

OPER. OGRID NO. 20595
PROPERTY NO. 15961
UNIT POOL CODE 41540
DEPARTMENT BUREAU OF EFF. DATE 6/14/95
APPLICATION FOR PERMIT API NO. 30-025-32991 BACK

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BLM Roswell District
Modified Form No.
NDSO-3160-2

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☒

PLUG BACK ☐

1B. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

2. NAME OF OPERATOR

Shackelford Oil Co.

3. ADDRESS OF OPERATOR

2626 Cole, Suite 502, Dallas, TX 75204 915-682-9784

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

660' FWL and 1650' FNL

At proposed prod. zone

660' FWL and 1650' FNL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

13 miles South of Maljamar, NM

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to nearest drg. unit line, if any)

660

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

300'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3568' GR

22. APPROX. DATE WORK WILL START

As soon as possible

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8-5/8"	24#	I-55	STC	550'	Class "C"; TOC-Surface
7-7/8"	5-1/2"	15.50#	I-55	STC or LTC	5400'	Class "C"; TOC-200' above bottom of hole (TIE BACK)

The operator proposes to drill to a depth sufficient to test the Delaware formation for oil. If productive, 5-1/2" casing will be cemented at TD. If non-productive, the well will be plugged and abandoned in a manner consistent with federal regulations. Specific programs as per Onshore Oil and Gas Order #1 are outlined in the following attachments:

Drilling Program

Surface Use and Operating Plant

Exhibit #1/#1-A = Blowout Prevention Equipment

Exhibit #2 = Location and Elevation Plat

Exhibit #3 = Planned Access Roads

Exhibit #4 = Wells Within One Mile Radius

Exhibit #5 = Production Facilities Plat

Exhibit #6 = Rotary Rig Layout

Exhibit #7 = Drilling Prognosis

Evidence of Bond Coverage

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

SIGNED

[Signature]

TITLE

Owner

DATE

March 22, 1995

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

[Signature]

TITLE

Acting STATE Director

DATE 6-5-95

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

RECEIVED

JUN 13 1988

**JOHN HOBBS
OFFICE**

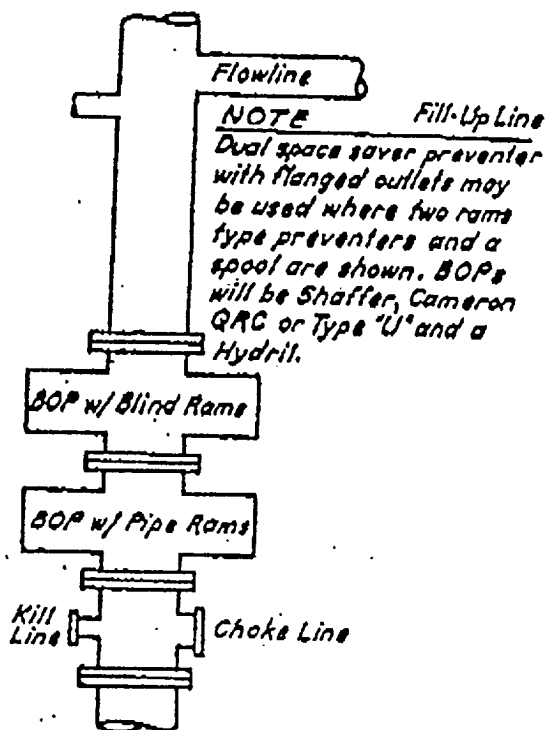


301 BOYD, E
ALLEN, TEXAS 75002

P. O. BOX 589
ALLEN, TEXAS 75002

(214) 727-8367

In Texas (800) 442-5224



CASE I

BLOWOUT PREVENTER HOOKUP

3000# Working Pressure

RECEIVED

JUN 13 1985

**DOE HOBBS
OFFICE**

District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

5-16-12

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-32991		Pool Code 41540	Pool Name WEST LUSK DELAWARE
Property Code 15961	Property Name MOBIL FEDERAL		Well Number 5
OGRID No. 20595	Operator Name SHACKELFORD OIL COMPANY		Elevation 3568

10 Surface Location

UL or lot no. E	Section 28	Township 19S.	Range 32E.	Lot Ida	Feet from the 1650	North/South line NORTH	Feet from the 660	East/West line WEST	County LEA
--------------------	---------------	------------------	---------------	---------	-----------------------	---------------------------	----------------------	------------------------	---------------

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order 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

<div>16</div> <div>1650'</div> <div>660'</div>					<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <div>Signature <i>Don G. Shackelford</i></div> <div>Printed Name DON G. SHACKELFORD</div> <div>Title President</div> <div>Date March 22, 1995</div>
					<div>18 SURVEYOR CERTIFICATION</div> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <div>6/22/94</div> <div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor</div> <div>JOHN D. JACQUES</div> <div>6290</div> <div>Certificate Number</div>

RECEIVED

MAY 1 9 03 AM '95

DATE
AREA

EXHIBIT #7
AMENDED DRILLING PROGNOSIS
MOBIL FEDERAL #5

LOCATION:

660' FWL and 1650' FNL
Section 28, T-19-S, R-32-E

**PROPOSED DEPTH
AND OBJECTIVE:**

Delaware 5300'

CASING PROGRAM:

Surface: 8-5/8" J-55 Set at ^{STS}550' in an
12-1/4" hole

Production: 5-1/2" 15.50 J-55 from
surface.

LOGGING PROGRAM:

A compensated neutron/formation density, with gamma ray, and caliper. A dual induction log will be run for water saturation analysis. The gamma ray compensated neutron/formation density will be run from TD to the base of the surface casing. All other logs will be run from TD to 2,000' above TD.

MUD LOGGING:

Samples will be taken every 10 feet from 2400 feet to TD.

MUD PROGRAM:

0 - 450'

Spud 12-1/4" hole with fresh water containing gel and lime, if necessary for hole cleaning. Mud weight should be 8.5 - 8.7 lb/gal with a viscosity of 33 - 35 sec/1000 cc.

450' - 5400'

Drill out below surface pipe using 7-7/8" bit with 10 lb/gal brine for drilling the native salt section. Lime will be added to maintain a pH of 9.5 - 10.0. Partial or total lost circulation is expected in the top of the Capitan Reef \pm 2850 ft. If total loss does occur,

RECEIVED

APR 17 1985

OFFICE

the remainder of the hole will be dry drilled with sweeps to TD.

CEMENT PROGRAM

8-5/8" Surface Casing
450'

Cement to surface using 290 sks of
Class C + 2% CACL + 1/4" Floscal
per sk.

5-1/2" Production Casing
5400' (7-7/8" open hole)

Two stage cement job:

First Stage

180 sks Halliburton Light

110 sks 50/50 Poz W/5#salt

Second Stage

320 sks Halliburton Light

60 sks Premium Plan W/2% CACL

DV Tool to be set at 3000'

RECEIVED

1935
J. C. HOBBS
OFFICE