

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.
NMNM0560353

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
TIN MAN 1/6 FED COM
623H9. API Well No.
30-015-5635910. Field and Pool, or Exploratory
BENSON/BONE SPRING11. Sec., T. R. M. or Blk. and Survey or Area
SEC 1/T19S/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 NWNW / 1570 FNL / 280 FWL / LAT 32.692341 / LONG -103.9331207
At proposed prod. zone NENE / 1980 FNL / 100 FEL / LAT 32.6912075 / LONG -103.900484614. Distance in miles and direction from nearest town or post office*
10 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)
330 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
9766 feet / 19841 feet20. BLM/BIA Bond No. in file
FED: NM169321. Elevations (Show whether DF, KDB, RT, GL, etc.)
3528 feet22. Approximate date work will start*
08/06/202423. 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
08/30/2024Title
RegulatoryApproved by (Signature)
(Electronic Submission)Name (Printed/Typed)
CODY LAYTON / Ph: (575) 234-5959Date
03/05/2025Title
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)



Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	<div style="text-align: right;"> C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting </div> <div> Submittal Type: <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled </div> </div>
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WELL LOCATION INFORMATION

API Number 30-015-56359	Pool Code 5200	Pool Name BENSON; BONE SPRING
Property Code 337042	Property Name TIN MAN 1-6 FED COM	Well Number 623H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3528
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL E	Section 1	Township 19S	Range 30E	Lot	Ft. from N/S 1570 FNL	Ft. from E/W 280 FWL	Latitude 32.6923410	Longitude -103.9331207	County EDDY
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Bottom Hole Location

UL H	Section 6	Township 19S	Range 31E	Lot	Ft. from N/S 1980 FNL	Ft. from E/W 100 FEL	Latitude 32.6912075	Longitude -103.9004846	County EDDY
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Dedicated Acres 320	Infill or Defining Well DEFINING	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code N/A
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL D	Section 1	Township 19	Range 30	Lot 4	Ft. from N/S 1980 FNL	Ft. from E/W 10 FWL	Latitude 32.6912166	Longitude -103.9339873	County EDDY
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First Take Point (FTP)

UL D	Section 1	Township 19	Range 30	Lot 4	Ft. from N/S 1980 FNL	Ft. from E/W 100 FWL	Latitude 32.6912158	Longitude -103.9336949	County EDDY
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Last Take Point (LTP)

UL A	Section 6	Township 19	Range 31	Lot 1	Ft. from N/S 1980 FNL	Ft. from E/W 100 FEL	Latitude 32.6912075	Longitude -103.9004846	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3528
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OPERATOR CERTIFICATIONS

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

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

Ryan McDaniel 3/10/25
Signature Date

RYAN MCDANIEL

Printed Name

RYANMCDANIEL@MEWBOURNECOM
Email Address

SURVEYOR CERTIFICATIONS

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



Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number

Date of Survey

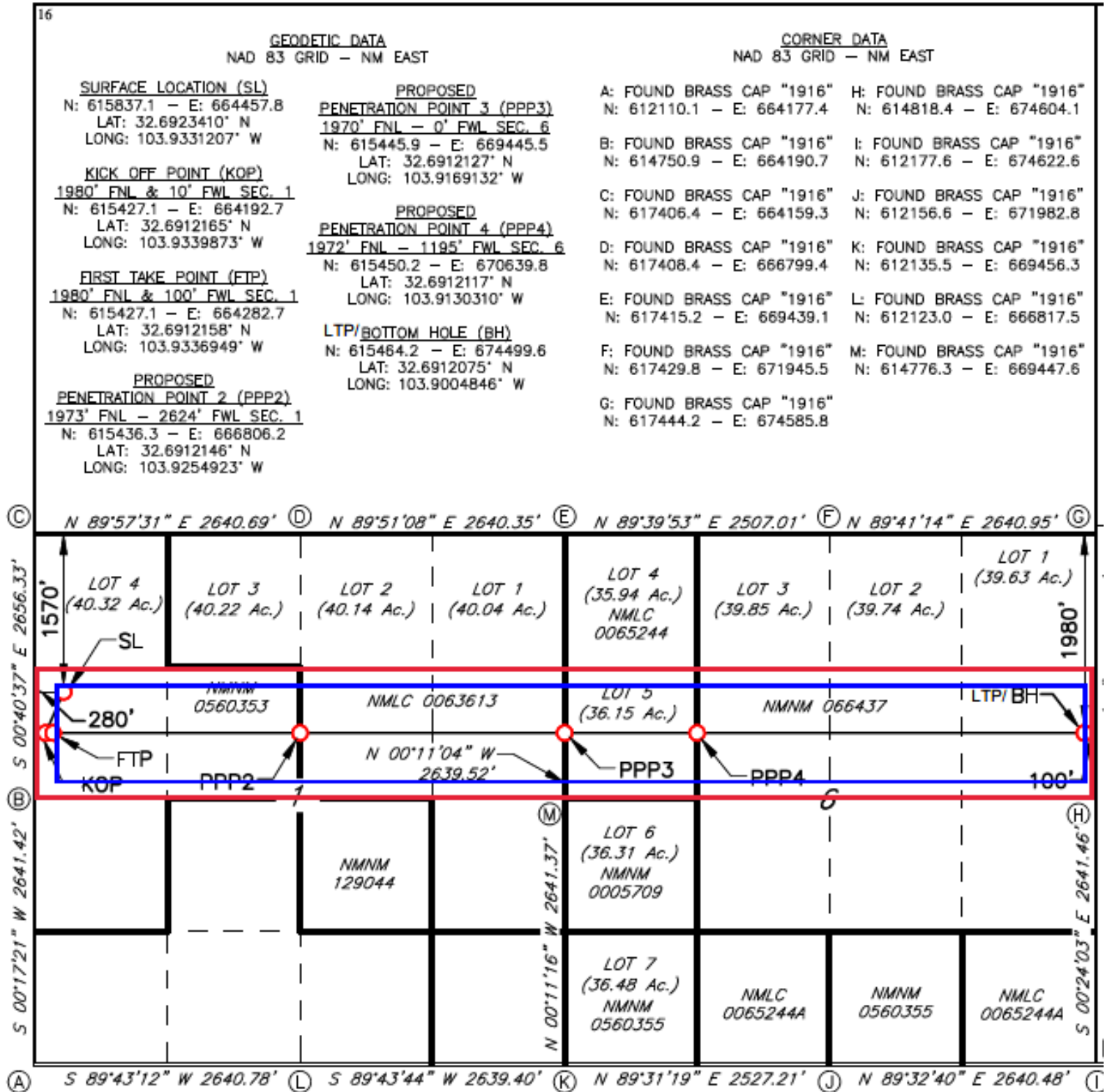
19680

4/19/24

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

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

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



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Mewbourne Oil Company **OGRID:** 14744 **Date:** 08 / 23 / 2024

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
Tin Man 1/6 Fed Com 623H		1, 19S, 30E	1570 FNL & 280 FWL	1500	3000	3000
				Y1: 400; Y2 300; Y3 200	Y1: 800; Y2: 600; Y3: 400	Y1: 1200; Y2: 900; Y3: 600

IV. Central Delivery Point Name: Tin Man 1/6 Fed Com H [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
Tin Man 1/6 Fed Com 623H		12/21/2024	01/21/2025	02/21/2025	03/05/2025	03/10/2025

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

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

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

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

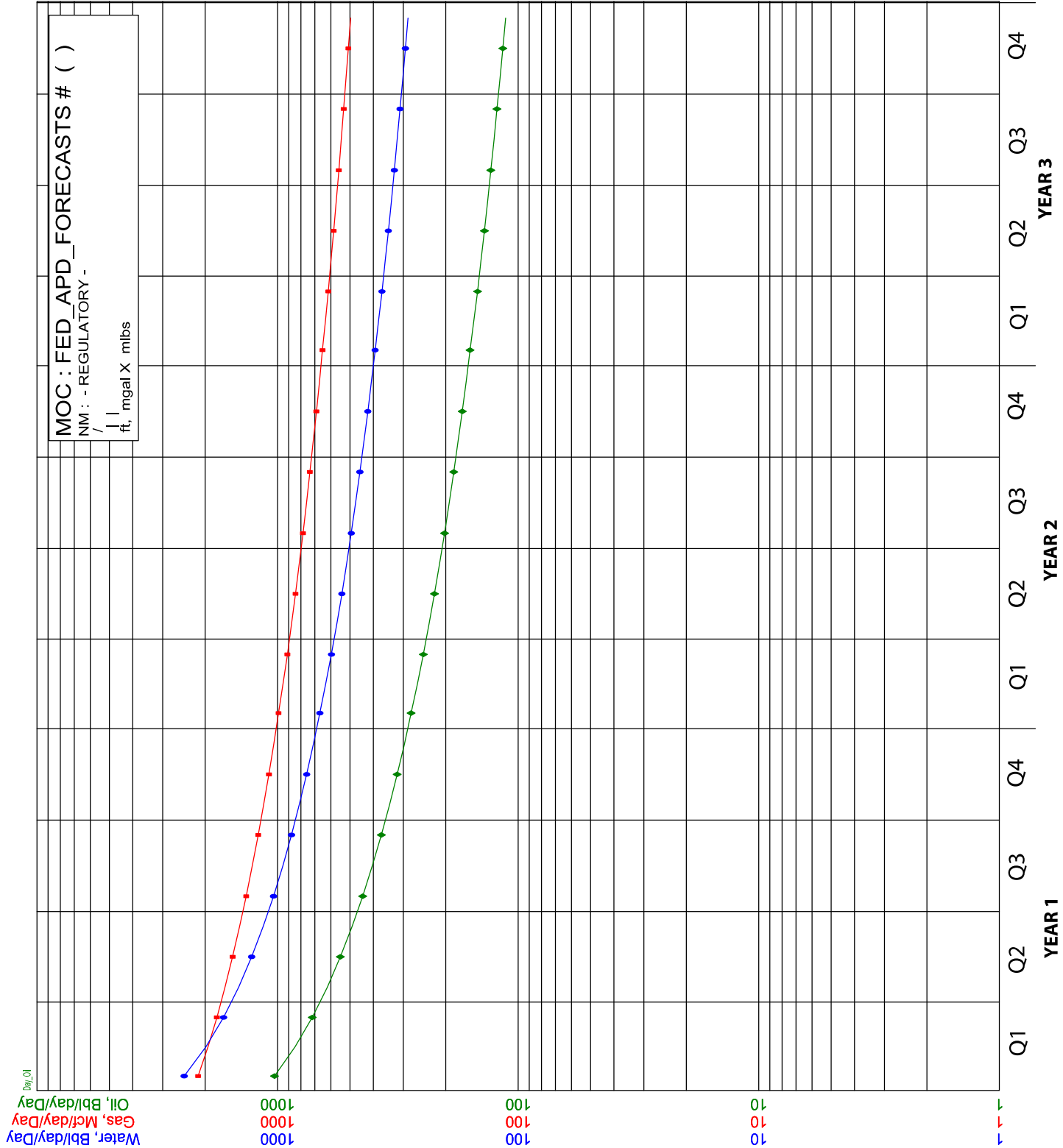
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit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

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

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

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

Signature:	<i>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	08/23/2024
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	



Oil, Bbl/day
Qual= EDDYBS2.0
Ref= 1/2025
Cum= 321735
Rem= 321735
EUR= 3,000
Yrs= 1,150
Qj= 0.950000
b= 75.000000
De= 23.952479
Df= 111.3
Qab= 111.3

Gas, Mcf/day
Qual= EDDYBS2.0
Ref= 1/2025
Cum= 1038057
Rem= 1038057
EUR= 3,000
Yrs= 2250.0
Qj= 1.050000
b= 55.000000
De= 20.108832
Df= 491.6
Qab= 491.6

Water, Bbl/d
Qual= EDDYBS2.0
Ref= 1/2025
Cum= 771323
Rem= 771323
EUR= 3,000
Yrs= 2750.0
Qj= 1.050000
b= 75.000000
De= 22.260386
Df= 283.6
Qab= 283.6



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

Drilling Plan Data Report

03/10/2025

APD ID: 10400100727

Submission Date: 08/30/2024

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TIN MAN 1/6 FED COM

Well Number: 623H

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
15152922	UNKNOWN	3515	28	28	OTHER : Topsoil	NONE	N
15152933	RUSTLER	3050	465	465	ANHYDRITE, DOLOMITE	USEABLE WATER	N
15152938	TOP SALT	2770	745	745	SALT	NONE	N
15152934	BASE OF SALT	1590	1925	1925	SALT	NONE	N
15152948	YATES	1380	2135	2135	SANDSTONE	NATURAL GAS, OIL	N
15152949	SEVEN RIVERS	950	2565	2565	DOLOMITE	NATURAL GAS, OIL	N
15152950	QUEEN	430	3085	3085	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
15152940	LAMAR	-680	4195	4195	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	N
15152945	BRUSHY CANYON LOWER	-2270	5785	5785	SANDSTONE	NATURAL GAS, OIL	N
15152944	BONE SPRING	-2590	6105	6105	LIMESTONE	NATURAL GAS, OIL	N
15152931	BONE SPRING 1ST	-4180	7695	7695	SANDSTONE	NATURAL GAS, OIL	N
15152932	BONE SPRING 2ND	-4780	8295	8295	SANDSTONE	NATURAL GAS, OIL	N
15152946	BONE SPRING 3RD	-5850	9365	9365	SANDSTONE	NATURAL GAS, OIL	Y
15152947	WOLFCAMP	-6280	9795	9795	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TIN MAN 1/6 FED COM**Well Number:** 623H**Pressure Rating (PSI):** 5M**Rating Depth:** 19841

Equipment: Annular Pipe Rams Blind Rams Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. Anchors are not required by manufacturer. A variance is requested to use a multi-bowl wellhead.

