Form 3160-3 Trangeter 2007) HOBBS OCD	FORM OMB Expires		<i>u</i> ,					
UNITED STAT DEPARTMENT OF THE DEC 2 4 2012BUREAU OF LAND M	E INTERIO		bbs	5. Lease Serial No SL-NM027507, B	). BHL <b>NM</b> -	- 10	739	3
APPLICATION FOR PERMIT T				6. If Indian, Alloto				
a. Type of work: DRILL REE	Type of work: DRILL REENTER							
Ib. Type of Well: Oil Well Gas Well Other		Single Zone 🔲 Multi	ple Zone	8. Lease Name and Red Hills West "2		d Cor	<b>3(</b> n #1H	504
2. Name of Operator Mewbourne Oil Company		14744	<b>.</b>	9. API Well No. 30-025		DB	97	
3a. Address PO Box 5270 Hobbs, NM 88241	575-393-		Jen	Afildeat Bone Spr	ing	$\mathbf{x}$	978	38)
<ol> <li>Location of Well (Report location clearly and in accordance with At surface 150' FNL &amp; 380' FWL, Sec. 21 T26S R32E</li> </ol>	8 -	+ D		11. Sec., T. R. M. or Sec. 21 T26S R3		vey or	Atea	L
At proposed prod. zone 380' FSL & 330' FWL, Sec. 21 T	26S R32E.	Kai+ m		12. County or Parish		13. S	tate	
<ol> <li>Distance in miles and direction from nearest town or post office*</li> <li>29 miles West/SW of Jal, NM.</li> </ol>				Leo		NM	late	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)		acres in lease $809Z$	17. Spacin 160	cing Unit dedicated to this well				
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>		19. Proposed Depth         20. BLM/I           13876' MD         NM-169			/BIA Bond No. on file 93, Nationwide, NMB 000919			
<ol> <li>Elevations (Show whether DF, KDB, RT, GL, etc.)</li> <li>3151' GL</li> </ol>		kimate date work will sta	23. Estimated duration 60 days					
		achments			<u></u>			
The following, completed in accordance with the requirements of Ons	hore Oil and Ga							
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>		Item 20 above).	-	ns unless covered by a	n existing b	ond on	i file (see	
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office).	m Lands, the	<ol> <li>Operator certific</li> <li>Such other site BLM.</li> </ol>		ormation and/or plans a	as may be re	quired	by the	
25. Signature Broddin Burken	1	e (Printed/Typed) Iley Bishop			Date 09/18/2	012		
Title								
Approved by (Signature) /s/ Don Pete	rson Name	e (Printed/Typed)			DEC 2	0.	2012	
Title FIELD MANAGER	Offic		.SBAD FI	ELD OFFICE				
Application approval does not warrant or certify that the applicant he conduct operations thereon.	olds legal or equ	itable title to those righ	ts in the sub		•	•		~ ~
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 States any false, fictitious or fraudulent statements or representations a	crime for any pasto any matter	person knowingly and v within its jurisdiction.	villfully to m	APPROVAL ake to any department				15
(Continued on page 2)				*(Ins Carlsbad Col	tructions ntrollec	on p I Wa	age 2) ater Ba	asin
		Kæ 12/26/1	$\sim$					
		12/2011						

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

JAN. 0 8 2013

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## Drilling Program Mewbourne Oil Company Red Hills West 21 DM Fed Com #1H 150' FNL & 380' FWL (SHL) Sec 21-T26S-R32E Lea County, New Mexico

#### 1. The estimated (TVD) tops of geological markers are as follows:

Rustler	675'
Top of Salt	915'
Base of Salt	4220'
*Delaware	4400'
*Bone Springs	8500'
1 <sup>st</sup> Bone Springs sand	9500'
Wolfcamp	WILL NOT PENETRATE

#### 2. Estimated depths of anticipated fresh water, oil, or gas:

Water

Hydrocarbons

Fresh water is anticipated @ 200' and will be protected by setting surface casing at 700' and cementing to surface. Oil and gas are anticipated in the above (\*) formations. These zones will be protected by casing as necessary.

#### 3. Pressure control equipment:

A 2000# WP annular will be installed after running 13 <sup>3</sup>/<sub>6</sub>" casing. A 3000# WP double ram BOP and 3000# WP Annular will be installed after running 9 <sup>5</sup>/<sub>6</sub>" & 7" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPs will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use.

Will test the 13 %" annular to 1500# and the 9 %" & 7" BOPE to 3000# and annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1<sup>st</sup> test as per BLM Onshore Oil and Gas Order #2.

