

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 20185. Lease Serial No.
NMNM54298

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
TEXAS TOOTHPICK 12/13 B2DM FED C

1H

9. API Well No.
30-015-5577810. Field and Pool, or Exploratory
GATUNA CANYON/BONE SPRING11. Sec., T. R. M. or Blk. and Survey or Area
SEC 1/T20S/R30E/NMP1a. Type of work: ☒ DRILL ☐ REENTER
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone2. Name of Operator
MEWBOURNE OIL COMPANY3a. Address
P O BOX 5270, HOBBS, NM 882413b. Phone No. (include area code)
(575) 393-59054. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface SWSW / 205 FSL / 1230 FWL / LAT 32.5956241 / LONG -103.9302579
At proposed prod. zone SWSW / 100 FSL / 660 FWL / LAT 32.5662907 / LONG -103.93210714. Distance in miles and direction from nearest town or post office*
20 miles12. County or Parish
EDDY13. State
NM15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
185 feet

16. No of acres in lease

17. Spacing Unit dedicated to this well
320.018. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.
20 feet19. Proposed Depth
8730 feet / 19439 feet20. BLM/BIA Bond No. in file
FED: NM 169321. Elevations (Show whether DF, KDB, RT, GL, etc.)
3320 feet22. Approximate date work will start*
10/26/202223. Estimated duration
60 days

24. Attachments

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

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

25. Signature
(Electronic Submission)Name (Printed/Typed)
BRADLEY BISHOP / Ph: (575) 393-5905Date
11/17/2022Title
RegulatoryApproved by (Signature)
(Electronic Submission)Name (Printed/Typed)
CODY LAYTON / Ph: (575) 234-5959Date
11/08/2024Title
Assistant Field Manager Lands & MineralsOffice
Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)



C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
		☐ As Drilled	

WELL LOCATION INFORMATION

API Number 30-015-55778	Pool Code 96688	Pool Name GATUNA CANYON; BONE SPRING
Property Code 336530	Property Name TEXAS TOOTHPICK 12-13 B2DM FED COM	Well Number 1H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3320
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
M	1	20S	30E		205 FSL	1230 FWL	32.5956241	-103.9302579	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	13	20S	30E		100 FSL	660 FWL	32.5662907	-103.9321070	EDDY

Dedicated Acres 320	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			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
M	1	20S	30E		473 FSL	660 FWL	32.5963612	-13.9321049	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	12	20S	30E		100 FNL	660 FWL	32.5947861	-103.9321050	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	13	20S	30E		100 FSL	660 FWL	32.5662907	-103.9321070	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3320
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  11/12/24		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
Signature RYAN MCDANIEL		Signature and Seal of Professional Surveyor	
Printed Name RYANMCDANIEL@MEWBOURNE.COM		Certificate Number	
Email Address		Date of Survey	

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-55778		² Pool Code 96688		³ Pool Name GATUNA CANYON; BONE SPRING	
⁴ Property Code 336530		⁵ Property Name TEXAS TOOTHPICK 12/13 B2DM FED COM			⁶ Well Number 1H
⁷ GRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3320'
¹⁰ Surface Location					
UL or lot no. M	Section 1	Township 20S	Range 30E	Lot Idn	Feet from the 205
				North/South line SOUTH	Feet From the 1230
				East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. M	Section 13	Township 20S	Range 30E	Lot Idn	Feet from the 100
				North/South line SOUTH	Feet from the 660
				East/West line WEST	County EDDY
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code	
¹⁵ Order No.					

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

¹⁶ <u>GEODETIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION</u> N: 580654.0 - E: 665472.0 LAT: 32.5956241° N LONG: 103.9302579° W <u>CORNER DATA</u> NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1943" N: 569876.3 - E: 664283.2 B: FOUND BRASS CAP "1943" N: 572497.7 - E: 664277.0 C: FOUND BRASS CAP "1943" N: 575148.7 - E: 664269.8 D: FOUND BRASS CAP "1943" N: 577799.8 - E: 664255.5 E: FOUND BRASS CAP "1943" N: 580444.6 - E: 664242.4 F: FOUND BRASS CAP "1943" N: 583088.0 - E: 664241.2 G: CALCULATED CORNER N: 585724.1 - E: 664264.2 H: FOUND BRASS CAP "1943" N: 585728.2 - E: 666895.6 I: FOUND BRASS CAP "1916" N: 585738.1 - E: 669540.9		<u>GEODETIC DATA</u> NAD 83 GRID - NM EAST <u>BOTTOM HOLE</u> N: 569980.2 - E: 664942.8 LAT: 32.5662907° N LONG: 103.9321070° W J: FOUND BRASS CAP "1943" N: 583109.6 - E: 669548.3 K: FOUND BRASS CAP "1943" N: 580471.6 - E: 669553.4 L: FOUND BRASS CAP "1943" N: 575192.8 - E: 669560.1 M: FOUND BRASS CAP "1943" N: 572552.1 - E: 669566.8 N: FOUND BRASS CAP "1943" N: 569912.0 - E: 669573.2 O: FOUND BRASS CAP "1943" N: 569892.0 - E: 666922.3 P: FOUND BRASS CAP "1943" N: 575170.4 - E: 666914.7 Q: FOUND BRASS CAP "1943" N: 580454.2 - E: 666896.0		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature <u>Ryan McDaniel</u> Date <u>10/6/22</u> Printed Name <u>RYAN MCDANIEL</u> E-mail Address <u>RYANMCDANIEL@MEWBOURNE.COM</u>	
¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey <u>09/21/2022</u> Signature and Seal of Professional Surveyor: <u>Robert M. Howett</u> Certificate Number <u>19680</u>					

JOB No: LS22091065

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

Submit Electronically
Via E-permitting

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:** 5/2/22

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
Texas Toothpick 12/13 B2DM Fed Com 1H		M 1 20S 30E	205' FSL x 1230' FWL	1500	3000	3500

IV. Central Delivery Point Name: Texas Toothpick 12/13 B2DM Fed Com 1H [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
Texas Toothpick 12/13 B2DM Fed Com 1H		7/2/22	8/2/22	9/2/22	9/17/22	9/17/22

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	<i>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	5/2/22
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

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

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

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



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

Drilling Plan Data Report

11/08/2024

APD ID: 10400089261

Submission Date: 11/17/2022

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TEXAS TOOTHPICK 12/13 B2DM FED COM

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14471972	UNKNOWN	3320	28	28	OTHER : Top Soil	NONE	N
14471977	RUSTLER	2975	345	345	ANHYDRITE, DOLOMITE	USEABLE WATER	N
14471976	TOP SALT	2697	623	623	SALT	NONE	N
14471973	BOTTOM SALT	1623	1697	1697	SALT	NONE	N
14471980	YATES	1400	1920	1920	SANDSTONE	NATURAL GAS, OIL	N
14471981	CAPITAN REEF	1141	2179	2179	DOLOMITE, LIMESTONE	USEABLE WATER	N
14471978	DELAWARE	-549	3869	3869	LIMESTONE	NATURAL GAS, OIL	N
14471971	BONE SPRINGS	-3328	6648	6648	LIMESTONE, SHALE	NATURAL GAS, OIL	N
14471974	BONE SPRING 1ST	-4560	7880	7880	SANDSTONE	NATURAL GAS, OIL	N
14471975	BONE SPRING 2ND	-5021	8341	8341	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 19439

Equipment: Annular, Pipe Rams, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead is being used. See attached schematic

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TEXAS TOOTHPICK 12/13 B2DM FED COM **Well Number:** 1H

(inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_5M_BOPE_Choke_Diagram_20221116094000.pdf

Flex_Line_Specs_API_16C_20241104090944.pdf

BOP Diagram Attachment:

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_5M_BOPE_Schematic_20221116094026.pdf

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_Mutli_Bowl_WH_20221116094026.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	26	18.625	NEW	API	N	0	420	0	420	3320	2900	420	J-55	87.5	BUTT	3.35	11.98	DRY	36.16	DRY	37.2
2	INTERMEDIATE	17.5	13.375	NEW	API	N	0	1850	0	1850	3624	1470	1850	J-55	54.5	ST&C	1.15	2.78	DRY	4.43	DRY	7.35
3	INTERMEDIATE	17.5	13.375	NEW	API	N	1850	2100	1850	2100	1470	1220	250	J-55	61	ST&C	1.38	2.77	DRY	39.02	DRY	63.08
4	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3800	0	3800	3319	-480	3800	J-55	34	LT&C	1.19	2.07	DRY	3.31	DRY	4.12
5	PRODUCTION	8.75	7.0	NEW	API	N	0	8172	0	8138	3319	-4818	8172	P-110	26	LT&C	1.52	2.42	DRY	3.26	DRY	3.91
6	LINER	6.125	4.5	NEW	API	N	7972	19439	7909	8730	-4589	-5410	11467	P-110	13.5	LT&C	2.14	2.49	DRY	2.18	DRY	2.73

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TEXAS TOOTHPICK 12/13 B2DM FED COM **Well Number:** 1H**Casing Attachments**

Casing ID: 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**18.625in_87.5__J55_BTC_Csg_20241104091050.pdf

Casing ID: 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**13.375in_54.5__J55_STC_Csg_20241104091400.pdf

Casing ID: 3 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**13.375in_61__J55_STC_Csg_20241104091411.pdf

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TEXAS TOOTH PICK 12/13 B2DM FED COM **Well Number:** 1H**Casing Attachments**

Casing ID: 4 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**9.625in_36__J55_LTC_Csg_20241104091652.pdf

Casing ID: 5 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**7in_26__P110_LTC_Csg_20241104091459.pdf

Casing ID: 6 **String** LINER**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**4.5in_13.5__P110_LTC_Csg_20241104091557.pdf

Section 4 - Cement

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TEXAS TOOTHPICK 12/13 B2DM FED COM **Well Number:** 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	345	590	2.12	12.5	1260	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		345	420	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	2150	0	1796	320	2.12	12.5	680	25	Class C	Salt, Gel Extender, LCM
INTERMEDIATE	Tail		1796	2150	100	1.34	14.8	134	25	Class C	Retarder
INTERMEDIATE	Lead		0	1829	850	2.12	12.5	1810	50	Class C	Salt, Gel Extender, LCM
INTERMEDIATE	Tail		1829	2100	200	1.34	14.8	268	50	Class C	Retarder
INTERMEDIATE	Lead	2150	2150	3128	180	2.12	12.5	390	25	Class C	Salt, Gel Extender, LCM
INTERMEDIATE	Tail		3128	3800	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		2129	4800	350	1.34	14.8	470	25	Class C	Salt, Gel, Extender, LCM, Defoamer

PRODUCTION	Lead		4800	7399	560	2.12	12.5	1190	0	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		7399	8172	300	1.18	15.6	354	0	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		7972	19439	730	1.85	13.5	1360	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TEXAS TOOTH PICK 12/13 B2DM FED COM **Well Number:** 1H**Section 5 - Circulating Medium****Mud System Type:** Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:****Describe what will be on location to control well or mitigate other conditions:** Lost circulation material Sweeps Mud scavengers in surface hole**Describe the mud monitoring system utilized:** Visual Monitoring/Pason/PVT**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	420	SPUD MUD	8.4	8.6							
420	2100	SALT SATURATED	10	10.2							
2100	3800	WATER-BASED MUD	8.4	8.6							
3800	8172	SALT SATURATED	8.6	9.7	0						
8172	19439	OIL-BASED MUD	10	11							

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TEXAS TOOTHPICK 12/13 B2DM FED COM **Well Number:** 1H

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (8172') to surface in deeper offset well Texas Toothpick 12/13 B2CN Fed Com #1H.

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4994

Anticipated Surface Pressure: 3073

Anticipated Bottom Hole Temperature(F): 140

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_H2S_Plan_20221116101422.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_MOC_Dir_Plan_20221116101451.pdf

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_MOC_Dir_Plot_20221116101451.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_Add_Info___Permitting_20221116101532.pdf

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_Drlg_Program_R_111Q_Var_4_string_20241104094435.pdf

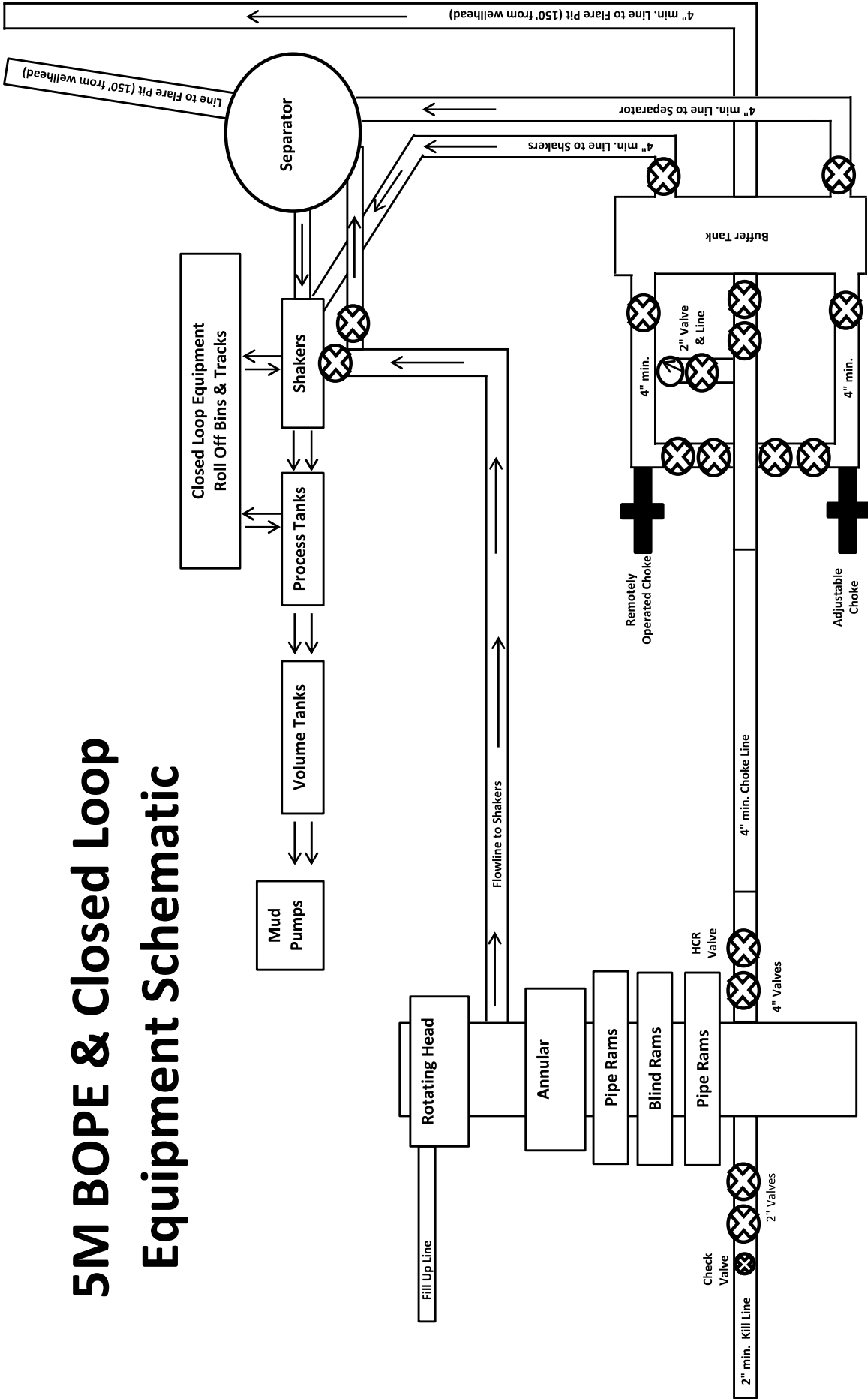
Other Variance attachment:

MOC_Break_Testing_Variance_20241104093637.pdf

MOC_Offline_Cementing_Variance_20241104093651.pdf

CONFIDENTIAL

5M BOPE & Closed Loop Equipment Schematic



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

Drawing not to scale



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTTY/QR-5.7.1-28

No: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition		
Product Specification	3"×10000psi×60ft (18.29m)	Serial Number	7660144		
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water		
Inspection Department	Q.C. Department	Inspection Date	2023.08.26		
Rate of length change					
Standard requirements	At working pressure ,the rate of length change should not more than ±2%				
Testing result	10000psi (69.0MPa) ,Rate of length change 0.7%				
Hydrostatic testing					
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.				
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage				
Graph of pressure testing:					
Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition				
Approver	Jiaolong Chen	Auditor	Huiling Dong	Inspector	Zhansheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-126-002

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

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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

No:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

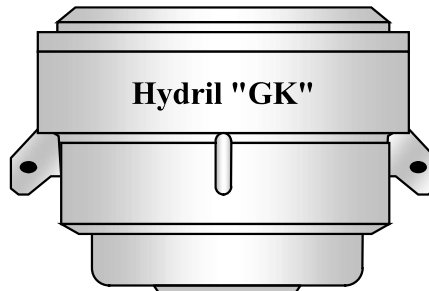
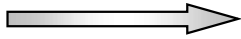
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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

QC Manager: *Jiaolong Chen*

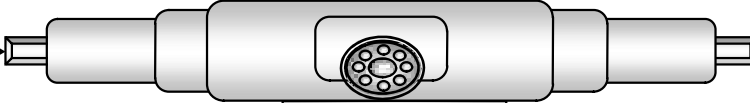
Date:Aug 26, 2023

Hydril "GK"
13 5/8" 5M

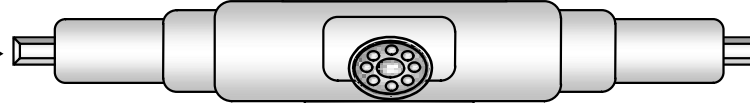


Hydril "GK"

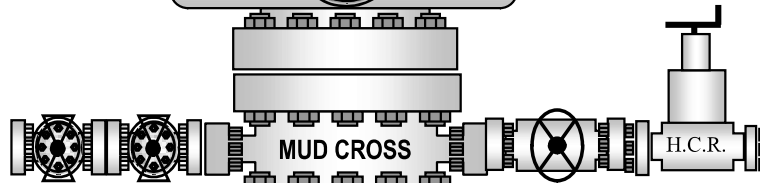
Cameron Type U
13 5/8" 5M



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

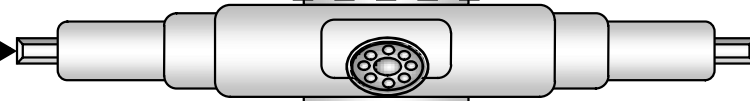


BLIND RAMS



MUD CROSS

H.C.R.



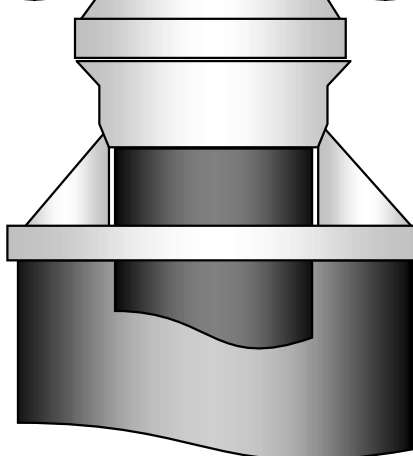
7" RAMS



13 5/8" 5M

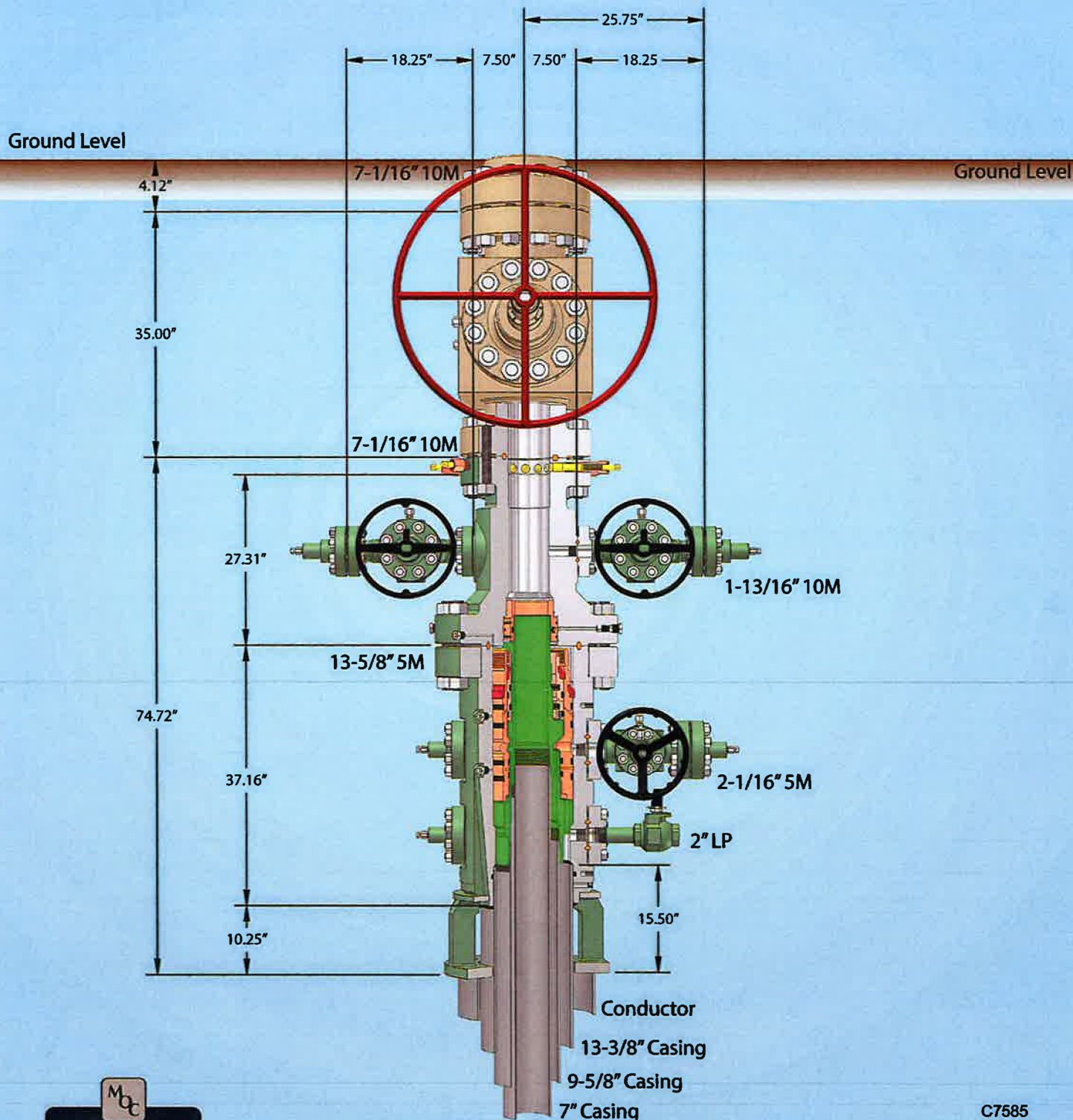
13 5/8" 5M

13 5/8" 5M





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.

Cuffing Hanger 57" conductor cut-off

Mewbourne Oil Company, Texas Toothpick 12/13 B2DM Fed Com 1H
Sec 1, T20S, R30E
SHL: 205' FSL 1230' FWL (Sec 1)
BHL: 100' FSL 660' FWL (Sec 13)

Well Location		GL: 3320'									
Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 205' FSL & 1230' FWL (Sec 1)	NMNM086913	SWSW	1	20S	30E	Eddy	32.5956241	- 103.9302579	0'	0'
KOP	KOP: 473' FSL & 660' FWL (Sec 1)	NMNM086913	SWSW	1	20S	30E	Eddy	32.5963612	- 103.9321049	8,138'	8,172'
FTP	FTP: 100' FNL & 660' FWL (Sec 12)	NMNM054298	NWNW	12	20S	30E	Eddy	32.594786.1	- 103.9321050	8,711'	9,072'
PPP2	PPP2: 2646' FNL & 660' FWL (Sec 12)	NMLC0070207	NWSW	12	20S	30E	Eddy	32.5877869	- 103.9321055	8,716'	11,619'
PPP3	PPP3: 1321' FSL & 660' FWL (Sec 12)	NMNM086913	SWSW	12	20S	30E	Eddy	32.5841434	- 103.9321058	8,718'	12,944'
PPP4	PPP4: 1312' FSL & 660' FWL (Sec 13)	NMNM0200343	SWSW	13	20S	30E	Eddy	32.5696233	- 103.9321068	8,728'	18,227'
BHL	BHL: 100' FSL & 660' FWL (Sec 13)	NMNM0200343	SWSW	13	20S	30E	Eddy	32.5662907	- 103.9321070	8,730'	19,439'

GEOLOGY							
Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	345'	Dolomite/Anhydrite	Usable Water	Yeso			
Castile				Delaware (Lamar)	3869'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	623'	Salt	None	Bell Canyon			
Marker Bed 126				Cherry Canyon			
Salt Base	1697'	Salt	None	Manzanita Marker			
Yates	1920'	Sandstone	Oil/Natural Gas	Basal Brushy Canyon			
Seven Rivers				Bone Spring	6648'	Limestone	Oil/Natural Gas
Queen				1st Bone Spring	7880'	Sandstone	Oil/Natural Gas
Capitan	2179'	Limestone/Dolomite	Usable Water	2nd Bone Spring	8341'	Sandstone	Oil/Natural Gas
Grayburg				3rd Bone Spring			
San Andres				Wolfcamp			

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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
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?	Y
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, Texas Toothpick 12/13 B2DM Fed Com 1H

Sec 1, T20S, R30E

SHL: 205' FSL 1230' FWL (Sec 1)

BHL: 100' FSL 660' FWL (Sec 13)

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Type		Tested to:	Rating Depth
17.5	20	5M	Annular	X	2500#/3500#	19,439'
		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., lb/gal	Mud Type
0' - 420'	8.4 - 8.6	Fresh Water
420' - 2100'	10.0 - 10.2	Brine
2100' - 3800'	8.4 - 8.6	Fresh Water
3800' - 8172'	8.6 - 9.7	Cut-Brine
8172' - 19439'	10.0 - 11.	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, Texas Toothpick 12/13 B2DM Fed Com 1H
Sec 1, T20S, R30E
SHL: 205' FSL 1230' FWL (Sec 1)
BHL: 100' FSL 660' FWL (Sec 13)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (8172') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No logs are planned based on well control or offset log information. Offset Well: Texas Toothpick 12/13 B2CN Fed Com 1H
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	4994 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/swallows/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

Other facets of operation

Mewbourne Oil Company also requests approval to implement Design B and Design C as described below. 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.

Mewbourne Oil Company R-111Q Procedure

Mewbourne Oil Company request permission to perform Open Hole Annulus procedure per R-111Q guidelines to be implemented as follows:

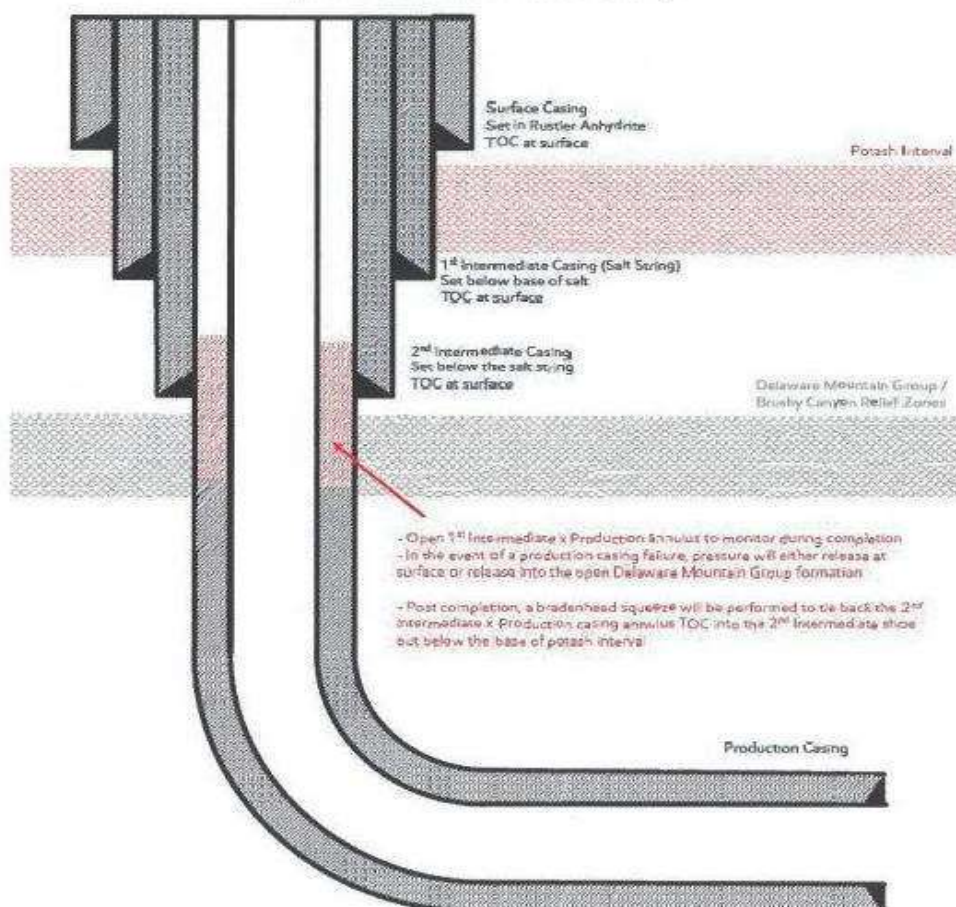
Production String

- a) The Production string shall consist new oil field casing in good condition that meets API specifications, rated for the loads expected over the lifecycle of the well.

