

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work:	<input checked="" type="checkbox"/> DRILL	<input type="checkbox"/> REENTER	7. If Unit or CA Agreement, Name and No.	
1b. Type of Well:	<input type="checkbox"/> Oil Well	<input checked="" type="checkbox"/> Gas Well	<input type="checkbox"/> Other	8. Lease Name and Well No.
1c. Type of Completion:	<input type="checkbox"/> Hydraulic Fracturing	<input checked="" type="checkbox"/> Single Zone	<input type="checkbox"/> Multiple Zone	MIMOSA RIDGE 6/4 FED COM 715H
2. Name of Operator	MEWBURNE OIL COMPANY			9. API Well No. 30-015-57584
3a. Address	3b. Phone No. (include area code) P O BOX 5270, HOBBS, NM 88241 (575) 393-5905			10. Field and Pool, or Exploratory WINCHESTER/WOLFCAMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *)	At surface NESW / 1980 FSL / 2260 FWL / LAT 32.5066599 / LONG -104.0241013 At proposed prod. zone NESE / 1800 FSL / 100 FEL / LAT 32.506168 / LONG -103.9813058			11. Sec., T. R. M. or Blk. and Survey or Area SEC 6/T21S/R29E/NMP
14. Distance in miles and direction from nearest town or post office*	8 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)	100 feet	16. No of acres in lease	17. Spacing Unit dedicated to this well 1200.0	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	20 feet	19. Proposed Depth	20. BLM/BIA Bond No. in file 10243 feet / 23479 feet FED: NMB106714150	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	3458 feet	22. Approximate date work will start*	23. Estimated duration 06/08/2025 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 05/08/2025
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Title
Regulatory

Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 11/07/2025
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Title Assistant Field Manager Lands & Minerals	Office Carlsbad Field Office
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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

(Continued on page 2)

*(Instructions on page 2)

Santa Fe Main Office
Phone: (505) 476-3441 Fax: (55) 476-3462

General Information
Phone: (505) 629-6116

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION

Revised July 9, 2024
Submit Electronically
via OCD Permitting

Submittal
Type:
 Initial Submittal
 Amended Report
 As Drilled

C-102

WELL LOCATION INFORMATION

API Number 30-015-57584	Pool Code 98315	Pool Name BURTON FLAT; UPPER WOLFCAMP EAST
Property Code 338290	Property Name MIMOSA RIDGE 6/4 FED	Well Number 715H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3458'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL K	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1980 FSL	Ft. from E/W 2260 FWL	Latitude 32.5066599N	Longitude 104.0241013W	County EDDY
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Bottom Hole Location

UL I	Section 4	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 100 FEL	Latitude 32.5061680N	Longitude 103.9813058W	County EDDY
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Dedicated Acres 1200	Infill or Defining Well INFILL	Defining Well API MIMOSA RIDGE 6/4 FED 714H	Overlapping Spacing Unit (Y/N) Y	Consolidation Code P
Order Numbers.		Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Kick Off Point (KOP)

UL K	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 1857 FWL	Latitude 32.5061652N	Longitude 104.0254053W	County EDDY
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First Take Point (FTP)

UL J	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 2540 FEL	Latitude 32.5061654N	Longitude 104.0235470W	County EDDY
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Last Take Point (LTP)

UL I	Section 4	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 100 FEL	Latitude 32.5061680N	Longitude 103.9813058W	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3458'
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Brett Miller

03/04/2025

Signature

Date

Brett Miller

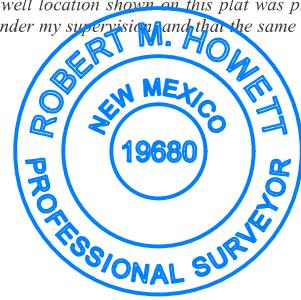
Printed Name

brett.miller@mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor

Certificate Number

19680

Date of Survey

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



CORNER DATA
 NAD 83 GRID - NM EAST

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:** 4/8/25

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
MIMOSA RIDGE 6/4 FED COM 715H		6 21S 29E	1980' FNL x 2260' FWL	1500	2500	3000
				Y1-300 Y2-200 Y3-100	Y1-1500 Y2-1000 Y3-500	Y1-500 Y2-350 Y3-200

IV. Central Delivery Point Name: MIMOSA RIDGE 6/4 FED COM 715H [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
MIMOSA RIDGE 6/4 FED COM 715H		5/8/25	6/8/25	7/8/25	7/23/25	7/28/25

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:

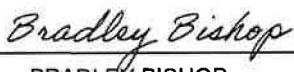
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit 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:	
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	4/8/25
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 be 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

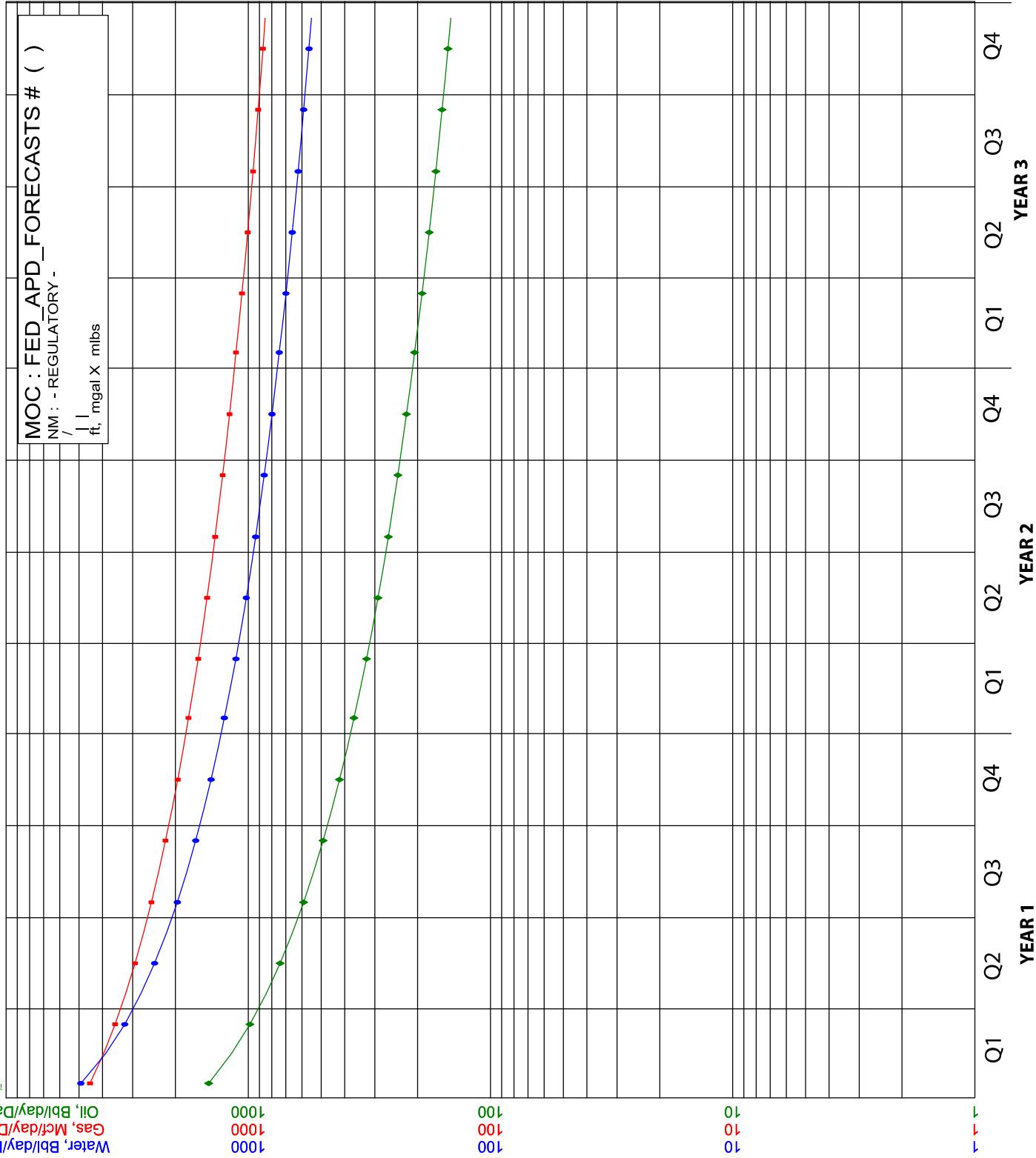
the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily 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.

Oil, Bbl/day	QuaHEDDYWFMP2.5	Ref= 1/2025
Cum=	43040	Rem=
EUR=	43040	Yrs=
Yrs=	3.00	Qi=
Qi=	1645.	b=
b=	0.95000	De=
De=	77.00000	Df=
Df=	24.15597	Qab=
Qab=	143.	

Gas, Mcf/day	QuaHEDDYWFMP2.5	Ref= 1/2025
Cum=	190343	Rem=
EUR=	1903434	Yrs=
Yrs=	3.000	Qi=
Qi=	4825.0	b=
b=	1.100000	De=
De=	62.500000	Df=
Df=	20.355806	Qab=
Qab=	841.9	

Water, Bbl/d	QuaHEDDYWFMP2.5	Ref= 1/2025
Cum=	1474750	Rem=
EUR=	1474750	Yrs=
Yrs=	3.000	Qi=
Qi=	5625.0	b=
b=	1.100000	De=
De=	77.000000	Df=
Df=	21.653105	Qab=
Qab=	542.2	



ECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBURNE OIL COMPANY
WELL NAME & NO.: MIMOSA RIDGE 6/4 FED COM 715H
APD ID: 10400104351
LOCATION: Section 6, T21S, R29E. NMP.
COUNTY: Eddy County, New Mexico

COA

H ₂ S	<input type="radio"/> No <input checked="" type="radio"/> Yes			
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus <input type="checkbox"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input type="checkbox"/> EchoMeter	<input checked="" type="checkbox"/> DV Tool
Special Req	<input checked="" type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input checked="" type="radio"/> Waste Min. Plan	<input type="radio"/> APD Submitted prior to 06/10/2024	
Additional Language	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input checked="" type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated **at spud**. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design

Note: The surface casing set depth was adjusted based on recommendation from the BLM geologist. *"The operator proposes to set surface casing at 725 feet which which will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 975 feet. If salt is encountered, set casing at least 25 feet above the salt."*

1. The **18-5/8-inch** surface casing shall be set at approximately **975 ft.** (a minimum of 70 ft. into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi 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 **13-3/8** inch 1st intermediate casing shall be set in a competent bed at approximately **1,975 ft**. The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:

- **Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef**.

Note: The 2nd intermediate casing set depth was adjusted based on recommendation from the BLM geologist. *"The operator proposes to set second intermediate casing at 3798 feet which will be in the Bell Canyon FM. Instead, set second intermediate casing at a depth of approximately 3164 feet to avoid possible lost circulation."*

3. The **9-5/8** inch 2nd intermediate casing shall be set in a competent bed at approximately **3,164 ft**. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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 and Capitan Reef**.

Option 2 (Two-Stage): The operator has proposed utilize a DV tool. The selected depth is below the Salado and is an acceptable set point. Operator may adjust depth of DV tool if it remains below the Salado and cement volumes are adjusted accordingly. 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 **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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 and Capitan Reef**.

- ❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.

Note: Excess cement for the 2nd stage is below %25. More cement might be needed.

4. Operator has proposed to set **7-5/8 inch** production casing at approximately **9,556 ft.** (9,543 ft. TVD). The minimum required fill of cement behind the **7-5/8 inch** production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst and Capitan Reef**.
5. The minimum required fill of cement behind the **5-1/2 inch** production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Alternate Casing Design

Note: The surface casing set depth was adjusted based on recommendation from the BLM geologist. *“The operator proposes to set surface casing at 725 feet which which will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 975 feet. If salt is encountered, set casing at least 25 feet above the salt.”*

1. The **18-5/8-inch** surface casing shall be set at approximately **975 ft.** (a minimum of 70 ft. into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - 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.
 - Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - 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.
 - If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **13-3/8** inch 1st intermediate casing shall be set in a competent bed at approximately **1,975 ft.** The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:
 - Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef**.

Note: The 2nd intermediate casing set depth was adjusted based on recommendation from the BLM geologist. “*The operator proposes to set second intermediate casing at 3798 feet which will be in the Bell Canyon FM. Instead, set second intermediate casing at a depth of approximately 3164 feet to avoid possible lost circulation.*”

3. The 9-5/8 inch 2nd intermediate casing shall be set in a competent bed at approximately **3,164 ft.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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 and Capitan Reef**.

Option 2 (Two-Stage): The operator has proposed utilize a DV tool. The selected depth is below the Salado and is an acceptable set point. Operator may adjust depth of DV tool if it remains below the Salado and cement volumes are adjusted accordingly. 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 **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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 and Capitan Reef**.

❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.

Note: Excess cement for the 2nd stage is below %25. More cement might be needed.

4. Operator has proposed to set **7-5/8 inch** production casing at approximately **10,456 ft.** (10,116 ft. TVD). The minimum required fill of cement behind the **7-5/8 inch** production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst and Capitan Reef**.

5. The minimum required fill of cement behind the **5-1/2 inch** production liner is:

- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the

casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Eddy County: 575-361-2822**.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. 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. Before drilling the surface casing shoe out, the BOP/BOPE shall be pressure-tested in accordance with **title 43 CFR 3172**.
 - 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 43 CFR 3172 must be followed.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822.

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** 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 doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity 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-Q 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 **43 CFR 3172**.
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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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 cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- ii. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 **43 CFR 3172**.

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.

SA 11/06/2025



Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: MELONY LEAL

Signed on: 05/08/2025

Title: Analyst

Street Address: 4801 BUSINESS PARK BLVD

City: HOBBS **State:** NM

Zip: 88240

Phone: (575)393-5905

Email address: MLEAL@MEWBURNE.COM

Field

Representative Name:

Street Address:

City:

Phone:

Email address:



APD ID: 10400104351

Submission Date: 05/08/2025

Operator Name: MEWBOURNE OIL COMPANY

Highlighted data
reflects the most
recent changes

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - General

APD ID: 10400104351 Tie to previous NOS? N Submission Date: 05/08/2025

BLM Office: Carlsbad User: MELONY LEAL Title: Analyst

Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM029588 Lease Acres:

Surface access agreement in place? Allotted? Reservation:

Agreement in place? NO Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO APD Operator: MEWBOURNE OIL COMPANY

Operator letter of

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: P O BOX 5270

Zip: 88241

Operator PO Box:

Operator City: HOBBS State: NM

Operator Phone: (575)393-5905

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

Well API Number:

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** MIMOSA RIDGE 6/4 FED COM**Well Number:** 715H**Is the proposed well in an area containing other mineral resources?** NONE**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** N **New surface disturbance?****Type of Well Pad:** MULTIPLE WELL**Multiple Well Pad Name:**
MIMOSA RIDGE 6/4 FED COM
714 715 716
Number of Legs: 1**Number:** 3**Well Class:** HORIZONTAL**Well Work Type:** Drill**Well Type:** CONVENTIONAL GAS WELL**Describe Well Type:****Well sub-Type:** EXPLORATORY (WILDCAT)**Describe sub-type:****Distance to town:** 8 Miles**Distance to nearest well:** 20 FT**Distance to lease line:** 100 FT**Reservoir well spacing assigned acres Measurement:** 1200 Acres**Well plat:** MIMOSA_RIDGE_6_4_FED_715H_C102_NEW_FORM_20250409075308.pdf

MIMOSA_RIDGE_6_4_FED_715H_C102_NEW_FORM_20250925100332.pdf

Well work start Date: 06/08/2025**Duration:** 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR**Describe Survey Type:****Datum:** NAD83**Vertical Datum:** NAVD88**Survey number:****Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	1980	FSL	2260	FW	21S	29E	6	Aliquot NESW	32.5066599	-104.0241013	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 029588	3458			Y
KOP Leg	1800	FSL	1857	FW L	21S	29E	6	Aliquot NESW	32.5061652	-104.0254053	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 029588	-6085	9556	9543	Y

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	1800	FSL	2540	FEL	21S	29E	6	Aliquot NWSE	32.5061654	-104.023547	EDD	NEW MEXICO	NEW MEXICO	F	NMNM 029588	-6658	10456	10116	Y
EXIT Leg #1	1800	FSL	100	FEL	21S	29E	4	Aliquot NESE	32.506168	-103.9813058	EDD	NEW MEXICO	NEW MEXICO	F	NMNM 029588	-6785	23479	10243	Y
BHL Leg #1	1800	FSL	100	FEL	21S	29E	4	Aliquot NESE	32.506168	-103.9813058	EDD	NEW MEXICO	NEW MEXICO	F	NMNM 029588	-6785	23479	10243	Y

Santa Fe Main Office
Phone: (505) 476-3441 Fax: (55) 476-3462

General Information
Phone: (505) 629-6116

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION

C-102
Revised July 9, 2024
Submit Electronically
via OCD Permitting

Submittal
Type:

Initial Submittal
 Amended Report
 As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code 98315	Pool Name BURTON FLAT; UPPER WOLFCAMP EAST
Property Code	Property Name MIMOSA RIDGE 6/4 FED	Well Number 715H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3458'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL K	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1980 FSL	Ft. from E/W 2260 FWL	Latitude 32.5066599N	Longitude 104.0241013W	County EDDY
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Bottom Hole Location

UL I	Section 4	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 100 FEL	Latitude 32.5061680N	Longitude 103.9813058W	County EDDY
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Dedicated Acres 1200	Infill or Defining Well INFILL	Defining Well API MIMOSA RIDGE 6/4 FED 714H	Overlapping Spacing Unit (Y/N) Y	Consolidation Code P
Order Numbers.		Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Kick Off Point (KOP)

UL K	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 1857 FWL	Latitude 32.5061652N	Longitude 104.0254053W	County EDDY
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First Take Point (FTP)

UL J	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 2540 FEL	Latitude 32.5061654N	Longitude 104.0235470W	County EDDY
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Last Take Point (LTP)

UL I	Section 4	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 100 FEL	Latitude 32.5061680N	Longitude 103.9813058W	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3458'
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Brett Miller

03/04/2025

Signature

Date

Brett Miller

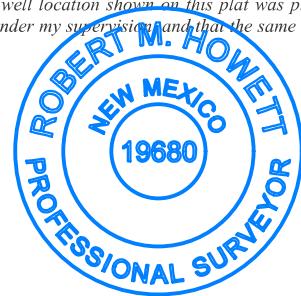
Printed Name

brett.miller@mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number

19680

Date of Survey

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



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CORNER DATA
 NAD 83 GRID - NM EAST

Santa Fe Main Office
Phone: (505) 476-3441 Fax: (55) 476-3462

General Information
Phone: (505) 629-6116

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION

C-102
Revised July 9, 2024
Submit Electronically
via OCD Permitting

Submittal
Type:

Initial Submittal
 Amended Report
 As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code 98315	Pool Name BURTON FLAT; UPPER WOLFCAMP EAST
Property Code	Property Name MIMOSA RIDGE 6/4 FED	Well Number 715H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3458'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL K	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1980 FSL	Ft. from E/W 2260 FWL	Latitude 32.5066599N	Longitude 104.0241013W	County EDDY
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Bottom Hole Location

UL I	Section 4	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 100 FEL	Latitude 32.5061680N	Longitude 103.9813058W	County EDDY
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Dedicated Acres 1200	Infill or Defining Well INFILL	Defining Well API MIMOSA RIDGE 6/4 FED 714H	Overlapping Spacing Unit (Y/N) Y	Consolidation Code P
Order Numbers.		Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Kick Off Point (KOP)

UL K	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 1857 FWL	Latitude 32.5061652N	Longitude 104.0254053W	County EDDY
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First Take Point (FTP)

UL J	Section 6	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 2540 FEL	Latitude 32.5061654N	Longitude 104.0235470W	County EDDY
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Last Take Point (LTP)

UL I	Section 4	Township 21S	Range 29E	Lot	Ft. from N/S 1800 FSL	Ft. from E/W 100 FEL	Latitude 32.5061680N	Longitude 103.9813058W	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3458'
---	--	----------------------------------

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Brett Miller

03/04/2025

Signature

Date

Brett Miller

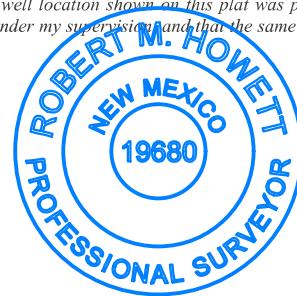
Printed Name

brett.miller@mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number

19680

Date of Survey

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete

GEOGRAPHIC DATA

NAD 83 GRID - NM EAST

SURFACE LOCATION
N: 548191.9 - E: 636665.1

LAT: 32.5066599° N
LONG: 104.0241013° W

KICK OFF POINT (KOP)
1800' FSL - 1857' FWL SEC.6
N: 548010.7 - E: 636263.6

LAT: 32.5061652° N
LONG: 104.0254053° W

FIRST TAKE POINT (FTP)
1800' FSL - 2540' FEL SEC.6
N: 548012.5 - E: 636836.5

LAT: 32.5061654° N
LONG: 104.0235470° W

BOTTOM HOLE (BH)
N: 548053.8 - E: 649858.4

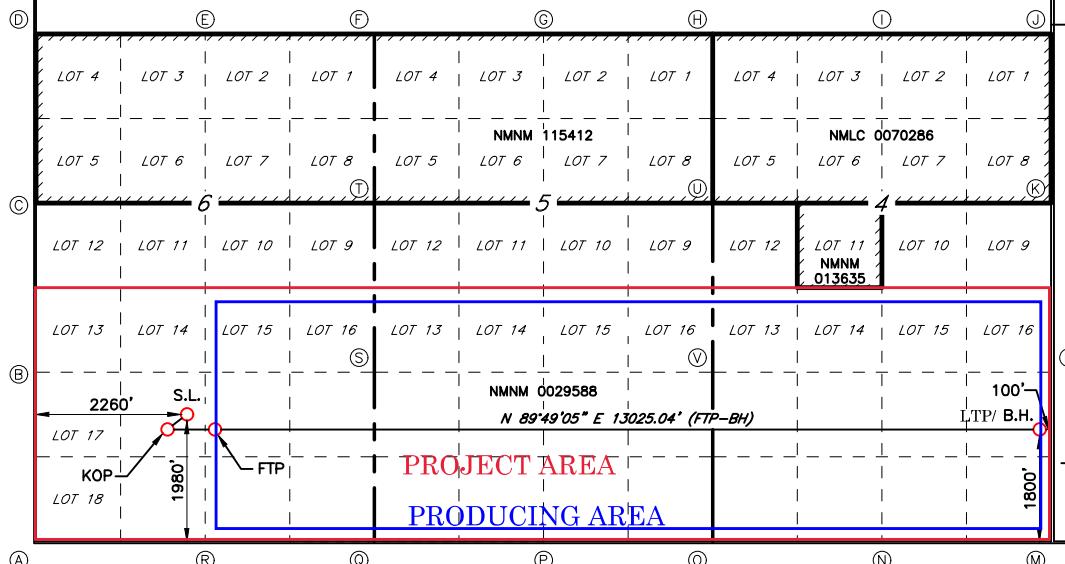
LAT: 32.5061680° N
LONG: 103.9813058° W

John Smith

02/17/2025

John Smith

john.smith@mewbourne.com



02/28/2023



19680

Job No: LS23020186

CORNER DATA

NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1916"
N: 546205.6 - E: 634420.1

L: FOUND BRASS CAP "1916 & 1959"
N: 548896.5 - E: 649955.9

B: FOUND BRASS CAP "1916"
N: 548841.9 - E: 634400.9

M: FOUND BRASS CAP "1916 & 1959"
N: 546254.2 - E: 649963.6

C: FOUND BRASS CAP "1960"
N: 551482.4 - E: 634395.2

N: FOUND BRASS CAP "1960"
N: 546255.9 - E: 647313.9

D: FOUND BRASS CAP "1916"
N: 553987.1 - E: 634392.9

O: FOUND BRASS CAP "1916"
N: 546236.1 - E: 644689.6

E: FOUND BRASS CAP "1916"
N: 553992.3 - E: 636719.0

P: FOUND BRASS CAP "1916"
N: 546227.9 - E: 642036.6

F: FOUND BRASS CAP "1916"
N: 553998.1 - E: 639357.4

Q: FOUND BRASS CAP "1916"
N: 546220.8 - E: 639381.7

G: FOUND BRASS CAP "1916"
N: 554003.4 - E: 642017.0

R: FOUND BRASS CAP "1916"
N: 546212.6 - E: 636741.8

H: CALCULATED CORNER
N: 554007.4 - E: 644672.8

S: FOUND BRASS CAP "1916"
N: 548858.8 - E: 639373.5

I: FOUND BRASS CAP "1916"
N: 554013.4 - E: 647309.4

T: FOUND BRASS CAP "1960"
N: 551505.4 - E: 639365.1

J: FOUND BRASS CAP "1916 & 1960"
N: 554017.7 - E: 649941.8

U: FOUND BRASS CAP "1960"
N: 551517.3 - E: 644677.9

K: FOUND BRASS CAP "1960"
N: 551538.5 - E: 649948.6

V: FOUND BRASS CAP "1916"
N: 548879.4 - E: 644683.5



APD ID: 10400104351

Submission Date: 05/08/2025

Highlighted data
reflects the most
recent changes

Operator Name: MEWBURNE OIL COMPANY

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

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 Formation
16740606	UNKNOWN	3510	28	28	OTHER : Topsoil	NONE	N
16740610	RUSTLER	2503	1007	1007	ANHYDRITE, DOLOMITE	USEABLE WATER	N
16740597	TOP SALT	2218	1292	1292	SALT	NONE	N
16740598	BASE OF SALT	1803	1707	1707	SALT	NONE	N
16740600	YATES	1625	1885	1885	SANDSTONE	NATURAL GAS, OIL	N
16740607	CAPITAN REEF	1360	2150	2150	DOLOMITE, LIMESTONE	USEABLE WATER	N
16740599	LAMAR	-363	3873	3873	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	N
16740601	BONE SPRING	-3162	6672	6672	LIMESTONE	NATURAL GAS, OIL	N
16740602	BONE SPRING 1ST	-4125	7635	7635	SANDSTONE	NATURAL GAS, OIL	N
16740603	BONE SPRING 2ND	-4708	8218	8218	SANDSTONE	NATURAL GAS, OIL	N
16740604	BONE SPRING 3RD	-6017	9527	9527	SANDSTONE	NATURAL GAS, OIL	N
16740605	WOLFCAMP	-6421	9931	9931	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 23479

Equipment: Annular, Pipe Rams, Blind Rams, 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.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test info.

Hydrostatic testing is not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 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.

Choke Diagram Attachment:

5M_BOPE_Choke_Diagram_20250409075619.pdf

Flex_Line_Specs_API_16C_20250409075629.pdf

5M_BOPE_Choke_Diagram_20250925100449.pdf

Flex_Line_Specs_API_16C_20250925100519.pdf

HP250066_20251017115711.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20250409075633.pdf

MOC_Break_Testing_Variance_20250409075644.pdf

MOC_Break_Testing_Variance_20250925100540.pdf

MOC_Offline_Cementing_Variance_20250925100540.pdf

5M_BOPE_Schematic_20250925100540.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	26	18.625	NEW	API	N	0	725	0	725	3458	2733	725	J-55	87.5	OTHER - BTC	1.94	6.94	DRY	20.95	DRY	21.55
2	INTERMEDIATE	17.5	13.375	NEW	API	N	0	1290	0	1290	3192	2168	1290	H-40	48	ST&C	1.13	2.53	DRY	3.23	DRY	5.42
3	INTERMEDIATE	17.5	13.75	NEW	API	N	1290	1893	1290	1893	2151	1565	603	J-55	54.5	ST&C	1.13	2.72	DRY	13.57	DRY	22.53
4	INTERMEDIATE	17.5	13.375	NEW	API	N	1893	1975	1893	1975	1568	1483	82	J-55	61	ST&C	1.47	2.95	DRY	99.99	DRY	99.99
5	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3798	0	3798	2982	-340	3798	J-55	36	LT&C	1.19	2.07	DRY	3.31	DRY	4.12
6	PRODUCTION	8.75	7.625	NEW	API	N	0	9556	0	9543	3458	-6085	9556	HCP-110	29.7	OTHER - GBCD	1.51	1.97	DRY	2.71	DRY	3.31

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

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
7	LINER	6.125	5.5	NEW	API	N	9356	23479	9327	10243	-5866	-6785	14123	P-110	20	OTHER - TALON	1.81	2.07	DRY	1.94	DRY	2.27

Casing Attachments

Casing ID: 1 String SURFACE

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

18.625in_87.5__J55_BTC_Csg_20250409080123.pdf

18.625in_87.5_J55_BTC_Csg_20250925101016.pdf

Casing ID: 2 String INTERMEDIATE

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

13.375in_48_H40_STC_Csg_20250925100921.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

Casing Attachments

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in_54.5_J55_STC_Csg_20250925100942.pdf

Casing ID: 4 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in_61_J55_STC_Csg_20250925100823.pdf

Casing ID: 5 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_36_J55_LTC_Csg_20250925100901.pdf

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** MIMOSA RIDGE 6/4 FED COM**Well Number:** 715H**Casing Attachments****Casing ID:** 6 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

7.625in_29.7_HCP110_GBCD_Slim_Csg_20250925100751.pdf

Casing ID: 7 **String** LINER**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

5.5in_20_HPP110_Talon_Csg_20250925101001.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	650	1110	2.12	12.5	2360	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		650	725	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	2125	0	1690	750	2.12	12.5	1590	50	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1690	1975	200	1.34	14.8	268	50	Class C	Retarder
INTERMEDIATE	Lead	2125	0	1775	320	2.12	12.5	680	25	Class C	Salt, Gel, Extender, LCM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		1775	2125	100	1.34	14.8	134	25	Class C	Retarder
INTERMEDIATE	Lead	2125	2125	3137	190	2.12	12.5	410	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		3137	3798	200	1.34	14.8	268	25	Class C	Retarder
LINER	Lead		9356	2347 8	800	1.85	13.5	1480	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or 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. Will be tested in accordance with 43 CFR Part 3172.

