AFMSS

U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed:

APD ID:	Well Status:
APD Received Date:	Well Name:
Operator:	Well Number:

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 2 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 4 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 5 file(s)
  -- Casing Design Assumptions and Worksheet(s): 8 file(s)
  -- Hydrogen sulfide drilling operations plan: 2 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 4 file(s)
  -- Other Facets: 4 file(s)
  -- Other Variances: 4 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 2 file(s)
  -- New Road Map: 1 file(s)
  -- Attach Well map: 2 file(s)
  -- Production Facilities map: 2 file(s)
  -- Water source and transportation map: 2 file(s)
  -- Construction Materials source location attachment: 2 file(s)
  -- Well Site Layout Diagram: 1 file(s)
  -- Recontouring attachment: 1 file(s)

- PWD Report
- PWD Attachments
  -- None

CONFIDENTIAL

- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(October 2024)

*Please refer to most recently approved NOI appended to this application updated changes to well

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

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-025-56143

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory
CORBIN;BONE SPRING, SOUTH

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface
At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

16. No of acres in lease

17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth

20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

22. Approximate date work will start*

23. Estimated duration

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

Name *(Printed/Typed)*

Date

Title

Approved by *(Signature)*

Name *(Printed/Typed)*

Date

Title

Office

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

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

APPROVED WITH CONDITIONS

Approval Date: 12/08/2025

(Continued on page 2)

*(Instructions on page 2)

Confidential

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Released to Imaging: 4/22/2026 4:02:43 PM

Approval Date: 12/08/2025

Confidential

Additional Operator Remarks

Location of Well

0. SHL: SESW / 525 FSL / 1830 FEL / TWSP: 18S / RANGE: 33E / SECTION: 18 / LAT: 32.7416296 / LONG: -103.6997969 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 500 FEL / TWSP: 18S / RANGE: 33E / SECTION: 19 / LAT: 32.7399138 / LONG: -103.6954688 (TVD: 9548 feet, MD: 9997 feet)

PPP: SENE / 1220 FNL / 500 FEL / TWSP: 18S / RANGE: 33E / SECTION: 19 / LAT: 32.7365611 / LONG: -103.6954625 (TVD: 9572 feet, MD: 11217 feet)

BHL: SESE / 100 FSL / 500 FEL / TWSP: 18S / RANGE: 33E / SECTION: 30 / LAT: 32.7114441 / LONG: -103.6954154 (TVD: 9754 feet, MD: 20357 feet)

BLM Point of Contact

Name: PAMELLA HERNANDEZ
Title: LIE
Phone: (575) 234-5954
Email: PHERNANDEZ@BLM.GOV

CONFIDENTIAL

PECOS DISTRICT

SURFACE USE

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM000093, NMLC0069276, NMNM104050, NMNM104049, NMLC0069420
COUNTY:	Lea County, New Mexico

Wells:

East Cactus Jack 18-17 & Mysterio 30-19 Fed Com Well Pad

MYSTERIO 19/30 FED 525H

MYSTERIO 19/30 FED 527H

CACTUS JACK 18/7 FED COM 525H

CACTUS JACK 18/7 FED COM 527H

West Cactus Jack 18-17 & Mysterio 30-19 Fed Com Well Pad

MYSTERIO 19/30 FED 521H

MYSTERIO 19/30 FED 523H

CACTUS JACK 18/7 FED COM 521H

CACTUS JACK 18/7 FED COM 523H

Approval Date: 12/08/2025

TABLE OF CONTENTS

1. GENERAL PROVISIONS 3
1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES 3
1.2. RANGELAND RESOURCES 4
1.2.1. Cattleguards 4
1.2.2. Fence Requirement 4
1.2.3. Livestock Watering Requirement 4
1.3. NOXIOUS WEEDS 4
1.3.1 African Rue (Peganum harmala) 5
1.4. LIGHT POLLUTION 5
1.4.1. Downfacing 5
1.4.2. Shielding 5
1.4.3. Lighting Color 5
2. SPECIAL REQUIREMENTS 5
2.1. WATERSHED 5
2.1.1. Tank Battery 6
2.1.2. Buried/Surface Line(s) 6
2.1.3. Electric Line(s) 6
2.1.4. Temporary Use Fresh Water Frac Line(s) 6
2.3 WILDLIFE 6
2.3.1 Lesser Prairie Chicken 6
2.3.3 Dunes Sagebrush Lizard 7
2.4 VISUAL RESOURCE MANAGEMENT 7
2.5.1 VRM IV 7
3. CONSTRUCTION REQUIRENMENTS 8
3.1 CONSTRUCTION NOTIFICATION 8
3.2 TOPSOIL 8
3.3 CLOSED LOOP SYSTEM 8
3.4 FEDERAL MINERAL PIT 8
3.5 WELL PAD & SURFACING 8
3.6 EXCLOSURE FENCING (CELLARS & PITS) 8
3.7 ON LEASE ACESS ROAD 9
3.7.1 Road Width 9
3.7.2 Surfacing 9
3.7.3 Crowning 9

3.7.4 Ditching 9
3.7.5 Turnouts 9
3.7.6 Drainage 9
3.7.7 Public Access 10
4. PIPELINES 12
4.1 BURIED PIPELINES 12
4.2 OVERHEAD ELECTRIC LINES 14
4.3 RANGLAND MITIGATION FOR PIPELINES 15
4.5.1 Fence Requirement 15
4.5.2 Cattleguards 15
4.5.3 Livestock Watering Requirement 15
5. PRODUCTION (POST DRILLING) 16
5.1 WELL STRUCTURES & FACILITIES 16
5.1.1 Placement of Production Facilities 16
5.1.2 Exclosure Netting (Open-top Tanks) 16
5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening 16
5.1.4. Open-Vent Exhaust Stack Exclosures 16
5.1.5. Containment Structures 16
6. RECLAMATION 16
6.1 ROAD AND SITE RECLAMATION 17
6.2 EROSION CONTROL 17
6.3 INTERIM RECLAMATION 17
6.4 FINAL ABANDONMENT & RECLAMATION 17
6.5 SEEDING TECHNIQUES 18
6.6 SOIL SPECIFIC SEED MIXTURE 18

1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any

decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. **Cattleguards**

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. **Fence Requirement**

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. **Livestock Watering Requirement**

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The

operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (Peganum harmala)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. **Downfacing**

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. **Shielding**

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. **Lighting Color**

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

2.1.1. **Tank Battery**

Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hourproduction, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity). Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.1.2. **Buried/Surface Line(s)**

When crossing ephemeral drainages, the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons must be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences must be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars must be placed within the corridor to divert and dissipate surface runoff. A pipeline access road is not permitted to cross ephemeral drainages. Traffic must be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

2.1.3. **Electric Line(s)**

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole must not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that does not promote further erosion.

2.1.4. **Temporary Use Fresh Water Frac Line(s)**

Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary pipeline into a permanent pipeline.

2.3 WILDLIFE

2.3.1 **Lesser Prairie Chicken**

2.3.1.1 Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

2.3.1.2 Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC

Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

2.3.1.3 Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov.

2.3.3 **Dunes Sagebrush Lizard**

- Pre-construction contact with a BLM wildlife biologist is required within 5 days before any ground disturbing activities associated with the project occurs.
- Successful completion of the BLM Trench Stipulation Workshop is required for a non-agency person to be approved as a monitor.
- Any trench left open for (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, an agency approved monitor shall walk the entire length of the open trench and remove all trapped vertebrates. The bottom surface of the trench will be disturbed a minimum of 2 inches in order to arouse any buried vertebrates. All vertebrates will be released alive at least 100 yards from the trench.
- For trenches left open for eight (8) hours or more the following requirements apply:
    - Earthen escape ramps and/or structures (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Metal structures will not be authorized. Options will be discussed in detail at the required Trench Stipulation Workshop.
    - One approved monitor shall be required to survey up to three miles of trench between the hours of 11 AM-2 PM. A daily report (consolidate if there is more than one monitor) on the vertebrates found and removed from the trench shall be provided to the BLM (email/fax is acceptable) the following morning.
    - Prior to backfilling of the trench all structures used as escape ramps will be removed, and the bottom surface of the trench will be disturbed a minimum of 2 inches in order to arouse any buried vertebrates. All vertebrates will be released alive a minimum of 100 yards from the trench.
- This stipulation shall apply to the entire length of the project in the DSL habitat polygon regardless of land ownership or CCA/CCAA enrollment status.
- A project closeout will be required within three business days of the completion of the project.

2.3.1. **Raptors Nest Mitigation**

- A BLM Wildlife Biologist must be contacted by the operator prior to construction activities to determine if the raptor nest is active.
- Raptor nests on special, natural habitat features, such as trees, large brush, cliff faces and escarpments, will be protected by not allowing surface disturbance within up to 200 meters of nests or by delaying activity for up to 90 days, or a combination of both. Exceptions to this requirement for raptor nests will be considered if the nests expected to be disturbed are inactive, the proposed activity is of short duration (e.g. habitat enhancement projects, fences, pipelines), and will not result in continuing activity in proximity to the nest.
- Exhaust noise from pump jack engines, or other equipment, must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

2.4 VISUAL RESOURCE MANAGEMENT

2.5.1 **VRM IV**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

AND/OR

All above ground structures including but not limited to pumpjacks, storage tanks, production equipment, etc. must be shorter than 8 feet.

3. CONSTRUCTION REQUIRENMENTS

3.1 CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

Approval Date: 12/08/2025

3.7 ON LEASE ACESS ROAD

3.7.1 **Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

3.7.2 **Surfacing**

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements will be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

3.7.3 **Crowning**

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

3.7.4 **Ditching**

Ditching shall be required on both sides of the road.

3.7.5 **Turnouts**

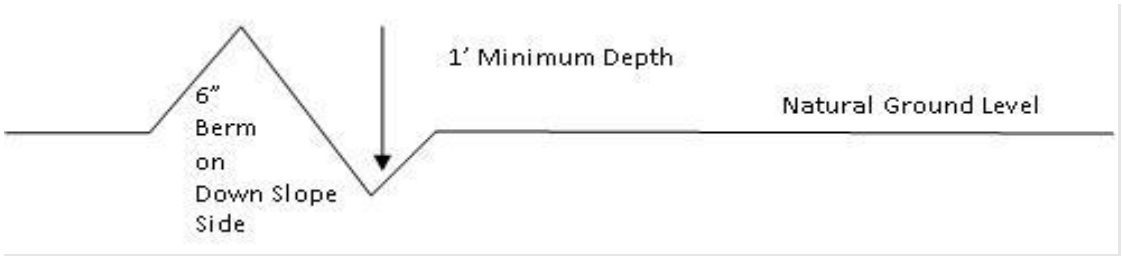
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, leadoff ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$\text{400 foot road with 4\% road slope: } \frac{400'}{4} + 100' = 200' \text{ lead-off ditch interval}$$

3.7.7 **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Approval Date: 12/08/2025

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

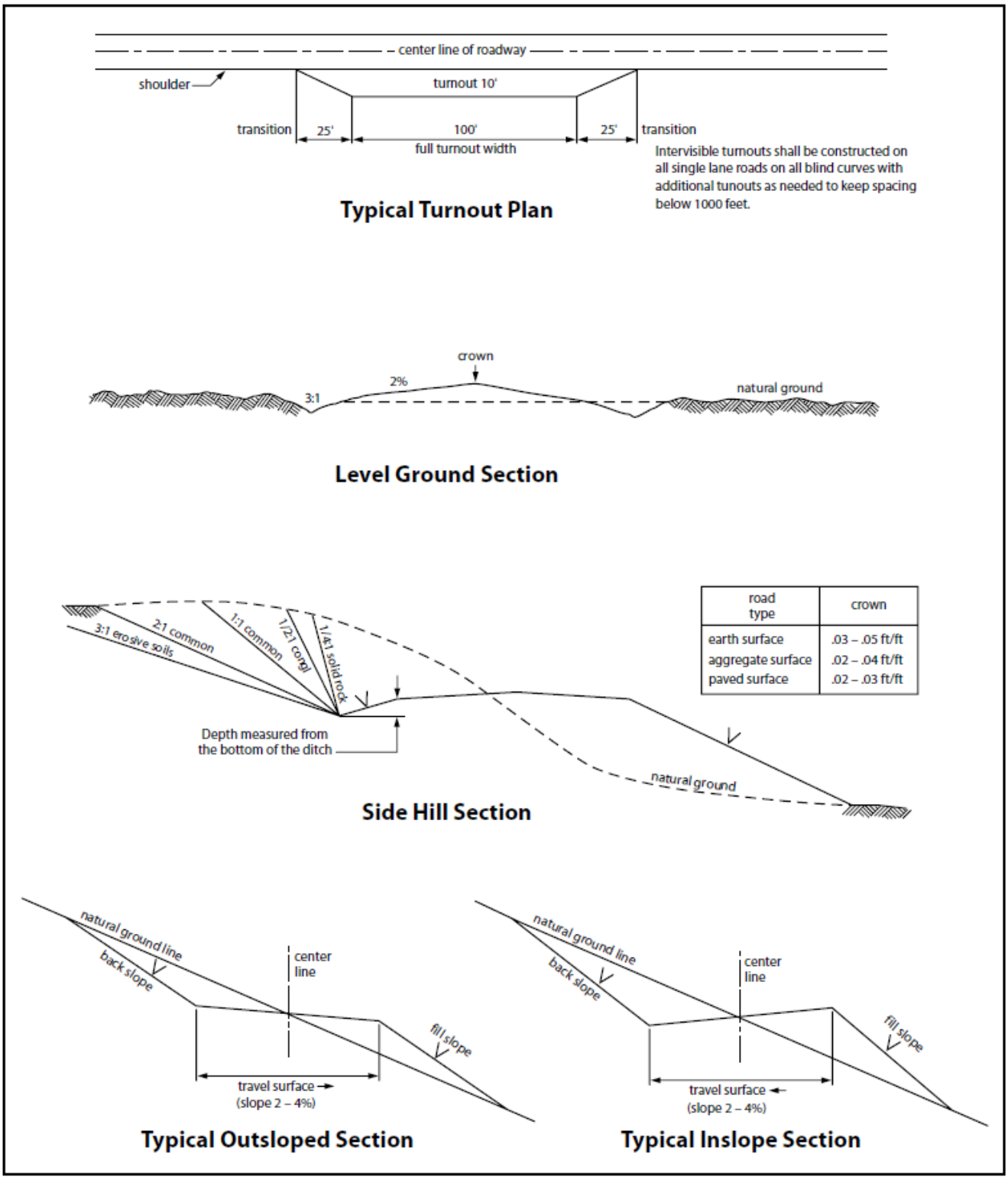


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 12/08/2025

4. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.1 BURIED PIPELINES

A copy of the application (APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:

   - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)

   - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

   - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately **36** inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.

10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.

12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

13. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

4.2 OVERHEAD ELECTRIC LINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any

improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
    - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

4.3 RANGLAND MITIGATION FOR PIPELINES

4.5.1 **Fence Requirement**

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 **Cattleguards**

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

4.5.3 **Livestock Watering Requirement**

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 **Placement of Production Facilities**

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

5.1.2 **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12”, unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast, and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture for LPC #2 Sand/Shinnery Sites

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

*Please refer to most recently approved NOI appended to this application updated changes to well

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	MYSTERIO 19/30 FED 527H
APD ID:	10400105423
LOCATION:	Section 18, T.18 S., R.33 E. NMP.
COUNTY:	Lea County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose ☐ Four-String	☐ Casing Clearance ☑ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☑ Break Testing

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H_2S) 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 DESIGN

Note: The surface casing set depth was adjusted in accordance with the BLM geologist's recommendation. *"The operator proposes to set surface casing at 1450 ft. will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 1540 ft. If salt is encountered, set casing at least 25 ft. above the salt."*

1. The **13-3/8** inch surface casing shall be set at approximately **1,540 ft.** (a minimum of 70 feet 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

Approval Date: 12/08/2025

survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **9-5/8** inch intermediate casing shall be set in a competent bed (Tansill/Yates) at approximately **3,000 ft.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- **Cement to surface.** If cement does not circulate see B.1.a, c-d above.

Note: Excess cement is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

3. Operator has proposed to set **7 inch** production casing at approximately **9,997 ft.** (9,548 ft. TVD). The minimum required fill of cement behind the **7 inch** production casing is:

- Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification.

4. The minimum required fill of cement behind the **4-1/2 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 **Lea County: 575-689-5981**.

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. 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 (575-689-5981 Lea 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.

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 Lea County Petroleum Engineering Inspection Staff:
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981.

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      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

*Please refer to most recently approved NOI appended to this application updated changes to well

tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

SA 11/18/2025

AFMSS

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

Operator Certification Data Report

12/12/2025

Operator

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

NAME: MELONY LEAL **Signed on:** 09/03/2025

Title: Analyst

Street Address: 4801 BUSINESS PARK BLVD

City: HOBBS **State:** NM **Zip:** 88240

Phone: (575)393-5905

Email address: MLEAL@MEWBOURNE.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

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

Application Data
12/12/2025

APD ID: 10400105423
Submission Date: 09/03/2025
Operator Name: MEWBOURNE OIL COMPANY
Well Name: MYSTERIO 19/30 FED
Well Number: 527H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400105423
Tie to previous NOS?
Submission Date: 09/03/2025
BLM Office: Carlsbad
User: MELONY LEAL
Title: Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMLC069420
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? YES
Permitting Agent? NO
APD Operator: MEWBOURNE OIL COMPANY
Operator letter of

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY
Operator Address: P O BOX 5270
Zip: 88241
Operator PO Box:
Operator City: HOBBS
State: NM
Operator Phone: (575)393-5905
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: MYSTERIO 19/30 FED
Well Number: 527H
Field/Pool or Exploratory? Field and Pool
Field Name: MESCALERO ESCARPE
Pool Name: Bone Spring

CONFIDENTIAL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Is the proposed well in an area containing other mineral resources? POTASH

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: SINGLE WELL **Multiple Well Pad Name:** **Number:**

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 10 Miles **Distance to nearest well:** 20 FT **Distance to lease line:** 210 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: MYSTERIO_19_30_FED_527H_C102_20250611081904.pdf

MYSTERIO_19_30_FED_527H_C102_20250826104324.pdf

Well work start Date: 09/10/2025 **Duration:** 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	525	FSL	1830	FEL	18S	33E	18	Aliquot SESW	32.7416296	-103.6997969	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 93	3844			Y
KOP Leg #1	473	FSL	500	FEL	18S	33E	18	Aliquot SESE	32.3741488	-103.6954721	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 93	-5131	9097	8975	Y

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	100	FNL	500	FEL	18S	33E	19	Aliquot NENE	32.7399138	-103.6954688	LEA	NEW MEXICO	NEW MEXICO	F	NMLC069420	-5704	9997	9548	Y
PPP Leg #1-2	1220	FNL	500	FEL	18S	33E	19	Aliquot SENE	32.7365611	-103.6954625	LEA	NEW MEXICO	NEW MEXICO	F	NMLC069276	-5728	11217	9572	Y
EXIT Leg #1	100	FSL	500	FEL	18S	33E	30	Aliquot SESE	32.7114441	-103.6954154	LEA	NEW MEXICO	NEW MEXICO	F	NMLC069276	-5910	20357	9754	Y
BHL Leg #1	100	FSL	500	FEL	18S	33E	30	Aliquot SESE	32.7114441	-103.6954154	LEA	NEW MEXICO	NEW MEXICO	F	NMLC069276	-5910	20357	9754	Y

CONFIDENTIAL

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting	*Please refer to most recently approved NOI appended to this application updated changes to well	Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
	45793	MESCALEO ESCARPE; BONE SPRING	
Property Code	Property Name		Well Number
	MYSTERIO 19/30 FED		527H
OGRID No. 14744	Operator Name	MEWBOURNE OIL COMPANY	Ground Level Elevation 3844'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	18	18S	33E		525 FSL	1830 FEL	32.7416296°N	103.6997969°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	30	18S	33E		100 FSL	500 FEL	32.7114441°N	103.6954154°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	DEFINING			P
Order Numbers. N/A			Well setbacks are under Common Ownership: ☑ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	18	18S	33E		473 FSL	500 FEL	32.7414884°N	103.6954721°W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	19	18S	33E		100 FNL	500 FEL	32.7399138°N	103.6954688°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	30	18S	33E		100 FSL	500 FEL	32.7114441°N	103.6954154°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☑ Horizontal ☐ Vertical	Ground Floor Elevation:
N/A		3844'

OPERATOR CERTIFICATIONS

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

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

Brett Miller 05/23/2025

Signature Date

Brett Miller

Printed Name

brett.miller@mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

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

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number	Date of Survey
19680	10/22/2024

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.

JOB #: LS24100870D1

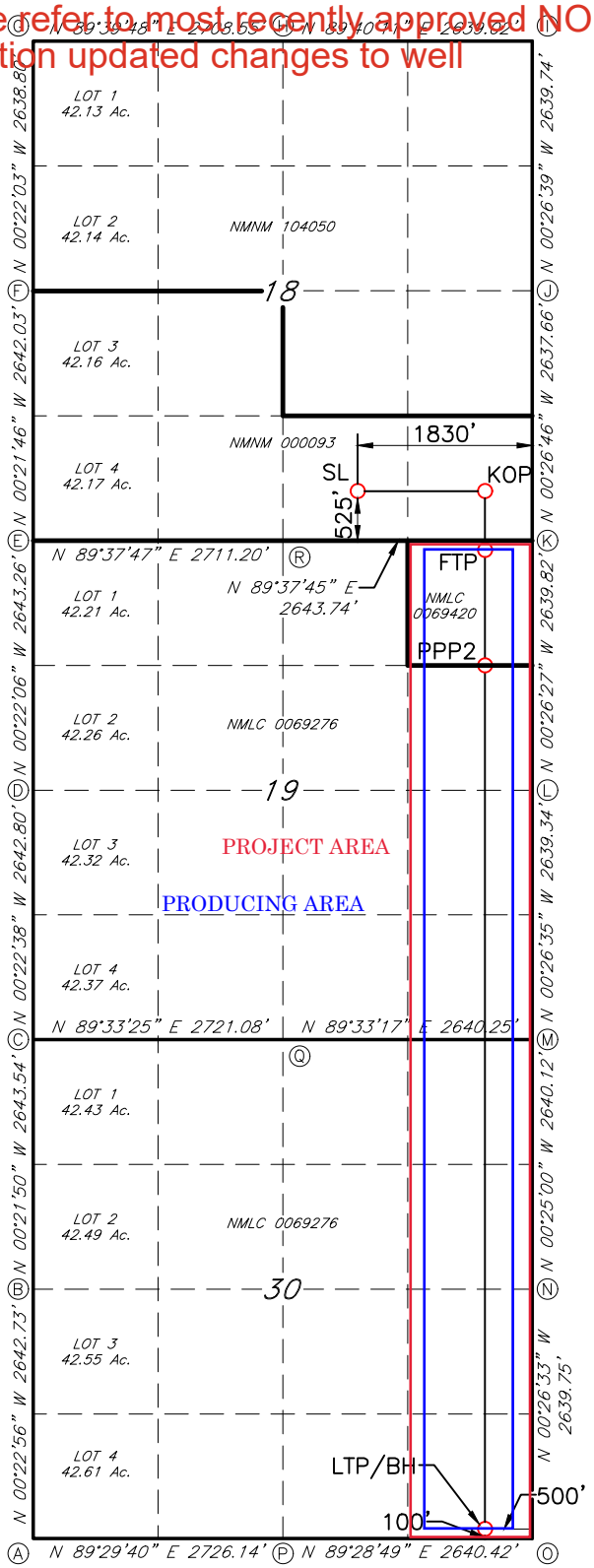
ACREAGE DEDICATION PLATS

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.

MYSTERIO 19/30 FED #527H

*Please refer to most recently approved NOI appended to this application updated changes to well



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
525' FSL & 1830 FEL (SEC.18)
N: 634119.0 – E: 736130.7

LAT: 32.7416296° N
LONG: 103.6997969° W

KICK OFF POINT (KOP)
473' FSL & 500' FEL (SEC.18)
N: 634075.6 – E: 737460.8

LAT: 32.37414884°N
LONG: 103.6954721°W

FIRST TAKE POINT (FTP)
100' FNL & 500' FEL (SEC.19)
N: 633502.8 – E: 737465.2

LAT: 32.7399138°N
LONG: 103.6954688°W

PROPOSED PENETRATION POINT (PPP2)
1220' FNL & 500' FEL (SEC.19)
N: 632283.0 – E: 737474.5

LAT: 32.7365611°N
LONG: 103.6954625°W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
100' FSL & 500' FEL (SEC.30)
N: 623145.0 – E: 737544.0

LAT: 32.7114441° N
LONG: 103.6954154° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1913"
N: 623001.6 – E: 732679.5

B: FOUND BRASS CAP "1913"
N: 625643.7 – E: 732661.8

C: FOUND BRASS CAP "1913"
N: 628286.6 – E: 732645.1

D: FOUND BRASS CAP "1913"
N: 630928.8 – E: 732627.7

E: FOUND BRASS CAP "1913"
N: 633571.4 – E: 732610.7

F: FOUND BRASS CAP "1913"
N: 636212.8 – E: 732594.0

G: FOUND BRASS CAP "1913"
N: 638850.9 – E: 732577.0

H: FOUND BRASS CAP "1913"
N: 638866.9 – E: 735284.9

I: FOUND BRASS CAP "1913"
N: 638882.1 – E: 737923.3

J: FOUND BRASS CAP "1913"
N: 636243.0 – E: 737943.8

K: FOUND BRASS CAP "1913"
N: 633606.0 – E: 737964.3

L: FOUND BRASS CAP "1913"
N: 630966.8 – E: 737984.7

M: FOUND BRASS CAP "1913"
N: 628328.2 – E: 738005.1

N: FOUND BRASS CAP "1913"
N: 625688.7 – E: 738024.2

O: FOUND BRASS CAP "1913"
N: 623049.6 – E: 738044.6

P: FOUND BRASS CAP "1913"
N: 623025.7 – E: 735404.9

Q: FOUND BRASS CAP "1913"
N: 628307.6 – E: 735365.5

R: FOUND BRASS CAP "1913"
N: 633588.9 – E: 735321.2

JOB #: LS24100870D1

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting	*Please refer to most recently approved NOI appended to this application updated changes to well	Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
	45793	MESCALEO ESCARPE; BONE SPRING

Property Code	Property Name	Well Number
	MYSTERIO 19/30 FED	527H

OGRID No.	Operator Name	Ground Level Elevation
14744	MEWBOURNE OIL COMPANY	3844'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal | Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	18	18S	33E		525 FSL	1830 FEL	32.7416296°N	103.6997969°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	30	18S	33E		100 FSL	500 FEL	32.7114441°N	103.6954154°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	DEFINING			P

Order Numbers. N/A | Well setbacks are under Common Ownership: ☑ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	18	18S	33E		473 FSL	500 FEL	32.7414884°N	103.6954721°W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	19	18S	33E		100 FNL	500 FEL	32.7399138°N	103.6954688°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	30	18S	33E		100 FSL	500 FEL	32.7114441°N	103.6954154°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☑ Horizontal ☐ Vertical	Ground Floor Elevation:
N/A		3844'

OPERATOR CERTIFICATIONS

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

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

Brett Miller 05/23/2025

Signature Date

Brett Miller

Printed Name

brett.miller@mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

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

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number	Date of Survey
19680	10/22/2024

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.

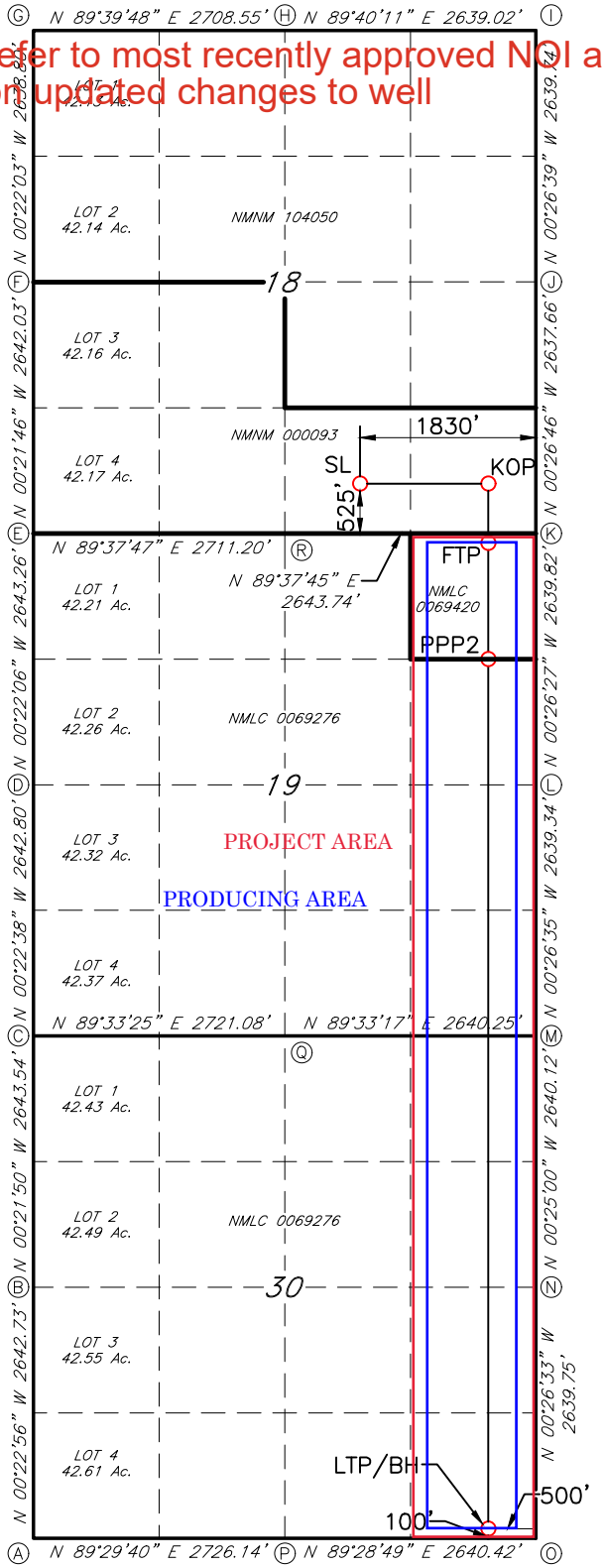
ACREAGE DEDICATION PLATS

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.

MYSTERIO 19/30 FED #527H

*Please refer to most recently approved NOI appended to this application updated changes to well



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
525' FSL & 1830 FEL (SEC.18)
N: 634119.0 – E: 736130.7

LAT: 32.7416296° N
LONG: 103.6997969° W

KICK OFF POINT (KOP)
473' FSL & 500' FEL (SEC.18)
N: 634075.6 – E: 737460.8

LAT: 32.37414884°N
LONG: 103.6954721°W

FIRST TAKE POINT (FTP)
100' FNL & 500' FEL (SEC.19)
N: 633502.8 – E: 737465.2

LAT: 32.7399138°N
LONG: 103.6954688°W

PROPOSED PENETRATION POINT (PPP2)
1220' FNL & 500' FEL (SEC.19)
N: 632283.0 – E: 737474.5

LAT: 32.7365611°N
LONG: 103.6954625°W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
100' FSL & 500' FEL (SEC.30)
N: 623145.0 – E: 737544.0

LAT: 32.7114441° N
LONG: 103.6954154° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1913"
N: 623001.6 – E: 732679.5

B: FOUND BRASS CAP "1913"
N: 625643.7 – E: 732661.8

C: FOUND BRASS CAP "1913"
N: 628286.6 – E: 732645.1

D: FOUND BRASS CAP "1913"
N: 630928.8 – E: 732627.7

E: FOUND BRASS CAP "1913"
N: 633571.4 – E: 732610.7

F: FOUND BRASS CAP "1913"
N: 636212.8 – E: 732594.0

G: FOUND BRASS CAP "1913"
N: 638850.9 – E: 732577.0

H: FOUND BRASS CAP "1913"
N: 638866.9 – E: 735284.9

I: FOUND BRASS CAP "1913"
N: 638882.1 – E: 737923.3

J: FOUND BRASS CAP "1913"
N: 636243.0 – E: 737943.8

K: FOUND BRASS CAP "1913"
N: 633606.0 – E: 737964.3

L: FOUND BRASS CAP "1913"
N: 630966.8 – E: 737984.7

M: FOUND BRASS CAP "1913"
N: 628328.2 – E: 738005.1

N: FOUND BRASS CAP "1913"
N: 625688.7 – E: 738024.2

O: FOUND BRASS CAP "1913"
N: 623049.6 – E: 738044.6

P: FOUND BRASS CAP "1913"
N: 623025.7 – E: 735404.9

Q: FOUND BRASS CAP "1913"
N: 628307.6 – E: 735365.5

R: FOUND BRASS CAP "1913"
N: 633588.9 – E: 735321.2

JOB #: LS24100870D1

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

Drilling Plan Data Report
12/12/2025

APD ID: 10400105423
Submission Date: 09/03/2025
Operator Name: MEWBOURNE OIL COMPANY
Well Name: MYSTERIO 19/30 FED
Well Number: 527H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

*Please refer to most recently approved NOI appended to this application updated changes to well

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16949671	RUSTLER	2415	1374	1374	ANHYDRITE, DOLOMITE	USEABLE WATER	N
16949672	TOP SALT	932	1483	1483	SALT	NONE	N
16949682	BASE OF SALT	-282	2697	2697	SALT	NONE	N
16949683	YATES	-451	2866	2866	SANDSTONE	NATURAL GAS, OIL	N
16949675	SEVEN RIVERS	-947	3362	3362	DOLOMITE	NATURAL GAS, OIL	N
16949684	QUEEN	-1690	4105	4105	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
16949676	GRAYBURG	-1994	4409	4409	DOLOMITE	NONE	N
16949677	SAN ANDRES	-2440	4855	4855	DOLOMITE	NATURAL GAS, OIL	N
16949685	CHERRY CANYON	-2666	5081	5081	SANDSTONE	NATURAL GAS, OIL	N
16949679	BRUSHY CANYON	-3323	5738	5738	SANDSTONE	NATURAL GAS, OIL	N
16949680	BONE SPRING	-4456	6871	6871	LIMESTONE, SHALE	NATURAL GAS, OIL	N
16949681	BONE SPRING 1ST	-6084	8499	8499	SANDSTONE	NATURAL GAS, OIL	Y
16949686	BONE SPRING 2ND	-6361	8776	8776	LIMESTONE	NATURAL GAS, OIL	Y
16949687	BONE SPRING 2ND	-6606	9021	9021	SANDSTONE	NATURAL GAS, OIL	Y
16949688	BONE SPRING 3RD	-7344	9759	9759	LIMESTONE	NATURAL GAS, OIL	N
16949689	BONE SPRING 3RD	-7519	9934	9934	SANDSTONE	NATURAL GAS, OIL	N
16949690	WOLFCAMP	-7843	10258	10258	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

CONFIDENTIAL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 20357

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_20250611082730.pdf

Flex_Line_Specs_API_16C_20250611082737.pdf

Flex_Line_Specs_API_16C_20250826104613.pdf

5M_BOPE_Choke_Diagram_20250826104613.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20250611082754.pdf

MOC_Break_Testing_Variance_20250610090003.pdf

5M_BOPE_Schematic_20250826104653.pdf

MOC_Break_Testing_Variance_20250826104654.pdf

Multi_Bowl_WH_20251009073340.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1450	0	1450	3844	2394	1450	H-40	48	ST&C	1.19	2.67	DRY	4.63	DRY	7.77
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3000	0	3000		844	3000	J-55	36	LT&C	1.27	2.21	DRY	4.19	DRY	5.22

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

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
3	PRODUCTION	8.75	7.0	NEW	API	N	0	9997	0	9548		-5704	9997	P-110	26	LT&C	1.3	2.07	DRY	2.7	DRY	3.24
4	LINER	6.125	4.5	NEW	API	N	9097	20357	8975	9754	-5131	-5910	11260	P-110	13.5	LT&C	1.83	2.13	DRY	2.22	DRY	2.78

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26_P110_LTC_Csg_20250611080754.pdf

7in_26_P110_LTC_Csg_20250826104857.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_20250610090105.pdf

13.375in_48__H40_STC_Csg_20250826104820.pdf

CONFIDENTIAL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Casing Attachments

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26_P110_LTC_Csg_20250611083222.pdf

7in_26_P110_LTC_Csg_20250826104921.pdf

Casing ID: 4 **String** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26_P110_LTC_Csg_20250610090155.pdf

7in_26_P110_LTC_Csg_20250826104837.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1258	830	2.12	12.5	1760	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		1258	1450	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	2312	420	2.12	12.5	900	25	Class C	Salt, Gel, Extender, LCM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		2312	3000	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		2800	7340	570	2.12	12.5	1210	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		7340	9997	600	1.18	15.6	708	25	Class H	RETARDER, FLUID LOSS, DEFOAMER
LINER	Lead		9097	20357	1020	1.85	13.5	1890	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.

Describe the mud monitoring system utilized: Pason/PVT/visual monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1450	SPUD MUD	8.4	8.6							
1450	3000	SALT SATURATED	10	10.2							
3000	9997	WATER-BASED MUD	8.6	9.7							

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

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
9997	20357	OIL-BASED MUD	10	11.5							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (9097') to surface (horizontal well vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.

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

MEASUREMENT WHILE DRILLING,MUD LOG/GEOLOGIC LITHOLOGY LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,COMPENSATED NEUTRON LOG,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5833 **Anticipated Surface Pressure:** 3687

Anticipated Bottom Hole Temperature(F): 140

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_Plan_20240531102849.pdf

H2S_Plan_20250826105021.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

MYSTERIO_19_30_FED_527H_Dir_Plan_20250611083611.pdf
MYSTERIO_19_30_FED_527H_Dir_Plot_20250611083617.pdf
MYSTERIO_19_30_FED_527H_Dir_Plot_20250826105048.pdf
MYSTERIO_19_30_FED_527H_Dir_Plan_20250826105050.pdf

Other proposed operations facets description:

Variance is requested to perform offline cementing according to the attached procedure. R-111Q: Mewbourne is requested to perform Open Hole Cementing per
R-111Q Guidelines if well is in Potash.

Other proposed operations facets attachment:

Mysterio_19_30_Fed_527H_Drlg_Program_20250611083634.pdf
Binder1_20250812094438.pdf
Mysterio_19_30_Fed_527H_Drlg_Program_20250826105134.pdf
Binder1_20250826105135.pdf

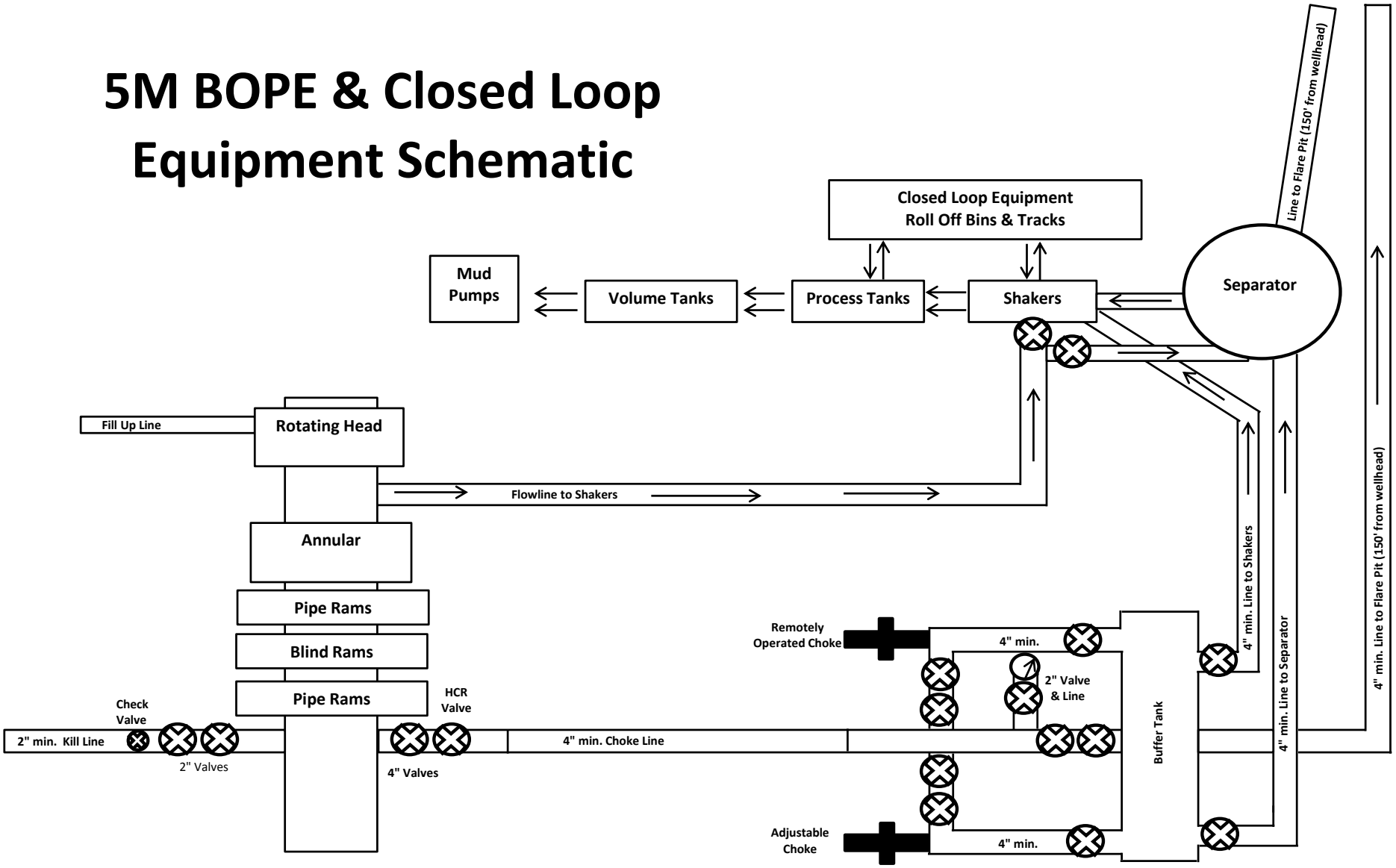
Other Variance request(s)?: Y

Other Variance attachment:

Mewbourne_Break_Testing_Variance_20240531093500.pdf
Mewbourne_Offline_Cementing_Variance_20240531093452.pdf
MOC_Offline_Cementing_Variance_20250826105155.pdf
MOC_Break_Testing_Variance_20250826105155.pdf

CONFIDENTIAL

5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

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

Page 48 of 233

LETONE

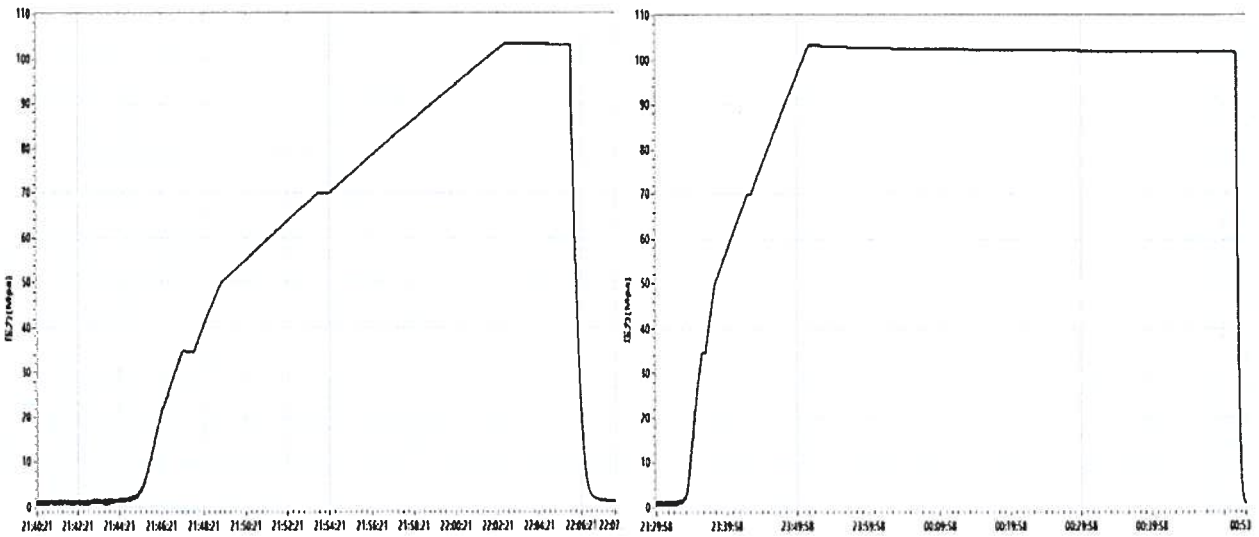
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd 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 ±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 3rd edition				
Approver	Jiaolong Chen	Auditor	Hliqing Dong	Inspector	Zhansheng Wang

Received by OCD: 4/21/2026 10:53:39 AM

Released to Imaging: 4/22/2026 4:02:43 PM

Page 49 of 233

LETONE

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYY/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 3rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

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

Approver	Jiaolong Chen	Auditor	Hlinging Dong	Inspector	Zhansheng Wang

Received by OCD: 4/21/2026 10:53:39 AM

Released to Imaging: 4/22/2026 4:02:43 PM

Page 50 of 233

LETONE

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№: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

Received by OCD: 4/21/2026 10:53:39 AM

Released to Imaging: 4/22/2026 4:02:43 PM

Page 51 of 233

LETONE

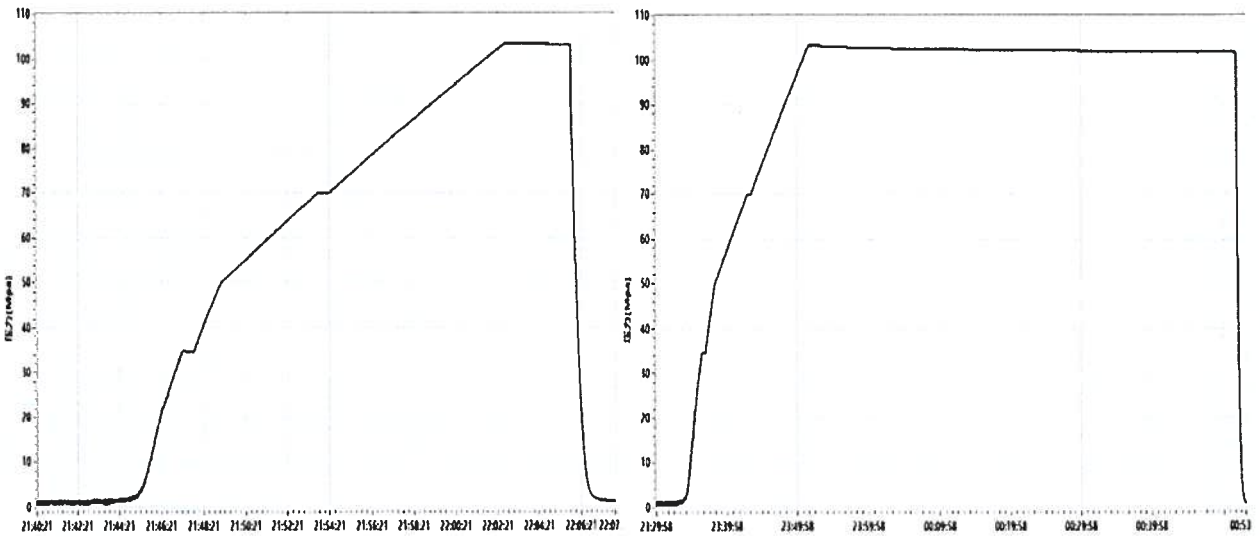
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd 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 ±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 3rd edition				
Approver	Jiaolong Chen	Auditor	Hliqing Dong	Inspector	Zhansheng Wang

Received by OCD: 4/21/2026 10:53:39 AM

Released to Imaging: 4/22/2026 4:02:43 PM

Page 52 of 233

LETONE

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYY/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 3rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

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

Approver	Jiaolong Chen	Auditor	Hliqing Dong	Inspector	Zhansheng Wang

Received by OCD: 4/21/2026 10:53:39 AM

Released to Imaging: 4/22/2026 4:02:43 PM

Page 53 of 233

LETONE

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№: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

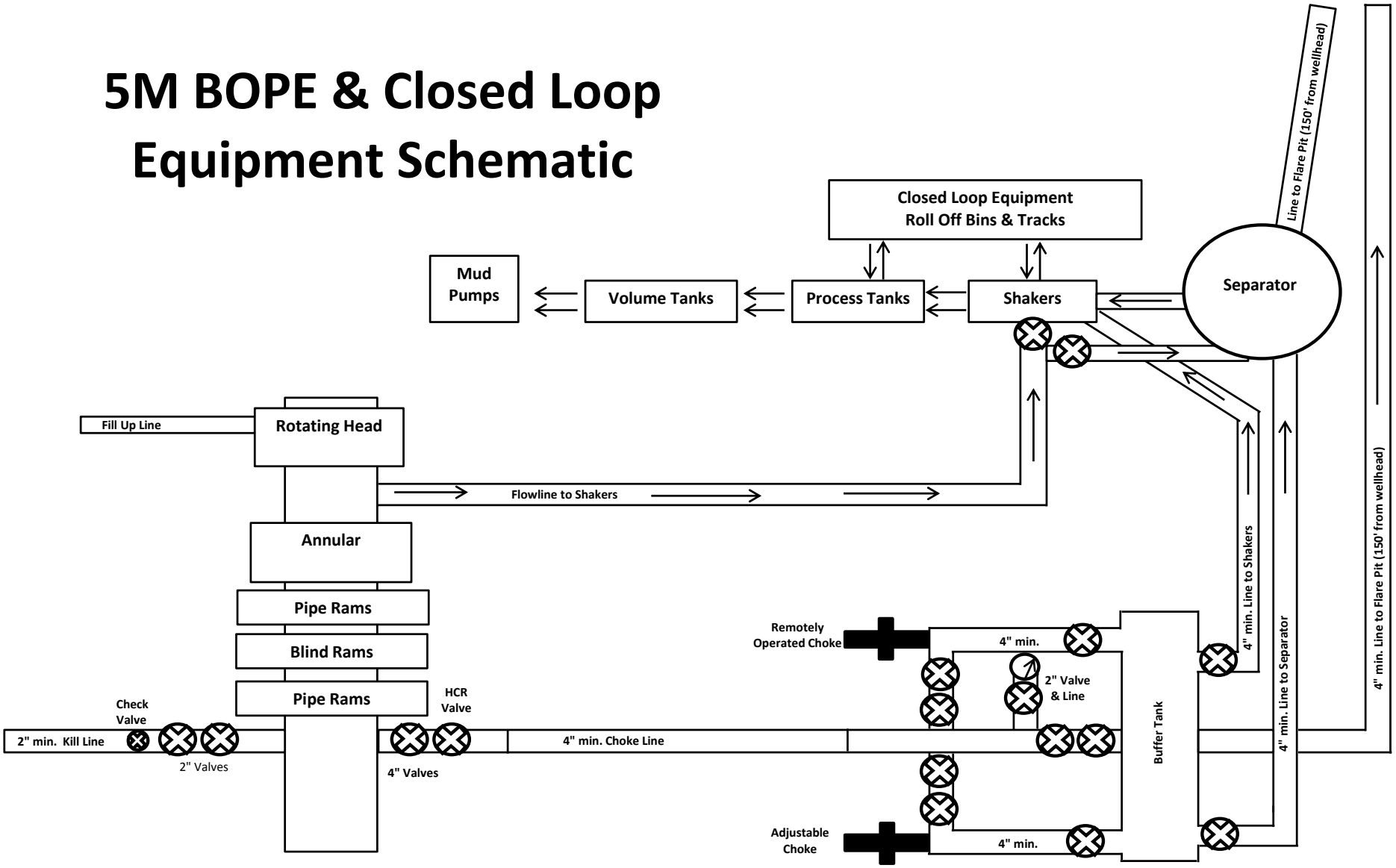
The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD . in Aug 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Aug 26, 2023. The overall condition is good. This is to certify that the Choke And Kill Hose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

QC Manager：Jiaolong Chen　　Date:Aug 26, 2023

Received by OCD: 4/21/2026 10:53:39 AM

Released to Imaging: 4/22/2026 4:02:43 PM

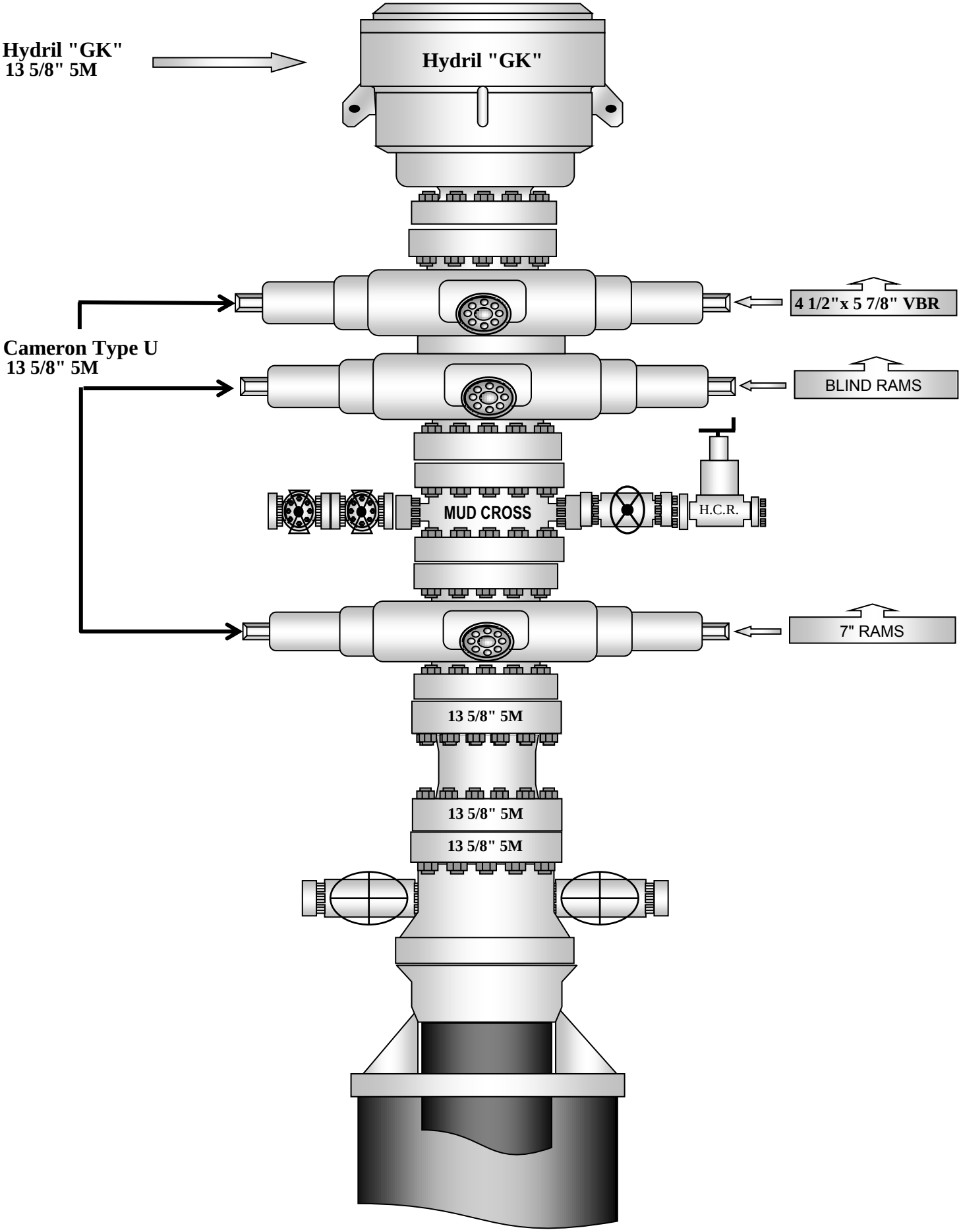
5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

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

5M BOPE Schematic



MEWBOURNE OIL COMPANY

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.

MEWBOURNE OIL COMPANY

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.

