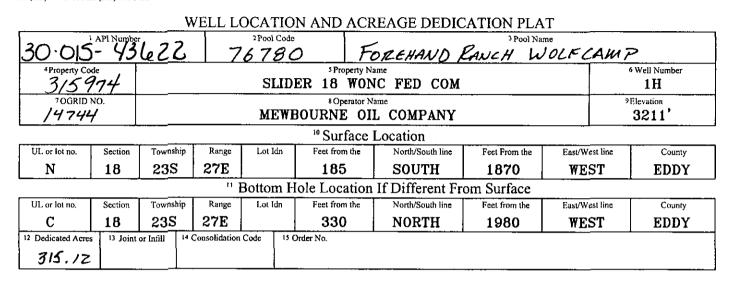
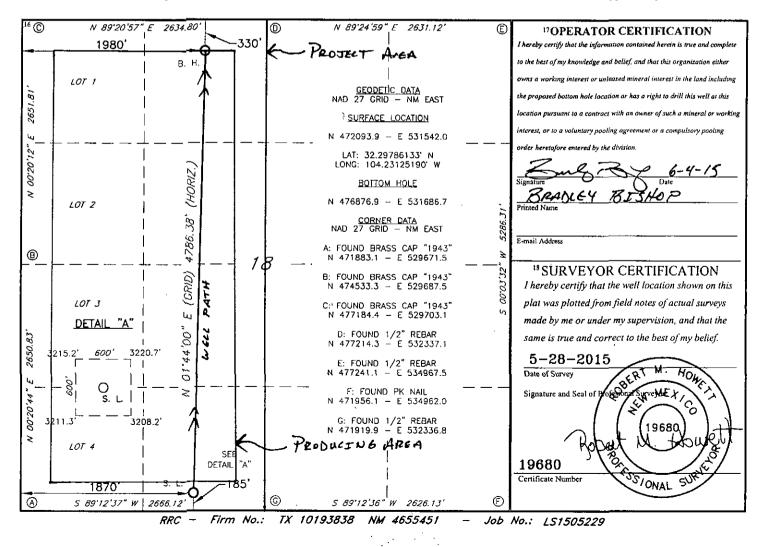
		OCD Arte	sla		/5-	698
Form 3160 - 3 (March 2012)				OMB	4 APPROVI No. 1004-01	37
UNITED STATES DEPARTMENT OF THE I				5. Lease Serial No.	October 31, 2	2014
BUREAU OF LAND MAN				NMNM0275360,N 6. If Indian, Allote	··• — ·	
APPLICATION FOR PERMIT TO	DRILL OF	REENTER				
la. Type of work: DRILL REENTE	ER			7 If Unit or CA Ag	reement, Na	ume and No.
Ib. Type of Well: Oil Well 🖌 Gas Well Other	🗸 Si	ngle Zone 🔲 Multi	ple Zone	8. Lease Name and Slider 18 WONC F		#1H
2. Name of Operator Mewbourne Oil Company				9. API Well No. 30-0/5-	B	622
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No 575-393-5). (include area code) 905		10. Field and Pool, or Forehand Ranch		-
4. Location of Well (Report location clearly and in accordance with an	y State requirem	ents.*)		11. Sec., T. R. M. or		
At surface 185' FSL & 1870' FWL, Sec 18 T23S R27E At proposed prod. zone 330' FNL & 1980' FWL, Sec 18 T23		IORTHOD	XC	Sec 18 T23S R27	E .	
 Distance in miles and direction from nearest town or post office* 9 miles S of Carlsbad, NM 	IS NZI LUI	LOCATION	Ň.	12. County or Parish Eddy		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		cres in lease /5360 - 1,355.19 10701A - 795.74	17, Spacin 315.12	g Unit dedicated to this	well	
 Distance from proposed location* to nearest well, drilling, completed, Fed Corn #1H applied for, on this lease, ft. 	19. Proposed 8,940' - TV 13,517' - N	/D		MBIA Bond No. on file 93 nationwide, NMB-000919		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3211' - GL	,	mate date work will sta	1 rt*	23. Estimated duration 60 days		
	24. Attac	chments		L		
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be a	ttached to thi	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	Item 20 above). 5. Operator certific	ation	ns unless covered by an original structure of the second structure of the seco	-	·
25. Signature	Name	(Printed/Typed)			Date	
File Bradley But	Bradl	ey Bishop		·	06/04/2	015
Approved by (Signatures Steve Caffey	Name	(Printed/Typed)			DateJAN	2720
Title	Office			OFFICE		2720
FIELD MANAGER Application approval does not warrant or certify that the applicant holds	s legal or equit				entitle the a	pplicant to
conduct operations thereon. Conditions of approval, if any, are attached.			-	PROVAL FO		••
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as to			villfully to m	ake to any department	or agency (of the United
(Continued on page 2)		ERVATIC	М	*(Ins	tructions	on page 2
sbad Controlled Water Basin	WI OIL C ARTI	CONSERVATION ESIA DISTRICT AN 29 2416				
	2	RECEIVED SE		TACHED F		

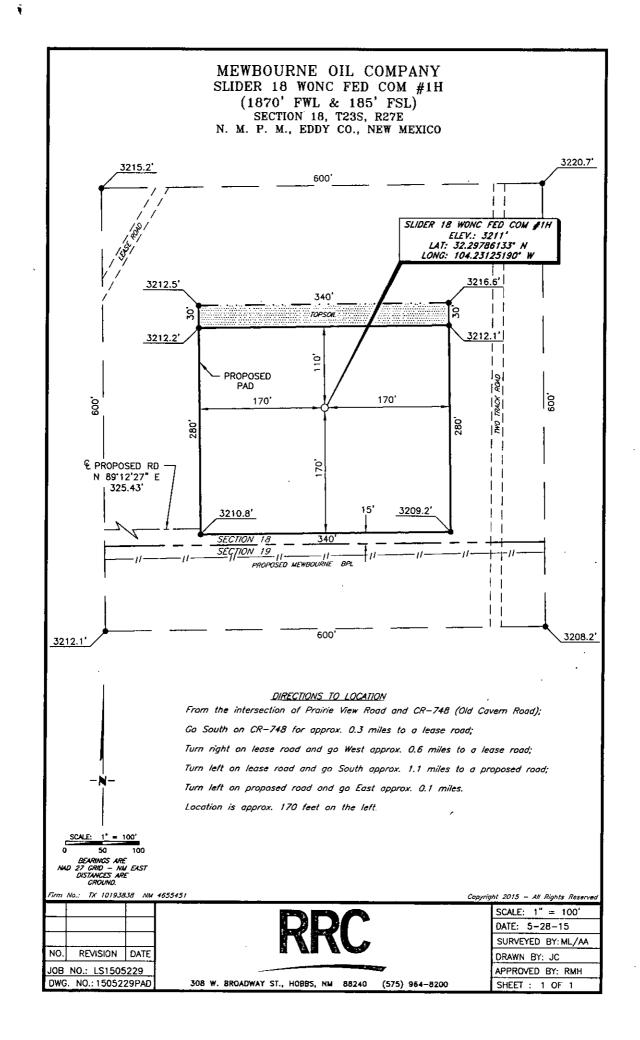
District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3406 Pax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