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	725	SPUD MUD	8.4	8.6							
725	1975	SALT SATURATED	10	10.2							

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

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
3798	1045 6	SALT SATURATED	8.6	9.7							MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.
1045 6	2347 8	OIL-BASED MUD	10	11.5							

Section 6 - Test, Logging, Coring

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

No logs are planned based on well control or offset log information. Offset Well: Mimosa Ridge 6/4 Fed #714H

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

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6125

Anticipated Surface Pressure: 3871

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

H2S_Plan_20250408102723.pdf

H2S_Plan_20250925101057.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

MIMOSA RIDGE_6_4_FED_715H_MOC_Dir_Plan_20250409080545.pdf
MIMOSA RIDGE_6_4_FED_715H_MOC_Dir_Plot_20250409080550.pdf
MIMOSA RIDGE_6_4_FED_715H_MOC_Dir_Plot_20250925101118.pdf
MIMOSA RIDGE_6_4_FED_715H_MOC_Dir_Plan_20250925101118.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

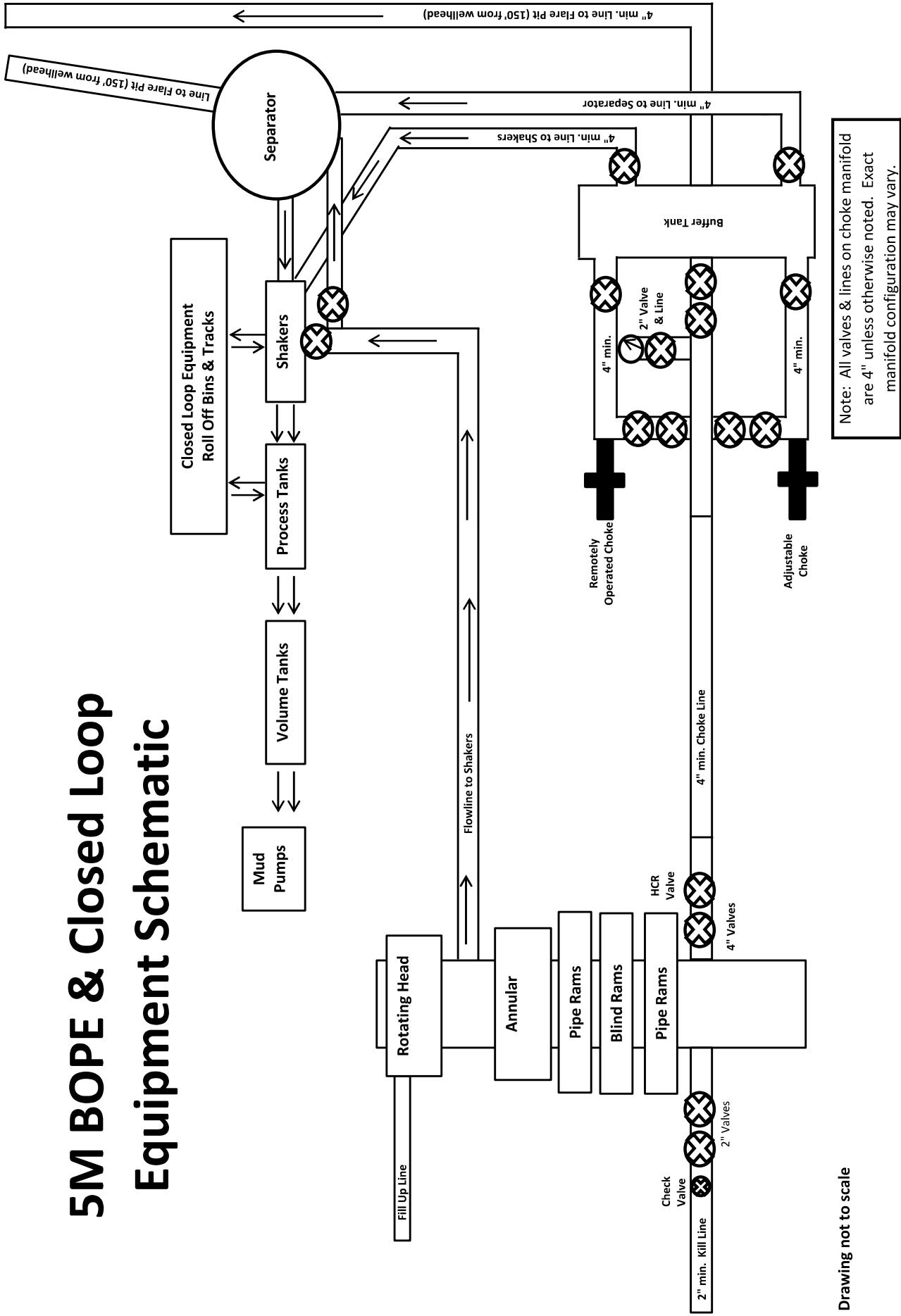
MIMOSA RIDGE_6_4_FED_715H_NGMP_20250612090447.pdf
Mimosa_Ridge_6_4_Fed_715H_Drlg_Program_20250612090529.pdf
Mimosa_Ridge_6_4_Fed_715H_CsgAssumptions_20250612090529.pdf
Mimosa_Ridge_6_4_Fed_715H_Drlg_Program_20250925101151.pdf
Mimosa_Ridge_6_4_Fed_715H_CsgAssumptions_20250925101151.pdf
MIMOSA RIDGE_6_4_FED_715H_NGMP_20250925101152.pdf

Other Variance request(s): Y

Other Variance attachment:

MOC_Break_Testing_Variance_20250612090553.pdf
MOC_Offline_Cementing_Variance_20250612090553.pdf
MOC_Offline_Cementing_Variance_20250925101202.pdf
MOC_Break_Testing_Variance_20250925101202.pdf

5M BOPE & Closed Loop Equipment Schematic





LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

No: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3"×10000psi×60ft (18.29m)	Serial Number	7660144
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2023.08.26

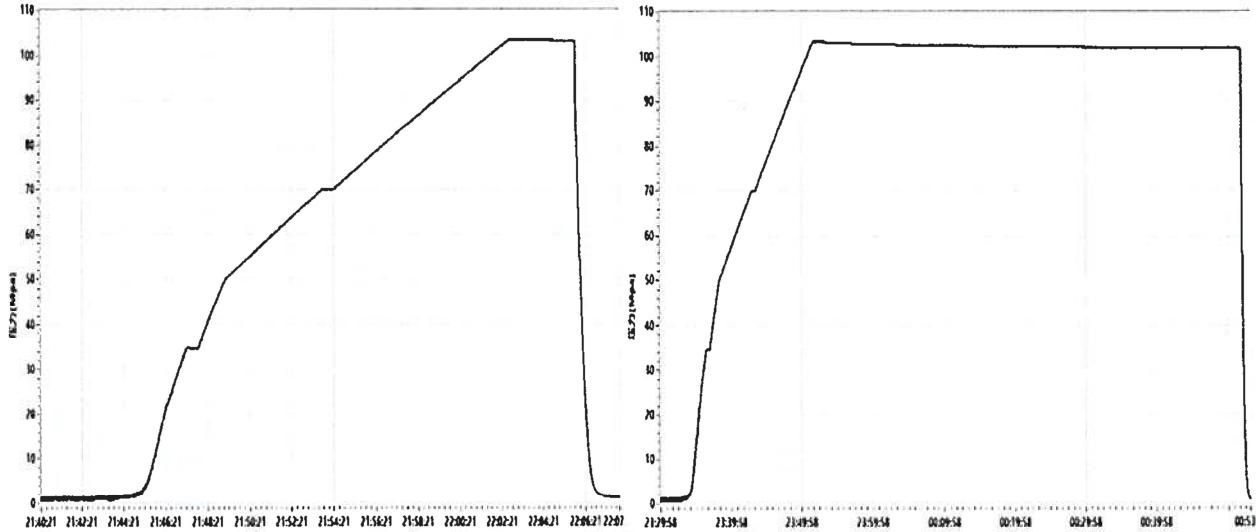
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than $\pm 2\%$
Testing result	10000psi (69.0MPa) ,Rate of length change 0.7%

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition				
Approver	Jiaolong Chen	Auditor	Huiying Dong	Inspector	Zhansheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

No: LT2023-126-002

Customer Name	Austin Hose		
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×60ft (18.29m)	Quantity	2PCS
Serial Number	7660143~7660144	FSL	FSL3
Temperature Range	-29°C ~ +121°C	Standard	API Spec 16C 3 rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3 rd edition
Size and Lengths	In accordance with API Spec 16C 3 rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3 rd edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21 st edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3 rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3 rd edition
product Marking	In accordance with API Spec 16C 3 rd edition
Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition
Remarks	
Approver	Jiaolong Chen
Auditor	Huijing Dong
Inspector	Zhansheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD
CERTIFICATE OF CONFORMANCE

No:LT230826016

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×60ft (18.29m)

Serial Number: 7660143~7660144

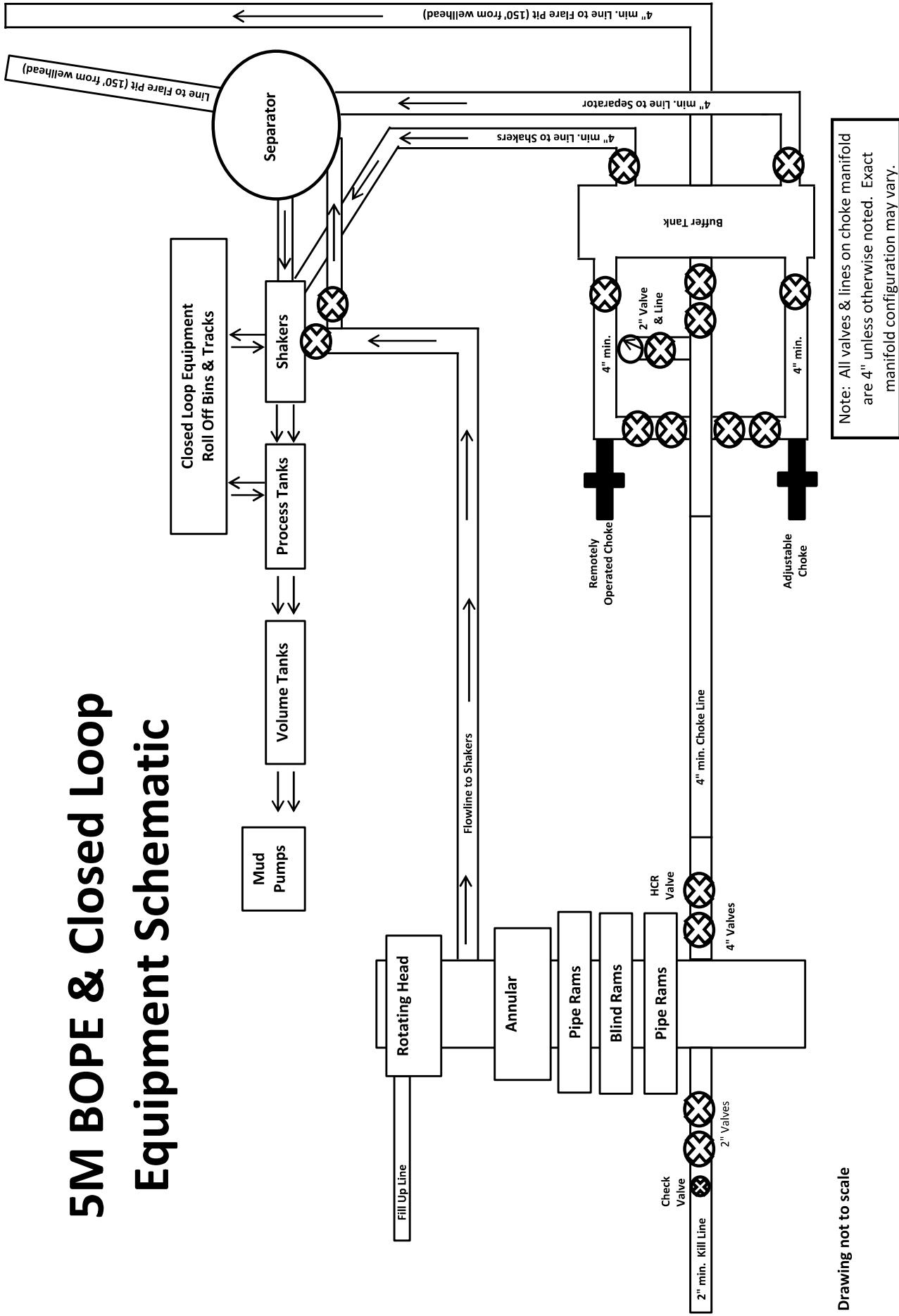
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD . in Aug 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Aug 26, 2023. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

Jiaolong Chen
QC Manager:

Date:Aug 26, 2023

5M BOPE & Closed Loop Equipment Schematic





LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

No: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3"×10000psi×60ft (18.29m)	Serial Number	7660144
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2023.08.26

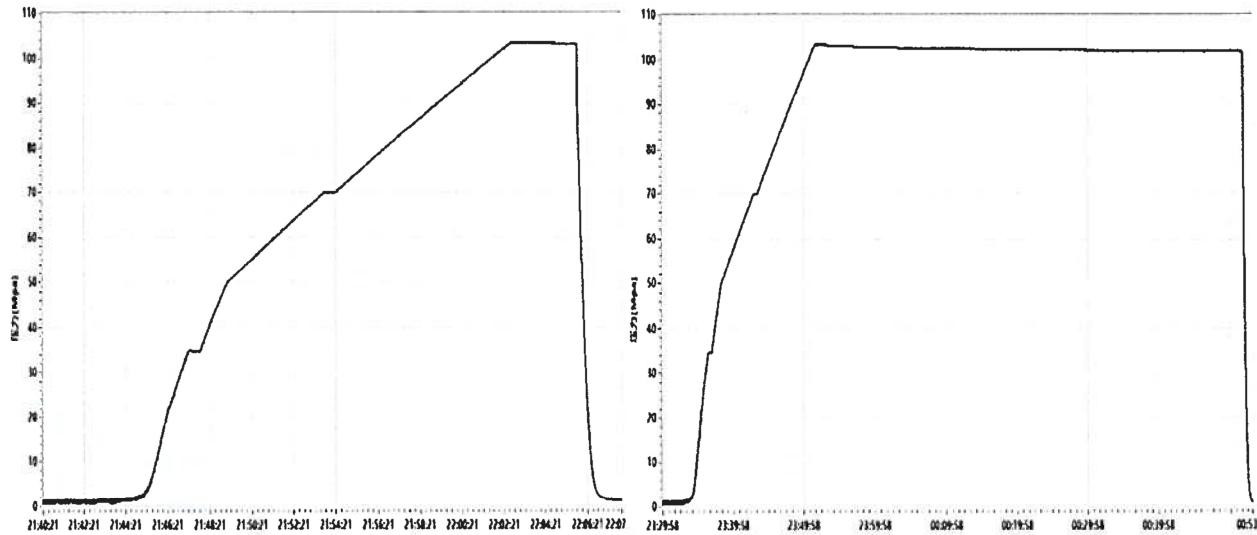
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than $\pm 2\%$
Testing result	10000psi (69.0MPa) ,Rate of length change 0.7%

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition				
Approver	Jiaolong Chen	Auditor	Huiying Dong	Inspector	Zhansheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

No: LT2023-126-002

Customer Name	Austin Hose		
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×60ft (18.29m)	Quantity	2PCS
Serial Number	7660143~7660144	FSL	FSL3
Temperature Range	-29°C ~ +121°C	Standard	API Spec 16C 3 rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3 rd edition
Size and Lengths	In accordance with API Spec 16C 3 rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3 rd edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21 st edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3 rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3 rd edition
product Marking	In accordance with API Spec 16C 3 rd edition
Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition
Remarks	
Approver	Jiaolong Chen
Auditor	Huijing Dong
Inspector	Zhansheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD
CERTIFICATE OF CONFORMANCE

No:LT230826016

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×60ft (18.29m)

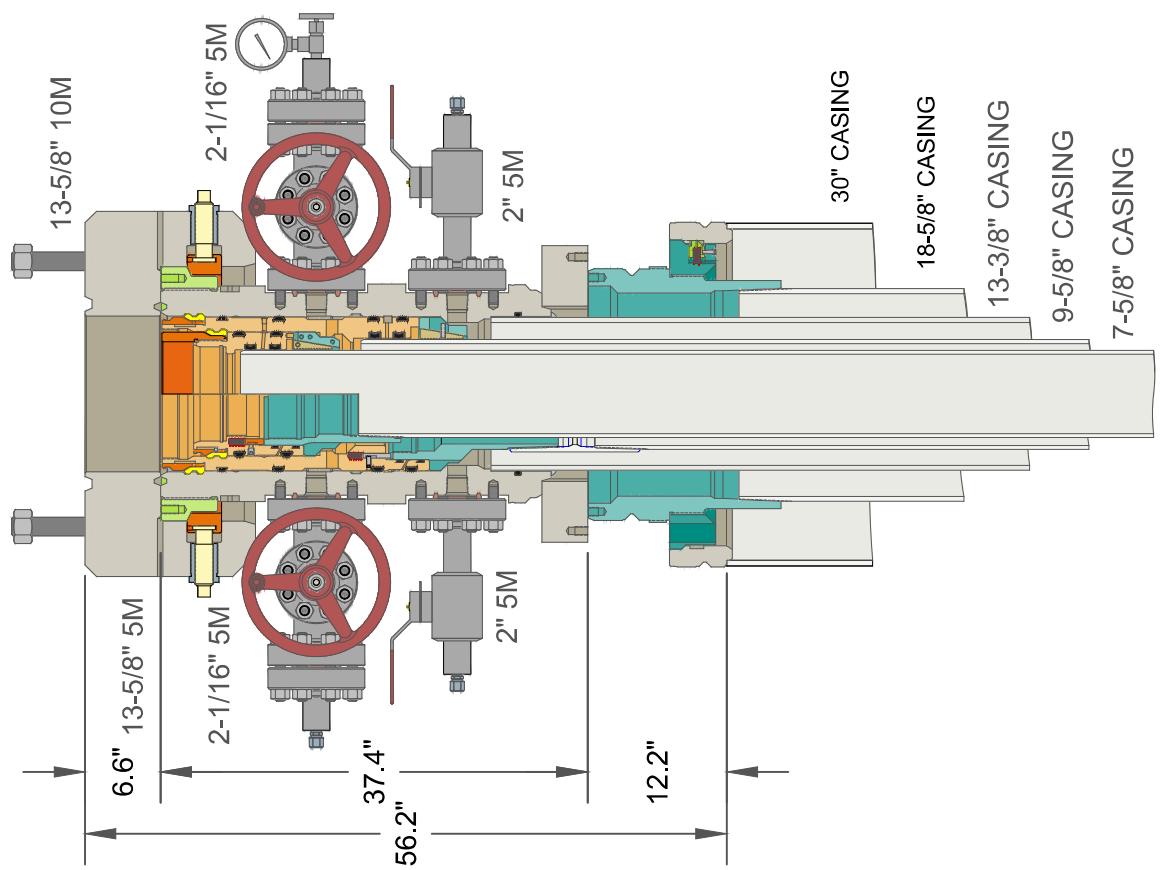
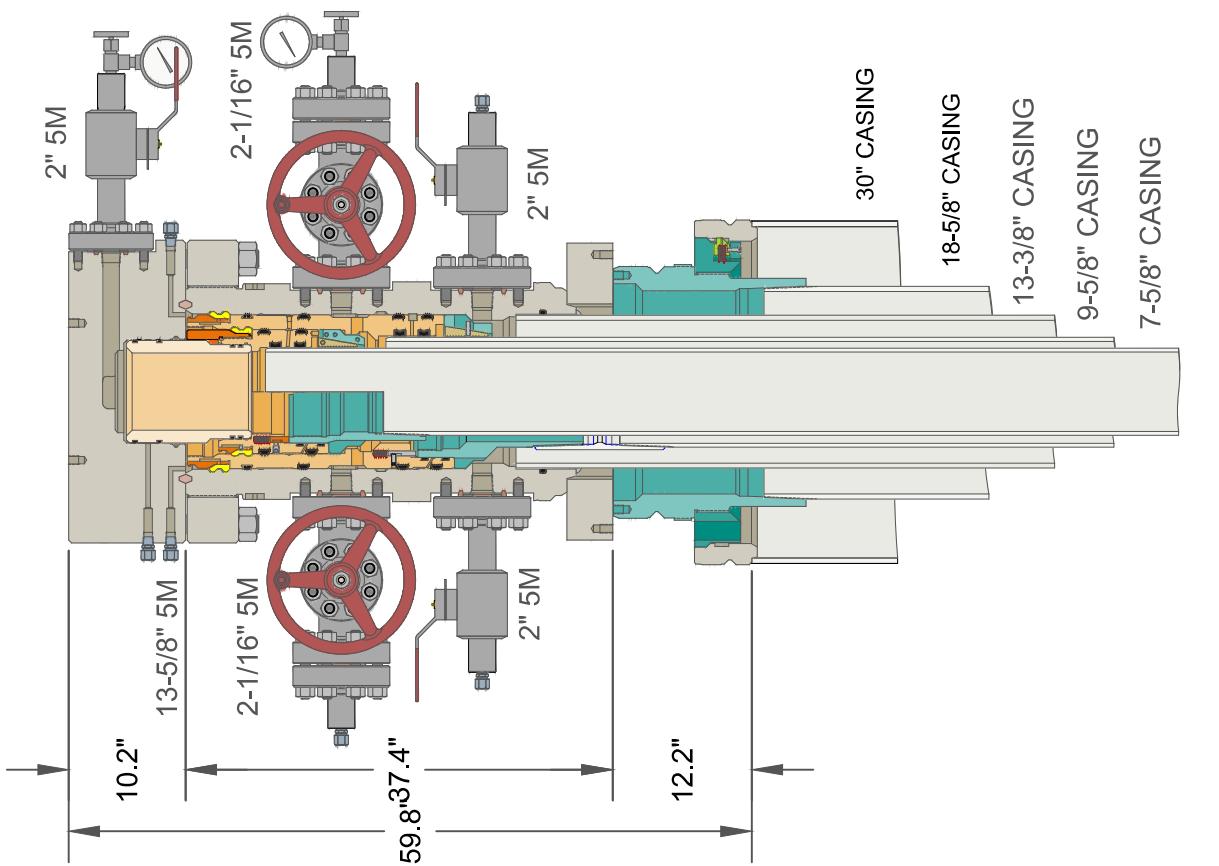
Serial Number: 7660143~7660144

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD . in Aug 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Aug 26, 2023. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

Jiaolong Chen
QC Manager:

Date:Aug 26, 2023



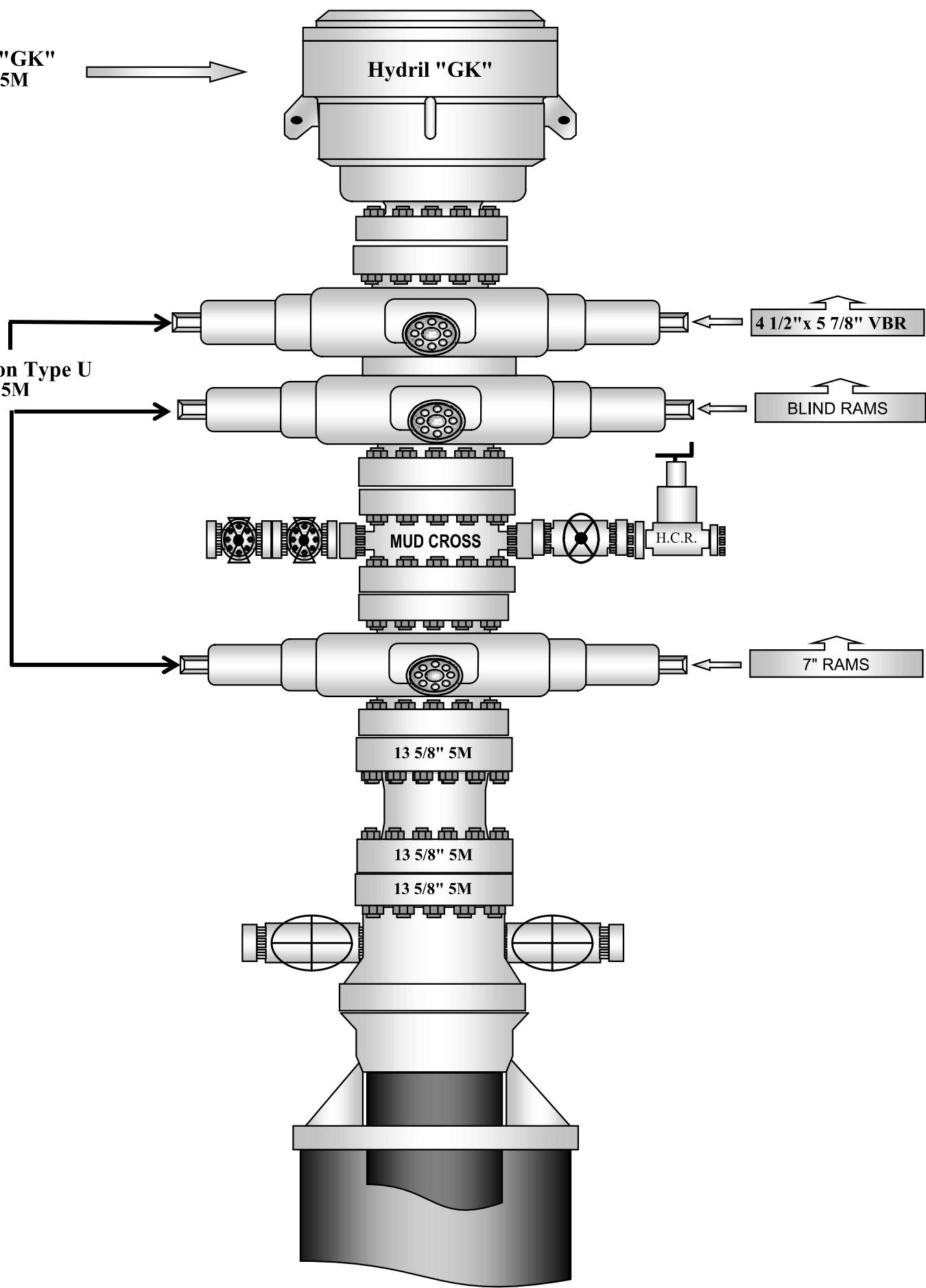
30" X 18-5/8" X 13-3/8" X 9-5/8" X 7-5/8" 5M RSH-2N WELLHEAD ASSEMBLY,
WITH TA CAP AND DRILLING ADAPTER



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DRAWN BY:	KN	DRAWING NO.	HP250066
REVIEWED BY:		Rev. NC	Sht. 1 of
APPROVED BY:		DATE:	8/12/2025

Hydril "GK"
13 5/8" 5M





Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart.

Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
5. The rig will then walk to the next well.
6. Confirm that the well is static and remove the capping flange.
7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
8. Install a test plug into the wellhead.
9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
11. The annular, blind rams and lower pipe rams will then be function tested.
12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool and/or cement head
- Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.

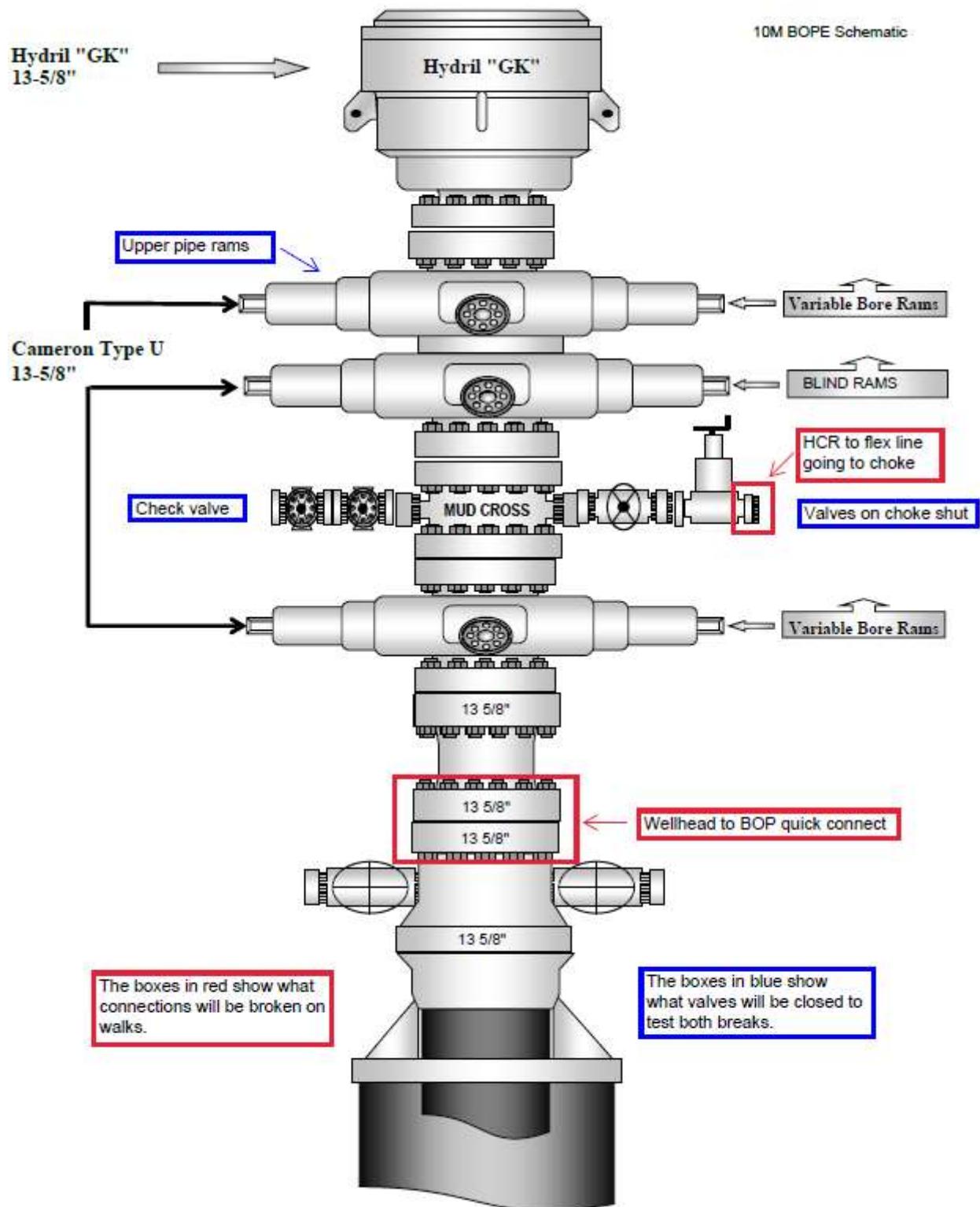


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

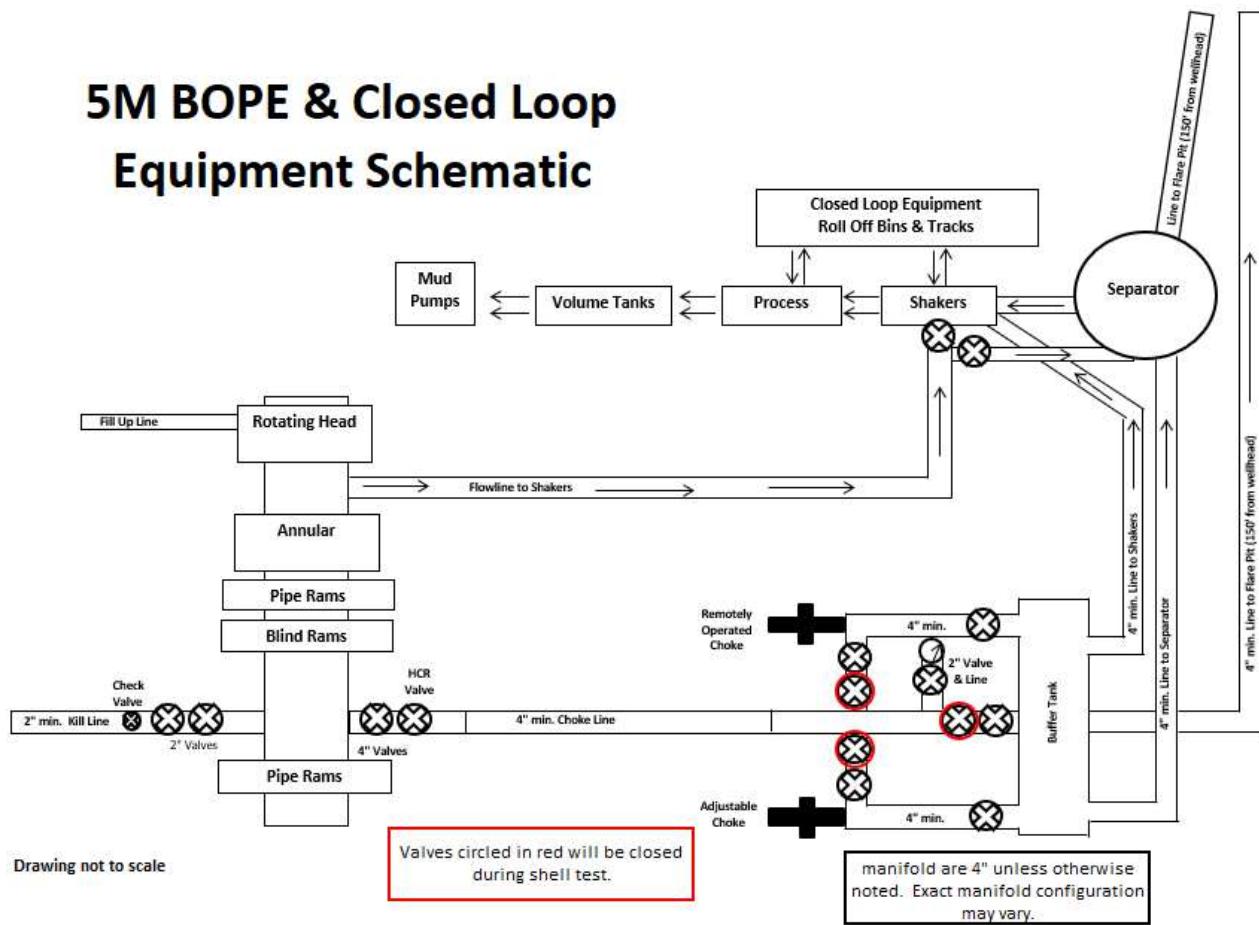


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

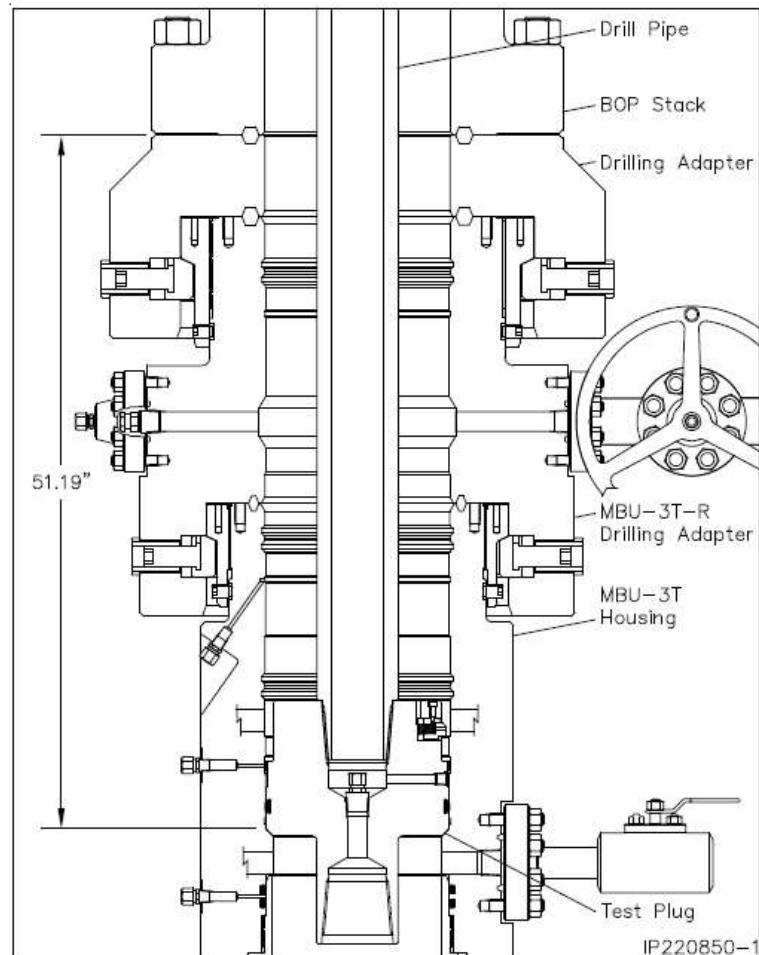


Figure 5. Cactus 5M wellhead with BOP quick connect

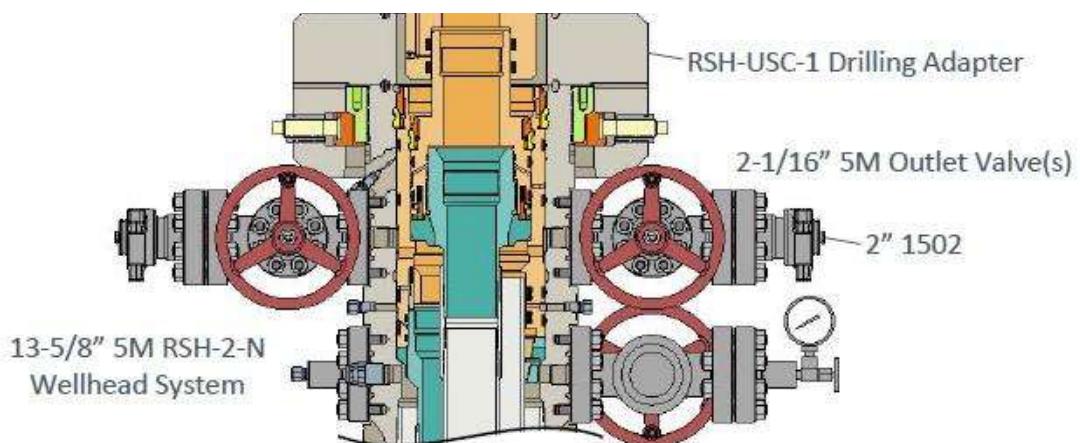


Figure 6. Vault 5M wellhead with BOP quick connect



Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart.

