Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANAG APPLICATION FOR PERMIT TO DR	FORM OMB N OMB N Expires: Ja 5. Lease Serial No. NMNM011038 6. If Indian, Allotee						
1a. Type of work: Image: DRILL REF 1b. Type of Well: Image: Oil Well Gas Well Other 1c. Type of Completion: Hydraulic Fracturing Sing	 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. FULLER 14/23 H3JO FED 2H 						
	(575) 393-5 th any State 55 / LONG	requirements.*) -103.9484394		9. API Well No. 30-015 10. Field and Pool, PURPLE_SAGE;/= 11. Sec., T. R. M. or SEC 14/T26S/R29	or Explorat larkey Sho Blk. and S	^{tory} Corral ale Bone S	Canyon Spring S
14. Distance in miles and direction from nearest town or post office 8.5 miles				12. County or Parisl EDDY		13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of ac	eres in lease	17. Spaci 640.0	ng Unit dedicated to t	his well		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed 9381 feet /	d Depth 17264 feet	20. BLM FED: NN	/BIA Bond No. in file // 1693			
	11/20/2021		23. Estimated durati 60 days				
 The following, completed in accordance with the requirements of C (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	 and Gas Order No. 1 4. Bond to cover th Item 20 above). 5. Operator certific 	e operation ation.	Hydraulic Fracturing r ns unless covered by an rmation and/or plans as	n existing b	oond on file (see	
25. Signature (Electronic Submission) Title		(Printed/Typed) DLEY BISHOP / Ph	: (575) 39	93-5905	Date 09/23/20	021	
Regulatory Approved by (Signature) (Electronic Submission) Title		(Printed/Typed) / LAYTON / Ph: (57	75) 234-5	959	Date 02/21/20	023	
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant l applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mail	Carlst holds legal o	bad Field Office or equitable title to the e for any person know	vingly and	willfully to make to a			
of the United States any false, fictitious or fraudulent statements or	representati	ions as to any matter	within its	jurisdiction.			



(Continued on page 2)

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1625 N. French Dr., Hobbs, NM 88240

1000 Rio Brazos Road, Aztec, NM 87410

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

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

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

District I

District II

District III

District IV

Form C-102

District Office

Revised August 1, 2011

Submit one copy to appropriate

AMENDED REPORT

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 ²Pool Code ³ Pool Name CORRAL CANYON; BONE SPRING, SOUTH 30-015-53570 13354 5 Property Name 6 Well Number ⁴Property Code 333831 FULLER 14/23 H3J0 FED 2H7 OGRID NO. 8 Operator Name 9Elevation 14744 **MEWBOURNE OIL COMPANY** 2948' ¹⁰ Surface Location UL or lot no. Lot Idn Feet from the North/South line Feet From the East/West line Section Township Range County I 26S 29E 2590 SOUTH 895 EAST EDDY 14 ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 23 0 26S 29E 100 SOUTH 2310 EAST EDDY 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 240

State of New Mexico

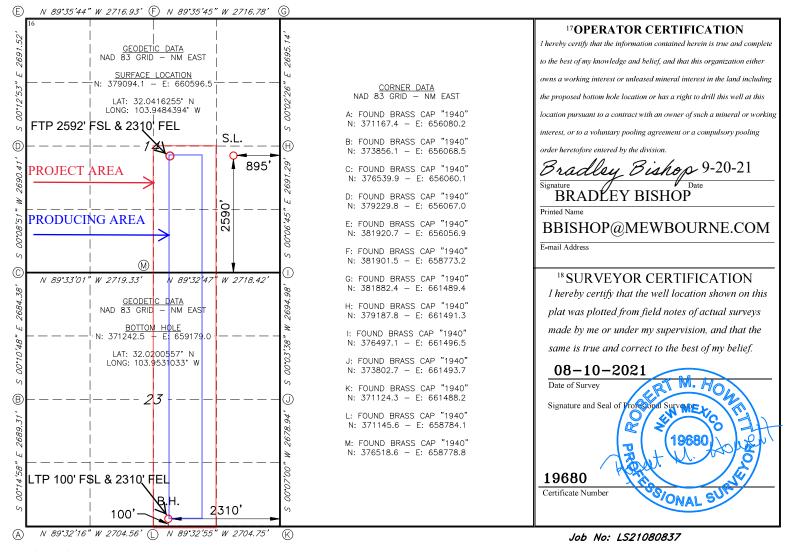
OIL CONSERVATION DIVISION

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.



Released to Imaging: 3/17/2023 9:58:33 AM

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	E	State nergy, Minerals a	e of New Mez nd Natural Res		nt		Subn Via F	hit Electronically E-permitting
		1220 S	nservation D outh St. Fran ta Fe, NM 87	cis Dr.				
	N	ATURAL GA	AS MANA	GEMENT PI	LAN			
This Natural Gas Manag	ement Plan m	ust be submitted wi	th each Applica	tion for Permit to D	Drill (A	PD) for a r	iew or	recompleted well.
			1 – Plan D fective May 25.					
I. Operator: Mev	vbourne (Dil Co.	_OGRID:	14744		Date: _	9/2	/21
II. Type: X Original] Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(6)(b) N		Other.	
If Other, please describe	:							
III. Well(s): Provide the be recompleted from a s	e following inf ingle well pad	formation for each r or connected to a c	new or recomple entral delivery p	eted well or set of vooint.	vells pi	roposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D	P	Anticipated roduced Water BBL/D
Fuller 14/23 H3JO Fed #2H		14 26S 29E	2590' FSL x 895' F	■∟ 1500	60	000		6000
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following informat	ion for each new	v or recompleted w	rell or s			7.9(D)(1) NMAC] used to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement	Date	Initial F Back D		First Production Date
Fuller 14/23 H3JO Fed #2H		11/2/21	12/2/21	1/2/22		1/17/22	2	1/17/22
VI. Separation Equipn VII. Operational Prac Subsection A through F VIII. Best Managemen during active and planne	tices: 🛛 Attac of 19.15.27.8 nt Practices: §	th a complete descr NMAC.	iption of the ac	tions Operator will	l take t	o comply	with t	he requirements of

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.

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	Well API		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.

Section 3 - Certifications Effective May 25, 2021

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

X 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.

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:	9/2/21
Phone:	575-393-5905
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
and the second se	
Approved By:	
Approved By: Title:	
Title:	proval:
Title: Approval Date:	proval:
Title: Approval Date:	proval:
Title:	

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

APD ID: 10400080320

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 14/23 H3JO FED

Well Type: OIL WELL

Well Number: 2H Well Work Type: Drill

Submission Date: 09/23/2021

Highlighted data reflects the most recent changes

03/08/2023

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
6985419	UNKNOWN	2948	28	28	OTHER : Top soil	NONE	N
6985423	RUSTLER	2673	275	275	ANHYDRITE, DOLOMITE	USEABLE WATER	N
6985410	TOP SALT	2423	525	525	SALT	NONE	N
6985411	CASTILE	1573	1375	1375	SALT	NONE	N
6985412	BOTTOM SALT	48	2900	2900	LIMESTONE	NATURAL GAS, OIL	N
6985413	LAMAR	-127	3075	3075	SANDSTONE	NATURAL GAS, OIL	N
6985420	MANZANITA	-1215	4163	4170	SANDSTONE	NATURAL GAS, OIL	N
6985415	BONE SPRING	-3917	6865	6890	SANDSTONE	NATURAL GAS, OIL	N
6985416	BONE SPRING 1ST	-4857	7805	7837	SANDSTONE	NATURAL GAS, OIL	Y
6985417	BONE SPRING 2ND	-5527	8475	8511	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 17264

Equipment: Annular, Blind Ram, Pipe Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors are not required by manufacturer. 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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 14/23 H3JO FED

Well Number: 2H

(inside BOP) and choke lines and choke manifold. See attached schematics.