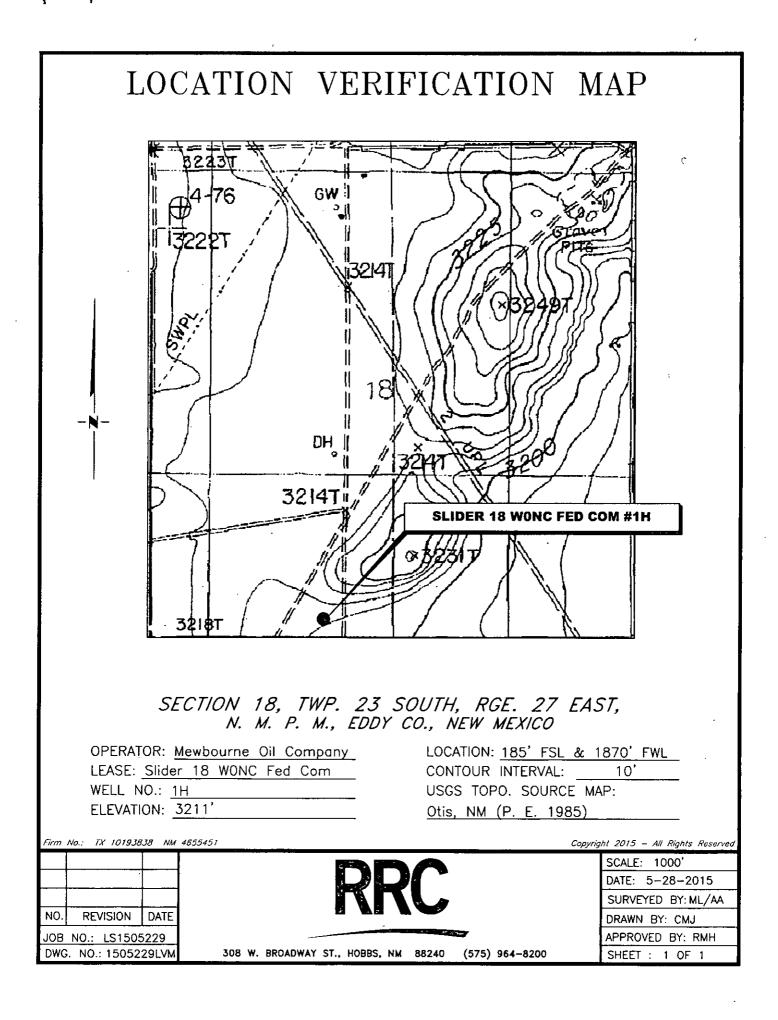
AMENDED REPORT

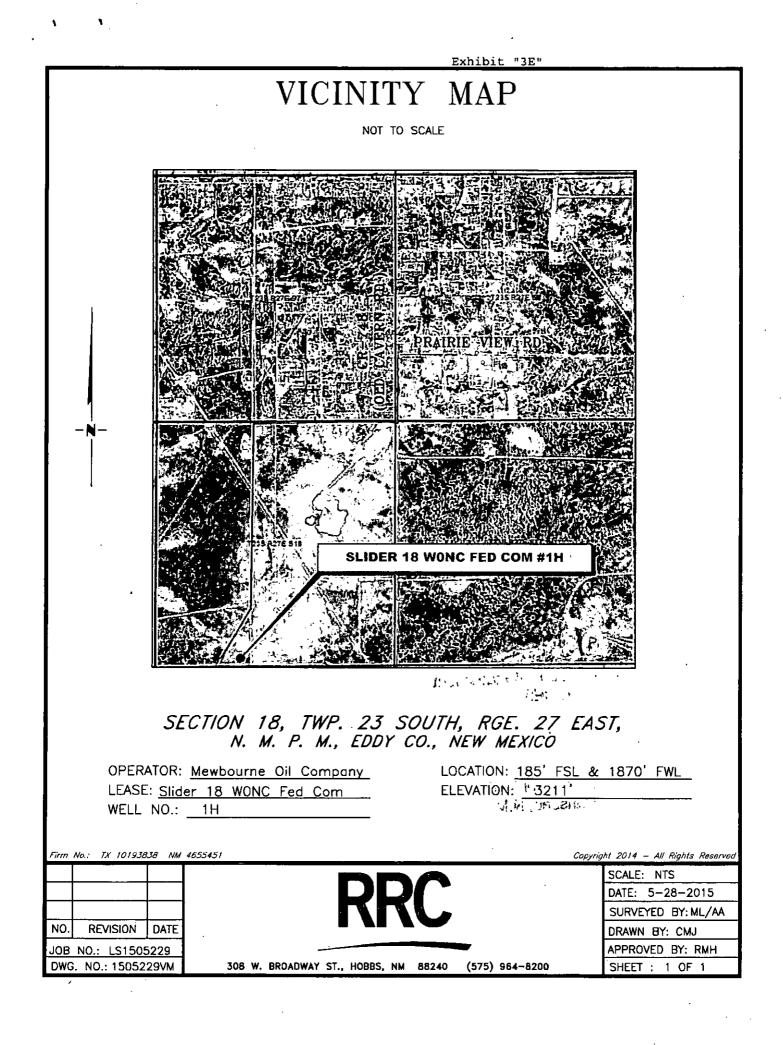


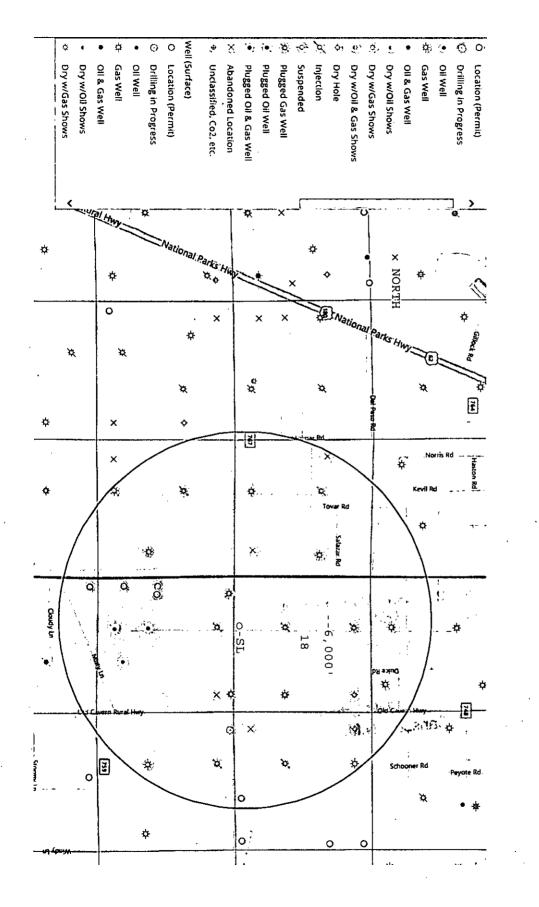
No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



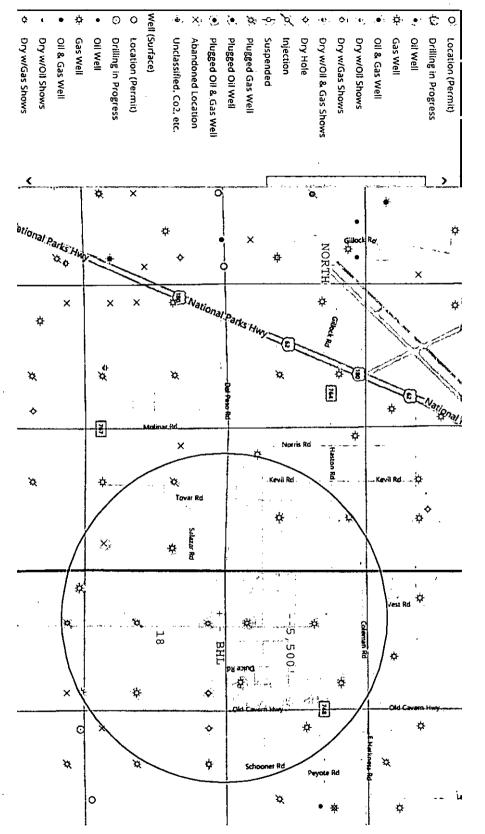














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1. Geologic Formations

TVD of target	8940'	Pilot hole depth	NA
MD at TD:	13517'	Deepest expected fresh water:	175'

Basin

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Dasin		· · · · · · · · · · · · · · · · · · ·	
Formation	Depth(IIVD) fromKB	WeterMinerellBearing/	HEZERGIS[®] ()
Quaternary Fill	Surface		
Rustler			
Top of Salt			
Castile	500	Barren	
Lamar	1925	Oil	
Bell Canyon			
Cherry Canyon			ſ
Manzanita Marker	2815		
Brushy Canyon			
Bone Spring	5340	Oil/Gas	
1 st Bone Spring Sand			
2 nd Bone Spring Sand			,
3 rd Bone Spring Sand			۱.
Abo			
Wolfcamp	8820	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

2. Casing Program

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Hole	Casing Direction	<u>Intervel</u>	CCB ST70	Weight	Grade	Conn	TR TR	े डाइ ्रे सिम्हरी	SF.
17.5"	0'	525'	13.375"	48	H40	STC	2.71	6.34	12.78
12.25"	0'	1850'	9.625"	36	J55	LTC ·	2.10	3.66	6.80
8.75"	0'	8463'	7"	26	HCP110	LTC	1.77	2.26	2.89
8.75"	8463'	9214!	7"	26	HCP110	BTC	1.68	2.14	42.51
6.125"	8463'	13517'	4.5"	13.5	P110	LTC	2.30	2.67	4.94
	· · · · · · · · · · · · · · · · · · ·			BLM Min	imum Safet	y 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

	YORNS				
Is casing new? If used, attach certification as required in Onshore Order #1					
Is casing API approved? If no, attach casing specification sheet.	Y				
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Ν				
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y				
justification (loading assumptions, casing design criteria).					
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y				
collapse pressure rating of the casing?					
	CPLANE MARKENERS				
Is well located within Capitan Reef?	<u>N</u>				
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?					
Is well located in high Cave/Karst?	Y				
If yes, are there two strings cemented to surface?	Y				
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?					
LANGE MET LE REAL CATRENN HELLEN MENNEN EN REAL CATRENCE EN LE					
Is well located in critical Cave/Karst?	N				
If yes, are there three strings cemented to surface?					

<u></u>	Cem	<u>enting P</u>	<u>rogram</u>	- vee	, Ur		·
G	धी इ	4 5	ÌIJ,		gdØ. sik	500# Comp. Strength (hours)	ShurayDescription
Sur	rf.	220	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
Int	ter.	220	12.5	2.12	11	10	Lead: Class C (35:65:4) + 5% Sodium Chloride +5#/sk LCM +0.25lb/sk Cello-Flake
8		200	14.8	1.34	6.3	8	Tail: Class C + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
Pro	od.	450	12.5	2.12	11	9	Lead: 60:40:0 Class C + 15.00 lb/sk BA-90 + 4.00% MPS-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free
		400	15.6	1.18	5.2	10	Tail: Class H + 0.65% FL-52 + 0.10% R-3 + 0.005 lb/sk Static Free
Lin	her	205	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

See COA

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

Casing Shing	TOC	WExcess
Surface	0'	100%
Intermediate	0'	25%
Production	1650'	25%
Liner	8463'	25%

Lenvent Cenvent Gee

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4. Pressure Control Equipment See COA

Variance: None

BOPInstalled andlested beforødfilling wilfenhols?	Size	System Rateil WR	Type		Tiested toa
			Annular	X	1250#
			Blind Ram		ZOCO # See COA
12-1/4"	13-5/8"	3M	Pipe Ram		\leq \sim
			Double Ram		Jee COH
			Other*		
			Annular	X	2500#
			Blind Ram	X	
8-3/4"	11"	5M	Pipe Ram	X	5000#
			Double Ram		3000#
	•		Other*		
			Annular	X	2500#
			Blind Ram	X	
6-1/8"	11"	5M	Pipe Ram	X	5000#
			Double Ram		5000#
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high v 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.

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.