MEWBOURNE
OIL COMPANY

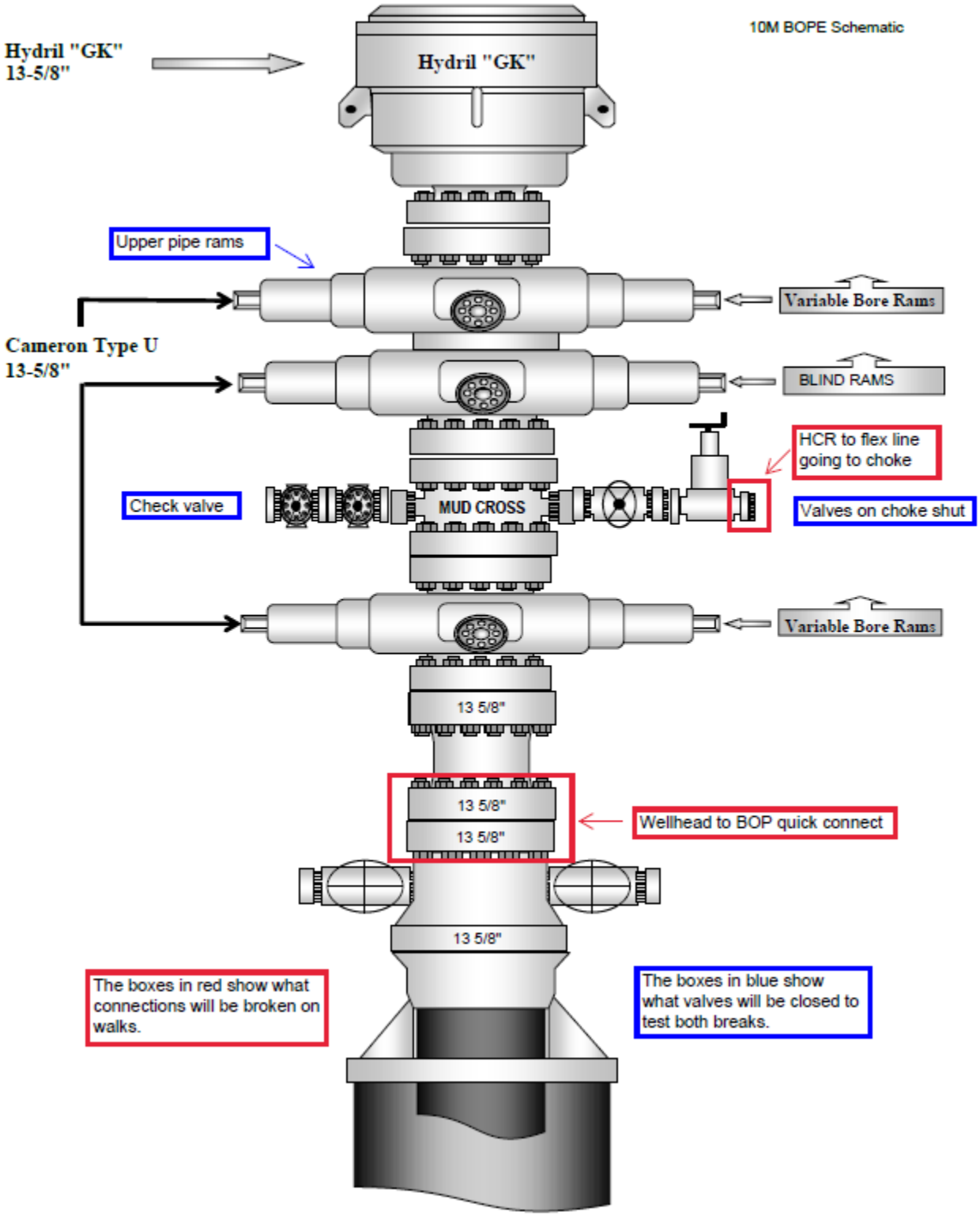


Figure 1. BOP diagram

MEWBOURNE
OIL COMPANY

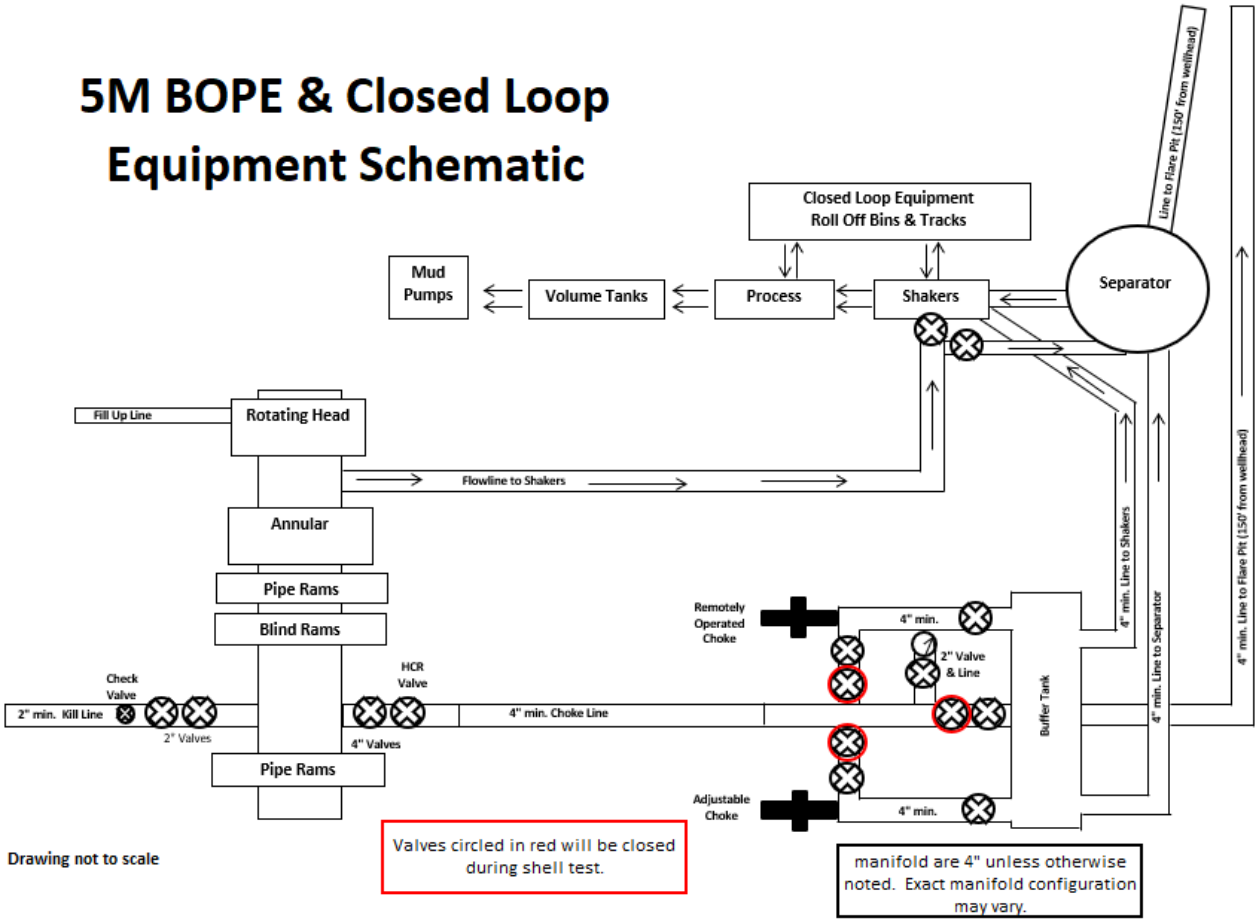


Figure 2. BOPE diagram

MEWBOURNE
OIL COMPANY



Figure 3. BOP handling system

MEWBOURNE
OIL COMPANY



Figure 4. BOP handling system

MEWBOURNE OIL COMPANY

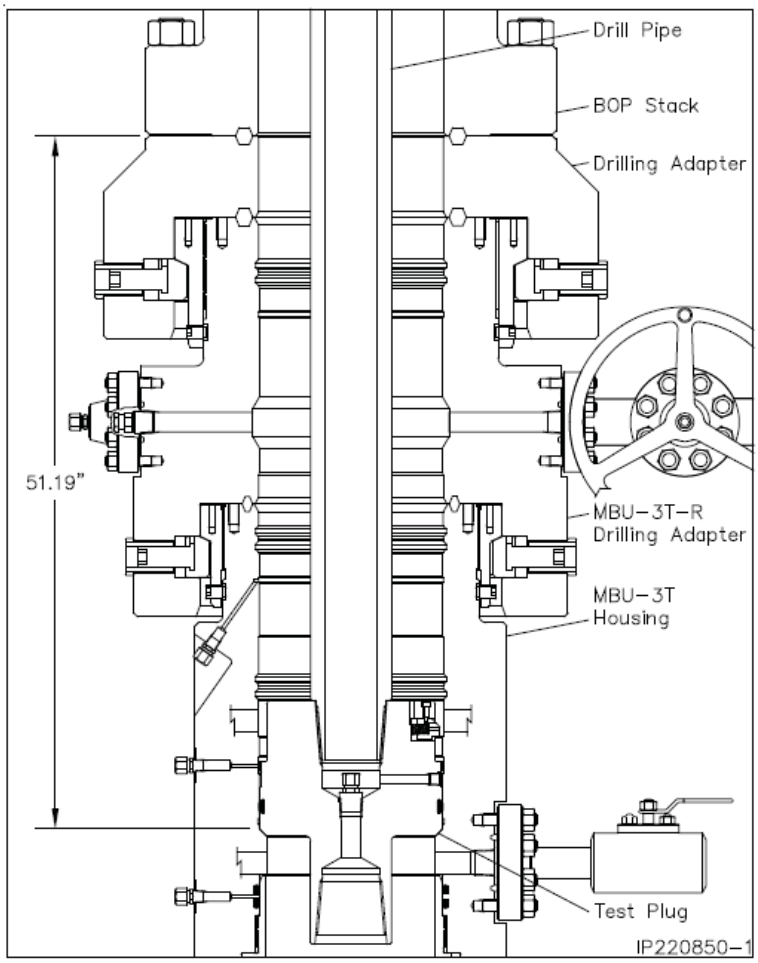


Figure 5. Cactus 5M wellhead with BOP quick connect

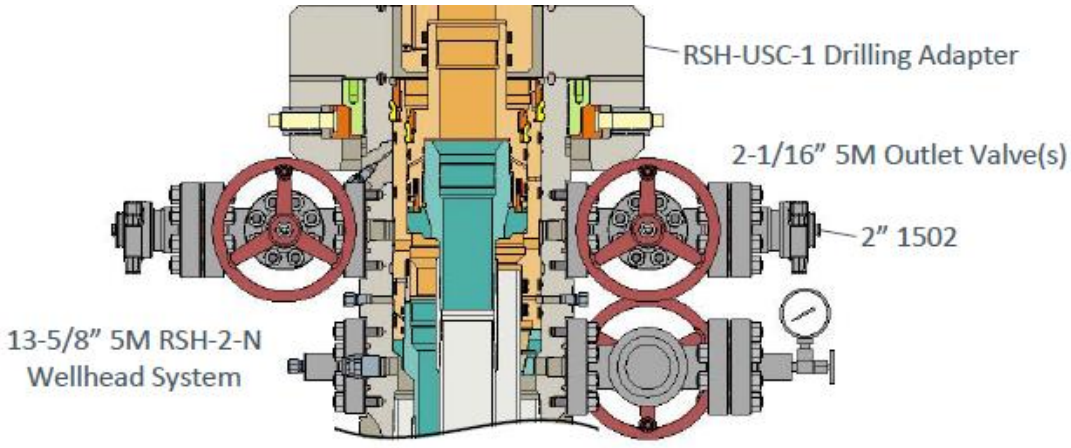
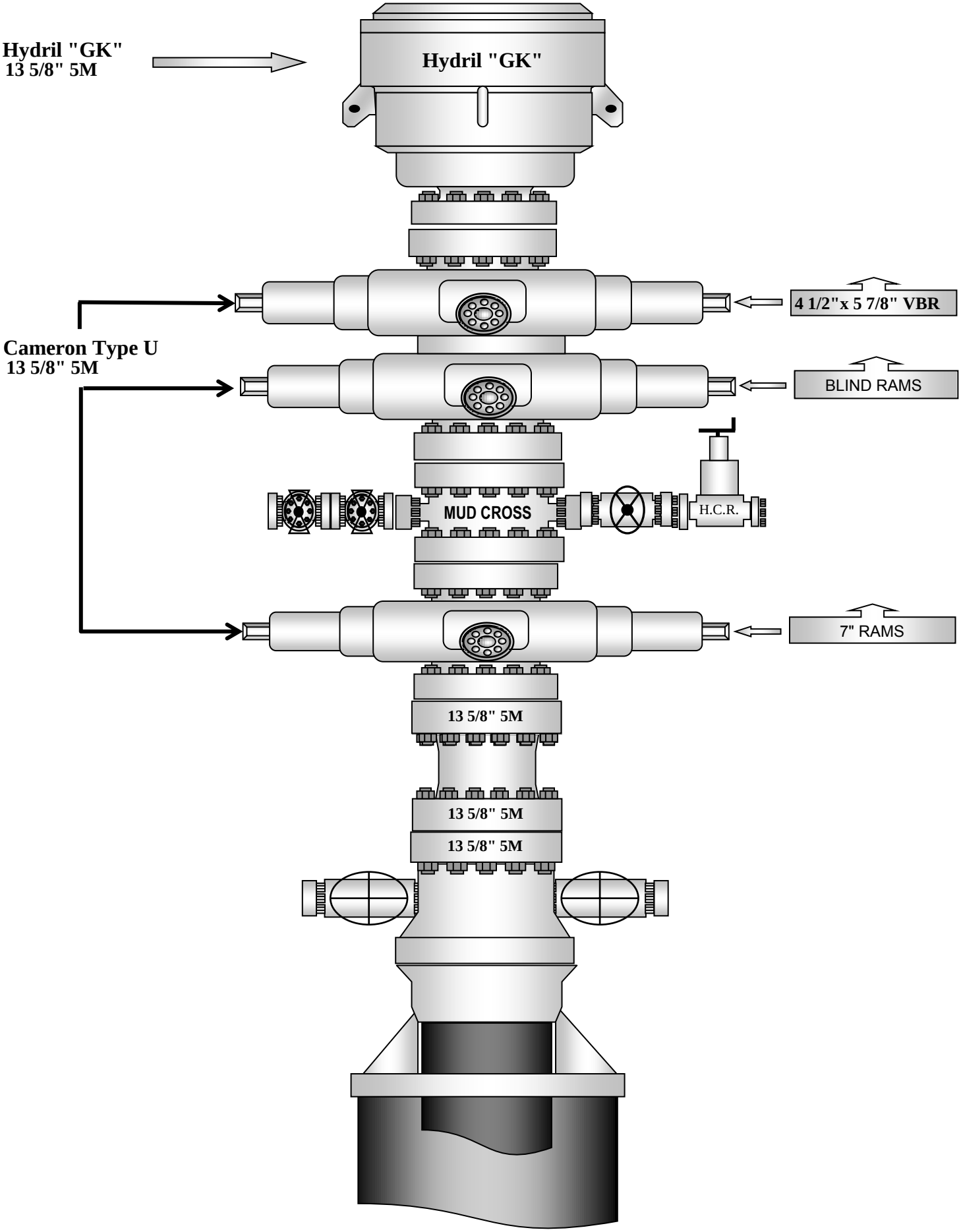


Figure 6. Vault 5M wellhead with BOP quick connect

5M BOPE Schematic



MEWBOURNE OIL COMPANY

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.

MEWBOURNE OIL COMPANY

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.

MEWBOURNE
OIL COMPANY

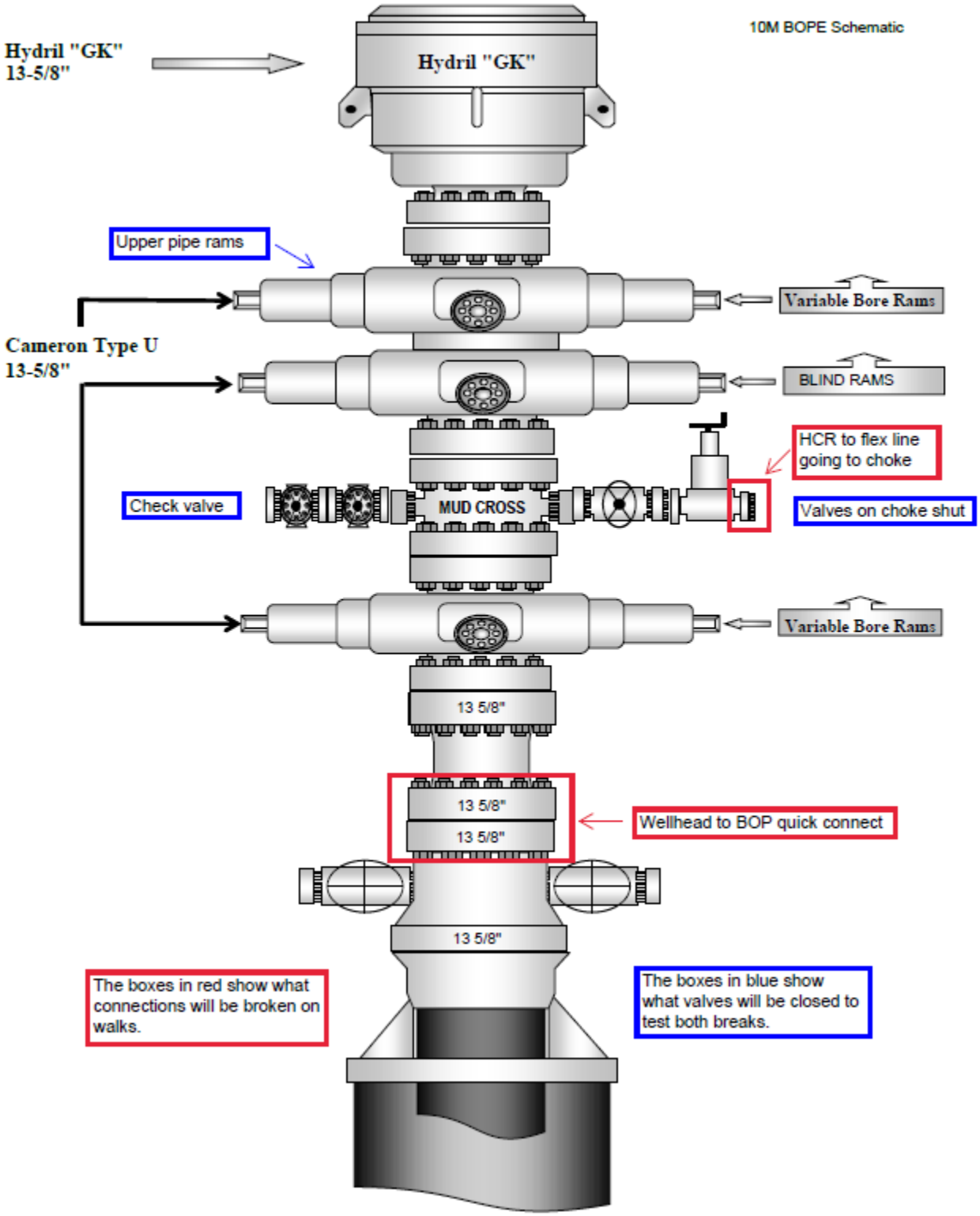


Figure 1. BOP diagram

MEWBOURNE OIL COMPANY

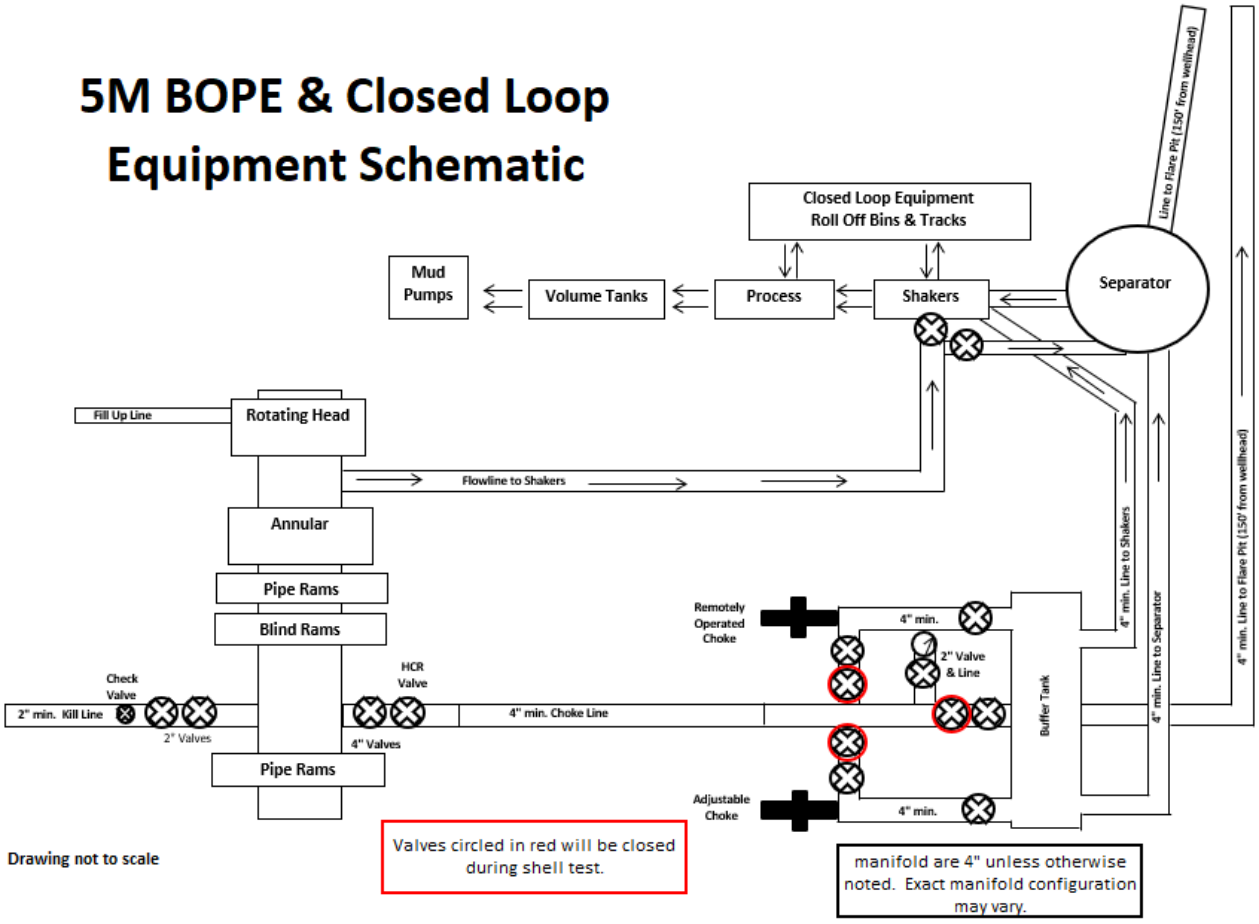


Figure 2. BOPE diagram

MEWBOURNE
OIL COMPANY



Figure 3. BOP handling system

MEWBOURNE
OIL COMPANY



Figure 4. BOP handling system

MEWBOURNE
OIL COMPANY

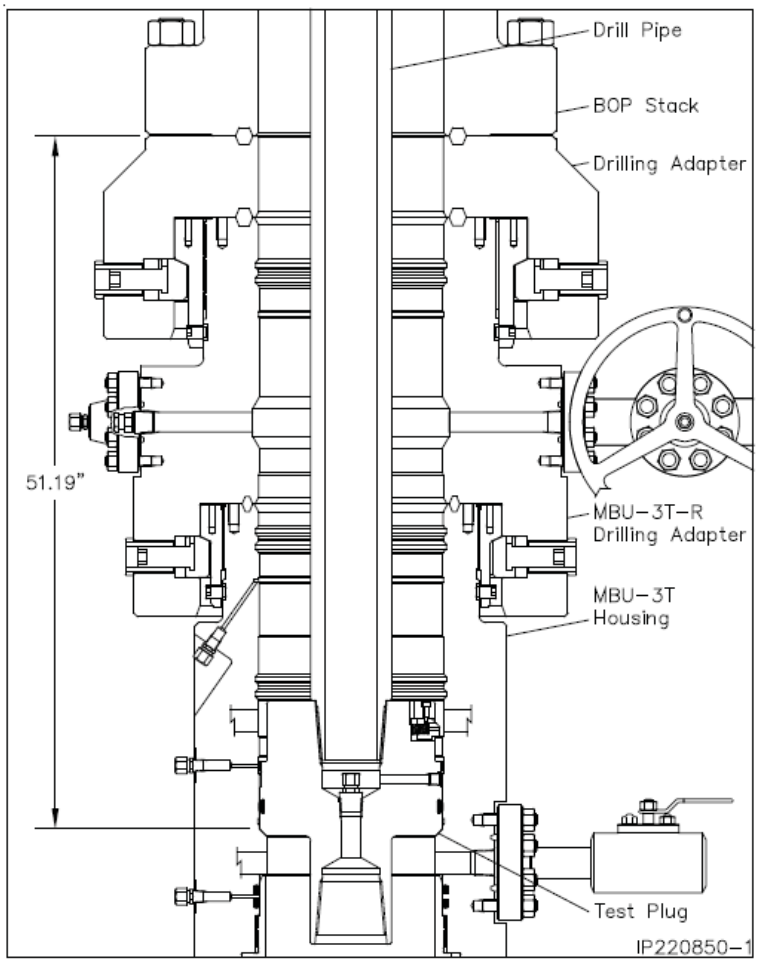


Figure 5. Cactus 5M wellhead with BOP quick connect

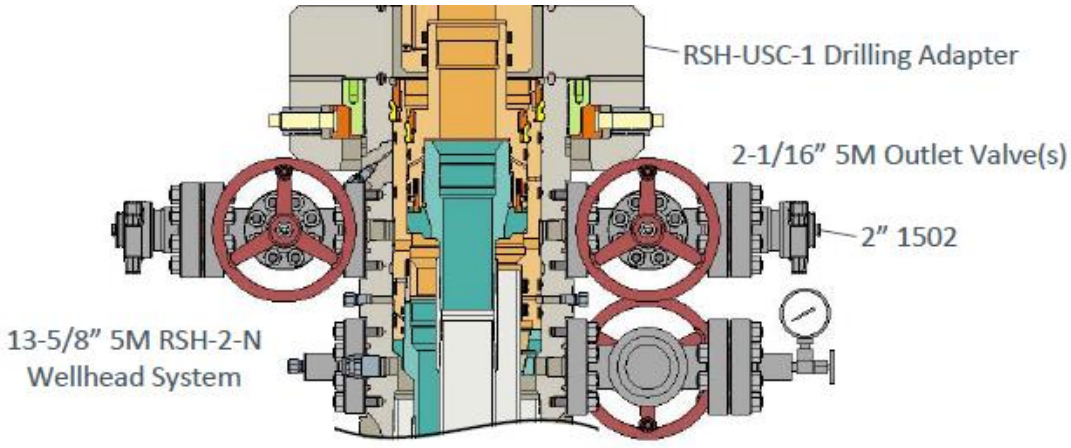
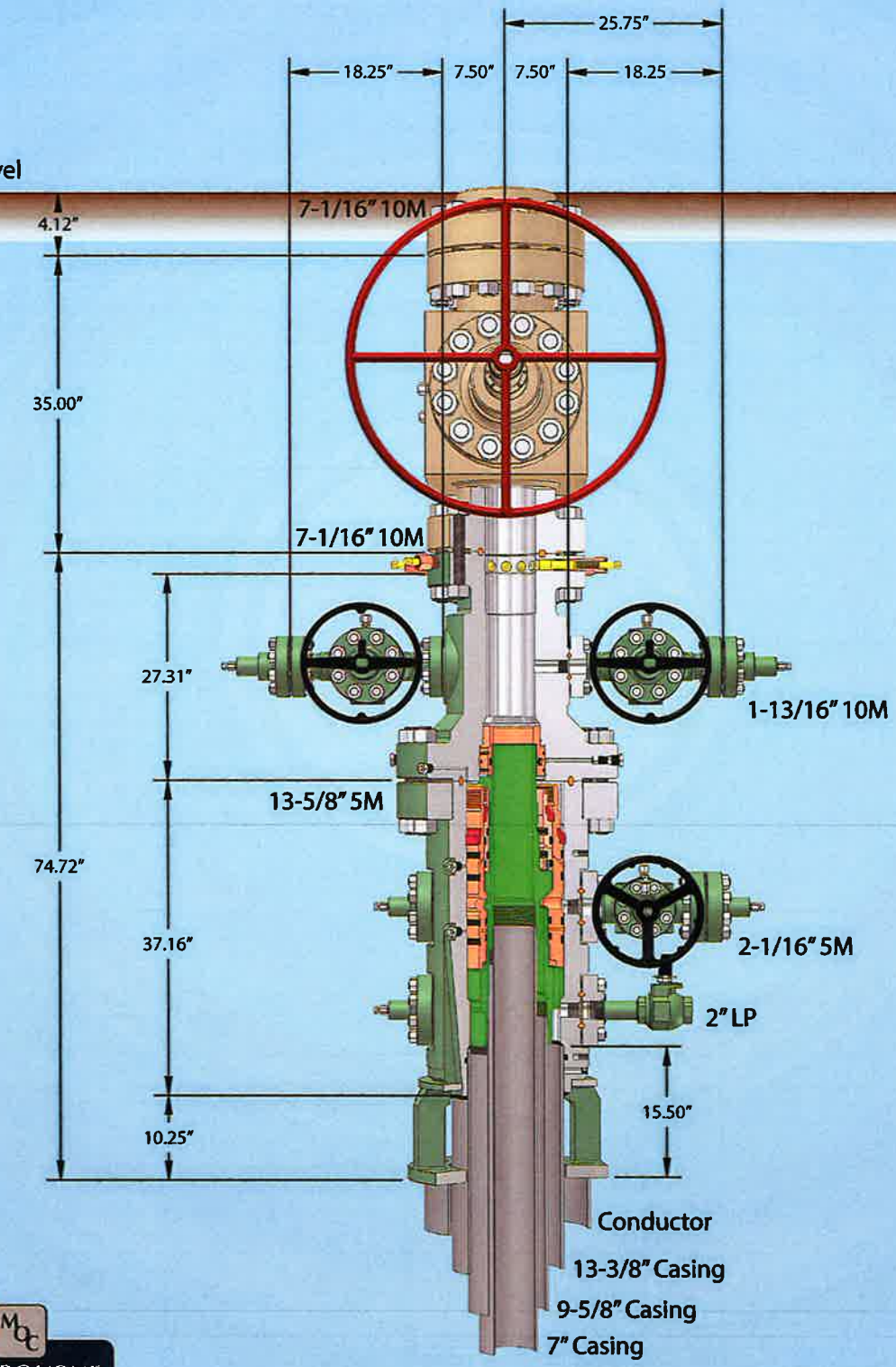


Figure 6. Vault 5M wellhead with BOP quick connect

Page 71 of 233

CAMERON
A Schlumberger Company

13-5/8" MN-DS Wellhead System



MEWBOURNE OIL COMPANY

C7585
Rev. 02

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

Capping flange 57" conductor cut-off

79

Received by OCD: 4/21/2026 10:53:39 AM

Released to Imaging: 4/22/2026 4:02:43 PM

Tenaris

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.	**SMYS**	40,000 psi
Wall Thickness	0.330 in.	**Plain End Weight**	46.02 lb/ft	**Min UTS**	60,000 psi
Nominal Weight	48 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	541 x1000 lb
Nominal ID	12.715 in.			**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.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2024. All rights reserved.

Tenaris

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.	**SMYS**	40,000 psi
Wall Thickness	0.330 in.	**Plain End Weight**	46.02 lb/ft	**Min UTS**	60,000 psi
Nominal Weight	48 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	541 x1000 lb
Nominal ID	12.715 in.			**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.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs (“Information”) is not intended to constitute professional or any other type of advice or recommendation and is provided on an “as is” basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user’s own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris’s products and services are subject to Tenaris’s standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2024. All rights reserved.

Tenaris

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.	**SMYS**	110,000 psi
Wall Thickness	0.362 in.	**Plain End Weight**	25.69 lb/ft	**Min UTS**	125,000 psi
Nominal Weight	26 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	830 x1000 lb
Nominal ID	6.276 in.			**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.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs (“Information”) is not intended to constitute professional or any other type of advice or recommendation and is provided on an “as is” basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user’s own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris’s products and services are subject to Tenaris’s standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2024. All rights reserved.

Tenaris

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.	**SMYS**	110,000 psi
Wall Thickness	0.362 in.	**Plain End Weight**	25.69 lb/ft	**Min UTS**	125,000 psi
Nominal Weight	26 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	830 x1000 lb
Nominal ID	6.276 in.			**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.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2024. All rights reserved.

Tenaris

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.	**SMYS**	110,000 psi
Wall Thickness	0.362 in.	**Plain End Weight**	25.69 lb/ft	**Min UTS**	125,000 psi
Nominal Weight	26 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	830 x1000 lb
Nominal ID	6.276 in.			**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.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs (“Information”) is not intended to constitute professional or any other type of advice or recommendation and is provided on an “as is” basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user’s own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris’s products and services are subject to Tenaris’s standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2024. All rights reserved.

Tenaris

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.	**SMYS**	110,000 psi
Wall Thickness	0.362 in.	**Plain End Weight**	25.69 lb/ft	**Min UTS**	125,000 psi
Nominal Weight	26 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	830 x1000 lb
Nominal ID	6.276 in.			**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.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2024. All rights reserved.

Tenaris

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.	**SMYS**	110,000 psi
Wall Thickness	0.362 in.	**Plain End Weight**	25.69 lb/ft	**Min UTS**	125,000 psi
Nominal Weight	26 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	830 x1000 lb
Nominal ID	6.276 in.			**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.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs (“Information”) is not intended to constitute professional or any other type of advice or recommendation and is provided on an “as is” basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user’s own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris’s products and services are subject to Tenaris’s standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2024. All rights reserved.

Tenaris

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.	**SMYS**	110,000 psi
Wall Thickness	0.362 in.	**Plain End Weight**	25.69 lb/ft	**Min UTS**	125,000 psi
Nominal Weight	26 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	830 x1000 lb
Nominal ID	6.276 in.			**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.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs (“Information”) is not intended to constitute professional or any other type of advice or recommendation and is provided on an “as is” basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user’s own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris’s products and services are subject to Tenaris’s standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2024. All rights reserved.

MEWBOURNE OIL COMPANY

Hydrogen Sulfide Plan Summary

A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

- Well control equipment
  a. Flare line 150' from wellhead to be ignited by flare gun.
  b. Choke manifold with a remotely operated choke.
  c. Mud/gas separator

- Protective equipment for essential personnel.

  Breathing apparatus:
  a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
  b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
  c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

  Auxiliary Rescue Equipment:
  a. Stretcher
  b. Two OSHA full body harness
  c. 100 ft 5/8 inch OSHA approved rope
  d. 1-20# class ABC fire extinguisher

- H2S detection and monitoring equipment:
  The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.
  (Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
  a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  c. Two wind socks will be placed in strategic locations, visible from all angles.

MEWBOURNE OIL COMPANY

ALTHEA 18 FED #101H

- Mud program:
  The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

- Metallurgy:
  All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

- Communication:
  Communication will be via cell phones and land lines where available.

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before the Delaware formation for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

1. The hazards and characteristics of hydrogen sulfide gas.
2. The proper use of personal protective equipment and life support systems.
3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

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

1. 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**

Mewbourne Oil Company

Lea County, New Mexico NAD 83
Mysterio 19/30 Fed #527H
Sec 18, T18S, R33E
SHL: 525' FSL & 1830' FEL (Sec 18)
BHL: 100' FSL & 500' FEL (Sec 30)

Plan: Design #1

Standard Planning Report

22 May, 2025

*Please refer to most recently approved NOI
appended to this application updated changes to well

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
Design:	Design #1		

Project Lea County, New Mexico NAD 83

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Mysterio 19/30 Fed #527H

Site Position:		**Northing:**	634,119.00 usft	**Latitude:**	32.7416295
From:	Map	**Easting:**	736,130.70 usft	**Longitude:**	-103.6997969
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 18, T18S, R33E

Well Position	**+N/-S**	0.0 usft	**Northing:**	634,119.00 usft	**Latitude:**	32.7416295
	+E/-W	0.0 usft	**Easting:**	736,130.70 usft	**Longitude:**	-103.6997969
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,872.0 usft	**Ground Level:**	3,844.0 usft
Grid Convergence:		0.34 °				

Wellbore BHL: 100' FSL & 500' FEL (Sec 30)

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.25	60.55	48,555.65825223

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	172.66

Plan Survey Tool Program **Date** 5/22/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,357.6	Design #1 (BHL: 100' FSL & 500'		

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	
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,989.4	10.79	91.87	1,986.2	-1.7	50.6	2.00	2.00	0.00	91.87	
8,558.0	10.79	91.87	8,438.8	-41.7	1,279.5	0.00	0.00	0.00	0.00	
9,097.5	0.00	0.00	8,975.0	-43.4	1,330.1	2.00	-2.00	0.00	180.00	KOP: 473' FSL & 500'
9,986.3	88.86	179.56	9,548.0	-605.1	1,334.4	10.00	10.00	0.00	179.56	
20,357.6	88.86	179.56	9,754.0	-10,974.0	1,413.3	0.00	0.00	0.00	0.00	BHL: 100' FSL & 500'

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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: 525' FSL & 1830' FEL (Sec 18)									
50.0	0.00	0.00	50.0	0.0	0.0	0.0	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
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	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
600.0	0.00	0.00	600.0	0.0	0.0	0.0	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
700.0	0.00	0.00	700.0	0.0	0.0	0.0	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
800.0	0.00	0.00	800.0	0.0	0.0	0.0	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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	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
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	1.00	91.87	1,500.0	0.0	0.4	0.1	2.00	2.00	0.00
1,550.0	2.00	91.87	1,550.0	-0.1	1.7	0.3	2.00	2.00	0.00
1,600.0	3.00	91.87	1,599.9	-0.1	3.9	0.6	2.00	2.00	0.00
1,650.0	4.00	91.87	1,649.8	-0.2	7.0	1.1	2.00	2.00	0.00
1,700.0	5.00	91.87	1,699.7	-0.4	10.9	1.7	2.00	2.00	0.00
1,750.0	6.00	91.87	1,749.5	-0.5	15.7	2.5	2.00	2.00	0.00
1,800.0	7.00	91.87	1,799.1	-0.7	21.3	3.4	2.00	2.00	0.00
1,850.0	8.00	91.87	1,848.7	-0.9	27.9	4.5	2.00	2.00	0.00
1,900.0	9.00	91.87	1,898.2	-1.2	35.3	5.6	2.00	2.00	0.00
1,950.0	10.00	91.87	1,947.5	-1.4	43.5	7.0	2.00	2.00	0.00
1,989.4	10.79	91.87	1,986.2	-1.7	50.6	8.1	2.00	2.00	0.00
2,000.0	10.79	91.87	1,996.6	-1.7	52.6	8.4	0.00	0.00	0.00
2,050.0	10.79	91.87	2,045.7	-2.0	61.9	9.9	0.00	0.00	0.00
2,100.0	10.79	91.87	2,094.9	-2.3	71.3	11.4	0.00	0.00	0.00
2,150.0	10.79	91.87	2,144.0	-2.6	80.6	12.9	0.00	0.00	0.00
2,200.0	10.79	91.87	2,193.1	-2.9	90.0	14.4	0.00	0.00	0.00
2,250.0	10.79	91.87	2,242.2	-3.2	99.4	15.9	0.00	0.00	0.00
2,300.0	10.79	91.87	2,291.3	-3.5	108.7	17.4	0.00	0.00	0.00
2,350.0	10.79	91.87	2,340.4	-3.9	118.1	18.9	0.00	0.00	0.00
2,400.0	10.79	91.87	2,389.6	-4.2	127.4	20.4	0.00	0.00	0.00
2,450.0	10.79	91.87	2,438.7	-4.5	136.8	21.9	0.00	0.00	0.00
2,500.0	10.79	91.87	2,487.8	-4.8	146.1	23.4	0.00	0.00	0.00
2,550.0	10.79	91.87	2,536.9	-5.1	155.5	24.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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	10.79	91.87	2,586.0	-5.4	164.8	26.4	0.00	0.00	0.00
2,650.0	10.79	91.87	2,635.1	-5.7	174.2	27.9	0.00	0.00	0.00
2,700.0	10.79	91.87	2,684.3	-6.0	183.5	29.4	0.00	0.00	0.00
2,750.0	10.79	91.87	2,733.4	-6.3	192.9	30.9	0.00	0.00	0.00
2,800.0	10.79	91.87	2,782.5	-6.6	202.3	32.4	0.00	0.00	0.00
2,850.0	10.79	91.87	2,831.6	-6.9	211.6	33.9	0.00	0.00	0.00
2,900.0	10.79	91.87	2,880.7	-7.2	221.0	35.4	0.00	0.00	0.00
2,950.0	10.79	91.87	2,929.8	-7.5	230.3	36.9	0.00	0.00	0.00
3,000.0	10.79	91.87	2,979.0	-7.8	239.7	38.4	0.00	0.00	0.00
3,050.0	10.79	91.87	3,028.1	-8.1	249.0	39.9	0.00	0.00	0.00
3,100.0	10.79	91.87	3,077.2	-8.4	258.4	41.4	0.00	0.00	0.00
3,150.0	10.79	91.87	3,126.3	-8.7	267.7	42.9	0.00	0.00	0.00
3,200.0	10.79	91.87	3,175.4	-9.0	277.1	44.4	0.00	0.00	0.00
3,250.0	10.79	91.87	3,224.5	-9.3	286.4	45.9	0.00	0.00	0.00
3,300.0	10.79	91.87	3,273.7	-9.7	295.8	47.4	0.00	0.00	0.00
3,350.0	10.79	91.87	3,322.8	-10.0	305.2	48.9	0.00	0.00	0.00
3,400.0	10.79	91.87	3,371.9	-10.3	314.5	50.4	0.00	0.00	0.00
3,450.0	10.79	91.87	3,421.0	-10.6	323.9	51.8	0.00	0.00	0.00
3,500.0	10.79	91.87	3,470.1	-10.9	333.2	53.3	0.00	0.00	0.00
3,550.0	10.79	91.87	3,519.2	-11.2	342.6	54.8	0.00	0.00	0.00
3,600.0	10.79	91.87	3,568.4	-11.5	351.9	56.3	0.00	0.00	0.00
3,650.0	10.79	91.87	3,617.5	-11.8	361.3	57.8	0.00	0.00	0.00
3,700.0	10.79	91.87	3,666.6	-12.1	370.6	59.3	0.00	0.00	0.00
3,750.0	10.79	91.87	3,715.7	-12.4	380.0	60.8	0.00	0.00	0.00
3,800.0	10.79	91.87	3,764.8	-12.7	389.3	62.3	0.00	0.00	0.00
3,850.0	10.79	91.87	3,813.9	-13.0	398.7	63.8	0.00	0.00	0.00
3,900.0	10.79	91.87	3,863.0	-13.3	408.0	65.3	0.00	0.00	0.00
3,950.0	10.79	91.87	3,912.2	-13.6	417.4	66.8	0.00	0.00	0.00
4,000.0	10.79	91.87	3,961.3	-13.9	426.8	68.3	0.00	0.00	0.00
4,050.0	10.79	91.87	4,010.4	-14.2	436.1	69.8	0.00	0.00	0.00
4,100.0	10.79	91.87	4,059.5	-14.5	445.5	71.3	0.00	0.00	0.00
4,150.0	10.79	91.87	4,108.6	-14.8	454.8	72.8	0.00	0.00	0.00
4,200.0	10.79	91.87	4,157.7	-15.1	464.2	74.3	0.00	0.00	0.00
4,250.0	10.79	91.87	4,206.9	-15.5	473.5	75.8	0.00	0.00	0.00
4,300.0	10.79	91.87	4,256.0	-15.8	482.9	77.3	0.00	0.00	0.00
4,350.0	10.79	91.87	4,305.1	-16.1	492.2	78.8	0.00	0.00	0.00
4,400.0	10.79	91.87	4,354.2	-16.4	501.6	80.3	0.00	0.00	0.00
4,450.0	10.79	91.87	4,403.3	-16.7	510.9	81.8	0.00	0.00	0.00
4,500.0	10.79	91.87	4,452.4	-17.0	520.3	83.3	0.00	0.00	0.00
4,550.0	10.79	91.87	4,501.6	-17.3	529.7	84.8	0.00	0.00	0.00
4,600.0	10.79	91.87	4,550.7	-17.6	539.0	86.3	0.00	0.00	0.00
4,650.0	10.79	91.87	4,599.8	-17.9	548.4	87.8	0.00	0.00	0.00
4,700.0	10.79	91.87	4,648.9	-18.2	557.7	89.3	0.00	0.00	0.00
4,750.0	10.79	91.87	4,698.0	-18.5	567.1	90.8	0.00	0.00	0.00
4,800.0	10.79	91.87	4,747.1	-18.8	576.4	92.3	0.00	0.00	0.00
4,850.0	10.79	91.87	4,796.3	-19.1	585.8	93.8	0.00	0.00	0.00
4,900.0	10.79	91.87	4,845.4	-19.4	595.1	95.3	0.00	0.00	0.00
4,950.0	10.79	91.87	4,894.5	-19.7	604.5	96.8	0.00	0.00	0.00
5,000.0	10.79	91.87	4,943.6	-20.0	613.8	98.3	0.00	0.00	0.00
5,050.0	10.79	91.87	4,992.7	-20.3	623.2	99.8	0.00	0.00	0.00
5,100.0	10.79	91.87	5,041.8	-20.6	632.5	101.3	0.00	0.00	0.00
5,150.0	10.79	91.87	5,091.0	-20.9	641.9	102.8	0.00	0.00	0.00
5,200.0	10.79	91.87	5,140.1	-21.2	651.3	104.3	0.00	0.00	0.00
5,250.0	10.79	91.87	5,189.2	-21.6	660.6	105.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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	10.79	91.87	5,238.3	-21.9	670.0	107.3	0.00	0.00	0.00
5,350.0	10.79	91.87	5,287.4	-22.2	679.3	108.8	0.00	0.00	0.00
5,400.0	10.79	91.87	5,336.5	-22.5	688.7	110.3	0.00	0.00	0.00
5,450.0	10.79	91.87	5,385.7	-22.8	698.0	111.7	0.00	0.00	0.00
5,500.0	10.79	91.87	5,434.8	-23.1	707.4	113.2	0.00	0.00	0.00
5,550.0	10.79	91.87	5,483.9	-23.4	716.7	114.7	0.00	0.00	0.00
5,600.0	10.79	91.87	5,533.0	-23.7	726.1	116.2	0.00	0.00	0.00
5,650.0	10.79	91.87	5,582.1	-24.0	735.4	117.7	0.00	0.00	0.00
5,700.0	10.79	91.87	5,631.2	-24.3	744.8	119.2	0.00	0.00	0.00
5,750.0	10.79	91.87	5,680.3	-24.6	754.2	120.7	0.00	0.00	0.00
5,800.0	10.79	91.87	5,729.5	-24.9	763.5	122.2	0.00	0.00	0.00
5,850.0	10.79	91.87	5,778.6	-25.2	772.9	123.7	0.00	0.00	0.00
5,900.0	10.79	91.87	5,827.7	-25.5	782.2	125.2	0.00	0.00	0.00
5,950.0	10.79	91.87	5,876.8	-25.8	791.6	126.7	0.00	0.00	0.00
6,000.0	10.79	91.87	5,925.9	-26.1	800.9	128.2	0.00	0.00	0.00
6,050.0	10.79	91.87	5,975.0	-26.4	810.3	129.7	0.00	0.00	0.00
6,100.0	10.79	91.87	6,024.2	-26.7	819.6	131.2	0.00	0.00	0.00
6,150.0	10.79	91.87	6,073.3	-27.0	829.0	132.7	0.00	0.00	0.00
6,200.0	10.79	91.87	6,122.4	-27.4	838.3	134.2	0.00	0.00	0.00
6,250.0	10.79	91.87	6,171.5	-27.7	847.7	135.7	0.00	0.00	0.00
6,300.0	10.79	91.87	6,220.6	-28.0	857.0	137.2	0.00	0.00	0.00
6,350.0	10.79	91.87	6,269.7	-28.3	866.4	138.7	0.00	0.00	0.00
6,400.0	10.79	91.87	6,318.9	-28.6	875.8	140.2	0.00	0.00	0.00
6,450.0	10.79	91.87	6,368.0	-28.9	885.1	141.7	0.00	0.00	0.00
6,500.0	10.79	91.87	6,417.1	-29.2	894.5	143.2	0.00	0.00	0.00
6,550.0	10.79	91.87	6,466.2	-29.5	903.8	144.7	0.00	0.00	0.00
6,600.0	10.79	91.87	6,515.3	-29.8	913.2	146.2	0.00	0.00	0.00
6,650.0	10.79	91.87	6,564.4	-30.1	922.5	147.7	0.00	0.00	0.00
6,700.0	10.79	91.87	6,613.6	-30.4	931.9	149.2	0.00	0.00	0.00
6,750.0	10.79	91.87	6,662.7	-30.7	941.2	150.7	0.00	0.00	0.00
6,800.0	10.79	91.87	6,711.8	-31.0	950.6	152.2	0.00	0.00	0.00
6,850.0	10.79	91.87	6,760.9	-31.3	959.9	153.7	0.00	0.00	0.00
6,900.0	10.79	91.87	6,810.0	-31.6	969.3	155.2	0.00	0.00	0.00
6,950.0	10.79	91.87	6,859.1	-31.9	978.7	156.7	0.00	0.00	0.00
7,000.0	10.79	91.87	6,908.3	-32.2	988.0	158.2	0.00	0.00	0.00
7,050.0	10.79	91.87	6,957.4	-32.5	997.4	159.7	0.00	0.00	0.00
7,100.0	10.79	91.87	7,006.5	-32.8	1,006.7	161.2	0.00	0.00	0.00
7,150.0	10.79	91.87	7,055.6	-33.2	1,016.1	162.7	0.00	0.00	0.00
7,200.0	10.79	91.87	7,104.7	-33.5	1,025.4	164.2	0.00	0.00	0.00
7,250.0	10.79	91.87	7,153.8	-33.8	1,034.8	165.7	0.00	0.00	0.00
7,300.0	10.79	91.87	7,203.0	-34.1	1,044.1	167.2	0.00	0.00	0.00
7,350.0	10.79	91.87	7,252.1	-34.4	1,053.5	168.7	0.00	0.00	0.00
7,400.0	10.79	91.87	7,301.2	-34.7	1,062.8	170.2	0.00	0.00	0.00
7,450.0	10.79	91.87	7,350.3	-35.0	1,072.2	171.7	0.00	0.00	0.00
7,500.0	10.79	91.87	7,399.4	-35.3	1,081.5	173.1	0.00	0.00	0.00
7,550.0	10.79	91.87	7,448.5	-35.6	1,090.9	174.6	0.00	0.00	0.00
7,600.0	10.79	91.87	7,497.7	-35.9	1,100.3	176.1	0.00	0.00	0.00
7,650.0	10.79	91.87	7,546.8	-36.2	1,109.6	177.6	0.00	0.00	0.00
7,700.0	10.79	91.87	7,595.9	-36.5	1,119.0	179.1	0.00	0.00	0.00
7,750.0	10.79	91.87	7,645.0	-36.8	1,128.3	180.6	0.00	0.00	0.00
7,800.0	10.79	91.87	7,694.1	-37.1	1,137.7	182.1	0.00	0.00	0.00
7,850.0	10.79	91.87	7,743.2	-37.4	1,147.0	183.6	0.00	0.00	0.00
7,900.0	10.79	91.87	7,792.3	-37.7	1,156.4	185.1	0.00	0.00	0.00
7,950.0	10.79	91.87	7,841.5	-38.0	1,165.7	186.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
8,000.0	10.79	91.87	7,890.6	-38.3	1,175.1	188.1	0.00	0.00	0.00
8,050.0	10.79	91.87	7,939.7	-38.6	1,184.4	189.6	0.00	0.00	0.00
8,100.0	10.79	91.87	7,988.8	-39.0	1,193.8	191.1	0.00	0.00	0.00
8,150.0	10.79	91.87	8,037.9	-39.3	1,203.2	192.6	0.00	0.00	0.00
8,200.0	10.79	91.87	8,087.0	-39.6	1,212.5	194.1	0.00	0.00	0.00
8,250.0	10.79	91.87	8,136.2	-39.9	1,221.9	195.6	0.00	0.00	0.00
8,300.0	10.79	91.87	8,185.3	-40.2	1,231.2	197.1	0.00	0.00	0.00
8,350.0	10.79	91.87	8,234.4	-40.5	1,240.6	198.6	0.00	0.00	0.00
8,400.0	10.79	91.87	8,283.5	-40.8	1,249.9	200.1	0.00	0.00	0.00
8,450.0	10.79	91.87	8,332.6	-41.1	1,259.3	201.6	0.00	0.00	0.00
8,500.0	10.79	91.87	8,381.7	-41.4	1,268.6	203.1	0.00	0.00	0.00
8,550.0	10.79	91.87	8,430.9	-41.7	1,278.0	204.6	0.00	0.00	0.00
8,558.0	10.79	91.87	8,438.8	-41.7	1,279.5	204.8	0.00	0.00	0.00
8,600.0	9.95	91.87	8,480.0	-42.0	1,287.0	206.0	2.00	-2.00	0.00
8,650.0	8.95	91.87	8,529.4	-42.3	1,295.2	207.4	2.00	-2.00	0.00
8,700.0	7.95	91.87	8,578.8	-42.5	1,302.6	208.5	2.00	-2.00	0.00
8,750.0	6.95	91.87	8,628.4	-42.7	1,309.1	209.6	2.00	-2.00	0.00
8,800.0	5.95	91.87	8,678.1	-42.9	1,314.7	210.5	2.00	-2.00	0.00
8,850.0	4.95	91.87	8,727.8	-43.1	1,319.4	211.2	2.00	-2.00	0.00
8,900.0	3.95	91.87	8,777.7	-43.2	1,323.3	211.9	2.00	-2.00	0.00
8,950.0	2.95	91.87	8,827.6	-43.3	1,326.3	212.3	2.00	-2.00	0.00
9,000.0	1.95	91.87	8,877.6	-43.3	1,328.4	212.7	2.00	-2.00	0.00
9,050.0	0.95	91.87	8,927.5	-43.4	1,329.7	212.9	2.00	-2.00	0.00
9,097.5	0.00	0.00	8,975.0	-43.4	1,330.1	212.9	2.00	-2.00	0.00
KOP: 473' FSL & 500' FEL (Sec 18)									
9,100.0	0.25	179.56	8,977.5	-43.4	1,330.1	212.9	10.00	10.00	0.00
9,150.0	5.25	179.56	9,027.5	-45.8	1,330.1	215.3	10.00	10.00	0.00
9,200.0	10.25	179.56	9,077.0	-52.5	1,330.2	222.0	10.00	10.00	0.00
9,250.0	15.25	179.56	9,125.7	-63.6	1,330.3	233.0	10.00	10.00	0.00
9,300.0	20.25	179.56	9,173.3	-78.8	1,330.4	248.1	10.00	10.00	0.00
9,350.0	25.25	179.56	9,219.4	-98.1	1,330.5	267.3	10.00	10.00	0.00
9,400.0	30.25	179.56	9,263.7	-121.4	1,330.7	290.4	10.00	10.00	0.00
9,450.0	35.24	179.56	9,305.7	-148.4	1,330.9	317.2	10.00	10.00	0.00
9,500.0	40.24	179.56	9,345.2	-179.0	1,331.1	347.6	10.00	10.00	0.00
9,550.0	45.24	179.56	9,382.0	-213.0	1,331.4	381.3	10.00	10.00	0.00
9,600.0	50.24	179.56	9,415.6	-250.0	1,331.7	418.0	10.00	10.00	0.00
9,650.0	55.24	179.56	9,445.8	-289.7	1,332.0	457.5	10.00	10.00	0.00
9,700.0	60.24	179.56	9,472.5	-332.0	1,332.3	499.5	10.00	10.00	0.00
9,750.0	65.24	179.56	9,495.4	-376.4	1,332.6	543.6	10.00	10.00	0.00
9,800.0	70.23	179.56	9,514.3	-422.7	1,333.0	589.5	10.00	10.00	0.00
9,850.0	75.23	179.56	9,529.2	-470.4	1,333.4	636.9	10.00	10.00	0.00
9,900.0	80.23	179.56	9,539.8	-519.3	1,333.7	685.4	10.00	10.00	0.00
9,950.0	85.23	179.56	9,546.1	-568.8	1,334.1	734.6	10.00	10.00	0.00
9,986.3	88.86	179.56	9,548.0	-605.1	1,334.4	770.6	10.00	10.00	0.00
9,997.4	88.86	179.56	9,548.2	-616.2	1,334.5	781.6	0.00	0.00	0.00
FTP/LP: 100' FNL & 500' FEL (Sec 19)									
10,000.0	88.86	179.56	9,548.3	-618.8	1,334.5	784.2	0.00	0.00	0.00
10,050.0	88.86	179.56	9,549.3	-668.8	1,334.9	833.8	0.00	0.00	0.00
10,100.0	88.86	179.56	9,550.3	-718.8	1,335.2	883.4	0.00	0.00	0.00
10,150.0	88.86	179.56	9,551.3	-768.8	1,335.6	933.1	0.00	0.00	0.00
10,200.0	88.86	179.56	9,552.2	-818.7	1,336.0	982.7	0.00	0.00	0.00
10,250.0	88.86	179.56	9,553.2	-868.7	1,336.4	1,032.3	0.00	0.00	0.00
10,300.0	88.86	179.56	9,554.2	-918.7	1,336.8	1,081.9	0.00	0.00	0.00
10,350.0	88.86	179.56	9,555.2	-968.7	1,337.1	1,131.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
10,400.0	88.86	179.56	9,556.2	-1,018.7	1,337.5	1,181.2	0.00	0.00	0.00
10,450.0	88.86	179.56	9,557.2	-1,068.7	1,337.9	1,230.8	0.00	0.00	0.00
10,500.0	88.86	179.56	9,558.2	-1,118.7	1,338.3	1,280.5	0.00	0.00	0.00
10,550.0	88.86	179.56	9,559.2	-1,168.7	1,338.7	1,330.1	0.00	0.00	0.00
10,600.0	88.86	179.56	9,560.2	-1,218.7	1,339.0	1,379.7	0.00	0.00	0.00
10,650.0	88.86	179.56	9,561.2	-1,268.6	1,339.4	1,429.3	0.00	0.00	0.00
10,700.0	88.86	179.56	9,562.2	-1,318.6	1,339.8	1,479.0	0.00	0.00	0.00
10,750.0	88.86	179.56	9,563.2	-1,368.6	1,340.2	1,528.6	0.00	0.00	0.00
10,800.0	88.86	179.56	9,564.2	-1,418.6	1,340.6	1,578.2	0.00	0.00	0.00
10,850.0	88.86	179.56	9,565.2	-1,468.6	1,340.9	1,627.8	0.00	0.00	0.00
10,900.0	88.86	179.56	9,566.1	-1,518.6	1,341.3	1,677.5	0.00	0.00	0.00
10,950.0	88.86	179.56	9,567.1	-1,568.6	1,341.7	1,727.1	0.00	0.00	0.00
11,000.0	88.86	179.56	9,568.1	-1,618.6	1,342.1	1,776.7	0.00	0.00	0.00
11,050.0	88.86	179.56	9,569.1	-1,668.5	1,342.5	1,826.4	0.00	0.00	0.00
11,100.0	88.86	179.56	9,570.1	-1,718.5	1,342.9	1,876.0	0.00	0.00	0.00
11,150.0	88.86	179.56	9,571.1	-1,768.5	1,343.2	1,925.6	0.00	0.00	0.00
11,200.0	88.86	179.56	9,572.1	-1,818.5	1,343.6	1,975.2	0.00	0.00	0.00
11,217.5	88.86	179.56	9,572.5	-1,836.0	1,343.7	1,992.6	0.00	0.00	0.00
PPP2: 1220' FNL & 500' FEL (Sec 19)									
11,250.0	88.86	179.56	9,573.1	-1,868.5	1,344.0	2,024.9	0.00	0.00	0.00
11,300.0	88.86	179.56	9,574.1	-1,918.5	1,344.4	2,074.5	0.00	0.00	0.00
11,350.0	88.86	179.56	9,575.1	-1,968.5	1,344.8	2,124.1	0.00	0.00	0.00
11,400.0	88.86	179.56	9,576.1	-2,018.5	1,345.1	2,173.8	0.00	0.00	0.00
11,450.0	88.86	179.56	9,577.1	-2,068.5	1,345.5	2,223.4	0.00	0.00	0.00
11,500.0	88.86	179.56	9,578.1	-2,118.4	1,345.9	2,273.0	0.00	0.00	0.00
11,550.0	88.86	179.56	9,579.1	-2,168.4	1,346.3	2,322.6	0.00	0.00	0.00
11,600.0	88.86	179.56	9,580.1	-2,218.4	1,346.7	2,372.3	0.00	0.00	0.00
11,650.0	88.86	179.56	9,581.0	-2,268.4	1,347.0	2,421.9	0.00	0.00	0.00
11,700.0	88.86	179.56	9,582.0	-2,318.4	1,347.4	2,471.5	0.00	0.00	0.00
11,750.0	88.86	179.56	9,583.0	-2,368.4	1,347.8	2,521.1	0.00	0.00	0.00
11,800.0	88.86	179.56	9,584.0	-2,418.4	1,348.2	2,570.8	0.00	0.00	0.00
11,850.0	88.86	179.56	9,585.0	-2,468.4	1,348.6	2,620.4	0.00	0.00	0.00
11,900.0	88.86	179.56	9,586.0	-2,518.4	1,348.9	2,670.0	0.00	0.00	0.00
11,950.0	88.86	179.56	9,587.0	-2,568.3	1,349.3	2,719.7	0.00	0.00	0.00
12,000.0	88.86	179.56	9,588.0	-2,618.3	1,349.7	2,769.3	0.00	0.00	0.00
12,050.0	88.86	179.56	9,589.0	-2,668.3	1,350.1	2,818.9	0.00	0.00	0.00
12,100.0	88.86	179.56	9,590.0	-2,718.3	1,350.5	2,868.5	0.00	0.00	0.00
12,150.0	88.86	179.56	9,591.0	-2,768.3	1,350.8	2,918.2	0.00	0.00	0.00
12,200.0	88.86	179.56	9,592.0	-2,818.3	1,351.2	2,967.8	0.00	0.00	0.00
12,250.0	88.86	179.56	9,593.0	-2,868.3	1,351.6	3,017.4	0.00	0.00	0.00
12,300.0	88.86	179.56	9,594.0	-2,918.3	1,352.0	3,067.1	0.00	0.00	0.00
12,350.0	88.86	179.56	9,594.9	-2,968.3	1,352.4	3,116.7	0.00	0.00	0.00
12,400.0	88.86	179.56	9,595.9	-3,018.2	1,352.7	3,166.3	0.00	0.00	0.00
12,450.0	88.86	179.56	9,596.9	-3,068.2	1,353.1	3,215.9	0.00	0.00	0.00
12,500.0	88.86	179.56	9,597.9	-3,118.2	1,353.5	3,265.6	0.00	0.00	0.00
12,550.0	88.86	179.56	9,598.9	-3,168.2	1,353.9	3,315.2	0.00	0.00	0.00
12,600.0	88.86	179.56	9,599.9	-3,218.2	1,354.3	3,364.8	0.00	0.00	0.00
12,650.0	88.86	179.56	9,600.9	-3,268.2	1,354.6	3,414.4	0.00	0.00	0.00
12,700.0	88.86	179.56	9,601.9	-3,318.2	1,355.0	3,464.1	0.00	0.00	0.00
12,750.0	88.86	179.56	9,602.9	-3,368.2	1,355.4	3,513.7	0.00	0.00	0.00
12,800.0	88.86	179.56	9,603.9	-3,418.2	1,355.8	3,563.3	0.00	0.00	0.00
12,850.0	88.86	179.56	9,604.9	-3,468.1	1,356.2	3,613.0	0.00	0.00	0.00
12,900.0	88.86	179.56	9,605.9	-3,518.1	1,356.5	3,662.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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	88.86	179.56	9,606.9	-3,568.1	1,356.9	3,712.2	0.00	0.00	0.00
13,000.0	88.86	179.56	9,607.9	-3,618.1	1,357.3	3,761.8	0.00	0.00	0.00
13,050.0	88.86	179.56	9,608.9	-3,668.1	1,357.7	3,811.5	0.00	0.00	0.00
13,100.0	88.86	179.56	9,609.8	-3,718.1	1,358.1	3,861.1	0.00	0.00	0.00
13,150.0	88.86	179.56	9,610.8	-3,768.1	1,358.5	3,910.7	0.00	0.00	0.00
13,200.0	88.86	179.56	9,611.8	-3,818.1	1,358.8	3,960.4	0.00	0.00	0.00
13,250.0	88.86	179.56	9,612.8	-3,868.1	1,359.2	4,010.0	0.00	0.00	0.00
13,300.0	88.86	179.56	9,613.8	-3,918.0	1,359.6	4,059.6	0.00	0.00	0.00
13,350.0	88.86	179.56	9,614.8	-3,968.0	1,360.0	4,109.2	0.00	0.00	0.00
13,400.0	88.86	179.56	9,615.8	-4,018.0	1,360.4	4,158.9	0.00	0.00	0.00
13,450.0	88.86	179.56	9,616.8	-4,068.0	1,360.7	4,208.5	0.00	0.00	0.00
13,500.0	88.86	179.56	9,617.8	-4,118.0	1,361.1	4,258.1	0.00	0.00	0.00
13,550.0	88.86	179.56	9,618.8	-4,168.0	1,361.5	4,307.7	0.00	0.00	0.00
13,600.0	88.86	179.56	9,619.8	-4,218.0	1,361.9	4,357.4	0.00	0.00	0.00
13,650.0	88.86	179.56	9,620.8	-4,268.0	1,362.3	4,407.0	0.00	0.00	0.00
13,700.0	88.86	179.56	9,621.8	-4,317.9	1,362.6	4,456.6	0.00	0.00	0.00
13,750.0	88.86	179.56	9,622.8	-4,367.9	1,363.0	4,506.3	0.00	0.00	0.00
13,800.0	88.86	179.56	9,623.7	-4,417.9	1,363.4	4,555.9	0.00	0.00	0.00
13,850.0	88.86	179.56	9,624.7	-4,467.9	1,363.8	4,605.5	0.00	0.00	0.00
13,900.0	88.86	179.56	9,625.7	-4,517.9	1,364.2	4,655.1	0.00	0.00	0.00
13,950.0	88.86	179.56	9,626.7	-4,567.9	1,364.5	4,704.8	0.00	0.00	0.00
14,000.0	88.86	179.56	9,627.7	-4,617.9	1,364.9	4,754.4	0.00	0.00	0.00
14,050.0	88.86	179.56	9,628.7	-4,667.9	1,365.3	4,804.0	0.00	0.00	0.00
14,100.0	88.86	179.56	9,629.7	-4,717.9	1,365.7	4,853.7	0.00	0.00	0.00
14,150.0	88.86	179.56	9,630.7	-4,767.8	1,366.1	4,903.3	0.00	0.00	0.00
14,200.0	88.86	179.56	9,631.7	-4,817.8	1,366.4	4,952.9	0.00	0.00	0.00
14,250.0	88.86	179.56	9,632.7	-4,867.8	1,366.8	5,002.5	0.00	0.00	0.00
14,300.0	88.86	179.56	9,633.7	-4,917.8	1,367.2	5,052.2	0.00	0.00	0.00
14,350.0	88.86	179.56	9,634.7	-4,967.8	1,367.6	5,101.8	0.00	0.00	0.00
14,400.0	88.86	179.56	9,635.7	-5,017.8	1,368.0	5,151.4	0.00	0.00	0.00
14,450.0	88.86	179.56	9,636.7	-5,067.8	1,368.3	5,201.0	0.00	0.00	0.00
14,500.0	88.86	179.56	9,637.7	-5,117.8	1,368.7	5,250.7	0.00	0.00	0.00
14,550.0	88.86	179.56	9,638.6	-5,167.8	1,369.1	5,300.3	0.00	0.00	0.00
14,600.0	88.86	179.56	9,639.6	-5,217.7	1,369.5	5,349.9	0.00	0.00	0.00
14,650.0	88.86	179.56	9,640.6	-5,267.7	1,369.9	5,399.6	0.00	0.00	0.00
14,700.0	88.86	179.56	9,641.6	-5,317.7	1,370.2	5,449.2	0.00	0.00	0.00
14,750.0	88.86	179.56	9,642.6	-5,367.7	1,370.6	5,498.8	0.00	0.00	0.00
14,800.0	88.86	179.56	9,643.6	-5,417.7	1,371.0	5,548.4	0.00	0.00	0.00
14,850.0	88.86	179.56	9,644.6	-5,467.7	1,371.4	5,598.1	0.00	0.00	0.00
14,900.0	88.86	179.56	9,645.6	-5,517.7	1,371.8	5,647.7	0.00	0.00	0.00
14,950.0	88.86	179.56	9,646.6	-5,567.7	1,372.1	5,697.3	0.00	0.00	0.00
15,000.0	88.86	179.56	9,647.6	-5,617.7	1,372.5	5,747.0	0.00	0.00	0.00
15,050.0	88.86	179.56	9,648.6	-5,667.6	1,372.9	5,796.6	0.00	0.00	0.00
15,100.0	88.86	179.56	9,649.6	-5,717.6	1,373.3	5,846.2	0.00	0.00	0.00
15,150.0	88.86	179.56	9,650.6	-5,767.6	1,373.7	5,895.8	0.00	0.00	0.00
15,200.0	88.86	179.56	9,651.6	-5,817.6	1,374.1	5,945.5	0.00	0.00	0.00
15,250.0	88.86	179.56	9,652.6	-5,867.6	1,374.4	5,995.1	0.00	0.00	0.00
15,300.0	88.86	179.56	9,653.5	-5,917.6	1,374.8	6,044.7	0.00	0.00	0.00
15,350.0	88.86	179.56	9,654.5	-5,967.6	1,375.2	6,094.3	0.00	0.00	0.00
15,400.0	88.86	179.56	9,655.5	-6,017.6	1,375.6	6,144.0	0.00	0.00	0.00
15,450.0	88.86	179.56	9,656.5	-6,067.6	1,376.0	6,193.6	0.00	0.00	0.00
15,500.0	88.86	179.56	9,657.5	-6,117.5	1,376.3	6,243.2	0.00	0.00	0.00
15,550.0	88.86	179.56	9,658.5	-6,167.5	1,376.7	6,292.9	0.00	0.00	0.00
15,600.0	88.86	179.56	9,659.5	-6,217.5	1,377.1	6,342.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
15,650.0	88.86	179.56	9,660.5	-6,267.5	1,377.5	6,392.1	0.00	0.00	0.00
15,700.0	88.86	179.56	9,661.5	-6,317.5	1,377.9	6,441.7	0.00	0.00	0.00
15,750.0	88.86	179.56	9,662.5	-6,367.5	1,378.2	6,491.4	0.00	0.00	0.00
15,800.0	88.86	179.56	9,663.5	-6,417.5	1,378.6	6,541.0	0.00	0.00	0.00
15,850.0	88.86	179.56	9,664.5	-6,467.5	1,379.0	6,590.6	0.00	0.00	0.00
15,900.0	88.86	179.56	9,665.5	-6,517.5	1,379.4	6,640.3	0.00	0.00	0.00
15,950.0	88.86	179.56	9,666.5	-6,567.4	1,379.8	6,689.9	0.00	0.00	0.00
16,000.0	88.86	179.56	9,667.4	-6,617.4	1,380.1	6,739.5	0.00	0.00	0.00
16,050.0	88.86	179.56	9,668.4	-6,667.4	1,380.5	6,789.1	0.00	0.00	0.00
16,100.0	88.86	179.56	9,669.4	-6,717.4	1,380.9	6,838.8	0.00	0.00	0.00
16,150.0	88.86	179.56	9,670.4	-6,767.4	1,381.3	6,888.4	0.00	0.00	0.00
16,200.0	88.86	179.56	9,671.4	-6,817.4	1,381.7	6,938.0	0.00	0.00	0.00
16,250.0	88.86	179.56	9,672.4	-6,867.4	1,382.0	6,987.7	0.00	0.00	0.00
16,300.0	88.86	179.56	9,673.4	-6,917.4	1,382.4	7,037.3	0.00	0.00	0.00
16,350.0	88.86	179.56	9,674.4	-6,967.3	1,382.8	7,086.9	0.00	0.00	0.00
16,400.0	88.86	179.56	9,675.4	-7,017.3	1,383.2	7,136.5	0.00	0.00	0.00
16,450.0	88.86	179.56	9,676.4	-7,067.3	1,383.6	7,186.2	0.00	0.00	0.00
16,500.0	88.86	179.56	9,677.4	-7,117.3	1,383.9	7,235.8	0.00	0.00	0.00
16,550.0	88.86	179.56	9,678.4	-7,167.3	1,384.3	7,285.4	0.00	0.00	0.00
16,600.0	88.86	179.56	9,679.4	-7,217.3	1,384.7	7,335.0	0.00	0.00	0.00
16,650.0	88.86	179.56	9,680.4	-7,267.3	1,385.1	7,384.7	0.00	0.00	0.00
16,700.0	88.86	179.56	9,681.4	-7,317.3	1,385.5	7,434.3	0.00	0.00	0.00
16,750.0	88.86	179.56	9,682.3	-7,367.3	1,385.8	7,483.9	0.00	0.00	0.00
16,800.0	88.86	179.56	9,683.3	-7,417.2	1,386.2	7,533.6	0.00	0.00	0.00
16,850.0	88.86	179.56	9,684.3	-7,467.2	1,386.6	7,583.2	0.00	0.00	0.00
16,900.0	88.86	179.56	9,685.3	-7,517.2	1,387.0	7,632.8	0.00	0.00	0.00
16,950.0	88.86	179.56	9,686.3	-7,567.2	1,387.4	7,682.4	0.00	0.00	0.00
17,000.0	88.86	179.56	9,687.3	-7,617.2	1,387.7	7,732.1	0.00	0.00	0.00
17,050.0	88.86	179.56	9,688.3	-7,667.2	1,388.1	7,781.7	0.00	0.00	0.00
17,100.0	88.86	179.56	9,689.3	-7,717.2	1,388.5	7,831.3	0.00	0.00	0.00
17,150.0	88.86	179.56	9,690.3	-7,767.2	1,388.9	7,881.0	0.00	0.00	0.00
17,200.0	88.86	179.56	9,691.3	-7,817.2	1,389.3	7,930.6	0.00	0.00	0.00
17,250.0	88.86	179.56	9,692.3	-7,867.1	1,389.7	7,980.2	0.00	0.00	0.00
17,300.0	88.86	179.56	9,693.3	-7,917.1	1,390.0	8,029.8	0.00	0.00	0.00
17,350.0	88.86	179.56	9,694.3	-7,967.1	1,390.4	8,079.5	0.00	0.00	0.00
17,400.0	88.86	179.56	9,695.3	-8,017.1	1,390.8	8,129.1	0.00	0.00	0.00
17,450.0	88.86	179.56	9,696.2	-8,067.1	1,391.2	8,178.7	0.00	0.00	0.00
17,500.0	88.86	179.56	9,697.2	-8,117.1	1,391.6	8,228.3	0.00	0.00	0.00
17,550.0	88.86	179.56	9,698.2	-8,167.1	1,391.9	8,278.0	0.00	0.00	0.00
17,600.0	88.86	179.56	9,699.2	-8,217.1	1,392.3	8,327.6	0.00	0.00	0.00
17,650.0	88.86	179.56	9,700.2	-8,267.1	1,392.7	8,377.2	0.00	0.00	0.00
17,700.0	88.86	179.56	9,701.2	-8,317.0	1,393.1	8,426.9	0.00	0.00	0.00
17,750.0	88.86	179.56	9,702.2	-8,367.0	1,393.5	8,476.5	0.00	0.00	0.00
17,800.0	88.86	179.56	9,703.2	-8,417.0	1,393.8	8,526.1	0.00	0.00	0.00
17,850.0	88.86	179.56	9,704.2	-8,467.0	1,394.2	8,575.7	0.00	0.00	0.00
17,900.0	88.86	179.56	9,705.2	-8,517.0	1,394.6	8,625.4	0.00	0.00	0.00
17,950.0	88.86	179.56	9,706.2	-8,567.0	1,395.0	8,675.0	0.00	0.00	0.00
18,000.0	88.86	179.56	9,707.2	-8,617.0	1,395.4	8,724.6	0.00	0.00	0.00
18,050.0	88.86	179.56	9,708.2	-8,667.0	1,395.7	8,774.3	0.00	0.00	0.00
18,100.0	88.86	179.56	9,709.2	-8,717.0	1,396.1	8,823.9	0.00	0.00	0.00
18,150.0	88.86	179.56	9,710.2	-8,766.9	1,396.5	8,873.5	0.00	0.00	0.00
18,200.0	88.86	179.56	9,711.1	-8,816.9	1,396.9	8,923.1	0.00	0.00	0.00
18,250.0	88.86	179.56	9,712.1	-8,866.9	1,397.3	8,972.8	0.00	0.00	0.00
18,300.0	88.86	179.56	9,713.1	-8,916.9	1,397.6	9,022.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
Design:	Design #1		