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.

Choke Diagram Attachment:

5M_BOPE_Choke_Diagram_20240718135835.pdf

Flex_Line_Specs_API_16C_20240816154535.pdf

Multi_Bowl_WH_20240816154606.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20240718135852.pdf

Cactus_5K_WH_20240718135852.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	540	0	540	3528	2988	540	H-40	48	ST&C	3.19	7.16	DRY	12.42	DRY	20.87
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2200	0	2200		1328	2200	J-55	36	LT&C	1.68	2.93	DRY	5.72	DRY	7.12
3	PRODUCTION	8.75	7.0	NEW	API	N	0	9207	0	9193	3542	-5665	9207	P-110	26	LT&C	1.37	2.19	DRY	2.89	DRY	3.47
4	LINER	6.125	4.5	NEW	API	N	9007	19841	8954	9766	-5426	-6238	10834	P-110	13.5	LT&C	1.91	2.22	DRY	2.31	DRY	2.89

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TIN MAN 1/6 FED COM**Well Number:** 623H**Casing Attachments**

Casing ID: 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Tin_Man_1_6_Fed_Com_623H_CsgAssumptions_20240828150836.pdf

Casing ID: 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Tin_Man_1_6_Fed_Com_623H_CsgAssumptions_20240828150852.pdf

Casing ID: 3 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Tin_Man_1_6_Fed_Com_623H_CsgAssumptions_20240828150941.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TIN MAN 1/6 FED COM

Well Number: 623H

Casing Attachments

Casing ID: 4 String LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Tin_Man_1_6_Fed_Com_623H_CsgAssumptions_20240828151030.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	349	230	2.12	12.5	490	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		349	540	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1521	280	2.12	12.5	600	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1521	2200	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	4400	1700	3710	180	2.12	12.5	390	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		3710	4400	100	1.34	14.8	134	25	Class C	Retarder, Fluid Loss, Defoamer
PRODUCTION	Lead	4400	4400	6746	210	2.12	12.5	450	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		6746	9207	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9007	1984 1	690	1.85	13.5	1280	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TIN MAN 1/6 FED COM**Well Number:** 623H**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**Describe the mud monitoring system utilized:** Pason/PVT/visual monitoring**Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	540	SPUD MUD	8.4	8.6							
540	2200	SALT SATURATED	9.5	10.5							
2200	9207	WATER-BASED MUD	8.6	9.5							
9207	19841	OIL-BASED MUD	10	12							

Section 6 - Test, Logging, Coring**List of production tests including testing procedures, equipment and safety measures:**

No logs are planned based on well control or offset log information. Offset Well: Tin Man 1/6 Fed Com #601H

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TIN MAN 1/6 FED COM

Well Number: 623H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5586

Anticipated Surface Pressure: 3437

Anticipated Bottom Hole Temperature(F): 140

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_Plan_20240718141454.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

TIN_MAN_1_6_FED_COM_623H_dir_plot_20240828151541.pdf

TIN_MAN_1_6_FED_COM_623H_dir_plan_20240828151541.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Tin_Man_1_6_Fed_Com_623H_AddInfo_20240828151554.pdf

Tin_Man_1_6_Fed_Com_623H_Drlg_Program_20240828151554.pdf

TIN_MAN_1_6_FED_COM_623H_NGMP_1_20241213105217.pdf

Other Variance attachment:

MOC_Break_Testing_Variance_20240723160325.pdf

MOC_Offline_Cementing_Variance_20240723160325.pdf

Decline_Curve_20240828151615.pdf

[illegible]

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

№: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 .

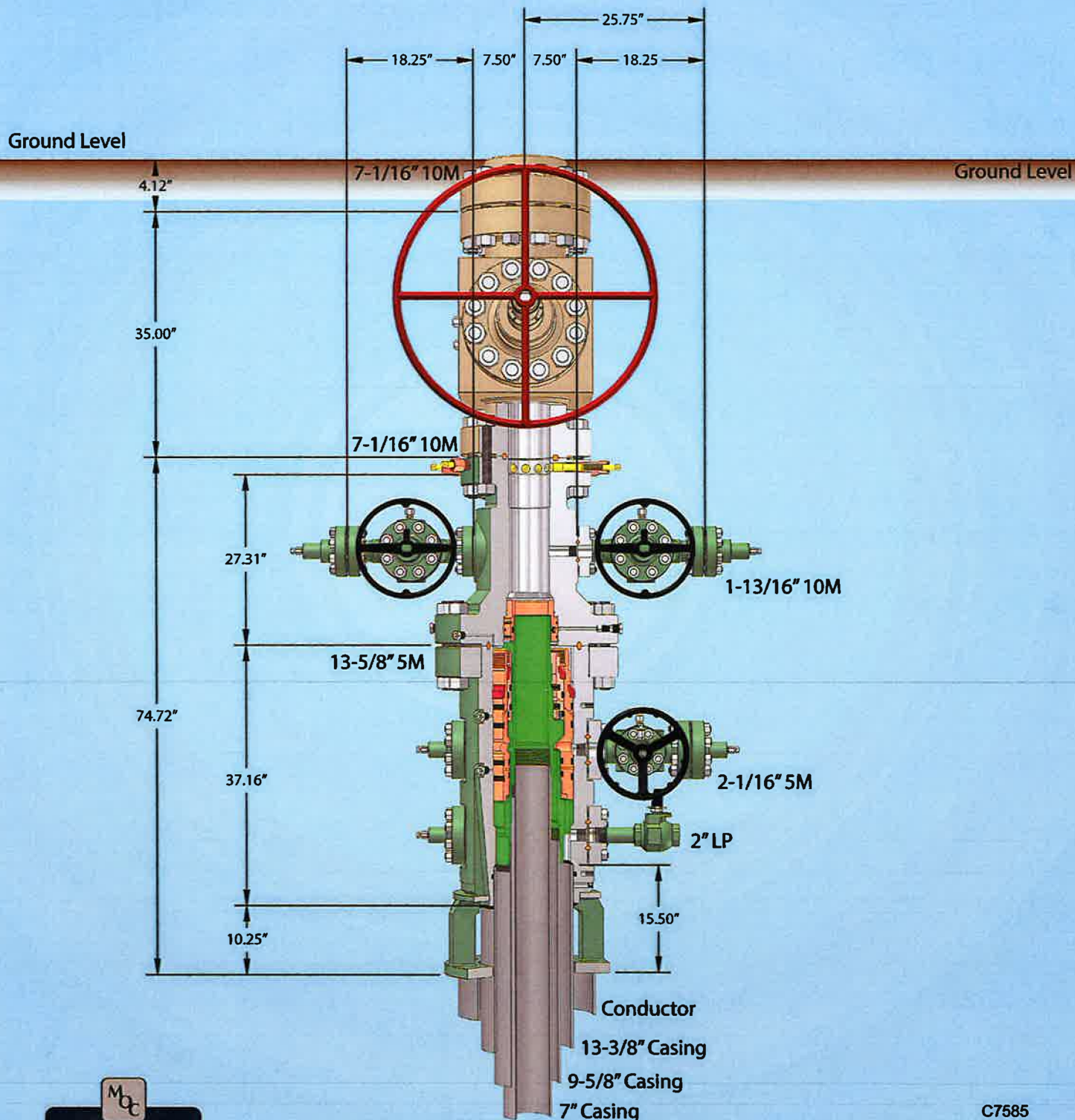
QC Manager:

Jiaolong Chen

Date:Aug 26, 2023



13-5/8" MN-DS Wellhead System



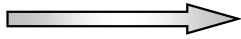
MEWBOURNE
OIL COMPANY

C7585
Rev. 02

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

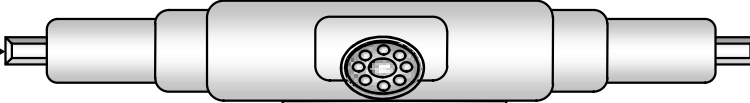
Cuffing Hanger 57" conductor cut-off

Hydril "GK"
13 5/8" 5M

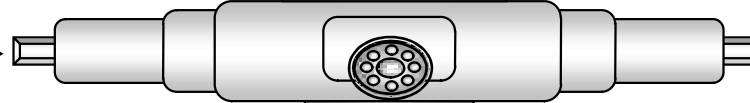


Hydril "GK"

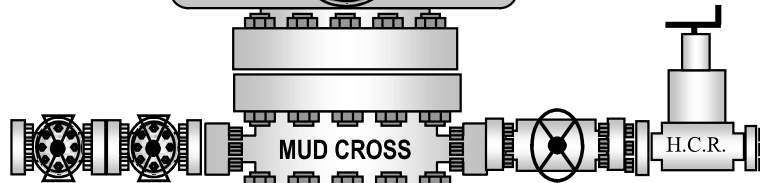
Cameron Type U
13 5/8" 5M



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

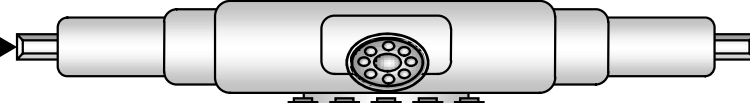


BLIND RAMS



MUD CROSS

H.C.R.



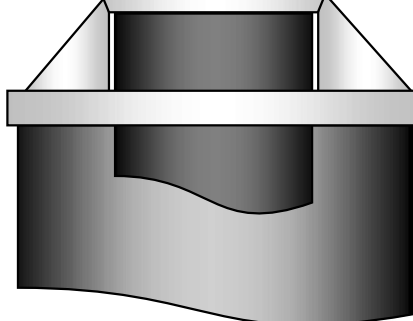
7" RAMS

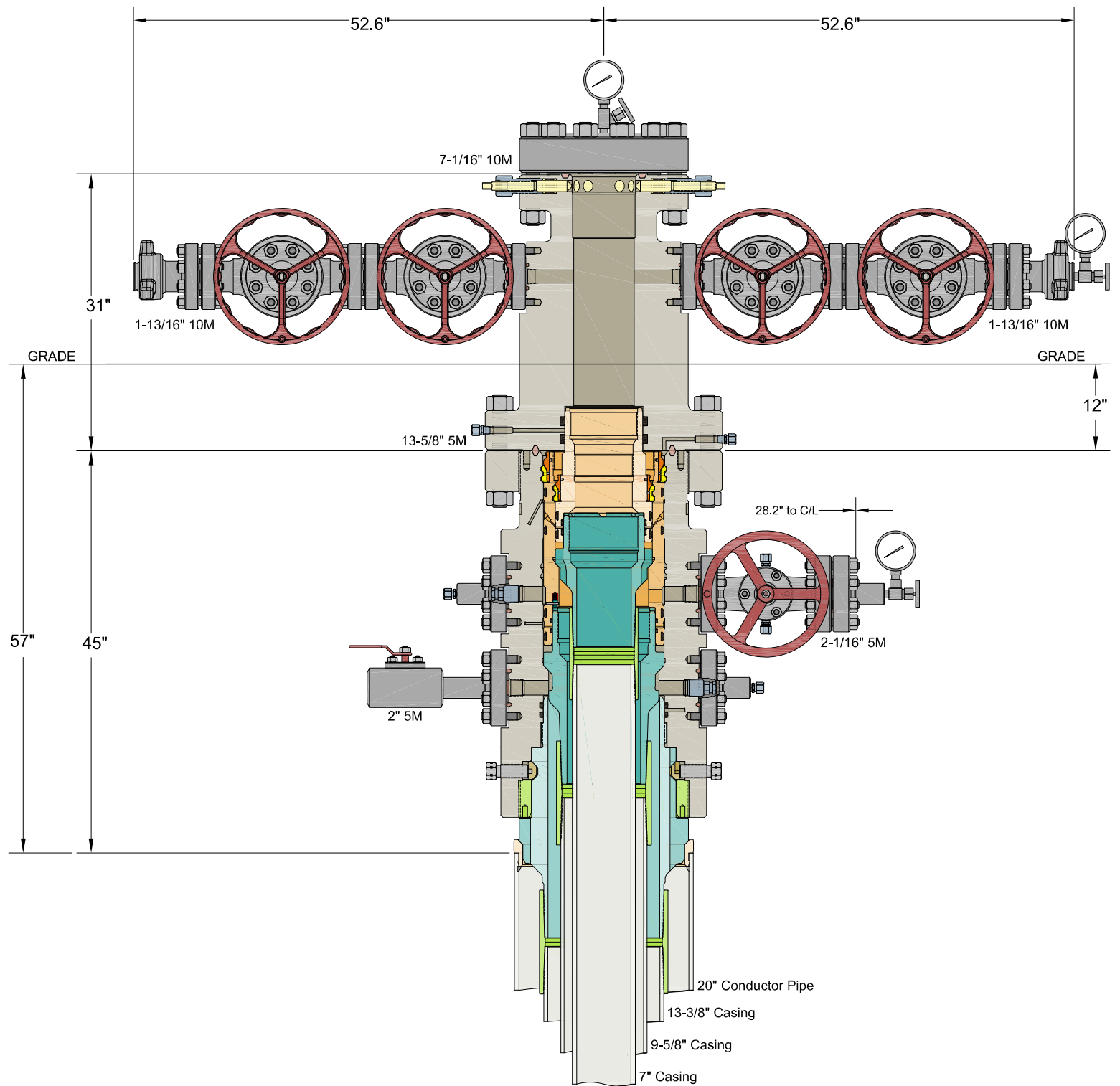


13 5/8" 5M

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13 5/8" 5M





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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