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

Y

<u>D</u>	p <u>fih</u> .	Type	Walght (ppg)	Viscosiliy	WaterLloss
Million		A State of the second s		a faith and interesting the states of	and the second
0	525	FW Gel	8.6-8.8	28-34	N/C
525	1850	Saturated Brine	10.0	28-34	N/C
1850	8463	Cut Brine	8.6-9.5	28-34	N/C
8463	13517	FW w/Polymer	10.0-13.0	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	Pason/PVT/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures _____ See CON

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

Add	litional logs planned	Interval
X	Gamma Ray	8463'(KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

7. Drilling Conditions See COA

Condition	Specifywhattypeandwhere?
BH Pressure at deepest TVD	3844 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

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

Mewbourne Oil Company

Eddy County, New Mexico Slider 18 W0NC Fed Com 1H Sec 18, T23S, R27E SL: 185' FSL & 1870' FWL BHL: 330' FNL & 1870' FWL

Plan: Design #1

Standard Planning Report

03 June, 2015

	··· <u>·</u> ····								
Database:	. Hobbs			Local Co-ordi	iate Refére	ence:	Site Slider 18 W	ONC Fed Com 1	
Company:	Mewbourne Oil Cor	mpany		TVD Referenc	/ /	414		ousft (Original We	
Project:	Eddy County, New	•••		MD Reference	` ** F	4	-	Jusft (Original We	· · •
Site:	Slider 18 WONC Fe			North Referen	~ • •	,	Grid	den (ongina me	
	Sec 18, T23S, R27			Survey Calcul			Minimum Curvat	hira	
Wéll:				Survey Calcul	auon meon	00.	Withinfidin Curva	ure	
Wellbore:	- ; BHL: 330' FNL & 18								
Design:	Design #1	· · · · · · · · · · · · · · · · · · ·		1. 25.					
Project .	Eddy County, New N	/lexico							
Map System:	US State Plane 1927	(Exact solution)		System Datum:		м	ean Sea Level		
Geo Datum:	NAD 1927 (NADCON	CONUS)							
Map Zone:	New Mexico East 300	1							
Site	Slider 18 W0NC Fee	Com 1H							
Site Position:		Northir	ia:	472,093	.90 usft	Latitude:			32* 17' 52.301 N
From:	Мар	Easting	•	531,542		Longitude:			104° 13' 52.507 W
	•	-	•	•		-			0.05 °
Position Uncertainty	· · ·	0.0 usft Slot Ra			5-3/10	Grid Conver	gence:		
Well	Sec 18, T23S, R27E								
Well Position	+N/-S	0.0 usft Nor	thing:	4	72,093.90 u	usft Lat	stude:		32° 17' 52.301 N
	+E/-W		ting:		31,542.00 u		ngitude:		104° 13' 52,507 W
	TE/***		-				-		
Position Uncertainty		0.0 usft We	Ihead Elevation:		3,236.0 t	usπ Gr	ound Level:		3,211.0 usft
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	IGRF20051	0 12	2/31/2009		8.05		60.19		48,764
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Design	Design #1								
Audit Notes:					_				
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	nation 🥂 Azimuth	Depth	2 State 1 State			. Rate	Rate	TFO	
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9,213.8	90.15 0.35	8,940.0	478.7	2.9	12.00	12.00	0.00	0.35	
13,516.8	90.15 0.35	8,929.0	4,781.7	29.3	0.00	0.00	0.00	0.00 BH	IL: 330 FNL & 1870

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Database:	Hobbs			Local Çõ	ordinate Refer	ence:	Site Slider 18 W	ONC Fed Com 1	н
Company:	Mewbourne Oi	I Company		TVD Refe	rence:		WELL @ 3236.0)usft (Original W	ell Etev)
Project	Eddy County, 1	New Mexico		MD Refer	ence:	- A	WELL @ 3236.0	Dusft (Original W	ell Elev)
Site:	Slider 18 W0N	C Fed Com 1H		North Re			Grid		
Well:	Sec 18, T23S	R27E		1	alculation Meth		Minimum Curva	hire	
Wellbore:	BHL: 330' FNL		•			Caller,			
		a 1070 FVL							
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3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	´ 0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0,00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0				
4,000.0	0.00	0.00	4,000.0	0,0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,400.0		0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0,00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0,0	0.0	0.0	0.00	0.00	0.00

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COMPASS 5000.1 Build 72

Database:	Hobbs	· · · · · · · · · · · · · · · · · · ·			ordinate Ref	• 79 - 94k	Site Slider 19 V	VONC Fed Com	4LI
Company:	Mewbourne Oil (Company				erence:			
"Boder 3" School Basis	*			TVD Refe		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	-	Ousft (Original V	
Project:	🖁 Eddy County, Ne			MD Refer	ence:		WELL @ 3236.	Ousft (Original V	Vell Elev)
Site:	Slider 18 W0NC	Fed Corn 1H		North Re	егелсе:		Grid		
Well: New Sector	Sec 18, T23S, R	27E		Survey C	alculation Me	thod:	Minimum Curva	ature	
Wellbore:	BHL: 330' FNL 8	1870' FWL		In sec. 6		T.			
States and shares in the second		• • • • • • • • •		the state of the s	4				
Design:	Design #1								
Planned Survey	P.3								
COMPLEX STREET, STREET	and wat he stands		The second second	1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 -	erie de Elefra	AT A ALCANO		* <u></u>	क्राल्य :
		ৰ পুৰু জিলা হ	Vertical			1.5.5	la serie de la La serie de la s		بر ایک کر
Measured					*****	Vertical	Dogleg	Build	Turn
Depth	and the second s	Azimuth	Depth 1		+EI-WSA翻译	Section	Rate	Rate	Rate
(usft)		₩ (°) %-<3.5	्र (usft)। क्रि	Si (usft)	(usft) a the	(usft)	("/100usft) 🍼 ("/100úsft) 🦉 🖓	(*/100usft)
5,300.0	0.00	0.00	5,300.0	0.0	0,0	0.0	0.00	<u> </u>	
1 '	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	·0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00 '
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600,0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6.800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
0,500.0	0.00	0.00	0,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0,00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
		0.00							
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0 _. 00	0.00	0,00
8,000.0	0.00	, 0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	. 0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0,0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
· · ·							•		
8,462.5	0.00	0.00	8,462.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 8463									
8,500.0	4.50	0.35	8,500.0	1.5	0.0	1.5	12.00	12.00	0.00
8,600.0	16.50	0.35	8,598.1	19.7	0.1	19.7	12.00	12.00	0.00
8,700.0	28.50	0.35	8,690.3	57.9	0.4	57.9	12.00	12.00	0.00
8,800.0	40.50	0.35	8,772.6	114.4	0.7	114.4	12.00	12.00	0.00
8,844.7	45.86	0.35	8,805.2	145.0	0.9	145.0	12.00	12.00	0.00
FTP: 330 FSL			-1	110.0	0.0	140.0	12.00	.2.00	0.00
8,900.0	52.50	0.35	8,841.3	186.8		180.0	42.00		0.00
		0.35	8,893.5		1.1	186.8	12.00	12.00	0.00
9,000.0	64.50 76.40	0.35		271.9	1.7	271.9	12.00	12.00	0.00
9,100.0	76.49		8,926.8	366.0	2.2	366.0	12.00	12.00	0.00
9,200.0	88.49	0.35	8,939.8	464.9	2.9	464,9	12.00	12.00	0.00
9,213.8	90.14	0.35	8,940.0	478.7	2.9	478.7	12.00	12.00	0.00
LP: 665 FSL &									*
9,300,0	90.15	0.35	8,939.8	564,9	3.5	564.9	0.00	0.00	0.00
9,400.0	90.15 90.15	0.35	8,939.5 8,939.5	664.9	3.5 4.1	564.9 664.9	0.00		0.00
		0.35						0.00	
9,500.0	90.15		8,939.3 8,939.0	764.9	4.7	764.9	0.00	0.00	0.00
9,600.0	90,15	0.35	8,939.0	864.9	5.3	864.9	0.00	0.00	0.00
9,700.0	90,15	0.35	8,938,8	964.9	5.9	964.9	0.00	0.00	0.00
9,800.0	90.15	0.35	8,938.5	1,064.9	6.5	1,064.9	0.00	0.00	0.00
9,900.0	90.15	0.35	8,938.2	1,164.9	7.1	1,164.9	0.00	0.00	0.00
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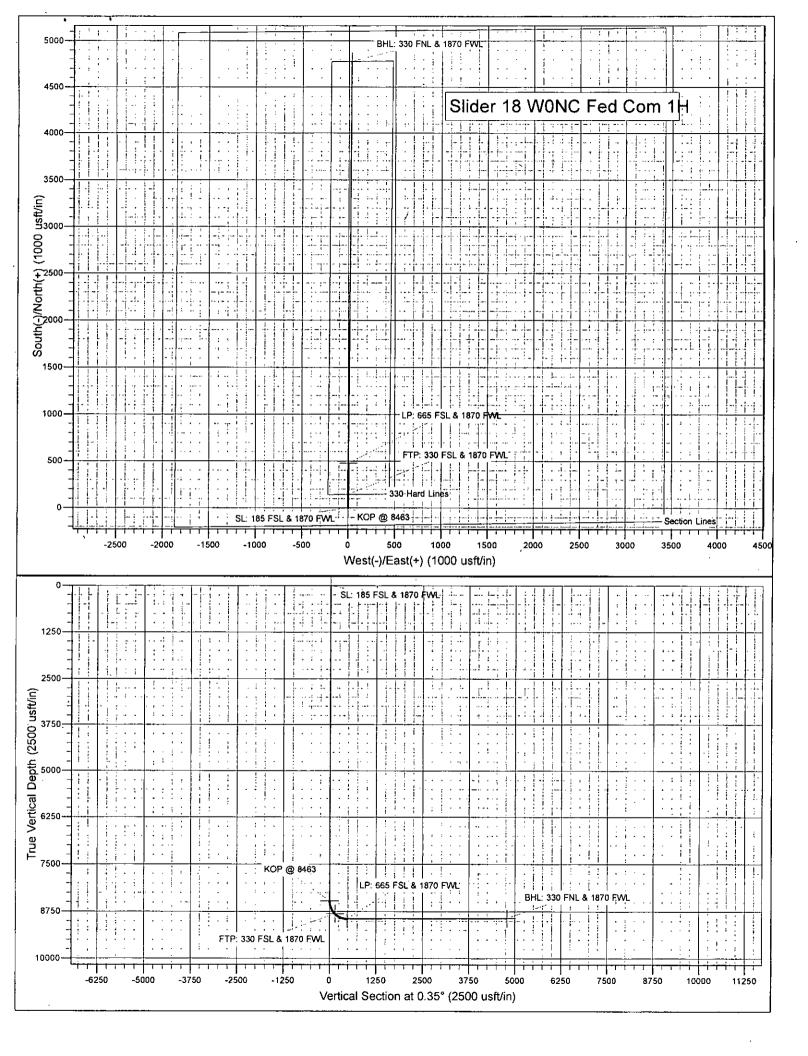
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COMPASS 5000.1 Build 72