Planned Survey

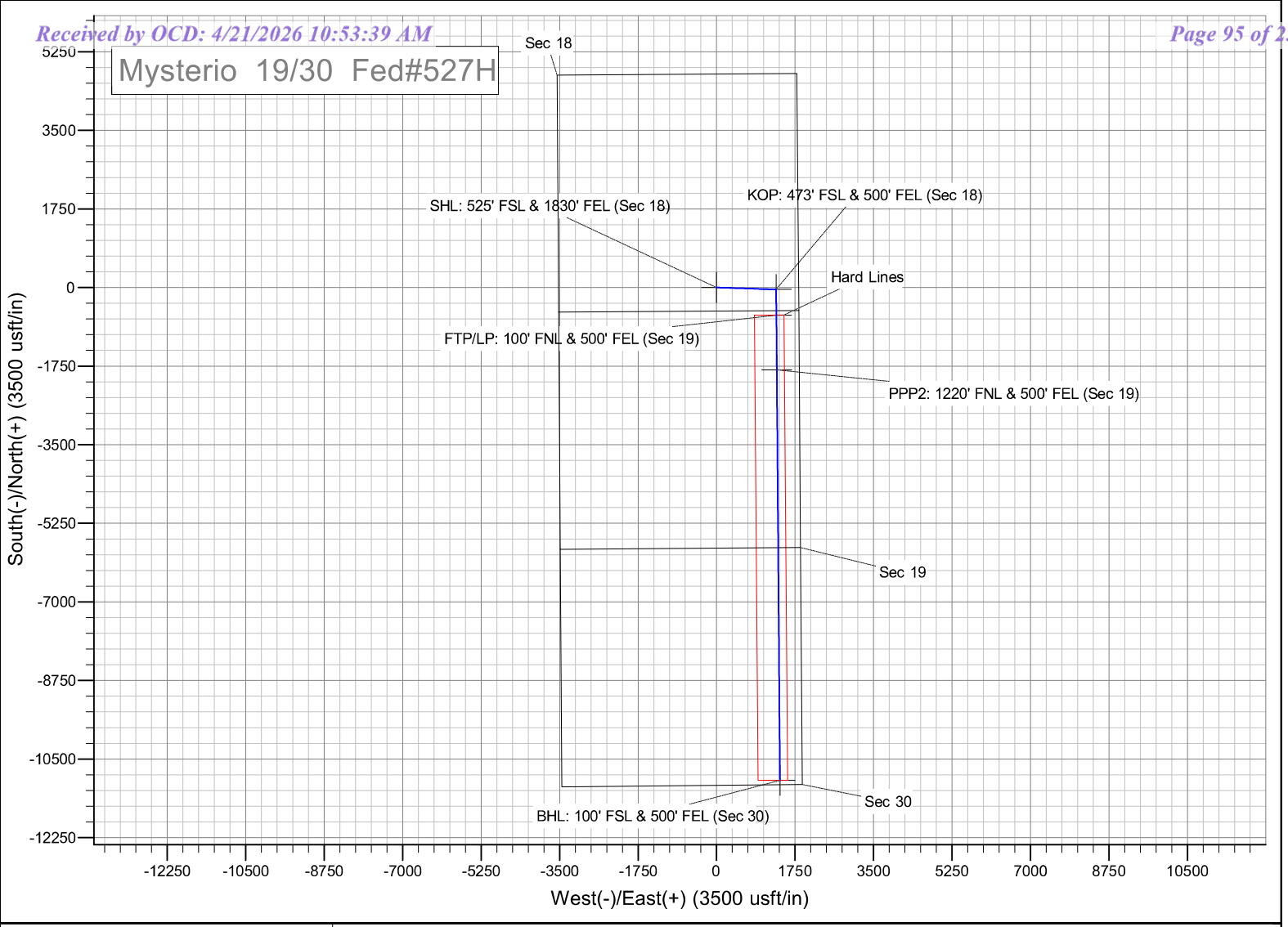
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,350.0	88.86	179.56	9,714.1	-8,966.9	1,398.0	9,072.0	0.00	0.00	0.00
18,400.0	88.86	179.56	9,715.1	-9,016.9	1,398.4	9,121.6	0.00	0.00	0.00
18,450.0	88.86	179.56	9,716.1	-9,066.9	1,398.8	9,171.3	0.00	0.00	0.00
18,500.0	88.86	179.56	9,717.1	-9,116.9	1,399.2	9,220.9	0.00	0.00	0.00
18,550.0	88.86	179.56	9,718.1	-9,166.9	1,399.5	9,270.5	0.00	0.00	0.00
18,600.0	88.86	179.56	9,719.1	-9,216.8	1,399.9	9,320.2	0.00	0.00	0.00
18,650.0	88.86	179.56	9,720.1	-9,266.8	1,400.3	9,369.8	0.00	0.00	0.00
18,700.0	88.86	179.56	9,721.1	-9,316.8	1,400.7	9,419.4	0.00	0.00	0.00
18,750.0	88.86	179.56	9,722.1	-9,366.8	1,401.1	9,469.0	0.00	0.00	0.00
18,800.0	88.86	179.56	9,723.1	-9,416.8	1,401.4	9,518.7	0.00	0.00	0.00
18,850.0	88.86	179.56	9,724.1	-9,466.8	1,401.8	9,568.3	0.00	0.00	0.00
18,900.0	88.86	179.56	9,725.0	-9,516.8	1,402.2	9,617.9	0.00	0.00	0.00
18,950.0	88.86	179.56	9,726.0	-9,566.8	1,402.6	9,667.6	0.00	0.00	0.00
19,000.0	88.86	179.56	9,727.0	-9,616.7	1,403.0	9,717.2	0.00	0.00	0.00
19,050.0	88.86	179.56	9,728.0	-9,666.7	1,403.3	9,766.8	0.00	0.00	0.00
19,100.0	88.86	179.56	9,729.0	-9,716.7	1,403.7	9,816.4	0.00	0.00	0.00
19,150.0	88.86	179.56	9,730.0	-9,766.7	1,404.1	9,866.1	0.00	0.00	0.00
19,200.0	88.86	179.56	9,731.0	-9,816.7	1,404.5	9,915.7	0.00	0.00	0.00
19,250.0	88.86	179.56	9,732.0	-9,866.7	1,404.9	9,965.3	0.00	0.00	0.00
19,300.0	88.86	179.56	9,733.0	-9,916.7	1,405.3	10,014.9	0.00	0.00	0.00
19,350.0	88.86	179.56	9,734.0	-9,966.7	1,405.6	10,064.6	0.00	0.00	0.00
19,400.0	88.86	179.56	9,735.0	-10,016.7	1,406.0	10,114.2	0.00	0.00	0.00
19,450.0	88.86	179.56	9,736.0	-10,066.6	1,406.4	10,163.8	0.00	0.00	0.00
19,500.0	88.86	179.56	9,737.0	-10,116.6	1,406.8	10,213.5	0.00	0.00	0.00
19,550.0	88.86	179.56	9,738.0	-10,166.6	1,407.2	10,263.1	0.00	0.00	0.00
19,600.0	88.86	179.56	9,739.0	-10,216.6	1,407.5	10,312.7	0.00	0.00	0.00
19,650.0	88.86	179.56	9,739.9	-10,266.6	1,407.9	10,362.3	0.00	0.00	0.00
19,700.0	88.86	179.56	9,740.9	-10,316.6	1,408.3	10,412.0	0.00	0.00	0.00
19,750.0	88.86	179.56	9,741.9	-10,366.6	1,408.7	10,461.6	0.00	0.00	0.00
19,800.0	88.86	179.56	9,742.9	-10,416.6	1,409.1	10,511.2	0.00	0.00	0.00
19,850.0	88.86	179.56	9,743.9	-10,466.6	1,409.4	10,560.9	0.00	0.00	0.00
19,900.0	88.86	179.56	9,744.9	-10,516.5	1,409.8	10,610.5	0.00	0.00	0.00
19,950.0	88.86	179.56	9,745.9	-10,566.5	1,410.2	10,660.1	0.00	0.00	0.00
20,000.0	88.86	179.56	9,746.9	-10,616.5	1,410.6	10,709.7	0.00	0.00	0.00
20,050.0	88.86	179.56	9,747.9	-10,666.5	1,411.0	10,759.4	0.00	0.00	0.00
20,100.0	88.86	179.56	9,748.9	-10,716.5	1,411.3	10,809.0	0.00	0.00	0.00
20,150.0	88.86	179.56	9,749.9	-10,766.5	1,411.7	10,858.6	0.00	0.00	0.00
20,200.0	88.86	179.56	9,750.9	-10,816.5	1,412.1	10,908.2	0.00	0.00	0.00
20,250.0	88.86	179.56	9,751.9	-10,866.5	1,412.5	10,957.9	0.00	0.00	0.00
20,300.0	88.86	179.56	9,752.9	-10,916.5	1,412.9	11,007.5	0.00	0.00	0.00
20,350.0	88.86	179.56	9,753.8	-10,966.4	1,413.2	11,057.1	0.00	0.00	0.00
20,357.6	88.86	179.56	9,754.0	-10,974.0	1,413.3	11,064.6	0.00	0.00	0.00
BHL: 100' FSL & 500' FEL (Sec 30)									

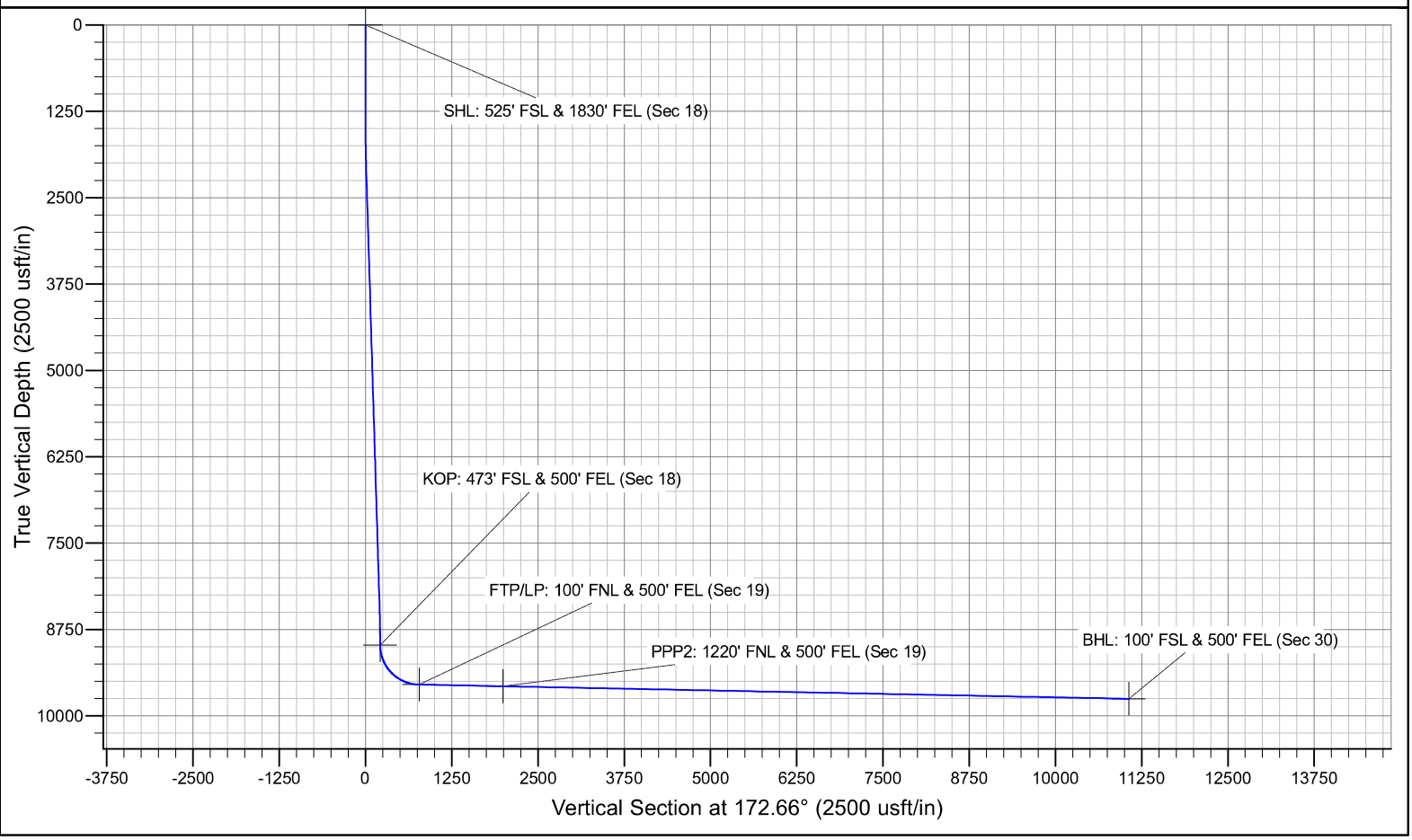
Planning Report

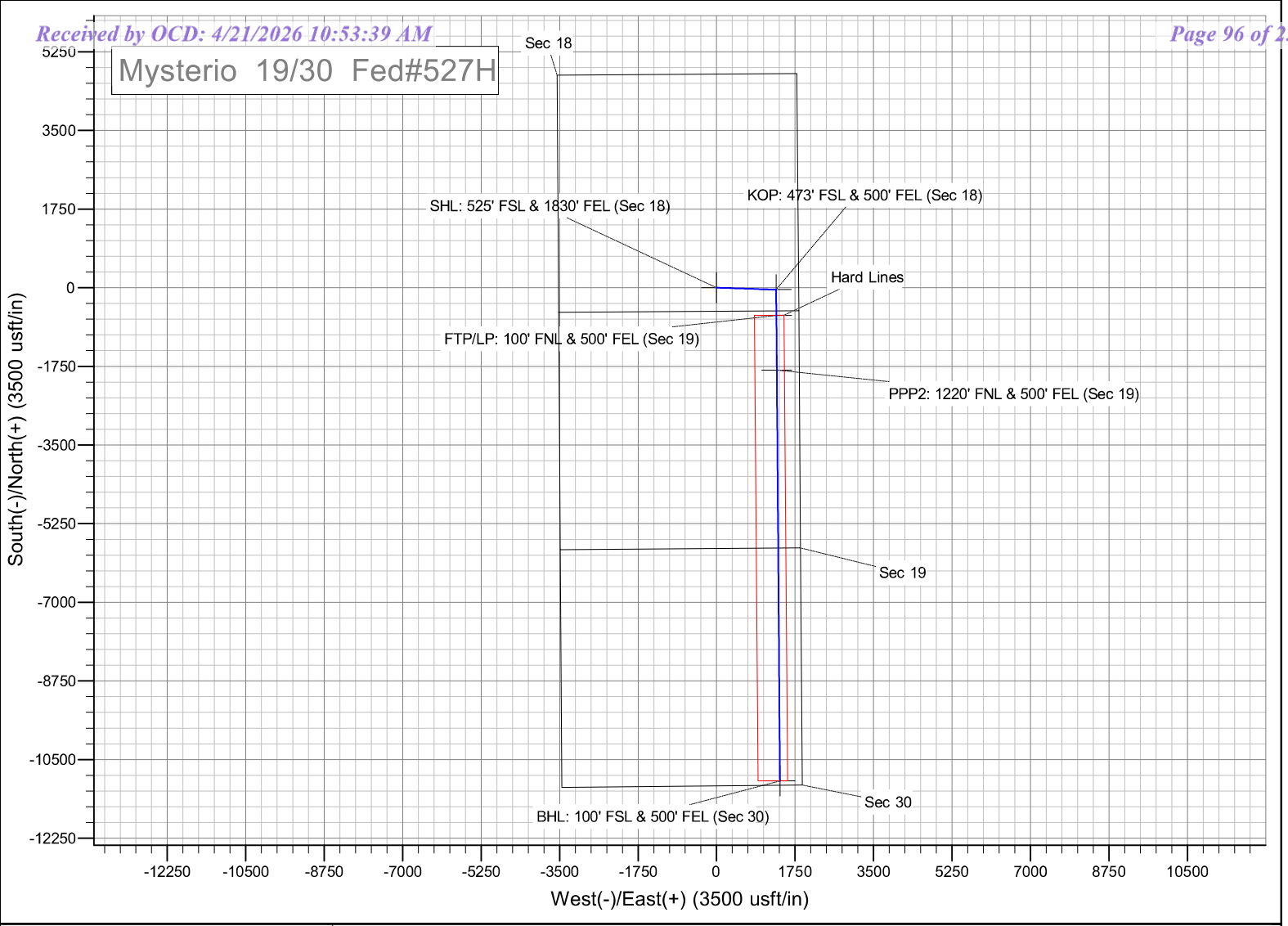
Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
Design:	Design #1		

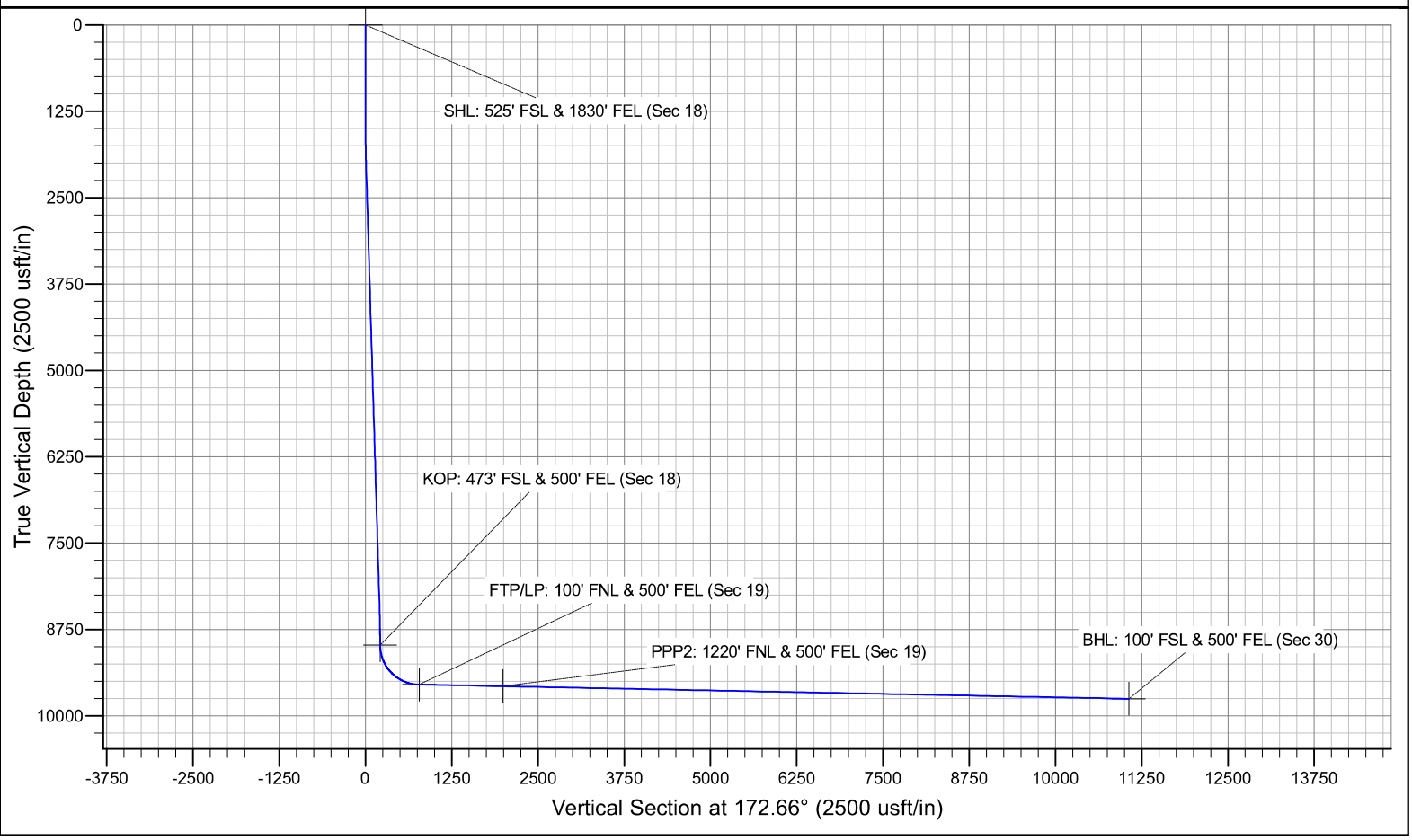
Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 525' FSL & 1830' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	634,119.00	736,130.70	32.7416295	-103.6997969
KOP: 473' FSL & 500' FI - plan hits target center - Point	0.00	0.00	8,975.0	-43.4	1,330.1	634,075.60	737,460.80	32.7414883	-103.6954720
FTP/LP: 100' FNL & 500 - plan hits target center - Point	0.00	0.00	9,548.2	-616.2	1,334.5	633,502.80	737,465.16	32.7399139	-103.6954690
PPP2: 1220' FNL & 500' - plan hits target center - Point	0.00	0.00	9,572.5	-1,836.0	1,343.7	632,283.00	737,474.44	32.7365611	-103.6954627
BHL: 100' FSL & 500' FE - plan hits target center - Point	0.00	0.00	9,754.0	-10,974.0	1,413.3	623,145.00	737,544.00	32.7114440	-103.6954154


Mysterio 19/30 Fed#527H
Sec 18
SHL: 525' FSL & 1830' FEL (Sec 18)
KOP: 473' FSL & 500' FEL (Sec 18)
Hard Lines
FTP/LP: 100' FNL & 500' FEL (Sec 19)
PPP2: 1220' FNL & 500' FEL (Sec 19)
Sec 19
Sec 30
BHL: 100' FSL & 500' FEL (Sec 30)
South(-)/North(+) (3500 usft/in)
West(-)/East(+) (3500 usft/in)
5250
3500
1750
0
-1750
-3500
-5250
-7000
-8750
-10500
-12250
-12250
-10500
-8750
-7000
-5250
-3500
-1750
0
1750
3500
5250
7000
8750
10500


SHL: 525' FSL & 1830' FEL (Sec 18)
KOP: 473' FSL & 500' FEL (Sec 18)
FTP/LP: 100' FNL & 500' FEL (Sec 19)
PPP2: 1220' FNL & 500' FEL (Sec 19)
BHL: 100' FSL & 500' FEL (Sec 30)
True Vertical Depth (2500 usft/in)
Vertical Section at 172.66° (2500 usft/in)
0
1250
2500
3750
5000
6250
7500
8750
10000
-3750
-2500
-1250
0
1250
2500
3750
5000
6250
7500
8750
10000
11250
12500
13750


Mysterio 19/30 Fed#527H
Sec 18
SHL: 525' FSL & 1830' FEL (Sec 18)
KOP: 473' FSL & 500' FEL (Sec 18)
Hard Lines
FTP/LP: 100' FNL & 500' FEL (Sec 19)
PPP2: 1220' FNL & 500' FEL (Sec 19)
Sec 19
Sec 30
BHL: 100' FSL & 500' FEL (Sec 30)
South(-)/North(+) (3500 usft/in)
West(-)/East(+) (3500 usft/in)
5250
3500
1750
0
-1750
-3500
-5250
-7000
-8750
-10500
-12250
-12250
-10500
-8750
-7000
-5250
-3500
-1750
0
1750
3500
5250
7000
8750
10500


SHL: 525' FSL & 1830' FEL (Sec 18)
KOP: 473' FSL & 500' FEL (Sec 18)
FTP/LP: 100' FNL & 500' FEL (Sec 19)
PPP2: 1220' FNL & 500' FEL (Sec 19)
BHL: 100' FSL & 500' FEL (Sec 30)
True Vertical Depth (2500 usft/in)
Vertical Section at 172.66° (2500 usft/in)
0
1250
2500
3750
5000
6250
7500
8750
10000
-3750
-2500
-1250
0
1250
2500
3750
5000
6250
7500
8750
10000
11250
12500
13750

Mewbourne Oil Company

Lea County, New Mexico NAD 83
Mysterio 19/30 Fed #527H
Sec 18, T18S, R33E
SHL: 525' FSL & 1830' FEL (Sec 18)
BHL: 100' FSL & 500' FEL (Sec 30)

Plan: Design #1

Standard Planning Report

22 May, 2025

*Please refer to most recently approved NOI
appended to this application updated changes to well

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
Design:	Design #1		

Project Lea County, New Mexico NAD 83

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Mysterio 19/30 Fed #527H

Site Position:		**Northing:**	634,119.00 usft	**Latitude:**	32.7416295
From:	Map	**Easting:**	736,130.70 usft	**Longitude:**	-103.6997969
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 18, T18S, R33E

Well Position	**+N/-S**	0.0 usft	**Northing:**	634,119.00 usft	**Latitude:**	32.7416295
	+E/-W	0.0 usft	**Easting:**	736,130.70 usft	**Longitude:**	-103.6997969
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,872.0 usft	**Ground Level:**	3,844.0 usft
Grid Convergence:		0.34 °				

Wellbore BHL: 100' FSL & 500' FEL (Sec 30)

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.25	60.55	48,555.65825223

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	172.66

Plan Survey Tool Program **Date** 5/22/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,357.6	Design #1 (BHL: 100' FSL & 500'		

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	
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,989.4	10.79	91.87	1,986.2	-1.7	50.6	2.00	2.00	0.00	91.87	
8,558.0	10.79	91.87	8,438.8	-41.7	1,279.5	0.00	0.00	0.00	0.00	
9,097.5	0.00	0.00	8,975.0	-43.4	1,330.1	2.00	-2.00	0.00	180.00	KOP: 473' FSL & 500'
9,986.3	88.86	179.56	9,548.0	-605.1	1,334.4	10.00	10.00	0.00	179.56	
20,357.6	88.86	179.56	9,754.0	-10,974.0	1,413.3	0.00	0.00	0.00	0.00	BHL: 100' FSL & 500'

