

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 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone | | 5. Lease Serial No. NMNM01165 |
| | | 6. If Indian, Allottee or Tribe Name |
| | | 7. If Unit or CA Agreement, Name and No. |
| | | 8. Lease Name and Well No. JERICHO 7/12 FED COM |
| | | 521H |
| 2. Name of Operator MEWBOURNE OIL COMPANY | | 9. API Well No. 30-015-57699 |
| 3a. Address P O BOX 5270, HOBBS, NM 88241 | 3b. Phone No. (include area code) (575) 393-5905 | 10. Field and Pool, or Exploratory WINCHESTER/BONE SPRING |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW / 2570 FNL / 320 FWL / LAT 32.5882251 / LONG -104.1047518 At proposed prod. zone NWNE / 500 FNL / 2566 FEL / LAT 32.5942055 / LONG -104.1302113 | | 11. Sec., T. R. M. or Blk. and Survey or Area SEC 8/T20S/R29E/NMP |
| 14. Distance in miles and direction from nearest town or post office* 10 miles | | 12. County or Parish EDDY |
| | | 13. State NM |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 210 feet | 16. No of acres in lease 960.0 | 17. Spacing Unit dedicated to this well FED: NMB106714150 |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet | 19. Proposed Depth 7666 feet / 15999 feet | 20. BLM/BIA Bond No. in file FED: NMB106714150 |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3274 feet | 22. Approximate date work will start* 08/30/2025 | 23. Estimated duration 60 days |
| 24. Attachments | | |

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

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 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). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 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 07/01/2025 |
| Title Regulatory | | |
| Approved by (Signature) (Electronic Submission) | Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 | Date 12/08/2025 |
| Title Assistant Field Manager Lands & Minerals | | |
| Office Carlsbad Field Office | | |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

| | | |
|---|--|---|
| C-102 Submit Electronically Via OCD Permitting | State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION | Revised July 9, 2024 |
| | | Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled |

WELL LOCATION INFORMATION

| | | |
|--|---|--|
| API Number 30-015-57699 | Pool Code 65010 | Pool Name WINCHESTER; BONE SPRING |
| Property Code 338291 | Property Name JERICO 7/12 FED COM | Well Number 521H |
| OGRID No. 14744 | Operator Name MEWBOURNE OIL COMPANY | Ground Level Elevation 3274' |
| 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 | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----------|----------|------------|------------|-----|-----------------|----------------|---------------------|----------------------|-------------|
| E | 8 | 20S | 29E | | 2570 FNL | 320 FWL | 32.5882251°N | 104.1047518°W | EDDY |

Bottom Hole Location

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----------|-----------|------------|------------|-----|----------------|-----------------|---------------------|----------------------|-------------|
| B | 12 | 20S | 28E | | 500 FNL | 2566 FEL | 32.5942055°N | 104.1302113°W | EDDY |

| | | | | |
|-------------------------------|--|--|---|--------------------------------|
| Dedicated Acres 960 | Infill or Defining Well INFILL | Defining Well API JERICO 7/12 FED COM #527H | Overlapping Spacing Unit (Y/N) Y | Consolidation Code C |
| Order Numbers. N/A | | | Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |

Kick Off Point (KOP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----------|----------|------------|------------|-----|----------------|----------------|---------------------|----------------------|-------------|
| D | 8 | 20S | 29E | | 500 FNL | 473 FWL | 32.5939123°N | 104.1042561°W | EDDY |

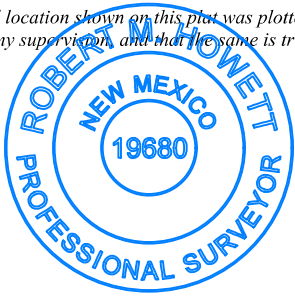
First Take Point (FTP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----------|----------|------------|------------|-----|----------------|----------------|---------------------|----------------------|-------------|
| A | 7 | 20S | 29E | | 500 FNL | 100 FEL | 32.5939169°N | 104.1061162°W | EDDY |

Last Take Point (LTP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----------|-----------|------------|------------|-----|----------------|-----------------|---------------------|----------------------|-------------|
| B | 12 | 20S | 28E | | 500 FNL | 2566 FEL | 32.5942055°N | 104.1302113°W | EDDY |

| | | |
|---|--|---|
| Unitized Area or Area of Uniform Interest N/A | Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical | Ground Floor Elevation: 3274' |
|---|--|---|

| | |
|---|---|
| <p>OPERATOR CERTIFICATIONS</p> <p><i>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.</i></p> <p><i>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.</i></p> <p><i>Brett Miller</i> 06/19/2025</p> | <p>SURVEYOR CERTIFICATIONS</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: center;">  </div> |
| Signature Brett Miller | Date 06/19/2025 |
| Printed Name brett.miller@mewbourne.com | Email Address brett.miller@mewbourne.com |
| Signature and Seal of Professional Surveyor <i>Robert M. Howett</i> | Date of Survey 10/07/2024 |
| Certificate Number 19680 | Date of Survey 10/07/2024 |

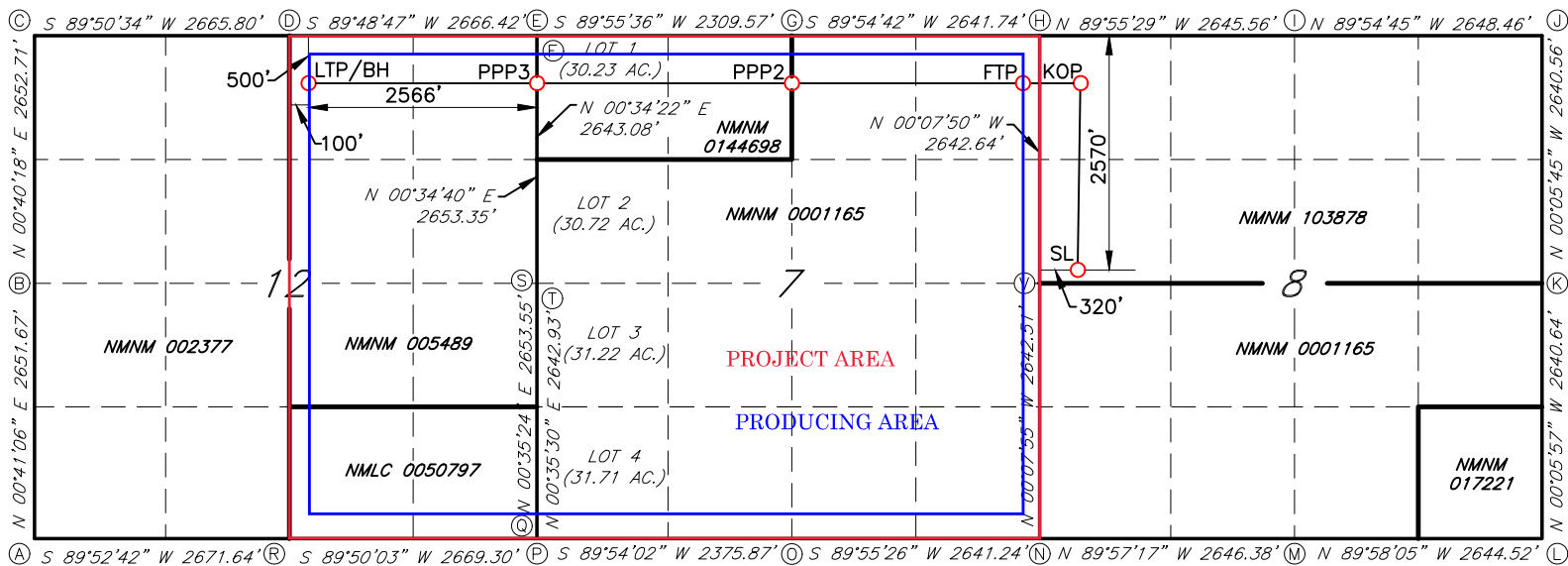
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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 a 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.

JERICO 7/12 FED COM #521H



GEODETTIC DATA
 NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
 2570' FNL & 320' FWL (SEC.8)
 N: 577802.7 - E: 611739.0

LAT: 32.5882251° N
 LONG: 104.1047518° W

KICK OFF POINT (KOP)
 500' FNL & 473' FWL (SEC.8)
 N: 579872.0 - E: 611887.2

LAT: 32.5939123° N
 LONG: 104.1042561° W

FIRST TAKE POINT (FTP)
 500' FNL & 100' FEL (SEC.7)
 N: 579872.5 - E: 611314.4

LAT: 32.5939169° N
 LONG: 104.1061162° W

PROPOSED PENETRATION POINT 2 (PPP2)
 465' FNL & 2315' FWL (SEC.7)
 N: 579903.3 - E: 608773.2

LAT: 32.5940163° N
 LONG: 104.1143672° W

PROPOSED PENETRATION POINT 3 (PPP3)
 539' FNL & 0' FEL (SEC.12)
 N: 579931.3 - E: 606458.8

LAT: 32.5941063° N
 LONG: 104.1218820° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
 500' FNL & 2566' FEL (SEC.12)
 N: 579962.4 - E: 603893.5

LAT: 32.5942055° N
 LONG: 104.1302113° W

CORNER DATA
 NAD 83 GRID - NM EAST

- | | |
|--|--|
| A: FOUND BRASS CAP "1942" N: 575151.9 - E: 601070.9 | L: FOUND BRASS CAP "1916" N: 575085.0 - E: 616714.9 |
| B: FOUND BRASS CAP "1942" N: 577802.7 - E: 601102.6 | M: FOUND BRASS CAP "1916" N: 575086.5 - E: 614071.1 |
| C: FOUND BRASS CAP "1942" N: 580454.6 - E: 601133.7 | N: FOUND BRASS CAP "1916" N: 575088.6 - E: 611425.3 |
| D: FOUND BRASS CAP "1942" N: 580461.9 - E: 603798.9 | O: FOUND BRASS CAP "1916" N: 575085.1 - E: 608784.7 |
| E: FOUND BRASS CAP "1916" N: 580470.7 - E: 606464.6 | P: FOUND BRASS CAP "1916" N: 575081.0 - E: 606409.4 |
| F: FOUND BRASS CAP "1916" N: 580365.5 - E: 606463.1 | Q: FOUND BRASS CAP "1916" N: 575165.3 - E: 606410.6 |
| G: FOUND BRASS CAP "1916" N: 580368.4 - E: 608772.1 | R: FOUND BRASS CAP "1942" N: 575157.6 - E: 603741.9 |
| H: FOUND BRASS CAP "1916" N: 580372.5 - E: 611413.2 | S: FOUND BRASS CAP "1916" N: 577818.1 - E: 606437.9 |
| I: FOUND BRASS CAP "1916" N: 580369.0 - E: 614058.1 | T: FOUND BRASS CAP "1942" N: 577723.1 - E: 606436.7 |
| J: FOUND BRASS CAP "1916" N: 580365.0 - E: 616706.0 | U: FOUND BRASS CAP "1916" N: 577730.5 - E: 611419.2 |
| K: FOUND BRASS CAP "1916" N: 577725.0 - E: 616710.4 | |

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:** 6/24/25

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 |
|---------------------------|-----|-------------|----------------------|-----------------------|-------------------------|----------------------------------|
| JERICHO 7/12 FED COM 521H | | E 8 20S 29E | 2570' FNL x 320' FWL | 1500 | 4500 | 2500 |
| | | | | Y-400 Y2-300 Y3-200 | Y1-3000 Y2-2200 Y3-1500 | Y1-1000 Y2-750 Y3-500 |

IV. Central Delivery Point Name: JERICHO 7/12 FED COM 521H [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 |
|---------------------------|-----|-----------|-----------------|------------------------------|------------------------|-----------------------|
| JERICHO 7/12 FED COM 521H | | 7/23/25 | 8/23/25 | 9/23/25 | 10/8/25 | 10/13/25 |
| | | | | | | |

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: | <i>Bradley Bishop</i> |
| Printed Name: | BRADLEY BISHOP |
| Title: | REGULATORY MANAGER |
| E-mail Address: | BBISHOP@MEWBOURNE.COM |
| Date: | 6/24/25 |
| Phone: | 575-393-5905 |
| OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) | |
| Approved By: | |
| Title: | |
| Approval Date: | |
| Conditions of Approval: | |

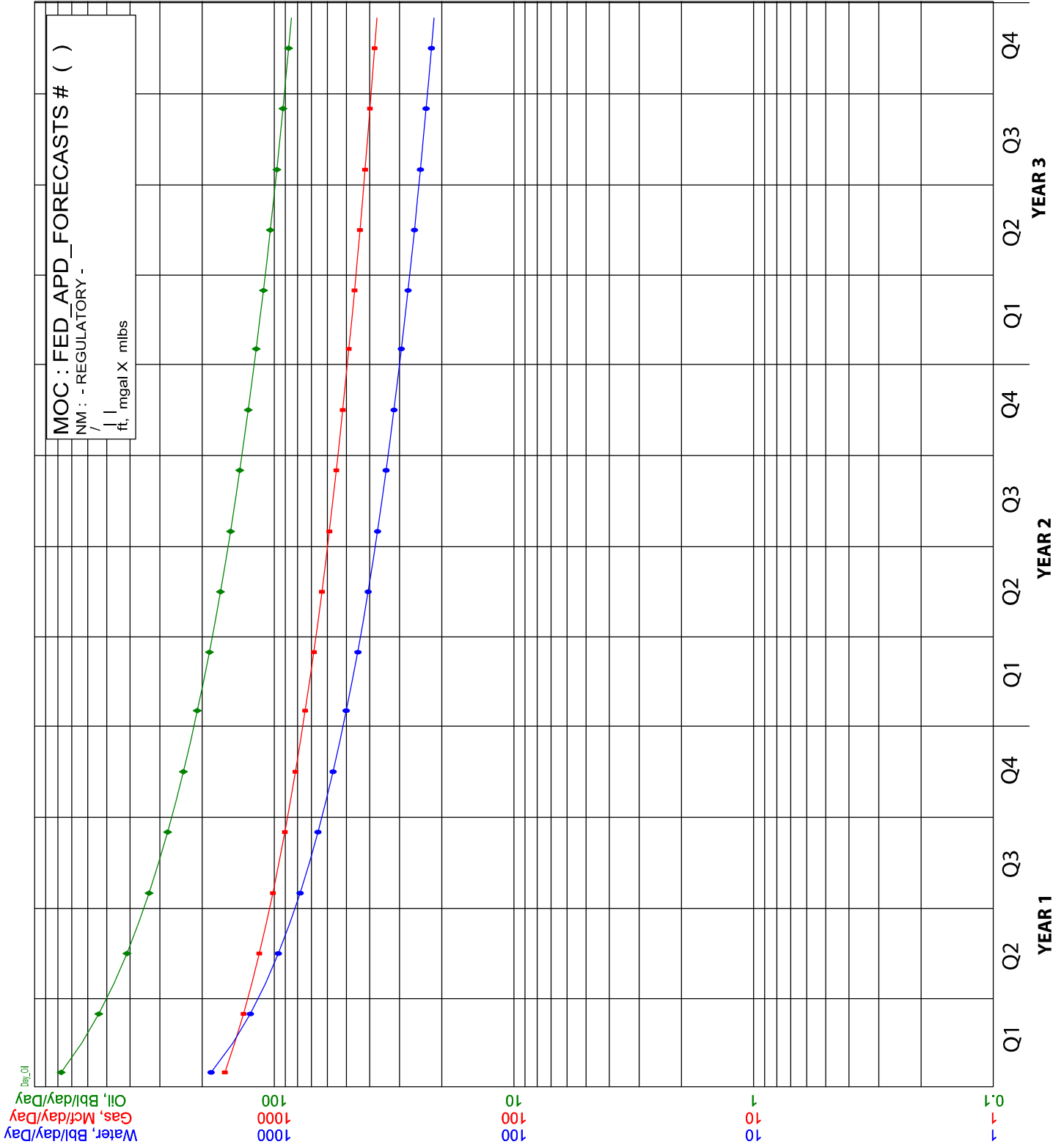
Mewbourne Oil Company

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 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 EDDYBS1.5
 Qual= 1/2025
 Ref= 0
 Cum= 242000
 Rem= 242000
 EUR= 3,000
 Yrs= 865.0
 Qj= 0.950000
 b= 75.000000
 De= 23.952479
 Df= 83.7
 Qab=

Gas, Mcf/day EDDYBS1.5
 Qual= 1/2025
 Ref= 0
 Cum= 779696
 Rem= 779696
 EUR= 3,000
 Yrs= 1690.0
 Qj= 1.050000
 b= 55.000000
 De= 20.108832
 Df= 369.3
 Qab=

Water, Bbl/d EDDYBS1.5
 Qual= 1/2025
 Ref= 0
 Cum= 579194
 Rem= 579194
 EUR= 3,000
 Yrs= 2065.0
 Qj= 1.050000
 b= 75.000000
 De= 22.260386
 Df= 213.0
 Qab=



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

Drilling Plan Data Report

12/12/2025

APD ID: 10400105757

Submission Date: 07/01/2025

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICHO 7/12 FED COM

Well Number: 521H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|--------------|-----------------|-----------|---------------|----------------|--------------------------------|-------------------|--------------------|
| 16949475 | UNKNOWN | 3283 | 28 | 28 | OTHER : Top soil | NONE | N |
| 16949486 | RUSTLER | 2951 | 332 | 332 | ANHYDRITE, DOLOMITE | USEABLE WATER | N |
| 16949487 | TOP SALT | 2729 | 554 | 554 | SALT | NONE | N |
| 16949479 | BASE OF SALT | 2368 | 915 | 915 | SALT | NONE | N |
| 16949480 | YATES | 2187 | 1096 | 1096 | SANDSTONE | NATURAL GAS, OIL | N |
| 16949489 | SEVEN RIVERS | 1961 | 1322 | 1322 | DOLOMITE | NATURAL GAS, OIL | N |
| 16949483 | CAPITAN REEF | 1837 | 1446 | 1446 | DOLOMITE, LIMESTONE | USEABLE WATER | N |
| 16949484 | CHERRY CANYON | 131 | 3152 | 3152 | SANDSTONE | NATURAL GAS, OIL | N |
| 16949485 | BRUSHY CANYON | -1247 | 4530 | 4530 | SANDSTONE | NATURAL GAS, OIL | N |
| 16949491 | BONE SPRING | -2286 | 5569 | 5569 | LIMESTONE, SHALE | NATURAL GAS, OIL | Y |
| 16949492 | BONE SPRING 1ST | -3597 | 6880 | 6880 | SANDSTONE | NATURAL GAS, OIL | N |
| 16949493 | BONE SPRING 2ND | -4328 | 7611 | 7611 | SANDSTONE | NATURAL GAS, OIL | Y |
| 16949494 | BONE SPRING 3RD | -5471 | 8754 | 8754 | SANDSTONE | NATURAL GAS, OIL | N |
| 16949495 | WOLFCAMP | -5878 | 9161 | 9161 | LIMESTONE, SANDSTONE, SHALE | NATURAL GAS, OIL | N |