atabase:	Hobbs			Local Co	ordinate Ref	erence:	Site Slider 18 W	ONC Fed Com	1H
ompany:	Mewbourne Oil Co	mpany		TVD Refe			WELL @ 3236.0	Dusft (Original W	(ell Elev)
oject:	Eddy County, New	/ Mexico		MD Refer	ence:		WELL @ 3236.0	• -	,
te:	Slider 18 WONC F	ed Com 1H		North Re	·	1000	Grid		
èll:	Sec 18, T23S, R27		•	1. C	alculation Me	نې د د د اسمناه	Minimum Curva		
1°	BHL: 330' FNL & 1			Survey	alculation Me	uioa:	wantourn Curva	ule	
A STATE AND A STATE		OTO FVVL	•						
The second s	Design #1	····		<u> </u>	<u></u>	Sec. St. St.	L	·····	
anned Survey 23	1								
	11. 20 A \$100		Service .	والمراجعة والمراجع	्र क		1.4.2.2.2	in the state	
Measured St.		14	Vertical			Vertical	Dogleg	Build	
A CONTRACTOR OF	Inclination) 47 Az	zimuth (xets)	Depth 😽 🐐	3+N/-S	+E/-W	Section	Rate	Rate	Refor
(usft)	(<u>)</u>	(9)	(usft)		7. 6 4.	(usft)	-		?/100usft)
	ULS CONT	の意識など	(dait)	(usft)	(usft)	usit,	`(*/100usft)```('		Tiousiu
10,000.0	90.15	0.35	8,938.0	1,264.9	7,8	1,264.9	0.00	0.00	0.00
10,100.0	90.15	0.35	8,937.7	1,364.9	8.4	1,364.9	0.00	0.00	0.00
10,200.0	90.15	0.35	8,937.5	1,464.9	9.0	1,464.9	0.00	0.00	0.00
10,300.0	90.15	0.35	8,937.2	1,564,9	9,6	1,564.9	0.00	0.00	0.00
10,400.0	90.15	0.35	8,937.0	1,664.9	10,2	1,664.9	0.00	0.00	0.00
10,500.0	90.15	0.35	8,936.7	1,764.9	10.8	1,764.9	0.00	0.00	0.00
10,600.0	90.15	0.35	8,936.5	1,864.9	11.4	1,864.9	0.00	0.00	0.00
10,700.0	90.15					-		•	
		0.35	8,936.2	1 964.9	12.0	1,964.9	0.00	0.00	0.00
10,800.0	90.15	0.35	8,935.9	2,064.9	12.7	2,064.9	0.00	0.00	0.00
10,900.0	90.15	0.35	8,935.7	2,164.9	13.3	2,164.9	0.00	0,00	0.00
11,000.0 11,100.0	90.15 90.15	0.35	8,935.4	2,264.9	13.9	2,264.9	0.00	0.00	0.00
11,100.0	90.15	0.35	8,935.2	2,364.9	14.5	2,364.9	0.00	0.00	0.00
11,200.0	90.15	0.35	8,934.9	2,464.9	15.1	2,464.9	0.00	0.00	0.00
11,300.0	90.15	0.35	8,934.7	2,564.9	15.7	2,564.9	0.00	0.00	0.00
11,400.0	90.15	0.35	8,934.4	2,664.9	16.3	2,664.9	0.00	0.00	0.00
11,500.0	90.15	0.35	8,934.2	2,764.9	17.0	2,764.9	0.00	0.00	0.00
11,600.0	90.15	0.35	8,933.9	2,864.9	17.6	2,864.9	0.00	0.00	0.00
11,700.0	90.15	0.35	8,933.6	2,964.9	18.2	2,964.9	0.00	0.00	0.00
11,800.0	90.15	0.35	8,933.4	3,064.9	18.8	3,064.9	0.00	0.00	0.00
11,900.0	90.15	0.35	8,933.1	3,164.9	19.4	3,164.9	0.00	0.00	0.00
12,000.0	90.15	0.35	8,932.9	3,264,9	20.0	3,264.9	0.00	0.00	0.00
12,100.0	90.15	0.35	8,932.6	3,364.9	20.6	3,364.9	0.00	0.00	0.00
12,200.0	00.15	0.95							
12,200.0	90.15 90.15	0.35 0.35	8,932,4 8,932,1	3,464.9	21.2	3,464.9	0.00	0.00	0.00
12,400.0	90.15	0.35	8,932.1 8,931.9	3,564.9 3,664.9	21.9 22.5	3,564.9	0.00	0.00	0.00
12,500.0	90.15	0.35	8,931.9 8,931.6	3,764.9	22.5	3,664.9 3,764.9	0.00 0.00	0.00 0.00	0.00
12,600.0	90.15	0.35	8,931.3	3,864.9	23.1	3,764,9 3,864,9	0.00	0.00	0.00 0.00
12,700.0	90.15	0.35	8,931.1	3,964.9	24.3	3,964.9	0.00	0.00	0.00
12,800.0	90.15	0.35	8,930.8	4,064.9	24.9	4,064.9	0.00	0.00	0.00
12,900.0	90,15	0.35	8,930.6	4,164.9	25.5	4,164.9	0.00	0.00	0.00
13,000.0	90.15	0.35	8,930.3	4,264.9	26.2	4,264.9	0.00	0.00	0.00
13,100.0	90,15	0.35	8,930.1	4,364.8	26.8	,4,364.9	0.00	0.00	0.00
13,200.0	90.15	0.35	8,929.8	4,464.8	27.4	4,464.9	0.00	0.00	0.00
13,300.0	90.15	0.35	8,929.6	4,564.8	28.0	4,564.9	0.00	0.00	0.00
13,400.0	90.15	0.35	8,929.3	4,664.8	28,6	4,664.9	0.00	0.00	0.00
13,500.0	90.15	0.35	8,929.0	4,764.8	29.2	4,764.9	0.00	0.00	0.00
13,516.8	90.15	0.35	8,929.0	4,781.7	29.3	4,781.8	0.00	0.00	0.00
	& 1870 FWL								

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Project: Eddy Site: Slide Well: Sec Wellbore: BHL: Design: Design	oourne Oil C County, Ne r 18 W0NC 18, T23S, R/ 330' FNL &	w Mexico Fed Com 27E			TVD Referen MD Referenc North Refere	θ.	ိုင်ဦ WELL@3	18 W0NC Fed Com 236.0usft (Original V 236.0usft (Original V Curvature	/ell Elev)
Design Targets Target Namo - hit/miss Carget Dip - Shapo	Angle in D		TVD (usft)	+N/-S (usft)	-+E/_W (usft)	Northing (usft)	Easting (usit)	a Linundo	dengitudo - Ar
SL: 185 FSL & 1870 FW - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	472,093.90	531,542.00	32° 17' 52.301 N	104° 13' 52.507 W
KOP @ 8463 - plan hits target center - Point	0.00	0.00	8,462.5	0.0	0.0	472,093.90	531,542.00	32° 17' 52.301 N	104° 13' 52.507 W
FTP: 330 FSL & 1870 F\ - plan hits target center - Point	0.00	0.00	8,805.2	145.0	0.9	472,238.90	531,542.90	32° 17' 53.736 N	104° 13' 52.495 W
BHL: 330 FNL & 1870 F – plan hits target center – Point	0.00	0.00	8,929.0	4,781.7	29.3	476,875.59	531,571.32	32° 18' 39.621 N	104° 13' 52.112 W
LP: 665 FSL & 1870 FW - plan hits target center - Point	0,00	0.00	8,940.0	478.7	2.9	472,572.60	531,544.90	32° 17' 57.038 N	104° 13' 52.468 W



Mewbourne Oil Company

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Eddy County, New Mexico Slider 18 W0NC Fed Com 1H Sec 18, T23S, R27E SL: 185' FSL & 1870' FWL BHL: 330' FNL & 1870' FWL Design #1

Anticollision Summary Report

26 January, 2016

Anticollision Summary Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Site Slider 18 W0NC Fed Com 1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3236.0usft (Original Well Elev)
Reference Site:	Slider 18 W0NC Fed Com 1H	MD Reference:	WELL @ 3236.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Sec 18, T23S, R27E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	BHL: 330' FNL & 1870' FWL	Database:	Hobbs
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum
Reference Filter type:	Design #1 NO GLOBAL FILTER: Using user defined selection	v	RNING: There is hidden light data in this project
Filter type: Interpolation Method:	NO GLOBAL FILTER: Using user defined selectic Stations	Error Model:	ISCWSA
Filter type: Interpolation Method: Depth Range:	NO GLOBAL FILTER: Using user defined selectic	Error Model: Scan Method:	•
Filter type: Interpolation Method: Depth Range: Results Limited by:	NO GLOBAL FILTER: Using user defined selectic Stations Unlimited Maximum center-center distance of 10,000.0 usft	Error Model: Scan Method: Error Surface:	ISCWSA Closest Approach 3D Elliptical Conic
Filter type: Interpolation Method: Depth Range: Results Limited by: Warning Levels Evalua	NO GLOBAL FILTER: Using user defined selectic Stations Unlimited Maximum center-center distance of 10,000.0 usft ted at: 2.00 Sigma	Error Model: Scan Method:	ISCWSA Closest Approach 3D
Filter type: Interpolation Method: Depth Range: Results Limited by: Warning Levels Evalua	NO GLOBAL FILTER: Using user defined selection Stations Unlimited Maximum center-center distance of 10,000.0 usft ted at: 2.00 Sigma Date 6/3/2015	Error Model: Scan Method: Error Surface:	ISCWSA Closest Approach 3D Elliptical Conic
Filter type: Interpolation Method: Depth Range: Results Limited by: Warning Levels Evalua	NO GLOBAL FILTER: Using user defined selectic Stations Unlimited Maximum center-center distance of 10,000.0 usft ted at: 2.00 Sigma	Error Model: Scan Method: Error Surface:	ISCWSA Closest Approach 3D Elliptical Conic