Choke Diagram Attachment:

Fuller_14_23_H3JO_Fed_2H_5M_BOPE_Choke_Diagram_20210915133538.pdf

 $Fuller_14_23_H3JO_Fed_2H_Flex_Line_Specs_API_16C_20210915133538.pdf$

Fuller_14_23_H3JO_Fed_2H_Flex_Line_Specs_20210915133538.pdf

BOP Diagram Attachment:

Fuller_14_23_H3JO_Fed_2H_5M_Mutli_Bowl_WH_20210915133601.pdf

Fuller_14_23_H3JO_Fed_2H_5M_BOPE_Schematic_20210915133601.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	450	0	450	2948	2498	450	H-40	48	ST&C	3.74	8.4	DRY	14.9 1	DRY	25.0 5
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3025	0	2990	2982	-42	3025	J-55	36	LT&C	1.28	2.24	DRY	4.16	DRY	5.18
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	9886	0	9431	2982	-6483	0000	P- 110	26	LT&C	1.64	2.09	DRY	2.7	DRY	3.32
4	LINER	6.12 5	4.5	NEW	API	N	8982	17264	8858	9381	-5910	-6433		P- 110	13.5	LT&C	2.18	2.53	DRY	3.02	DRY	3.77

Casing Attachments

Received by OCD: 3/13/2023 2:56:26 PM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 14/23 H3JO FED

Well Number: 2H

Casing Attachments

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Fuller_14_23_H3JO_Fed_2H_Csg_Assumptions_20210915134247.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Fuller_14_23_H3JO_Fed_2H_Csg_Assumptions_20210915134212.pdf
Casing ID: 3 String PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Fuller_14_23_H3JO_Fed_2H_Csg_Assumptions_20210915134006.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 14/23 H3JO FED

Well Number: 2H

Casing Attachments

Casing ID: 4 String LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Fuller_14_23_H3JO_Fed_2H_Csg_Assumptions_20210915134346.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	146	60	2.12	12.5	128	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		146	450	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	2362	450	2.12	12.5	954	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		2362	3025	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		2825	6381	405	2.12	12.5	859	25	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		6381	9886	400	1.18	14.8	472	25	Class C	Retarder
LINER	Lead		8982	1726 4	335	2.97	11.2	995	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 14/23 H3JO FED

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0 450	450 3025	SPUD MUD SALT	8.6	8.8							
450	3025	SATURATED	10	10							
3025	9886	WATER-BASED MUD	8.6	9.7							
9886	1726 4	OIL-BASED MUD	8.6	10							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL in offset well Fuller 14/23 W2IP Fed #4H

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

MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG, DIRECTIONAL SURVEY, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

None

Received by OCD: 3/13/2023 2:56:26 PM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 14/23 H3JO FED

Well Number: 2H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4905

Anticipated Surface Pressure: 2841

Anticipated Bottom Hole Temperature(F): 140

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Fuller_14_23_H3JO_Fed_2H_H2S_Plan_20210915140021.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Fuller_14_23_H3JO_Fed_2H_Dir_Plan_20210915140057.pdf Fuller_14_23_H3JO_Fed_2H_Dir_Plot_20210915140057.pdf

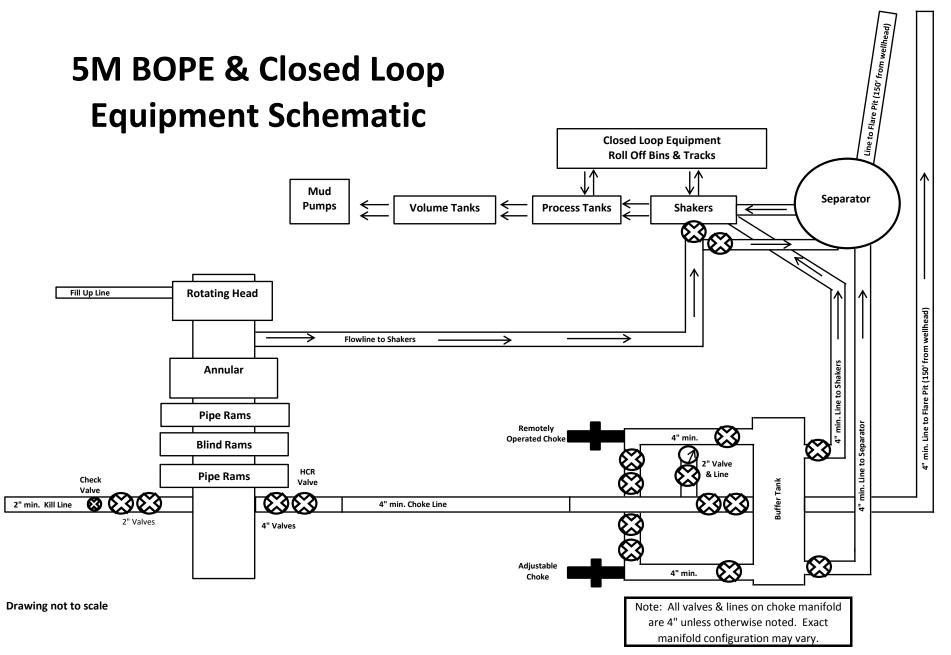
Other proposed operations facets description:

Other proposed operations facets attachment:

Fuller_14_23_H3JO_Fed_2H_Add_Info_20210915140103.pdf

Other Variance attachment:

Page 15 of 45





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

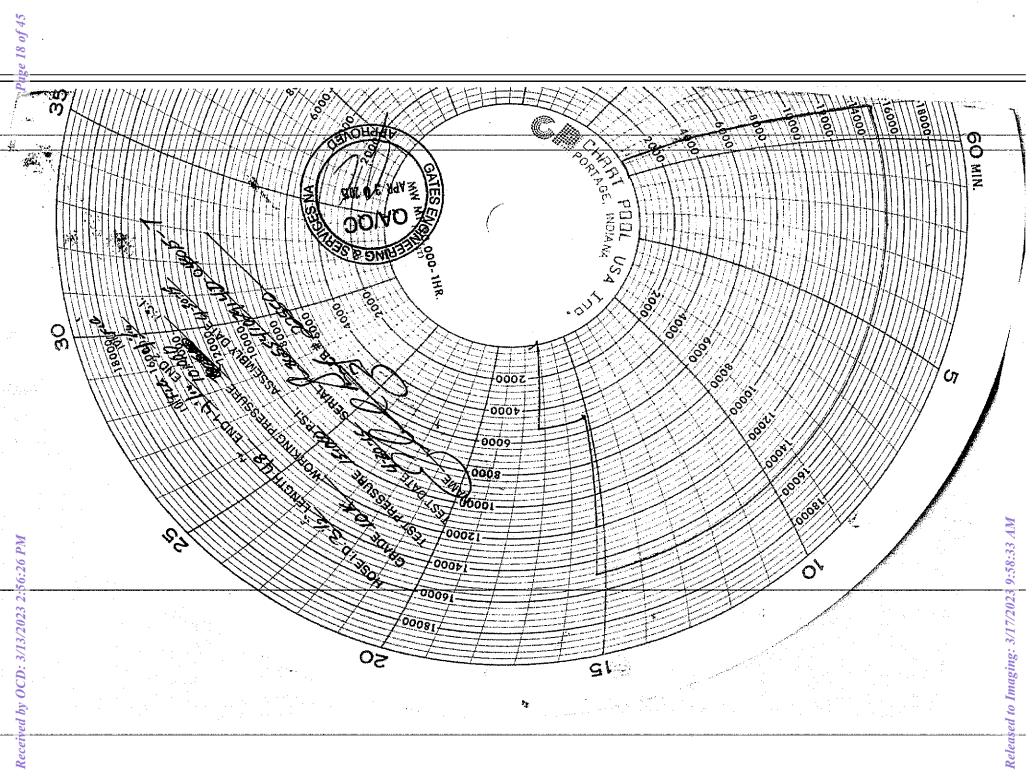
Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018				
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10				
Invoice No.:	511956	Created By:	Moosa Naqvi				
Desident Designations	10KE	3.035.0CK41/1610KFLGFXDxFLT	L/E				
Product Description:	auro .						
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange				
		_					