 - b) The 2nd intermediate string shall consist of new oil field casing in good condition that meets API specifications and rated for the loads expected over the lifecycle of the well.

 - c) For all wells within the KPLA where a 2nd intermediate string will be utilized resulting in a four (4) -string wellbore design (surface, 1st intermediate, 2nd intermediate, and production casing strings), the following method shall apply to safely divert flow of wellbore fluids away from the salt interval in the event of a sudden production casing failure. The surface equipment utilized during stimulation operations shall be designed to relieve pressure from the annulus between the 2nd intermediate and production casing strings below the failure threshold of the casing string components.
 - iii) A monitored open annulus shall be incorporated by leaving the annulus between the 2nd intermediate and production string casings un-cemented and monitored inside of the 2nd intermediate string. Reference wellbore diagram Figure E in Exhibit B. This design is appropriate if the 2nd intermediate string is set above the Delaware Mountain Group / Brushy Canyon formation.
- (1) The top of cement in the annulus between the 2nd intermediate and production casing strings shall stand un-cemented at least 500 feet below the 2nd intermediate casing point. Zero percent excess shall be pumped on the production cementing slurry to ensure no tie-back into the 2nd intermediate casing shoe.
- (2) After hydraulic fracturing operations have been concluded and no longer than 180 days after the well is brought online, the operator shall bradenhead cement to ensure at least a 500 foot tie-back has been established inside the 2nd intermediate casing but not higher than USGS Marker Bed No. 126.
- (3) The top of cement may be estimated through pumped displacement volumes or with the use of a fluid shot tool prior to filling backside with fluid

4-String Design – Open 1st Int x Production Casing (ICP 2 above relief zone)



[Figure E] 4 String – Uncemented Annulus between 2nd Intermediate and Production Casing Strings

Mewbourne Oil Company, Texas Toothpick 12/13 B2DM Fed Com 1H
Sec 1, T20S, R30E
SHL: 205' FSL 1230' FWL (Sec)
BHL: 100' FSL 660' FWL (Sec)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	26"	0'	0'	420'	420'	18 5/8" 87.5# J55 BTC	3.35	11.98	36.16	37.20
Intermediate 1	17.5"	0'	0'	1850'	1850'	13.375" 54.5# J55 STC	1.15	2.78	4.43	7.35
Intermediate 1	17.5"	1850'	1850'	2100'	2100'	13.375" 61# J55 STC	1.38	2.77	39.02	63.08
Intermediate 2	12.25"	0'	0'	3800'	3800'	9.625" 36# J55 LTC	1.19	2.07	3.31	4.12
Production	8.75"	0'	0'	8172'	8138'	7" 26# P110 LTC	1.52	2.42	3.26	3.91
Liner	6.125"	7972'	7909'	19439'	8730'	4.5" 13.5# P110 LTC	2.14	2.49	2.18	2.73

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
18.625 in	LEAD	590	12.5	2.12	0' - 345'	1260	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	345' - 420'	268		Class C: Retarder
13.375 in	LEAD	850	12.5	2.12	0' - 1829'	1810		Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1829' - 2100'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	180	12.5	2.12	2150' - 3128'	390	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3128' - 3800'	268		Class C: Retarder
9 5/8" DV Tool @ 2150'								
2nd Stg 9.625 in	LEAD	320	12.5	2.12	0' - 1796'	680	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	1796' - 2150'	134		Class C: Retarder
7 in	LEAD	560	12.5	2.12	4800' - 7399'	1190	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	300	15.6	1.18	7399' - 8172'	354		Class H: Retarder, Fluid Loss, Defoamer
7" TOC @ 4800', BHS TOC @ 2129'								
Braden Head Sqz	LEAD	350	14.8	1.34	2129' - 4800'	470	25%	Class C
4.5 in	LEAD	730	13.5	1.85	7972' - 19439'	1360	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	26"	0'	0'	420'	420'	18 5/8" 87.5# J55 BTC	3.35	11.98	36.16	37.20
Int 1	17.5"	0'	0'	1850'	1850'	13.375" 54.5# J55 STC	1.15	2.78	4.43	7.35
Int 1	17.5"	1850'	1850'	2100'	2100'	13.375" 61# J55 STC	1.38	2.77	39.02	63.08
Int 2	12.25"	0'	0'	3800'	3800'	9.625" 36# J55 LTC	1.19	2.07	3.31	4.12
Production	8.75"	0'	0'	9072'	8711'	7" 26# P110 LTC	1.42	2.26	2.94	3.52
Liner	6.125"	8172'	8138'	19439'	8730'	4.5" 13.5# P110 LTC	2.14	2.49	2.22	2.77

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
18.625 in	LEAD	590	12.5	2.12	0' - 345'	1260	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	345' - 420'	268		Class C: Retarder
13.375 in	LEAD	850	12.5	2.12	0' - 1829'	1810	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1829' - 2100'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	180	12.5	2.12	2150' - 3128'	390	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3128' - 3800'	268		Class C: Retarder
9 5/8" DV Tool @ 2150'								
2nd Stg 9.625 in	LEAD	320	12.5	2.12	0' - 1796'	680	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	1796' - 2150'	134		Class C: Retarder
1st Stg 7 in	LEAD	90	12.5	2.12	4800' - 6071'	200	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6071' - 9072'	472		Class H: Retarder, Fluid Loss, Defoamer
7" TOC @ 4800', BHS TOC @ 2129'								
Braden Head Sqz	LEAD	340	14.8	1.34	2129' - 4800'	460	25%	Class C
4.5 in	LEAD	720	13.5	1.85	8172' - 19439'	1340	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Mewbourne Oil Company, Texas Toothpick 12/13 B2DM Fed Com 1H
Sec 1, T20S, R30E
SHL: 205' FSL 1230' FWL (Sec)
BHL: 100' FSL 660' FWL (Sec)

Casing Program Design C						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	26"	0'	0'	420'	420'	18 5/8" 87.5# J55 BTC	3.35	11.98	36.16	37.20
Intermediate 1	17.5"	0'	0'	1850'	1850'	13.375" 54.5# J55 STC	1.15	2.78	4.43	7.35
Intermediate 1	17.5"	1850'	1850'	2100'	2100'	13.375" 61# J55 STC	1.38	2.77	39.02	63.08
Intermediate 2	12.25"	0'	0'	3800'	3800'	9.625" 36# J55 LTC	1.19	2.07	3.31	4.12
Production	8.75"	0'	0'	8172'	8138'	7" 26# P110 LTC	1.42	2.26	3.26	3.91
Production	8.5"	8172'	8138'	19439'	8730'	4.5" 13.5# RYS110 CDC HTQ	2.14	2.49	2.81	2.77

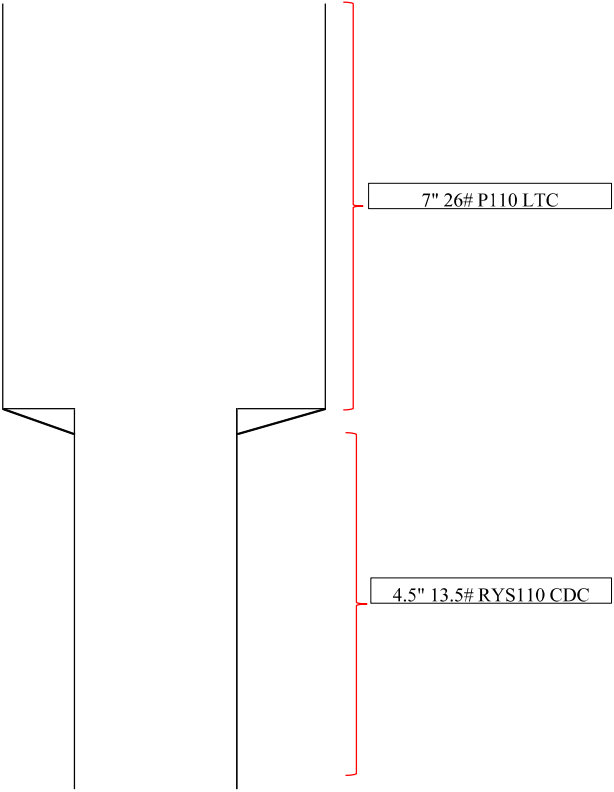
Cement Program C

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
18.625 in	LEAD	590	12.5	2.12	0' - 345'	1260	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	345' - 420'	268		Class C: Retarder
13.375 in	LEAD	850	12.5	2.12	0' - 1829'	1810	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1829' - 2100'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	180	12.5	2.12	2150' - 3128'	390	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3128' - 3800'	268		Class C: Retarder
9 5/8" DV Tool @ 2150'								
2nd Stg 9.625 in	LEAD	320	12.5	2.12	0' - 1796'	680	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	1796' - 2150'	134		Class C: Retarder
7 in - 4.5 in	LEAD	780	12.5	2.12	4800' - 6303'	1660	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	1750	15.6	1.18	7216' - 19439'	2065		Class H: Retarder, Fluid Loss, Defoamer
7" TOC @ 4800', BHS TOC @ 2129'								
Braden Head Sqz	LEAD	340	14.8	1.34	2129' - 4800'	460	25%	Class C

Mewbourne Oil Company, Texas Toothpick 12/13 B2DM Fed Com 1H
Sec 1, T20S, R30E
SHL: 205' FSL & 1230' FWL (Sec)
BHL: 100' FSL & 660' FWL (Sec)

Casing Design C

Hole Size	From	To	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	8172'	7" 26# P110 LTC				1.42	2.26	3.26	3.91
8.5	8172'	19439'	4.5" 13.5# RYS110 CDC HTQ				2.14	2.49	2.81	2.77