0.0 13,516.8 Design #1 (BHL: 33)	0' FNL & 1870' FWL)					
Summary						
	Reference	Offset	Dista	nce		
	Measured	Measured	Between	Between	Separation	Warning
Site Name Offset Well - Wellbore - Design	Depth (usft)	Depth (usft)	Centres (usft)	Ellipses (usft)	Factor	
Slider 18 W0NC Fed Com 1H						
Drag A #001 - Wellbore #1 - Design #1	0.0	0.0	4,455.2			
Drag A #001 - Wellbore #1 - Design #1	13,188,9	8,929.8	109.7			

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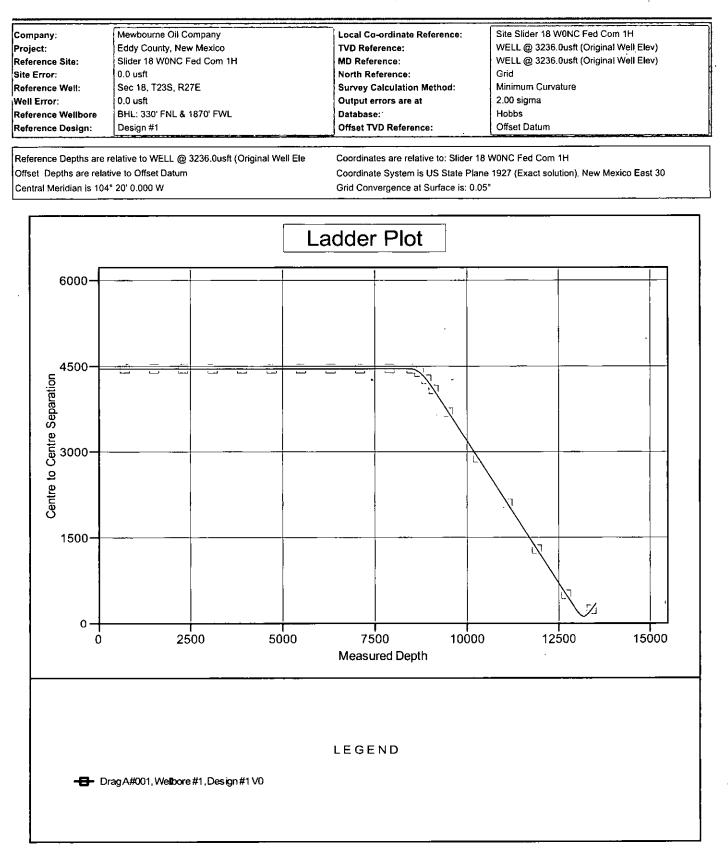
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Anticollision Summary Report

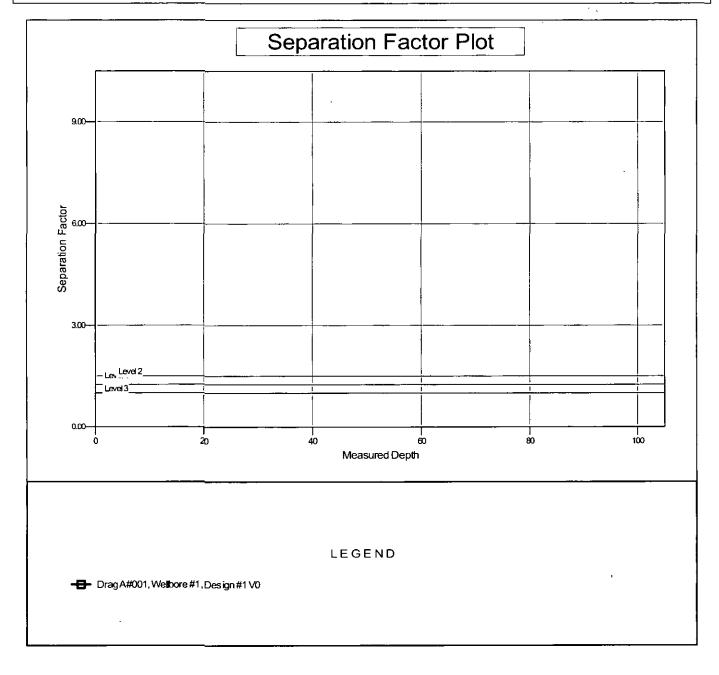


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Anticollision Summary Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Site Slider 18 W0NC Fed Com 1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3236.0usft (Original Well Elev)
Reference Site:	Slider 18 W0NC Fed Com 1H	MD Reference:	WELL @ 3236.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Sec 18, T23S, R27E	Survey Calculation Method:	Minimum Curvature
Weil Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	BHL: 330' FNL & 1870' FWL	Database:	Hobbs
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3236.0usft (Original Well Ele Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W Coordinates are relative to: Slider 18 W0NC Fed Com 1H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.05°

