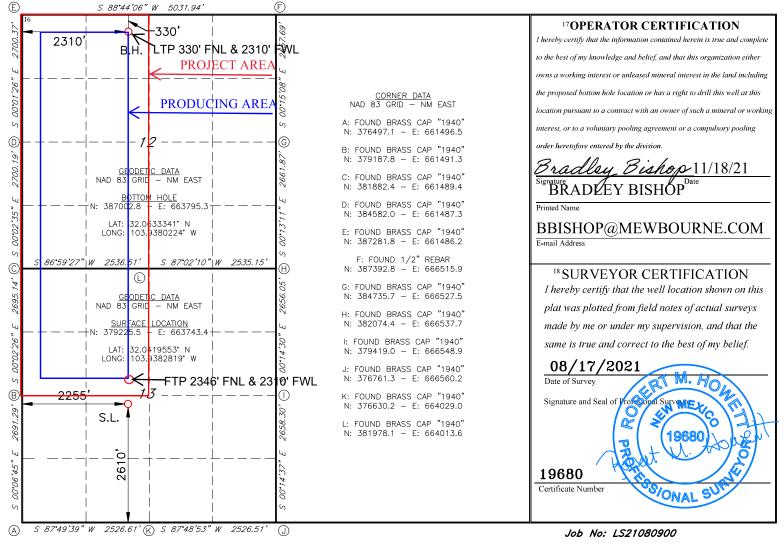
Form 3160-3 (June 2015)					APPROV o. 1004-0 inuary 31	137		
UNITED STATES		IOD		5. Lease Serial No.				
DEPARTMENT OF THE IN BUREAU OF LAND MANA				NMLC061497				
APPLICATION FOR PERMIT TO D				6. If Indian, Allotee or Tribe Name				
		-						
1a. Type of work:   Image: Constraint of the second seco	EENTEI	R		7. If Unit or CA Agr	reement, l	Name and No.		
1b. Type of Well: ☐ Oil Well ✔ Gas Well ☐ Ot	her							
1c. Type of Completion: Hydraulic Fracturing		8. Lease Name and Well No. FULLER 13/12 W2FC FED COM						
2. Name of Operator MEWBOURNE OIL COMPANY				2H 9. API Well No. <b>30-015-5</b>	3508			
3a. Address P O BOX 5270, HOBBS, NM 88241		one No. <i>(include area code</i> 393-5905	e)	10. Field and Pool, of PURPLE SAGE W	-	•		
4. Location of Well (Report location clearly and in accordance w	vith any	State requirements.*)		11. Sec., T. R. M. or		Survey or Area		
At surface NESW / 2610 FSL / 2255 FWL / LAT 32.041	9623 /	LONG -103.9382766		SEC 13/T26S/R29	E/NMP			
At proposed prod. zone NENW / 330 FNL / 2310 FWL / L	AT 32.	0633291 / LONG -103.9	380201					
14. Distance in miles and direction from nearest town or post office 8.5 miles		12. County or Parish EDDY	1	13. State NM				
15. Distance from proposed* 330 feet location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No	o of acres in lease	17. Spacin 640.0	ng Unit dedicated to the	his well			
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>50 feet</li> </ol>		oposed Depth feet / 19118 feet	20. BLM/ FED: NN	'BIA Bond No. in file 1 1693				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2997 feet	22. Ap 01/18/	proximate date work will s 2022	start*	23. Estimated duration 60 days				
	24.	Attachments		1				
The following, completed in accordance with the requirements of (as applicable)	Onshor	e Oil and Gas Order No. 1	, and the H	Hydraulic Fracturing r	ule per 43	3 CFR 3162.3-3		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>		4. Bond to cover the Item 20 above).	e operation	as unless covered by ar	n existing	bond on file (see		
3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office				mation and/or plans as	may be r	equested by the		
25. Signature (Electronic Submission)		Name (Printed/Typed) BRADLEY BISHOP / Ph	: (575) 39	93-5905	Date 01/03/2	022		
Title Regulatory								
Approved by (Signature) (Electronic Submission)		Name (Printed/Typed) CODY LAYTON / Ph: (57	75) 234-59	959	Date 03/01/2	023		
Title Assistant Field Manager Lands & Minerals		Office Carlsbad Field Office			1			
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds l	legal or equitable title to th	ose rights	in the subject lease w	hich wou	ld entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					any depar	tment or agency		



(Continued on page 2)

62: Pho Dist 311 Pho Dist 000 Pho Dist	rict I 5 N. French Dr., Hobb ne: (575) 393-6161 Fr rict II S. First St., Artesia, N ne: (575) 748-1283 Fa rict III D. Rio Brazos Road, Az ne: (505) 334-6178 Fa rict IV D. S. St. Francis Dr., Sa ne: (505) 476-3460 Fa	xx: (575) 393-( M 88210 x: (575) 748-9 ttec, NM 8741 x: (505) 334-6 nta Fe, NM 87	0720 0 5170 7505	Energ		rals & Na CONSER 1220 Sor	tura RVA uth S	ew Mexico l Resources De TION DIVISIO St. Francis Dr. NM 87505		Su	Ibmit one	Form C-102 vised August 1, 2011 copy to appropriate District Office MENDED REPORT
			V	VELL L	OCATIC	N AND A	ACR	REAGE DEDIC	CATION PLA	Т		
	<sup>1</sup> API Number <sup>2</sup> Pool Code <sup>3</sup> Pool Name <b>30-015-5350898220PURPLE SAGE (WOLFCA</b>											AS
<sup>4</sup> Property Code <sup>5</sup> Property Name <sup>6</sup> We												Well Number <b>2H</b>
	<sup>7</sup> OGRID 147				MEW		rator N <b>OI</b>	lame L COMPANY				Elevation 2997'
						<sup>10</sup> Surf	ace ]	Location				
	UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet From the	East/W	est line	County
	K	13	26S	29E		2610	)	SOUTH	2255	WE	ST	EDDY
				11 ]	Bottom H	Iole Loca	tion	If Different Fr	om Surface			
	UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/W	est line	County
	C	12	26S	29E		330		NORTH	2310	WE	ST	EDDY
	12 Dedicated Acre	s <sup>13</sup> Joint	or Infill 14	Consolidation	Code 15	Order No.						
	480											

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.



•

Page 5

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 were section 1 - Plan Description         Section 1 - Plan Description         Effective May 25, 2021         I. Operator:       Mewbourne Oil Co.       OGRID:       14744       Date:       11/1/21         II. Type:       I 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:												
This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted were section 1 Plan Description <u>Section 1 Plan Description</u> <u>Effective May 25, 2021</u> I. Operator: <u>Mewbourne Oil Co.</u> OGRID: <u>14744</u> Date: <u>11/1/21</u> II. Type:       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:												
This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted were section 1 Plan Description <u>Section 1 Plan Description</u> <u>Effective May 25, 2021</u> I. Operator: <u>Mewbourne Oil Co.</u> OGRID: <u>14744</u> Date: <u>11/1/21</u> II. Type:       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:												
Section 1 Plan Description         Effective May 25, 2021         I. Operator:       Mewbourne Oil Co.       OGRID:       14744       Date:       11/1/21         II. Type:       Image: Imag												
<ul> <li>II. Type: X Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.</li> <li>If Other, please describe:</li></ul>												
If Other, please describe:												
III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed												
<b>III. Well(s):</b> Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.												
Well Name     API     ULSTR     Footages     Anticipated     Anticipated     Anticipated       Oil BBL/D     Gas MCF/D     Produced Water       BBL/D												
Fuller 13/12 W2FC Fed Com #2H         K 13 265 29E         2610' FSL x 2255' F         WL         1000         6000         10000												
IV. Central Delivery Point Name:Fuller 13/12 W2FC Fed Com #2H [See 19.15.27.9(D)(1) NMA												
V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled proposed to be recompleted from a single well pad or connected to a central delivery point.												
Well NameAPISpud DateTD Reached DateCompletionInitial FlowFirst Production DateWell NameAPISpud DateTD Reached DateCommencement DateBack DateFirst Production 												
Fuller 13/12 W2FC Fed Com #2H 1/6/22 2/1/22 3/1/22 3/16/22 3/16/22 3/16/22												
Fuller 13/12 W2FC Fed Com #2H       1/0/22       2/1/22       3/10/22       3/10/22       3/10/22         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.												