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:	PRODUCTION
Date :	8/20/2018	Date :	8/20/2018
Signature :	1 1000	Signature :	THE A
	VISSA NYM	/	Form PTC - 01 Rev.0 2
	J		C POINTPIC OF NOV.02



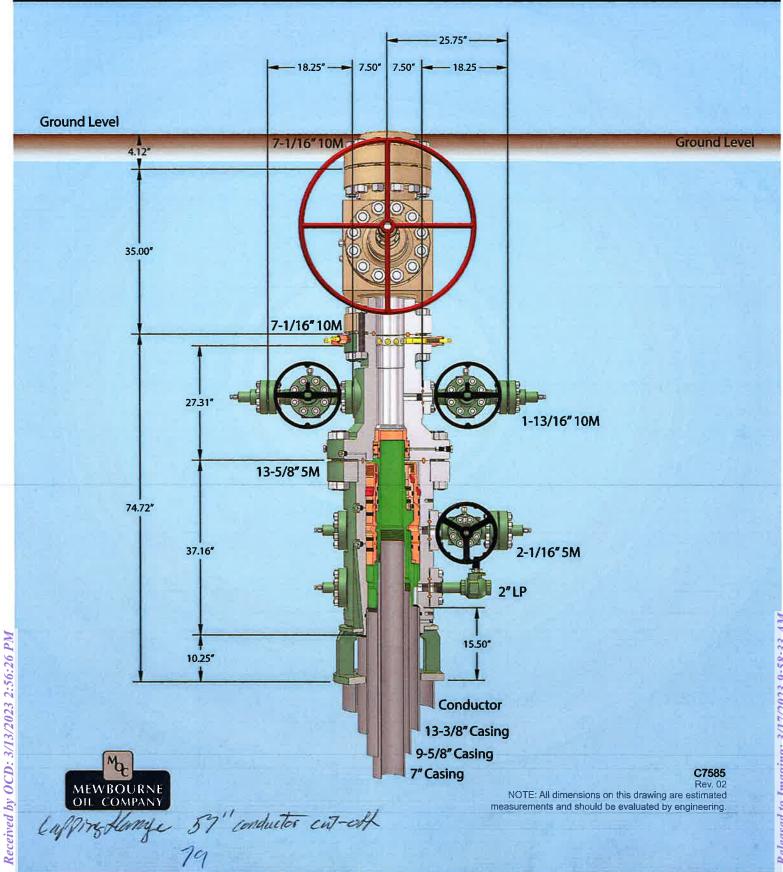
	Г I, TEXAS 78405		PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.cor</i> WEB: www.gates.com	
10K C	EMENTING ASSEMB	LY PRESSURE 1	TEST CERTIFICATE	
	AUSTIN DISTRIBUTING	Test Date:	4/30/2015	
Customer : Customer Ref. :	4060578	Hose Serial No.:	D-043015-7	
Invoice No. :	500506	Created By:	JUSTIN CROPPER	
			CERIE	
Product Description:		10K3.548.0CK4.1/1610KFLC		
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG	<u>ון</u> ון
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7	
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI	
the Gates Oil	ilfield Roughneck Agreement/	Specification requirem	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9	
the Gates Oil hydrostatic tes	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E	'Specification requiren Edition, June 2010, Te duct number. Hose bu	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 Irst pressure 9.6.7.2 exceeds the	
the Gates Oil hydrostatic tes	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod	'Specification requiren Edition, June 2010, Te duct number. Hose bu	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 Irst pressure 9.6.7.2 exceeds the	
the Gates Oil hydrostatic tes	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod	'Specification requiren Edition, June 2010, Te duct number. Hose bu	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 Irst pressure 9.6.7.2 exceeds the	
the Gates Oil hydrostatic tes to 15,000 psi	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 Irst pressure 9.6.7.2 exceeds the e per Table 9.	
the Gates Oil hydrostatic tes to 15,000 psi	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton:	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 irst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION	
the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	PRODUCTION	
the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 irst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION	
the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	PRODUCTION	
the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	PRODUCTION	
the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	PRODUCTION	
the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	PRODUCTION	
the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	PRODUCTION	
the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E i in accordance with this prod minimum of 2.5 times	/Specification requirem Edition, June 2010, Te Juct number. Hose bu the working pressure Produciton: Date :	PRODUCTION	

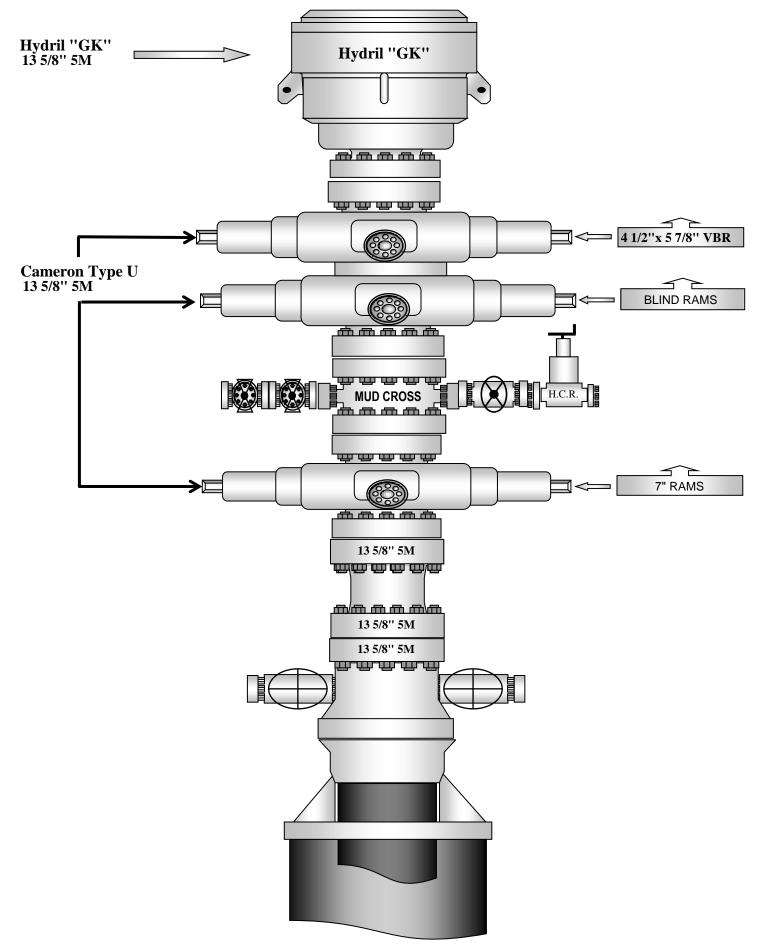




13-5/8" MN-DS Wellhead System

30





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'	3025'	9.625"	36	J55	LTC	1.28	2.24	4.16	5.18
8.75"	0'	9886'	7"	26	HCP110	LTC	1.64	2.09	2.70	3.32
6.125"	8982'	17,246'	4.5"	13.5	P110	LTC	2.18	2.53	3.02	3.77
				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 justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P? If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	N
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?	