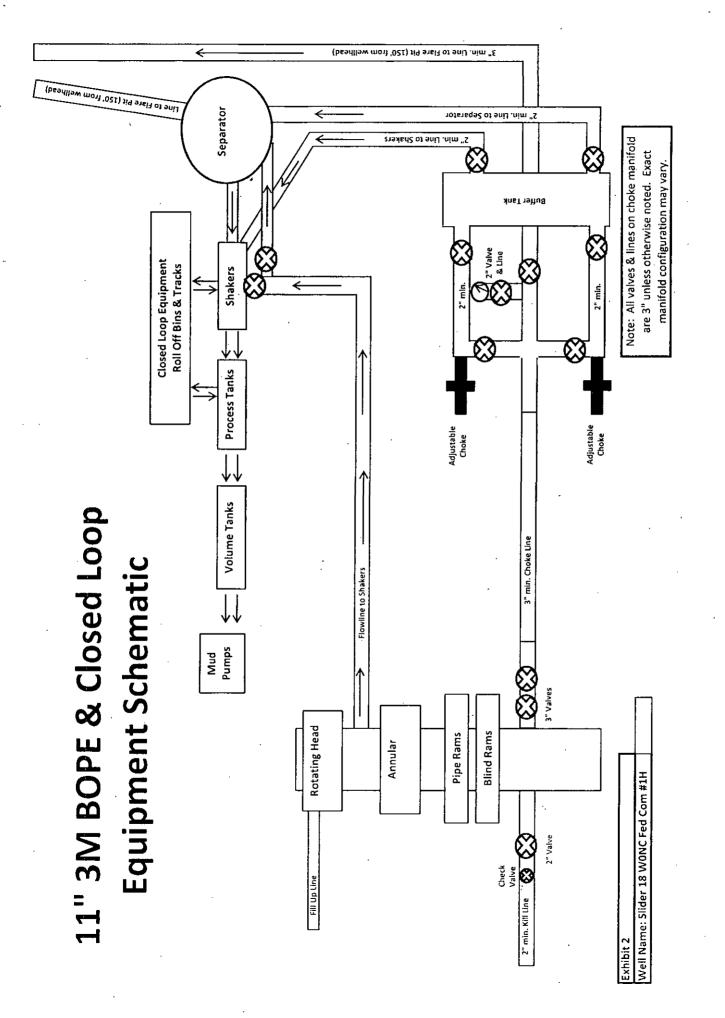


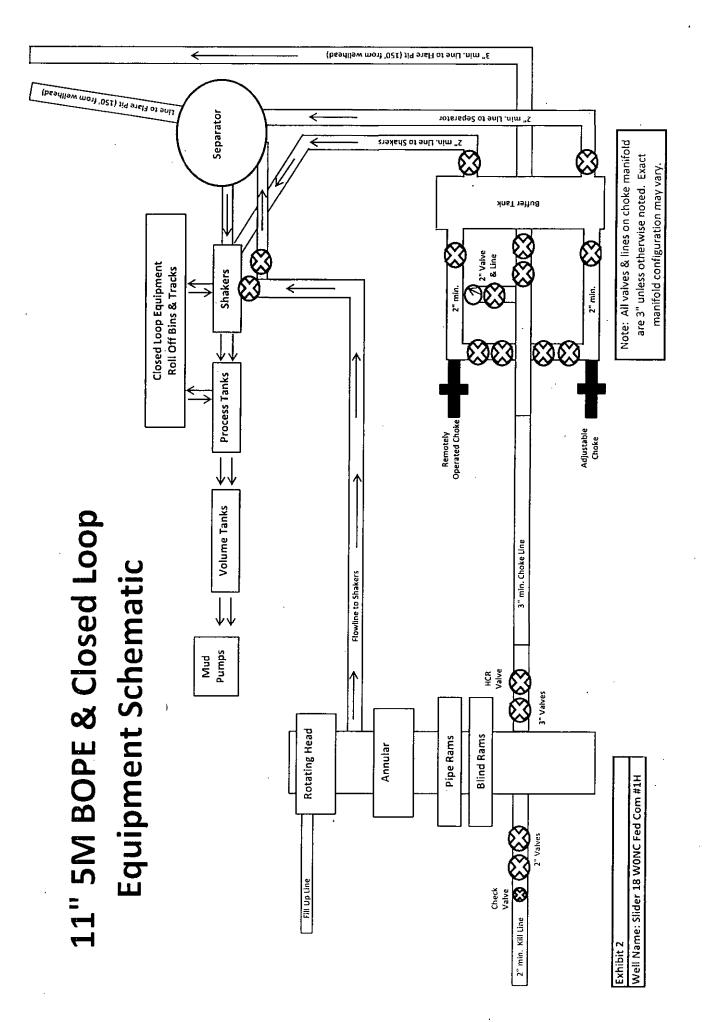
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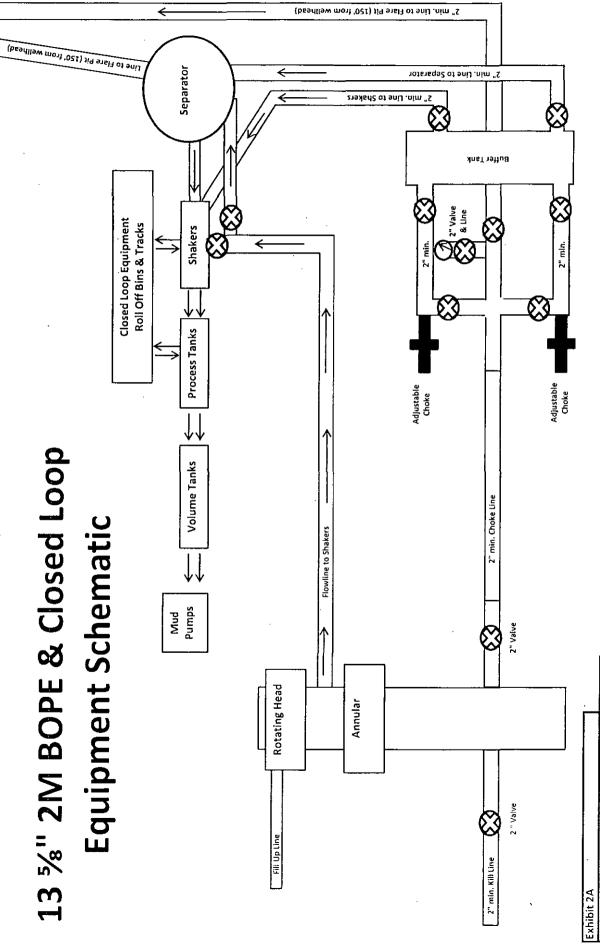
Notes Regarding Blowout Preventer Mewbourne Oil Company Slider 18 W0NC Fed Com #1H 185' FSL & 1870' FWL (SHL) Sec 18-T23S-R27E Eddy County, New Mexico

- 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.







Well Name: Slider 18 WONC Fed Com #1H

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company Slider 18 W0nc Fed Com #1H 185' FSL & 1870' FWL Sec 18-T23S-R27E Eddy County, New Mexico

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before the Delaware formation for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

- 1. The hazards and characteristics of hydrogen sulfide gas.
- 2. The proper use of personal protective equipment and life support systems.
- 3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
- 4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- 1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- 3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the 9 5/8" intermediate casing.

- 1. Well Control Equipment
 - A. Choke manifold with minimum of one adjustable choke/remote choke.
 - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
 - C. Auxiliary equipment including annular type blowout preventer.
- 2. <u>Protective Equipment for Essential Personnel</u>
 - Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H2S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H2S are detected the well will be shut in and a rotating head, mud/gas separator, remote choke and flare line with igniter will be installed.

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company Slider 18 WONC Fed Com #114 Page 2

3. <u>Hydrogen Sulfide Protection and Monitoring Equipment</u>

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. Visual Warning Systems

A. Wind direction indicators as indicated on the wellsite diagram.

B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. Well Testing

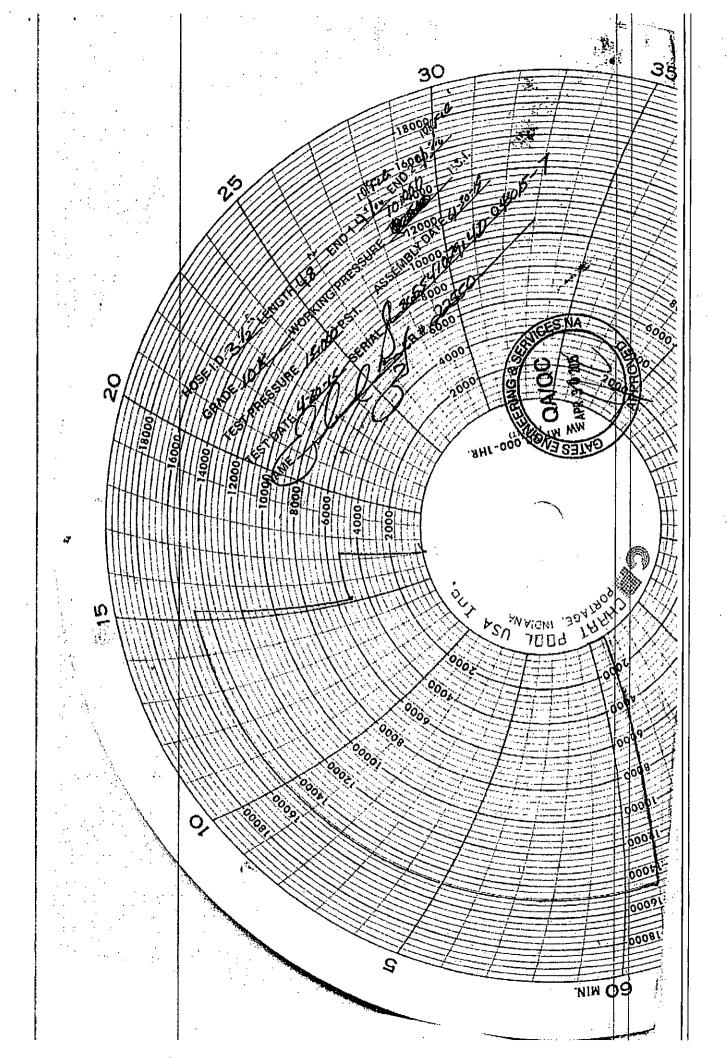
Drill stem testing is not an anticipated requirement for evaluation of this well. If a drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

8. Emergency Phone Numbers

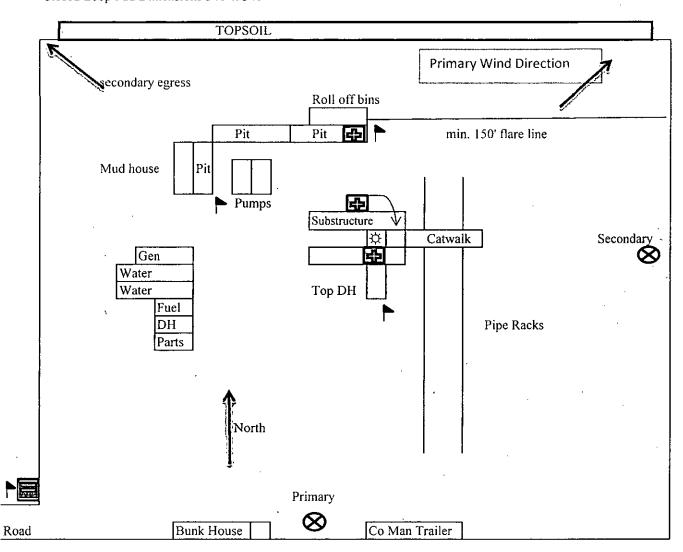
Eddy County Sheriff's Office	911 or 575-887-7551
Ambulance Service	911 or 575-885-2111
Carlsbad Fire Dept	911 or 575-885-2111
Loco Hills Volunteer Fire Dept.	911 or 575-677-3266
Closest Medical Facility - Columbia Medical Center	of Carlsbad 575-492-5000

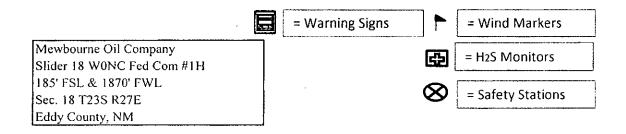
Mewbourne Oil Company	Hobbs District Office Fax 2 nd Fax	575-393-5905 575-397-6252 575-393-7259
District Manager	Robin Terrell	575-390-4816
Drilling Superintendent	Frosty Lathan	575-390-4103
	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