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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: 525' FSL & 1830' FEL (Sec 18)									
50.0	0.00	0.00	50.0	0.0	0.0	0.0	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
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	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
600.0	0.00	0.00	600.0	0.0	0.0	0.0	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
700.0	0.00	0.00	700.0	0.0	0.0	0.0	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
800.0	0.00	0.00	800.0	0.0	0.0	0.0	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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	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
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	1.00	91.87	1,500.0	0.0	0.4	0.1	2.00	2.00	0.00
1,550.0	2.00	91.87	1,550.0	-0.1	1.7	0.3	2.00	2.00	0.00
1,600.0	3.00	91.87	1,599.9	-0.1	3.9	0.6	2.00	2.00	0.00
1,650.0	4.00	91.87	1,649.8	-0.2	7.0	1.1	2.00	2.00	0.00
1,700.0	5.00	91.87	1,699.7	-0.4	10.9	1.7	2.00	2.00	0.00
1,750.0	6.00	91.87	1,749.5	-0.5	15.7	2.5	2.00	2.00	0.00
1,800.0	7.00	91.87	1,799.1	-0.7	21.3	3.4	2.00	2.00	0.00
1,850.0	8.00	91.87	1,848.7	-0.9	27.9	4.5	2.00	2.00	0.00
1,900.0	9.00	91.87	1,898.2	-1.2	35.3	5.6	2.00	2.00	0.00
1,950.0	10.00	91.87	1,947.5	-1.4	43.5	7.0	2.00	2.00	0.00
1,989.4	10.79	91.87	1,986.2	-1.7	50.6	8.1	2.00	2.00	0.00
2,000.0	10.79	91.87	1,996.6	-1.7	52.6	8.4	0.00	0.00	0.00
2,050.0	10.79	91.87	2,045.7	-2.0	61.9	9.9	0.00	0.00	0.00
2,100.0	10.79	91.87	2,094.9	-2.3	71.3	11.4	0.00	0.00	0.00
2,150.0	10.79	91.87	2,144.0	-2.6	80.6	12.9	0.00	0.00	0.00
2,200.0	10.79	91.87	2,193.1	-2.9	90.0	14.4	0.00	0.00	0.00
2,250.0	10.79	91.87	2,242.2	-3.2	99.4	15.9	0.00	0.00	0.00
2,300.0	10.79	91.87	2,291.3	-3.5	108.7	17.4	0.00	0.00	0.00
2,350.0	10.79	91.87	2,340.4	-3.9	118.1	18.9	0.00	0.00	0.00
2,400.0	10.79	91.87	2,389.6	-4.2	127.4	20.4	0.00	0.00	0.00
2,450.0	10.79	91.87	2,438.7	-4.5	136.8	21.9	0.00	0.00	0.00
2,500.0	10.79	91.87	2,487.8	-4.8	146.1	23.4	0.00	0.00	0.00
2,550.0	10.79	91.87	2,536.9	-5.1	155.5	24.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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	10.79	91.87	2,586.0	-5.4	164.8	26.4	0.00	0.00	0.00
2,650.0	10.79	91.87	2,635.1	-5.7	174.2	27.9	0.00	0.00	0.00
2,700.0	10.79	91.87	2,684.3	-6.0	183.5	29.4	0.00	0.00	0.00
2,750.0	10.79	91.87	2,733.4	-6.3	192.9	30.9	0.00	0.00	0.00
2,800.0	10.79	91.87	2,782.5	-6.6	202.3	32.4	0.00	0.00	0.00
2,850.0	10.79	91.87	2,831.6	-6.9	211.6	33.9	0.00	0.00	0.00
2,900.0	10.79	91.87	2,880.7	-7.2	221.0	35.4	0.00	0.00	0.00
2,950.0	10.79	91.87	2,929.8	-7.5	230.3	36.9	0.00	0.00	0.00
3,000.0	10.79	91.87	2,979.0	-7.8	239.7	38.4	0.00	0.00	0.00
3,050.0	10.79	91.87	3,028.1	-8.1	249.0	39.9	0.00	0.00	0.00
3,100.0	10.79	91.87	3,077.2	-8.4	258.4	41.4	0.00	0.00	0.00
3,150.0	10.79	91.87	3,126.3	-8.7	267.7	42.9	0.00	0.00	0.00
3,200.0	10.79	91.87	3,175.4	-9.0	277.1	44.4	0.00	0.00	0.00
3,250.0	10.79	91.87	3,224.5	-9.3	286.4	45.9	0.00	0.00	0.00
3,300.0	10.79	91.87	3,273.7	-9.7	295.8	47.4	0.00	0.00	0.00
3,350.0	10.79	91.87	3,322.8	-10.0	305.2	48.9	0.00	0.00	0.00
3,400.0	10.79	91.87	3,371.9	-10.3	314.5	50.4	0.00	0.00	0.00
3,450.0	10.79	91.87	3,421.0	-10.6	323.9	51.8	0.00	0.00	0.00
3,500.0	10.79	91.87	3,470.1	-10.9	333.2	53.3	0.00	0.00	0.00
3,550.0	10.79	91.87	3,519.2	-11.2	342.6	54.8	0.00	0.00	0.00
3,600.0	10.79	91.87	3,568.4	-11.5	351.9	56.3	0.00	0.00	0.00
3,650.0	10.79	91.87	3,617.5	-11.8	361.3	57.8	0.00	0.00	0.00
3,700.0	10.79	91.87	3,666.6	-12.1	370.6	59.3	0.00	0.00	0.00
3,750.0	10.79	91.87	3,715.7	-12.4	380.0	60.8	0.00	0.00	0.00
3,800.0	10.79	91.87	3,764.8	-12.7	389.3	62.3	0.00	0.00	0.00
3,850.0	10.79	91.87	3,813.9	-13.0	398.7	63.8	0.00	0.00	0.00
3,900.0	10.79	91.87	3,863.0	-13.3	408.0	65.3	0.00	0.00	0.00
3,950.0	10.79	91.87	3,912.2	-13.6	417.4	66.8	0.00	0.00	0.00
4,000.0	10.79	91.87	3,961.3	-13.9	426.8	68.3	0.00	0.00	0.00
4,050.0	10.79	91.87	4,010.4	-14.2	436.1	69.8	0.00	0.00	0.00
4,100.0	10.79	91.87	4,059.5	-14.5	445.5	71.3	0.00	0.00	0.00
4,150.0	10.79	91.87	4,108.6	-14.8	454.8	72.8	0.00	0.00	0.00
4,200.0	10.79	91.87	4,157.7	-15.1	464.2	74.3	0.00	0.00	0.00
4,250.0	10.79	91.87	4,206.9	-15.5	473.5	75.8	0.00	0.00	0.00
4,300.0	10.79	91.87	4,256.0	-15.8	482.9	77.3	0.00	0.00	0.00
4,350.0	10.79	91.87	4,305.1	-16.1	492.2	78.8	0.00	0.00	0.00
4,400.0	10.79	91.87	4,354.2	-16.4	501.6	80.3	0.00	0.00	0.00
4,450.0	10.79	91.87	4,403.3	-16.7	510.9	81.8	0.00	0.00	0.00
4,500.0	10.79	91.87	4,452.4	-17.0	520.3	83.3	0.00	0.00	0.00
4,550.0	10.79	91.87	4,501.6	-17.3	529.7	84.8	0.00	0.00	0.00
4,600.0	10.79	91.87	4,550.7	-17.6	539.0	86.3	0.00	0.00	0.00
4,650.0	10.79	91.87	4,599.8	-17.9	548.4	87.8	0.00	0.00	0.00
4,700.0	10.79	91.87	4,648.9	-18.2	557.7	89.3	0.00	0.00	0.00
4,750.0	10.79	91.87	4,698.0	-18.5	567.1	90.8	0.00	0.00	0.00
4,800.0	10.79	91.87	4,747.1	-18.8	576.4	92.3	0.00	0.00	0.00
4,850.0	10.79	91.87	4,796.3	-19.1	585.8	93.8	0.00	0.00	0.00
4,900.0	10.79	91.87	4,845.4	-19.4	595.1	95.3	0.00	0.00	0.00
4,950.0	10.79	91.87	4,894.5	-19.7	604.5	96.8	0.00	0.00	0.00
5,000.0	10.79	91.87	4,943.6	-20.0	613.8	98.3	0.00	0.00	0.00
5,050.0	10.79	91.87	4,992.7	-20.3	623.2	99.8	0.00	0.00	0.00
5,100.0	10.79	91.87	5,041.8	-20.6	632.5	101.3	0.00	0.00	0.00
5,150.0	10.79	91.87	5,091.0	-20.9	641.9	102.8	0.00	0.00	0.00
5,200.0	10.79	91.87	5,140.1	-21.2	651.3	104.3	0.00	0.00	0.00
5,250.0	10.79	91.87	5,189.2	-21.6	660.6	105.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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	10.79	91.87	5,238.3	-21.9	670.0	107.3	0.00	0.00	0.00
5,350.0	10.79	91.87	5,287.4	-22.2	679.3	108.8	0.00	0.00	0.00
5,400.0	10.79	91.87	5,336.5	-22.5	688.7	110.3	0.00	0.00	0.00
5,450.0	10.79	91.87	5,385.7	-22.8	698.0	111.7	0.00	0.00	0.00
5,500.0	10.79	91.87	5,434.8	-23.1	707.4	113.2	0.00	0.00	0.00
5,550.0	10.79	91.87	5,483.9	-23.4	716.7	114.7	0.00	0.00	0.00
5,600.0	10.79	91.87	5,533.0	-23.7	726.1	116.2	0.00	0.00	0.00
5,650.0	10.79	91.87	5,582.1	-24.0	735.4	117.7	0.00	0.00	0.00
5,700.0	10.79	91.87	5,631.2	-24.3	744.8	119.2	0.00	0.00	0.00
5,750.0	10.79	91.87	5,680.3	-24.6	754.2	120.7	0.00	0.00	0.00
5,800.0	10.79	91.87	5,729.5	-24.9	763.5	122.2	0.00	0.00	0.00
5,850.0	10.79	91.87	5,778.6	-25.2	772.9	123.7	0.00	0.00	0.00
5,900.0	10.79	91.87	5,827.7	-25.5	782.2	125.2	0.00	0.00	0.00
5,950.0	10.79	91.87	5,876.8	-25.8	791.6	126.7	0.00	0.00	0.00
6,000.0	10.79	91.87	5,925.9	-26.1	800.9	128.2	0.00	0.00	0.00
6,050.0	10.79	91.87	5,975.0	-26.4	810.3	129.7	0.00	0.00	0.00
6,100.0	10.79	91.87	6,024.2	-26.7	819.6	131.2	0.00	0.00	0.00
6,150.0	10.79	91.87	6,073.3	-27.0	829.0	132.7	0.00	0.00	0.00
6,200.0	10.79	91.87	6,122.4	-27.4	838.3	134.2	0.00	0.00	0.00
6,250.0	10.79	91.87	6,171.5	-27.7	847.7	135.7	0.00	0.00	0.00
6,300.0	10.79	91.87	6,220.6	-28.0	857.0	137.2	0.00	0.00	0.00
6,350.0	10.79	91.87	6,269.7	-28.3	866.4	138.7	0.00	0.00	0.00
6,400.0	10.79	91.87	6,318.9	-28.6	875.8	140.2	0.00	0.00	0.00
6,450.0	10.79	91.87	6,368.0	-28.9	885.1	141.7	0.00	0.00	0.00
6,500.0	10.79	91.87	6,417.1	-29.2	894.5	143.2	0.00	0.00	0.00
6,550.0	10.79	91.87	6,466.2	-29.5	903.8	144.7	0.00	0.00	0.00
6,600.0	10.79	91.87	6,515.3	-29.8	913.2	146.2	0.00	0.00	0.00
6,650.0	10.79	91.87	6,564.4	-30.1	922.5	147.7	0.00	0.00	0.00
6,700.0	10.79	91.87	6,613.6	-30.4	931.9	149.2	0.00	0.00	0.00
6,750.0	10.79	91.87	6,662.7	-30.7	941.2	150.7	0.00	0.00	0.00
6,800.0	10.79	91.87	6,711.8	-31.0	950.6	152.2	0.00	0.00	0.00
6,850.0	10.79	91.87	6,760.9	-31.3	959.9	153.7	0.00	0.00	0.00
6,900.0	10.79	91.87	6,810.0	-31.6	969.3	155.2	0.00	0.00	0.00
6,950.0	10.79	91.87	6,859.1	-31.9	978.7	156.7	0.00	0.00	0.00
7,000.0	10.79	91.87	6,908.3	-32.2	988.0	158.2	0.00	0.00	0.00
7,050.0	10.79	91.87	6,957.4	-32.5	997.4	159.7	0.00	0.00	0.00
7,100.0	10.79	91.87	7,006.5	-32.8	1,006.7	161.2	0.00	0.00	0.00
7,150.0	10.79	91.87	7,055.6	-33.2	1,016.1	162.7	0.00	0.00	0.00
7,200.0	10.79	91.87	7,104.7	-33.5	1,025.4	164.2	0.00	0.00	0.00
7,250.0	10.79	91.87	7,153.8	-33.8	1,034.8	165.7	0.00	0.00	0.00
7,300.0	10.79	91.87	7,203.0	-34.1	1,044.1	167.2	0.00	0.00	0.00
7,350.0	10.79	91.87	7,252.1	-34.4	1,053.5	168.7	0.00	0.00	0.00
7,400.0	10.79	91.87	7,301.2	-34.7	1,062.8	170.2	0.00	0.00	0.00
7,450.0	10.79	91.87	7,350.3	-35.0	1,072.2	171.7	0.00	0.00	0.00
7,500.0	10.79	91.87	7,399.4	-35.3	1,081.5	173.1	0.00	0.00	0.00
7,550.0	10.79	91.87	7,448.5	-35.6	1,090.9	174.6	0.00	0.00	0.00
7,600.0	10.79	91.87	7,497.7	-35.9	1,100.3	176.1	0.00	0.00	0.00
7,650.0	10.79	91.87	7,546.8	-36.2	1,109.6	177.6	0.00	0.00	0.00
7,700.0	10.79	91.87	7,595.9	-36.5	1,119.0	179.1	0.00	0.00	0.00
7,750.0	10.79	91.87	7,645.0	-36.8	1,128.3	180.6	0.00	0.00	0.00
7,800.0	10.79	91.87	7,694.1	-37.1	1,137.7	182.1	0.00	0.00	0.00
7,850.0	10.79	91.87	7,743.2	-37.4	1,147.0	183.6	0.00	0.00	0.00
7,900.0	10.79	91.87	7,792.3	-37.7	1,156.4	185.1	0.00	0.00	0.00
7,950.0	10.79	91.87	7,841.5	-38.0	1,165.7	186.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
8,000.0	10.79	91.87	7,890.6	-38.3	1,175.1	188.1	0.00	0.00	0.00
8,050.0	10.79	91.87	7,939.7	-38.6	1,184.4	189.6	0.00	0.00	0.00
8,100.0	10.79	91.87	7,988.8	-39.0	1,193.8	191.1	0.00	0.00	0.00
8,150.0	10.79	91.87	8,037.9	-39.3	1,203.2	192.6	0.00	0.00	0.00
8,200.0	10.79	91.87	8,087.0	-39.6	1,212.5	194.1	0.00	0.00	0.00
8,250.0	10.79	91.87	8,136.2	-39.9	1,221.9	195.6	0.00	0.00	0.00
8,300.0	10.79	91.87	8,185.3	-40.2	1,231.2	197.1	0.00	0.00	0.00
8,350.0	10.79	91.87	8,234.4	-40.5	1,240.6	198.6	0.00	0.00	0.00
8,400.0	10.79	91.87	8,283.5	-40.8	1,249.9	200.1	0.00	0.00	0.00
8,450.0	10.79	91.87	8,332.6	-41.1	1,259.3	201.6	0.00	0.00	0.00
8,500.0	10.79	91.87	8,381.7	-41.4	1,268.6	203.1	0.00	0.00	0.00
8,550.0	10.79	91.87	8,430.9	-41.7	1,278.0	204.6	0.00	0.00	0.00
8,558.0	10.79	91.87	8,438.8	-41.7	1,279.5	204.8	0.00	0.00	0.00
8,600.0	9.95	91.87	8,480.0	-42.0	1,287.0	206.0	2.00	-2.00	0.00
8,650.0	8.95	91.87	8,529.4	-42.3	1,295.2	207.4	2.00	-2.00	0.00
8,700.0	7.95	91.87	8,578.8	-42.5	1,302.6	208.5	2.00	-2.00	0.00
8,750.0	6.95	91.87	8,628.4	-42.7	1,309.1	209.6	2.00	-2.00	0.00
8,800.0	5.95	91.87	8,678.1	-42.9	1,314.7	210.5	2.00	-2.00	0.00
8,850.0	4.95	91.87	8,727.8	-43.1	1,319.4	211.2	2.00	-2.00	0.00
8,900.0	3.95	91.87	8,777.7	-43.2	1,323.3	211.9	2.00	-2.00	0.00
8,950.0	2.95	91.87	8,827.6	-43.3	1,326.3	212.3	2.00	-2.00	0.00
9,000.0	1.95	91.87	8,877.6	-43.3	1,328.4	212.7	2.00	-2.00	0.00
9,050.0	0.95	91.87	8,927.5	-43.4	1,329.7	212.9	2.00	-2.00	0.00
9,097.5	0.00	0.00	8,975.0	-43.4	1,330.1	212.9	2.00	-2.00	0.00
KOP: 473' FSL & 500' FEL (Sec 18)									
9,100.0	0.25	179.56	8,977.5	-43.4	1,330.1	212.9	10.00	10.00	0.00
9,150.0	5.25	179.56	9,027.5	-45.8	1,330.1	215.3	10.00	10.00	0.00
9,200.0	10.25	179.56	9,077.0	-52.5	1,330.2	222.0	10.00	10.00	0.00
9,250.0	15.25	179.56	9,125.7	-63.6	1,330.3	233.0	10.00	10.00	0.00
9,300.0	20.25	179.56	9,173.3	-78.8	1,330.4	248.1	10.00	10.00	0.00
9,350.0	25.25	179.56	9,219.4	-98.1	1,330.5	267.3	10.00	10.00	0.00
9,400.0	30.25	179.56	9,263.7	-121.4	1,330.7	290.4	10.00	10.00	0.00
9,450.0	35.24	179.56	9,305.7	-148.4	1,330.9	317.2	10.00	10.00	0.00
9,500.0	40.24	179.56	9,345.2	-179.0	1,331.1	347.6	10.00	10.00	0.00
9,550.0	45.24	179.56	9,382.0	-213.0	1,331.4	381.3	10.00	10.00	0.00
9,600.0	50.24	179.56	9,415.6	-250.0	1,331.7	418.0	10.00	10.00	0.00
9,650.0	55.24	179.56	9,445.8	-289.7	1,332.0	457.5	10.00	10.00	0.00
9,700.0	60.24	179.56	9,472.5	-332.0	1,332.3	499.5	10.00	10.00	0.00
9,750.0	65.24	179.56	9,495.4	-376.4	1,332.6	543.6	10.00	10.00	0.00
9,800.0	70.23	179.56	9,514.3	-422.7	1,333.0	589.5	10.00	10.00	0.00
9,850.0	75.23	179.56	9,529.2	-470.4	1,333.4	636.9	10.00	10.00	0.00
9,900.0	80.23	179.56	9,539.8	-519.3	1,333.7	685.4	10.00	10.00	0.00
9,950.0	85.23	179.56	9,546.1	-568.8	1,334.1	734.6	10.00	10.00	0.00
9,986.3	88.86	179.56	9,548.0	-605.1	1,334.4	770.6	10.00	10.00	0.00
9,997.4	88.86	179.56	9,548.2	-616.2	1,334.5	781.6	0.00	0.00	0.00
FTP/LP: 100' FNL & 500' FEL (Sec 19)									
10,000.0	88.86	179.56	9,548.3	-618.8	1,334.5	784.2	0.00	0.00	0.00
10,050.0	88.86	179.56	9,549.3	-668.8	1,334.9	833.8	0.00	0.00	0.00
10,100.0	88.86	179.56	9,550.3	-718.8	1,335.2	883.4	0.00	0.00	0.00
10,150.0	88.86	179.56	9,551.3	-768.8	1,335.6	933.1	0.00	0.00	0.00
10,200.0	88.86	179.56	9,552.2	-818.7	1,336.0	982.7	0.00	0.00	0.00
10,250.0	88.86	179.56	9,553.2	-868.7	1,336.4	1,032.3	0.00	0.00	0.00
10,300.0	88.86	179.56	9,554.2	-918.7	1,336.8	1,081.9	0.00	0.00	0.00
10,350.0	88.86	179.56	9,555.2	-968.7	1,337.1	1,131.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
10,400.0	88.86	179.56	9,556.2	-1,018.7	1,337.5	1,181.2	0.00	0.00	0.00
10,450.0	88.86	179.56	9,557.2	-1,068.7	1,337.9	1,230.8	0.00	0.00	0.00
10,500.0	88.86	179.56	9,558.2	-1,118.7	1,338.3	1,280.5	0.00	0.00	0.00
10,550.0	88.86	179.56	9,559.2	-1,168.7	1,338.7	1,330.1	0.00	0.00	0.00
10,600.0	88.86	179.56	9,560.2	-1,218.7	1,339.0	1,379.7	0.00	0.00	0.00
10,650.0	88.86	179.56	9,561.2	-1,268.6	1,339.4	1,429.3	0.00	0.00	0.00
10,700.0	88.86	179.56	9,562.2	-1,318.6	1,339.8	1,479.0	0.00	0.00	0.00
10,750.0	88.86	179.56	9,563.2	-1,368.6	1,340.2	1,528.6	0.00	0.00	0.00
10,800.0	88.86	179.56	9,564.2	-1,418.6	1,340.6	1,578.2	0.00	0.00	0.00
10,850.0	88.86	179.56	9,565.2	-1,468.6	1,340.9	1,627.8	0.00	0.00	0.00
10,900.0	88.86	179.56	9,566.1	-1,518.6	1,341.3	1,677.5	0.00	0.00	0.00
10,950.0	88.86	179.56	9,567.1	-1,568.6	1,341.7	1,727.1	0.00	0.00	0.00
11,000.0	88.86	179.56	9,568.1	-1,618.6	1,342.1	1,776.7	0.00	0.00	0.00
11,050.0	88.86	179.56	9,569.1	-1,668.5	1,342.5	1,826.4	0.00	0.00	0.00
11,100.0	88.86	179.56	9,570.1	-1,718.5	1,342.9	1,876.0	0.00	0.00	0.00
11,150.0	88.86	179.56	9,571.1	-1,768.5	1,343.2	1,925.6	0.00	0.00	0.00
11,200.0	88.86	179.56	9,572.1	-1,818.5	1,343.6	1,975.2	0.00	0.00	0.00
11,217.5	88.86	179.56	9,572.5	-1,836.0	1,343.7	1,992.6	0.00	0.00	0.00
PPP2: 1220' FNL & 500' FEL (Sec 19)									
11,250.0	88.86	179.56	9,573.1	-1,868.5	1,344.0	2,024.9	0.00	0.00	0.00
11,300.0	88.86	179.56	9,574.1	-1,918.5	1,344.4	2,074.5	0.00	0.00	0.00
11,350.0	88.86	179.56	9,575.1	-1,968.5	1,344.8	2,124.1	0.00	0.00	0.00
11,400.0	88.86	179.56	9,576.1	-2,018.5	1,345.1	2,173.8	0.00	0.00	0.00
11,450.0	88.86	179.56	9,577.1	-2,068.5	1,345.5	2,223.4	0.00	0.00	0.00
11,500.0	88.86	179.56	9,578.1	-2,118.4	1,345.9	2,273.0	0.00	0.00	0.00
11,550.0	88.86	179.56	9,579.1	-2,168.4	1,346.3	2,322.6	0.00	0.00	0.00
11,600.0	88.86	179.56	9,580.1	-2,218.4	1,346.7	2,372.3	0.00	0.00	0.00
11,650.0	88.86	179.56	9,581.0	-2,268.4	1,347.0	2,421.9	0.00	0.00	0.00
11,700.0	88.86	179.56	9,582.0	-2,318.4	1,347.4	2,471.5	0.00	0.00	0.00
11,750.0	88.86	179.56	9,583.0	-2,368.4	1,347.8	2,521.1	0.00	0.00	0.00
11,800.0	88.86	179.56	9,584.0	-2,418.4	1,348.2	2,570.8	0.00	0.00	0.00
11,850.0	88.86	179.56	9,585.0	-2,468.4	1,348.6	2,620.4	0.00	0.00	0.00
11,900.0	88.86	179.56	9,586.0	-2,518.4	1,348.9	2,670.0	0.00	0.00	0.00
11,950.0	88.86	179.56	9,587.0	-2,568.3	1,349.3	2,719.7	0.00	0.00	0.00
12,000.0	88.86	179.56	9,588.0	-2,618.3	1,349.7	2,769.3	0.00	0.00	0.00
12,050.0	88.86	179.56	9,589.0	-2,668.3	1,350.1	2,818.9	0.00	0.00	0.00
12,100.0	88.86	179.56	9,590.0	-2,718.3	1,350.5	2,868.5	0.00	0.00	0.00
12,150.0	88.86	179.56	9,591.0	-2,768.3	1,350.8	2,918.2	0.00	0.00	0.00
12,200.0	88.86	179.56	9,592.0	-2,818.3	1,351.2	2,967.8	0.00	0.00	0.00
12,250.0	88.86	179.56	9,593.0	-2,868.3	1,351.6	3,017.4	0.00	0.00	0.00
12,300.0	88.86	179.56	9,594.0	-2,918.3	1,352.0	3,067.1	0.00	0.00	0.00
12,350.0	88.86	179.56	9,594.9	-2,968.3	1,352.4	3,116.7	0.00	0.00	0.00
12,400.0	88.86	179.56	9,595.9	-3,018.2	1,352.7	3,166.3	0.00	0.00	0.00
12,450.0	88.86	179.56	9,596.9	-3,068.2	1,353.1	3,215.9	0.00	0.00	0.00
12,500.0	88.86	179.56	9,597.9	-3,118.2	1,353.5	3,265.6	0.00	0.00	0.00
12,550.0	88.86	179.56	9,598.9	-3,168.2	1,353.9	3,315.2	0.00	0.00	0.00
12,600.0	88.86	179.56	9,599.9	-3,218.2	1,354.3	3,364.8	0.00	0.00	0.00
12,650.0	88.86	179.56	9,600.9	-3,268.2	1,354.6	3,414.4	0.00	0.00	0.00
12,700.0	88.86	179.56	9,601.9	-3,318.2	1,355.0	3,464.1	0.00	0.00	0.00
12,750.0	88.86	179.56	9,602.9	-3,368.2	1,355.4	3,513.7	0.00	0.00	0.00
12,800.0	88.86	179.56	9,603.9	-3,418.2	1,355.8	3,563.3	0.00	0.00	0.00
12,850.0	88.86	179.56	9,604.9	-3,468.1	1,356.2	3,613.0	0.00	0.00	0.00
12,900.0	88.86	179.56	9,605.9	-3,518.1	1,356.5	3,662.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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	88.86	179.56	9,606.9	-3,568.1	1,356.9	3,712.2	0.00	0.00	0.00
13,000.0	88.86	179.56	9,607.9	-3,618.1	1,357.3	3,761.8	0.00	0.00	0.00
13,050.0	88.86	179.56	9,608.9	-3,668.1	1,357.7	3,811.5	0.00	0.00	0.00
13,100.0	88.86	179.56	9,609.8	-3,718.1	1,358.1	3,861.1	0.00	0.00	0.00
13,150.0	88.86	179.56	9,610.8	-3,768.1	1,358.5	3,910.7	0.00	0.00	0.00
13,200.0	88.86	179.56	9,611.8	-3,818.1	1,358.8	3,960.4	0.00	0.00	0.00
13,250.0	88.86	179.56	9,612.8	-3,868.1	1,359.2	4,010.0	0.00	0.00	0.00
13,300.0	88.86	179.56	9,613.8	-3,918.0	1,359.6	4,059.6	0.00	0.00	0.00
13,350.0	88.86	179.56	9,614.8	-3,968.0	1,360.0	4,109.2	0.00	0.00	0.00
13,400.0	88.86	179.56	9,615.8	-4,018.0	1,360.4	4,158.9	0.00	0.00	0.00
13,450.0	88.86	179.56	9,616.8	-4,068.0	1,360.7	4,208.5	0.00	0.00	0.00
13,500.0	88.86	179.56	9,617.8	-4,118.0	1,361.1	4,258.1	0.00	0.00	0.00
13,550.0	88.86	179.56	9,618.8	-4,168.0	1,361.5	4,307.7	0.00	0.00	0.00
13,600.0	88.86	179.56	9,619.8	-4,218.0	1,361.9	4,357.4	0.00	0.00	0.00
13,650.0	88.86	179.56	9,620.8	-4,268.0	1,362.3	4,407.0	0.00	0.00	0.00
13,700.0	88.86	179.56	9,621.8	-4,317.9	1,362.6	4,456.6	0.00	0.00	0.00
13,750.0	88.86	179.56	9,622.8	-4,367.9	1,363.0	4,506.3	0.00	0.00	0.00
13,800.0	88.86	179.56	9,623.7	-4,417.9	1,363.4	4,555.9	0.00	0.00	0.00
13,850.0	88.86	179.56	9,624.7	-4,467.9	1,363.8	4,605.5	0.00	0.00	0.00
13,900.0	88.86	179.56	9,625.7	-4,517.9	1,364.2	4,655.1	0.00	0.00	0.00
13,950.0	88.86	179.56	9,626.7	-4,567.9	1,364.5	4,704.8	0.00	0.00	0.00
14,000.0	88.86	179.56	9,627.7	-4,617.9	1,364.9	4,754.4	0.00	0.00	0.00
14,050.0	88.86	179.56	9,628.7	-4,667.9	1,365.3	4,804.0	0.00	0.00	0.00
14,100.0	88.86	179.56	9,629.7	-4,717.9	1,365.7	4,853.7	0.00	0.00	0.00
14,150.0	88.86	179.56	9,630.7	-4,767.8	1,366.1	4,903.3	0.00	0.00	0.00
14,200.0	88.86	179.56	9,631.7	-4,817.8	1,366.4	4,952.9	0.00	0.00	0.00
14,250.0	88.86	179.56	9,632.7	-4,867.8	1,366.8	5,002.5	0.00	0.00	0.00
14,300.0	88.86	179.56	9,633.7	-4,917.8	1,367.2	5,052.2	0.00	0.00	0.00
14,350.0	88.86	179.56	9,634.7	-4,967.8	1,367.6	5,101.8	0.00	0.00	0.00
14,400.0	88.86	179.56	9,635.7	-5,017.8	1,368.0	5,151.4	0.00	0.00	0.00
14,450.0	88.86	179.56	9,636.7	-5,067.8	1,368.3	5,201.0	0.00	0.00	0.00
14,500.0	88.86	179.56	9,637.7	-5,117.8	1,368.7	5,250.7	0.00	0.00	0.00
14,550.0	88.86	179.56	9,638.6	-5,167.8	1,369.1	5,300.3	0.00	0.00	0.00
14,600.0	88.86	179.56	9,639.6	-5,217.7	1,369.5	5,349.9	0.00	0.00	0.00
14,650.0	88.86	179.56	9,640.6	-5,267.7	1,369.9	5,399.6	0.00	0.00	0.00
14,700.0	88.86	179.56	9,641.6	-5,317.7	1,370.2	5,449.2	0.00	0.00	0.00
14,750.0	88.86	179.56	9,642.6	-5,367.7	1,370.6	5,498.8	0.00	0.00	0.00
14,800.0	88.86	179.56	9,643.6	-5,417.7	1,371.0	5,548.4	0.00	0.00	0.00
14,850.0	88.86	179.56	9,644.6	-5,467.7	1,371.4	5,598.1	0.00	0.00	0.00
14,900.0	88.86	179.56	9,645.6	-5,517.7	1,371.8	5,647.7	0.00	0.00	0.00
14,950.0	88.86	179.56	9,646.6	-5,567.7	1,372.1	5,697.3	0.00	0.00	0.00
15,000.0	88.86	179.56	9,647.6	-5,617.7	1,372.5	5,747.0	0.00	0.00	0.00
15,050.0	88.86	179.56	9,648.6	-5,667.6	1,372.9	5,796.6	0.00	0.00	0.00
15,100.0	88.86	179.56	9,649.6	-5,717.6	1,373.3	5,846.2	0.00	0.00	0.00
15,150.0	88.86	179.56	9,650.6	-5,767.6	1,373.7	5,895.8	0.00	0.00	0.00
15,200.0	88.86	179.56	9,651.6	-5,817.6	1,374.1	5,945.5	0.00	0.00	0.00
15,250.0	88.86	179.56	9,652.6	-5,867.6	1,374.4	5,995.1	0.00	0.00	0.00
15,300.0	88.86	179.56	9,653.5	-5,917.6	1,374.8	6,044.7	0.00	0.00	0.00
15,350.0	88.86	179.56	9,654.5	-5,967.6	1,375.2	6,094.3	0.00	0.00	0.00
15,400.0	88.86	179.56	9,655.5	-6,017.6	1,375.6	6,144.0	0.00	0.00	0.00
15,450.0	88.86	179.56	9,656.5	-6,067.6	1,376.0	6,193.6	0.00	0.00	0.00
15,500.0	88.86	179.56	9,657.5	-6,117.5	1,376.3	6,243.2	0.00	0.00	0.00
15,550.0	88.86	179.56	9,658.5	-6,167.5	1,376.7	6,292.9	0.00	0.00	0.00
15,600.0	88.86	179.56	9,659.5	-6,217.5	1,377.1	6,342.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
15,650.0	88.86	179.56	9,660.5	-6,267.5	1,377.5	6,392.1	0.00	0.00	0.00
15,700.0	88.86	179.56	9,661.5	-6,317.5	1,377.9	6,441.7	0.00	0.00	0.00
15,750.0	88.86	179.56	9,662.5	-6,367.5	1,378.2	6,491.4	0.00	0.00	0.00
15,800.0	88.86	179.56	9,663.5	-6,417.5	1,378.6	6,541.0	0.00	0.00	0.00
15,850.0	88.86	179.56	9,664.5	-6,467.5	1,379.0	6,590.6	0.00	0.00	0.00
15,900.0	88.86	179.56	9,665.5	-6,517.5	1,379.4	6,640.3	0.00	0.00	0.00
15,950.0	88.86	179.56	9,666.5	-6,567.4	1,379.8	6,689.9	0.00	0.00	0.00
16,000.0	88.86	179.56	9,667.4	-6,617.4	1,380.1	6,739.5	0.00	0.00	0.00
16,050.0	88.86	179.56	9,668.4	-6,667.4	1,380.5	6,789.1	0.00	0.00	0.00
16,100.0	88.86	179.56	9,669.4	-6,717.4	1,380.9	6,838.8	0.00	0.00	0.00
16,150.0	88.86	179.56	9,670.4	-6,767.4	1,381.3	6,888.4	0.00	0.00	0.00
16,200.0	88.86	179.56	9,671.4	-6,817.4	1,381.7	6,938.0	0.00	0.00	0.00
16,250.0	88.86	179.56	9,672.4	-6,867.4	1,382.0	6,987.7	0.00	0.00	0.00
16,300.0	88.86	179.56	9,673.4	-6,917.4	1,382.4	7,037.3	0.00	0.00	0.00
16,350.0	88.86	179.56	9,674.4	-6,967.3	1,382.8	7,086.9	0.00	0.00	0.00
16,400.0	88.86	179.56	9,675.4	-7,017.3	1,383.2	7,136.5	0.00	0.00	0.00
16,450.0	88.86	179.56	9,676.4	-7,067.3	1,383.6	7,186.2	0.00	0.00	0.00
16,500.0	88.86	179.56	9,677.4	-7,117.3	1,383.9	7,235.8	0.00	0.00	0.00
16,550.0	88.86	179.56	9,678.4	-7,167.3	1,384.3	7,285.4	0.00	0.00	0.00
16,600.0	88.86	179.56	9,679.4	-7,217.3	1,384.7	7,335.0	0.00	0.00	0.00
16,650.0	88.86	179.56	9,680.4	-7,267.3	1,385.1	7,384.7	0.00	0.00	0.00
16,700.0	88.86	179.56	9,681.4	-7,317.3	1,385.5	7,434.3	0.00	0.00	0.00
16,750.0	88.86	179.56	9,682.3	-7,367.3	1,385.8	7,483.9	0.00	0.00	0.00
16,800.0	88.86	179.56	9,683.3	-7,417.2	1,386.2	7,533.6	0.00	0.00	0.00
16,850.0	88.86	179.56	9,684.3	-7,467.2	1,386.6	7,583.2	0.00	0.00	0.00
16,900.0	88.86	179.56	9,685.3	-7,517.2	1,387.0	7,632.8	0.00	0.00	0.00
16,950.0	88.86	179.56	9,686.3	-7,567.2	1,387.4	7,682.4	0.00	0.00	0.00
17,000.0	88.86	179.56	9,687.3	-7,617.2	1,387.7	7,732.1	0.00	0.00	0.00
17,050.0	88.86	179.56	9,688.3	-7,667.2	1,388.1	7,781.7	0.00	0.00	0.00
17,100.0	88.86	179.56	9,689.3	-7,717.2	1,388.5	7,831.3	0.00	0.00	0.00
17,150.0	88.86	179.56	9,690.3	-7,767.2	1,388.9	7,881.0	0.00	0.00	0.00
17,200.0	88.86	179.56	9,691.3	-7,817.2	1,389.3	7,930.6	0.00	0.00	0.00
17,250.0	88.86	179.56	9,692.3	-7,867.1	1,389.7	7,980.2	0.00	0.00	0.00
17,300.0	88.86	179.56	9,693.3	-7,917.1	1,390.0	8,029.8	0.00	0.00	0.00
17,350.0	88.86	179.56	9,694.3	-7,967.1	1,390.4	8,079.5	0.00	0.00	0.00
17,400.0	88.86	179.56	9,695.3	-8,017.1	1,390.8	8,129.1	0.00	0.00	0.00
17,450.0	88.86	179.56	9,696.2	-8,067.1	1,391.2	8,178.7	0.00	0.00	0.00
17,500.0	88.86	179.56	9,697.2	-8,117.1	1,391.6	8,228.3	0.00	0.00	0.00
17,550.0	88.86	179.56	9,698.2	-8,167.1	1,391.9	8,278.0	0.00	0.00	0.00
17,600.0	88.86	179.56	9,699.2	-8,217.1	1,392.3	8,327.6	0.00	0.00	0.00
17,650.0	88.86	179.56	9,700.2	-8,267.1	1,392.7	8,377.2	0.00	0.00	0.00
17,700.0	88.86	179.56	9,701.2	-8,317.0	1,393.1	8,426.9	0.00	0.00	0.00
17,750.0	88.86	179.56	9,702.2	-8,367.0	1,393.5	8,476.5	0.00	0.00	0.00
17,800.0	88.86	179.56	9,703.2	-8,417.0	1,393.8	8,526.1	0.00	0.00	0.00
17,850.0	88.86	179.56	9,704.2	-8,467.0	1,394.2	8,575.7	0.00	0.00	0.00
17,900.0	88.86	179.56	9,705.2	-8,517.0	1,394.6	8,625.4	0.00	0.00	0.00
17,950.0	88.86	179.56	9,706.2	-8,567.0	1,395.0	8,675.0	0.00	0.00	0.00
18,000.0	88.86	179.56	9,707.2	-8,617.0	1,395.4	8,724.6	0.00	0.00	0.00
18,050.0	88.86	179.56	9,708.2	-8,667.0	1,395.7	8,774.3	0.00	0.00	0.00
18,100.0	88.86	179.56	9,709.2	-8,717.0	1,396.1	8,823.9	0.00	0.00	0.00
18,150.0	88.86	179.56	9,710.2	-8,766.9	1,396.5	8,873.5	0.00	0.00	0.00
18,200.0	88.86	179.56	9,711.1	-8,816.9	1,396.9	8,923.1	0.00	0.00	0.00
18,250.0	88.86	179.56	9,712.1	-8,866.9	1,397.3	8,972.8	0.00	0.00	0.00
18,300.0	88.86	179.56	9,713.1	-8,916.9	1,397.6	9,022.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
18,350.0	88.86	179.56	9,714.1	-8,966.9	1,398.0	9,072.0	0.00	0.00	0.00
18,400.0	88.86	179.56	9,715.1	-9,016.9	1,398.4	9,121.6	0.00	0.00	0.00
18,450.0	88.86	179.56	9,716.1	-9,066.9	1,398.8	9,171.3	0.00	0.00	0.00
18,500.0	88.86	179.56	9,717.1	-9,116.9	1,399.2	9,220.9	0.00	0.00	0.00
18,550.0	88.86	179.56	9,718.1	-9,166.9	1,399.5	9,270.5	0.00	0.00	0.00
18,600.0	88.86	179.56	9,719.1	-9,216.8	1,399.9	9,320.2	0.00	0.00	0.00
18,650.0	88.86	179.56	9,720.1	-9,266.8	1,400.3	9,369.8	0.00	0.00	0.00
18,700.0	88.86	179.56	9,721.1	-9,316.8	1,400.7	9,419.4	0.00	0.00	0.00
18,750.0	88.86	179.56	9,722.1	-9,366.8	1,401.1	9,469.0	0.00	0.00	0.00
18,800.0	88.86	179.56	9,723.1	-9,416.8	1,401.4	9,518.7	0.00	0.00	0.00
18,850.0	88.86	179.56	9,724.1	-9,466.8	1,401.8	9,568.3	0.00	0.00	0.00
18,900.0	88.86	179.56	9,725.0	-9,516.8	1,402.2	9,617.9	0.00	0.00	0.00
18,950.0	88.86	179.56	9,726.0	-9,566.8	1,402.6	9,667.6	0.00	0.00	0.00
19,000.0	88.86	179.56	9,727.0	-9,616.7	1,403.0	9,717.2	0.00	0.00	0.00
19,050.0	88.86	179.56	9,728.0	-9,666.7	1,403.3	9,766.8	0.00	0.00	0.00
19,100.0	88.86	179.56	9,729.0	-9,716.7	1,403.7	9,816.4	0.00	0.00	0.00
19,150.0	88.86	179.56	9,730.0	-9,766.7	1,404.1	9,866.1	0.00	0.00	0.00
19,200.0	88.86	179.56	9,731.0	-9,816.7	1,404.5	9,915.7	0.00	0.00	0.00
19,250.0	88.86	179.56	9,732.0	-9,866.7	1,404.9	9,965.3	0.00	0.00	0.00
19,300.0	88.86	179.56	9,733.0	-9,916.7	1,405.3	10,014.9	0.00	0.00	0.00
19,350.0	88.86	179.56	9,734.0	-9,966.7	1,405.6	10,064.6	0.00	0.00	0.00
19,400.0	88.86	179.56	9,735.0	-10,016.7	1,406.0	10,114.2	0.00	0.00	0.00
19,450.0	88.86	179.56	9,736.0	-10,066.6	1,406.4	10,163.8	0.00	0.00	0.00
19,500.0	88.86	179.56	9,737.0	-10,116.6	1,406.8	10,213.5	0.00	0.00	0.00
19,550.0	88.86	179.56	9,738.0	-10,166.6	1,407.2	10,263.1	0.00	0.00	0.00
19,600.0	88.86	179.56	9,739.0	-10,216.6	1,407.5	10,312.7	0.00	0.00	0.00
19,650.0	88.86	179.56	9,739.9	-10,266.6	1,407.9	10,362.3	0.00	0.00	0.00
19,700.0	88.86	179.56	9,740.9	-10,316.6	1,408.3	10,412.0	0.00	0.00	0.00
19,750.0	88.86	179.56	9,741.9	-10,366.6	1,408.7	10,461.6	0.00	0.00	0.00
19,800.0	88.86	179.56	9,742.9	-10,416.6	1,409.1	10,511.2	0.00	0.00	0.00
19,850.0	88.86	179.56	9,743.9	-10,466.6	1,409.4	10,560.9	0.00	0.00	0.00
19,900.0	88.86	179.56	9,744.9	-10,516.5	1,409.8	10,610.5	0.00	0.00	0.00
19,950.0	88.86	179.56	9,745.9	-10,566.5	1,410.2	10,660.1	0.00	0.00	0.00
20,000.0	88.86	179.56	9,746.9	-10,616.5	1,410.6	10,709.7	0.00	0.00	0.00
20,050.0	88.86	179.56	9,747.9	-10,666.5	1,411.0	10,759.4	0.00	0.00	0.00
20,100.0	88.86	179.56	9,748.9	-10,716.5	1,411.3	10,809.0	0.00	0.00	0.00
20,150.0	88.86	179.56	9,749.9	-10,766.5	1,411.7	10,858.6	0.00	0.00	0.00
20,200.0	88.86	179.56	9,750.9	-10,816.5	1,412.1	10,908.2	0.00	0.00	0.00
20,250.0	88.86	179.56	9,751.9	-10,866.5	1,412.5	10,957.9	0.00	0.00	0.00
20,300.0	88.86	179.56	9,752.9	-10,916.5	1,412.9	11,007.5	0.00	0.00	0.00
20,350.0	88.86	179.56	9,753.8	-10,966.4	1,413.2	11,057.1	0.00	0.00	0.00
20,357.6	88.86	179.56	9,754.0	-10,974.0	1,413.3	11,064.6	0.00	0.00	0.00
BHL: 100' FSL & 500' FEL (Sec 30)									

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3872.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 525' FSL & 1830' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	634,119.00	736,130.70	32.7416295	-103.6997969
KOP: 473' FSL & 500' FI - plan hits target center - Point	0.00	0.00	8,975.0	-43.4	1,330.1	634,075.60	737,460.80	32.7414883	-103.6954720
FTP/LP: 100' FNL & 500 - plan hits target center - Point	0.00	0.00	9,548.2	-616.2	1,334.5	633,502.80	737,465.16	32.7399139	-103.6954690
PPP2: 1220' FNL & 500' - plan hits target center - Point	0.00	0.00	9,572.5	-1,836.0	1,343.7	632,283.00	737,474.44	32.7365611	-103.6954627
BHL: 100' FSL & 500' FE - plan hits target center - Point	0.00	0.00	9,754.0	-10,974.0	1,413.3	623,145.00	737,544.00	32.7114440	-103.6954154

Mewbourne Oil Company, Mysterio 19/30 Fed 527H
Sec 18, T18S, R33E
SHL: 525' FSL 1830' FEL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

*Please refer to most recently approved NOI
appended to this application updated changes to well

Well Location **GL: 3844'**

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 525' FSL & 1830' FEL (Sec 18)	NMNM000093	SWSE	18	18S	33E	Lea	32.7416296	- 103.6997969	0'	0'
KOP	KOP: 473' FSL & 500' FEL (Sec 18)	NMNM000093	SESE	18	18S	33E	Lea	32.3741488	- 103.6954721	8,975'	9,097'
FTP	FTP/LP: 100' FNL & 500' FEL (Sec 19)	NMLC0069420	NENE	19	18S	33E	Lea	32.7399138	- 103.6954688	9,548'	9,997'
PPP2	PPP2: 1220' FNL & 500' FEL (Sec 19)	NMLC0069276	SENE	19	18S	33E	Lea	32.7365611	- 103.6954625	9,572'	11,217'
BHL	BHL: 100' FSL & 500' FEL (Sec 30)	NMLC0069276	SESE	30	18S	33E	Lea	32.7114441	- 103.6954154	9,754'	20,357'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	1374'	Dolomite/Anhydrite	Usable Water	Delaware (Lamar)			
Castile				Bell Canyon			
Salt Top	1483'	Salt	None	Cherry Canyon	5081'	Sandstone	Oil/Natural Gas
Marker Bed 126				Manzanita Marker			
Salt Base	2697'	Salt	None	Basal Brushy Canyon	5738'	Sandstone	Oil/Natural Gas
Yates	2866'	Sandstone	Oil/Natural Gas	Bone Spring	6871'	Limestone/Shale	Oil/Natural Gas
Seven Rivers	3362'	Dolomite	Oil/Natural Gas	1st Bone Spring Carbonate			
Queen	4105'	Sandstone/Dolomite	Oil/Natural Gas	1st Bone Spring Sand	8499'	Sandstone	Oil/Natural Gas
Capitan				2nd Bone Spring Carbonate	8776'	Limestone	Oil/Natural Gas
Grayburg	4409'	0	None	2nd Bone Spring Sand	**9021'**	Sandstone	Oil/Natural Gas
San Andres	4855'	Dolomite	Oil/Natural Gas	3rd Bone Spring Carbonate	9759'	Limestone	Oil/Natural Gas
Glorietta				3rd Bone Spring Sand	9934'	Sandstone	Oil/Natural Gas
Yeso				Wolfcamp	10258'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom MD	Bottom TVD	Casing Description	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	1450'	1450'	13.375" 48# H40 STC	1.19	2.67	4.63	7.77
Intermediate	12.25"	0'	0'	3000'	3000'	9.625" 36# J55 LTC	1.27	2.21	4.19	5.22
Production	8.75"	0'	0'	9997'	9548'	7" 26# P110 LTC	1.29	2.07	2.67	3.19
Liner	6.75"	9097'	8975'	20357'	9754'	4.5" 13.5# P110 LTC	1.83	2.13	2.22	2.78

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	**Y**
Is casing API approved? If no, attach casing specification sheet.	**Y**
Is premium or uncommon casing planned? If yes attach casing specification sheet.	**N**
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	**Y**
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	**Y**
Is well located within Capitan Reef?	**N**
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	**N**
Is well located in SOPA but not in R-111-Q?	**N**
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	**N**
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	**N**
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	**N**
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Mysterio 19/30 Fed 527H
Sec 18, T18S, R33E
SHL: 525' FSL 1830' FEL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Design A - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft^3/sack)	Depth (MD)	Volume (ft^3)	% Excess	Slurry Description
13.375 in	LEAD	830	12.5	2.12	0' - 1258'	1760	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1258' - 1450'	268		Class C: Retarder
9.625 in	LEAD	420	12.5	2.12	0' - 2312'	900	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2312' - 3000'	268		Class C: Retarder
7 in	LEAD	570	12.5	2.12	2800' - 7340'	1210	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	600	15.6	1.18	7340' - 9997'	708		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	1020	13.5	1.85	9097' - 20357'	1890	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Pressure Control Equipment

BOP installed and tested before drilling hole (in):	Size (in)	System Rated WP	Type		Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#/3500#	20,357'
		5M	Blind Ram	X	5000#	
			Pipe Ram	X		
			Double Ram			
			Other*			

*Specify if additional ram is utilized.

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.

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.

Y	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.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt (ppg)	Mud Type
0' - 1450'	8.4 - 8.6	Fresh Water
1450' - 3000'	10.0 - 10.2	Brine
3000' - 9997'	8.6 - 9.7	Cut-Brine
9997' - 20357'	10.0 - 11.5	OBM

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

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring

Mewbourne Oil Company, Mysterio 19/30 Fed 527H
Sec 18, T18S, R33E
SHL: 525' FSL 1830' FEL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from KOP (9097') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	No logs are planned based on well control or offset log information. Offset Well:
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

☐	Caliper	☐	Cement Bond Log	☐	CNL/FDC
☐	Compensated Densilog	☑	**Compensated Neutron Log**	☐	Computer Generated Log
☐	Dip Meter Log	☑	**Directional Survey**	☐	Dual Induction/Microresistivity
☐	Dual Lateral Log/Microspherically Focused	☐	Electric Log	☐	Formation Density Compensated Log
☑	**Gamma Ray Log**	☑	**Measurement While Drilling**	☐	Mud Log/Geological Lithology Log
☐	Other	☐	Porosity-Resistivity Log	☐	Sidewall Neutron Log
☐	Sonic Log	☐	Spontaneous Potential Log	☐	Temperature Log

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5833 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface 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 is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

Mewbourne Oil Company, Mysterio 19/30 Fed 527H
Sec 18, T18S, R33E
SHL: 525' FSL 1830' FEL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Other facets of operation

Mewbourne Oil Company also requests approval to implement additional designs as described below &/or in other attachments. BLM will be notified of elected design.

Offline Cementing Variance: Variance is requested to perform offline cementing according to the attached procedure. **R-111Q:** Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash.

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	**Hole Diameter (in)**	**Top MD**	**Top TVD**	**Bottom MD**	**Bottom TVD**	**Casing Description**	**SF Collapse**	**SF Burst**	**SF Jt Tension**	**SF Body Tension**
Surface	17.5"	0'	0'	1450'	1450'	13.375" 48# H40 STC	1.19	2.67	4.63	7.77
Intermediate	12.25"	0'	0'	3000'	3000'	9.625" 36# J55 LTC	1.27	2.21	4.19	5.22
Production	8.75"	0'	0'	9997'	9548'	7" 26# P110 LTC	1.29	2.07	2.67	3.19
Liner	6.75"	9097'	8975'	20357'	9754'	4.5" 13.5# P110 LTC	1.83	2.13	2.22	2.78

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	**Y**
Is casing API approved? If no, attach casing specification sheet.	**Y**
Is premium or uncommon casing planned? If yes attach casing specification sheet.	**N**
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	**Y**
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	**Y**
Is well located within Capitan Reef?	**N**
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	**N**
Is well located in SOPA but not in R-111-Q?	**N**
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	**N**
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	**N**
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	**N**
If yes, are there three strings cemented to surface?	

Design B - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft^3/sack)	Depth (MD)	Volume (ft^3)	% Excess	Slurry Description
13.375 in	LEAD	830	12.5	2.12	0' - 1258'	1760	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1258' - 1450'	268		Class C: Retarder
9.625 in	LEAD	420	12.5	2.12	0' - 2312'	900	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2312' - 3000'	268		Class C: Retarder
1st Stg 7 in	LEAD	570	12.5	2.12	2800' - 7340'	1210	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	600	15.6	1.18	7340' - 9997'	708		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	1020	13.5	1.85	9097' - 20357'	1890	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

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:** 5/27/25

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
MYSTERIO 19/30 FED COM 527H		O 18 18S 33E	525' FSL x 1830' FEL	2000	1500	1500
				Y1-700 Y2-500 Y3-300	Y1-1000 Y2-700 Y3-400	Y1-300 Y2-200 Y3-150

IV. Central Delivery Point Name: MYSTERIO 19/30 FED COM 527H [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
MYSTERIO 19/30 FED COM 527H		6/27/25	7/27/25	8/27/25	9/11/25	9/16/25

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.

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

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	5/27/25
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.

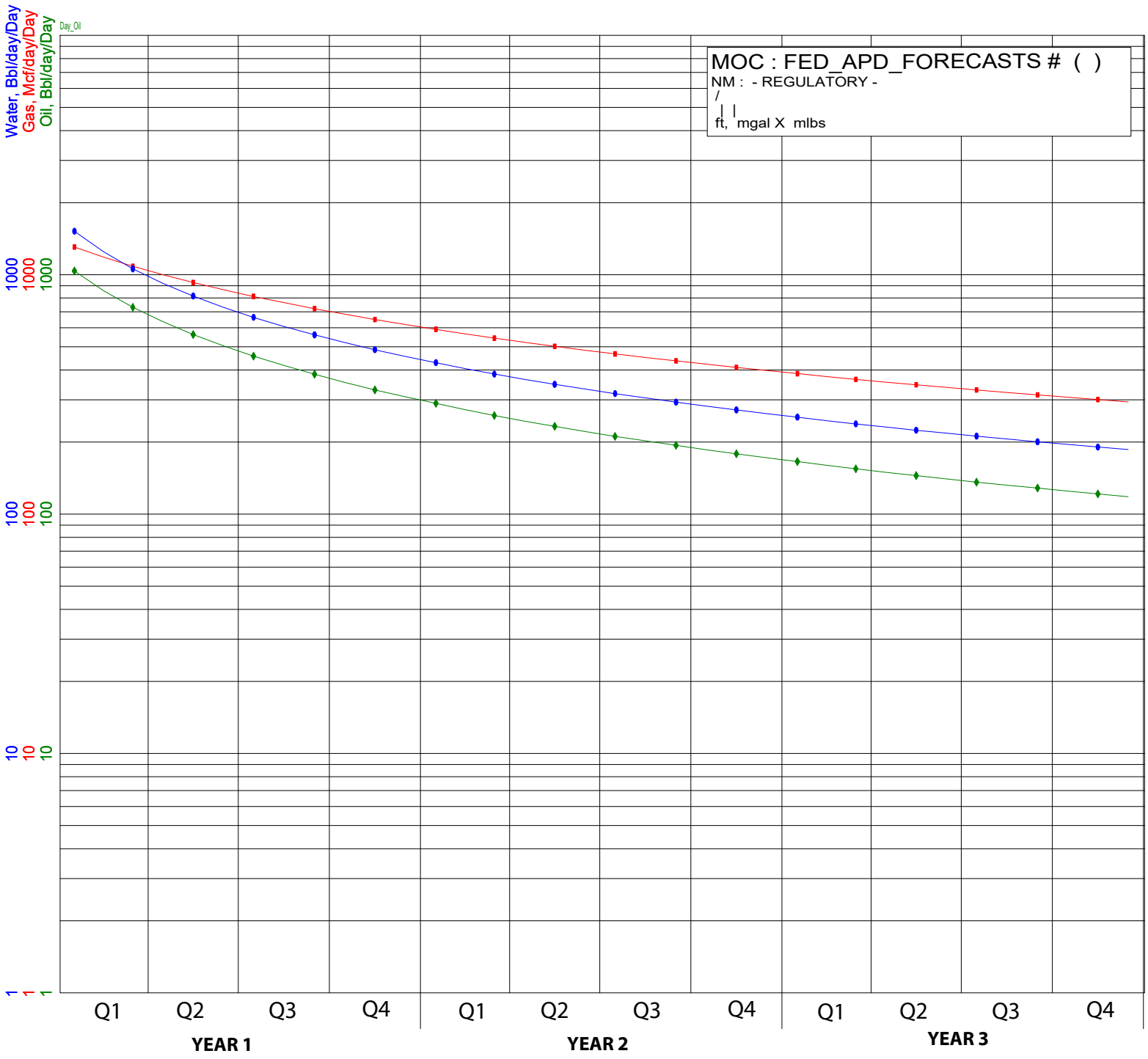
D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting 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 pressureventing 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 thediversion 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

Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	332092
EUR=	332092
Yrs=	3.000
Qi=	1150.0
b=	0.950000
De=	74.000000
Df=	23.848091
Qab=	116.7

Gas, Mcf/day

Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	621833
EUR=	621833
Yrs=	3.000
Qi=	1375.0
b=	1.050000
De=	56.000000
Df=	20.240305
Qab=	291.1

Water, Bbl/d

Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	492387
EUR=	492387
Yrs=	3.000
Qi=	1700.0
b=	1.050000
De=	74.000000
Df=	22.172770
Qab=	183.7

Mewbourne Oil Company, Mysterio 19/30 Fed 527H
Sec 18, T18S, R33E
SHL: 525' FSL 1830' FEL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Well Location **GL: 3844'**

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 525' FSL & 1830' FEL (Sec 18)	NMNM000093	SWSE	18	18S	33E	Lea	32.7416296	- 103.6997969	0'	0'
KOP	KOP: 473' FSL & 500' FEL (Sec 18)	NMNM000093	SESE	18	18S	33E	Lea	32.3741488	- 103.6954721	8,975'	9,097'
FTP	FTP/LP: 100' FNL & 500' FEL (Sec 19)	NMLC0069420	NENE	19	18S	33E	Lea	32.7399138	- 103.6954688	9,548'	9,997'
PPP2	PPP2: 1220' FNL & 500' FEL (Sec 19)	NMLC0069276	SENE	19	18S	33E	Lea	32.7365611	- 103.6954625	9,572'	11,217'
BHL	BHL: 100' FSL & 500' FEL (Sec 30)	NMLC0069276	SESE	30	18S	33E	Lea	32.7114441	- 103.6954154	9,754'	20,357'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	1374'	Dolomite/Anhydrite	Usable Water	Delaware (Lamar)			
Castile				Bell Canyon			
Salt Top	1483'	Salt	None	Cherry Canyon	5081'	Sandstone	Oil/Natural Gas
Marker Bed 126				Manzanita Marker			
Salt Base	2697'	Salt	None	Basal Brushy Canyon	5738'	Sandstone	Oil/Natural Gas
Yates	2866'	Sandstone	Oil/Natural Gas	Bone Spring	6871'	Limestone/Shale	Oil/Natural Gas
Seven Rivers	3362'	Dolomite	Oil/Natural Gas	1st Bone Spring Carbonate			
Queen	4105'	Sandstone/Dolomite	Oil/Natural Gas	1st Bone Spring Sand	8499'	Sandstone	Oil/Natural Gas
Capitan				2nd Bone Spring Carbonate	8776'	Limestone	Oil/Natural Gas
Grayburg	4409'	0	None	2nd Bone Spring Sand	**9021'**	Sandstone	Oil/Natural Gas
San Andres	4855'	Dolomite	Oil/Natural Gas	3rd Bone Spring Carbonate	9759'	Limestone	Oil/Natural Gas
Glorietta				3rd Bone Spring Sand	9934'	Sandstone	Oil/Natural Gas
Yeso				Wolfcamp	10258'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom MD	Bottom TVD	Casing Description	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	1450'	1450'	13.375" 48# H40 STC	1.19	2.67	4.63	7.77
Intermediate	12.25"	0'	0'	3000'	3000'	9.625" 36# J55 LTC	1.27	2.21	4.19	5.22
Production	8.75"	0'	0'	9997'	9548'	7" 26# P110 LTC	1.29	2.07	2.67	3.19
Liner	6.75"	9097'	8975'	20357'	9754'	4.5" 13.5# P110 LTC	1.83	2.13	2.22	2.78

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	**Y**
Is casing API approved? If no, attach casing specification sheet.	**Y**
Is premium or uncommon casing planned? If yes attach casing specification sheet.	**N**
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	**Y**
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	**Y**
Is well located within Capitan Reef?	**N**
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	**N**
Is well located in SOPA but not in R-111-Q?	**N**
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	**N**
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	**N**
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	**N**
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Mysterio 19/30 Fed 527H
Sec 18, T18S, R33E
SHL: 525' FSL 1830' FEL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Design A - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft^3/sack)	Depth (MD)	Volume (ft^3)	% Excess	Slurry Description
13.375 in	LEAD	830	12.5	2.12	0' - 1258'	1760	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1258' - 1450'	268		Class C: Retarder
9.625 in	LEAD	420	12.5	2.12	0' - 2312'	900	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2312' - 3000'	268		Class C: Retarder
7 in	LEAD	570	12.5	2.12	2800' - 7340'	1210	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	600	15.6	1.18	7340' - 9997'	708		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	1020	13.5	1.85	9097' - 20357'	1890	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Pressure Control Equipment

BOP installed and tested before drilling hole (in):	Size (in)	System Rated WP	Type		Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#/3500#	20,357'
		5M	Blind Ram	X	5000#	
			Pipe Ram	X		
			Double Ram			
			Other*			

*Specify if additional ram is utilized.

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.

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.

Y	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.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt (ppg)	Mud Type
0' - 1450'	8.4 - 8.6	Fresh Water
1450' - 3000'	10.0 - 10.2	Brine
3000' - 9997'	8.6 - 9.7	Cut-Brine
9997' - 20357'	10.0 - 11.5	OBM

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

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring

Mewbourne Oil Company, Mysterio 19/30 Fed 527H
Sec 18, T18S, R33E
SHL: 525' FSL 1830' FEL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from KOP (9097') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	No logs are planned based on well control or offset log information. Offset Well:
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

☐	Caliper	☐	Cement Bond Log	☐	CNL/FDC
☐	Compensated Densilog	☑	**Compensated Neutron Log**	☐	Computer Generated Log
☐	Dip Meter Log	☑	**Directional Survey**	☐	Dual Induction/Microresistivity
☐	Dual Lateral Log/Microspherically Focused	☐	Electric Log	☐	Formation Density Compensated Log
☑	**Gamma Ray Log**	☑	**Measurement While Drilling**	☐	Mud Log/Geological Lithology Log
☐	Other	☐	Porosity-Resistivity Log	☐	Sidewall Neutron Log
☐	Sonic Log	☐	Spontaneous Potential Log	☐	Temperature Log

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5833 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface 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 is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

Mewbourne Oil Company, Mysterio 19/30 Fed 527H
Sec 18, T18S, R33E
SHL: 525' FSL 1830' FEL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Other facets of operation

Mewbourne Oil Company also requests approval to implement additional designs as described below &/or in other attachments. BLM will be notified of elected design.

Offline Cementing Variance: Variance is requested to perform offline cementing according to the attached procedure. **R-111Q:** Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash.

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	**Hole Diameter (in)**	**Top MD**	**Top TVD**	**Bottom MD**	**Bottom TVD**	**Casing Description**	**SF Collapse**	**SF Burst**	**SF Jt Tension**	**SF Body Tension**
Surface	17.5"	0'	0'	1450'	1450'	13.375" 48# H40 STC	1.19	2.67	4.63	7.77
Intermediate	12.25"	0'	0'	3000'	3000'	9.625" 36# J55 LTC	1.27	2.21	4.19	5.22
Production	8.75"	0'	0'	9997'	9548'	7" 26# P110 LTC	1.29	2.07	2.67	3.19
Liner	6.75"	9097'	8975'	20357'	9754'	4.5" 13.5# P110 LTC	1.83	2.13	2.22	2.78

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Design B - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft^3/sack)	Depth (MD)	Volume (ft^3)	% Excess	Slurry Description
13.375 in	LEAD	830	12.5	2.12	0' - 1258'	1760	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1258' - 1450'	268		Class C: Retarder
9.625 in	LEAD	420	12.5	2.12	0' - 2312'	900	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2312' - 3000'	268		Class C: Retarder
1st Stg 7 in	LEAD	570	12.5	2.12	2800' - 7340'	1210	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	600	15.6	1.18	7340' - 9997'	708		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	1020	13.5	1.85	9097' - 20357'	1890	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

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:** 5/27/25

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
MYSTERIO 19/30 FED COM 527H		O 18 18S 33E	525' FSL x 1830' FEL	2000	1500	1500
				Y1-700 Y2-500 Y3-300	Y1-1000 Y2-700 Y3-400	Y1-300 Y2-200 Y3-150

IV. Central Delivery Point Name: MYSTERIO 19/30 FED COM 527H [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
MYSTERIO 19/30 FED COM 527H		6/27/25	7/27/25	8/27/25	9/11/25	9/16/25

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.

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

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	5/27/25
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.

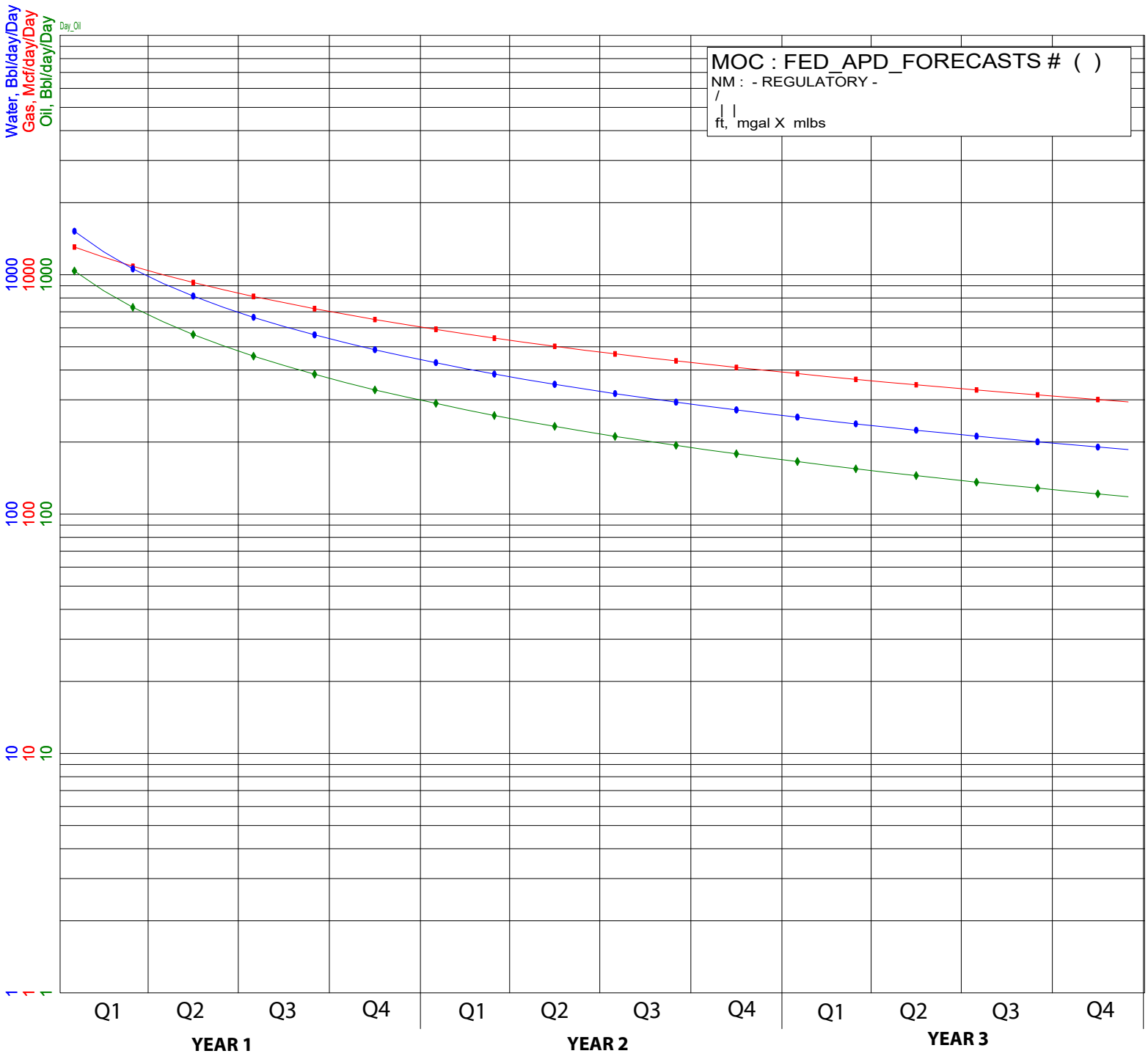
D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting 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 pressureventing 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 thediversion 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

Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	332092
EUR=	332092
Yrs=	3.000
Qi=	1150.0
b=	0.950000
De=	74.000000
Df=	23.848091
Qab=	116.7

Gas, Mcf/day

Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	621833
EUR=	621833
Yrs=	3.000
Qi=	1375.0
b=	1.050000
De=	56.000000
Df=	20.240305
Qab=	291.1

Water, Bbl/d

Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	492387
EUR=	492387
Yrs=	3.000
Qi=	1700.0
b=	1.050000
De=	74.000000
Df=	22.172770
Qab=	183.7

MEWBOURNE OIL COMPANY

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.

MEWBOURNE OIL COMPANY

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.