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICHO 7/12 FED COM

Well Number: 521H

Pressure Rating (PSI): 5M

Rating Depth: 15999

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 chart. Anchors are 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 approved & incorporated, API Standard 53 will be incorporated and 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_20250630140415.pdf
- Flex_Line_Specs_API_16C_20250630140428.pdf
- Flex_Line_Specs_API_16C_20250926142815.pdf
- 5M_BOPE_Choke_Diagram_20250926142810.pdf

BOP Diagram Attachment:

- 5M_BOPE_Schematic_20250630140437.pdf
- Multi_Bowl_WH_20250630140441.pdf
- MOC_Break_Testing_Variance_20250630140535.pdf
- 5M_BOPE_Schematic_20250926142825.pdf
- Multi_Bowl_WH_20250926142832.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 | 407 | 0 | 407 | 3274 | 2867 | 407 | J-55 | 87.5 | BUTT | 3.46 | 12.3 ⁶ | DRY | 37.3 ² | DRY | 38.3 ⁹ |
| 2 | INTERMEDIATE | 17.5 | 13.375 | NEW | API | N | 0 | 1100 | 0 | 1100 | 3283 | 2174 | 1100 | H-40 | 48 | ST&C | 1.32 | 2.97 | DRY | 6.1 | DRY | 10.2 ⁵ |
| 3 | INTERMEDIATE | 12.2 | 9.625 | NEW | API | N | 0 | 3075 | 0 | 3075 | 3283 | 199 | 3075 | J-55 | 36 | LT&C | 1.47 | 2.56 | DRY | 4.09 | DRY | 5.09 |

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICHO 7/12 FED COM

Well Number: 521H

| 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 |
|-----------|-------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
| 4 | PRODUCTION | 8.75 | 7.0 | NEW | API | N | 0 | 7675 | 0 | 7296 | | -4022 | 7675 | P-110 | 26 | LT&C | 1.69 | 2.7 | DRY | 3.47 | DRY | 4.16 |
| 5 | LINER | 6.125 | 4.5 | NEW | API | N | 7475 | 15999 | 7137 | 7666 | -3863 | -4392 | 8524 | P-110 | 13.5 | LT&C | 2.27 | 2.64 | DRY | 2.94 | DRY | 3.67 |

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_20250630141319.pdf

18.625in_87.5__J55_BTC_Csg_20250926142945.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_20250630141114.pdf

13.375in_48__H40_STC_Csg_20250926142902.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICHO 7/12 FED COM

Well Number: 521H

Casing Attachments

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_36_J55_LTC_Csg_20250630140948.pdf

9.625in_36_J55_LTC_Csg_20250926142848.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26_P110_LTC_Csg_20250630141408.pdf

7in_26_P110_LTC_Csg_20250926142955.pdf

Casing ID: 5 **String** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5in_13.5_P110_LTC_Csg_20250630141212.pdf

4.5in_13.5_P110_LTC_Csg_20250926142929.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICHO 7/12 FED COM

Well Number: 521H

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 | 332 | 570 | 2.12 | 12.5 | 1210 | 100 | Class C | Salt, Gel, Extender, LCM |
| SURFACE | Tail | | 332 | 407 | 200 | 1.34 | 14.8 | 268 | 100 | Class C | Retarder |
| INTERMEDIATE | Lead | | 0 | 816 | 360 | 2.12 | 12.5 | 770 | 50 | Class C | Salt, Gel, Extender, LCM |
| INTERMEDIATE | Tail | | 816 | 1100 | 200 | 1.34 | 14.8 | 268 | 25 | Class C | Retarder |
| INTERMEDIATE | Lead | 1421 | 0 | 1083 | 200 | 2.12 | 12.5 | 430 | 25 | Class C | Salt, Gel, Extender, LCM |
| INTERMEDIATE | Tail | | 1083 | 1421 | 100 | 1.34 | 14.8 | 134 | 25 | Class C | Retarder |
| INTERMEDIATE | Lead | 1421 | 1421 | 2401 | 180 | 2.12 | 12.5 | 390 | 25 | CLASS C | SALT GEL EXTENDER LCM |
| INTERMEDIATE | Tail | | 2401 | 3075 | 200 | 1.34 | 14.8 | 268 | 25 | CLASS C | RETARDER |
| PRODUCTION | Lead | | 1396 | 5964 | 590 | 2.12 | 12.5 | 1260 | 25 | Class C | Salt, Gel, Extender, LCM, Defoamer |
| PRODUCTION | Tail | | 5964 | 7675 | 472 | 1.18 | 15.6 | 472 | 25 | Class H | Retarder, Fluid Loss, Defoamer |
| LINER | Lead | | 7475 | 1599 9 | 550 | 1.85 | 13.5 | 1020 | 25 | Class H | Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent |

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICHO 7/12 FED COM

Well Number: 521H

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 |
|-----------|--------------|--------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 7675 | 1599 9 | OIL-BASED MUD | 10 | 11.5 | | | | | | | |
| 0 | 407 | SPUD MUD | 8.4 | 8.6 | | | | | | | |
| 407 | 1100 | WATER-BASED MUD | 10 | 10.2 | | | | | | | |
| 1100 | 3075 | SPUD MUD | 8.4 | 8.6 | | | | | | | |
| 3075 | 7675 | WATER-BASED MUD | 8.6 | 9.7 | | | | | | | |

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICHO 7/12 FED COM

Well Number: 521H

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: Jericho 7/12 Fed Com #527H

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4706

Anticipated Surface Pressure: 2974

Anticipated Bottom Hole Temperature(F): 140

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_20250630144153.pdf

H2S_Plan_20250926143018.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JERICHO_7_12_FED_COM_521H_Dir_Plan_20250630144210.pdf

JERICHO_7_12_FED_COM_521H_Dir_Plot_20250630144219.pdf

JERICHO_7_12_FED_COM_521H_Dir_Plan_20250926143031.pdf

JERICHO_7_12_FED_COM_521H_Dir_Plot_20250926143035.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

JERICHO_7_12_FED_COM_521H_Waste_Min_20250805155557.pdf

Jericho_7_12_Fed_Com_521H_Drlg_Program_20250807081117.pdf

Jericho_7_12_Fed_Com_521H_Drlg_Program_20250926143045.pdf

JERICHO_7_12_FED_COM_521H_NGMP_20250926143051.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICO 7/12 FED COM

Well Number: 521H

Other Variance attachment:

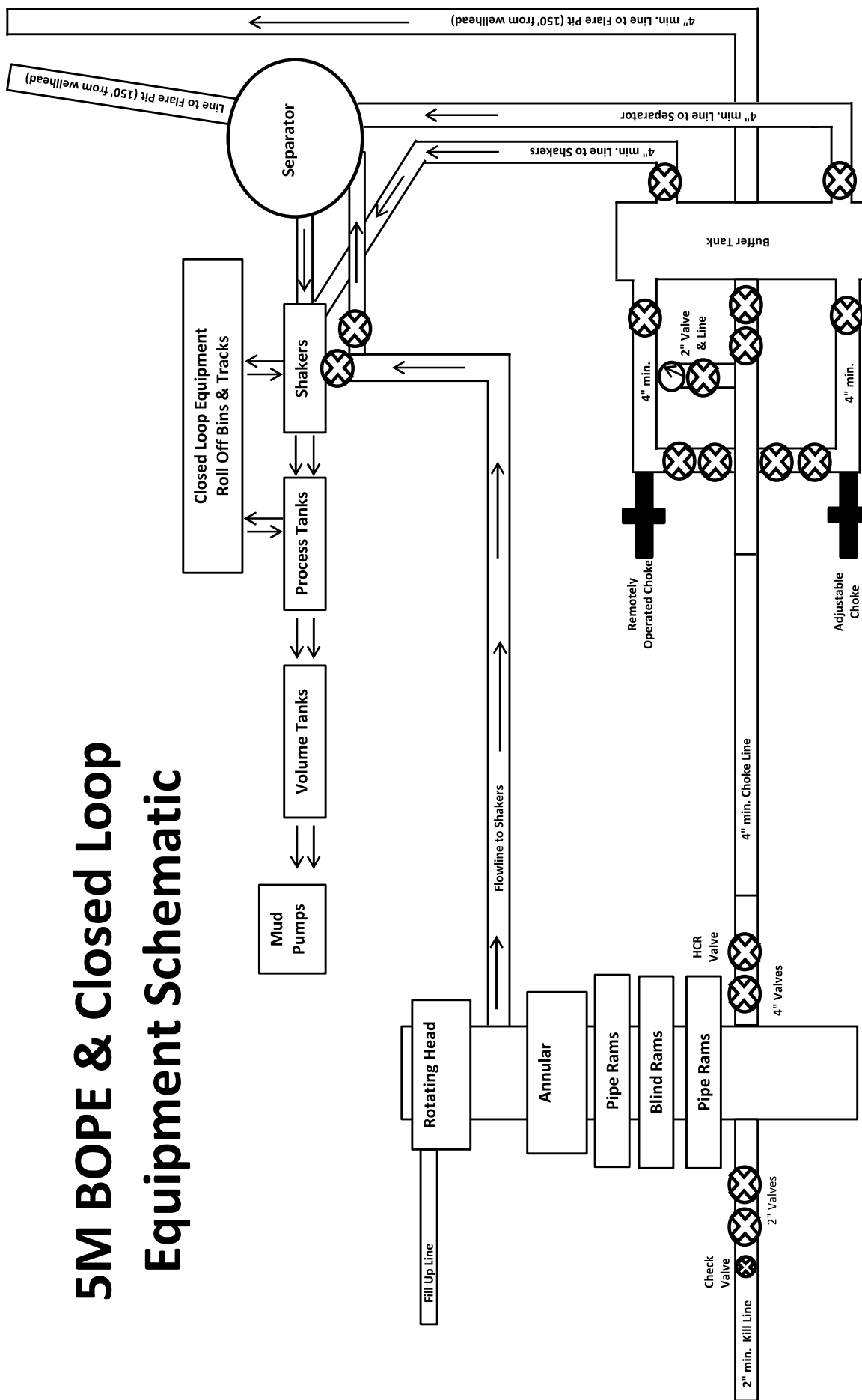
MOC_Offline_Cementing_Variance_20250805155606.pdf

MOC_Break_Testing_Variance_20250926143059.pdf

MOC_Offline_Cementing_Variance_20250926143103.pdf

CONFIDENTIAL

5M BOPE & Closed Loop Equipment Schematic



Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.

Drawing not to scale



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 |

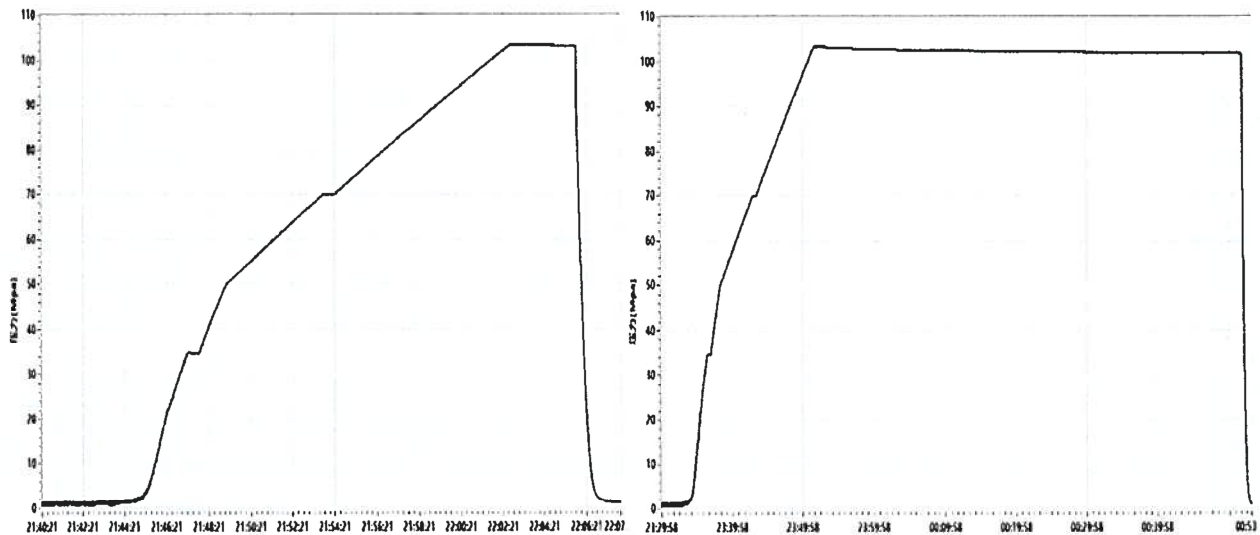
Rate of length change

| | |
|-----------------------|---|
| 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 | Huiling Dong | Inspector | Zhansheng Wang |



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYQ/QR-5.7.1-19B

№: 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℃~+121℃ | 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 | Huiling 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 .

QC Manager: *Jiaolong Chen*

Date:Aug 26, 2023



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 |

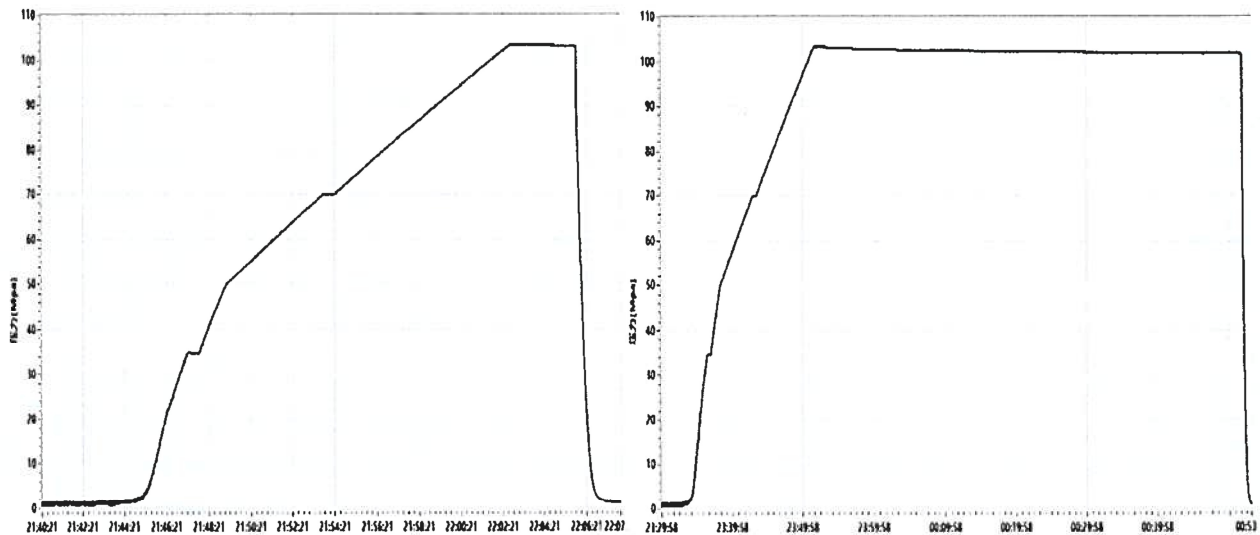
Rate of length change

| | |
|-----------------------|---|
| 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 | Huiling Dong | Inspector | Zhansheng Wang |



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYQ/QR-5.7.1-19B

№: 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℃~+121℃ | 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 | Huiling 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

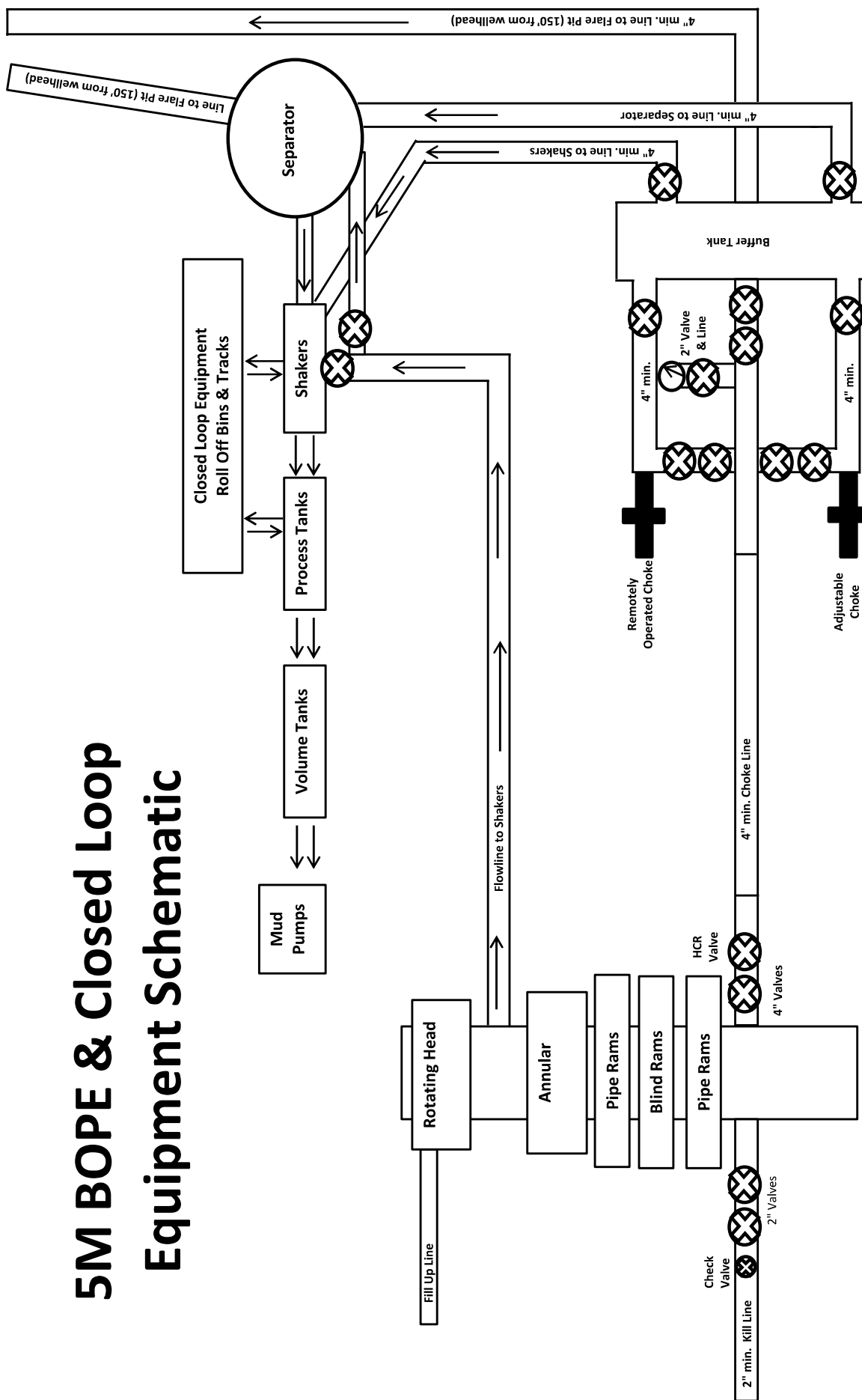
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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 .