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

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

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

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

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

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

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

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

Page 7

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

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

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

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

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

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

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

# Section 4 - Notices

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

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

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

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

#### Page 8

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

Signature:	Bradley Bishop									
Printed Name:	BRADLEY BISHOP									
Title:	REGULATORY MANAGER									
E-mail Address:	BBISHOP@MEWBOURNE.COM									
Date:	11/1/21									
Phone:	575-393-5905									
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)										
Approved By:										
Title:										
Approval Date:										
Conditions of Ag	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.

#### Received by OCD: 3/2/2023 11:48:17 AM



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

APD ID: 10400081828

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 13/12 W2FC FED COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 01/03/2022 Well Number: 2H

Well Work Type: Drill

Highlighted data reflects the most recent changes

03/02/2023

Drilling Plan Data Report

Show Final Text

# **Section 1 - Geologic Formations**

Sec	ction 1 - Geologic	Formatio	ons				
Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
7824037	UNKNOWN	2997	28	28	OTHER : Top soil	NONE	N
7824041	RUSTLER	2437	560	560	ANHYDRITE, DOLOMITE	USEABLE WATER	N
7824028	TOP SALT	2097	900	900	SALT	NONE	N
7824030	BOTTOM SALT	44	2953	2953	LIMESTONE	NATURAL GAS, OIL	N
7824031	LAMAR	-183	3180	3180	SANDSTONE	NATURAL GAS, OIL	N
7824038	BELL CANYON	-213	3210	3210	SANDSTONE	NATURAL GAS, OIL	N
7824033	CHERRY CANYON	-1095	4092	4092	SANDSTONE	NATURAL GAS, OIL	N
7824034	MANZANITA	-1271	4268	4268	SANDSTONE	NATURAL GAS, OIL	N
7824035	BRUSHY CANYON	-3747	6744	6744	SANDSTONE	NATURAL GAS, OIL	N
7824043	BONE SPRING	-3981	6978	6978	LIMESTONE, SHALE	NATURAL GAS, OIL	N
7824044	BONE SPRING 1ST	-4904	7901	7901	SANDSTONE	NATURAL GAS, OIL	N
7824045	BONE SPRING 2ND	-5683	8680	8680	SANDSTONE	NATURAL GAS, OIL	N
7824046	BONE SPRING 3RD	-6835	9832	9832	SANDSTONE	NATURAL GAS, OIL	N
7824047	WOLFCAMP	-7204	10201	10201	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

**Section 2 - Blowout Prevention** 

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: FULLER 13/12 W2FC FED COM

Well Number: 2H

Pressure Rating (PSI): 5M

Rating Depth: 19118

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

#### Choke Diagram Attachment:

Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_Flex\_Line\_Specs\_20211229142442.pdf

Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_5M\_BOPE\_Choke\_Diagram\_20211229142442.pdf

Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_Flex\_Line\_Specs\_API\_16C\_20211229142442.pdf

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

Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_5M\_Mutli\_Bowl\_WH\_20211229142501.pdf

Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_5M\_BOPE\_Schematic\_20211229142501.pdf

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	635	0	635	2997	2362	635	H-40	48	ST&C	2.78	6.24	DRY	10.5 6	DRY	17.7 5
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3100	0	3100	2982	-103	3100	J-55	36	LT&C	1.25	2.18	DRY	4.06	DRY	5.05
-	PRODUCTI ON	8.75	7.0	NEW	API	N	0	11739	0	11410	2948	-8413	11739	P- 110	26	BUTT	1.36	1.73	DRY	29.6 2	DRY	35.4 7
4	LINER	6.12 5	4.5	NEW	API	N	10839	19118	10837	11440	-7840	-8443	8279	P- 110	13.5	LT&C	1.49	1.74	DRY	3.02	DRY	3.78

#### **Casing Attachments**

Received by OCD: 3/2/2023 11:48:17 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 13/12 W2FC FED COM

Well Number: 2H

#### **Casing Attachments**

Casing ID: 1 String	SURFACE											
Inspection Document:												
Spec Document:												
Tapered String Spec:												
Casing Design Assumptions and Worksheet(s):												
Fuller_13_12_W2FC_Fed_Com_2H_Csg_Assumptions_20211229142644.pdf												
Casing ID: 2 String	INTERMEDIATE											
Inspection Document:												
Spec Document:												
Tapered String Spec:												
Casing Design Assumptions and W	orksheet(s):											
Fuller_13_12_W2FC_Fed_Com	_2H_Csg_Assumptions_20211229142718.pdf											
Casing ID: 3 String	PRODUCTION											
Inspection Document:												
Spec Document:												
Tapered String Spec:												
Casing Design Assumptions and W	orksheet(s):											
Fuller_13_12_W2FC_Fed_Com	_2H_Csg_Assumptions_20211229142813.pdf											

Received by OCD: 3/2/2023 11:48:17 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 13/12 W2FC FED COM

Well Number: 2H

Page 12 of 46

#### **Casing Attachments**

Casing ID: 4 String LINER

Inspection Document:

Spec Document:

**Tapered String Spec:** 

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

 $Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_Csg\_Assumptions\_20211229142911.pdf$ 

### 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	442	290	2.12	12.5	615	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		442	635	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	2420	450	2.12	12.5	954	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		2420	3100	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3150	2900	3150	100	1.18	15.6	118	25	Class C	Salt, Gel, Extender, LCM

PRODUCTION	Lead	3150	3150	9232	540	1.34	14.8	1145	25	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		9232	1173 9	400	1.18	15.6	472	25	Class C	Retarder
LINER	Lead		1083 9	1911 8	330	2.97	11.2	980	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: FULLER 13/12 W2FC 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:** 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

O Top Depth	59 Bottom Depth	ady MM Sbor Wod	S Min Weight (lbs/gal)	🛱 Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
635	3100	SALT SATURATED	10	10							
3100	1173 9	WATER-BASED MUD	8.6	9.7							
1173 9	1911 8	OIL-BASED MUD	8.6	12							

# Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (10839') to surface.