### 4. Drilling Program:

MOC proposes to drill a vertical wellbore to 8683' & kick off to horizontal @ 9256' TVD. The well will be drilled to 13,876' MD (9281' TVD). See attached directional plan.

#### 5. Proposed casing and cementing program:

. .

See Cott

A. Casing	Program:				
Hole Size	Casing	<u>Wt/Ft.</u>	<u>Grade</u>	Depth	<u>Jt Type</u> ST&C
17 ½"	13 ¾" (new)	48#	H40	<u>Depth</u> 0'-200' 825	ST&C
12 1⁄4"	9 %" (new)	36#	J55	0'-3400'	LT&C
12 ¼"	9 <b>%</b> " (new)	40#	J55	3400'-4300'	LT&C
8 <sup>3</sup> /4"	7" (new)	26#	P110	0-8600' MD	LT&C
8 ¾"	7" (new)	26#	P110	8600'-9580'MD	BT&C
6 1/8"	4 ½" (new)	13.5#	P110	9380'-TD	LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8. \*Subject to availability of casing.

#### **B.** Cementing Program:

i.

iii.

iv.

- EE II.
- <u>Surface Casing</u>: 325 sacks \*Lite "C" (35:65:4) cement w/salt and lost circulation additives. Yield at 2.16 cuft/sk. 200 sks class "C" w/2% CaCl<sub>2</sub>. Yield at 1.34 cuft/sk. Cmt circulated to surface w/100% excess.
- Intermediate Casing: 670 sacks \*Lite "C" (35:65:4) cement w/salt and lost circulation material additives. Yield at 2.11 cuft/sk. 200 sks class "C" neat. Yield at 1.33 cuft/sk. Cmt circulated to surface w/25% excess.
- <u>Production Casing</u>: 700 sacks \*Lite "C" (60:40:0) cement w/salt and fluid loss additives. Yield at 2.11 cuft/sk. 300 sks class "H" w/salt and fluid loss additives. Yield at 1.19 cuft/sk. Cmt calculated to tieback into intermediate casing @ 4100' w/25% excess.
- <u>Production Liner</u>: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger.

\*Referring to above blends of lite cement: (wt% fly ash : wt% cement : wt% bentonite of the total of first two numbers). Generic names of additives are used since the availability of specific company and products are unknown at this time.

\*Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

Weight

8.6-9.0

8.6-8.8

8.5-8.7

10.0

#### 6. Mud Program:

Interval 0'-700' 525 700'-4300' 4300'-8683' 8683'- TD <u>Type System</u> FW spud mud Brine water FW mud FW w/Polymer

<u>Viscosity</u>	
32-34	
29-30	
28-30	
32-35	

<u>Fluic</u>	<u>l Los</u>
NĂ	
NA	
NA	
15	

#### 7. Evaluation Program:

Samples: Logging:



10' samples from surface casing to TD

7 GR, CNL & Gyro from KOP-100' (8583') to surface and GR from KOP to TD.

#### 8. Downhole Conditions

Zones of abnormal pressure:NoneZones of lost circulation:AnticMaximum bottom hole temperature:120 cMaximum bottom hole pressure:8.3 lt

#### None anticipated

Anticipated in surface and intermediate holes 120 degree F 8.3 lbs/gal gradient or less (9281 x .44 = 4083.64 psi per

foot.)

#### 9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 45 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

## **Mewbourne Oil Co**

Lea County, NM Section 21-26S-32E Red Hills West 21 "DM" Fed com #1H

Wellbore #1

Plan: Design #1

# **DDC Well Planning Report**

11 September, 2012



DDC Well Planning Report



DDC Well Planning Report



atabase:	
Company: 21	Mewbou
roject:	Lea Cou
lite:	Section
Vell:	Red Hill
Vellbore:	Wellbore
)esian:	Design #