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Two breaks on the BOPE will be made (Fig. 1).
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5. The rig will then walk to the next well.
6. Confirm that the well is static and remove the capping flange.
7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
8. Install a test plug into the wellhead.
9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
11. The annular, blind rams and lower pipe rams will then be function tested.
12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool and/or cement head
- Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

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- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.

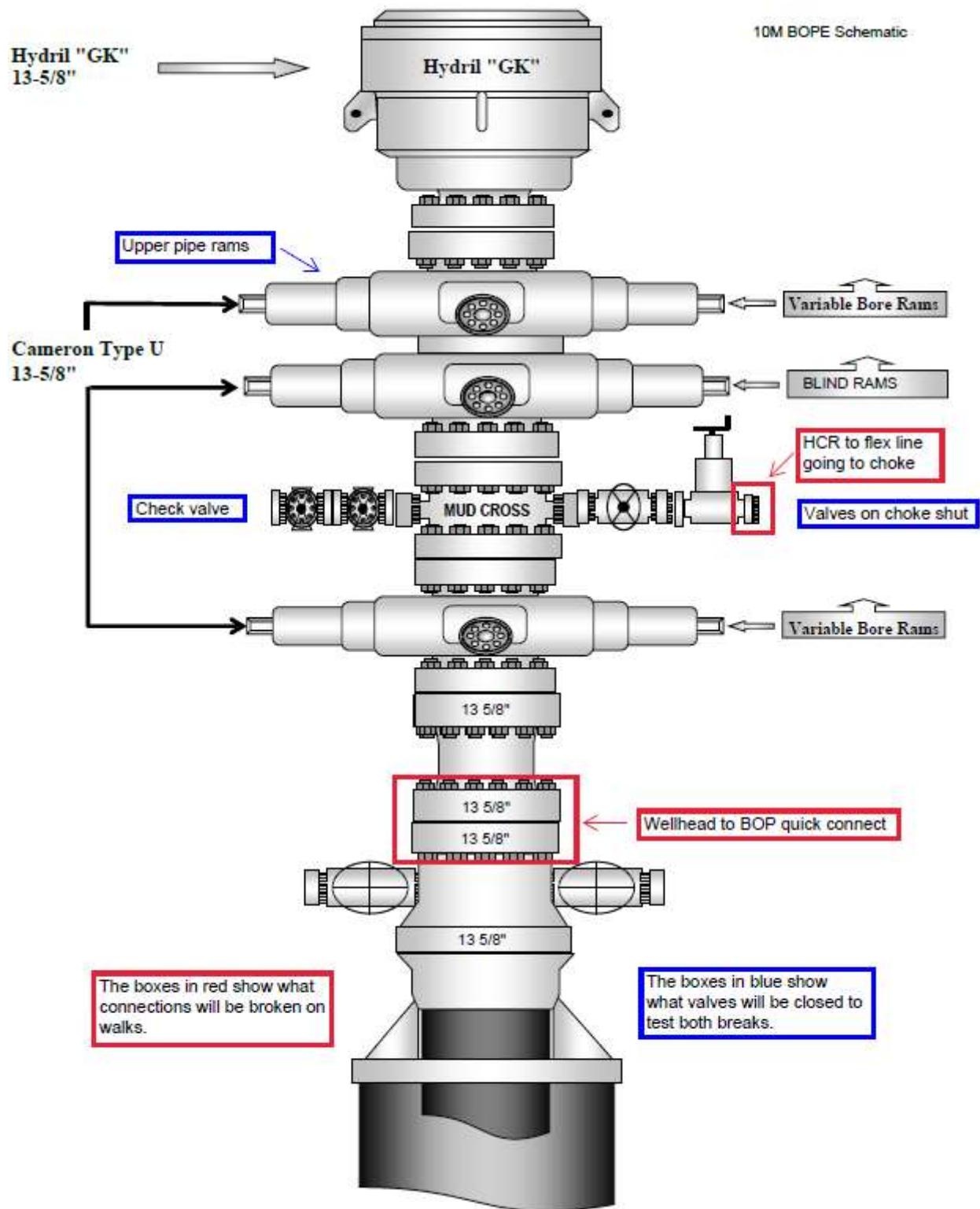


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

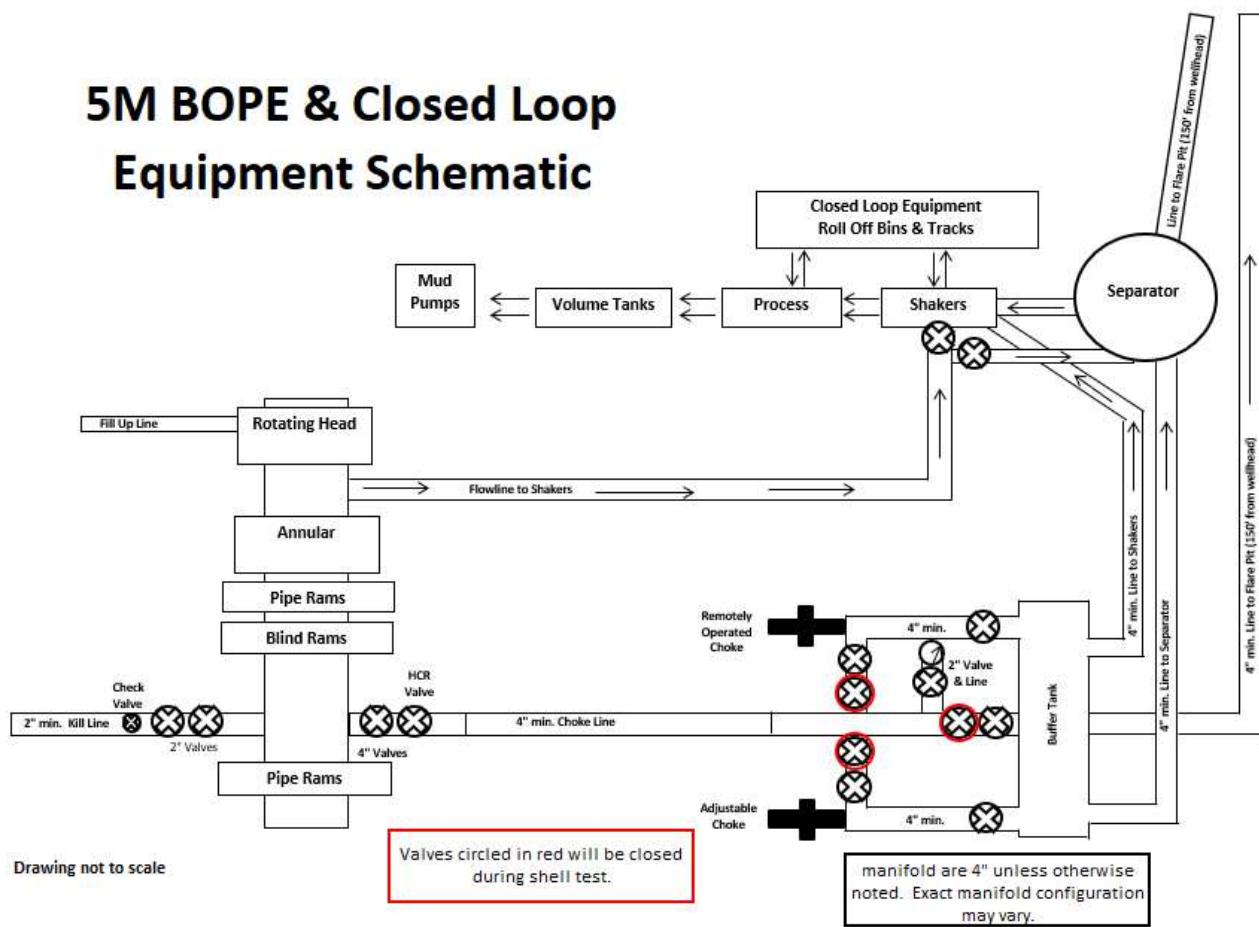


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

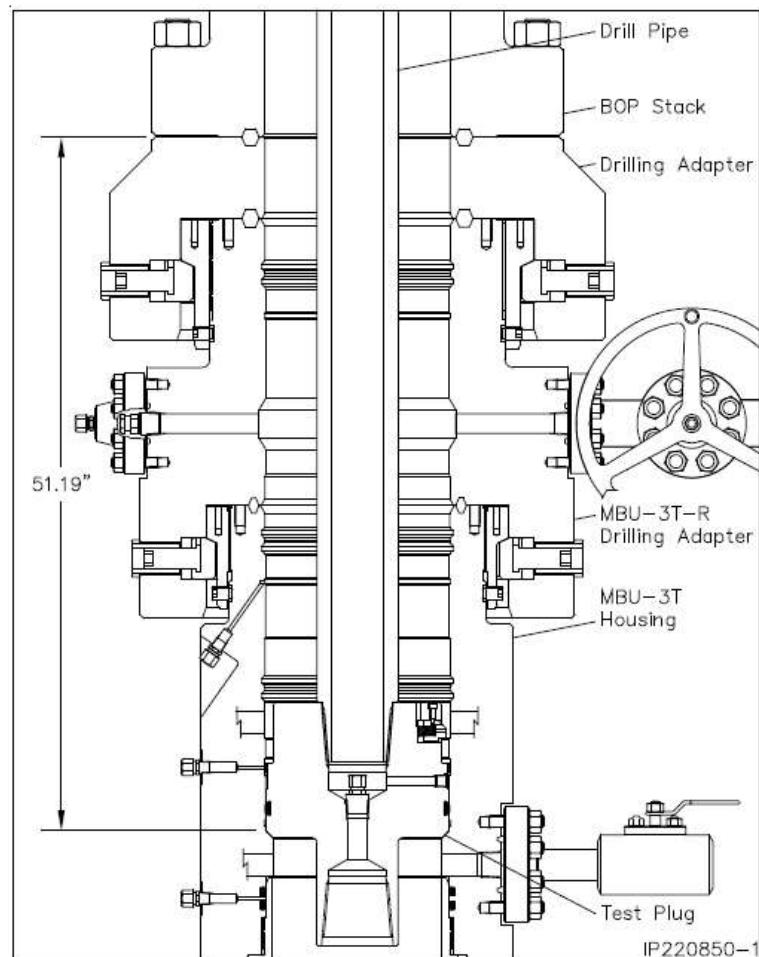


Figure 5. Cactus 5M wellhead with BOP quick connect

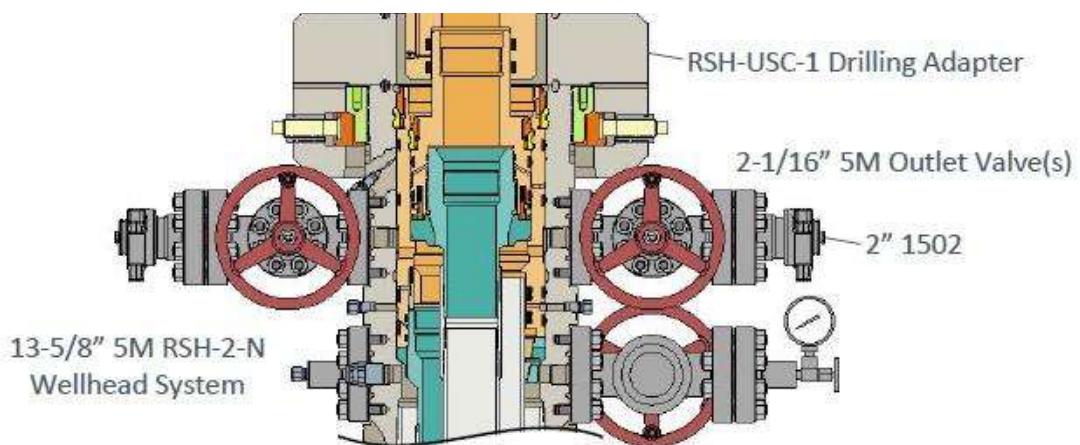


Figure 6. Vault 5M wellhead with BOP quick connect



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

Mewbourne Oil Company requests a variance to perform offline cementing for surface and intermediate casing strings with the following conditions:

- Offline cementing will not be performed on production casing.
- Offline cementing will not be performed on a hole section with MASP > 5000 psi.
- Offline cementing will not be performed concurrently with offset drilling.

Surface Casing Order of Operations:

1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static.
4. Make up 13 5/8" wellhead or wellhead landing ring assembly and land on 20" conductor.
5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint.
8. Walk rig to next well on pad with cement crew standing by to rig up.
9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
10. Make up cement head on top of offline cement tool with forklift.
11. Commence cement operations.
12. If cement circulates, confirm well is static and proceed to step 16.
13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
15. Confirm well is static.
16. Once cement job is complete, the cement head and offline cementing tool are removed.
The wellhead technician returns to cellar to install wellhead/valves.
17. Install wellhead capping flange.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus



After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

20" Surface Casing Order of Operations (4 string area):

1. Run 20" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
4. Confirm well is static.
5. Back out landing joint and pull to rig floor. Lay down landing joint.
6. Make up cement head.
7. Walk rig to next well on pad with cement crew standing by to rig up.
8. Commence cement operations.
9. If cement circulates, confirm well is static and proceed to step 13.
10. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
11. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
12. Confirm well is static.
13. Once cement job is complete, remove cement head and install cap.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement Head

After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement head
- Capping flange after cementing



Intermediate Casing Order of Operations:

1. Run casing as per normal operations (float shoe and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static (if running SBM).
4. Land casing.
5. Fill pipe, circulate casing capacity and confirm floats are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint. Install packoff & test.
8. Nipple down BOP.
9. Walk rig to next well on pad with cement crew standing by to rig up.
10. Make up offline cement tool using forklift per wellhead manufacturer (Fig. 3 - 8).
11. Make up cement head on top of offline cement tool.
12. Commence cement operations.
13. If cement circulates, confirm well is static and proceed to step 16.
14. If cement does not circulate (when required), notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
15. Pump remedial cement job if required.
16. Confirm well is static.
17. Remove cement head and offline cementing tool.
18. Install wellhead capping flange and test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing



Risks:

- Pressure build up in annulus before cementing
 - Contact BLM if a well control event occurs.
 - Rig up 3rd party pump or rig pumps to pump down casing and kill well.
 - Returns will be taken through the wellhead valves to a choke manifold (Fig 9 & 10).
 - Well could also be killed through the wellhead valves down the annulus.

