shows and log evaluation.

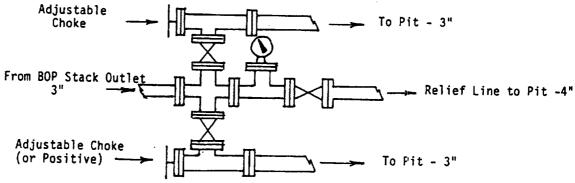
9. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is expected to be 135°F and the estimated maximum bottom hole pressure (BHP) is 2800 PSI. No H2S or other hazardous gases or fluid have been encountered, reported or are known to exist to this depth in this area. Some wells in this area have encountered severe to total loss of circulation in the Capitan Reef at about 2800'. If this occurs at this location, several attempts will be made to regain circulation, but if it appears necessary, the well will be dry-drilled to the intermediate casing depth of 4200'+/-.

10. Anticipated Starting Date and Duration of Operations:

Location construction work will not begin until approval has been received from the BLM. The anticipated spud date will be around July 20, 1997. Once commenced, the drilling operations should be completed in approximately twenty (20) days. If the well is productive, an additional thirty (30) days will be required for completion and testing before a decision is made to tie into permanent water injection facilities.





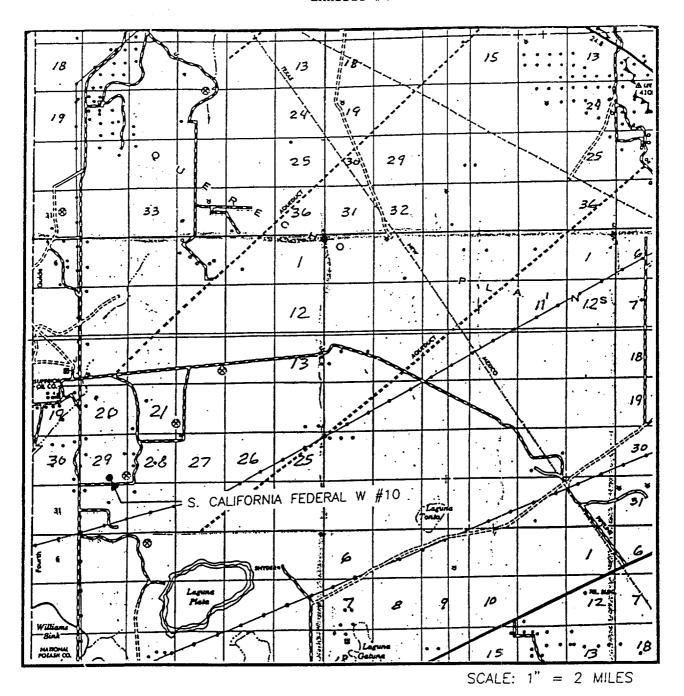
Parker & Parsley Development L.P.

BOPE SCHEMATIC (3000 PSI W.P.) Southern California Federal Unit No. 10 WIW Lea County, New Mexico Scale: 1"= 50' Date: April 1997

EXHIBIT #1

VICINITY MA?

EXHIBIT #4



 SEC. 29 TWP. 19-S RGE. 32-E

 SURVEY N.M.P.M.

 COUNTY LEA

 DESCRIPTION 450' FSL & 2000' FEL

 ELEVATION 3551

 CPERATOR PARKER & PARSLEY

LEASE S. CALIFORNIA FEDERAL W

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117