Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM558579

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.: BILBREY 34/27 B1OB FED COM 1H

2. Name of Operator: MEWBOURNE OIL COMPANY

9. API Well No.: 30-025-53648

3a. Address: P O BOX 5270, HOBBS, NM 88241

3b. Phone No. *(include area code)*: (575) 393-5905

10. Field and Pool, or Exploratory: BILBREY BASIN BONE SPRING/BONE S

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SESE / 205 FSL / 1100 FEL / LAT 32.4285671 / LONG -103.6576267

At proposed prod. zone: NWNE / 100 FNL / 2110 FEL / LAT 32.4567733 / LONG -103.6608765

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 34/T21S/R32E/NMP

14. Distance in miles and direction from nearest town or post office*: 20 miles

12. County or Parish: LEA

13. State: NM

15. 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: 560.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 50 feet

19. Proposed Depth: 9887 feet / 20230 feet

20. BLM/BIA Bond No. in file: FED: NM 1693

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3714 feet

22. Approximate date work will start*: 07/26/2022

23. Estimated duration: 60 days

24. Attachments

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

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

25. Signature: (Electronic Submission)

Name *(Printed/Typed)*: BRADLEY BISHOP / Ph: (575) 393-5905

Date: 07/29/2022

Title: Regulatory

Approved by *(Signature)*: (Electronic Submission)

Name *(Printed/Typed)*: CODY LAYTON / Ph: (575) 234-5959

Date: 09/25/2024

Title: Assistant Field Manager Lands & Minerals

Office: Carlsbad Field Office

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

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

APPROVED WITH CONDITIONS

Approval Date: 09/25/2024

(Continued on page 2)

*(Instructions on page 2)

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-53648	5695	BILBREY BASIN;BONE SPRING

Property Code	Property Name	Well Number
336295	BILBREY 34/27 B1OB FED COM	1H

OGRID No.	Operator Name	Ground Level Elevation
14744	MEWBOURNE OIL COMPANY	3714

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

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	34	21S	32E		205 FSL	1100 FEL	32.4285671	-103.6576269	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	27	21S	32E		100 FNL	2110 FEL	32.4567733	-103.6608763	LEA

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

Order Numbers. | Well setbacks are under Common Ownership: ☐Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	34	21S	32E		10 FSL	2110 FEL	32.4280170	-103.6609007	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	34	21S	32E		100 FSL	2110 FEL	32.4282658	-103.6609005	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	27	21S	32E		100 FNL	2110 FEL	32.4567733	-103.6608765	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:

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.

Andrew W Taylor — Signature — 9/25/24 — Date

ANDY TAYLOR — Printed Name

ATAYLOR@MEWBOURNE.COM — Email Address

SURVEYOR CERTIFICATIONS

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

Signature and Seal of Professional Surveyor

Certificate Number

Date of Survey

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
	5695	Bilbrey Basin; Bone Spring