**MEWBOURNE OIL COMPANY
NEW MEXICO**

20" x 13-3/8" x 9-5/8" x 7" MBU-3T-CFL-R-DBLO Wellhead System
With 9-5/8" & 7" Fluted Mandrel Casing Hangers
And 13-5/8" 5M x 7-1/16" 10M CTH-DBLHPS Tubing Head

DRAWN	DLE	18APR22
APPRV		
DRAWING NO.	HBE0000660	

Mewbourne Oil Company, Tin Man 1/6 Fed Com 623H
Sec 1, T19S, R30E
SHL: 1570' FNL 280' FWL (Sec 1)
BHL: 1980' FNL 100' FEL (Sec 6)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 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	17.5"	0'	0'	540'	540'	13.375" 48# H40 STC	3.19	7.16	12.42	20.87
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.68	2.93	5.72	7.12
Production	8.75"	0'	0'	9207'	9193'	7" 26# P110 LTC	1.37	2.19	2.89	3.47
Liner	6.125"	9007'	8954'	19841'	9766'	4.5" 13.5# P110 LTC	1.91	2.22	2.31	2.89

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 349'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	349' - 540'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
1st Stg 7 in	LEAD	210	12.5	2.12	4400' - 6746'	450	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6746' - 9207'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 4400'								
2nd Stg 7 in	LEAD	180	12.5	2.12	1700' - 3710'	390	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	3710' - 4400'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	9007' - 19841'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Design A - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 540'	8.4 - 8.6	Fresh Water
540' - 2200'	9.5 - 10.5	Brine
2200' - 9207'	8.6 - 9.5	Cut-Brine
9207' - 19841'	10.0 - 11.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	465'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4195'	Oil/Natural Gas
Salt Top	745'	None	Bell Canyon		
Salt Base	1925'	None	Cherry Canyon		
Yates	2135'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2565'	Oil/Natural Gas	Basal Brushy Canyon	5785'	Oil/Natural Gas
Queen	3085'	Oil/Natural Gas	Bone Spring	6105'	Oil/Natural Gas
Capitan			1st Bone Spring	7695'	Oil/Natural Gas
Grayburg	3565'	None	2nd Bone Spring	8295'	Oil/Natural Gas
San Andres			3rd Bone Spring	9365'	Oil/Natural Gas
Glorieta			Wolfcamp	9795'	Oil/Natural Gas

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Tin Man 1/6 Fed Com 623H
Sec 1, T19S, R30E
SHL: 1570' FNL 280' FWL (Sec 1)
BHL: 1980' FNL 100' FEL (Sec 6)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 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	17.5"	0'	0'	540'	540'	13.375" 48# H40 STC	3.19	7.16	12.42	20.87
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.68	2.93	5.72	7.12
Production	8.75"	0'	0'	10107'	9766'	7" 26# P110 LTC	1.29	2.06	2.64	3.16
Liner	6.125"	9207'	9193'	19841'	9766'	4.5" 13.5# P110 LTC	1.91	2.22	2.35	2.94

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 349'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	349' - 540'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
1st Stg 7 in	LEAD	290	12.5	2.12	4400' - 7640'	620	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7640' - 10107'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 4400'								
2nd Stg 7 in	LEAD	180	12.5	2.12	1700' - 3710'	390	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	3710' - 4400'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	9207' - 19841'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 540'	8.4 - 8.6	Fresh Water
540' - 2200'	9.5 - 10.5	Brine
2200' - 10107'	8.6 - 9.5	Cut-Brine
10107' - 19841'	10.0 - 11.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	465'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4195'	Oil/Natural Gas
Salt Top	745'	None	Bell Canyon		
Salt Base	1925'	None	Cherry Canyon		
Yates	2135'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2565'	Oil/Natural Gas	Basal Brushy Canyon	5785'	Oil/Natural Gas
Queen	3085'	Oil/Natural Gas	Bone Spring	6105'	Oil/Natural Gas
Capitan			1st Bone Spring	7695'	Oil/Natural Gas
Grayburg	3565'	None	2nd Bone Spring	8295'	Oil/Natural Gas
San Andres			3rd Bone Spring	9365'	Oil/Natural Gas
Glorieta			Wolfcamp	9795'	Oil/Natural Gas

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
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BHL: 1980' FNL 100' FEL (Sec 6)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 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	17.5"	0'	0'	540'	540'	13.375" 48# H40 STC	3.19	7.16	12.42	20.87
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.68	2.93	5.72	7.12
Production	8.75"	0'	0'	9207'	9193'	7" 26# P110 LTC	1.37	2.19	2.89	3.47
Liner	6.125"	9007'	8954'	19841'	9766'	4.5" 13.5# P110 LTC	1.91	2.22	2.31	2.89

Cement Program

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13.375 in	LEAD	230	12.5	2.12	0' - 349'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	349' - 540'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
1st Stg 7 in	LEAD	210	12.5	2.12	4400' - 6746'	450	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6746' - 9207'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 4400'								
2nd Stg 7 in	LEAD	180	12.5	2.12	1700' - 3710'	390	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	3710' - 4400'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	9007' - 19841'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Design A - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 540'	8.4 - 8.6	Fresh Water
540' - 2200'	9.5 - 10.5	Brine
2200' - 9207'	8.6 - 9.5	Cut-Brine
9207' - 19841'	10.0 - 11.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	465'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4195'	Oil/Natural Gas
Salt Top	745'	None	Bell Canyon		
Salt Base	1925'	None	Cherry Canyon		
Yates	2135'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2565'	Oil/Natural Gas	Basal Brushy Canyon	5785'	Oil/Natural Gas
Queen	3085'	Oil/Natural Gas	Bone Spring	6105'	Oil/Natural Gas
Capitan			1st Bone Spring	7695'	Oil/Natural Gas
Grayburg	3565'	None	2nd Bone Spring	8295'	Oil/Natural Gas
San Andres			3rd Bone Spring	9365'	Oil/Natural Gas
Glorieta			Wolfcamp	9795'	Oil/Natural Gas

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
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Sec 1, T19S, R30E
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Design B - Cement Program

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Design B - Mud Program

Depth	Mud Wt	Mud Type
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0' - 540'	8.4 - 8.6	Fresh Water
540' - 2200'	9.5 - 10.5	Brine
2200' - 10107'	8.6 - 9.5	Cut-Brine
10107' - 19841'	10.0 - 11.	OBM

Geology

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Queen	3085'	Oil/Natural Gas	Bone Spring	6105'	Oil/Natural Gas
Capitan			1st Bone Spring	7695'	Oil/Natural Gas
Grayburg	3565'	None	2nd Bone Spring	8295'	Oil/Natural Gas
San Andres			3rd Bone Spring	9365'	Oil/Natural Gas
Glorieta			Wolfcamp	9795'	Oil/Natural Gas

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	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Tin Man 1/6 Fed Com 623H

Sec 1, T19S, R30E

SHL: 1570' FNL 280' FWL (Sec 1)

BHL: 1980' FNL 100' FEL (Sec 6)

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	17.5"	0'	0'	540'	540'	13.375" 48# H40 STC	3.19	7.16	12.42	20.87
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.68	2.93	5.72	7.12
Production	8.75"	0'	0'	9207'	9193'	7" 26# P110 LTC	1.37	2.19	2.89	3.47
Liner	6.125"	9007'	8954'	19841'	9766'	4.5" 13.5# P110 LTC	1.91	2.22	2.31	2.89

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 349'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	349' - 540'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
1st Stg 7 in	LEAD	210	12.5	2.12	4400' - 6746'	450	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6746' - 9207'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 4400'								
2nd Stg 7 in	LEAD	180	12.5	2.12	1700' - 3710'	390	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	3710' - 4400'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	9007' - 19841'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Design A - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 540'	8.4 - 8.6	Fresh Water
540' - 2200'	9.5 - 10.5	Brine
2200' - 9207'	8.6 - 9.5	Cut-Brine
9207' - 19841'	10.0 - 11.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	465'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4195'	Oil/Natural Gas
Salt Top	745'	None	Bell Canyon		
Salt Base	1925'	None	Cherry Canyon		
Yates	2135'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2565'	Oil/Natural Gas	Basal Brushy Canyon	5785'	Oil/Natural Gas
Queen	3085'	Oil/Natural Gas	Bone Spring	6105'	Oil/Natural Gas
Capitan			1st Bone Spring	7695'	Oil/Natural Gas
Grayburg	3565'	None	2nd Bone Spring	8295'	Oil/Natural Gas
San Andres			3rd Bone Spring	9365'	Oil/Natural Gas
Glorieta			Wolfcamp	9795'	Oil/Natural Gas

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Tin Man 1/6 Fed Com 623H
Sec 1, T19S, R30E
SHL: 1570' FNL 280' FWL (Sec 1)
BHL: 1980' FNL 100' FEL (Sec 6)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 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	17.5"	0'	0'	540'	540'	13.375" 48# H40 STC	3.19	7.16	12.42	20.87
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.68	2.93	5.72	7.12
Production	8.75"	0'	0'	10107'	9766'	7" 26# P110 LTC	1.29	2.06	2.64	3.16
Liner	6.125"	9207'	9193'	19841'	9766'	4.5" 13.5# P110 LTC	1.91	2.22	2.35	2.94

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 349'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	349' - 540'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
1st Stg 7 in	LEAD	290	12.5	2.12	4400' - 7640'	620	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7640' - 10107'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 4400'								
2nd Stg 7 in	LEAD	180	12.5	2.12	1700' - 3710'	390	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	3710' - 4400'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	9207' - 19841'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 540'	8.4 - 8.6	Fresh Water
540' - 2200'	9.5 - 10.5	Brine
2200' - 10107'	8.6 - 9.5	Cut-Brine
10107' - 19841'	10.0 - 11.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	465'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4195'	Oil/Natural Gas
Salt Top	745'	None	Bell Canyon		
Salt Base	1925'	None	Cherry Canyon		
Yates	2135'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2565'	Oil/Natural Gas	Basal Brushy Canyon	5785'	Oil/Natural Gas
Queen	3085'	Oil/Natural Gas	Bone Spring	6105'	Oil/Natural Gas
Capitan			1st Bone Spring	7695'	Oil/Natural Gas
Grayburg	3565'	None	2nd Bone Spring	8295'	Oil/Natural Gas
San Andres			3rd Bone Spring	9365'	Oil/Natural Gas
Glorieta			Wolfcamp	9795'	Oil/Natural Gas

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Tin Man 1/6 Fed Com 623H
Sec 1, T19S, R30E
SHL: 1570' FNL 280' FWL (Sec 1)
BHL: 1980' FNL 100' FEL (Sec 6)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 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	17.5"	0'	0'	540'	540'	13.375" 48# H40 STC	3.19	7.16	12.42	20.87
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Liner	6.125"	9007'	8954'	19841'	9766'	4.5" 13.5# P110 LTC	1.91	2.22	2.31	2.89

