Form 3160-3 (March 2012)

# OCD HOBBS OCD

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

BUREAU OF LAND M	ANAGEMENT		10000.1071			
APPLICATION FOR PERMIT T		EIVED	6. If Indian, Allotee	or Tribe Name		
la. Type of work: DRILL  REE	7 If Unit or CA Agreement, Name and No Lusk West Delaware Unit NMNM-94514X					
lb. Type of Well: Oil Well Gas Well Other	ple Zone	8. Lease Name and Well No. LUSK WEST DELAWARE UNIT #11				
2. Name of Operator SHACKELFORD OIL COMPANY	20595>		9. API Well No. 30-025-34173			
3a. Address 203 W. WALL, SUITE 200 MIDLAND, TEXAS 79701	3b. Phone No. (include area code) 432-682-9784		10. Field and Pool, or LUSK; DELAWAR			
4. Location of Well (Report location clearly and in accordance with	h carry State requirements.*)		11. Sec., T. R. M. or B	Ik. and Survey or Area		
At surface 1980 FSL & 1980 FWL			SECTION 20, T. 19	9 S., R. 32 E.		
At proposed prod. zone SAME						
4. Distance in miles and direction from nearest town or post office* 22 MILES NORTHEAST OF CARLSBAD, NM		1911.6	12. County or Parish LEA	13. State NM		
5. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 640	17. Spacin 40	ng Unit dedicated to this	well		
8. Distance from proposed location* 950' to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 5400'	20. BLM/ NM - 21	/BIA Bond No. on file 156			
1. Elevations (Show whether DF, KDB, RT, GL, etc.) 3570' GL	22. Approximate date work will sta	urt*	23. Estimated duration 15 DAYS			
	24. Attachments					
he following, completed in accordance with the requirements of On	shore Oil and Gas Order No.1, must be a	ttached to th	is form:	······································		
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National Forest Syst SUPO must be filled with the appropriate Forest Service Office).	Item 20 above).  Sem Lands, the 5. Operator certification is a second control of the sec	cation	• •	existing bond on file (see		
25. Signature	Name (Printed/Typed) BARRY W. HUNT			Date 5/22/14		
PERMIT AGENT FOR SHACKELFORD OIL COMP.	ANY					
approved by (Signalure) Steve Caffey	Name (Printed/Typed)			DatAPR 2 3 2015		
itle FIELD MANAGER	Office		SBAD FIELD OFFIC			
application approval does not warrant or certify that the applicant	holds legal or equitable title to those righ	nts in the sub	ject lease which would e	entitle the applicant to		

conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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)

\*(Instructions on page 2)

Re-ENTry Witness CIT/MIT
RECUIRD

Cancl Well

E-PERMITTING MAY 0 1 2015

**HOBBS OCD** 

SHACKELFORD OIL COMPANY, INC. (RE-ENTRY) LUSK WEST DELAWARE #11 1980' FSL & 1980' FWL, SECTION 20, T19S, R32E Lea County, NM APR 27 2015

RECEIVED

#### 1. GEOLOGIC NAME OF SURFACE FORMATION:

A. Recent Permian with quaternary alluvium and other surficial deposits.

# 2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Formation	Subsea Depth	Well Depth	Water / Oil / Gas
			ļ
Anhydrite		756'	Salt
Tansil		2474'	Water/Oil/Gas
Yates		2560'	Water/Oil/Gas
Seven Rivers		2770'	Water/Oil/Gas
Top Capitan Reef		2882'	Water/Oil/Gas
Base Capitan Reef		3920'	Water/Oil/Gas
Delaware		4690'	Water/Oil/Gas
TD		5400'	Water/Oil/Gas

Water: Surface water between 50' - 230' behind casing.

Oil: Possible in the Yates below 2,600' and the Delaware below 4,820

Gas: None expected.

This project will involve re-entering the plugged and abandoned #11 well drilling out cement and plugs and setting CIBP at 5400'. This vertical Lusk West Delaware well will be drilled for the same.

#### 3. CASING PROGRAM: EXISTING IN WELL

Hole Size	Depth	Casing	Weight	Joint	Grade	New/Used	SF	SF Collapse	SF Tension
		Size					Burst		
17 ½"	0' - 858'	13 3/8"	54.5#	STC	J-55	New	6.44	2.67	12.86
12-1/4"	0' -4204'	8-5/8" 8-5/8"	24# 32#	STC STC	J-55 J-55	New New	1.42	1.22	2.44
7-7/8"	0'-6630'	5 1/2"	15.5#	LTC	J-55	New	1.47	1.23	2.47