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'	3025'	9.625"	36	J55	LTC	1.28	2.24	4.16	5.18
8.75"	0'	9886'	7"	26	HCP110	LTC	1.64	2.09	2.70	3.32
6.125"	8982'	17,246'	4.5"	13.5	P110	LTC	2.18	2.53	3.02	3.77
				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 justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
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?	

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'	3025'	9.625"	36	J55	LTC	1.28	2.24	4.16	5.18
8.75"	0'	9886'	7"	26	HCP110	LTC	1.64	2.09	2.70	3.32
6.125"	8982'	17,246'	4.5"	13.5	P110	LTC	2.18	2.53	3.02	3.77
				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 justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P? If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	N
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?	

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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8.75"	0'	9886'	7"	26	HCP110	LTC	1.64	2.09	2.70	3.32
6.125"	8982'	17,246'	4.5"	13.5	P110	LTC	2.18	2.53	3.02	3.77
				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 justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P? If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	N
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

Eddy County, New Mexico NAD 83 Fuller 14/23 H3JO Fed #2H Sec 14, T26S, R29E SHL: 2590' FSL & 895' FEL BHL: 100' FSL & 2310' FEL

Plan: Design #1

Standard Planning Report

10 September, 2021

Database: Company: Project: Site: Well: Wellbore: Design:	Eddy Fuller Sec 1	ourne Oil Comµ County, New M 14/23 H3JO Fe 4, T26S, R29E 100' FSL & 231	exico NAD 83 ed #2H		TVD Refer MD Refere North Refe	nce:		Site Fuller 14/23 H3JO Fed #2H WELL @ 2976.0usft (Original Well Elev) WELL @ 2976.0usft (Original Well Elev) Grid Minimum Curvature			
Project	Eddy C	County, New Me	exico NAD 83								
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 nerican Datum xico Eastern Zo			System Dat	um:	Gr	ound Level			
Site	Fuller	14/23 H3JO Fee	d #2H								
Site Position: From: Position Uncertair	Ma nty:	о 0.0 к	Northi Eastin usft Slot R	g:	660,5		Latitude: Longitude:			32.041625 -103.948439	
Well	Sec 14	, T26S, R29E									
Well Position Position Uncertain Grid Convergence	-	0 0	.0 usft Ea	rthing: sting: Ilhead Elevati	on:	379,094.10 660,596.50 2,976.0	usft Lon	tude: gitude: und Level:		32.041625 -103.948439 2,948.0 us	
Wellbore	BHL:	100' FSL & 231	0' FEL								
Magnetics	Mo	odel Name	Sample	e Date	Declinat (°)	tion	Dip A (°	-		Strength nT)	
		IGRF2010	1	2/31/2014		7.31		59.87	48,0	90.17571762	
Design	Design	#1									
Audit Notes: Version:			Phase	»: P	ROTOTYPE	Tie	On Depth:	I	0.0		
Vertical Section:		۵	epth From (TV (usft) 0.0	′D)	+N/-S (usft) 0.0	+E/ (us 0.	sft)		ection (°) 0.23		
Plan Survey Tool Depth From (usft)		h To	9/10/2021				5				
		· ·	(Wellbore)		Tool Name		Remarks				
1 0.	0 17,	263.3 Design	#1 (BHL: 100'	FSL & 2310							
	0 17,	263.3 Design	#1 (BHL: 100'	-SL & 2310							
1 0. Plan Sections Measured	0 17,	Azimuth (°)	#1 (BHL: 100' Vertical Depth (usft)	FSL & 2310 +N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
1 0. Plan Sections Measured Depth In (usft) 0.0	clination (°) 0.00	Azimuth (°) 0.00	Vertical Depth (usft) 0.0	+N/-S (usft) 0.0	(usft) 0.0	Rate (°/100usft) 0.00	Rate (°/100usft) 0.00	Rate (°/100usft) 0.00	(°) 0.00	Target	
1 0. Plan Sections Measured Depth In (usft)	clination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	(usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	(°)	Target	
1 0. Plan Sections Measured Depth (usft) 0.0 450.0	clination (°) 0.00 0.00	Azimuth (°) 0.00 0.00	Vertical Depth (usft) 0.0 450.0	+N/-S (usft) 0.0 0.0	(usft) 0.0 0.0	Rate (°/100usft) 0.00 0.00	Rate (°/100usft) 0.00 0.00	Rate (°/100usft) 0.00 0.00	(°) 0.00 0.00	Target	
1 0. Plan Sections Measured Depth (usft) In 0.0 450.0 959.3	clination (°) 0.00 0.00 10.19	Azimuth (°) 0.00 0.00 274.15	Vertical Depth (usft) 0.0 450.0 956.6	+N/-S (usft) 0.0 0.0 3.3	(usft) 0.0 0.0 -45.0	Rate (°/100usft) 0.00 0.00 2.00	Rate (°/100usft) 0.00 0.00 2.00	Rate (°/100usft) 0.00 0.00 0.00	(°) 0.00 0.00 274.15 0.00	Target KOP: 2682' FSL & 23	

