Form 3160-3 (June 2015)					FORM OMB No Expires: Ja	APPROV o. 1004-0 anuary 31	/ED 137 , 2018	
UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN	.s INTEI [AGE]	RIOR MENT	- -		5. Lease Serial No. NMNM134867			
	DRILL	OR	REENTER		6. If Indian, Allotee or Tribe Name			
1a. Type of work:   Image: Constraint of the second seco	REENT	ER			7. If Unit or CA Agi	reement, 1	Name and No.	
1b. Type of Well:	Other				8 Lease Name and	Well No		
1c. Type of Completion: Hydraulic Fracturing S	Single Z	Zone	Multiple Zone		HOSS 2/11 W1BC	FED CO	мо	
2. Name of Operator MEWBOURNE OIL COMPANY					9. API Well No. 30	3015	48940	
3a. Address PO Box 5270, Hobbs, NM 88240	3b. I (575	Phone N 6) 393-5	o. (include area cod 905	e)	10. Field and Pool, PURPLE SAGE/ V	or Explor VOLFCA	atory MP	
4. Location of Well (Report location clearly and in accordance	with ar	ny State	requirements.*)		11. Sec., T. R. M. or	r Blk. and	Survey or Area	
At surface NENE / 300 FNL / 1240 FEL / LAT 32.1656	6771 /	LONG	-104.0533781		320 2/1203/1202			
At proposed prod. zone SWSE / 330 FSL / 2310 FEL / L 14. Distance in miles and direction from nearest town or post of Z miles	LAT 32	.13833	57 / LONG -104.0		12. County or Parisl	h	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. N	No of ac	res in lease	17. Spacin 480.0	ng Unit dedicated to t	his well		
<ul> <li>18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>60 feet</li> </ul>	19. F 981	Proposed 1 feet /	d Depth 19896 feet	20. BLM FED: NN	/BIA Bond No. in file /11693			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2953 feet	22. <i>I</i> 02/0	2. Approximate date work will start*23. Estimated duration2/03/202060 days						
	24.	Attac	hments		·			
The following, completed in accordance with the requirements of (as applicable)	of Onsh	ore Oil	and Gas Order No. 1	, and the H	Iydraulic Fracturing r	ule per 43	3 CFR 3162.3-3	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Offic</li> </ol>	em Lan e).	ds, the	<ol> <li>Bond to cover th Item 20 above).</li> <li>Operator certific</li> <li>Such other site sp BLM.</li> </ol>	e operatior cation. pecific info	ns unless covered by an rmation and/or plans as	n existing s may be r	bond on file (see	
25. Signature (Electronic Submission)		Name BRAD	(Printed/Typed) LEY BISHOP / Ph	n: (575) 39	93-5905	Date 12/06/2	2019	
Title Regulatory		I				1		
Approved by (Signature) (Electronic Submission)		Name Cody	(Printed/Typed) Layton / Ph: (575)	234-5959		Date 05/03/2	2021	
Title Assistant Field Manager Lands & Minerals		Office Carlst	ad Field Office			1		
Application approval does not warrant or certify that the applica applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt hold	s legal o	or equitable title to th	nose rights	in the subject lease w	hich wou	ld entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1 of the United States any false, fictitious or fraudulent statements	make it or repi	a crime resentati	for any person know	wingly and within its	willfully to make to a jurisdiction.	any depar	tment or agency	



\*(Instructions on page 2)

.

(Continued on page 2)

1625 N. French Dr., Hobbs, NM 88240

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

Phone: (575) 393-6161 Fax: (575) 393-0720

1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170

District I

District II

District III

Form C-102

District Office

Revised August 1, 2011

Submit one copy to appropriate

AMENDED REPORT District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT 1 API Number <sup>2</sup>Pool Code <sup>3</sup> Pool Name 30 3015 48940 98220 PURPLE SAGE WOLFCAMP GAS 6 Well Number <sup>4</sup>Property Code 5 Property Name 331520 HOSS 2/11 W1BO FED COM 2H7 OGRID NO. 8 Operator Name 9Elevation MEWBOURNE OIL COMPANY 2953 14744 <sup>10</sup> Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet From the East/West line County 1 2 25S 28E 300 NORTH 1240 EAST EDDY <sup>11</sup> Bottom Hole Location If Different From Surface North/South line UL or lot no. Section Township Range Lot Idn Feet from the Feet from the East/West line County 25S330 SOUTH 2310 EAST EDDY 0 11 28E 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 640