#### 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, COMPENSATED NEUTRON LOG, GAMMA RAY LOG, **Coring operation description for the well:** 

None

Received by OCD: 3/2/2023 11:48:17 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 13/12 W2FC FED COM

Well Number: 2H

# **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 4630

Anticipated Surface Pressure: 2113

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\_13\_12\_W2FC\_Fed\_Com\_2H\_H2S\_Plan\_20211229143620.pdf

# **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

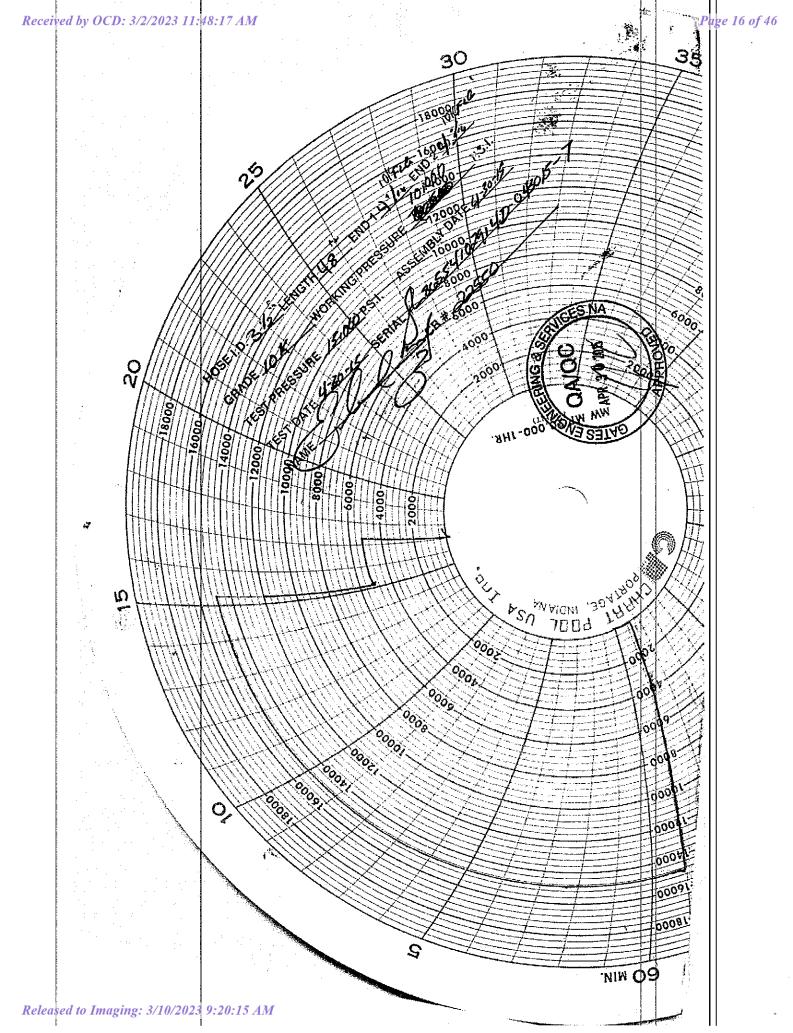
Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_Dir\_Plan\_20211229143647.pdf Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_Dir\_Plot\_20211229143647.pdf Other proposed operations facets description:

# Other proposed operations facets attachment:

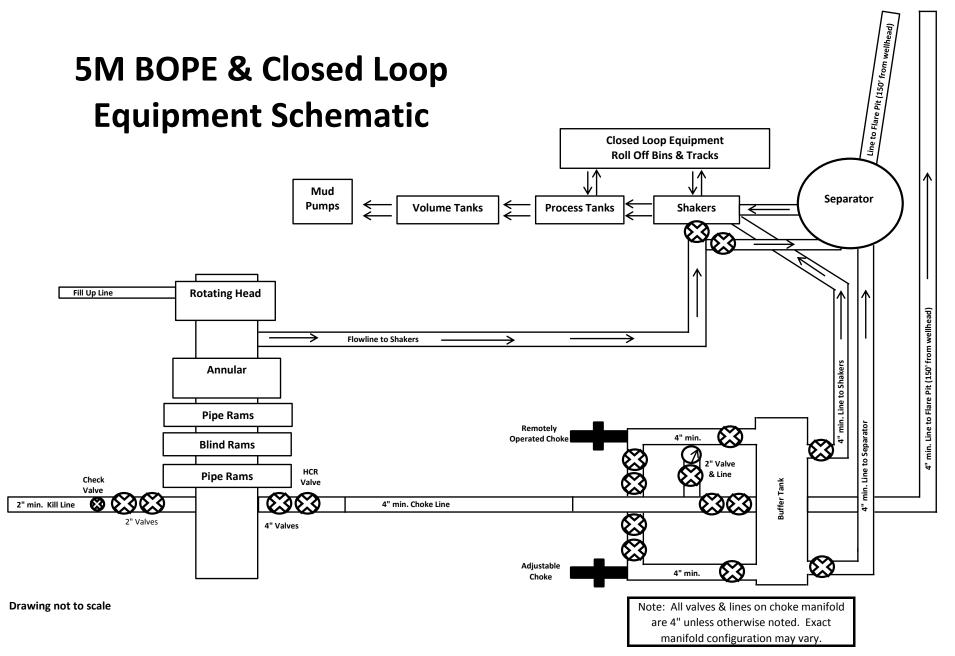
Fuller\_13\_12\_W2FC\_Fed\_Com\_2H\_Add\_Info\_20211229143654.pdf

#### Other Variance attachment:

GATES E & S NORT 134 44TH STREET				
CORPUS CHRISTI,			PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.col</i> WEB: www.gates.com	m
10K C	EMENTING ASSEMB	LY PRESSURE T	TEST CERTIFICATE	
Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015	
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7	
Invoice No. :	500506	Created By:	JUSTIN CROPPER	
		10K3.548.0CK4.1/1610KFL0	GE/E1E	
Product Description:	L	1063.548.0064.1/10106740		4
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG	<u>  </u>
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7	
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI	
the Gates Oil	field Roughneck Agreement/	Specification requirem	nose assembly has been tested to nents and passed the 15 minute	
the Gates Oil hydrostatic tesl	field Roughneck Agreement/ t per API Spec 7K/Q1, Fifth E in accordance with this prod	'Specification requirem Edition, June 2010, Te Juct 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 tesl	ifield Roughneck Agreement/ t per API Spec 7K/Q1, Fifth E	'Specification requirem Edition, June 2010, Te Juct 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 tesl	field Roughneck Agreement/ t per API Spec 7K/Q1, Fifth E in accordance with this prod	'Specification requirem Edition, June 2010, Te Juct 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 test to 15,000 psi Quality Manager : Date :	ifield Roughneck Agreement/ t per API Spec 7K/Q1, Fifth E in accordance with this prod minimum of 2.5 times	Specification requirem Edition, June 2010, Te Juct number. Hose but the working pressure Producton: 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 test to 15,000 psi	ifield Roughneck Agreement/ t per API Spec 7K/Q1, Fifth E in accordance with this prod minimum of 2.5 times	Specification requirem Edition, June 2010, Te Juct number. Hose but 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	
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the Gates Oil hydrostatic test to 15,000 psi Quality Manager : Date :	ifield Roughneck Agreement/ t per API Spec 7K/Q1, Fifth E in accordance with this prod minimum of 2.5 times	Specification requirem Edition, June 2010, Te Juct number. Hose but the working pressure Producton: 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	
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# Page 17 of 46