MEWBOURNE
OIL COMPANY

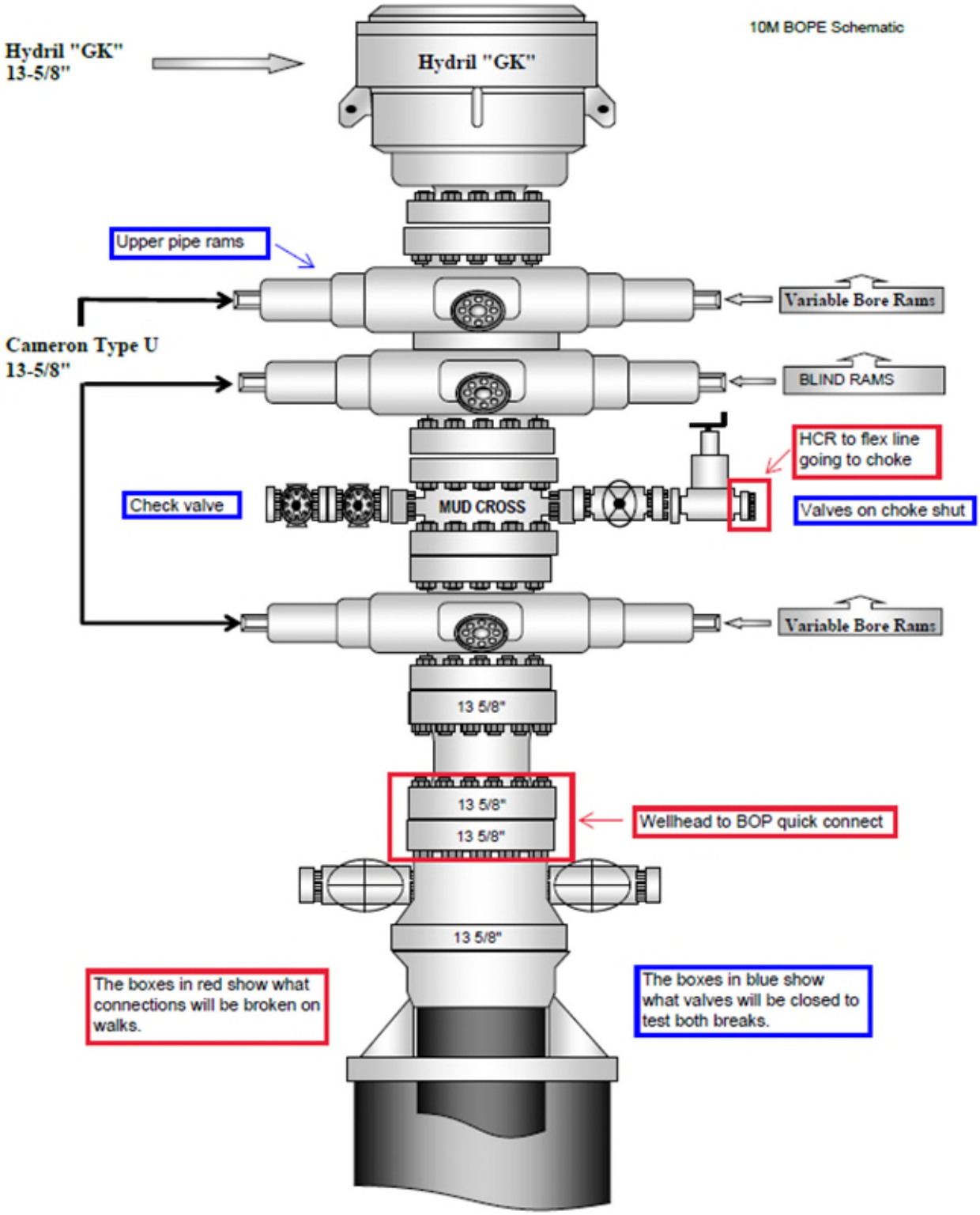


Figure 1. BOP diagram

MEWBOURNE OIL COMPANY

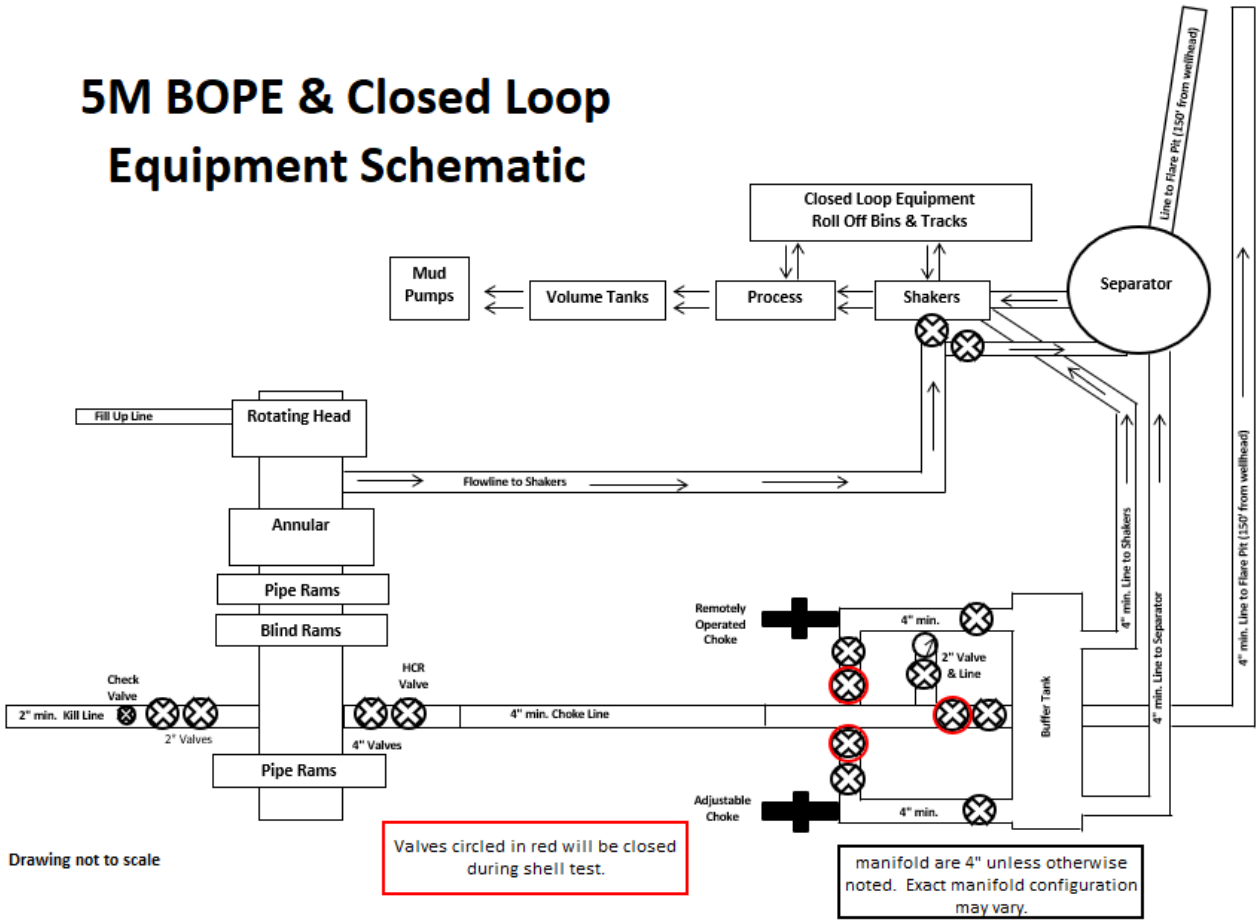


Figure 2. BOPE diagram

MEWBOURNE
OIL COMPANY

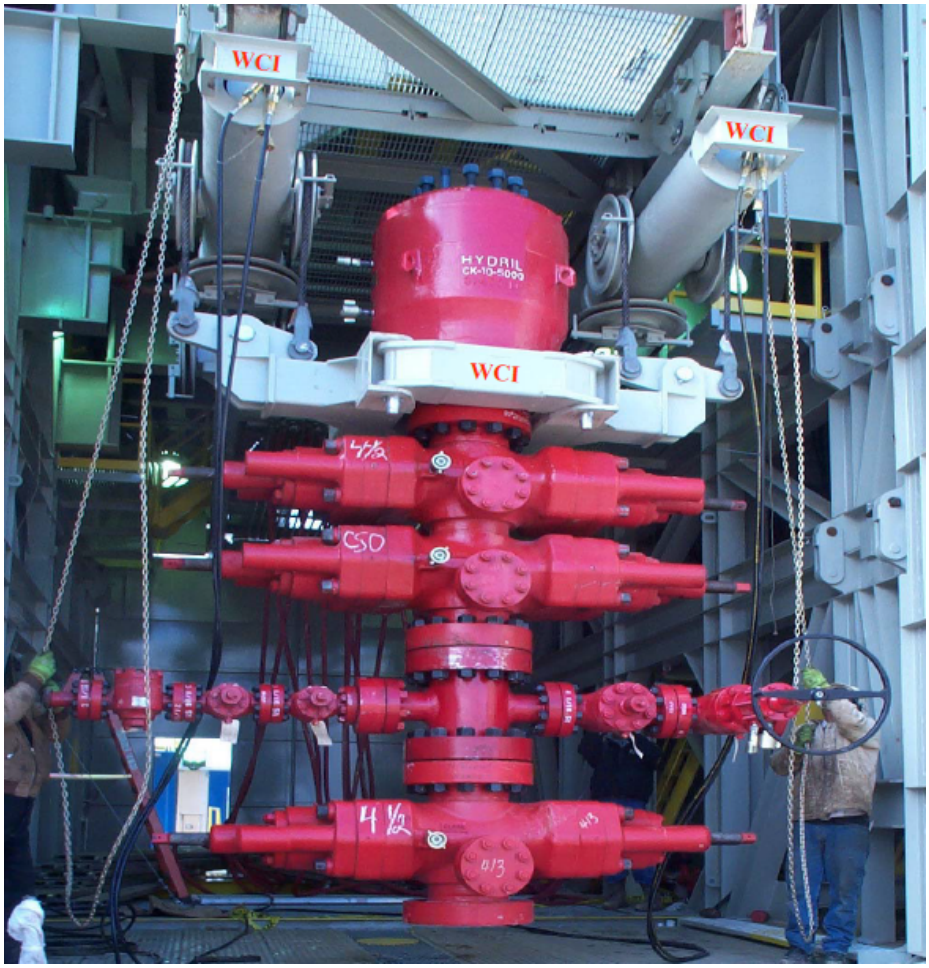


Figure 3. BOP handling system

MEWBOURNE
OIL COMPANY

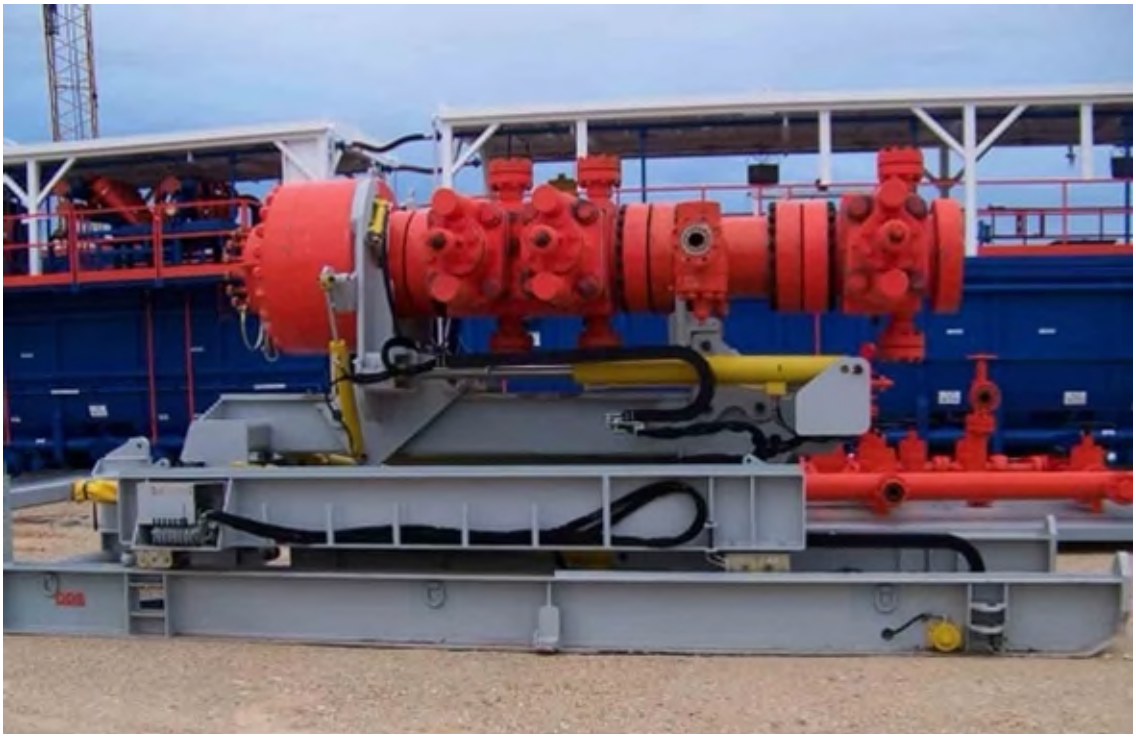


Figure 4. BOP handling system

MEWBOURNE
OIL COMPANY

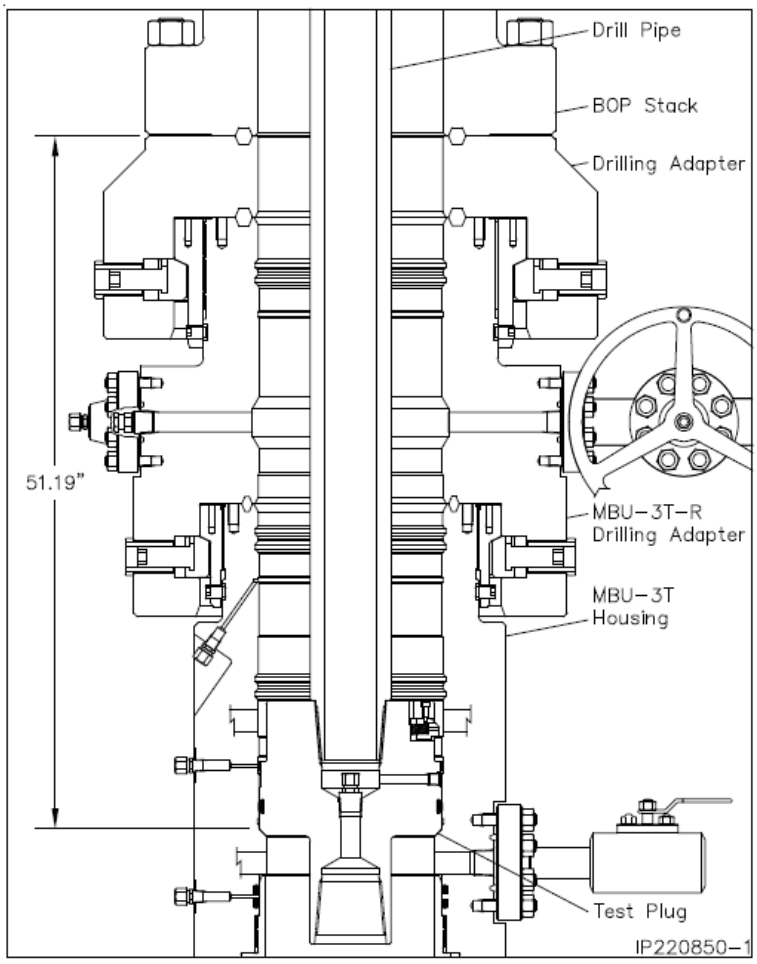


Figure 5. Cactus 5M wellhead with BOP quick connect

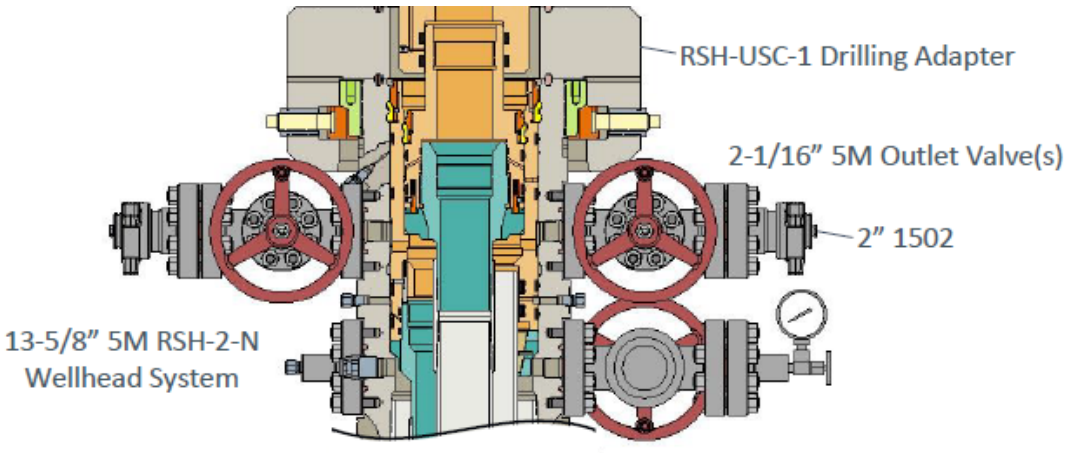


Figure 6. Vault 5M wellhead with BOP quick connect

MEWBOURNE OIL COMPANY

Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

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

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

Surface Casing Order of Operations:

1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static.
4. Make up 13 ⅝" wellhead or wellhead landing ring assembly and land on 20" conductor.
5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint.
8. Walk rig to next well on pad with cement crew standing by to rig up.
9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
10. Make up cement head on top of offline cement tool with forklift.
11. Commence cement operations.
12. If cement circulates, confirm well is static and proceed to step 16.
13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
15. Confirm well is static.
16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
17. Install wellhead capping flange.

Barriers

Before Walk:

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

MEWBOURNE
OIL COMPANY

After Walk:

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

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

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

Barriers

Before Walk:

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

After Walk:

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

MEWBOURNE
OIL COMPANY

Intermediate Casing Order of Operations:

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

Barriers

Before Nipple Down:

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

After Nipple Down:

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

MEWBOURNE OIL COMPANY

Risks:

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

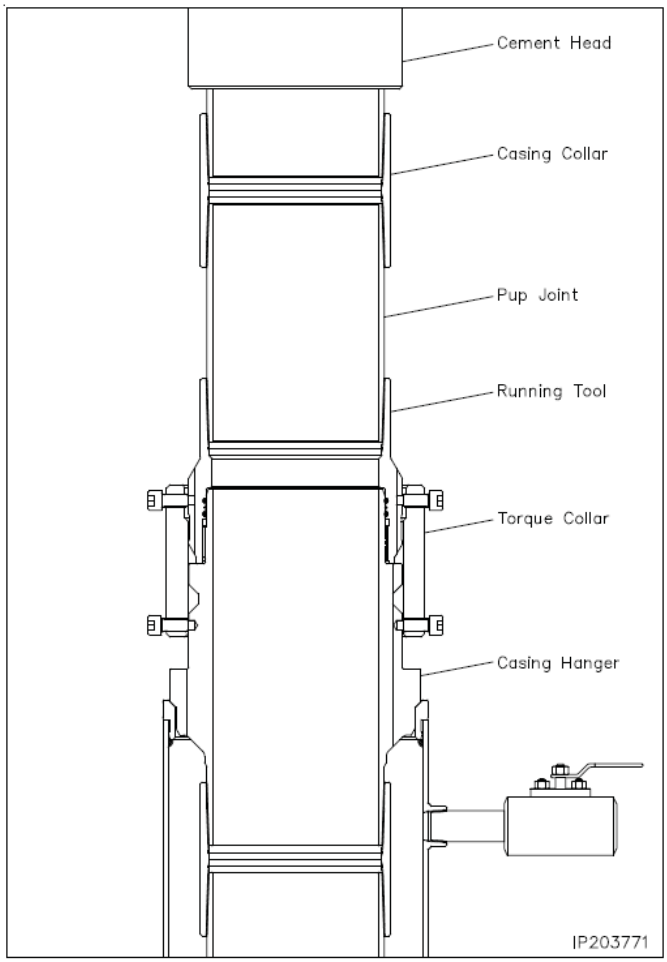


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

MEWBOURNE OIL COMPANY

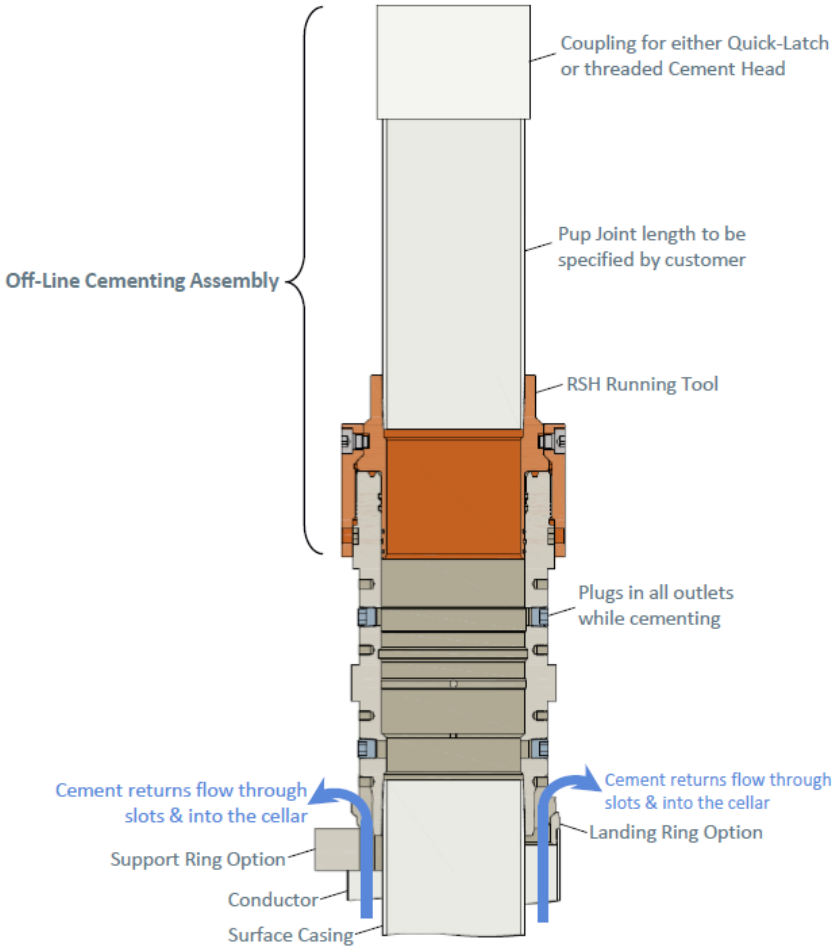


Figure 2. Vault 13 3/8” 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8” pup joint and casing.

MEWBOURNE
OIL COMPANY

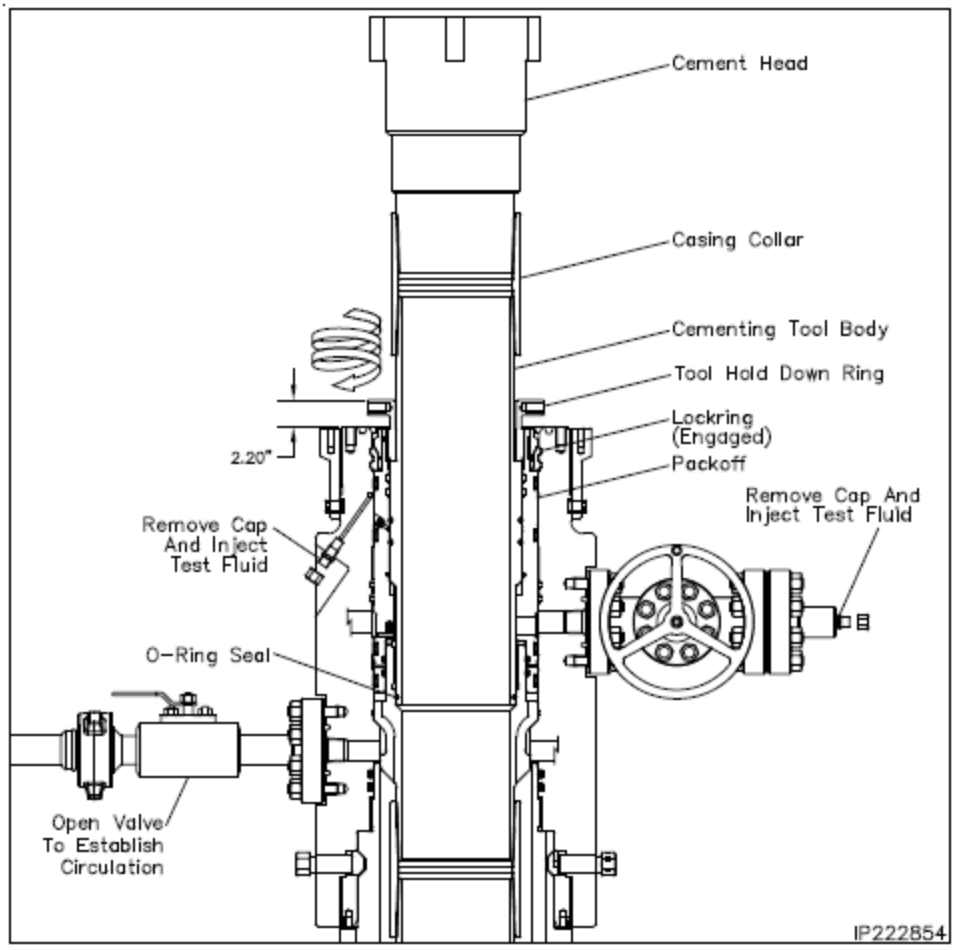


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

MEWBOURNE OIL COMPANY

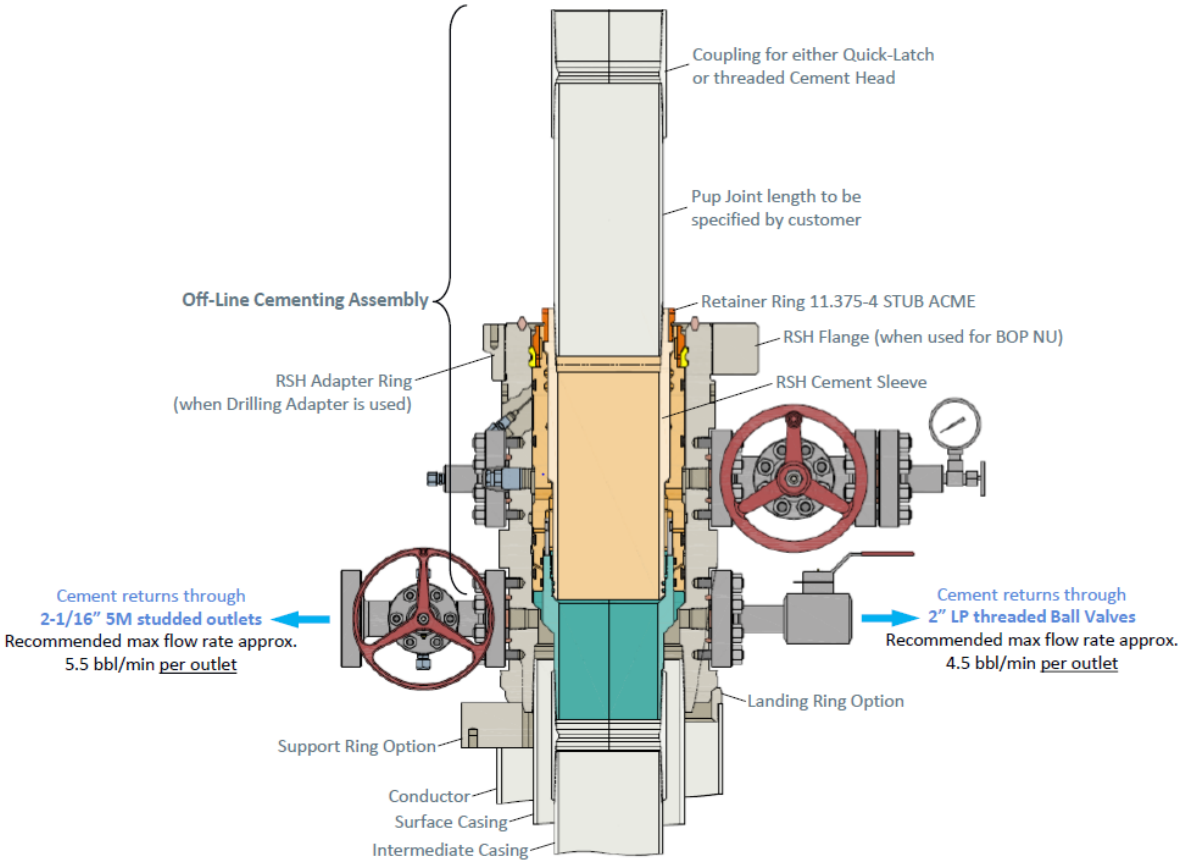


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

MEWBOURNE
OIL COMPANY

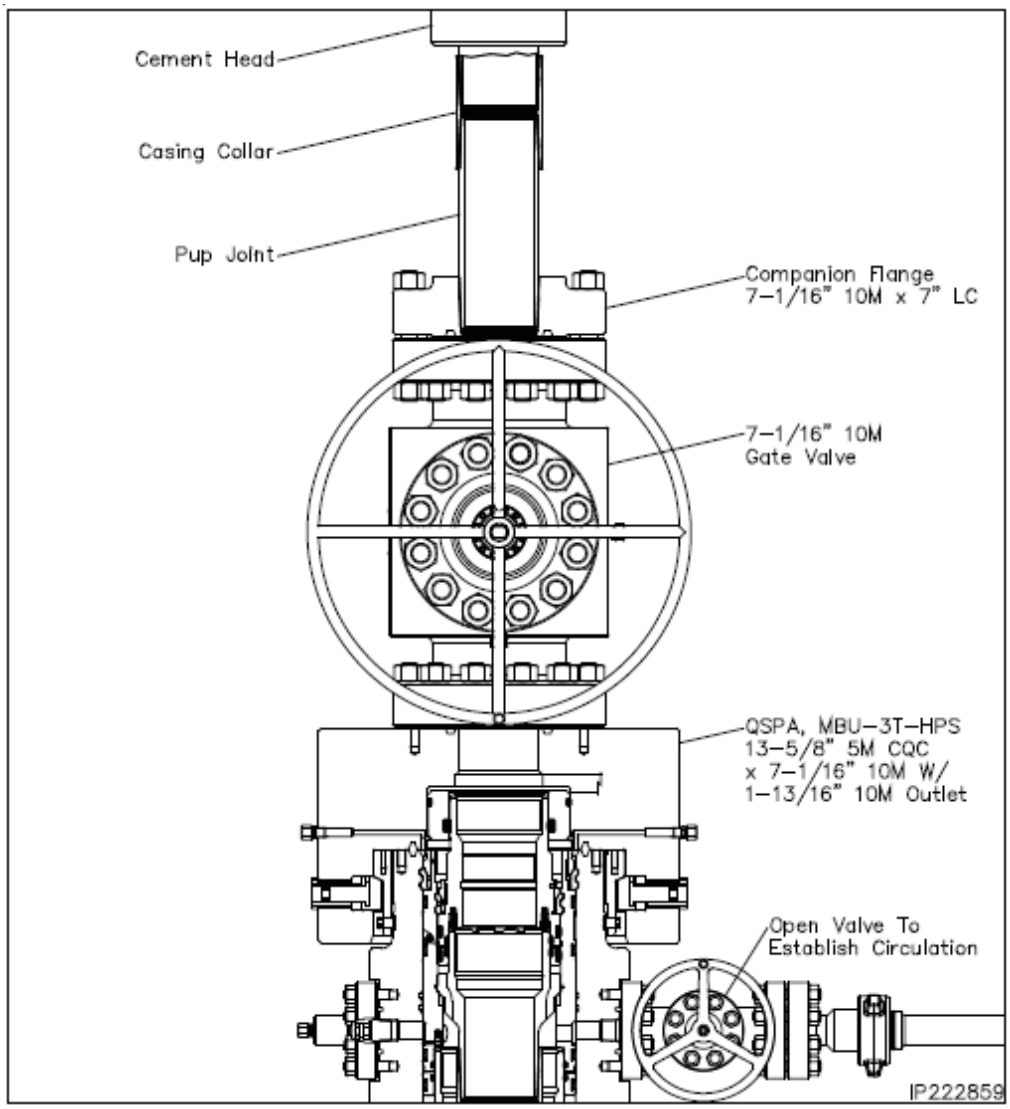


Figure 5. Cactus 7” 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7” pup joint and casing.

MEWBOURNE
OIL COMPANY

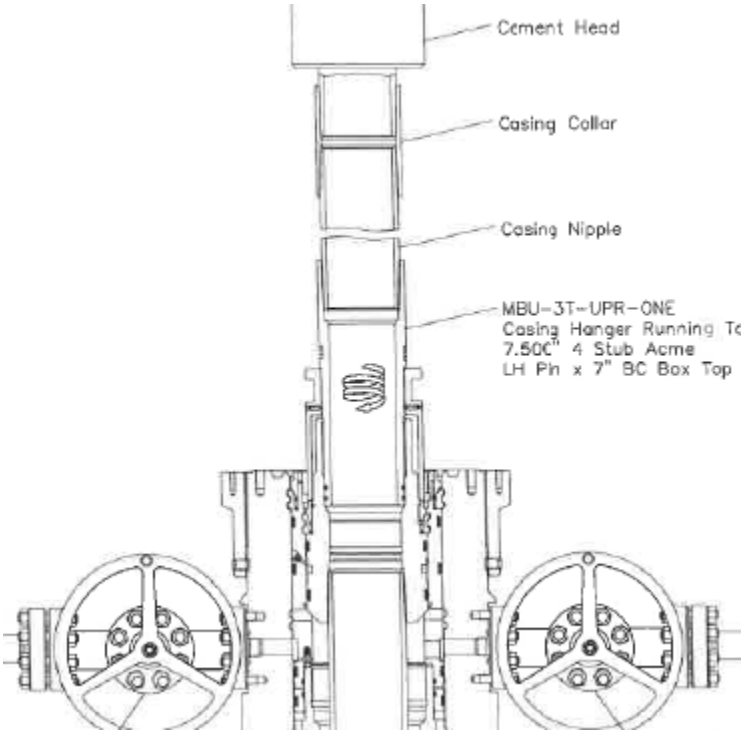


Figure 6. Cactus 7” 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7” pup joint and casing.

MEWBOURNE OIL COMPANY

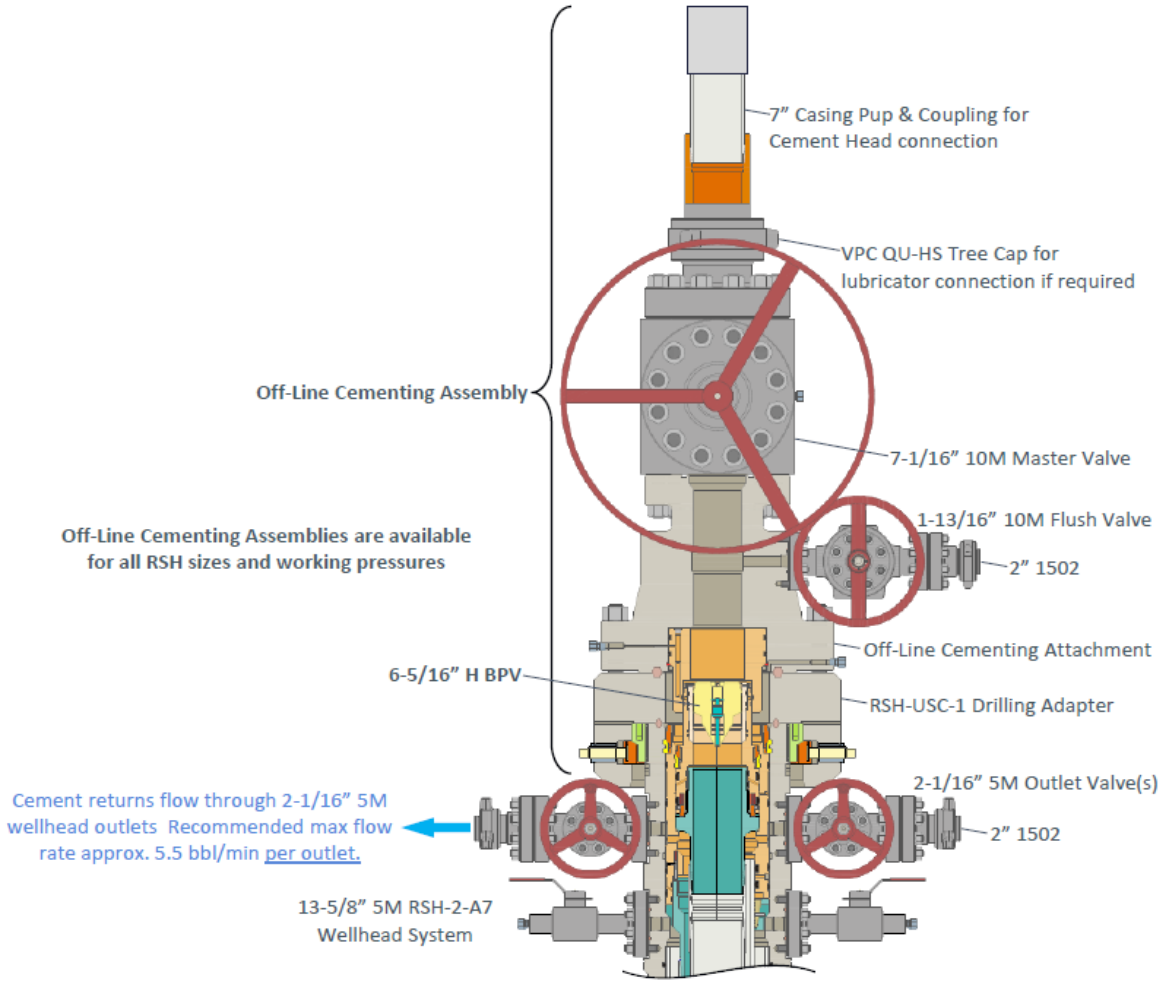


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

MEWBOURNE
OIL COMPANY

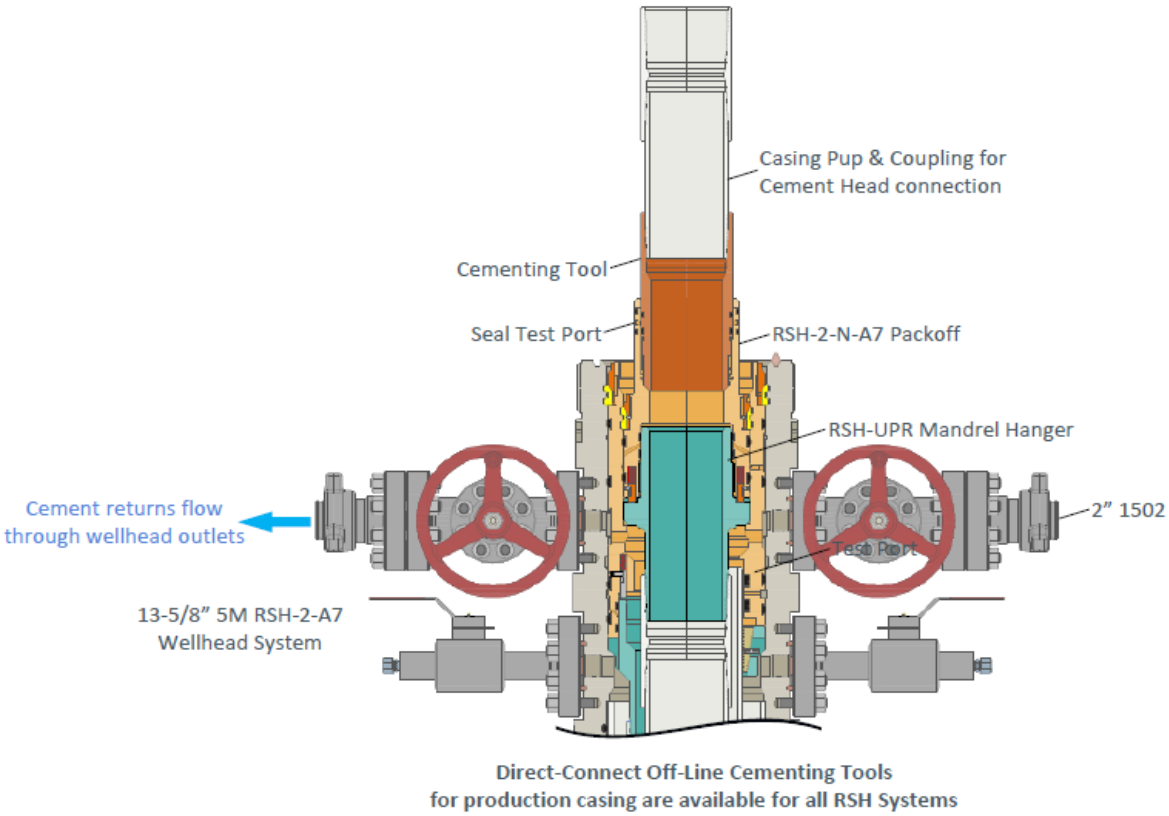


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

MEWBOURNE
OIL COMPANY

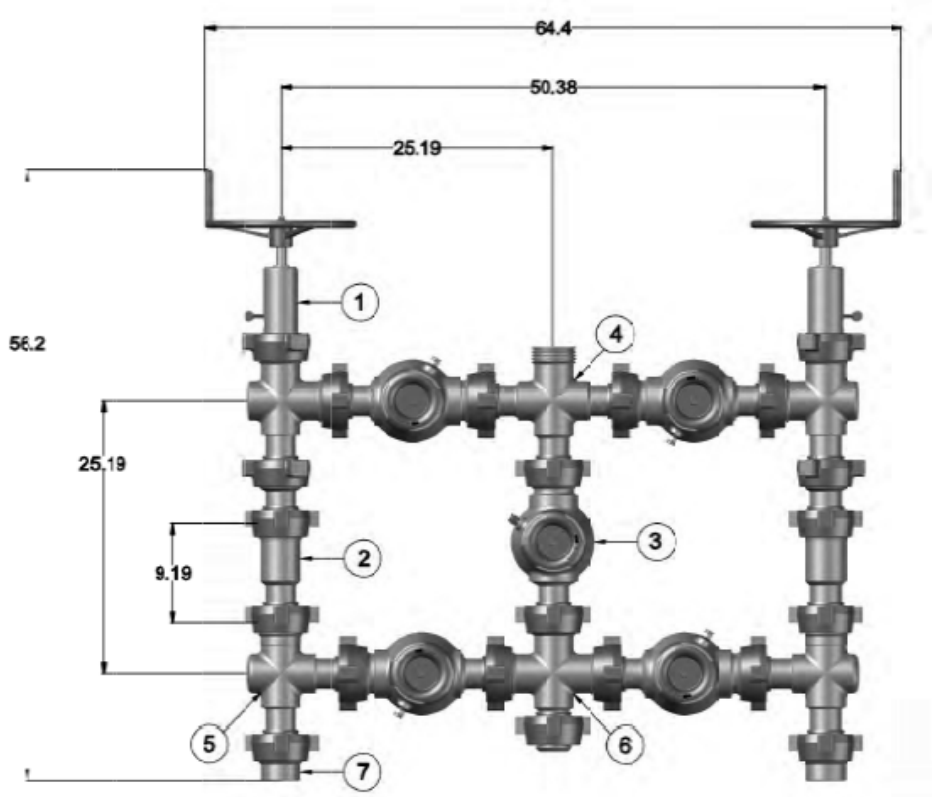


Figure 9. Five valve 15k choke manifold.

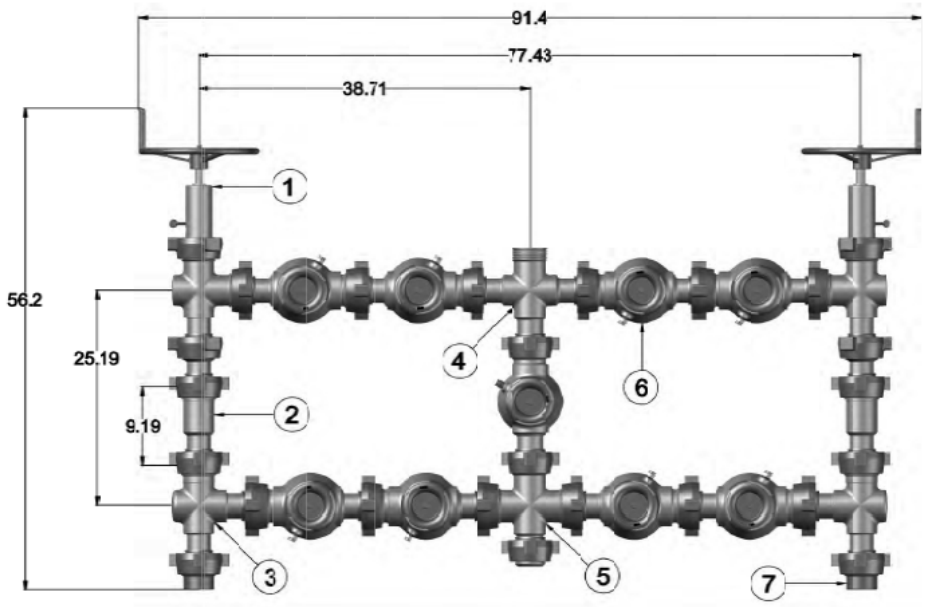


Figure 10. Nine valve 15k choke manifold.

MEWBOURNE OIL COMPANY

Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

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

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

Surface Casing Order of Operations:

1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static.
4. Make up 13 ⅝" wellhead or wellhead landing ring assembly and land on 20" conductor.
5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint.
8. Walk rig to next well on pad with cement crew standing by to rig up.
9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
10. Make up cement head on top of offline cement tool with forklift.
11. Commence cement operations.
12. If cement circulates, confirm well is static and proceed to step 16.
13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
15. Confirm well is static.
16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
17. Install wellhead capping flange.

Barriers

Before Walk:

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

MEWBOURNE
OIL COMPANY

After Walk:

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

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

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

Barriers

Before Walk:

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

After Walk:

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

MEWBOURNE
OIL COMPANY

Intermediate Casing Order of Operations:

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

Barriers

Before Nipple Down:

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

After Nipple Down:

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

MEWBOURNE OIL COMPANY

Risks:

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

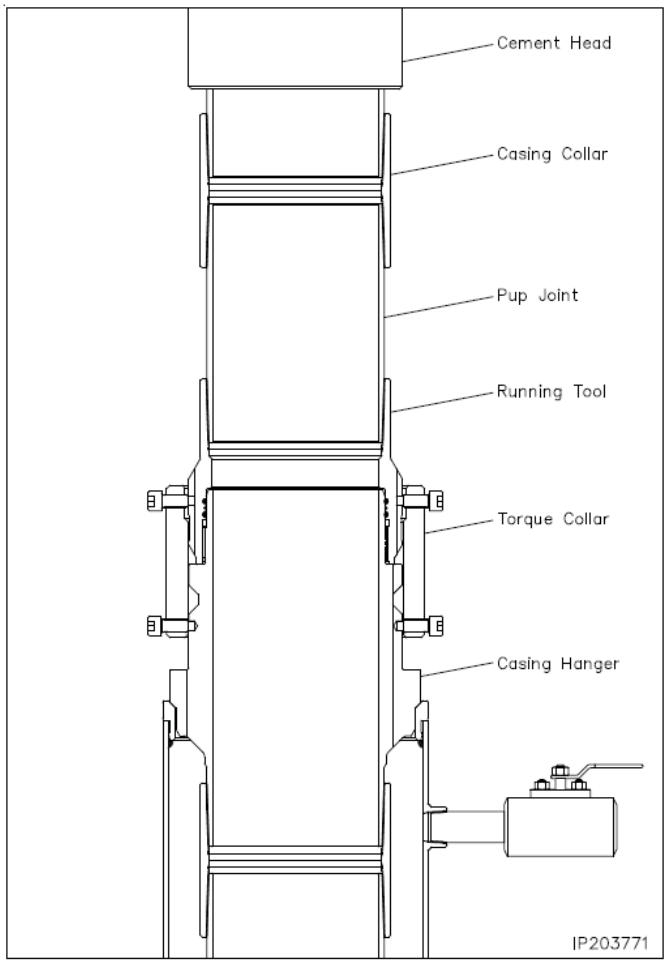


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

MEWBOURNE OIL COMPANY

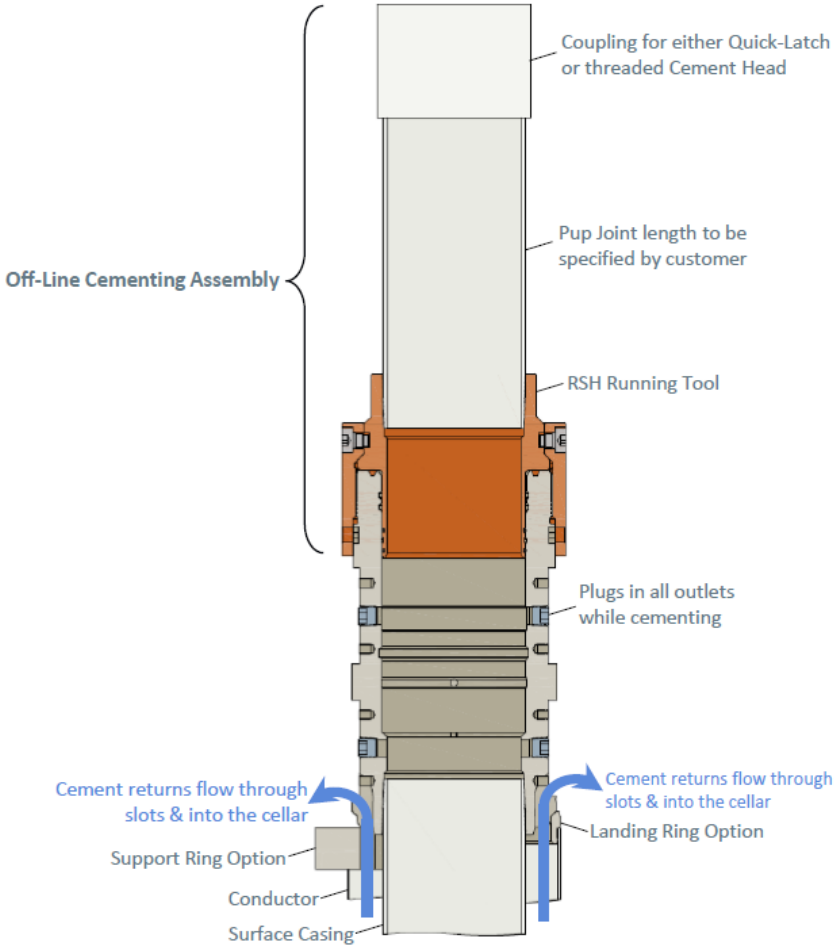


Figure 2. Vault 13 3/8” 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8” pup joint and casing.

MEWBOURNE
OIL COMPANY

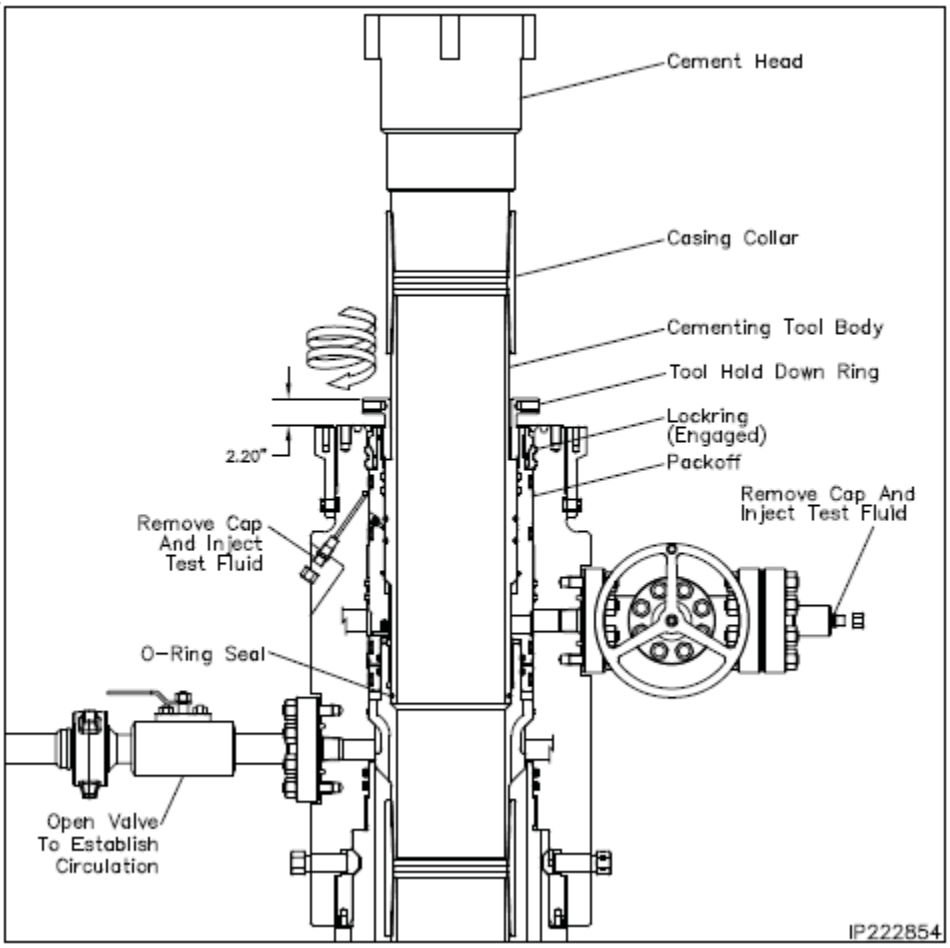


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

MEWBOURNE OIL COMPANY

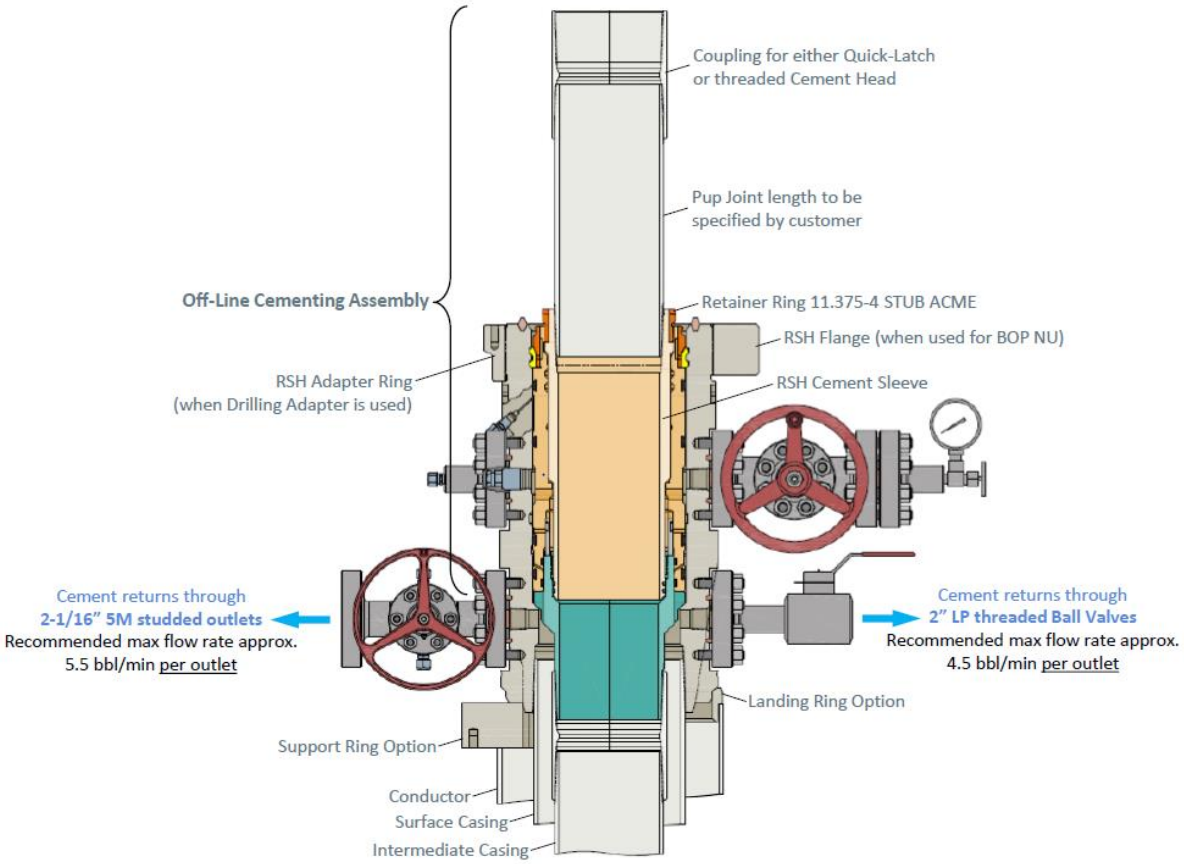


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

MEWBOURNE
OIL COMPANY

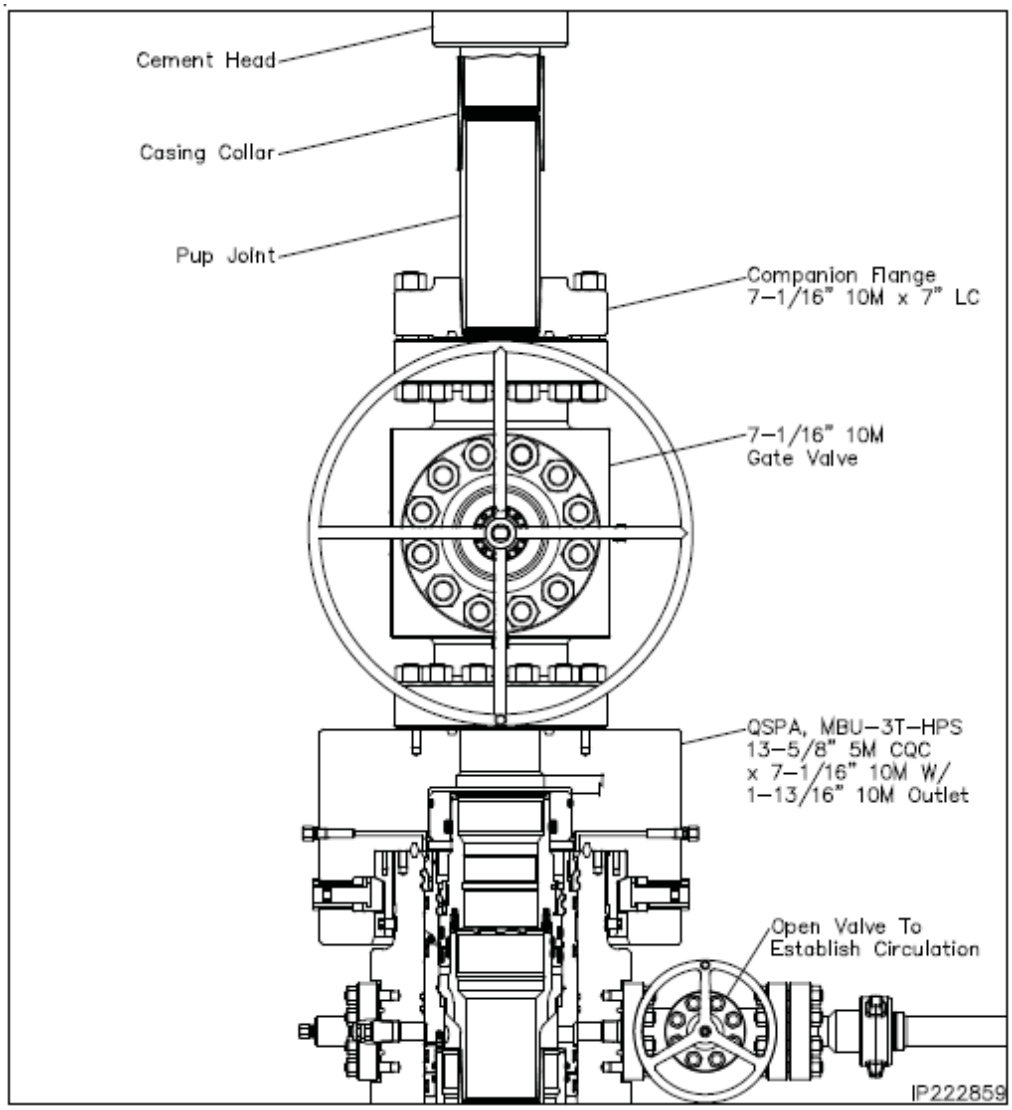


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

MEWBOURNE
OIL COMPANY

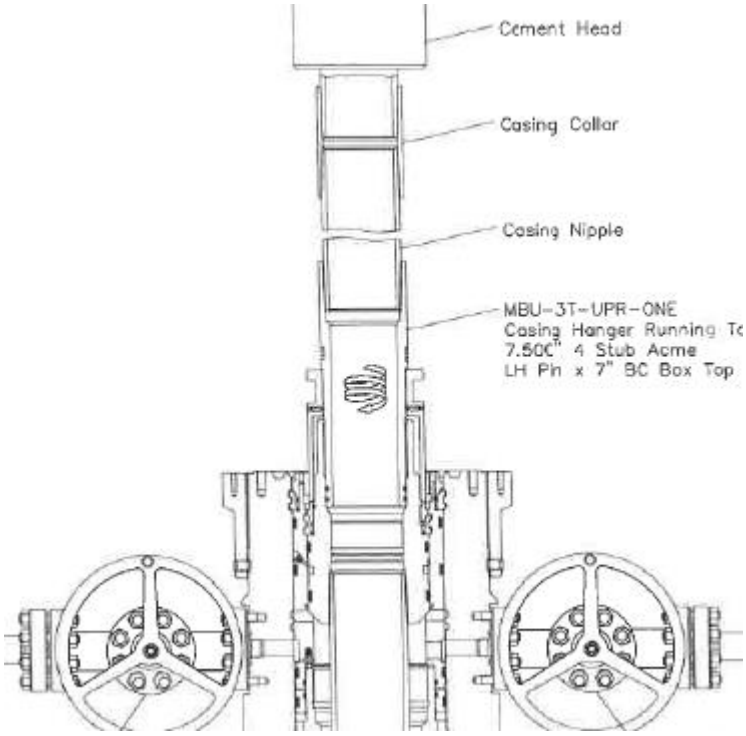


Figure 6. Cactus 7” 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7” pup joint and casing.