State of New Mexico

OIL CONSERVATION DIVISION

Santa Fe, NM 87505

1220 South St. Francis Dr.

Energy, Minerals & Natural Resources Department

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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	E	Sta nergy, Minerals	ate of New Me and Natural Res	xico sources Departme	nt	Subn Via F	nit Electronically E-permitting
		Oil C 1220 Sa	onservation D South St. Fran nta Fe, NM 87	ivision cis Dr. 505			
	N	ATURAL G	AS MANA	GEMENT PI	LAN		
fhis Natural Gas Manag	ement Plan m	ust be submitted v	with each Applica	tion for Permit to I	Drill (APD) for a	new or	recompleted wel
		Section	n 1 – Plan D Effective May 25	escription 2021			
. Operator: Mew	/bourne (	Dil Co.	OGRID:	14744	Date:	8/1	3/21
f Other, please describe: II. Well(s): Provide the e recompleted from a si	following in ngle well pad	formation for each or connected to a	new or recomple central delivery p	eted well or set of v point.	vells proposed to	be dri	lled or proposed
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	P	Anticipated roduced Water BBL/D
loss 2/11 W1BO Fed Com 2H		N 2 25S 28E	300' FNL x 1240'	= <b>-</b> ∟ 1500	2500		3500
V. Central Delivery Po V. Anticipated Schedul proposed to be recomple	oint Name:	Hoss 2/ e following inform gle well pad or co	11 W1BO Fed Co ation for each new nnected to a cent	m 2H w or recompleted w ral delivery point.	[See rell or set of well	19.15.2 s propo	7.9(D)(1) NMAC
Well Name	API	Spud Date	TD Reached Date	Completion Commencement	Date Initial Date	Flow Date	First Production Date
loss 2/11 W1BO Fed Com 2H		10/13/21	11/13/21	12/13/21	12/28	/21	12/28/21
	ent: 🕅 Attac	h a complete desci	ription of how Op	erator will size sep	aration equipment	nt to op	timize gas captur

Page 6

#### Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

 $\Box$  Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

#### X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI.** Map.  $\Box$  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII.** Line Capacity. The natural gas gathering system  $\Box$  will  $\Box$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII.** Line Pressure. Operator  $\Box$  does  $\Box$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator's plan to manage production in response to the increased line pressure.

**XIV.** Confidentiality:  $\Box$  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Page 7

#### Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

S Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 $\Box$  Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following:

Well Shut-In. 
Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

## Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

#### Page 8

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Bradley Bishop								
Printed Name:	BRADLEY BISHOP								
Title:	REGULATORY MANAGER								
E-mail Address:	BBISHOP@MEWBOURNE.COM								
Date:	8/13/21								
Phone:	575-393-5905								
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)									
Approved By:									
Title:									
Approval Date:									
Conditions of Ap	proval:								

#### Mewbourne Oil Company

#### Natural Gas Management Plan – Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8 :
  - A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
  - B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
  - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
  - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
  - E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
  - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

## **FMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

**APD ID:** 10400051826

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 W1BO FED COM

Well Type: CONVENTIONAL GAS WELL

## **Section 1 - Geologic Formations**

Formation	Formation Name	Elevation	True Vertical	Measured	Lithologies	Mineral Resources	Producing
600338	UNKNOWN	2953	28	28	OTHER : Top Soil	NONE	N
600350	TOP SALT	1773	1180	1180	SALT	NONE	N
600342	BOTTOM SALT	538	2415	2415	SALT	NONE	N
600343	LAMAR	328	2625	2625	LIMESTONE	NATURAL GAS, OIL	N
600344	BELL CANYON	303	2650	2650	SANDSTONE	NATURAL GAS, OIL	N
600345	CHERRY CANYON	-592	3545	3545	SANDSTONE	NATURAL GAS, OIL	N
600346	MANZANITA	-717	3670	3670	LIMESTONE	NATURAL GAS, OIL	N
600347	BRUSHY CANYON	-1899	4852	4852	SANDSTONE	NATURAL GAS, OIL	N
600337	BONE SPRING	-3432	6385	6385	LIMESTONE, SHALE	NATURAL GAS, OIL	N
600340	BONE SPRING 1ST	-4382	7335	7335	SANDSTONE	NATURAL GAS, OIL	N
600341	BONE SPRING 2ND	-5172	8125	8125	SANDSTONE	NATURAL GAS, OIL	N
600348	BONE SPRING 3RD	-6222	9175	9175	SANDSTONE	NATURAL GAS, OIL	N
600349	WOLFCAMP	-6602	9555	9555	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Highlighted data reflects the most

recent changes

Show Final Text



Submission Date: 12/06/2019

Well Number: 2H

Well Work Type: Drill

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Well Name: HOSS 2/11 W1BO FED COM

Well Number: 2H

Pressure Rating (PSI): 5M

Rating Depth: 19896

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. A multi-bowl wellhead is being used. See attached schematic.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

#### **Choke Diagram Attachment:**

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_5M\_BOPE\_Choke\_Diagram\_20191204110052.pdf

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Flex\_Line\_Specs\_20191204110052.pdf

Hoss\_2\_11\_W0BO\_Fed\_Com\_1H\_Flex\_Line\_Specs\_API\_16C\_20201110090519.pdf

#### **BOP Diagram Attachment:**

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Multi\_Bowl\_WH\_20191204110107.pdf

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_5M\_BOPE\_Schematic\_20191204110108.pdf

				1.000			- 10 and 10			-												
Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	2953	2503	450	H-40	48	ST&C	3.74	8.4	DRY	14.9 1	DRY	25.0 5
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2550	0	2550	2996	403	2550	J-55	36	LT&C	1.52	2.65	DRY	4.93	DRY	6.14
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	10000	0	9785	2996	-6832	10000	HCP -110	26	LT&C	1.29	2.06	DRY	2.39	DRY	2.86
4	LINER	6.12 5	4.5	NEW	API	N	9330	19896	9258	9831	-6305	-6878	10566	P- 110	13.5	LT&C	1.74	2.02	DRY	2.37	DRY	2.96

#### Section 3 - Casing

#### **Casing Attachments**

Well Name: HOSS 2/11 W1BO FED COM

Well Number: 2H

<u>Page 11 of 40</u>

#### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Csg\_assumptions\_20191204110151.pdf

Casing ID: 2 String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Csg\_assumptions\_20191204110206.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Csg\_assumptions\_20191204110242.pdf$ 

Well Name: HOSS 2/11 W1BO FED COM

Well Number: 2H

<u>Page 1</u>2 of 40

#### **Casing Attachments**

Casing ID: 4 String Type:LINER

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Csg\_assumptions\_20191204110335.pdf

### Section 4 - Cement

-											
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	258	170	2.12	12.5	360	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	-	258	450	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1859	340	2.12	12.5	721	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1859	2550	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3670	2350	2993	60	2.12	12.5	127	25	Class C	Gel, Extender, Salt, LCM
PRODUCTION	Tail		2993	3670	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	3670	3670	7495	340	2.12	12.5	721	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		7495	1000 0	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9330	1989 6	420	2.97	11.2	1247	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Well Name: HOSS 2/11 W1BO FED COM

Well Number: 2H

## Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Lost circulation material Sweeps Mud scavengers in surface hole

Describe the mud monitoring system utilized: Pason/PVT/Visual Monitoring

## Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	SPUD MUD	8.6	8.8							
450	2550	SALT SATURATED	10	10							
2550	9785	WATER-BASED MUD	8.6	9.5							
9785	9831	OIL-BASED MUD	10	12							MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.

Well Name: HOSS 2/11 W1BO FED COM

Well Number: 2H

## Section 6 - Test, Logging, Coring

#### List of production tests including testing procedures, equipment and safety measures:

Will run GR/CNL in deeper offset Hoss 2/11 W1AP Fed Com #2H

#### List of open and cased hole logs run in the well:

COMPENSATED NEUTRON LOG, DIRECTIONAL SURVEY, GAMMA RAY LOG, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG, **Coring operation description for the well:** 

None

### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 6135

Anticipated Surface Pressure: 3973

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_H2S\_Plan\_20191204110550.pdf

**Section 8 - Other Information** 

Proposed horizontal/directional/multi-lateral plan submission:

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Dir\_plot\_20191204110610.pdf

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Dir\_plan\_20191204110610.pdf

Other proposed operations facets description:

#### Other proposed operations facets attachment:

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Add\_Info\_20191204110627.pdf

Hoss\_2\_11\_W1BO\_Fed\_Com\_2H\_Drlg\_Program\_20191204110648.docx

Other Variance attachment:

## **Casing Program**

Hole	Casing	Interval	Csg.	Weight Grade		Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	450'	13.375"	48	H40	STC	3.74	8.40	14.91	25.05
12.25"	0'	2550'	9.625"	36	J55	LTC	1.52	2.65	4.93	6.14
8.75"	0'	10000'	7"	26	P110	LTC	1.29	2.06	2.39	2.86
6.125"	9330'	19896'	4.5"	13.5	P110	LTC	1.74	2.02	2.37	2.96
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	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?	
Is wall located within Capitan Boof?	N
If yes, does production easing compart tie back a minimum of 50' above the Poof?	1
Is well within the designated 4 string boundary	
is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Ν
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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?	11
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?	
Is well located in critical Cave/Karst?	N
	11

## **Casing Program**

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	450'	13.375"	48	H40	STC	3.74	8.40	14.91	25.05
12.25"	0'	2550'	9.625"	36	J55	LTC	1.52	2.65	4.93	6.14
8.75"	0'	10000'	7"	26	P110	LTC	1.29	2.06	2.39	2.86
6.125"	9330'	19896'	4.5"	13.5	P110	LTC	1.74	2.02	2.37	2.96
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	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?	
Is wall located within Capitan Boof?	N
If yes, does production easing compart tie back a minimum of 50' above the Poof?	1
Is well within the designated 4 string boundary	
is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Ν
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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?	11
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?	
Is well located in critical Cave/Karst?	N
	11

## **Casing Program**

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	450'	13.375"	48	H40	STC	3.74	8.40	14.91	25.05
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6.125"	9330'	19896'	4.5"	13.5	P110	LTC	1.74	2.02	2.37	2.96
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	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?	
Is well leasted within Conitan Doof?	N
Is well located within Capital Reel?	IN
If yes, does production casing cement the 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 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is wall located in high Cave/Karst?	V
Is well located in high Cave/Kalst?	
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?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

## **Casing Program**

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	450'	13.375"	48	H40	STC	3.74	8.40	14.91	25.05
12.25"	0'	2550'	9.625"	36	J55	LTC	1.52	2.65	4.93	6.14
8.75"	0'	10000'	7"	26	P110	LTC	1.29	2.06	2.39	2.86
6.125"	9330'	19896'	4.5"	13.5	P110	LTC	1.74	2.02	2.37	2.96
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	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?	
Is well leasted within Conitan Doof?	N
Is well located within Capital Reel?	IN
If yes, does production casing cement the 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 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is wall located in high Cave/Karst?	V
Is well located in high Cave/Kalst?	
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?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Mewbourne Oil Company
LEASE NO.:	NMNM134867
WELL NAME & NO.:	HOSS 2-11 W1BO FED COM 2H
SURFACE HOLE FOOTAGE:	300'/N & 1240'/E
<b>BOTTOM HOLE FOOTAGE</b>	330'/S & 2310'/E
LOCATION:	Section 2, T.25 S., R.28 E., NMP
COUNTY:	Eddy County, New Mexico

# COA

H2S	© Yes	• No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	C Low	O Medium	High
Cave/Karst Potential	Critical		
Variance	© None	Flex Hose	© Other
Wellhead	Conventional	Multibowl	© Both
Other	4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	🗖 Pilot Hole
Special Requirements	The Water Disposal	COM	🗖 Unit

## A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. 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, provide measured values and formations to the BLM.

## **B.** CASING

## Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 450 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and 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.

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- b. Wait on cement (WOC) time for a primary cement job will be a minimum of  $\underline{\mathbf{8}}$ <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- 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 which shall be set at approximately **2550** feet 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 or potash. Excess cement calculates to 20%, additional cement might be required.
  - In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 7 inch production casing is:

## **Option 1 (Single Stage):**

 Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
 Excess cement calculates to 3%, additional cement might be required.

## **Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
  - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

## **C. PRESSURE CONTROL**

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

## **D. SPECIAL REQUIREMENT (S)**

## **Communitization Agreement**

- 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.
- 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.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

# **GENERAL 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
  - Lea County
     Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. 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.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. 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 are located, this does not include the dog house or stairway area.
- 3. 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.

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## A. CASING

- 1. 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 for all cement blends, 2) until cement has been in place at least <u>24</u> <u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. 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.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

**Approval Date: 05/03/2021** 

## B. PRESSURE CONTROL

- 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 RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.
- 3. 5M or higher 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.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. 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

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hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation 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.

### Approval Date: 05/03/2021

## C. DRILLING MUD

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

## D. 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.

## OTA01282021

**Approval Date: 05/03/2021** 

### Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company

#### 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. <u>Well Control Equipment</u>
  - 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.

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. <u>Visual Warning Systems</u>

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 Office911 or 575-887-7551Ambulance Service911 or 575-885-2111Carlsbad Fire Dept911 or 575-885-2111Loco Hills Volunteer Fire Dept.911 or 575-677-3266Closest Medical Facility - Columbia Medical Center of Carlsbad575-492-5000

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

Operator Name: MEWBOURNE OIL COMPANY Well Name: HOSS 2/11 W1BO FED COM

Well Number: 2H

Waste disposal type: HAUL TO COMMERCIALDisposal location ownership: PRIVATEFACILITYDisposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940 barrels

Waste disposal frequency : One Time Only

Safe containment description: Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

**Disposal location description:** NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

**Reserve Pit** 

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Well Name: HOSS 2/11 W1BO FED COM

Well Number: 2H

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

## **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.)

Cuttings area depth (ft.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

## **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: N Ancillary Facilities attachment:

Comments:

### **Section 9 - Well Site Layout**

Well Site Layout Diagram:

Hoss2\_11W1BOFedCom2H\_wellsitelayout\_20191203100537.pdf

Comments:

## **Section 10 - Plans for Surface Reclamation**

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: HOSS 2/11 AP & BO FED COM Multiple Well Pad Number: 4

**Recontouring attachment:** 

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

## **FMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400051826

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 W1BO FED COM

Well Type: CONVENTIONAL GAS WELL

Well Number: 2H

08/30/2021

Drilling Plan Data Report

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Submission Date: 12/06/2019

# **Section 1 - Geologic Formations**

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
600338	UNKNOWN	2953	28	28	OTHER : Top Soil	NONE	N
600350	TOP SALT	1773	1180	1180	SALT	NONE	N
600342	BOTTOM SALT	538	2415	2415	SALT	NONE	N
600343	LAMAR	328	2625	2625	LIMESTONE	NATURAL GAS, OIL	N
600344	BELL CANYON	303	2650	2650	SANDSTONE	NATURAL GAS, OIL	N
600345	CHERRY CANYON	-592	3545	3545	SANDSTONE	NATURAL GAS, OIL	N
600346	MANZANITA	-717	3670	3670	LIMESTONE	NATURAL GAS, OIL	N
600347	BRUSHY CANYON	-1899	4852	4852	SANDSTONE	NATURAL GAS, OIL	N
600337	BONE SPRING	-3432	6385	6385	LIMESTONE, SHALE	NATURAL GAS, OIL	N
600340	BONE SPRING 1ST	-4382	7335	7335	SANDSTONE	NATURAL GAS, OIL	N
600341	BONE SPRING 2ND	-5172	8125	8125	SANDSTONE	NATURAL GAS, OIL	N
600348	BONE SPRING 3RD	-6222	9175	9175	SANDSTONE	NATURAL GAS, OIL	N
600349	WOLFCAMP	-6602	9555	9555	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

**Section 2 - Blowout Prevention** 

## **FAFMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400051826

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 W1BO FED COM

Well Type: CONVENTIONAL GAS WELL

## **Section 1 - Geologic Formations**

Formation	Formation Name	Elevation	True Vertical	Measured	Lithologies	Mineral Resources	Producing
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Submission Date: 12/06/2019