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

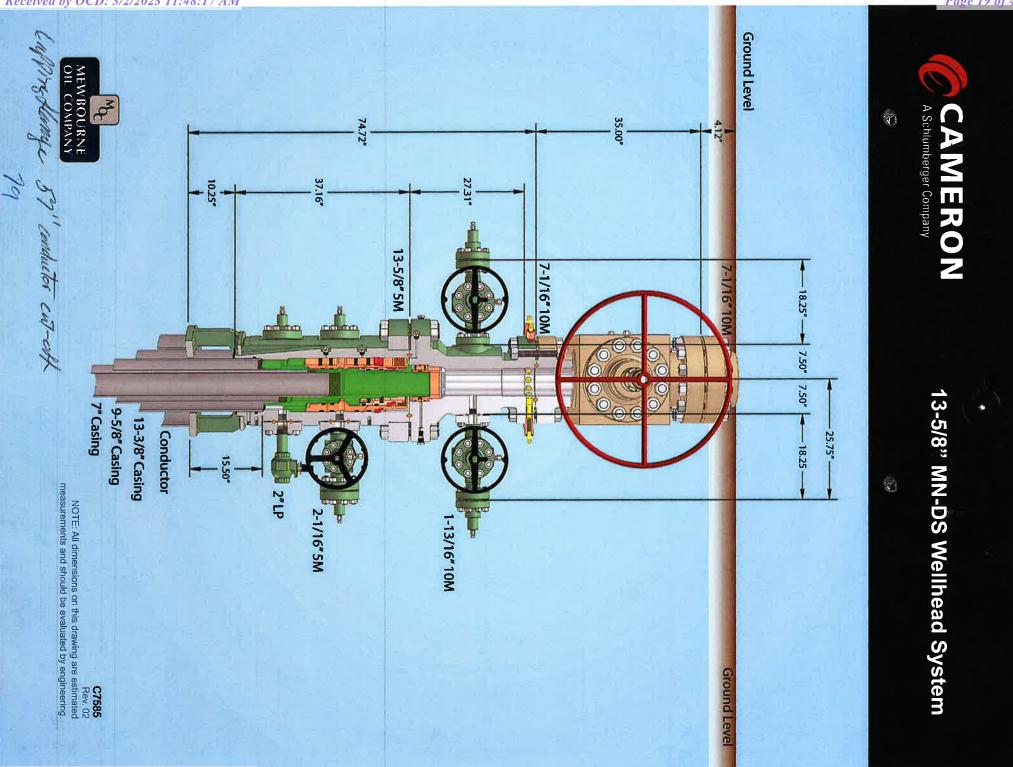
# **10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE**

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

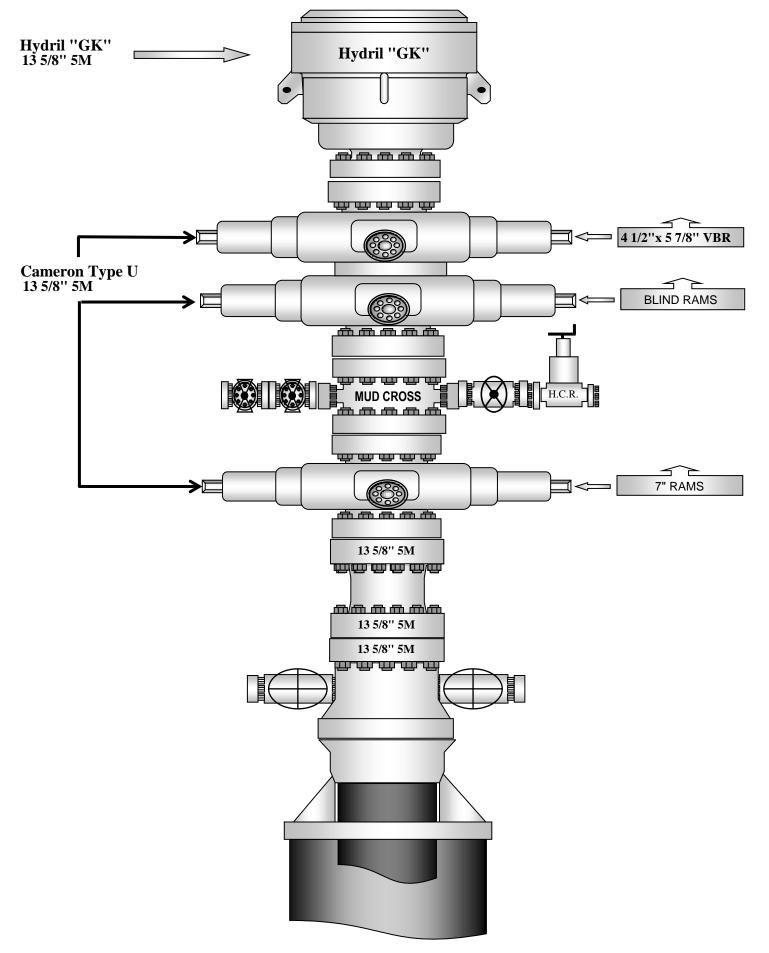




Released to Imaging: 3/10/2023 9:20:15 AM

#### Received by OCD: 3/2/2023 11:48:17 AM

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# **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'	635'	13.375"	48	H40	STC	2.78	6.24	10.56	17.75
12.25"	0'	3,100'	9.625"	36	J55	LTC	1.25	2.18	4.06	5.05
8.75"	0	11,739'	7"	26	HCP110	BTC	1.36	1.73	29.62	35.47
6.125"	10,839'	19,118'	4.5"	13.5	P110	LTC	1.49	1.74	3.02	3.78
				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 <sup>rd</sup> string cement tied back 500' into previous casing?	N
	NI
Is well located in R-111-P and SOPA? If yes, are the first three strings cemented to surface?	N
Is 2 <sup>nd</sup> 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**

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# **Mewbourne Oil Company**

Eddy County, New Mexico NAD 83 Fuller 13/12 W2FC Fed Com #2H Sec 13, T26S, R29E SHL: 2610' FSL & 2255' FWL (Sec 13) BHL: 330' FNL & 2310' FWL (Sec 12)

Plan: Design #1

# **Standard Planning Report**

29 December, 2021

Database: Company: Project: Site: Well: Wellbore: Design:	Eddy ( Fuller Sec 13	ourne Oil Comp County, New M 13/12 W2FC F 3, T26S, R29E 330' FNL & 231	exico NAD 83 ed Com #2H	2)	TVD Refer MD Refere North Ref	ence:		Site Fuller 13/12 W2FC Fed Com #2H WELL @ 3025.0usft (Original Well Elev) WELL @ 3025.0usft (Original Well Elev) Grid Minimum Curvature			
Project	Eddy C	ounty, New Me	xico NAD 83								
Map System: Geo Datum: Map Zone:	North Arr	e Plane 1983 nerican Datum kico Eastern Zo			System Dat	tum:	Gr	ound Level			
Site	Fuller 1	3/12 W2FC Fe	d Com #2H								
Site Position: From: Position Uncertaint	Map t <b>y:</b>	0.0 u	Northi Eastin Isft Slot R	g:	663,	228.00 usft 745.00 usft 3-3/16 "	Latitude: Longitude:			32.0419623 -103.9382766	
Well	Sec 13,	T26S, R29E									
Well Position Position Uncertaint Grid Convergence:	+N/-S 0.0 usft Northing: +E/-W 0.0 usft Easting: y 0.0 usft Wellhead Elevation 0.21 °				ion:	379,228.00 663,745.00 3,025.0	usft Lor	itude: igitude: und Level:		32.0419623 -103.9382766 2,997.0 ust	
Wellbore	BHL: 3	30' FNL & 231	0' FWL (Sec 12	:)							
Magnetics	Мо	del Name	Sample	e Date	Declina (°)	ition	Dip A (°	-		Strength nT)	
		IGRF2010	1	2/31/2014		7.30		59.87	48,	091.11562235	
Design	Design	#1									
Audit Notes:				-			0.0.1				
Version:			Phase		ROTOTYPE		On Depth:		0.0		
Vertical Section:		D	epth From (TV (usft)	′D)	+N/-S (usft)		:/-W sft)	Dir	ection (°)		
			0.0		0.0	-	0.0	(	0.38		
Plan Survey Tool P Depth From (usft) 1 0.0	Depti (us	h To ft) Survey	12/29/2021 <b>(Wellbore)</b> #1 (BHL: 330'	=NL & 2310	Tool Name		Remarks				
Plan Sections Measured Depth Inc (usft)	lination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.0 3,100.0 3,170.1 10,769.2	0.00 0.00 1.40 1.40	0.00 0.00 162.63 162.63	0.0 3,100.0 3,170.1 10,766.9	0.0 0.0 -0.8 -178.2	0.0 0.0 0.3 55.7	0.00 0.00 2.00 0.00	0.00 0.00 2.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 162.63 0.00		
10,839.3 11,737.0 19,118.4	0.00 89.77 89.77	0.00 359.96 359.96	10,837.0 11,410.0 11,440.0	-179.0 391.7 7,773.0	56.0 55.6 51.0	2.00 10.00 0.00	-2.00 10.00 0.00	0.00 0.00 0.00	-0.04	KOP: 2431' FSL & 23 BHL: 330' FNL & 2310	