4 Property Code	5 Property Name	6 Well Number
	BILBREY 34/27 B1OB FED COM	1H

7 OGRID NO.	8 Operator Name	9 Elevation
14744	MEWBOURNE OIL COMPANY	3714'

10 Surface Location

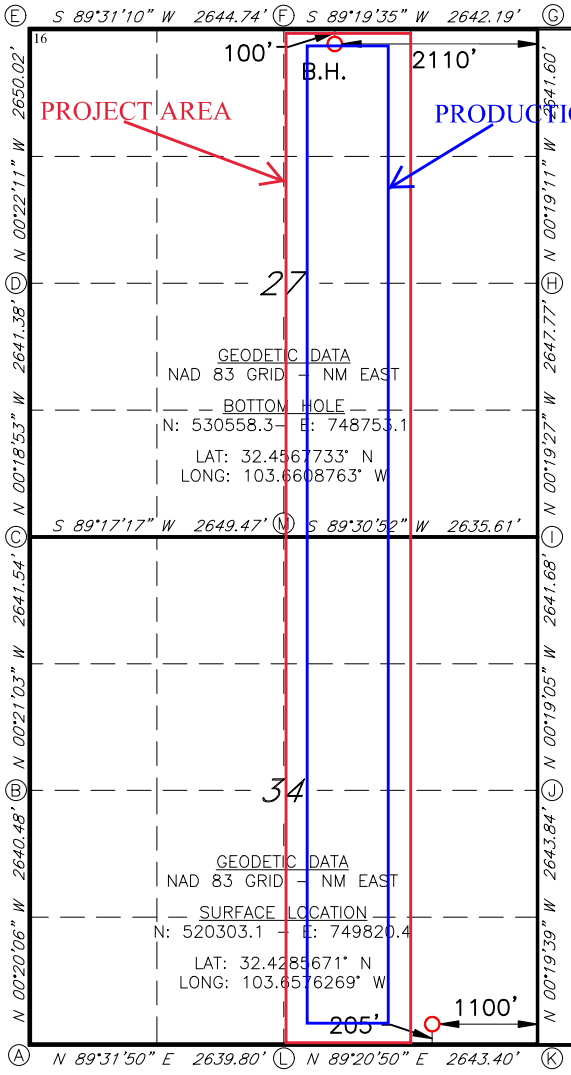
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
P	34	21S	32E		205	SOUTH	1100	EAST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	27	21S	32E		100	NORTH	2110	EAST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

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



CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1916"
N: 520058.9 – E: 745639.7

B: FOUND BRASS CAP "1916"
N: 522698.8 – E: 745624.2

C: FOUND BRASS CAP "1916"
N: 525339.7 – E: 745608.1

D: FOUND BRASS CAP "1916"
N: 527980.4 – E: 745593.6

E: FOUND BRASS CAP "1916"
N: 530629.8 – E: 745576.5

F: FOUND BRASS CAP "1916"
N: 530652.0 – E: 748220.5

G: FOUND BRASS CAP "1916"
N: 530683.1 – E: 750862.0

H: FOUND BRASS CAP "1916"
N: 528042.1 – E: 750876.7

I: FOUND BRASS CAP "1916"
N: 525394.9 – E: 750891.7

J: FOUND BRASS CAP "1916"
N: 522753.9 – E: 750906.4

K: FOUND BRASS CAP "1916"
N: 520110.6 – E: 750921.5

L: FOUND BRASS CAP "1916"
N: 520080.5 – E: 748278.8

M: FOUND BRASS CAP "1916"
N: 525372.6 – E: 748256.8

17 OPERATOR CERTIFICATION

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

Andrew W Taylor 6/10/22
Signature Date

ANDY TAYLOR
Printed Name

ATAYLOR@MEWBOURNE.COM
E-mail Address

18 SURVEYOR CERTIFICATION

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

04/04/2022
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

19680
Certificate Number

Job No.: LS22040395

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Mewbourne Oil Co. **OGRID:** 14744 **Date:** 5/2/22

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Bilbrey 34/27 B1OB Fed Com 1H		P 34 21S 32E	205' FSL x 1100' FEL	1500	2500	4000

IV. Central Delivery Point Name: Bilbrey 34/27 B1OB Fed Com 1H [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Bilbrey 34/27 B1OB Fed Com 1H		7/2/22	8/2/22	9/2/22	9/17/22	9/17/22

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

Page 8

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

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	5/2/22
Phone:	575-393-5905

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.

VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8 :

A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.

B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.

C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.

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

E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.