TES E & S NORTH AM ERICA, INC. PHONE: 361-887-9807 4 44TH STREET FAX: 361-887-9807 RPUS CHRISTI, TEXS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com 10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE Index of the state of	ES E & S NORTH AM ERICA, INC. PHONE: 361-887-9807 A4TH STREET FAX: 361-887-9807 IPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE 4/30/2015 Intomer: AUSTIN DISTRIBUTING Istomer Ref.: 4/3060578 Istomer Ref.: 4/300056 Created By: D-043015-7 JUSTIN COPPER JUSTIN COPPER Induct Description: INK3.546.0CK4.1/1610KFLGE/E LE Induct Description: 10K3.546.0CK4.1/1610KFLGE/E LE Gates E & S North America, Inc. cartifies that the following hose assembly has been tested to the Gates Oilfield Poughneck Agreement/Specification requirements and passed the 15 minute 9 to 15,000 psi In accordance with this product n	ES E & S NORTH AMERICA, INC. PHONE: 361-887-9807 A4TH STREET FAX: 361-887-0812 IPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE Image: 4/30/2015 stomer Ref.: 4/060578 oide No.: 500506 IDK3.548.0CM41/4610KFLGE/E UE Image: 4/30/2015 induct Description: Image: 41/16 10K FLG If Hiting 1: 41/16 10K FLG IF HER Pressure : Image: 10,000 PSI Infing Pressure : Image: 10,000 PSI 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 sydrostatic test per API Spec 7K/01, 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 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. Information: 4/30/2015 Information: Image: 4/30/2015 Information: Mage/Image: 100/000 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. Information: Ma	ES E & S NORTH AMERICA, INC. PHONE: 361-887-9807 A4TH STREET FAX: 361-887-9807 IPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE stomer : 4060376 istomer Ref.: 04060376 otice No.: 500356 rest Date: 4/30/2015 istomer Ref.: 04060376 otice No.: 500356 rest Date: 4/30/2015 istomer Ref.: 04060376 otice No.: 10K3.548.0CK4.1/4610KFLGE/E LE induct Description: 10K3.548.0CK4.1/4610KFLGE/E LE induct Description: 10K3.548.0CK4.1/4610KFLGE/E LE inking Pressure: 10,000 PSI Ed Ritting 1: 41/16 10K FLG de Ritting 1: 41/16 10K FLG de Ritting 1: 10,000 PSI de Ritting 1: 10,000 PSI de Ritting 2: 41/16 10K FLG description: 10,000 PSI Gates E & S North America, Inc. certifiles that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per AP	ES E & S NORTH AMERICA, INC. PHONE: 361-887-9807 A4TH STREET FAX: 361-887-9807 IPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE stomer : 4/30/2015 stomer Ref. : 060576 Ores Serial No;: D-043015-7 JUSTIN DISTRUBUTING Test Date: Hows Serial No;: D-043015-7 JUSTIN CROPER O-043015-7 Hous Serial No;: D-043015-7 JUSTIN CROPER O-043015-7 Hous Description: IOK3.548.0CK4.1/4610NFLGE/E LE Hitting 1 : 41/16 10K FLG Hitting 1 : 10/000 PSI Test Pressure : 15,000 PSI Gates E & S North America, Inc. certifiles that the following hose assembly has been tested to the Gates Oilffield 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.		-		•	•	1			
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TES E & S NORTH AM ERICA, INC. PHONE: 361-887-9807 FA4TH STREET FAX: 361-887-9807 RPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE 430/2015 Istomer :: 4060078 Istomer kef.: 4060078 Oreated By: JUSTIN COPPER oduct Description: 10K3.548.0CK4.1/1610KFI.GE/E LE oduct Description: 10K3.548.0CK4.1/1610KFI.GE/E LE oreated By: 10JUSTIN CROPPER oduct Description: 10K3.548.0CK4.1/1610KFI.GE/E LE oreated By: 10JUSTIN CROPPER oreated By: 10JUSTIN CROPPER oreated By: 10JUSTIN CROPPER oduct Description: 10K3.548.0CK4.1/1610KFI.GE/E LE oreated By: 10JUSTIN CROPPER Gatess Oilfifield Soughneck Agreement/Specification requirements an	ES E & S NORTH AMERICA, INC. PHONE: 361-887-9807 A4TH STREET FAX: 361-887-0812 IPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE 4/30/2015 stomer : 4060578 ideo 80.: 0003056 rest Date: 4/30/2015 ideo 80.: 0003056 rest Date: 4/30/2015 ideo 80.: 0003056 rest Date: 4/30/2015 ideo 907 JUSTIN COPPER idual Description: 10K3.548.0CK4.1/4510KFLGE/E LE ideiting 1: 41/16.10K.FLG dFitting 1: 41/16.10K.FLG ideiting 1: 41/16.10K.FLG ideiting 1: 41/16.10K.FLG ideiting 1: 10/000 PSI rest Pressure: 10,000 PSI Test Pressure: 13,000 PSI Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilffield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/01, 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 and pe	ES E & S NORTH AMERICA, INC. PHONE: 361-887-9807 A4TH STREET FAX: 361-887-0812 IPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE Image: 4/30/2015 stomer Ref.: 4/060578 oide No.: 500506 IDK3.548.0CM41/4610KFLGE/E UE Image: 4/30/2015 induct Description: Image: 41/16 10K FLG If Hiting 1: 41/16 10K FLG IF HER Pressure : Image: 10,000 PSI Infing Pressure : Image: 10,000 PSI 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 sydrostatic test per API Spec 7K/01, 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 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. Information: 4/30/2015 Information: Image: 4/30/2015 Information: Mage/Image: 100/000 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. Information: Ma	ES E & S NORTH AMERICA, INC. PHONE: 361-887-9807 A4TH STREET FAX: 361-887-9807 IPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE stomer : 4060376 istomer Ref.: 04060376 otice No.: 500356 rest Date: 4/30/2015 istomer Ref.: 04060376 otice No.: 500356 rest Date: 4/30/2015 istomer Ref.: 04060376 otice No.: 10K3.548.0CK4.1/4610KFLGE/E LE induct Description: 10K3.548.0CK4.1/4610KFLGE/E LE induct Description: 10K3.548.0CK4.1/4610KFLGE/E LE inking Pressure: 10,000 PSI Ed Ritting 1: 41/16 10K FLG de Ritting 1: 41/16 10K FLG de Ritting 1: 10,000 PSI de Ritting 1: 10,000 PSI de Ritting 2: 41/16 10K FLG description: 10,000 PSI Gates E & S North America, Inc. certifiles that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per AP	ES E & S NORTH AMERICA, INC. PHONE: 361-887-9807 A4TH STREET FAX: 361-887-9807 IPUS CHRISTI, TEXAS 78405 EMAIL: Tim.Cantu@gates.com WEB: www.gates.com IOK CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE stomer : 4/30/2015 stomer Ref. : 060576 Ores Serial No;: D-043015-7 JUSTIN DISTRUBUTING Test Date: Hows Serial No;: D-043015-7 JUSTIN CROPER O-043015-7 Hous Serial No;: D-043015-7 JUSTIN CROPER O-043015-7 Hous Description: IOK3.548.0CK4.1/4610NFLGE/E LE Hitting 1 : 41/16 10K FLG Hitting 1 : 10/000 PSI Test Pressure : 15,000 PSI Gates E & S North America, Inc. certifiles that the following hose assembly has been tested to the Gates Oilffield 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.		ENG	INFERING						
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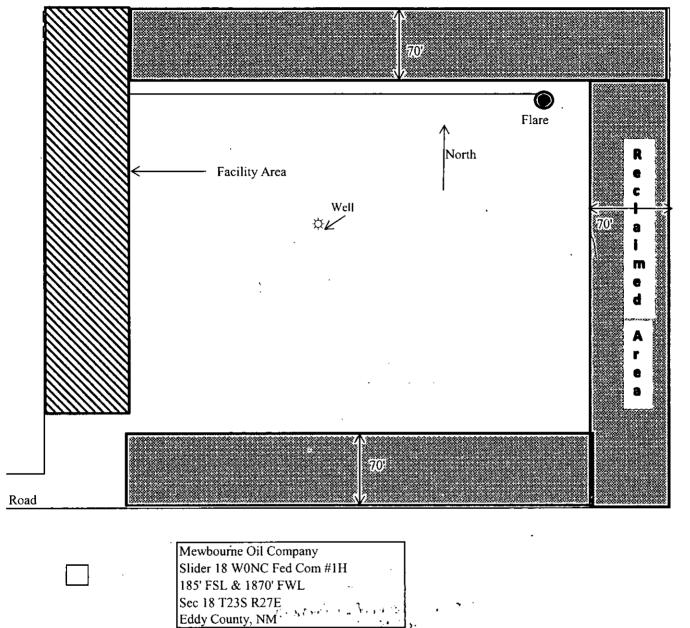


H2S Diagram Closed Loop Pad Dimensions 340' x 340'





Interim Reclamation Diagram



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MEWBOURNE OIL COMPANY P. O. BOX 7698 TYLER, TEXAS 75711

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SURFACE USE PLAN OF OPERATIONS MEWBOURNE OIL COMPANY

Slider 18 W0NC Fed Com #1H 185 FSL & 1870 FWL (SHL) Sec. 18 – T23S-R27E Eddy County, New Mexico

Introduction

This plan is submitted with Form 3160-3, Application for Permit to Drill, Covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved, and the procedures to be followed in restoring the surface so that a complete appraisal can be made of the environmental impact associated with the proposed operations.

1. Existing Roads

- a. The existing access road route to the proposed project is depicted on <u>Exhibit 3E</u>. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of this surface use plan.
- b. The existing oil and gas roads utilized to access the proposed project will be maintained by crowning, clearing ditches, and fixing potholes. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.
- c. Mewbourne Oil Co. will cooperate with other operators in the maintenance of lease roads, it is anticipated that MOC will blade & water the lease roads 3 times per year.

2. New or Reconstructed Access Roads

- a. An access road will be needed for this proposed project. See the survey plat(s) for the location of the access road ADSALIC UPLOTE
- b. The length of access road needed to be constructed for this proposed project is about 325.43 feet.
- c. The access road will be 14 feet wide and will be constructed with 6 inches of compacted caliche. A 25 foot wide area would be needed to construct the road.
- d. When the road travels on fairly level ground, the road will be crowned and ditched with a 2% slope from the tip of the road crown to the edge of the driving surface. The ditches will be 34 feet wide with 3:1 slopes.
- e. The access road will be constructed with a ditch on each side of the road.
- f. The maximum grade for the access road will be 5 percent.
- g. If the road is longer than 1,000 feet, turnouts will be constructed with an interval of 1,000 feet. Turnouts will be intervisible and will be 10 feet wide and 100 feet long.
- h. Low water crossings will be constructed where drainages cross the access road.

- i. Construction of new or reconstructed roads, on surface under the jurisdiction of the Bureau of Land Management will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-drained and safe road.
- j. An appropriately sized cattle guard will be installed where the proposed access road crosses a fence line.
- k. A BLM right-of-way grant is needed for the construction of this access road and one will be acquired prior to construction.
- 1. Lead-off ditches will be constructed for the proposed access road, but will not extend more than 15 feet outside the road edge.