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Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 349'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	349' - 540'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
1st Stg 7 in	LEAD	210	12.5	2.12	4400' - 6746'	450	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6746' - 9207'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 4400'								
2nd Stg 7 in	LEAD	180	12.5	2.12	1700' - 3710'	390	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	3710' - 4400'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	9007' - 19841'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Design A - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 540'	8.4 - 8.6	Fresh Water
540' - 2200'	9.5 - 10.5	Brine
2200' - 9207'	8.6 - 9.5	Cut-Brine
9207' - 19841'	10.0 - 11.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	465'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4195'	Oil/Natural Gas
Salt Top	745'	None	Bell Canyon		
Salt Base	1925'	None	Cherry Canyon		
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Seven Rivers	2565'	Oil/Natural Gas	Basal Brushy Canyon	5785'	Oil/Natural Gas
Queen	3085'	Oil/Natural Gas	Bone Spring	6105'	Oil/Natural Gas
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Glorieta			Wolfcamp	9795'	Oil/Natural Gas

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Tin Man 1/6 Fed Com 623H
Sec 1, T19S, R30E
SHL: 1570' FNL 280' FWL (Sec 1)
BHL: 1980' FNL 100' FEL (Sec 6)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
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Design B - Cement Program

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	TAIL	200	14.8	1.34	349' - 540'	268		Class C: Retarder
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1st Stg 7 in	LEAD	290	12.5	2.12	4400' - 7640'	620	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7640' - 10107'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 4400'								
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	TAIL	100	14.8	1.34	3710' - 4400'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	9207' - 19841'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 540'	8.4 - 8.6	Fresh Water
540' - 2200'	9.5 - 10.5	Brine
2200' - 10107'	8.6 - 9.5	Cut-Brine
10107' - 19841'	10.0 - 11.	OBM

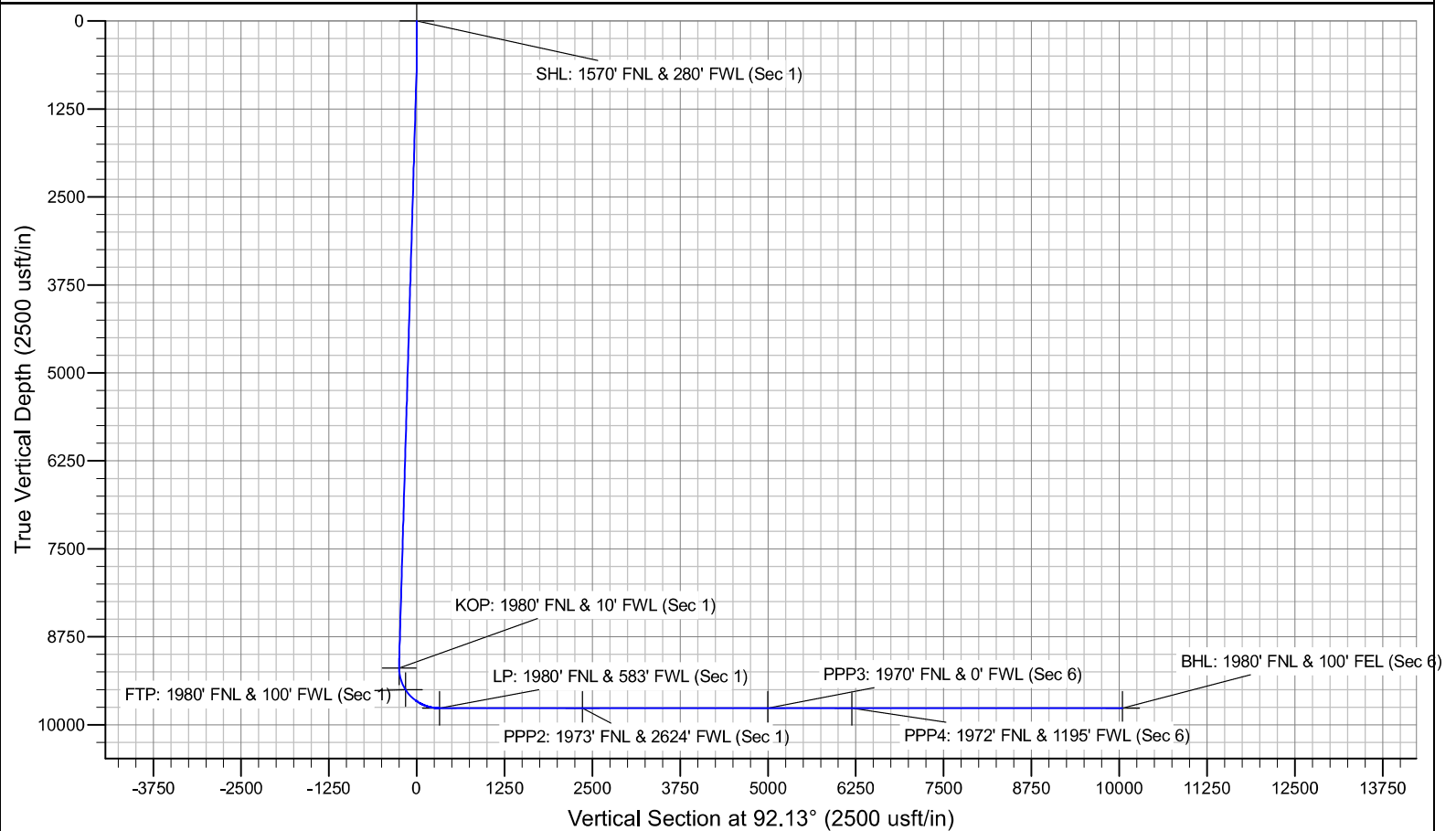
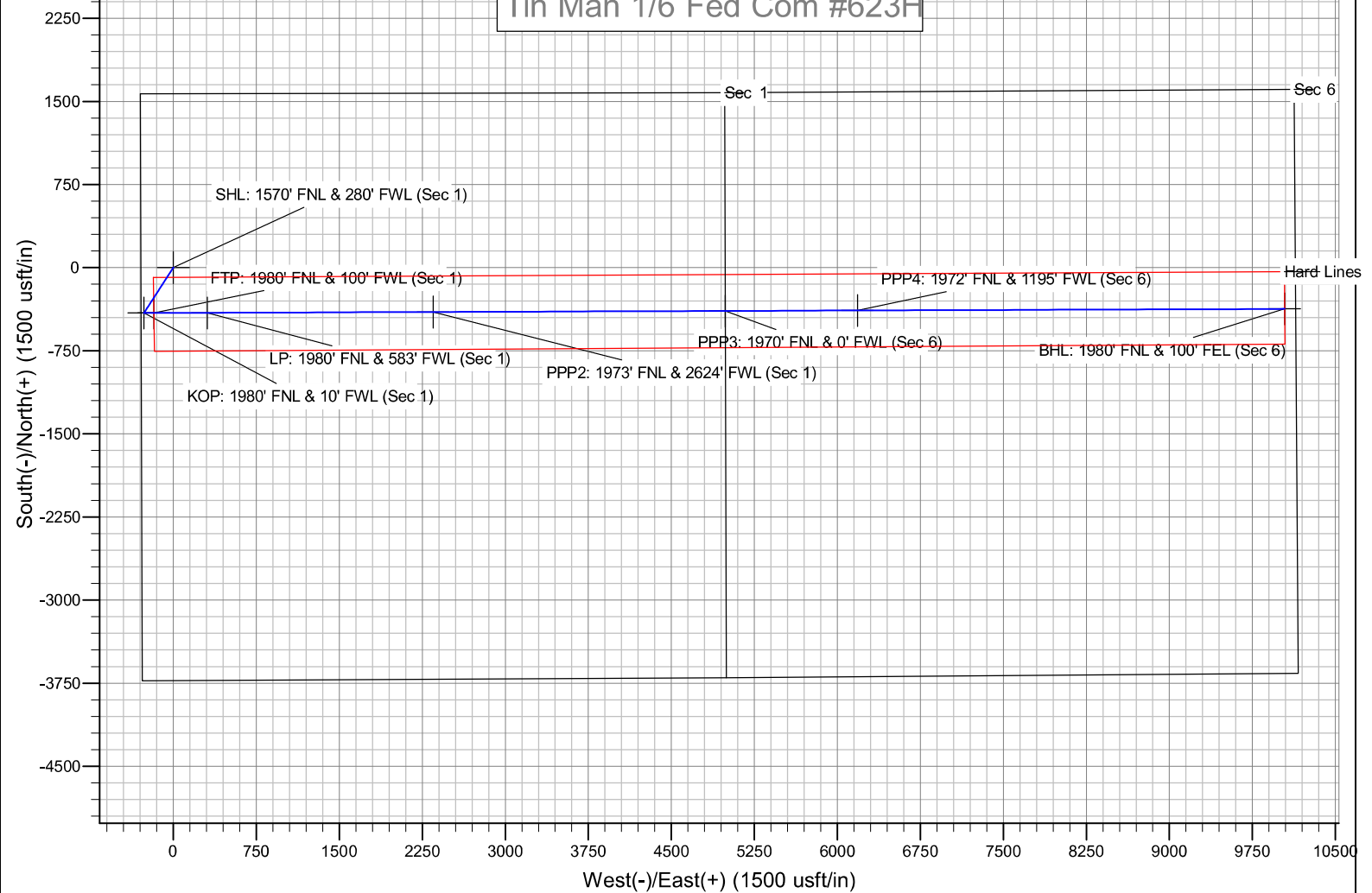
Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	465'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4195'	Oil/Natural Gas
Salt Top	745'	None	Bell Canyon		
Salt Base	1925'	None	Cherry Canyon		
Yates	2135'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2565'	Oil/Natural Gas	Basal Brushy Canyon	5785'	Oil/Natural Gas
Queen	3085'	Oil/Natural Gas	Bone Spring	6105'	Oil/Natural Gas
Capitan			1st Bone Spring	7695'	Oil/Natural Gas
Grayburg	3565'	None	2nd Bone Spring	8295'	Oil/Natural Gas
San Andres			3rd Bone Spring	9365'	Oil/Natural Gas
Glorieta			Wolfcamp	9795'	Oil/Natural Gas

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

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

Tin Man 1/6 Fed Com #623H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Tin Man 1/6 Fed Com #623H

Sec 01, T19S, R30E

SHL: 1570' FNL & 280' FWL (Sec 1)

BHL: 1980' FNL & 100' FEL (Sec 6)

Plan: Design #1

Standard Planning Report

05 July, 2024

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
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	Tin Man 1/6 Fed Com #623H				
Site Position:		Northing:	615,837.10 usft	Latitude:	32.6923409
From:	Map	Easting:	664,457.80 usft	Longitude:	-103.9331207
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Sec 01, T19S, R30E					
Well Position	+N/-S	0.0 usft	Northing:	615,837.10 usft	Latitude:	32.6923409
	+E/-W	0.0 usft	Easting:	664,457.80 usft	Longitude:	-103.9331207
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,556.0 usft	Ground Level:	3,528.0 usft
Grid Convergence:		0.22 °				

Wellbore	BHL: 1980' FNL & 100' FEL (Sec 6)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.35	60.47	48,477.89568702

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	92.13

Plan Survey Tool Program	Date	7/5/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,841.0	Design #1 (BHL: 1980' FNL & 100	

