HOBBS OCD

ATS-14-80

Form 3160-3 (March 2012)

SEP 1 5 2016

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT RECEIVED

5. Lease Serial No. NMNM24491 & NMNM15035

APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Tribe Name					
la. Type of work:	la. Type of work: ✓ DRILL REENTER					
lb. Type of Well: Oil Well Gas Well Other	√	Single Zone Multi	ple Zone	8. Lease Name and Oryx 14 B3DM Fe		и 316
2. Name of Operator Mewbourne Oil Company	94)			9. API Well No.	43	424
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone 575-393	No. (include area code) -5905		10. Field and Pool, or Antelope Ridge W		/~-
Location of Well (Report location clearly and in accordance with a At surface 185' FNL & 660' FWL, Sec 14 T23S R34E At succeed and seems 2001 FNL & 600' FML & 9 and 44 T00	11. Sec., T. R. M. or 1 Sec 14 T23S R34		rvey or Area			
At proposed prod. zone 330' FSL & 660' FWL, Sec 14 T23 14. Distance in miles and direction from nearest town or post office* 20 miles SW of Eunice, NM	S R34E			12. County or Parish Lea		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)				ng Unit dedicated to this	well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propo 11,333' - 15,890'			MBIA Bond No. on file 3 nationwide & NMB-000919		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3373' - GL	22. Appro	oximate date work will sta 015	rt* 23. Estimated duration 60 days			•
	24. At	tachments				<u> </u>
The following, completed in accordance with the requirements of Onsho	ore Oil and G	as Order No.1, must be a	attached to th	nis form:		11/2
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	Item 20 above). 5. Operator certifi	cation	ons unless covered by a		
25. Signature P.		ne (Printed/Typed) Indley Bishop			Date 09/29/2	2015
Title						A COLUMN
Approved by (Signature)	Nar	ne (Printed/Typed)			ISEP	1 4 2016

/s/Cody Layton

Name (Printed/Typed)

DEP 1 4 ZUID

Title

FIELD MANAGER

Office

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.

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)

Capitan Controlled Water Basin

09/20/16

*(Instructions on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

SL: 185' FNL & 660' FWL BHL: 330' FSL & 660' FWL

1. Geologic Formations

TVD of target	11333'	Pilot hole depth	NA
MD at TD:	15890'	Deepest expected fresh water:	275'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	1 2 2 4 2 E H L L	
Rustler	2058		
Top of Salt	2318	Salt	1-15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Base of Salt	4533		
Yates		Oil	
Lamar	4948		
Cherry Canyon	5943	Tarian and the same of the sam	
Manzanita Marker	6038	(-) (1) · ·	
Brushy Canyon	7198		
Bone Spring	8488	Oil/Gas	
1 st Bone Spring Sand	9628	S = 40 1 , 12	
2 nd Bone Spring Sand	10108		
3 rd Bone Spring Sand	10981	Target Zone	
Abo			
Wolfcamp		Will Not Penetrate	Letter
Devonian			100
Fusselman			
Ellenburger			
Granite Wash			

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

SL: 185' FNL & 660' FWL BHL: 330' FSL & 660' FWL

2. Casing Program

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	To	Size	(lbs)			Collapse	Burst	Tension
17.5"	0'	1265'	13.375"	48	H40	STC	1.13	2.63	3.03
17.5"	1265'	1932'	13.375"	54.5	J55	STC	1.13	2.72	11.25
17.5"	1932'	2085'	13.375"	61	J55	STC	1.42	2.85	63.60
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.50
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	9.14
12.25"	4393'	4875'	9.625"	40	N80	LTC	1.22	2.27	38.24
8.75"	0'	1380'	5.5"	17	P110	BTC	10.42	10.42	2.02
8.75"	1380'	10852'	5.5"	17	P110	LTC	1.33	1.89	1.80
8.75"	10852'	11602'	5.5"	17	P110	BTC	1.27	1.81	6.38
8.75"	11602'	15890'	5.5"	17	P110	LTC	1.27	1.80	6.09
		•		BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry 1.8 Wet

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

。 1985年 - 1985年 -	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?	25 11 11 2
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?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	CHAPTER STATE
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	12.00

Mewbourne Oil Company, Oryx 14 B3DM Fed Com #1H

Sec 14, T23S, R34E SL: 185' FNL & 660' FWL BHL: 330' FSL & 660' FWL

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

3. Cementing Program - See COA

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	1245	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	4675'	25%

SL: 185' FNL & 660' FWL BHL: 330' FSL & 660' FWL

4. Pressure Control Equipment See COA

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	T	ype	1	Tested to:	
			Anı	nular	X	1500#-2000#	
			Blind Ram				
12-1/4" 13-5/8"	13-5/8"	311	Pipe Ram				
	2m	2m1	Double Ram				
			Other*				
			Anı	nular	X	1500# 2500 #	
			Bline	l Ram	X		
8-3/4"	11"	3M1	Pipe Ram		X	2000#	
		5M	Doub	le Ram		1500# 2500 # 3000# 5000 #	
	11		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 Manifold. See attached for specs and hydrostatic test chart.