MEWBOURNE OIL COMPANY

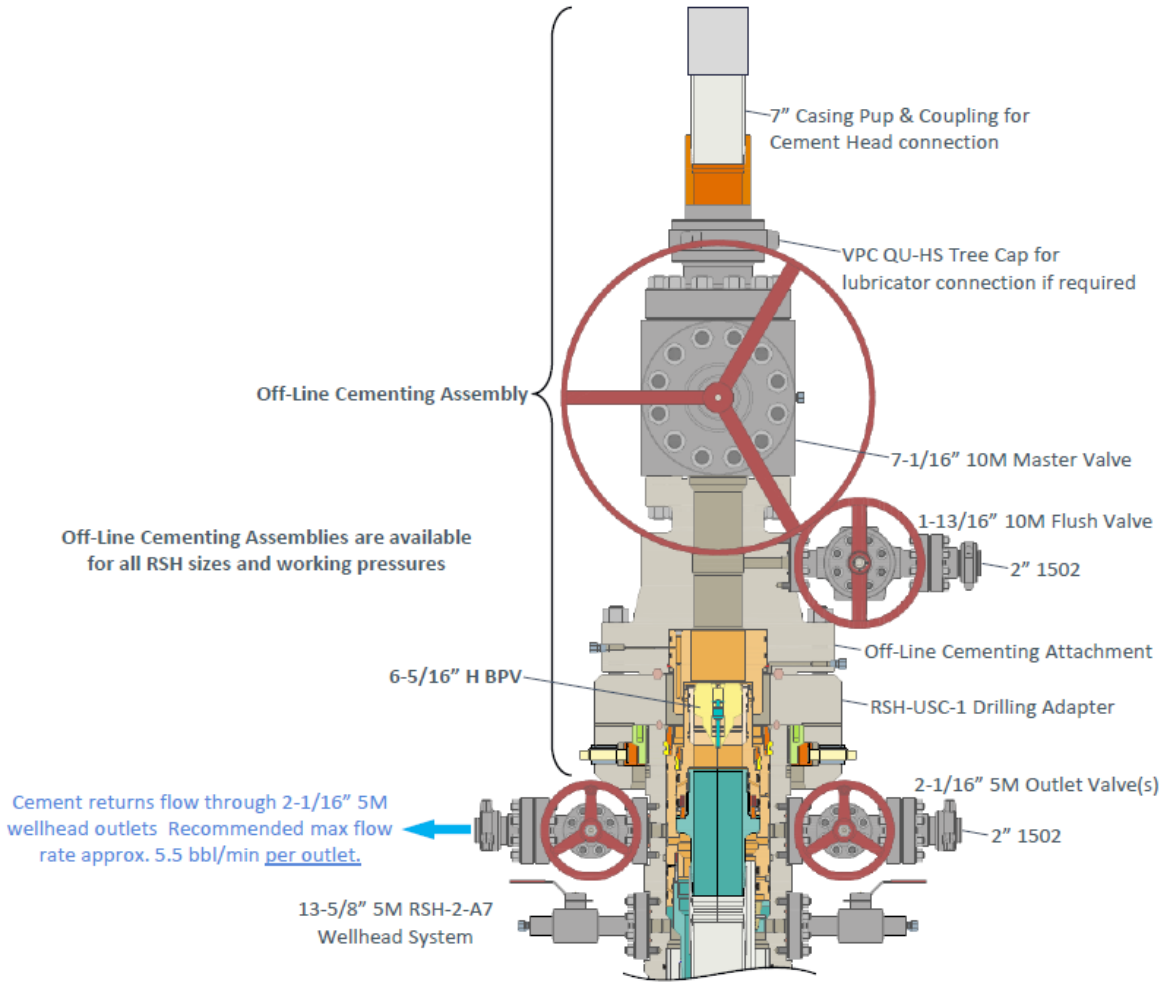


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

MEWBOURNE
OIL COMPANY

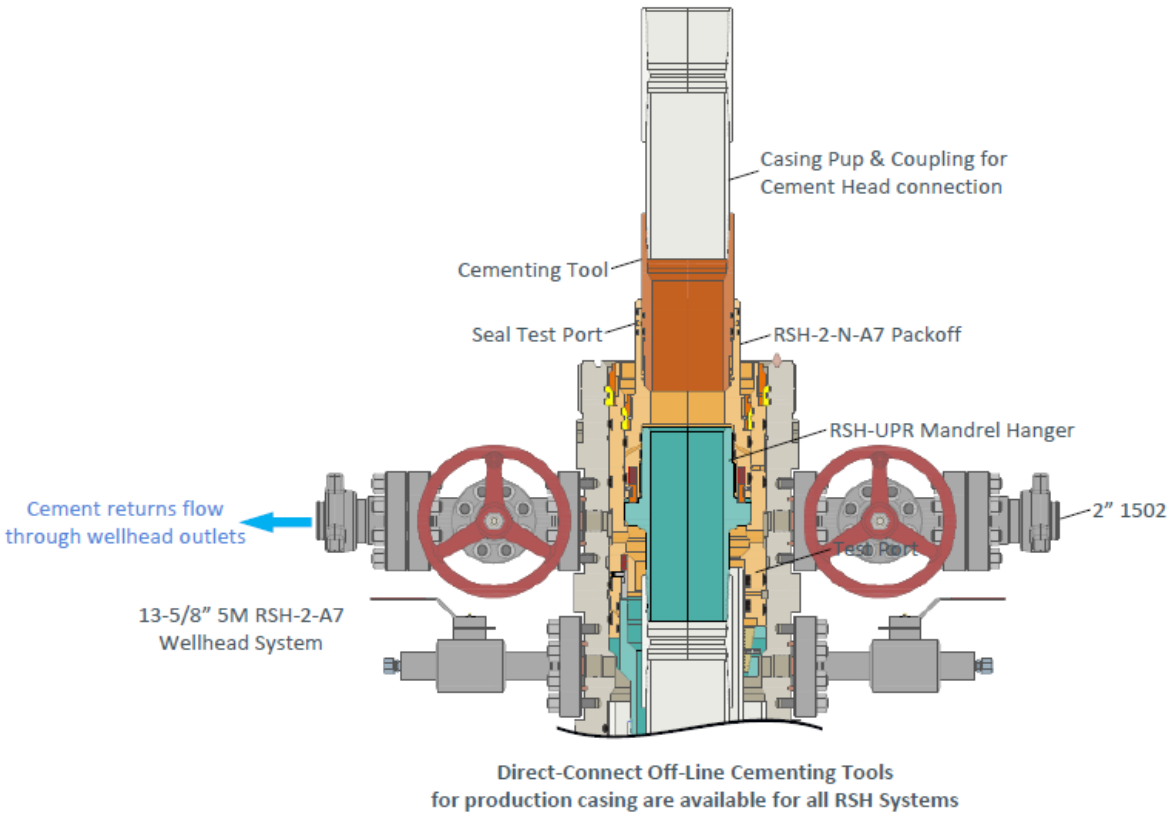


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

MEWBOURNE
OIL COMPANY

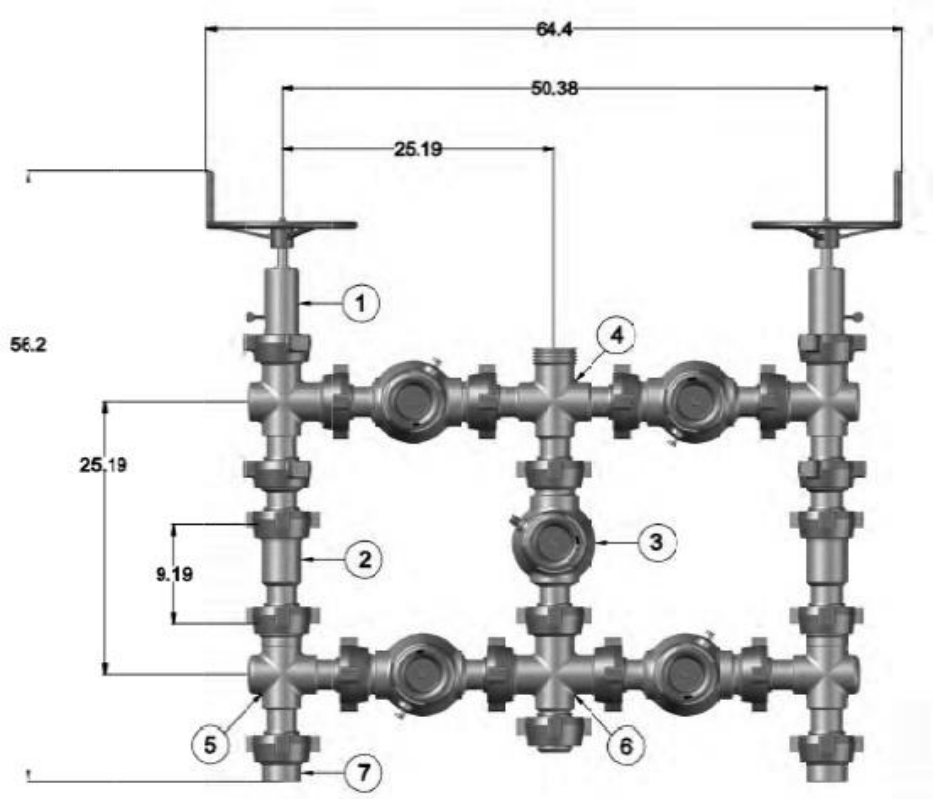


Figure 9. Five valve 15k choke manifold.

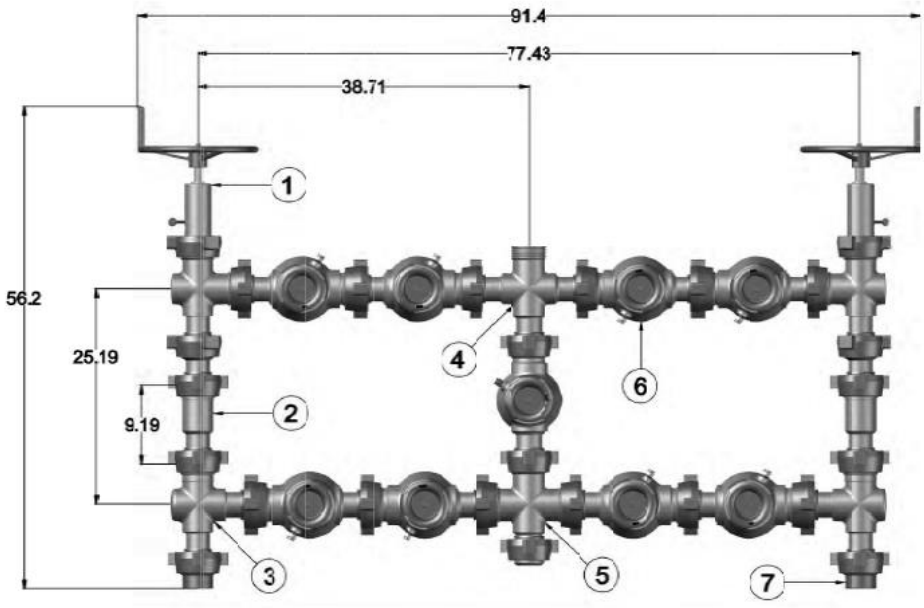


Figure 10. Nine valve 15k choke manifold.

MEWBOURNE OIL COMPANY

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.

MEWBOURNE OIL COMPANY

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.

MEWBOURNE
OIL COMPANY

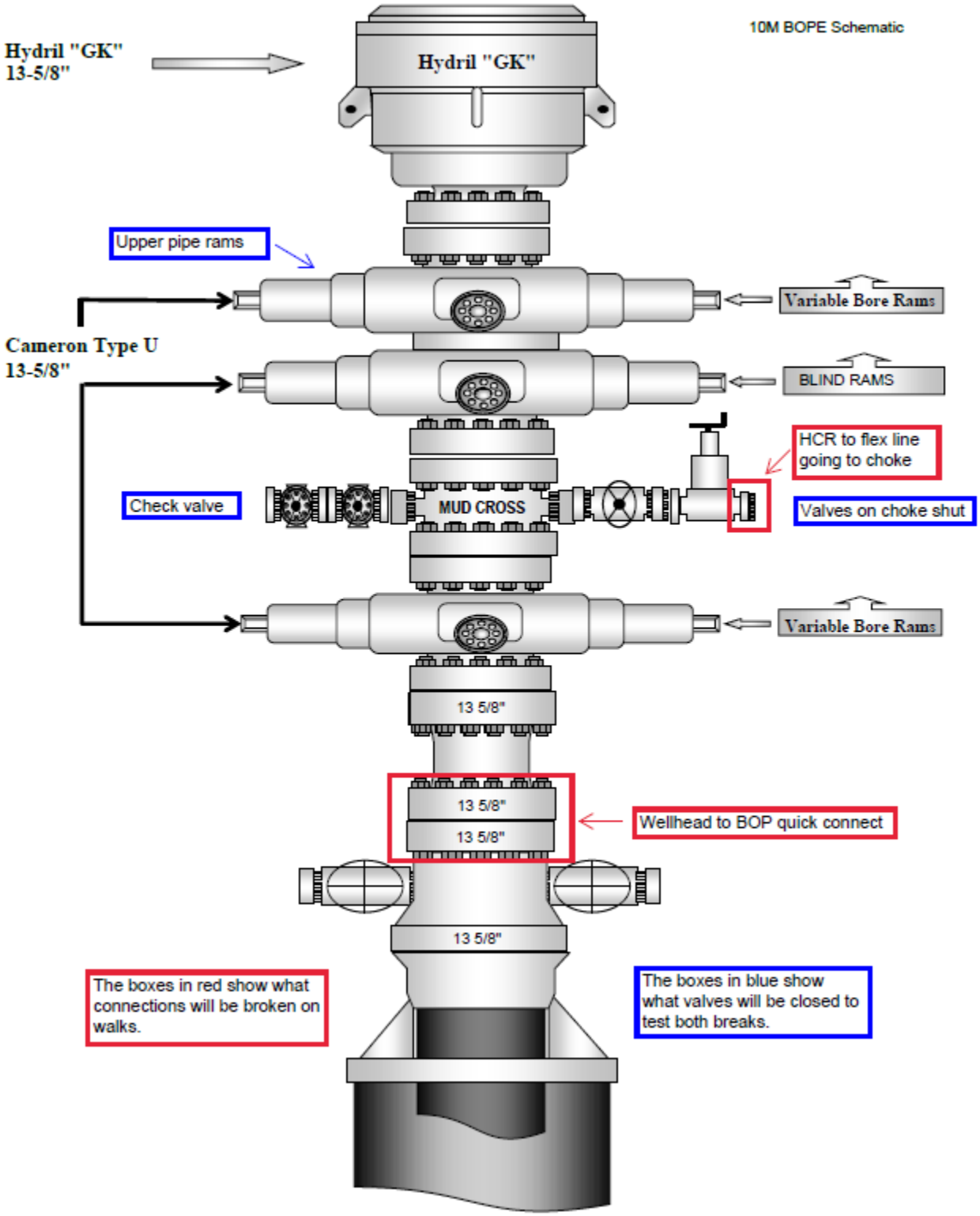


Figure 1. BOP diagram

MEWBOURNE
OIL COMPANY

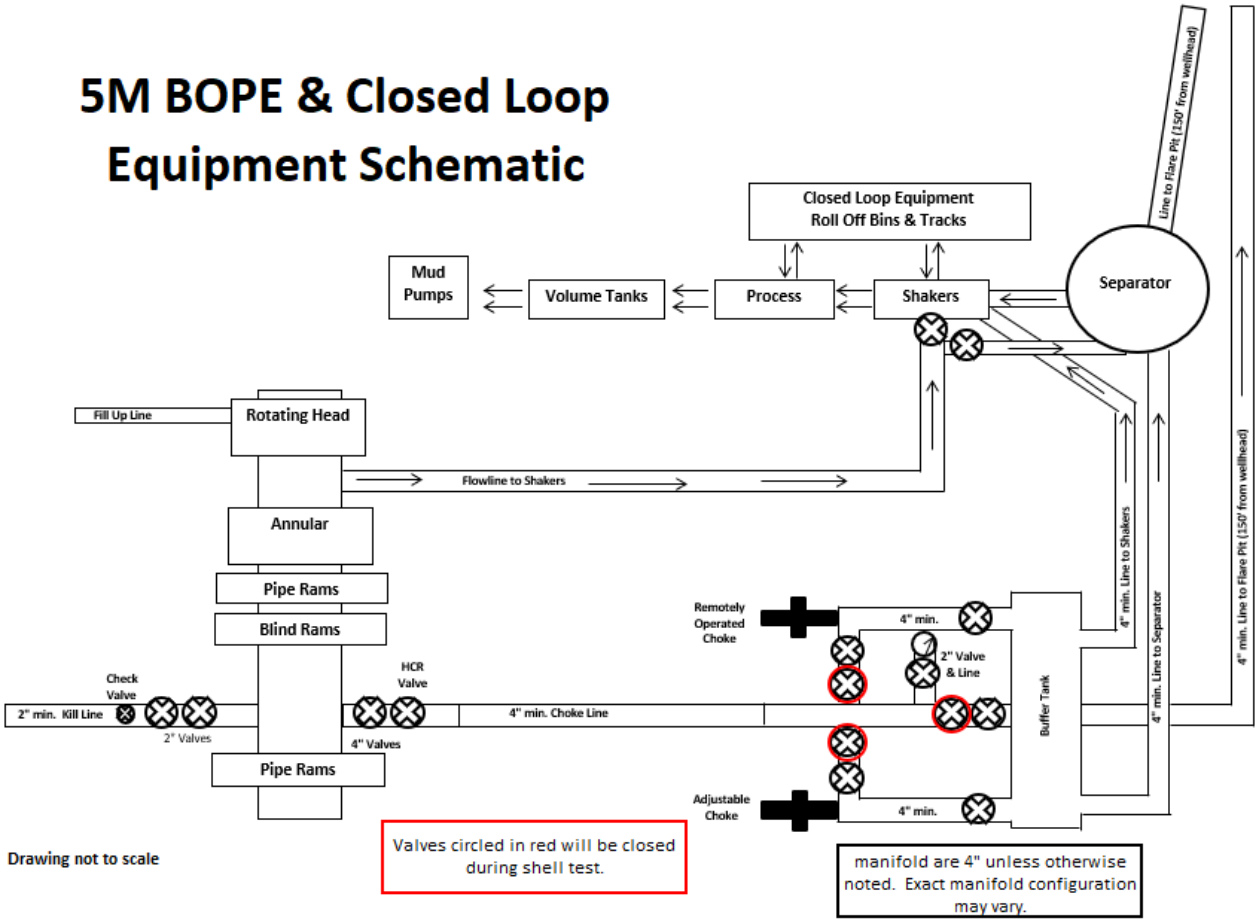


Figure 2. BOPE diagram

MEWBOURNE
OIL COMPANY



Figure 3. BOP handling system

MEWBOURNE
OIL COMPANY



Figure 4. BOP handling system

MEWBOURNE
OIL COMPANY

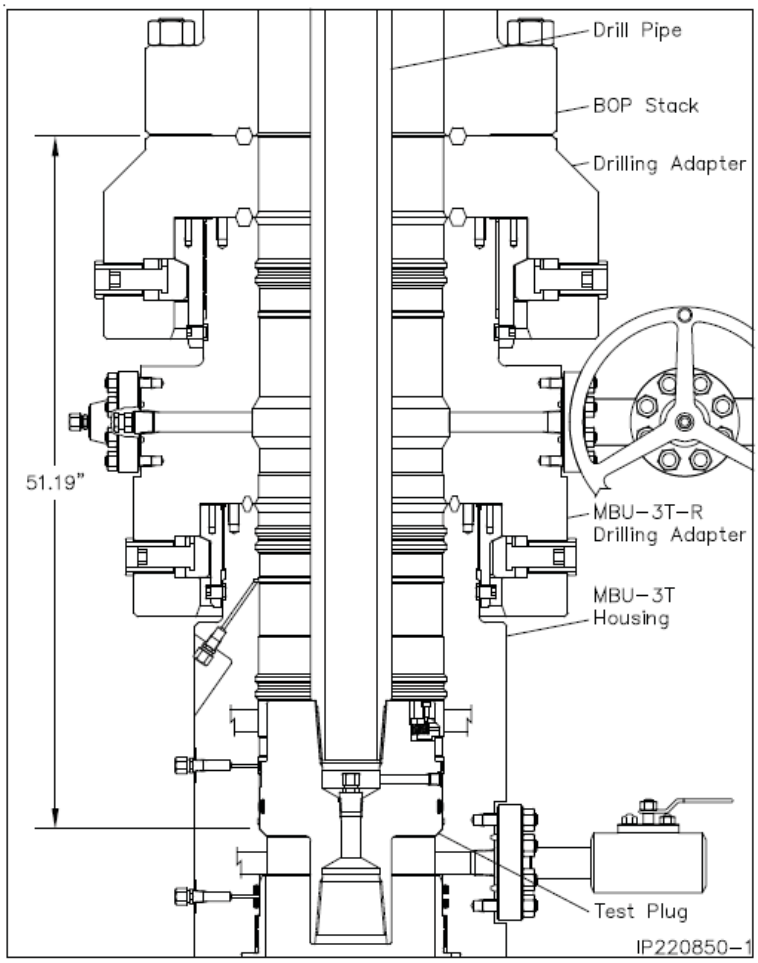


Figure 5. Cactus 5M wellhead with BOP quick connect

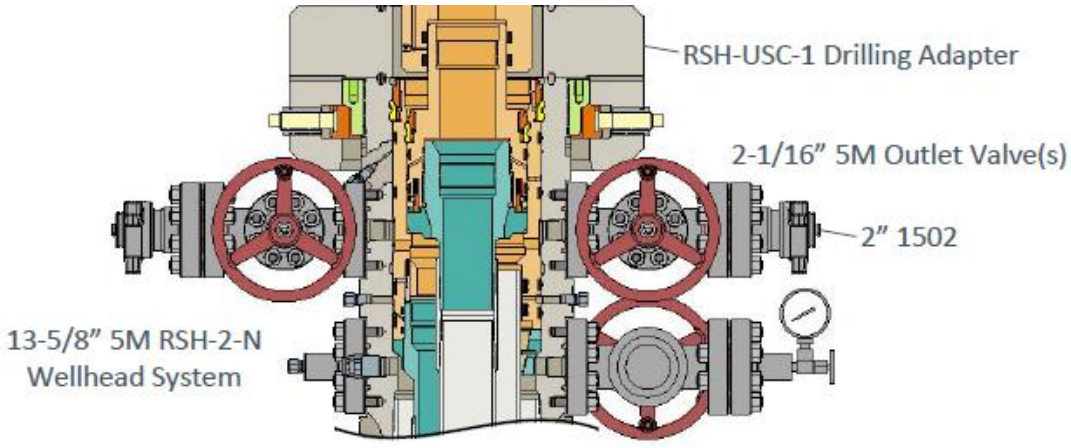


Figure 6. Vault 5M wellhead with BOP quick connect

AFMSS

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

SUPO Data Report

12/12/2025

APD ID: 10400105423
Submission Date: 09/03/2025

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED
Well Number: 527H

Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

MYSTERIO_19_30_FED_527H_ExistingRoadMap_20250611083658.pdf
MYSTERIO_19_30_FED_527H_ExistingRoadMap_20250826105256.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

MYSTERIO_19_30_FED_527H_NewRoadMap_20251023094809.pdf

New road type: RESOURCE

Length: 661.43 Feet

Width (ft.): 30

Max slope (%): 3

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: NA

New road access plan or profile prepared? N

New road access plan

CONFIDENTIAL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: NONE

Access topsoil source: OFFSITE

Access surfacing type description:

Access onsite topsoil source depth:

Offsite topsoil source description: NA

Onsite topsoil removal process:

Access other construction information: NA

Access miscellaneous information: NA

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Other Description: NA

Drainage Control comments: NA

Road Drainage Control Structures (DCS) description: NA

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

MYSTERIO_19_30_FED_527H_ExistingWellMap_20250611083724.pdf
MYSTERIO_19_30_FED_527H_ExistingWellMap_20250826105348.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Battery is in the SESW of S18 T18S R33E. 1- 4in buried FlexSteel flow line per well with working pressure of 250# (approx. 780), 1 - 4in buried poly gas supply line with working pressure of 150# (approx. 700), 1 - 2in buried poly air supply line with working pressure of 150# (approx. 700) 1 - 4.5in buried steel gas line for gas lift purposes with working pres-sure of 1200# (approx. 700). These lines will be installed in one ditch going back to the Cactus Jack N-18 CTB 1, following the attached route.

CONFIDENTIAL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

There will also be an overhead elec-tric line installed approximately 15 away from the flowline ditch (approx. 820& up to 12470 volts)

Production Facilities map:

MYSTERIO_19_30_FED_527H_ProductionFacilityMap_20250611083739.pdf

MYSTERIO_19_30_FED_527H_ProductionFacilityMap_20250826105418.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: IRRIGATION

Water source use type: DUST CONTROL

CAMP USE

SURFACE CASING

INTERMEDIATE/PRODUCTION CASING

STIMULATION

Source latitude: 32.44582 **Source longitude:** -103.45101

Source datum: NAD83

City:

Water source permit type: WATER WELL

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: STATE

Water source volume (barrels): 1940 **Source volume (acre-feet):** 0.2500526

Source volume (gal): 81480

Water source and transportation

MYSTERIO_19_30_FED_527H_WaterSourceTransMap_20250611083758.pdf

MYSTERIO_19_30_FED_527H_WaterSourceTransMap_20250826105450.pdf

Water source comments: LAT: 32.737711 LONG: -103.793839

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: SEC 24 18S 32E LAT: 32.738172 LONG: -103.712936

Construction Materials source location

MYSTERIO_19_30_FED_527H_Caliche_SourceTransMap_20250611083810.pdf
MYSTERIO_19_30_FED_527H_Caliche_SourceTransMap_20250826105525.pdf

Section 7 - Methods for Handling

Waste type: GARBAGE

Waste content description: Garbage & Trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Safe containmant attachment:

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

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: 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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

MYSTERIO_19_30_FED_527H_WellSiteLayout_20251023094825.pdf

Comments: NONE

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:**

Multiple Well Pad Number:

Recontouring

MYSTERIO_19_30_FED_527H_InterimReclamationMap_20251023094840.pdf

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance (acres): 5.9	**Well pad interim reclamation (acres):** 1.67	**Well pad long term disturbance (acres):** 4.23
Road proposed disturbance (acres): 0.15	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 0
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 0	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 0	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 6.050000000000001	**Total interim reclamation:** 1.67	**Total long term disturbance:** 4.23

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ration, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To see the area, the proper BLM seed mixture, free of noxious weeks, will be used.

Soil treatment: N/A

Existing Vegetation at the well pad: VARIOUS BRUSH & GRASSES

Existing Vegetation at the well pad

Existing Vegetation Community at the road: VARIOUS BRUSH & GRASSES

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: VARIOUS BRUSH & GRASSES

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: VARIOUS BRUSH & GRASSES

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary	
Seed Type	**Pounds/Acre**

Total pounds/Acre:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Seed reclamation

Operator Contact/Responsible Official

First Name: **Last Name:**

Phone: **Email:**

Seedbed prep: Final seedbed preparation will consist of contour cultivating to the depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed BMP: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Seed method: Drilling or broadcasting seed over entire reclaimed area.

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: N/A

Weed treatment plan

Monitoring plan description: vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeks are controlled.

Monitoring plan

Success standards: regrowth within 1 full growing season of reclamation.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

CONFIDENTIAL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW

SUPO Additional Information: Met w/RRC Surveying & staked location @ 205' FSL & 2400' FWL, Sec 30, T18S, R33E, Lea Co., NM. This location was unacceptable due to lizard habitat by CEHMM, BLM habitat area to the W, pipelines & arch on E side of the section. Re-staked location @ 450' FSL & 1630' FWL, Sec 18, T18S, R33E, Lea Co., NM. (Elev. @ 3828'). Pad is 640 x 400. Utilities & road will be staked to the proposed battery to the E. No topsoil due to surrounding infrastructure & lizard habitat. New road staked off SW corner to reclaimed road & will require fence cut. Reclaim 70' N & W. Shares a pad w/proposed Cactus Jack18/7 wells. BLM onsite, BLM wildlife, arch survey, & final CEHMM approval required. Will require SUA for road use to location. Lat: 32.7414208 N, Long: -103.7059558 W NAD 83. (BPS)

Use a previously conducted onsite? N

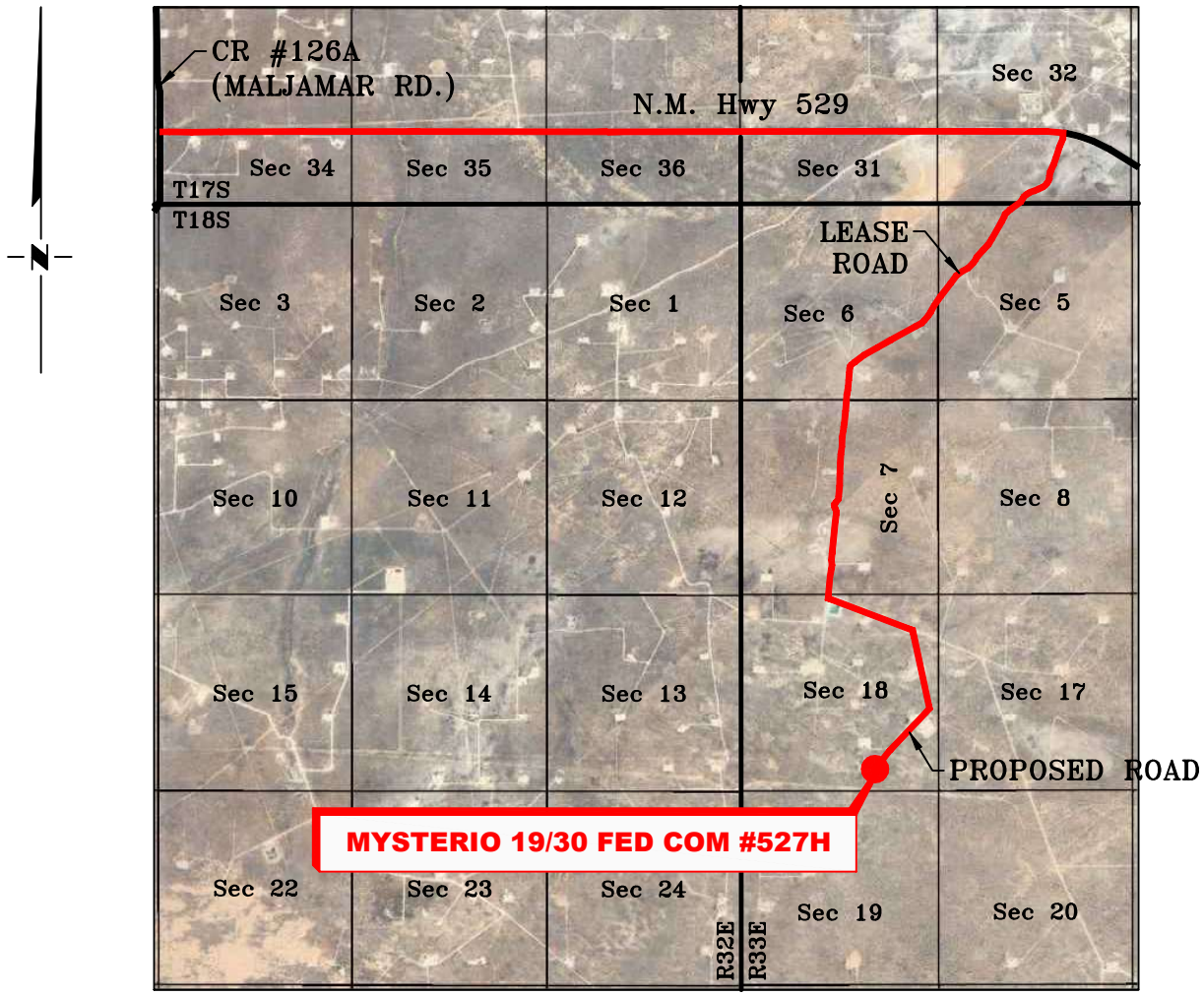
Previous Onsite information:

Other SUPO

CONFIDENTIAL

VICINITY MAP

NOT TO SCALE



SECTION 18, TWP. 18 SOUTH, RGE. 33 EAST,
N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: Mewbourne Oil Company
LEASE: Mysterio 19/30 Fed Com
WELL NO.: 527H

LOCATION: 525' FSL & 1830' FEL
ELEVATION: 3844'

NO.	REVISION	DATE

JOB NO.: LS24100870
DWG. NO.: 24100870-3

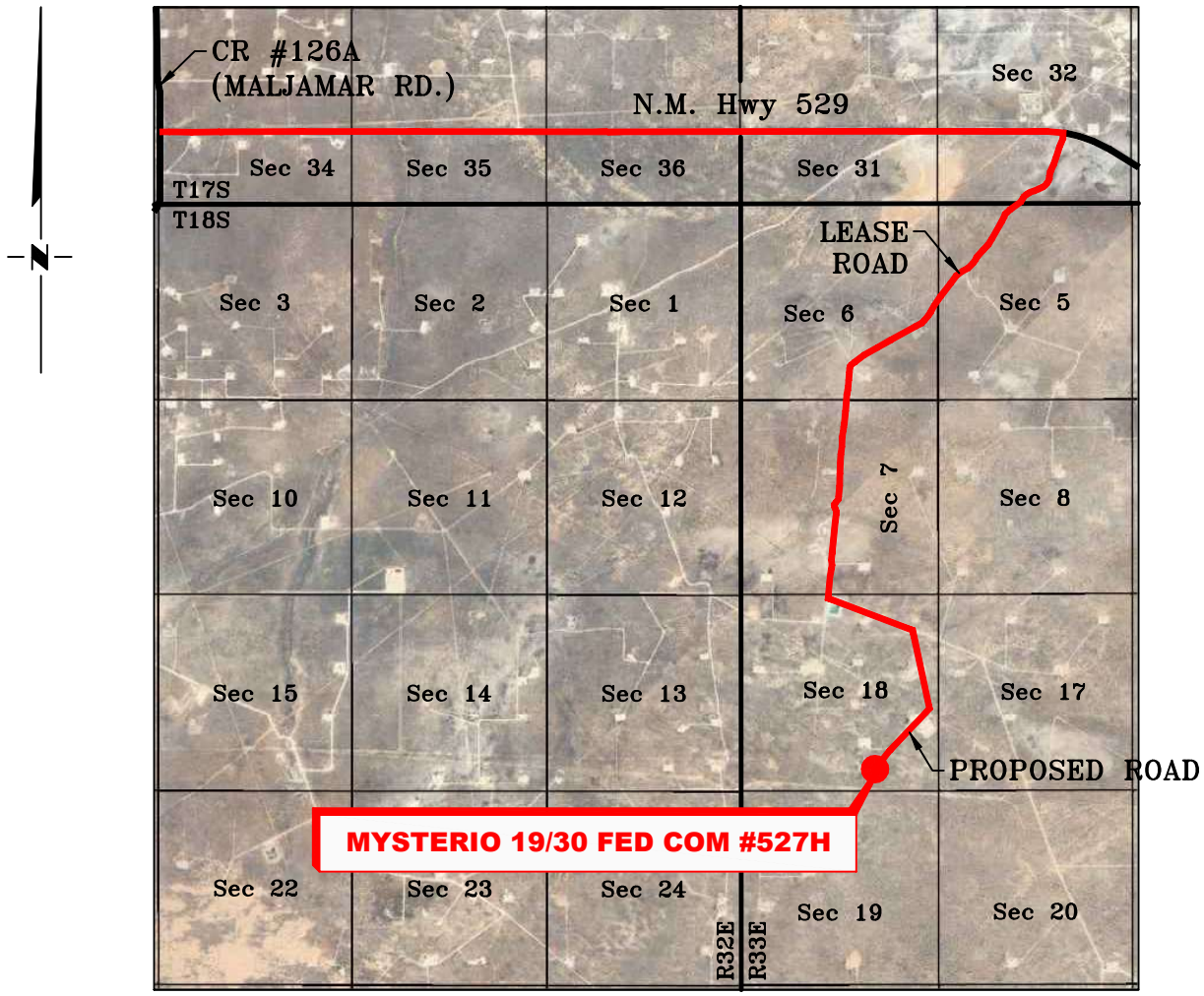
RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 10/22/2024
SURVEYED BY: ML/JH
DRAWN BY: RQ
APPROVED BY: RMH
SHEET: 1 OF 1

Copyright 2016 – All Rights Reserved

VICINITY MAP

NOT TO SCALE



SECTION 18, TWP. 18 SOUTH, RGE. 33 EAST,
N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: Mewbourne Oil Company
LEASE: Mysterio 19/30 Fed Com
WELL NO.: 527H

LOCATION: 525' FSL & 1830' FEL
ELEVATION: 3844'

NO.	REVISION	DATE

JOB NO.: LS24100870
DWG. NO.: 24100870-3

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 10/22/2024
SURVEYED BY: ML/JH
DRAWN BY: RQ
APPROVED BY: RMH
SHEET: 1 OF 1

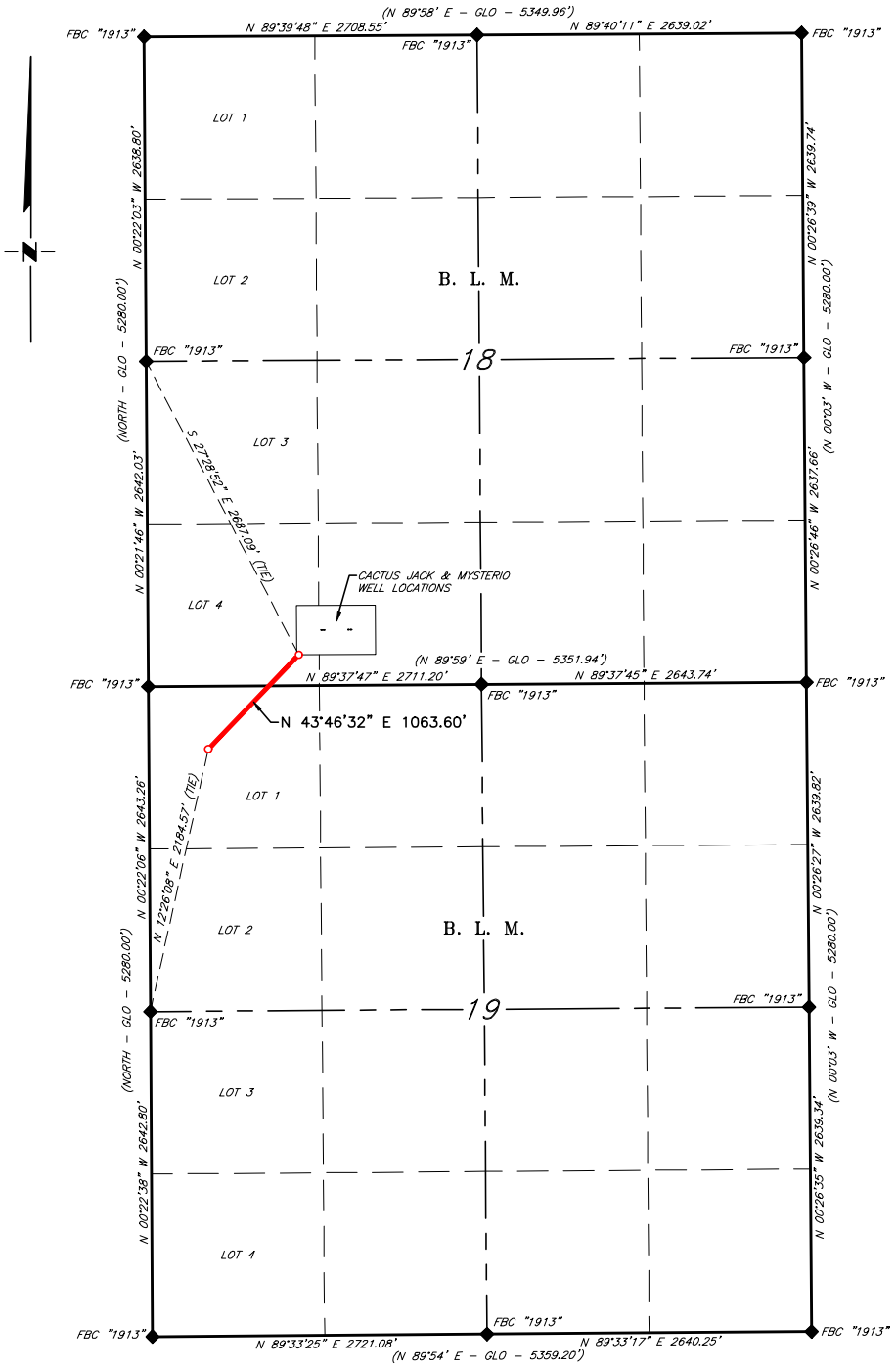
Copyright 2016 – All Rights Reserved

MEWBOURNE OIL COMPANY

ACCESS ROAD FOR THE CACTUS JACK & MYSTERIO WELL LOCATIONS

SECTIONS 18 & 19, T18S, R33E

N. M. P. M., LEA COUNTY, NEW MEXICO



SCALE: 1" = 1200'
0 600' 1200'

BEARINGS ARE GRID NAD 83 NM EAST
DISTANCES ARE HORIZ. GROUND.

ENTIRE LINE TOTALS			
	FEET	RODS	ACRES
TOTAL	1,063.60'	64.461	0.732

LEGEND
( ) RECORD DATA – GLO
◆ FOUND MONUMENT AS NOTED
PROPOSED PIPELINE

NO.	REVISION	DATE

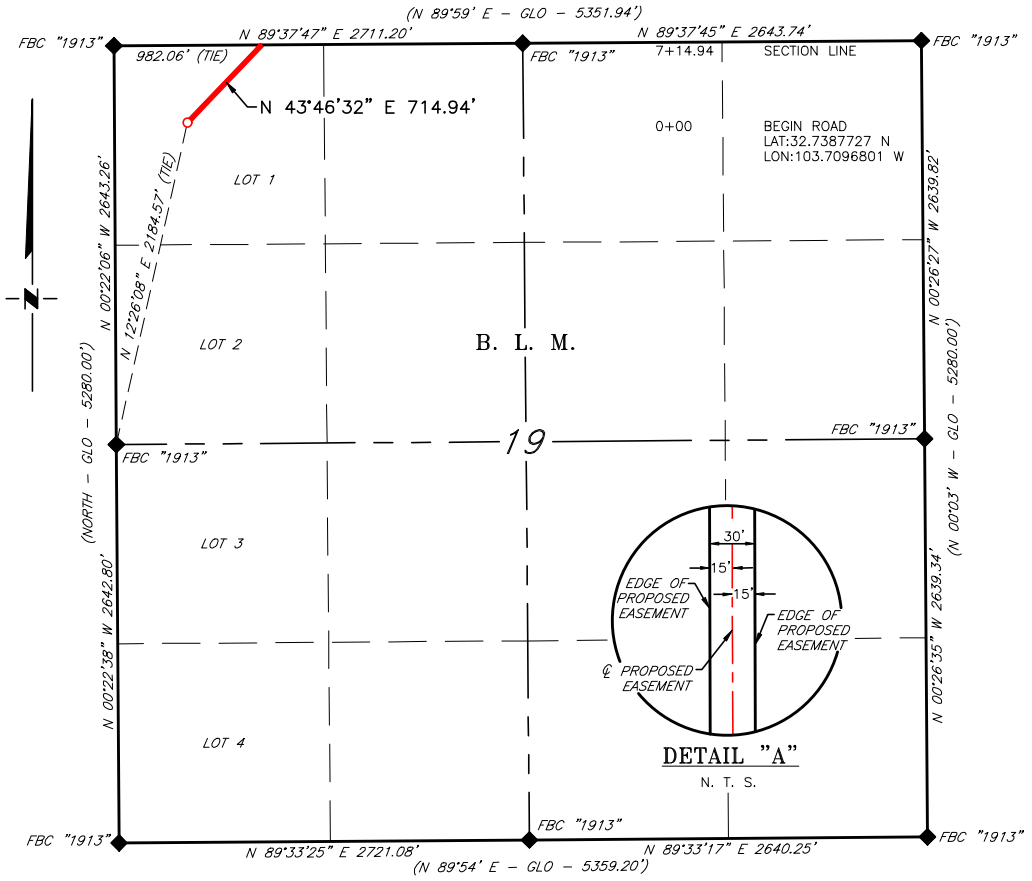
JOB NO.: LS24100863
DWG. NO.: 24100863–5

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964–8200

SCALE: 1" = 1200'
DATE: 10/21/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 3

Copyright 2016 – All Rights Reserved

MEWBOURNE OIL COMPANY
ACCESS ROAD FOR THE CACTUS JACK & MYSTERIO WELL LOCATIONS
SECTION 19, T18S, R33E
N. M. P. M., LEA COUNTY, NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 714.94 feet or 43.330 rods in length, lying in Section 19, Township 18 South, Range 33 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in Lot 1 of Section 19, which bears, N 12°26'08" E, 2,184.57 feet, from a brass cap, stamped "1913", found for the West quarter corner of Section 19;

Thence N 43°46'32" E, 714.94 feet, to Engr. Sta. 7+14.94, a point on the North line of Section 19, which bears, N 89°37'47" E, 982.06 feet, from a brass cap, stamped "1913", found for the Northwest corner of Section 19.

Said strip of land contains 0.492 acres, more or less, and is allocated by forties as follows:

Lot 1	714.94 Feet	43.330 Rods	0.492 Acres

SCALE: 1" = 1000'
0 500' 1000'

BEARINGS ARE GRID NAD 83 NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND
( ) RECORD DATA – GLO
◆ FOUND MONUMENT AS NOTED
PROPOSED ACCESS ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett NM PS 19680

ROBERT M. HOWETT NEW MEXICO 19680 11/06/24 PROFESSIONAL SURVEYOR

NO.	REVISION	DATE

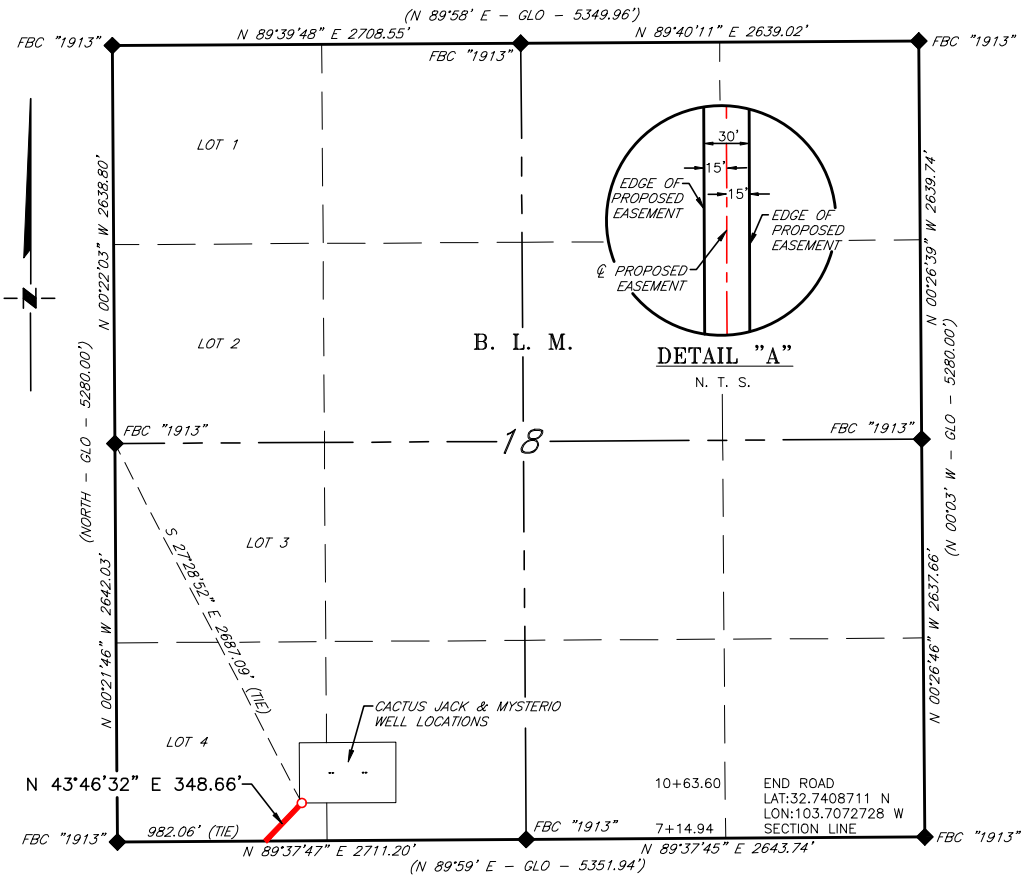
JOB NO.: LS24100863
DWG. NO.: 24100863–6

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964–8200

SCALE: 1" = 1000'
DATE: 10/21/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 2 OF 3

Copyright 2016 – All Rights Reserved

MEWBOURNE OIL COMPANY
ACCESS ROAD FOR THE CACTUS JACK & MYSTERIO WELL LOCATIONS
SECTION 18, T18S, R33E
N. M. P. M., LEA COUNTY, NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 348.66 feet or 21.131 rods in length, lying in Section 18, Township 18 South, Range 33 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 7+14.94, a point on the South line of Section 18, which bears, N 89°37'47" E, 982.06 feet, from a brass cap, stamped "1913", found for the Southwest corner of Section 18;

Thence N 43°46'32" E, 348.66 feet, to Engr. Sta. 10+63.60, a point in Lot 4 of Section 18, which bears, S 27°28'52" E, 2,687.09 feet, from a brass cap, stamped "1913", found for the West quarter corner of Section 18.

