

Form 3160-3
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMLC061497
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator MEWBOURNE OIL COMPANY		8. Lease Name and Well No. FULLER 13/24 W2KN FED COM
3a. Address P O BOX 5270, HOBBS, NM 88241		9. API Well No. 30-015-53719
3b. Phone No. (include area code) (575) 393-5905		10. Field and Pool, or Exploratory PURPLE SAGE/PURPLE SAGE (WOLFC
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENW / 2500 FNL / 2275 FWL / LAT 32.0426188 / LONG -103.9382056 At proposed prod. zone SESW / 330 FSL / 2200 FWL / LAT 32.0209765 / LONG -103.9385468		11. Sec., T. R. M. or Blk. and Survey or Area SEC 13/T26S/R29E/NMP
14. Distance in miles and direction from nearest town or post office* 8.5 miles		12. County or Parish EDDY
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet		13. State NM
16. No of acres in lease		17. Spacing Unit dedicated to this well 640.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 50 feet		20. BLM/BIA Bond No. in file FED: NM 1693
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3001 feet		22. Approximate date work will start* 01/16/2022
		23. Estimated duration 60 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) BRADLEY BISHOP / Ph: (575) 393-5905	Date 11/29/2021
Title Regulatory		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 04/07/2023
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the 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, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

Accepted for record – NMOCD

JRH

04/20/2023

(Continued on page 2)

*(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-53719	² Pool Code 98220	³ Pool Name PURPLE SAGE (WOLFCAMP) GAS
⁴ Property Code 333930	⁵ Property Name FULLER 13/24 W2KN FED COM	⁶ Well Number 2H
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁹ Elevation 3001'

¹⁰ Surface Location

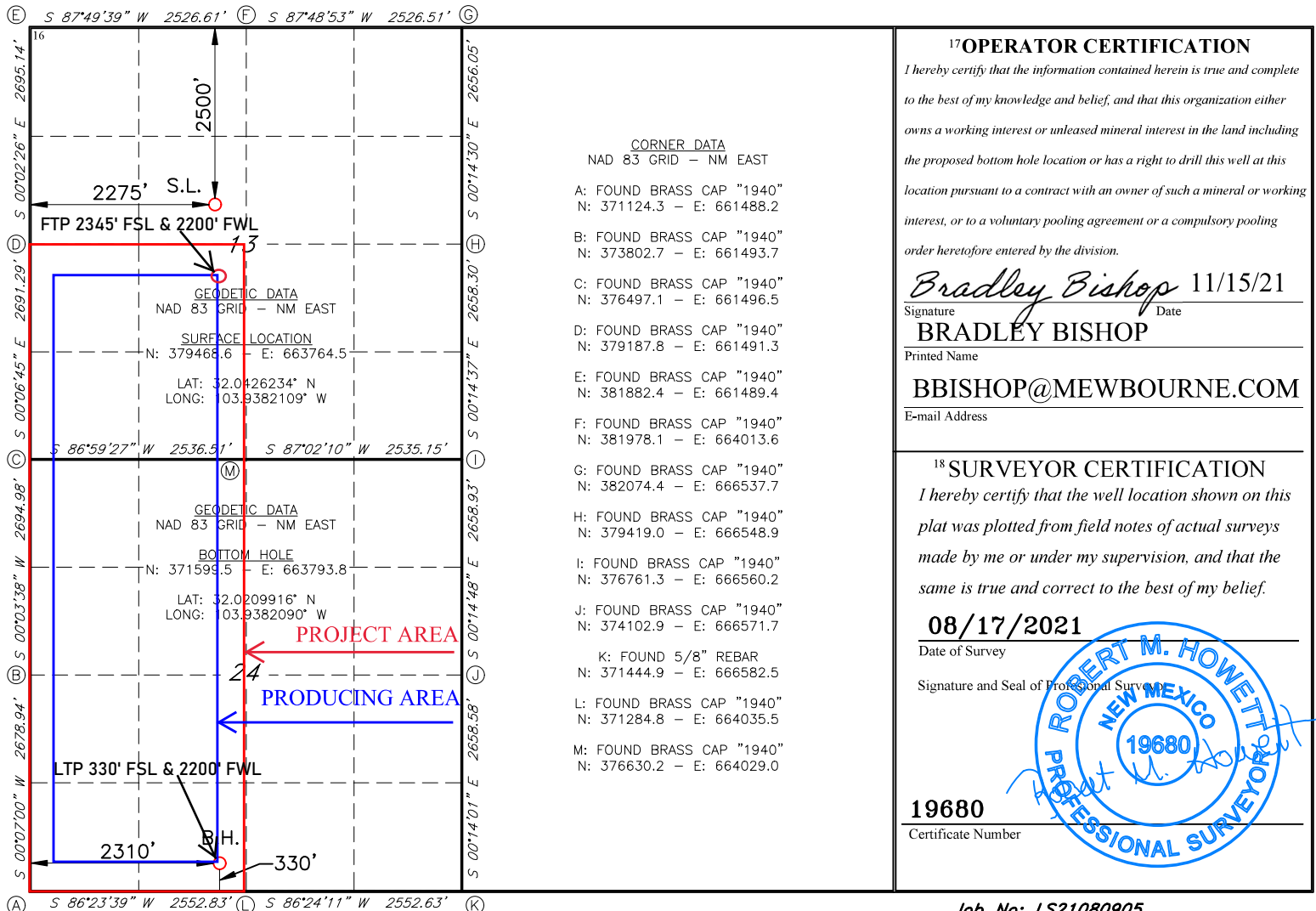
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
F	13	26S	29E		2500	NORTH	2275	WEST	EDDY

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
N	24	26S	29E		330	SOUTH	2310	WEST	EDDY

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



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State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Mewbourne Oil Co. **OGRID:** 14744 **Date:** 11/1/21

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: _____

III. Well(s): 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 Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Fuller 13/24 W2KN Fed Com #2H		F 13 26S 29E	2500' FNL x 2275' FWL	1000	6000	10000

IV. Central Delivery Point Name: Fuller 13/24 W2KN Fed Com #2H [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: 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	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Fuller 13/24 W2KN Fed Com #2H		1/6/22	2/1/22	3/1/22	3/16/22	3/16/22

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.

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

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

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

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

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

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

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

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

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

If Operator checks this box, Operator will select one of the following:

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

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

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

Section 4 - Notices

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

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

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

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

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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:	<i>Bradley Bishop</i>
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 Approval:	

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

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

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

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



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

Drilling Plan Data Report

04/11/2023

APD ID: 10400081743

Submission Date: 11/29/2021

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 13/24 W2KN FED COM

Well Number: 2H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
7810170	UNKNOWN	3001	28	28	OTHER : Top soil	NONE	N
7810174	RUSTLER	2441	560	560	ANHYDRITE, DOLOMITE	USEABLE WATER	N
7810161	TOP SALT	2101	900	900	SALT	NONE	N
7810163	BOTTOM SALT	43	2958	2958	LIMESTONE	NATURAL GAS, OIL	N
7810164	LAMAR	-183	3184	3184	SANDSTONE	NATURAL GAS, OIL	N
7810171	BELL CANYON	-213	3214	3214	SANDSTONE	NATURAL GAS, OIL	N
7810166	CHERRY CANYON	-1096	4097	4097	SANDSTONE	NATURAL GAS, OIL	N
7810167	MANZANITA	-1271	4272	4272	SANDSTONE	NATURAL GAS, OIL	N
7810168	BRUSHY CANYON	-3747	6748	6748	SANDSTONE	NATURAL GAS, OIL	N
7810176	BONE SPRING	-3980	6981	6981	LIMESTONE, SHALE	NATURAL GAS, OIL	N
7810177	BONE SPRING 1ST	-4904	7905	7905	SANDSTONE	NATURAL GAS, OIL	N
7810178	BONE SPRING 2ND	-5709	8710	8710	SANDSTONE	NATURAL GAS, OIL	N
7810179	BONE SPRING 3RD	-6836	9837	9837	SANDSTONE	NATURAL GAS, OIL	N
7810180	WOLFCAMP	-7204	10205	10205	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** FULLER 13/24 W2KN FED COM**Well Number:** 2H**Pressure Rating (PSI):** 5M**Rating Depth:** 19084**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_24_W2KN_Fed_Com_2H_Flex_Line_Specs_20211129111334.pdf

Fuller_13_24_W2KN_Fed_Com_2H_5M_BOPE_Choke_Diagram_20211129111334.pdf

Fuller_13_24_W2KN_Fed_Com_2H_Flex_Line_Specs_API_16C_20211129111334.pdf

BOP Diagram Attachment:

Fuller_13_24_W2KN_Fed_Com_2H_5M_Mutli_Bowl_WH_20211129111343.pdf

Fuller_13_24_W2KN_Fed_Com_2H_5M_BOPE_Schematic_20211129111343.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	510	0	510	3001	2491	510	H-40	48	ST&C	3.46	7.77	DRY	13.1 ²	DRY	22.1
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3100	0	3100	2982	-99	3100	J-55	36	LT&C	1.25	2.18	DRY	4.06	DRY	5.05
3	PRODUCTION	8.75	7.0	NEW	API	N	0	11719	0	11391	2948	-8390	11719	HCP-110	26	LT&C	1.39	1.77	DRY	2.27	DRY	2.72
4	LINER	6.125	4.5	NEW	API	N	10818	19084	10818	11355	-7817	-8354	8266	P-110	13.5	LT&C	1.5	1.75	DRY	3.03	DRY	3.78

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** FULLER 13/24 W2KN 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_24_W2KN_Fed_Com_2H_Csg_Assumptions_20211129111425.pdf

Casing ID: 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Fuller_13_24_W2KN_Fed_Com_2H_Csg_Assumptions_20211129111459.pdf

Casing ID: 3 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Fuller_13_24_W2KN_Fed_Com_2H_Csg_Assumptions_20211129111554.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 13/24 W2KN FED COM

Well Number: 2H

Casing Attachments

Casing ID: 4 String LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Fuller_13_24_W2KN_Fed_Com_2H_Csg_Assumptions_20211129111701.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	318	210	2.12	12.5	445	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		318	510	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	4200	2900	3533	60	2.12	12.5	127	25	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		3533	4200	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	4200	4200	9230	450	2.12	12.5	954	25	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		9230	11719	400	1.18	15.6	472	25	Class C	Retarder
LINER	Lead		10818	19084	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 13/24 W2KN 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

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	510	SPUD MUD	8.6	8.8							
510	3100	SALT SATURATED	10	10							
3100	1171 9	WATER-BASED MUD	8.6	9.7							
1171 9	1908 4	OIL-BASED MUD	8.6	12							

Section 6 - Test, Logging, Coring

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

Will use GR and CNL from offset well: Fuller 13/12 W2ED Fed Com #2H

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

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

Coring operation description for the well:

None

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FULLER 13/24 W2KN FED COM

Well Number: 2H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7404

Anticipated Surface Pressure: 4897

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Fuller_13_24_W2KN_Fed_Com_2H_H2S_Plan_20211129113540.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Fuller_13_24_W2KN_Fed_Com_2H_Design_Plan_20211129113615.pdf

Fuller_13_24_W2KN_Fed_Com_2H_Design_Plot_20211129113615.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Fuller_13_24_W2KN_Fed_Com_2H_Add_Info_20211129113623.pdf

Other Variance attachment:



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

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: Tim.Cantu@gates.com
WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE 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

Product Description: 10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

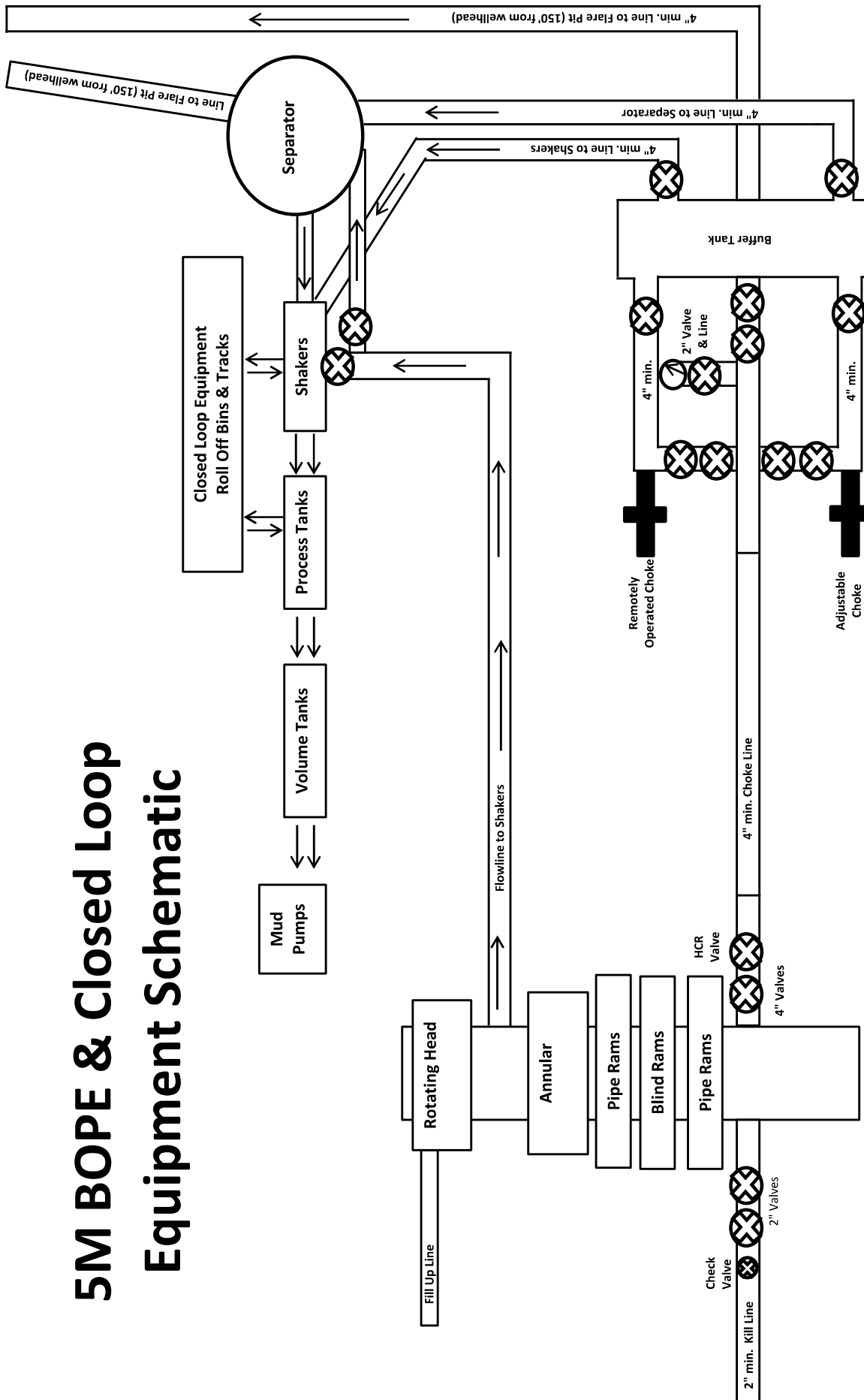
Quality Manager :	QUALITY	Production:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :	<i>Justin Cropper</i>	Signature :	<i>Justin Cropper</i>

Form PTC - 01 Rev.02





5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale



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
Product Description:	10KF3.035.0CK41/1610KFLGFXDxFLT L/E		
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

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
Date : 8/20/2018
Signature : *Moosa Naqvi*

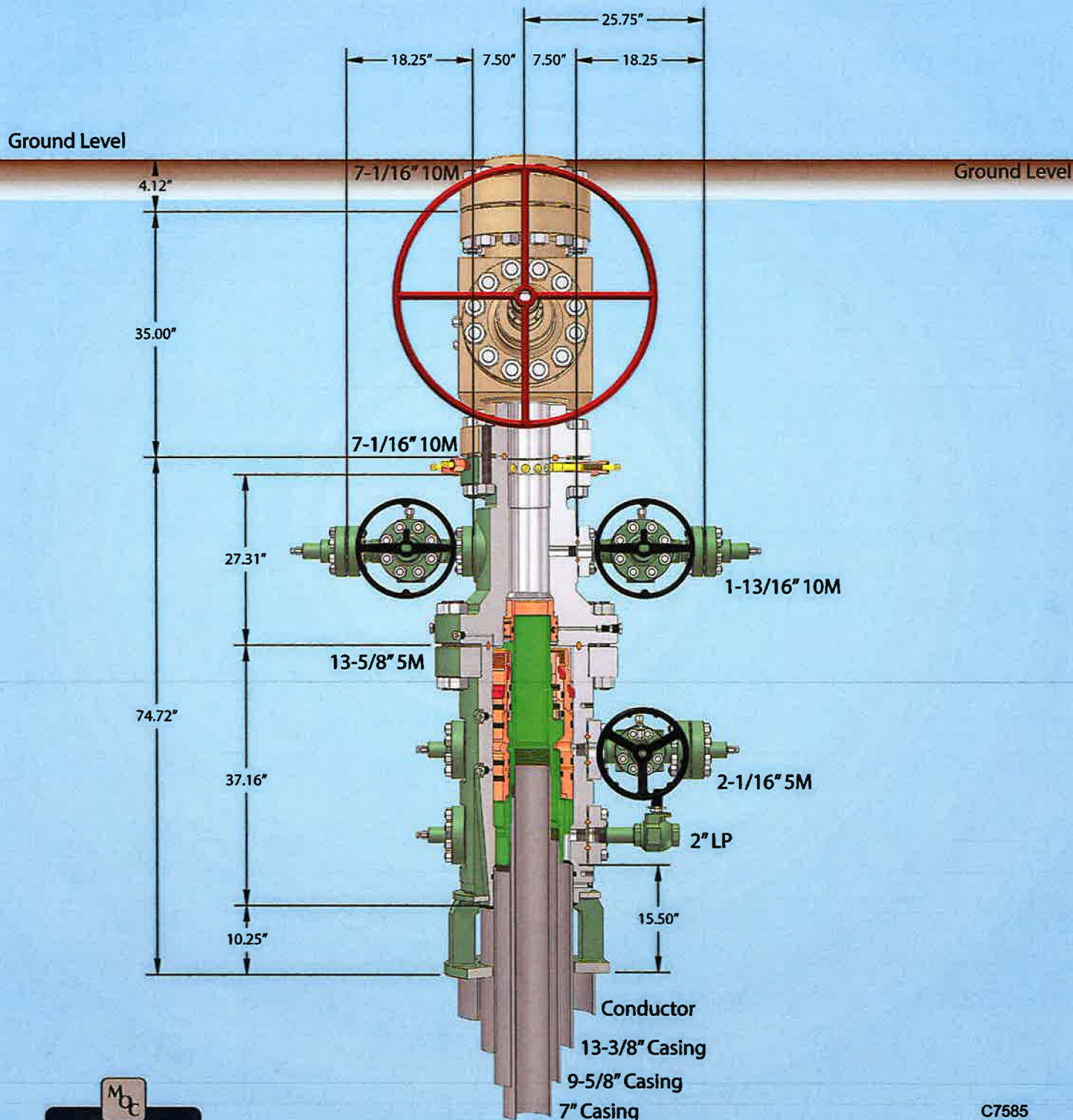
Production: PRODUCTION
Date : 8/20/2018
Signature : *[Signature]*

Form PTC - 01 Rev.0 2





13-5/8" MN-DS Wellhead System

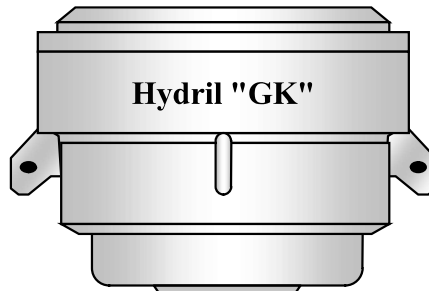
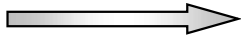


C7585
Rev. 02

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

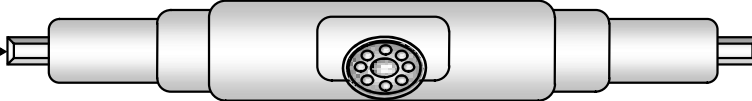
Cuffing Hanger 57" conductor cut-off

Hydril "GK"
13 5/8" 5M

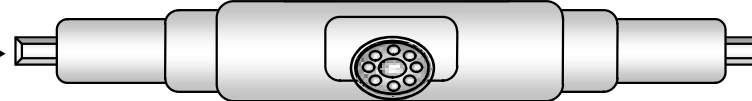


Hydril "GK"

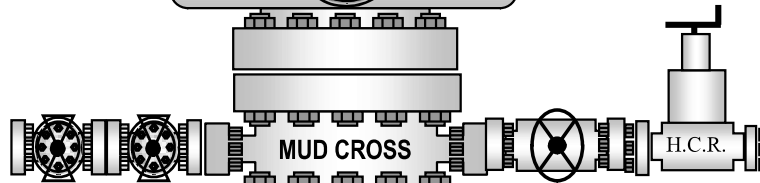
Cameron Type U
13 5/8" 5M



4 1/2" x 5 7/8" VBR

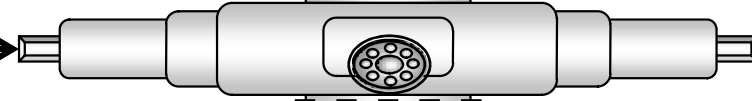


BLIND RAMS



MUD CROSS

H.C.R.



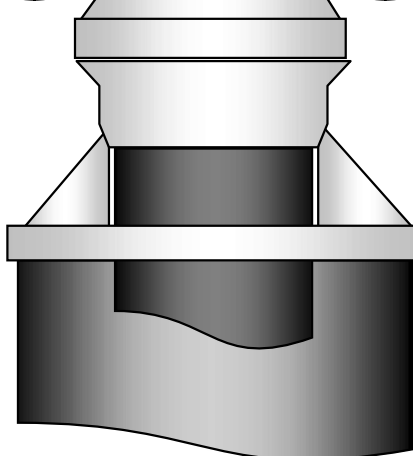
7" RAMS



13 5/8" 5M

13 5/8" 5M

13 5/8" 5M



Mewbourne Oil Company, Fuller 13/24 W2KN Fed Com #2H
Sec 13, T26S, R29E
SHL: 2500' FNL & 2275' FWL, Sec 13
BHL: 330' FSL & 2200' FWL, Sec 24

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	510'	13.375"	48	H40	STC	3.46	7.77	13.12	22.10
12.25"	0'	3100'	9.625"	36	J55	LTC	1.25	2.18	4.06	5.05
8.75"	0'	11719'	7"	26	HCP110	LTC	1.39	1.77	2.27	2.72
6.125"	10818'	19084'	4.5"	13.5	P110	LTC	1.50	1.75	3.03	3.78
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
 Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide 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?	