#### 4. CEMENT PROGRAM: EXISTING

- A. <u>Surface Casing: Existing.</u> 13 3/8", 54.5#, @858' cmtnd w 475 sx 35.65 poz CL "C" + 6% Gel + 5% salt + .25#/sx celloflakes, wt 12.7 ppg, yield 1.94 cuft/sx, wtr 10.48 gal/sx. Tail: 200 sx "C" NEAT + 2% CaCl2 + 2.5#/sx celloflakes. Wt 14.86 ppg, yield 1.32 cuft/sx, wtr 6.32 gal/sx. TOC: circ to surface.
- B. <u>Intermidiate Casing:</u> Existing. 8 5/8", 32#, @ 4204' cmtnd w (1<sup>st</sup>. stage: 685 sx 50-50 POZ class C + 10% gel + .5% salt, 11.92ppg, yield. Tail w/200 sx class C NEAT + 1% CaCl 14.81 ppg, yield. DV tool @ 2620'. 2<sup>nd</sup>. Stage: 825sx 50-50 POZ class C + 10% gel + 5% salt, 11.92 ppg, yield 2.35. Tail w/150 sx class C NEAT + 2% CaCl2 14.81 ppg yield 1.33. TOC: circ to surface.
- C. <u>Production Casing: Existing.</u> 5 1/2", 15.5#, @ 6630' cmtnd w 900 sx 50-50 POZ Cl "C" + 2% gel + 5% Fl62, wt. 11.92 ppg, yield 1.25 cuft/sx, circ to surface.

#### 5. PRESSURE CONTROL EQUIPMENT:

The blow out preventer equipment (BOP) for this well consists of a 10" 3M Cameron Space Saver, double ram BOP with choke manifold. The BOP will be installed on the 8 5/8" casing. Casing and BOP will be tested as described in Onshore Order No. 2 before drilling out with 7 7/8". The pipe rams will be operated and checked daily, plus each time drill pipe is out of hole. This will be documented on drillers log. (See Exhibit #1 & #2).

#### 6. PROPOSED MUD CIRCULATION SYSTEM: In lateral hole

INTERVAL	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0 – 5400'	Brine water mud	9.5	29	NC

If needed, the necessary mud products for weight addition and fluid loss control will be on location at all times.

#### 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location.

#### 8. LOGGING, CORING AND TESTING PROGRAM:

Drill Stem Tests: None.

Logging: Bond Log was previously run.

Coring: None.

#### 9. ABNORMAL PRESSURES AND TEMPERATURES / POTENTIAL HAZARDS:

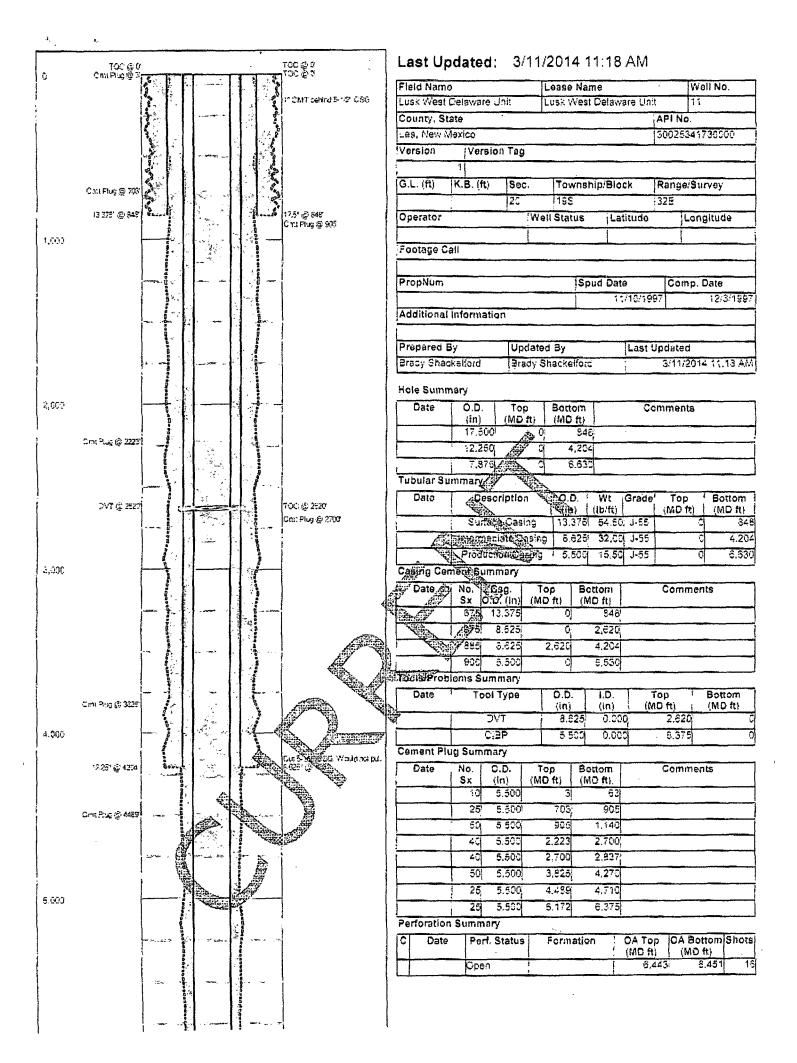
None anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight. Max bottom hole pressure should not exceed 3,218 psi., surface pressure 1,856 psi (part. Evac. Hole) with BHT of 122 F anticipated.