12/29/2021 9:50:49AM

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/12 W2FC Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3025.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3025.0usft (Original Well Elev)
Site:	Fuller 13/12 W2FC Fed Com #2H	North Reference:	Grid
Well:	Sec 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2310' FWL (Sec 12)		
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
SHL: 2610' F	SL & 2255' FWL	. (Sec 13)							
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
800.0	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
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,170.1	1.40	162.63	3,170.1	-0.8	0.3	-0.8	2.00	2.00	0.00
3,200.0	1.40	162.63	3,200.0	-1.5	0.5	-1.5	0.00	0.00	0.00
3,300.0	1.40	162.63	3,300.0	-3.9	1.2	-3.8	0.00	0.00	0.00
3,400.0	1.40	162.63	3,399.9	-6.2	1.9	-6.2	0.00	0.00	0.00
3,500.0	1.40	162.63	3,499.9	-8.5	2.7	-8.5	0.00	0.00	0.00
3,600.0	1.40	162.63	3,599.9	-10.9	3.4	-10.8	0.00	0.00	0.00
3,700.0	1.40	162.63	3,699.8	-13.2	4.1	-13.2	0.00	0.00	0.00
3,800.0	1.40	162.63	3,799.8	-15.5	4.9	-15.5	0.00	0.00	0.00
3,900.0	1.40	162.63	3,899.8	-17.9	5.6	-17.8	0.00	0.00	0.00
4,000.0	1.40	162.63	3,999.7	-20.2	6.3	-20.1	0.00	0.00	0.00
4,100.0	1.40	162.63	4,099.7	-22.5	7.0	-22.5	0.00	0.00	0.00
4,200.0	1.40	162.63	4,199.7	-24.9	7.8	-24.8	0.00	0.00	0.00
4,300.0	1.40	162.63	4,299.7	-27.2	8.5	-27.1	0.00	0.00	0.00
4,400.0	1.40	162.63	4,399.6	-29.5	9.2	-29.5	0.00	0.00	0.00
4,500.0	1.40	162.63	4,499.6	-31.9	10.0	-31.8	0.00	0.00	0.00
4,600.0	1.40	162.63	4,599.6	-34.2	10.7	-34.1	0.00	0.00	0.00
4,700.0	1.40	162.63	4,699.5	-36.5	11.4	-36.5	0.00	0.00	0.00
4,800.0	1.40	162.63	4,799.5	-38.9	12.2	-38.8	0.00	0.00	0.00
4,900.0	1.40	162.63	4.899.5	-41.2	12.9	-41.1	0.00	0.00	0.00
5,000.0	1.40	162.63	4,999.4	-43.5	13.6	-43.4	0.00	0.00	0.00
5,100.0	1.40	162.63	5,099.4	-45.9	14.3	-45.8	0.00	0.00	0.00

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COMPASS 5000.16 Build 97

Hobbs	Local Co-ordinate Reference:	Site Fuller 13/12 W2FC Fed Com #2H
Mewbourne Oil Company	TVD Reference:	WELL @ 3025.0usft (Original Well Elev)
Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3025.0usft (Original Well Elev)
Fuller 13/12 W2FC Fed Com #2H	North Reference:	Grid
Sec 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
BHL: 330' FNL & 2310' FWL (Sec 12)		
Design #1		
	Mewbourne Oil Company Eddy County, New Mexico NAD 83 Fuller 13/12 W2FC Fed Com #2H Sec 13, T26S, R29E BHL: 330' FNL & 2310' FWL (Sec 12)	Mewbourne Oil Company     TVD Reference:       Eddy County, New Mexico NAD 83     MD Reference:       Fuller 13/12 W2FC Fed Com #2H     North Reference:       Sec 13, T26S, R29E     Survey Calculation Method:       BHL: 330' FNL & 2310' FWL (Sec 12)     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)
5,200.0	1.40	162.63	5,199.4	-48.2	15.1	-48.1	0.00	0.00	0.00
5,300.0	1.40	162.63	5,299.4	-50.5	15.8	-50.4	0.00	0.00	0.00
			,						
5,400.0	1.40	162.63	5,399.3	-52.9	16.5	-52.8	0.00	0.00	0.00
5,500.0	1.40	162.63	5,499.3	-55.2	17.3	-55.1	0.00	0.00	0.00
5,600.0	1.40	162.63	5,599.3	-57.5	18.0	-57.4	0.00	0.00	0.00
5,700.0	1.40	162.63	5,699.2	-59.9	18.7	-59.7	0.00	0.00	0.00
5,800.0	1.40	162.63	5,799.2	-62.2	19.5	-62.1	0.00	0.00	0.00
5.900.0	1.40	162.63	5,899.2	-64.5	20.2	-64.4	0.00	0.00	0.00
6,000.0	1.40	162.63	5,999.1	-66.9	20.9	-66.7	0.00	0.00	0.00
6,100.0	1.40	162.63	6,099.1	-69.2	21.6	-69.1	0.00	0.00	0.00
6,200.0	1.40	162.63	6,199.1	-71.5	22.4	-71.4	0.00	0.00	0.00
6,300.0	1.40	162.63	6,299.1	-73.9	23.1	-73.7	0.00	0.00	0.00
6,400.0	1.40	162.63	6,399.0	-76.2	23.8	-76.0	0.00	0.00	0.00
6,500.0	1.40	162.63	6,499.0	-78.5	24.6	-78.4	0.00	0.00	0.00
6,600.0	1.40	162.63	6,599.0	-80.9	25.3	-80.7	0.00	0.00	0.00
6,700.0	1.40	162.63	6,698.9	-83.2	26.0	-83.0	0.00	0.00	0.00
6,800.0	1.40	162.63	6,798.9	-85.5	26.8	-85.4	0.00	0.00	0.00
6,900.0	1.40	162.63	6,898.9	-87.9	27.5	-87.7	0.00	0.00	0.00
7,000.0	1.40	162.63	6,998.8	-90.2	28.2	-90.0	0.00	0.00	0.00
7,100.0	1.40	162.63	7,098.8	-92.5	29.0	-92.4	0.00	0.00	0.00
7,200.0	1.40	162.63	7,198.8	-94.9	29.7	-94.7	0.00	0.00	0.00
7,300.0	1.40	162.63	7,298.8	-97.2	30.4	-97.0	0.00	0.00	0.00
7,400.0	1.40	162.63	7,398.7	-99.5	31.1	-99.3	0.00	0.00	0.00
7,500.0	1.40	162.63	7,498.7	-101.9	31.9	-101.7	0.00	0.00	0.00
7,600.0	1.40	162.63	7,598.7	-104.2	32.6	-104.0	0.00	0.00	0.00
7,700.0	1.40	162.63	7,698.6	-104.2	33.3	-104.0	0.00	0.00	0.00
7,800.0	1.40	162.63	7,798.6	-108.9	34.1	-100.3	0.00	0.00	0.00
7,900.0	1.40	162.63	7,898.6	-111.2	34.8	-111.0	0.00	0.00	0.00
8,000.0	1.40	162.63	7,998.5	-113.5	35.5	-113.3	0.00	0.00	0.00
8,100.0	1.40	162.63	8,098.5	-115.9	36.3	-115.6	0.00	0.00	0.00
8,200.0	1.40	162.63	8,198.5	-118.2	37.0	-118.0	0.00	0.00	0.00
8,300.0	1.40	162.63	8,298.5	-120.6	37.7	-120.3	0.00	0.00	0.00
8,400.0	1.40	162.63	8,398.4	-122.9	38.4	-122.6	0.00	0.00	0.00
8,500.0	1.40	162.63	8,498.4	-125.2	39.2	-125.0	0.00	0.00	0.00
8,600.0	1.40	162.63	8,598.4	-127.6	39.9	-127.3	0.00	0.00	0.00
8,700.0	1.40	162.63	8,698.3	-129.9	40.6	-129.6	0.00	0.00	0.00
8,800.0	1.40	162.63	8,798.3	-132.2	41.4	-131.9	0.00	0.00	0.00
8,900.0	1.40	162.63	8,898.3	-134.6	42.1	-134.3	0.00	0.00	0.00
9,000.0	1.40	162.63	8,998.2	-136.9	42.8	-136.6	0.00	0.00	0.00
9,100.0	1.40	162.63	9,098.2	-139.2	43.6	-138.9	0.00	0.00	0.00
9,200.0	1.40	162.63	9,198.2	-141.6	44.3	-141.3	0.00	0.00	0.00
9,200.0	1.40	162.63	9,198.2 9,298.2	-141.0	44.3	-141.3	0.00	0.00	0.00
9,400.0	1.40	162.63	9,398.1	-146.2	45.7	-145.9	0.00	0.00	0.00
9,500.0	1.40	162.63	9,498.1	-148.6	46.5	-148.3	0.00	0.00	0.00
9,600.0	1.40	162.63	9,598.1	-150.9	47.2	-150.6	0.00	0.00	0.00
9,700.0	1.40	162.63	9,698.0	-153.2	47.9	-152.9	0.00	0.00	0.00
9,800.0	1.40	162.63	9,798.0	-155.6	48.7	-155.2	0.00	0.00	0.00
9,900.0	1.40	162.63	9,898.0	-157.9	49.4	-157.6	0.00	0.00	0.00
10,000.0	1.40	162.63	9,998.0	-160.2	50.1	-159.9	0.00	0.00	0.00
10,100.0	1.40	162.63	10,097.9	-162.6	50.9	-162.2	0.00	0.00	0.00
10,200.0	1.40	162.63	10,197.9	-164.9	51.6	-164.6	0.00	0.00	0.00
10,300.0	1.40	162.63	10,297.9	-167.2	52.3	-166.9	0.00	0.00	0.00
10,400.0	1.40	162.63	10,397.8	-169.6	53.0	-169.2	0.00	0.00	0.00
10,400.0	1.40	162.63	10,397.8	-169.6 -171.9	53.0 53.8	-169.2	0.00	0.00	0.00