Mewbourne Oil Company, Fuller 13/24 W2KN Fed Com #2H
Sec 13, T26S, R29E
SHL: 2500' FNL & 2275' FWL, Sec 13
BHL: 330' FSL & 2200' FWL, Sec 24

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	510'	13.375"	48	H40	STC	3.46	7.77	13.12	22.10
12.25"	0'	3100'	9.625"	36	J55	LTC	1.25	2.18	4.06	5.05
8.75"	0'	11719'	7"	26	HCP110	LTC	1.39	1.77	2.27	2.72
6.125"	10818'	19084'	4.5"	13.5	P110	LTC	1.50	1.75	3.03	3.78
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
 Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide 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?	

Mewbourne Oil Company, Fuller 13/24 W2KN Fed Com #2H
Sec 13, T26S, R29E
SHL: 2500' FNL & 2275' FWL, Sec 13
BHL: 330' FSL & 2200' FWL, Sec 24

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	510'	13.375"	48	H40	STC	3.46	7.77	13.12	22.10
12.25"	0'	3100'	9.625"	36	J55	LTC	1.25	2.18	4.06	5.05
8.75"	0'	11719'	7"	26	HCP110	LTC	1.39	1.77	2.27	2.72
6.125"	10818'	19084'	4.5"	13.5	P110	LTC	1.50	1.75	3.03	3.78
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
 Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide 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?	

Mewbourne Oil Company, Fuller 13/24 W2KN Fed Com #2H**Sec 13, T26S, R29E****SHL: 2500' FNL & 2275' FWL, Sec 13****BHL: 330' FSL & 2200' FWL, Sec 24****Casing Program**

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	510'	13.375"	48	H40	STC	3.46	7.77	13.12	22.10
12.25"	0'	3100'	9.625"	36	J55	LTC	1.25	2.18	4.06	5.05
8.75"	0'	11719'	7"	26	HCP110	LTC	1.39	1.77	2.27	2.72
6.125"	10818'	19084'	4.5"	13.5	P110	LTC	1.50	1.75	3.03	3.78
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide 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?	

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Fuller 13/24 W2KN Fed Com #2H

Sec. 13, T26S, R29E

SL: 2500' FNL & 2275' FWL, Sec 13

BHL: 330' FSL & 2200' FWL, Sec 24

Plan: Design #1

Standard Planning Report

29 November, 2021

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
Design:	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Fuller 13/24 W2KN Fed Com #2H			
Site Position:		Northing:	379,466.92 usft	Latitude:	32.0426188
From:	Map	Easting:	663,766.10 usft	Longitude:	-103.9382056
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	

Well		Sec. 13, T26S, R29E				
Well Position	+N/-S	0.0 usft	Northing:	379,466.92 usft	Latitude:	32.0426188
	+E/-W	0.0 usft	Easting:	663,766.10 usft	Longitude:	-103.9382056
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,029.0 usft	Ground Level:	3,001.0 usft
Grid Convergence:		0.21 °				

Wellbore	BHL: 330' FSL & 2200' FWL, Sec 24				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.30	59.87	48,091.48897011

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.56	

Plan Survey Tool Program	Date	11/29/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,083.8	Design #1 (BHL: 330' FSL & 2200		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,136.9	0.74	310.76	3,136.9	0.2	-0.2	2.00	2.00	0.00	310.76	
10,781.7	0.74	310.76	10,781.1	64.5	-74.9	0.00	0.00	0.00	0.00	
10,818.6	0.00	0.00	10,818.0	64.7	-75.0	2.00	-2.00	0.00	180.00	KOP: 2434' FNL & 22
11,721.5	90.28	180.01	11,391.0	-511.1	-75.2	10.00	10.00	0.00	-179.99	
19,083.8	90.28	180.01	11,355.0	-7,873.3	-76.9	0.00	0.00	0.00	0.00	BHL: 330' FSL & 2200