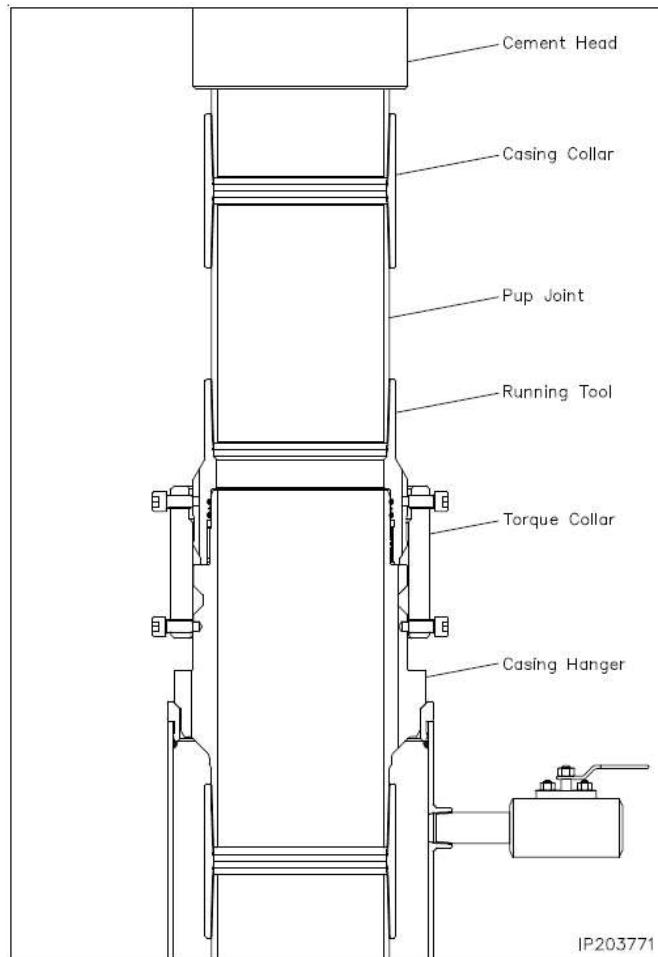


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

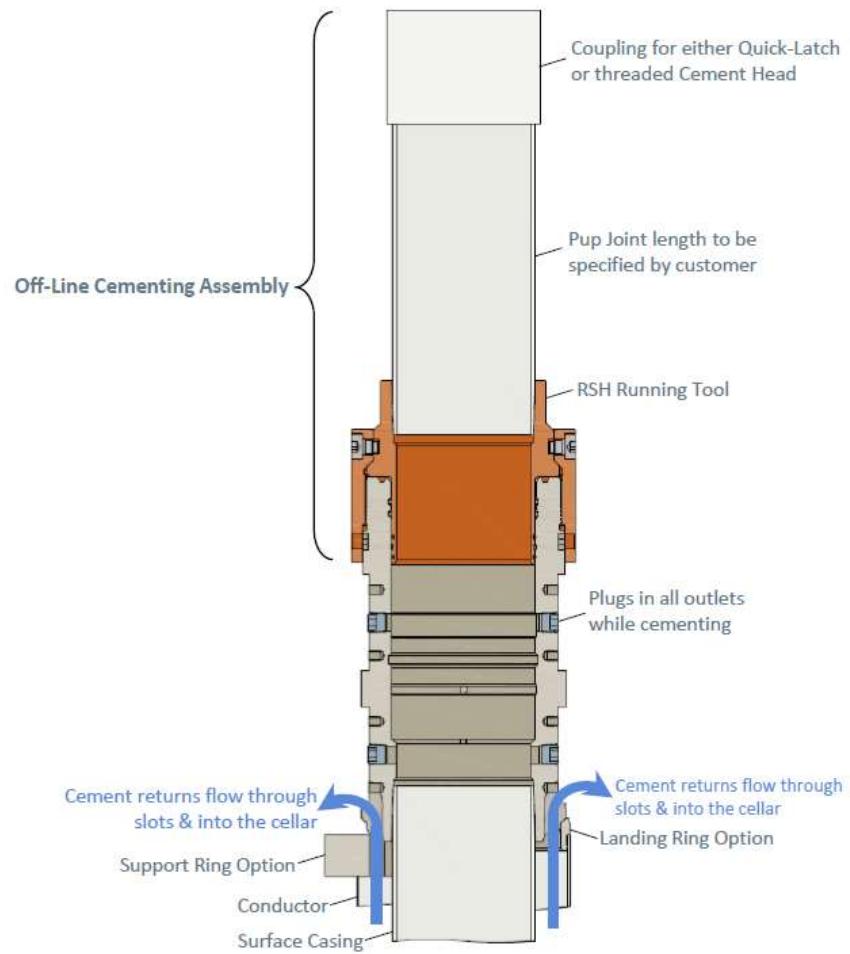


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

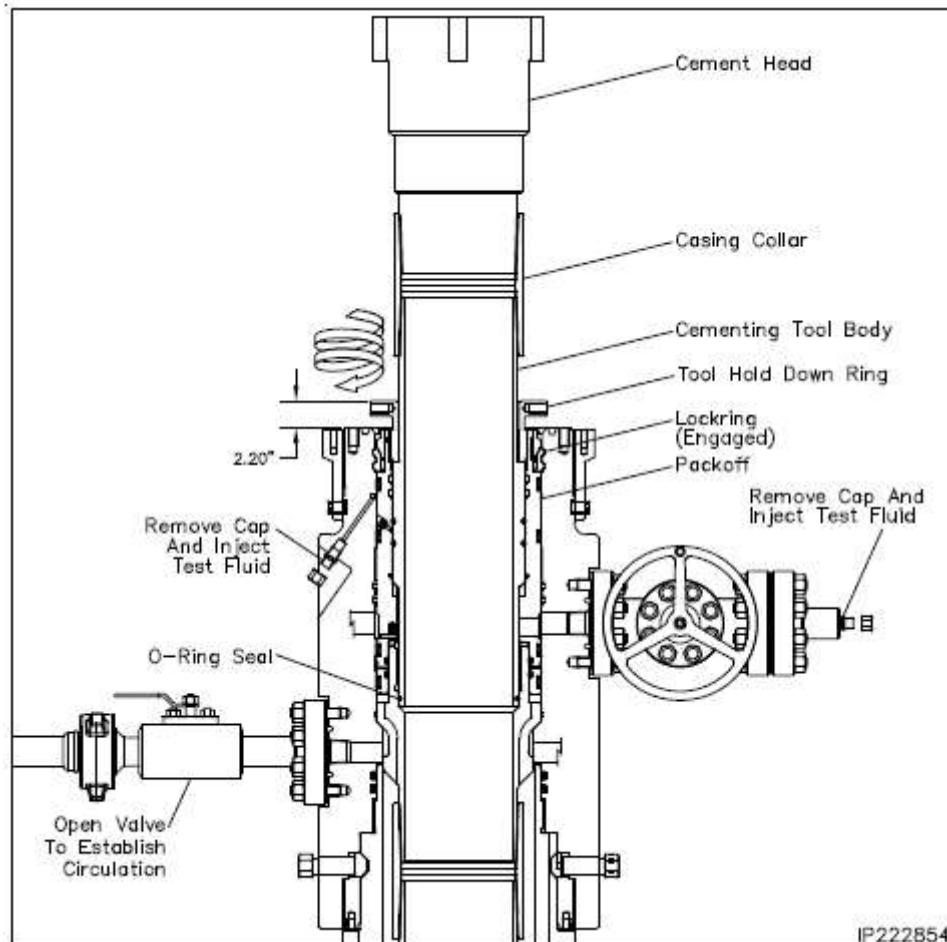


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

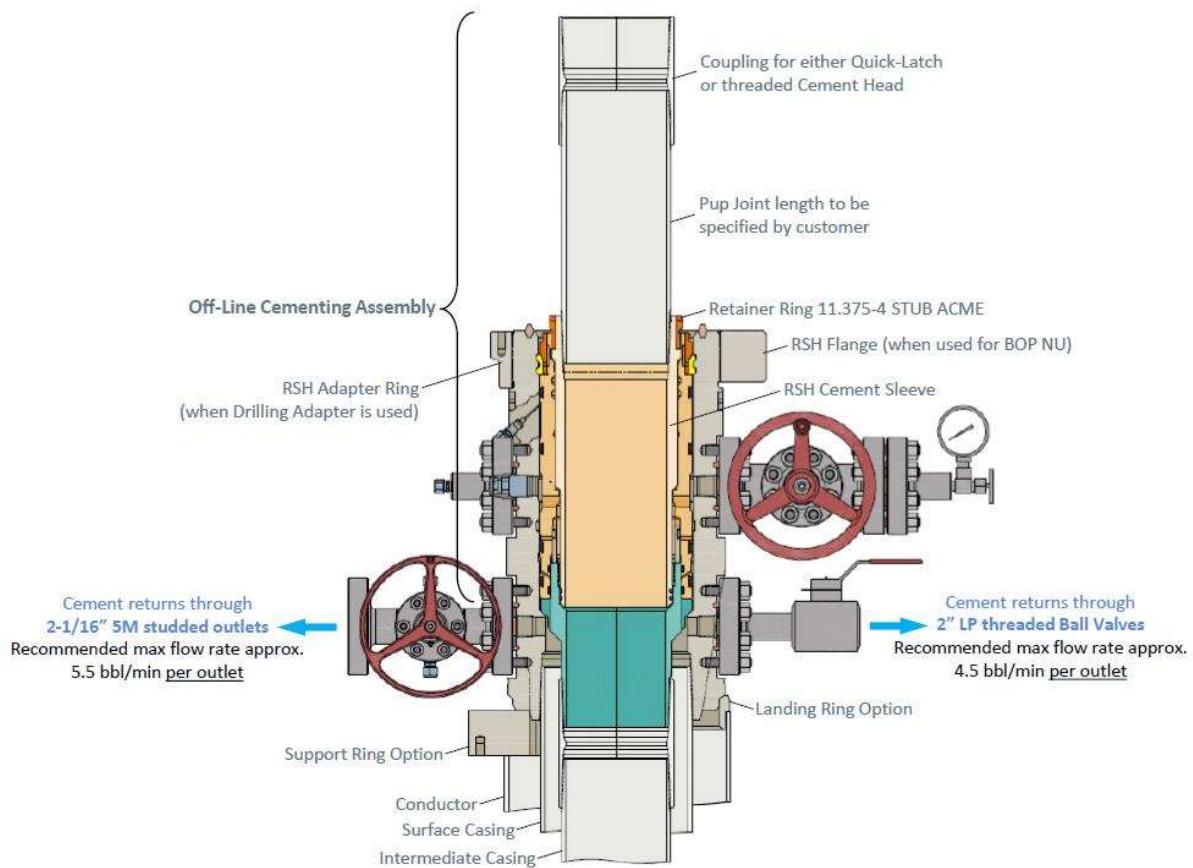


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

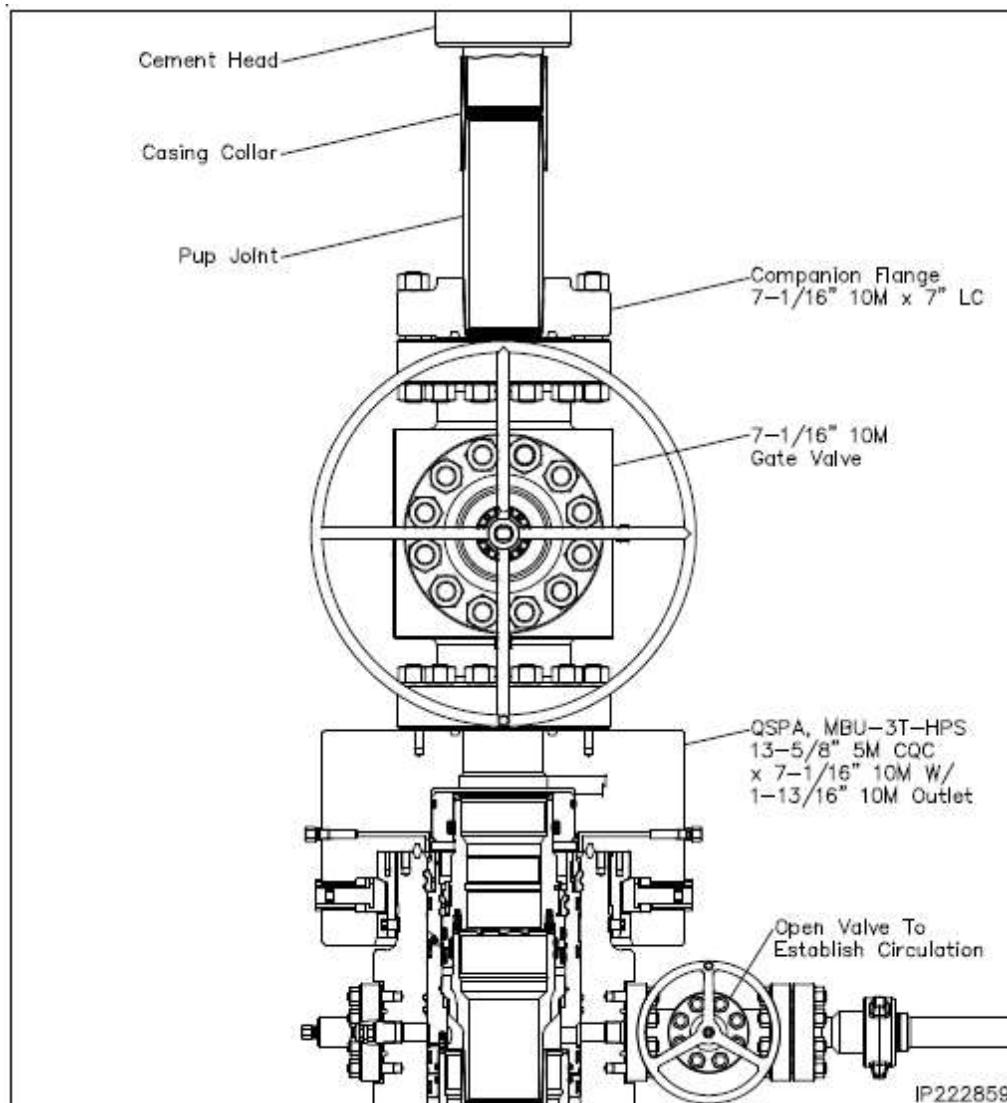


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

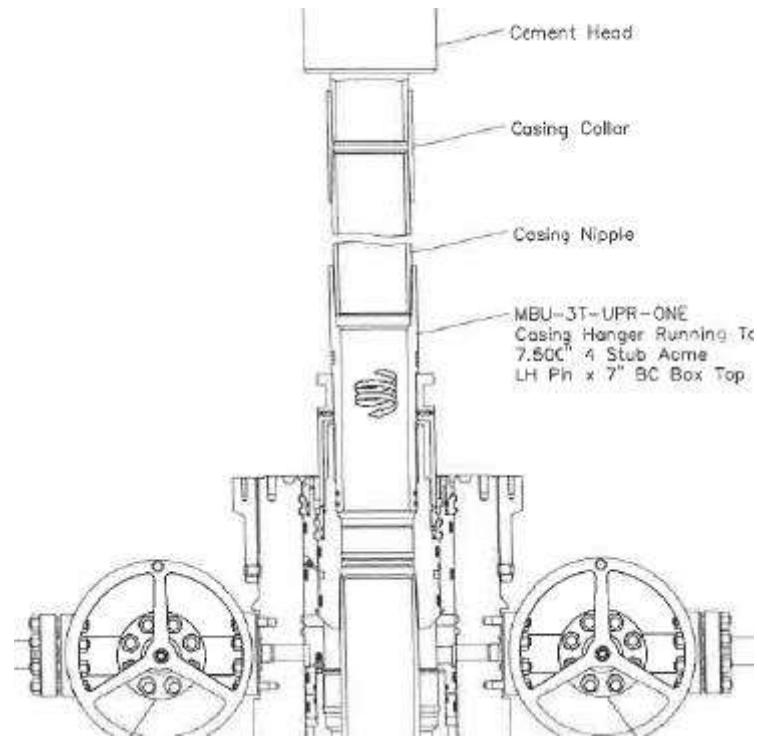


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

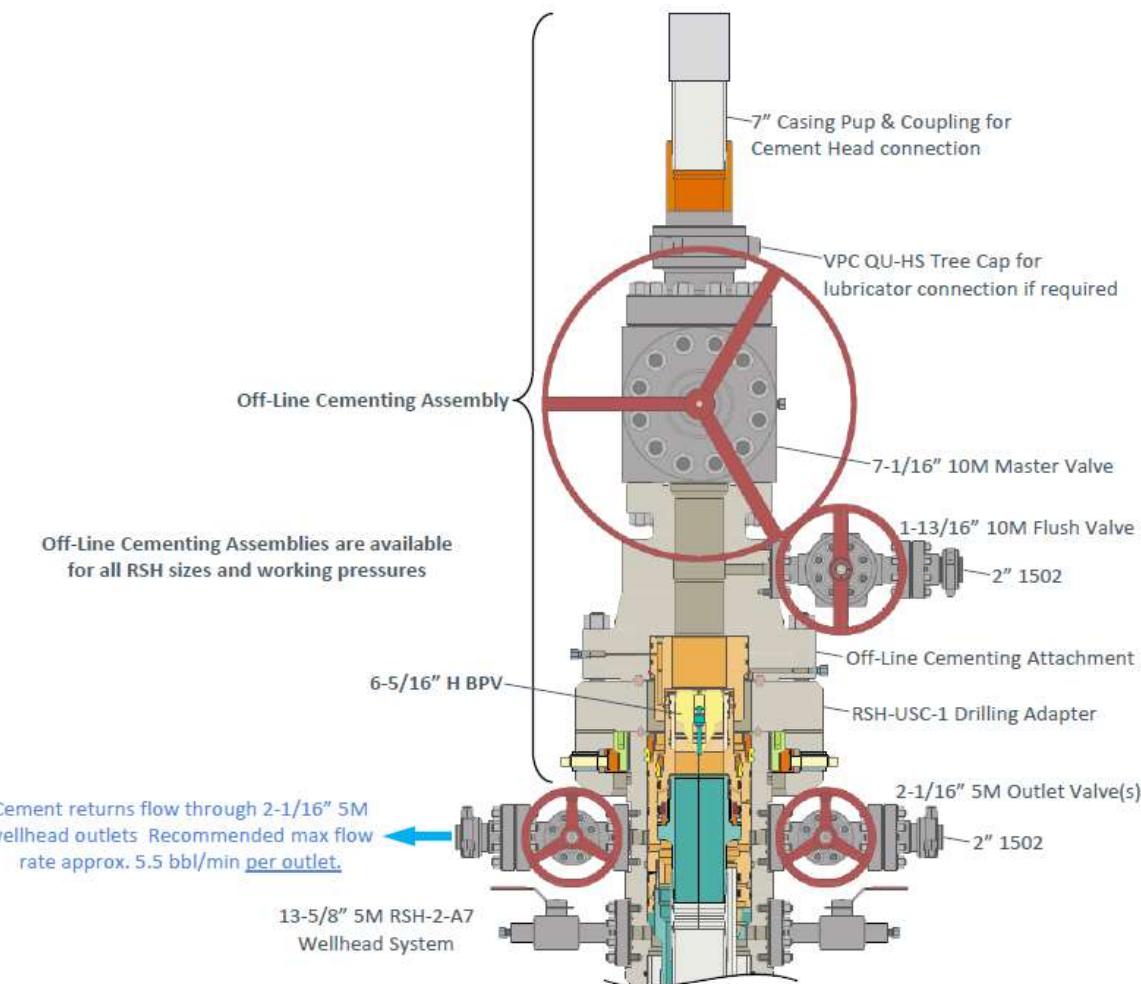


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

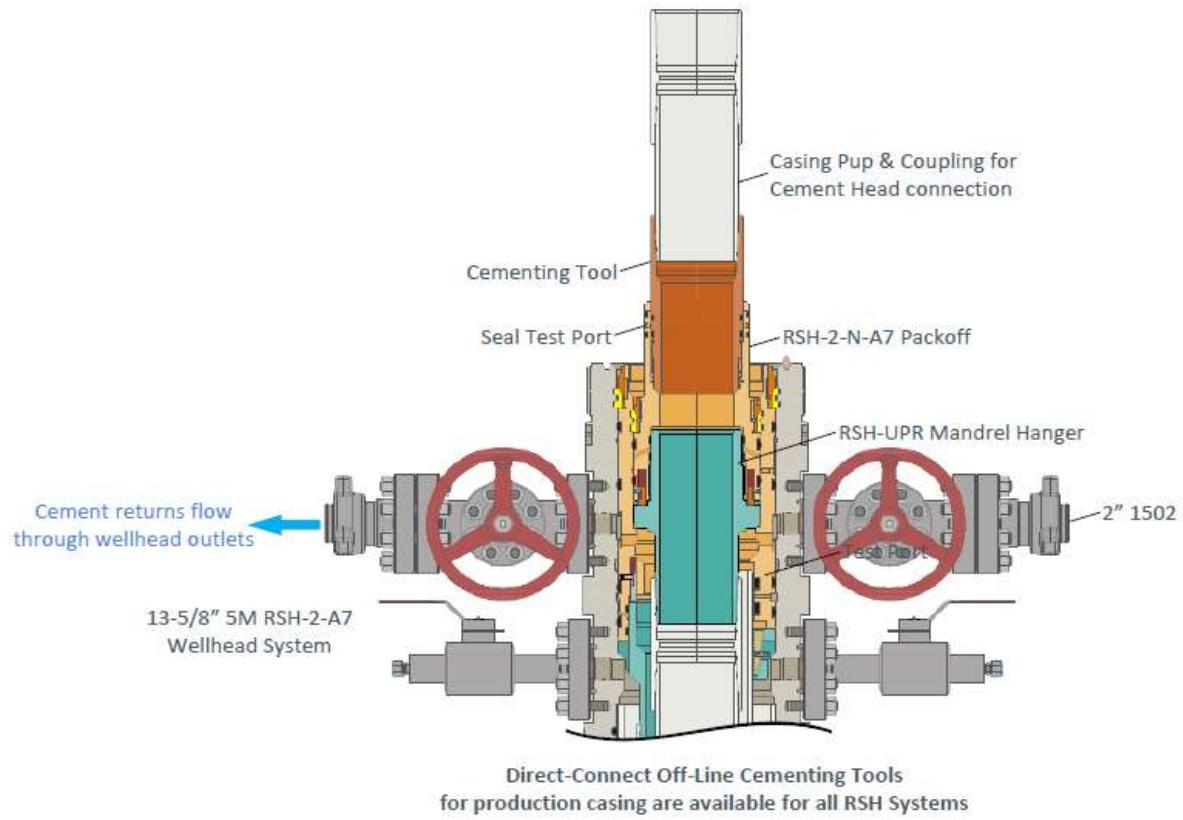


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

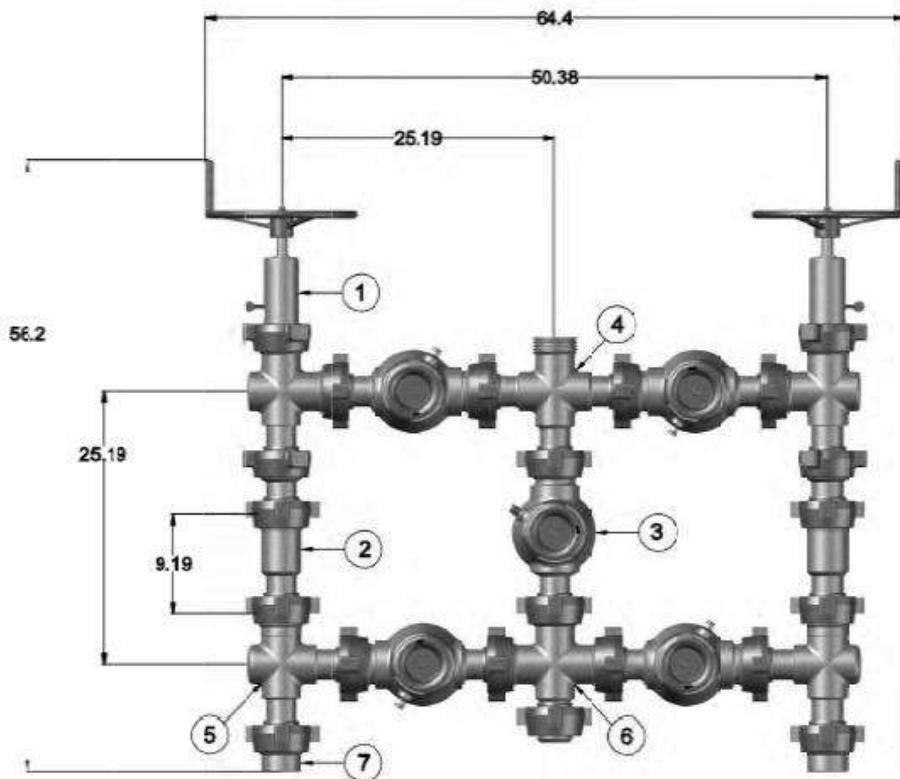


Figure 9. Five valve 15k choke manifold.

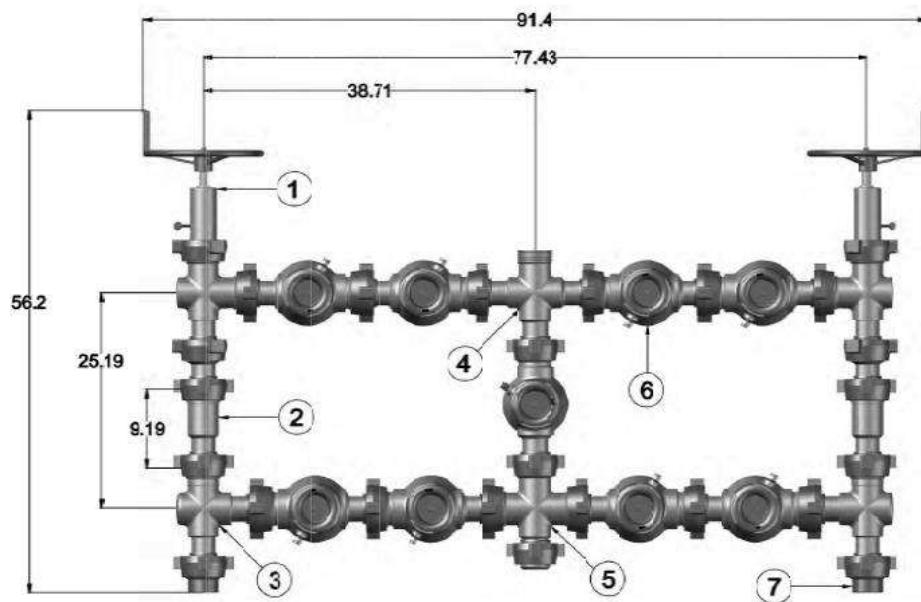
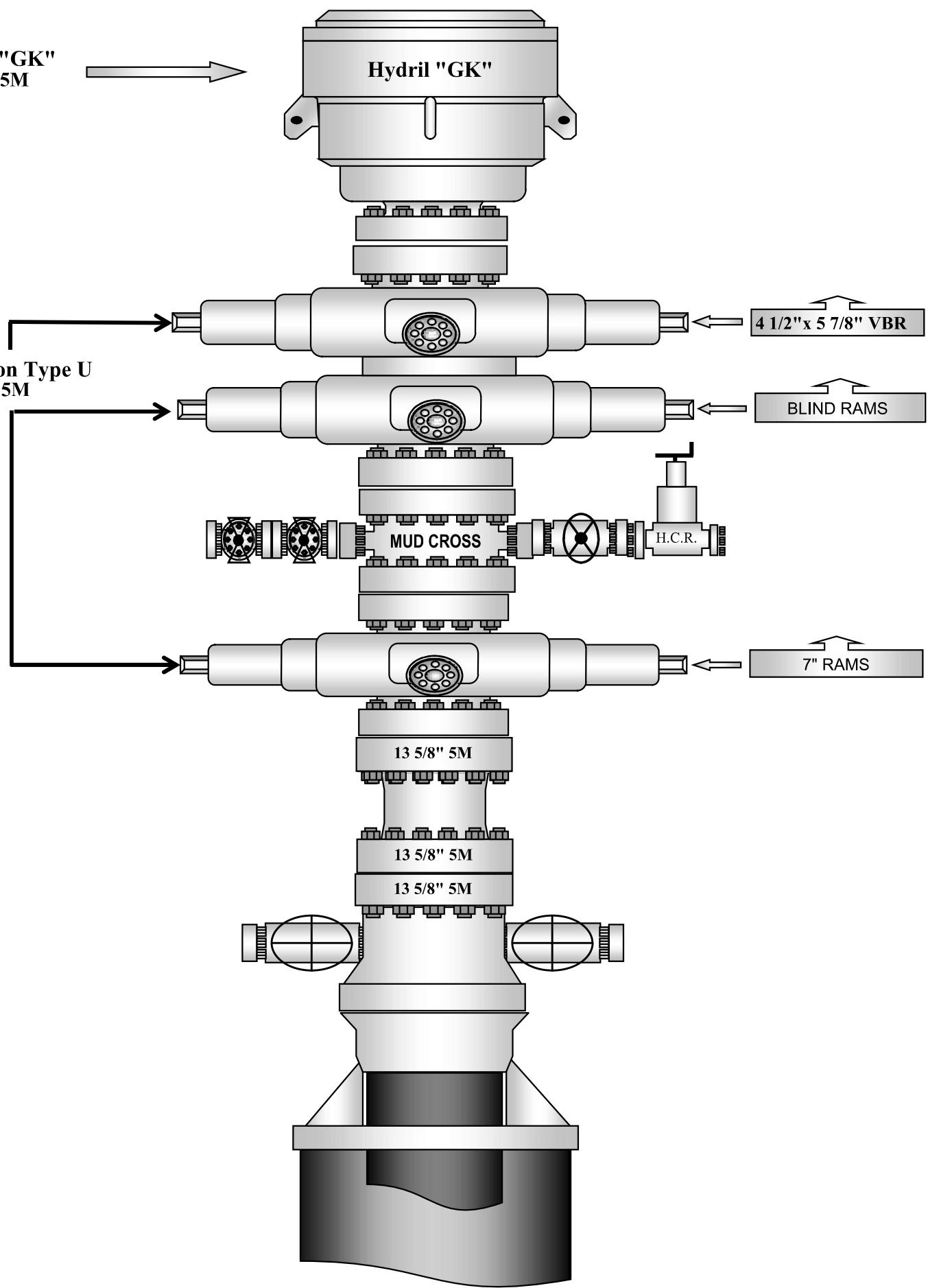


Figure 10. Nine valve 15k choke manifold.

Hydril "GK"
13 5/8" 5M





Casing Performance Data Sheet
Manufactured to API 5CT
With GB CD Slim Connection

Grade	<i>P110 HC</i>
OD	7.625"
Nominal Wall Thickness	0.375"
Nominal Weight, T&C	29.700 lb/ft
Nominal Weight, PE	29.060 lb/ft
Nominal ID	6.875"
Standard Drift	6.750"

Performance Properties

Collapse Rating	6,700 psi
Internal Pressure Yield	9,460 psi
Pipe body Tension Yield	940,000 lbs

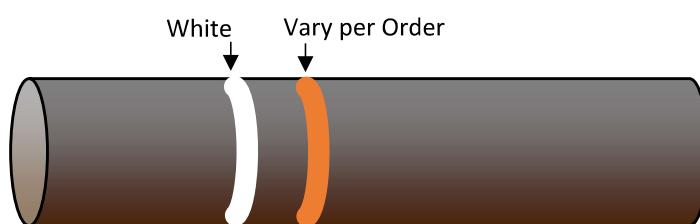
Connection Performance per GB

GB CD Slim Hole 7.900 COUPLING GEOMETRY			
Coupling OD (in.)	7.900	Makeup Loss (in.)	4.8125
Coupling Length (in.)	9.625	Critical Cross-Sect. (in. ²)	6.721

GB CD Slim Hole 7.900 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES						
Material Specification	API P-110	Min. Yield Str. (psi)	Efficiency		Bending	
			Gas	Liquid***	Build Rate to Yield (°/100 ft)	59.3
Tension OD Turn (kips)	776	Internal Pressure (%)	83%	100%	Yield Torque	
Thread Str. (kips)	794	External Pressure (%)	100%		Yield Torque (ft-lbs)	48,860
Min. Tension Yield (kips)	702	Tension (%)	85%		Running Tq. (ft-lbs)	
Min. Tension Ult. (kips)	798	Compression (%)	85%		Max. Operating Tq. (ft-lbs)*	46,410
Joint Str. (kips)	794	Ratio of Areas (Cplg/Pipe)	0.79			
		Ratio of Areas (Cplg/OD Turn)	0.95			

MAKEUP TORQUE					
Min. MU Tq. (ft-lbs)	10,000	Max. MU Tq. (ft-lbs)	20,000	Running Tq. (ft-lbs)	See GBC RP

Color Code





API STC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.430 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry		Performance	
Nominal OD	13.375 in.	Drift	12.359 in.
Wall Thickness	0.430 in.	Plain End Weight	59.50 lb/ft
Nominal Weight	61 lb/ft	OD Tolerance	API
Nominal ID	12.515 in.		

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	595 x1000 lb	Minimum Torque	4460 ft-lb
Connection OD	14.375 in.	Coupling Face Load	519 x1000 lb	Optimum Torque	5950 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3090 psi	Maximum Torque	7440 ft-lb

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
 For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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API LTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	9.625 in.	Wall Thickness	0.352 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry		Performance	
Nominal OD	9.625 in.	Drift	8.765 in.
Wall Thickness	0.352 in.	Plain End Weight	34.89 lb/ft
Nominal Weight	36 lb/ft	OD Tolerance	API
Nominal ID	8.921 in.		

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	453 x1000 lb	Minimum Torque	3400 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	4530 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3520 psi	Maximum Torque	5660 ft-lb

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
 For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

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API STC

Coupling	Pipe Body
Grade: H40	Grade: H40
Body: -	1st Band: Black
1st Band: Black	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	13.375 in.
Min. Wall Thickness	87.50 %
Connection OD Option	Regular

Wall Thickness	0.330 in.	Grade	H40
Pipe Body Drift	API Standard	Type	Casing

Pipe Body Data

Geometry		Performance	
Nominal OD	13.375 in.	Drift	12.559 in.
Wall Thickness	0.330 in.	Plain End Weight	46.02 lb/ft
Nominal Weight	48 lb/ft	OD Tolerance	API
Nominal ID	12.715 in.		

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	322 x1000 lb	Minimum Torque	2420 ft-lb
Connection OD	14.375 in.	Coupling Face Load	377 x1000 lb	Optimum Torque	3220 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	1730 psi	Maximum Torque	4030 ft-lb

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
 For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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API STC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.380 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry		Performance	
Nominal OD	13.375 in.	Drift	12.459 in.
Wall Thickness	0.380 in.	Plain End Weight	52.79 lb/ft
Nominal Weight	54.500 lb/ft	OD Tolerance	API
Nominal ID	12.615 in.		

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	514 x1000 lb	Minimum Torque	3860 ft-lb
Connection OD	14.375 in.	Coupling Face Load	519 x1000 lb	Optimum Torque	5140 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	2730 psi	Maximum Torque	6430 ft-lb

Notes

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 For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

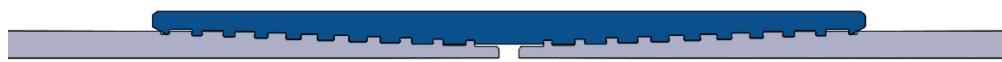
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U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 HP USS-TALON HTQ™ RD

8/10/2024 7:28:17 PM



MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD	[6]
Minimum Yield Strength	125,000	--	psi
Maximum Yield Strength	140,000	--	psi
Minimum Tensile Strength	130,000	--	psi
DIMENSIONS	Pipe	USS-TALON HTQ™ RD	--
Outside Diameter	5.500	5.900	in.
Wall Thickness	0.361	--	in.
Inside Diameter	4.778	4.778	in.
Standard Drift	4.653	4.653	in.
Alternate Drift	--	--	in.
Nominal Linear Weight, T&C	20.00	--	lb/ft
Plain End Weight	19.83	--	lb/ft
SECTION AREA	Pipe	USS-TALON HTQ™ RD	--
Critical Area	5.828	5.828	sq. in.
Joint Efficiency	--	100.0	%
PERFORMANCE	Pipe	USS-TALON HTQ™ RD	--
Minimum Collapse Pressure	13,150	13,150	psi
Minimum Internal Yield Pressure	14,360	14,360	psi
Minimum Pipe Body Yield Strength	729,000	--	lb
Joint Strength	--	729,000	lb
Compression Rating	--	729,000	lb
Reference Length	--	24,300	ft
Maximum Uniaxial Bend Rating	--	104.2	deg/100 ft
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD	--
Make-Up Loss	--	5.58	in.
Minimum Make-Up Torque	--	18,400	ft-lb
Maximum Make-Up Torque	--	21,400	ft-lb
Maximum Operating Torque	--	44,400	ft-lb

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bend rating shown is structural only.
4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6. Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

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UNCONTROLLED



API BTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	18.625 in.	Wall Thickness	0.435 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	Special Drift	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry		Performance	
Nominal OD	18.625 in.	Plain End Weight	84.59 lb/ft
Wall Thickness	0.435 in.	OD Tolerance	API
Nominal ID	17.755 in.		
Drift	17.756 in.		

Connection Data

Geometry		Performance	
Thread per In	5	Joint Strength	1328 x1000 lb
Connection OD	20 in.	Coupling Face Load	1669 x1000 lb
Hand Tight Stand Off	0.875 in.	Internal Pressure Capacity	2250 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
 For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

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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

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	2nd Fax	575-393-7259

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Drilling Superintendent	Frosty Lathan	575-390-4103
	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

Mewbourne Oil Company

**Eddy County, New Mexico NAD 83
Mimosa Ridge 6/4 Fed #715H
Sec 06, T21S, R29E
SHL: 1980' FSL & 2260' FWL (Sec 6)
BHL: 1800' FSL & 100' FEL (Sec 4)**

Plan: Design #1

Standard Planning Report

17 February, 2025

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
--	--	--	--

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

Site	Mimosa Ridge 6/4 Fed #715H				
Site Position: From: Position Uncertainty:	Map 0.0 usft	Northing: Easting: Slot Radius:	548,191.90 usft 636,665.10 usft 13-3/16 "	Latitude: Longitude:	32.5066600 -104.0241012

Well	Sec 06, T21S, R29E				
Well Position	+N/-S 0.0 usft	Northing:	548,191.90 usft	Latitude:	32.5066600
	+E/-W 0.0 usft	Easting:	636,665.10 usft	Longitude:	-104.0241012
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,489.0 usft	Ground Level:	3,461.0 usft
Grid Convergence:	0.17 °				

Wellbore	BHL: 1800' FSL & 100' FEL (Sec 4)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.38	60.28	48,357.40948624

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	90.60					

Plan Survey Tool Program	Date	2/17/2025
Depth From (usft)	Depth To (usft)	Survey (Wellbore)
1	0.0	23,478.9 Design #1 (BHL: 1800' FSL & 100' FEL (Sec 4))

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	0.00
2,175.0	0.00	0.00	2,175.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
2,350.2	3.50	245.71	2,350.1	-2.2	-4.9	2.00	2.00	0.00	245.71	
9,381.1	3.50	245.71	9,367.9	-179.0	-396.6	0.00	0.00	0.00	0.00	
9,556.4	0.00	0.00	9,543.0	-181.2	-401.5	2.00	-2.00	0.00	180.00	KOP: 1800' FSL & 100' FEL (Sec 4)
10,450.9	89.44	89.82	10,116.0	-179.4	165.9	10.00	10.00	0.00	89.82	
23,478.9	89.44	89.82	10,243.0	-138.1	13,193.3	0.00	0.00	0.00	0.00	BHL: 1800' FSL & 100' FEL (Sec 4)

