Form 3160-3 (August 2007)

#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FĠ	ATS-13-955
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Expires	July 31, 2010

OCD Hobbs

	~~~	Lease Seriai No.			
S	OCH	SWD-1306	<sup>vo.</sup> NMLC 061936 <i>i</i>		

APPLICATION FOR PERMIT TO DRILL OR REENTER	A. O. C.		an, Allotee or Tribe Name
	80 1101	Soles	

13. State   14. Distance in miles and direction from nearest town or post office*   12. County or Parish   13. State   17. Spacing Unit dedicated to this well   18. Distance from proposed location* to nearest drig, unit line, if any)   18. Distance from proposed location*   14.1' P&A   19. Proposed Depth   PBTD 7,000'   NAB000612   20. BLM/BIA Bond No. on file   NAB000612   21. Elevations (Show whether DF, KDB, RT, GL, etc.)   22. Approximate date work will start*   23. Estimated duration   10 days   24. Attachments   25. Operator certification   25. Operator	0.	reement, Name and No.	1 ,	a. Type of work: DRILL REENTER					
3a. Address P. O. Box 1479, Carlsbad, NM 88221  3b. Phone No. (include area code). 575-706-1840  4. Location of Well (Report location clearly and in accordance with any State requirements.*)  At surface 2080' FNL & 760' FWL At 14' P&A 15 Distance from proposed 15 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  15. Distance from proposed location* 141' P&A 19 Distance from proposed location* 141' P&A 19 Distance from proposed location* 15 Distance from proposed location* 16 Distance from proposed location* 16 Distance from proposed location* 17 Distance from proposed location* 18 Distance from proposed location* 19 Proposed Depth 10 Distance from proposed location* 15 Distance from proposed location* 15 Distance from proposed location* 16 Distance from proposed location* 17 Distance from proposed location* 18 Distance from proposed location* 19 Distance from proposed location* 19 Distance from prop		WADNO.	Lease Name and	RECT			w. u. Mod		
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Approved by (Signature)  /S/ STEPHEN J. CAFFEY  Name (Printed/Typed)  Date  JAN -	 - 7 20	Date JAN - 7			(Printed/Typed)	Nan	EN J. CAFFEY	re)	Approved by (Signatu
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Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  APPROVAL FOR TWO YE		entitle the applicant to	abject lease which would e	hts in the sul	table title to those righ	s legal or eq	ify that the applicant hold		

conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

Carlsbad Commune Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

## Mesquite SWD, Inc. RE-ENTRY PROGRAM

Cotton Draw #66 API: 30-025-22024 Sec. 10, T25S-R32E Lea Co., NM

Supplemental to Form 3160-3, Application for Permit to Re-enter the subject well, Mesquite SWD, Inc submits the following information as per Bureau of Land Management requirements.

# 1. Geologic Name of Surface Formation

Surface is Quaternary eolian and piedmont deposits (Qep) Holocene to middle Pleistocene. (New Mexico Bureau of Geology and Mineral Resources, 2003, Geologic Map of New Mexico, 1:500,000)

# 2. Formation Tops and Estimated Fresh Water:

The of geologic markers and estimated depths at which anticipated water, oil or gas formations are expected to be encountered as follows: Sonic log tops in this well.

B/Alluvium	83'	Est: potable water, if present, approx 80'.
Rustler	790'	
Salado	1,153'	
Top main salt	2,338'	
Base of salt	4,430'	
Lamar limestone	4,653'	
Bell Canyon	4,727'	Possible residual hydrocarbons in upper 80'
Cherry Canyon	6,115'	
Brushy Canyon	7,002'	Note: PB TD will be 7000' KB
Bone Springs	8,396'	·

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

None of the above formations were found to be commercially productive of oil or gas, or are depleted, in the disposal interval of this well or other wells in the NM OCD half-mile area of review above the Brushy Canyon. No fresh water wells are known in the NM OCD 2-mile area of review, none would be expected beneath the Alluvium, however, potential shallow sands are protected by 13-3/8" casing set at 604' and cement circulated to the surface.

#### 4. Casing: NOW in hole, no casing pulled. JOINT TYPES NOT REPORTED BY TEXACO.

Hole Size	Casing	Depth Set	Cement	Top Cement
17-1/2"	13-3/8" H-40 48#	604'	725 sx	Circulated
12-1/4"	10-¾" J-55 45.5#	4,980'	2050 sx	Not Circulated
8-3/4"	7-%" P-110 33.7#	12,913'	2005 sx	3820' TS
NR	5-½" 26# C-75 liner	15,769'	350 sx	12,538'

Minimum Casing Design Factors: Burst 1.0, Collapse 1.125. Tensile unavailable (joint types unknown).