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
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: 2500' FNL & 2275' 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
1,300.0	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
2,300.0	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
3,136.9	0.74	310.76	3,136.9	0.2	-0.2	-0.2	2.00	2.00	0.00
3,200.0	0.74	310.76	3,200.0	0.7	-0.8	-0.7	0.00	0.00	0.00
3,300.0	0.74	310.76	3,300.0	1.5	-1.8	-1.5	0.00	0.00	0.00
3,400.0	0.74	310.76	3,400.0	2.4	-2.8	-2.3	0.00	0.00	0.00
3,500.0	0.74	310.76	3,500.0	3.2	-3.7	-3.2	0.00	0.00	0.00
3,600.0	0.74	310.76	3,600.0	4.1	-4.7	-4.0	0.00	0.00	0.00
3,700.0	0.74	310.76	3,700.0	4.9	-5.7	-4.8	0.00	0.00	0.00
3,800.0	0.74	310.76	3,799.9	5.7	-6.7	-5.7	0.00	0.00	0.00
3,900.0	0.74	310.76	3,899.9	6.6	-7.6	-6.5	0.00	0.00	0.00
4,000.0	0.74	310.76	3,999.9	7.4	-8.6	-7.3	0.00	0.00	0.00
4,100.0	0.74	310.76	4,099.9	8.3	-9.6	-8.2	0.00	0.00	0.00
4,200.0	0.74	310.76	4,199.9	9.1	-10.6	-9.0	0.00	0.00	0.00
4,300.0	0.74	310.76	4,299.9	10.0	-11.5	-9.8	0.00	0.00	0.00
4,400.0	0.74	310.76	4,399.9	10.8	-12.5	-10.7	0.00	0.00	0.00
4,500.0	0.74	310.76	4,499.9	11.6	-13.5	-11.5	0.00	0.00	0.00
4,600.0	0.74	310.76	4,599.9	12.5	-14.5	-12.3	0.00	0.00	0.00
4,700.0	0.74	310.76	4,699.9	13.3	-15.4	-13.2	0.00	0.00	0.00
4,800.0	0.74	310.76	4,799.9	14.2	-16.4	-14.0	0.00	0.00	0.00
4,900.0	0.74	310.76	4,899.9	15.0	-17.4	-14.8	0.00	0.00	0.00
5,000.0	0.74	310.76	4,999.8	15.8	-18.4	-15.7	0.00	0.00	0.00
5,100.0	0.74	310.76	5,099.8	16.7	-19.4	-16.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
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)
5,200.0	0.74	310.76	5,199.8	17.5	-20.3	-17.3	0.00	0.00	0.00
5,300.0	0.74	310.76	5,299.8	18.4	-21.3	-18.2	0.00	0.00	0.00
5,400.0	0.74	310.76	5,399.8	19.2	-22.3	-19.0	0.00	0.00	0.00
5,500.0	0.74	310.76	5,499.8	20.1	-23.3	-19.8	0.00	0.00	0.00
5,600.0	0.74	310.76	5,599.8	20.9	-24.2	-20.7	0.00	0.00	0.00
5,700.0	0.74	310.76	5,699.8	21.7	-25.2	-21.5	0.00	0.00	0.00
5,800.0	0.74	310.76	5,799.8	22.6	-26.2	-22.3	0.00	0.00	0.00
5,900.0	0.74	310.76	5,899.8	23.4	-27.2	-23.2	0.00	0.00	0.00
6,000.0	0.74	310.76	5,999.8	24.3	-28.1	-24.0	0.00	0.00	0.00
6,100.0	0.74	310.76	6,099.8	25.1	-29.1	-24.8	0.00	0.00	0.00
6,200.0	0.74	310.76	6,199.7	26.0	-30.1	-25.7	0.00	0.00	0.00
6,300.0	0.74	310.76	6,299.7	26.8	-31.1	-26.5	0.00	0.00	0.00
6,400.0	0.74	310.76	6,399.7	27.6	-32.1	-27.3	0.00	0.00	0.00
6,500.0	0.74	310.76	6,499.7	28.5	-33.0	-28.2	0.00	0.00	0.00
6,600.0	0.74	310.76	6,599.7	29.3	-34.0	-29.0	0.00	0.00	0.00
6,700.0	0.74	310.76	6,699.7	30.2	-35.0	-29.8	0.00	0.00	0.00
6,800.0	0.74	310.76	6,799.7	31.0	-36.0	-30.7	0.00	0.00	0.00
6,900.0	0.74	310.76	6,899.7	31.8	-36.9	-31.5	0.00	0.00	0.00
7,000.0	0.74	310.76	6,999.7	32.7	-37.9	-32.3	0.00	0.00	0.00
7,100.0	0.74	310.76	7,099.7	33.5	-38.9	-33.1	0.00	0.00	0.00
7,200.0	0.74	310.76	7,199.7	34.4	-39.9	-34.0	0.00	0.00	0.00
7,300.0	0.74	310.76	7,299.7	35.2	-40.8	-34.8	0.00	0.00	0.00
7,400.0	0.74	310.76	7,399.6	36.1	-41.8	-35.6	0.00	0.00	0.00
7,500.0	0.74	310.76	7,499.6	36.9	-42.8	-36.5	0.00	0.00	0.00
7,600.0	0.74	310.76	7,599.6	37.7	-43.8	-37.3	0.00	0.00	0.00
7,700.0	0.74	310.76	7,699.6	38.6	-44.8	-38.1	0.00	0.00	0.00
7,800.0	0.74	310.76	7,799.6	39.4	-45.7	-39.0	0.00	0.00	0.00
7,900.0	0.74	310.76	7,899.6	40.3	-46.7	-39.8	0.00	0.00	0.00
8,000.0	0.74	310.76	7,999.6	41.1	-47.7	-40.6	0.00	0.00	0.00
8,100.0	0.74	310.76	8,099.6	42.0	-48.7	-41.5	0.00	0.00	0.00
8,200.0	0.74	310.76	8,199.6	42.8	-49.6	-42.3	0.00	0.00	0.00
8,300.0	0.74	310.76	8,299.6	43.6	-50.6	-43.1	0.00	0.00	0.00
8,400.0	0.74	310.76	8,399.6	44.5	-51.6	-44.0	0.00	0.00	0.00
8,500.0	0.74	310.76	8,499.6	45.3	-52.6	-44.8	0.00	0.00	0.00
8,600.0	0.74	310.76	8,599.5	46.2	-53.5	-45.6	0.00	0.00	0.00
8,700.0	0.74	310.76	8,699.5	47.0	-54.5	-46.5	0.00	0.00	0.00
8,800.0	0.74	310.76	8,799.5	47.8	-55.5	-47.3	0.00	0.00	0.00
8,900.0	0.74	310.76	8,899.5	48.7	-56.5	-48.1	0.00	0.00	0.00
9,000.0	0.74	310.76	8,999.5	49.5	-57.5	-49.0	0.00	0.00	0.00
9,100.0	0.74	310.76	9,099.5	50.4	-58.4	-49.8	0.00	0.00	0.00
9,200.0	0.74	310.76	9,199.5	51.2	-59.4	-50.6	0.00	0.00	0.00
9,300.0	0.74	310.76	9,299.5	52.1	-60.4	-51.5	0.00	0.00	0.00
9,400.0	0.74	310.76	9,399.5	52.9	-61.4	-52.3	0.00	0.00	0.00
9,500.0	0.74	310.76	9,499.5	53.7	-62.3	-53.1	0.00	0.00	0.00
9,600.0	0.74	310.76	9,599.5	54.6	-63.3	-54.0	0.00	0.00	0.00
9,700.0	0.74	310.76	9,699.5	55.4	-64.3	-54.8	0.00	0.00	0.00
9,800.0	0.74	310.76	9,799.4	56.3	-65.3	-55.6	0.00	0.00	0.00
9,900.0	0.74	310.76	9,899.4	57.1	-66.2	-56.5	0.00	0.00	0.00
10,000.0	0.74	310.76	9,999.4	58.0	-67.2	-57.3	0.00	0.00	0.00
10,100.0	0.74	310.76	10,099.4	58.8	-68.2	-58.1	0.00	0.00	0.00
10,200.0	0.74	310.76	10,199.4	59.6	-69.2	-59.0	0.00	0.00	0.00
10,300.0	0.74	310.76	10,299.4	60.5	-70.2	-59.8	0.00	0.00	0.00
10,400.0	0.74	310.76	10,399.4	61.3	-71.1	-60.6	0.00	0.00	0.00
10,500.0	0.74	310.76	10,499.4	62.2	-72.1	-61.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
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	0.74	310.76	10,599.4	63.0	-73.1	-62.3	0.00	0.00	0.00
10,700.0	0.74	310.76	10,699.4	63.8	-74.1	-63.1	0.00	0.00	0.00
10,781.7	0.74	310.76	10,781.1	64.5	-74.9	-63.8	0.00	0.00	0.00
10,800.0	0.37	310.76	10,799.4	64.7	-75.0	-63.9	2.00	-2.00	0.00
10,818.6	0.00	0.00	10,818.0	64.7	-75.0	-64.0	2.00	-2.00	0.00
KOP: 2434' FNL & 2200' FWL (Sec 13)									
10,850.0	3.14	180.01	10,849.3	63.8	-75.0	-63.1	10.00	10.00	0.00
10,900.0	8.14	180.01	10,899.1	58.9	-75.0	-58.2	10.00	10.00	0.00
10,950.0	13.14	180.01	10,948.2	49.7	-75.0	-49.0	10.00	10.00	0.00
11,000.0	18.13	180.01	10,996.3	36.2	-75.0	-35.5	10.00	10.00	0.00
11,050.0	23.13	180.01	11,043.1	18.6	-75.1	-17.9	10.00	10.00	0.00
11,100.0	28.13	180.01	11,088.2	-3.0	-75.1	3.7	10.00	10.00	0.00
11,150.0	33.13	180.01	11,131.2	-28.5	-75.1	29.2	10.00	10.00	0.00
11,200.0	38.13	180.01	11,171.8	-57.6	-75.1	58.3	10.00	10.00	0.00
11,250.0	43.13	180.01	11,209.8	-90.2	-75.1	90.9	10.00	10.00	0.00
11,300.0	48.13	180.01	11,244.7	-125.9	-75.1	126.6	10.00	10.00	0.00
11,350.0	53.13	180.01	11,276.4	-164.5	-75.1	165.3	10.00	10.00	0.00
11,400.0	58.13	180.01	11,304.6	-205.8	-75.1	206.5	10.00	10.00	0.00
11,450.0	63.13	180.01	11,329.1	-249.3	-75.1	250.1	10.00	10.00	0.00
11,500.0	68.13	180.01	11,349.8	-294.9	-75.1	295.6	10.00	10.00	0.00
11,550.0	73.13	180.01	11,366.3	-342.0	-75.1	342.7	10.00	10.00	0.00
11,600.0	78.13	180.01	11,378.8	-390.4	-75.1	391.2	10.00	10.00	0.00
11,650.0	83.13	180.01	11,386.9	-439.8	-75.2	440.5	10.00	10.00	0.00
11,700.0	88.13	180.01	11,390.7	-489.6	-75.2	490.3	10.00	10.00	0.00
11,719.2	90.05	180.01	11,391.0	-508.9	-75.2	509.6	10.00	10.00	0.00
LP/FTP: 2345' FSL & 2200' FWL (Sec 13)									
11,721.5	90.28	180.01	11,391.0	-511.1	-75.2	511.8	10.00	10.00	0.00
11,800.0	90.28	180.01	11,390.6	-589.6	-75.2	590.3	0.00	0.00	0.00
11,900.0	90.28	180.01	11,390.1	-689.6	-75.2	690.3	0.00	0.00	0.00
12,000.0	90.28	180.01	11,389.6	-789.6	-75.2	790.3	0.00	0.00	0.00
12,100.0	90.28	180.01	11,389.1	-889.6	-75.3	890.3	0.00	0.00	0.00
12,200.0	90.28	180.01	11,388.7	-989.6	-75.3	990.3	0.00	0.00	0.00
12,300.0	90.28	180.01	11,388.2	-1,089.6	-75.3	1,090.3	0.00	0.00	0.00
12,400.0	90.28	180.01	11,387.7	-1,189.6	-75.3	1,190.3	0.00	0.00	0.00
12,500.0	90.28	180.01	11,387.2	-1,289.6	-75.4	1,290.3	0.00	0.00	0.00
12,600.0	90.28	180.01	11,386.7	-1,389.6	-75.4	1,390.3	0.00	0.00	0.00
12,700.0	90.28	180.01	11,386.2	-1,489.6	-75.4	1,490.3	0.00	0.00	0.00
12,800.0	90.28	180.01	11,385.7	-1,589.6	-75.4	1,590.3	0.00	0.00	0.00
12,900.0	90.28	180.01	11,385.2	-1,689.6	-75.5	1,690.2	0.00	0.00	0.00
13,000.0	90.28	180.01	11,384.7	-1,789.6	-75.5	1,790.2	0.00	0.00	0.00
13,100.0	90.28	180.01	11,384.3	-1,889.6	-75.5	1,890.2	0.00	0.00	0.00
13,200.0	90.28	180.01	11,383.8	-1,989.6	-75.5	1,990.2	0.00	0.00	0.00
13,300.0	90.28	180.01	11,383.3	-2,089.6	-75.6	2,090.2	0.00	0.00	0.00
13,400.0	90.28	180.01	11,382.8	-2,189.6	-75.6	2,190.2	0.00	0.00	0.00
13,500.0	90.28	180.01	11,382.3	-2,289.6	-75.6	2,290.2	0.00	0.00	0.00
13,600.0	90.28	180.01	11,381.8	-2,389.6	-75.6	2,390.2	0.00	0.00	0.00
13,700.0	90.28	180.01	11,381.3	-2,489.6	-75.6	2,490.2	0.00	0.00	0.00
13,800.0	90.28	180.01	11,380.8	-2,589.6	-75.7	2,590.2	0.00	0.00	0.00
13,900.0	90.28	180.01	11,380.3	-2,689.6	-75.7	2,690.2	0.00	0.00	0.00
14,000.0	90.28	180.01	11,379.9	-2,789.6	-75.7	2,790.2	0.00	0.00	0.00
14,064.6	90.28	180.01	11,379.5	-2,854.2	-75.7	2,854.8	0.00	0.00	0.00
PPP2: 0' FNL & 2200' FWL (Sec 24)									
14,100.0	90.28	180.01	11,379.4	-2,889.6	-75.7	2,890.2	0.00	0.00	0.00