9/10/2021 12:27:49PM

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 14/23 H3JO Fed #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2976.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2976.0usft (Original Well Elev)
Site:	Fuller 14/23 H3JO Fed #2H	North Reference:	Grid
Well:	Sec 14, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2310' FEL		
Design:	Design #1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	SL & 895' FEL								
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
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	1.00	274.15	500.0	0.0	-0.4	0.0	2.00	2.00	0.00
600.0	3.00	274.15	599.9	0.3	-3.9	0.4	2.00	2.00	0.00
700.0	5.00	274.15	699.7	0.8	-10.9	1.2	2.00	2.00	0.00
800.0	7.00	274.15	799.1	1.5	-21.3	2.3	2.00	2.00	0.00
900.0	9.00	274.15	898.2	2.6	-35.2	3.7	2.00	2.00	0.00
959.3	10.19	274.15	956.6	3.3	-45.0	4.8	2.00	2.00	0.00
1,000.0	10.19	274.15	996.7	3.8	-52.2	5.5	0.00	0.00	0.00
1,100.0	10.19	274.15	1,095.1	5.1	-69.9	7.4	0.00	0.00	0.00
1,200.0	10.19	274.15	1,193.5	6.3	-87.5	9.3	0.00	0.00	0.00
1,300.0	10.19	274.15	1,292.0	7.6	-105.1	11.2	0.00	0.00	0.00
1,400.0	10.19	274.15	1,390.4	8.9	-122.8	13.0	0.00	0.00	0.00
1,500.0	10.19	274.15	1,488.8	10.2	-140.4	14.9	0.00	0.00	0.00
1,600.0	10.19	274.15	1,587.2	11.5	-158.0	16.8	0.00	0.00	0.00
1,700.0	10.19	274.15	1,685.6	12.7	-175.7	18.7	0.00	0.00	0.00
1,800.0	10.19	274.15	1,784.1	14.0	-193.3	20.5	0.00	0.00	0.00
1,900.0	10.19	274.15	1,882.5	15.3	-211.0	22.4	0.00	0.00	0.00
2,000.0	10.19	274.15	1,980.9	16.6	-228.6	24.3	0.00	0.00	0.00
2,100.0	10.19	274.15	2,079.3	17.9	-246.2	26.2	0.00	0.00	0.00
2,200.0	10.19	274.15	2,177.8	19.1	-263.9	28.0	0.00	0.00	0.00
2,300.0	10.19	274.15	2,276.2	20.4	-281.5	29.9	0.00	0.00	0.00
2,400.0	10.19	274.15	2,374.6	21.7	-299.1	31.8	0.00	0.00	0.00
2,500.0	10.19	274.15	2,473.0	23.0	-316.8	33.7	0.00	0.00	0.00
2,600.0	10.19	274.15	2,571.5	24.3	-334.4	35.5	0.00	0.00	0.00
2,700.0	10.19	274.15	2,669.9	25.5	-352.1	37.4	0.00	0.00	0.00
2,800.0	10.19	274.15	2,768.3	26.8	-369.7	39.3	0.00	0.00	0.00
2,900.0	10.19	274.15	2,866.7	28.1	-387.3	41.2	0.00	0.00	0.00
3,000.0	10.19	274.15	2,965.2	29.4	-405.0	43.0	0.00	0.00	0.00
3,100.0	10.19	274.15	3,063.6	30.7	-422.6	44.9	0.00	0.00	0.00
3,200.0	10.19	274.15	3,162.0	31.9	-440.2	46.8	0.00	0.00	0.00
3,300.0	10.19	274.15	3,260.4	33.2	-457.9 -475.5	48.7 50 5	0.00 0.00	0.00	0.00
3,400.0	10.19	274.15	3,358.9	34.5		50.5		0.00	0.00
3,500.0	10.19	274.15	3,457.3	35.8	-493.2	52.4	0.00	0.00	0.00
3,600.0	10.19	274.15	3,555.7	37.1	-510.8	54.3	0.00	0.00	0.00
3,700.0	10.19	274.15	3,654.1	38.3	-528.4	56.1	0.00	0.00	0.00
3,800.0	10.19	274.15	3,752.6	39.6	-546.1	58.0	0.00	0.00	0.00
3,900.0	10.19	274.15	3,851.0	40.9	-563.7	59.9	0.00	0.00	0.00
4,000.0	10.19	274.15	3,949.4	42.2	-581.3	61.8	0.00	0.00	0.00
4,100.0	10.19	274.15	4,047.8	43.5	-599.0	63.6	0.00	0.00	0.00
4,200.0	10.19	274.15	4,146.2	44.7	-616.6	65.5	0.00	0.00	0.00
4,300.0	10.19	274.15	4,244.7	46.0	-634.3	67.4	0.00	0.00	0.00
4,300.0	10.19	274.15	4,343.1	40.0	-651.9	69.3	0.00	0.00	0.00
4,400.0	10.19	274.15 274.15	4,343.1 4,441.5	47.3	-669.5	71.1	0.00	0.00	0.00
4,500.0	10.19	274.15	4,441.5	48.0	-687.2	73.0	0.00	0.00	0.00
4,800.0	10.19	274.15 274.15	4,539.9 4,638.4	49.9 51.1	-007.2 -704.8	73.0 74.9	0.00	0.00	0.00
,									
4,800.0	10.19	274.15	4,736.8	52.4	-722.4	76.8	0.00	0.00	0.00
4,900.0	10.19	274.15	4,835.2	53.7	-740.1	78.6	0.00	0.00	0.00
5,000.0	10.19	274.15	4,933.6	55.0	-757.7	80.5	0.00	0.00	0.00

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Page 3

COMPASS 5000.16 Build 97

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Hobbs	Local Co-ordinate Reference:	Site Fuller 14/23 H3JO Fed #2H
Mewbourne Oil Company	TVD Reference:	WELL @ 2976.0usft (Original Well Elev)
Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2976.0usft (Original Well Elev)
Fuller 14/23 H3JO Fed #2H	North Reference:	Grid
Sec 14, T26S, R29E	Survey Calculation Method:	Minimum Curvature
BHL: 100' FSL & 2310' FEL		
Design #1		
	Mewbourne Oil Company Eddy County, New Mexico NAD 83 Fuller 14/23 H3JO Fed #2H Sec 14, T26S, R29E BHL: 100' FSL & 2310' FEL	Mewbourne Oil Company TVD Reference: Eddy County, New Mexico NAD 83 MD Reference: Fuller 14/23 H3JO Fed #2H North Reference: Sec 14, T26S, R29E Survey Calculation Method: BHL: 100' FSL & 2310' FEL Survey Calculation Method:

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	10.19	274.15	5,032.1	56.3	-775.4	82.4	0.00	0.00	0.00
5,200.0	10.19	274.15	5,130.5	57.5	-793.0	84.3	0.00	0.00	0.00
5,300.0	10.19	274.15	5,228.9	58.8	-810.6	86.1	0.00	0.00	0.00
5,400.0	10.19	274.15	5,327.3	60.1	-828.3	88.0	0.00	0.00	0.00
5,500.0	10.19	274.15	5,425.8	61.4	-845.9	89.9	0.00	0.00	0.00
5,600.0	10.19	274.15	5,524.2	62.7	-863.5	91.8	0.00	0.00	0.00
5,700.0	10.19	274.15	5,622.6	63.9	-881.2	93.6	0.00	0.00	0.00
5,800.0	10.19	274.15	5,721.0	65.2	-898.8	95.5	0.00	0.00	0.00
5,900.0	10.19	274.15	5,819.5	66.5	-916.5	97.4	0.00	0.00	0.00
6,000.0	10.19	274.15	5,917.9	67.8	-934.1	99.3	0.00	0.00	0.00
6,100.0	10.19	274.15	6,016.3	69.1	-951.7	101.1	0.00	0.00	0.00
6,200.0	10.19	274.15	6,114.7	70.3	-969.4	103.0	0.00	0.00	0.00
6,300.0	10.19	274.15	6,213.1	71.6	-987.0	104.9	0.00	0.00	0.00
6,400.0	10.19	274.15	6,311.6	72.9	-1,004.6	106.8	0.00	0.00	0.00
6,500.0	10.19	274.15	6,410.0	74.2	-1,022.3	108.6	0.00	0.00	0.00
6,600.0	10.19	274.15	6,508.4	75.5	-1,039.9	110.5	0.00	0.00	0.00
6,700.0	10.19	274.15	6,606.8	76.7	-1,057.6	112.4	0.00	0.00	0.00
6,800.0	10.19	274.15	6,705.3	78.0	-1,075.2	114.2	0.00	0.00	0.00
6,900.0	10.19	274.15	6,803.7	79.3	-1,092.8	116.1	0.00	0.00	0.00
7,000.0	10.19	274.15	6,902.1	80.6	-1,110.5	118.0	0.00	0.00	0.00
7,100.0	10.19	274.15	7,000.5	81.9	-1,128.1	119.9	0.00	0.00	0.00
7,200.0	10.19	274.15	7,099.0	83.1	-1,145.7	121.7	0.00	0.00	0.00
7,300.0	10.19	274.15	7,197.4	84.4	-1,163.4	123.6	0.00	0.00	0.00
7,300.0	10.19	274.15	7,295.8	85.7	,	125.5	0.00	0.00	0.00
					-1,181.0				
7,500.0	10.19	274.15	7,394.2	87.0	-1,198.7	127.4	0.00	0.00	0.00
7,600.0	10.19	274.15	7,492.7	88.3	-1,216.3	129.2	0.00	0.00	0.00
7,700.0	10.19	274.15	7,591.1	89.5	-1,233.9	131.1	0.00	0.00	0.00
7,800.0	10.19	274.15	7,689.5	90.8	-1,251.6	133.0	0.00	0.00	0.00
7,900.0	10.19	274.15	7,787.9	92.1	-1,269.2	134.9	0.00	0.00	0.00
8,000.0	10.19	274.15	7,886.4	93.4	-1,286.8	136.7	0.00	0.00	0.00
8,100.0	10.19	274.15	7,984.8	94.7	-1,304.5	138.6	0.00	0.00	0.00
8,200.0	10.19	274.15	8,083.2	95.9	-1,322.1	140.5	0.00	0.00	0.00
8,300.0	10.19	274.15	8,181.6	97.2	-1,339.8	142.4	0.00	0.00	0.00
8,400.0	10.19	274.15	8,280.1	98.5	-1,357.4	144.2	0.00	0.00	0.00
8,472.5	10.19	274.15	8,351.4	99.4	-1,370.2	145.6	0.00	0.00	0.00
8,500.0	9.64	274.15	8,378.5	99.8	-1,374.9	146.1	2.00	-2.00	0.00
8,600.0	7.64	274.15	8,477.4	100.9	-1,389.9	140.1	2.00	-2.00	0.00
8,700.0	5.64	274.15	8,576.7	101.7	-1,401.4	148.9	2.00	-2.00	0.00
8,800.0	3.64	274.15	8,676.4	102.3	-1,409.5	149.8	2.00	-2.00	0.00
8,900.0	1.64	274.15	8,776.2	102.6	-1,414.1	150.3	2.00	-2.00	0.00
8,981.8	0.00	0.00	8,858.0	102.7	-1,415.2	150.4	2.00	-2.00	0.00
KOP: 2682' F 9,000.0	FSL & 2310' FEL 1.82	180.02	8,876.2	102.4	-1,415.2	150.7	10.00	10.00	0.00
9,050.0	6.82	180.02	8,926.1	98.6	-1,415.2	154.4	10.00	10.00	0.00
9,100.0	11.82	180.02	8,975.4	90.5	-1,415.2	162.3	10.00	10.00	0.00
9,150.0	16.82	180.02	9,023.8	78.2	-1,415.2	174.5	10.00	10.00	0.00
9,200.0	21.82	180.02	9,071.0	61.6	-1,415.2	190.8	10.00	10.00	0.00
9,250.0	26.82	180.02	9,116.5	41.1	-1,415.2	211.0	10.00	10.00	0.00
9,300.0	31.82	180.02	9,160.1	16.6	-1,415.2	235.1	10.00	10.00	0.00
9,327.9	34.61	180.02	9,183.5	1.3	-1,415.3	250.2	10.00	10.00	0.00
	SL & 2310' FEL		_						
9,350.0	36.82	180.02	9,201.4	-11.6	-1,415.3	262.9	10.00	10.00	0.00
9,400.0	41.82	180.02	9,240.1	-43.3	-1,415.3	294.0	10.00	10.00	0.00
9,450.0	46.82	180.02	9,275.8	-78.2	-1,415.3	328.4	10.00	10.00	0.00

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COMPASS 5000.16 Build 97

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Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 14/23 H3JO Fed #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2976.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2976.0usft (Original Well Elev)
Site:	Fuller 14/23 H3JO Fed #2H	North Reference:	Grid
Well:	Sec 14, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2310' FEL		
Design:	Design #1		