Said strip of land contains 0.240 acres, more or less, and is allocated by forties as follows:

Lot 4	348.66 Feet	21.131 Rods	0.240 Acres

SCALE: 1" = 1000'
0 500' 1000'

BEARINGS ARE GRID NAD 83 NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND
( ) RECORD DATA - GLO
◆ FOUND MONUMENT AS NOTED
PROPOSED ACCESS ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680

ROBERT M. HOWETT NEW MEXICO 19680 11/06/24 PROFESSIONAL SURVEYOR

NO.	REVISION	DATE

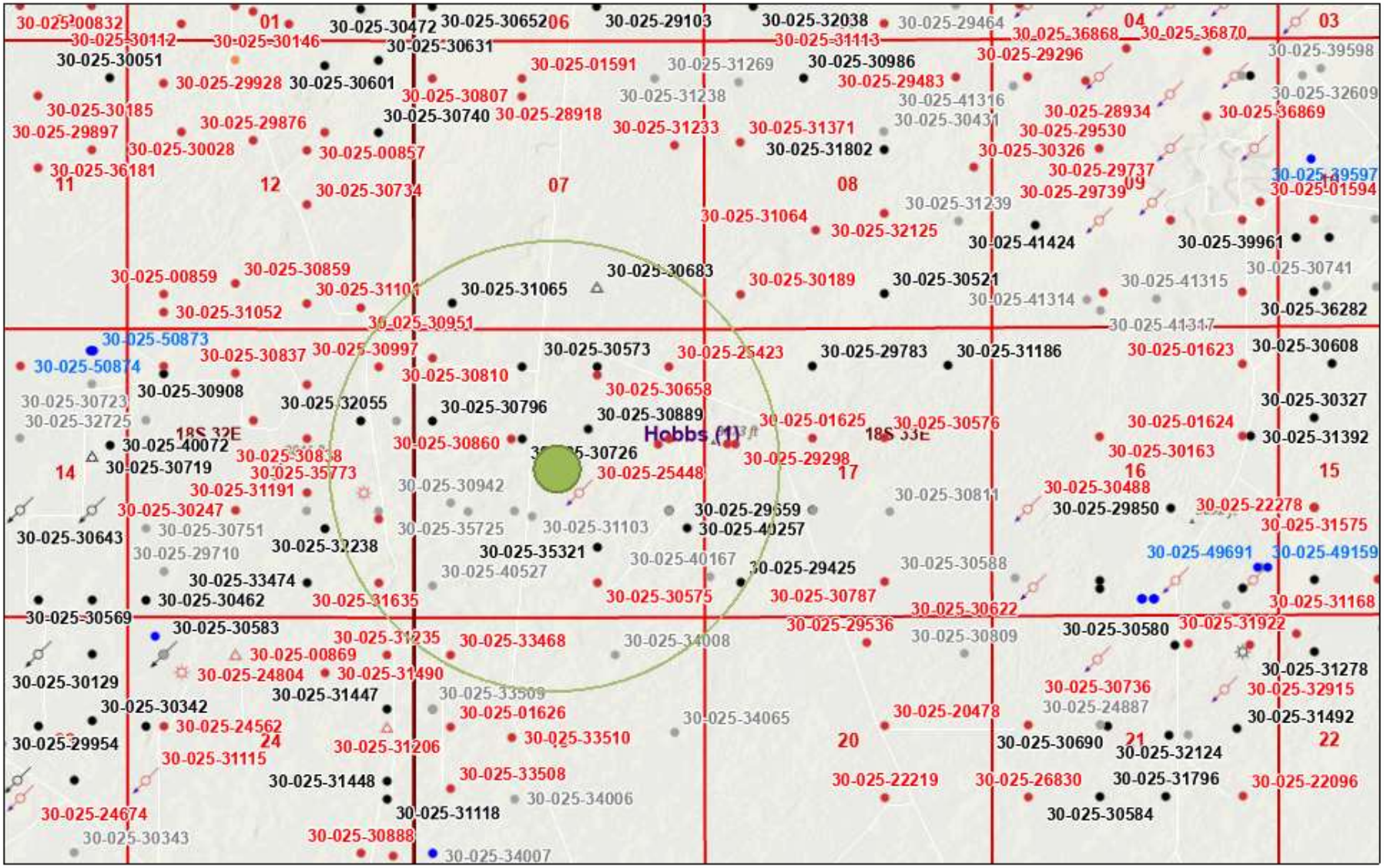
JOB NO.: LS24100863
DWG. NO.: 24100863-7

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

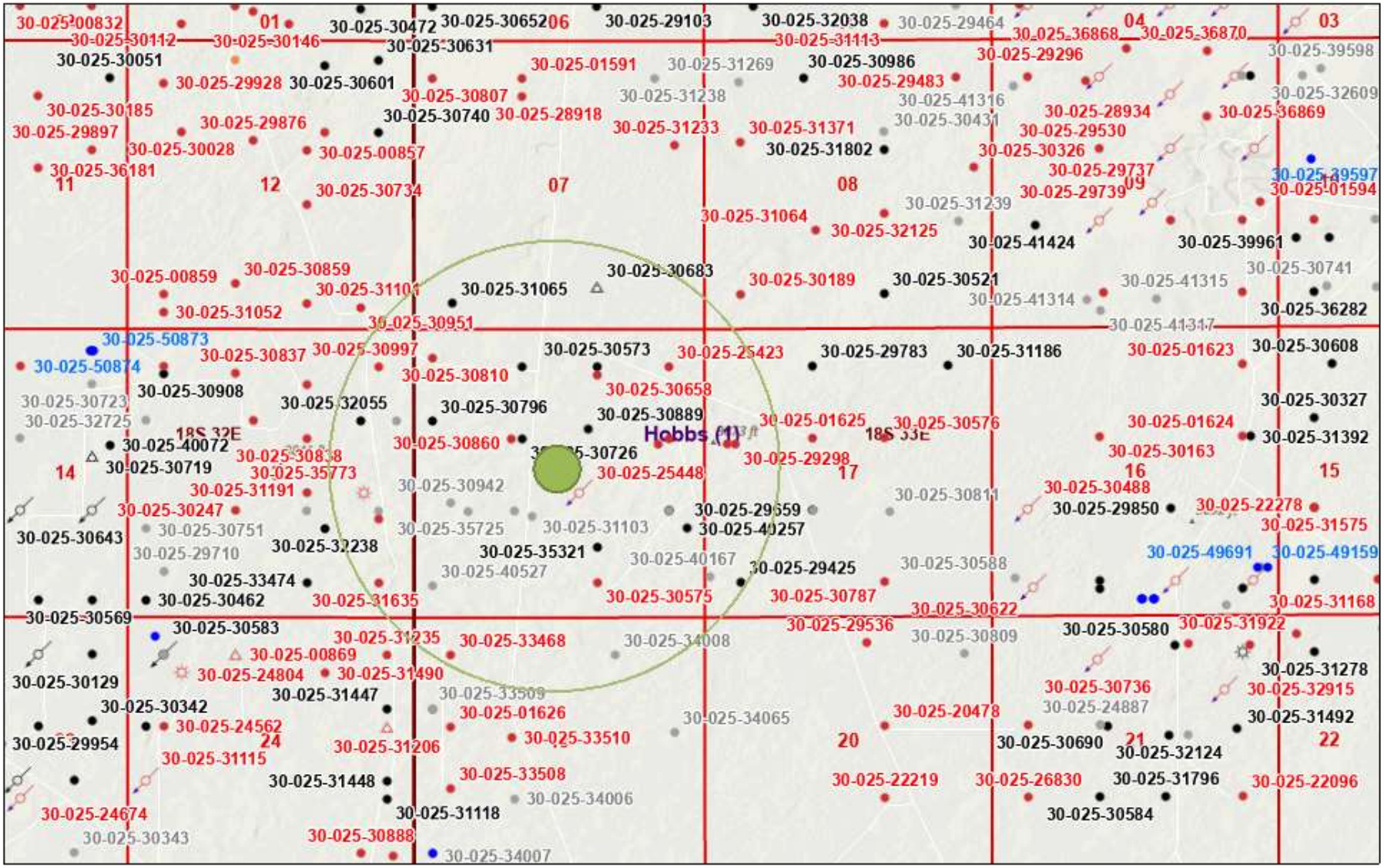
SCALE: 1" = 1000'
DATE: 10/21/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 3 OF 3

Copyright 2016 - All Rights Reserved

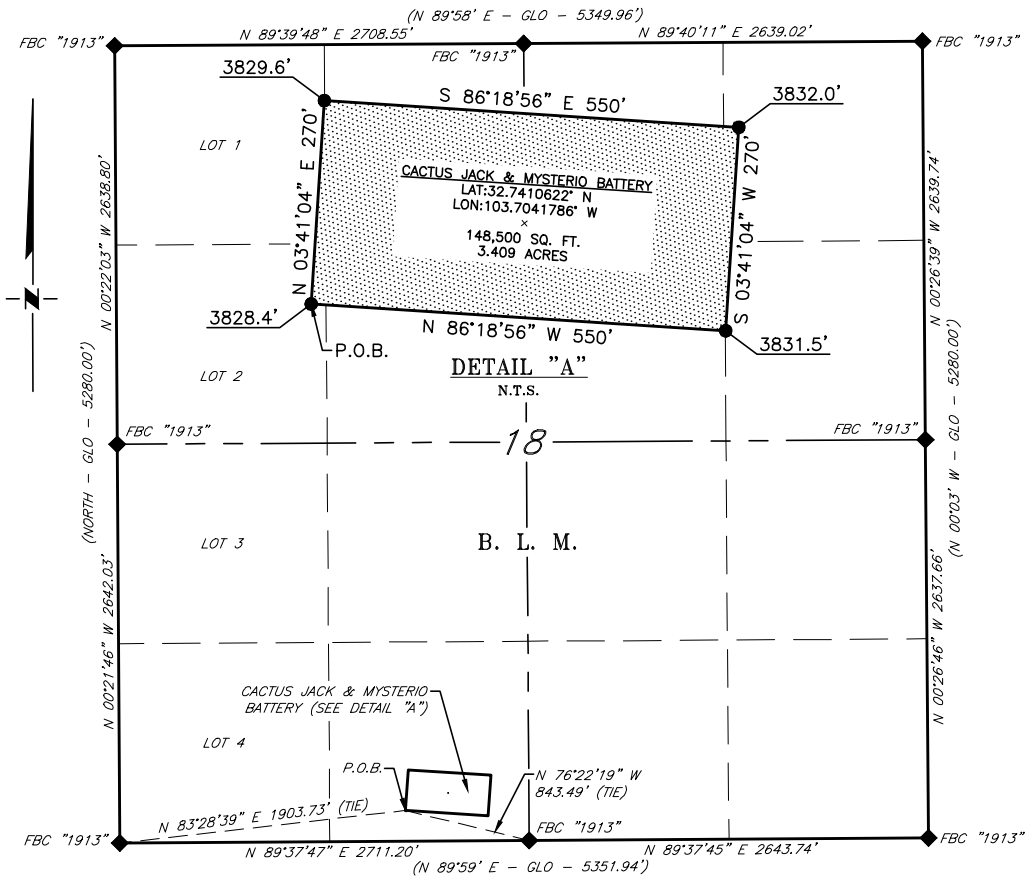
OCD Well Locations



OCD Well Locations



MEWBOURNE OIL COMPANY
CACTUS JACK & MYSTERIO OFFSITE BATTERY
SECTION 18, T18S, R33E
N. M. P. M., LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR #126A (Maljamar Rd.) & N.M. Hwy 529;

Go East on N.M. Hwy 529 approx. 4.7 miles to a lease road on the right;

Turn right and go Southwest approx. 3.0 miles to a lease road on the right;

Turn right and go West approx. 0.6 miles to a lease road on the left;

Turn left and go South approx. 1.1 miles to a lease road on the left;

Turn left and go East approx. 0.2 miles to a proposed road on the left;

Turn left and go Northeast approx. 0.3 miles to a proposed road on the right;

Turn right and go East approx. 340 feet to location.

SCALE: 1" = 1000'
0 500' 1000'

BEARINGS ARE GRID NAD 83 NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND

( ) *RECORD DATA - GLO*

◆ *FOUND MONUMENT AS NOTED*

P.O.B. *POINT OF BEGINNING*

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680

ROBERT M. HOWETT NEW MEXICO 19680 10/31/24 PROFESSIONAL SURVEYOR

NO.	REVISION	DATE

JOB NO.: LS24100877
DWG. NO.: 24100877-1

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 10/24/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 2

Copyright 2016 - All Rights Reserved

MEWBOURNE OIL COMPANY
CACTUS JACK & MYSTERIO OFFSITE BATTERY
SECTION 18, T18S, R33E
N. M. P. M., LEA COUNTY, NEW MEXICO

DESCRIPTION

A tract of land situated within the Southwest quarter of Section 18, Township 18 South, Range 33 East, N. M. P. M. Lea County, New Mexico, across B. L. M. land and being more particularly described by metes and bounds as follows:

BEGINNING at a point in the Southwest quarter of Section 18, which bears, N 83°28'39" E, 1,903.73 feet from a brass cap, stamped "1913", found for the Southwest corner of Section 18 and being N 76°22'19" W, 843.49 feet from a brass cap, stamped "1913", found for the South quarter corner of Section 18;

Thence N 03°41'04" E, 270 feet, to a point;

Thence S 86°18'56" E, 550 feet, to a point;

Thence S 03°41'04" W, 270 feet, to a point;

Thence N 86°18'56" W, 550 feet, to the Point of Beginning.

Said tract of land contains 148,500 square feet or 3.409 acres, more or less and is allocated by forties as follows:

SE 1/4 SW 1/4	148,500.00 Sq. Ft.	3.409 Acres

NO.	REVISION	DATE

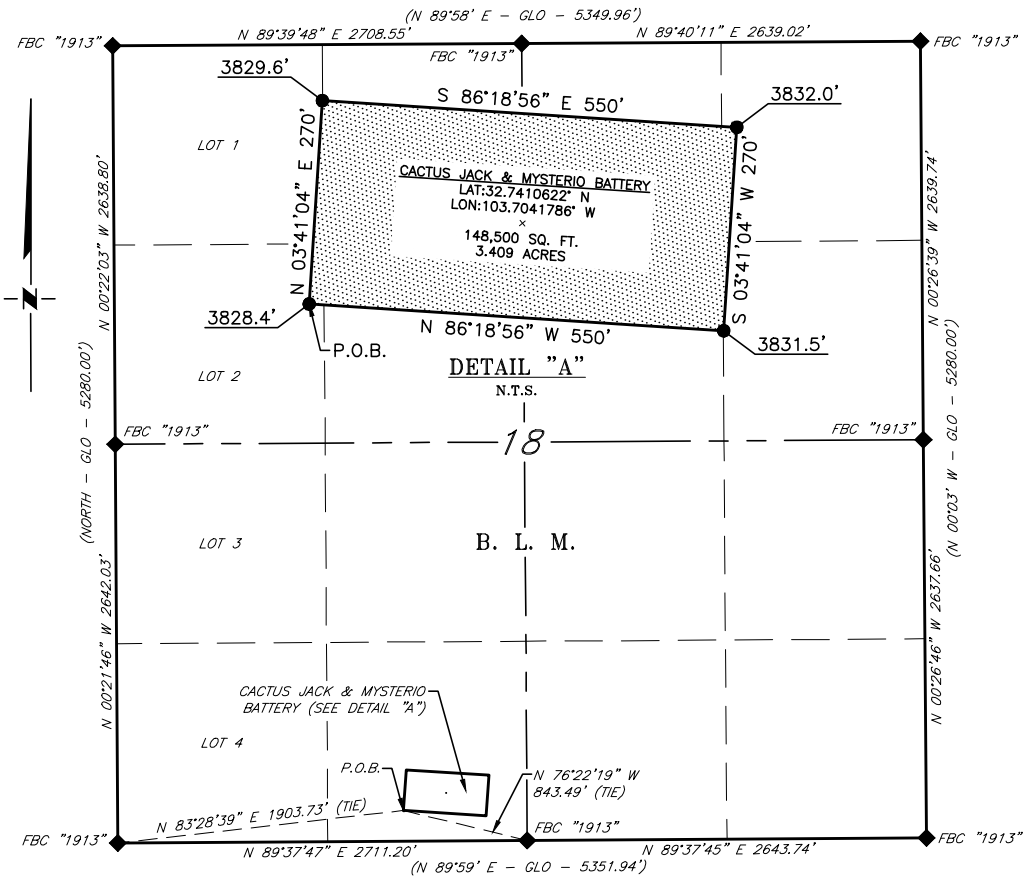
JOB NO.: LS24100877
DWG. NO.: 24100877-2

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 10/24/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 2 OF 2

Copyright 2016 - All Rights Reserved

MEWBOURNE OIL COMPANY
CACTUS JACK & MYSTERIO OFFSITE BATTERY
SECTION 18, T18S, R33E
N. M. P. M., LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR #126A (Maljamar Rd.) & N.M. Hwy 529;

Go East on N.M. Hwy 529 approx. 4.7 miles to a lease road on the right;

Turn right and go Southwest approx. 3.0 miles to a lease road on the right;

Turn right and go West approx. 0.6 miles to a lease road on the left;

Turn left and go South approx. 1.1 miles to a lease road on the left;

Turn left and go East approx. 0.2 miles to a proposed road on the left;

Turn left and go Northeast approx. 0.3 miles to a proposed road on the right;

Turn right and go East approx. 340 feet to location.

SCALE: 1" = 1000'
0 500' 1000'

BEARINGS ARE GRID NAD 83 NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND

( ) *RECORD DATA - GLO*

◆ *FOUND MONUMENT AS NOTED*

P.O.B. *POINT OF BEGINNING*

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680

ROBERT M. HOWETT NEW MEXICO 19680 10/31/24 PROFESSIONAL SURVEYOR

NO.	REVISION	DATE

JOB NO.: LS24100877
DWG. NO.: 24100877-1

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 10/24/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 2

Copyright 2016 - All Rights Reserved

MEWBOURNE OIL COMPANY
CACTUS JACK & MYSTERIO OFFSITE BATTERY
SECTION 18, T18S, R33E
N. M. P. M., LEA COUNTY, NEW MEXICO

DESCRIPTION

A tract of land situated within the Southwest quarter of Section 18, Township 18 South, Range 33 East, N. M. P. M. Lea County, New Mexico, across B. L. M. land and being more particularly described by metes and bounds as follows:

BEGINNING at a point in the Southwest quarter of Section 18, which bears, N 83°28'39" E, 1,903.73 feet from a brass cap, stamped "1913", found for the Southwest corner of Section 18 and being N 76°22'19" W, 843.49 feet from a brass cap, stamped "1913", found for the South quarter corner of Section 18;

Thence N 03°41'04" E, 270 feet, to a point;

Thence S 86°18'56" E, 550 feet, to a point;

Thence S 03°41'04" W, 270 feet, to a point;

Thence N 86°18'56" W, 550 feet, to the Point of Beginning.

Said tract of land contains 148,500 square feet or 3.409 acres, more or less and is allocated by forties as follows:

SE 1/4 SW 1/4	148,500.00 Sq. Ft.	3.409 Acres

NO.	REVISION	DATE

JOB NO.: LS24100877

DWG. NO.: 24100877-2

RRC ENERGY SERVICES, LLC.

701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'

DATE: 10/24/2024

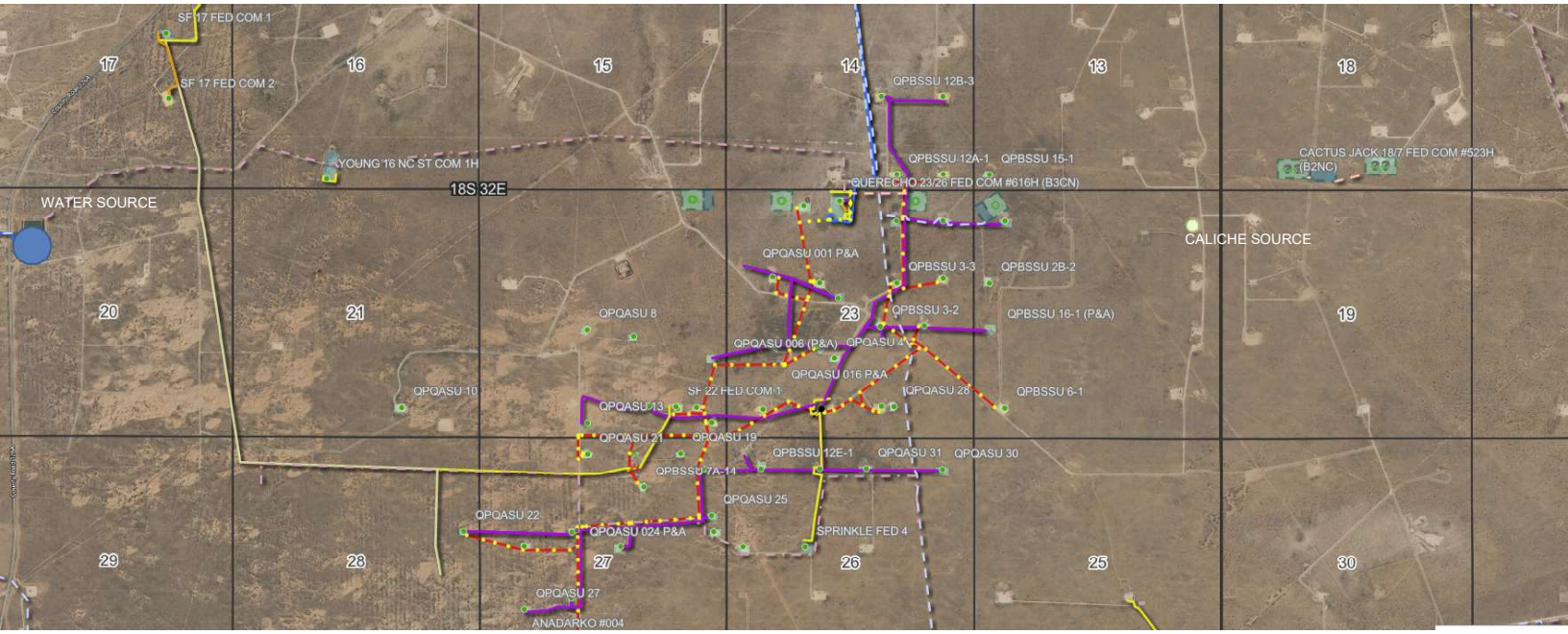
SURVEYED BY: ML/JH

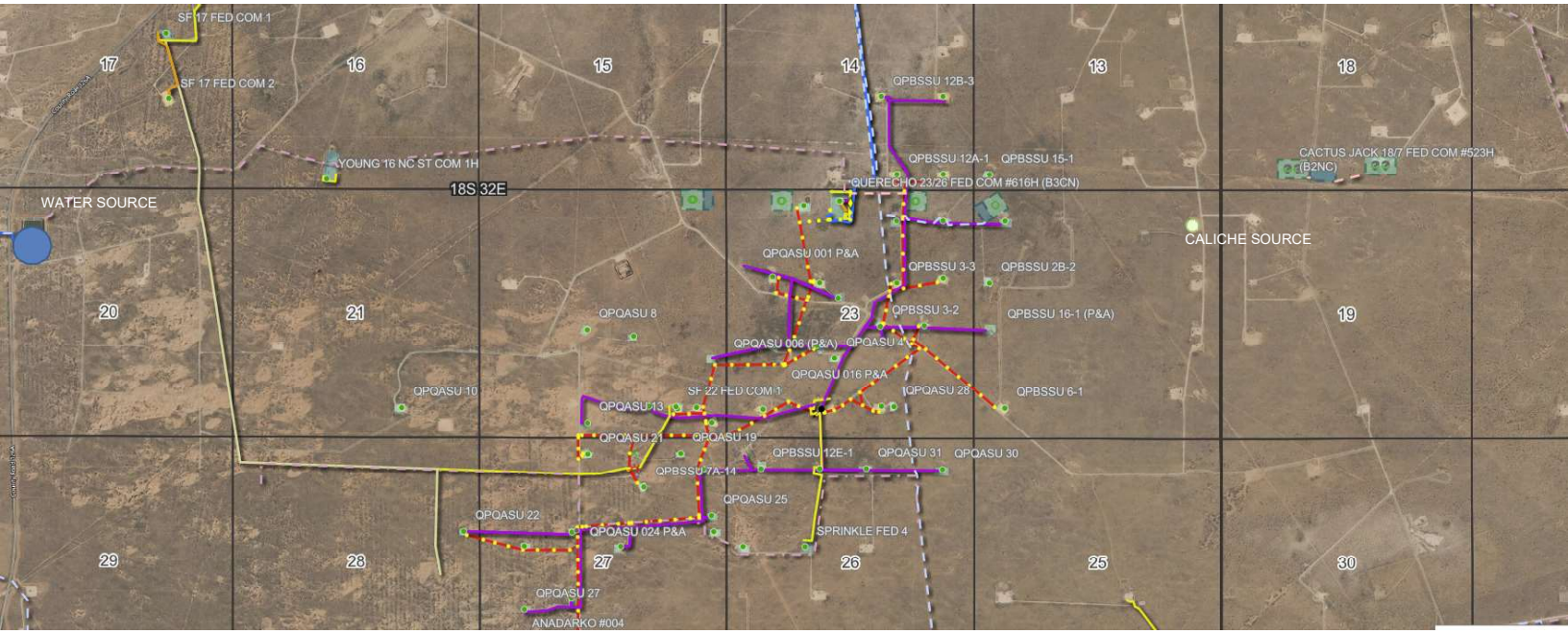
DRAWN BY: AR

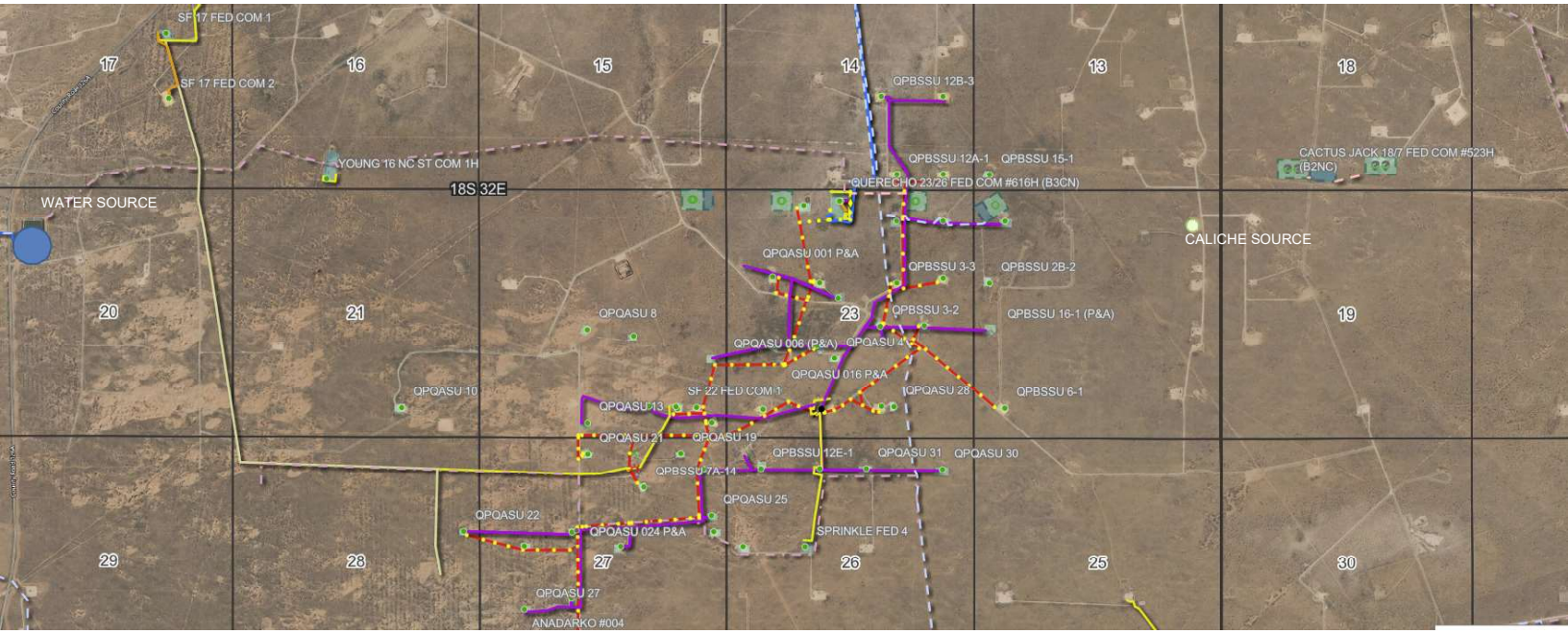
APPROVED BY: RMH

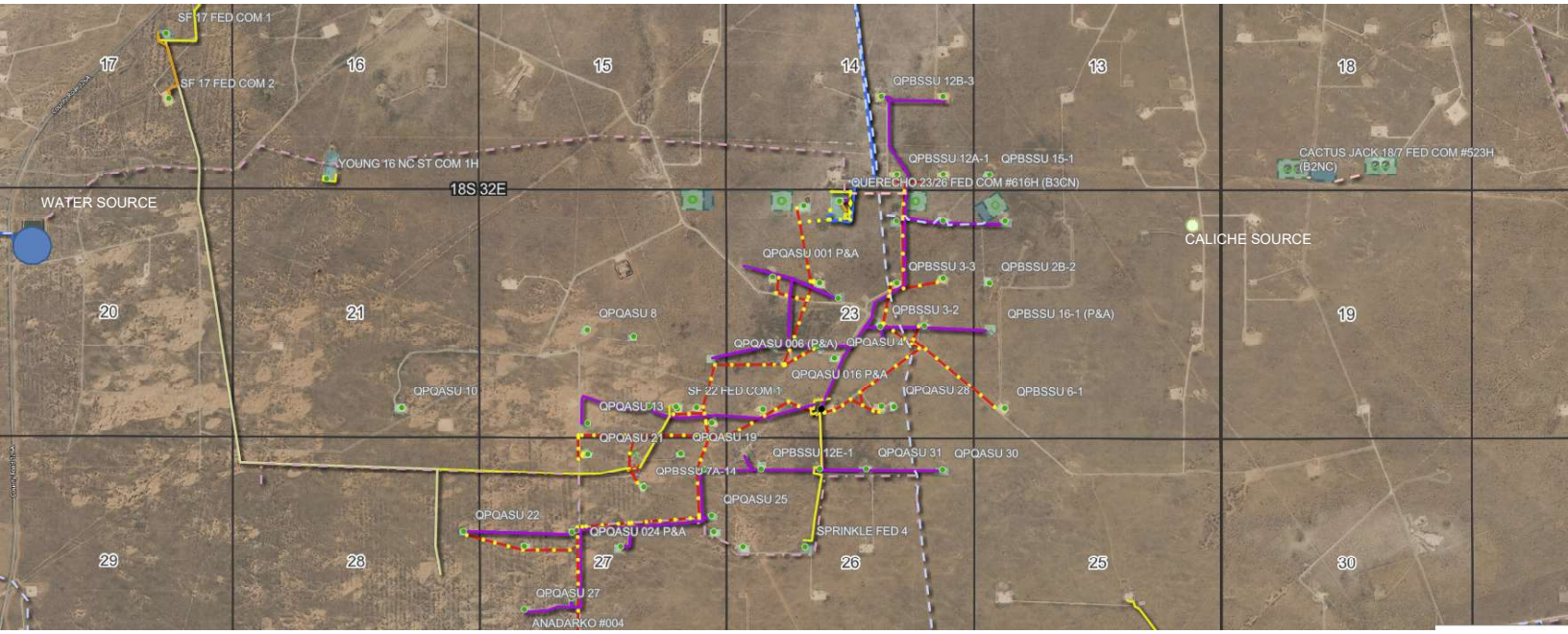
SHEET: 2 OF 2

Copyright 2016 - All Rights Reserved

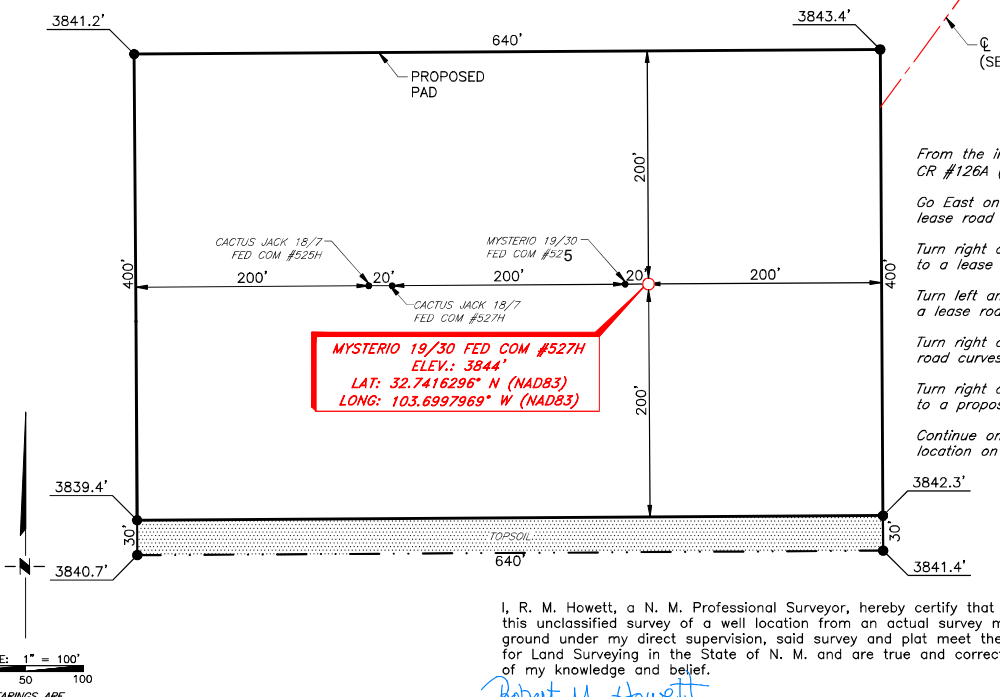

SF 17 FED COM 1
SF 17 FED COM 2
YOUNG 16 NC ST COM 1H
18S 32E
WATER SOURCE
QPBSSU 12B-3
QPBSSU 12A-1
QPBSSU 15-1
QUERECHO 23/26 FED COM #616H (B3CN)
CACTUS JACK 18/7 FED COM #523H (B2NC)
CALICHE SOURCE
QPQASU 001 P&A
QPBSSU 3-3
QPBSSU 2B-2
QPQASU 8
QPBSSU 3-2
QPBSSU 16-1 (P&A)
QPQASU 006 (P&A)
QPQASU 4
QPQASU 016 P&A
QPQASU 10
SF 22 FED COM 1
QPQASU 28
QPBSSU 6-1
QPQASU 13
QPQASU 21
QPQASU 19
QPBSSU 12E-1
QPQASU 31
QPQASU 30
QPBSSU 7A-14
QPQASU 25
QPQASU 22
QPQASU 024 P&A
SPRINKLE FED 4
QPQASU 27
ANADARKO #004
17
16
15
14
13
18
20
21
23
19
29
28
27
26
25
30


SF 17 FED COM 1
SF 17 FED COM 2
YOUNG 16 NC ST COM 1H
18S 32E
WATER SOURCE
QPBSSU 12B-3
QPBSSU 12A-1
QPBSSU 15-1
QUERECHO 23/26 FED COM #616H (B3CN)
CACTUS JACK 18/7 FED COM #523H (B2NC)
CALICHE SOURCE
QPQASU 001 P&A
QPBSSU 3-3
QPBSSU 2B-2
QPQASU 8
QPBSSU 3-2
QPBSSU 16-1 (P&A)
QPQASU 006 (P&A)
QPQASU 4
QPQASU 016 P&A
QPQASU 10
SF 22 FED COM 1
QPQASU 28
QPBSSU 6-1
QPQASU 13
QPQASU 21
QPQASU 19
QPBSSU 12E-1
QPQASU 31
QPQASU 30
QPBSSU 7A-14
QPQASU 25
QPQASU 22
QPQASU 024 P&A
SPRINKLE FED 4
QPQASU 27
ANADARKO #004
17
16
15
14
13
18
20
21
23
19
29
28
27
26
25
30


SF 17 FED COM 1
SF 17 FED COM 2
YOUNG 16 NC ST COM 1H
18S 32E
WATER SOURCE
QPBSSU 12B-3
QPBSSU 12A-1
QPBSSU 15-1
QUERECHO 23/26 FED COM #616H (B3CN)
CACTUS JACK 18/7 FED COM #523H (B2NC)
CALICHE SOURCE
QPQASU 001 P&A
QPBSSU 3-3
QPBSSU 2B-2
QPQASU 8
QPBSSU 3-2
QPBSSU 16-1 (P&A)
QPQASU 006 (P&A)
QPQASU 4
QPQASU 016 P&A
QPQASU 10
SF 22 FED COM 1
QPQASU 28
QPBSSU 6-1
QPQASU 13
QPQASU 21
QPQASU 19
QPBSSU 12E-1
QPQASU 31
QPQASU 30
QPBSSU 7A-14
QPQASU 25
QPQASU 22
QPQASU 024 P&A
SPRINKLE FED 4
QPQASU 27
ANADARKO #004
17
16
15
14
13
18
20
21
23
19
29
28
27
26
25
30


SF 17 FED COM 1
SF 17 FED COM 2
YOUNG 16 NC ST COM 1H
18S 32E
WATER SOURCE
QPBSSU 12B-3
QPBSSU 12A-1
QPBSSU 15-1
QUERECHO 23/26 FED COM #616H (B3CN)
CACTUS JACK 18/7 FED COM #523H (B2NC)
CALICHE SOURCE
QPQASU 001 P&A
QPBSSU 3-3
QPBSSU 2B-2
QPQASU 8
QPBSSU 3-2
QPBSSU 16-1 (P&A)
QPQASU 006 (P&A)
QPQASU 4
QPQASU 016 P&A
QPQASU 10
SF 22 FED COM 1
QPQASU 28
QPBSSU 6-1
QPQASU 13
QPQASU 21
QPQASU 19
QPBSSU 12E-1
QPQASU 31
QPQASU 30
QPBSSU 7A-14
QPQASU 25
QPQASU 22
QPQASU 024 P&A
SPRINKLE FED 4
QPQASU 27
ANADARKO #004
17
16
15
14
13
18
20
21
23
19
29
28
27
26
25
30

MEWBOURNE OIL COMPANY
MYSTERIO 19/30 FED COM #527H
(525' FSL & 1830' FEL)
SECTION 18, T18S, R33E
N. M. P. M., LEA CO., NEW MEXICO



SCALE: 1" = 100'
0 50 100

BEARINGS ARE NAD 83 GRID – NM EAST
DISTANCES ARE GROUND.

DIRECTIONS TO LOCATION

From the intersection of N.M. Hwy 529 & CR #126A (Maljamar Rd.);

Go East on N.M. Hwy 529 approx. 4.7 miles to lease road on right;

Turn right and go Southwest approx. 3.0 miles to a lease road on left;

Turn left and go Southeast approx. 0.5 miles to a lease road right;

Turn right and go Southeast approx. 0.4 miles road curves right;

Turn right and go Southwest approx. 0.3 miles to a proposed road;

Continue on proposed road approx. 0.2 miles to location on the left.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett NM PS 19680

ROBERT M. HOWETT NEW MEXICO 19680 10/29/24 PROFESSIONAL SURVEYOR

SCALE: 1" = 100'
DATE: 10/22/2024
SURVEYED BY: ML/JH
DRAWN BY: RQ
APPROVED BY: RMH
SHEET: 1 OF 1

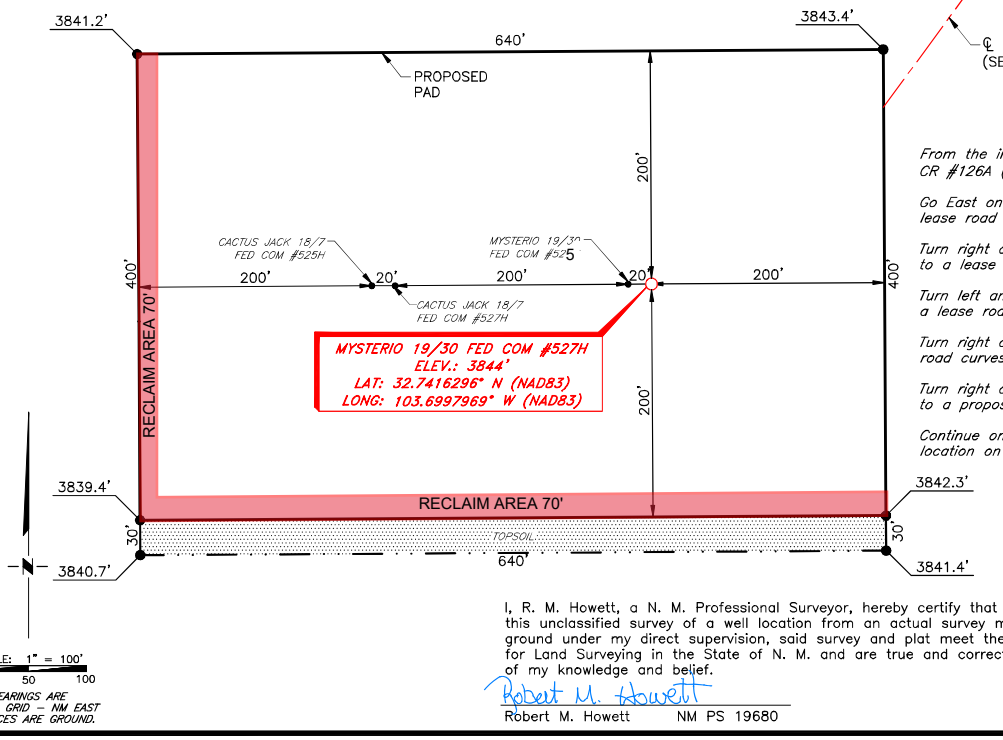
RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

NO.	REVISION	DATE

JOB NO.: LS24100870
DWG. NO.: 24100870-4

Copyright 2016 – All Rights Reserved

MEWBOURNE OIL COMPANY
MYSTERIO 19/30 FED COM #527H
(525' FSL & 1830' FEL)
SECTION 18, T18S, R33E
N. M. P. M., LEA CO., NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of N.M. Hwy 529 & CR #126A (Maljamar Rd.);

Go East on N.M. Hwy 529 approx. 4.7 miles to lease road on right;

Turn right and go Southwest approx. 3.0 miles to a lease road on left;

Turn left and go Southeast approx. 0.5 miles to a lease road right;

Turn right and go Southeast approx. 0.4 miles road curves right;

Turn right and go Southwest approx. 0.3 miles to a proposed road;

Continue on proposed road approx. 0.2 miles to location on the left.

SCALE: 1" = 100'
0 50 100

BEARINGS ARE NAD 83 GRID – NM EAST DISTANCES ARE GROUND.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett NM PS 19680

ROBERT M. HOWETT NEW MEXICO 19680 10/29/24 PROFESSIONAL SURVEYOR

SCALE: 1" = 100'
DATE: 10/22/2024
SURVEYED BY: ML/JH
DRAWN BY: RQ
APPROVED BY: RMH
SHEET: 1 OF 1

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

NO.	REVISION	DATE

JOB NO.: LS24100870
DWG. NO.: 24100870-4

Copyright 2016 – All Rights Reserved

AFMSS

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

PWD Data Report

12/12/2025

APD ID: 10400105423 **Submission Date:** 09/03/2025

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: MYSTERIO 19/30 FED **Well Number:** 527H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

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

Bond Info Data
12/12/2025

APD ID: 10400105423
Submission Date: 09/03/2025
Operator Name: MEWBOURNE OIL COMPANY
Well Name: MYSTERIO 19/30 FED
Well Number: 527H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: NMB106714150

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Well Name: MYSTERIO 19/30 FED COM

Well Location: T18S / R33E / SEC 18 / SESW / 32.7416296 / -103.6997969

County or Parish/State: LEA / NM

Well Number: 527H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC069420

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: MEWBOURNE OIL COMPANY

Notice of Intent

Sundry ID: 2906393

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/15/2026

Time Sundry Submitted: 01:29

Date proposed operation will begin: 04/15/2026

Procedure Description: Mewbourne Oil Company request that the following change be made to the MYSTERIO 19/30 FED COM #527H (APD #10400105423): 1. Change SHL f/ 525'FSL & 1830' FEL (Sec 18) to 450' FSL & 1430' FWL (Sec 18). There will not be a new surface disturbance with this move as we are utilizing a previously approved surface. Attached is updated C102, Drilling Program, Directional Plan & Directional Plot, reflecting SHL change.

NOI Attachments

Procedure Description

MYSTERIO_19_30_FED_COM__527H___Dir_plan_20260415132851.pdf

MYSTERIO_19_30_FED_COM__527H_c102_1_20260415132850.pdf

Mysterio_19_30_Fed_Com_527H_Drlg_Program_20260415132850.pdf

MYSTERIO_19_30_FED_COM__527H___Dir_Plot_20260415132850.pdf

Released to Imaging: 4/22/2026 4:02:43 PM

Well Name: MYSTERIO 19/30 FED COM

Well Location: T18S / R33E / SEC 18 / SESW / 32.7416296 / -103.6997969

County or Parish/State: LEA / NM

Well Number: 527H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC069420

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: MEWBOURNE OIL COMPANY

Conditions of Approval

Additional

MYSTERIO_19_30_FED_COM_527H_Sundry_2906393_COA_20260420103845.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: ERIK NOGUEZ

Signed on: APR 15, 2026 01:28 PM

Name: MEWBOURNE OIL COMPANY

Title: Engineer

Street Address: 4801 BUSINESS PARK BLVD

City: HOBBS **State:** NM

Phone: (806) 202-0207

Email address: ENOGUEZ@MEWBOURNE.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 04/20/2026

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.
30-025-56143

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area
CORBIN;BONE SPRING, SOUTH

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SESW / 525 FSL / 1830 FEL / TWSP: 18S / RANGE: 33E / SECTION: 18 / LAT: 32.7416296 / LONG: -103.6997969 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 500 FEL / TWSP: 18S / RANGE: 33E / SECTION: 19 / LAT: 32.7399138 / LONG: -103.6954688 (TVD: 9548 feet, MD: 9997 feet)

PPP: SENE / 1220 FNL / 500 FEL / TWSP: 18S / RANGE: 33E / SECTION: 19 / LAT: 32.7365611 / LONG: -103.6954625 (TVD: 9572 feet, MD: 11217 feet)

BHL: SESE / 100 FSL / 500 FEL / TWSP: 18S / RANGE: 33E / SECTION: 30 / LAT: 32.7114441 / LONG: -103.6954154 (TVD: 9754 feet, MD: 20357 feet)

CONFIDENTIAL

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	MYSTERIO 19/30 FED COM 527H
APD ID:	10400105423
LOCATION:	Section 18, T.18 S., R.33 E. NMP.
COUNTY:	Lea County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose ☐ Four-String	☐ Casing Clearance ☑ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☑ Break Testing

SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

A. CASING DESIGN

Note: The surface casing set depth was adjusted in accordance with the BLM geologist's recommendation. *"The operator proposes to set surface casing at 1450 ft. will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 1540 ft. If salt is encountered, set casing at least 25 ft. above the salt."*

1. The **13-3/8** inch surface casing shall be set at approximately **1,540 ft.** (a minimum of 70 feet 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 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **9-5/8** inch intermediate casing shall be set in a competent bed (Tansill/Yates) at approximately **3,000 ft.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

   - **Cement to surface.** If cement does not circulate see B.1.a, c-d above.

   Note: Excess cement is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

3. Operator has proposed to set **7 inch** production casing at approximately **9,814 ft. (KOP in Design A)** or **10,714 ft. (Landing point in Design B).** The minimum required fill of cement behind the **7 inch** production casing is:
   - Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**.

4. 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.

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 Lea County Inspection Staff:
Email blm_nm_cfo_drillingnotifications@blm.gov; The inspector on call phone, **575-361-2822**, will remain active as a secondary contact for notifications; calls only, text messages are not accepted at this number.

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 & CEMENTING

1. The current acceptable methods of cement verification are as follows:
   i. Observing cement circulated to surface,
   ii. Cement Bond Log (CBL),
   iii. Temperature log within 8-10 hours after completing the cement job,
   iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)

2. 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.

3. 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.
4. 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.
5. 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.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. 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.
9. 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 04/20/2026

Mewbourne Oil Company

Lea County, New Mexico NAD 83
Mysterio 19/30 Fed Com #527H
Sec 18, T18S, R33E
SHL: 450' FSL & 1430' FWL (Sec 18)
BHL: 100' FSL & 500' FEL (Sec 30)

Plan: Design #1

Standard Planning Report

15 April, 2026

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
Design:	Design #1		

Project Lea County, New Mexico NAD 83

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Mysterio 19/30 Fed Com #527H

Site Position:		**Northing:**	634,030.50 usft	**Latitude:**	32.7414205
From:	Map	**Easting:**	734,037.50 usft	**Longitude:**	-103.7066061
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 18, T18S, R33E

Well Position	**+N/-S**	0.0 usft	**Northing:**	634,030.50 usft	**Latitude:**	32.7414205
	+E/-W	0.0 usft	**Easting:**	734,037.50 usft	**Longitude:**	-103.7066061
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,855.0 usft	**Ground Level:**	3,827.0 usft
Grid Convergence:		0.34 °				

Wellbore BHL: 100' FSL & 500' FEL (Sec 30)

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.25	60.55	48,554.93435340

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	162.14

Plan Survey Tool Program **Date** 4/15/2026

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,074.0	Design #1 (BHL: 100' FSL & 500'		

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	
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,934.0	29.68	89.25	2,868.6	5.0	375.8	2.00	2.00	0.00	89.25	
8,329.9	29.68	89.25	7,556.4	40.1	3,047.5	0.00	0.00	0.00	0.00	
9,813.9	0.00	0.00	8,975.0	45.1	3,423.3	2.00	-2.00	0.00	180.00	KOP : 473' FSL & 500
10,702.8	88.86	179.56	9,548.0	-516.6	3,427.6	10.00	10.00	0.00	179.56	
21,074.0	88.86	179.56	9,754.0	-10,885.5	3,506.5	0.00	0.00	0.00	0.00	BHL : 100' FSL & 500