QC Manager: *Jiaolong Chen*

Date:Aug 26, 2023

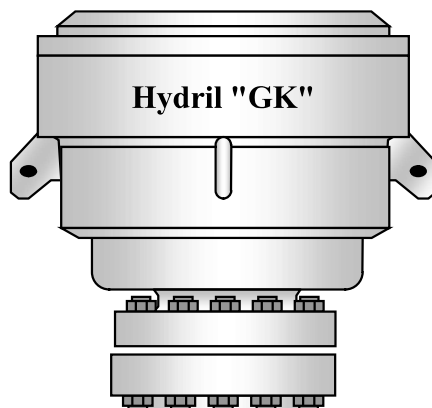
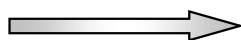
5M BOPE & Closed Loop Equipment Schematic



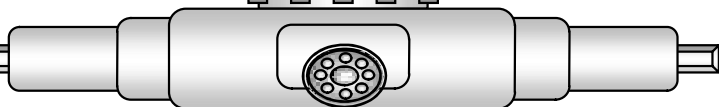
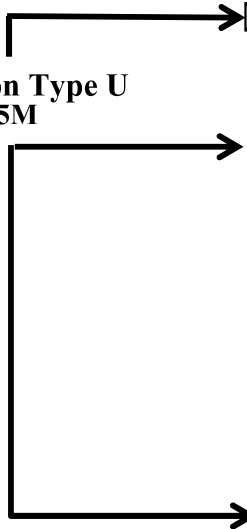
Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.

Drawing not to scale

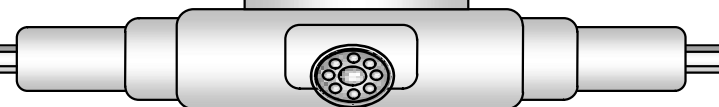
Hydril "GK"
13 5/8" 5M



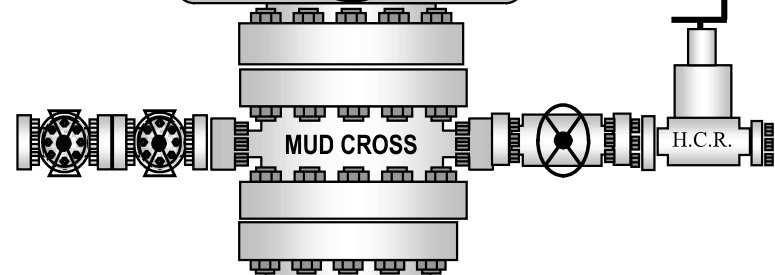
Cameron Type U
13 5/8" 5M



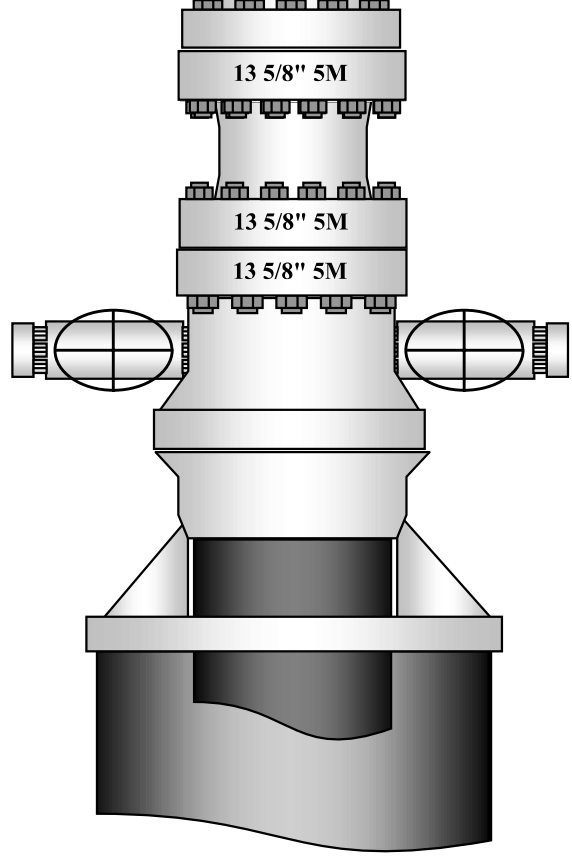
4 1/2" x 5 7/8" VBR



BLIND RAMS



7" RAMS

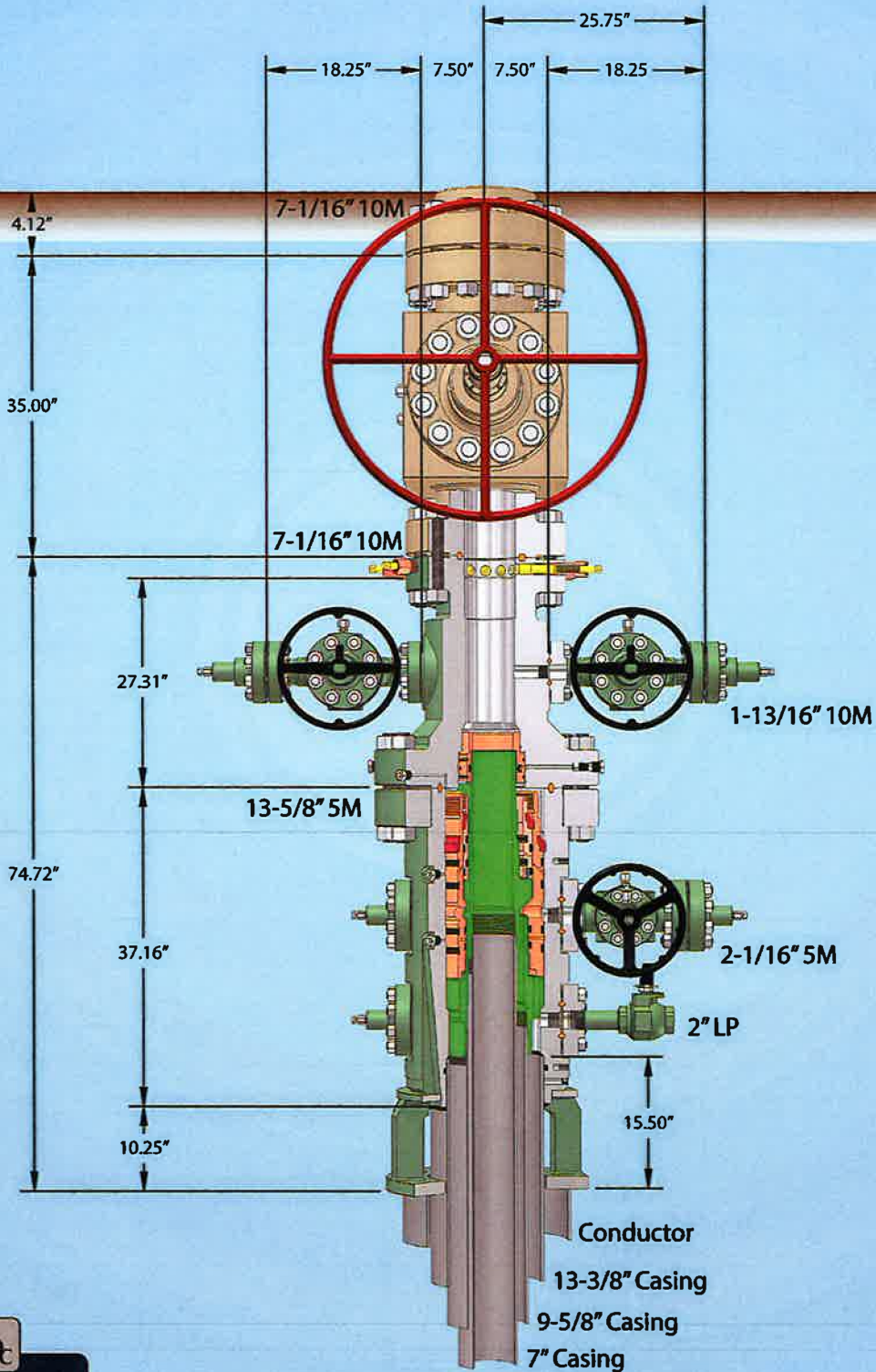




13-5/8" MN-DS Wellhead System

Ground Level

Ground Level



C7585 Rev. 02

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

Cuffing Home 57" conductor cut-off



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.