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)
9,500.0	51.82	180.02	9.308.4	-116.1	-1,415.3	365.7	10.00	10.00	0.00
9,550.0	56.82	180.02	9,337.6	-156.7	-1,415.3	405.6	10.00	10.00	0.00
9,600.0	61.82	180.02	9,363.1	-199.7	-1,415.3	448.0	10.00	10.00	0.00
9,650.0	66.82	180.02	9,384.7	-244.7	-1,415.3	492.3	10.00	10.00	0.00
9,700.0	71.82	180.02	9,402.4	-291.5	-1,415.3	538.3	10.00	10.00	0.00
9,750.0	76.82	180.02	9,415.9	-339.6	-1,415.3	585.7	10.00	10.00	0.00
9,800.0	81.82	180.02	9,425.2	-388.7	-1,415.4	634.0	10.00	10.00	0.00
9,850.0	86.82	180.02	9,430.1	-438.5	-1,415.4	683.0	10.00	10.00	0.00
9,885.7	90.39	180.02	9,431.0	-474.2	-1,415.4	718.1	9.99	9.99	0.00
LP: 2116' FS	L & 2310' FEL								
9,900.0	90.39	180.02	9,430.9	-488.5	-1,415.4	732.1	0.00	0.00	0.00
10,000.0	90.39	180.02	9,430.2	-588.4	-1,415.4	830.6	0.00	0.00	0.00
10,100.0	90.39	180.02	9,429.5	-688.4	-1,415.4	929.0	0.00	0.00	0.00
10,200.0	90.39	180.02	9,428.9	-788.4	-1,415.5	1,027.4	0.00	0.00	0.00
10,300.0	90.39	180.02	9,428.2	-888.4	-1,415.5	1,125.8	0.00	0.00	0.00
10,400.0	90.39	180.02	9,427.5	-988.4	-1,415.5	1,224.2	0.00	0.00	0.00
10,500.0	90.39	180.02	9,426.8	-1,088.4	-1,415.6	1,322.6	0.00	0.00	0.00
10,600.0	90.39	180.02	9,426.2	-1,188.4	-1,415.6	1,421.0	0.00	0.00	0.00
10,700.0	90.39	180.02	9,425.5	-1,288.4	-1,415.6	1,421.0	0.00	0.00	0.00
10,700.0	90.39	180.02	9,424.8	-1,388.4	-1,415.6	1,617.9	0.00	0.00	0.00
10,800.0	90.39	180.02	9,424.0	-1,388.4	-1,415.0	1,716.3	0.00	0.00	0.00
				-1.588.4					
11,000.0	90.39	180.02	9,423.4	,	-1,415.7	1,814.7	0.00	0.00	0.00
11,100.0	90.39	180.02	9,422.8	-1,688.4	-1,415.7	1,913.1	0.00	0.00	0.00
11,200.0	90.39	180.02	9,422.1	-1,788.4	-1,415.8	2,011.5	0.00	0.00	0.00
11,300.0	90.39	180.02	9,421.4	-1,888.4	-1,415.8	2,109.9	0.00	0.00	0.00
11,400.0	90.39	180.02	9,420.7	-1,988.4	-1,415.8	2,208.3	0.00	0.00	0.00
11,500.0	90.39	180.02	9,420.1	-2,088.4	-1,415.8	2,306.7	0.00	0.00	0.00
11,600.0	90.39	180.02	9,419.4	-2,188.4	-1,415.9	2,405.1	0.00	0.00	0.00
11,700.0	90.39	180.02	9,418.7	-2,288.4	-1,415.9	2,503.6	0.00	0.00	0.00
11,800.0	90.39	180.02	9,418.0	-2,388.4	-1,415.9	2,602.0	0.00	0.00	0.00
11,900.0	90.39	180.02	9,417.3	-2,488.4	-1,416.0	2,700.4	0.00	0.00	0.00
12,000.0	90.39	180.02	9,416.7	-2,588.4	-1,416.0	2,798.8	0.00	0.00	0.00
12,100.0	90.39	180.02	9,416.0	-2,688.4	-1,416.0	2,897.2	0.00	0.00	0.00
12,200.0	90.39	180.02	9,415.3	-2,788.4	-1,416.0	2,995.6	0.00	0.00	0.00
12,300.0	90.39	180.02	9,414.6	-2,888.4	-1,416.1	3,094.0	0.00	0.00	0.00
12,400.0	90.39	180.02	9,414.0	-2,988.4	-1,416.1	3,192.4	0.00	0.00	0.00
12,500.0	90.39	180.02	9,413.3	-3,088.4	-1,416.1	3,290.9	0.00	0.00	0.00
12,600.0	90.39	180.02	9,412.6	-3,188.4	-1,416.2	3,389.3	0.00	0.00	0.00
12,700.0	90.39	180.02	9,411.9	-3,288.4	-1,416.2	3,487.7	0.00	0.00	0.00
12,800.0	90.39	180.02	9,411.2	-3,388.4	-1,416.2	3,586.1	0.00	0.00	0.00
12,900.0	90.39	180.02	9,410.6	-3,488.4	-1,416.3	3,684.5	0.00	0.00	0.00
13,000.0	90.39	180.02	9,409.9	-3,588.4	-1,416.3	3,782.9	0.00	0.00	0.00
13,100.0	90.39	180.02	9,409.2	-3,688.4	-1,416.3	3,881.3	0.00	0.00	0.00
13,200.0	90.39	180.02	9,408.5	-3,788.4	-1,416.3	3,979.7	0.00	0.00	0.00
13,300.0	90.39	180.02	9,407.9	-3,888.4	-1,416.4	4,078.1	0.00	0.00	0.00
13,400.0	90.39	180.02	9,407.2	-3,988.4	-1,416.4	4,176.6	0.00	0.00	0.00
13,500.0	90.39	180.02	9,406.5	-4,088.4	-1,416.4	4,275.0	0.00	0.00	0.00
13,600.0	90.39	180.02	9,405.8	-4,188.4	-1,416.5	4,373.4	0.00	0.00	0.00
13,700.0	90.39	180.02	9,405.1	-4,288.4	-1,416.5	4,471.8	0.00	0.00	0.00
13,800.0	90.39	180.02	9,404.5	-4,388.4	-1,416.5	4,570.2	0.00	0.00	0.00
13,900.0	90.39	180.02	9,403.8	-4,488.4	-1,416.5	4,668.6	0.00	0.00	0.00
14,000.0	90.39	180.02	9,403.1	-4,588.4	-1,416.6	4,767.0	0.00	0.00	0.00
14,100.0	90.39	180.02	9,402.4	-4,688.4	-1,416.6	4,865.4	0.00	0.00	0.00

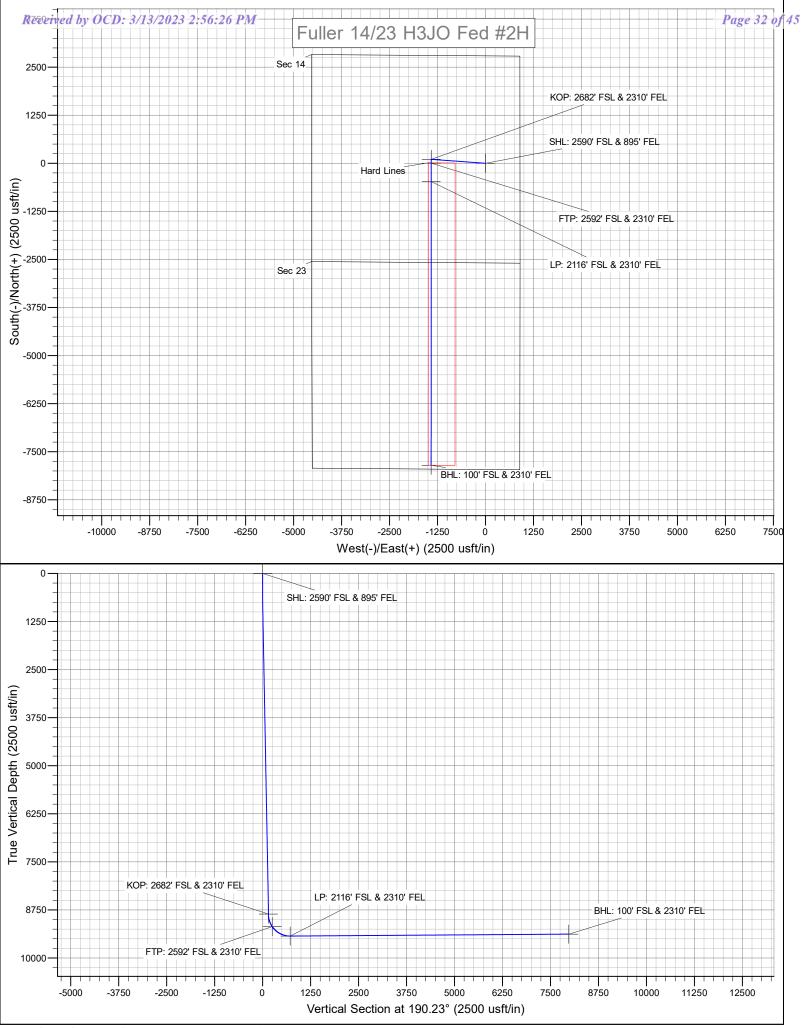
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Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 14/23 H3JO Fed #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2976.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2976.0usft (Original Well Elev)
Site:	Fuller 14/23 H3JO Fed #2H	North Reference:	Grid
Well:	Sec 14, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2310' FEL		
Design:	Design #1		