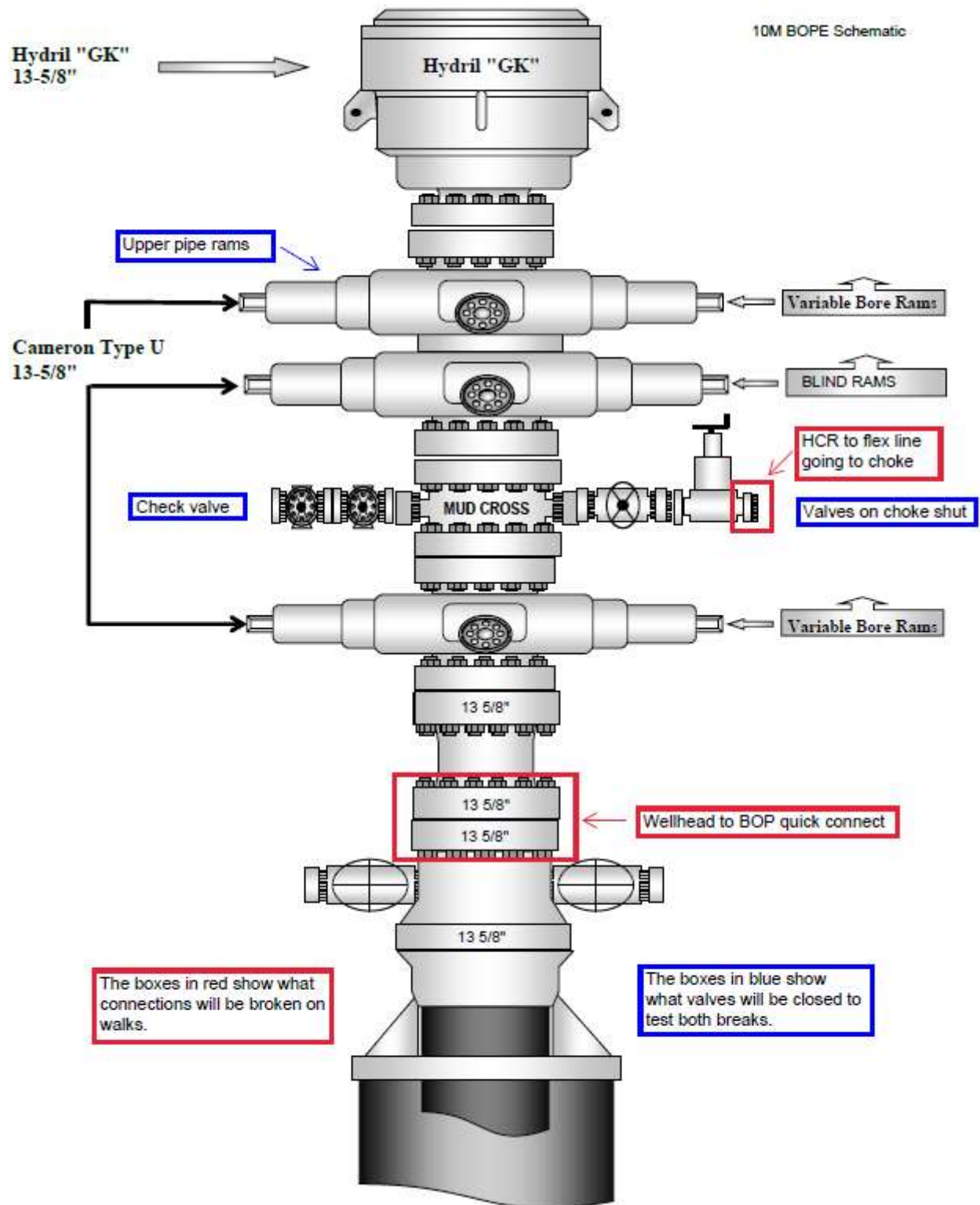


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

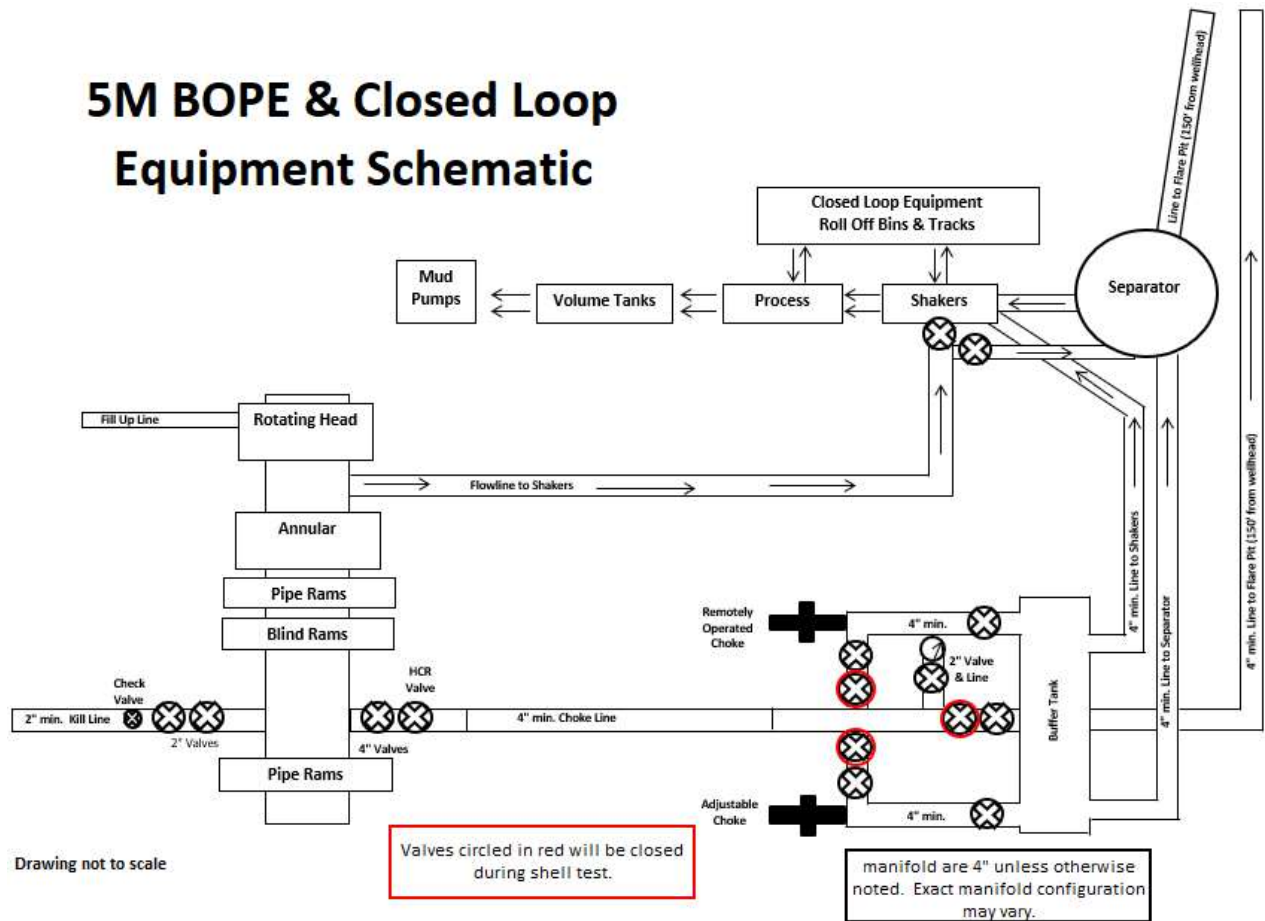


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

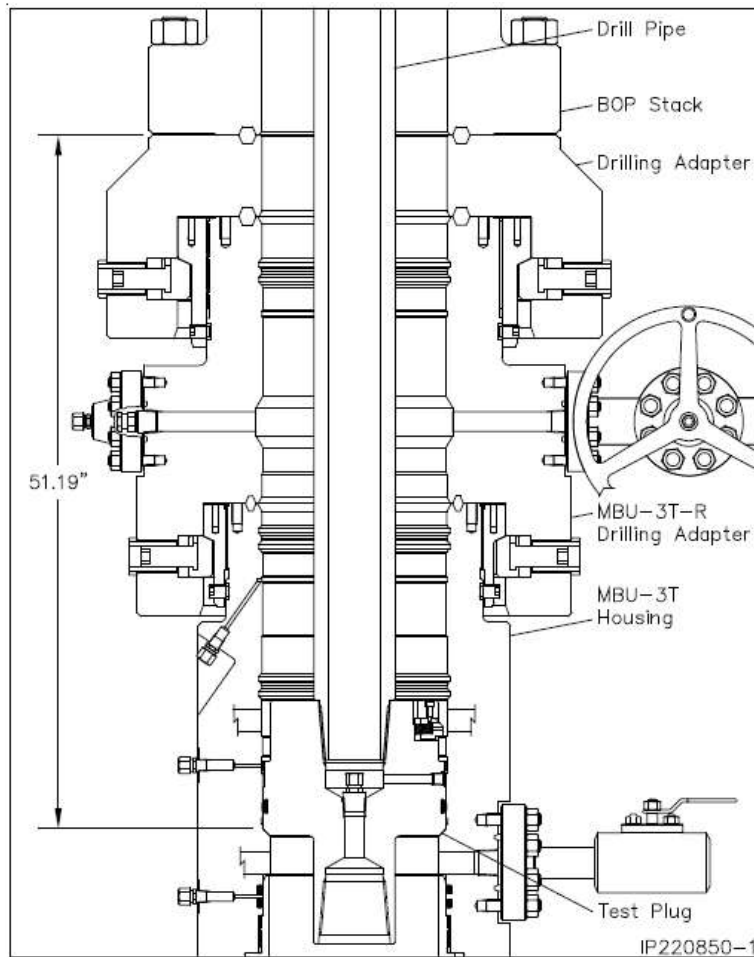


Figure 5. Cactus 5M wellhead with BOP quick connect

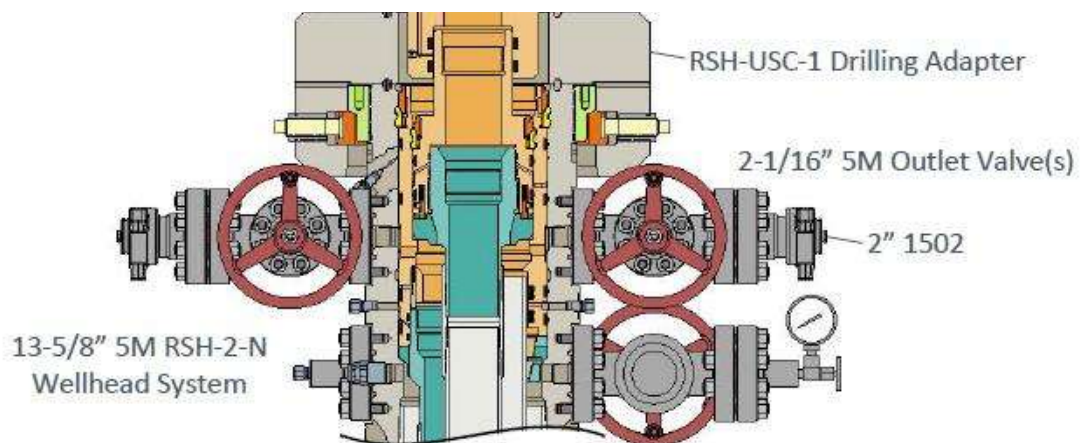


Figure 6. Vault 5M wellhead with BOP quick connect



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

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

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

Surface Casing Order of Operations:

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

Barriers

Before Walk:

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

**After Walk:**

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

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

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

Barriers**Before Walk:**

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

After Walk:

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



Intermediate Casing Order of Operations:

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

Barriers

Before Nipple Down:

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

After Nipple Down:

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

**Risks:**

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

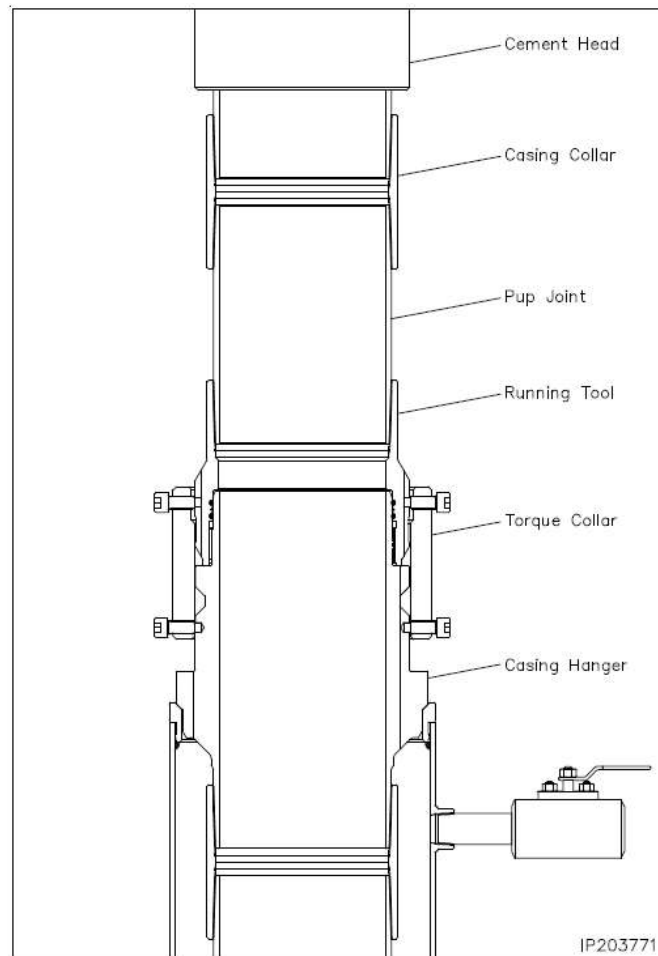


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

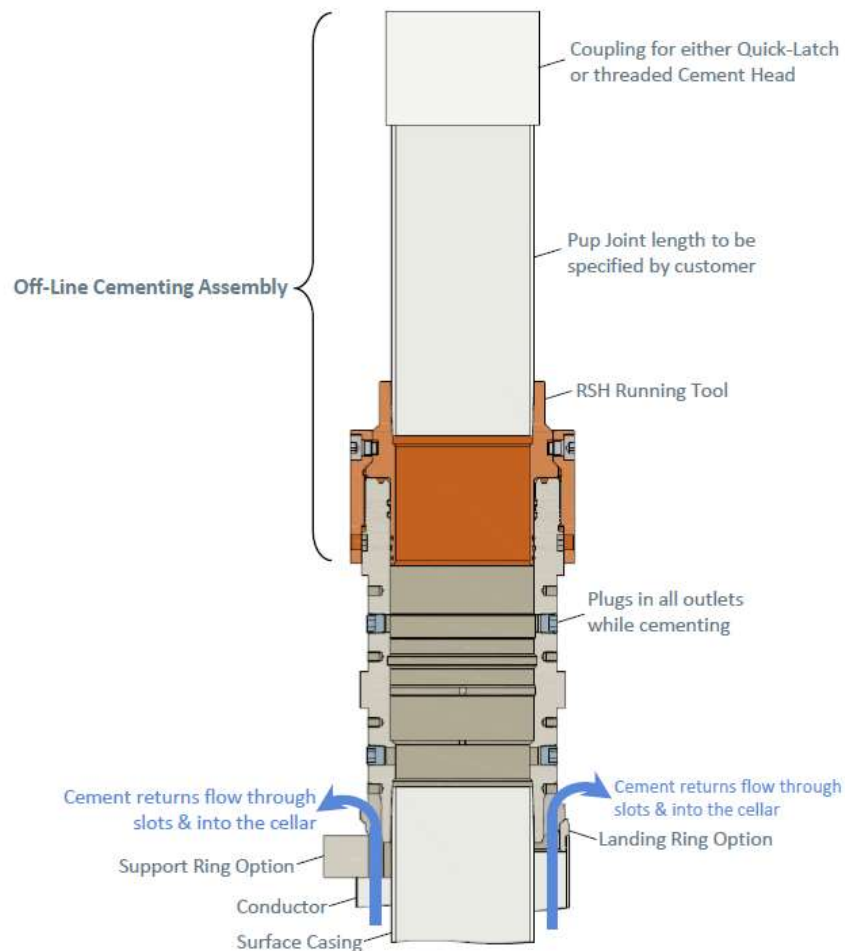


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

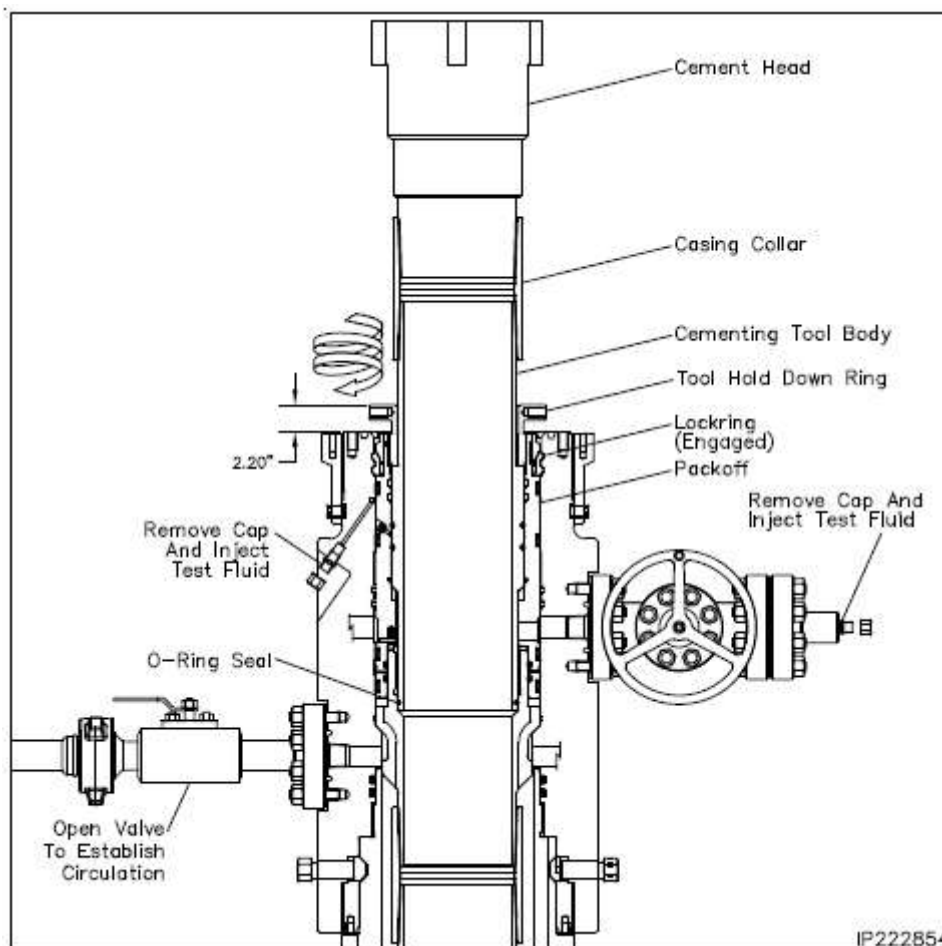


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

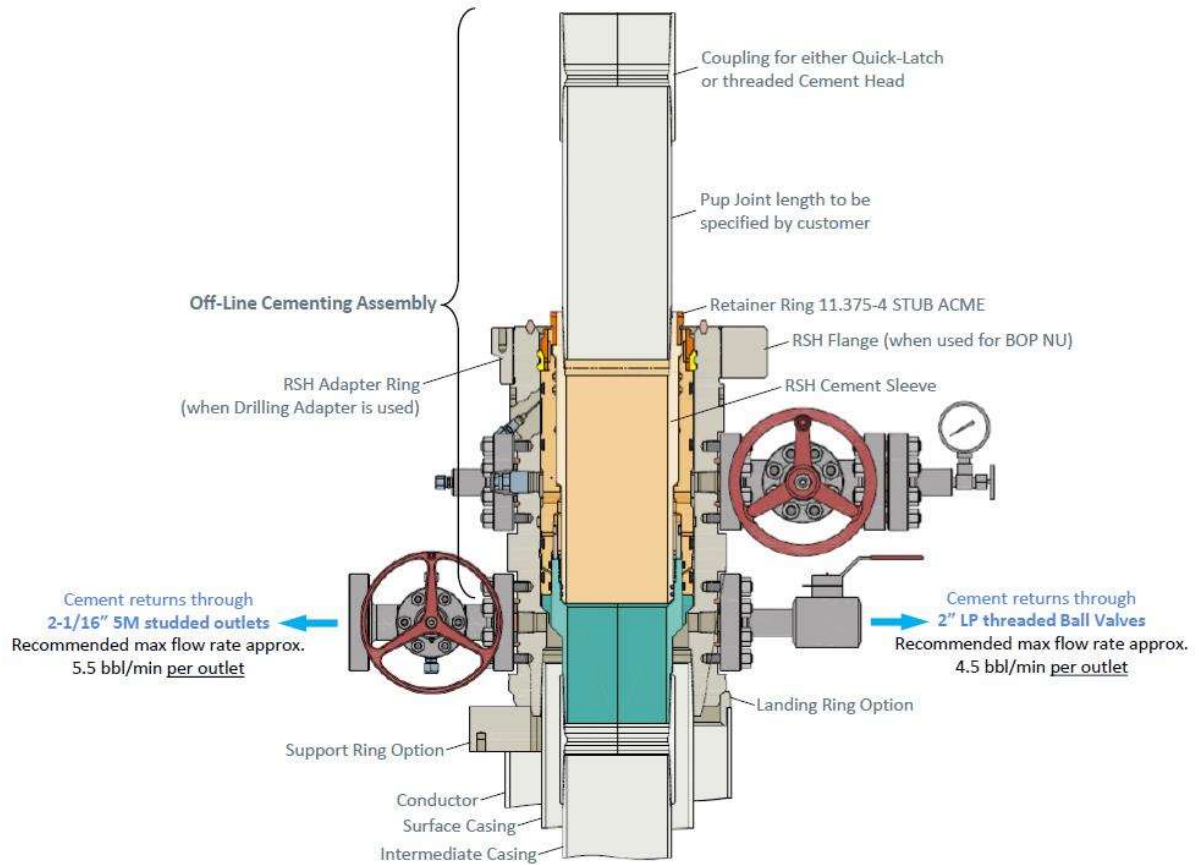


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

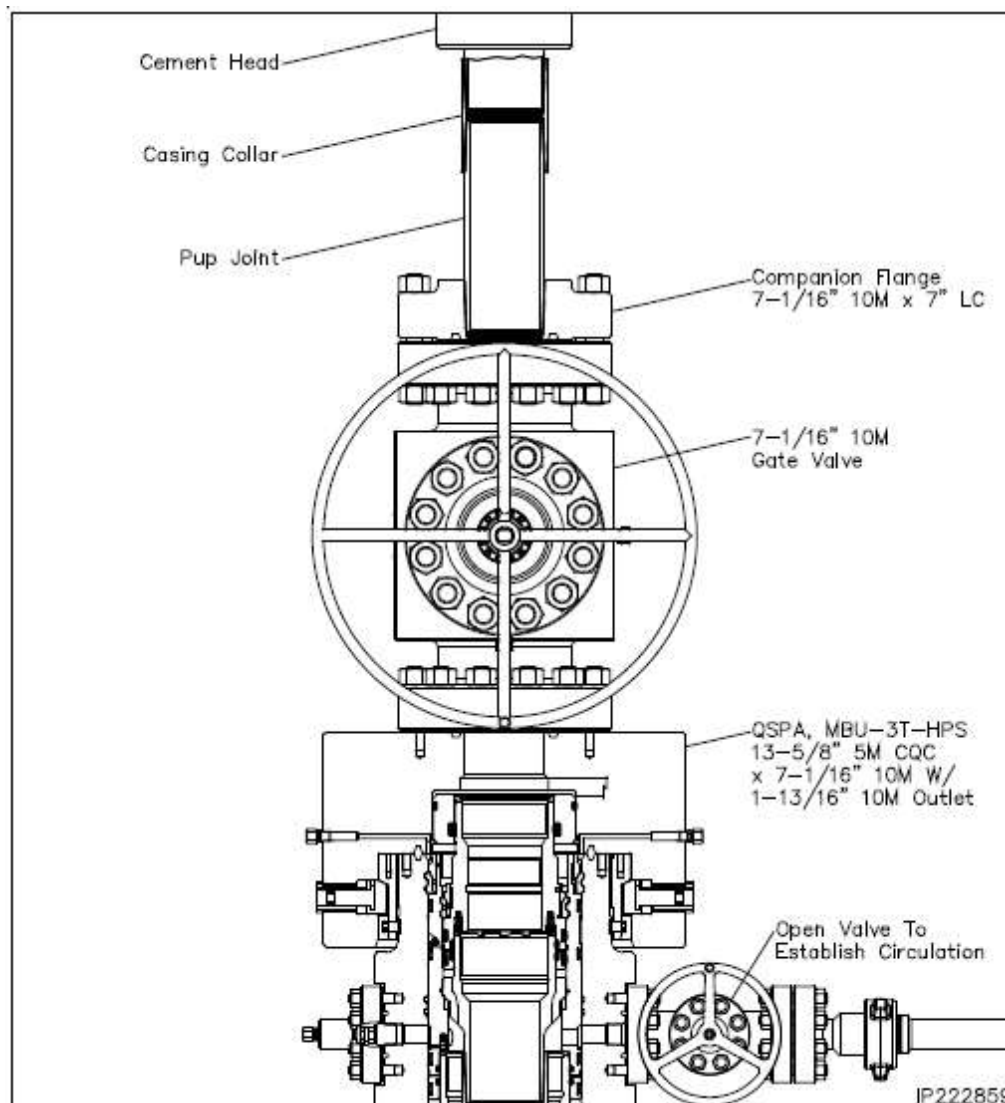


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

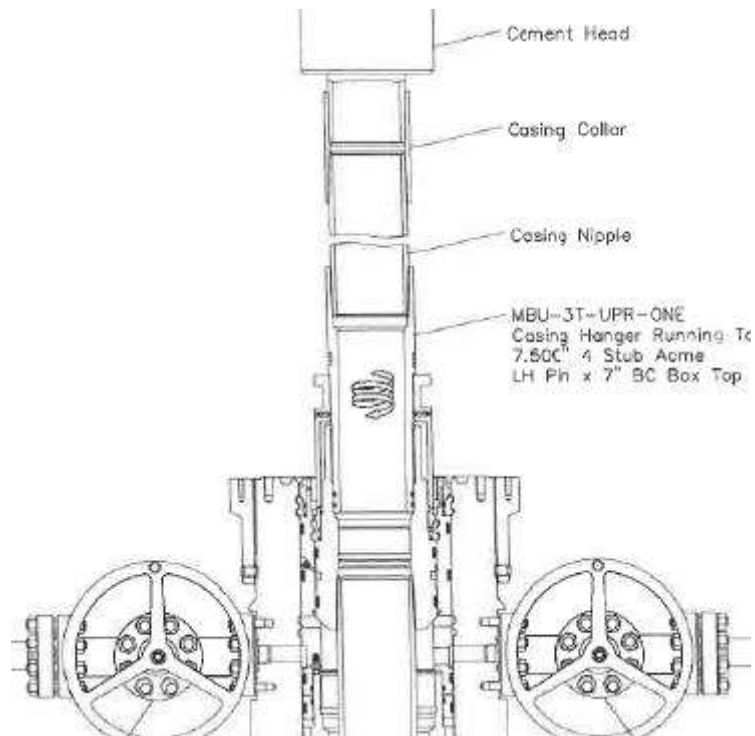


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

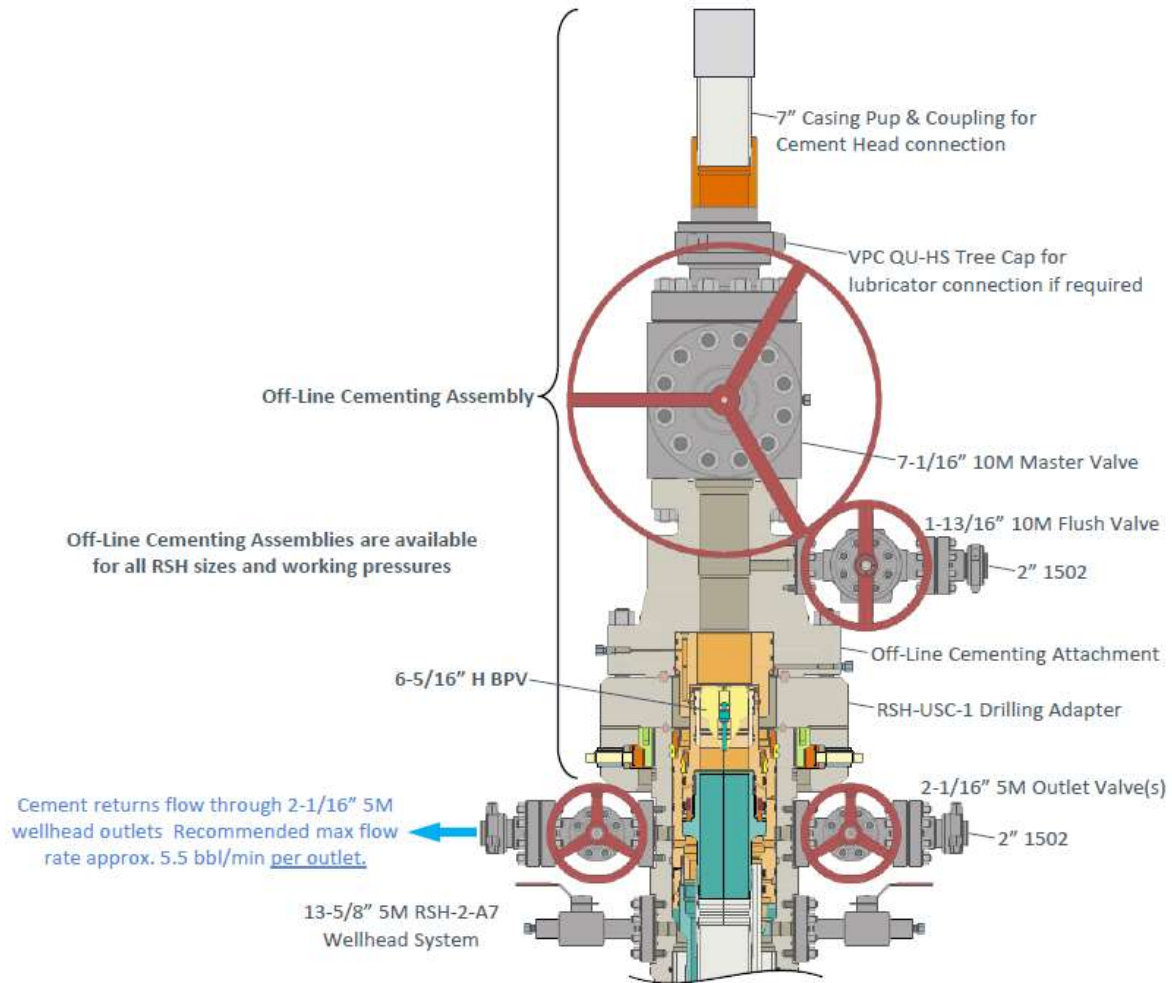


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

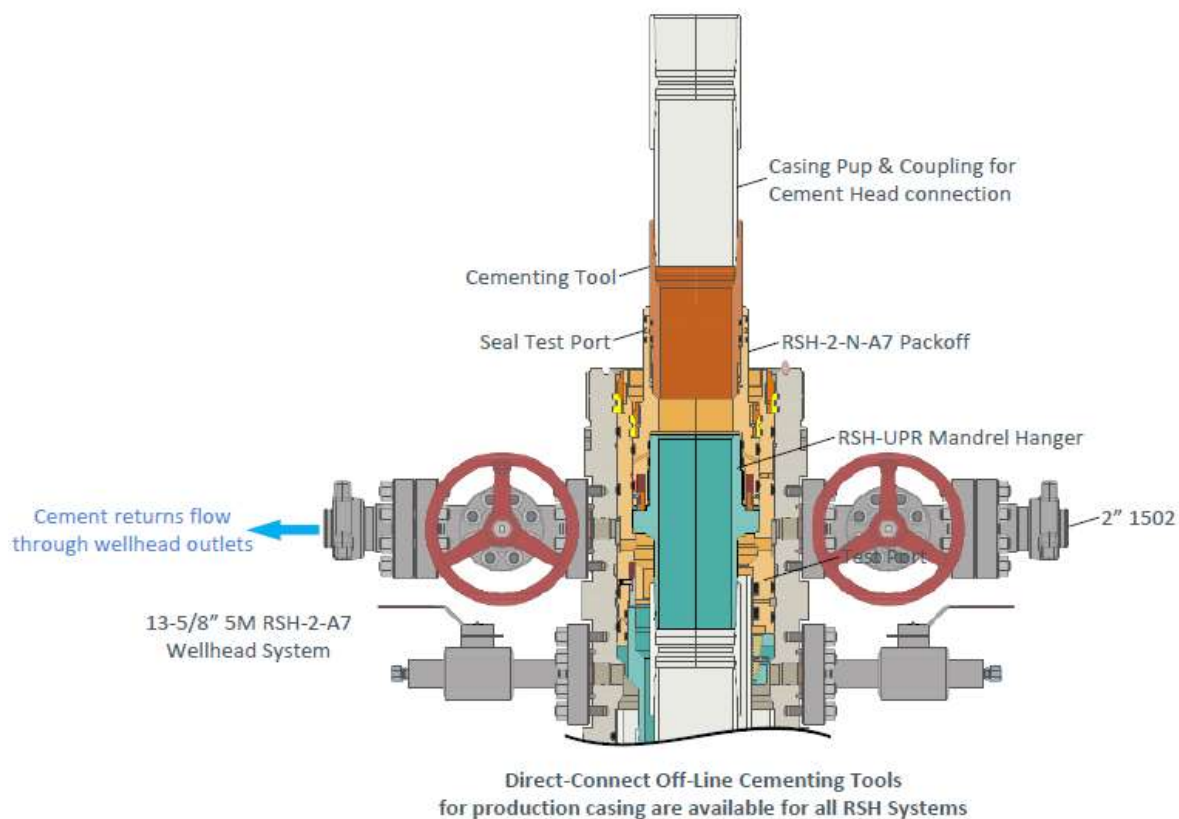


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

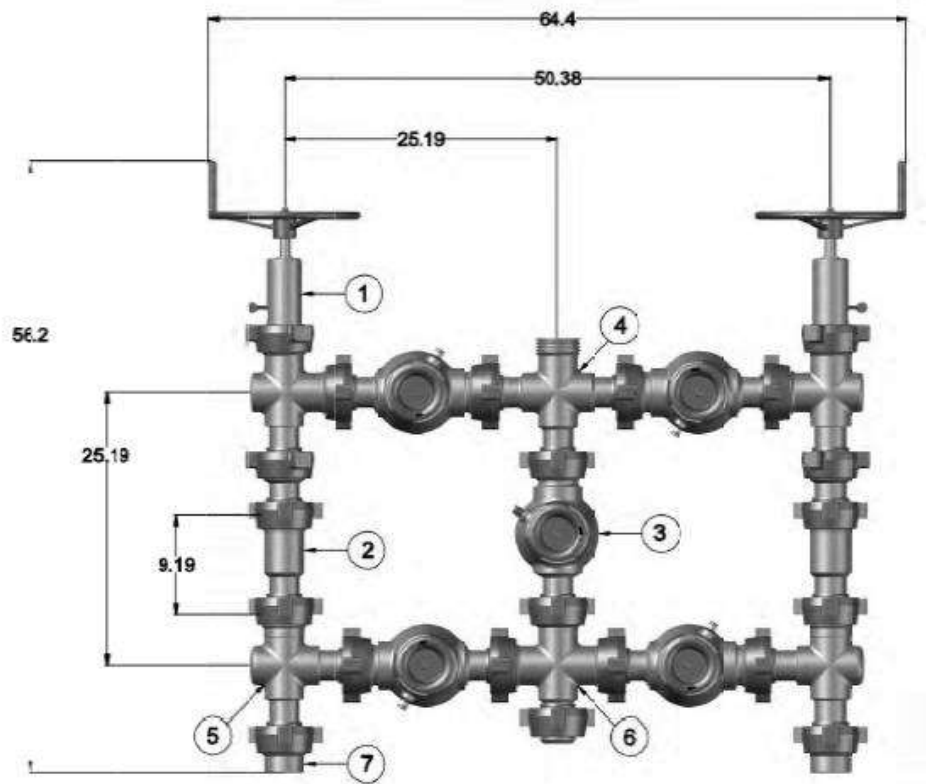


Figure 9. Five valve 15k choke manifold.