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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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	0.00
SHL: 1980' FSL & 2260' FWL (Sec 6)										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	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	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	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	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	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	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	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	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	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	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	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	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	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	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	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	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	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	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	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	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,175.0	0.00	0.00	2,175.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,200.0	0.50	245.71	2,200.0	0.0	-0.1	-0.1	2.00	2.00	0.00	0.00
2,300.0	2.50	245.71	2,300.0	-1.1	-2.5	-2.5	2.00	2.00	0.00	0.00
2,350.2	3.50	245.71	2,350.1	-2.2	-4.9	-4.9	2.00	2.00	0.00	0.00
2,400.0	3.50	245.71	2,399.8	-3.5	-7.7	-7.6	0.00	0.00	0.00	0.00
2,500.0	3.50	245.71	2,499.6	-6.0	-13.2	-13.2	0.00	0.00	0.00	0.00
2,600.0	3.50	245.71	2,599.4	-8.5	-18.8	-18.7	0.00	0.00	0.00	0.00
2,700.0	3.50	245.71	2,699.2	-11.0	-24.4	-24.3	0.00	0.00	0.00	0.00
2,800.0	3.50	245.71	2,799.0	-13.5	-29.9	-29.8	0.00	0.00	0.00	0.00
2,900.0	3.50	245.71	2,898.9	-16.0	-35.5	-35.3	0.00	0.00	0.00	0.00
3,000.0	3.50	245.71	2,998.7	-18.5	-41.1	-40.9	0.00	0.00	0.00	0.00
3,100.0	3.50	245.71	3,098.5	-21.1	-46.7	-46.4	0.00	0.00	0.00	0.00
3,200.0	3.50	245.71	3,198.3	-23.6	-52.2	-52.0	0.00	0.00	0.00	0.00
3,300.0	3.50	245.71	3,298.1	-26.1	-57.8	-57.5	0.00	0.00	0.00	0.00
3,400.0	3.50	245.71	3,397.9	-28.6	-63.4	-63.1	0.00	0.00	0.00	0.00
3,500.0	3.50	245.71	3,497.7	-31.1	-68.9	-68.6	0.00	0.00	0.00	0.00
3,600.0	3.50	245.71	3,597.6	-33.6	-74.5	-74.2	0.00	0.00	0.00	0.00
3,700.0	3.50	245.71	3,697.4	-36.1	-80.1	-79.7	0.00	0.00	0.00	0.00
3,800.0	3.50	245.71	3,797.2	-38.7	-85.7	-85.2	0.00	0.00	0.00	0.00
3,900.0	3.50	245.71	3,897.0	-41.2	-91.2	-90.8	0.00	0.00	0.00	0.00
4,000.0	3.50	245.71	3,996.8	-43.7	-96.8	-96.3	0.00	0.00	0.00	0.00
4,100.0	3.50	245.71	4,096.6	-46.2	-102.4	-101.9	0.00	0.00	0.00	0.00
4,200.0	3.50	245.71	4,196.4	-48.7	-107.9	-107.4	0.00	0.00	0.00	0.00
4,300.0	3.50	245.71	4,296.2	-51.2	-113.5	-113.0	0.00	0.00	0.00	0.00
4,400.0	3.50	245.71	4,396.1	-53.7	-119.1	-118.5	0.00	0.00	0.00	0.00
4,500.0	3.50	245.71	4,495.9	-56.3	-124.7	-124.1	0.00	0.00	0.00	0.00
4,600.0	3.50	245.71	4,595.7	-58.8	-130.2	-129.6	0.00	0.00	0.00	0.00
4,700.0	3.50	245.71	4,695.5	-61.3	-135.8	-135.2	0.00	0.00	0.00	0.00
4,800.0	3.50	245.71	4,795.3	-63.8	-141.4	-140.7	0.00	0.00	0.00	0.00
4,900.0	3.50	245.71	4,895.1	-66.3	-146.9	-146.2	0.00	0.00	0.00	0.00
5,000.0	3.50	245.71	4,994.9	-68.8	-152.5	-151.8	0.00	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	3.50	245.71	5,094.7	-71.3	-158.1	-157.3	0.00	0.00	0.00
5,200.0	3.50	245.71	5,194.6	-73.9	-163.7	-162.9	0.00	0.00	0.00
5,300.0	3.50	245.71	5,294.4	-76.4	-169.2	-168.4	0.00	0.00	0.00
5,400.0	3.50	245.71	5,394.2	-78.9	-174.8	-174.0	0.00	0.00	0.00
5,500.0	3.50	245.71	5,494.0	-81.4	-180.4	-179.5	0.00	0.00	0.00
5,600.0	3.50	245.71	5,593.8	-83.9	-185.9	-185.1	0.00	0.00	0.00
5,700.0	3.50	245.71	5,693.6	-86.4	-191.5	-190.6	0.00	0.00	0.00
5,800.0	3.50	245.71	5,793.4	-88.9	-197.1	-196.1	0.00	0.00	0.00
5,900.0	3.50	245.71	5,893.3	-91.5	-202.7	-201.7	0.00	0.00	0.00
6,000.0	3.50	245.71	5,993.1	-94.0	-208.2	-207.2	0.00	0.00	0.00
6,100.0	3.50	245.71	6,092.9	-96.5	-213.8	-212.8	0.00	0.00	0.00
6,200.0	3.50	245.71	6,192.7	-99.0	-219.4	-218.3	0.00	0.00	0.00
6,300.0	3.50	245.71	6,292.5	-101.5	-224.9	-223.9	0.00	0.00	0.00
6,400.0	3.50	245.71	6,392.3	-104.0	-230.5	-229.4	0.00	0.00	0.00
6,500.0	3.50	245.71	6,492.1	-106.5	-236.1	-235.0	0.00	0.00	0.00
6,600.0	3.50	245.71	6,591.9	-109.1	-241.7	-240.5	0.00	0.00	0.00
6,700.0	3.50	245.71	6,691.8	-111.6	-247.2	-246.1	0.00	0.00	0.00
6,800.0	3.50	245.71	6,791.6	-114.1	-252.8	-251.6	0.00	0.00	0.00
6,900.0	3.50	245.71	6,891.4	-116.6	-258.4	-257.1	0.00	0.00	0.00
7,000.0	3.50	245.71	6,991.2	-119.1	-263.9	-262.7	0.00	0.00	0.00
7,100.0	3.50	245.71	7,091.0	-121.6	-269.5	-268.2	0.00	0.00	0.00
7,200.0	3.50	245.71	7,190.8	-124.2	-275.1	-273.8	0.00	0.00	0.00
7,300.0	3.50	245.71	7,290.6	-126.7	-280.7	-279.3	0.00	0.00	0.00
7,400.0	3.50	245.71	7,390.4	-129.2	-286.2	-284.9	0.00	0.00	0.00
7,500.0	3.50	245.71	7,490.3	-131.7	-291.8	-290.4	0.00	0.00	0.00
7,600.0	3.50	245.71	7,590.1	-134.2	-297.4	-296.0	0.00	0.00	0.00
7,700.0	3.50	245.71	7,689.9	-136.7	-303.0	-301.5	0.00	0.00	0.00
7,800.0	3.50	245.71	7,789.7	-139.2	-308.5	-307.0	0.00	0.00	0.00
7,900.0	3.50	245.71	7,889.5	-141.8	-314.1	-312.6	0.00	0.00	0.00
8,000.0	3.50	245.71	7,989.3	-144.3	-319.7	-318.1	0.00	0.00	0.00
8,100.0	3.50	245.71	8,089.1	-146.8	-325.2	-323.7	0.00	0.00	0.00
8,200.0	3.50	245.71	8,189.0	-149.3	-330.8	-329.2	0.00	0.00	0.00
8,300.0	3.50	245.71	8,288.8	-151.8	-336.4	-334.8	0.00	0.00	0.00
8,400.0	3.50	245.71	8,388.6	-154.3	-342.0	-340.3	0.00	0.00	0.00
8,500.0	3.50	245.71	8,488.4	-156.8	-347.5	-345.9	0.00	0.00	0.00
8,600.0	3.50	245.71	8,588.2	-159.4	-353.1	-351.4	0.00	0.00	0.00
8,700.0	3.50	245.71	8,688.0	-161.9	-358.7	-357.0	0.00	0.00	0.00
8,800.0	3.50	245.71	8,787.8	-164.4	-364.2	-362.5	0.00	0.00	0.00
8,900.0	3.50	245.71	8,887.6	-166.9	-369.8	-368.0	0.00	0.00	0.00
9,000.0	3.50	245.71	8,987.5	-169.4	-375.4	-373.6	0.00	0.00	0.00
9,100.0	3.50	245.71	9,087.3	-171.9	-381.0	-379.1	0.00	0.00	0.00
9,200.0	3.50	245.71	9,187.1	-174.4	-386.5	-384.7	0.00	0.00	0.00
9,300.0	3.50	245.71	9,286.9	-177.0	-392.1	-390.2	0.00	0.00	0.00
9,381.1	3.50	245.71	9,367.9	-179.0	-396.6	-394.7	0.00	0.00	0.00
9,400.0	3.13	245.71	9,386.7	-179.4	-397.6	-395.7	2.00	-2.00	0.00
9,500.0	1.13	245.71	9,486.6	-181.0	-401.0	-399.1	2.00	-2.00	0.00
9,556.4	0.00	0.00	9,543.0	-181.2	-401.5	-399.6	2.00	-2.00	0.00
KOP: 1800' FSL & 1857' FWL (Sec 6)									
9,600.0	4.36	89.82	9,586.6	-181.2	-399.8	-397.9	10.00	10.00	0.00
9,650.0	9.36	89.82	9,636.2	-181.2	-393.9	-391.9	10.00	10.00	0.00
9,700.0	14.36	89.82	9,685.1	-181.1	-383.6	-381.7	10.00	10.00	0.00
9,750.0	19.36	89.82	9,733.0	-181.1	-369.1	-367.2	10.00	10.00	0.00
9,800.0	24.36	89.82	9,779.4	-181.0	-350.5	-348.6	10.00	10.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,850.0	29.36	89.82	9,824.0	-181.0	-327.9	-326.0	10.00	10.00	0.00
9,900.0	34.36	89.82	9,866.4	-180.9	-301.5	-299.6	10.00	10.00	0.00
9,950.0	39.36	89.82	9,906.4	-180.8	-271.5	-269.6	10.00	10.00	0.00
10,000.0	44.36	89.82	9,943.6	-180.7	-238.2	-236.3	10.00	10.00	0.00
10,050.0	49.36	89.82	9,977.8	-180.6	-201.7	-199.8	10.00	10.00	0.00
10,100.0	54.36	89.82	10,008.7	-180.4	-162.4	-160.5	10.00	10.00	0.00
10,150.0	59.36	89.82	10,036.0	-180.3	-120.5	-118.7	10.00	10.00	0.00
10,200.0	64.36	89.82	10,059.6	-180.2	-76.5	-74.6	10.00	10.00	0.00
10,250.0	69.35	89.82	10,079.2	-180.0	-30.5	-28.6	10.00	10.00	0.00
10,300.0	74.35	89.82	10,094.8	-179.9	17.0	18.9	10.00	10.00	0.00
10,350.0	79.35	89.82	10,106.2	-179.7	65.7	67.5	10.00	10.00	0.00
10,400.0	84.35	89.82	10,113.2	-179.6	115.1	117.0	10.00	10.00	0.00
10,450.9	89.44	89.82	10,116.0	-179.4	165.9	167.8	10.00	10.00	0.00
10,456.4	89.44	89.82	10,116.1	-179.4	171.4	173.3	0.00	0.00	0.00
FTP/LP: 1800' FSL & 2540' FEL (Sec 6)									
10,500.0	89.44	89.82	10,116.5	-179.2	215.0	216.9	0.00	0.00	0.00
10,600.0	89.44	89.82	10,117.5	-178.9	315.0	316.9	0.00	0.00	0.00
10,700.0	89.44	89.82	10,118.4	-178.6	415.0	416.9	0.00	0.00	0.00
10,800.0	89.44	89.82	10,119.4	-178.3	515.0	516.9	0.00	0.00	0.00
10,900.0	89.44	89.82	10,120.4	-178.0	615.0	616.9	0.00	0.00	0.00
11,000.0	89.44	89.82	10,121.4	-177.7	715.0	716.8	0.00	0.00	0.00
11,100.0	89.44	89.82	10,122.3	-177.3	815.0	816.8	0.00	0.00	0.00
11,200.0	89.44	89.82	10,123.3	-177.0	915.0	916.8	0.00	0.00	0.00
11,300.0	89.44	89.82	10,124.3	-176.7	1,015.0	1,016.8	0.00	0.00	0.00
11,400.0	89.44	89.82	10,125.3	-176.4	1,115.0	1,116.8	0.00	0.00	0.00
11,500.0	89.44	89.82	10,126.2	-176.1	1,215.0	1,216.8	0.00	0.00	0.00
11,600.0	89.44	89.82	10,127.2	-175.8	1,315.0	1,316.8	0.00	0.00	0.00
11,700.0	89.44	89.82	10,128.2	-175.4	1,415.0	1,416.7	0.00	0.00	0.00
11,800.0	89.44	89.82	10,129.2	-175.1	1,515.0	1,516.7	0.00	0.00	0.00
11,900.0	89.44	89.82	10,130.1	-174.8	1,615.0	1,616.7	0.00	0.00	0.00
12,000.0	89.44	89.82	10,131.1	-174.5	1,715.0	1,716.7	0.00	0.00	0.00
12,100.0	89.44	89.82	10,132.1	-174.2	1,815.0	1,816.7	0.00	0.00	0.00
12,200.0	89.44	89.82	10,133.1	-173.9	1,915.0	1,916.7	0.00	0.00	0.00
12,300.0	89.44	89.82	10,134.0	-173.5	2,015.0	2,016.7	0.00	0.00	0.00
12,400.0	89.44	89.82	10,135.0	-173.2	2,114.9	2,116.6	0.00	0.00	0.00
12,500.0	89.44	89.82	10,136.0	-172.9	2,214.9	2,216.6	0.00	0.00	0.00
12,600.0	89.44	89.82	10,136.9	-172.6	2,314.9	2,316.6	0.00	0.00	0.00
12,700.0	89.44	89.82	10,137.9	-172.3	2,414.9	2,416.6	0.00	0.00	0.00
12,800.0	89.44	89.82	10,138.9	-172.0	2,514.9	2,516.6	0.00	0.00	0.00
12,900.0	89.44	89.82	10,139.9	-171.6	2,614.9	2,616.6	0.00	0.00	0.00
13,000.0	89.44	89.82	10,140.8	-171.3	2,714.9	2,716.6	0.00	0.00	0.00
13,100.0	89.44	89.82	10,141.8	-171.0	2,814.9	2,816.5	0.00	0.00	0.00
13,200.0	89.44	89.82	10,142.8	-170.7	2,914.9	2,916.5	0.00	0.00	0.00
13,300.0	89.44	89.82	10,143.8	-170.4	3,014.9	3,016.5	0.00	0.00	0.00
13,400.0	89.44	89.82	10,144.7	-170.1	3,114.9	3,116.5	0.00	0.00	0.00
13,500.0	89.44	89.82	10,145.7	-169.7	3,214.9	3,216.5	0.00	0.00	0.00
13,600.0	89.44	89.82	10,146.7	-169.4	3,314.9	3,316.5	0.00	0.00	0.00
13,700.0	89.44	89.82	10,147.7	-169.1	3,414.9	3,416.5	0.00	0.00	0.00
13,800.0	89.44	89.82	10,148.6	-168.8	3,514.9	3,516.4	0.00	0.00	0.00
13,900.0	89.44	89.82	10,149.6	-168.5	3,614.9	3,616.4	0.00	0.00	0.00
14,000.0	89.44	89.82	10,150.6	-168.1	3,714.9	3,716.4	0.00	0.00	0.00
14,100.0	89.44	89.82	10,151.6	-167.8	3,814.9	3,816.4	0.00	0.00	0.00
14,200.0	89.44	89.82	10,152.5	-167.5	3,914.9	3,916.4	0.00	0.00	0.00
14,300.0	89.44	89.82	10,153.5	-167.2	4,014.8	4,016.4	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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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)
14,400.0	89.44	89.82	10,154.5	-166.9	4,114.8	4,116.4	0.00	0.00	0.00
14,500.0	89.44	89.82	10,155.5	-166.6	4,214.8	4,216.3	0.00	0.00	0.00
14,600.0	89.44	89.82	10,156.4	-166.2	4,314.8	4,316.3	0.00	0.00	0.00
14,700.0	89.44	89.82	10,157.4	-165.9	4,414.8	4,416.3	0.00	0.00	0.00
14,800.0	89.44	89.82	10,158.4	-165.6	4,514.8	4,516.3	0.00	0.00	0.00
14,900.0	89.44	89.82	10,159.4	-165.3	4,614.8	4,616.3	0.00	0.00	0.00
15,000.0	89.44	89.82	10,160.3	-165.0	4,714.8	4,716.3	0.00	0.00	0.00
15,100.0	89.44	89.82	10,161.3	-164.7	4,814.8	4,816.3	0.00	0.00	0.00
15,200.0	89.44	89.82	10,162.3	-164.3	4,914.8	4,916.3	0.00	0.00	0.00
15,300.0	89.44	89.82	10,163.3	-164.0	5,014.8	5,016.2	0.00	0.00	0.00
15,400.0	89.44	89.82	10,164.2	-163.7	5,114.8	5,116.2	0.00	0.00	0.00
15,500.0	89.44	89.82	10,165.2	-163.4	5,214.8	5,216.2	0.00	0.00	0.00
15,600.0	89.44	89.82	10,166.2	-163.1	5,314.8	5,316.2	0.00	0.00	0.00
15,700.0	89.44	89.82	10,167.2	-162.8	5,414.8	5,416.2	0.00	0.00	0.00
15,800.0	89.44	89.82	10,168.1	-162.4	5,514.8	5,516.2	0.00	0.00	0.00
15,900.0	89.44	89.82	10,169.1	-162.1	5,614.8	5,616.2	0.00	0.00	0.00
16,000.0	89.44	89.82	10,170.1	-161.8	5,714.8	5,716.1	0.00	0.00	0.00
16,100.0	89.44	89.82	10,171.1	-161.5	5,814.8	5,816.1	0.00	0.00	0.00
16,200.0	89.44	89.82	10,172.0	-161.2	5,914.7	5,916.1	0.00	0.00	0.00
16,300.0	89.44	89.82	10,173.0	-160.9	6,014.7	6,016.1	0.00	0.00	0.00
16,400.0	89.44	89.82	10,174.0	-160.5	6,114.7	6,116.1	0.00	0.00	0.00
16,500.0	89.44	89.82	10,175.0	-160.2	6,214.7	6,216.1	0.00	0.00	0.00
16,600.0	89.44	89.82	10,175.9	-159.9	6,314.7	6,316.1	0.00	0.00	0.00
16,700.0	89.44	89.82	10,176.9	-159.6	6,414.7	6,416.0	0.00	0.00	0.00
16,800.0	89.44	89.82	10,177.9	-159.3	6,514.7	6,516.0	0.00	0.00	0.00
16,900.0	89.44	89.82	10,178.9	-159.0	6,614.7	6,616.0	0.00	0.00	0.00
17,000.0	89.44	89.82	10,179.8	-158.6	6,714.7	6,716.0	0.00	0.00	0.00
17,100.0	89.44	89.82	10,180.8	-158.3	6,814.7	6,816.0	0.00	0.00	0.00
17,200.0	89.44	89.82	10,181.8	-158.0	6,914.7	6,916.0	0.00	0.00	0.00
17,300.0	89.44	89.82	10,182.8	-157.7	7,014.7	7,016.0	0.00	0.00	0.00
17,400.0	89.44	89.82	10,183.7	-157.4	7,114.7	7,115.9	0.00	0.00	0.00
17,500.0	89.44	89.82	10,184.7	-157.1	7,214.7	7,215.9	0.00	0.00	0.00
17,600.0	89.44	89.82	10,185.7	-156.7	7,314.7	7,315.9	0.00	0.00	0.00
17,700.0	89.44	89.82	10,186.7	-156.4	7,414.7	7,415.9	0.00	0.00	0.00
17,800.0	89.44	89.82	10,187.6	-156.1	7,514.7	7,515.9	0.00	0.00	0.00
17,900.0	89.44	89.82	10,188.6	-155.8	7,614.7	7,615.9	0.00	0.00	0.00
18,000.0	89.44	89.82	10,189.6	-155.5	7,714.7	7,715.9	0.00	0.00	0.00
18,100.0	89.44	89.82	10,190.6	-155.2	7,814.6	7,815.8	0.00	0.00	0.00
18,200.0	89.44	89.82	10,191.5	-154.8	7,914.6	7,915.8	0.00	0.00	0.00
18,300.0	89.44	89.82	10,192.5	-154.5	8,014.6	8,015.8	0.00	0.00	0.00
18,400.0	89.44	89.82	10,193.5	-154.2	8,114.6	8,115.8	0.00	0.00	0.00
18,500.0	89.44	89.82	10,194.5	-153.9	8,214.6	8,215.8	0.00	0.00	0.00
18,600.0	89.44	89.82	10,195.4	-153.6	8,314.6	8,315.8	0.00	0.00	0.00
18,700.0	89.44	89.82	10,196.4	-153.3	8,414.6	8,415.8	0.00	0.00	0.00
18,800.0	89.44	89.82	10,197.4	-152.9	8,514.6	8,515.7	0.00	0.00	0.00
18,900.0	89.44	89.82	10,198.4	-152.6	8,614.6	8,615.7	0.00	0.00	0.00
19,000.0	89.44	89.82	10,199.3	-152.3	8,714.6	8,715.7	0.00	0.00	0.00
19,100.0	89.44	89.82	10,200.3	-152.0	8,814.6	8,815.7	0.00	0.00	0.00
19,200.0	89.44	89.82	10,201.3	-151.7	8,914.6	8,915.7	0.00	0.00	0.00
19,300.0	89.44	89.82	10,202.3	-151.3	9,014.6	9,015.7	0.00	0.00	0.00
19,400.0	89.44	89.82	10,203.2	-151.0	9,114.6	9,115.7	0.00	0.00	0.00
19,500.0	89.44	89.82	10,204.2	-150.7	9,214.6	9,215.6	0.00	0.00	0.00
19,600.0	89.44	89.82	10,205.2	-150.4	9,314.6	9,315.6	0.00	0.00	0.00
19,700.0	89.44	89.82	10,206.2	-150.1	9,414.6	9,415.6	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Planned Survey

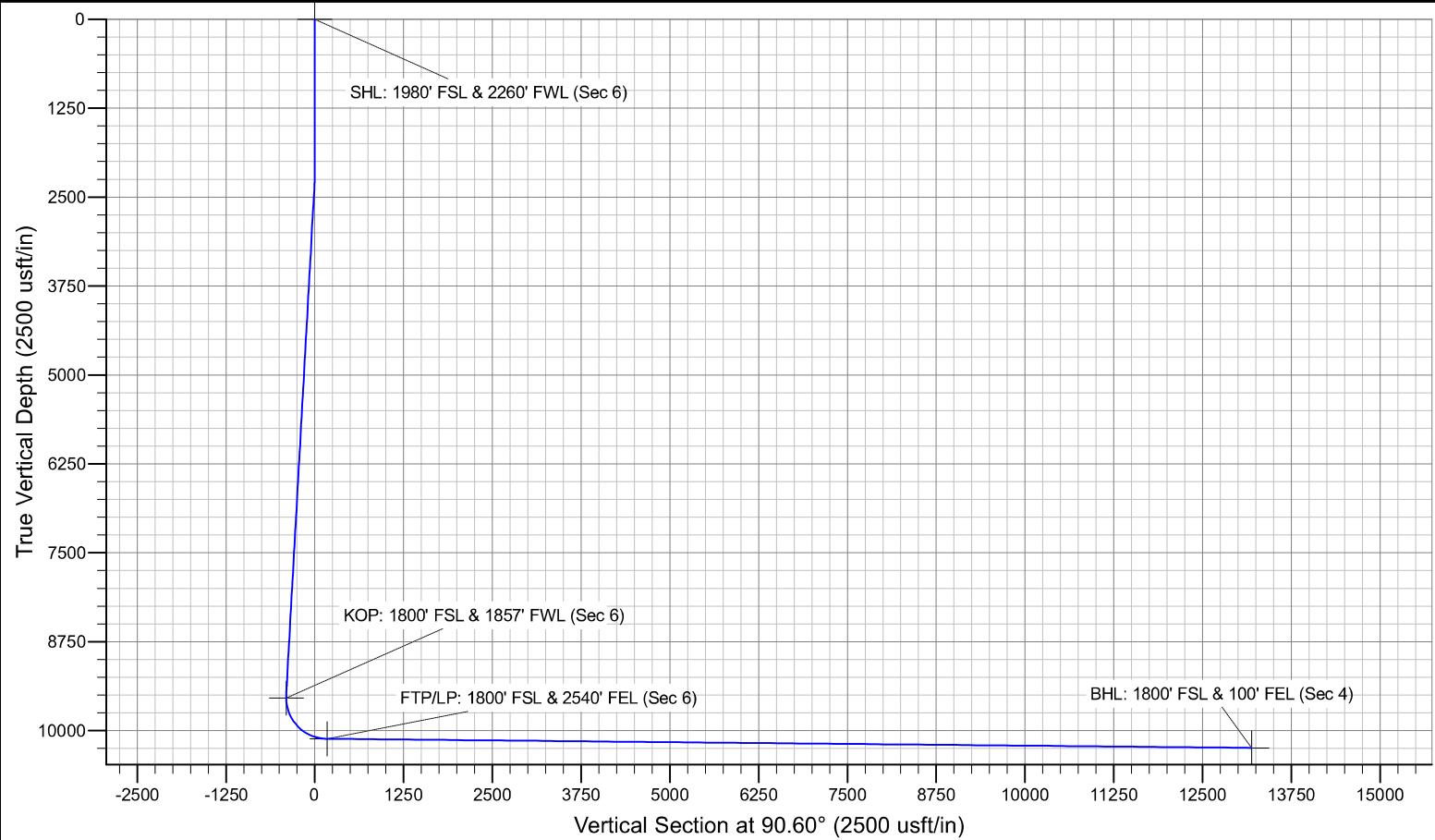
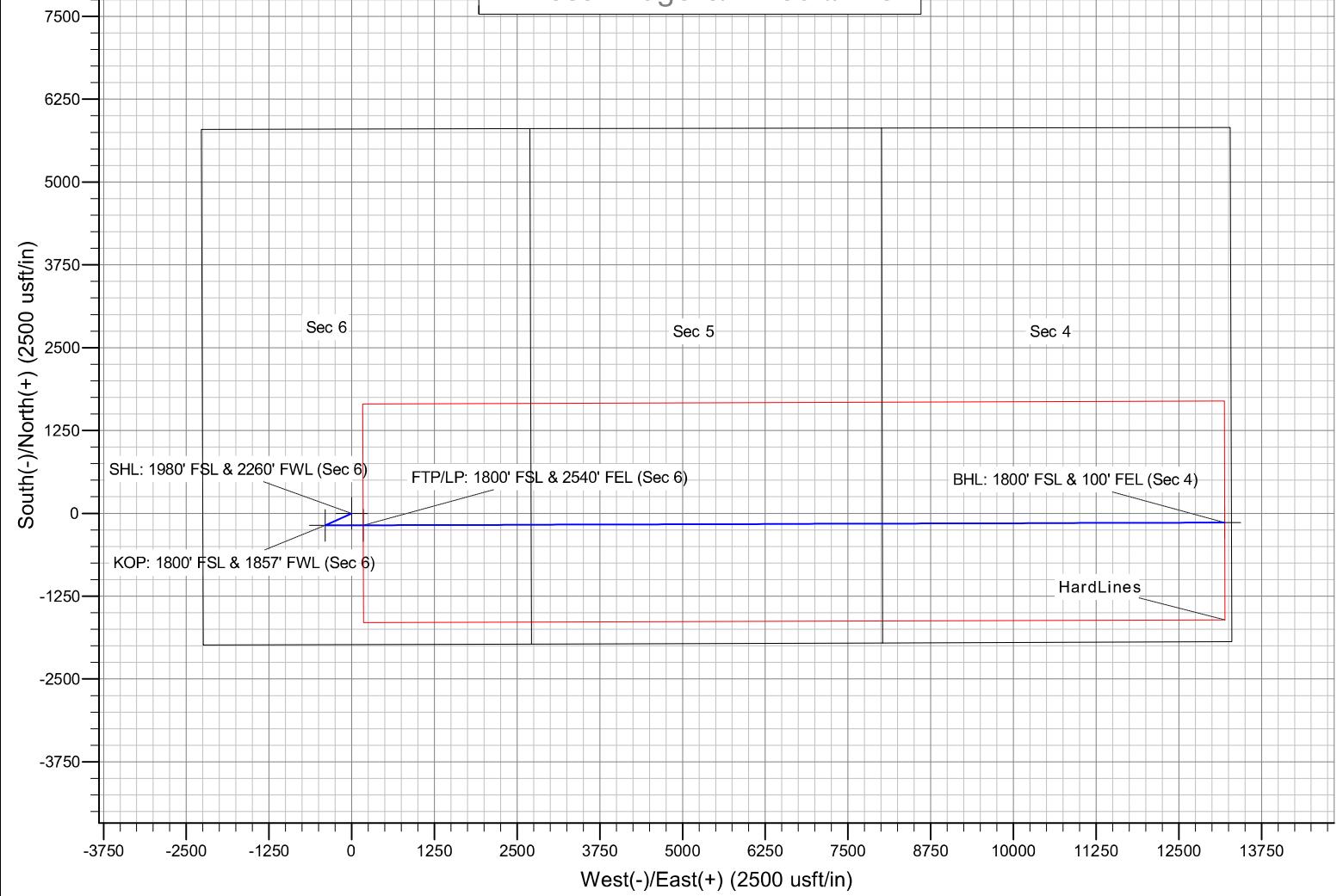
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,800.0	89.44	89.82	10,207.1	-149.8	9,514.6	9,515.6	0.00	0.00	0.00
19,900.0	89.44	89.82	10,208.1	-149.4	9,614.6	9,615.6	0.00	0.00	0.00
20,000.0	89.44	89.82	10,209.1	-149.1	9,714.5	9,715.6	0.00	0.00	0.00
20,100.0	89.44	89.82	10,210.1	-148.8	9,814.5	9,815.6	0.00	0.00	0.00
20,200.0	89.44	89.82	10,211.0	-148.5	9,914.5	9,915.5	0.00	0.00	0.00
20,300.0	89.44	89.82	10,212.0	-148.2	10,014.5	10,015.5	0.00	0.00	0.00
20,400.0	89.44	89.82	10,213.0	-147.9	10,114.5	10,115.5	0.00	0.00	0.00
20,500.0	89.44	89.82	10,214.0	-147.5	10,214.5	10,215.5	0.00	0.00	0.00
20,600.0	89.44	89.82	10,214.9	-147.2	10,314.5	10,315.5	0.00	0.00	0.00
20,700.0	89.44	89.82	10,215.9	-146.9	10,414.5	10,415.5	0.00	0.00	0.00
20,800.0	89.44	89.82	10,216.9	-146.6	10,514.5	10,515.5	0.00	0.00	0.00
20,900.0	89.44	89.82	10,217.9	-146.3	10,614.5	10,615.4	0.00	0.00	0.00
21,000.0	89.44	89.82	10,218.8	-146.0	10,714.5	10,715.4	0.00	0.00	0.00
21,100.0	89.44	89.82	10,219.8	-145.6	10,814.5	10,815.4	0.00	0.00	0.00
21,200.0	89.44	89.82	10,220.8	-145.3	10,914.5	10,915.4	0.00	0.00	0.00
21,300.0	89.44	89.82	10,221.8	-145.0	11,014.5	11,015.4	0.00	0.00	0.00
21,400.0	89.44	89.82	10,222.7	-144.7	11,114.5	11,115.4	0.00	0.00	0.00
21,500.0	89.44	89.82	10,223.7	-144.4	11,214.5	11,215.4	0.00	0.00	0.00
21,600.0	89.44	89.82	10,224.7	-144.1	11,314.5	11,315.4	0.00	0.00	0.00
21,700.0	89.44	89.82	10,225.7	-143.7	11,414.5	11,415.3	0.00	0.00	0.00
21,800.0	89.44	89.82	10,226.6	-143.4	11,514.5	11,515.3	0.00	0.00	0.00
21,900.0	89.44	89.82	10,227.6	-143.1	11,614.4	11,615.3	0.00	0.00	0.00
22,000.0	89.44	89.82	10,228.6	-142.8	11,714.4	11,715.3	0.00	0.00	0.00
22,100.0	89.44	89.82	10,229.6	-142.5	11,814.4	11,815.3	0.00	0.00	0.00
22,200.0	89.44	89.82	10,230.5	-142.2	11,914.4	11,915.3	0.00	0.00	0.00
22,300.0	89.44	89.82	10,231.5	-141.8	12,014.4	12,015.3	0.00	0.00	0.00
22,400.0	89.44	89.82	10,232.5	-141.5	12,114.4	12,115.2	0.00	0.00	0.00
22,500.0	89.44	89.82	10,233.5	-141.2	12,214.4	12,215.2	0.00	0.00	0.00
22,600.0	89.44	89.82	10,234.4	-140.9	12,314.4	12,315.2	0.00	0.00	0.00
22,700.0	89.44	89.82	10,235.4	-140.6	12,414.4	12,415.2	0.00	0.00	0.00
22,800.0	89.44	89.82	10,236.4	-140.3	12,514.4	12,515.2	0.00	0.00	0.00
22,900.0	89.44	89.82	10,237.4	-139.9	12,614.4	12,615.2	0.00	0.00	0.00
23,000.0	89.44	89.82	10,238.3	-139.6	12,714.4	12,715.2	0.00	0.00	0.00
23,100.0	89.44	89.82	10,239.3	-139.3	12,814.4	12,815.1	0.00	0.00	0.00
23,200.0	89.44	89.82	10,240.3	-139.0	12,914.4	12,915.1	0.00	0.00	0.00
23,300.0	89.44	89.82	10,241.3	-138.7	13,014.4	13,015.1	0.00	0.00	0.00
23,400.0	89.44	89.82	10,242.2	-138.4	13,114.4	13,115.1	0.00	0.00	0.00
23,478.9	89.44	89.82	10,243.0	-138.1	13,193.3	13,194.0	0.00	0.00	0.00