Planning Report

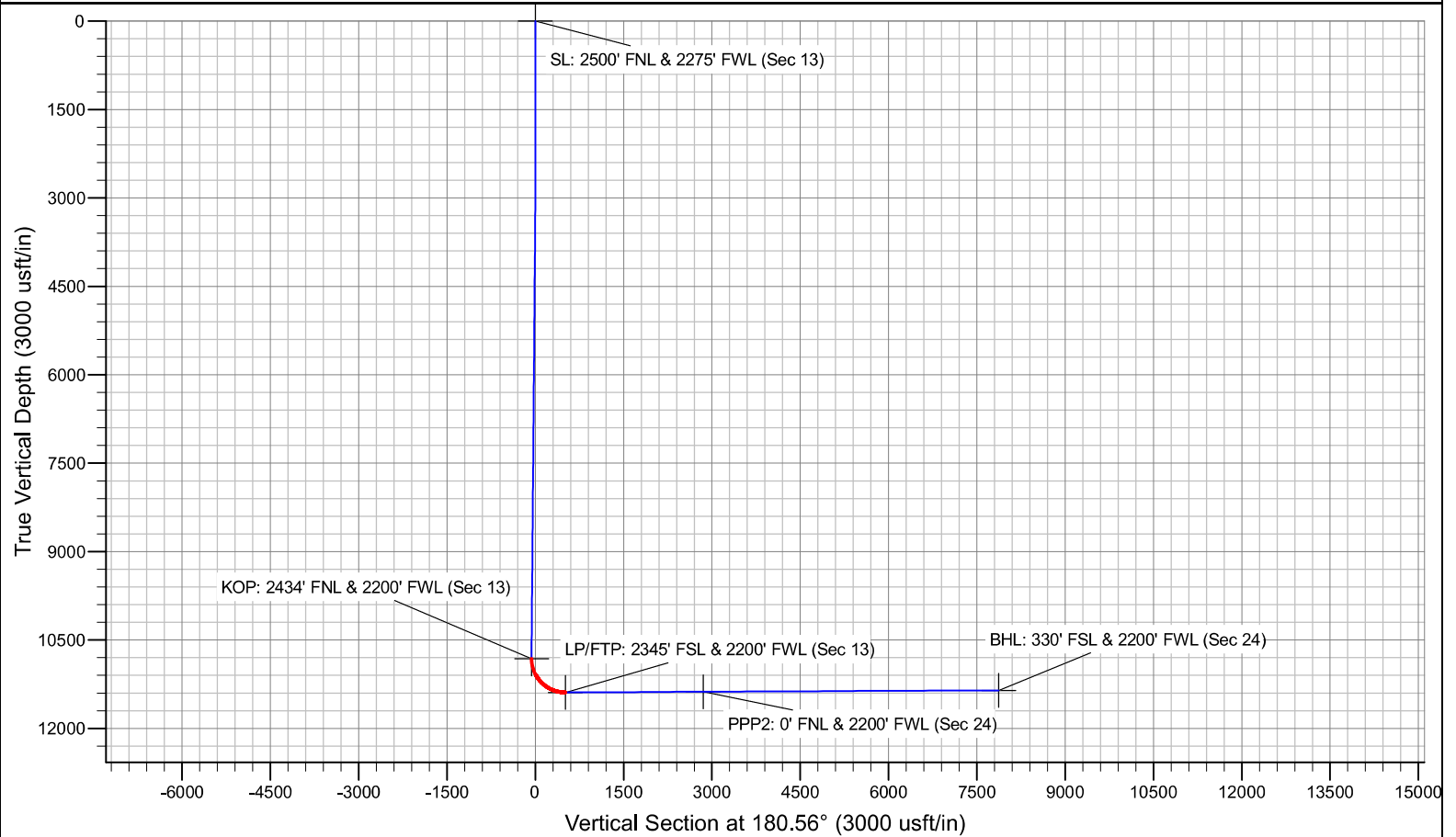
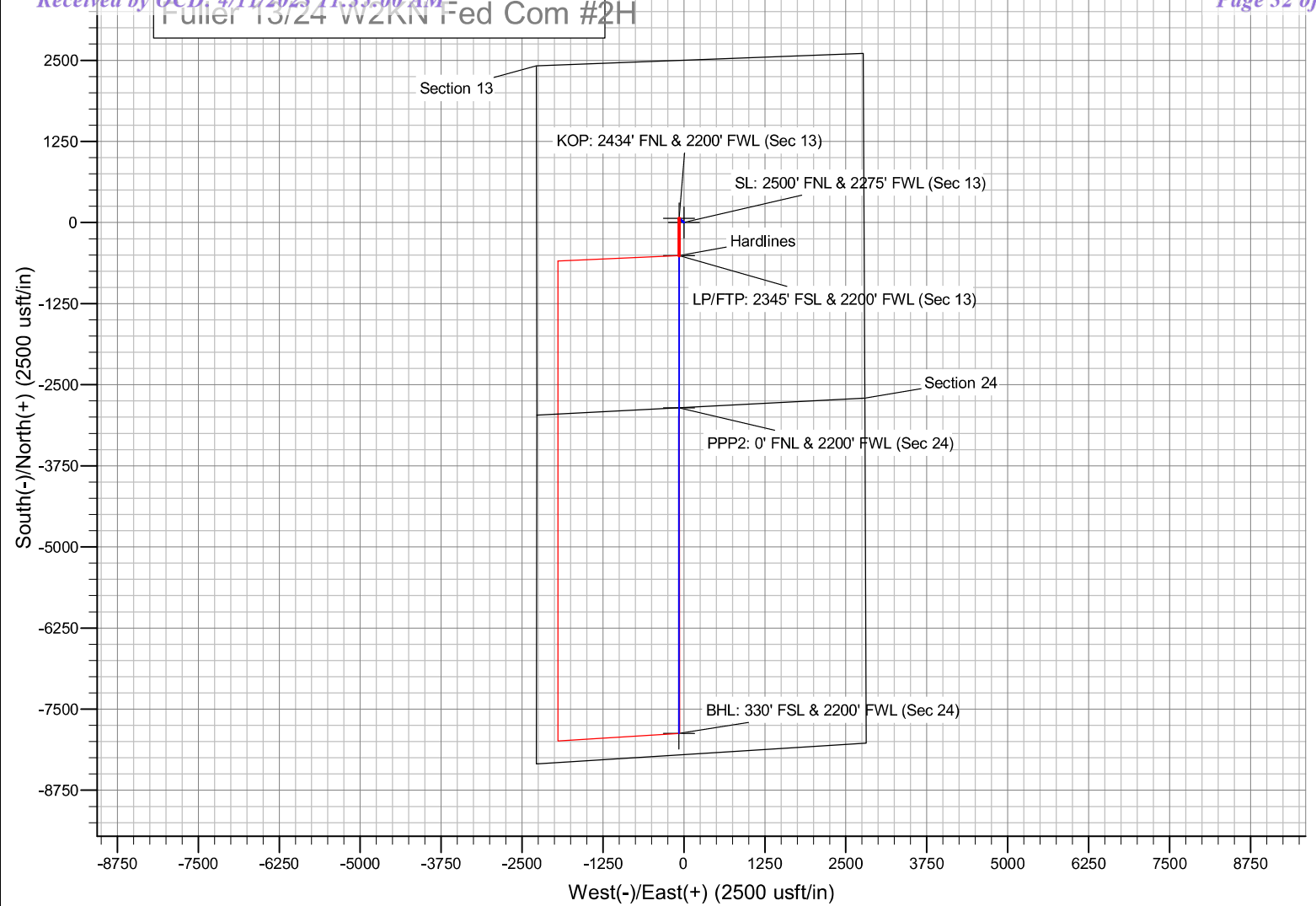
Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
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	90.28	180.01	11,378.9	-2,989.6	-75.8	2,990.2	0.00	0.00	0.00
14,300.0	90.28	180.01	11,378.4	-3,089.6	-75.8	3,090.2	0.00	0.00	0.00
14,400.0	90.28	180.01	11,377.9	-3,189.6	-75.8	3,190.2	0.00	0.00	0.00
14,500.0	90.28	180.01	11,377.4	-3,289.6	-75.8	3,290.2	0.00	0.00	0.00
14,600.0	90.28	180.01	11,376.9	-3,389.6	-75.9	3,390.1	0.00	0.00	0.00
14,700.0	90.28	180.01	11,376.4	-3,489.6	-75.9	3,490.1	0.00	0.00	0.00
14,800.0	90.28	180.01	11,375.9	-3,589.6	-75.9	3,590.1	0.00	0.00	0.00
14,900.0	90.28	180.01	11,375.5	-3,689.6	-75.9	3,690.1	0.00	0.00	0.00
15,000.0	90.28	180.01	11,375.0	-3,789.6	-76.0	3,790.1	0.00	0.00	0.00
15,100.0	90.28	180.01	11,374.5	-3,889.6	-76.0	3,890.1	0.00	0.00	0.00
15,200.0	90.28	180.01	11,374.0	-3,989.6	-76.0	3,990.1	0.00	0.00	0.00
15,300.0	90.28	180.01	11,373.5	-4,089.6	-76.0	4,090.1	0.00	0.00	0.00
15,400.0	90.28	180.01	11,373.0	-4,189.6	-76.1	4,190.1	0.00	0.00	0.00
15,500.0	90.28	180.01	11,372.5	-4,289.6	-76.1	4,290.1	0.00	0.00	0.00
15,600.0	90.28	180.01	11,372.0	-4,389.6	-76.1	4,390.1	0.00	0.00	0.00
15,700.0	90.28	180.01	11,371.5	-4,489.6	-76.1	4,490.1	0.00	0.00	0.00
15,800.0	90.28	180.01	11,371.1	-4,589.6	-76.1	4,590.1	0.00	0.00	0.00
15,900.0	90.28	180.01	11,370.6	-4,689.6	-76.2	4,690.1	0.00	0.00	0.00
16,000.0	90.28	180.01	11,370.1	-4,789.6	-76.2	4,790.1	0.00	0.00	0.00
16,100.0	90.28	180.01	11,369.6	-4,889.5	-76.2	4,890.1	0.00	0.00	0.00
16,200.0	90.28	180.01	11,369.1	-4,989.5	-76.2	4,990.1	0.00	0.00	0.00
16,300.0	90.28	180.01	11,368.6	-5,089.5	-76.3	5,090.0	0.00	0.00	0.00
16,400.0	90.28	180.01	11,368.1	-5,189.5	-76.3	5,190.0	0.00	0.00	0.00
16,500.0	90.28	180.01	11,367.6	-5,289.5	-76.3	5,290.0	0.00	0.00	0.00
16,600.0	90.28	180.01	11,367.1	-5,389.5	-76.3	5,390.0	0.00	0.00	0.00
16,700.0	90.28	180.01	11,366.7	-5,489.5	-76.4	5,490.0	0.00	0.00	0.00
16,800.0	90.28	180.01	11,366.2	-5,589.5	-76.4	5,590.0	0.00	0.00	0.00
16,900.0	90.28	180.01	11,365.7	-5,689.5	-76.4	5,690.0	0.00	0.00	0.00
17,000.0	90.28	180.01	11,365.2	-5,789.5	-76.4	5,790.0	0.00	0.00	0.00
17,100.0	90.28	180.01	11,364.7	-5,889.5	-76.5	5,890.0	0.00	0.00	0.00
17,200.0	90.28	180.01	11,364.2	-5,989.5	-76.5	5,990.0	0.00	0.00	0.00
17,300.0	90.28	180.01	11,363.7	-6,089.5	-76.5	6,090.0	0.00	0.00	0.00
17,400.0	90.28	180.01	11,363.2	-6,189.5	-76.5	6,190.0	0.00	0.00	0.00
17,500.0	90.28	180.01	11,362.7	-6,289.5	-76.6	6,290.0	0.00	0.00	0.00
17,600.0	90.28	180.01	11,362.3	-6,389.5	-76.6	6,390.0	0.00	0.00	0.00
17,700.0	90.28	180.01	11,361.8	-6,489.5	-76.6	6,490.0	0.00	0.00	0.00
17,800.0	90.28	180.01	11,361.3	-6,589.5	-76.6	6,590.0	0.00	0.00	0.00
17,900.0	90.28	180.01	11,360.8	-6,689.5	-76.6	6,690.0	0.00	0.00	0.00
18,000.0	90.28	180.01	11,360.3	-6,789.5	-76.7	6,790.0	0.00	0.00	0.00
18,100.0	90.28	180.01	11,359.8	-6,889.5	-76.7	6,889.9	0.00	0.00	0.00
18,200.0	90.28	180.01	11,359.3	-6,989.5	-76.7	6,989.9	0.00	0.00	0.00
18,300.0	90.28	180.01	11,358.8	-7,089.5	-76.7	7,089.9	0.00	0.00	0.00
18,400.0	90.28	180.01	11,358.3	-7,189.5	-76.8	7,189.9	0.00	0.00	0.00
18,500.0	90.28	180.01	11,357.9	-7,289.5	-76.8	7,289.9	0.00	0.00	0.00
18,600.0	90.28	180.01	11,357.4	-7,389.5	-76.8	7,389.9	0.00	0.00	0.00
18,700.0	90.28	180.01	11,356.9	-7,489.5	-76.8	7,489.9	0.00	0.00	0.00
18,800.0	90.28	180.01	11,356.4	-7,589.5	-76.9	7,589.9	0.00	0.00	0.00
18,900.0	90.28	180.01	11,355.9	-7,689.5	-76.9	7,689.9	0.00	0.00	0.00
19,000.0	90.28	180.01	11,355.4	-7,789.5	-76.9	7,789.9	0.00	0.00	0.00
19,083.8	90.28	180.01	11,355.0	-7,873.3	-76.9	7,873.7	0.00	0.00	0.00
BHL: 330' FSL & 2200' FWL (Sec 24)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
SL: 2500' FNL & 2275' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	379,466.92	663,766.10	32.0426188	-103.9382056
KOP: 2434' FNL & 2200' - plan hits target center - Point	0.00	0.00	10,818.0	64.7	-75.0	379,531.61	663,691.06	32.0427974	-103.9384471
BHL: 330' FSL & 2200' F - plan hits target center - Point	0.00	0.00	11,355.0	-7,873.3	-76.9	371,593.63	663,689.17	32.0209765	-103.9385468
PPP2: 0' FNL & 2200' F - plan hits target center - Point	0.00	0.00	11,379.5	-2,854.2	-75.7	376,612.71	663,690.37	32.0347736	-103.9384837
LP/FTP: 2345' FSL & 22 - plan hits target center - Point	0.00	0.00	11,391.0	-508.9	-75.2	378,958.07	663,690.93	32.0412208	-103.9384543



Intent ☒ As Drilled ☐

API #

Operator Name: Mewbourne Oil Co.	Property Name: Fuller 13/24 W2KN Fed Com	Well Number 2H
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Kick Off Point (KOP)

UL F	Section 13	Township 26S	Range 29E	Lot	Feet 2434	From N/S N	Feet 2200	From E/W W	County EDDY
Latitude 32.0427974					Longitude -103.9384471			NAD 83	