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	
550.0	0.00	0.00	550.0	0.0	0.0	0.00	0.00	0.00	0.00	
714.8	3.30	212.89	714.7	-4.0	-2.6	2.00	2.00	0.00	212.89	
9,042.2	3.30	212.89	9,028.3	-406.0	-262.5	0.00	0.00	0.00	0.00	
9,207.0	0.00	0.00	9,193.0	-410.0	-265.1	2.00	-2.00	0.00	180.00	KOP: 1980' FNL & 10'
10,107.0	90.00	89.79	9,766.0	-407.9	307.9	10.00	10.00	0.00	89.79	
19,841.0	90.00	89.79	9,766.0	-372.9	10,041.8	0.00	0.00	0.00	0.00	BHL: 1980' FNL & 100'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
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: 1570' FNL & 280' FWL (Sec 1)									
50.0	0.00	0.00	50.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	1.00	212.89	600.0	-0.4	-0.2	-0.2	2.00	2.00	0.00
650.0	2.00	212.89	650.0	-1.5	-0.9	-0.9	2.00	2.00	0.00
700.0	3.00	212.89	699.9	-3.3	-2.1	-2.0	2.00	2.00	0.00
714.8	3.30	212.89	714.7	-4.0	-2.6	-2.4	2.00	2.00	0.00
750.0	3.30	212.89	749.9	-5.7	-3.7	-3.5	0.00	0.00	0.00
800.0	3.30	212.89	799.8	-8.1	-5.2	-4.9	0.00	0.00	0.00
850.0	3.30	212.89	849.7	-10.5	-6.8	-6.4	0.00	0.00	0.00
900.0	3.30	212.89	899.6	-12.9	-8.4	-7.9	0.00	0.00	0.00
950.0	3.30	212.89	949.5	-15.3	-9.9	-9.3	0.00	0.00	0.00
1,000.0	3.30	212.89	999.4	-17.7	-11.5	-10.8	0.00	0.00	0.00
1,050.0	3.30	212.89	1,049.4	-20.2	-13.0	-12.3	0.00	0.00	0.00
1,100.0	3.30	212.89	1,099.3	-22.6	-14.6	-13.7	0.00	0.00	0.00
1,150.0	3.30	212.89	1,149.2	-25.0	-16.2	-15.2	0.00	0.00	0.00
1,200.0	3.30	212.89	1,199.1	-27.4	-17.7	-16.7	0.00	0.00	0.00
1,250.0	3.30	212.89	1,249.0	-29.8	-19.3	-18.2	0.00	0.00	0.00
1,300.0	3.30	212.89	1,298.9	-32.2	-20.8	-19.6	0.00	0.00	0.00
1,350.0	3.30	212.89	1,348.9	-34.6	-22.4	-21.1	0.00	0.00	0.00
1,400.0	3.30	212.89	1,398.8	-37.1	-24.0	-22.6	0.00	0.00	0.00
1,450.0	3.30	212.89	1,448.7	-39.5	-25.5	-24.0	0.00	0.00	0.00
1,500.0	3.30	212.89	1,498.6	-41.9	-27.1	-25.5	0.00	0.00	0.00
1,550.0	3.30	212.89	1,548.5	-44.3	-28.6	-27.0	0.00	0.00	0.00
1,600.0	3.30	212.89	1,598.4	-46.7	-30.2	-28.5	0.00	0.00	0.00
1,650.0	3.30	212.89	1,648.4	-49.1	-31.8	-29.9	0.00	0.00	0.00
1,700.0	3.30	212.89	1,698.3	-51.5	-33.3	-31.4	0.00	0.00	0.00
1,750.0	3.30	212.89	1,748.2	-54.0	-34.9	-32.9	0.00	0.00	0.00
1,800.0	3.30	212.89	1,798.1	-56.4	-36.4	-34.3	0.00	0.00	0.00
1,850.0	3.30	212.89	1,848.0	-58.8	-38.0	-35.8	0.00	0.00	0.00
1,900.0	3.30	212.89	1,897.9	-61.2	-39.6	-37.3	0.00	0.00	0.00
1,950.0	3.30	212.89	1,947.9	-63.6	-41.1	-38.7	0.00	0.00	0.00
2,000.0	3.30	212.89	1,997.8	-66.0	-42.7	-40.2	0.00	0.00	0.00
2,050.0	3.30	212.89	2,047.7	-68.4	-44.3	-41.7	0.00	0.00	0.00
2,100.0	3.30	212.89	2,097.6	-70.9	-45.8	-43.2	0.00	0.00	0.00
2,150.0	3.30	212.89	2,147.5	-73.3	-47.4	-44.6	0.00	0.00	0.00
2,200.0	3.30	212.89	2,197.5	-75.7	-48.9	-46.1	0.00	0.00	0.00
2,250.0	3.30	212.89	2,247.4	-78.1	-50.5	-47.6	0.00	0.00	0.00
2,300.0	3.30	212.89	2,297.3	-80.5	-52.1	-49.0	0.00	0.00	0.00
2,350.0	3.30	212.89	2,347.2	-82.9	-53.6	-50.5	0.00	0.00	0.00
2,400.0	3.30	212.89	2,397.1	-85.3	-55.2	-52.0	0.00	0.00	0.00
2,450.0	3.30	212.89	2,447.0	-87.8	-56.7	-53.4	0.00	0.00	0.00
2,500.0	3.30	212.89	2,497.0	-90.2	-58.3	-54.9	0.00	0.00	0.00
2,550.0	3.30	212.89	2,546.9	-92.6	-59.9	-56.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,600.0	3.30	212.89	2,596.8	-95.0	-61.4	-57.9	0.00	0.00	0.00
2,650.0	3.30	212.89	2,646.7	-97.4	-63.0	-59.3	0.00	0.00	0.00
2,700.0	3.30	212.89	2,696.6	-99.8	-64.5	-60.8	0.00	0.00	0.00
2,750.0	3.30	212.89	2,746.5	-102.2	-66.1	-62.3	0.00	0.00	0.00
2,800.0	3.30	212.89	2,796.5	-104.7	-67.7	-63.7	0.00	0.00	0.00
2,850.0	3.30	212.89	2,846.4	-107.1	-69.2	-65.2	0.00	0.00	0.00
2,900.0	3.30	212.89	2,896.3	-109.5	-70.8	-66.7	0.00	0.00	0.00
2,950.0	3.30	212.89	2,946.2	-111.9	-72.3	-68.1	0.00	0.00	0.00
3,000.0	3.30	212.89	2,996.1	-114.3	-73.9	-69.6	0.00	0.00	0.00
3,050.0	3.30	212.89	3,046.0	-116.7	-75.5	-71.1	0.00	0.00	0.00
3,100.0	3.30	212.89	3,096.0	-119.1	-77.0	-72.6	0.00	0.00	0.00
3,150.0	3.30	212.89	3,145.9	-121.5	-78.6	-74.0	0.00	0.00	0.00
3,200.0	3.30	212.89	3,195.8	-124.0	-80.2	-75.5	0.00	0.00	0.00
3,250.0	3.30	212.89	3,245.7	-126.4	-81.7	-77.0	0.00	0.00	0.00
3,300.0	3.30	212.89	3,295.6	-128.8	-83.3	-78.4	0.00	0.00	0.00
3,350.0	3.30	212.89	3,345.6	-131.2	-84.8	-79.9	0.00	0.00	0.00
3,400.0	3.30	212.89	3,395.5	-133.6	-86.4	-81.4	0.00	0.00	0.00
3,450.0	3.30	212.89	3,445.4	-136.0	-88.0	-82.8	0.00	0.00	0.00
3,500.0	3.30	212.89	3,495.3	-138.4	-89.5	-84.3	0.00	0.00	0.00
3,550.0	3.30	212.89	3,545.2	-140.9	-91.1	-85.8	0.00	0.00	0.00
3,600.0	3.30	212.89	3,595.1	-143.3	-92.6	-87.3	0.00	0.00	0.00
3,650.0	3.30	212.89	3,645.1	-145.7	-94.2	-88.7	0.00	0.00	0.00
3,700.0	3.30	212.89	3,695.0	-148.1	-95.8	-90.2	0.00	0.00	0.00
3,750.0	3.30	212.89	3,744.9	-150.5	-97.3	-91.7	0.00	0.00	0.00
3,800.0	3.30	212.89	3,794.8	-152.9	-98.9	-93.1	0.00	0.00	0.00
3,850.0	3.30	212.89	3,844.7	-155.3	-100.4	-94.6	0.00	0.00	0.00
3,900.0	3.30	212.89	3,894.6	-157.8	-102.0	-96.1	0.00	0.00	0.00
3,950.0	3.30	212.89	3,944.6	-160.2	-103.6	-97.6	0.00	0.00	0.00
4,000.0	3.30	212.89	3,994.5	-162.6	-105.1	-99.0	0.00	0.00	0.00
4,050.0	3.30	212.89	4,044.4	-165.0	-106.7	-100.5	0.00	0.00	0.00
4,100.0	3.30	212.89	4,094.3	-167.4	-108.2	-102.0	0.00	0.00	0.00
4,150.0	3.30	212.89	4,144.2	-169.8	-109.8	-103.4	0.00	0.00	0.00
4,200.0	3.30	212.89	4,194.1	-172.2	-111.4	-104.9	0.00	0.00	0.00
4,250.0	3.30	212.89	4,244.1	-174.7	-112.9	-106.4	0.00	0.00	0.00
4,300.0	3.30	212.89	4,294.0	-177.1	-114.5	-107.8	0.00	0.00	0.00
4,350.0	3.30	212.89	4,343.9	-179.5	-116.1	-109.3	0.00	0.00	0.00
4,400.0	3.30	212.89	4,393.8	-181.9	-117.6	-110.8	0.00	0.00	0.00
4,450.0	3.30	212.89	4,443.7	-184.3	-119.2	-112.3	0.00	0.00	0.00
4,500.0	3.30	212.89	4,493.6	-186.7	-120.7	-113.7	0.00	0.00	0.00
4,550.0	3.30	212.89	4,543.6	-189.1	-122.3	-115.2	0.00	0.00	0.00
4,600.0	3.30	212.89	4,593.5	-191.6	-123.9	-116.7	0.00	0.00	0.00
4,650.0	3.30	212.89	4,643.4	-194.0	-125.4	-118.1	0.00	0.00	0.00
4,700.0	3.30	212.89	4,693.3	-196.4	-127.0	-119.6	0.00	0.00	0.00
4,750.0	3.30	212.89	4,743.2	-198.8	-128.5	-121.1	0.00	0.00	0.00
4,800.0	3.30	212.89	4,793.2	-201.2	-130.1	-122.5	0.00	0.00	0.00
4,850.0	3.30	212.89	4,843.1	-203.6	-131.7	-124.0	0.00	0.00	0.00
4,900.0	3.30	212.89	4,893.0	-206.0	-133.2	-125.5	0.00	0.00	0.00
4,950.0	3.30	212.89	4,942.9	-208.5	-134.8	-127.0	0.00	0.00	0.00
5,000.0	3.30	212.89	4,992.8	-210.9	-136.3	-128.4	0.00	0.00	0.00
5,050.0	3.30	212.89	5,042.7	-213.3	-137.9	-129.9	0.00	0.00	0.00
5,100.0	3.30	212.89	5,092.7	-215.7	-139.5	-131.4	0.00	0.00	0.00
5,150.0	3.30	212.89	5,142.6	-218.1	-141.0	-132.8	0.00	0.00	0.00
5,200.0	3.30	212.89	5,192.5	-220.5	-142.6	-134.3	0.00	0.00	0.00
5,250.0	3.30	212.89	5,242.4	-222.9	-144.1	-135.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.0	3.30	212.89	5,292.3	-225.4	-145.7	-137.2	0.00	0.00	0.00	
5,350.0	3.30	212.89	5,342.2	-227.8	-147.3	-138.7	0.00	0.00	0.00	
5,400.0	3.30	212.89	5,392.2	-230.2	-148.8	-140.2	0.00	0.00	0.00	
5,450.0	3.30	212.89	5,442.1	-232.6	-150.4	-141.7	0.00	0.00	0.00	
5,500.0	3.30	212.89	5,492.0	-235.0	-152.0	-143.1	0.00	0.00	0.00	
5,550.0	3.30	212.89	5,541.9	-237.4	-153.5	-144.6	0.00	0.00	0.00	
5,600.0	3.30	212.89	5,591.8	-239.8	-155.1	-146.1	0.00	0.00	0.00	
5,650.0	3.30	212.89	5,641.7	-242.2	-156.6	-147.5	0.00	0.00	0.00	
5,700.0	3.30	212.89	5,691.7	-244.7	-158.2	-149.0	0.00	0.00	0.00	
5,750.0	3.30	212.89	5,741.6	-247.1	-159.8	-150.5	0.00	0.00	0.00	
5,800.0	3.30	212.89	5,791.5	-249.5	-161.3	-151.9	0.00	0.00	0.00	
5,850.0	3.30	212.89	5,841.4	-251.9	-162.9	-153.4	0.00	0.00	0.00	
5,900.0	3.30	212.89	5,891.3	-254.3	-164.4	-154.9	0.00	0.00	0.00	
5,950.0	3.30	212.89	5,941.2	-256.7	-166.0	-156.4	0.00	0.00	0.00	
6,000.0	3.30	212.89	5,991.2	-259.1	-167.6	-157.8	0.00	0.00	0.00	
6,050.0	3.30	212.89	6,041.1	-261.6	-169.1	-159.3	0.00	0.00	0.00	
6,100.0	3.30	212.89	6,091.0	-264.0	-170.7	-160.8	0.00	0.00	0.00	
6,150.0	3.30	212.89	6,140.9	-266.4	-172.2	-162.2	0.00	0.00	0.00	
6,200.0	3.30	212.89	6,190.8	-268.8	-173.8	-163.7	0.00	0.00	0.00	
6,250.0	3.30	212.89	6,240.8	-271.2	-175.4	-165.2	0.00	0.00	0.00	
6,300.0	3.30	212.89	6,290.7	-273.6	-176.9	-166.6	0.00	0.00	0.00	
6,350.0	3.30	212.89	6,340.6	-276.0	-178.5	-168.1	0.00	0.00	0.00	
6,400.0	3.30	212.89	6,390.5	-278.5	-180.0	-169.6	0.00	0.00	0.00	
6,450.0	3.30	212.89	6,440.4	-280.9	-181.6	-171.1	0.00	0.00	0.00	
6,500.0	3.30	212.89	6,490.3	-283.3	-183.2	-172.5	0.00	0.00	0.00	
6,550.0	3.30	212.89	6,540.3	-285.7	-184.7	-174.0	0.00	0.00	0.00	
6,600.0	3.30	212.89	6,590.2	-288.1	-186.3	-175.5	0.00	0.00	0.00	
6,650.0	3.30	212.89	6,640.1	-290.5	-187.9	-176.9	0.00	0.00	0.00	
6,700.0	3.30	212.89	6,690.0	-292.9	-189.4	-178.4	0.00	0.00	0.00	
6,750.0	3.30	212.89	6,739.9	-295.4	-191.0	-179.9	0.00	0.00	0.00	
6,800.0	3.30	212.89	6,789.8	-297.8	-192.5	-181.4	0.00	0.00	0.00	
6,850.0	3.30	212.89	6,839.8	-300.2	-194.1	-182.8	0.00	0.00	0.00	
6,900.0	3.30	212.89	6,889.7	-302.6	-195.7	-184.3	0.00	0.00	0.00	
6,950.0	3.30	212.89	6,939.6	-305.0	-197.2	-185.8	0.00	0.00	0.00	
7,000.0	3.30	212.89	6,989.5	-307.4	-198.8	-187.2	0.00	0.00	0.00	
7,050.0	3.30	212.89	7,039.4	-309.8	-200.3	-188.7	0.00	0.00	0.00	
7,100.0	3.30	212.89	7,089.3	-312.3	-201.9	-190.2	0.00	0.00	0.00	
7,150.0	3.30	212.89	7,139.3	-314.7	-203.5	-191.6	0.00	0.00	0.00	
7,200.0	3.30	212.89	7,189.2	-317.1	-205.0	-193.1	0.00	0.00	0.00	
7,250.0	3.30	212.89	7,239.1	-319.5	-206.6	-194.6	0.00	0.00	0.00	
7,300.0	3.30	212.89	7,289.0	-321.9	-208.1	-196.1	0.00	0.00	0.00	
7,350.0	3.30	212.89	7,338.9	-324.3	-209.7	-197.5	0.00	0.00	0.00	
7,400.0	3.30	212.89	7,388.9	-326.7	-211.3	-199.0	0.00	0.00	0.00	
7,450.0	3.30	212.89	7,438.8	-329.2	-212.8	-200.5	0.00	0.00	0.00	
7,500.0	3.30	212.89	7,488.7	-331.6	-214.4	-201.9	0.00	0.00	0.00	