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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 : 450' FSL & 1430' FWL (Sec 18)									
50.0	0.00	0.00	50.0	0.0	0.0	0.0	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
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	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
600.0	0.00	0.00	600.0	0.0	0.0	0.0	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
700.0	0.00	0.00	700.0	0.0	0.0	0.0	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
800.0	0.00	0.00	800.0	0.0	0.0	0.0	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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	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
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	1.00	89.25	1,500.0	0.0	0.4	0.1	2.00	2.00	0.00
1,550.0	2.00	89.25	1,550.0	0.0	1.7	0.5	2.00	2.00	0.00
1,600.0	3.00	89.25	1,599.9	0.1	3.9	1.2	2.00	2.00	0.00
1,650.0	4.00	89.25	1,649.8	0.1	7.0	2.1	2.00	2.00	0.00
1,700.0	5.00	89.25	1,699.7	0.1	10.9	3.2	2.00	2.00	0.00
1,750.0	6.00	89.25	1,749.5	0.2	15.7	4.6	2.00	2.00	0.00
1,800.0	7.00	89.25	1,799.1	0.3	21.4	6.3	2.00	2.00	0.00
1,850.0	8.00	89.25	1,848.7	0.4	27.9	8.2	2.00	2.00	0.00
1,900.0	9.00	89.25	1,898.2	0.5	35.3	10.4	2.00	2.00	0.00
1,950.0	10.00	89.25	1,947.5	0.6	43.5	12.8	2.00	2.00	0.00
2,000.0	11.00	89.25	1,996.6	0.7	52.6	15.5	2.00	2.00	0.00
2,050.0	12.00	89.25	2,045.6	0.8	62.6	18.4	2.00	2.00	0.00
2,100.0	13.00	89.25	2,094.4	1.0	73.4	21.6	2.00	2.00	0.00
2,150.0	14.00	89.25	2,143.1	1.1	85.1	25.0	2.00	2.00	0.00
2,200.0	15.00	89.25	2,191.5	1.3	97.6	28.7	2.00	2.00	0.00
2,250.0	16.00	89.25	2,239.6	1.5	111.0	32.6	2.00	2.00	0.00
2,300.0	17.00	89.25	2,287.6	1.6	125.2	36.8	2.00	2.00	0.00
2,350.0	18.00	89.25	2,335.3	1.8	140.2	41.2	2.00	2.00	0.00
2,400.0	19.00	89.25	2,382.7	2.1	156.1	45.9	2.00	2.00	0.00
2,450.0	20.00	89.25	2,429.8	2.3	172.8	50.8	2.00	2.00	0.00
2,500.0	21.00	89.25	2,476.6	2.5	190.3	56.0	2.00	2.00	0.00
2,550.0	22.00	89.25	2,523.2	2.7	208.6	61.3	2.00	2.00	0.00
2,600.0	23.00	89.25	2,569.4	3.0	227.7	67.0	2.00	2.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
2,650.0	24.00	89.25	2,615.2	3.3	247.7	72.8	2.00	2.00	0.00
2,700.0	25.00	89.25	2,660.7	3.5	268.4	78.9	2.00	2.00	0.00
2,750.0	26.00	89.25	2,705.8	3.8	289.9	85.3	2.00	2.00	0.00
2,800.0	27.00	89.25	2,750.6	4.1	312.2	91.8	2.00	2.00	0.00
2,850.0	28.00	89.25	2,794.9	4.4	335.3	98.6	2.00	2.00	0.00
2,900.0	29.00	89.25	2,838.9	4.7	359.2	105.6	2.00	2.00	0.00
2,934.0	29.68	89.25	2,868.6	5.0	375.8	110.5	2.00	2.00	0.00
2,950.0	29.68	89.25	2,882.4	5.1	383.7	112.8	0.00	0.00	0.00
3,000.0	29.68	89.25	2,925.9	5.4	408.5	120.1	0.00	0.00	0.00
3,050.0	29.68	89.25	2,969.3	5.7	433.2	127.4	0.00	0.00	0.00
3,100.0	29.68	89.25	3,012.7	6.0	458.0	134.7	0.00	0.00	0.00
3,150.0	29.68	89.25	3,056.2	6.4	482.8	142.0	0.00	0.00	0.00
3,200.0	29.68	89.25	3,099.6	6.7	507.5	149.2	0.00	0.00	0.00
3,250.0	29.68	89.25	3,143.1	7.0	532.3	156.5	0.00	0.00	0.00
3,300.0	29.68	89.25	3,186.5	7.3	557.0	163.8	0.00	0.00	0.00
3,350.0	29.68	89.25	3,229.9	7.7	581.8	171.1	0.00	0.00	0.00
3,400.0	29.68	89.25	3,273.4	8.0	606.5	178.4	0.00	0.00	0.00
3,450.0	29.68	89.25	3,316.8	8.3	631.3	185.6	0.00	0.00	0.00
3,500.0	29.68	89.25	3,360.3	8.6	656.1	192.9	0.00	0.00	0.00
3,550.0	29.68	89.25	3,403.7	9.0	680.8	200.2	0.00	0.00	0.00
3,600.0	29.68	89.25	3,447.1	9.3	705.6	207.5	0.00	0.00	0.00
3,650.0	29.68	89.25	3,490.6	9.6	730.3	214.8	0.00	0.00	0.00
3,700.0	29.68	89.25	3,534.0	9.9	755.1	222.0	0.00	0.00	0.00
3,750.0	29.68	89.25	3,577.5	10.3	779.8	229.3	0.00	0.00	0.00
3,800.0	29.68	89.25	3,620.9	10.6	804.6	236.6	0.00	0.00	0.00
3,850.0	29.68	89.25	3,664.3	10.9	829.4	243.9	0.00	0.00	0.00
3,900.0	29.68	89.25	3,707.8	11.3	854.1	251.2	0.00	0.00	0.00
3,950.0	29.68	89.25	3,751.2	11.6	878.9	258.4	0.00	0.00	0.00
4,000.0	29.68	89.25	3,794.7	11.9	903.6	265.7	0.00	0.00	0.00
4,050.0	29.68	89.25	3,838.1	12.2	928.4	273.0	0.00	0.00	0.00
4,100.0	29.68	89.25	3,881.5	12.6	953.1	280.3	0.00	0.00	0.00
4,150.0	29.68	89.25	3,925.0	12.9	977.9	287.6	0.00	0.00	0.00
4,200.0	29.68	89.25	3,968.4	13.2	1,002.6	294.8	0.00	0.00	0.00
4,250.0	29.68	89.25	4,011.9	13.5	1,027.4	302.1	0.00	0.00	0.00
4,300.0	29.68	89.25	4,055.3	13.9	1,052.2	309.4	0.00	0.00	0.00
4,350.0	29.68	89.25	4,098.7	14.2	1,076.9	316.7	0.00	0.00	0.00
4,400.0	29.68	89.25	4,142.2	14.5	1,101.7	324.0	0.00	0.00	0.00
4,450.0	29.68	89.25	4,185.6	14.8	1,126.4	331.2	0.00	0.00	0.00
4,500.0	29.68	89.25	4,229.1	15.2	1,151.2	338.5	0.00	0.00	0.00
4,550.0	29.68	89.25	4,272.5	15.5	1,175.9	345.8	0.00	0.00	0.00
4,600.0	29.68	89.25	4,315.9	15.8	1,200.7	353.1	0.00	0.00	0.00
4,650.0	29.68	89.25	4,359.4	16.1	1,225.5	360.4	0.00	0.00	0.00
4,700.0	29.68	89.25	4,402.8	16.5	1,250.2	367.6	0.00	0.00	0.00
4,750.0	29.68	89.25	4,446.3	16.8	1,275.0	374.9	0.00	0.00	0.00
4,800.0	29.68	89.25	4,489.7	17.1	1,299.7	382.2	0.00	0.00	0.00
4,850.0	29.68	89.25	4,533.1	17.4	1,324.5	389.5	0.00	0.00	0.00
4,900.0	29.68	89.25	4,576.6	17.8	1,349.2	396.8	0.00	0.00	0.00
4,950.0	29.68	89.25	4,620.0	18.1	1,374.0	404.1	0.00	0.00	0.00
5,000.0	29.68	89.25	4,663.4	18.4	1,398.7	411.3	0.00	0.00	0.00
5,050.0	29.68	89.25	4,706.9	18.8	1,423.5	418.6	0.00	0.00	0.00
5,100.0	29.68	89.25	4,750.3	19.1	1,448.3	425.9	0.00	0.00	0.00
5,150.0	29.68	89.25	4,793.8	19.4	1,473.0	433.2	0.00	0.00	0.00
5,200.0	29.68	89.25	4,837.2	19.7	1,497.8	440.5	0.00	0.00	0.00
5,250.0	29.68	89.25	4,880.6	20.1	1,522.5	447.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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	29.68	89.25	4,924.1	20.4	1,547.3	455.0	0.00	0.00	0.00
5,350.0	29.68	89.25	4,967.5	20.7	1,572.0	462.3	0.00	0.00	0.00
5,400.0	29.68	89.25	5,011.0	21.0	1,596.8	469.6	0.00	0.00	0.00
5,450.0	29.68	89.25	5,054.4	21.4	1,621.6	476.9	0.00	0.00	0.00
5,500.0	29.68	89.25	5,097.8	21.7	1,646.3	484.1	0.00	0.00	0.00
5,550.0	29.68	89.25	5,141.3	22.0	1,671.1	491.4	0.00	0.00	0.00
5,600.0	29.68	89.25	5,184.7	22.3	1,695.8	498.7	0.00	0.00	0.00
5,650.0	29.68	89.25	5,228.2	22.7	1,720.6	506.0	0.00	0.00	0.00
5,700.0	29.68	89.25	5,271.6	23.0	1,745.3	513.3	0.00	0.00	0.00
5,750.0	29.68	89.25	5,315.0	23.3	1,770.1	520.5	0.00	0.00	0.00
5,800.0	29.68	89.25	5,358.5	23.6	1,794.8	527.8	0.00	0.00	0.00
5,850.0	29.68	89.25	5,401.9	24.0	1,819.6	535.1	0.00	0.00	0.00
5,900.0	29.68	89.25	5,445.4	24.3	1,844.4	542.4	0.00	0.00	0.00
5,950.0	29.68	89.25	5,488.8	24.6	1,869.1	549.7	0.00	0.00	0.00
6,000.0	29.68	89.25	5,532.2	25.0	1,893.9	556.9	0.00	0.00	0.00
6,050.0	29.68	89.25	5,575.7	25.3	1,918.6	564.2	0.00	0.00	0.00
6,100.0	29.68	89.25	5,619.1	25.6	1,943.4	571.5	0.00	0.00	0.00
6,150.0	29.68	89.25	5,662.6	25.9	1,968.1	578.8	0.00	0.00	0.00
6,200.0	29.68	89.25	5,706.0	26.3	1,992.9	586.1	0.00	0.00	0.00
6,250.0	29.68	89.25	5,749.4	26.6	2,017.7	593.3	0.00	0.00	0.00
6,300.0	29.68	89.25	5,792.9	26.9	2,042.4	600.6	0.00	0.00	0.00
6,350.0	29.68	89.25	5,836.3	27.2	2,067.2	607.9	0.00	0.00	0.00
6,400.0	29.68	89.25	5,879.8	27.6	2,091.9	615.2	0.00	0.00	0.00
6,450.0	29.68	89.25	5,923.2	27.9	2,116.7	622.5	0.00	0.00	0.00
6,500.0	29.68	89.25	5,966.6	28.2	2,141.4	629.7	0.00	0.00	0.00
6,550.0	29.68	89.25	6,010.1	28.5	2,166.2	637.0	0.00	0.00	0.00
6,600.0	29.68	89.25	6,053.5	28.9	2,190.9	644.3	0.00	0.00	0.00
6,650.0	29.68	89.25	6,097.0	29.2	2,215.7	651.6	0.00	0.00	0.00
6,700.0	29.68	89.25	6,140.4	29.5	2,240.5	658.9	0.00	0.00	0.00
6,750.0	29.68	89.25	6,183.8	29.8	2,265.2	666.1	0.00	0.00	0.00
6,800.0	29.68	89.25	6,227.3	30.2	2,290.0	673.4	0.00	0.00	0.00
6,850.0	29.68	89.25	6,270.7	30.5	2,314.7	680.7	0.00	0.00	0.00
6,900.0	29.68	89.25	6,314.2	30.8	2,339.5	688.0	0.00	0.00	0.00
6,950.0	29.68	89.25	6,357.6	31.1	2,364.2	695.3	0.00	0.00	0.00
7,000.0	29.68	89.25	6,401.0	31.5	2,389.0	702.5	0.00	0.00	0.00
7,050.0	29.68	89.25	6,444.5	31.8	2,413.8	709.8	0.00	0.00	0.00
7,100.0	29.68	89.25	6,487.9	32.1	2,438.5	717.1	0.00	0.00	0.00
7,150.0	29.68	89.25	6,531.4	32.5	2,463.3	724.4	0.00	0.00	0.00
7,200.0	29.68	89.25	6,574.8	32.8	2,488.0	731.7	0.00	0.00	0.00
7,250.0	29.68	89.25	6,618.2	33.1	2,512.8	738.9	0.00	0.00	0.00
7,300.0	29.68	89.25	6,661.7	33.4	2,537.5	746.2	0.00	0.00	0.00
7,350.0	29.68	89.25	6,705.1	33.8	2,562.3	753.5	0.00	0.00	0.00
7,400.0	29.68	89.25	6,748.6	34.1	2,587.0	760.8	0.00	0.00	0.00
7,450.0	29.68	89.25	6,792.0	34.4	2,611.8	768.1	0.00	0.00	0.00
7,500.0	29.68	89.25	6,835.4	34.7	2,636.6	775.3	0.00	0.00	0.00
7,550.0	29.68	89.25	6,878.9	35.1	2,661.3	782.6	0.00	0.00	0.00
7,600.0	29.68	89.25	6,922.3	35.4	2,686.1	789.9	0.00	0.00	0.00
7,650.0	29.68	89.25	6,965.8	35.7	2,710.8	797.2	0.00	0.00	0.00
7,700.0	29.68	89.25	7,009.2	36.0	2,735.6	804.5	0.00	0.00	0.00
7,750.0	29.68	89.25	7,052.6	36.4	2,760.3	811.7	0.00	0.00	0.00
7,800.0	29.68	89.25	7,096.1	36.7	2,785.1	819.0	0.00	0.00	0.00
7,850.0	29.68	89.25	7,139.5	37.0	2,809.9	826.3	0.00	0.00	0.00
7,900.0	29.68	89.25	7,183.0	37.3	2,834.6	833.6	0.00	0.00	0.00
7,950.0	29.68	89.25	7,226.4	37.7	2,859.4	840.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
8,000.0	29.68	89.25	7,269.8	38.0	2,884.1	848.1	0.00	0.00	0.00
8,050.0	29.68	89.25	7,313.3	38.3	2,908.9	855.4	0.00	0.00	0.00
8,100.0	29.68	89.25	7,356.7	38.6	2,933.6	862.7	0.00	0.00	0.00
8,150.0	29.68	89.25	7,400.2	39.0	2,958.4	870.0	0.00	0.00	0.00
8,200.0	29.68	89.25	7,443.6	39.3	2,983.2	877.3	0.00	0.00	0.00
8,250.0	29.68	89.25	7,487.0	39.6	3,007.9	884.5	0.00	0.00	0.00
8,300.0	29.68	89.25	7,530.5	40.0	3,032.7	891.8	0.00	0.00	0.00
8,329.9	29.68	89.25	7,556.4	40.1	3,047.5	896.2	0.00	0.00	0.00
8,350.0	29.28	89.25	7,574.0	40.3	3,057.4	899.1	2.00	-2.00	0.00
8,400.0	28.28	89.25	7,617.8	40.6	3,081.4	906.2	2.00	-2.00	0.00
8,450.0	27.28	89.25	7,662.0	40.9	3,104.7	913.0	2.00	-2.00	0.00
8,500.0	26.28	89.25	7,706.6	41.2	3,127.3	919.6	2.00	-2.00	0.00
8,550.0	25.28	89.25	7,751.7	41.5	3,149.0	926.0	2.00	-2.00	0.00
8,600.0	24.28	89.25	7,797.1	41.8	3,169.9	932.2	2.00	-2.00	0.00
8,650.0	23.28	89.25	7,842.8	42.0	3,190.1	938.1	2.00	-2.00	0.00
8,700.0	22.28	89.25	7,888.9	42.3	3,209.5	943.8	2.00	-2.00	0.00
8,750.0	21.28	89.25	7,935.4	42.5	3,228.0	949.3	2.00	-2.00	0.00
8,800.0	20.28	89.25	7,982.1	42.8	3,245.7	954.5	2.00	-2.00	0.00
8,850.0	19.28	89.25	8,029.2	43.0	3,262.7	959.5	2.00	-2.00	0.00
8,900.0	18.28	89.25	8,076.5	43.2	3,278.8	964.2	2.00	-2.00	0.00
8,950.0	17.28	89.25	8,124.1	43.4	3,294.0	968.7	2.00	-2.00	0.00
9,000.0	16.28	89.25	8,172.0	43.6	3,308.5	972.9	2.00	-2.00	0.00
9,050.0	15.28	89.25	8,220.1	43.8	3,322.1	976.9	2.00	-2.00	0.00
9,100.0	14.28	89.25	8,268.4	43.9	3,334.8	980.7	2.00	-2.00	0.00
9,150.0	13.28	89.25	8,317.0	44.1	3,346.7	984.2	2.00	-2.00	0.00
9,200.0	12.28	89.25	8,365.8	44.2	3,357.8	987.4	2.00	-2.00	0.00
9,250.0	11.28	89.25	8,414.7	44.4	3,368.0	990.4	2.00	-2.00	0.00
9,300.0	10.28	89.25	8,463.8	44.5	3,377.3	993.2	2.00	-2.00	0.00
9,350.0	9.28	89.25	8,513.1	44.6	3,385.8	995.7	2.00	-2.00	0.00
9,400.0	8.28	89.25	8,562.5	44.7	3,393.4	997.9	2.00	-2.00	0.00
9,450.0	7.28	89.25	8,612.0	44.8	3,400.2	999.9	2.00	-2.00	0.00
9,500.0	6.28	89.25	8,661.7	44.9	3,406.1	1,001.6	2.00	-2.00	0.00
9,550.0	5.28	89.25	8,711.4	44.9	3,411.2	1,003.1	2.00	-2.00	0.00
9,600.0	4.28	89.25	8,761.3	45.0	3,415.3	1,004.3	2.00	-2.00	0.00
9,650.0	3.28	89.25	8,811.2	45.0	3,418.6	1,005.3	2.00	-2.00	0.00
9,700.0	2.28	89.25	8,861.1	45.1	3,421.0	1,006.0	2.00	-2.00	0.00
9,750.0	1.28	89.25	8,911.1	45.1	3,422.6	1,006.5	2.00	-2.00	0.00
9,800.0	0.28	89.25	8,961.1	45.1	3,423.3	1,006.7	2.00	-2.00	0.00
9,813.9	0.00	0.00	8,975.0	45.1	3,423.3	1,006.7	2.00	-2.00	0.00
KOP : 473' FSL & 500' FEL (Sec 18)									
9,850.0	3.61	179.56	9,011.0	44.0	3,423.3	1,007.8	10.00	10.00	0.00
9,900.0	8.60	179.56	9,060.7	38.6	3,423.3	1,012.8	10.00	10.00	0.00
9,950.0	13.60	179.56	9,109.8	29.0	3,423.4	1,022.0	10.00	10.00	0.00
10,000.0	18.60	179.56	9,157.8	15.2	3,423.5	1,035.3	10.00	10.00	0.00
10,050.0	23.60	179.56	9,204.4	-2.8	3,423.7	1,052.4	10.00	10.00	0.00
10,100.0	28.60	179.56	9,249.3	-24.8	3,423.8	1,073.4	10.00	10.00	0.00
10,150.0	33.60	179.56	9,292.1	-50.6	3,424.0	1,098.0	10.00	10.00	0.00
10,200.0	38.60	179.56	9,332.5	-80.1	3,424.3	1,126.1	10.00	10.00	0.00
10,250.0	43.59	179.56	9,370.2	-112.9	3,424.5	1,157.5	10.00	10.00	0.00
10,300.0	48.59	179.56	9,404.9	-149.0	3,424.8	1,191.9	10.00	10.00	0.00
10,350.0	53.59	179.56	9,436.2	-187.8	3,425.1	1,229.0	10.00	10.00	0.00
10,400.0	58.59	179.56	9,464.1	-229.3	3,425.4	1,268.5	10.00	10.00	0.00
10,450.0	63.59	179.56	9,488.3	-273.1	3,425.7	1,310.3	10.00	10.00	0.00
10,500.0	68.59	179.56	9,508.6	-318.8	3,426.1	1,353.9	10.00	10.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
10,550.0	73.59	179.56	9,524.8	-366.1	3,426.4	1,399.0	10.00	10.00	0.00
10,600.0	78.59	179.56	9,536.8	-414.6	3,426.8	1,445.3	10.00	10.00	0.00
10,650.0	83.58	179.56	9,544.5	-464.0	3,427.2	1,492.4	10.00	10.00	0.00
10,700.0	88.58	179.56	9,547.9	-513.8	3,427.6	1,540.0	10.00	10.00	0.00
10,702.8	88.86	179.56	9,548.0	-516.6	3,427.6	1,542.7	10.00	10.00	0.00
10,713.9	88.86	179.56	9,548.2	-527.7	3,427.7	1,553.2	0.00	0.00	0.00
FTP/LP : 100' FNL & 500' FEL (Sec 19)									
10,750.0	88.86	179.56	9,548.9	-563.8	3,427.9	1,587.7	0.00	0.00	0.00
10,800.0	88.86	179.56	9,549.9	-613.8	3,428.3	1,635.4	0.00	0.00	0.00
10,850.0	88.86	179.56	9,550.9	-663.8	3,428.7	1,683.1	0.00	0.00	0.00
10,900.0	88.86	179.56	9,551.9	-713.8	3,429.1	1,730.8	0.00	0.00	0.00
10,950.0	88.86	179.56	9,552.9	-763.8	3,429.5	1,778.5	0.00	0.00	0.00
11,000.0	88.86	179.56	9,553.9	-813.8	3,429.8	1,826.2	0.00	0.00	0.00
11,050.0	88.86	179.56	9,554.9	-863.7	3,430.2	1,873.9	0.00	0.00	0.00
11,100.0	88.86	179.56	9,555.9	-913.7	3,430.6	1,921.6	0.00	0.00	0.00
11,150.0	88.86	179.56	9,556.9	-963.7	3,431.0	1,969.3	0.00	0.00	0.00
11,200.0	88.86	179.56	9,557.9	-1,013.7	3,431.4	2,017.0	0.00	0.00	0.00
11,250.0	88.86	179.56	9,558.9	-1,063.7	3,431.7	2,064.7	0.00	0.00	0.00
11,300.0	88.86	179.56	9,559.9	-1,113.7	3,432.1	2,112.4	0.00	0.00	0.00
11,350.0	88.86	179.56	9,560.9	-1,163.7	3,432.5	2,160.1	0.00	0.00	0.00
11,400.0	88.86	179.56	9,561.8	-1,213.7	3,432.9	2,207.8	0.00	0.00	0.00
11,450.0	88.86	179.56	9,562.8	-1,263.7	3,433.3	2,255.5	0.00	0.00	0.00
11,500.0	88.86	179.56	9,563.8	-1,313.6	3,433.6	2,303.2	0.00	0.00	0.00
11,550.0	88.86	179.56	9,564.8	-1,363.6	3,434.0	2,350.9	0.00	0.00	0.00
11,600.0	88.86	179.56	9,565.8	-1,413.6	3,434.4	2,398.6	0.00	0.00	0.00
11,650.0	88.86	179.56	9,566.8	-1,463.6	3,434.8	2,446.3	0.00	0.00	0.00
11,700.0	88.86	179.56	9,567.8	-1,513.6	3,435.2	2,493.9	0.00	0.00	0.00
11,750.0	88.86	179.56	9,568.8	-1,563.6	3,435.5	2,541.6	0.00	0.00	0.00
11,800.0	88.86	179.56	9,569.8	-1,613.6	3,435.9	2,589.3	0.00	0.00	0.00
11,850.0	88.86	179.56	9,570.8	-1,663.6	3,436.3	2,637.0	0.00	0.00	0.00
11,900.0	88.86	179.56	9,571.8	-1,713.5	3,436.7	2,684.7	0.00	0.00	0.00
11,934.0	88.86	179.56	9,572.5	-1,747.5	3,436.9	2,717.1	0.00	0.00	0.00
PPP2 : 1220' FNL & 500' FEL (Sec 19)									
11,950.0	88.86	179.56	9,572.8	-1,763.5	3,437.1	2,732.4	0.00	0.00	0.00
12,000.0	88.86	179.56	9,573.8	-1,813.5	3,437.4	2,780.1	0.00	0.00	0.00
12,050.0	88.86	179.56	9,574.8	-1,863.5	3,437.8	2,827.8	0.00	0.00	0.00
12,100.0	88.86	179.56	9,575.8	-1,913.5	3,438.2	2,875.5	0.00	0.00	0.00
12,150.0	88.86	179.56	9,576.7	-1,963.5	3,438.6	2,923.2	0.00	0.00	0.00
12,200.0	88.86	179.56	9,577.7	-2,013.5	3,439.0	2,970.9	0.00	0.00	0.00
12,250.0	88.86	179.56	9,578.7	-2,063.5	3,439.3	3,018.6	0.00	0.00	0.00
12,300.0	88.86	179.56	9,579.7	-2,113.5	3,439.7	3,066.3	0.00	0.00	0.00
12,350.0	88.86	179.56	9,580.7	-2,163.4	3,440.1	3,114.0	0.00	0.00	0.00
12,400.0	88.86	179.56	9,581.7	-2,213.4	3,440.5	3,161.7	0.00	0.00	0.00
12,450.0	88.86	179.56	9,582.7	-2,263.4	3,440.9	3,209.4	0.00	0.00	0.00
12,500.0	88.86	179.56	9,583.7	-2,313.4	3,441.3	3,257.1	0.00	0.00	0.00
12,550.0	88.86	179.56	9,584.7	-2,363.4	3,441.6	3,304.8	0.00	0.00	0.00
12,600.0	88.86	179.56	9,585.7	-2,413.4	3,442.0	3,352.5	0.00	0.00	0.00
12,650.0	88.86	179.56	9,586.7	-2,463.4	3,442.4	3,400.2	0.00	0.00	0.00
12,700.0	88.86	179.56	9,587.7	-2,513.4	3,442.8	3,447.9	0.00	0.00	0.00
12,750.0	88.86	179.56	9,588.7	-2,563.4	3,443.2	3,495.6	0.00	0.00	0.00
12,800.0	88.86	179.56	9,589.7	-2,613.3	3,443.5	3,543.3	0.00	0.00	0.00
12,850.0	88.86	179.56	9,590.6	-2,663.3	3,443.9	3,591.0	0.00	0.00	0.00
12,900.0	88.86	179.56	9,591.6	-2,713.3	3,444.3	3,638.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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	88.86	179.56	9,592.6	-2,763.3	3,444.7	3,686.4	0.00	0.00	0.00
13,000.0	88.86	179.56	9,593.6	-2,813.3	3,445.1	3,734.1	0.00	0.00	0.00
13,050.0	88.86	179.56	9,594.6	-2,863.3	3,445.4	3,781.8	0.00	0.00	0.00
13,100.0	88.86	179.56	9,595.6	-2,913.3	3,445.8	3,829.5	0.00	0.00	0.00
13,150.0	88.86	179.56	9,596.6	-2,963.3	3,446.2	3,877.2	0.00	0.00	0.00
13,200.0	88.86	179.56	9,597.6	-3,013.3	3,446.6	3,924.9	0.00	0.00	0.00
13,250.0	88.86	179.56	9,598.6	-3,063.2	3,447.0	3,972.6	0.00	0.00	0.00
13,300.0	88.86	179.56	9,599.6	-3,113.2	3,447.3	4,020.3	0.00	0.00	0.00
13,350.0	88.86	179.56	9,600.6	-3,163.2	3,447.7	4,068.0	0.00	0.00	0.00
13,400.0	88.86	179.56	9,601.6	-3,213.2	3,448.1	4,115.7	0.00	0.00	0.00
13,450.0	88.86	179.56	9,602.6	-3,263.2	3,448.5	4,163.4	0.00	0.00	0.00
13,500.0	88.86	179.56	9,603.6	-3,313.2	3,448.9	4,211.1	0.00	0.00	0.00
13,550.0	88.86	179.56	9,604.6	-3,363.2	3,449.2	4,258.8	0.00	0.00	0.00
13,600.0	88.86	179.56	9,605.5	-3,413.2	3,449.6	4,306.5	0.00	0.00	0.00
13,650.0	88.86	179.56	9,606.5	-3,463.2	3,450.0	4,354.2	0.00	0.00	0.00
13,700.0	88.86	179.56	9,607.5	-3,513.1	3,450.4	4,401.9	0.00	0.00	0.00
13,750.0	88.86	179.56	9,608.5	-3,563.1	3,450.8	4,449.6	0.00	0.00	0.00
13,800.0	88.86	179.56	9,609.5	-3,613.1	3,451.1	4,497.3	0.00	0.00	0.00
13,850.0	88.86	179.56	9,610.5	-3,663.1	3,451.5	4,544.9	0.00	0.00	0.00
13,900.0	88.86	179.56	9,611.5	-3,713.1	3,451.9	4,592.6	0.00	0.00	0.00
13,950.0	88.86	179.56	9,612.5	-3,763.1	3,452.3	4,640.3	0.00	0.00	0.00
14,000.0	88.86	179.56	9,613.5	-3,813.1	3,452.7	4,688.0	0.00	0.00	0.00
14,050.0	88.86	179.56	9,614.5	-3,863.1	3,453.0	4,735.7	0.00	0.00	0.00
14,100.0	88.86	179.56	9,615.5	-3,913.1	3,453.4	4,783.4	0.00	0.00	0.00
14,150.0	88.86	179.56	9,616.5	-3,963.0	3,453.8	4,831.1	0.00	0.00	0.00
14,200.0	88.86	179.56	9,617.5	-4,013.0	3,454.2	4,878.8	0.00	0.00	0.00
14,250.0	88.86	179.56	9,618.5	-4,063.0	3,454.6	4,926.5	0.00	0.00	0.00
14,300.0	88.86	179.56	9,619.4	-4,113.0	3,455.0	4,974.2	0.00	0.00	0.00
14,350.0	88.86	179.56	9,620.4	-4,163.0	3,455.3	5,021.9	0.00	0.00	0.00
14,400.0	88.86	179.56	9,621.4	-4,213.0	3,455.7	5,069.6	0.00	0.00	0.00
14,450.0	88.86	179.56	9,622.4	-4,263.0	3,456.1	5,117.3	0.00	0.00	0.00
14,500.0	88.86	179.56	9,623.4	-4,313.0	3,456.5	5,165.0	0.00	0.00	0.00
14,550.0	88.86	179.56	9,624.4	-4,362.9	3,456.9	5,212.7	0.00	0.00	0.00
14,600.0	88.86	179.56	9,625.4	-4,412.9	3,457.2	5,260.4	0.00	0.00	0.00
14,650.0	88.86	179.56	9,626.4	-4,462.9	3,457.6	5,308.1	0.00	0.00	0.00
14,700.0	88.86	179.56	9,627.4	-4,512.9	3,458.0	5,355.8	0.00	0.00	0.00
14,750.0	88.86	179.56	9,628.4	-4,562.9	3,458.4	5,403.5	0.00	0.00	0.00
14,800.0	88.86	179.56	9,629.4	-4,612.9	3,458.8	5,451.2	0.00	0.00	0.00
14,850.0	88.86	179.56	9,630.4	-4,662.9	3,459.1	5,498.9	0.00	0.00	0.00
14,900.0	88.86	179.56	9,631.4	-4,712.9	3,459.5	5,546.6	0.00	0.00	0.00
14,950.0	88.86	179.56	9,632.4	-4,762.9	3,459.9	5,594.3	0.00	0.00	0.00
15,000.0	88.86	179.56	9,633.4	-4,812.8	3,460.3	5,642.0	0.00	0.00	0.00
15,050.0	88.86	179.56	9,634.3	-4,862.8	3,460.7	5,689.7	0.00	0.00	0.00
15,100.0	88.86	179.56	9,635.3	-4,912.8	3,461.0	5,737.4	0.00	0.00	0.00
15,150.0	88.86	179.56	9,636.3	-4,962.8	3,461.4	5,785.1	0.00	0.00	0.00
15,200.0	88.86	179.56	9,637.3	-5,012.8	3,461.8	5,832.8	0.00	0.00	0.00
15,250.0	88.86	179.56	9,638.3	-5,062.8	3,462.2	5,880.5	0.00	0.00	0.00
15,300.0	88.86	179.56	9,639.3	-5,112.8	3,462.6	5,928.2	0.00	0.00	0.00
15,350.0	88.86	179.56	9,640.3	-5,162.8	3,462.9	5,975.9	0.00	0.00	0.00
15,400.0	88.86	179.56	9,641.3	-5,212.8	3,463.3	6,023.6	0.00	0.00	0.00
15,450.0	88.86	179.56	9,642.3	-5,262.7	3,463.7	6,071.3	0.00	0.00	0.00
15,500.0	88.86	179.56	9,643.3	-5,312.7	3,464.1	6,119.0	0.00	0.00	0.00
15,550.0	88.86	179.56	9,644.3	-5,362.7	3,464.5	6,166.7	0.00	0.00	0.00
15,600.0	88.86	179.56	9,645.3	-5,412.7	3,464.8	6,214.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
15,650.0	88.86	179.56	9,646.3	-5,462.7	3,465.2	6,262.1	0.00	0.00	0.00
15,700.0	88.86	179.56	9,647.3	-5,512.7	3,465.6	6,309.8	0.00	0.00	0.00
15,750.0	88.86	179.56	9,648.3	-5,562.7	3,466.0	6,357.5	0.00	0.00	0.00
15,800.0	88.86	179.56	9,649.2	-5,612.7	3,466.4	6,405.2	0.00	0.00	0.00
15,850.0	88.86	179.56	9,650.2	-5,662.7	3,466.7	6,452.9	0.00	0.00	0.00
15,900.0	88.86	179.56	9,651.2	-5,712.6	3,467.1	6,500.6	0.00	0.00	0.00
15,950.0	88.86	179.56	9,652.2	-5,762.6	3,467.5	6,548.2	0.00	0.00	0.00
16,000.0	88.86	179.56	9,653.2	-5,812.6	3,467.9	6,595.9	0.00	0.00	0.00
16,050.0	88.86	179.56	9,654.2	-5,862.6	3,468.3	6,643.6	0.00	0.00	0.00
16,100.0	88.86	179.56	9,655.2	-5,912.6	3,468.6	6,691.3	0.00	0.00	0.00
16,150.0	88.86	179.56	9,656.2	-5,962.6	3,469.0	6,739.0	0.00	0.00	0.00
16,200.0	88.86	179.56	9,657.2	-6,012.6	3,469.4	6,786.7	0.00	0.00	0.00
16,250.0	88.86	179.56	9,658.2	-6,062.6	3,469.8	6,834.4	0.00	0.00	0.00
16,300.0	88.86	179.56	9,659.2	-6,112.6	3,470.2	6,882.1	0.00	0.00	0.00
16,350.0	88.86	179.56	9,660.2	-6,162.5	3,470.6	6,929.8	0.00	0.00	0.00
16,400.0	88.86	179.56	9,661.2	-6,212.5	3,470.9	6,977.5	0.00	0.00	0.00
16,450.0	88.86	179.56	9,662.2	-6,262.5	3,471.3	7,025.2	0.00	0.00	0.00
16,500.0	88.86	179.56	9,663.1	-6,312.5	3,471.7	7,072.9	0.00	0.00	0.00
16,550.0	88.86	179.56	9,664.1	-6,362.5	3,472.1	7,120.6	0.00	0.00	0.00
16,600.0	88.86	179.56	9,665.1	-6,412.5	3,472.5	7,168.3	0.00	0.00	0.00
16,650.0	88.86	179.56	9,666.1	-6,462.5	3,472.8	7,216.0	0.00	0.00	0.00
16,700.0	88.86	179.56	9,667.1	-6,512.5	3,473.2	7,263.7	0.00	0.00	0.00
16,750.0	88.86	179.56	9,668.1	-6,562.5	3,473.6	7,311.4	0.00	0.00	0.00
16,800.0	88.86	179.56	9,669.1	-6,612.4	3,474.0	7,359.1	0.00	0.00	0.00
16,850.0	88.86	179.56	9,670.1	-6,662.4	3,474.4	7,406.8	0.00	0.00	0.00
16,900.0	88.86	179.56	9,671.1	-6,712.4	3,474.7	7,454.5	0.00	0.00	0.00
16,950.0	88.86	179.56	9,672.1	-6,762.4	3,475.1	7,502.2	0.00	0.00	0.00
17,000.0	88.86	179.56	9,673.1	-6,812.4	3,475.5	7,549.9	0.00	0.00	0.00
17,050.0	88.86	179.56	9,674.1	-6,862.4	3,475.9	7,597.6	0.00	0.00	0.00
17,100.0	88.86	179.56	9,675.1	-6,912.4	3,476.3	7,645.3	0.00	0.00	0.00
17,150.0	88.86	179.56	9,676.1	-6,962.4	3,476.6	7,693.0	0.00	0.00	0.00
17,200.0	88.86	179.56	9,677.1	-7,012.3	3,477.0	7,740.7	0.00	0.00	0.00
17,250.0	88.86	179.56	9,678.0	-7,062.3	3,477.4	7,788.4	0.00	0.00	0.00
17,300.0	88.86	179.56	9,679.0	-7,112.3	3,477.8	7,836.1	0.00	0.00	0.00
17,350.0	88.86	179.56	9,680.0	-7,162.3	3,478.2	7,883.8	0.00	0.00	0.00
17,400.0	88.86	179.56	9,681.0	-7,212.3	3,478.5	7,931.5	0.00	0.00	0.00
17,450.0	88.86	179.56	9,682.0	-7,262.3	3,478.9	7,979.2	0.00	0.00	0.00
17,500.0	88.86	179.56	9,683.0	-7,312.3	3,479.3	8,026.9	0.00	0.00	0.00
17,550.0	88.86	179.56	9,684.0	-7,362.3	3,479.7	8,074.6	0.00	0.00	0.00
17,600.0	88.86	179.56	9,685.0	-7,412.3	3,480.1	8,122.3	0.00	0.00	0.00
17,650.0	88.86	179.56	9,686.0	-7,462.2	3,480.4	8,170.0	0.00	0.00	0.00
17,700.0	88.86	179.56	9,687.0	-7,512.2	3,480.8	8,217.7	0.00	0.00	0.00
17,750.0	88.86	179.56	9,688.0	-7,562.2	3,481.2	8,265.4	0.00	0.00	0.00
17,800.0	88.86	179.56	9,689.0	-7,612.2	3,481.6	8,313.1	0.00	0.00	0.00
17,850.0	88.86	179.56	9,690.0	-7,662.2	3,482.0	8,360.8	0.00	0.00	0.00
17,900.0	88.86	179.56	9,691.0	-7,712.2	3,482.3	8,408.5	0.00	0.00	0.00
17,950.0	88.86	179.56	9,691.9	-7,762.2	3,482.7	8,456.2	0.00	0.00	0.00
18,000.0	88.86	179.56	9,692.9	-7,812.2	3,483.1	8,503.9	0.00	0.00	0.00
18,050.0	88.86	179.56	9,693.9	-7,862.2	3,483.5	8,551.6	0.00	0.00	0.00
18,100.0	88.86	179.56	9,694.9	-7,912.1	3,483.9	8,599.2	0.00	0.00	0.00
18,150.0	88.86	179.56	9,695.9	-7,962.1	3,484.2	8,646.9	0.00	0.00	0.00
18,200.0	88.86	179.56	9,696.9	-8,012.1	3,484.6	8,694.6	0.00	0.00	0.00
18,250.0	88.86	179.56	9,697.9	-8,062.1	3,485.0	8,742.3	0.00	0.00	0.00
18,300.0	88.86	179.56	9,698.9	-8,112.1	3,485.4	8,790.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
18,350.0	88.86	179.56	9,699.9	-8,162.1	3,485.8	8,837.7	0.00	0.00	0.00
18,400.0	88.86	179.56	9,700.9	-8,212.1	3,486.2	8,885.4	0.00	0.00	0.00
18,450.0	88.86	179.56	9,701.9	-8,262.1	3,486.5	8,933.1	0.00	0.00	0.00
18,500.0	88.86	179.56	9,702.9	-8,312.1	3,486.9	8,980.8	0.00	0.00	0.00
18,550.0	88.86	179.56	9,703.9	-8,362.0	3,487.3	9,028.5	0.00	0.00	0.00
18,600.0	88.86	179.56	9,704.9	-8,412.0	3,487.7	9,076.2	0.00	0.00	0.00
18,650.0	88.86	179.56	9,705.9	-8,462.0	3,488.1	9,123.9	0.00	0.00	0.00
18,700.0	88.86	179.56	9,706.8	-8,512.0	3,488.4	9,171.6	0.00	0.00	0.00
18,750.0	88.86	179.56	9,707.8	-8,562.0	3,488.8	9,219.3	0.00	0.00	0.00
18,800.0	88.86	179.56	9,708.8	-8,612.0	3,489.2	9,267.0	0.00	0.00	0.00
18,850.0	88.86	179.56	9,709.8	-8,662.0	3,489.6	9,314.7	0.00	0.00	0.00
18,900.0	88.86	179.56	9,710.8	-8,712.0	3,490.0	9,362.4	0.00	0.00	0.00
18,950.0	88.86	179.56	9,711.8	-8,762.0	3,490.3	9,410.1	0.00	0.00	0.00
19,000.0	88.86	179.56	9,712.8	-8,811.9	3,490.7	9,457.8	0.00	0.00	0.00
19,050.0	88.86	179.56	9,713.8	-8,861.9	3,491.1	9,505.5	0.00	0.00	0.00
19,100.0	88.86	179.56	9,714.8	-8,911.9	3,491.5	9,553.2	0.00	0.00	0.00
19,150.0	88.86	179.56	9,715.8	-8,961.9	3,491.9	9,600.9	0.00	0.00	0.00
19,200.0	88.86	179.56	9,716.8	-9,011.9	3,492.2	9,648.6	0.00	0.00	0.00
19,250.0	88.86	179.56	9,717.8	-9,061.9	3,492.6	9,696.3	0.00	0.00	0.00
19,300.0	88.86	179.56	9,718.8	-9,111.9	3,493.0	9,744.0	0.00	0.00	0.00
19,350.0	88.86	179.56	9,719.8	-9,161.9	3,493.4	9,791.7	0.00	0.00	0.00
19,400.0	88.86	179.56	9,720.7	-9,211.9	3,493.8	9,839.4	0.00	0.00	0.00
19,450.0	88.86	179.56	9,721.7	-9,261.8	3,494.1	9,887.1	0.00	0.00	0.00
19,500.0	88.86	179.56	9,722.7	-9,311.8	3,494.5	9,934.8	0.00	0.00	0.00
19,550.0	88.86	179.56	9,723.7	-9,361.8	3,494.9	9,982.5	0.00	0.00	0.00
19,600.0	88.86	179.56	9,724.7	-9,411.8	3,495.3	10,030.2	0.00	0.00	0.00
19,650.0	88.86	179.56	9,725.7	-9,461.8	3,495.7	10,077.9	0.00	0.00	0.00
19,700.0	88.86	179.56	9,726.7	-9,511.8	3,496.0	10,125.6	0.00	0.00	0.00
19,750.0	88.86	179.56	9,727.7	-9,561.8	3,496.4	10,173.3	0.00	0.00	0.00
19,800.0	88.86	179.56	9,728.7	-9,611.8	3,496.8	10,221.0	0.00	0.00	0.00
19,850.0	88.86	179.56	9,729.7	-9,661.7	3,497.2	10,268.7	0.00	0.00	0.00
19,900.0	88.86	179.56	9,730.7	-9,711.7	3,497.6	10,316.4	0.00	0.00	0.00
19,950.0	88.86	179.56	9,731.7	-9,761.7	3,497.9	10,364.1	0.00	0.00	0.00
20,000.0	88.86	179.56	9,732.7	-9,811.7	3,498.3	10,411.8	0.00	0.00	0.00
20,050.0	88.86	179.56	9,733.7	-9,861.7	3,498.7	10,459.5	0.00	0.00	0.00
20,100.0	88.86	179.56	9,734.7	-9,911.7	3,499.1	10,507.2	0.00	0.00	0.00
20,150.0	88.86	179.56	9,735.6	-9,961.7	3,499.5	10,554.9	0.00	0.00	0.00
20,200.0	88.86	179.56	9,736.6	-10,011.7	3,499.8	10,602.5	0.00	0.00	0.00
20,250.0	88.86	179.56	9,737.6	-10,061.7	3,500.2	10,650.2	0.00	0.00	0.00
20,300.0	88.86	179.56	9,738.6	-10,111.6	3,500.6	10,697.9	0.00	0.00	0.00
20,350.0	88.86	179.56	9,739.6	-10,161.6	3,501.0	10,745.6	0.00	0.00	0.00
20,400.0	88.86	179.56	9,740.6	-10,211.6	3,501.4	10,793.3	0.00	0.00	0.00
20,450.0	88.86	179.56	9,741.6	-10,261.6	3,501.8	10,841.0	0.00	0.00	0.00
20,500.0	88.86	179.56	9,742.6	-10,311.6	3,502.1	10,888.7	0.00	0.00	0.00
20,550.0	88.86	179.56	9,743.6	-10,361.6	3,502.5	10,936.4	0.00	0.00	0.00
20,600.0	88.86	179.56	9,744.6	-10,411.6	3,502.9	10,984.1	0.00	0.00	0.00
20,650.0	88.86	179.56	9,745.6	-10,461.6	3,503.3	11,031.8	0.00	0.00	0.00
20,700.0	88.86	179.56	9,746.6	-10,511.6	3,503.7	11,079.5	0.00	0.00	0.00
20,750.0	88.86	179.56	9,747.6	-10,561.5	3,504.0	11,127.2	0.00	0.00	0.00
20,800.0	88.86	179.56	9,748.6	-10,611.5	3,504.4	11,174.9	0.00	0.00	0.00
20,850.0	88.86	179.56	9,749.6	-10,661.5	3,504.8	11,222.6	0.00	0.00	0.00
20,900.0	88.86	179.56	9,750.5	-10,711.5	3,505.2	11,270.3	0.00	0.00	0.00
20,950.0	88.86	179.56	9,751.5	-10,761.5	3,505.6	11,318.0	0.00	0.00	0.00
21,000.0	88.86	179.56	9,752.5	-10,811.5	3,505.9	11,365.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Mysterio 19/30 Fed Com #527H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3855.0usft (Original Well Elev)
Site:	Mysterio 19/30 Fed Com #527H	**North Reference:**	Grid
Well:	Sec 18, T18S, R33E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 500' FEL (Sec 30)		
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)
21,050.0	88.86	179.56	9,753.5	-10,861.5	3,506.3	11,413.4	0.00	0.00	0.00
21,074.0	88.86	179.56	9,754.0	-10,885.5	3,506.5	11,436.3	0.00	0.00	0.00
BHL : 100' FSL & 500' FEL (Sec 30)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL : 450' FSL & 1430' I - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	634,030.50	734,037.50	32.7414205	-103.7066061
KOP : 473' FSL & 500' F - plan hits target center - Point	0.00	0.00	8,975.0	45.1	3,423.3	634,075.60	737,460.80	32.7414883	-103.6954720
FTP/LP : 100' FNL & 50(- plan hits target center - Point	0.00	0.00	9,548.2	-527.7	3,427.7	633,502.80	737,465.16	32.7399139	-103.6954690
PPP2 : 1220' FNL & 500 - plan hits target center - Point	0.00	0.00	9,572.5	-1,747.5	3,436.9	632,283.00	737,474.44	32.7365611	-103.6954627
BHL : 100' FSL & 500' FI - plan hits target center - Point	0.00	0.00	9,754.0	-10,885.5	3,506.5	623,145.00	737,544.00	32.7114440	-103.6954154

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: ☐ Initial Submittal ☑ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-56143	~~45793~~ 13160	CORBIN;BONE SPRING, SOUTH ~~MESCALERO ESCARPE; BONE SPRING~~

Property Code	Property Name	Well Number
338338	MYSTERIO 19/30 FED COM	527H

OGRID No.	Operator Name	Ground Level Elevation
14744	MEWBOURNE OIL COMPANY	3827'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal | Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	18	18S	33E		450 FSL	1430 FWL	32.7414206°N	103.7066061°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	30	18S	33E		100 FSL	500 FEL	32.7114441°N	103.6954154°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	DEFINING		Y	C

Order Numbers. N/A | Well setbacks are under Common Ownership: ☐ Yes ☑ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	18	18S	33E		473 FSL	500 FEL	32.7414884°N	103.6954721°W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	19	18S	33E		100 FNL	500 FEL	32.7399138°N	103.6954688°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	30	18S	33E		100 FSL	500 FEL	32.7114441°N	103.6954154°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
N/A	☑ Horizontal ☐ Vertical	3827'

OPERATOR CERTIFICATIONS

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

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

Erik Noguez — 4/15/2026

Signature — Date

Erik Noguez

Printed Name

enoguez@mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

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

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number	Date of Survey
19680	10/21/2024

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.

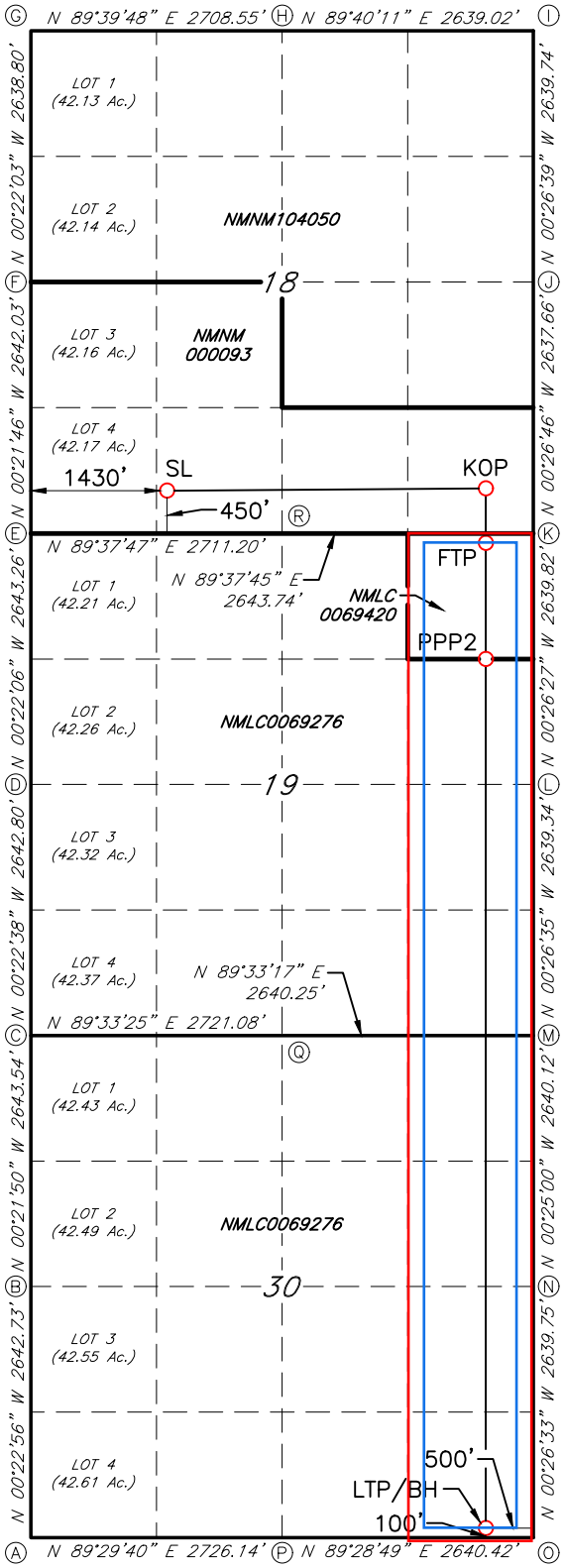
JOB #: LS24100864R2

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.

MYSTERIO 19/30 FED COM #527H



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
450' FSL & 1430' FWL SEC.18
N: 634030.5 – E: 734037.5

LAT: 32.7414206° N
LONG: 103.7066061° W

KICK OFF POINT (KOP)
473' FSL & 500' FEL SEC.18
N: 634075.6 – E: 737460.8

LAT: 32.7414884° N
LONG: 103.6954721° W

FIRST TAKE POINT (FTP)
100' FNL & 500' FEL SEC.19
N: 633502.8 – E: 737465.2

LAT: 32.7399138° N
LONG: 103.6954688° W

PROPOSED PENETRATION POINT 2 (PPP2)
1320' FNL & 500' FEL SEC.19
N: 632283.0 – E: 737474.5

LAT: 32.7365611° N
LONG: 103.6954625° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
100' FSL & 500' FEL SEC.30
N: 623145.0 – E: 737544.0

LAT: 32.7114441° N
LONG: 103.6954154° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1913"
N: 623001.6 – E: 732679.5

B: FOUND BRASS CAP "1913"
N: 625643.7 – E: 732661.8

C: FOUND BRASS CAP "1913"
N: 628286.6 – E: 732645.1

D: FOUND BRASS CAP "1913"
N: 630928.8 – E: 732627.7

E: FOUND BRASS CAP "1913"
N: 633571.4 – E: 732610.7

F: FOUND BRASS CAP "1913"
N: 636212.8 – E: 732594.0

G: FOUND BRASS CAP "1913"
N: 638850.9 – E: 732577.0

H: FOUND BRASS CAP "1913"
N: 638866.9 – E: 735284.9

I: FOUND BRASS CAP "1913"
N: 638882.1 – E: 737923.3

J: FOUND BRASS CAP "1913"
N: 636243.0 – E: 737943.8

K: FOUND BRASS CAP "1913"
N: 633606.0 – E: 737964.3

L: FOUND BRASS CAP "1913"
N: 630966.8 – E: 737984.7

M: FOUND BRASS CAP "1913"
N: 628328.2 – E: 738005.1

N: FOUND BRASS CAP "1913"
N: 625688.7 – E: 738024.2

O: FOUND BRASS CAP "1913"
N: 623049.6 – E: 738044.6

P: FOUND BRASS CAP "1913"
N: 623025.7 – E: 735404.9

Q: FOUND BRASS CAP "1913"
N: 628307.6 – E: 735365.5

R: FOUND BRASS CAP "1913"
N: 633588.9 – E: 735321.2

JOB #: LS24100864R2

Mewbourne Oil Company, Mysterio 19/30 Fed Com 527H
Sec 18, T18S, R33E
SHL: 450' FSL 1430' FWL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Well Location **GL: 3827'**

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 450' FSL & 1430' FWL (Sec 18)	NMNM000093	SESW	18	18S	33E	Lea	32.7414206	- 103.7066061	0'	0'
KOP	KOP: 473' FSL & 500' FEL (Sec 18)	NMNM000093	SESE	18	18S	33E	Lea	32.3741488	- 103.6954721	8,975'	9,814'
FTP	FTP/LP: 100' FNL & 500' FEL (Sec 19)	NMLC0069420	NENE	19	18S	33E	Lea	32.7399138	- 103.6954688	9,548'	10,714'
PPP2	PPP2: 1220' FNL & 500' FEL (Sec 19)	NMLC0069276	SENE	19	18S	33E	Lea	32.7365611	- 103.6954625	9,573'	11,934'
BHL	BHL: 100' FSL & 500' FEL (Sec 30)	NMLC0069276	SESE	30	18S	33E	Lea	32.7114441	- 103.6954154	9,754'	21,074'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	1374'	Dolomite/Anhydrite	Usable Water	Delaware (Lamar)			
Castile				Bell Canyon			
Salt Top	1483'	Salt	None	Cherry Canyon	5081'	Sandstone	Oil/Natural Gas
Marker Bed 126				Manzanita Marker			
Salt Base	2697'	Salt	None	Basal Brushy Canyon	5738'	Sandstone	Oil/Natural Gas
Yates	2866'	Sandstone	Oil/Natural Gas	Bone Spring	6871'	Limestone/Shale	Oil/Natural Gas
Seven Rivers	3362'	Dolomite	Oil/Natural Gas	1st Bone Spring Carbonate			
Queen	4105'	Sandstone/Dolomite	Oil/Natural Gas	1st Bone Spring Sand	8499'	Sandstone	Oil/Natural Gas
Capitan				2nd Bone Spring Carbonate	8776'	Limestone	Oil/Natural Gas
Grayburg	4409'	0	None	2nd Bone Spring Sand	**9021'**	Sandstone	Oil/Natural Gas
San Andres	4855'	Dolomite	Oil/Natural Gas	3rd Bone Spring Carbonate	9759'	Limestone	Oil/Natural Gas
Glorietta				3rd Bone Spring Sand	9934'	Sandstone	Oil/Natural Gas
Yeso				Wolfcamp	10258'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom MD	Bottom TVD	Casing Description	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	1450'	1450'	13.375" 48# H40 STC	1.19	2.67	4.63	7.77
Intermediate	12.25"	0'	0'	3000'	3000'	9.625" 36# J55 LTC	1.27	2.21	4.19	5.22
Production	8.75"	0'	0'	9814'	8975'	7" 26# P110 LTC	1.38	2.20	2.72	3.25
Liner	6.75"	9614'	8786'	21074'	9754'	4.5" 13.5# P110 LTC	1.83	2.13	2.18	2.73

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Mysterio 19/30 Fed Com 527H
Sec 18, T18S, R33E
SHL: 450' FSL 1430' FWL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Design A - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft^3/sack)	Depth (MD)	Volume (ft^3)	% Excess	Slurry Description
13.375 in	LEAD	830	12.5	2.12	0' - 1258'	1760	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1258' - 1450'	268		Class C: Retarder
9.625 in	LEAD	420	12.5	2.12	0' - 2312'	900	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2312' - 3000'	268		Class C: Retarder
7 in	LEAD	530	12.5	2.12	2800' - 6978'	1130	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	650	15.6	1.18	6978' - 9813.9'	767		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	1070	13.5	1.85	9613.9' - 21074'	1980	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Pressure Control Equipment

BOP installed and tested before drilling hole (in):	Size (in)	System Rated WP	Type		Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#/3500#	21,074'
		5M	Blind Ram	X	5000#	
			Pipe Ram	X		
			Double Ram			
			Other*			

*Specify if additional ram is utilized.

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.

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.

Y	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.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt (ppg)	Mud Type
0' - 1450'	8.4 - 8.6	Fresh Water
1450' - 3000'	10.0 - 10.2	Brine
3000' - 9813.9'	8.6 - 9.7	Cut-Brine
9813.9' - 21074'	10.0 - 11.5	OBM

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

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring

Mewbourne Oil Company, Mysterio 19/30 Fed Com 527H
Sec 18, T18S, R33E
SHL: 450' FSL 1430' FWL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from KOP (9813.9') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	No logs are planned based on well control or offset log information. Offset Well:
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

☐	Caliper	☐	Cement Bond Log	☐	CNL/FDC
☐	Compensated Densilog	☑	**Compensated Neutron Log**	☐	Computer Generated Log
☐	Dip Meter Log	☑	**Directional Survey**	☐	Dual Induction/Microresistivity
☐	Dual Lateral Log/Microspherically Focused	☐	Electric Log	☐	Formation Density Compensated Log
☑	**Gamma Ray Log**	☑	**Measurement While Drilling**	☐	Mud Log/Geological Lithology Log
☐	Other	☐	Porosity-Resistivity Log	☐	Sidewall Neutron Log
☐	Sonic Log	☐	Spontaneous Potential Log	☐	Temperature Log

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5833 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface 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 is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

Mewbourne Oil Company, Mysterio 19/30 Fed Com 527H
Sec 18, T18S, R33E
SHL: 450' FSL 1430' FWL (Sec 18)
BHL: 100' FSL 500' FEL (Sec 30)

Other facets of operation

Mewbourne Oil Company also requests approval to implement additional designs as described below &/or in other attachments. BLM will be notified of elected design.

Offline Cementing Variance: Variance is requested to perform offline cementing according to the attached procedure. **R-111Q:** Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash.

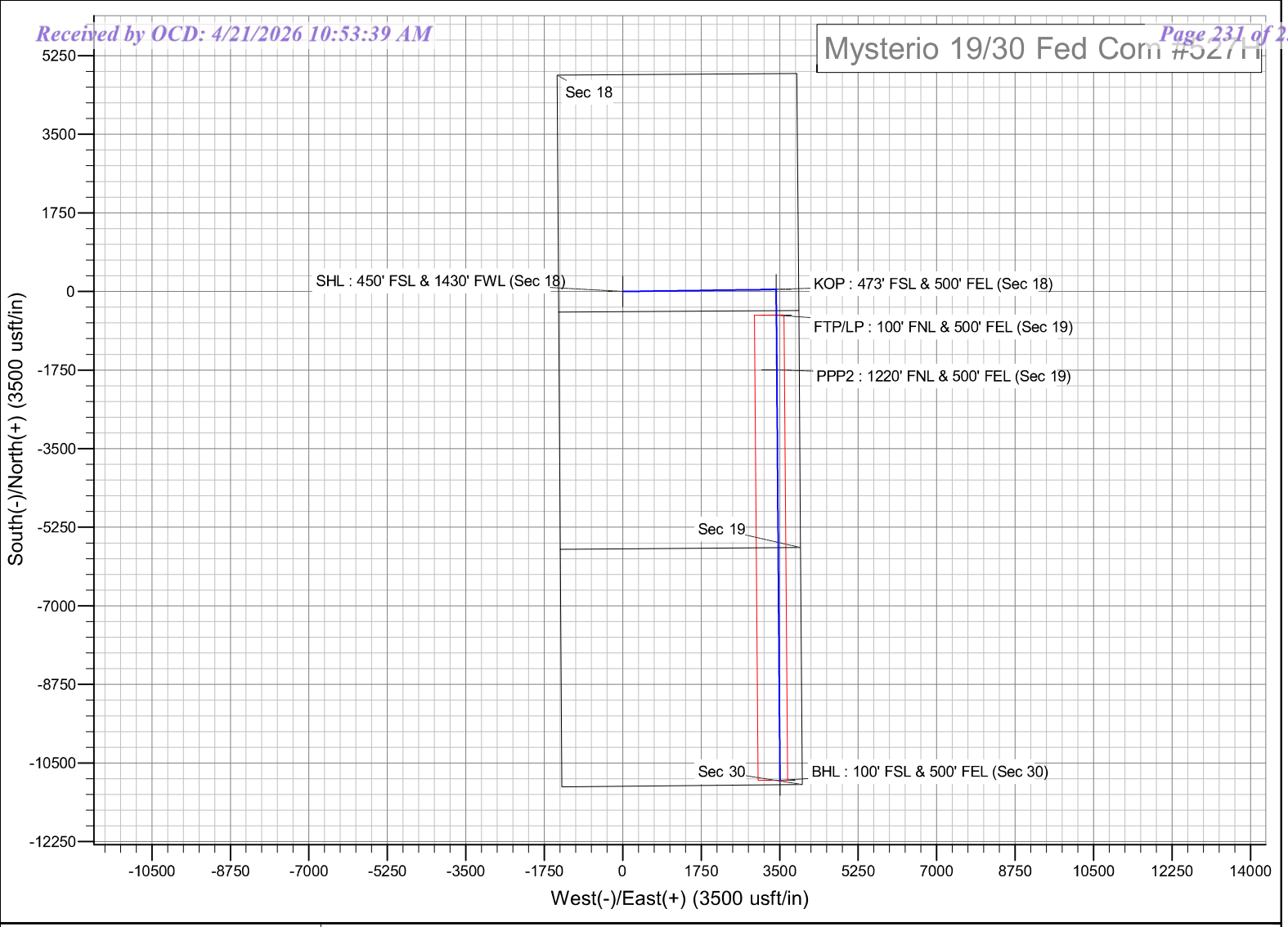
Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	**Hole Diameter (in)**	**Top MD**	**Top TVD**	**Bottom MD**	**Bottom TVD**	**Casing Description**	**SF Collapse**	**SF Burst**	**SF Jt Tension**	**SF Body Tension**
Surface	17.5"	0'	0'	1450'	1450'	13.375" 48# H40 STC	1.19	2.67	4.63	7.77
Intermediate	12.25"	0'	0'	3000'	3000'	9.625" 36# J55 LTC	1.27	2.21	4.19	5.22
Production	8.75"	0'	0'	10714'	9548'	7" 26# P110 LTC	1.29	2.07	2.49	2.98
Liner	6.75"	9814'	8975'	21074'	9754'	4.5" 13.5# P110 LTC	1.83	2.13	2.22	2.78

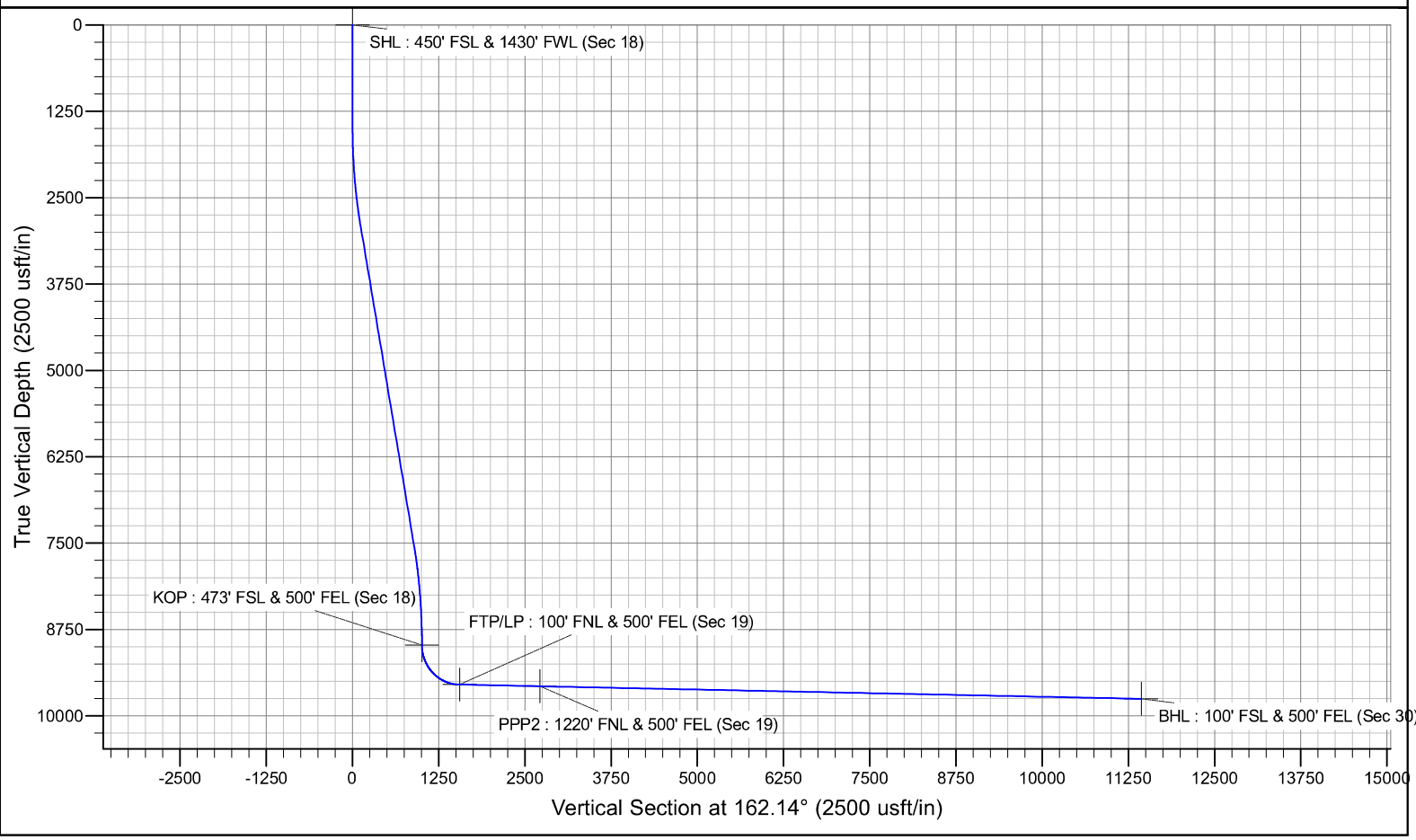
All casing strings will be tested in accordance with 43 CFR Part 3172. Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Design B - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft^3/sack)	Depth (MD)	Volume (ft^3)	% Excess	Slurry Description
13.375 in	LEAD	830	12.5	2.12	0' - 1258'	1760	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1258' - 1450'	268		Class C: Retarder
9.625 in	LEAD	420	12.5	2.12	0' - 2312'	900	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2312' - 3000'	268		Class C: Retarder
1st Stg 7 in	LEAD	510	12.5	2.12	2800' - 6992'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	820	15.6	1.18	6992' - 10714'	968		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	1020	13.5	1.85	9813.9' - 21074'	1890	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent


Mysterio 19/30 Fed Com #527H
Sec 18
SHL : 450' FSL & 1430' FWL (Sec 18)
KOP : 473' FSL & 500' FEL (Sec 18)
FTP/LP : 100' FNL & 500' FEL (Sec 19)
PPP2 : 1220' FNL & 500' FEL (Sec 19)
Sec 19
Sec 30
BHL : 100' FSL & 500' FEL (Sec 30)
South(-)/North(+) (3500 usft/in)
West(-)/East(+) (3500 usft/in)


SHL : 450' FSL & 1430' FWL (Sec 18)
KOP : 473' FSL & 500' FEL (Sec 18)
FTP/LP : 100' FNL & 500' FEL (Sec 19)
PPP2 : 1220' FNL & 500' FEL (Sec 19)
BHL : 100' FSL & 500' FEL (Sec 30)
True Vertical Depth (2500 usft/in)
Vertical Section at 162.14° (2500 usft/in)

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

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 577742
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	14744
	Action Number: 577742
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/21/2026
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	4/22/2026
jeffrey.harrison	Any string of casing or liner that is not circulated to surface must have a minimum of 200' of cement tie-back into the previous string of casing.	4/22/2026
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	4/22/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/22/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	4/22/2026
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	4/22/2026
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	4/22/2026