First Take Point (FTP)

UL K	Section 13	Township 26S	Range 29E	Lot	Feet 2345	From N/S S	Feet 2200	From E/W W	County EDDY
Latitude 32.0412208					Longitude -103.9384543			NAD 83	

Last Take Point (LTP)

UL N	Section 24	Township 26S	Range 29E	Lot	Feet 330	From N/S S	Feet 2200	From E/W W	County EDDY
Latitude 32.0209765					Longitude -103.9385468			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☒Is this well an infill well? ☐

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
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KZ 06/29/2018

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Fuller 13/24 W2KN Fed Com #2H

Sec. 13, T26S, R29E

SL: 2500' FNL & 2275' FWL, Sec 13

BHL: 330' FSL & 2200' FWL, Sec 24

Plan: Design #1

Standard Planning Report

29 November, 2021

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
Design:	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Fuller 13/24 W2KN Fed Com #2H			
Site Position:		Northing:	379,466.92 usft	Latitude:	32.0426188
From:	Map	Easting:	663,766.10 usft	Longitude:	-103.9382056
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	

Well	Sec. 13, T26S, R29E					
Well Position	+N/-S	0.0 usft	Northing:	379,466.92 usft	Latitude:	32.0426188
	+E/-W	0.0 usft	Easting:	663,766.10 usft	Longitude:	-103.9382056
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,029.0 usft	Ground Level:	3,001.0 usft
Grid Convergence:		0.21 °				

Wellbore	BHL: 330' FSL & 2200' FWL, Sec 24				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.30	59.87	48,091.48897011

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.56	

Plan Survey Tool Program	Date	11/29/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,083.8	Design #1 (BHL: 330' FSL & 2200		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,136.9	0.74	310.76	3,136.9	0.2	-0.2	2.00	2.00	0.00	310.76	
10,781.7	0.74	310.76	10,781.1	64.5	-74.9	0.00	0.00	0.00	0.00	
10,818.6	0.00	0.00	10,818.0	64.7	-75.0	2.00	-2.00	0.00	180.00	KOP: 2434' FNL & 22
11,721.5	90.28	180.01	11,391.0	-511.1	-75.2	10.00	10.00	0.00	-179.99	
19,083.8	90.28	180.01	11,355.0	-7,873.3	-76.9	0.00	0.00	0.00	0.00	BHL: 330' FSL & 2200

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
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: 2500' FNL & 2275' 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
1,300.0	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
2,300.0	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
3,136.9	0.74	310.76	3,136.9	0.2	-0.2	-0.2	2.00	2.00	0.00
3,200.0	0.74	310.76	3,200.0	0.7	-0.8	-0.7	0.00	0.00	0.00
3,300.0	0.74	310.76	3,300.0	1.5	-1.8	-1.5	0.00	0.00	0.00
3,400.0	0.74	310.76	3,400.0	2.4	-2.8	-2.3	0.00	0.00	0.00
3,500.0	0.74	310.76	3,500.0	3.2	-3.7	-3.2	0.00	0.00	0.00
3,600.0	0.74	310.76	3,600.0	4.1	-4.7	-4.0	0.00	0.00	0.00
3,700.0	0.74	310.76	3,700.0	4.9	-5.7	-4.8	0.00	0.00	0.00
3,800.0	0.74	310.76	3,799.9	5.7	-6.7	-5.7	0.00	0.00	0.00
3,900.0	0.74	310.76	3,899.9	6.6	-7.6	-6.5	0.00	0.00	0.00
4,000.0	0.74	310.76	3,999.9	7.4	-8.6	-7.3	0.00	0.00	0.00
4,100.0	0.74	310.76	4,099.9	8.3	-9.6	-8.2	0.00	0.00	0.00
4,200.0	0.74	310.76	4,199.9	9.1	-10.6	-9.0	0.00	0.00	0.00
4,300.0	0.74	310.76	4,299.9	10.0	-11.5	-9.8	0.00	0.00	0.00
4,400.0	0.74	310.76	4,399.9	10.8	-12.5	-10.7	0.00	0.00	0.00
4,500.0	0.74	310.76	4,499.9	11.6	-13.5	-11.5	0.00	0.00	0.00
4,600.0	0.74	310.76	4,599.9	12.5	-14.5	-12.3	0.00	0.00	0.00
4,700.0	0.74	310.76	4,699.9	13.3	-15.4	-13.2	0.00	0.00	0.00
4,800.0	0.74	310.76	4,799.9	14.2	-16.4	-14.0	0.00	0.00	0.00
4,900.0	0.74	310.76	4,899.9	15.0	-17.4	-14.8	0.00	0.00	0.00
5,000.0	0.74	310.76	4,999.8	15.8	-18.4	-15.7	0.00	0.00	0.00
5,100.0	0.74	310.76	5,099.8	16.7	-19.4	-16.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
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)
5,200.0	0.74	310.76	5,199.8	17.5	-20.3	-17.3	0.00	0.00	0.00
5,300.0	0.74	310.76	5,299.8	18.4	-21.3	-18.2	0.00	0.00	0.00
5,400.0	0.74	310.76	5,399.8	19.2	-22.3	-19.0	0.00	0.00	0.00
5,500.0	0.74	310.76	5,499.8	20.1	-23.3	-19.8	0.00	0.00	0.00
5,600.0	0.74	310.76	5,599.8	20.9	-24.2	-20.7	0.00	0.00	0.00
5,700.0	0.74	310.76	5,699.8	21.7	-25.2	-21.5	0.00	0.00	0.00
5,800.0	0.74	310.76	5,799.8	22.6	-26.2	-22.3	0.00	0.00	0.00
5,900.0	0.74	310.76	5,899.8	23.4	-27.2	-23.2	0.00	0.00	0.00
6,000.0	0.74	310.76	5,999.8	24.3	-28.1	-24.0	0.00	0.00	0.00
6,100.0	0.74	310.76	6,099.8	25.1	-29.1	-24.8	0.00	0.00	0.00
6,200.0	0.74	310.76	6,199.7	26.0	-30.1	-25.7	0.00	0.00	0.00
6,300.0	0.74	310.76	6,299.7	26.8	-31.1	-26.5	0.00	0.00	0.00
6,400.0	0.74	310.76	6,399.7	27.6	-32.1	-27.3	0.00	0.00	0.00
6,500.0	0.74	310.76	6,499.7	28.5	-33.0	-28.2	0.00	0.00	0.00
6,600.0	0.74	310.76	6,599.7	29.3	-34.0	-29.0	0.00	0.00	0.00
6,700.0	0.74	310.76	6,699.7	30.2	-35.0	-29.8	0.00	0.00	0.00
6,800.0	0.74	310.76	6,799.7	31.0	-36.0	-30.7	0.00	0.00	0.00
6,900.0	0.74	310.76	6,899.7	31.8	-36.9	-31.5	0.00	0.00	0.00
7,000.0	0.74	310.76	6,999.7	32.7	-37.9	-32.3	0.00	0.00	0.00
7,100.0	0.74	310.76	7,099.7	33.5	-38.9	-33.1	0.00	0.00	0.00
7,200.0	0.74	310.76	7,199.7	34.4	-39.9	-34.0	0.00	0.00	0.00
7,300.0	0.74	310.76	7,299.7	35.2	-40.8	-34.8	0.00	0.00	0.00
7,400.0	0.74	310.76	7,399.6	36.1	-41.8	-35.6	0.00	0.00	0.00
7,500.0	0.74	310.76	7,499.6	36.9	-42.8	-36.5	0.00	0.00	0.00
7,600.0	0.74	310.76	7,599.6	37.7	-43.8	-37.3	0.00	0.00	0.00
7,700.0	0.74	310.76	7,699.6	38.6	-44.8	-38.1	0.00	0.00	0.00
7,800.0	0.74	310.76	7,799.6	39.4	-45.7	-39.0	0.00	0.00	0.00
7,900.0	0.74	310.76	7,899.6	40.3	-46.7	-39.8	0.00	0.00	0.00
8,000.0	0.74	310.76	7,999.6	41.1	-47.7	-40.6	0.00	0.00	0.00
8,100.0	0.74	310.76	8,099.6	42.0	-48.7	-41.5	0.00	0.00	0.00
8,200.0	0.74	310.76	8,199.6	42.8	-49.6	-42.3	0.00	0.00	0.00
8,300.0	0.74	310.76	8,299.6	43.6	-50.6	-43.1	0.00	0.00	0.00
8,400.0	0.74	310.76	8,399.6	44.5	-51.6	-44.0	0.00	0.00	0.00
8,500.0	0.74	310.76	8,499.6	45.3	-52.6	-44.8	0.00	0.00	0.00
8,600.0	0.74	310.76	8,599.5	46.2	-53.5	-45.6	0.00	0.00	0.00
8,700.0	0.74	310.76	8,699.5	47.0	-54.5	-46.5	0.00	0.00	0.00
8,800.0	0.74	310.76	8,799.5	47.8	-55.5	-47.3	0.00	0.00	0.00
8,900.0	0.74	310.76	8,899.5	48.7	-56.5	-48.1	0.00	0.00	0.00
9,000.0	0.74	310.76	8,999.5	49.5	-57.5	-49.0	0.00	0.00	0.00
9,100.0	0.74	310.76	9,099.5	50.4	-58.4	-49.8	0.00	0.00	0.00
9,200.0	0.74	310.76	9,199.5	51.2	-59.4	-50.6	0.00	0.00	0.00
9,300.0	0.74	310.76	9,299.5	52.1	-60.4	-51.5	0.00	0.00	0.00
9,400.0	0.74	310.76	9,399.5	52.9	-61.4	-52.3	0.00	0.00	0.00
9,500.0	0.74	310.76	9,499.5	53.7	-62.3	-53.1	0.00	0.00	0.00
9,600.0	0.74	310.76	9,599.5	54.6	-63.3	-54.0	0.00	0.00	0.00
9,700.0	0.74	310.76	9,699.5	55.4	-64.3	-54.8	0.00	0.00	0.00
9,800.0	0.74	310.76	9,799.4	56.3	-65.3	-55.6	0.00	0.00	0.00
9,900.0	0.74	310.76	9,899.4	57.1	-66.2	-56.5	0.00	0.00	0.00
10,000.0	0.74	310.76	9,999.4	58.0	-67.2	-57.3	0.00	0.00	0.00
10,100.0	0.74	310.76	10,099.4	58.8	-68.2	-58.1	0.00	0.00	0.00
10,200.0	0.74	310.76	10,199.4	59.6	-69.2	-59.0	0.00	0.00	0.00
10,300.0	0.74	310.76	10,299.4	60.5	-70.2	-59.8	0.00	0.00	0.00
10,400.0	0.74	310.76	10,399.4	61.3	-71.1	-60.6	0.00	0.00	0.00
10,500.0	0.74	310.76	10,499.4	62.2	-72.1	-61.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
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	0.74	310.76	10,599.4	63.0	-73.1	-62.3	0.00	0.00	0.00
10,700.0	0.74	310.76	10,699.4	63.8	-74.1	-63.1	0.00	0.00	0.00
10,781.7	0.74	310.76	10,781.1	64.5	-74.9	-63.8	0.00	0.00	0.00
10,800.0	0.37	310.76	10,799.4	64.7	-75.0	-63.9	2.00	-2.00	0.00
10,818.6	0.00	0.00	10,818.0	64.7	-75.0	-64.0	2.00	-2.00	0.00
KOP: 2434' FNL & 2200' FWL (Sec 13)									
10,850.0	3.14	180.01	10,849.3	63.8	-75.0	-63.1	10.00	10.00	0.00
10,900.0	8.14	180.01	10,899.1	58.9	-75.0	-58.2	10.00	10.00	0.00
10,950.0	13.14	180.01	10,948.2	49.7	-75.0	-49.0	10.00	10.00	0.00
11,000.0	18.13	180.01	10,996.3	36.2	-75.0	-35.5	10.00	10.00	0.00
11,050.0	23.13	180.01	11,043.1	18.6	-75.1	-17.9	10.00	10.00	0.00
11,100.0	28.13	180.01	11,088.2	-3.0	-75.1	3.7	10.00	10.00	0.00
11,150.0	33.13	180.01	11,131.2	-28.5	-75.1	29.2	10.00	10.00	0.00
11,200.0	38.13	180.01	11,171.8	-57.6	-75.1	58.3	10.00	10.00	0.00
11,250.0	43.13	180.01	11,209.8	-90.2	-75.1	90.9	10.00	10.00	0.00
11,300.0	48.13	180.01	11,244.7	-125.9	-75.1	126.6	10.00	10.00	0.00
11,350.0	53.13	180.01	11,276.4	-164.5	-75.1	165.3	10.00	10.00	0.00
11,400.0	58.13	180.01	11,304.6	-205.8	-75.1	206.5	10.00	10.00	0.00
11,450.0	63.13	180.01	11,329.1	-249.3	-75.1	250.1	10.00	10.00	0.00
11,500.0	68.13	180.01	11,349.8	-294.9	-75.1	295.6	10.00	10.00	0.00
11,550.0	73.13	180.01	11,366.3	-342.0	-75.1	342.7	10.00	10.00	0.00
11,600.0	78.13	180.01	11,378.8	-390.4	-75.1	391.2	10.00	10.00	0.00
11,650.0	83.13	180.01	11,386.9	-439.8	-75.2	440.5	10.00	10.00	0.00
11,700.0	88.13	180.01	11,390.7	-489.6	-75.2	490.3	10.00	10.00	0.00
11,719.2	90.05	180.01	11,391.0	-508.9	-75.2	509.6	10.00	10.00	0.00
LP/FTP: 2345' FSL & 2200' FWL (Sec 13)									
11,721.5	90.28	180.01	11,391.0	-511.1	-75.2	511.8	10.00	10.00	0.00
11,800.0	90.28	180.01	11,390.6	-589.6	-75.2	590.3	0.00	0.00	0.00
11,900.0	90.28	180.01	11,390.1	-689.6	-75.2	690.3	0.00	0.00	0.00
12,000.0	90.28	180.01	11,389.6	-789.6	-75.2	790.3	0.00	0.00	0.00
12,100.0	90.28	180.01	11,389.1	-889.6	-75.3	890.3	0.00	0.00	0.00
12,200.0	90.28	180.01	11,388.7	-989.6	-75.3	990.3	0.00	0.00	0.00
12,300.0	90.28	180.01	11,388.2	-1,089.6	-75.3	1,090.3	0.00	0.00	0.00
12,400.0	90.28	180.01	11,387.7	-1,189.6	-75.3	1,190.3	0.00	0.00	0.00
12,500.0	90.28	180.01	11,387.2	-1,289.6	-75.4	1,290.3	0.00	0.00	0.00
12,600.0	90.28	180.01	11,386.7	-1,389.6	-75.4	1,390.3	0.00	0.00	0.00
12,700.0	90.28	180.01	11,386.2	-1,489.6	-75.4	1,490.3	0.00	0.00	0.00
12,800.0	90.28	180.01	11,385.7	-1,589.6	-75.4	1,590.3	0.00	0.00	0.00
12,900.0	90.28	180.01	11,385.2	-1,689.6	-75.5	1,690.2	0.00	0.00	0.00
13,000.0	90.28	180.01	11,384.7	-1,789.6	-75.5	1,790.2	0.00	0.00	0.00
13,100.0	90.28	180.01	11,384.3	-1,889.6	-75.5	1,890.2	0.00	0.00	0.00
13,200.0	90.28	180.01	11,383.8	-1,989.6	-75.5	1,990.2	0.00	0.00	0.00
13,300.0	90.28	180.01	11,383.3	-2,089.6	-75.6	2,090.2	0.00	0.00	0.00
13,400.0	90.28	180.01	11,382.8	-2,189.6	-75.6	2,190.2	0.00	0.00	0.00
13,500.0	90.28	180.01	11,382.3	-2,289.6	-75.6	2,290.2	0.00	0.00	0.00
13,600.0	90.28	180.01	11,381.8	-2,389.6	-75.6	2,390.2	0.00	0.00	0.00
13,700.0	90.28	180.01	11,381.3	-2,489.6	-75.6	2,490.2	0.00	0.00	0.00
13,800.0	90.28	180.01	11,380.8	-2,589.6	-75.7	2,590.2	0.00	0.00	0.00
13,900.0	90.28	180.01	11,380.3	-2,689.6	-75.7	2,690.2	0.00	0.00	0.00
14,000.0	90.28	180.01	11,379.9	-2,789.6	-75.7	2,790.2	0.00	0.00	0.00
14,064.6	90.28	180.01	11,379.5	-2,854.2	-75.7	2,854.8	0.00	0.00	0.00
PPP2: 0' FNL & 2200' FWL (Sec 24)									
14,100.0	90.28	180.01	11,379.4	-2,889.6	-75.7	2,890.2	0.00	0.00	0.00