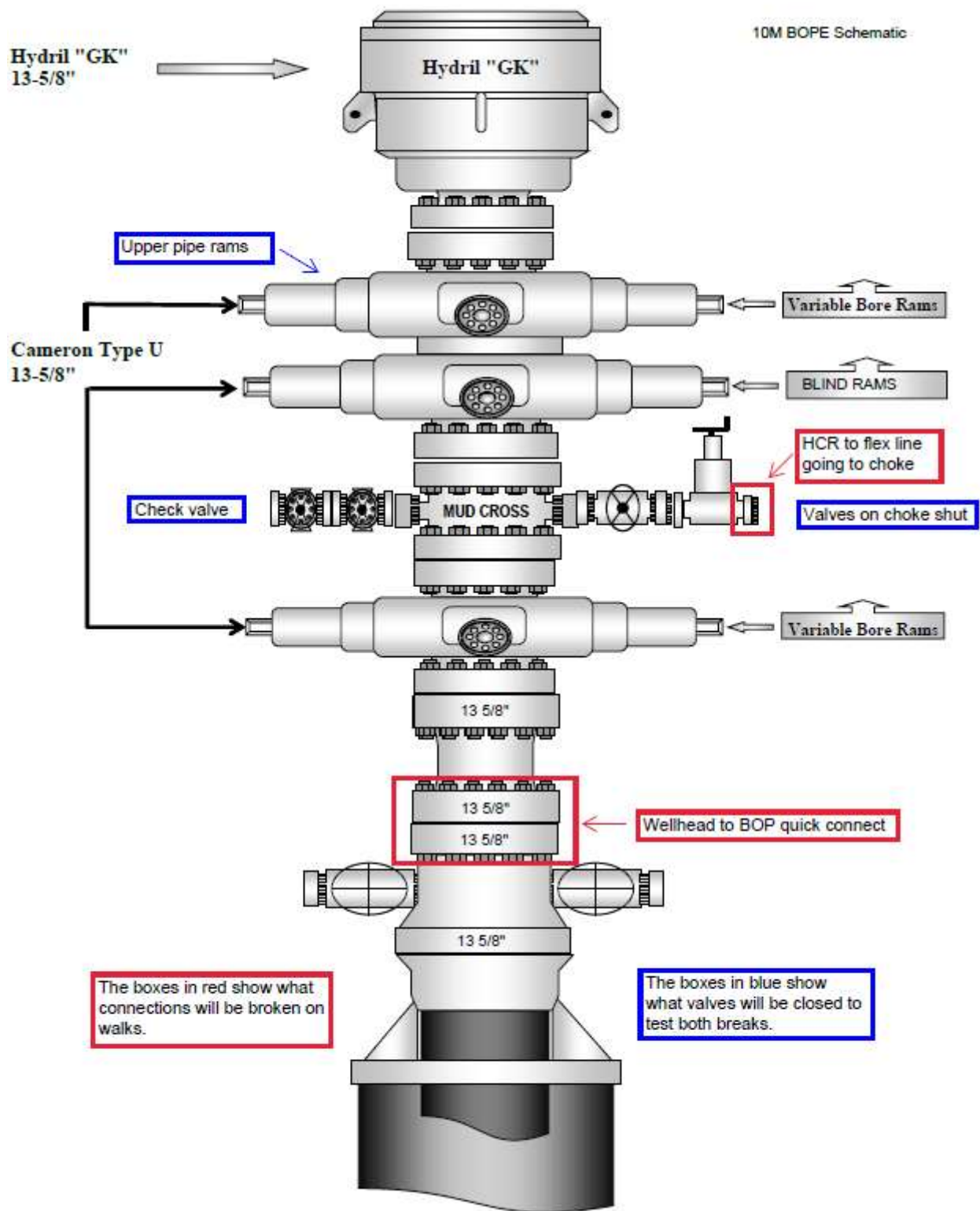


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

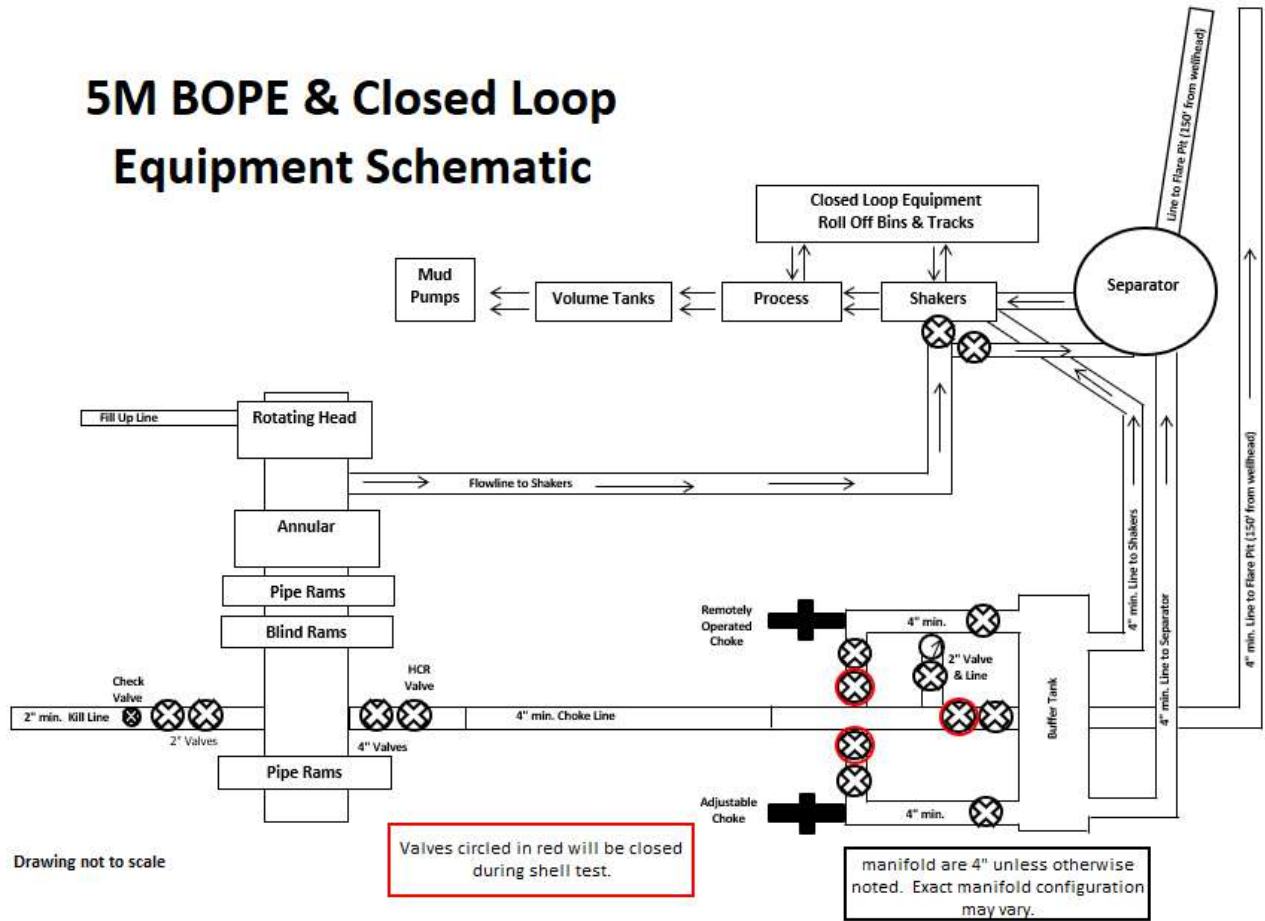


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

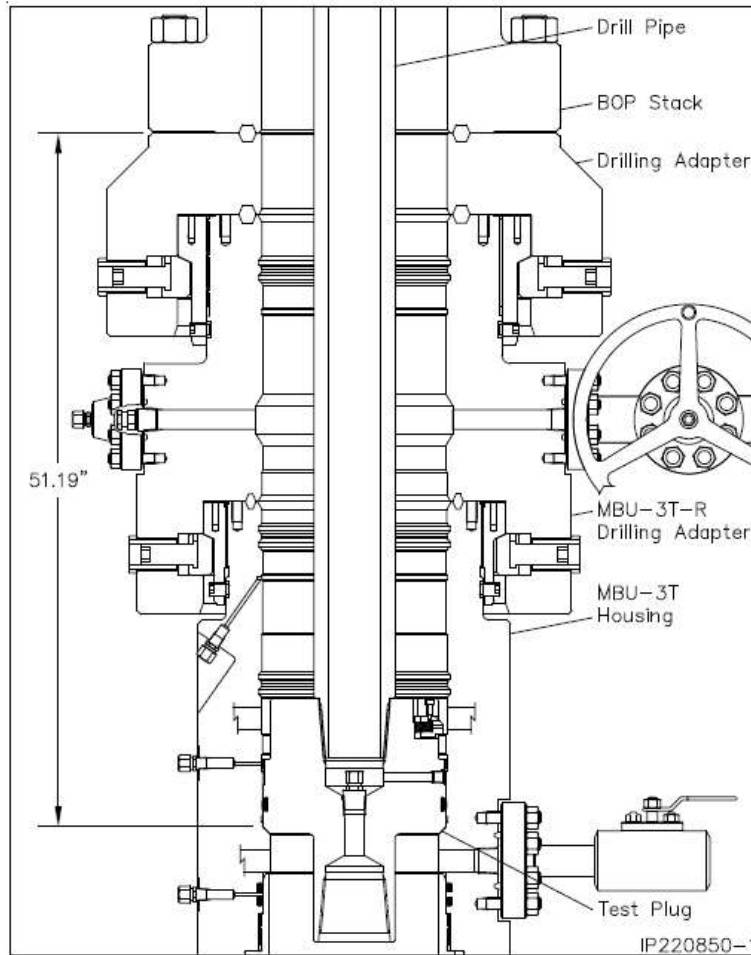


Figure 5. Cactus 5M wellhead with BOP quick connect

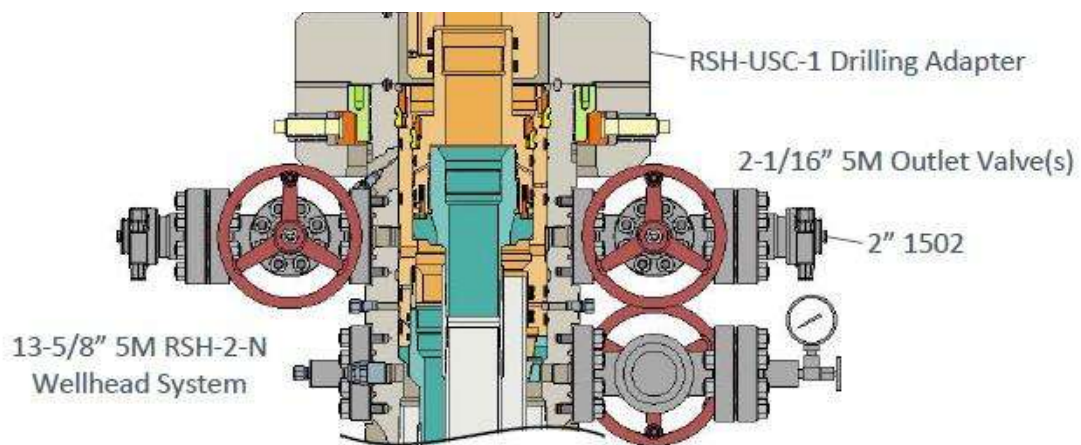
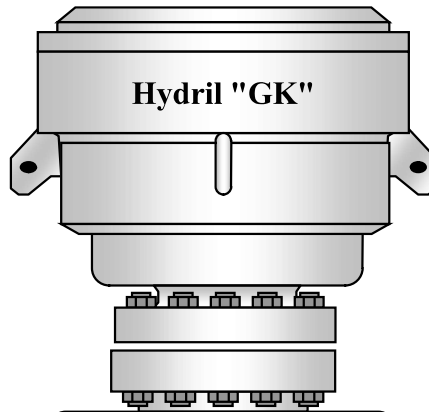
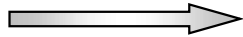
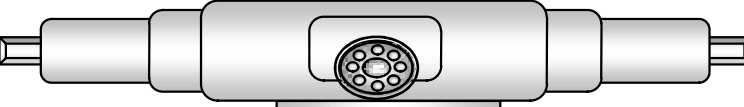
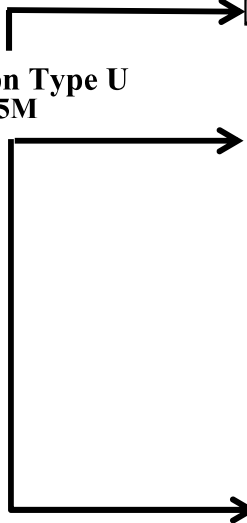


Figure 6. Vault 5M wellhead with BOP quick connect

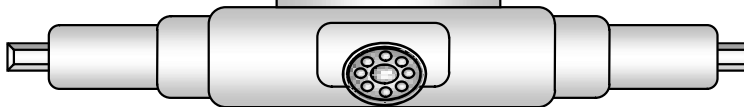
Hydril "GK"
13 5/8" 5M



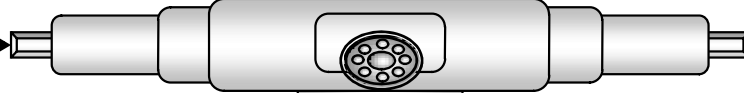
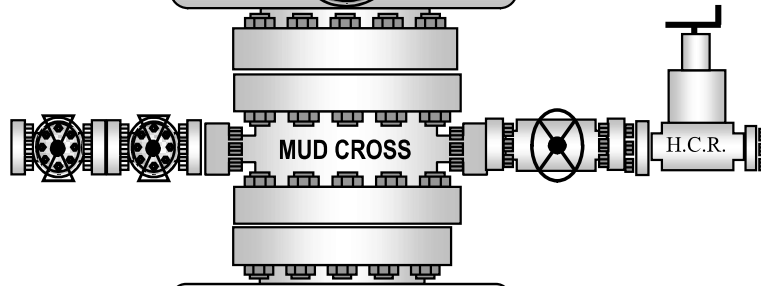
Cameron Type U
13 5/8" 5M



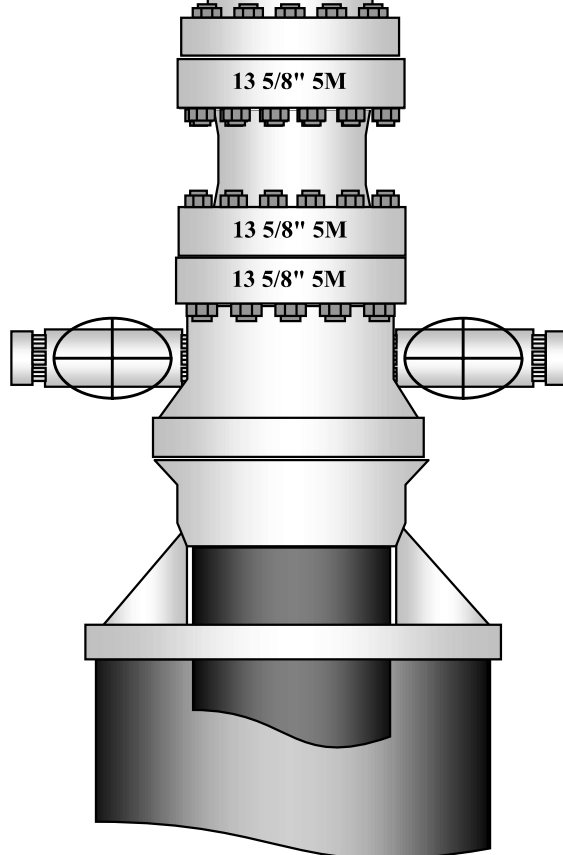
4 1/2" x 5 7/8" VBR



BLIND RAMS



7" RAMS

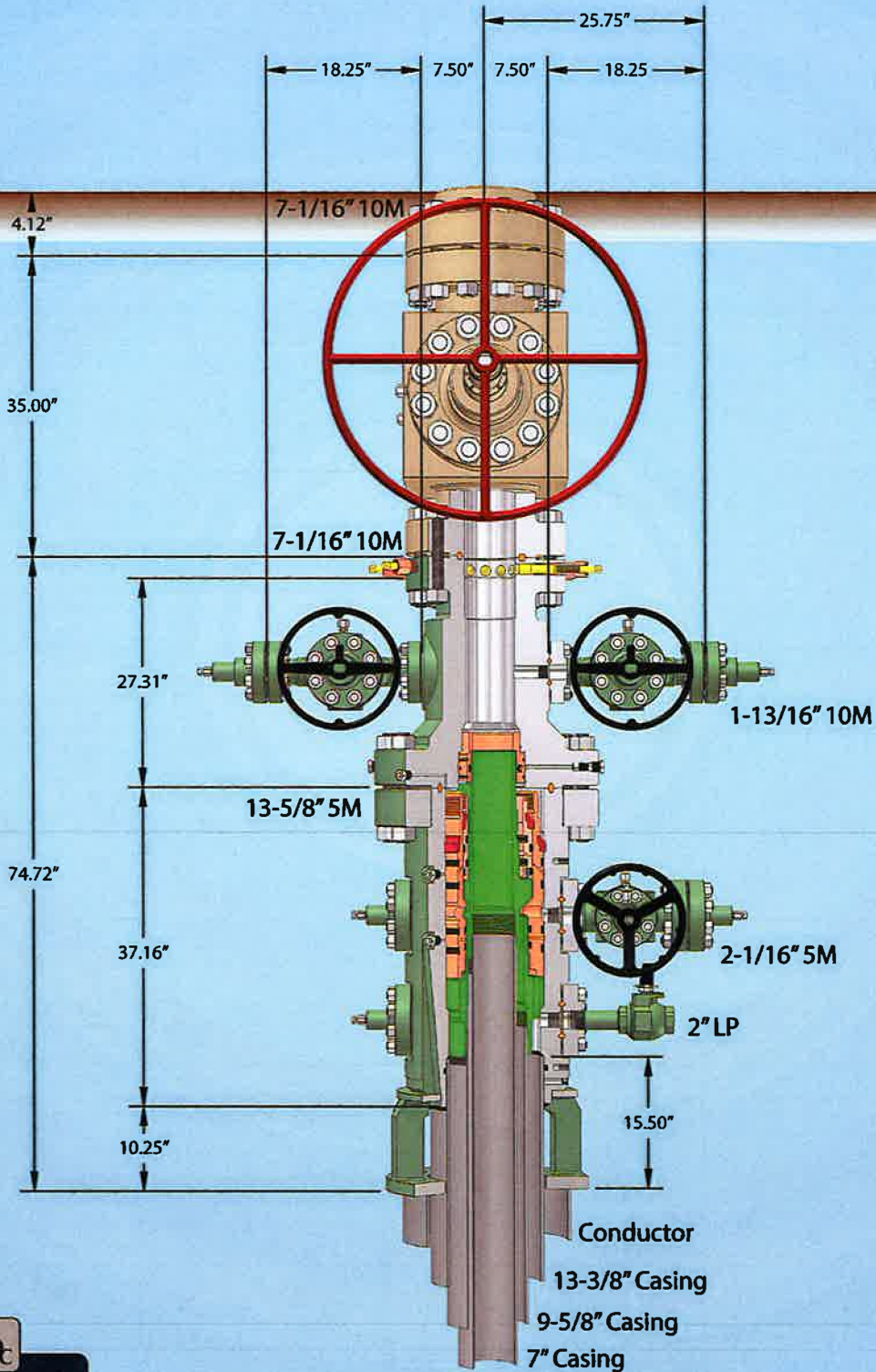




13-5/8" MN-DS Wellhead System

Ground Level

Ground Level



Cuffing Home 57" conductor cut-off

C7585 Rev. 02

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



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. | | |
| | | SMYS | 55,000 psi |
| | | Min UTS | 75,000 psi |
| | | Body Yield Strength | 564 x1000 lb |
| | | Min. Internal Yield Pressure | 3520 psi |
| | | Collapse Pressure | 2020 psi |
| | | Max. Allowed Bending | 26 °/100 ft |

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. 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. | | |
| | | SMYS | 55,000 psi |
| | | Min UTS | 75,000 psi |
| | | Body Yield Strength | 564 x1000 lb |
| | | Min. Internal Yield Pressure | 3520 psi |
| | | Collapse Pressure | 2020 psi |
| | | Max. Allowed Bending | 26 °/100 ft |

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

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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. | Wall Thickness | 0.330 in. | Grade | H40 |
| 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 | 12.559 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. | | |
| | | SMYS | 40,000 psi |
| | | Min UTS | 60,000 psi |
| | | Body Yield Strength | 541 x1000 lb |
| | | Min. Internal Yield Pressure | 1730 psi |
| | | Collapse Pressure | 740 psi |
| | | Max. Allowed Bending | 14 °/100 ft |

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: 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. | Wall Thickness | 0.330 in. | Grade | H40 |
| 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 | 12.559 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. | | |
| | | SMYS | 40,000 psi |
| | | Min UTS | 60,000 psi |
| | | Body Yield Strength | 541 x1000 lb |
| | | Min. Internal Yield Pressure | 1730 psi |
| | | Collapse Pressure | 740 psi |
| | | Max. Allowed Bending | 14 °/100 ft |

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 LTC

| Coupling | Pipe Body |
|-------------|-----------------|
| Grade: P110 | Grade: P110 |
| Body: White | 1st Band: White |
| 1st Band: - | 2nd Band: - |
| 2nd Band: - | 3rd Band: - |
| 3rd Band: - | 4th Band: - |

| | | | | | |
|----------------------|-----------|-----------------|--------------|-------|--------|
| Outside Diameter | 4.500 in. | Wall Thickness | 0.290 in. | Grade | P110 |
| Min. Wall Thickness | 87.50 % | Pipe Body Drift | API Standard | Type | Casing |
| Connection OD Option | Regular | | | | |

Pipe Body Data

| Geometry | | Performance | |
|----------------|--------------|------------------------------|--------------|
| Nominal OD | 4.500 in. | Drift | 3.795 in. |
| Wall Thickness | 0.290 in. | Plain End Weight | 13.05 lb/ft |
| Nominal Weight | 13.500 lb/ft | OD Tolerance | API |
| Nominal ID | 3.920 in. | | |
| | | SMYS | 110,000 psi |
| | | Min UTS | 125,000 psi |
| | | Body Yield Strength | 422 x1000 lb |
| | | Min. Internal Yield Pressure | 12,410 psi |
| | | Collapse Pressure | 10,690 psi |
| | | Max. Allowed Bending | 112 °/100 ft |

Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|----------------------|-----------|----------------------------|--------------|-----------------|------------|
| Thread per In | 8 | Joint Strength | 338 x1000 lb | Minimum Torque | 2750 ft-lb |
| Connection OD | 5.250 in. | Coupling Face Load | 473 x1000 lb | Optimum Torque | 3660 ft-lb |
| Hand Tight Stand Off | 3 in. | Internal Pressure Capacity | 12,410 psi | Maximum Torque | 4580 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: P110 | Grade: P110 |
| Body: White | 1st Band: White |
| 1st Band: - | 2nd Band: - |
| 2nd Band: - | 3rd Band: - |
| 3rd Band: - | 4th Band: - |

| | | | | | |
|----------------------|-----------|-----------------|--------------|-------|--------|
| Outside Diameter | 4.500 in. | Wall Thickness | 0.290 in. | Grade | P110 |
| Min. Wall Thickness | 87.50 % | Pipe Body Drift | API Standard | Type | Casing |
| Connection OD Option | Regular | | | | |

Pipe Body Data

| Geometry | | Performance | |
|----------------|--------------|------------------------------|--------------|
| Nominal OD | 4.500 in. | Drift | 3.795 in. |
| Wall Thickness | 0.290 in. | Plain End Weight | 13.05 lb/ft |
| Nominal Weight | 13.500 lb/ft | OD Tolerance | API |
| Nominal ID | 3.920 in. | | |
| | | SMYS | 110,000 psi |
| | | Min UTS | 125,000 psi |
| | | Body Yield Strength | 422 x1000 lb |
| | | Min. Internal Yield Pressure | 12,410 psi |
| | | Collapse Pressure | 10,690 psi |
| | | Max. Allowed Bending | 112 °/100 ft |

Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|----------------------|-----------|----------------------------|--------------|-----------------|------------|
| Thread per In | 8 | Joint Strength | 338 x1000 lb | Minimum Torque | 2750 ft-lb |
| Connection OD | 5.250 in. | Coupling Face Load | 473 x1000 lb | Optimum Torque | 3660 ft-lb |
| Hand Tight Stand Off | 3 in. | Internal Pressure Capacity | 12,410 psi | Maximum Torque | 4580 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 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. | | |
| | | SMYS | 55,000 psi |
| | | Min UTS | 75,000 psi |
| | | Body Yield Strength | 1367 x1000 lb |
| | | Min. Internal Yield Pressure | 2250 psi |
| | | Collapse Pressure | 630 psi |
| | | Max. Allowed Bending | 13.54 °/100 ft |

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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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. | | |
| | | SMYS | 55,000 psi |
| | | Min UTS | 75,000 psi |
| | | Body Yield Strength | 1367 x1000 lb |
| | | Min. Internal Yield Pressure | 2250 psi |
| | | Collapse Pressure | 630 psi |
| | | Max. Allowed Bending | 13.54 °/100 ft |

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

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API LTC

| Coupling | Pipe Body |
|-------------|-----------------|
| Grade: P110 | Grade: P110 |
| Body: White | 1st Band: White |
| 1st Band: - | 2nd Band: - |
| 2nd Band: - | 3rd Band: - |
| 3rd Band: - | 4th Band: - |

| | | | | | |
|----------------------|-----------|-----------------|--------------|-------|--------|
| Outside Diameter | 7.000 in. | Wall Thickness | 0.362 in. | Grade | P110 |
| Min. Wall Thickness | 87.50 % | Pipe Body Drift | API Standard | Type | Casing |
| Connection OD Option | Regular | | | | |

Pipe Body Data

| Geometry | | Performance | |
|----------------|-----------|------------------------------|--------------|
| Nominal OD | 7.000 in. | Drift | 6.151 in. |
| Wall Thickness | 0.362 in. | Plain End Weight | 25.69 lb/ft |
| Nominal Weight | 26 lb/ft | OD Tolerance | API |
| Nominal ID | 6.276 in. | | |
| | | SMYS | 110,000 psi |
| | | Min UTS | 125,000 psi |
| | | Body Yield Strength | 830 x1000 lb |
| | | Min. Internal Yield Pressure | 9960 psi |
| | | Collapse Pressure | 6230 psi |
| | | Max. Allowed Bending | 72 °/100 ft |

Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|----------------------|-----------|----------------------------|--------------|-----------------|------------|
| Thread per In | 8 | Joint Strength | 693 x1000 lb | Minimum Torque | 5200 ft-lb |
| Connection OD | 7.875 in. | Coupling Face Load | 799 x1000 lb | Optimum Torque | 6930 ft-lb |
| Hand Tight Stand Off | 3 in. | Internal Pressure Capacity | 9960 psi | Maximum Torque | 8660 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: P110 | Grade: P110 |
| Body: White | 1st Band: White |
| 1st Band: - | 2nd Band: - |
| 2nd Band: - | 3rd Band: - |
| 3rd Band: - | 4th Band: - |

| | | | | | |
|----------------------|-----------|-----------------|--------------|-------|--------|
| Outside Diameter | 7.000 in. | Wall Thickness | 0.362 in. | Grade | P110 |
| Min. Wall Thickness | 87.50 % | Pipe Body Drift | API Standard | Type | Casing |
| Connection OD Option | Regular | | | | |

Pipe Body Data

| Geometry | | Performance | |
|----------------|-----------|------------------------------|--------------|
| Nominal OD | 7.000 in. | Drift | 6.151 in. |
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| | | Min. Internal Yield Pressure | 9960 psi |
| | | Collapse Pressure | 6230 psi |
| | | Max. Allowed Bending | 72 °/100 ft |

Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|----------------------|-----------|----------------------------|--------------|-----------------|------------|
| Thread per In | 8 | Joint Strength | 693 x1000 lb | Minimum Torque | 5200 ft-lb |
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| Hand Tight Stand Off | 3 in. | Internal Pressure Capacity | 9960 psi | Maximum Torque | 8660 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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Well Location **GL: 3274'**

| Point | Calls | Leases |
|-------|-------------------------------------|----------|
| SHL | SHL: 2570' FNL & 320' FWL (Sec 8) | NMNM1038 |
| KOP | KOP: 500' FNL & 473' FWL (Sec 8) | NMNM1038 |
| FTP | FTP/LP: 500' FNL & 100' FEL (Sec 7) | NMNM0001 |
| PPP2 | PPP2: 465' FNL & 2315' FWL (Sec 7) | NMNM0144 |
| PPP3 | PPP3: 539' FNL & 0' FEL (Sec 12) | NMNM0054 |
| BHL | BHL: 500' FNL & 2566' FEL (Sec 12) | NMNM0054 |

GEOLOGY

| Formation | Est. Top (TVD) | Lithology | Miner |
|----------------|----------------|--------------------|-------|
| Rustler | 332' | Dolomite/Anhydrite | Us |
| Castile | | | |
| Salt Top | 554' | Salt | |
| Marker Bed 126 | | | |
| Salt Base | 915' | Salt | |
| Yates | 1096' | Sandstone | Oil/ |
| Seven Rivers | 1322' | Dolomite | Oil/ |
| Queen | | | |
| Capitan | 1446' | Limestone/Dolomite | Us |
| Grayburg | | | |
| San Andres | | | |
| Glorietta | | | |
| Yeso | | | |

Casing Program Design A

| Casing String | Hole Diameter (in) | Top MD | Top TVD | Bottom M |
|----------------|--------------------|--------|---------|----------|
| Surface | 26" | 0' | 0' | 407' |
| Intermediate 1 | 17.5" | 0' | 0' | 1100' |

Design A - Cement Program

| Casing | Cement Stage | # sx | Density (ppg) | Yield (ft ³ /sa) |
|------------------|--------------|------|---------------|-----------------------------|
| 18.625 in | LEAD | 570 | 12.5 | 2.12 |
| | TAIL | 200 | 14.8 | 1.34 |
| 13.375 in | LEAD | 360 | 12.5 | 2.12 |
| | TAIL | 200 | 14.8 | 1.34 |
| 1st Stg 9.625 in | LEAD | 180 | 12.5 | 2.12 |
| | TAIL | 200 | 14.8 | 1.34 |
| | | | | |
| 2nd Stg 9.625 in | LEAD | 200 | 12.5 | 2.12 |
| | TAIL | 100 | 14.8 | 1.34 |
| 7 in | LEAD | 590 | 12.5 | 2.12 |
| | TAIL | 400 | 15.6 | 1.18 |
| 4.5 in | LEAD | 550 | 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* |

*Specify if additional ram is utilized

Logging and Testing Procedures

| Logging, Coring and Testing. | |
|------------------------------|---|
| N | Will run GR/CNL from KOP (7675') to surface (horizontal well – vertical po |
| Y | No logs are planned based on well control or offset log information. Offset W |
| 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"/> |
| <input type="checkbox"/> | Dip Meter Log | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | Dual Lateral Log/Microspherically Focused | <input type="checkbox"/> |
| <input type="checkbox"/> | Gamma Ray Log | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | Other | <input type="checkbox"/> |
| <input type="checkbox"/> | Sonic Log | <input type="checkbox"/> |

Drilling Conditions

| Condition | Specify what type and where |
|--|-----------------------------|
| BH Pressure at deepest TVD | 4706 psi |
| BH Temperature | 140 |
| Abnormal Temp, Pressure, or Geologic Hazards | No |

Mitigation measure for abnormal conditions. Describe. **Lost circulation material/sweeps/mud so**
hole. 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
 with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, mea

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

| Casing Program Design B | | | | |
|-------------------------|--------------------|--------|---------|-----------|
| Casing String | Hole Diameter (in) | Top MD | Top TVD | Bottom MD |
| Surface | 26" | 0' | 0' | 407' |
| Intermediate 1 | 17.5" | 0' | 0' | 1100' |
| Intermediate 2 | 12.25" | 0' | 0' | 3075' |
| Production | 8.75" | 0' | 0' | 8575' |
| Liner | 6.125" | 7675' | 7296' | 15999' |

All casing strings will be tested in accordance with

| |
|--|
| 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 rating? |
| Is well located within Capitan Reef? |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? |
| Is well within the designated 4 string boundary. |
| Is well located in SOPA but not in R-111-Q? |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into production casing? |
| Is well located in R-111-Q and SOPA? |

Well Location **GL: 3274'**

| Point | Calls | Leases |
|-------|-------------------------------------|----------|
| SHL | SHL: 2570' FNL & 320' FWL (Sec 8) | NMNM1038 |
| KOP | KOP: 500' FNL & 473' FWL (Sec 8) | NMNM1038 |
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| Glorietta | | | |
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| <input type="checkbox"/> | Gamma Ray Log | <input checked="" type="checkbox"/> |
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| 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 3 rd string cement tied back 500' into production casing? |
| Is well located in R-111-Q and SOPA? |

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Jericho 7/12 Fed Com #521H

Sec 08, T20S, R29E

SHL: 2570' FNL & 320' FWL (Sec 8)

BHL: 500' FNL & 2566' FEL (Sec 12)

Plan: Design #1

Standard Planning Report

18 June, 2025

Planning Report

| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Database: | Hobbs | Local Co-ordinate Reference: | Site Jericho 7/12 Fed Com #521H |
| Company: | Mewbourne Oil Company | TVD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Project: | Eddy County, New Mexico NAD 83 | MD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Site: | Jericho 7/12 Fed Com #521H | North Reference: | Grid |
| Well: | Sec 08, T20S, R29E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | BHL: 500' FNL & 2566' FEL (Sec 12) | | |
| Design: | Design #1 | | |

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

| | | | | | |
|------------------------------|----------------------------|---------------------|-----------------|-------------------|--------------|
| Site | Jericho 7/12 Fed Com #521H | | | | |
| Site Position: | | Northing: | 577,802.70 usft | Latitude: | 32.5882253 |
| From: | Map | Easting: | 611,739.00 usft | Longitude: | -104.1047519 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | | |

| | | | | | | |
|-----------------------------|--------------------|----------|----------------------------|-----------------|----------------------|--------------|
| Well | Sec 08, T20S, R29E | | | | | |
| Well Position | +N-S | 0.0 usft | Northing: | 577,802.70 usft | Latitude: | 32.5882253 |
| | +E-W | 0.0 usft | Easting: | 611,739.00 usft | Longitude: | -104.1047519 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 3,302.0 usft | Ground Level: | 3,274.0 usft |
| Grid Convergence: | 0.12 ° | | | | | |

| | | | | | |
|------------------|------------------------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | BHL: 500' FNL & 2566' FEL (Sec 12) | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 12/31/2014 | 7.42 | 60.34 | 48,398.83500316 |

| | | | | |
|--------------------------|--------------------------------|--------------------|----------------------|----------------------|
| 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 | 285.39 |

| | | | | |
|---------------------------------|------------------------|--------------------------|---------------------------------|----------------|
| Plan Survey Tool Program | Date | 6/18/2025 | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.0 | 15,999.9 | Design #1 (BHL: 500' FNL & 2566 | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|--------------------|--------------------|--------------------------------|-------------------------------|------------------------------|----------------|-----------------------|
| 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 | |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,212.9 | 22.26 | 4.10 | 2,185.1 | 212.9 | 15.2 | 2.00 | 2.00 | 0.00 | 4.10 | |
| 6,562.8 | 22.26 | 4.10 | 6,210.9 | 1,856.4 | 133.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,675.7 | 0.00 | 0.00 | 7,296.0 | 2,069.3 | 148.2 | 2.00 | -2.00 | 0.00 | 180.00 | KOP: 500' FNL & 473' |
| 8,591.8 | 91.57 | 270.65 | 7,869.0 | 2,076.0 | -440.7 | 10.00 | 10.00 | 0.00 | -89.35 | |
| 15,999.9 | 91.57 | 270.65 | 7,666.0 | 2,159.7 | -7,845.5 | 0.00 | 0.00 | 0.00 | 0.00 | BHL: 500' FNL & 2566' |