7,550.0	3.30	212.89	7,538.6	-334.0	-215.9	-203.4	0.00	0.00	0.00	
7,600.0	3.30	212.89	7,588.5	-336.4	-217.5	-204.9	0.00	0.00	0.00	
7,650.0	3.30	212.89	7,638.4	-338.8	-219.1	-206.3	0.00	0.00	0.00	
7,700.0	3.30	212.89	7,688.4	-341.2	-220.6	-207.8	0.00	0.00	0.00	
7,750.0	3.30	212.89	7,738.3	-343.6	-222.2	-209.3	0.00	0.00	0.00	
7,800.0	3.30	212.89	7,788.2	-346.0	-223.8	-210.8	0.00	0.00	0.00	
7,850.0	3.30	212.89	7,838.1	-348.5	-225.3	-212.2	0.00	0.00	0.00	
7,900.0	3.30	212.89	7,888.0	-350.9	-226.9	-213.7	0.00	0.00	0.00	
7,950.0	3.30	212.89	7,937.9	-353.3	-228.4	-215.2	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,000.0	3.30	212.89	7,987.9	-355.7	-230.0	-216.6	0.00	0.00	0.00
8,050.0	3.30	212.89	8,037.8	-358.1	-231.6	-218.1	0.00	0.00	0.00
8,100.0	3.30	212.89	8,087.7	-360.5	-233.1	-219.6	0.00	0.00	0.00
8,150.0	3.30	212.89	8,137.6	-362.9	-234.7	-221.0	0.00	0.00	0.00
8,200.0	3.30	212.89	8,187.5	-365.4	-236.2	-222.5	0.00	0.00	0.00
8,250.0	3.30	212.89	8,237.4	-367.8	-237.8	-224.0	0.00	0.00	0.00
8,300.0	3.30	212.89	8,287.4	-370.2	-239.4	-225.5	0.00	0.00	0.00
8,350.0	3.30	212.89	8,337.3	-372.6	-240.9	-226.9	0.00	0.00	0.00
8,400.0	3.30	212.89	8,387.2	-375.0	-242.5	-228.4	0.00	0.00	0.00
8,450.0	3.30	212.89	8,437.1	-377.4	-244.0	-229.9	0.00	0.00	0.00
8,500.0	3.30	212.89	8,487.0	-379.8	-245.6	-231.3	0.00	0.00	0.00
8,550.0	3.30	212.89	8,536.9	-382.3	-247.2	-232.8	0.00	0.00	0.00
8,600.0	3.30	212.89	8,586.9	-384.7	-248.7	-234.3	0.00	0.00	0.00
8,650.0	3.30	212.89	8,636.8	-387.1	-250.3	-235.7	0.00	0.00	0.00
8,700.0	3.30	212.89	8,686.7	-389.5	-251.8	-237.2	0.00	0.00	0.00
8,750.0	3.30	212.89	8,736.6	-391.9	-253.4	-238.7	0.00	0.00	0.00
8,800.0	3.30	212.89	8,786.5	-394.3	-255.0	-240.2	0.00	0.00	0.00
8,850.0	3.30	212.89	8,836.5	-396.7	-256.5	-241.6	0.00	0.00	0.00
8,900.0	3.30	212.89	8,886.4	-399.2	-258.1	-243.1	0.00	0.00	0.00
8,950.0	3.30	212.89	8,936.3	-401.6	-259.7	-244.6	0.00	0.00	0.00
9,000.0	3.30	212.89	8,986.2	-404.0	-261.2	-246.0	0.00	0.00	0.00
9,042.2	3.30	212.89	9,028.3	-406.0	-262.5	-247.3	0.00	0.00	0.00
9,050.0	3.14	212.89	9,036.1	-406.4	-262.8	-247.5	2.00	-2.00	0.00
9,100.0	2.14	212.89	9,086.1	-408.3	-264.0	-248.7	2.00	-2.00	0.00
9,150.0	1.14	212.89	9,136.0	-409.5	-264.8	-249.4	2.00	-2.00	0.00
9,200.0	0.14	212.89	9,186.0	-410.0	-265.1	-249.7	2.00	-2.00	0.00
9,207.0	0.00	0.00	9,193.0	-410.0	-265.1	-249.7	2.00	-2.00	0.00
KOP: 1980' FNL & 10' FWL (Sec 1)									
9,250.0	4.30	89.79	9,236.0	-410.0	-263.5	-248.1	10.00	10.00	0.00
9,300.0	9.30	89.79	9,285.6	-410.0	-257.6	-242.2	10.00	10.00	0.00
9,350.0	14.30	89.79	9,334.6	-409.9	-247.3	-232.0	10.00	10.00	0.00
9,400.0	19.30	89.79	9,382.4	-409.9	-232.9	-217.5	10.00	10.00	0.00
9,450.0	24.30	89.79	9,428.8	-409.8	-214.3	-199.0	10.00	10.00	0.00
9,500.0	29.30	89.79	9,473.4	-409.7	-191.8	-176.4	10.00	10.00	0.00
9,532.5	32.55	89.79	9,501.3	-409.7	-175.1	-159.8	10.00	10.00	0.00
FTP: 1980' FNL & 100' FWL (Sec 1)									
9,550.0	34.30	89.79	9,515.9	-409.6	-165.4	-150.1	10.00	10.00	0.00
9,600.0	39.30	89.79	9,555.9	-409.5	-135.5	-120.2	10.00	10.00	0.00
9,650.0	44.30	89.79	9,593.2	-409.4	-102.2	-86.9	10.00	10.00	0.00
9,700.0	49.30	89.79	9,627.4	-409.3	-65.7	-50.5	10.00	10.00	0.00
9,750.0	54.30	89.79	9,658.3	-409.1	-26.5	-11.3	10.00	10.00	0.00
9,800.0	59.30	89.79	9,685.7	-409.0	15.4	30.5	10.00	10.00	0.00
9,850.0	64.30	89.79	9,709.3	-408.8	59.4	74.5	10.00	10.00	0.00
9,900.0	69.30	89.79	9,729.0	-408.7	105.4	120.4	10.00	10.00	0.00
9,950.0	74.30	89.79	9,744.6	-408.5	152.8	167.9	10.00	10.00	0.00
10,000.0	79.30	89.79	9,756.0	-408.3	201.5	216.5	10.00	10.00	0.00
10,050.0	84.30	89.79	9,763.2	-408.1	251.0	265.9	10.00	10.00	0.00
10,100.0	89.30	89.79	9,766.0	-408.0	300.9	315.8	10.00	10.00	0.00
10,107.0	90.00	89.79	9,766.0	-407.9	307.9	322.8	10.00	10.00	0.00
LP: 1980' FNL & 583' FWL (Sec 1)									
10,150.0	90.00	89.79	9,766.0	-407.8	350.9	365.8	0.00	0.00	0.00
10,200.0	90.00	89.79	9,766.0	-407.6	400.9	415.7	0.00	0.00	0.00
10,250.0	90.00	89.79	9,766.0	-407.4	450.9	465.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	90.00	89.79	9,766.0	-407.2	500.9	515.6	0.00	0.00	0.00
10,350.0	90.00	89.79	9,766.0	-407.1	550.9	565.6	0.00	0.00	0.00
10,400.0	90.00	89.79	9,766.0	-406.9	600.9	615.6	0.00	0.00	0.00
10,450.0	90.00	89.79	9,766.0	-406.7	650.9	665.5	0.00	0.00	0.00
10,500.0	90.00	89.79	9,766.0	-406.5	700.9	715.5	0.00	0.00	0.00
10,550.0	90.00	89.79	9,766.0	-406.3	750.9	765.4	0.00	0.00	0.00
10,600.0	90.00	89.79	9,766.0	-406.2	800.9	815.4	0.00	0.00	0.00
10,650.0	90.00	89.79	9,766.0	-406.0	850.9	865.4	0.00	0.00	0.00
10,700.0	90.00	89.79	9,766.0	-405.8	900.9	915.3	0.00	0.00	0.00
10,750.0	90.00	89.79	9,766.0	-405.6	950.9	965.3	0.00	0.00	0.00
10,800.0	90.00	89.79	9,766.0	-405.4	1,000.9	1,015.2	0.00	0.00	0.00
10,850.0	90.00	89.79	9,766.0	-405.3	1,050.9	1,065.2	0.00	0.00	0.00
10,900.0	90.00	89.79	9,766.0	-405.1	1,100.9	1,115.1	0.00	0.00	0.00
10,950.0	90.00	89.79	9,766.0	-404.9	1,150.9	1,165.1	0.00	0.00	0.00
11,000.0	90.00	89.79	9,766.0	-404.7	1,200.9	1,215.1	0.00	0.00	0.00
11,050.0	90.00	89.79	9,766.0	-404.5	1,250.9	1,265.0	0.00	0.00	0.00
11,100.0	90.00	89.79	9,766.0	-404.4	1,300.9	1,315.0	0.00	0.00	0.00
11,150.0	90.00	89.79	9,766.0	-404.2	1,350.9	1,364.9	0.00	0.00	0.00
11,200.0	90.00	89.79	9,766.0	-404.0	1,400.9	1,414.9	0.00	0.00	0.00
11,250.0	90.00	89.79	9,766.0	-403.8	1,450.9	1,464.9	0.00	0.00	0.00
11,300.0	90.00	89.79	9,766.0	-403.6	1,500.9	1,514.8	0.00	0.00	0.00
11,350.0	90.00	89.79	9,766.0	-403.5	1,550.9	1,564.8	0.00	0.00	0.00
11,400.0	90.00	89.79	9,766.0	-403.3	1,600.9	1,614.7	0.00	0.00	0.00
11,450.0	90.00	89.79	9,766.0	-403.1	1,650.9	1,664.7	0.00	0.00	0.00
11,500.0	90.00	89.79	9,766.0	-402.9	1,700.9	1,714.6	0.00	0.00	0.00
11,550.0	90.00	89.79	9,766.0	-402.7	1,750.9	1,764.6	0.00	0.00	0.00
11,600.0	90.00	89.79	9,766.0	-402.6	1,800.9	1,814.6	0.00	0.00	0.00
11,650.0	90.00	89.79	9,766.0	-402.4	1,850.9	1,864.5	0.00	0.00	0.00
11,700.0	90.00	89.79	9,766.0	-402.2	1,900.9	1,914.5	0.00	0.00	0.00
11,750.0	90.00	89.79	9,766.0	-402.0	1,950.9	1,964.4	0.00	0.00	0.00
11,800.0	90.00	89.79	9,766.0	-401.8	2,000.9	2,014.4	0.00	0.00	0.00
11,850.0	90.00	89.79	9,766.0	-401.7	2,050.9	2,064.4	0.00	0.00	0.00
11,900.0	90.00	89.79	9,766.0	-401.5	2,100.9	2,114.3	0.00	0.00	0.00
11,950.0	90.00	89.79	9,766.0	-401.3	2,150.9	2,164.3	0.00	0.00	0.00
12,000.0	90.00	89.79	9,766.0	-401.1	2,200.9	2,214.2	0.00	0.00	0.00
12,050.0	90.00	89.79	9,766.0	-400.9	2,250.9	2,264.2	0.00	0.00	0.00
12,100.0	90.00	89.79	9,766.0	-400.8	2,300.9	2,314.1	0.00	0.00	0.00
12,147.5	90.00	89.79	9,766.0	-400.6	2,348.4	2,361.6	0.00	0.00	0.00
PPP2: 1973' FNL & 2624' FWL (Sec 1)									
12,150.0	90.00	89.79	9,766.0	-400.6	2,350.9	2,364.1	0.00	0.00	0.00
12,200.0	90.00	89.79	9,766.0	-400.4	2,400.9	2,414.1	0.00	0.00	0.00
12,250.0	90.00	89.79	9,766.0	-400.2	2,450.9	2,464.0	0.00	0.00	0.00
12,300.0	90.00	89.79	9,766.0	-400.0	2,500.9	2,514.0	0.00	0.00	0.00
12,350.0	90.00	89.79	9,766.0	-399.9	2,550.9	2,563.9	0.00	0.00	0.00
12,400.0	90.00	89.79	9,766.0	-399.7	2,600.9	2,613.9	0.00	0.00	0.00
12,450.0	90.00	89.79	9,766.0	-399.5	2,650.9	2,663.9	0.00	0.00	0.00
12,500.0	90.00	89.79	9,766.0	-399.3	2,700.9	2,713.8	0.00	0.00	0.00
12,550.0	90.00	89.79	9,766.0	-399.1	2,750.9	2,763.8	0.00	0.00	0.00
12,600.0	90.00	89.79	9,766.0	-399.0	2,800.9	2,813.7	0.00	0.00	0.00
12,650.0	90.00	89.79	9,766.0	-398.8	2,850.9	2,863.7	0.00	0.00	0.00
12,700.0	90.00	89.79	9,766.0	-398.6	2,900.9	2,913.7	0.00	0.00	0.00
12,750.0	90.00	89.79	9,766.0	-398.4	2,950.9	2,963.6	0.00	0.00	0.00
12,800.0	90.00	89.79	9,766.0	-398.2	3,000.9	3,013.6	0.00	0.00	0.00
12,850.0	90.00	89.79	9,766.0	-398.1	3,050.9	3,063.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.0	90.00	89.79	9,766.0	-397.9	3,100.9	3,113.5	0.00	0.00	0.00
12,950.0	90.00	89.79	9,766.0	-397.7	3,150.9	3,163.4	0.00	0.00	0.00
13,000.0	90.00	89.79	9,766.0	-397.5	3,200.9	3,213.4	0.00	0.00	0.00
13,050.0	90.00	89.79	9,766.0	-397.3	3,250.9	3,263.4	0.00	0.00	0.00
13,100.0	90.00	89.79	9,766.0	-397.2	3,300.9	3,313.3	0.00	0.00	0.00
13,150.0	90.00	89.79	9,766.0	-397.0	3,350.9	3,363.3	0.00	0.00	0.00
13,200.0	90.00	89.79	9,766.0	-396.8	3,400.9	3,413.2	0.00	0.00	0.00
13,250.0	90.00	89.79	9,766.0	-396.6	3,450.9	3,463.2	0.00	0.00	0.00
13,300.0	90.00	89.79	9,766.0	-396.4	3,500.9	3,513.2	0.00	0.00	0.00
13,350.0	90.00	89.79	9,766.0	-396.3	3,550.9	3,563.1	0.00	0.00	0.00
13,400.0	90.00	89.79	9,766.0	-396.1	3,600.9	3,613.1	0.00	0.00	0.00
13,450.0	90.00	89.79	9,766.0	-395.9	3,650.9	3,663.0	0.00	0.00	0.00
13,500.0	90.00	89.79	9,766.0	-395.7	3,700.9	3,713.0	0.00	0.00	0.00
13,550.0	90.00	89.79	9,766.0	-395.5	3,750.9	3,762.9	0.00	0.00	0.00
13,600.0	90.00	89.79	9,766.0	-395.4	3,800.9	3,812.9	0.00	0.00	0.00
13,650.0	90.00	89.79	9,766.0	-395.2	3,850.9	3,862.9	0.00	0.00	0.00
13,700.0	90.00	89.79	9,766.0	-395.0	3,900.9	3,912.8	0.00	0.00	0.00
13,750.0	90.00	89.79	9,766.0	-394.8	3,950.9	3,962.8	0.00	0.00	0.00
13,800.0	90.00	89.79	9,766.0	-394.6	4,000.9	4,012.7	0.00	0.00	0.00
13,850.0	90.00	89.79	9,766.0	-394.5	4,050.8	4,062.7	0.00	0.00	0.00
13,900.0	90.00	89.79	9,766.0	-394.3	4,100.8	4,112.7	0.00	0.00	0.00
13,950.0	90.00	89.79	9,766.0	-394.1	4,150.8	4,162.6	0.00	0.00	0.00
14,000.0	90.00	89.79	9,766.0	-393.9	4,200.8	4,212.6	0.00	0.00	0.00
14,050.0	90.00	89.79	9,766.0	-393.7	4,250.8	4,262.5	0.00	0.00	0.00
14,100.0	90.00	89.79	9,766.0	-393.6	4,300.8	4,312.5	0.00	0.00	0.00
14,150.0	90.00	89.79	9,766.0	-393.4	4,350.8	4,362.4	0.00	0.00	0.00
14,200.0	90.00	89.79	9,766.0	-393.2	4,400.8	4,412.4	0.00	0.00	0.00
14,250.0	90.00	89.79	9,766.0	-393.0	4,450.8	4,462.4	0.00	0.00	0.00