H2S: None expected. None in the previously drilled well, but the Mud Log Unit will be cautioned to use a gas trap to detect H2S and if any is detected the mud weight will be increased along with H2S inhibitors sufficient to control the gas. The well will be shut down until a mud separator and flare line can be installed on the choke manifold, if the gas monitor approaches 10.

The operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment.

#### 10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

A. Road and location construction will begin after BLM has approved APD. Anticipated spud date will be as soon after BLM approval and as soon as rig will be available. Move in operations and drilling is expected to take 25 days. An additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.



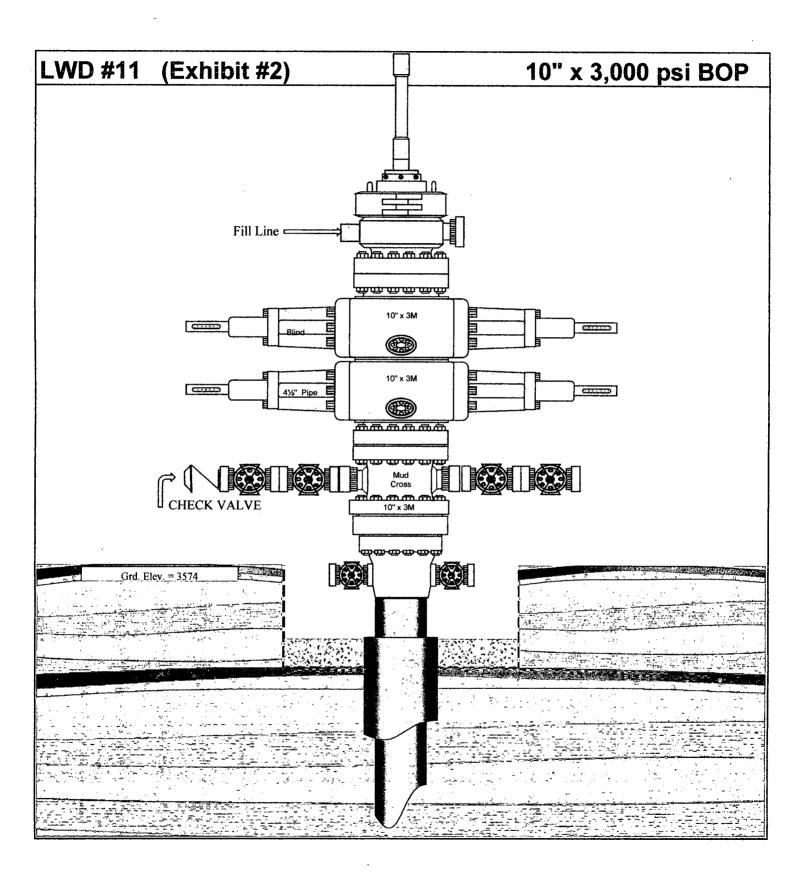
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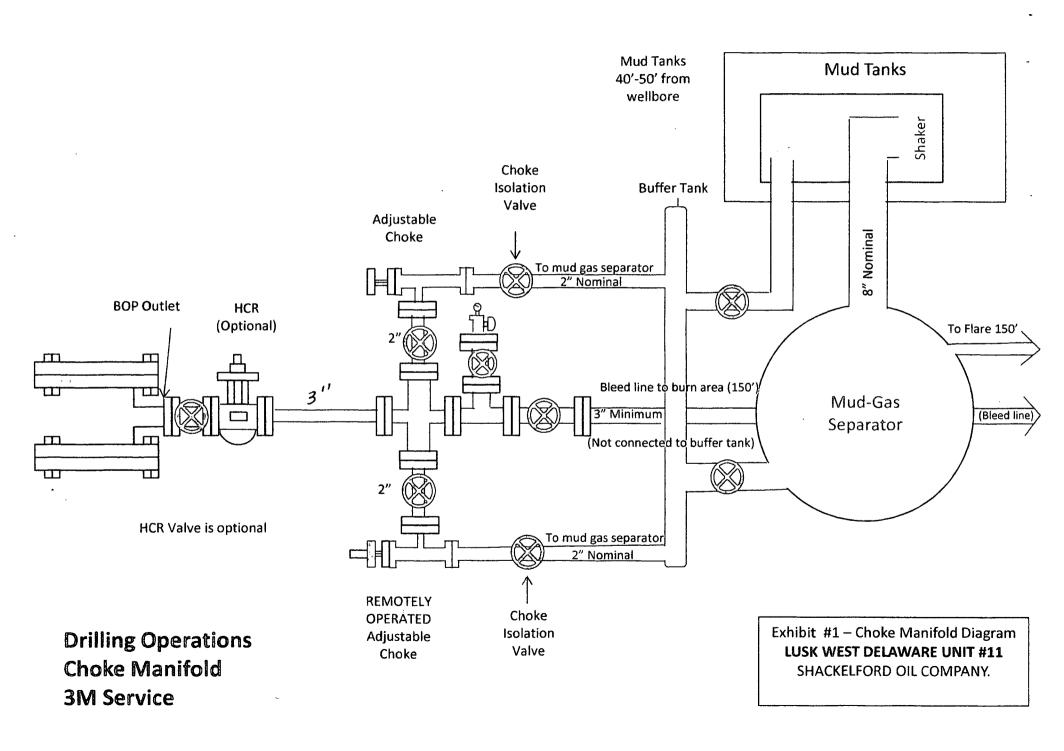
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#### SHACKELFORD OIL COMPANY