Planning Report

| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Database: | Hobbs | Local Co-ordinate Reference: | Site Jericho 7/12 Fed Com #521H |
| Company: | Mewbourne Oil Company | TVD Reference: | WELL @ 3302.0usft (Original Well Elev) |
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| Site: | Jericho 7/12 Fed Com #521H | North Reference: | Grid |
| Well: | Sec 08, T20S, R29E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | BHL: 500' FNL & 2566' FEL (Sec 12) | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|--|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| SHL: 2570' FNL & 320' FWL (Sec 8) | | | | | | | | | | |
| 50.0 | 0.00 | 0.00 | 50.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150.0 | 0.00 | 0.00 | 150.0 | 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 |
| 250.0 | 0.00 | 0.00 | 250.0 | 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 |
| 350.0 | 0.00 | 0.00 | 350.0 | 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 |
| 450.0 | 0.00 | 0.00 | 450.0 | 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 |
| 550.0 | 0.00 | 0.00 | 550.0 | 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 |
| 650.0 | 0.00 | 0.00 | 650.0 | 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 |
| 750.0 | 0.00 | 0.00 | 750.0 | 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 |
| 850.0 | 0.00 | 0.00 | 850.0 | 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 |
| 950.0 | 0.00 | 0.00 | 950.0 | 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 |
| 1,050.0 | 0.00 | 0.00 | 1,050.0 | 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 |
| 1,150.0 | 1.00 | 4.10 | 1,150.0 | 0.4 | 0.0 | 0.1 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,200.0 | 2.00 | 4.10 | 1,200.0 | 1.7 | 0.1 | 0.3 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,250.0 | 3.00 | 4.10 | 1,249.9 | 3.9 | 0.3 | 0.8 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,300.0 | 4.00 | 4.10 | 1,299.8 | 7.0 | 0.5 | 1.4 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,350.0 | 5.00 | 4.10 | 1,349.7 | 10.9 | 0.8 | 2.1 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,400.0 | 6.00 | 4.10 | 1,399.5 | 15.7 | 1.1 | 3.1 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,450.0 | 7.00 | 4.10 | 1,449.1 | 21.3 | 1.5 | 4.2 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,500.0 | 8.00 | 4.10 | 1,498.7 | 27.8 | 2.0 | 5.5 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,550.0 | 9.00 | 4.10 | 1,548.2 | 35.2 | 2.5 | 6.9 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,600.0 | 10.00 | 4.10 | 1,597.5 | 43.4 | 3.1 | 8.5 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,650.0 | 11.00 | 4.10 | 1,646.6 | 52.5 | 3.8 | 10.3 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,700.0 | 12.00 | 4.10 | 1,695.6 | 62.4 | 4.5 | 12.3 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,750.0 | 13.00 | 4.10 | 1,744.4 | 73.2 | 5.2 | 14.4 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,800.0 | 14.00 | 4.10 | 1,793.1 | 84.9 | 6.1 | 16.7 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,850.0 | 15.00 | 4.10 | 1,841.5 | 97.4 | 7.0 | 19.1 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,900.0 | 16.00 | 4.10 | 1,889.6 | 110.7 | 7.9 | 21.7 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,950.0 | 17.00 | 4.10 | 1,937.6 | 124.9 | 8.9 | 24.5 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,000.0 | 18.00 | 4.10 | 1,985.3 | 139.9 | 10.0 | 27.5 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,050.0 | 19.00 | 4.10 | 2,032.7 | 155.7 | 11.1 | 30.6 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,100.0 | 20.00 | 4.10 | 2,079.8 | 172.3 | 12.3 | 33.8 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,150.0 | 21.00 | 4.10 | 2,126.6 | 189.8 | 13.6 | 37.3 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,200.0 | 22.00 | 4.10 | 2,173.2 | 208.1 | 14.9 | 40.9 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,212.9 | 22.26 | 4.10 | 2,185.1 | 212.9 | 15.2 | 41.8 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,250.0 | 22.26 | 4.10 | 2,219.5 | 226.9 | 16.3 | 44.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 22.26 | 4.10 | 2,265.7 | 245.8 | 17.6 | 48.3 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,350.0 | 22.26 | 4.10 | 2,312.0 | 264.7 | 19.0 | 52.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 22.26 | 4.10 | 2,358.3 | 283.6 | 20.3 | 55.7 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,450.0 | 22.26 | 4.10 | 2,404.6 | 302.5 | 21.7 | 59.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 22.26 | 4.10 | 2,450.8 | 321.4 | 23.0 | 63.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,550.0 | 22.26 | 4.10 | 2,497.1 | 340.3 | 24.4 | 66.8 | 0.00 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Database: | Hobbs | Local Co-ordinate Reference: | Site Jericho 7/12 Fed Com #521H |
| Company: | Mewbourne Oil Company | TVD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Project: | Eddy County, New Mexico NAD 83 | MD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Site: | Jericho 7/12 Fed Com #521H | North Reference: | Grid |
| Well: | Sec 08, T20S, R29E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | BHL: 500' FNL & 2566' FEL (Sec 12) | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 2,600.0 | 22.26 | 4.10 | 2,543.4 | 359.2 | 25.7 | 70.5 | 0.00 | 0.00 | 0.00 |
| 2,650.0 | 22.26 | 4.10 | 2,589.6 | 378.1 | 27.1 | 74.2 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 22.26 | 4.10 | 2,635.9 | 397.0 | 28.4 | 77.9 | 0.00 | 0.00 | 0.00 |
| 2,750.0 | 22.26 | 4.10 | 2,682.2 | 415.8 | 29.8 | 81.7 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 22.26 | 4.10 | 2,728.5 | 434.7 | 31.1 | 85.4 | 0.00 | 0.00 | 0.00 |
| 2,850.0 | 22.26 | 4.10 | 2,774.7 | 453.6 | 32.5 | 89.1 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 22.26 | 4.10 | 2,821.0 | 472.5 | 33.8 | 92.8 | 0.00 | 0.00 | 0.00 |
| 2,950.0 | 22.26 | 4.10 | 2,867.3 | 491.4 | 35.2 | 96.5 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 22.26 | 4.10 | 2,913.6 | 510.3 | 36.5 | 100.2 | 0.00 | 0.00 | 0.00 |
| 3,050.0 | 22.26 | 4.10 | 2,959.8 | 529.2 | 37.9 | 103.9 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 22.26 | 4.10 | 3,006.1 | 548.1 | 39.3 | 107.6 | 0.00 | 0.00 | 0.00 |
| 3,150.0 | 22.26 | 4.10 | 3,052.4 | 567.0 | 40.6 | 111.3 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 22.26 | 4.10 | 3,098.7 | 585.9 | 42.0 | 115.0 | 0.00 | 0.00 | 0.00 |
| 3,250.0 | 22.26 | 4.10 | 3,144.9 | 604.8 | 43.3 | 118.7 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 22.26 | 4.10 | 3,191.2 | 623.6 | 44.7 | 122.5 | 0.00 | 0.00 | 0.00 |
| 3,350.0 | 22.26 | 4.10 | 3,237.5 | 642.5 | 46.0 | 126.2 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 22.26 | 4.10 | 3,283.8 | 661.4 | 47.4 | 129.9 | 0.00 | 0.00 | 0.00 |
| 3,450.0 | 22.26 | 4.10 | 3,330.0 | 680.3 | 48.7 | 133.6 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 22.26 | 4.10 | 3,376.3 | 699.2 | 50.1 | 137.3 | 0.00 | 0.00 | 0.00 |
| 3,550.0 | 22.26 | 4.10 | 3,422.6 | 718.1 | 51.4 | 141.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 22.26 | 4.10 | 3,468.9 | 737.0 | 52.8 | 144.7 | 0.00 | 0.00 | 0.00 |
| 3,650.0 | 22.26 | 4.10 | 3,515.1 | 755.9 | 54.1 | 148.4 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 22.26 | 4.10 | 3,561.4 | 774.8 | 55.5 | 152.1 | 0.00 | 0.00 | 0.00 |
| 3,750.0 | 22.26 | 4.10 | 3,607.7 | 793.7 | 56.8 | 155.8 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 22.26 | 4.10 | 3,654.0 | 812.6 | 58.2 | 159.5 | 0.00 | 0.00 | 0.00 |
| 3,850.0 | 22.26 | 4.10 | 3,700.2 | 831.4 | 59.5 | 163.3 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 22.26 | 4.10 | 3,746.5 | 850.3 | 60.9 | 167.0 | 0.00 | 0.00 | 0.00 |
| 3,950.0 | 22.26 | 4.10 | 3,792.8 | 869.2 | 62.3 | 170.7 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 22.26 | 4.10 | 3,839.1 | 888.1 | 63.6 | 174.4 | 0.00 | 0.00 | 0.00 |
| 4,050.0 | 22.26 | 4.10 | 3,885.3 | 907.0 | 65.0 | 178.1 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 22.26 | 4.10 | 3,931.6 | 925.9 | 66.3 | 181.8 | 0.00 | 0.00 | 0.00 |
| 4,150.0 | 22.26 | 4.10 | 3,977.9 | 944.8 | 67.7 | 185.5 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 22.26 | 4.10 | 4,024.1 | 963.7 | 69.0 | 189.2 | 0.00 | 0.00 | 0.00 |
| 4,250.0 | 22.26 | 4.10 | 4,070.4 | 982.6 | 70.4 | 192.9 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 22.26 | 4.10 | 4,116.7 | 1,001.5 | 71.7 | 196.6 | 0.00 | 0.00 | 0.00 |
| 4,350.0 | 22.26 | 4.10 | 4,163.0 | 1,020.4 | 73.1 | 200.4 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 22.26 | 4.10 | 4,209.2 | 1,039.2 | 74.4 | 204.1 | 0.00 | 0.00 | 0.00 |
| 4,450.0 | 22.26 | 4.10 | 4,255.5 | 1,058.1 | 75.8 | 207.8 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 22.26 | 4.10 | 4,301.8 | 1,077.0 | 77.1 | 211.5 | 0.00 | 0.00 | 0.00 |
| 4,550.0 | 22.26 | 4.10 | 4,348.1 | 1,095.9 | 78.5 | 215.2 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 22.26 | 4.10 | 4,394.3 | 1,114.8 | 79.8 | 218.9 | 0.00 | 0.00 | 0.00 |
| 4,650.0 | 22.26 | 4.10 | 4,440.6 | 1,133.7 | 81.2 | 222.6 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 22.26 | 4.10 | 4,486.9 | 1,152.6 | 82.5 | 226.3 | 0.00 | 0.00 | 0.00 |
| 4,750.0 | 22.26 | 4.10 | 4,533.2 | 1,171.5 | 83.9 | 230.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 22.26 | 4.10 | 4,579.4 | 1,190.4 | 85.3 | 233.7 | 0.00 | 0.00 | 0.00 |
| 4,850.0 | 22.26 | 4.10 | 4,625.7 | 1,209.3 | 86.6 | 237.4 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 22.26 | 4.10 | 4,672.0 | 1,228.1 | 88.0 | 241.2 | 0.00 | 0.00 | 0.00 |
| 4,950.0 | 22.26 | 4.10 | 4,718.3 | 1,247.0 | 89.3 | 244.9 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 22.26 | 4.10 | 4,764.5 | 1,265.9 | 90.7 | 248.6 | 0.00 | 0.00 | 0.00 |
| 5,050.0 | 22.26 | 4.10 | 4,810.8 | 1,284.8 | 92.0 | 252.3 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 22.26 | 4.10 | 4,857.1 | 1,303.7 | 93.4 | 256.0 | 0.00 | 0.00 | 0.00 |
| 5,150.0 | 22.26 | 4.10 | 4,903.4 | 1,322.6 | 94.7 | 259.7 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 22.26 | 4.10 | 4,949.6 | 1,341.5 | 96.1 | 263.4 | 0.00 | 0.00 | 0.00 |
| 5,250.0 | 22.26 | 4.10 | 4,995.9 | 1,360.4 | 97.4 | 267.1 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Database: | Hobbs | Local Co-ordinate Reference: | Site Jericho 7/12 Fed Com #521H |
| Company: | Mewbourne Oil Company | TVD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Project: | Eddy County, New Mexico NAD 83 | MD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Site: | Jericho 7/12 Fed Com #521H | North Reference: | Grid |
| Well: | Sec 08, T20S, R29E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | BHL: 500' FNL & 2566' FEL (Sec 12) | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 5,300.0 | 22.26 | 4.10 | 5,042.2 | 1,379.3 | 98.8 | 270.8 | 0.00 | 0.00 | 0.00 | |
| 5,350.0 | 22.26 | 4.10 | 5,088.5 | 1,398.2 | 100.1 | 274.5 | 0.00 | 0.00 | 0.00 | |
| 5,400.0 | 22.26 | 4.10 | 5,134.7 | 1,417.1 | 101.5 | 278.2 | 0.00 | 0.00 | 0.00 | |
| 5,450.0 | 22.26 | 4.10 | 5,181.0 | 1,435.9 | 102.8 | 282.0 | 0.00 | 0.00 | 0.00 | |
| 5,500.0 | 22.26 | 4.10 | 5,227.3 | 1,454.8 | 104.2 | 285.7 | 0.00 | 0.00 | 0.00 | |
| 5,550.0 | 22.26 | 4.10 | 5,273.6 | 1,473.7 | 105.5 | 289.4 | 0.00 | 0.00 | 0.00 | |
| 5,600.0 | 22.26 | 4.10 | 5,319.8 | 1,492.6 | 106.9 | 293.1 | 0.00 | 0.00 | 0.00 | |
| 5,650.0 | 22.26 | 4.10 | 5,366.1 | 1,511.5 | 108.3 | 296.8 | 0.00 | 0.00 | 0.00 | |
| 5,700.0 | 22.26 | 4.10 | 5,412.4 | 1,530.4 | 109.6 | 300.5 | 0.00 | 0.00 | 0.00 | |
| 5,750.0 | 22.26 | 4.10 | 5,458.7 | 1,549.3 | 111.0 | 304.2 | 0.00 | 0.00 | 0.00 | |
| 5,800.0 | 22.26 | 4.10 | 5,504.9 | 1,568.2 | 112.3 | 307.9 | 0.00 | 0.00 | 0.00 | |
| 5,850.0 | 22.26 | 4.10 | 5,551.2 | 1,587.1 | 113.7 | 311.6 | 0.00 | 0.00 | 0.00 | |
| 5,900.0 | 22.26 | 4.10 | 5,597.5 | 1,606.0 | 115.0 | 315.3 | 0.00 | 0.00 | 0.00 | |
| 5,950.0 | 22.26 | 4.10 | 5,643.7 | 1,624.9 | 116.4 | 319.1 | 0.00 | 0.00 | 0.00 | |
| 6,000.0 | 22.26 | 4.10 | 5,690.0 | 1,643.7 | 117.7 | 322.8 | 0.00 | 0.00 | 0.00 | |
| 6,050.0 | 22.26 | 4.10 | 5,736.3 | 1,662.6 | 119.1 | 326.5 | 0.00 | 0.00 | 0.00 | |
| 6,100.0 | 22.26 | 4.10 | 5,782.6 | 1,681.5 | 120.4 | 330.2 | 0.00 | 0.00 | 0.00 | |
| 6,150.0 | 22.26 | 4.10 | 5,828.8 | 1,700.4 | 121.8 | 333.9 | 0.00 | 0.00 | 0.00 | |
| 6,200.0 | 22.26 | 4.10 | 5,875.1 | 1,719.3 | 123.1 | 337.6 | 0.00 | 0.00 | 0.00 | |
| 6,250.0 | 22.26 | 4.10 | 5,921.4 | 1,738.2 | 124.5 | 341.3 | 0.00 | 0.00 | 0.00 | |
| 6,300.0 | 22.26 | 4.10 | 5,967.7 | 1,757.1 | 125.8 | 345.0 | 0.00 | 0.00 | 0.00 | |
| 6,350.0 | 22.26 | 4.10 | 6,013.9 | 1,776.0 | 127.2 | 348.7 | 0.00 | 0.00 | 0.00 | |
| 6,400.0 | 22.26 | 4.10 | 6,060.2 | 1,794.9 | 128.5 | 352.4 | 0.00 | 0.00 | 0.00 | |
| 6,450.0 | 22.26 | 4.10 | 6,106.5 | 1,813.8 | 129.9 | 356.1 | 0.00 | 0.00 | 0.00 | |
| 6,500.0 | 22.26 | 4.10 | 6,152.8 | 1,832.7 | 131.3 | 359.9 | 0.00 | 0.00 | 0.00 | |
| 6,550.0 | 22.26 | 4.10 | 6,199.0 | 1,851.5 | 132.6 | 363.6 | 0.00 | 0.00 | 0.00 | |
| 6,562.8 | 22.26 | 4.10 | 6,210.9 | 1,856.4 | 133.0 | 364.5 | 0.00 | 0.00 | 0.00 | |
| 6,600.0 | 21.51 | 4.10 | 6,245.4 | 1,870.2 | 133.9 | 367.2 | 2.00 | -2.00 | 0.00 | |
| 6,650.0 | 20.51 | 4.10 | 6,292.1 | 1,888.1 | 135.2 | 370.7 | 2.00 | -2.00 | 0.00 | |
| 6,700.0 | 19.51 | 4.10 | 6,339.1 | 1,905.2 | 136.4 | 374.1 | 2.00 | -2.00 | 0.00 | |
| 6,750.0 | 18.51 | 4.10 | 6,386.3 | 1,921.4 | 137.6 | 377.3 | 2.00 | -2.00 | 0.00 | |
| 6,800.0 | 17.51 | 4.10 | 6,433.9 | 1,936.8 | 138.7 | 380.3 | 2.00 | -2.00 | 0.00 | |
| 6,850.0 | 16.51 | 4.10 | 6,481.7 | 1,951.4 | 139.8 | 383.2 | 2.00 | -2.00 | 0.00 | |
| 6,900.0 | 15.51 | 4.10 | 6,529.7 | 1,965.2 | 140.7 | 385.9 | 2.00 | -2.00 | 0.00 | |
| 6,950.0 | 14.51 | 4.10 | 6,578.0 | 1,978.1 | 141.7 | 388.4 | 2.00 | -2.00 | 0.00 | |
| 7,000.0 | 13.51 | 4.10 | 6,626.6 | 1,990.2 | 142.5 | 390.8 | 2.00 | -2.00 | 0.00 | |
| 7,050.0 | 12.51 | 4.10 | 6,675.3 | 2,001.4 | 143.3 | 393.0 | 2.00 | -2.00 | 0.00 | |
| 7,100.0 | 11.51 | 4.10 | 6,724.2 | 2,011.8 | 144.1 | 395.0 | 2.00 | -2.00 | 0.00 | |
| 7,150.0 | 10.51 | 4.10 | 6,773.2 | 2,021.3 | 144.8 | 396.9 | 2.00 | -2.00 | 0.00 | |
| 7,200.0 | 9.51 | 4.10 | 6,822.5 | 2,030.0 | 145.4 | 398.6 | 2.00 | -2.00 | 0.00 | |
| 7,250.0 | 8.51 | 4.10 | 6,871.9 | 2,037.8 | 145.9 | 400.1 | 2.00 | -2.00 | 0.00 | |
| 7,300.0 | 7.51 | 4.10 | 6,921.4 | 2,044.8 | 146.4 | 401.5 | 2.00 | -2.00 | 0.00 | |
| 7,350.0 | 6.51 | 4.10 | 6,971.0 | 2,050.9 | 146.9 | 402.7 | 2.00 | -2.00 | 0.00 | |
| 7,400.0 | 5.51 | 4.10 | 7,020.7 | 2,056.1 | 147.3 | 403.7 | 2.00 | -2.00 | 0.00 | |
| 7,450.0 | 4.51 | 4.10 | 7,070.5 | 2,060.4 | 147.6 | 404.6 | 2.00 | -2.00 | 0.00 | |
| 7,500.0 | 3.51 | 4.10 | 7,120.4 | 2,063.9 | 147.8 | 405.3 | 2.00 | -2.00 | 0.00 | |
| 7,550.0 | 2.51 | 4.10 | 7,170.3 | 2,066.5 | 148.0 | 405.8 | 2.00 | -2.00 | 0.00 | |
| 7,600.0 | 1.51 | 4.10 | 7,220.3 | 2,068.3 | 148.1 | 406.1 | 2.00 | -2.00 | 0.00 | |
| 7,650.0 | 0.51 | 4.10 | 7,270.3 | 2,069.2 | 148.2 | 406.3 | 2.00 | -2.00 | 0.00 | |
| 7,675.7 | 0.00 | 0.00 | 7,296.0 | 2,069.3 | 148.2 | 406.3 | 2.00 | -2.00 | 0.00 | |
| KOP: 500' FNL & 473' FWL (Sec 8) | | | | | | | | | | |
| 7,700.0 | 2.43 | 270.65 | 7,320.3 | 2,069.3 | 147.7 | 406.8 | 10.00 | 10.00 | 0.00 | |
| 7,750.0 | 7.43 | 270.65 | 7,370.1 | 2,069.4 | 143.4 | 411.0 | 10.00 | 10.00 | 0.00 | |
| 7,800.0 | 12.42 | 270.65 | 7,419.3 | 2,069.5 | 134.8 | 419.3 | 10.00 | 10.00 | 0.00 | |

Planning Report

| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Database: | Hobbs | Local Co-ordinate Reference: | Site Jericho 7/12 Fed Com #521H |
| Company: | Mewbourne Oil Company | TVD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Project: | Eddy County, New Mexico NAD 83 | MD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Site: | Jericho 7/12 Fed Com #521H | North Reference: | Grid |
| Well: | Sec 08, T20S, R29E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | BHL: 500' FNL & 2566' FEL (Sec 12) | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 7,850.0 | 17.42 | 270.65 | 7,467.6 | 2,069.6 | 121.9 | 431.8 | 10.00 | 10.00 | 0.00 |
| 7,900.0 | 22.42 | 270.65 | 7,514.6 | 2,069.8 | 104.9 | 448.2 | 10.00 | 10.00 | 0.00 |
| 7,950.0 | 27.42 | 270.65 | 7,560.0 | 2,070.0 | 83.8 | 468.6 | 10.00 | 10.00 | 0.00 |
| 8,000.0 | 32.42 | 270.65 | 7,603.3 | 2,070.3 | 58.9 | 492.7 | 10.00 | 10.00 | 0.00 |
| 8,050.0 | 37.41 | 270.65 | 7,644.3 | 2,070.6 | 30.3 | 520.4 | 10.00 | 10.00 | 0.00 |
| 8,100.0 | 42.41 | 270.65 | 7,682.6 | 2,071.0 | -1.8 | 551.4 | 10.00 | 10.00 | 0.00 |
| 8,150.0 | 47.41 | 270.65 | 7,718.0 | 2,071.4 | -37.1 | 585.5 | 10.00 | 10.00 | 0.00 |
| 8,200.0 | 52.41 | 270.65 | 7,750.2 | 2,071.8 | -75.3 | 622.5 | 10.00 | 10.00 | 0.00 |
| 8,250.0 | 57.40 | 270.65 | 7,778.9 | 2,072.3 | -116.2 | 662.0 | 10.00 | 10.00 | 0.00 |
| 8,300.0 | 62.40 | 270.65 | 7,804.0 | 2,072.8 | -159.4 | 703.9 | 10.00 | 10.00 | 0.00 |
| 8,350.0 | 67.40 | 270.65 | 7,825.2 | 2,073.3 | -204.7 | 747.6 | 10.00 | 10.00 | 0.00 |
| 8,400.0 | 72.40 | 270.65 | 7,842.4 | 2,073.8 | -251.6 | 793.0 | 10.00 | 10.00 | 0.00 |
| 8,450.0 | 77.40 | 270.65 | 7,855.4 | 2,074.4 | -299.9 | 839.7 | 10.00 | 10.00 | 0.00 |
| 8,500.0 | 82.39 | 270.65 | 7,864.2 | 2,074.9 | -349.1 | 887.3 | 10.00 | 10.00 | 0.00 |
| 8,550.0 | 87.39 | 270.65 | 7,868.6 | 2,075.5 | -398.9 | 935.4 | 10.00 | 10.00 | 0.00 |
| 8,575.7 | 89.96 | 270.65 | 7,869.2 | 2,075.8 | -424.6 | 960.3 | 10.00 | 10.00 | 0.00 |
| FTP/LP: 500' FNL & 100' FEL (Sec 7) | | | | | | | | | |
| 8,591.8 | 91.57 | 270.65 | 7,869.0 | 2,076.0 | -440.7 | 975.9 | 10.00 | 10.00 | 0.00 |
| 8,600.0 | 91.57 | 270.65 | 7,868.8 | 2,076.1 | -448.9 | 983.8 | 0.00 | 0.00 | 0.00 |
| 8,650.0 | 91.57 | 270.65 | 7,867.4 | 2,076.6 | -498.8 | 1,032.1 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 91.57 | 270.65 | 7,866.0 | 2,077.2 | -548.8 | 1,080.4 | 0.00 | 0.00 | 0.00 |
| 8,750.0 | 91.57 | 270.65 | 7,864.7 | 2,077.7 | -598.8 | 1,128.8 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 91.57 | 270.65 | 7,863.3 | 2,078.3 | -648.8 | 1,177.1 | 0.00 | 0.00 | 0.00 |
| 8,850.0 | 91.57 | 270.65 | 7,861.9 | 2,078.9 | -698.8 | 1,225.4 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 91.57 | 270.65 | 7,860.6 | 2,079.4 | -748.7 | 1,273.8 | 0.00 | 0.00 | 0.00 |
| 8,950.0 | 91.57 | 270.65 | 7,859.2 | 2,080.0 | -798.7 | 1,322.1 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 91.57 | 270.65 | 7,857.8 | 2,080.6 | -848.7 | 1,370.5 | 0.00 | 0.00 | 0.00 |
| 9,050.0 | 91.57 | 270.65 | 7,856.4 | 2,081.1 | -898.7 | 1,418.8 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 91.57 | 270.65 | 7,855.1 | 2,081.7 | -948.7 | 1,467.1 | 0.00 | 0.00 | 0.00 |
| 9,150.0 | 91.57 | 270.65 | 7,853.7 | 2,082.3 | -998.6 | 1,515.5 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 91.57 | 270.65 | 7,852.3 | 2,082.8 | -1,048.6 | 1,563.8 | 0.00 | 0.00 | 0.00 |
| 9,250.0 | 91.57 | 270.65 | 7,851.0 | 2,083.4 | -1,098.6 | 1,612.1 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 91.57 | 270.65 | 7,849.6 | 2,084.0 | -1,148.6 | 1,660.5 | 0.00 | 0.00 | 0.00 |
| 9,350.0 | 91.57 | 270.65 | 7,848.2 | 2,084.5 | -1,198.5 | 1,708.8 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 91.57 | 270.65 | 7,846.9 | 2,085.1 | -1,248.5 | 1,757.1 | 0.00 | 0.00 | 0.00 |
| 9,450.0 | 91.57 | 270.65 | 7,845.5 | 2,085.7 | -1,298.5 | 1,805.5 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 91.57 | 270.65 | 7,844.1 | 2,086.2 | -1,348.5 | 1,853.8 | 0.00 | 0.00 | 0.00 |
| 9,550.0 | 91.57 | 270.65 | 7,842.7 | 2,086.8 | -1,398.5 | 1,902.1 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 91.57 | 270.65 | 7,841.4 | 2,087.4 | -1,448.4 | 1,950.5 | 0.00 | 0.00 | 0.00 |
| 9,650.0 | 91.57 | 270.65 | 7,840.0 | 2,087.9 | -1,498.4 | 1,998.8 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 91.57 | 270.65 | 7,838.6 | 2,088.5 | -1,548.4 | 2,047.2 | 0.00 | 0.00 | 0.00 |
| 9,750.0 | 91.57 | 270.65 | 7,837.3 | 2,089.1 | -1,598.4 | 2,095.5 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 91.57 | 270.65 | 7,835.9 | 2,089.6 | -1,648.3 | 2,143.8 | 0.00 | 0.00 | 0.00 |
| 9,850.0 | 91.57 | 270.65 | 7,834.5 | 2,090.2 | -1,698.3 | 2,192.2 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 91.57 | 270.65 | 7,833.2 | 2,090.7 | -1,748.3 | 2,240.5 | 0.00 | 0.00 | 0.00 |
| 9,950.0 | 91.57 | 270.65 | 7,831.8 | 2,091.3 | -1,798.3 | 2,288.8 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 91.57 | 270.65 | 7,830.4 | 2,091.9 | -1,848.3 | 2,337.2 | 0.00 | 0.00 | 0.00 |
| 10,050.0 | 91.57 | 270.65 | 7,829.0 | 2,092.4 | -1,898.2 | 2,385.5 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 91.57 | 270.65 | 7,827.7 | 2,093.0 | -1,948.2 | 2,433.8 | 0.00 | 0.00 | 0.00 |
| 10,150.0 | 91.57 | 270.65 | 7,826.3 | 2,093.6 | -1,998.2 | 2,482.2 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 91.57 | 270.65 | 7,824.9 | 2,094.1 | -2,048.2 | 2,530.5 | 0.00 | 0.00 | 0.00 |
| 10,250.0 | 91.57 | 270.65 | 7,823.6 | 2,094.7 | -2,098.1 | 2,578.8 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 91.57 | 270.65 | 7,822.2 | 2,095.3 | -2,148.1 | 2,627.2 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Database: | Hobbs | Local Co-ordinate Reference: | Site Jericho 7/12 Fed Com #521H |
| Company: | Mewbourne Oil Company | TVD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Project: | Eddy County, New Mexico NAD 83 | MD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Site: | Jericho 7/12 Fed Com #521H | North Reference: | Grid |
| Well: | Sec 08, T20S, R29E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | BHL: 500' FNL & 2566' FEL (Sec 12) | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 10,350.0 | 91.57 | 270.65 | 7,820.8 | 2,095.8 | -2,198.1 | 2,675.5 | 0.00 | 0.00 | 0.00 | |
| 10,400.0 | 91.57 | 270.65 | 7,819.5 | 2,096.4 | -2,248.1 | 2,723.9 | 0.00 | 0.00 | 0.00 | |
| 10,450.0 | 91.57 | 270.65 | 7,818.1 | 2,097.0 | -2,298.1 | 2,772.2 | 0.00 | 0.00 | 0.00 | |
| 10,500.0 | 91.57 | 270.65 | 7,816.7 | 2,097.5 | -2,348.0 | 2,820.5 | 0.00 | 0.00 | 0.00 | |
| 10,550.0 | 91.57 | 270.65 | 7,815.3 | 2,098.1 | -2,398.0 | 2,868.9 | 0.00 | 0.00 | 0.00 | |
| 10,600.0 | 91.57 | 270.65 | 7,814.0 | 2,098.7 | -2,448.0 | 2,917.2 | 0.00 | 0.00 | 0.00 | |
| 10,650.0 | 91.57 | 270.65 | 7,812.6 | 2,099.2 | -2,498.0 | 2,965.5 | 0.00 | 0.00 | 0.00 | |
| 10,700.0 | 91.57 | 270.65 | 7,811.2 | 2,099.8 | -2,547.9 | 3,013.9 | 0.00 | 0.00 | 0.00 | |
| 10,750.0 | 91.57 | 270.65 | 7,809.9 | 2,100.4 | -2,597.9 | 3,062.2 | 0.00 | 0.00 | 0.00 | |
| 10,800.0 | 91.57 | 270.65 | 7,808.5 | 2,100.9 | -2,647.9 | 3,110.5 | 0.00 | 0.00 | 0.00 | |
| 10,850.0 | 91.57 | 270.65 | 7,807.1 | 2,101.5 | -2,697.9 | 3,158.9 | 0.00 | 0.00 | 0.00 | |
| 10,900.0 | 91.57 | 270.65 | 7,805.7 | 2,102.1 | -2,747.9 | 3,207.2 | 0.00 | 0.00 | 0.00 | |
| 10,950.0 | 91.57 | 270.65 | 7,804.4 | 2,102.6 | -2,797.8 | 3,255.5 | 0.00 | 0.00 | 0.00 | |
| 11,000.0 | 91.57 | 270.65 | 7,803.0 | 2,103.2 | -2,847.8 | 3,303.9 | 0.00 | 0.00 | 0.00 | |
| 11,050.0 | 91.57 | 270.65 | 7,801.6 | 2,103.7 | -2,897.8 | 3,352.2 | 0.00 | 0.00 | 0.00 | |
| 11,100.0 | 91.57 | 270.65 | 7,800.3 | 2,104.3 | -2,947.8 | 3,400.6 | 0.00 | 0.00 | 0.00 | |
| 11,118.0 | 91.57 | 270.65 | 7,799.8 | 2,104.5 | -2,965.8 | 3,418.0 | 0.00 | 0.00 | 0.00 | |
| PPP2: 465' FNL & 2315' FWL (Sec 7) | | | | | | | | | | |
| 11,150.0 | 91.57 | 270.65 | 7,798.9 | 2,104.9 | -2,997.8 | 3,448.9 | 0.00 | 0.00 | 0.00 | |
| 11,200.0 | 91.57 | 270.65 | 7,797.5 | 2,105.4 | -3,047.7 | 3,497.2 | 0.00 | 0.00 | 0.00 | |
| 11,250.0 | 91.57 | 270.65 | 7,796.2 | 2,106.0 | -3,097.7 | 3,545.6 | 0.00 | 0.00 | 0.00 | |
| 11,300.0 | 91.57 | 270.65 | 7,794.8 | 2,106.6 | -3,147.7 | 3,593.9 | 0.00 | 0.00 | 0.00 | |
| 11,350.0 | 91.57 | 270.65 | 7,793.4 | 2,107.1 | -3,197.7 | 3,642.2 | 0.00 | 0.00 | 0.00 | |
| 11,400.0 | 91.57 | 270.65 | 7,792.0 | 2,107.7 | -3,247.6 | 3,690.6 | 0.00 | 0.00 | 0.00 | |
| 11,450.0 | 91.57 | 270.65 | 7,790.7 | 2,108.3 | -3,297.6 | 3,738.9 | 0.00 | 0.00 | 0.00 | |
| 11,500.0 | 91.57 | 270.65 | 7,789.3 | 2,108.8 | -3,347.6 | 3,787.2 | 0.00 | 0.00 | 0.00 | |
| 11,550.0 | 91.57 | 270.65 | 7,787.9 | 2,109.4 | -3,397.6 | 3,835.6 | 0.00 | 0.00 | 0.00 | |
| 11,600.0 | 91.57 | 270.65 | 7,786.6 | 2,110.0 | -3,447.6 | 3,883.9 | 0.00 | 0.00 | 0.00 | |
| 11,650.0 | 91.57 | 270.65 | 7,785.2 | 2,110.5 | -3,497.5 | 3,932.2 | 0.00 | 0.00 | 0.00 | |
| 11,700.0 | 91.57 | 270.65 | 7,783.8 | 2,111.1 | -3,547.5 | 3,980.6 | 0.00 | 0.00 | 0.00 | |
| 11,750.0 | 91.57 | 270.65 | 7,782.5 | 2,111.7 | -3,597.5 | 4,028.9 | 0.00 | 0.00 | 0.00 | |
| 11,800.0 | 91.57 | 270.65 | 7,781.1 | 2,112.2 | -3,647.5 | 4,077.3 | 0.00 | 0.00 | 0.00 | |
| 11,850.0 | 91.57 | 270.65 | 7,779.7 | 2,112.8 | -3,697.4 | 4,125.6 | 0.00 | 0.00 | 0.00 | |
| 11,900.0 | 91.57 | 270.65 | 7,778.3 | 2,113.4 | -3,747.4 | 4,173.9 | 0.00 | 0.00 | 0.00 | |
| 11,950.0 | 91.57 | 270.65 | 7,777.0 | 2,113.9 | -3,797.4 | 4,222.3 | 0.00 | 0.00 | 0.00 | |
| 12,000.0 | 91.57 | 270.65 | 7,775.6 | 2,114.5 | -3,847.4 | 4,270.6 | 0.00 | 0.00 | 0.00 | |
| 12,050.0 | 91.57 | 270.65 | 7,774.2 | 2,115.1 | -3,897.4 | 4,318.9 | 0.00 | 0.00 | 0.00 | |
| 12,100.0 | 91.57 | 270.65 | 7,772.9 | 2,115.6 | -3,947.3 | 4,367.3 | 0.00 | 0.00 | 0.00 | |
| 12,150.0 | 91.57 | 270.65 | 7,771.5 | 2,116.2 | -3,997.3 | 4,415.6 | 0.00 | 0.00 | 0.00 | |
| 12,200.0 | 91.57 | 270.65 | 7,770.1 | 2,116.7 | -4,047.3 | 4,463.9 | 0.00 | 0.00 | 0.00 | |
| 12,250.0 | 91.57 | 270.65 | 7,768.8 | 2,117.3 | -4,097.3 | 4,512.3 | 0.00 | 0.00 | 0.00 | |
| 12,300.0 | 91.57 | 270.65 | 7,767.4 | 2,117.9 | -4,147.2 | 4,560.6 | 0.00 | 0.00 | 0.00 | |
| 12,350.0 | 91.57 | 270.65 | 7,766.0 | 2,118.4 | -4,197.2 | 4,608.9 | 0.00 | 0.00 | 0.00 | |
| 12,400.0 | 91.57 | 270.65 | 7,764.6 | 2,119.0 | -4,247.2 | 4,657.3 | 0.00 | 0.00 | 0.00 | |
| 12,450.0 | 91.57 | 270.65 | 7,763.3 | 2,119.6 | -4,297.2 | 4,705.6 | 0.00 | 0.00 | 0.00 | |
| 12,500.0 | 91.57 | 270.65 | 7,761.9 | 2,120.1 | -4,347.2 | 4,754.0 | 0.00 | 0.00 | 0.00 | |
| 12,550.0 | 91.57 | 270.65 | 7,760.5 | 2,120.7 | -4,397.1 | 4,802.3 | 0.00 | 0.00 | 0.00 | |
| 12,600.0 | 91.57 | 270.65 | 7,759.2 | 2,121.3 | -4,447.1 | 4,850.6 | 0.00 | 0.00 | 0.00 | |
| 12,650.0 | 91.57 | 270.65 | 7,757.8 | 2,121.8 | -4,497.1 | 4,899.0 | 0.00 | 0.00 | 0.00 | |
| 12,700.0 | 91.57 | 270.65 | 7,756.4 | 2,122.4 | -4,547.1 | 4,947.3 | 0.00 | 0.00 | 0.00 | |
| 12,750.0 | 91.57 | 270.65 | 7,755.1 | 2,123.0 | -4,597.0 | 4,995.6 | 0.00 | 0.00 | 0.00 | |
| 12,800.0 | 91.57 | 270.65 | 7,753.7 | 2,123.5 | -4,647.0 | 5,044.0 | 0.00 | 0.00 | 0.00 | |
| 12,850.0 | 91.57 | 270.65 | 7,752.3 | 2,124.1 | -4,697.0 | 5,092.3 | 0.00 | 0.00 | 0.00 | |
| 12,900.0 | 91.57 | 270.65 | 7,750.9 | 2,124.7 | -4,747.0 | 5,140.6 | 0.00 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Database: | Hobbs | Local Co-ordinate Reference: | Site Jericho 7/12 Fed Com #521H |
| Company: | Mewbourne Oil Company | TVD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Project: | Eddy County, New Mexico NAD 83 | MD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Site: | Jericho 7/12 Fed Com #521H | North Reference: | Grid |
| Well: | Sec 08, T20S, R29E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | BHL: 500' FNL & 2566' FEL (Sec 12) | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 12,950.0 | 91.57 | 270.65 | 7,749.6 | 2,125.2 | -4,797.0 | 5,189.0 | 0.00 | 0.00 | 0.00 | |
| 13,000.0 | 91.57 | 270.65 | 7,748.2 | 2,125.8 | -4,846.9 | 5,237.3 | 0.00 | 0.00 | 0.00 | |
| 13,050.0 | 91.57 | 270.65 | 7,746.8 | 2,126.4 | -4,896.9 | 5,285.6 | 0.00 | 0.00 | 0.00 | |
| 13,100.0 | 91.57 | 270.65 | 7,745.5 | 2,126.9 | -4,946.9 | 5,334.0 | 0.00 | 0.00 | 0.00 | |
| 13,150.0 | 91.57 | 270.65 | 7,744.1 | 2,127.5 | -4,996.9 | 5,382.3 | 0.00 | 0.00 | 0.00 | |
| 13,200.0 | 91.57 | 270.65 | 7,742.7 | 2,128.1 | -5,046.8 | 5,430.7 | 0.00 | 0.00 | 0.00 | |
| 13,250.0 | 91.57 | 270.65 | 7,741.4 | 2,128.6 | -5,096.8 | 5,479.0 | 0.00 | 0.00 | 0.00 | |
| 13,300.0 | 91.57 | 270.65 | 7,740.0 | 2,129.2 | -5,146.8 | 5,527.3 | 0.00 | 0.00 | 0.00 | |
| 13,350.0 | 91.57 | 270.65 | 7,738.6 | 2,129.7 | -5,196.8 | 5,575.7 | 0.00 | 0.00 | 0.00 | |
| 13,400.0 | 91.57 | 270.65 | 7,737.2 | 2,130.3 | -5,246.8 | 5,624.0 | 0.00 | 0.00 | 0.00 | |
| 13,433.5 | 91.57 | 270.65 | 7,736.3 | 2,130.7 | -5,280.2 | 5,656.3 | 0.00 | 0.00 | 0.00 | |
| PPP3: 539' FNL & 0' FEL (Sec 12) | | | | | | | | | | |
| 13,450.0 | 91.57 | 270.65 | 7,735.9 | 2,130.9 | -5,296.7 | 5,672.3 | 0.00 | 0.00 | 0.00 | |
| 13,500.0 | 91.57 | 270.65 | 7,734.5 | 2,131.4 | -5,346.7 | 5,720.7 | 0.00 | 0.00 | 0.00 | |
| 13,550.0 | 91.57 | 270.65 | 7,733.1 | 2,132.0 | -5,396.7 | 5,769.0 | 0.00 | 0.00 | 0.00 | |
| 13,600.0 | 91.57 | 270.65 | 7,731.8 | 2,132.6 | -5,446.7 | 5,817.3 | 0.00 | 0.00 | 0.00 | |
| 13,650.0 | 91.57 | 270.65 | 7,730.4 | 2,133.1 | -5,496.7 | 5,865.7 | 0.00 | 0.00 | 0.00 | |
| 13,700.0 | 91.57 | 270.65 | 7,729.0 | 2,133.7 | -5,546.6 | 5,914.0 | 0.00 | 0.00 | 0.00 | |
| 13,750.0 | 91.57 | 270.65 | 7,727.7 | 2,134.3 | -5,596.6 | 5,962.3 | 0.00 | 0.00 | 0.00 | |
| 13,800.0 | 91.57 | 270.65 | 7,726.3 | 2,134.8 | -5,646.6 | 6,010.7 | 0.00 | 0.00 | 0.00 | |
| 13,850.0 | 91.57 | 270.65 | 7,724.9 | 2,135.4 | -5,696.6 | 6,059.0 | 0.00 | 0.00 | 0.00 | |
| 13,900.0 | 91.57 | 270.65 | 7,723.5 | 2,136.0 | -5,746.5 | 6,107.3 | 0.00 | 0.00 | 0.00 | |
| 13,950.0 | 91.57 | 270.65 | 7,722.2 | 2,136.5 | -5,796.5 | 6,155.7 | 0.00 | 0.00 | 0.00 | |
| 14,000.0 | 91.57 | 270.65 | 7,720.8 | 2,137.1 | -5,846.5 | 6,204.0 | 0.00 | 0.00 | 0.00 | |
| 14,050.0 | 91.57 | 270.65 | 7,719.4 | 2,137.7 | -5,896.5 | 6,252.4 | 0.00 | 0.00 | 0.00 | |
| 14,100.0 | 91.57 | 270.65 | 7,718.1 | 2,138.2 | -5,946.5 | 6,300.7 | 0.00 | 0.00 | 0.00 | |
| 14,150.0 | 91.57 | 270.65 | 7,716.7 | 2,138.8 | -5,996.4 | 6,349.0 | 0.00 | 0.00 | 0.00 | |
| 14,200.0 | 91.57 | 270.65 | 7,715.3 | 2,139.4 | -6,046.4 | 6,397.4 | 0.00 | 0.00 | 0.00 | |
| 14,250.0 | 91.57 | 270.65 | 7,714.0 | 2,139.9 | -6,096.4 | 6,445.7 | 0.00 | 0.00 | 0.00 | |
| 14,300.0 | 91.57 | 270.65 | 7,712.6 | 2,140.5 | -6,146.4 | 6,494.0 | 0.00 | 0.00 | 0.00 | |
| 14,350.0 | 91.57 | 270.65 | 7,711.2 | 2,141.0 | -6,196.3 | 6,542.4 | 0.00 | 0.00 | 0.00 | |
| 14,400.0 | 91.57 | 270.65 | 7,709.8 | 2,141.6 | -6,246.3 | 6,590.7 | 0.00 | 0.00 | 0.00 | |
| 14,450.0 | 91.57 | 270.65 | 7,708.5 | 2,142.2 | -6,296.3 | 6,639.0 | 0.00 | 0.00 | 0.00 | |
| 14,500.0 | 91.57 | 270.65 | 7,707.1 | 2,142.7 | -6,346.3 | 6,687.4 | 0.00 | 0.00 | 0.00 | |
| 14,550.0 | 91.57 | 270.65 | 7,705.7 | 2,143.3 | -6,396.3 | 6,735.7 | 0.00 | 0.00 | 0.00 | |
| 14,600.0 | 91.57 | 270.65 | 7,704.4 | 2,143.9 | -6,446.2 | 6,784.0 | 0.00 | 0.00 | 0.00 | |
| 14,650.0 | 91.57 | 270.65 | 7,703.0 | 2,144.4 | -6,496.2 | 6,832.4 | 0.00 | 0.00 | 0.00 | |
| 14,700.0 | 91.57 | 270.65 | 7,701.6 | 2,145.0 | -6,546.2 | 6,880.7 | 0.00 | 0.00 | 0.00 | |
| 14,750.0 | 91.57 | 270.65 | 7,700.2 | 2,145.6 | -6,596.2 | 6,929.1 | 0.00 | 0.00 | 0.00 | |
| 14,800.0 | 91.57 | 270.65 | 7,698.9 | 2,146.1 | -6,646.1 | 6,977.4 | 0.00 | 0.00 | 0.00 | |
| 14,850.0 | 91.57 | 270.65 | 7,697.5 | 2,146.7 | -6,696.1 | 7,025.7 | 0.00 | 0.00 | 0.00 | |
| 14,900.0 | 91.57 | 270.65 | 7,696.1 | 2,147.3 | -6,746.1 | 7,074.1 | 0.00 | 0.00 | 0.00 | |
| 14,950.0 | 91.57 | 270.65 | 7,694.8 | 2,147.8 | -6,796.1 | 7,122.4 | 0.00 | 0.00 | 0.00 | |
| 15,000.0 | 91.57 | 270.65 | 7,693.4 | 2,148.4 | -6,846.1 | 7,170.7 | 0.00 | 0.00 | 0.00 | |
| 15,050.0 | 91.57 | 270.65 | 7,692.0 | 2,149.0 | -6,896.0 | 7,219.1 | 0.00 | 0.00 | 0.00 | |
| 15,100.0 | 91.57 | 270.65 | 7,690.7 | 2,149.5 | -6,946.0 | 7,267.4 | 0.00 | 0.00 | 0.00 | |
| 15,150.0 | 91.57 | 270.65 | 7,689.3 | 2,150.1 | -6,996.0 | 7,315.7 | 0.00 | 0.00 | 0.00 | |
| 15,200.0 | 91.57 | 270.65 | 7,687.9 | 2,150.7 | -7,046.0 | 7,364.1 | 0.00 | 0.00 | 0.00 | |
| 15,250.0 | 91.57 | 270.65 | 7,686.5 | 2,151.2 | -7,095.9 | 7,412.4 | 0.00 | 0.00 | 0.00 | |
| 15,300.0 | 91.57 | 270.65 | 7,685.2 | 2,151.8 | -7,145.9 | 7,460.7 | 0.00 | 0.00 | 0.00 | |
| 15,350.0 | 91.57 | 270.65 | 7,683.8 | 2,152.4 | -7,195.9 | 7,509.1 | 0.00 | 0.00 | 0.00 | |
| 15,400.0 | 91.57 | 270.65 | 7,682.4 | 2,152.9 | -7,245.9 | 7,557.4 | 0.00 | 0.00 | 0.00 | |
| 15,450.0 | 91.57 | 270.65 | 7,681.1 | 2,153.5 | -7,295.9 | 7,605.8 | 0.00 | 0.00 | 0.00 | |