3. Location of Existing Wells

a. <u>Exhibit 4, 4A</u> of the APD depicts all known wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities

- a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color that blends in with the surrounding landscape. The paint color will be one of the colors from the BLM Standard Environmental Colors chart selected by the BLM authorized officer.
- b. All proposed production facilities that are located on the well pad will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location.
- c. Production from the proposed well will be located on the West side of location.
- d. If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation of construction?
- e. An electric line will be applied for through a sundry notice or BLM right of way at a later date. $\mathbb{R} \cong \mathbb{Q} \oplus \mathbb{P}$

5. Location and Types of Water Comp Light Stranging O

a. The well will be drilled with a combination of fresh water and brine water based mud systems. The water will be obtained from commercial suppliers in the area and/or hauled to the location by transport trucks over existing and proposed roads as identified above in this surface use plan. Water from the commercial suppliers will be supplied from the Brantley water station located in SE/SW of Sec 12 T26S R28E, Eddy Co.

6. Construction Materials

- a. Construction material that will be used to build the well pad and road will be caliche.
- b. The construction contractor will be solely responsible for securing construction materials required for this operation and paying any royalties that may be required on those materials.
- c. Obtaining caliche: One way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to obtaining caliche. Amount of caliche will vary for each pad. The procedure below has been approved by BLM personnel:
 - i. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
 - ii. An approximate 160' X 160' area is used within the proposed well site to remove caliche.
 - iii. Subsoil is removed and stockpiled within the surveyed well pad.
 - iv. When caliche is found, material will be stock piled within the pad site to build the location and road.
 - v. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
 - vi. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced.
 - vii. Neither caliche, nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat.

In the event that no caliche is found onsite, caliche will be hauled in from a BLM, state, or private mineral pit. A BLM, mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or land.

Caliche for this well pad will be hauled from a State pit in Sec. 18 T23S T27E.

Construction will consist of using the following equipment: Dozer, grader/blade, backhoe, roller, water trucks & dump trucks. Dozer will level the location stockpiling topsoil on the specified edge of the location. Dump trucks will haul material to location. Dozer & Blade will spread material evenly across location. Location will be leveled & rolled with blade & roller. Backhoe will be used to install the 8' x 10' cellar. Average timeline for the construction of locations will be 10-14 days after APD approval. Straw wattles will be installed along the West and South edges of location to prevent erosion.

7. Methods of Handling Waste

a. The well will be drilled utilizing a closed loop system. Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.) and taken to an NMOCD approved disposal facility listed below.

b. Drilling fluids and produced oil and water from the well during completion operations will be stored safely in closed containers (20 yard roll off bins) and disposed of properly in an NMOCD approved disposal facility listed below.

c. Garbage and trash produced during drilling and completion operations will be collected in trash containers (enclosed trash trailers) and disposed of properly at a state approved site. All trash on and around the well site will be collected for disposal.

d. All human waste and grey water from drilling and completion operations will be properly contained in a 2,000 gallon plastic container and disposed of properly at the City of Carlsbad Water Treatment facility.

e. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at the said facilities. NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

8. Ancillary Facilities

a. No ancillary facilities will be needed for this proposed project.

9. Well Site Layout

- a. The proposed drilling pad to be built was staked and surveyed by a professional surveyor. The attached survey plat of the well site depicts the drilling pad layout as staked.
- b. A title of a well site diagram is **Exhibit 5**. This diagram depicts the rig layout.
- c. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

10. Plans for Surface Reclamation

Within 90 days of cessation of drilling and completion operations, all equipment not necessary for production operations will be removed. The location will be cleaned of all trash and junk to assure the well site is left as aesthetically pleasing as reasonably possible.

a. Interim Reclamation (well pad)

- i. Interim reclamation will be performed on the well site after the well is drilled and completed. <u>Exhibit 6</u> depicts the location and dimensions of the planned interim reclamation for the well site.
- ii. The well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production.
- iii. In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- iv. The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.
- v. Topsoil will be evenly respread and aggressively revegetated over the entire disfurbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- vi. Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.
- vii. The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion and invasive/noxious weeds are controlled.

b. Final Reclamation (well pad, buried pipelines, etc.)

i. Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.

- ii. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- iii. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.
- iv. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- v. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.
- vi. All unused equipment and structures including pipelines, electric line poles, tanks, etc. that serviced the well will be removed.
- vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.

11. Surface Ownership

a. The surface ownership of the proposed project is Federal.

12. Other Information

a. No other information is needed at this time.

13. Operator's Representative

a. Through APD approval, drilling, completion and production operations:

Robin Terrell, District Manager

Mewbourne Oil Company, PO Box 5270 Hobbs, NM 88241 575-393-5905

Mewbourne Oil Company

PO Box 5270 Hobbs, NM 88241 (575) 393-5905

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this <u>4</u> day of <u>June</u>, 2015.

Name: Robin Terrell

Signature: B-B Fre KT

Position Title: Hobbs District Manager

Address: PO Box 5270, Hobbs NM 88241

Telephone: 575-393-5905

E-mail: rterrell@mewbourne.com

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Co
LEASE NO.:	NM0540701A
WELL NAME & NO.:	1H-Slider 18 W0NC Fed Com
SURFACE HOLE FOOTAGE:	185'/S & 1870'/W
BOTTOM HOLE FOOTAGE	330'/N & 1980'/W
LOCATION:	Section 18, T. 23 S., R. 27 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

	General Provisions
	Permit Expiration
	Archaeology, Paleontology, and Historical Sites
	Noxious Weeds
\square	Special Requirements
	Communitization Agreement
	Cave/Karst
	Construction
	Notification
	Topsoil
	Closed Loop System
	Federal Mineral Material Pits
	Well Pads
	Roads
[] I	Road Section Diagram
	Drilling
	Cement Requirements
	Drilling Mud Requirements
	H2S Requirements
	Logging Requirements
	Pressure Control Requirements
	Waste Material and Fluids
🖂 I	Production (Post Drilling)
	Well Structures & Facilities
	Electric Lines
	Interim Reclamation
	Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with allapplicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Communitization Agreement:

- 1. The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- 2. If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- 3. In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

• The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).

- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1\frac{1}{2}$ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

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Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

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Ditching

Ditching shall be required on both sides of the road.

Turnouts

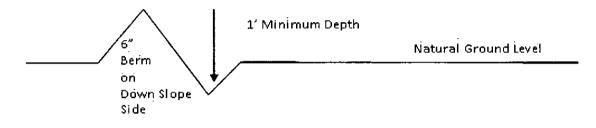
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\underline{400'} + 100' = 200'$ lead-off ditch interval $\underline{4\%}$

Cattleguards

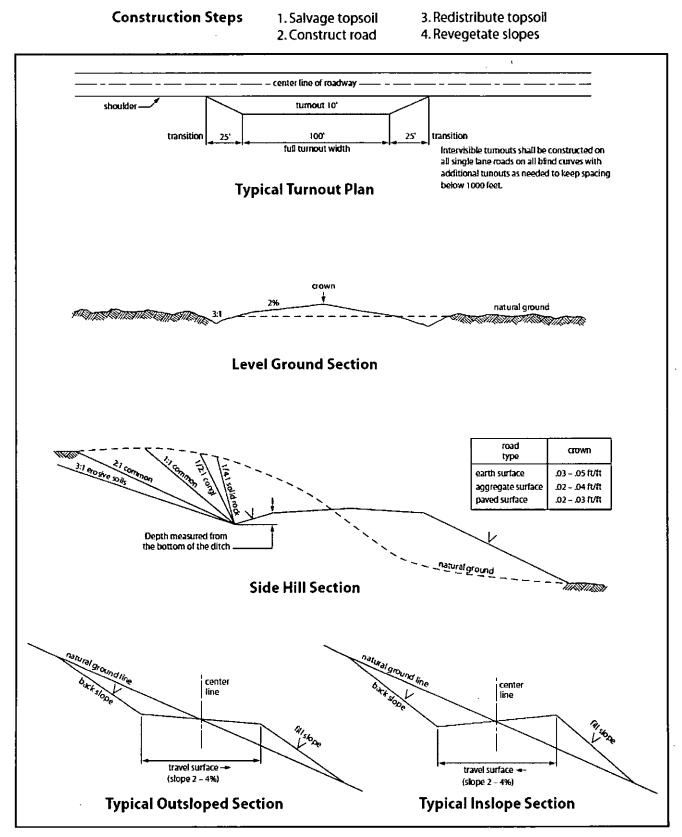
An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.





VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - 🛛 Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.
- 5.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Risks:

Medium Cave/ Karst Possible Water Flows in the Salado and in the Castile. Possible Lost Circulation in the Red Beds, in the Rustler and in the Delaware. Abnormal pressure may be encountered within the 3rd Bone Spring Sandstone and Wolfcamp formation.

- 1. The 13-3/8 inch surface casing shall be set at approximately 525 feet (if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that

string.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst. Excess calculates to 16% Additional cement may be required.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

Formation below the 9 5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 7 inch production casing is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst. Excess calculates to 24% - Additional cement may be required.

Formation below the 7 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the 4-1/2 inch production liner is:

Tie-back is appropriate as proposed. Operator shall provide method of verification. Excess calculates to 25% - Additional cement may be required.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

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- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
- 5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the 3rd Bone Spring if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the 3^{rd} Bone Spring and the Wolfcamp formation, and shall be used until production casing is run and cemented.

Proposed mud weight may not be adequate for drilling through the 3rd Bone Spring and the Wolfcamp formation.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KGR 01262016

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. <u>Electrical lines shall follow existing disturbance such as access roads.</u> The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 1 for Loamy Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed shall be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) monthsprior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre shall be doubled. The seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>

acre
5
0
0
0

De la anne

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed