Form 3160-3 (June 2015)					APPRC No. 1004	-0137
UNITED STA' DEPARTMENT OF THI BUREAU OF LAND MA	E INTERIOR	-		5. Lease Serial No NMNM0000127A		
APPLICATION FOR PERMIT TO				6. If Indian, Allote	e or Trib	e Name
Ta _{in} Type of work:	REENTER			7. If Unit or CAA	greement	, Name and No.
1b _e Type of Well: Oil Well ✓ Gas Well 1c _e Type of Completion: Hydraulic Fracturing ✓	Other Single Zone	Multiple Zone		8. Lease Name and SALADO DRAW	9 W1DN	
2. Name of Operator MEWBOURNE OIL COMPANY [14744]			-	O ADLWAII No	30-02	25-49190
3a. Address PO Box 5270, Hobbs, NM 88240	3b. Phone N (575) 393-5	o. (include area coa 905	de)	10 Field and Pool. RED HILLS WOL		GAS/WOLFCAN
4. Location of Well (Report location clearly and in accordant At surface NWNW / 320 FNL / 360 FWL / LAT 32.0 At proposed prod. zone SWSW / 100 FSL / 330 FWL	644067 / LONG	-103.5846125	84703	11 Sec., T. R. M. o SEC 9/T26S/R33		nd Survey or Area
14. Distance in miles and direction from nearest town or post 30 miles		-	-	12 County or Paris	sh	13. State
15. Distance from proposed* location to nearest property or lease line, ft, (Also to nearest drig. unit line, if any)	16. No of ac	res in lease	17. Spaci 160.0	ng Unit dedicated to	this well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, it.	19. Proposed 12538 feet	I Depth ' 17445 feet	20. BLM/ FED: NM	BIA Bond No. in file 11693	:	
21, Elevations (Show whether DF, KDB, RT, GL, etc.) 3325 feet	22. Approxim 01/19/2021	nate date work will	start*	23. Estimated dura 60 days	tion	
	24. Attacl	nments				
The following, completed in accordance with the requirement (as applicable)	s of Onshore Oil	and Gas Order No.	1, and the F	lydraulic Fracturing	rule per	43 CFR 3162 ₋ 3-3
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the Item 20 above).	ne operation	s unless covered by a	ın existin	g bond on file (see
 A Surface Use Plan (if the location is on National Forest Sy SUPO must be filed with the appropriate Forest Service Of 		Operator certific Such other site s BLM		mation and/or plans a	s may be	requested by the
25. Signature (Electronic Submission)		(Printed Typed) LEY BISHOP / Pl	h: (575) 39	3-5905	Date 11/19/	/2020
Title Regulatory					1	
Approved by (Signature) (Electronic Submission)		(Printed/Typed) Ballard / Ph: (575	5) 234-223	5	Date 07/01/	/2021
Title Natural Resource Specialist	Office	ad Field Office	7,201220		10.10	
Application approval does not warrant or certify that the appli applicant to conduct operations thereon. Conditions of approval, if any, are attached.			hose rights	in the subject lease v	which wo	uld entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 of the United States any false, fictitious or fraudulent statemen		- '			any depa	irtment or agency
NGMP Rec 07/02/2021						
		H CONDIT	IONS	6 07/15	(Z)	1
NSL	OVED WIT	H CONDIT		REQUI	-	
(Continued on page 2)	Ullin	07/01/2021		*(Ir	structi	ons on page 2)
App	iovai Date:	07/01/2021				

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 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) 476-3460 Fax: (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

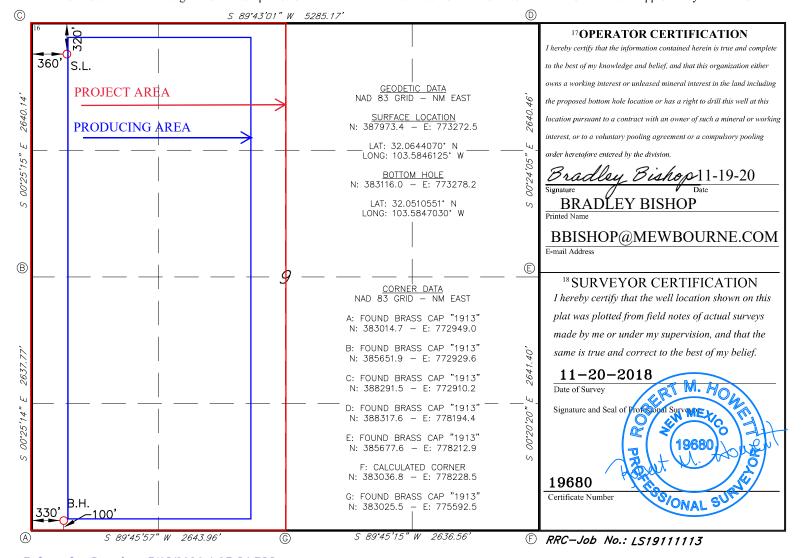
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		² Pool Code	³ Pool Name	
30-025-49190)	83600	AMP GAS	
⁴ Property Code		5 Pro	perty Name	6 Well Number
316523		SALADO DRAW	9 W1DM FED COM	2H
7 OGRID NO.		8 Op	erator Name	⁹ Elevation
14744		MEWBOURNE	E OIL COMPANY	3326'

¹⁰ Surface Location

					Surrace	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
D	9	26S	33E		320	NORTH	360	WEST	LEA
			11]	Bottom H	lole Location	If Different From	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	9	26S	33E		100	SOUTH	330	WEST	LEA
12 Dedicated Acres	s 13 Joint	or Infill 14	Consolidation	Code 15 (Order No.				
320									

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.



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.												
			1 – Plan D ffective May 25.									
I. Operator:Mev	wbourne (Oil Co.	OGRID:	14744		Date: _	6/2	8/21				
II. Type: X Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.												
If Other, please describe	e:											
III. Well(s): Provide the be recompleted from a s					wells pr	roposed to	be dri	lled or proposed to				
Well Name API ULSTR Footages Anticipated Anticipated Gas MCF/D Produced Water BBL/D												
alado Draw 9 W1DM Fed Com #2+30-025-49190 D 9 26S 33E 320' FNL x 360' FW. 1000 2000 2000												
					L							
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following informa	tion for each nev	v or recompleted w	rell or so			7.9(D)(1) NMAC] sed to be drilled or				
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date				
Salado Draw 9 W1 DM Fed Com #2h	30-025-49	1908/28/21	9/28/21	10/28/21		11/13/2	21	11/13/21				
VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.												

Section 2 — Enhanced Plan EFFECTIVE APRIL 1, 2022												
Beginning April 1, reporting area must	2022, an operator the complete this section	nat is not in compliance	with its statewide natural g	as capt	ture requirement for the applicable							
☐ Operator certifie capture requirement	es that it is not requires that it is not require to the applicable re	red to complete this sec eporting area.	tion because Operator is in	compli	ance with its statewide natural gas							
IX. Anticipated Na	IX. Anticipated Natural Gas Production:											
Well API Anticipated Average Anticipated Volume of Natural Natural Gas Rate MCF/D Gas for the First Year MCF												
X. Natural Gas Ga	X. Natural Gas Gathering System (NGGS):											
Operator	Operator System ULSTR of Tie-in Anticipated Gathering Available Maximum Daily Capacity Start Date of System Segment Tie-in											
production operation the segment or portion the segment or portion. XII. Line Capacity production volume. XIII. Line Pressur natural gas gatherin. Attach Operator. XIV. Confidential Section 2 as provide.	XI. Map. 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 will 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 does 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: 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.											

Section 3 - Certifications Effective May 25, 2021

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

🖾 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

□ 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.

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:	6/28/21
Phone:	575-393-5905
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of A	pproval:

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.



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

Drilling Plan Data Report 07/02/2021

APD ID: 10400065476

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 11/19/2020

Well Number: 2H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1166451	UNKNOWN	3325	28	28	OTHER : Top soil	NONE	N
1166462	RUSTLER	2480	845	845	ANHYDRITE, DOLOMITE	USEABLE WATER	N
1166463	TOP SALT	2109	1216	1216	SALT	NONE	N
1166452	BOTTOM SALT	-1355	4680	4680	SALT	NONE	N
1166459	LAMAR	-1585	4910	4910	LIMESTONE	NATURAL GAS, OIL	N
1166455	BELL CANYON	-1615	4940	4940	SANDSTONE	NATURAL GAS, OIL	N
1166456	CHERRY CANYON	-2715	6040	6040	SANDSTONE	NATURAL GAS, OIL	N
1166457	MANZANITA	-2864	6189	6189	LIMESTONE	NATURAL GAS, OIL	N
1166450	BONE SPRING	-5635	8960	8960	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1166453	BONE SPRING 1ST	-6640	9965	9965	SANDSTONE	NATURAL GAS, OIL	N
1166454	BONE SPRING 2ND	-7195	10520	10520	SANDSTONE	NATURAL GAS, OIL	N
1166461	BONE SPRING 3RD	-8280	11605	11605	SANDSTONE	NATURAL GAS, OIL	N
1166458	WOLFCAMP	-8640	11965	11965	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Well Name: SALADO DRAW 9 W1DM FED COM Well Number: 2H

Pressure Rating (PSI): 10M Rating Depth: 17445

Equipment: Annular, Pipe Rams, Blind Rams

Requesting Variance? YES

Variance request: Request variance for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead will be 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. See attached schematics.

Choke Diagram Attachment:

Salado_Draw_9_W1DM_Fed_Com_2H_10M_BOPE_Choke_Diagram_20201119140116.pdf
Salado_Draw_9_W1DM_Fed_Com_2H_Flex_Line_Specs_20201119140117.pdf
Salado_Draw_9_W1DM_Fed_Com_2H_Flex_Line_Specs_API_16C_20201119140117.pdf

BOP Diagram Attachment:

Salado_Draw_9_W1DM_Fed_Com_2H_10M_Annular_BOP_Variance_20201119140129.doc
Salado_Draw_9_W1DM_Fed_Com_2H_10M_BOPE_Schematic_w_5M_Annular_20201119140130.pdf
Salado_Draw_9_W1DM_Fed_Com_2H_10M_Multi_Bowl_WH_Running_Proc_20201119140133.pdf

Section 3 - Casing

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	950	0	950	3325	2375	950	H-40	48	ST&C	1.77	3.98	DRY	7.06	DRY	11.8 6
2		12.2 5	9.625	NEW	API	N	0	4850	0	4850	3326	-1525	4850	L-80	40	LT&C	1.23	2.28	DRY	3.75	DRY	4.72
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	12500	0	12415	3326	-9090	12500	HCP -110	29	LT&C	1.5	1.83	DRY	2.2	DRY	2.56
4	LINER	6.12 5	4.5	NEW	API	N	11950	17445	11945	12538	-8620	-9213		P- 110	13.5	LT&C	1.37	1.59	DRY	4.56	DRY	5.69

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY Well Name: SALADO DRAW 9 W1DM FED COM Well Number: 2H **Casing Attachments** Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Salado_Draw_9_W1DM_Fed_Com_2H_Csg_assumptions_20201119140241.pdf Casing ID: 2 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Salado_Draw_9_W1DM_Fed_Com_2H_Csg_assumptions_20201119140307.pdf Casing ID: 3 String Type: PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Salado_Draw_9_W1DM_Fed_Com_2H_Csg_assumptions_20201119140340.pdf

Well Name: SALADO DRAW 9 W1DM FED COM Well Number: 2H

Casing Attachments

Casing ID: 4 String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Salado_Draw_9_W1DM_Fed_Com_2H_Csg_assumptions_20201119140414.pdf$

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	758	500	2.12	12.5	1060	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		758	950	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	4158	760	2.12	12.5	1611	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4158	4850	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	1	4650	9988	480	2.12	12.5	1018	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		9988	1250 0	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		1195 0	1744 5	220	2.97	11.2	653	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Well Name: SALADO DRAW 9 W1DM 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 (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	950	SPUD MUD	8.6	8.8		7					
950	4850	SALT SATURATED	10	10	1						
4850	1241 5	WATER-BASED MUD	8.6	9.7							
1241 5	1253 8	OIL-BASED MUD	10	13							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (11950') to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report submitted to the BLM.

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

Page 5 of 6

Well Name: SALADO DRAW 9 W1DM FED COM Well Number: 2H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8476 Anticipated Surface Pressure: 5717

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:

Salado Draw 9 W1DM Fed Com 2H H2S Plan 20201119140802.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Salado_Draw_9_W1DM_Fed_Com_2H_Dir_plan_20201119140820.pdf Salado_Draw_9_W1DM_Fed_Com_2H_Dir_plot_20201119140820.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Salado_Draw_9_W1DM_Fed_Com_2H_Add_Info_20201119140832.pdf

Other Variance attachment:

SL: 320' FNL & 360' FWL BHL: 100' FSL & 330' FWL

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'	950'	13.375"	48	H40	STC	1.77	3.98	7.06	11.86
12.25"	0'	4850'	9.625"	40	L80	LTC	1.23	2.28	3.75	4.72
8.75"	0'	12500'	7"	29	HCP110	LTC	1.50	1.83	2.20	2.56
6.125"	11950'	17445'	4.5"	13.5	P110	LTC	1.37	1.59	4.56	5.69
				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 located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	11
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?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

SL: 320' FNL & 360' FWL BHL: 100' FSL & 330' FWL

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'	950'	13.375"	48	H40	STC	1.77	3.98	7.06	11.86
12.25"	0'	4850'	9.625"	40	L80	LTC	1.23	2.28	3.75	4.72
8.75"	0'	12500'	7"	29	HCP110	LTC	1.50	1.83	2.20	2.56
6.125"	11950'	17445'	4.5"	13.5	P110	LTC	1.37	1.59	4.56	5.69
				BLM Minimum 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 Coniton Deef?	N
Is well located within Capitan Reef?	IN
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?	1
Is 2 nd string set 100' to 600' below the base of salt?	
·	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(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?	

SL: 320' FNL & 360' FWL BHL: 100' FSL & 330' FWL

Hole	Casing Interval Csg.		Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	950'	13.375"	48	H40	STC	1.77	3.98	7.06	11.86
12.25"	0'	4850'	9.625"	40	L80	LTC	1.23	2.28	3.75	4.72
8.75"	0'	12500'	7"	29	HCP110	LTC	1.50	1.83	2.20	2.56
6.125"	11950'	17445'	4.5"	13.5	P110	LTC	1.37	1.59	4.56	5.69
				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 located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	11
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?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

SL: 320' FNL & 360' FWL BHL: 100' FSL & 330' FWL

Hole	Casing Interval Csg.		Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	950'	13.375"	48	H40	STC	1.77	3.98	7.06	11.86
12.25"	0'	4850'	9.625"	40	L80	LTC	1.23	2.28	3.75	4.72
8.75"	0'	12500'	7"	29	HCP110	LTC	1.50	1.83	2.20	2.56
6.125"	11950'	17445'	4.5"	13.5	P110	LTC	1.37	1.59	4.56	5.69
				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 located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	11
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?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company

Lea County, New Mexico NAD 83 Salado Draw 9 W1DM Fed Com #2H

Sec 9, T26S, R33E

SHL: 320' FNL & 360' FWL BHL: 100' FSL & 330' FWL

Plan: Design #1

Standard Planning Report

19 November, 2020

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83

Site: Salado Draw 9 W1DM Fed Com #2H

 Well:
 Sec 9, T26S, R33E

 Wellbore:
 BHL: 100' FSL & 330' FWL

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Salado Draw 9 W1DM Fed Com #2H WELL @ 3353.0usft (Original Well Elev) WELL @ 3353.0usft (Original Well Elev)

Grid

Minimum Curvature

Project Lea County, New Mexico NAD 83

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Salado Draw 9 W1DM Fed Com #2H

Northing: 387,973.00 usft Site Position: Latitude: 32.0644060 From: Мар Easting: 773,273.00 usft Longitude: -103.5846110 **Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.40

Well Sec 9, T26S, R33E

 Well Position
 +N/-S
 0.0 usft
 Northing:
 387,973.00 usft
 Latitude:
 32.0644060

 +E/-W
 0.0 usft
 Easting:
 773,273.00 usft
 Longitude:
 -103.5846110

Position Uncertainty0.0 usftWellhead Elevation:3,353.0 usftGround Level:3,325.0 usft

BHL: 100' FSL & 330' FWL Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 12/31/2014 7.14 59.95 48,165

Design #1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 179.94

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,059.7	1.65	353.94	1,059.7	1.6	-0.2	1.50	1.50	0.00	353.94	
11,839.8	1.65	353.94	11,835.3	309.4	-32.8	0.00	0.00	0.00	0.00	
11,949.5	0.00	0.00	11,945.0	311.0	-33.0	1.50	-1.50	0.00	180.00	KOP: 10' FNL & 330' I
12,847.1	89.75	179.58	12,518.0	-259.5	-28.8	10.00	10.00	0.00	179.58	
17,444.7	89.75	179.58	12,538.0	-4,857.0	5.0	0.00	0.00	0.00	0.00	BHL: 100' FSL & 330'

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Salado Draw 9 W1DM Fed Com #2H

 Well:
 Sec 9, T26S, R33E

 Wellbore:
 BHL: 100' FSL & 330' FWL

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Salado Draw 9 W1DM Fed Com #2H WELL @ 3353.0usft (Original Well Elev) WELL @ 3353.0usft (Original Well Elev)

Grid

nned Surv	vey									
Моз	sured			Vertical			Vertical	Dogleg	Build	Turn
	epth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	sft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHI	L: 320' FN	IL & 360' FWL								
	100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
	200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
	300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
	400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
	500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
	600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.008	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
	950.0	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,000.0	0.75	353.94	1,000.0	0.3	0.0	-0.3	1.50	1.50	0.00
	1,059.7	1.65	353.94	1,059.7	1.6	-0.2	-1.6	1.50	1.50	0.00
	1,100.0	1.65	353.94	1,100.0	2.7	-0.3	-2.7	0.00	0.00	0.00
	1,200.0	1.65	353.94	1,199.9	5.6	-0.6	-5.6	0.00	0.00	0.00
	1,300.0	1.65	353.94	1,299.9	8.4	-0.9	-8.4	0.00	0.00	0.00
	1,400.0	1.65	353.94	1,399.8	11.3	-1.2	-11.3	0.00	0.00	0.00
	1,500.0	1.65	353.94	1,499.8	14.1	-1.5	-14.1	0.00	0.00	0.00
	1,600.0	1.65	353.94	1,599.8	17.0	-1.8	-17.0	0.00	0.00	0.00
	1,700.0	1.65	353.94	1,699.7	19.9	-2.1	-19.9	0.00	0.00	0.00
	1,800.0	1.65	353.94	1,799.7	22.7	-2.4	-22.7	0.00	0.00	0.00
	1,900.0	1.65	353.94	1,899.6	25.6	-2.7	-25.6	0.00	0.00	0.00
	2,000.0	1.65	353.94	1,999.6	28.4	-3.0	-28.4	0.00	0.00	0.00
	2,100.0	1.65	353.94	2,099.6	31.3	-3.3	-31.3	0.00	0.00	0.00
	2,200.0	1.65	353.94	2,199.5	34.1	-3.6	-34.1	0.00	0.00	0.00
	2,300.0	1.65	353.94	2,299.5	37.0	-3.9	-37.0	0.00	0.00	0.00
	2,400.0	1.65	353.94	2,399.4	39.8	-4.2	-39.8	0.00	0.00	0.00
	2,500.0	1.65	353.94	2,499.4	42.7	-4.5	-42.7	0.00	0.00	0.00
	2,600.0	1.65	353.94	2,599.3	45.6	-4.8	-45.6	0.00	0.00	0.00
	2,700.0	1.65	353.94	2,699.3	48.4	-5.1	-48.4	0.00	0.00	0.00
	2,800.0	1.65	353.94	2,799.3	51.3	-5.4	-51.3	0.00	0.00	0.00
	2,900.0	1.65	353.94	2,899.2	54.1	-5.7	-54.1	0.00	0.00	0.00
	3,000.0	1.65	353.94	2,999.2	57.0	-6.0	-57.0	0.00	0.00	0.00
	3,100.0	1.65	353.94	3,099.1	59.8	-6.3	-59.8	0.00	0.00	0.00
	3,200.0	1.65	353.94	3,199.1	62.7	-6.7	-62.7	0.00	0.00	0.00
	3,300.0	1.65	353.94	3,299.1	65.5	-7.0	-65.6	0.00	0.00	0.00
	3,400.0	1.65	353.94	3,399.0	68.4	-7.3	-68.4	0.00	0.00	0.00
	3,500.0	1.65	353.94	3,499.0	71.3	-7.6	-71.3	0.00	0.00	0.00
	3,600.0	1.65	353.94	3,598.9	74.1	-7.9	-74.1	0.00	0.00	0.00
	3,700.0	1.65	353.94	3,698.9	77.0	-8.2	-77.0	0.00	0.00	0.00
	3,800.0	1.65	353.94	3,798.9	79.8	-8.5	-79.8	0.00	0.00	0.00
	3,900.0	1.65	353.94	3,898.8	82.7	-8.8	-82.7	0.00	0.00	0.00
	4,000.0	1.65	353.94	3,998.8	85.5	-9.1	-85.5	0.00	0.00	0.00
	4,100.0	1.65	353.94	4,098.7	88.4	-9.4	-88.4	0.00	0.00	0.00
	4,200.0	1.65	353.94	4,198.7	91.2	-9.7	-91.3	0.00	0.00	0.00
	4,300.0	1.65	353.94	4,298.6	94.1	-10.0	-94.1	0.00	0.00	0.00
	4,400.0	1.65	353.94	4,398.6	97.0	-10.3	-97.0	0.00	0.00	0.00
	4,500.0	1.65	353.94	4,498.6	99.8	-10.6	-99.8	0.00	0.00	0.00
	4,600.0	1.65	353.94	4,598.5	102.7	-10.9	-102.7	0.00	0.00	0.00
	4,700.0	1.65	353.94	4,698.5	105.5	-11.2	-105.5	0.00	0.00	0.00
	4,800.0	1.65	353.94	4,798.4	108.4	-11.5	-108.4	0.00	0.00	0.00
	4,900.0	1.65	353.94	4,898.4	111.2	-11.8	-111.3	0.00	0.00	0.00
	5,000.0	1.65	353.94	4,998.4	114.1	-12.1	-114.1	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83

Site: Salado Draw 9 W1DM Fed Com #2H

 Well:
 Sec 9, T26S, R33E

 Wellbore:
 BHL: 100' FSL & 330' FWL

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Salado Draw 9 W1DM Fed Com #2H WELL @ 3353.0usft (Original Well Elev) WELL @ 3353.0usft (Original Well Elev)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0 5,200.0	1.65 1.65	353.94 353.94	5,098.3 5,198.3	117.0 119.8	-12.4 -12.7	-117.0 -119.8	0.00 0.00	0.00 0.00	0.00 0.00
5,300.0	1.65	353.94	5,298.2	122.7	-13.0	-122.7	0.00	0.00	0.00
5,400.0	1.65	353.94	5,398.2	125.5	-13.3	-125.5	0.00	0.00	0.00
5,500.0	1.65	353.94	5,498.2	128.4	-13.6	-128.4	0.00	0.00	0.00
5,600.0	1.65	353.94	5,598.1	131.2	-13.9	-131.2	0.00	0.00	0.00
5,700.0	1.65	353.94	5,698.1	134.1	-14.2	-134.1	0.00	0.00	0.00
5,800.0	1.65	353.94	5,798.0	136.9	-14.5	-137.0	0.00	0.00	0.00
5,900.0	1.65	353.94	5,898.0	139.8	-14.8	-139.8	0.00	0.00	0.00
6,000.0	1.65	353.94	5,997.9	142.7	-15.1	-142.7	0.00	0.00	0.00
6,100.0	1.65	353.94	6,097.9	145.5	-15.4	-145.5	0.00	0.00	0.00
6,200.0	1.65	353.94	6,197.9	148.4	-15.7	-148.4	0.00	0.00	0.00
6,300.0	1.65	353.94	6,297.8	151.2	-16.0	-151.2	0.00	0.00	0.00
6,400.0	1.65	353.94	6,397.8	154.1	-16.3	-154.1	0.00	0.00	0.00
6,500.0	1.65	353.94	6,497.7	156.9	-16.7	-157.0	0.00	0.00	0.00
6,600.0	1.65	353.94	6,597.7	159.8	-17.0	-159.8	0.00	0.00	0.00
6,700.0	1.65	353.94	6,697.7	162.6	-17.3	-162.7	0.00	0.00	0.00
6,800.0	1.65	353.94	6,797.6	165.5	-17.6	-165.5	0.00	0.00	0.00
6,900.0	1.65	353.94	6,897.6	168.4	-17.9	-168.4	0.00	0.00	0.00
7,000.0	1.65	353.94	6,997.5	171.2	-18.2	-171.2	0.00	0.00	0.00
7,100.0	1.65	353.94	7,097.5	174.1	-18.5	-174.1	0.00	0.00	0.00
7,200.0	1.65	353.94	7,197.5	176.9	-18.8	-176.9	0.00	0.00	0.00
7,300.0	1.65	353.94	7,297.4	179.8	-19.1	-179.8	0.00	0.00	0.00
7,400.0	1.65	353.94	7,397.4	182.6	-19.4	-182.7	0.00	0.00	0.00
7,500.0	1.65	353.94	7,497.3	185.5	-19.7	-185.5	0.00	0.00	0.00
7,600.0	1.65	353.94	7,597.3	188.4	-20.0	-188.4	0.00	0.00	0.00
7,700.0	1.65	353.94	7,697.2	191.2	-20.3	-191.2	0.00	0.00	0.00
7,800.0	1.65	353.94	7,797.2	194.1	-20.6	-194.1	0.00	0.00	0.00
7,900.0	1.65	353.94	7,897.2	196.9	-20.9	-196.9	0.00	0.00	0.00
8,000.0	1.65	353.94	7,997.1	199.8	-21.2	-199.8	0.00	0.00	0.00
8,100.0	1.65	353.94	8,097.1	202.6	-21.5	-202.7	0.00	0.00	0.00
8,200.0	1.65	353.94	8,197.0	205.5	-21.8	-205.5	0.00	0.00	0.00
8,300.0	1.65	353.94	8,297.0	208.3	-22.1	-208.4	0.00	0.00	0.00
8,400.0	1.65	353.94	8,397.0	211.2	-22.4	-211.2	0.00	0.00	0.00
8,500.0	1.65	353.94	8,496.9	214.1	-22.7	-214.1	0.00	0.00	0.00
8,600.0	1.65	353.94	8,596.9	216.9	-23.0	-216.9	0.00	0.00	0.00
8,700.0	1.65	353.94	8,696.8	219.8	-23.3	-219.8	0.00	0.00	0.00
8,800.0	1.65	353.94	8,796.8	222.6	-23.6	-222.6	0.00	0.00	0.00
8,900.0	1.65	353.94	8,896.8	225.5	-23.9	-225.5	0.00	0.00	0.00
9,000.0	1.65	353.94	8,996.7	228.3	-24.2	-228.4	0.00	0.00	0.00
9,100.0	1.65	353.94	9,096.7	231.2	-24.5	-231.2	0.00	0.00	0.00
9,200.0	1.65	353.94	9,196.6	234.0	-24.8	-234.1	0.00	0.00	0.00
9,300.0	1.65	353.94	9,296.6	236.9	-25.1	-236.9	0.00	0.00	0.00
9,400.0	1.65	353.94	9,396.5	239.8	-25.4	-239.8	0.00	0.00	0.00
9,500.0	1.65	353.94	9,496.5	242.6	-25.7	-242.6	0.00	0.00	0.00
9,600.0	1.65	353.94	9,596.5	245.5	-26.0	-245.5	0.00	0.00	0.00
9,700.0	1.65	353.94	9,696.4	248.3	-26.3	-248.4	0.00	0.00	0.00
9,800.0	1.65	353.94	9,796.4	251.2	-26.7	-251.2	0.00	0.00	0.00
9,900.0	1.65	353.94	9,896.3	254.0	-27.0	-254.1	0.00	0.00	0.00
10,000.0	1.65	353.94	9,996.3	256.9	-27.3	-256.9	0.00	0.00	0.00
10,100.0	1.65	353.94	10,096.3	259.7	-27.6	-259.8	0.00	0.00	0.00
10,200.0	1.65	353.94	10,196.2	262.6	-27.9	-262.6	0.00	0.00	0.00
10,300.0	1.65	353.94	10,296.2	265.5	-28.2	-265.5	0.00	0.00	0.00
10,400.0	1.65	353.94	10,396.1	268.3	-28.5	-268.3	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Salado Draw 9 W1DM Fed Com #2H

 Well:
 Sec 9, T26S, R33E

 Wellbore:
 BHL: 100' FSL & 330' FWL

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Salado Draw 9 W1DM Fed Com #2H WELL @ 3353.0usft (Original Well Elev) WELL @ 3353.0usft (Original Well Elev)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	1.65	353.94	10,496.1	271.2	-28.8	-271.2	0.00	0.00	0.00
10,600.0	1.65	353.94	10,596.0	274.0	-29.1	-274.1	0.00	0.00	0.00
10,700.0	1.65	353.94	10,696.0	276.9	-29.4	-276.9	0.00	0.00	0.00
10,800.0	1.65	353.94	10,796.0	279.7	-29.7	-279.8	0.00	0.00	0.00
10,900.0	1.65	353.94	10,895.9	282.6	-30.0	-282.6	0.00	0.00	0.00
11,000.0 11,100.0	1.65 1.65	353.94 353.94	10,995.9 11,095.8	285.5 288.3	-30.3 -30.6	-285.5 -288.3	0.00 0.00	0.00 0.00	0.00 0.00
11,200.0	1.65	353.94	11,195.8	291.2	-30.9	-200.3 -291.2	0.00	0.00	0.00
	1.65	353.94	11,295.8	294.0	-31.2	-294.1	0.00	0.00	0.00
11,300.0 11,400.0	1.65	353.94 353.94	11,395.7	296.9	-31.2 -31.5	-294 1 -296 9	0.00	0.00	0.00
11,500.0	1.65	353.94	11,495.7	299.7	-31.8	-299.8	0.00	0.00	0.00
11,600.0	1.65	353.94	11,595.6	302.6	-32.1	-302.6	0.00	0.00	0.00
11,700.0	1.65	353.94	11,695.6	305.4	-32.4	-305.5	0.00	0.00	0.00
			11.795.6						
11,800.0	1.65 1.65	353.94 353.94	,	308.3 309.4	-32.7 -32.8	-308.3 -309.5	0.00 0.00	0.00 0.00	0.00 0.00
11,839.8 11,900.0	1.65 0.74	353.94 353.94	11,835.3 11,895.5	309.4 310.7	-32.8 -33.0	-309.5 -310.7	1.50	-1.50	0.00
11,949.5	0.74	0.00	11,945.0	310.7	-33.0 -33.0	-310.7 -311.0	1.50	-1.50 -1.50	0.00
	NL & 330' FWL	0.00	,5 15.5	311.0	55.5	311.3	1.00	1.00	0.00
12,000.0	5.05	179.58	11,995.5	308.8	-33.0	-308.8	10.00	10.00	0.00
12,100.0	15.05	179.58	12,093.8	291.3	-32.9	-291.4	10.00	10.00	0.00
12,100.0	25.05	179.58	12,093.6	257.1	-32.9 -32.6	-291.4 -257.1	10.00	10.00	0.00
12,275.0	32.55	179.58	12,767.3	221.0	-32.3	-221.0	10.00	10.00	0.00
	NL & 330' FWL		,		32.3				3.33
12,300.0	35.05	179.58	12,274.1	207.1	-32.2	-207.1	10.00	10.00	0.00
12,400.0	45.05	179.58	12,350.5	142.8	-31.8	-142.9	10.00	10.00	0.00
				66.3					
12,500.0 12,600.0	55.05 65.05	179.58 179.58	12,414.7 12,464.5	-20.3	-31.2 -30.6	-66.3 20.2	10.00 10.00	10.00 10.00	0.00 0.00
12,700.0	75.05	179.58	12,498.6	-20.3 -114.1	-29.9	114.1	10.00	10.00	0.00
12,800.0	85.05	179.58	12,515.9	-212.5	-29.2	212.5	10.00	10.00	0.00
12,847.1	89.75	179.58	12,518.0	-259.5	-28.8	259.5	10.00	10.00	0.00
	IL & 330' FWL		,						
		170.50	10.510.0	0.40.4	00.4	040.4	2.22	0.00	0.00
12,900.0	89.75	179.58	12,518.2	-312.4	-28.4 27.7	312.4	0.00	0.00	0.00
13,000.0 13,100.0	89.75 89.75	179.58 179.58	12,518.7 12,519.1	-412.4 -512.4	-27.7 -26.9	412.4 512.4	0.00 0.00	0.00 0.00	0.00 0.00
13,100.0	89.75	179.56 179.58	12,519.1	-512.4 -612.4	-26.9 -26.2	612.4	0.00	0.00	0.00
13,300.0	89.75	179.58	12,519.5	-712.4	-25.5	712.4	0.00	0.00	0.00
	89.75		·						0.00
13,400.0 13,500.0	89.75 89.75	179.58 179.58	12,520.4 12,520.8	-812.4 -912.4	-24.7 -24.0	812.4 912.4	0.00 0.00	0.00 0.00	0.00
13,600.0	89.75	179.58	12,520.6	-912.4 -1,012.4	-24.0 -23.3	1,012.4	0.00	0.00	0.00
13,700.0	89.75	179.58	12,521.7	-1,012.4 -1,112.4	-23.5 -22.5	1,012.4	0.00	0.00	0.00
13,800.0	89.75	179.58	12,522.1	-1,212.4	-21.8	1,212.4	0.00	0.00	0.00
13,900.0	89.75	179.58	12,522.6	-1,312.4	-21.1	1,312.4	0.00	0.00	0.00
14,000.0	89.75	179.58	12,522.0	-1,312.4 -1,412.4	-20.3	1,312.4	0.00	0.00	0.00
14,100.0	89.75	179.58	12,523.5	-1,512.4	-19.6	1,512.4	0.00	0.00	0.00
14,200.0	89.75	179.58	12,523.9	-1,612.4	-18.9	1,612.4	0.00	0.00	0.00
14,300.0	89.75	179.58	12,524.3	-1,712.4	-18.1	1,712.4	0.00	0.00	0.00
14,400.0	89.75	179.58	12,524.8	-1,812.4	-17.4	1,812.4	0.00	0.00	0.00
14,500.0	89.75	179.58	12,525.2	-1,912.4	-16.7	1,912.4	0.00	0.00	0.00
14,600.0	89.75	179.58	12,525.6	-2,012.4	-15.9	2,012.4	0.00	0.00	0.00
14,700.0	89.75	179.58	12,526.1	-2,112.4	-15.2	2,112.4	0.00	0.00	0.00
14,800.0	89.75	179.58	12,526.5	-2,212.4	-14.4	2,212.4	0.00	0.00	0.00
14,900.0	89.75	179.58	12,526,9	-2,312.4	-13.7	2,312.3	0.00	0.00	0.00
14,906.6	89.75	179.58	12,520.9	-2,312.4 -2,319.0	-13.7 -13.7	2,312.3	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Salado Draw 9 W1DM Fed Com #2H

Well: Sec 9, T26S, R33E **Wellbore:** BHL: 100' FSL & 330' FWL

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Salado Draw 9 W1DM Fed Com #2H WELL @ 3353.0usft (Original Well Elev) WELL @ 3353.0usft (Original Well Elev)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
PPP2: 2637'	FSL & 330' FWL								
15,000.0	89.75	179.58	12,527.4	-2,412.4	-13.0	2,412.3	0.00	0.00	0.00
15,100.0	89.75	179.58	12,527.8	-2,512.4	-12.2	2,512.3	0.00	0.00	0.00
15,200.0	89.75	179.58	12,528.2	-2,612.4	-11.5	2,612.3	0.00	0.00	0.00
15,300.0	89.75	179.58	12,528.7	-2,712.3	-10.8	2,712.3	0.00	0.00	0.00
15,400.0	89.75	179.58	12,529.1	-2,812.3	-10.0	2,812.3	0.00	0.00	0.00
15,500.0	89.75	179.58	12,529.5	-2,912.3	-9.3	2,912.3	0.00	0.00	0.00
15,600.0	89.75	179.58	12,530.0	-3,012.3	-8.6	3,012.3	0.00	0.00	0.00
15,700.0	89.75	179.58	12,530.4	-3,112.3	-7.8	3,112.3	0.00	0.00	0.00
15,800.0	89.75	179.58	12,530.8	-3,212.3	-7.1	3,212.3	0.00	0.00	0.00
15,900.0	89.75	179.58	12,531.3	-3,312.3	-6.4	3,312.3	0.00	0.00	0.00
16,000.0	89.75	179.58	12,531.7	-3,412.3	-5.6	3,412.3	0.00	0.00	0.00
16,100.0	89.75	179.58	12,532.2	-3,512.3	-4.9	3,512.3	0.00	0.00	0.00
16,200.0	89.75	179.58	12,532.6	-3,612.3	-4.2	3,612.3	0.00	0.00	0.00
16,300.0	89.75	179.58	12,533.0	-3,712.3	-3.4	3,712.3	0.00	0.00	0.00
16,400.0	89.75	179.58	12,533.5	-3,812.3	-2.7	3,812.3	0.00	0.00	0.00
16,500.0	89.75	179.58	12,533.9	-3,912.3	-1.9	3,912.3	0.00	0.00	0.00
16,600.0	89.75	179.58	12,534.3	-4,012.3	-1.2	4,012.3	0.00	0.00	0.00
16,700.0	89.75	179.58	12,534.8	-4,112.3	-0.5	4,112.3	0.00	0.00	0.00
16,800.0	89.75	179.58	12,535.2	-4,212.3	0.3	4,212.3	0.00	0.00	0.00
16,900.0	89.75	179.58	12,535.6	-4,312.3	1.0	4,312.3	0.00	0.00	0.00
17,000.0	89.75	179.58	12,536.1	-4,412.3	1.7	4,412.3	0.00	0.00	0.00
17,100.0	89.75	179.58	12,536.5	-4,512.3	2.5	4,512.3	0.00	0.00	0.00
17,200.0	89.75	179.58	12,536.9	-4,612.3	3.2	4,612.3	0.00	0.00	0.00
17,300.0	89.75	179.58	12,537.4	-4,712.3	3.9	4,712.3	0.00	0.00	0.00
17,400.0	89.75	179.58	12,537.8	-4,812.3	4.7	4,812.3	0.00	0.00	0.00
17,444.7	89.75	179.58	12,538.0	-4,857.0	5.0	4,857.0	0.00	0.00	0.00
BHL: 100' FS	SL & 330' FWL								

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83

 Site:
 Salado Draw 9 W1DM Fed Com #2H

 Well:
 Sec 9, T26S, R33E

Wellbore: BHL: 100' FSL & 330' FWL Design: Design #1

Local Co-ordinate Reference:

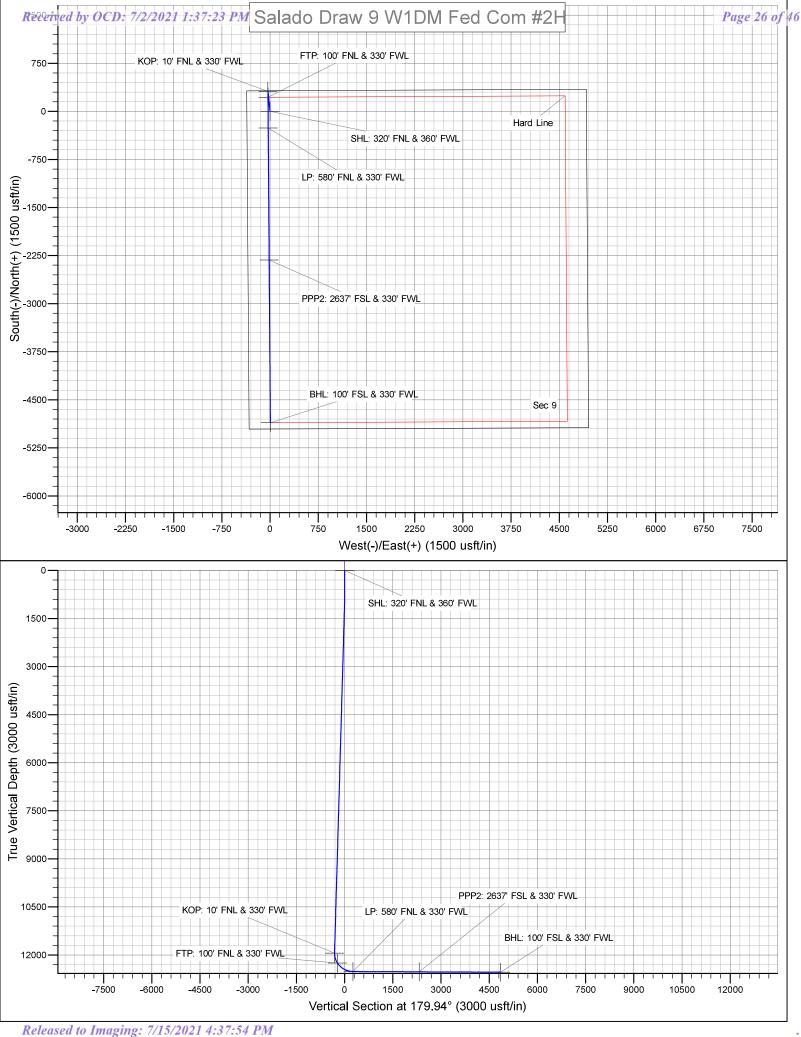
TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Salado Draw 9 W1DM Fed Com #2H WELL @ 3353.0usft (Original Well Elev) WELL @ 3353.0usft (Original Well Elev)

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 320' FNL & 360' FN - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	387,973.00	773,273.00	32.0644060	-103.5846110
KOP: 10' FNL & 330' FW - plan hits target cent - Point	0.00 er	0.00	11,945.0	311.0	-33.0	388,284.00	773,240.00	32.0652614	-103.5847106
FTP: 100' FNL & 330' FV - plan hits target cent - Point	0.00 er	0.00	12,253.3	221.0	-32.3	388,194.00	773,240.66	32.0650140	-103.5847104
LP: 580' FNL & 330' FWl - plan hits target cent - Point	0.00 er	0.00	12,518.0	-259.5	-28.8	387,713.50	773,244.20	32.0636932	-103.5847098
PPP2: 2637' FSL & 330' - plan hits target cent - Point	0.00 er	0.00	12,527.0	-2,319.0	-13.7	385,654.00	773,259 <u>.</u> 34	32,0580319	-103.5847070
BHL: 100' FSL & 330' FV - plan hits target cent - Point	0.00 er	0.00	12,538.0	-4,857.0	5.0	383,116.00	773,278.00	32.0510552	-103.5847036



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Mewbourne Oil Company

LEASE NO.: | NMNM0000127A

WELL NAME & NO.: | SALADO DRAW 9 W1DM FED COM 2H

SURFACE HOLE FOOTAGE: 320'/N & 360'/W **BOTTOM HOLE FOOTAGE** 100'/S & 330'/W

LOCATION: | Section 9, T.26 S., R.33 E., NMP

COUNTY: Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Red Hills formations. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please 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 950 feet (a minimum of 25 feet (Lea 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.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours 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 9-5/8 inch intermediate casing shall be set at approximately 4910 feet. 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 or potash.
 Excess cement calculates to 18%, additional cement might be required.
 - ❖ In Medium Cave/Karst Areas 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:
 - 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.

Option 1:

a. 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.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

- 1. 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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. When the Communitization Agreement number is known, it shall also be on the sign.

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
- 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 2nd 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.

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.
- 2. Wait on cement (WOC) for Potash Areas: 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 24 hours. 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. 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 8 hours. 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.

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 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.

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.

OTA06232021

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.
- 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. Protective Equipment for Essential Personnel

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 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 Cent	er 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

Received by OCD: 7/2/2021 1:37:23 PM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM Well Number: 2H

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.

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 containment 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: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500 pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

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: SALADO DRAW 9 W1DM FED COM Well Number: 2H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.) Cuttings area volume (cu. yd.)

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:

SaladoDraw 9 W1DMFedCom2H wellsitelayout 20201119122602.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None



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

Drilling Plan Data Report

07/02/2021

APD ID: 10400065476

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 11/19/2020

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Well Number: 2H

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing
1166451	UNKNOWN	3325	28	28	OTHER : Top soil	NONE	N
1166462	RUSTLER	2480	845	845	ANHYDRITE, DOLOMITE	USEABLE WATER	N
1166463	TOP SALT	2109	1216	1216	SALT	NONE	N
1166452	BOTTOM SALT	-1355	4680	4680	SALT	NONE	N
1166459	LAMAR	-1585	4910	4910	LIMESTONE	NATURAL GAS, OIL	N
1166455	BELL CANYON	-1615	4940	4940	SANDSTONE	NATURAL GAS, OIL	N
1166456	CHERRY CANYON	-2715	6040	6040	SANDSTONE	NATURAL GAS, OIL	N
1166457	MANZANITA	-2864	6189	6189	LIMESTONE	NATURAL GAS, OIL	N
1166450	BONE SPRING	-5635	8960	8960	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1166453	BONE SPRING 1ST	-6640	9965	9965	SANDSTONE	NATURAL GAS, OIL	N
1166454	BONE SPRING 2ND	-7195	10520	10520	SANDSTONE	NATURAL GAS, OIL	N
1166461	BONE SPRING 3RD	-8280	11605	11605	SANDSTONE	NATURAL GAS, OIL	N
1166458	WOLFCAMP	-8640	11965	11965	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention



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

Drilling Plan Data Report 07/02/2021

APD ID: 10400065476

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 11/19/2020

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1166456	CHERRY CANYON	-2715	6040	6040	SANDSTONE	NATURAL GAS, OIL	N
1166457	MANZANITA	-2864	6189	6189	LIMESTONE	NATURAL GAS, OIL	N
1166450	BONE SPRING	-5635	8960	8960	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1166453	BONE SPRING 1ST	-6640	9965	9965	SANDSTONE	NATURAL GAS, OIL	N
1166454	BONE SPRING 2ND	-7195	10520	10520	SANDSTONE	NATURAL GAS, OIL	N
1166461	BONE SPRING 3RD	-8280	11605	11605	SANDSTONE	NATURAL GAS, OIL	N
1166458	WOLFCAMP	-8640	11965	11965	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Well Name: SALADO DRAW 9 W1DM FED COM Well Number: 2H

Pressure Rating (PSI): 10M Rating Depth: 17445

Equipment: Annular, Pipe Rams, Blind Rams

Requesting Variance? YES

Variance request: Request variance for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead will be 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. See attached schematics.

Choke Diagram Attachment:

Salado_Draw_9_W1DM_Fed_Com_2H_10M_BOPE_Choke_Diagram_20201119140116.pdf
Salado_Draw_9_W1DM_Fed_Com_2H_Flex_Line_Specs_20201119140117.pdf
Salado_Draw_9_W1DM_Fed_Com_2H_Flex_Line_Specs_API_16C_20201119140117.pdf

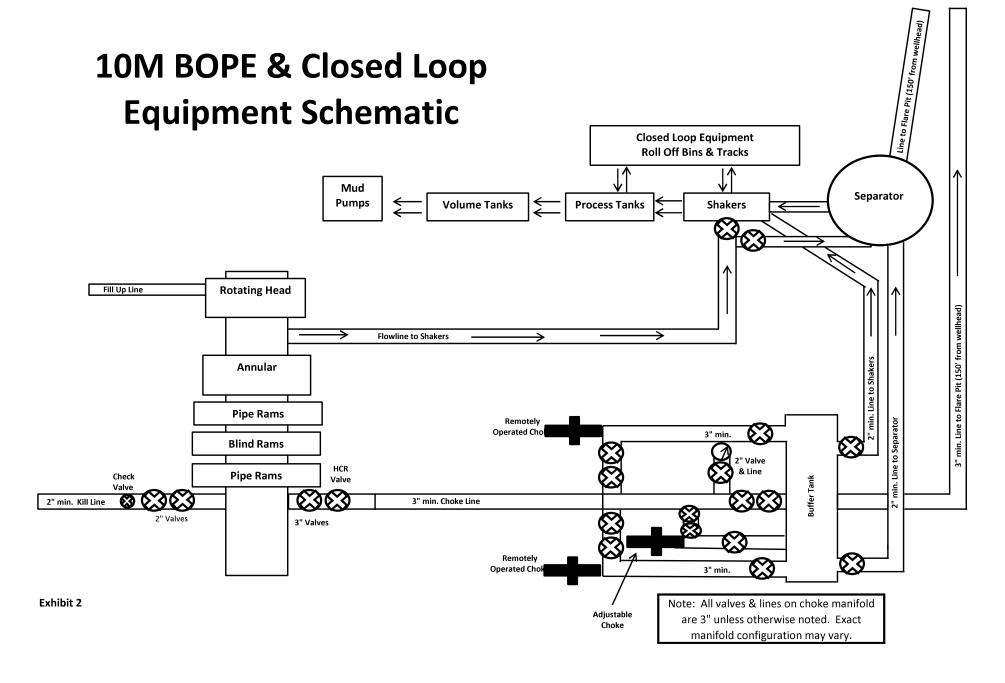
BOP Diagram Attachment:

Salado_Draw_9_W1DM_Fed_Com_2H_10M_Annular_BOP_Variance_20201119140129.doc
Salado_Draw_9_W1DM_Fed_Com_2H_10M_BOPE_Schematic_w_5M_Annular_20201119140130.pdf
Salado_Draw_9_W1DM_Fed_Com_2H_10M_Multi_Bowl_WH_Running_Proc_20201119140133.pdf

Section 3 - Casing

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	950	0	950	3325	2375	950	H-40	48	ST&C	1.77	3.98	DRY	7.06	DRY	11.8 6
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4850	0	4850	3326	-1525	4850	L-80	40	LT&C	1.23	2.28	DRY	3.75	DRY	4.72
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	12500	0	12415	3326	-9090	12500	HCP -110	29	LT&C	1.5	1.83	DRY	2.2	DRY	2.56
4	LINER	6.12 5	4.5	NEW	API	N	11950	17445	11945	12538	-8620	-9213		P- 110	13.5	LT&C	1.37	1.59	DRY	4.56	DRY	5.69

Casing Attachments





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

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

EMAIL: Tim.Cantu@gates.com

www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer: Customer Ref.:

Invoice No.:

AUSTIN DISTRIBUTING

4060578 500506

Test Date: Hose Serial No.:

Created By:

4/30/2015

D-043015-7 JUSTIN CROPPER

Product Description:

10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1:

Working Pressure:

4 1/16 10K FLG Gates Part No.:

4773-6290 10,000 PSI End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 10K FLG

L36554102914D-043015-7

15,000 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 hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager:

Date:

Signature:

QUALITY

4/30/2015

Produciton:

Date:

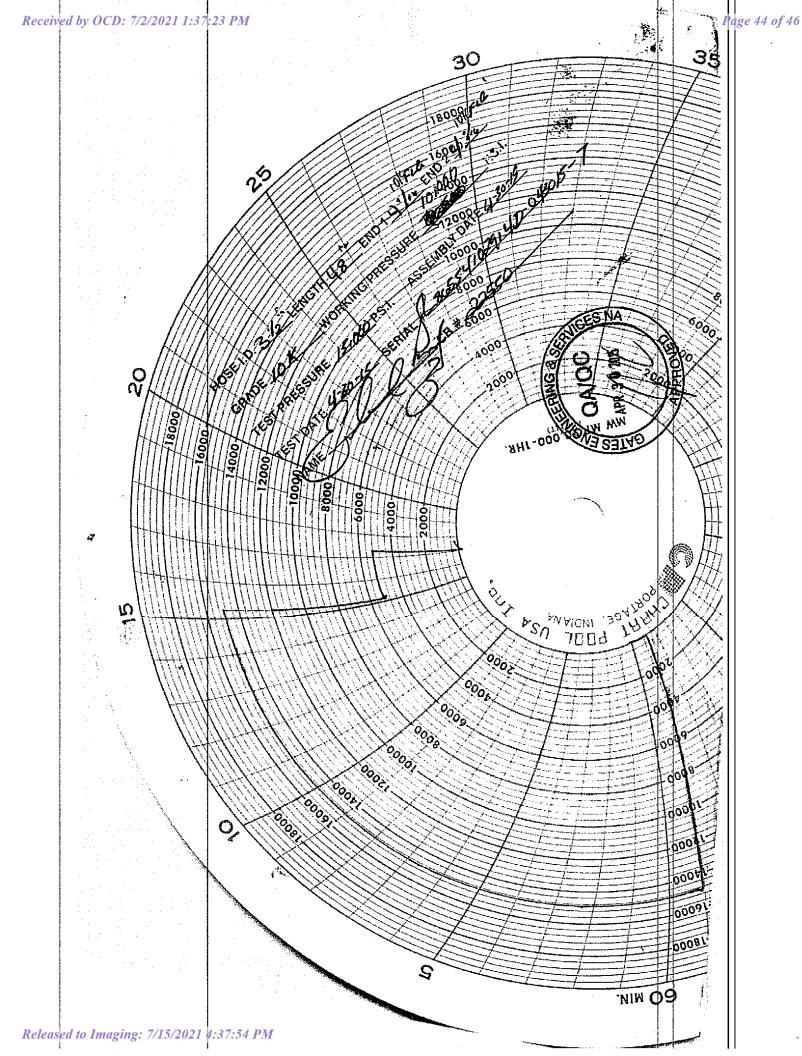
Signature :

PRODUCTION

4/30/2015

Forn PTC - 01 Rev.0 2







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

A-7 AUSTIN INC DBA AUSTIN HOSE Test Date: 8/20/2018 Customer: Hose Serial No.: H-082018-10 Customer Ref .: 4101901 Created By: Moosa Nagvi Invoice No.: 511956 10KF3.035.0CK41/1610KFLGFXDxFLT_L/E Product Description: End Fitting 2: End Fitting 1: 4 1/16 in. Fixed Flange 4 1/16 in. Float Flange Assembly Code: L40695052218H-082018-10 Gates Part No.: 68503010-9721632 Test Pressure: 15,000 psi. 10,000 psi. Working Pressure:

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:

Date:

Signature:

QUALITY

8/20/2018

Production: Date:

Signature:

8/20/2018 __

Form PTC - 01 Rev.0 2



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

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

Action 34822

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	34822
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created	Condition	Condition
Ву		Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/15/2021
	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	7/15/2021
pkautz	Will require a administrative order for non-standard location prior to placing the well on production	7/15/2021