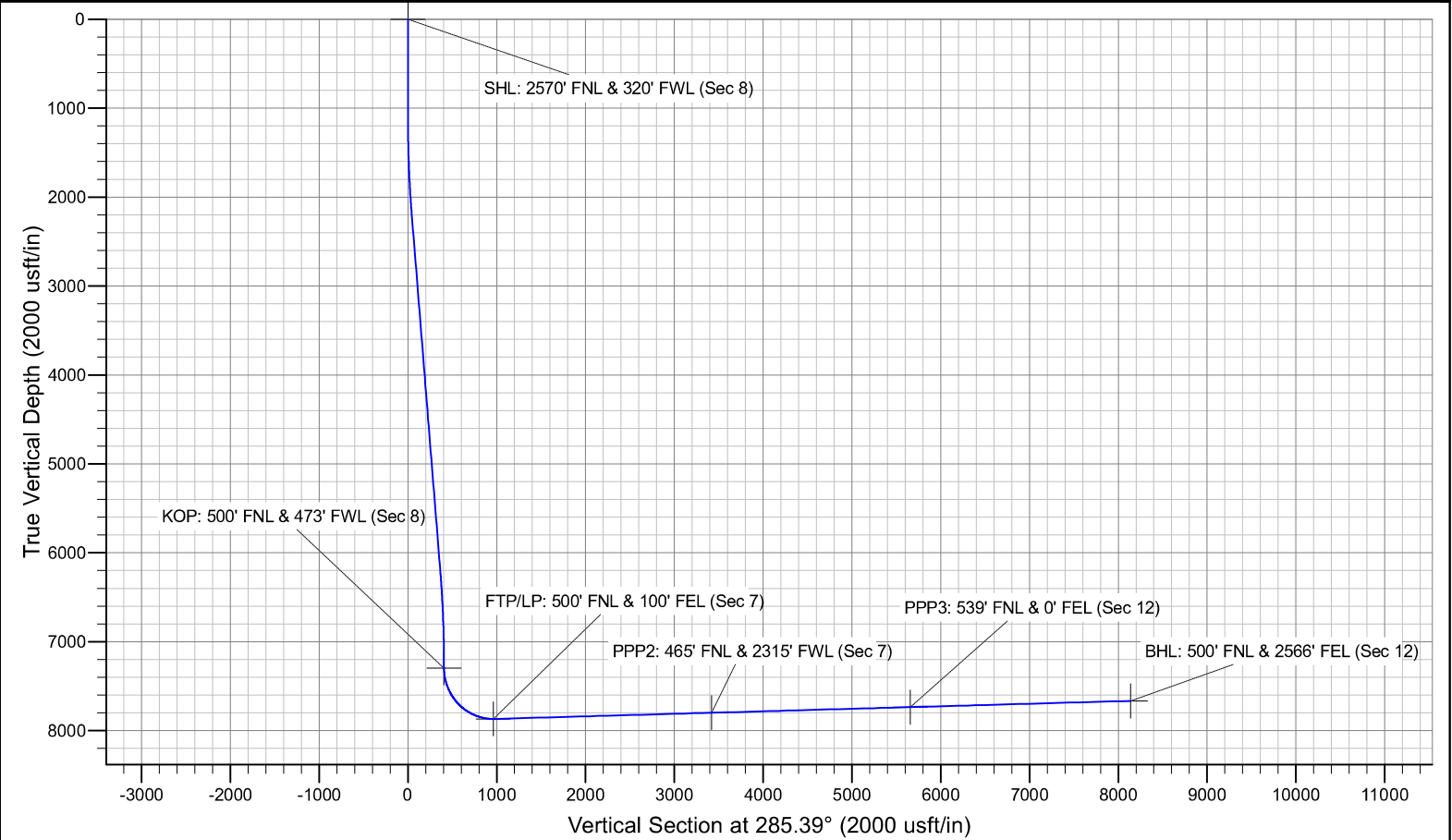
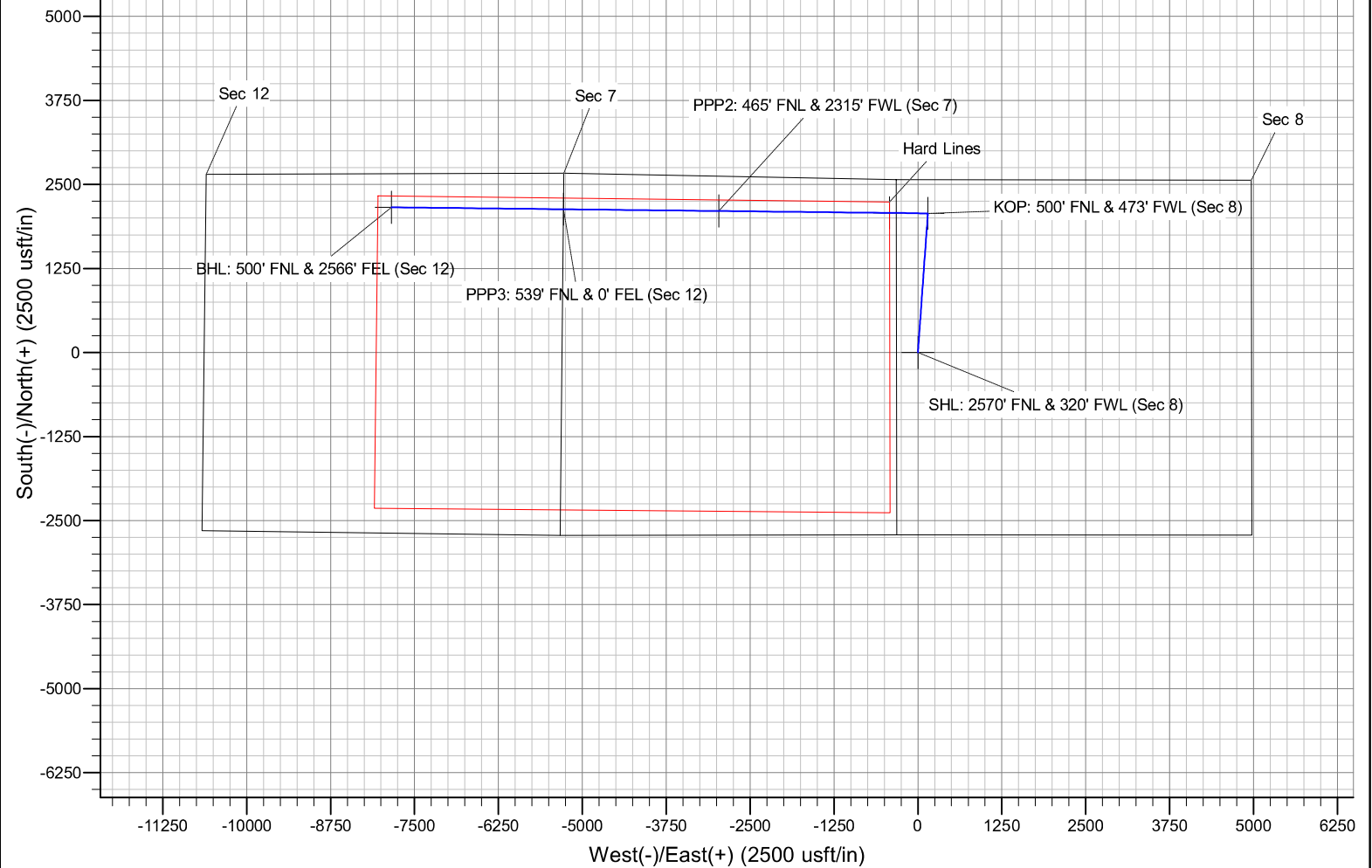
Planning Report

| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Database: | Hobbs | Local Co-ordinate Reference: | Site Jericho 7/12 Fed Com #521H |
| Company: | Mewbourne Oil Company | TVD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Project: | Eddy County, New Mexico NAD 83 | MD Reference: | WELL @ 3302.0usft (Original Well Elev) |
| Site: | Jericho 7/12 Fed Com #521H | North Reference: | Grid |
| Well: | Sec 08, T20S, R29E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | BHL: 500' FNL & 2566' FEL (Sec 12) | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 15,500.0 | 91.57 | 270.65 | 7,679.7 | 2,154.0 | -7,345.8 | 7,654.1 | 0.00 | 0.00 | 0.00 | |
| 15,550.0 | 91.57 | 270.65 | 7,678.3 | 2,154.6 | -7,395.8 | 7,702.4 | 0.00 | 0.00 | 0.00 | |
| 15,600.0 | 91.57 | 270.65 | 7,677.0 | 2,155.2 | -7,445.8 | 7,750.8 | 0.00 | 0.00 | 0.00 | |
| 15,650.0 | 91.57 | 270.65 | 7,675.6 | 2,155.7 | -7,495.8 | 7,799.1 | 0.00 | 0.00 | 0.00 | |
| 15,700.0 | 91.57 | 270.65 | 7,674.2 | 2,156.3 | -7,545.8 | 7,847.4 | 0.00 | 0.00 | 0.00 | |
| 15,750.0 | 91.57 | 270.65 | 7,672.8 | 2,156.9 | -7,595.7 | 7,895.8 | 0.00 | 0.00 | 0.00 | |
| 15,800.0 | 91.57 | 270.65 | 7,671.5 | 2,157.4 | -7,645.7 | 7,944.1 | 0.00 | 0.00 | 0.00 | |
| 15,850.0 | 91.57 | 270.65 | 7,670.1 | 2,158.0 | -7,695.7 | 7,992.4 | 0.00 | 0.00 | 0.00 | |
| 15,900.0 | 91.57 | 270.65 | 7,668.7 | 2,158.6 | -7,745.7 | 8,040.8 | 0.00 | 0.00 | 0.00 | |
| 15,950.0 | 91.57 | 270.65 | 7,667.4 | 2,159.1 | -7,795.6 | 8,089.1 | 0.00 | 0.00 | 0.00 | |
| 15,999.9 | 91.57 | 270.65 | 7,666.0 | 2,159.7 | -7,845.5 | 8,137.3 | 0.00 | 0.00 | 0.00 | |
| BHL: 500' FNL & 2566' FEL (Sec 12) | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------|--------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| SHL: 2570' FNL & 320' F - plan hits target center - Point | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 577,802.70 | 611,739.00 | 32.5882253 | -104.1047519 | |
| KOP: 500' FNL & 473' F - plan hits target center - Point | 0.00 | 0.00 | 7,296.0 | 2,069.3 | 148.2 | 579,872.00 | 611,887.20 | 32.5939123 | -104.1042562 | |
| BHL: 500' FNL & 2566' F - plan hits target center - Point | 0.00 | 0.00 | 7,666.0 | 2,159.7 | -7,845.5 | 579,962.40 | 603,893.50 | 32.5942055 | -104.1302113 | |
| PPP3: 539' FNL & 0' FEI - plan hits target center - Point | 0.00 | 0.00 | 7,736.3 | 2,130.7 | -5,280.2 | 579,933.39 | 606,458.80 | 32.5941120 | -104.1218819 | |
| PPP2: 465' FNL & 2315' - plan hits target center - Point | 0.00 | 0.00 | 7,799.8 | 2,104.5 | -2,965.8 | 579,907.22 | 608,773.20 | 32.5940272 | -104.1143672 | |
| FTP/LP: 500' FNL & 100' - plan hits target center - Point | 0.00 | 0.00 | 7,869.2 | 2,075.8 | -424.6 | 579,878.48 | 611,314.40 | 32.5939335 | -104.1061161 | |

Jericho 7/12 Fed Com #521H



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| |
|--|
| OPERATOR'S NAME: MEWBOURNE OIL COMPANY |
| WELL NAME & NO.: JERICOHO 7/12 FED COM 521H |
| APD ID: 10400105757 |
| LOCATION: Section 8, T.20 S., R.29 E. 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 type="radio"/> Medium | <input checked="" type="radio"/> High | <input type="radio"/> Critical |
| Wellhead | <input type="radio"/> Conventional | <input type="radio"/> Multibowl | <input checked="" 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 **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING PROGRAM

Casing Design A

Note: The surface casing set depth was adjusted in accordance with the recommendation of the BLM geologist. *“The operator proposes to set surface casing at 407 ft. BLM recommends setting surface casing 25 ft. above TOS, 480 ft.”*

1. The **18-5/8-inch** surface casing shall be set at approximately **480 ft.** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, below usable water and above the salt) 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 psi 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 **1,100 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**.
 - ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Note: The 2nd intermediate casing set depth was adjusted in accordance with the recommendation of the BLM geologist. *“The operator proposes to set second intermediate casing at 3075 ft. BLM recommends the base of the Capitan Reef, 2765 ft. to avoid the potential lost circulation”*

3. The **9-5/8** inch 2nd intermediate casing shall be set in a competent bed at approximately **2,765 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** above Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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**.

Option 2 (Two-stage): Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

- b. **Second stage above DV tool:** Cement should tie-back at least **50 feet** above Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. 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**.
- ❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.
4. Operator has proposed to set **7 in.** production casing at approximately **7,675 ft.** (7,296 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:
- Cement should tie-back **at least 200 feet** into the previous casing. 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 **4-1/2 in.** production liner is:
- Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

Casing Design B

Note: The surface casing set depth was adjusted in accordance with the recommendation of the BLM geologist. *“The operator proposes to set surface casing at 407 ft. BLM recommends setting surface casing 25 ft. above TOS, 480 ft.”*

1. The **18-5/8-inch** surface casing shall be set at approximately **480 ft.** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, below usable water and above the salt) 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 psi 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 **1,100 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.**
- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Note: The 2nd intermediate casing set depth was adjusted in accordance with the recommendation of the BLM geologist. *“The operator proposes to set second intermediate casing at 3075 ft. BLM recommends the base of the Capitan Reef, 2765 ft. to avoid the potential lost circulation”*

3. The **9-5/8** inch 2nd intermediate casing shall be set in a competent bed at approximately **2,765 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** above Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. 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.**

Option 2 (Two-stage): Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. **Second stage above DV tool:** Cement should tie-back at least **50 feet** above Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. 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.**
- ❖ **Special Capitan Reef Requirement:** Ensure freshwater based mud is used across the Capitan interval.
4. Operator has proposed to set **7 in.** production casing at approximately **8,575 ft.** (7,869 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:

- Cement should tie-back **at least 200 feet** into the previous casing. 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 **4-1/2 in.** production liner is:
- Cement should tie-back **at least 100 feet** into previous casing string. 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. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**. 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 the **title 43 CFR 3172.6(b)(9)** 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.
- The operator will submit an as-drilled survey well plat of the well completion, including but not limited to those specified in 43 CFR 3171 and 3172.
- 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 10/22/2025

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: JERICHO 7/12 FED COM

Well Number: 521H

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

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: DRILLING

Waste content description: DRILL CUTTINGS

Amount of waste: 940 barrels

Waste disposal frequency : One Time Only

Safe containment description: DRILL CUTTINGS WILL BE PROPERLY CONTAINED IN STEEL TANKS (20 YARD ROLL OFF BINS.)

Safe containmant attachment:

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

Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec 27, T20S, R32E

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? N

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

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

Is at least 50% of the cuttings area in cut?

Cuttings area liner

Cuttings area liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: JERICO 7/12 FED COM

Well Number: 521H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

JERICO_7_12_FED_COM_521H_WellSiteLayout_20250630144817.pdf

JERICO_7_12_FED_COM_521H_WellSiteLayout_20250926143216.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: JERICO 7/12 FED COM 521 523 525 527

Multiple Well Pad Number: 4

Recontouring

JERICO_7_12_FED_COM_521H_InterimReclamationMap_20250630144826.pdf

JERICO_7_12_FED_COM_521H_InterimReclamationMap_20250926143225.pdf

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance (acres): 4

Well pad interim reclamation (acres): 1

Well pad long term disturbance (acres): 3

Road proposed disturbance (acres): 0.02

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0

Powerline proposed disturbance (acres): 0.58

Powerline interim reclamation (acres): 0

Powerline long term disturbance (acres): 0

Pipeline proposed disturbance (acres): 0

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance (acres): 0

Other proposed disturbance (acres): 0.58

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 5.18

Total interim reclamation: 1

Total long term disturbance: 3

Disturbance Comments: In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the

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 534540

ACKNOWLEDGMENTS

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 534540 |
| | 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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**State of New Mexico
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1220 S. St Francis Dr.
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CONDITIONS

Action 534540

CONDITIONS

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CONDITIONS

| Created By | Condition | Condition Date |
|-------------|---|----------------|
| mleal | Cement is required to circulate on both surface and intermediate1 strings of casing. | 12/12/2025 |
| mleal | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. | 12/12/2025 |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement. | 1/20/2026 |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet. | 1/20/2026 |
| 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. | 1/20/2026 |
| 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. | 1/20/2026 |
| ward.rikala | This well is within the Capitan Reef. The first intermediate casing string shall be sat 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. | 1/20/2026 |