Are anchors required by manufacturer?

SL: 185' FNL & 660' FWL BHL: 330' FSL & 660' FWL

- 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

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	2085	FW Gel	8.6-8.8	28-34	N/C
2085	4875	Saturated Brine	10.0	28-34	N/C
4875	10852	Cut Brine	8.6-9.5	28-34	N/C
10852	15890	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 of fluid?	Visual Monitoring
---	-------------------

6. Logging and Testing Procedures

Logg	ging, Coring and Testing.
X	Will run GR/CNL from KOP (10852') to surface (horizontal well – vertical portion of
	hole). Stated logs run will be in the Completion Report and submitted to the BLM.
3 4	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval	
X	Gamma Ray	10852'(KOP) to TD	
Ma	Density		
9	CBL		
	Mud log		
	PEX		

SL: 185' FNL & 660' FWL BHL: 330' FSL & 660' FWL

7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	4908 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.

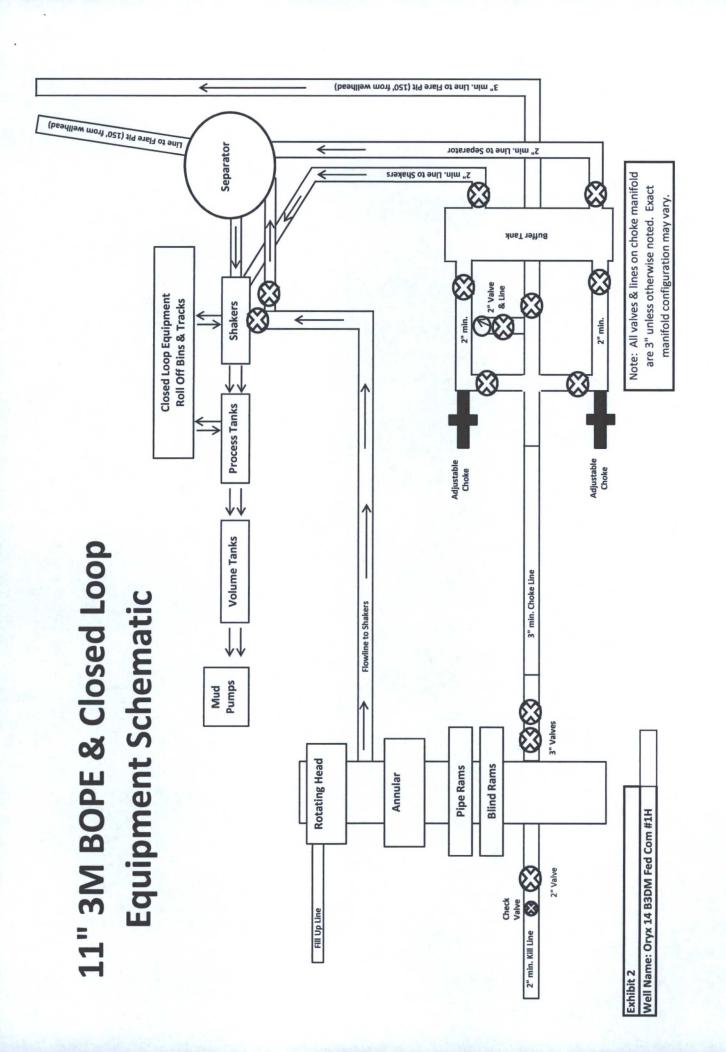
Attachments
___ Directional Plan
Other, describe