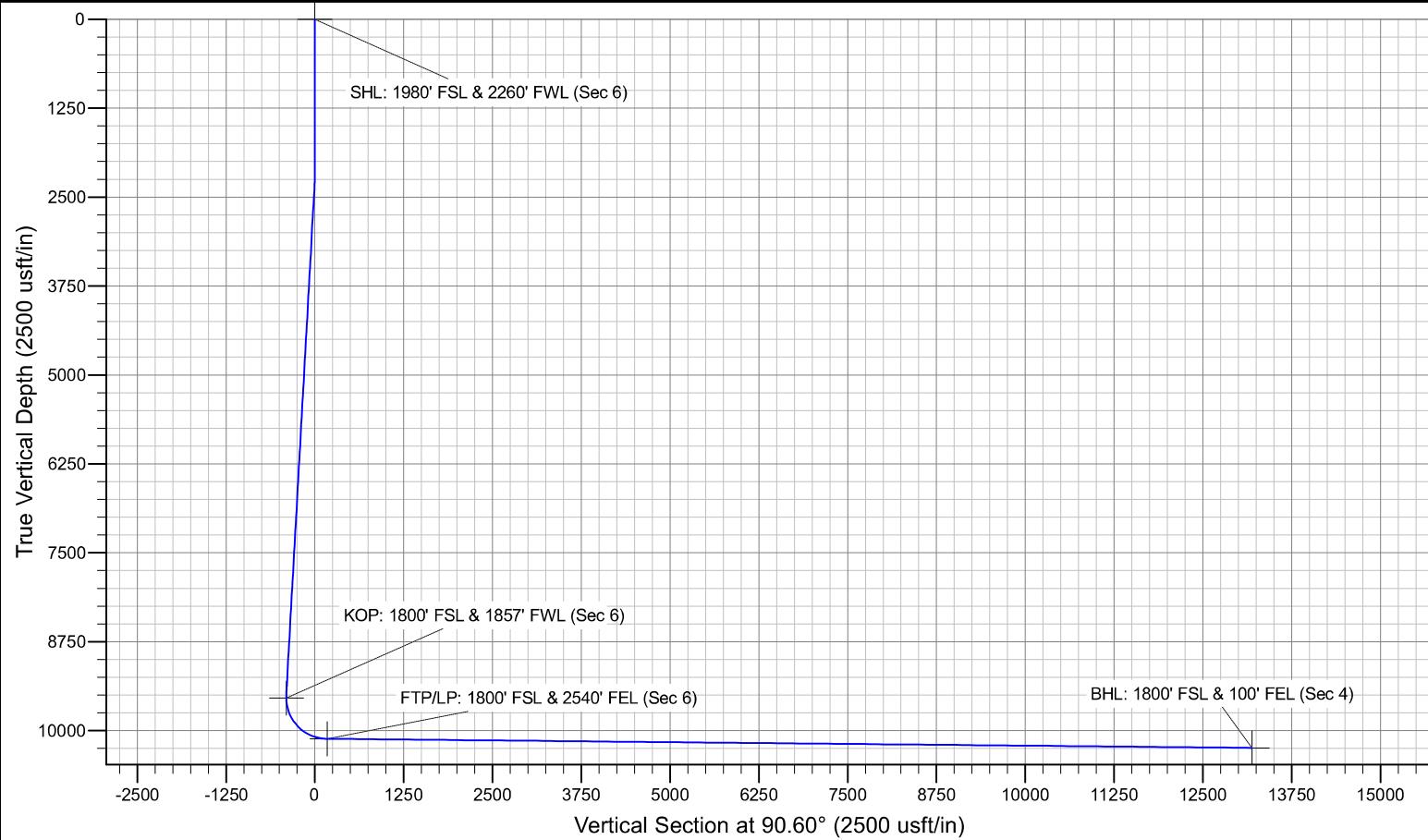
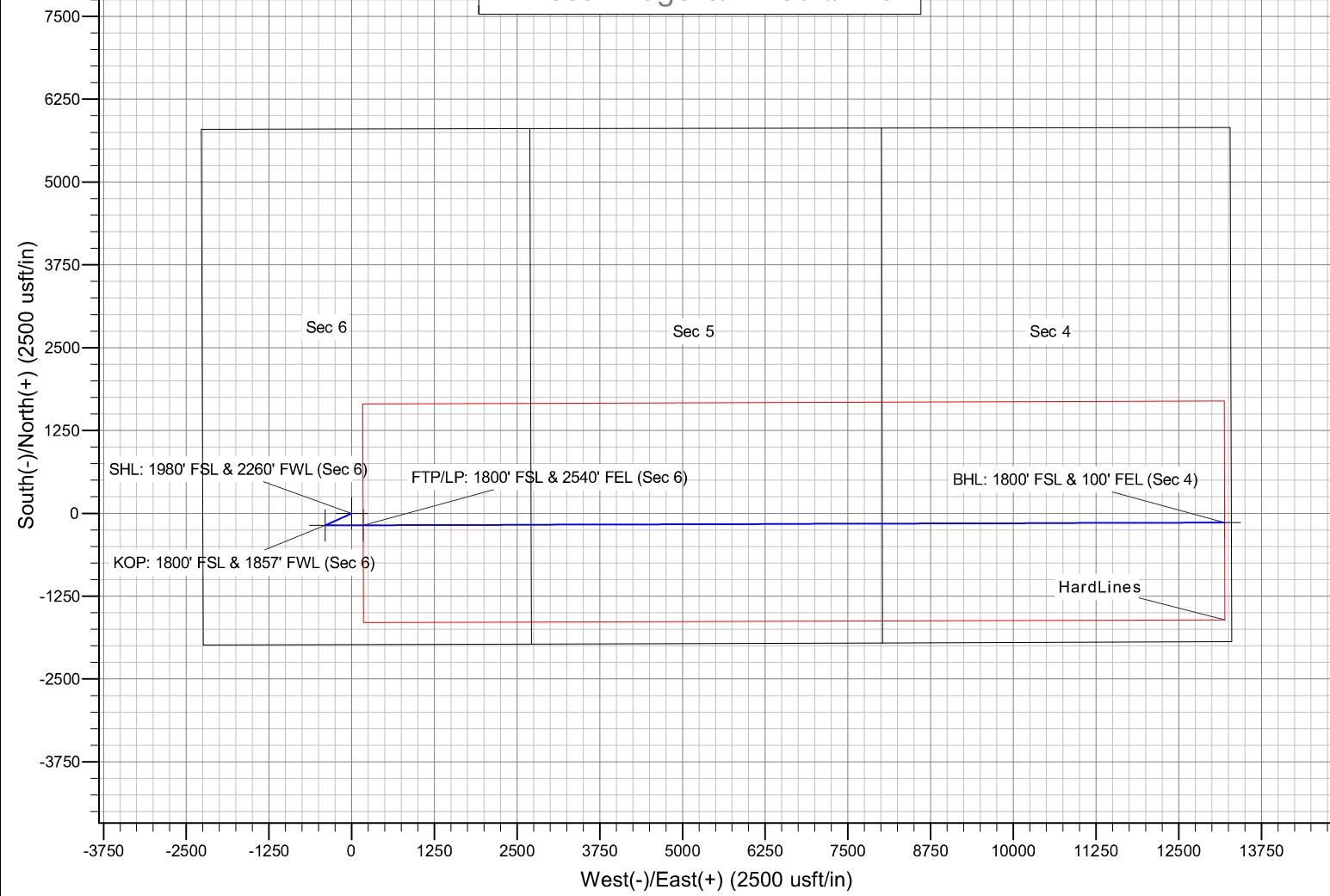
BHL: 1800' FSL & 100' FEL (Sec 4)

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Design Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 1980' FSL & 226	0.00	0.00	0.0	0.0	0.0	0.0	548,191.90	636,665.10	32.5066600	-104.0241012
- plan hits target center										
- Point										
KOP: 1800' FSL & 18!	0.00	0.00	9,543.0	-181.2	-401.5	548,010.70	636,263.60	32.5061652	-104.0254053	
- plan hits target center										
- Point										
FTP/LP: 1800' FSL &	0.00	0.00	10,116.1	-179.4	171.4	548,012.52	636,836.50	32.5061656	-104.0235469	
- plan hits target center										
- Point										
BHL: 1800' FSL & 100	0.00	0.00	10,243.0	-138.1	13,193.3	548,053.80	649,858.40	32.5061680	-103.9813057	
- plan hits target center										
- Point										





Mewbourne Oil Company

**Eddy County, New Mexico NAD 83
Mimosa Ridge 6/4 Fed #715H
Sec 06, T21S, R29E
SHL: 1980' FSL & 2260' FWL (Sec 6)
BHL: 1800' FSL & 100' FEL (Sec 4)**

Plan: Design #1

Standard Planning Report

17 February, 2025

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Project	Eddy County, New Mexico NAD 83		
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone	System Datum:	Ground Level

Site	Mimosa Ridge 6/4 Fed #715H				
Site Position: From: Position Uncertainty:	Map 0.0 usft	Northing: Easting: Slot Radius:	548,191.90 usft 636,665.10 usft 13-3/16 "	Latitude: Longitude:	32.5066600 -104.0241012

Well	Sec 06, T21S, R29E				
Well Position	+N/-S 0.0 usft	Northing:	548,191.90 usft	Latitude:	32.5066600
	+E/-W 0.0 usft	Easting:	636,665.10 usft	Longitude:	-104.0241012
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,489.0 usft	Ground Level:	3,461.0 usft
Grid Convergence:	0.17 °				

Wellbore	BHL: 1800' FSL & 100' FEL (Sec 4)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.38	60.28	48,357.40948624

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	90.60					

Plan Survey Tool Program	Date	2/17/2025
Depth From (usft)	Depth To (usft)	Survey (Wellbore)
1	0.0	23,478.9 Design #1 (BHL: 1800' FSL & 100' FEL (Sec 4))

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	0.00
2,175.0	0.00	0.00	2,175.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
2,350.2	3.50	245.71	2,350.1	-2.2	-4.9	2.00	2.00	0.00	245.71	
9,381.1	3.50	245.71	9,367.9	-179.0	-396.6	0.00	0.00	0.00	0.00	
9,556.4	0.00	0.00	9,543.0	-181.2	-401.5	2.00	-2.00	0.00	180.00	KOP: 1800' FSL & 100' FEL (Sec 4)
10,450.9	89.44	89.82	10,116.0	-179.4	165.9	10.00	10.00	0.00	89.82	
23,478.9	89.44	89.82	10,243.0	-138.1	13,193.3	0.00	0.00	0.00	0.00	BHL: 1800' FSL & 100' FEL (Sec 4)

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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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	0.00
SHL: 1980' FSL & 2260' FWL (Sec 6)										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	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	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	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	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	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	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	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	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	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	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	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	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	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	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	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	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	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	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	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	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,175.0	0.00	0.00	2,175.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,200.0	0.50	245.71	2,200.0	0.0	-0.1	-0.1	2.00	2.00	0.00	0.00
2,300.0	2.50	245.71	2,300.0	-1.1	-2.5	-2.5	2.00	2.00	0.00	0.00
2,350.2	3.50	245.71	2,350.1	-2.2	-4.9	-4.9	2.00	2.00	0.00	0.00
2,400.0	3.50	245.71	2,399.8	-3.5	-7.7	-7.6	0.00	0.00	0.00	0.00
2,500.0	3.50	245.71	2,499.6	-6.0	-13.2	-13.2	0.00	0.00	0.00	0.00
2,600.0	3.50	245.71	2,599.4	-8.5	-18.8	-18.7	0.00	0.00	0.00	0.00
2,700.0	3.50	245.71	2,699.2	-11.0	-24.4	-24.3	0.00	0.00	0.00	0.00
2,800.0	3.50	245.71	2,799.0	-13.5	-29.9	-29.8	0.00	0.00	0.00	0.00
2,900.0	3.50	245.71	2,898.9	-16.0	-35.5	-35.3	0.00	0.00	0.00	0.00
3,000.0	3.50	245.71	2,998.7	-18.5	-41.1	-40.9	0.00	0.00	0.00	0.00
3,100.0	3.50	245.71	3,098.5	-21.1	-46.7	-46.4	0.00	0.00	0.00	0.00
3,200.0	3.50	245.71	3,198.3	-23.6	-52.2	-52.0	0.00	0.00	0.00	0.00
3,300.0	3.50	245.71	3,298.1	-26.1	-57.8	-57.5	0.00	0.00	0.00	0.00
3,400.0	3.50	245.71	3,397.9	-28.6	-63.4	-63.1	0.00	0.00	0.00	0.00
3,500.0	3.50	245.71	3,497.7	-31.1	-68.9	-68.6	0.00	0.00	0.00	0.00
3,600.0	3.50	245.71	3,597.6	-33.6	-74.5	-74.2	0.00	0.00	0.00	0.00
3,700.0	3.50	245.71	3,697.4	-36.1	-80.1	-79.7	0.00	0.00	0.00	0.00
3,800.0	3.50	245.71	3,797.2	-38.7	-85.7	-85.2	0.00	0.00	0.00	0.00
3,900.0	3.50	245.71	3,897.0	-41.2	-91.2	-90.8	0.00	0.00	0.00	0.00
4,000.0	3.50	245.71	3,996.8	-43.7	-96.8	-96.3	0.00	0.00	0.00	0.00
4,100.0	3.50	245.71	4,096.6	-46.2	-102.4	-101.9	0.00	0.00	0.00	0.00
4,200.0	3.50	245.71	4,196.4	-48.7	-107.9	-107.4	0.00	0.00	0.00	0.00
4,300.0	3.50	245.71	4,296.2	-51.2	-113.5	-113.0	0.00	0.00	0.00	0.00
4,400.0	3.50	245.71	4,396.1	-53.7	-119.1	-118.5	0.00	0.00	0.00	0.00
4,500.0	3.50	245.71	4,495.9	-56.3	-124.7	-124.1	0.00	0.00	0.00	0.00
4,600.0	3.50	245.71	4,595.7	-58.8	-130.2	-129.6	0.00	0.00	0.00	0.00
4,700.0	3.50	245.71	4,695.5	-61.3	-135.8	-135.2	0.00	0.00	0.00	0.00
4,800.0	3.50	245.71	4,795.3	-63.8	-141.4	-140.7	0.00	0.00	0.00	0.00
4,900.0	3.50	245.71	4,895.1	-66.3	-146.9	-146.2	0.00	0.00	0.00	0.00
5,000.0	3.50	245.71	4,994.9	-68.8	-152.5	-151.8	0.00	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	3.50	245.71	5,094.7	-71.3	-158.1	-157.3	0.00	0.00	0.00
5,200.0	3.50	245.71	5,194.6	-73.9	-163.7	-162.9	0.00	0.00	0.00
5,300.0	3.50	245.71	5,294.4	-76.4	-169.2	-168.4	0.00	0.00	0.00
5,400.0	3.50	245.71	5,394.2	-78.9	-174.8	-174.0	0.00	0.00	0.00
5,500.0	3.50	245.71	5,494.0	-81.4	-180.4	-179.5	0.00	0.00	0.00
5,600.0	3.50	245.71	5,593.8	-83.9	-185.9	-185.1	0.00	0.00	0.00
5,700.0	3.50	245.71	5,693.6	-86.4	-191.5	-190.6	0.00	0.00	0.00
5,800.0	3.50	245.71	5,793.4	-88.9	-197.1	-196.1	0.00	0.00	0.00
5,900.0	3.50	245.71	5,893.3	-91.5	-202.7	-201.7	0.00	0.00	0.00
6,000.0	3.50	245.71	5,993.1	-94.0	-208.2	-207.2	0.00	0.00	0.00
6,100.0	3.50	245.71	6,092.9	-96.5	-213.8	-212.8	0.00	0.00	0.00
6,200.0	3.50	245.71	6,192.7	-99.0	-219.4	-218.3	0.00	0.00	0.00
6,300.0	3.50	245.71	6,292.5	-101.5	-224.9	-223.9	0.00	0.00	0.00
6,400.0	3.50	245.71	6,392.3	-104.0	-230.5	-229.4	0.00	0.00	0.00
6,500.0	3.50	245.71	6,492.1	-106.5	-236.1	-235.0	0.00	0.00	0.00
6,600.0	3.50	245.71	6,591.9	-109.1	-241.7	-240.5	0.00	0.00	0.00
6,700.0	3.50	245.71	6,691.8	-111.6	-247.2	-246.1	0.00	0.00	0.00
6,800.0	3.50	245.71	6,791.6	-114.1	-252.8	-251.6	0.00	0.00	0.00
6,900.0	3.50	245.71	6,891.4	-116.6	-258.4	-257.1	0.00	0.00	0.00
7,000.0	3.50	245.71	6,991.2	-119.1	-263.9	-262.7	0.00	0.00	0.00
7,100.0	3.50	245.71	7,091.0	-121.6	-269.5	-268.2	0.00	0.00	0.00
7,200.0	3.50	245.71	7,190.8	-124.2	-275.1	-273.8	0.00	0.00	0.00
7,300.0	3.50	245.71	7,290.6	-126.7	-280.7	-279.3	0.00	0.00	0.00
7,400.0	3.50	245.71	7,390.4	-129.2	-286.2	-284.9	0.00	0.00	0.00
7,500.0	3.50	245.71	7,490.3	-131.7	-291.8	-290.4	0.00	0.00	0.00
7,600.0	3.50	245.71	7,590.1	-134.2	-297.4	-296.0	0.00	0.00	0.00
7,700.0	3.50	245.71	7,689.9	-136.7	-303.0	-301.5	0.00	0.00	0.00
7,800.0	3.50	245.71	7,789.7	-139.2	-308.5	-307.0	0.00	0.00	0.00
7,900.0	3.50	245.71	7,889.5	-141.8	-314.1	-312.6	0.00	0.00	0.00
8,000.0	3.50	245.71	7,989.3	-144.3	-319.7	-318.1	0.00	0.00	0.00
8,100.0	3.50	245.71	8,089.1	-146.8	-325.2	-323.7	0.00	0.00	0.00
8,200.0	3.50	245.71	8,189.0	-149.3	-330.8	-329.2	0.00	0.00	0.00
8,300.0	3.50	245.71	8,288.8	-151.8	-336.4	-334.8	0.00	0.00	0.00
8,400.0	3.50	245.71	8,388.6	-154.3	-342.0	-340.3	0.00	0.00	0.00
8,500.0	3.50	245.71	8,488.4	-156.8	-347.5	-345.9	0.00	0.00	0.00
8,600.0	3.50	245.71	8,588.2	-159.4	-353.1	-351.4	0.00	0.00	0.00
8,700.0	3.50	245.71	8,688.0	-161.9	-358.7	-357.0	0.00	0.00	0.00
8,800.0	3.50	245.71	8,787.8	-164.4	-364.2	-362.5	0.00	0.00	0.00
8,900.0	3.50	245.71	8,887.6	-166.9	-369.8	-368.0	0.00	0.00	0.00
9,000.0	3.50	245.71	8,987.5	-169.4	-375.4	-373.6	0.00	0.00	0.00
9,100.0	3.50	245.71	9,087.3	-171.9	-381.0	-379.1	0.00	0.00	0.00
9,200.0	3.50	245.71	9,187.1	-174.4	-386.5	-384.7	0.00	0.00	0.00
9,300.0	3.50	245.71	9,286.9	-177.0	-392.1	-390.2	0.00	0.00	0.00
9,381.1	3.50	245.71	9,367.9	-179.0	-396.6	-394.7	0.00	0.00	0.00
9,400.0	3.13	245.71	9,386.7	-179.4	-397.6	-395.7	2.00	-2.00	0.00
9,500.0	1.13	245.71	9,486.6	-181.0	-401.0	-399.1	2.00	-2.00	0.00
9,556.4	0.00	0.00	9,543.0	-181.2	-401.5	-399.6	2.00	-2.00	0.00
KOP: 1800' FSL & 1857' FWL (Sec 6)									
9,600.0	4.36	89.82	9,586.6	-181.2	-399.8	-397.9	10.00	10.00	0.00
9,650.0	9.36	89.82	9,636.2	-181.2	-393.9	-391.9	10.00	10.00	0.00
9,700.0	14.36	89.82	9,685.1	-181.1	-383.6	-381.7	10.00	10.00	0.00
9,750.0	19.36	89.82	9,733.0	-181.1	-369.1	-367.2	10.00	10.00	0.00
9,800.0	24.36	89.82	9,779.4	-181.0	-350.5	-348.6	10.00	10.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,850.0	29.36	89.82	9,824.0	-181.0	-327.9	-326.0	10.00	10.00	0.00
9,900.0	34.36	89.82	9,866.4	-180.9	-301.5	-299.6	10.00	10.00	0.00
9,950.0	39.36	89.82	9,906.4	-180.8	-271.5	-269.6	10.00	10.00	0.00
10,000.0	44.36	89.82	9,943.6	-180.7	-238.2	-236.3	10.00	10.00	0.00
10,050.0	49.36	89.82	9,977.8	-180.6	-201.7	-199.8	10.00	10.00	0.00
10,100.0	54.36	89.82	10,008.7	-180.4	-162.4	-160.5	10.00	10.00	0.00
10,150.0	59.36	89.82	10,036.0	-180.3	-120.5	-118.7	10.00	10.00	0.00
10,200.0	64.36	89.82	10,059.6	-180.2	-76.5	-74.6	10.00	10.00	0.00
10,250.0	69.35	89.82	10,079.2	-180.0	-30.5	-28.6	10.00	10.00	0.00
10,300.0	74.35	89.82	10,094.8	-179.9	17.0	18.9	10.00	10.00	0.00
10,350.0	79.35	89.82	10,106.2	-179.7	65.7	67.5	10.00	10.00	0.00
10,400.0	84.35	89.82	10,113.2	-179.6	115.1	117.0	10.00	10.00	0.00
10,450.9	89.44	89.82	10,116.0	-179.4	165.9	167.8	10.00	10.00	0.00
10,456.4	89.44	89.82	10,116.1	-179.4	171.4	173.3	0.00	0.00	0.00
FTP/LP: 1800' FSL & 2540' FEL (Sec 6)									
10,500.0	89.44	89.82	10,116.5	-179.2	215.0	216.9	0.00	0.00	0.00
10,600.0	89.44	89.82	10,117.5	-178.9	315.0	316.9	0.00	0.00	0.00
10,700.0	89.44	89.82	10,118.4	-178.6	415.0	416.9	0.00	0.00	0.00
10,800.0	89.44	89.82	10,119.4	-178.3	515.0	516.9	0.00	0.00	0.00
10,900.0	89.44	89.82	10,120.4	-178.0	615.0	616.9	0.00	0.00	0.00
11,000.0	89.44	89.82	10,121.4	-177.7	715.0	716.8	0.00	0.00	0.00
11,100.0	89.44	89.82	10,122.3	-177.3	815.0	816.8	0.00	0.00	0.00
11,200.0	89.44	89.82	10,123.3	-177.0	915.0	916.8	0.00	0.00	0.00
11,300.0	89.44	89.82	10,124.3	-176.7	1,015.0	1,016.8	0.00	0.00	0.00
11,400.0	89.44	89.82	10,125.3	-176.4	1,115.0	1,116.8	0.00	0.00	0.00
11,500.0	89.44	89.82	10,126.2	-176.1	1,215.0	1,216.8	0.00	0.00	0.00
11,600.0	89.44	89.82	10,127.2	-175.8	1,315.0	1,316.8	0.00	0.00	0.00
11,700.0	89.44	89.82	10,128.2	-175.4	1,415.0	1,416.7	0.00	0.00	0.00
11,800.0	89.44	89.82	10,129.2	-175.1	1,515.0	1,516.7	0.00	0.00	0.00
11,900.0	89.44	89.82	10,130.1	-174.8	1,615.0	1,616.7	0.00	0.00	0.00
12,000.0	89.44	89.82	10,131.1	-174.5	1,715.0	1,716.7	0.00	0.00	0.00
12,100.0	89.44	89.82	10,132.1	-174.2	1,815.0	1,816.7	0.00	0.00	0.00
12,200.0	89.44	89.82	10,133.1	-173.9	1,915.0	1,916.7	0.00	0.00	0.00
12,300.0	89.44	89.82	10,134.0	-173.5	2,015.0	2,016.7	0.00	0.00	0.00
12,400.0	89.44	89.82	10,135.0	-173.2	2,114.9	2,116.6	0.00	0.00	0.00
12,500.0	89.44	89.82	10,136.0	-172.9	2,214.9	2,216.6	0.00	0.00	0.00
12,600.0	89.44	89.82	10,136.9	-172.6	2,314.9	2,316.6	0.00	0.00	0.00
12,700.0	89.44	89.82	10,137.9	-172.3	2,414.9	2,416.6	0.00	0.00	0.00
12,800.0	89.44	89.82	10,138.9	-172.0	2,514.9	2,516.6	0.00	0.00	0.00
12,900.0	89.44	89.82	10,139.9	-171.6	2,614.9	2,616.6	0.00	0.00	0.00
13,000.0	89.44	89.82	10,140.8	-171.3	2,714.9	2,716.6	0.00	0.00	0.00
13,100.0	89.44	89.82	10,141.8	-171.0	2,814.9	2,816.5	0.00	0.00	0.00
13,200.0	89.44	89.82	10,142.8	-170.7	2,914.9	2,916.5	0.00	0.00	0.00
13,300.0	89.44	89.82	10,143.8	-170.4	3,014.9	3,016.5	0.00	0.00	0.00
13,400.0	89.44	89.82	10,144.7	-170.1	3,114.9	3,116.5	0.00	0.00	0.00
13,500.0	89.44	89.82	10,145.7	-169.7	3,214.9	3,216.5	0.00	0.00	0.00
13,600.0	89.44	89.82	10,146.7	-169.4	3,314.9	3,316.5	0.00	0.00	0.00
13,700.0	89.44	89.82	10,147.7	-169.1	3,414.9	3,416.5	0.00	0.00	0.00
13,800.0	89.44	89.82	10,148.6	-168.8	3,514.9	3,516.4	0.00	0.00	0.00
13,900.0	89.44	89.82	10,149.6	-168.5	3,614.9	3,616.4	0.00	0.00	0.00
14,000.0	89.44	89.82	10,150.6	-168.1	3,714.9	3,716.4	0.00	0.00	0.00
14,100.0	89.44	89.82	10,151.6	-167.8	3,814.9	3,816.4	0.00	0.00	0.00
14,200.0	89.44	89.82	10,152.5	-167.5	3,914.9	3,916.4	0.00	0.00	0.00
14,300.0	89.44	89.82	10,153.5	-167.2	4,014.8	4,016.4	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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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)
14,400.0	89.44	89.82	10,154.5	-166.9	4,114.8	4,116.4	0.00	0.00	0.00
14,500.0	89.44	89.82	10,155.5	-166.6	4,214.8	4,216.3	0.00	0.00	0.00
14,600.0	89.44	89.82	10,156.4	-166.2	4,314.8	4,316.3	0.00	0.00	0.00
14,700.0	89.44	89.82	10,157.4	-165.9	4,414.8	4,416.3	0.00	0.00	0.00
14,800.0	89.44	89.82	10,158.4	-165.6	4,514.8	4,516.3	0.00	0.00	0.00
14,900.0	89.44	89.82	10,159.4	-165.3	4,614.8	4,616.3	0.00	0.00	0.00
15,000.0	89.44	89.82	10,160.3	-165.0	4,714.8	4,716.3	0.00	0.00	0.00
15,100.0	89.44	89.82	10,161.3	-164.7	4,814.8	4,816.3	0.00	0.00	0.00
15,200.0	89.44	89.82	10,162.3	-164.3	4,914.8	4,916.3	0.00	0.00	0.00
15,300.0	89.44	89.82	10,163.3	-164.0	5,014.8	5,016.2	0.00	0.00	0.00
15,400.0	89.44	89.82	10,164.2	-163.7	5,114.8	5,116.2	0.00	0.00	0.00
15,500.0	89.44	89.82	10,165.2	-163.4	5,214.8	5,216.2	0.00	0.00	0.00
15,600.0	89.44	89.82	10,166.2	-163.1	5,314.8	5,316.2	0.00	0.00	0.00
15,700.0	89.44	89.82	10,167.2	-162.8	5,414.8	5,416.2	0.00	0.00	0.00
15,800.0	89.44	89.82	10,168.1	-162.4	5,514.8	5,516.2	0.00	0.00	0.00
15,900.0	89.44	89.82	10,169.1	-162.1	5,614.8	5,616.2	0.00	0.00	0.00
16,000.0	89.44	89.82	10,170.1	-161.8	5,714.8	5,716.1	0.00	0.00	0.00
16,100.0	89.44	89.82	10,171.1	-161.5	5,814.8	5,816.1	0.00	0.00	0.00
16,200.0	89.44	89.82	10,172.0	-161.2	5,914.7	5,916.1	0.00	0.00	0.00
16,300.0	89.44	89.82	10,173.0	-160.9	6,014.7	6,016.1	0.00	0.00	0.00
16,400.0	89.44	89.82	10,174.0	-160.5	6,114.7	6,116.1	0.00	0.00	0.00
16,500.0	89.44	89.82	10,175.0	-160.2	6,214.7	6,216.1	0.00	0.00	0.00
16,600.0	89.44	89.82	10,175.9	-159.9	6,314.7	6,316.1	0.00	0.00	0.00
16,700.0	89.44	89.82	10,176.9	-159.6	6,414.7	6,416.0	0.00	0.00	0.00
16,800.0	89.44	89.82	10,177.9	-159.3	6,514.7	6,516.0	0.00	0.00	0.00
16,900.0	89.44	89.82	10,178.9	-159.0	6,614.7	6,616.0	0.00	0.00	0.00
17,000.0	89.44	89.82	10,179.8	-158.6	6,714.7	6,716.0	0.00	0.00	0.00
17,100.0	89.44	89.82	10,180.8	-158.3	6,814.7	6,816.0	0.00	0.00	0.00
17,200.0	89.44	89.82	10,181.8	-158.0	6,914.7	6,916.0	0.00	0.00	0.00
17,300.0	89.44	89.82	10,182.8	-157.7	7,014.7	7,016.0	0.00	0.00	0.00
17,400.0	89.44	89.82	10,183.7	-157.4	7,114.7	7,115.9	0.00	0.00	0.00
17,500.0	89.44	89.82	10,184.7	-157.1	7,214.7	7,215.9	0.00	0.00	0.00
17,600.0	89.44	89.82	10,185.7	-156.7	7,314.7	7,315.9	0.00	0.00	0.00
17,700.0	89.44	89.82	10,186.7	-156.4	7,414.7	7,415.9	0.00	0.00	0.00
17,800.0	89.44	89.82	10,187.6	-156.1	7,514.7	7,515.9	0.00	0.00	0.00
17,900.0	89.44	89.82	10,188.6	-155.8	7,614.7	7,615.9	0.00	0.00	0.00
18,000.0	89.44	89.82	10,189.6	-155.5	7,714.7	7,715.9	0.00	0.00	0.00
18,100.0	89.44	89.82	10,190.6	-155.2	7,814.6	7,815.8	0.00	0.00	0.00
18,200.0	89.44	89.82	10,191.5	-154.8	7,914.6	7,915.8	0.00	0.00	0.00
18,300.0	89.44	89.82	10,192.5	-154.5	8,014.6	8,015.8	0.00	0.00	0.00
18,400.0	89.44	89.82	10,193.5	-154.2	8,114.6	8,115.8	0.00	0.00	0.00
18,500.0	89.44	89.82	10,194.5	-153.9	8,214.6	8,215.8	0.00	0.00	0.00
18,600.0	89.44	89.82	10,195.4	-153.6	8,314.6	8,315.8	0.00	0.00	0.00
18,700.0	89.44	89.82	10,196.4	-153.3	8,414.6	8,415.8	0.00	0.00	0.00
18,800.0	89.44	89.82	10,197.4	-152.9	8,514.6	8,515.7	0.00	0.00	0.00
18,900.0	89.44	89.82	10,198.4	-152.6	8,614.6	8,615.7	0.00	0.00	0.00
19,000.0	89.44	89.82	10,199.3	-152.3	8,714.6	8,715.7	0.00	0.00	0.00
19,100.0	89.44	89.82	10,200.3	-152.0	8,814.6	8,815.7	0.00	0.00	0.00
19,200.0	89.44	89.82	10,201.3	-151.7	8,914.6	8,915.7	0.00	0.00	0.00
19,300.0	89.44	89.82	10,202.3	-151.3	9,014.6	9,015.7	0.00	0.00	0.00
19,400.0	89.44	89.82	10,203.2	-151.0	9,114.6	9,115.7	0.00	0.00	0.00
19,500.0	89.44	89.82	10,204.2	-150.7	9,214.6	9,215.6	0.00	0.00	0.00
19,600.0	89.44	89.82	10,205.2	-150.4	9,314.6	9,315.6	0.00	0.00	0.00
19,700.0	89.44	89.82	10,206.2	-150.1	9,414.6	9,415.6	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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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)
19,800.0	89.44	89.82	10,207.1	-149.8	9,514.6	9,515.6	0.00	0.00	0.00
19,900.0	89.44	89.82	10,208.1	-149.4	9,614.6	9,615.6	0.00	0.00	0.00
20,000.0	89.44	89.82	10,209.1	-149.1	9,714.5	9,715.6	0.00	0.00	0.00
20,100.0	89.44	89.82	10,210.1	-148.8	9,814.5	9,815.6	0.00	0.00	0.00
20,200.0	89.44	89.82	10,211.0	-148.5	9,914.5	9,915.5	0.00	0.00	0.00
20,300.0	89.44	89.82	10,212.0	-148.2	10,014.5	10,015.5	0.00	0.00	0.00
20,400.0	89.44	89.82	10,213.0	-147.9	10,114.5	10,115.5	0.00	0.00	0.00
20,500.0	89.44	89.82	10,214.0	-147.5	10,214.5	10,215.5	0.00	0.00	0.00
20,600.0	89.44	89.82	10,214.9	-147.2	10,314.5	10,315.5	0.00	0.00	0.00
20,700.0	89.44	89.82	10,215.9	-146.9	10,414.5	10,415.5	0.00	0.00	0.00
20,800.0	89.44	89.82	10,216.9	-146.6	10,514.5	10,515.5	0.00	0.00	0.00
20,900.0	89.44	89.82	10,217.9	-146.3	10,614.5	10,615.4	0.00	0.00	0.00
21,000.0	89.44	89.82	10,218.8	-146.0	10,714.5	10,715.4	0.00	0.00	0.00
21,100.0	89.44	89.82	10,219.8	-145.6	10,814.5	10,815.4	0.00	0.00	0.00
21,200.0	89.44	89.82	10,220.8	-145.3	10,914.5	10,915.4	0.00	0.00	0.00
21,300.0	89.44	89.82	10,221.8	-145.0	11,014.5	11,015.4	0.00	0.00	0.00
21,400.0	89.44	89.82	10,222.7	-144.7	11,114.5	11,115.4	0.00	0.00	0.00
21,500.0	89.44	89.82	10,223.7	-144.4	11,214.5	11,215.4	0.00	0.00	0.00
21,600.0	89.44	89.82	10,224.7	-144.1	11,314.5	11,315.4	0.00	0.00	0.00
21,700.0	89.44	89.82	10,225.7	-143.7	11,414.5	11,415.3	0.00	0.00	0.00
21,800.0	89.44	89.82	10,226.6	-143.4	11,514.5	11,515.3	0.00	0.00	0.00
21,900.0	89.44	89.82	10,227.6	-143.1	11,614.4	11,615.3	0.00	0.00	0.00
22,000.0	89.44	89.82	10,228.6	-142.8	11,714.4	11,715.3	0.00	0.00	0.00
22,100.0	89.44	89.82	10,229.6	-142.5	11,814.4	11,815.3	0.00	0.00	0.00
22,200.0	89.44	89.82	10,230.5	-142.2	11,914.4	11,915.3	0.00	0.00	0.00
22,300.0	89.44	89.82	10,231.5	-141.8	12,014.4	12,015.3	0.00	0.00	0.00
22,400.0	89.44	89.82	10,232.5	-141.5	12,114.4	12,115.2	0.00	0.00	0.00
22,500.0	89.44	89.82	10,233.5	-141.2	12,214.4	12,215.2	0.00	0.00	0.00
22,600.0	89.44	89.82	10,234.4	-140.9	12,314.4	12,315.2	0.00	0.00	0.00
22,700.0	89.44	89.82	10,235.4	-140.6	12,414.4	12,415.2	0.00	0.00	0.00
22,800.0	89.44	89.82	10,236.4	-140.3	12,514.4	12,515.2	0.00	0.00	0.00
22,900.0	89.44	89.82	10,237.4	-139.9	12,614.4	12,615.2	0.00	0.00	0.00
23,000.0	89.44	89.82	10,238.3	-139.6	12,714.4	12,715.2	0.00	0.00	0.00
23,100.0	89.44	89.82	10,239.3	-139.3	12,814.4	12,815.1	0.00	0.00	0.00
23,200.0	89.44	89.82	10,240.3	-139.0	12,914.4	12,915.1	0.00	0.00	0.00
23,300.0	89.44	89.82	10,241.3	-138.7	13,014.4	13,015.1	0.00	0.00	0.00
23,400.0	89.44	89.82	10,242.2	-138.4	13,114.4	13,115.1	0.00	0.00	0.00
23,478.9	89.44	89.82	10,243.0	-138.1	13,193.3	13,194.0	0.00	0.00	0.00

BHL: 1800' FSL & 100' FEL (Sec 4)

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Design Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 1980' FSL & 226	0.00	0.00	0.0	0.0	0.0	0.0	548,191.90	636,665.10	32.5066600	-104.0241012
- plan hits target center										
- Point										
KOP: 1800' FSL & 18!	0.00	0.00	9,543.0	-181.2	-401.5	548,010.70	636,263.60	32.5061652	-104.0254053	
- plan hits target center										
- Point										
FTP/LP: 1800' FSL &	0.00	0.00	10,116.1	-179.4	171.4	548,012.52	636,836.50	32.5061656	-104.0235469	
- plan hits target center										
- Point										
BHL: 1800' FSL & 100	0.00	0.00	10,243.0	-138.1	13,193.3	548,053.80	649,858.40	32.5061680	-103.9813057	
- plan hits target center										
- Point										

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:** 4/8/25

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
MIMOSA RIDGE 6/4 FED COM 715H		6 21S 29E	1980' FNL x 2260' FWL	1500	2500	3000
				Y1-300 Y2-200 Y3-100	Y1-1500 Y2-1000 Y3-500	Y1-500 Y2-350 Y3-200

IV. Central Delivery Point Name: MIMOSA RIDGE 6/4 FED COM 715H [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
MIMOSA RIDGE 6/4 FED COM 715H		5/8/25	6/8/25	7/8/25	7/23/25	7/28/25

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.