- 5. Cement Program: No cementing is needed or required in this re-entry. Original completion no casing pulled. The following is original Texaco cementing report, no additional info has been found:
  - 13-3/8" Surface casing w/425 sx Trinity Lite Wate, plus 300 sx Class "C" neat. Circulated.
  - 10-3/4" Intermediate string First stage 650 sx Trinity Lite Wate and 200 sx Class "C" neat circulated. Second stage (depth NR) 1200 sx Trinity Lite Wate, cement did not circulate.
    - First stage 600 sx Trinity Lite Wate and 300 sx Class "C". Second stage DV 4,806' w/1105 sx Trinity Lite. TOC 3,820' TS.
  - 5-1/2" Liner (3,215') Class "C" circulation NR, calculates 45% excess.

Mesquite SWD, Inc will run necessary casing logs and perform cementing as required to insure cement isolation of the salt section.

## 6. Proposed Mud Circulation System:

Drilling and returned circulation will be from and to a closed loop-like system w/surface tanks. No earthen mud or reserves pits will be constructed or used for this re-entry. Drilling fluids and cuttings, if any, will be trucked to a certified disposal facility upon completion of re-entry operations. Cement cuttings will be removed to a certified disposal facility.

### 7. Pressure Control Equipment:

BOP and BPOE are illustrated in Exhibit A and Exhibit A-1 below. BOPE will consist of a double ram-type (5M) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2. 5000# BOP TESTED TO 3000#. BOP and BPOE will be tested to 3000 psi on 13%" casing and on 10¾" casing held for 30 minutes after drilling-out the surface plug.

BOP will be operationally checked each 24 hour period. BOP will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and a 3" choke line will be included in the drilling spool located below the BOP. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 5000 psi working pressure rating.

Vent line will extend to pad margin to provide sufficient distance, approximately 150' to flare boom, from any ignition source in the event natural gas should be encountered. No gas was encountered to TD in the original drilling of the hole. Additionally, the entire hole is cased and cemented.

8. Estimated BHP: At the top of original cased-hole cement plug on CIBP at 12,250' in the 7-5%" the estimated BHP will be 5512 psi.

9. Mud Program: Hole is cased, but necessary mud for abnormal situations will be on hand.

Depth	Mud Wt.	Viscosity	Fluid Loss	Type Mud
0 - 12,250'	8.4 - 8.5	30 - 32	NC	Fresh water

Fresh water will be used for the re-entry mud system, approximately 0.431 lbs/ft or greater. The closed-loop mud system and equipment will be monitored visually to determine volume changes and mud condition as per Onshore Order 1 requirements. Mud will be on location in the event of unusual conditions.

## 10. Auxiliary Well Control and Monitoring Equipment:

a. A Kelly cock will be in the drill string at all times.



b. H<sub>2</sub>S detection equipment will be in operation during the drilling operation. H<sub>2</sub>S is not considered a potential hazard because it was not reported in the original drilling and the entire hole is cased and cemented.

# 11. Logging, Coring, and Testing Program:



No formation logging, coring, or testing is anticipated.

### 12. Potential Hazards:

No abnormal pressures or temperatures were reported in the original drilling operations. No  $H_2S$  was encountered in the original drilling operations. All personnel will be familiar with all aspects of safe operation of equipment being used to re-enter this well.

## 13. Anticipated Starting Date and Duration of Operations:

Road and location remediation will begin as soon as the BLM approves the APD. Move-in and re-entry is expected to require approximately 15 days.

## 14. Anticipated Starting Date and Duration of Operations:

Road and location repair will begin after the BLM has approved the APD. Re-entry date will follow as soon as rig/work-over unit and equipment are available. Re-entry, well preparation for injection, and lease clean-up are expected to require approximately 15 days.

## Addendum: Non-productive zones

Many wells in the surrounding area have tested, completed in and/or depleted the upper Ramsey of the Bell Canyon in the AOR, including the drill site acreage. Numerous deeper wells have drilled, evaluated and/or tested the sub-Ramsey/Olds Bell and the Cherry Canyon in the greater area and have been unable to demonstrate production or commercial potential. The subject re-entry was an exploratory test well for the above zones and down into the Morrow. This test well did not report shows or commercial potential below the Ramsey/Olds or above the Brushy Canyon. This re-entry will isolate both the Ramsey/Olds interval above as well as the underlying Brushy Canyon where some hydrocarbon potential may present an exploration target for horizontal drilling.