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)
14,200.0	90.39	180.02	9,401.8	-4,788.4	-1,416.6	4,963.9	0.00	0.00	0.00
14,300.0	90.39	180.02	9,401.1	-4,888.3	-1,416.7	5,062.3	0.00	0.00	0.00
14,400.0	90.39	180.02	9,400.4	-4,988.3	-1,416.7	5,160.7	0.00	0.00	0.00
14,500.0	90.39	180.02	9,399.7	-5,088.3	-1,416.7	5,259.1	0.00	0.00	0.00
14,600.0	90.39	180.02	9,399.0	-5,188.3	-1,416.7	5,357.5	0.00	0.00	0.00
14,700.0	90.39	180.02	9,398.4	-5,288.3	-1,416.8	5,455.9	0.00	0.00	0.00
14,800.0	90.39	180.02	9,397.7	-5,388.3	-1,416.8	5,554.3	0.00	0.00	0.00
14,900.0	90.39	180.02	9,397.0	-5,488.3	-1,416.8	5,652.7	0.00	0.00	0.00
15,000.0	90.39	180.02	9.396.3	-5.588.3	-1,416.9	5.751.2	0.00	0.00	0.00
15,100.0	90.39	180.02	9,395.7	-5,688.3	-1,416.9	5,849.6	0.00	0.00	0.00
15,200.0	90.39	180.02	9,395.0	-5,788.3	-1,416.9	5,948.0	0.00	0.00	0.00
15,300.0	90.39	180.02	9,394.3	-5,888.3	-1,416.9	6,046.4	0.00	0.00	0.00
15,400.0	90.39	180.02	9,393.6	-5,988.3	-1,417.0	6,144.8	0.00	0.00	0.00
15,500.0	90.39	180.02	9,393.0	-6,088.3	-1,417.0	6,243.2	0.00	0.00	0.00
15,600.0	90.39	180.02	9,392.3	-6,188.3	-1,417.0	6,341.6	0.00	0.00	0.00
15,700.0	90.39	180.02	9,391.6	-6,288.3	-1,417.1	6,440.0	0.00	0.00	0.00
15,800.0	90.39	180.02	9,390.9	-6,388.3	-1,417.1	6,538.4	0.00	0.00	0.00
15,900.0	90.39	180.02	9,390.2	-6,488.3	-1,417.1	6,636.9	0.00	0.00	0.00
16,000.0	90.39	180.02	9,389.6	-6,588.3	-1,417.1	6,735.3	0.00	0.00	0.00
16,100.0	90.39	180.02	9,388.9	-6,688.3	-1,417.2	6,833.7	0.00	0.00	0.00
16,200.0	90.39	180.02	9,388.2	-6,788.3	-1,417.2	6,932.1	0.00	0.00	0.00
16,300.0	90.39	180.02	9,387.5	-6,888.3	-1,417.2	7,030.5	0.00	0.00	0.00
16,400.0	90.39	180.02	9,386.9	-6,988.3	-1,417.3	7,128.9	0.00	0.00	0.00
16,500.0	90.39	180.02	9,386.2	-7,088.3	-1,417.3	7,227.3	0.00	0.00	0.00
16,600.0	90.39	180.02	9,385.5	-7,188.3	-1,417.3	7,325.7	0.00	0.00	0.00
16,700.0	90.39	180.02	9,384.8	-7,288.3	-1,417.3	7,424.2	0.00	0.00	0.00
16,800.0	90.39	180.02	9,384.1	-7,388.3	-1,417.4	7,522.6	0.00	0.00	0.00
16,900.0	90.39	180.02	9,383.5	-7,488.3	-1,417.4	7,621.0	0.00	0.00	0.00
17,000.0	90.39	180.02	9,382.8	-7,588.3	-1,417.4	7,719.4	0.00	0.00	0.00
17,100.0	90.39	180.02	9,382.1	-7,688.3	-1,417.5	7,817.8	0.00	0.00	0.00
17,200.0	90.39	180.02	9,381.4	-7,788.3	-1,417.5	7,916.2	0.00	0.00	0.00
17,263.3	90.39	180.02	9,381.0	-7,851.6	-1,417.5	7,978.5	0.00	0.00	0.00
BHL: 100' FS	SL & 2310' FEL								

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne 0 Eddy County Fuller 14/23 H Sec 14, T265 BHL: 100' FS Design #1	, New Mexico H3JO Fed #2I 6, R29E	Н		TVD Refere MD Referen North Refer	ice:	WELL @ 2 WELL @ 2 Grid	Site Fuller 14/23 H3JO Fed #2H WELL @ 2976.0usft (Original Well Elev) WELL @ 2976.0usft (Original Well Elev) Grid Minimum Curvature		
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: 2590' FSL & 895' - plan hits target ca - Point		0.00	0.0	0.0	0.0	379,094.10	660,596.50	32.0416254	-103.9484393	
KOP: 2682' FSL & 231 - plan hits target ce - Point		0.00	8,858.0	102.7	-1,415.2	379,196.79	659,181.28	32.0419215	-103.9530055	
FTP: 2592' FSL & 2310 - plan hits target ca - Point		0.00	9,183.5	1.3	-1,415.3	379,095.40	659,181.25	32.0416428	-103.9530068	
BHL: 100' FSL & 2310' - plan hits target ce - Point		0.00	9,381.0	-7,851.6	-1,417.5	371,242.50	659,179.00	32.0200558	-103.9531033	
LP: 2116' FSL & 2310' - plan hits target ca - Point		0.00	9,431.0	-474.2	-1,415.4	378,619.90	659,181.12	32.0403357	-103.9530126	



Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Fuller 14/23 H3JO Federal	2H

Kick Off Point (KOP)

UL J	Section 14	Township 26S	Range 29E	Lot	Feet 2682	From N/S S	Feet 2310	From E/W E	County Eddy
Latitu	Latitude						NAD		
32.0	32.0419215					30055	83		

First Take Point (FTP)

UL J	Section 14	Township 26S	Range 29E	Lot	Feet 2592	From N/S S	Feet 2310	From E/W E	County Eddy
Latitu	Latitude						NAD		
32.0	32.0416428				-103.953	30068	83		

Last Take Point (LTP)

UL O	Section 23	Township 26S	Range 29E	Lot	Feet 100	From N/S S	Feet 2310	From E/W E	County Eddy
Latitude					Longitud			NAD	
32.0	32.0200557					9531033	3	83	

Is this well the defining well for the Horizontal Spacing Unit? Y

Is this well an infill well?

N

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Mewbourne Oil Company	
LEASE NO.:	NMNM011038
WELL NAME & NO.:	FULLER 14-23 H3JO FED 2H
SURFACE HOLE FOOTAGE:	2590'/S & 895'/E
BOTTOM HOLE FOOTAGE	100'/S & 2310'/E
LOCATION:	Section 14, T.26 S., R.29 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	O Yes	• No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	O Low	Medium	O High
Cave/Karst Potential	Critical		
Variance	O 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	СОМ	🗆 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 **3,025** 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.
 - In <u>Medium 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:
 - 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.

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- 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.

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)

\boxtimes Eddy County

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Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
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- Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 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.
- <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 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

Page 4 of 7

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

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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

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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.

OTA02082023

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. Visual Warning Systems

A. Wind direction indicators as indicated on the wellsite diagram.B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

Eddy County Sheriff's 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	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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 14/23 H3JO FED

Well Number: 2H

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: GARBAGE

Waste content description: Garbage & trash from all drilling & completion procedures

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailers

Safe containmant attachment:

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

Disposal location description: County of Eddy waste management

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

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Page 4 of 10

Received by OCD: 3/13/2023 2:56:26 PM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 14/23 H3JO FED

Well Number: 2H

Description of cuttings location Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.) and taken to an NMOCD approved disposal facility listed below. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at the said facilities. NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

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

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Fuller14_23H3JOFed2H_wellsitelayout_20210920142817.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Fuller 14/23 IP/JO Fed wells Multiple Well Pad Number: 6

Recontouring

Drainage/Erosion control construction: None required Drainage/Erosion control reclamation: None required

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	196462
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

CONDITION			
Created By	Condition	Condition Date	
kpickford	Will require a name change complying with OCD policy prior to putting the well into production.	3/15/2023	
kpickford	Notify OCD 24 hours prior to casing & cement	3/15/2023	
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/15/2023	
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	3/17/2023	
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/17/2023	
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		3/17/2023	

CONDITIONS

Action 196462