#### 203 W. Wall STE 200

#### Midland, TX 79701

**DESIGN:** Closed Loop system with roll-off steel bin (pits)

Contacts: Bob Shackelford - Office: 432-682-9784 Cell: 432-813-7090

Art Marquez - Office: 432-682-9784 Cell: 575-405-1334

Monitoring: 12 hour service

Equipment:

500 bbl waste fluid tank

500 bbl brine water tank

500 bbl 2% KCL Water Tank

Pump, swivel manifold

Reverse tank

1 CRI Bin with track system

Air pumps on location for immediate remediation process

Layout of Closed Loop System with bin, attached

Cuttings and associated liquids will be hauled to a State regulated third party disposal site, via CRI (Controlled Recovery, Inc.) Disposal Facility Permit # R9166

#### **OPERATIONS:**

Closed Loop equipment will be inspected daily by each tour and any necessary maintenance performed.

Any leak in system will be repaired and/or contained immediately.

OCD will be notified within 48 hours of the spill.

Remediation process started immediately.

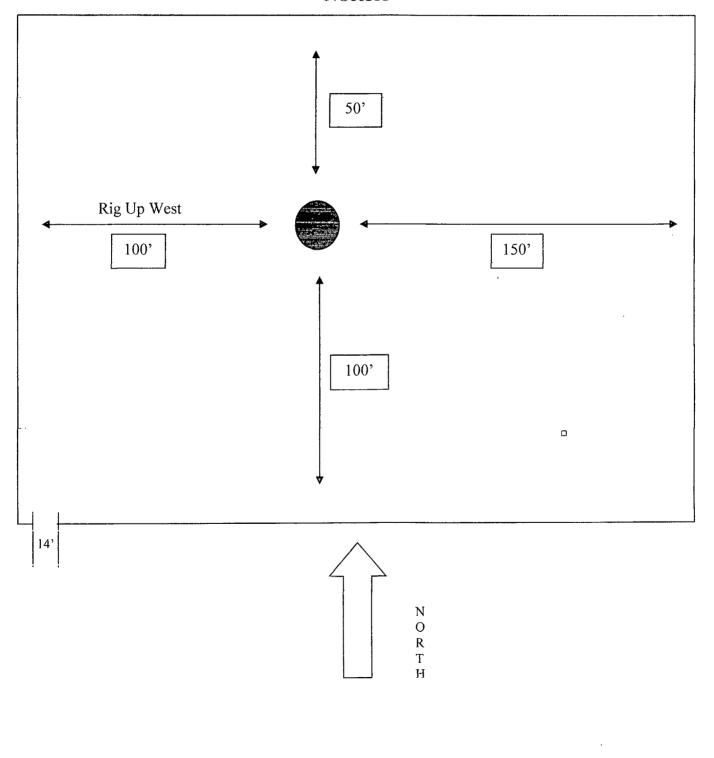
#### CLOSURE;

During drilling operations all liquids, drilling fluids and cuttings will be hauled off via CRI (Controlled Recovery Incorporated) Disposal Facility Permit # R9166

## **EXHIBIT D**

# LUSK WEST DELAWARE UNIT #11 V-DOOR EAST Rig Up West

# **NORTH**



## **ACKNOWLEDGEMENT**

SHACKELFORD OIL COMPANY:	HOBBS OCD
DAT 7	APR 27 2015
By: Don Shackelford	RECEIVED
This instrument was acknowledged before me on this day of 2014 by Sna Coulfural Shackelford Oil Company.	President of
Withlus am yr Kathleen An My Commission 09/02/2015	In Kane
Notary Public	······· <sup>§</sup>
My Commission Expires, 20	