abase: mpany: ject: : : Il: Ilbore: sign:	EDM 5000.1 Single User Db Mewbourne Oil Co Lea County, NM Section 21-26S-32E Red Hills West 21 "DM" Fed com #1H Wellbore #1 Design #1			Local TVDR MDRe North	Local Co-ordinate Reference: TVD:Reference: MD:Reference: North Reference: Survey Calculation Method:			Well Red Hills West 21 "DM" Fed com #11 WELL @ 3171.0usft (Patterson-UTI #41) WELL @ 3171.0usft (Patterson-UTI #41) Grid Minimum Curvature		
nned Survey Measured Depth (usft):	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft) (	Build Rate \$/100usft) \=	Turn Rate (°/100usft)	
Build 10° / 1				的目的思想。他们们		er en				
8,683.1	0.00	0.00	8,683.1	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	1.69	179.76	8,700.0	-0.2	0.0	0.2	10.00	10.00	0.00	
8,750.0	6.69	179.76	8,749.8	-3.9	0.0	3.9	10.00	10.00	0.00	
8,800.0 8,850.0	11.69 16.69	179.76 179.76	8,799.2	-11.9	0.0	11.9	10.00	10.00 10.00	0.00	
8,850.0 8,900.0	21.69	179.76	8,847.6 8,894.9	-24.1 -40.6	0.1 0.2	24.1 40.6	10.00 10.00	10.00	0.00 0.00	
8,950.0	26.69	179.76	8,940.5	-61.0	0.3	61.0	10.00	10.00	0.00	
9,000.0	31.69	179.76	8,984.1	-85.4	0.4	85.4	10.00	10.00	0.00	
9,050.0	36.69	179.76	9,025.4	-113.5	0.5	113.5	10.00	10.00	0.00	
9,100.0 9,150.0	41.69 46.69	179.76 179.76	9,064.2 9,100.0	-145.1 -179.9	0.6 0.7	145.1 179.9	10.00 10.00	10.00 10.00	0.00 0.00	
9,200.0	51.69	179.76	9,132.7	-217.8	0.9	217.8	10.00	10.00	0.00	
9,250.0	56.69	179.76	9,161.9	-258.3	1.1	258.3	10.00	10.00	0.00	
9,300.0	61.69	179.76	9,187.5	-301.2	1.3	301.2	10.00	10.00	0.00	
9,350.0 9,400.0	66.69 71.69	179.76 179.76	9,209.3 9,227.0	-346.2 -393.0	1.4 1.6	346.2 393.0	10.00 10.00	10.00 10.00	0.00 0.00	
9,450.0	76.69	179.76	9,240.7	-441.0	1.8	441.1	10.00	10.00	0.00	
9,500.0	81.69	179.76	9,250.0	-490.1	2.0	490.1	10.00	10.00	0.00	
9,550.0	86.69	179.76	9,255.1	-539.9	2.2	539.9	10.00	10.00	0.00	
-	7° Inc / 179.76									
9,579.8 9,600.0	89.67 89.67	179.76 179.76	9,256.0 9,256.2	-569.6 -589.9	2.4 2.5	569.6 589.9	10.00 0.00	10.00 0.00	0.00 0.00	
9,700.0	89.67	179.76	9,256.7	-689.8	2.9	689.9	0.00	0.00	0.00	
9,800.0	89.67	179.76	9,257.3	-789.8	3.3	789.9	0.00	0.00	0.00	
9,900.0	89.67	179.76	9,257.9	-889.8	3.7	889.9	0.00	0.00	0.00	
10,000.0 10,100.0	89.67 89.67	179.76 179.76	9,258.5 9,259.1	-989.8 -1,089.8	4.1 4.5	989.9 1,089.8	0.00 0.00	0.00 0.00	0.00 0.00	
10,100.0	89.67	179.76	9,259.7	-1,189.8	4.5 5.0	1,189.8	0.00	0.00	0.00	
10,300.0	89.67	179.76	9,260.2	-1,289.8	5.4	1,289.8	0.00	0.00	0.00	
10,400.0	89.67	179.76	9,260.8	-1,389.8	5.8	1,389.8	0.00	0.00	0.00	
10,500.0	89.67	179.76	9,261.4	-1,489.8	6.2	1,489.8	0.00	0.00	0.00	
10,600.0 10,700.0	89.67 89.67	179.76 179.76	9,262.0 9,262.6	-1,589.8 -1,689.8	6.6 7.0	1,589.8 1,689.8	0.00 0.00	0.00 0.00	0.00 0.00	
10,800.0	89.67	179.76	9,263.1	-1,789.8	7.5	1,789.8	0.00	0.00	0.00	
10,900.0	89.67	179.76	9,263.7	-1,889.8	7.9	1,889.8	0.00	0.00	0.00	
11,000.0	89.67	179.76	9,264.3	-1,989.8	8.3	1,989.8	0.00	0.00	0.00	
11,100.0 11,200.0	89.67 89.67	179.76 179.76	9,264.9 9,265.5	-2,089.8 -2,189.8	8.7 9.1	2,089.8 2,189.8	0.00 0.00	0.00 0.00	0.00 0.00	
11,300.0	89.67	179.76	9,266.0	-2,289.8	9.5	2,289.8	0.00	0.00	0.00	
11,400.0	89.67	179.76	9,266.6	-2,389.8	10.0	2,389.8	0.00	0.00	0.00	
11,500.0	89.67	179.76	9,267.2	-2,489.8	10.4	2,489.8	0.00	0.00	0.00	
11,600.0 11,700.0	89.67 89.67	179.76 179.76	9,267.8 9,268.4	-2,589.8 -2,689.8	10.8 11.2	2,589.8 2,689.8	0.00 0.00	0.00 0.00	0.00 0.00	
11,800.0	89.67	179.76	9,268.9 9,268.9	-2,009.0	11.2	2,009.0 2,789.8	0.00	0.00	0.00	
11,900.0	89.67	179.76	9,269.5	-2,889.8	12.0	2,889.8	0.00	0.00	0.00	
12,000.0	89.67	179.76	9,270.1	-2,989.8	12.5	2,989.8	0.00	0.00	0.00	
12,100.0	89.67	179.76	9,270.7	-3,089.8	12.9	3,089.8	0.00	0.00	0.00	
12,200.0 12,300.0	89.67 89.67	179.76 179.76	9,271.3 9,271.8	-3,189.8 -3,289.8	13.3 13.7	3,189.8 3,289.8	0.00 0.00	0.00 0.00	0.00 0.00	
12,300.0	89.67	179.76								
12,400.0	89.67 89.67	179.76 179.76	9,272.4 9,273.0	-3,389.8 -3,489.8	14.1 14.5	3,389.8 3,489.8	0.00 0.00	0.00 0.00	0.00 0.00	
12,600.0	89.67	179.76	9,273.6	-3,589.8	14.9	3,589.8	0.00	0.00	0.00	
12,700.0	89.67	179.76	9,274.2	-3,689.8	15.4	3,689.8	0.00	0.00	0.00	