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COMPASS 5000.16 Build 97

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/12 W2FC Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3025.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3025.0usft (Original Well Elev)
Site:	Fuller 13/12 W2FC Fed Com #2H	North Reference:	Grid
Well:	Sec 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2310' FWL (Sec 12)		
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)
10,600.0	1.40	162.63	10,597.8	-174.2	54.5	-173.9	0.00	0.00	0.00
10,700.0	1.40	162.63	10,697.7	-176.6	55.2	-176.2	0.00	0.00	0.00
10,769.2	1.40	162.63	10,766.9	-178.2	55.7	-177.8	0.00	0.00	0.00
10,800.0	0.79	162.63	10,797.7	-178.7	55.9	-178.4	2.00	-2.00	0.00
10,839.3	0.00	0.00	10,837.0	-179.0	56.0	-178.6	2.00	-2.00	0.00
	FSL & 2310' FWL								
10,850.0	1.07	359.96	10,847.7	-178.9	56.0	-178.5	10.00	10.00	0.00
10,900.0	6.07	359.96	10,897.6	-175.8	56.0	-175.4	10.00	10.00	0.00
10,950.0	11.07	359.96	10,947.0	-168.3	56.0	-168.0	10.00	10.00	0.00
11,000.0	16.07	359.96	10,995.6	-156.6	56.0	-156.2	10.00	10.00	0.00
11,050.0	21.07	359.96	11,043.0	-140.7	56.0	-140.3	10.00	10.00	0.00
11,100.0	26.07	359.96	11,088.8	-120.7	56.0	-120.3	10.00	10.00	0.00
11,150.0	31.07	359.96	11,132.7	-96.8	55.9	-96.4	10.00	10.00	0.00
11,200.0	36.07	359.96	11,174.4	-69.2	55.9	-68.8	10.00	10.00	0.00
11,250.0	41.07	359.96	11,213.4	-38.0	55.9	-37.6	10.00	10.00	0.00
11,300.0	46.07	359.96	11,249.7	-3.6	55.9	-3.2	10.00	10.00	0.00
11,350.0	51.07	359.96	11,282.7	33.9	55.9	34.3	10.00	10.00	0.00
11,400.0	56.07	359.96	11,312.4	74.1	55.8	74.5	10.00	10.00	0.00
11,450.0	61.07	359.96	11,338.5	116.8	55.8	117.2	10.00	10.00	0.00
11,500.0	66.07	359.96	11,360.7	161.5	55.8	161.9	10.00	10.00	0.00
11,550.0	71.07	359.96	11,379.0	208.1	55.8	208.4	10.00	10.00	0.00
11,600.0	76.07	359.96	11,393.1	256.0	55.7	256.4	10.00	10.00	0.00
11,650.0	81.06	359.96	11,403.1	305.0	55.7	305.4	10.00	10.00	0.00
11,700.0	86.06	359.96	11,408.7	354.7	55.7	355.0	10.00	10.00	0.00
11,737.0	89.77	359.96	11,410.0	391.7	55.6	392.0	10.00	10.00	0.00
11,739.4	89.77	359.96	11,410.0	394.0	55.6	394.4	0.00	0.00	0.00
	6' FNL & 2310' F	• •							
11,800.0	89.77	359.96	11,410.3	454.6	55.6	455.0	0.00	0.00	0.00
11,900.0	89.77	359.96	11,410.7	554.6	55.5	555.0	0.00	0.00	0.00
12,000.0	89.77	359.96	11,411.1	654.6	55.5	655.0	0.00	0.00	0.00
12,100.0	89.77	359.96	11,411.5	754.6	55.4	755.0	0.00	0.00	0.00
12,200.0	89.77	359.96	11,411.9	854.6	55.4	855.0	0.00	0.00	0.00
12,300.0	89.77	359.96	11,412.3	954.6	55.3	955.0	0.00	0.00	0.00
12,400.0	89.77	359.96	11,412.7	1,054.6	55.2	1,055.0	0.00	0.00	0.00
12,500.0	89.77	359.96	11,413.1	1,154.6	55.2	1,155.0	0.00	0.00	0.00
12,600.0	89.77	359.96	11,413.5	1,254.6	55.1	1,255.0	0.00	0.00	0.00
12,700.0	89.77	359.96	11,413.9	1,354.6	55.0	1,355.0	0.00	0.00	0.00
12,800.0	89.77	359.96	11,414.3	1,454.6	55.0	1,455.0	0.00	0.00	0.00
12,900.0	89.77	359.96	11,414.7	1,554.6	54.9	1,555.0	0.00	0.00	0.00
13,000.0	89.77	359.96	11,415.1	1,654.6	54.8	1,655.0	0.00	0.00	0.00
13,100.0	89.77	359.96	11,415.5	1,754.6	54.8	1,755.0	0.00	0.00	0.00
13,200.0	89.77	359.96	11,415.9	1,854.6	54.7	1,855.0	0.00	0.00	0.00
13,300.0	89.77	359.96	11,416.4	1,954.6	54.7	1,954.9	0.00	0.00	0.00
13,400.0	89.77	359.96	11,416.8	2,054.6	54.6	2,054.9	0.00	0.00	0.00
13,500.0	89.77	359.96	11,417.2	2,154.6	54.5	2,154.9	0.00	0.00	0.00
13,600.0	89.77	359.96	11,417.6	2,254.6	54.5	2,254.9	0.00	0.00	0.00
13,700.0	89.77	359.96	11,418.0	2,354.6	54.4	2,354.9	0.00	0.00	0.00
13,800.0	89.77	359.96	11,418.4	2,454.6	54.3	2,454.9	0.00	0.00	0.00
13,900.0	89.77	359.96	11,418.8	2,554.6	54.3	2,554.9	0.00	0.00	0.00
14,000.0	89.77	359.96	11,419.2	2,654.6	54.2	2,654.9	0.00	0.00	0.00
14,085.4	89.77	359.96	11,419.5	2,740.0	54.2	2,740.3	0.00	0.00	0.00
	L & 2310' FWL (S		,	,		,			
	89.77	359.96	11,419.6	2,754.6	54.2	2,754.9	0.00	0.00	0.00