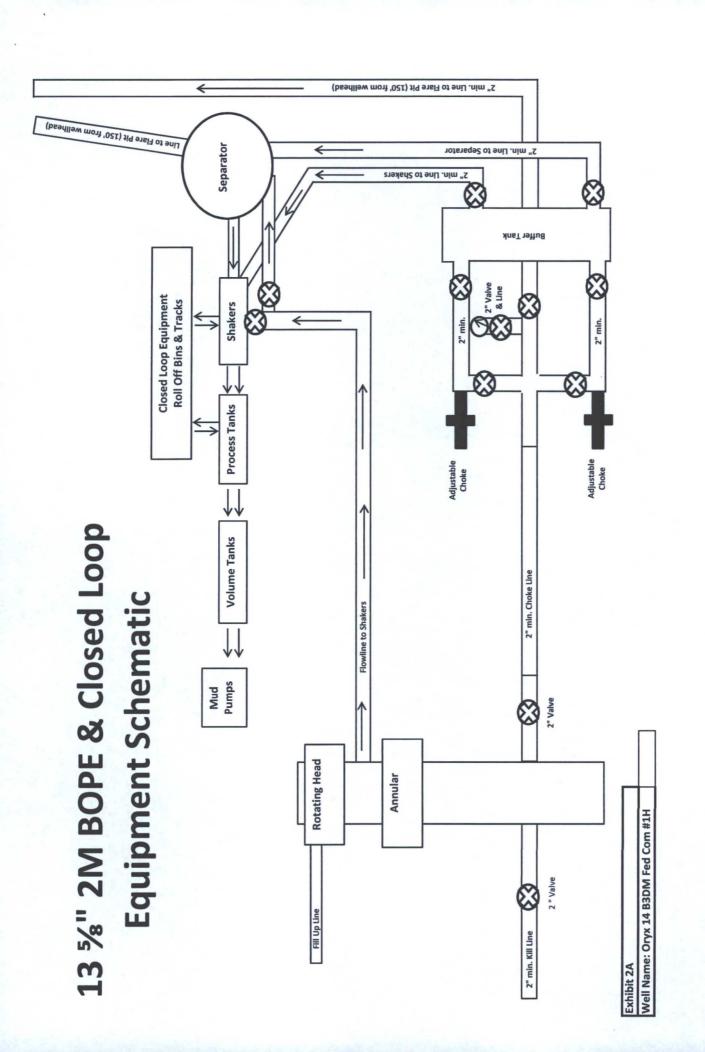
Notes Regarding Blowout Preventer Mewbourne Oil Company

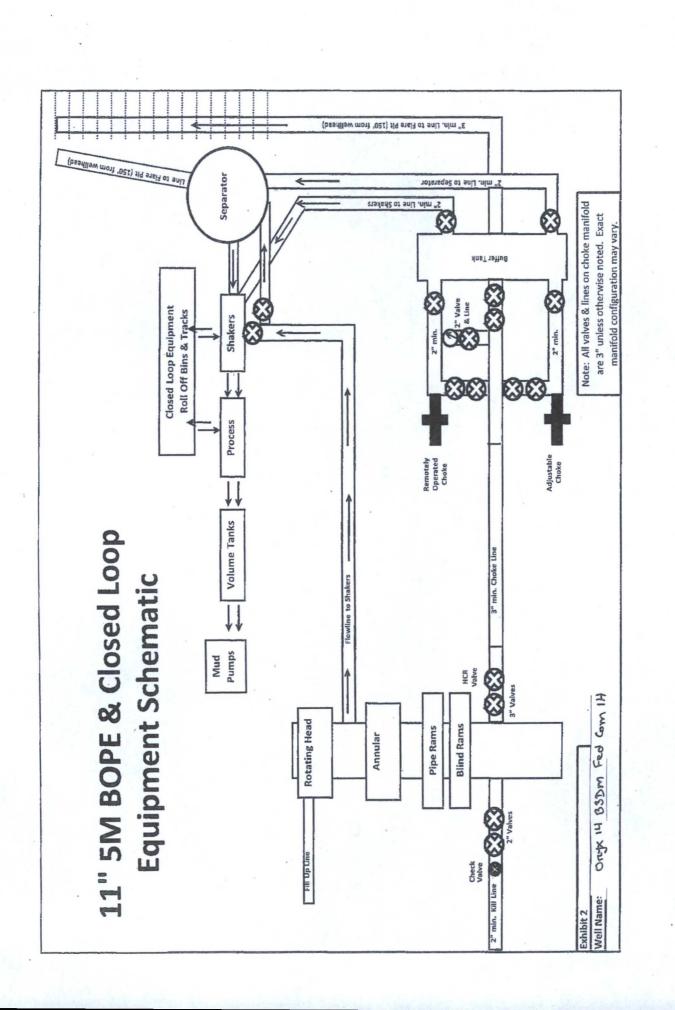
Oryx 14 B3DM Fed Com #1H 185' FNL & 660' FWL (SHL) Sec 14-T23S-R34E Lea County, New Mexico

- 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.









GATES E & S NORTH AMERICA, INC. 134 44TH STREET CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807 361-887-0812

EMAIL: Tim.Cantu@gates.com

WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	AUSTIN DISTRIBUTING	Test Date:	4/30/2015	
Customer Ref. :	4060578 500506	Hose Serial No.: Created By:	D-043015-7 JUSTIN CROPPER	
Invoice No. :				
Product Description:		10K3.548.0CK4.1/1610KFLGE/E		1
	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG	
End Fitting 1:			L36554102914D-043015-7	
End Fitting 1 : Gates Part No. :	4773-6290	Assembly Code :	1000011020110 0100207	

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager:

Date:

Signature:

QUALITY

Produciton: 4/30/2015

Date:

Signature :

Form PTC - 01 Rev.0 2



PRODUCTION

4/30/2015