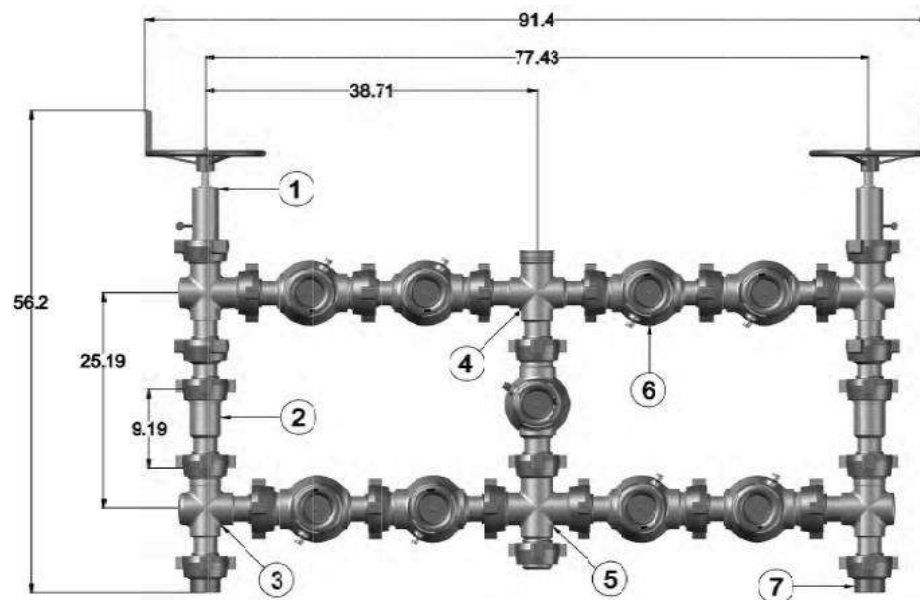


Figure 10. Nine valve 15k choke manifold.

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Texas Toothpick 12/13 B2DM Fed Com #1H

Sec 1, T20S, R30E

SHL: 205' FSL & 1230' FWL (Sec 1)

BHL: 100' FSL & 660' FWL (Sec 13)

Plan: Design #1

Standard Planning Report

24 October, 2022

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Texas Toothpick 12/13 B2DM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Texas Toothpick 12/13 B2DM Fed Com #1H	North Reference:	Grid
Well:	Sec 1, T20S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 660' FWL (Sec 13)		
Design:	Design #1		

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

Site	Texas Toothpick 12/13 B2DM Fed Com #1H				
Site Position:		Northing:	580,654.00 usft	Latitude:	32.5956241
From:	Map	Easting:	665,472.00 usft	Longitude:	-103.9302580
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Sec 1, T20S, R30E					
Well Position	+N/-S	0.0 usft	Northing:	580,654.00 usft	Latitude:	32.5956241
	+E/-W	0.0 usft	Easting:	665,472.00 usft	Longitude:	-103.9302580
Position Uncertainty	0.0 usft		Wellhead Elevation:	3,348.0 usft	Ground Level:	3,320.0 usft
Grid Convergence:	0.22 °					

Wellbore	BHL: 100' FSL & 660' FWL (Sec 13)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.34	60.38	48,421.89945986

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	182.84

Plan Survey Tool Program	Date	10/24/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,439.1	Design #1 (BHL: 100' FSL & 660')	

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	
2,150.0	0.00	0.00	2,150.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,466.4	6.33	295.02	2,465.7	7.4	-15.8	2.00	2.00	0.00	295.02	
7,855.8	6.33	295.02	7,822.3	258.6	-554.0	0.00	0.00	0.00	0.00	
8,172.1	0.00	0.00	8,138.0	266.0	-569.8	2.00	-2.00	0.00	180.00	KOP: 473' FSL & 660'
9,071.1	89.90	179.79	8,711.0	-306.0	-567.7	10.00	10.00	0.00	179.79	
19,439.1	89.90	179.79	8,730.0	-10,673.8	-529.2	0.00	0.00	0.00	0.00	BHL: 100' FSL & 660'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Texas Toothpick 12/13 B2DM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Texas Toothpick 12/13 B2DM Fed Com #1H	North Reference:	Grid
Well:	Sec 1, T20S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 660' FWL (Sec 13)		
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: 205' FSL & 1230' FWL (Sec 1)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,150.0	0.00	0.00	2,150.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	1.00	295.02	2,200.0	0.2	-0.4	-0.2	2.00	2.00	0.00
2,300.0	3.00	295.02	2,299.9	1.7	-3.6	-1.5	2.00	2.00	0.00
2,400.0	5.00	295.02	2,399.7	4.6	-9.9	-4.1	2.00	2.00	0.00
2,466.4	6.33	295.02	2,465.7	7.4	-15.8	-6.6	2.00	2.00	0.00
2,500.0	6.33	295.02	2,499.2	8.9	-19.2	-8.0	0.00	0.00	0.00
2,600.0	6.33	295.02	2,598.5	13.6	-29.2	-12.2	0.00	0.00	0.00
2,700.0	6.33	295.02	2,697.9	18.3	-39.1	-16.3	0.00	0.00	0.00
2,800.0	6.33	295.02	2,797.3	22.9	-49.1	-20.5	0.00	0.00	0.00
2,900.0	6.33	295.02	2,896.7	27.6	-59.1	-24.6	0.00	0.00	0.00
3,000.0	6.33	295.02	2,996.1	32.3	-69.1	-28.8	0.00	0.00	0.00
3,100.0	6.33	295.02	3,095.5	36.9	-79.1	-33.0	0.00	0.00	0.00
3,200.0	6.33	295.02	3,194.9	41.6	-89.1	-37.1	0.00	0.00	0.00
3,300.0	6.33	295.02	3,294.3	46.2	-99.1	-41.3	0.00	0.00	0.00
3,400.0	6.33	295.02	3,393.7	50.9	-109.0	-45.4	0.00	0.00	0.00
3,500.0	6.33	295.02	3,493.1	55.6	-119.0	-49.6	0.00	0.00	0.00
3,600.0	6.33	295.02	3,592.5	60.2	-129.0	-53.8	0.00	0.00	0.00
3,700.0	6.33	295.02	3,691.8	64.9	-139.0	-57.9	0.00	0.00	0.00
3,800.0	6.33	295.02	3,791.2	69.5	-149.0	-62.1	0.00	0.00	0.00
3,900.0	6.33	295.02	3,890.6	74.2	-159.0	-66.2	0.00	0.00	0.00
4,000.0	6.33	295.02	3,990.0	78.9	-169.0	-70.4	0.00	0.00	0.00
4,100.0	6.33	295.02	4,089.4	83.5	-178.9	-74.6	0.00	0.00	0.00
4,200.0	6.33	295.02	4,188.8	88.2	-188.9	-78.7	0.00	0.00	0.00
4,300.0	6.33	295.02	4,288.2	92.9	-198.9	-82.9	0.00	0.00	0.00
4,400.0	6.33	295.02	4,387.6	97.5	-208.9	-87.1	0.00	0.00	0.00
4,500.0	6.33	295.02	4,487.0	102.2	-218.9	-91.2	0.00	0.00	0.00
4,600.0	6.33	295.02	4,586.4	106.8	-228.9	-95.4	0.00	0.00	0.00
4,700.0	6.33	295.02	4,685.8	111.5	-238.9	-99.5	0.00	0.00	0.00
4,800.0	6.33	295.02	4,785.1	116.2	-248.9	-103.7	0.00	0.00	0.00
4,900.0	6.33	295.02	4,884.5	120.8	-258.8	-107.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Texas Toothpick 12/13 B2DM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Texas Toothpick 12/13 B2DM Fed Com #1H	North Reference:	Grid
Well:	Sec 1, T20S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 660' FWL (Sec 13)		
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)	
5,000.0	6.33	295.02	4,983.9	125.5	-268.8	-112.0	0.00	0.00	0.00	
5,100.0	6.33	295.02	5,083.3	130.1	-278.8	-116.2	0.00	0.00	0.00	
5,200.0	6.33	295.02	5,182.7	134.8	-288.8	-120.3	0.00	0.00	0.00	
5,300.0	6.33	295.02	5,282.1	139.5	-298.8	-124.5	0.00	0.00	0.00	
5,400.0	6.33	295.02	5,381.5	144.1	-308.8	-128.7	0.00	0.00	0.00	
5,500.0	6.33	295.02	5,480.9	148.8	-318.8	-132.8	0.00	0.00	0.00	
5,600.0	6.33	295.02	5,580.3	153.5	-328.7	-137.0	0.00	0.00	0.00	
5,700.0	6.33	295.02	5,679.7	158.1	-338.7	-141.2	0.00	0.00	0.00	
5,800.0	6.33	295.02	5,779.1	162.8	-348.7	-145.3	0.00	0.00	0.00	
5,900.0	6.33	295.02	5,878.4	167.4	-358.7	-149.5	0.00	0.00	0.00	
6,000.0	6.33	295.02	5,977.8	172.1	-368.7	-153.6	0.00	0.00	0.00	
6,100.0	6.33	295.02	6,077.2	176.8	-378.7	-157.8	0.00	0.00	0.00	
6,200.0	6.33	295.02	6,176.6	181.4	-388.7	-162.0	0.00	0.00	0.00	
6,300.0	6.33	295.02	6,276.0	186.1	-398.6	-166.1	0.00	0.00	0.00	
6,400.0	6.33	295.02	6,375.4	190.7	-408.6	-170.3	0.00	0.00	0.00	
6,500.0	6.33	295.02	6,474.8	195.4	-418.6	-174.4	0.00	0.00	0.00	
6,600.0	6.33	295.02	6,574.2	200.1	-428.6	-178.6	0.00	0.00	0.00	
6,700.0	6.33	295.02	6,673.6	204.7	-438.6	-182.8	0.00	0.00	0.00	
6,800.0	6.33	295.02	6,773.0	209.4	-448.6	-186.9	0.00	0.00	0.00	
6,900.0	6.33	295.02	6,872.4	214.1	-458.6	-191.1	0.00	0.00	0.00	
7,000.0	6.33	295.02	6,971.7	218.7	-468.5	-195.2	0.00	0.00	0.00	
7,100.0	6.33	295.02	7,071.1	223.4	-478.5	-199.4	0.00	0.00	0.00	
7,200.0	6.33	295.02	7,170.5	228.0	-488.5	-203.6	0.00	0.00	0.00	
7,300.0	6.33	295.02	7,269.9	232.7	-498.5	-207.7	0.00	0.00	0.00	
7,400.0	6.33	295.02	7,369.3	237.4	-508.5	-211.9	0.00	0.00	0.00	
7,500.0	6.33	295.02	7,468.7	242.0	-518.5	-216.1	0.00	0.00	0.00	
7,600.0	6.33	295.02	7,568.1	246.7	-528.5	-220.2	0.00	0.00	0.00	
7,700.0	6.33	295.02	7,667.5	251.3	-538.4	-224.4	0.00	0.00	0.00	
7,800.0	6.33	295.02	7,766.9	256.0	-548.4	-228.5	0.00	0.00	0.00	
7,855.8	6.33	295.02	7,822.3	258.6	-554.0	-230.9	0.00	0.00	0.00	
7,900.0	5.44	295.02	7,866.3	260.5	-558.1	-232.6	2.00	-2.00	0.00	
8,000.0	3.44	295.02	7,966.0	263.8	-565.1	-235.5	2.00	-2.00	0.00	
8,100.0	1.44	295.02	8,065.9	265.6	-569.0	-237.1	2.00	-2.00	0.00	
8,172.1	0.00	0.00	8,138.0	266.0	-569.8	-237.4	2.00	-2.00	0.00	
KOP: 473' FSL & 660' FWL (Sec 1)										
8,200.0	2.79	179.79	8,165.9	265.3	-569.8	-236.8	10.00	10.00	0.00	
8,250.0	7.79	179.79	8,215.6	260.7	-569.8	-232.2	10.00	10.00	0.00	
8,300.0	12.79	179.79	8,264.8	251.8	-569.8	-223.3	10.00	10.00	0.00	
8,350.0	17.79	179.79	8,313.0	238.6	-569.7	-210.1	10.00	10.00	0.00	
8,400.0	22.79	179.79	8,359.9	221.3	-569.6	-192.8	10.00	10.00	0.00	
8,450.0	27.79	179.79	8,405.1	199.9	-569.6	-171.5	10.00	10.00	0.00	
8,500.0	32.79	179.79	8,448.3	174.7	-569.5	-146.3	10.00	10.00	0.00	
8,550.0	37.79	179.79	8,489.1	145.8	-569.4	-117.5	10.00	10.00	0.00	
8,600.0	42.79	179.79	8,527.2	113.5	-569.2	-85.2	10.00	10.00	0.00	
8,650.0	47.79	179.79	8,562.4	78.0	-569.1	-49.7	10.00	10.00	0.00	
8,700.0	52.78	179.79	8,594.3	39.5	-569.0	-11.3	10.00	10.00	0.00	
8,750.0	57.78	179.79	8,622.8	-1.5	-568.8	29.7	10.00	10.00	0.00	
8,800.0	62.78	179.79	8,647.6	-44.9	-568.7	73.1	10.00	10.00	0.00	
8,850.0	67.78	179.79	8,668.5	-90.4	-568.5	118.4	10.00	10.00	0.00	
8,900.0	72.78	179.79	8,685.3	-137.4	-568.3	165.4	10.00	10.00	0.00	
8,950.0	77.78	179.79	8,698.0	-185.8	-568.1	213.7	10.00	10.00	0.00	
9,000.0	82.78	179.79	8,706.5	-235.0	-568.0	262.9	10.00	10.00	0.00	
9,050.0	87.78	179.79	8,710.6	-284.8	-567.8	312.6	10.00	10.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Texas Toothpick 12/13 B2DM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Texas Toothpick 12/13 B2DM Fed Com #1H	North Reference:	Grid
Well:	Sec 1, T20S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 660' FWL (Sec 13)		
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)
9,071.1	89.90	179.79	8,711.0	-306.0	-567.7	333.7	10.00	10.00	0.00
9,072.2	89.90	179.79	8,711.0	-307.0	-567.7	334.7	0.00	0.00	0.00
FTP/LP: 100' FNL & 660' FWL (Sec 12)									
9,100.0	89.90	179.79	8,711.1	-334.8	-567.6	362.5	0.00	0.00	0.00
9,200.0	89.90	179.79	8,711.2	-434.8	-567.2	462.4	0.00	0.00	0.00
9,300.0	89.90	179.79	8,711.4	-534.8	-566.8	562.2	0.00	0.00	0.00
9,400.0	89.90	179.79	8,711.6	-634.8	-566.5	662.1	0.00	0.00	0.00
9,500.0	89.90	179.79	8,711.8	-734.8	-566.1	762.0	0.00	0.00	0.00
9,600.0	89.90	179.79	8,712.0	-834.8	-565.7	861.8	0.00	0.00	0.00
9,700.0	89.90	179.79	8,712.2	-934.8	-565.4	961.7	0.00	0.00	0.00
9,800.0	89.90	179.79	8,712.3	-1,034.8	-565.0	1,061.5	0.00	0.00	0.00
9,900.0	89.90	179.79	8,712.5	-1,134.8	-564.6	1,161.4	0.00	0.00	0.00
10,000.0	89.90	179.79	8,712.7	-1,234.8	-564.2	1,261.2	0.00	0.00	0.00
10,100.0	89.90	179.79	8,712.9	-1,334.8	-563.9	1,361.1	0.00	0.00	0.00
10,200.0	89.90	179.79	8,713.1	-1,434.8	-563.5	1,461.0	0.00	0.00	0.00
10,300.0	89.90	179.79	8,713.3	-1,534.8	-563.1	1,560.8	0.00	0.00	0.00
10,400.0	89.90	179.79	8,713.4	-1,634.8	-562.8	1,660.7	0.00	0.00	0.00
10,500.0	89.90	179.79	8,713.6	-1,734.8	-562.4	1,760.5	0.00	0.00	0.00
10,600.0	89.90	179.79	8,713.8	-1,834.8	-562.0	1,860.4	0.00	0.00	0.00
10,700.0	89.90	179.79	8,714.0	-1,934.8	-561.6	1,960.3	0.00	0.00	0.00
10,800.0	89.90	179.79	8,714.2	-2,034.8	-561.3	2,060.1	0.00	0.00	0.00
10,900.0	89.90	179.79	8,714.4	-2,134.8	-560.9	2,160.0	0.00	0.00	0.00
11,000.0	89.90	179.79	8,714.5	-2,234.8	-560.5	2,259.8	0.00	0.00	0.00
11,100.0	89.90	179.79	8,714.7	-2,334.8	-560.2	2,359.7	0.00	0.00	0.00
11,200.0	89.90	179.79	8,714.9	-2,434.8	-559.8	2,459.5	0.00	0.00	0.00
11,300.0	89.90	179.79	8,715.1	-2,534.8	-559.4	2,559.4	0.00	0.00	0.00
11,400.0	89.90	179.79	8,715.3	-2,634.8	-559.0	2,659.3	0.00	0.00	0.00
11,500.0	89.90	179.79	8,715.5	-2,734.8	-558.7	2,759.1	0.00	0.00	0.00
11,600.0	89.90	179.79	8,715.6	-2,834.8	-558.3	2,859.0	0.00	0.00	0.00
11,618.6	89.90	179.79	8,715.7	-2,853.4	-558.2	2,877.5	0.00	0.00	0.00
PPP2: 2646' FNL & 660' FWL (Sec 12)									
11,700.0	89.90	179.79	8,715.8	-2,934.8	-557.9	2,958.8	0.00	0.00	0.00
11,800.0	89.90	179.79	8,716.0	-3,034.8	-557.6	3,058.7	0.00	0.00	0.00
11,900.0	89.90	179.79	8,716.2	-3,134.8	-557.2	3,158.5	0.00	0.00	0.00
12,000.0	89.90	179.79	8,716.4	-3,234.8	-556.8	3,258.4	0.00	0.00	0.00
12,100.0	89.90	179.79	8,716.6	-3,334.8	-556.4	3,358.3	0.00	0.00	0.00
12,200.0	89.90	179.79	8,716.7	-3,434.8	-556.1	3,458.1	0.00	0.00	0.00
12,300.0	89.90	179.79	8,716.9	-3,534.8	-555.7	3,558.0	0.00	0.00	0.00
12,400.0	89.90	179.79	8,717.1	-3,634.8	-555.3	3,657.8	0.00	0.00	0.00
12,500.0	89.90	179.79	8,717.3	-3,734.8	-555.0	3,757.7	0.00	0.00	0.00
12,600.0	89.90	179.79	8,717.5	-3,834.8	-554.6	3,857.6	0.00	0.00	0.00
12,700.0	89.90	179.79	8,717.7	-3,934.8	-554.2	3,957.4	0.00	0.00	0.00
12,800.0	89.90	179.79	8,717.8	-4,034.8	-553.8	4,057.3	0.00	0.00	0.00
12,900.0	89.90	179.79	8,718.0	-4,134.8	-553.5	4,157.1	0.00	0.00	0.00
12,944.1	89.90	179.79	8,718.1	-4,178.9	-553.3	4,201.2	0.00	0.00	0.00
PPP3: 1321' FSL & 660' FWL (Sec 12)									
13,000.0	89.90	179.79	8,718.2	-4,234.8	-553.1	4,257.0	0.00	0.00	0.00
13,100.0	89.90	179.79	8,718.4	-4,334.8	-552.7	4,356.8	0.00	0.00	0.00
13,200.0	89.90	179.79	8,718.6	-4,434.8	-552.4	4,456.7	0.00	0.00	0.00
13,300.0	89.90	179.79	8,718.7	-4,534.8	-552.0	4,556.6	0.00	0.00	0.00
13,400.0	89.90	179.79	8,718.9	-4,634.8	-551.6	4,656.4	0.00	0.00	0.00
13,500.0	89.90	179.79	8,719.1	-4,734.8	-551.2	4,756.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Texas Toothpick 12/13 B2DM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Texas Toothpick 12/13 B2DM Fed Com #1H	North Reference:	Grid
Well:	Sec 1, T20S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 660' FWL (Sec 13)		
Design:	Design #1		