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:	<i>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	4/8/25
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 be 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

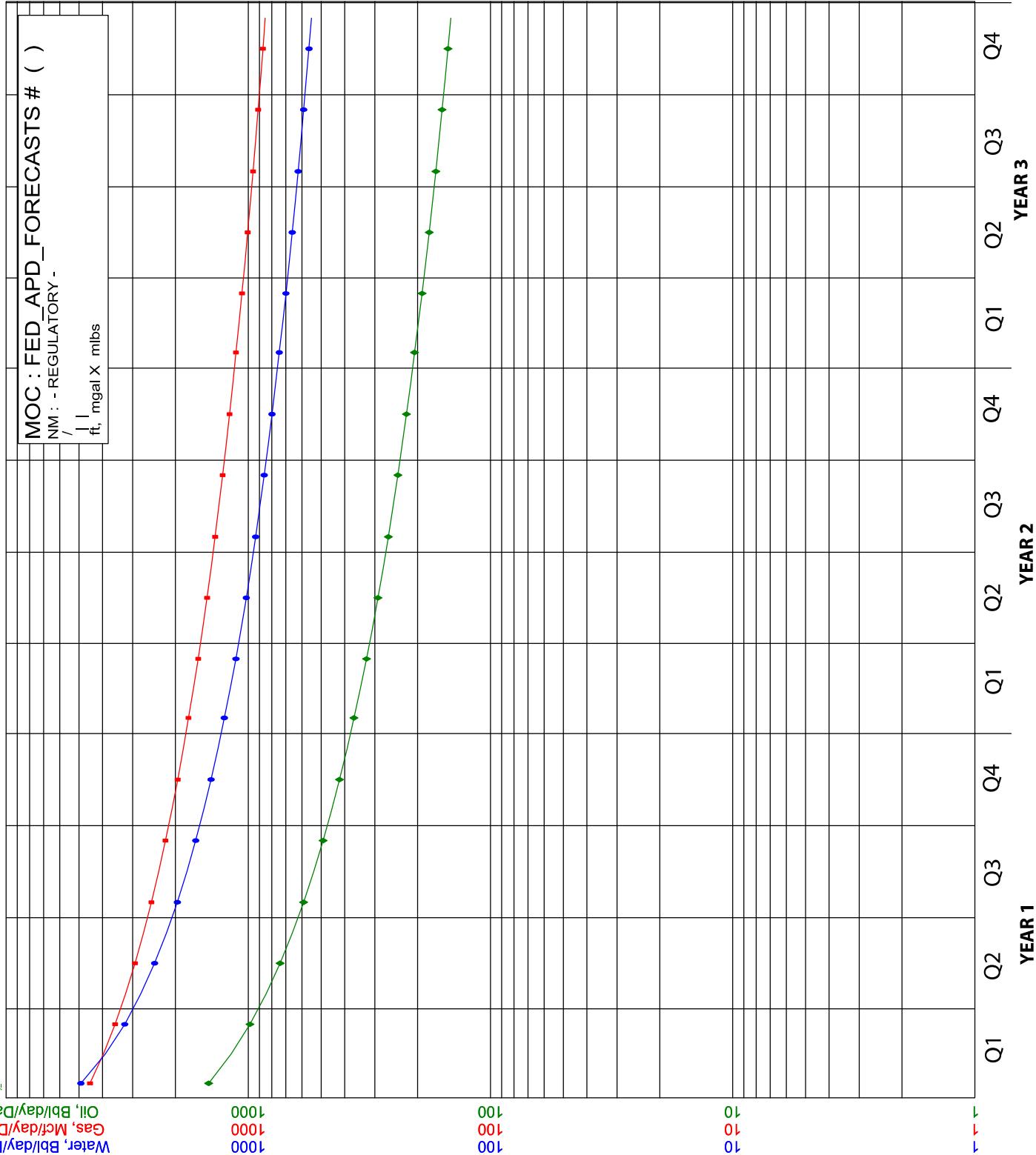
the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily 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.

Oil, Bbl/day	QuaHEDDYWFMP2.5	Ref= 1/2025
Cum=	43040	Rem=
EUR=	43040	Yrs=
Yrs=	3.00	Qi=
Qi=	1645.	b=
b=	0.95000	De=
De=	77.00000	Df=
Df=	24.15597	Qab=
Qab=	143.	

Gas, Mcf/day	QuaHEDDYWFMP2.5	Ref= 1/2025
Cum=	190343	Rem=
EUR=	1903434	Yrs=
Yrs=	3.000	Qi=
Qi=	4825.0	b=
b=	1.100000	De=
De=	62.500000	Df=
Df=	20.355806	Qab=
Qab=	841.9	

Water, Bbl/d	QuaHEDDYWFMP2.5	Ref= 1/2025
Cum=	0	Rem=
EUR=	1474750	Yrs=
Yrs=	3.000	Qi=
Qi=	5625.0	b=
b=	1.100000	De=
De=	77.000000	Df=
Df=	21.653105	Qab=
Qab=	542.2	



Me

Well Location **GL: 3461'**

Point	Calls	Leases
SHL	SHL: 1980' FSL & 2260' FWL (Sec 6)	NMNM 0029588
KOP	KOP: 1800' FSL & 1857' FWL (Sec 6)	NMNM 0029588
FTP	FTP/LP: 1800' FSL & 2540' FEL (Sec 6)	NMNM 0029588
BHL	BHL: 1800' FSL & 100' FEL (Sec 4)	NMNM 0029588

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Res
Rustler	1007'	Dolomite/Anhydrite	Usable Water
Castile			
Salt Top	1292'	Salt	None
Marker Bed 126			
Salt Base	1707'	Salt	None
Yates	1885'	Sandstone	Oil/Natural Gas
Seven Rivers			
Queen			
Capitan	2150'	Limestone/Dolomite	Usable Water
Grayburg			
San Andres			

Casing Program Design A

String	Hole Size	Top MD	Top TVD	Bot MD
Surface	26"	0'	0'	725'
Intermediate 1	17.5"	0'	0'	1290'
Intermediate 1	17.5"	1290'	1290'	1893'
Intermediate 1	17.5"	1893'	1893'	1975'
Intermediate 2	12.25"	0'	0'	3798'

Me

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack
18.625 in	LEAD	1110	12.5	2.12
	TAIL	200	14.8	1.34
13.375 in	LEAD	750	12.5	2.12
	TAIL	200	14.8	1.34
1st Stg 9.625 in	LEAD	190	12.5	2.12
	TAIL	200	14.8	1.34
2nd Stg 9.625 in	LEAD	320	12.5	2.12
	TAIL	100	14.8	1.34
7.625 in	LEAD	360	12.5	2.12
	TAIL	400	15.6	1.18
5.5 in	LEAD	800	13.5	1.85

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Type
17.5	20	5M	Annular
		5M	Blind Ram
			Pipe Ram
			Double Ram
		Other*	

Me

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (9556.4') to surface (horizontal well – vertical)
Y	No logs are planned based on well control or offset log information. Offset
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

<input type="checkbox"/>	Caliper	<input type="checkbox"/>	
<input type="checkbox"/>	Compensated Densilog	<input type="checkbox"/>	Con
<input type="checkbox"/>	Dip Meter Log	<input checked="" type="checkbox"/>	I
<input type="checkbox"/>	Dual Lateral Log/Microspherically Focused	<input type="checkbox"/>	
<input type="checkbox"/>	Gamma Ray Log	<input checked="" type="checkbox"/>	Meas
<input type="checkbox"/>	Other	<input type="checkbox"/>	Po
<input type="checkbox"/>	Sonic Log	<input type="checkbox"/>	Spo

Drilling Conditions

Condition	Specify what type and where
BH Pressure at deepest TVD	6125 psi
BH Temperature	165
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud stabilizers. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is present, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, the operator will take appropriate safety measures.

Me

Other facets of operation

Mewbourne Oil Company also requests approval to implement additional designs as described

Offline Cementing Variance: Variance is requested to perform offline cementing according to well is in Potash.

Casing Program Design B

String	Hole Size	Top MD	Top TVD	Bot MD
Surface	26"	0'	0'	725'
Intermediate 1	17.5"	0'	0'	1290'
Intermediate 1	17.5"	1290'	1290'	1893'
Intermediate 1	17.5"	1893'	1893'	1975'
Intermediate 2	12.25"	0'	0'	3798'
Production	8.75"	0'	0'	9410'
Production	8.75"	9410'	9410'	1046'
Liner	6.75"	9556'	9543'	23479'

All casing strings will be tested in accordance with BLM's minimum standards.

Is casing new? If used, attach certification as required in Onshore Order #1

Is casing API approved? If no, attach casing specification sheet.

Is premium or uncommon casing planned? If yes attach casing specification sheet.

Does the above casing design meet or exceed BLM's minimum standards? If not provide justification.

Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure?

Is well located within Capitan Reef?

If yes, does production casing 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-Q?

If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into p

Mewbourne Oil Company, Mimosa Ridge 6-4 Fed 715H

Sec 6, T21S, R29E

SHL: 1980' FSL 2260' FWL (Sec 6)

BHL: 1800' FSL 100' FEL (Sec 4)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry	
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD				SF Collapse	SF Burst	SF Jt Tension
						1.8 Wet	1.8 Wet				
Surface	26"	0'	0'	725'	725'	18 5/8" 87.5# J55 BTC	1.94	6.94	20.95	21.55	
Intermediate 1	17.5"	0'	0'	1290'	1290'	13.375" 48# H40 STC	1.13	2.53	3.23	5.42	
Intermediate 1	17.5"	1290'	1290'	1893'	1893'	13.375" 54.5# J55 STC	1.13	2.72	13.57	22.53	
Intermediate 1	17.5"	1893'	1893'	1975'	1975'	13.375" 61# J55 STC	1.47	2.95	118.95	192.32	
Intermediate 2	12.25"	0'	0'	3798'	3798'	9.625" 36# J55 LTC	1.19	2.07	3.31	4.12	
Production	8.75"	0'	0'	9410'	9410'	7 5/8" 29.7# P110 LTC	1.13	1.97	2.71	3.31	
Production	8.75"	9410'	9410'	9556'	9543'	7 5/8" 29.7# L80-IC Wedge 441	1.24	1.43	117.75	157.08	
Liner	6.75"	9356'	9327'	23479'	10243'	5.5" 20# HPP110 Talon	1.81	2.06	1.94	2.27	

Cement Program

Casing	# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description	
18.625 in	LEAD	1110	12.5	2.12	0' - 650'	100%	Class C: Salt, Gel, Extender, LCM	
	TAIL	200	14.8	1.34	650' - 725'		Class C: Retarder	
13.375 in	LEAD	750	12.5	2.12	0' - 1690'	50%	Class C: Salt, Gel, Extender, LCM	
	TAIL	200	14.8	1.34	1690' - 1975'		Class C: Retarder	
1st Stg 9.625 in	LEAD	190	12.5	2.12	2125' - 3137'	25%	Class C: Salt, Gel, Extender, LCM	
	TAIL	200	14.8	1.34	3137' - 3798'		Class C: Retarder	
9 5/8" DV Tool @ 2125'								
2nd Stg 9.625 in	LEAD	320	12.5	2.12	0' - 1775'	25%	Class C: Salt, Gel, Extender, LCM	
	TAIL	100	14.8	1.34	1775' - 2125'		Class C: Retarder	
7.625 in	LEAD	360	12.5	2.12	3598' - 7292'	25%	Class C: Salt, Gel, Extender, LCM, Defoamer	
	TAIL	400	15.6	1.18	7292' - 9556.4'		Class H: Retarder, Fluid Loss, Defoamer	
5.5 in	LEAD	800	13.5	1.85	9356.4' - 23478.9'	1480	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 725'	8.4 - 8.6	Fresh Water
725' - 1975'	10.0 - 10.2	Brine
1975' - 3798'	8.4 - 8.6	Fresh Water
3798' - 9556.4'	8.6 - 9.7	Cut-Brine
9556.4' - 23478.9'	10.0 - 11.5	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	1007'	Usable Water	Yesso		
Castile			Delaware (Lamar)		
Salt Top	1292'	None	Bell Canyon		
Marker Bed 126			Cherry Canyon		
Salt Base	1707'	None	Manzanita Marker		
Yates	1885'	Oil/Natural Gas	Basal Brushy Canyon		
Seven Rivers			Bone Spring	6672'	Oil/Natural Gas
Queen	2150'	Usable Water	1st Bone Spring Sand	7635'	Oil/Natural Gas
Capitan			2nd Bone Spring Sand	8218'	Oil/Natural Gas
Grayburg			3rd Bone Spring Sand	9527'	Oil/Natural Gas
San Andres			Wolfcamp	9931'	Oil/Natural Gas

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

Is casing new? If used, attach certification as required in Onshore Order #1	Y or N
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
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.	Y
Is well located in SOPA but not in R-111-Q?	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-Q 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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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, Mimosa Ridge 6-4 Fed 715H

Sec 6, T21S, R29E

SHL: 1980' FSL 2260' FWL (Sec 6)

BHL: 1800' FSL 100' FEL (Sec 4)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	26"	0'	0'	725'	725'	18 5/8" 87.5# J55 BTC	1.94	6.94	20.95	21.55
Intermediate 1	17.5"	0'	0'	1290'	1290'	13.375" 48# H40 STC	1.13	2.53	3.23	5.42
Intermediate 1	17.5"	1290'	1290'	1893'	1893'	13.375" 54# J55 STC	1.13	2.72	13.57	22.53
Intermediate 1	17.5"	1893'	1893'	1975'	1975'	13.375" 61# J55 STC	1.47	2.95	118.95	192.32
Intermediate 2	12.25"	0'	0'	3798'	3798'	9.625" 36# J55 LTC	1.19	2.07	3.31	4.12
Production	8.75"	0'	0'	9410'	9410'	7 5/8" 29.7# P110 LTC	1.13	1.86	2.48	3.03
Production	8.75"	9410'	9410'	10456'	10116'	7 5/8" 29.7# L80-IC Wedge 441	1.24	1.35	16.47	21.98
Liner	6.75"	9556'	9543'	23479'	10243'	5.5" 20# HPP110 Talon	1.81	2.06	1.97	2.30

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
18.625 in	LEAD	1110	12.5	2.12	0' - 650'	2360	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	650' - 725'	268		Class C: Retarder
13.375 in	LEAD	750	12.5	2.12	0' - 1690'	1590	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1690' - 1975'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	190	12.5	2.12	2125' - 3137'	410	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3137' - 3798'	268		Class C: Retarder
9 5/8" DV Tool @ 2125'								
2nd Stg 9.625 in	LEAD	320	12.5	2.12	0' - 1775'	680	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	1775' - 2125'	134		Class C: Retarder
1st Stg 7.625 in	LEAD	330	12.5	2.12	3598' - 7157'	700	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	550	15.6	1.18	7157' - 10456.4'	649		Class H: Retarder, Fluid Loss, Defoamer
5.5 in	LEAD	790	13.5	1.85	9556.4' - 23478.9'	1470	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Design B - Mud Program

Depth	Mud Wt	Mud Type
0' - 725'	8.4 - 8.6	Fresh Water
725' - 1975'	10.0 - 10.2	Brine
1975' - 3798'	8.4 - 8.6	Fresh Water
3798' - 10456.4'	8.6 - 9.7	Cut-Brine
10456.4' - 23478.9'	10.0 - 11.5	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	1007'	Usable Water	Yoso	3873'	
Castile			Delaware (Lamar)		
Salt Top	1292'	None	Bell Canyon		
Marker Bed 126			Cherry Canyon		
Salt Base	1707'	None	Manzanita Marker		
Yates	1885'	Oil/Natural Gas	Basal Brushy Canyon		
Seven Rivers			Bone Spring	6672'	
Queen			1st Bone Spring Sand	7635'	
Capitan	2150'	Usable Water	2nd Bone Spring Sand	8218'	
Grayburg			3rd Bone Spring Sand	9527'	
San Andres			Wolfcamp	9931'	

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

Is casing new? If used, attach certification as required in Onshore Order #1	Y or N
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
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.	Y
Is well located in SOPA but not in R-111-Q?	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-Q 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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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
Mimosa Ridge 6/4 Fed #715H
Sec 06, T21S, R29E
SHL: 1980' FSL & 2260' FWL (Sec 6)
BHL: 1800' FSL & 100' FEL (Sec 4)**

Plan: Design #1

Standard Planning Report

17 February, 2025

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Project	Eddy County, New Mexico NAD 83		
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone	System Datum:	Ground Level

Site	Mimosa Ridge 6/4 Fed #715H				
Site Position: From: Position Uncertainty:	Map 0.0 usft	Northing: Easting: Slot Radius:	548,191.90 usft 636,665.10 usft 13-3/16 "	Latitude: Longitude:	32.5066600 -104.0241012

Well	Sec 06, T21S, R29E				
Well Position	+N/-S 0.0 usft	Northing:	548,191.90 usft	Latitude:	32.5066600
	+E/-W 0.0 usft	Easting:	636,665.10 usft	Longitude:	-104.0241012
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,489.0 usft	Ground Level:	3,461.0 usft
Grid Convergence:	0.17 °				

Wellbore	BHL: 1800' FSL & 100' FEL (Sec 4)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.38	60.28	48,357.40948624

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	90.60					

Plan Survey Tool Program	Date	2/17/2025
Depth From (usft)	Depth To (usft)	Survey (Wellbore)
1	0.0	23,478.9 Design #1 (BHL: 1800' FSL & 100' FEL (Sec 4))

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	0.00
2,175.0	0.00	0.00	2,175.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
2,350.2	3.50	245.71	2,350.1	-2.2	-4.9	2.00	2.00	0.00	245.71	
9,381.1	3.50	245.71	9,367.9	-179.0	-396.6	0.00	0.00	0.00	0.00	
9,556.4	0.00	0.00	9,543.0	-181.2	-401.5	2.00	-2.00	0.00	180.00	KOP: 1800' FSL & 100' FEL (Sec 4)
10,450.9	89.44	89.82	10,116.0	-179.4	165.9	10.00	10.00	0.00	89.82	
23,478.9	89.44	89.82	10,243.0	-138.1	13,193.3	0.00	0.00	0.00	0.00	BHL: 1800' FSL & 100' FEL (Sec 4)