Well Number: 2H

Well Work Type: Drill

**Section 2 - Blowout Prevention** 

Highlighted data reflects the most

recent changes

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Page 32 of 40



	· · ·			
	ENGINEERING			
Jule 1	& SERVICES			
CATES E & S NOP	TH AMERICA, INC.		PHONE: 361-887-9807	
134 44TH STREET		:	FAX: 361-887-0812	
CORPUS CHRISTI	, TEXAS 78405		EMAIL: <i>Tim.Cantu@gates.com</i>	n
		:	WEB: www.gates.com	
		· · · · · · · · · · · · · · · · · · ·		,
10K C	EMENTING ASSEMBI	LY PRESSURE T	EST CERTIFICATE	
Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015	
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7	<b>∦</b>  · <b> </b>
Invoice No. :	500506	Created By:	JUSTIN CROPPER	3
Product Description:		10K3.548.0CK4.1/1610KFLG	JE/E LE	]
<b>an</b> , <b>a m</b> () - <b>x</b> = -	A 1/16 10% FLC		4 1/15 10K 9 C	n
End Fitting 1 :	4 1/16 10K FLG	Assembly Code	L36554102914D-043015-7	
Working Pressure :	10.000 PSI	Test Pressure :	15.000 PSI	1
		_		
Gates E & S I the Gates Oil	North America, Inc. certifie	s that the following h Specification requirem	ose assembly has been tested to nents and passed the 15 minute	
Gates E & S I the Gates Oil hydrostatic test to 15,000 psi	North America, Inc. certifie field Roughneck Agreement/S t per API Spec 7K/Q1, Fifth E in accordance with this produ-	s that the following h Specification requirem dition, June 2010, Te uct number. Hose bui the working pressure	ose assembly has been tested to nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9	
Gates E & S I the Gates Oil hydrostatic test to 15,000 psi	North America, Inc. certifie field Roughneck Agreement/S t per API Spec 7K/Q1, Fifth E in accordance with this produ- minimum of 2.5 times t	s that the following h Specification requirem dition, June 2010, Te uct number. Hose bu the working pressure	ose assembly has been tested to nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9.	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi	North America, Inc. certifie Ifield Roughneck Agreement/S t per API Spec 7K/Q1, Fifth E in accordance with this produ- minimum of 2.5 times t	s that the following h Specification requirem dition, June 2010, Te uct number. Hose bui the working pressure	ose assembly has been tested to nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9.	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi	North America, Inc. certifie field Roughneck Agreement/S t per API Spec 7K/Q1, Fifth E in accordance with this produ- minimum of 2.5 times t	s that the following h Specification requirem dition, June 2010, Te uct number. Hose but the working pressure Produciton:	ose assembly has been tested to nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION	
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Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date : Signature :	North America, Inc. certifie ifield Roughneck Agreement/S t per API Spec 7K/Q1, Fifth E- in accordance with this produ- minimum of 2.5 times to QUALITY 4/38/2015 MMMM	s that the following h Specification requirem dition, June 2010, Te uct number. Hose but the working pressure Produciton: Date : Signature :	PRODUCTION	
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GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Houston, TX 77086 PHONE: (281) 602 - 4119 FAX: EMAIL: Troy.Schmidt@gates.com WEB: www.gates.com

# **10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE**

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10
Invoice No.:	511956	Created By:	Moosa Naqvi
	10KF3.035.0CK41/1610KFLGFXDxFLT_L/E		
Product Description:	10KF.	3.035.0CK41/1610KFLGFXDxFLT	L/E
Product Description:	10KF	3.035.0CK41/1610KFLGFXDxFLT	L/E
Product Description:	10KF 4 1/16 in. Fixed Flange	End Fitting 2:	1/E 4 1/16 in. Float Flange
Product Description:	10KF 4 1/16 in. Fixed Flange 68503010-9721632	End Fitting 2: Assembly Code:	4 1/16 in. Float Flange L40695052218H-082018-10

Gates Engineering & Services North America certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements.

Quality:	QUALITY	Production:	DRODUCTION
Date :	8/20/2018	Date :	8/20/2018
Signature :	1 100	Signature :	THE Y
	VISSIE VYM	/	Form PTC - 01 Rev.0 2
	J.		alle C





# 13-5/8" MN-DS Wellhead System

10







District I 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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

Page	39	of	40

COMMENTS

Action 46395

COMMENTS		
Operator:	OGRID:	
MEWBOURNE OIL CO	14744	
P.O. Box 5270	Action Number:	
Hobbs, NM 88241	46395	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

#### COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 9/8/2021	9/8/2021
Rpiolation d		510/2021

District I 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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	46395
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created	Condition	Condition
By		Date
kpickford	Notify OCD 24 hours prior to casing & cement	9/8/2021
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/8/2021
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	9/8/2021
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/8/2021
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/8/2021

CONDITIONS

Action 46395