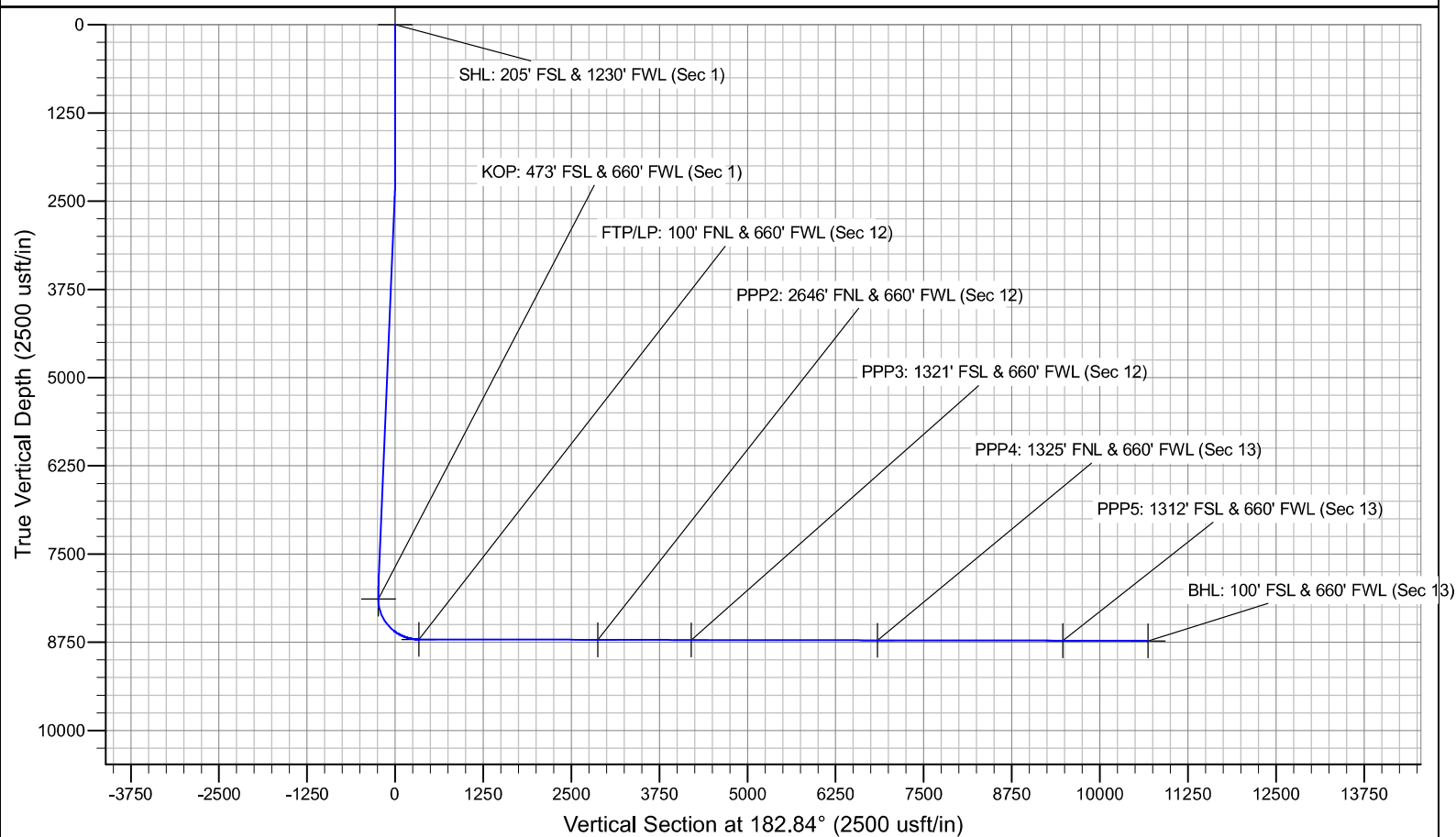
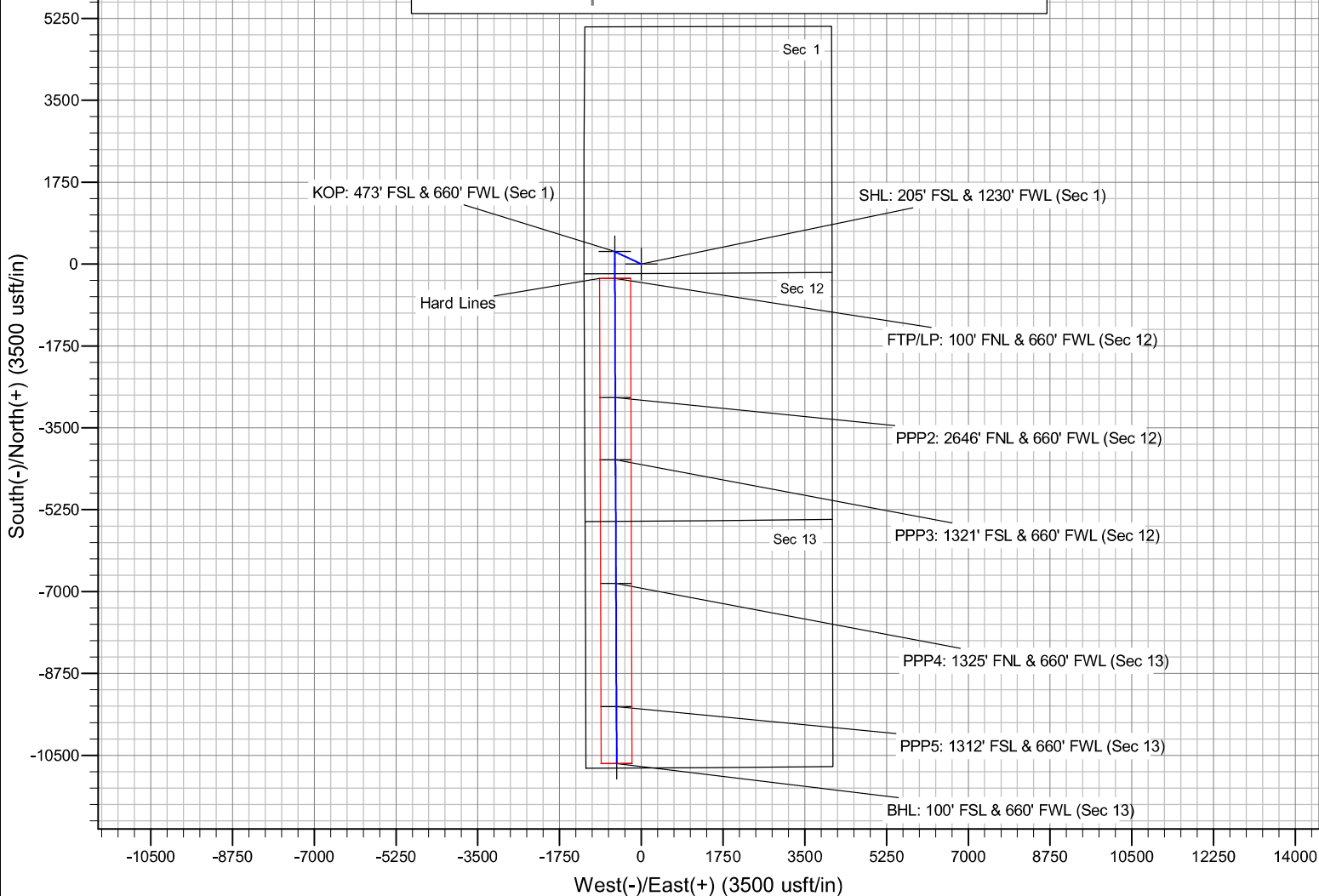
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,600.0	89.90	179.79	8,719.3	-4,834.8	-550.9	4,856.1	0.00	0.00	0.00	
13,700.0	89.90	179.79	8,719.5	-4,934.8	-550.5	4,956.0	0.00	0.00	0.00	
13,800.0	89.90	179.79	8,719.7	-5,034.8	-550.1	5,055.9	0.00	0.00	0.00	
13,900.0	89.90	179.79	8,719.8	-5,134.8	-549.8	5,155.7	0.00	0.00	0.00	
14,000.0	89.90	179.79	8,720.0	-5,234.8	-549.4	5,255.6	0.00	0.00	0.00	
14,100.0	89.90	179.79	8,720.2	-5,334.8	-549.0	5,355.4	0.00	0.00	0.00	
14,200.0	89.90	179.79	8,720.4	-5,434.8	-548.7	5,455.3	0.00	0.00	0.00	
14,300.0	89.90	179.79	8,720.6	-5,534.8	-548.3	5,555.1	0.00	0.00	0.00	
14,400.0	89.90	179.79	8,720.8	-5,634.8	-547.9	5,655.0	0.00	0.00	0.00	
14,500.0	89.90	179.79	8,720.9	-5,734.8	-547.5	5,754.9	0.00	0.00	0.00	
14,600.0	89.90	179.79	8,721.1	-5,834.8	-547.2	5,854.7	0.00	0.00	0.00	
14,700.0	89.90	179.79	8,721.3	-5,934.8	-546.8	5,954.6	0.00	0.00	0.00	
14,800.0	89.90	179.79	8,721.5	-6,034.8	-546.4	6,054.4	0.00	0.00	0.00	
14,900.0	89.90	179.79	8,721.7	-6,134.8	-546.1	6,154.3	0.00	0.00	0.00	
15,000.0	89.90	179.79	8,721.9	-6,234.8	-545.7	6,254.1	0.00	0.00	0.00	
15,100.0	89.90	179.79	8,722.0	-6,334.8	-545.3	6,354.0	0.00	0.00	0.00	
15,200.0	89.90	179.79	8,722.2	-6,434.8	-544.9	6,453.9	0.00	0.00	0.00	
15,300.0	89.90	179.79	8,722.4	-6,534.8	-544.6	6,553.7	0.00	0.00	0.00	
15,400.0	89.90	179.79	8,722.6	-6,634.8	-544.2	6,653.6	0.00	0.00	0.00	
15,500.0	89.90	179.79	8,722.8	-6,734.8	-543.8	6,753.4	0.00	0.00	0.00	
15,589.9	89.90	179.79	8,722.9	-6,824.7	-543.5	6,843.2	0.00	0.00	0.00	
PPP4: 1325' FNL & 660' FWL (Sec 13)										
15,600.0	89.90	179.79	8,723.0	-6,834.8	-543.5	6,853.3	0.00	0.00	0.00	
15,700.0	89.90	179.79	8,723.1	-6,934.8	-543.1	6,953.2	0.00	0.00	0.00	
15,800.0	89.90	179.79	8,723.3	-7,034.8	-542.7	7,053.0	0.00	0.00	0.00	
15,900.0	89.90	179.79	8,723.5	-7,134.8	-542.3	7,152.9	0.00	0.00	0.00	
16,000.0	89.90	179.79	8,723.7	-7,234.8	-542.0	7,252.7	0.00	0.00	0.00	
16,100.0	89.90	179.79	8,723.9	-7,334.8	-541.6	7,352.6	0.00	0.00	0.00	
16,200.0	89.90	179.79	8,724.1	-7,434.8	-541.2	7,452.4	0.00	0.00	0.00	
16,300.0	89.90	179.79	8,724.2	-7,534.8	-540.9	7,552.3	0.00	0.00	0.00	
16,400.0	89.90	179.79	8,724.4	-7,634.8	-540.5	7,652.2	0.00	0.00	0.00	
16,500.0	89.90	179.79	8,724.6	-7,734.8	-540.1	7,752.0	0.00	0.00	0.00	
16,600.0	89.90	179.79	8,724.8	-7,834.8	-539.7	7,851.9	0.00	0.00	0.00	
16,700.0	89.90	179.79	8,725.0	-7,934.8	-539.4	7,951.7	0.00	0.00	0.00	
16,800.0	89.90	179.79	8,725.2	-8,034.8	-539.0	8,051.6	0.00	0.00	0.00	
16,900.0	89.90	179.79	8,725.3	-8,134.8	-538.6	8,151.5	0.00	0.00	0.00	
17,000.0	89.90	179.79	8,725.5	-8,234.8	-538.3	8,251.3	0.00	0.00	0.00	
17,100.0	89.90	179.79	8,725.7	-8,334.8	-537.9	8,351.2	0.00	0.00	0.00	
17,200.0	89.90	179.79	8,725.9	-8,434.8	-537.5	8,451.0	0.00	0.00	0.00	
17,300.0	89.90	179.79	8,726.1	-8,534.8	-537.1	8,550.9	0.00	0.00	0.00	
17,400.0	89.90	179.79	8,726.3	-8,634.8	-536.8	8,650.7	0.00	0.00	0.00	
17,500.0	89.90	179.79	8,726.4	-8,734.8	-536.4	8,750.6	0.00	0.00	0.00	
17,600.0	89.90	179.79	8,726.6	-8,834.8	-536.0	8,850.5	0.00	0.00	0.00	
17,700.0	89.90	179.79	8,726.8	-8,934.8	-535.7	8,950.3	0.00	0.00	0.00	
17,800.0	89.90	179.79	8,727.0	-9,034.8	-535.3	9,050.2	0.00	0.00	0.00	
17,900.0	89.90	179.79	8,727.2	-9,134.8	-534.9	9,150.0	0.00	0.00	0.00	
18,000.0	89.90	179.79	8,727.4	-9,234.7	-534.5	9,249.9	0.00	0.00	0.00	
18,100.0	89.90	179.79	8,727.5	-9,334.7	-534.2	9,349.7	0.00	0.00	0.00	
18,200.0	89.90	179.79	8,727.7	-9,434.7	-533.8	9,449.6	0.00	0.00	0.00	
18,226.6	89.90	179.79	8,727.8	-9,461.4	-533.7	9,476.2	0.00	0.00	0.00	
PPP5: 1312' FSL & 660' FWL (Sec 13)										
18,300.0	89.90	179.79	8,727.9	-9,534.7	-533.4	9,549.5	0.00	0.00	0.00	
18,400.0	89.90	179.79	8,728.1	-9,634.7	-533.1	9,649.3	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Texas Toothpick 12/13 B2DM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Texas Toothpick 12/13 B2DM Fed Com #1H	North Reference:	Grid
Well:	Sec 1, T20S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 660' FWL (Sec 13)		
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)	
18,500.0	89.90	179.79	8,728.3	-9,734.7	-532.7	9,749.2	0.00	0.00	0.00	
18,600.0	89.90	179.79	8,728.5	-9,834.7	-532.3	9,849.0	0.00	0.00	0.00	
18,700.0	89.90	179.79	8,728.6	-9,934.7	-531.9	9,948.9	0.00	0.00	0.00	
18,800.0	89.90	179.79	8,728.8	-10,034.7	-531.6	10,048.8	0.00	0.00	0.00	
18,900.0	89.90	179.79	8,729.0	-10,134.7	-531.2	10,148.6	0.00	0.00	0.00	
19,000.0	89.90	179.79	8,729.2	-10,234.7	-530.8	10,248.5	0.00	0.00	0.00	
19,100.0	89.90	179.79	8,729.4	-10,334.7	-530.5	10,348.3	0.00	0.00	0.00	
19,200.0	89.90	179.79	8,729.6	-10,434.7	-530.1	10,448.2	0.00	0.00	0.00	
19,300.0	89.90	179.79	8,729.7	-10,534.7	-529.7	10,548.0	0.00	0.00	0.00	
19,400.0	89.90	179.79	8,729.9	-10,634.7	-529.3	10,647.9	0.00	0.00	0.00	
19,439.1	89.90	179.79	8,730.0	-10,673.8	-529.2	10,686.9	0.00	0.00	0.00	
BHL: 100' FSL & 660' FWL (Sec 13)										