Mesquite SWD, Inc. Cotton Draw #66 2080' FNL & 760' FWL Sec. 10, T25S-R32E Lea Co., NM

## Addendum: Well Diagrams

#### PLUG AND ABANDON WELL DIAGRAM

3002522024

Operator: Texaco, Inc.

Lease: Cotton Draw Unit

Location: Sec 10, T25S-R32E Lea Co., NM

Footage: 2080 FNL, 760 FWL

Well No:

KB:

3480

GL: Spud date: 3461

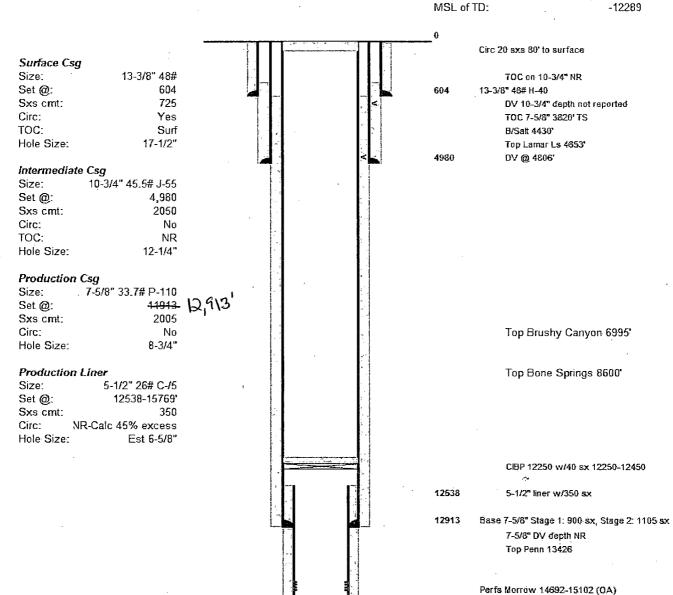
Plugged:

Dry in tests

PBTD 15722

15769

February 20, 1967 July 25, 1968



Not to Scale

## Proposed Re-completion of Cotton Draw #66 for SWD

#### RECOMPLETION FOR SWD WELL DIAGRAM

API:

3002522024

Operator: Mèsquite SWD, Inc.

Lease:

Cotton Draw

Footage: 2080 FNL, 760 FWL

Location: Sec 10, T25S-R32E Lea Co., NM

Well No: 66

KB:

3480

GL:

3461

Spud date: Plugged:

February 20, 1967

MSL of TD:

July 25, 1968 -12289

Surface Csq

Size: 13-3/8" 48# Set @: 604 725 Sxs cmt: Circ: Yes TOC: Surf Hole Size: 17-1/2"

Intermediate Csg

10-3/4" 45.5# J-55 Size: Set @: 4,980 Sxs cmt: 2050 Circ: No TOC: NR Hole Size: 12-1/4"

**Production Csg** 

7-5/8" 33.7# P-110 Size: -11913 12913 Set @: Sxs cmt: 2005 Circ: No Hole Size: 8-3/4"

**Production Liner** 

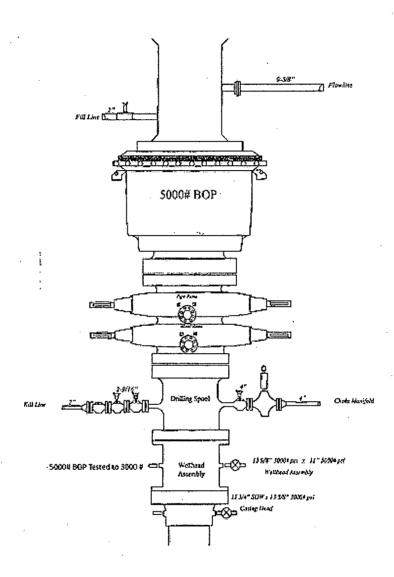
5-1/2" 26# C-/5 Size: Set @: 12538-15769"

Sxs cmt:

NR-Calc 45% excess

Hole Size:

Est 6-5/8\*



5000# BOP Tested to 3000# Cotton Draw #66 Mesquite SWD, Inc. Sec. 10, T25S-R32E Lea Co., NM SHL & BHL 2080' FNL & 760' FWL

Exhibit A-1 - Choke Manifold Diagram Mesquite SWD, Inc. Cotton Draw #66 Sec. 10, T25S-R32E, Lea Co., NM SHL & BHL 2080' FNL & 760' FWL