Planning Report

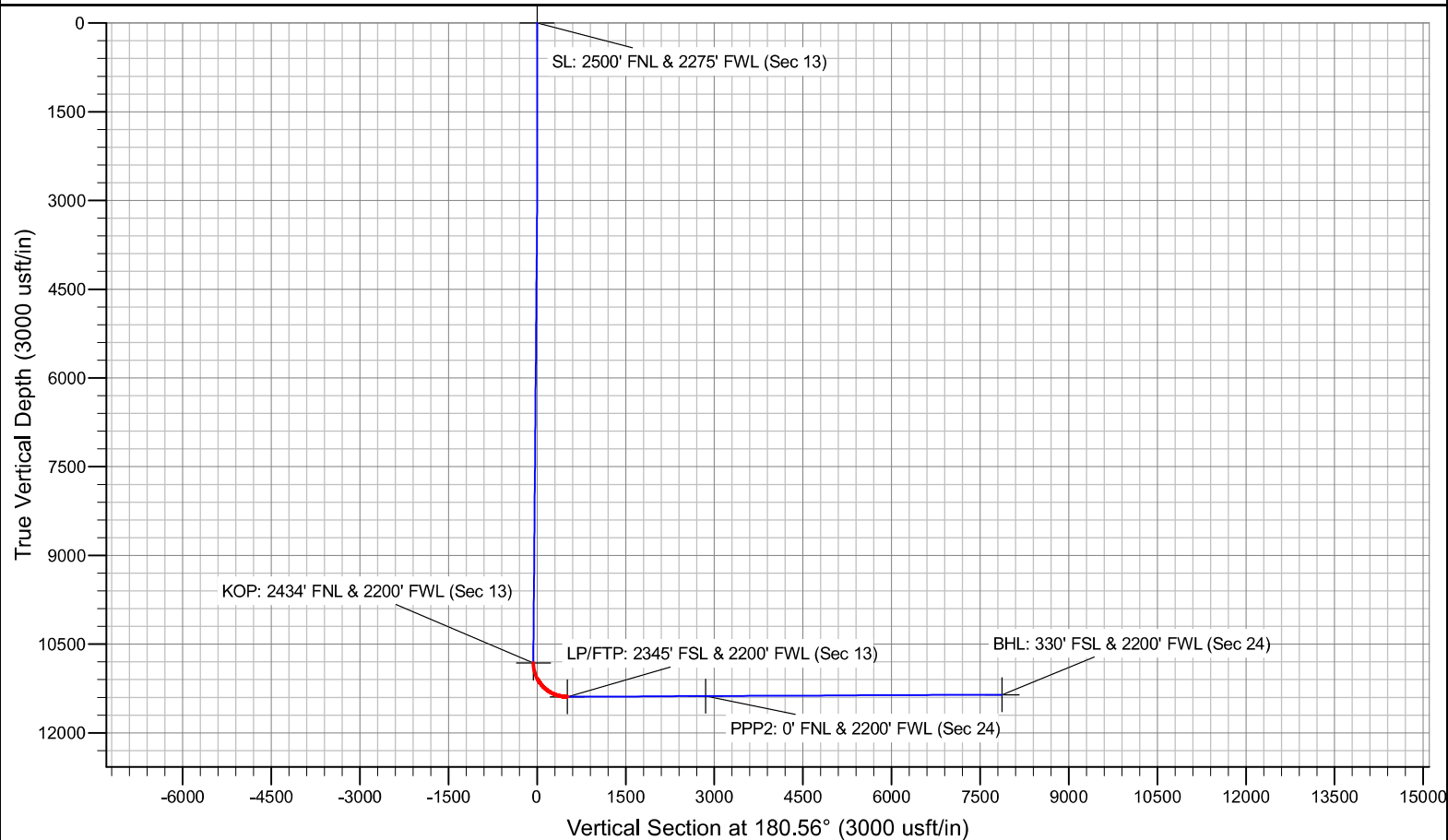
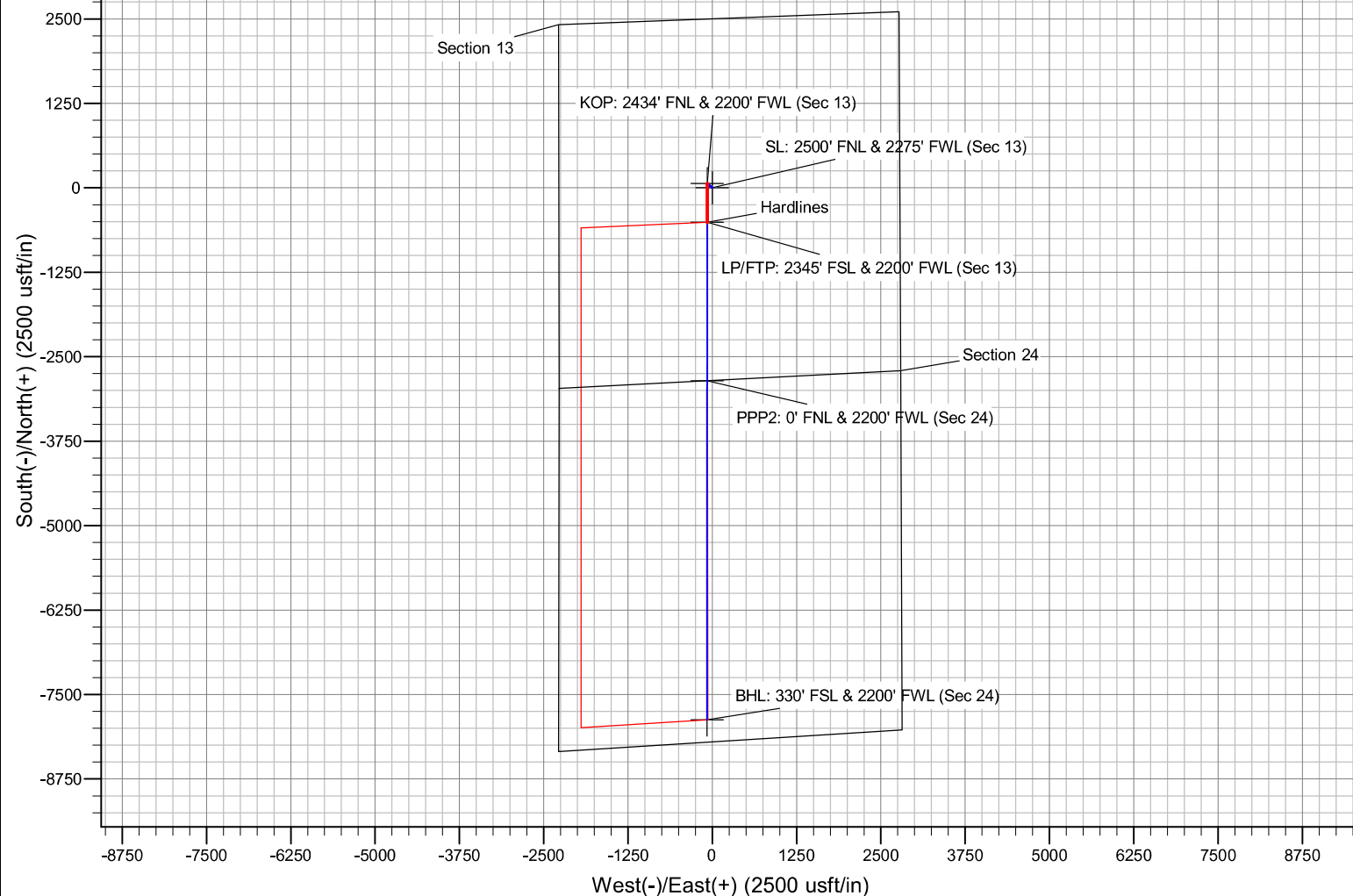
Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
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	90.28	180.01	11,378.9	-2,989.6	-75.8	2,990.2	0.00	0.00	0.00
14,300.0	90.28	180.01	11,378.4	-3,089.6	-75.8	3,090.2	0.00	0.00	0.00
14,400.0	90.28	180.01	11,377.9	-3,189.6	-75.8	3,190.2	0.00	0.00	0.00
14,500.0	90.28	180.01	11,377.4	-3,289.6	-75.8	3,290.2	0.00	0.00	0.00
14,600.0	90.28	180.01	11,376.9	-3,389.6	-75.9	3,390.1	0.00	0.00	0.00
14,700.0	90.28	180.01	11,376.4	-3,489.6	-75.9	3,490.1	0.00	0.00	0.00
14,800.0	90.28	180.01	11,375.9	-3,589.6	-75.9	3,590.1	0.00	0.00	0.00
14,900.0	90.28	180.01	11,375.5	-3,689.6	-75.9	3,690.1	0.00	0.00	0.00
15,000.0	90.28	180.01	11,375.0	-3,789.6	-76.0	3,790.1	0.00	0.00	0.00
15,100.0	90.28	180.01	11,374.5	-3,889.6	-76.0	3,890.1	0.00	0.00	0.00
15,200.0	90.28	180.01	11,374.0	-3,989.6	-76.0	3,990.1	0.00	0.00	0.00
15,300.0	90.28	180.01	11,373.5	-4,089.6	-76.0	4,090.1	0.00	0.00	0.00
15,400.0	90.28	180.01	11,373.0	-4,189.6	-76.1	4,190.1	0.00	0.00	0.00
15,500.0	90.28	180.01	11,372.5	-4,289.6	-76.1	4,290.1	0.00	0.00	0.00
15,600.0	90.28	180.01	11,372.0	-4,389.6	-76.1	4,390.1	0.00	0.00	0.00
15,700.0	90.28	180.01	11,371.5	-4,489.6	-76.1	4,490.1	0.00	0.00	0.00
15,800.0	90.28	180.01	11,371.1	-4,589.6	-76.1	4,590.1	0.00	0.00	0.00
15,900.0	90.28	180.01	11,370.6	-4,689.6	-76.2	4,690.1	0.00	0.00	0.00
16,000.0	90.28	180.01	11,370.1	-4,789.6	-76.2	4,790.1	0.00	0.00	0.00
16,100.0	90.28	180.01	11,369.6	-4,889.5	-76.2	4,890.1	0.00	0.00	0.00
16,200.0	90.28	180.01	11,369.1	-4,989.5	-76.2	4,990.1	0.00	0.00	0.00
16,300.0	90.28	180.01	11,368.6	-5,089.5	-76.3	5,090.0	0.00	0.00	0.00
16,400.0	90.28	180.01	11,368.1	-5,189.5	-76.3	5,190.0	0.00	0.00	0.00
16,500.0	90.28	180.01	11,367.6	-5,289.5	-76.3	5,290.0	0.00	0.00	0.00
16,600.0	90.28	180.01	11,367.1	-5,389.5	-76.3	5,390.0	0.00	0.00	0.00
16,700.0	90.28	180.01	11,366.7	-5,489.5	-76.4	5,490.0	0.00	0.00	0.00
16,800.0	90.28	180.01	11,366.2	-5,589.5	-76.4	5,590.0	0.00	0.00	0.00
16,900.0	90.28	180.01	11,365.7	-5,689.5	-76.4	5,690.0	0.00	0.00	0.00
17,000.0	90.28	180.01	11,365.2	-5,789.5	-76.4	5,790.0	0.00	0.00	0.00
17,100.0	90.28	180.01	11,364.7	-5,889.5	-76.5	5,890.0	0.00	0.00	0.00
17,200.0	90.28	180.01	11,364.2	-5,989.5	-76.5	5,990.0	0.00	0.00	0.00
17,300.0	90.28	180.01	11,363.7	-6,089.5	-76.5	6,090.0	0.00	0.00	0.00
17,400.0	90.28	180.01	11,363.2	-6,189.5	-76.5	6,190.0	0.00	0.00	0.00
17,500.0	90.28	180.01	11,362.7	-6,289.5	-76.6	6,290.0	0.00	0.00	0.00
17,600.0	90.28	180.01	11,362.3	-6,389.5	-76.6	6,390.0	0.00	0.00	0.00
17,700.0	90.28	180.01	11,361.8	-6,489.5	-76.6	6,490.0	0.00	0.00	0.00
17,800.0	90.28	180.01	11,361.3	-6,589.5	-76.6	6,590.0	0.00	0.00	0.00
17,900.0	90.28	180.01	11,360.8	-6,689.5	-76.6	6,690.0	0.00	0.00	0.00
18,000.0	90.28	180.01	11,360.3	-6,789.5	-76.7	6,790.0	0.00	0.00	0.00
18,100.0	90.28	180.01	11,359.8	-6,889.5	-76.7	6,889.9	0.00	0.00	0.00
18,200.0	90.28	180.01	11,359.3	-6,989.5	-76.7	6,989.9	0.00	0.00	0.00
18,300.0	90.28	180.01	11,358.8	-7,089.5	-76.7	7,089.9	0.00	0.00	0.00
18,400.0	90.28	180.01	11,358.3	-7,189.5	-76.8	7,189.9	0.00	0.00	0.00
18,500.0	90.28	180.01	11,357.9	-7,289.5	-76.8	7,289.9	0.00	0.00	0.00
18,600.0	90.28	180.01	11,357.4	-7,389.5	-76.8	7,389.9	0.00	0.00	0.00
18,700.0	90.28	180.01	11,356.9	-7,489.5	-76.8	7,489.9	0.00	0.00	0.00
18,800.0	90.28	180.01	11,356.4	-7,589.5	-76.9	7,589.9	0.00	0.00	0.00
18,900.0	90.28	180.01	11,355.9	-7,689.5	-76.9	7,689.9	0.00	0.00	0.00
19,000.0	90.28	180.01	11,355.4	-7,789.5	-76.9	7,789.9	0.00	0.00	0.00
19,083.8	90.28	180.01	11,355.0	-7,873.3	-76.9	7,873.7	0.00	0.00	0.00
BHL: 330' FSL & 2200' FWL (Sec 24)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/24 W2KN Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3029.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3029.0usft (Original Well Elev)
Site:	Fuller 13/24 W2KN Fed Com #2H	North Reference:	Grid