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: 205' FSL & 1230' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	580,654.00	665,472.00	32.5956241	-103.9302580	
KOP: 473' FSL & 660' Fv - plan hits target center - Point	0.00	0.00	8,138.0	266.0	-569.8	580,919.99	664,902.19	32.5963612	-103.9321049	
FTP/LP: 100' FNL & 660 - plan hits target center - Point	0.00	0.00	8,711.0	-307.0	-567.7	580,346.99	664,904.32	32.5947861	-103.9321050	
PPP2: 2646' FNL & 660' - plan hits target center - Point	0.00	0.00	8,715.7	-2,853.4	-558.2	577,800.64	664,913.77	32.5877869	-103.9321055	
PPP3: 1321' FSL & 660' - plan hits target center - Point	0.00	0.00	8,718.1	-4,178.9	-553.3	576,475.09	664,918.69	32.5841434	-103.9321058	
PPP4: 1325' FNL & 660' - plan hits target center - Point	0.00	0.00	8,722.9	-6,824.7	-543.5	573,829.35	664,928.51	32.5768710	-103.9321063	
PPP5: 1312' FSL & 660' - plan hits target center - Point	0.00	0.00	8,727.8	-9,461.4	-533.7	571,192.62	664,938.30	32.5696233	-103.9321068	
BHL: 100' FSL & 660' Fv - plan hits target center - Point	0.00	0.00	8,730.0	-10,673.8	-529.2	569,980.20	664,942.80	32.5662907	-103.9321070	



Operator Name: Mewbourne Oil Company	Property Name: Texas Toothpick 12/13 B2DM Fed Com	Well Number 1H
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Kick Off Point (KOP)

UL M	Section 1	Township 20S	Range 30E	Lot	Feet 473	From N/S S	Feet 660	From E/W W	County Eddy
Latitude 32.5963612					Longitude -103.9321049			NAD 83	

First Take Point (FTP)

UL D	Section 12	Township 20S	Range 30E	Lot	Feet 100	From N/S N	Feet 660	From E/W W	County Eddy
Latitude 32.5947861					Longitude -103.9321050			NAD 83	

Last Take Point (LTP)

UL M	Section 13	Township 20S	Range 30E	Lot	Feet 100	From N/S S	Feet 660	From E/W W	County Eddy
Latitude 32.5662907					Longitude -103.9321070			NAD 83	

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

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	TEXAS TOOTH PICK 12/13 B2DM FED COM 1H
APD ID:	10400089261
LOCATION:	Section 1, T20S, R30E. NMP.
COUNTY:	Eddy County, New Mexico ▼

COA

H ₂ S	☐ No ☒ Yes			
Potash / WIPP	☐ None	☐ Secretary	☒ R-111-Q	☐ Open Annulus 4-String Design: Open 2nd Int x Production Casing (ICP 2 above Relief Zone) ☐ 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	☐ Casing Clearance	☐ Pilot Hole	☒ Break Testing
	☒ Four-String	☒ Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

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

APD is within the R-111-Q defined boundary. Operator must follow all applicable procedures and requirements listed within the Order No. R-111-Q.

B. CASING

Note: The approval has only been granted for the primary casing program at this time.

1. The **18-5/8-inch** surface casing shall be set at approximately **420 ft.** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the

cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **13-3/8 inch 1st** intermediate casing shall be set in a competent bed at approximately **2,100 ft.** The minimum required fill of cement behind the **13-3/8 inch** intermediate casing is:
- **Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, Capitan Reef, and Potash.**

Note: the 2nd intermediate casing set depth was adjusted per BLM geologist recommendation. *"The operator proposes to set second intermediate casing at 3,800 feet, BLM accepts 3,600 feet the base of the Capitan Reef APD well casing set depth and rock type."*

3. The **9-5/8 inch 2nd** intermediate casing shall be set in a competent bed at approximately **3,600 ft.** The minimum required fill of cement behind the **9-5/8 inch** intermediate casing is:

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

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, Capitan Reef, and Potash.**

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

4. Operator has proposed to set 7" production casing at approximately **8,172 ft.** (8,138 ft. TVD). The minimum required fill of cement behind the **7 inch** production casing is:
- Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.

- a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, Capitan Reef, and Potash**.

Note: In the first stage, Zero percent excess shall be pumped on the production cementing slurry to ensure no tie-back into the 2nd intermediate casing shoe.

- b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back **at least 500 ft. into the 2nd intermediate casing and below the Marker Bed 126**. If cement does not circulate, the appropriate BLM office shall be notified.
- ❖ Operator must run a cement evaluation tool (fluid shot tool, Temperature log or CBL, etc.) to verify TOC after the second stage bradenhead. Submit the results to the BLM. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.
 - ❖ A monitored open annulus will be incorporated during completion by leaving the 2nd Intermediate Casing x Production Casing annulus un-cemented and monitored inside the 2nd Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.
5. The minimum required fill of cement behind the **4-1/2** inch production liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Eddy County: 575-361-2822**.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**. Before drilling the surface casing shoe out, the BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172 and API Standard 53**.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

BOPE Break Testing Variance

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded

in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.

- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

SA 11/08/2024

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

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

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

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

3. Hydrogen Sulfide Protection and Monitoring Equipment

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

4. Visual Warning Systems

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

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

4. **Mud Program**

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

5. **Metallurgy**

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

6. **Communications**

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

7. **Well Testing**

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

8. **Emergency Phone Numbers**

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

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2nd Fax	575-393-7259

District Manager	Robin Terrell	575-390-4816
Drilling Superintendent	Frosty Lathan	575-390-4103
	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TEXAS TOOTHPICK 12/13 B2DM FED COM **Well Number:** 1H**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** Waste Management facility in Carlsbad.

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?****WCuttings area liner****Cuttings area liner specifications and installation description**

Section 8 - Ancillary

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TEXAS TOOTHPICK 12/13 B2DM FED COM **Well Number:** 1H

Section 9 - Well Site

Well Site Layout Diagram:

Texas_Toothpick_12_13_B2DM_Fed_Com_1H_WellSiteLayout_20221116073719.pdf

Comments: NONE

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Texas Toothpick 12/13 CN & DM Fed Com 1H

Multiple Well Pad Number: 2

Recontouring

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance (acres): 3.8	Well pad interim reclamation (acres): 1.04	Well pad long term disturbance (acres): 2.76
Road proposed disturbance (acres): 0	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: 3.8	Total interim reclamation: 1.04	Total long term disturbance: 2.76

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

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, 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 seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Soil treatment: NA

Existing Vegetation at the well pad: Various brush & grasses

Existing Vegetation at the well pad

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 402464

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 402464
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/12/2024
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/12/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	11/21/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/21/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	11/21/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	11/21/2024
ward.rikala	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	11/21/2024
ward.rikala	Operator must comply with all of the R-111-Q requirements.	11/21/2024
ward.rikala	This well is within the Capitan Reef. The 1st intermediate string shall be sat and cemented back to surface immediately above the top of the Capitan Reef. The 2nd intermediate string shall be sat and cemented back to surface immediately below the base of the Capitan Reef.	11/21/2024