14,300.0	90.00	89.79	9,766.0	-392.8	4,500.8	4,512.3	0.00	0.00	0.00
14,350.0	90.00	89.79	9,766.0	-392.7	4,550.8	4,562.3	0.00	0.00	0.00
14,400.0	90.00	89.79	9,766.0	-392.5	4,600.8	4,612.2	0.00	0.00	0.00
14,450.0	90.00	89.79	9,766.0	-392.3	4,650.8	4,662.2	0.00	0.00	0.00
14,500.0	90.00	89.79	9,766.0	-392.1	4,700.8	4,712.2	0.00	0.00	0.00
14,550.0	90.00	89.79	9,766.0	-391.9	4,750.8	4,762.1	0.00	0.00	0.00
14,600.0	90.00	89.79	9,766.0	-391.8	4,800.8	4,812.1	0.00	0.00	0.00
14,650.0	90.00	89.79	9,766.0	-391.6	4,850.8	4,862.0	0.00	0.00	0.00
14,700.0	90.00	89.79	9,766.0	-391.4	4,900.8	4,912.0	0.00	0.00	0.00
14,750.0	90.00	89.79	9,766.0	-391.2	4,950.8	4,962.0	0.00	0.00	0.00
14,786.9	90.00	89.79	9,766.0	-391.1	4,987.7	4,998.8	0.00	0.00	0.00
PPP3: 1970' FNL & 0' FWL (Sec 6)									
14,800.0	90.00	89.79	9,766.0	-391.0	5,000.8	5,011.9	0.00	0.00	0.00
14,850.0	90.00	89.79	9,766.0	-390.9	5,050.8	5,061.9	0.00	0.00	0.00
14,900.0	90.00	89.79	9,766.0	-390.7	5,100.8	5,111.8	0.00	0.00	0.00
14,950.0	90.00	89.79	9,766.0	-390.5	5,150.8	5,161.8	0.00	0.00	0.00
15,000.0	90.00	89.79	9,766.0	-390.3	5,200.8	5,211.7	0.00	0.00	0.00
15,050.0	90.00	89.79	9,766.0	-390.1	5,250.8	5,261.7	0.00	0.00	0.00
15,100.0	90.00	89.79	9,766.0	-390.0	5,300.8	5,311.7	0.00	0.00	0.00
15,150.0	90.00	89.79	9,766.0	-389.8	5,350.8	5,361.6	0.00	0.00	0.00
15,200.0	90.00	89.79	9,766.0	-389.6	5,400.8	5,411.6	0.00	0.00	0.00
15,250.0	90.00	89.79	9,766.0	-389.4	5,450.8	5,461.5	0.00	0.00	0.00
15,300.0	90.00	89.79	9,766.0	-389.2	5,500.8	5,511.5	0.00	0.00	0.00
15,350.0	90.00	89.79	9,766.0	-389.1	5,550.8	5,561.5	0.00	0.00	0.00
15,400.0	90.00	89.79	9,766.0	-388.9	5,600.8	5,611.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,450.0	90.00	89.79	9,766.0	-388.7	5,650.8	5,661.4	0.00	0.00	0.00	
15,500.0	90.00	89.79	9,766.0	-388.5	5,700.8	5,711.3	0.00	0.00	0.00	
15,550.0	90.00	89.79	9,766.0	-388.3	5,750.8	5,761.3	0.00	0.00	0.00	
15,600.0	90.00	89.79	9,766.0	-388.2	5,800.8	5,811.2	0.00	0.00	0.00	
15,650.0	90.00	89.79	9,766.0	-388.0	5,850.8	5,861.2	0.00	0.00	0.00	
15,700.0	90.00	89.79	9,766.0	-387.8	5,900.8	5,911.2	0.00	0.00	0.00	
15,750.0	90.00	89.79	9,766.0	-387.6	5,950.8	5,961.1	0.00	0.00	0.00	
15,800.0	90.00	89.79	9,766.0	-387.4	6,000.8	6,011.1	0.00	0.00	0.00	
15,850.0	90.00	89.79	9,766.0	-387.3	6,050.8	6,061.0	0.00	0.00	0.00	
15,900.0	90.00	89.79	9,766.0	-387.1	6,100.8	6,111.0	0.00	0.00	0.00	
15,950.0	90.00	89.79	9,766.0	-386.9	6,150.8	6,161.0	0.00	0.00	0.00	
15,981.2	90.00	89.79	9,766.0	-386.8	6,182.0	6,192.1	0.00	0.00	0.00	
PPP4: 1972' FNL & 1195' FWL (Sec 6)										
16,000.0	90.00	89.79	9,766.0	-386.7	6,200.8	6,210.9	0.00	0.00	0.00	
16,050.0	90.00	89.79	9,766.0	-386.5	6,250.8	6,260.9	0.00	0.00	0.00	
16,100.0	90.00	89.79	9,766.0	-386.4	6,300.8	6,310.8	0.00	0.00	0.00	
16,150.0	90.00	89.79	9,766.0	-386.2	6,350.8	6,360.8	0.00	0.00	0.00	
16,200.0	90.00	89.79	9,766.0	-386.0	6,400.8	6,410.8	0.00	0.00	0.00	
16,250.0	90.00	89.79	9,766.0	-385.8	6,450.8	6,460.7	0.00	0.00	0.00	
16,300.0	90.00	89.79	9,766.0	-385.6	6,500.8	6,510.7	0.00	0.00	0.00	
16,350.0	90.00	89.79	9,766.0	-385.5	6,550.8	6,560.6	0.00	0.00	0.00	
16,400.0	90.00	89.79	9,766.0	-385.3	6,600.8	6,610.6	0.00	0.00	0.00	
16,450.0	90.00	89.79	9,766.0	-385.1	6,650.8	6,660.5	0.00	0.00	0.00	
16,500.0	90.00	89.79	9,766.0	-384.9	6,700.8	6,710.5	0.00	0.00	0.00	
16,550.0	90.00	89.79	9,766.0	-384.7	6,750.8	6,760.5	0.00	0.00	0.00	
16,600.0	90.00	89.79	9,766.0	-384.6	6,800.8	6,810.4	0.00	0.00	0.00	
16,650.0	90.00	89.79	9,766.0	-384.4	6,850.8	6,860.4	0.00	0.00	0.00	
16,700.0	90.00	89.79	9,766.0	-384.2	6,900.8	6,910.3	0.00	0.00	0.00	
16,750.0	90.00	89.79	9,766.0	-384.0	6,950.8	6,960.3	0.00	0.00	0.00	
16,800.0	90.00	89.79	9,766.0	-383.8	7,000.8	7,010.3	0.00	0.00	0.00	
16,850.0	90.00	89.79	9,766.0	-383.7	7,050.8	7,060.2	0.00	0.00	0.00	
16,900.0	90.00	89.79	9,766.0	-383.5	7,100.8	7,110.2	0.00	0.00	0.00	
16,950.0	90.00	89.79	9,766.0	-383.3	7,150.8	7,160.1	0.00	0.00	0.00	
17,000.0	90.00	89.79	9,766.0	-383.1	7,200.8	7,210.1	0.00	0.00	0.00	
17,050.0	90.00	89.79	9,766.0	-382.9	7,250.8	7,260.0	0.00	0.00	0.00	
17,100.0	90.00	89.79	9,766.0	-382.8	7,300.8	7,310.0	0.00	0.00	0.00	
17,150.0	90.00	89.79	9,766.0	-382.6	7,350.8	7,360.0	0.00	0.00	0.00	
17,200.0	90.00	89.79	9,766.0	-382.4	7,400.8	7,409.9	0.00	0.00	0.00	
17,250.0	90.00	89.79	9,766.0	-382.2	7,450.8	7,459.9	0.00	0.00	0.00	
17,300.0	90.00	89.79	9,766.0	-382.0	7,500.8	7,509.8	0.00	0.00	0.00	
17,350.0	90.00	89.79	9,766.0	-381.9	7,550.8	7,559.8	0.00	0.00	0.00	
17,400.0	90.00	89.79	9,766.0	-381.7	7,600.8	7,609.8	0.00	0.00	0.00	
17,450.0	90.00	89.79	9,766.0	-381.5	7,650.8	7,659.7	0.00	0.00	0.00	
17,500.0	90.00	89.79	9,766.0	-381.3	7,700.8	7,709.7	0.00	0.00	0.00	
17,550.0	90.00	89.79	9,766.0	-381.1	7,750.8	7,759.6	0.00	0.00	0.00	
17,600.0	90.00	89.79	9,766.0	-381.0	7,800.8	7,809.6	0.00	0.00	0.00	
17,650.0	90.00	89.79	9,766.0	-380.8	7,850.8	7,859.5	0.00	0.00	0.00	
17,700.0	90.00	89.79	9,766.0	-380.6	7,900.8	7,909.5	0.00	0.00	0.00	
17,750.0	90.00	89.79	9,766.0	-380.4	7,950.8	7,959.5	0.00	0.00	0.00	
17,800.0	90.00	89.79	9,766.0	-380.2	8,000.8	8,009.4	0.00	0.00	0.00	
17,850.0	90.00	89.79	9,766.0	-380.1	8,050.8	8,059.4	0.00	0.00	0.00	
17,900.0	90.00	89.79	9,766.0	-379.9	8,100.8	8,109.3	0.00	0.00	0.00	
17,950.0	90.00	89.79	9,766.0	-379.7	8,150.8	8,159.3	0.00	0.00	0.00	
18,000.0	90.00	89.79	9,766.0	-379.5	8,200.8	8,209.3	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
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)
18,050.0	90.00	89.79	9,766.0	-379.3	8,250.8	8,259.2	0.00	0.00	0.00
18,100.0	90.00	89.79	9,766.0	-379.2	8,300.8	8,309.2	0.00	0.00	0.00
18,150.0	90.00	89.79	9,766.0	-379.0	8,350.8	8,359.1	0.00	0.00	0.00
18,200.0	90.00	89.79	9,766.0	-378.8	8,400.8	8,409.1	0.00	0.00	0.00
18,250.0	90.00	89.79	9,766.0	-378.6	8,450.8	8,459.1	0.00	0.00	0.00
18,300.0	90.00	89.79	9,766.0	-378.4	8,500.8	8,509.0	0.00	0.00	0.00
18,350.0	90.00	89.79	9,766.0	-378.3	8,550.8	8,559.0	0.00	0.00	0.00
18,400.0	90.00	89.79	9,766.0	-378.1	8,600.8	8,608.9	0.00	0.00	0.00
18,450.0	90.00	89.79	9,766.0	-377.9	8,650.8	8,658.9	0.00	0.00	0.00
18,500.0	90.00	89.79	9,766.0	-377.7	8,700.8	8,708.8	0.00	0.00	0.00
18,550.0	90.00	89.79	9,766.0	-377.5	8,750.8	8,758.8	0.00	0.00	0.00
18,600.0	90.00	89.79	9,766.0	-377.4	8,800.8	8,808.8	0.00	0.00	0.00
18,650.0	90.00	89.79	9,766.0	-377.2	8,850.8	8,858.7	0.00	0.00	0.00
18,700.0	90.00	89.79	9,766.0	-377.0	8,900.8	8,908.7	0.00	0.00	0.00
18,750.0	90.00	89.79	9,766.0	-376.8	8,950.8	8,958.6	0.00	0.00	0.00
18,800.0	90.00	89.79	9,766.0	-376.6	9,000.8	9,008.6	0.00	0.00	0.00
18,850.0	90.00	89.79	9,766.0	-376.5	9,050.8	9,058.6	0.00	0.00	0.00
18,900.0	90.00	89.79	9,766.0	-376.3	9,100.8	9,108.5	0.00	0.00	0.00
18,950.0	90.00	89.79	9,766.0	-376.1	9,150.8	9,158.5	0.00	0.00	0.00
19,000.0	90.00	89.79	9,766.0	-375.9	9,200.8	9,208.4	0.00	0.00	0.00
19,050.0	90.00	89.79	9,766.0	-375.7	9,250.8	9,258.4	0.00	0.00	0.00
19,100.0	90.00	89.79	9,766.0	-375.6	9,300.8	9,308.3	0.00	0.00	0.00
19,150.0	90.00	89.79	9,766.0	-375.4	9,350.8	9,358.3	0.00	0.00	0.00
19,200.0	90.00	89.79	9,766.0	-375.2	9,400.8	9,408.3	0.00	0.00	0.00
19,250.0	90.00	89.79	9,766.0	-375.0	9,450.8	9,458.2	0.00	0.00	0.00
19,300.0	90.00	89.79	9,766.0	-374.8	9,500.8	9,508.2	0.00	0.00	0.00
19,350.0	90.00	89.79	9,766.0	-374.7	9,550.8	9,558.1	0.00	0.00	0.00
19,400.0	90.00	89.79	9,766.0	-374.5	9,600.8	9,608.1	0.00	0.00	0.00
19,450.0	90.00	89.79	9,766.0	-374.3	9,650.8	9,658.1	0.00	0.00	0.00
19,500.0	90.00	89.79	9,766.0	-374.1	9,700.8	9,708.0	0.00	0.00	0.00
19,550.0	90.00	89.79	9,766.0	-373.9	9,750.8	9,758.0	0.00	0.00	0.00
19,600.0	90.00	89.79	9,766.0	-373.8	9,800.8	9,807.9	0.00	0.00	0.00
19,650.0	90.00	89.79	9,766.0	-373.6	9,850.8	9,857.9	0.00	0.00	0.00
19,700.0	90.00	89.79	9,766.0	-373.4	9,900.8	9,907.8	0.00	0.00	0.00
19,750.0	90.00	89.79	9,766.0	-373.2	9,950.8	9,957.8	0.00	0.00	0.00
19,800.0	90.00	89.79	9,766.0	-373.0	10,000.8	10,007.8	0.00	0.00	0.00
19,841.0	90.00	89.79	9,766.0	-372.9	10,041.8	10,048.7	0.00	0.00	0.00
BHL: 1980' FNL & 100' FEL (Sec 6)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Tin Man 1/6 Fed Com #623H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3556.0usft (Original Wellbore)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3556.0usft (Original Wellbore)
Site:	Tin Man 1/6 Fed Com #623H	North Reference:	Grid
Well:	Sec 01, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FNL & 100' FEL (Sec 6)		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
SHL: 1570' FNL & 280' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	615,837.10	664,457.80	32.6923409	-103.9331207
KOP: 1980' FNL & 10' F - plan hits target center - Point	0.00	0.00	9,193.0	-410.0	-265.1	615,427.10	664,192.70	32.6912167	-103.9339874
FTP: 1980' FNL & 100' F - plan hits target center - Point	0.00	0.01	9,501.3	-409.7	-175.1	615,427.40	664,282.70	32.6912166	-103.9336948
PPP3: 1970' FNL & 0' F - plan hits target center - Point	0.00	0.00	9,766.0	-391.1	4,987.7	615,446.01	669,445.50	32.6912131	-103.9169131
PPP4: 1972' FNL & 119' F - plan hits target center - Point	0.00	0.00	9,766.0	-386.8	6,182.0	615,450.31	670,639.80	32.6912120	-103.9130310
LP: 1980' FNL & 583' FV - plan misses target center by 2.3usft at 10107.0usft MD (9766.0 TVD, -407.9 N, 307.9 E) - Point	0.00	0.00	9,766.0	-410.2	307.9	615,426.90	664,765.70	32.6912102	-103.9321249
PPP2: 1973' FNL & 262' F - plan hits target center - Point	0.00	0.00	9,766.0	-400.6	2,348.4	615,436.51	666,806.20	32.6912152	-103.9254922
BHL: 1980' FNL & 100' F - plan hits target center - Point	0.00	0.00	9,766.0	-372.9	10,041.8	615,464.20	674,499.60	32.6912075	-103.9004847