DDC Well Planning Report



Database: Company: Project: Site: Well: Wellbore: Design:	Mewbourne Oil Čo Lea County, NM Section 21-26S-32E				Co-ordinate F eference ference Reference Y Calculation		Well Red Hills West 21 "DM" Fed com #1H WELL @ 3171.0usft (Patterson-UTI #41) WELL @ 3171.0usft (Patterson-UTI #41) Grid Minimum Curvature			
Planned Survey Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W - (usft)	Vertical Section (usft)	Dogleg Rate (*/100usft)	Build Rate ?/100usft);	Turn Rate (?/100usft)	
12,800.0	89.67	179.76	9,274.8	-3,789.8	15.8	3,789.8	0.00	0.00	0.00	
12,900.0 13,000.0 13,100.0 13,200.0 13,200.0 13,300.0	89.67 89.67 89.67 89.67 89.67 89.67	179.76 179.76 179.76 179.76 179.76 179.76	9,275.3 9,275.9 9,276.5 9,277.1 9,277.7	-3,889.8 -3,989.8 -4,089.8 -4,189.8 -4,289.8	16.2 16.6 17.0 17.4 17.9	3,889.8 3,989.8 4,089.8 4,189.8 4,289.8	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
13,400.0 13,500.0 13,600.0 13,700.0 13,700.0 13,800.0	89.67 89.67 89.67 89.67 89.67 89.67	179.76 179.76 179.76 179.76 179.76 179.76	9,278.2 9,278.8 9,279.4 9,280.0 9,280.6	-4,389.8 -4,489.8 -4,589.8 -4,689.7 -4,789.7	18.3 18.7 19.1 19.5 19.9	4,389.8 4,489.8 4,589.8 4,689.8 4,789.8	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
<b>TD @:13876</b> 13,875.8	' <b>MD / 9281' T\</b> 89.67	/D 179.76	9,281.0	-4,865.5	20.3	4,865.6	. 0.00	. 0.00	0.00	

Design Targets Target Name hit/miss target Dip/ Shape	Angle Di	p Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude		
PBHL Red Hills West - plan hits target center - Point	0.00	0.00	9,281.0	-4,865.5	20.3	372,199.79	700,342.52	32° 1' 17.918 N	103° 41' 12.	877 W

Plan Annotations Measured Depth ((ust))	Vertical Depth (usft)	Local Coordinates +N/-S +E/ (usft) (us	Water	Comment
8,683.1	8,683.1	0.0	0.0	Build 10° / 100'
9,579.8	9,256.0	-569.6	2.4	EOB @ 89.67° Inc / 179.76° Azm / 9256' TVD
13,875.8	9,281.0	-4,865.5	20.3	TD @ 13876' MD / 9281' TVD

# Mewbourne Oil Company

Lea County, NM

Red Hills West 21 "DM" Fed com #1H

Quote 120686

Design #1



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Red Hills West 21 DM Fed Com #1H



Notes Regarding Blowout Preventer Mewbourne Oil Company Red Hills West 21 DM Fed Com #1H 150' FNL & 380' FWL Sec. 21 T26S R32E Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi working pressure on 9 5/8" and 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

H<sub>2</sub>S Diagram