COMPASS 5000.16 Build 97

inate Reference: Site Fuller 13/12 W2FC Fed Com #2H
ce: WELL @ 3025.0usft (Original Well Elev)
e: WELL @ 3025.0usft (Original Well Elev)
nce: Grid
Ilation Method: Minimum Curvature

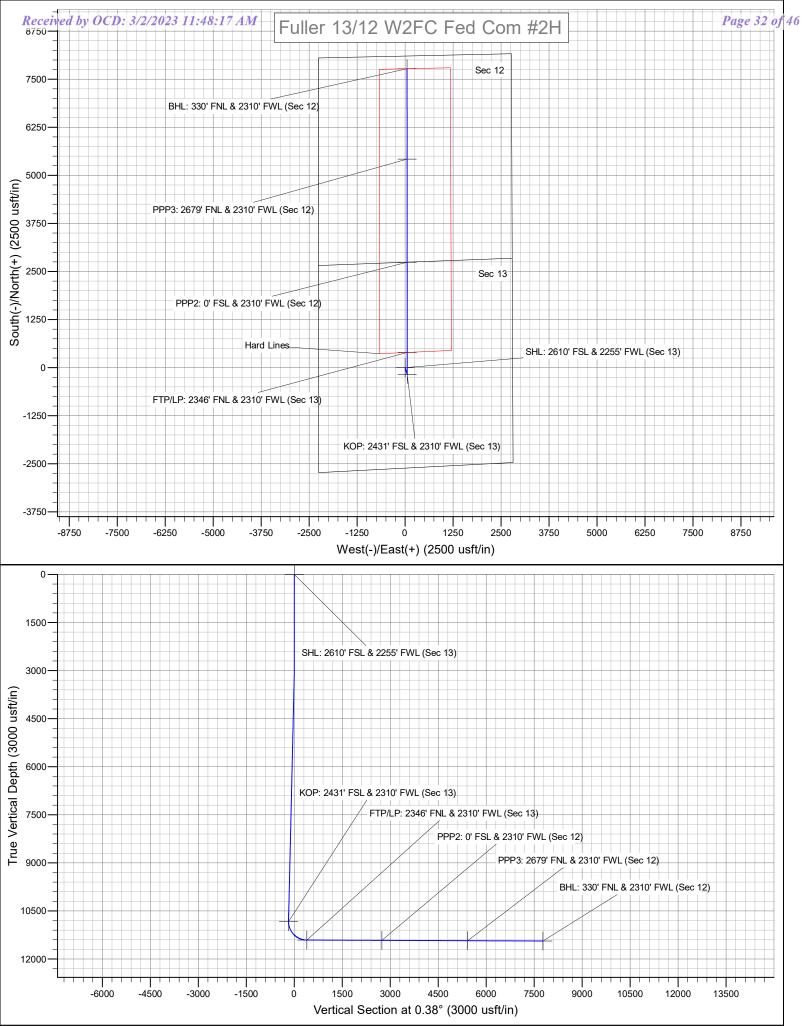
Planned Survey

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	89.77	359.96	11,420.0	2,854.6	54.1	2,854.9	0.00	0.00	0.00
14,300.0	89.77	359.96	11,420.4	2,954.6	54.0	2,954.9	0.00	0.00	0.00
14,400.0	89.77	359.96	11,420.8	3,054.6	54.0	3,054.9	0.00	0.00	0.00
14,500.0	89.77	359.96	11,421.2	3,154.6	53.9	3,154.9	0.00	0.00	0.00
14,600.0	89.77	359.96	11,421.6	3,254.6	53.8	3,254.9	0.00	0.00	0.00
14,700.0	89.77	359.96	11,422.0	3,354.6	53.8	3,354.9	0.00	0.00	0.00
14,800.0	89.77	359.96	11,422.0	3,454.6		3,354.9	0.00	0.00	0.00
	89.77	359.96			53.7			0.00	0.00
14,900.0			11,422.9	3,554.6	53.7	3,554.9	0.00		
15,000.0	89.77	359.96	11,423.3	3,654.6	53.6	3,654.9	0.00	0.00	0.00
15,100.0	89.77	359.96	11,423.7	3,754.6	53.5	3,754.9	0.00	0.00	0.00
15,200.0	89.77	359.96	11,424.1	3,854.6	53.5	3,854.9	0.00	0.00	0.00
15,300.0	89.77	359.96	11,424.5	3,954.6	53.4	3,954.9	0.00	0.00	0.00
15,400.0	89.77	359.96	11,424.9	4,054.6	53.3	4,054.9	0.00	0.00	0.00
15,500.0	89.77	359.96	11,425.3	4,154.6	53.3	4,154.9	0.00	0.00	0.00
15,600.0	89.77	359.96	11,425.7	4,254.6	53.2	4,254.9	0.00	0.00	0.00
15,700.0	89.77	359.96	11,426.1	4,354.6	53.1	4,354.9	0.00	0.00	0.00
15,800.0	89.77	359.96	11,426.5	4,454.6	53.1	4,454.9	0.00	0.00	0.00
15,900.0	89.77	359.96	11,426.9	4,554.6	53.0	4,554.9	0.00	0.00	0.00
16,000.0	89.77	359.96	11,427.3	4,654.6	53.0	4,654.9	0.00	0.00	0.00
16,100.0	89.77	359.96	11,427.7	4,754.6	52.9	4,754.9	0.00	0.00	0.00
16,200.0	89.77	359.96	11,428.1	4,854.6	52.8	4,854.8	0.00	0.00	0.00
16,300.0	89.77	359.96	11,428.5	4,954.6	52.8	4,954.8	0.00	0.00	0.00
16,400.0	89.77	359.96	11,429.0	5,054.6	52.7	5,054.8	0.00	0.00	0.00
,									
16,500.0	89.77	359.96	11,429.4	5,154.6	52.6	5,154.8	0.00	0.00	0.00
16,600.0	89.77	359.96	11,429.8	5,254.6	52.6	5,254.8	0.00	0.00	0.00
16,700.0	89.77	359.96	11,430.2	5,354.6	52.5	5,354.8	0.00	0.00	0.00
16,768.4	89.77	359.96	11,430.4	5,423.0	52.5	5,423.2	0.00	0.00	0.00
	FNL & 2310' FW		44,400,0		50.5		0.00	0.00	0.00
16,800.0	89.77	359.96	11,430.6	5,454.6	52.5	5,454.8	0.00	0.00	0.00
16,900.0	89.77	359.96	11,431.0	5,554.6	52.4	5,554.8	0.00	0.00	0.00
17,000.0	89.77	359.96	11,431.4	5,654.6	52.3	5,654.8	0.00	0.00	0.00
17,100.0	89.77	359.96	11,431.8	5,754.6	52.3	5,754.8	0.00	0.00	0.00
17,200.0	89.77	359.96	11,432.2	5,854.6	52.2	5,854.8	0.00	0.00	0.00
17,300.0	89.77	359.96	11,432.6	5,954.6	52.1	5,954.8	0.00	0.00	0.00
17,400.0	89.77	359.96	11,433.0	6,054.6	52.1	6,054.8	0.00	0.00	0.00
17,500.0	89.77	359.96	11,433.4	6,154.6	52.0	6,154.8	0.00	0.00	0.00
17,600.0	89.77	359.96	11,433.8	6,254.6	52.0	6,254.8	0.00	0.00	0.00
17,700.0	89.77	359.96	11,434.2	6,354.6	51.9	6,354.8	0.00	0.00	0.00
17,800.0	89.77	359.96	11,434.6	6,454.6	51.8	6,454.8	0.00	0.00	0.00
17,900.0	89.77	359.96	11,435.0	6,554.6	51.8	6,554.8	0.00	0.00	0.00
18,000.0	89.77	359.96	11,435.5	6,654.6	51.7	6,654.8	0.00	0.00	0.00
18,100.0	89.77	359.96	11,435.9	6,754.6	51.6	6,754.8	0.00	0.00	0.00
18,200.0	89.77	359.96	11,436.3	6,854.6	51.6	6,854.8	0.00	0.00	0.00
18,300.0	89.77	359.96	11,436.7	6,954.6	51.5	6,954.8	0.00	0.00	0.00
18,400.0 18,500.0	89.77 89.77	359.96 359.96	11,437.1 11,437.5	7,054.6 7,154.6	51.5 51.4	7,054.8 7,154.8	0.00 0.00	0.00 0.00	0.00 0.00
18,500.0	89.77	359.96	11,437.5	7,154.6	51.4	7,154.8	0.00	0.00	0.00
18,600.0	89.77		11,437.9			7,254.8 7,354.8			
		359.96		7,354.6	51.3		0.00	0.00	0.00
18,800.0	89.77	359.96	11,438.7	7,454.6	51.2	7,454.8	0.00	0.00	0.00
18,900.0	89.77	359.96	11,439.1	7,554.6	51.1	7,554.8	0.00	0.00	0.00
19,000.0	89.77	359.96	11,439.5	7,654.6	51.1	7,654.8	0.00	0.00	0.00
19,100.0	89.77	359.96	11,439.9	7,754.6	51.0	7,754.7	0.00	0.00	0.00
19,118.4	89.77	359.96	11,440.0	7,773.0	51.0	7,773.2	0.00	0.00	0.00

12/29/2021 9:50:49AM

Database: Company: Project: Site: Well: Wellbore: Design:	HobbsLocal Co-ordinate Reference:Mewbourne Oil CompanyTVD Reference:Eddy County, New Mexico NAD 83MD Reference:Fuller 13/12 W2FC Fed Com #2HNorth Reference:Sec 13, T26S, R29ESurvey Calculation Method:BHL: 330' FNL & 2310' FWL (Sec 12)Survey Calculation Method:			Site Fuller 13/12 W2FC Fed Com #2H WELL @ 3025.0usft (Original Well Elev) WELL @ 3025.0usft (Original Well Elev) Grid Minimum Curvature						
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)
Design Targets Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northir (usft)	-	Easting (usft)	Latitude	Longitude
