HOBERADOCD FORM APPROVED SEP 1 5 2016 OMB No. 1004-0137 Expires October 31, 2014 (March 2012) UNITED STATES DEPARTMENT OF THE INTERIORECEIVED 5. Lease Serial No. NMNM24491 & NMNM15035 BUREAU OF LAND MANAGEME 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER la. Type of work: 8. Lease Name and Well No. lb. Type of Well: ✓ Oil Well Gas Well ✓ Single Zone Multiple Zone Oryx 14 B3CN Fed Com #1H Name of Operator Mewbourne Oil Company 9. API Well No. 125-3a. Address PO Box 5270 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 575-393-5905 Hobbs, NM 88241 Antelope Ridge West Bone Spring 11. Sec., T. R. M. or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 185' FNL & 1980' FWL, Sec 14 T23S R34E Sec 14 T23S R34E At proposed prod. zone 330' FSL & 1980' FWL, Sec 14 T23S R34E 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* NM 20 miles SW of Eunice, NM Lea 16. No. of acres in lease NMNM24491 - 160 acres Distance from proposed* 17. Spacing Unit dedicated to this well 185 location to nearest 160 property or lease line, ft. (Also to nearest drig. unit line, if any) NMNM 15035 - 520 acres to nearest well, drilling, completed, applied for on this large completed, 20. BLM/BIA Bond No. on file 19. Proposed Depth 18. Distance from proposed location* 11,352 - TVD NM1693 nationwide & NMB-000919 applied for, on this lease, ft. 5,895 - MD 22. Approximate date work will start* 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 11/29/2015 3365' - GL 60 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 5. Operator certification 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the 6.

25. Signature Broad 75	Name (Printed/Typed) Bradley Bishop	Date 09/29/2015
ïtle	2	
Approved by (Signature) /s/Cody La	Name (Printed/Typed)	DEEP 1 3 2016

BLM.

Office Title FIELD MANAGER CARLSBAD FIELD OFFICE 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.

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)

Form 3160-3

2.

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2 /20/16

*(Instructions on page 2)

Capitan Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

1. Geologic Formations

TVD of target	11352'	Pilot hole depth	NA
MD at TD:	15895'	Deepest expected fresh water:	275'

Basin		and the second day to be a second day of the second day of the second day of the second day of the second day of	
Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	2140		
Top of Salt	2390	Salt	
Base of Salt	4490		
Yates		Oil	
Lamar	4960		
Cherry Canyon	5950		
Manzanita Marker	6040		
Brushy Canyon	7230	and the second sec	
Bone Spring	8530	Oil/Gas	
1st Bone Spring Sand	9647		
2 nd Bone Spring Sand	10130		
3rd Bone Spring Sand	11008	Target Zone	
Abo			
Wolfcamp		Will Not Penetrate	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Hole	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs)			Collapse	Burst	Tension
17.5"	0'	1265'	13.375"	48	H40	STC	1.13	2.63	2.89
17.5"	1265'	1932'	13.375"	54.5	J55	STC	1.13	2.72	10.16
17.5"	1932'	2165'	13.375"	61	J55	STC	1.37	2.74	41.80
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.49
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	9.08
12.25"	4393'	4885'	9.625"	40	N80	LTC	1.22	2.26	37.46
8.75"	0'	1385'	5.5"	17	P110	BTC	10.38	10.38	2.02
8.75"	1385'	10857'	5.5"	17	P110	LTC	1.32	1.88	1.80
8.75"	10857'	11605'	5.5"	17	P110	BTC	1.27	1.81	6.38
8.75"	11605'	15895'	5.5"	17	P110	LTC	1.27	1.80	6.09
E	BLM Minim	num Safety	1.125	1	1.6 Dry				
		Factor			1.8 Wet				

2. Casing Program

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N		
Is casing new? If used, attach certification as required in Onshore Order #1	Y		
Is casing API approved? If no, attach casing specification sheet.	Y		
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N		
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y		
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y		
Is well located within Capitan Reef?	N		
If yes, does production casing cement tie back a minimum of 50' above the Reef?			
Is well within the designated 4 string boundary.			
Is well located in SOPA but not in R-111-P?	N		
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?			
Is well located in R-111-P and SOPA?	N		
If yes, are the first three strings cemented to surface?			
Is 2 nd string set 100' to 600' below the base of salt?	- John Company		
Is well located in high Cave/Karst?	N		
If yes, are there two strings cemented to surface?			
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?			

Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	1295	14.8	1.34	6.3	8	Class C + 0.005pps Static Free + 1% CaCl2 + 0.25 pps CelloFlake + 0.005 gps FP-6L
	200	14.8	1.34	6.3	8	Tail: Class C + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
Inter.	780	12.5	2.12	11	10	Lead: Class C (35:65:4) + 5% Sodium Chloride +5#/sk LCM +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	8	Tail: Class C + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
Prod	1195	11.2	2.97	18	16	Class C (60:40:0)+4% MPA5+1.2% BA10A+10#/sk BA90+5%A10+0.65%ASA301+1.5%SMS+1.2%R21

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4685'	25%

4. Pressure Control Equipment

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Туре		Tested to:
an die ofgestaande s			Annular	X	1500#
			Blind Ram		
12-1/4"	13-5/8"	3M	Pipe Ram		
			Double Ram		
			Other*		
			Annular	X	2500#
			Blind Ram	X	
8-3/4"	13-5/8"	5M	Pipe Ram	X	5000#
			Double Ram		3000#
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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 tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2.
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
	A variance is requested for the use of a flexible choke line from the BOP to Choke
Y	Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?

N A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

• Provide description here

See attached schematic.

5. Mud Program

D	epth	Туре	Weight (ppg)	Viscosity	Water Loss	
From	То		Para and an and a			
0	2165	FW Gel	8.6-8.8	28-34	N/C	
2165	4885	Saturated Brine	10.0	28-34	N/C	
4885	10857	Cut Brine	8.6-9.5	28-34	N/C	
10857	15895	FW w/Polymer	8.6-9.5	30-40	<20cc	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
X	Will run GR/CNL from KOP (10857') to surface (horizontal well - vertical portion of
	hole). Stated logs run will be in the Completion Report and submitted to the BLM.
1-11	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If ves, explain

Add	litional logs planned	Interval
X	Gamma Ray	10857'(KOP) to TD
-	Density	
	CBL	
	Mud log	
1	PEX	

7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	5583 psi	
Abnormal Temperature	No	

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe. Will be pre-setting casing? If yes, describe.

Attachments

Directional Plan

____ Other, describe

Notes Regarding Blowout Preventer

Mewbourne Oil Company Oryx 14 B3CN Fed Com #1H 185' FNL & 1980' FWL (SHL) Sec 14-T23S-R34E 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 2000 psi working pressure on 13 3/8" casing and 3000 psi working pressure on 9 5/8" & 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.









en	ENGINEERING			
The lot	& SERVICES			
TES E & S NOR	TH AMERICA, INC.		PHONE: 361-887-9807	
44TH STREET	TEXAS 78405		FAX: 361-887-0812	
trob cincora,	1205 70105		WEB: www.gates.com	
10K C	EMENTING ASSEMB	LY PRESSURE	TEST CERTIFICATE	
internet a		Tota Data	4/20/2015	
ustomer Ref. :	4060578	Hose Serial No.:	D-043015-7	
voice No. :	500506	Created By:	JUSTIN CROPPER	
	r	1042 FAD 0044 4 4640404		
roduct Description:		10K3.548.0CK4.1/1610KFL0		
ind Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG	
ates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7	
Iorking Pressure :	10,000 PSI	Test Pressure :	15,000 PSI	
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H2S Diagram

Closed Loop Pad Dimensions 340' x 340'