Mewbourne Oil Company, Tin Man 1/6 Fed Com 623H**Sec 1, T19S, R30E****SHL: 1570' FNL 280' FWL (Sec 1)****BHL: 1980' FNL 100' FEL (Sec 6)**

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Tin Man 1/6 Fed Com	623H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	1	19	30	4	1980'	FNL	10'	FWL	Eddy
Latitude					Longitude			NAD	
32.6912165					-103.9339873			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	1	19	30	4	1980'	FNL	100'	FWL	Eddy
Latitude					Longitude			NAD	
32.6912158					-103.9336949			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	6	19	31	1	1980'	FNL	100'	FEL	Eddy
Latitude					Longitude			NAD	
32.6912075					-103.9004846			83	

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

Y

Is this well an infill well?

N

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.:	TIN MAN 1/6 FED COM 623H
APD ID:	10400100727
LOCATION:	Section 1, T.19 S., R.30 E. NMP.
COUNTY:	Eddy County, New Mexico ▼

COA

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

A. HYDROGEN SULFIDE

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

B. CASING DESIGN

Primary Casing Program

1. The **13-3/8** inch surface casing shall be set at approximately **540 ft.** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

- hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8** inch intermediate casing shall be set in a competent bed at approximately **2,200 ft.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

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

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

- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In High Cave/Karst area if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. Operator has proposed to set **7 in.** production casing at approximately **9,207 ft. (9,193 ft. TVD)** The minimum required fill of cement behind the **7 in.** production casing is:

Option 1 (Single Stage): Cement should tie-back **at least 500 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst, and Potash.**

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

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. **Second stage above DV tool:** Cement should tie-back **at least 500 feet** into previous casing string. Operator shall provide method of verification. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst, and Potash.**

4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:
 - Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

Alternate Casing Program

1. The **13-3/8 inch** surface casing shall be set at approximately **540 ft.** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8 inch** intermediate casing shall be set in a competent bed at approximately **2,200 ft.** The minimum required fill of cement behind the **9-5/8 inch** intermediate casing is:
 - **Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst, and Potash.**

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

- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In High Cave/Karst area if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. Operator has proposed to set **7 in.** production casing at approximately **10,107 ft. (9,766 ft. TVD)** The minimum required fill of cement behind the **7 in.** production casing is:

Option 1 (Single Stage): Cement should tie-back **at least 500 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst, and Potash**.

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

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. **Second stage above DV tool:** Cement should tie-back **at least 500 feet** into previous casing string. Operator shall provide method of verification. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst, and Potash**.
4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:
- Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **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**. BOP and BOPE shall be tested in accordance with title **43 CFR 3172**.
 - 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. 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.
- v. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

BOPE Break Testing Variance (Utilizing a 10M BOPE system)

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

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 02/25/2025

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

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

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

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

3. Hydrogen Sulfide Protection and Monitoring Equipment
Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.
4. Visual Warning Systems
 - A. Wind direction indicators as indicated on the wellsite diagram.
 - B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. **Mud Program**

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

5. **Metallurgy**

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

6. **Communications**

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

7. **Well Testing**

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

8. **Emergency Phone Numbers**

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

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

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

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TIN MAN 1/6 FED COM**Well Number:** 623H**Disposal location description:** City of Carlsbad Water Treatment facility**Waste type:** GARBAGE**Waste content description:** Garbage & Trash**Amount of waste:** 1500 pounds**Waste disposal frequency :** One Time Only**Safe containment description:** Enclosed trash trailer**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** Waste Management facility in Carlsbad.

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**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TIN MAN 1/6 FED COM

Well Number: 623H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

TIN_MAN_1_6_FED_COM_623HWellsitelayout_20240829063828.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: TIN MAN 1/6 FED COM 601H 623H

Multiple Well Pad Number: 2

Recontouring

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance (acres): 5.78	Well pad interim reclamation (acres): 0.74	Well pad long term disturbance (acres): 5.04
Road proposed disturbance (acres): 0.18	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0.43	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 6.39	Total interim reclamation: 0.74	Total long term disturbance: 5.04

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 ration, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 440854

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 440854
	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.	3/10/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	3/10/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	3/24/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	3/24/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	3/24/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	3/24/2025