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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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	0.00
SHL: 1980' FSL & 2260' FWL (Sec 6)										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	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	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	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	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	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	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	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	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	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	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	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	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	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	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	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	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	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	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	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	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,175.0	0.00	0.00	2,175.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,200.0	0.50	245.71	2,200.0	0.0	-0.1	-0.1	2.00	2.00	0.00	0.00
2,300.0	2.50	245.71	2,300.0	-1.1	-2.5	-2.5	2.00	2.00	0.00	0.00
2,350.2	3.50	245.71	2,350.1	-2.2	-4.9	-4.9	2.00	2.00	0.00	0.00
2,400.0	3.50	245.71	2,399.8	-3.5	-7.7	-7.6	0.00	0.00	0.00	0.00
2,500.0	3.50	245.71	2,499.6	-6.0	-13.2	-13.2	0.00	0.00	0.00	0.00
2,600.0	3.50	245.71	2,599.4	-8.5	-18.8	-18.7	0.00	0.00	0.00	0.00
2,700.0	3.50	245.71	2,699.2	-11.0	-24.4	-24.3	0.00	0.00	0.00	0.00
2,800.0	3.50	245.71	2,799.0	-13.5	-29.9	-29.8	0.00	0.00	0.00	0.00
2,900.0	3.50	245.71	2,898.9	-16.0	-35.5	-35.3	0.00	0.00	0.00	0.00
3,000.0	3.50	245.71	2,998.7	-18.5	-41.1	-40.9	0.00	0.00	0.00	0.00
3,100.0	3.50	245.71	3,098.5	-21.1	-46.7	-46.4	0.00	0.00	0.00	0.00
3,200.0	3.50	245.71	3,198.3	-23.6	-52.2	-52.0	0.00	0.00	0.00	0.00
3,300.0	3.50	245.71	3,298.1	-26.1	-57.8	-57.5	0.00	0.00	0.00	0.00
3,400.0	3.50	245.71	3,397.9	-28.6	-63.4	-63.1	0.00	0.00	0.00	0.00
3,500.0	3.50	245.71	3,497.7	-31.1	-68.9	-68.6	0.00	0.00	0.00	0.00
3,600.0	3.50	245.71	3,597.6	-33.6	-74.5	-74.2	0.00	0.00	0.00	0.00
3,700.0	3.50	245.71	3,697.4	-36.1	-80.1	-79.7	0.00	0.00	0.00	0.00
3,800.0	3.50	245.71	3,797.2	-38.7	-85.7	-85.2	0.00	0.00	0.00	0.00
3,900.0	3.50	245.71	3,897.0	-41.2	-91.2	-90.8	0.00	0.00	0.00	0.00
4,000.0	3.50	245.71	3,996.8	-43.7	-96.8	-96.3	0.00	0.00	0.00	0.00
4,100.0	3.50	245.71	4,096.6	-46.2	-102.4	-101.9	0.00	0.00	0.00	0.00
4,200.0	3.50	245.71	4,196.4	-48.7	-107.9	-107.4	0.00	0.00	0.00	0.00
4,300.0	3.50	245.71	4,296.2	-51.2	-113.5	-113.0	0.00	0.00	0.00	0.00
4,400.0	3.50	245.71	4,396.1	-53.7	-119.1	-118.5	0.00	0.00	0.00	0.00
4,500.0	3.50	245.71	4,495.9	-56.3	-124.7	-124.1	0.00	0.00	0.00	0.00
4,600.0	3.50	245.71	4,595.7	-58.8	-130.2	-129.6	0.00	0.00	0.00	0.00
4,700.0	3.50	245.71	4,695.5	-61.3	-135.8	-135.2	0.00	0.00	0.00	0.00
4,800.0	3.50	245.71	4,795.3	-63.8	-141.4	-140.7	0.00	0.00	0.00	0.00
4,900.0	3.50	245.71	4,895.1	-66.3	-146.9	-146.2	0.00	0.00	0.00	0.00
5,000.0	3.50	245.71	4,994.9	-68.8	-152.5	-151.8	0.00	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	3.50	245.71	5,094.7	-71.3	-158.1	-157.3	0.00	0.00	0.00
5,200.0	3.50	245.71	5,194.6	-73.9	-163.7	-162.9	0.00	0.00	0.00
5,300.0	3.50	245.71	5,294.4	-76.4	-169.2	-168.4	0.00	0.00	0.00
5,400.0	3.50	245.71	5,394.2	-78.9	-174.8	-174.0	0.00	0.00	0.00
5,500.0	3.50	245.71	5,494.0	-81.4	-180.4	-179.5	0.00	0.00	0.00
5,600.0	3.50	245.71	5,593.8	-83.9	-185.9	-185.1	0.00	0.00	0.00
5,700.0	3.50	245.71	5,693.6	-86.4	-191.5	-190.6	0.00	0.00	0.00
5,800.0	3.50	245.71	5,793.4	-88.9	-197.1	-196.1	0.00	0.00	0.00
5,900.0	3.50	245.71	5,893.3	-91.5	-202.7	-201.7	0.00	0.00	0.00
6,000.0	3.50	245.71	5,993.1	-94.0	-208.2	-207.2	0.00	0.00	0.00
6,100.0	3.50	245.71	6,092.9	-96.5	-213.8	-212.8	0.00	0.00	0.00
6,200.0	3.50	245.71	6,192.7	-99.0	-219.4	-218.3	0.00	0.00	0.00
6,300.0	3.50	245.71	6,292.5	-101.5	-224.9	-223.9	0.00	0.00	0.00
6,400.0	3.50	245.71	6,392.3	-104.0	-230.5	-229.4	0.00	0.00	0.00
6,500.0	3.50	245.71	6,492.1	-106.5	-236.1	-235.0	0.00	0.00	0.00
6,600.0	3.50	245.71	6,591.9	-109.1	-241.7	-240.5	0.00	0.00	0.00
6,700.0	3.50	245.71	6,691.8	-111.6	-247.2	-246.1	0.00	0.00	0.00
6,800.0	3.50	245.71	6,791.6	-114.1	-252.8	-251.6	0.00	0.00	0.00
6,900.0	3.50	245.71	6,891.4	-116.6	-258.4	-257.1	0.00	0.00	0.00
7,000.0	3.50	245.71	6,991.2	-119.1	-263.9	-262.7	0.00	0.00	0.00
7,100.0	3.50	245.71	7,091.0	-121.6	-269.5	-268.2	0.00	0.00	0.00
7,200.0	3.50	245.71	7,190.8	-124.2	-275.1	-273.8	0.00	0.00	0.00
7,300.0	3.50	245.71	7,290.6	-126.7	-280.7	-279.3	0.00	0.00	0.00
7,400.0	3.50	245.71	7,390.4	-129.2	-286.2	-284.9	0.00	0.00	0.00
7,500.0	3.50	245.71	7,490.3	-131.7	-291.8	-290.4	0.00	0.00	0.00
7,600.0	3.50	245.71	7,590.1	-134.2	-297.4	-296.0	0.00	0.00	0.00
7,700.0	3.50	245.71	7,689.9	-136.7	-303.0	-301.5	0.00	0.00	0.00
7,800.0	3.50	245.71	7,789.7	-139.2	-308.5	-307.0	0.00	0.00	0.00
7,900.0	3.50	245.71	7,889.5	-141.8	-314.1	-312.6	0.00	0.00	0.00
8,000.0	3.50	245.71	7,989.3	-144.3	-319.7	-318.1	0.00	0.00	0.00
8,100.0	3.50	245.71	8,089.1	-146.8	-325.2	-323.7	0.00	0.00	0.00
8,200.0	3.50	245.71	8,189.0	-149.3	-330.8	-329.2	0.00	0.00	0.00
8,300.0	3.50	245.71	8,288.8	-151.8	-336.4	-334.8	0.00	0.00	0.00
8,400.0	3.50	245.71	8,388.6	-154.3	-342.0	-340.3	0.00	0.00	0.00
8,500.0	3.50	245.71	8,488.4	-156.8	-347.5	-345.9	0.00	0.00	0.00
8,600.0	3.50	245.71	8,588.2	-159.4	-353.1	-351.4	0.00	0.00	0.00
8,700.0	3.50	245.71	8,688.0	-161.9	-358.7	-357.0	0.00	0.00	0.00
8,800.0	3.50	245.71	8,787.8	-164.4	-364.2	-362.5	0.00	0.00	0.00
8,900.0	3.50	245.71	8,887.6	-166.9	-369.8	-368.0	0.00	0.00	0.00
9,000.0	3.50	245.71	8,987.5	-169.4	-375.4	-373.6	0.00	0.00	0.00
9,100.0	3.50	245.71	9,087.3	-171.9	-381.0	-379.1	0.00	0.00	0.00
9,200.0	3.50	245.71	9,187.1	-174.4	-386.5	-384.7	0.00	0.00	0.00
9,300.0	3.50	245.71	9,286.9	-177.0	-392.1	-390.2	0.00	0.00	0.00
9,381.1	3.50	245.71	9,367.9	-179.0	-396.6	-394.7	0.00	0.00	0.00
9,400.0	3.13	245.71	9,386.7	-179.4	-397.6	-395.7	2.00	-2.00	0.00
9,500.0	1.13	245.71	9,486.6	-181.0	-401.0	-399.1	2.00	-2.00	0.00
9,556.4	0.00	0.00	9,543.0	-181.2	-401.5	-399.6	2.00	-2.00	0.00
KOP: 1800' FSL & 1857' FWL (Sec 6)									
9,600.0	4.36	89.82	9,586.6	-181.2	-399.8	-397.9	10.00	10.00	0.00
9,650.0	9.36	89.82	9,636.2	-181.2	-393.9	-391.9	10.00	10.00	0.00
9,700.0	14.36	89.82	9,685.1	-181.1	-383.6	-381.7	10.00	10.00	0.00
9,750.0	19.36	89.82	9,733.0	-181.1	-369.1	-367.2	10.00	10.00	0.00
9,800.0	24.36	89.82	9,779.4	-181.0	-350.5	-348.6	10.00	10.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,850.0	29.36	89.82	9,824.0	-181.0	-327.9	-326.0	10.00	10.00	0.00
9,900.0	34.36	89.82	9,866.4	-180.9	-301.5	-299.6	10.00	10.00	0.00
9,950.0	39.36	89.82	9,906.4	-180.8	-271.5	-269.6	10.00	10.00	0.00
10,000.0	44.36	89.82	9,943.6	-180.7	-238.2	-236.3	10.00	10.00	0.00
10,050.0	49.36	89.82	9,977.8	-180.6	-201.7	-199.8	10.00	10.00	0.00
10,100.0	54.36	89.82	10,008.7	-180.4	-162.4	-160.5	10.00	10.00	0.00
10,150.0	59.36	89.82	10,036.0	-180.3	-120.5	-118.7	10.00	10.00	0.00
10,200.0	64.36	89.82	10,059.6	-180.2	-76.5	-74.6	10.00	10.00	0.00
10,250.0	69.35	89.82	10,079.2	-180.0	-30.5	-28.6	10.00	10.00	0.00
10,300.0	74.35	89.82	10,094.8	-179.9	17.0	18.9	10.00	10.00	0.00
10,350.0	79.35	89.82	10,106.2	-179.7	65.7	67.5	10.00	10.00	0.00
10,400.0	84.35	89.82	10,113.2	-179.6	115.1	117.0	10.00	10.00	0.00
10,450.9	89.44	89.82	10,116.0	-179.4	165.9	167.8	10.00	10.00	0.00
10,456.4	89.44	89.82	10,116.1	-179.4	171.4	173.3	0.00	0.00	0.00
FTP/LP: 1800' FSL & 2540' FEL (Sec 6)									
10,500.0	89.44	89.82	10,116.5	-179.2	215.0	216.9	0.00	0.00	0.00
10,600.0	89.44	89.82	10,117.5	-178.9	315.0	316.9	0.00	0.00	0.00
10,700.0	89.44	89.82	10,118.4	-178.6	415.0	416.9	0.00	0.00	0.00
10,800.0	89.44	89.82	10,119.4	-178.3	515.0	516.9	0.00	0.00	0.00
10,900.0	89.44	89.82	10,120.4	-178.0	615.0	616.9	0.00	0.00	0.00
11,000.0	89.44	89.82	10,121.4	-177.7	715.0	716.8	0.00	0.00	0.00
11,100.0	89.44	89.82	10,122.3	-177.3	815.0	816.8	0.00	0.00	0.00
11,200.0	89.44	89.82	10,123.3	-177.0	915.0	916.8	0.00	0.00	0.00
11,300.0	89.44	89.82	10,124.3	-176.7	1,015.0	1,016.8	0.00	0.00	0.00
11,400.0	89.44	89.82	10,125.3	-176.4	1,115.0	1,116.8	0.00	0.00	0.00
11,500.0	89.44	89.82	10,126.2	-176.1	1,215.0	1,216.8	0.00	0.00	0.00
11,600.0	89.44	89.82	10,127.2	-175.8	1,315.0	1,316.8	0.00	0.00	0.00
11,700.0	89.44	89.82	10,128.2	-175.4	1,415.0	1,416.7	0.00	0.00	0.00
11,800.0	89.44	89.82	10,129.2	-175.1	1,515.0	1,516.7	0.00	0.00	0.00
11,900.0	89.44	89.82	10,130.1	-174.8	1,615.0	1,616.7	0.00	0.00	0.00
12,000.0	89.44	89.82	10,131.1	-174.5	1,715.0	1,716.7	0.00	0.00	0.00
12,100.0	89.44	89.82	10,132.1	-174.2	1,815.0	1,816.7	0.00	0.00	0.00
12,200.0	89.44	89.82	10,133.1	-173.9	1,915.0	1,916.7	0.00	0.00	0.00
12,300.0	89.44	89.82	10,134.0	-173.5	2,015.0	2,016.7	0.00	0.00	0.00
12,400.0	89.44	89.82	10,135.0	-173.2	2,114.9	2,116.6	0.00	0.00	0.00
12,500.0	89.44	89.82	10,136.0	-172.9	2,214.9	2,216.6	0.00	0.00	0.00
12,600.0	89.44	89.82	10,136.9	-172.6	2,314.9	2,316.6	0.00	0.00	0.00
12,700.0	89.44	89.82	10,137.9	-172.3	2,414.9	2,416.6	0.00	0.00	0.00
12,800.0	89.44	89.82	10,138.9	-172.0	2,514.9	2,516.6	0.00	0.00	0.00
12,900.0	89.44	89.82	10,139.9	-171.6	2,614.9	2,616.6	0.00	0.00	0.00
13,000.0	89.44	89.82	10,140.8	-171.3	2,714.9	2,716.6	0.00	0.00	0.00
13,100.0	89.44	89.82	10,141.8	-171.0	2,814.9	2,816.5	0.00	0.00	0.00
13,200.0	89.44	89.82	10,142.8	-170.7	2,914.9	2,916.5	0.00	0.00	0.00
13,300.0	89.44	89.82	10,143.8	-170.4	3,014.9	3,016.5	0.00	0.00	0.00
13,400.0	89.44	89.82	10,144.7	-170.1	3,114.9	3,116.5	0.00	0.00	0.00
13,500.0	89.44	89.82	10,145.7	-169.7	3,214.9	3,216.5	0.00	0.00	0.00
13,600.0	89.44	89.82	10,146.7	-169.4	3,314.9	3,316.5	0.00	0.00	0.00
13,700.0	89.44	89.82	10,147.7	-169.1	3,414.9	3,416.5	0.00	0.00	0.00
13,800.0	89.44	89.82	10,148.6	-168.8	3,514.9	3,516.4	0.00	0.00	0.00
13,900.0	89.44	89.82	10,149.6	-168.5	3,614.9	3,616.4	0.00	0.00	0.00
14,000.0	89.44	89.82	10,150.6	-168.1	3,714.9	3,716.4	0.00	0.00	0.00
14,100.0	89.44	89.82	10,151.6	-167.8	3,814.9	3,816.4	0.00	0.00	0.00
14,200.0	89.44	89.82	10,152.5	-167.5	3,914.9	3,916.4	0.00	0.00	0.00
14,300.0	89.44	89.82	10,153.5	-167.2	4,014.8	4,016.4	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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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)
14,400.0	89.44	89.82	10,154.5	-166.9	4,114.8	4,116.4	0.00	0.00	0.00
14,500.0	89.44	89.82	10,155.5	-166.6	4,214.8	4,216.3	0.00	0.00	0.00
14,600.0	89.44	89.82	10,156.4	-166.2	4,314.8	4,316.3	0.00	0.00	0.00
14,700.0	89.44	89.82	10,157.4	-165.9	4,414.8	4,416.3	0.00	0.00	0.00
14,800.0	89.44	89.82	10,158.4	-165.6	4,514.8	4,516.3	0.00	0.00	0.00
14,900.0	89.44	89.82	10,159.4	-165.3	4,614.8	4,616.3	0.00	0.00	0.00
15,000.0	89.44	89.82	10,160.3	-165.0	4,714.8	4,716.3	0.00	0.00	0.00
15,100.0	89.44	89.82	10,161.3	-164.7	4,814.8	4,816.3	0.00	0.00	0.00
15,200.0	89.44	89.82	10,162.3	-164.3	4,914.8	4,916.3	0.00	0.00	0.00
15,300.0	89.44	89.82	10,163.3	-164.0	5,014.8	5,016.2	0.00	0.00	0.00
15,400.0	89.44	89.82	10,164.2	-163.7	5,114.8	5,116.2	0.00	0.00	0.00
15,500.0	89.44	89.82	10,165.2	-163.4	5,214.8	5,216.2	0.00	0.00	0.00
15,600.0	89.44	89.82	10,166.2	-163.1	5,314.8	5,316.2	0.00	0.00	0.00
15,700.0	89.44	89.82	10,167.2	-162.8	5,414.8	5,416.2	0.00	0.00	0.00
15,800.0	89.44	89.82	10,168.1	-162.4	5,514.8	5,516.2	0.00	0.00	0.00
15,900.0	89.44	89.82	10,169.1	-162.1	5,614.8	5,616.2	0.00	0.00	0.00
16,000.0	89.44	89.82	10,170.1	-161.8	5,714.8	5,716.1	0.00	0.00	0.00
16,100.0	89.44	89.82	10,171.1	-161.5	5,814.8	5,816.1	0.00	0.00	0.00
16,200.0	89.44	89.82	10,172.0	-161.2	5,914.7	5,916.1	0.00	0.00	0.00
16,300.0	89.44	89.82	10,173.0	-160.9	6,014.7	6,016.1	0.00	0.00	0.00
16,400.0	89.44	89.82	10,174.0	-160.5	6,114.7	6,116.1	0.00	0.00	0.00
16,500.0	89.44	89.82	10,175.0	-160.2	6,214.7	6,216.1	0.00	0.00	0.00
16,600.0	89.44	89.82	10,175.9	-159.9	6,314.7	6,316.1	0.00	0.00	0.00
16,700.0	89.44	89.82	10,176.9	-159.6	6,414.7	6,416.0	0.00	0.00	0.00
16,800.0	89.44	89.82	10,177.9	-159.3	6,514.7	6,516.0	0.00	0.00	0.00
16,900.0	89.44	89.82	10,178.9	-159.0	6,614.7	6,616.0	0.00	0.00	0.00
17,000.0	89.44	89.82	10,179.8	-158.6	6,714.7	6,716.0	0.00	0.00	0.00
17,100.0	89.44	89.82	10,180.8	-158.3	6,814.7	6,816.0	0.00	0.00	0.00
17,200.0	89.44	89.82	10,181.8	-158.0	6,914.7	6,916.0	0.00	0.00	0.00
17,300.0	89.44	89.82	10,182.8	-157.7	7,014.7	7,016.0	0.00	0.00	0.00
17,400.0	89.44	89.82	10,183.7	-157.4	7,114.7	7,115.9	0.00	0.00	0.00
17,500.0	89.44	89.82	10,184.7	-157.1	7,214.7	7,215.9	0.00	0.00	0.00
17,600.0	89.44	89.82	10,185.7	-156.7	7,314.7	7,315.9	0.00	0.00	0.00
17,700.0	89.44	89.82	10,186.7	-156.4	7,414.7	7,415.9	0.00	0.00	0.00
17,800.0	89.44	89.82	10,187.6	-156.1	7,514.7	7,515.9	0.00	0.00	0.00
17,900.0	89.44	89.82	10,188.6	-155.8	7,614.7	7,615.9	0.00	0.00	0.00
18,000.0	89.44	89.82	10,189.6	-155.5	7,714.7	7,715.9	0.00	0.00	0.00
18,100.0	89.44	89.82	10,190.6	-155.2	7,814.6	7,815.8	0.00	0.00	0.00
18,200.0	89.44	89.82	10,191.5	-154.8	7,914.6	7,915.8	0.00	0.00	0.00
18,300.0	89.44	89.82	10,192.5	-154.5	8,014.6	8,015.8	0.00	0.00	0.00
18,400.0	89.44	89.82	10,193.5	-154.2	8,114.6	8,115.8	0.00	0.00	0.00
18,500.0	89.44	89.82	10,194.5	-153.9	8,214.6	8,215.8	0.00	0.00	0.00
18,600.0	89.44	89.82	10,195.4	-153.6	8,314.6	8,315.8	0.00	0.00	0.00
18,700.0	89.44	89.82	10,196.4	-153.3	8,414.6	8,415.8	0.00	0.00	0.00
18,800.0	89.44	89.82	10,197.4	-152.9	8,514.6	8,515.7	0.00	0.00	0.00
18,900.0	89.44	89.82	10,198.4	-152.6	8,614.6	8,615.7	0.00	0.00	0.00
19,000.0	89.44	89.82	10,199.3	-152.3	8,714.6	8,715.7	0.00	0.00	0.00
19,100.0	89.44	89.82	10,200.3	-152.0	8,814.6	8,815.7	0.00	0.00	0.00
19,200.0	89.44	89.82	10,201.3	-151.7	8,914.6	8,915.7	0.00	0.00	0.00
19,300.0	89.44	89.82	10,202.3	-151.3	9,014.6	9,015.7	0.00	0.00	0.00
19,400.0	89.44	89.82	10,203.2	-151.0	9,114.6	9,115.7	0.00	0.00	0.00
19,500.0	89.44	89.82	10,204.2	-150.7	9,214.6	9,215.6	0.00	0.00	0.00
19,600.0	89.44	89.82	10,205.2	-150.4	9,314.6	9,315.6	0.00	0.00	0.00
19,700.0	89.44	89.82	10,206.2	-150.1	9,414.6	9,415.6	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Planned Survey

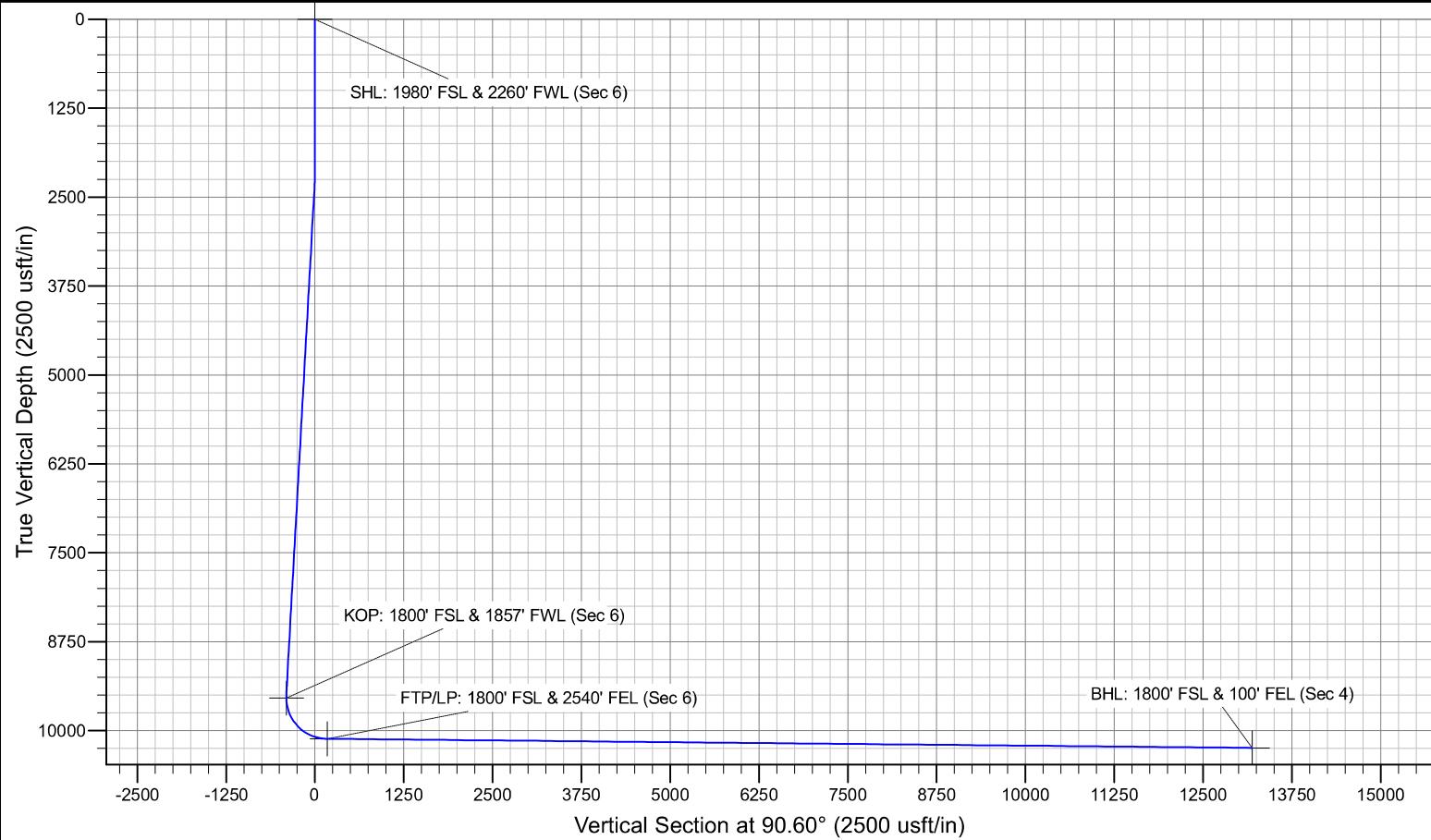
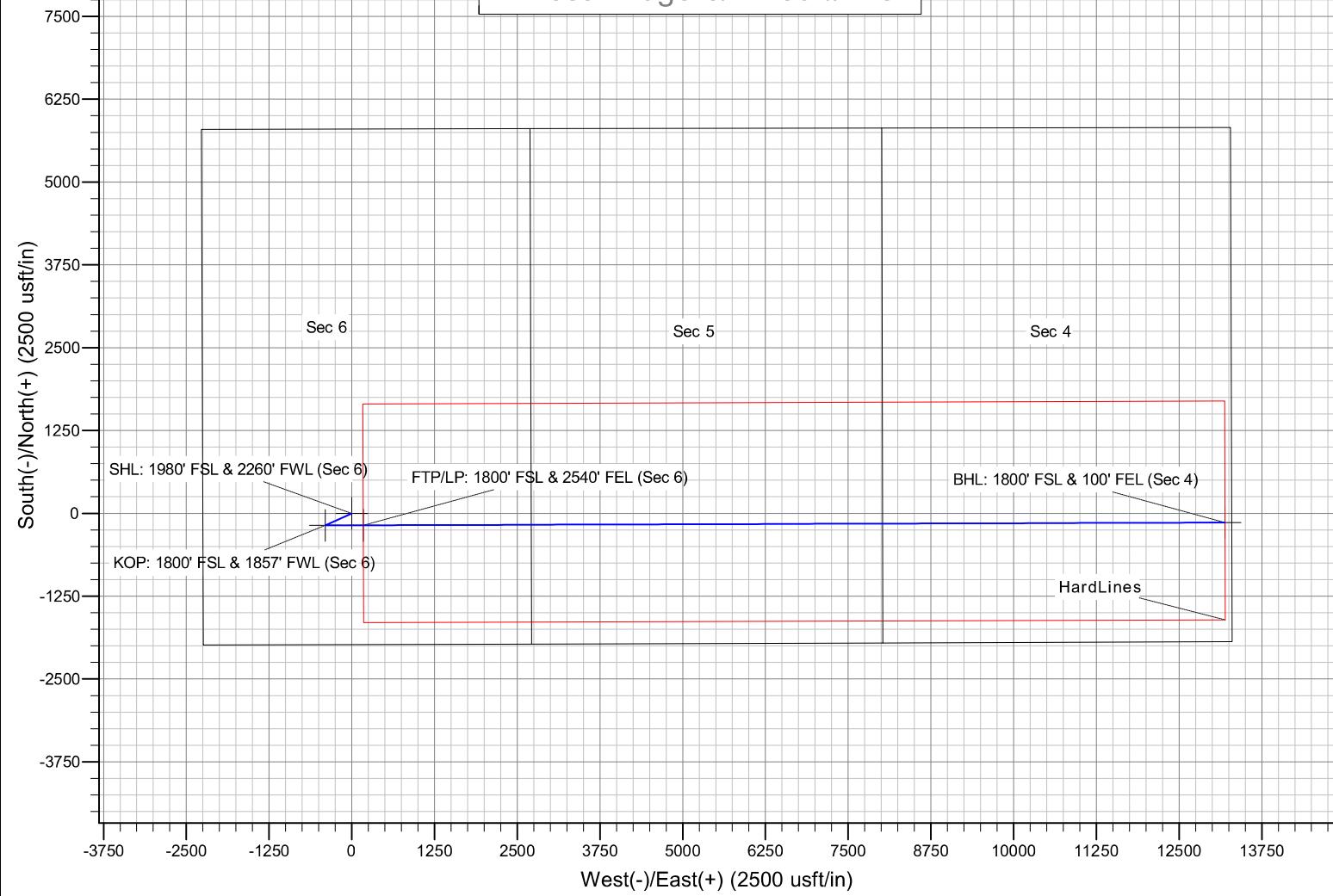
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,800.0	89.44	89.82	10,207.1	-149.8	9,514.6	9,515.6	0.00	0.00	0.00
19,900.0	89.44	89.82	10,208.1	-149.4	9,614.6	9,615.6	0.00	0.00	0.00
20,000.0	89.44	89.82	10,209.1	-149.1	9,714.5	9,715.6	0.00	0.00	0.00
20,100.0	89.44	89.82	10,210.1	-148.8	9,814.5	9,815.6	0.00	0.00	0.00
20,200.0	89.44	89.82	10,211.0	-148.5	9,914.5	9,915.5	0.00	0.00	0.00
20,300.0	89.44	89.82	10,212.0	-148.2	10,014.5	10,015.5	0.00	0.00	0.00
20,400.0	89.44	89.82	10,213.0	-147.9	10,114.5	10,115.5	0.00	0.00	0.00
20,500.0	89.44	89.82	10,214.0	-147.5	10,214.5	10,215.5	0.00	0.00	0.00
20,600.0	89.44	89.82	10,214.9	-147.2	10,314.5	10,315.5	0.00	0.00	0.00
20,700.0	89.44	89.82	10,215.9	-146.9	10,414.5	10,415.5	0.00	0.00	0.00
20,800.0	89.44	89.82	10,216.9	-146.6	10,514.5	10,515.5	0.00	0.00	0.00
20,900.0	89.44	89.82	10,217.9	-146.3	10,614.5	10,615.4	0.00	0.00	0.00
21,000.0	89.44	89.82	10,218.8	-146.0	10,714.5	10,715.4	0.00	0.00	0.00
21,100.0	89.44	89.82	10,219.8	-145.6	10,814.5	10,815.4	0.00	0.00	0.00
21,200.0	89.44	89.82	10,220.8	-145.3	10,914.5	10,915.4	0.00	0.00	0.00
21,300.0	89.44	89.82	10,221.8	-145.0	11,014.5	11,015.4	0.00	0.00	0.00
21,400.0	89.44	89.82	10,222.7	-144.7	11,114.5	11,115.4	0.00	0.00	0.00
21,500.0	89.44	89.82	10,223.7	-144.4	11,214.5	11,215.4	0.00	0.00	0.00
21,600.0	89.44	89.82	10,224.7	-144.1	11,314.5	11,315.4	0.00	0.00	0.00
21,700.0	89.44	89.82	10,225.7	-143.7	11,414.5	11,415.3	0.00	0.00	0.00
21,800.0	89.44	89.82	10,226.6	-143.4	11,514.5	11,515.3	0.00	0.00	0.00
21,900.0	89.44	89.82	10,227.6	-143.1	11,614.4	11,615.3	0.00	0.00	0.00
22,000.0	89.44	89.82	10,228.6	-142.8	11,714.4	11,715.3	0.00	0.00	0.00
22,100.0	89.44	89.82	10,229.6	-142.5	11,814.4	11,815.3	0.00	0.00	0.00
22,200.0	89.44	89.82	10,230.5	-142.2	11,914.4	11,915.3	0.00	0.00	0.00
22,300.0	89.44	89.82	10,231.5	-141.8	12,014.4	12,015.3	0.00	0.00	0.00
22,400.0	89.44	89.82	10,232.5	-141.5	12,114.4	12,115.2	0.00	0.00	0.00
22,500.0	89.44	89.82	10,233.5	-141.2	12,214.4	12,215.2	0.00	0.00	0.00
22,600.0	89.44	89.82	10,234.4	-140.9	12,314.4	12,315.2	0.00	0.00	0.00
22,700.0	89.44	89.82	10,235.4	-140.6	12,414.4	12,415.2	0.00	0.00	0.00
22,800.0	89.44	89.82	10,236.4	-140.3	12,514.4	12,515.2	0.00	0.00	0.00
22,900.0	89.44	89.82	10,237.4	-139.9	12,614.4	12,615.2	0.00	0.00	0.00
23,000.0	89.44	89.82	10,238.3	-139.6	12,714.4	12,715.2	0.00	0.00	0.00
23,100.0	89.44	89.82	10,239.3	-139.3	12,814.4	12,815.1	0.00	0.00	0.00
23,200.0	89.44	89.82	10,240.3	-139.0	12,914.4	12,915.1	0.00	0.00	0.00
23,300.0	89.44	89.82	10,241.3	-138.7	13,014.4	13,015.1	0.00	0.00	0.00
23,400.0	89.44	89.82	10,242.2	-138.4	13,114.4	13,115.1	0.00	0.00	0.00
23,478.9	89.44	89.82	10,243.0	-138.1	13,193.3	13,194.0	0.00	0.00	0.00

BHL: 1800' FSL & 100' FEL (Sec 4)

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Mimosa Ridge 6/4 Fed #715H Sec 06, T21S, R29E BHL: 1800' FSL & 100' FEL (Sec 4) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Mimosa Ridge 6/4 Fed #715H WELL @ 3489.0usft (Original Well Elev) WELL @ 3489.0usft (Original Well Elev) Grid Minimum Curvature
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Design Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 1980' FSL & 226	0.00	0.00	0.0	0.0	0.0	0.0	548,191.90	636,665.10	32.5066600	-104.0241012
- plan hits target center										
- Point										
KOP: 1800' FSL & 18!	0.00	0.00	9,543.0	-181.2	-401.5	548,010.70	636,263.60	32.5061652	-104.0254053	
- plan hits target center										
- Point										
FTP/LP: 1800' FSL &	0.00	0.00	10,116.1	-179.4	171.4	548,012.52	636,836.50	32.5061656	-104.0235469	
- plan hits target center										
- Point										
BHL: 1800' FSL & 100	0.00	0.00	10,243.0	-138.1	13,193.3	548,053.80	649,858.40	32.5061680	-103.9813057	
- plan hits target center										
- Point										



ECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBURNE OIL COMPANY
WELL NAME & NO.:	MIMOSA RIDGE 6/4 FED COM 715H
APD ID:	10400104351
LOCATION:	Section 6, T21S, R29E. NMP.
COUNTY:	Eddy County, New Mexico <input type="button" value="▼"/>

COA

H₂S	<input type="radio"/> No <input checked="" type="radio"/> Yes			
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus
				<input type="checkbox"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input checked="" type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input type="checkbox"/> EchoMeter	<input checked="" type="checkbox"/> DV Tool
Special Req	<input checked="" type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input checked="" type="radio"/> Waste Min. Plan	<input type="radio"/> APD Submitted prior to 06/10/2024	
Additional Language	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input checked="" type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated **at spud**. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design

Note: The surface casing set depth was adjusted based on recommendation from the BLM geologist. *"The operator proposes to set surface casing at 725 feet which which will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 975 feet. If salt is encountered, set casing at least 25 feet above the salt."*

1. The **18-5/8-inch** surface casing shall be set at approximately **975 ft.** (a minimum of 70 ft. into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi 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 **13-3/8** inch 1st intermediate casing shall be set in a competent bed at approximately **1,975 ft**. The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:

- **Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef**.

Note: The 2nd intermediate casing set depth was adjusted based on recommendation from the BLM geologist. *"The operator proposes to set second intermediate casing at 3798 feet which will be in the Bell Canyon FM. Instead, set second intermediate casing at a depth of approximately 3164 feet to avoid possible lost circulation."*

3. The **9-5/8** inch 2nd intermediate casing shall be set in a competent bed at approximately **3,164 ft**. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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 and Capitan Reef**.

Option 2 (Two-Stage): The operator has proposed utilize a DV tool. The selected depth is below the Salado and is an acceptable set point. Operator may adjust depth of DV tool if it remains below the Salado and cement volumes are adjusted accordingly. 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 **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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 and Capitan Reef**.

- ❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.

Note: Excess cement for the 2nd stage is below %25. More cement might be needed.

4. Operator has proposed to set **7-5/8 inch** production casing at approximately **9,556 ft.** (9,543 ft. TVD). The minimum required fill of cement behind the **7-5/8 inch** production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst and Capitan Reef**.
5. The minimum required fill of cement behind the **5-1/2 inch** production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Alternate Casing Design

Note: The surface casing set depth was adjusted based on recommendation from the BLM geologist. *“The operator proposes to set surface casing at 725 feet which which will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 975 feet. If salt is encountered, set casing at least 25 feet above the salt.”*

1. The **18-5/8-inch** surface casing shall be set at approximately **975 ft.** (a minimum of 70 ft. into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - 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.
 - Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - 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.
 - If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **13-3/8** inch 1st intermediate casing shall be set in a competent bed at approximately **1,975 ft.** The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:
 - Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef**.

Note: The 2nd intermediate casing set depth was adjusted based on recommendation from the BLM geologist. “*The operator proposes to set second intermediate casing at 3798 feet which will be in the Bell Canyon FM. Instead, set second intermediate casing at a depth of approximately 3164 feet to avoid possible lost circulation.*”

3. The 9-5/8 inch 2nd intermediate casing shall be set in a competent bed at approximately **3,164 ft.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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 and Capitan Reef**.

Option 2 (Two-Stage): The operator has proposed utilize a DV tool. The selected depth is below the Salado and is an acceptable set point. Operator may adjust depth of DV tool if it remains below the Salado and cement volumes are adjusted accordingly. 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 **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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 and Capitan Reef**.

❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.

Note: Excess cement for the 2nd stage is below %25. More cement might be needed.

4. Operator has proposed to set **7-5/8 inch** production casing at approximately **10,456 ft.** (10,116 ft. TVD). The minimum required fill of cement behind the **7-5/8 inch** production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst and Capitan Reef**.

5. The minimum required fill of cement behind the **5-1/2 inch** production liner is:

- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the

casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Eddy County: 575-361-2822**.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. 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. Before drilling the surface casing shoe out, the BOP/BOPE shall be pressure-tested in accordance with **title 43 CFR 3172**.
 - 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 43 CFR 3172 must be followed.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822.

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** 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 doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity 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-Q 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 **43 CFR 3172**.
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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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 cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- ii. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 **43 CFR 3172**.

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.

SA 11/06/2025

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: MIMOSA RIDGE 6/4 FED COM

Well Number: 715H

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

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?

Cuttings area liner

Cuttings area liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** MIMOSA RIDGE 6/4 FED COM**Well Number:** 715H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N**Ancillary Facilities****Comments:**

Section 9 - Well Site

Well Site Layout Diagram:

MIMOSA RIDGE_6_4_FED_715H_WellSiteLayout_20250409080721.pdf

MIMOSA RIDGE_6_4_FED_715H_WellSiteLayout_20250926082252.pdf

Comments: NONE

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** MIMOSA RIDGE 6/4 FED COM 714 715
716**Multiple Well Pad Number:** 3**Recontouring**

MIMOSA RIDGE_6_4_FED_715H_InterimReclamationMap_20250409080731.pdf

MIMOSA RIDGE_6_4_FED_715H_InterimReclamationMap_20250926082304.pdf

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

Well pad proposed disturbance (acres): 4.5	Well pad interim reclamation (acres): 1.89	Well pad long term disturbance (acres): 2.61
Road proposed disturbance (acres): 0.07	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0.8	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 7.346	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 12.716000000000001	Total interim reclamation: 1.89	Total long term disturbance: 2.61

Disturbance Comments: The length of the pipeline is unknown. A sundry notice will be filed for approval of said pipeline.**Reconstruction method:** Remove caliche, redistribute topsoil over reclaimed area & reseed.**Topsoil redistribution:** Use backhoe/loader to spread material.**Soil treatment:** None**Existing Vegetation:** 20120718: pad 24 various brush & grasses.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 524529

ACKNOWLEDGMENTS

Operator:	OGRID:
MEWBURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	14744
	Action Number:
	524529
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 524529

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 524529
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/7/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/7/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/16/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/16/2025
ward.rikala	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.	12/16/2025
ward.rikala	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.	12/16/2025
ward.rikala	This well is within the Capitan Reef. The first intermediate casing string shall be set and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef.	12/16/2025