Well:	Sec. 13, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2200' FWL, Sec 24		
Design:	Design #1		

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
SL: 2500' FNL & 2275' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	379,466.92	663,766.10	32.0426188	-103.9382056
KOP: 2434' FNL & 2200' - plan hits target center - Point	0.00	0.00	10,818.0	64.7	-75.0	379,531.61	663,691.06	32.0427974	-103.9384471
BHL: 330' FSL & 2200' F - plan hits target center - Point	0.00	0.00	11,355.0	-7,873.3	-76.9	371,593.63	663,689.17	32.0209765	-103.9385468
PPP2: 0' FNL & 2200' F - plan hits target center - Point	0.00	0.00	11,379.5	-2,854.2	-75.7	376,612.71	663,690.37	32.0347736	-103.9384837
LP/FTP: 2345' FSL & 22 - plan hits target center - Point	0.00	0.00	11,391.0	-508.9	-75.2	378,958.07	663,690.93	32.0412208	-103.9384543



Intent ☒ As Drilled ☐

API #		
Operator Name: Mewbourne Oil Co.	Property Name: Fuller 13/24 W2KN Fed Com	Well Number 2H

Kick Off Point (KOP)

UL F	Section 13	Township 26S	Range 29E	Lot	Feet 2434	From N/S N	Feet 2200	From E/W W	County EDDY
Latitude 32.0427974					Longitude -103.9384471			NAD 83	

First Take Point (FTP)

UL K	Section 13	Township 26S	Range 29E	Lot	Feet 2345	From N/S S	Feet 2200	From E/W W	County EDDY
Latitude 32.0412208					Longitude -103.9384543			NAD 83	

Last Take Point (LTP)

UL N	Section 24	Township 26S	Range 29E	Lot	Feet 330	From N/S S	Feet 2200	From E/W W	County EDDY
Latitude 32.0209765					Longitude -103.9385468			NAD 83	

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

☒

Is this well an infill well?

☐

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

KZ 06/29/2018

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 known hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

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

1. Well Control Equipment
 - A. Choke manifold with minimum of one adjustable choke/remote choke.
 - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
 - C. Auxiliary equipment including annular type blowout preventer.
2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located in the dog house and at briefing areas.

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

3. Hydrogen Sulfide Protection and Monitoring Equipment

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

4. Visual Warning Systems

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

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

4. **Mud Program**

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

5. **Metallurgy**

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

6. **Communications**

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

7. **Well Testing**

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

8. **Emergency Phone Numbers**

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

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2nd Fax	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 13/24 W2KN 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 FACILITY **Disposal location ownership:** PRIVATE**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 FACILITY **Disposal location ownership:** PRIVATE**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

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** FULLER 13/24 W2KN 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_24W2KNFedCom2H_wellsitelayout_20211116112418.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** Fuller 13/24 W2KN & H3KN & B2KN 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

Action 206290

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 206290
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Notify OCD 24 hours prior to casing & cement	4/20/2023
john.harrison	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/20/2023
john.harrison	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	4/20/2023
john.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing	4/20/2023
john.harrison	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	4/20/2023