SHL: 2610' FSL & 2255 - plan hits target ce - Point		0.00	0.0	0.0	0.0	379,2	228.00	663,745.00	32.0419623	-103.9382766
KOP: 2431' FSL & 2310 - plan hits target ce - Point		0.00	10,837.0	-179.0	56.0	379,0	049.00	663,801.00	32.0414697	-103.9380979
FTP/LP: 2346' FNL & 2 - plan hits target ce - Point		0.00	11,410.0	394.0	55.6	379,6	622.00	663,800.64	32.0430448	-103.9380923
PPP2: 0' FSL & 2310' F - plan hits target ce - Point		0.00	11,419.5	2,740.0	54.2	381,9	968.00	663,799.17	32.0494938	-103.9380694
PPP3: 2679' FNL & 23 <sup>.</sup> - plan hits target ce - Point		0.00	11,430.4	5,423.0	52.5	384,6	651.00	663,797.48	32.0568691	-103.9380431
BHL: 330' FNL & 2310' - plan hits target ce - Point		0.00	11,440.0	7,773.0	51.0	387,0	001.00	663,796.00	32.0633291	-103.9380201





.

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Fuller 13/12 W2FC Fed Com	2H

Kick Off Point (KOP)

∪L K	Section 13	Township 26S	Range 29E	Lot	Feet 2431	From N/S S	Feet 2310	From E/W	County Eddy
Latitu	Latitude						NAD		
32.0	32.0414697				-103.938	30979	83		

First Take Point (FTP)

UL Section F 13	Township 26S	Range 29E	Lot	Feet 2346	From N/S N	Feet 2310	From E/W	County Eddy
Latitude			Longitude -103.9380923			NAD 83		

Last Take Point (LTP)

UL C	Section 12	Township 26S	Range 29E	Lot	Feet <b>330</b>	From N/S <b>N</b>	Feet 2310	From E/W	County Eddy
Latitu	de				Longitud	le			NAD
32.0	)63329	91			-103.9	9380201	1		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

<b>OPERATOR'S NAME:</b>	Mewbourne Oil Company
LEASE NO.:	NMLC061497
WELL NAME & NO.:	FULLER 13-12 W2FC FED COM 2H
SURFACE HOLE FOOTAGE:	2610'/S & 2255'/W
<b>BOTTOM HOLE FOOTAGE</b>	330'/N & 2310'/W
LOCATION:	Section 13, 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	C Low	Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	O 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

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 **635** 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.

Page 1 of 8

- 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 **3,100** feet is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Excess cement calculates to 21%, additional cement might be required.
  - 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:

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

 Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
 Excess cement calculates to -10%, additional cement might be required.

# **Option 2:**

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

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

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

# C. PRESSURE CONTROL

## 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

- 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 **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 Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

# **GENERAL REQUIREMENTS**

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

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

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

Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

# 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 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

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

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### Approval Date: 03/01/2023

# 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.

# OTA02172023

**Approval Date: 03/01/2023** 

#### 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 <sup>nd</sup> Fax	575-393-5905 575-397-6252 575-393-7259
District Manager	<b>Robin Terrell</b>	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 13/12 W2FC FED COM

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

Well Name: FULLER 13/12 W2FC FED COM

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:

Fuller13\_12W2FCFedCom2H\_wellsitelayout\_20211118142823.pdf

Comments:

# **Section 10 - Plans for Surface**

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Fuller 13/12 H3FC W2FC B2FC Fed Com wells Multiple Well Pad Number: 5

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	192440
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require a name change complying with OCD policy prior to putting the well into production.	3/9/2023
kpickford	Notify OCD 24 hours prior to casing & cement	3/9/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/9/2023
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	3/9/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/9/2023
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	3/9/2023

Action 192440