F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

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

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

AFMSS

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

Drilling Plan Data Report
09/25/2024

APD ID: 10400086096
Submission Date: 07/29/2022

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM
Well Number: 1H

Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14212387	UNKNOWN	3714	28	28	OTHER : Top Soil	NONE	N
14212398	RUSTLER	2832	882	882	ANHYDRITE, DOLOMITE	USEABLE WATER	N
14212399	TOP SALT	2519	1195	1195	SALT	NONE	N
14212388	BOTTOM SALT	-1111	4825	4825	SALT	NONE	N
14212406	LAMAR	-1155	4869	4869	LIMESTONE	NATURAL GAS, OIL	N
14212407	BELL CANYON	-1270	4984	4984	SANDSTONE	NATURAL GAS, OIL	N
14212408	CHERRY CANYON	-2137	5851	5851	SANDSTONE	NATURAL GAS, OIL	N
14212409	MANZANITA	-2300	6014	6014	LIMESTONE	NATURAL GAS, OIL	N
14212410	BRUSHY CANYON	-4835	8549	8549	SANDSTONE	NATURAL GAS, OIL	N
14212386	BONE SPRING	-5096	8810	8810	LIMESTONE, SHALE	NATURAL GAS, OIL	N
14212389	BONE SPRING 1ST	-6154	9868	9868	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 20230

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. Anchors are not required by manufacturer. A multi-bowl wellhead is being used. Please see attached schematics.

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM **Well Number:** 1H

components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Choke Diagram Attachment:

Bilbrey_34_27_B1OB_Fed_Com_1H_5M_BOPE_Choke_Diagram_20220706162926.pdf

Bilbrey_34_27_B1OB_Fed_Com_1H_Flex_Line_Specs_API_16C_20220706162926.pdf

Bilbrey_34_27_B1OB_Fed_Com_1H_Flex_Line_Specs_20220706162926.pdf

BOP Diagram Attachment:

Bilbrey_34_27_B1OB_Fed_Com_1H_5M_BOPE_Schematic_20220706163026.pdf

Bilbrey_34_27_B1OB_Fed_Com_1H_5M_Mutli_Bowl_WH_20220706163026.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	955	0	955	3714	2759	955	H-40	48	ST&C	1.76	3.96	DRY	7.02	DRY	11.8
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3453	0	3437		277	3453	J-55	36	LT&C	1.13	1.96	DRY	2.47	DRY	3.08
3	INTERMEDIATE	12.25	9.625	NEW	API	N	3453	4393	3437	4375	277	-661	940	J-55	40	LT&C	1.13	1.73	DRY	8.83	DRY	10.7
4	INTERMEDIATE	12.25	9.625	NEW	API	N	4393	4925	4375	4896	-661	-1182	532	N-80	40	LT&C	1.21	2.25	DRY	34.64	DRY	43.06
5	PRODUCTION	8.75	7.0	NEW	API	N	0	9400	0	9328		-5614	9400	P-110	26	LT&C	1.32	2.11	DRY	2.61	DRY	3.4
6	LINER	6.125	4.5	NEW	API	N	9200	20230	9128	9887	-5414	-6173	11030	P-110	13.5	LT&C	1.73	2.01	DRY	2.27	DRY	2.83

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM **Well Number:** 1H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B1OB_Fed_Com_1H_Csg_Assumptions_20220708102428.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B1OB_Fed_Com_1H_Csg_Assumptions_20220708102514.pdf

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B1OB_Fed_Com_1H_Csg_Assumptions_20220708102810.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM **Well Number:** 1H

Casing Attachments

Casing ID: 4 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B1OB_Fed_Com_1H_Csg_Assumptions_20220708102931.pdf

Casing ID: 5 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B1OB_Fed_Com_1H_Csg_Assumptions_20220708102642.pdf

Casing ID: 6 **String** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B1OB_Fed_Com_1H_Csg_Assumptions_20220708102723.pdf

Section 4 - Cement

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM **Well Number:** 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	762	500	2.12	12.5	1060	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		762	955	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	4238	780	2.12	12.5	1654	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4238	4925	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	6000	5425	5577	20	2.12	12.5	42	0	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		5577	6000	100	1.18	15.6	118	0	Class H	Retarder, Fluid Loss, Defoamer
PRODUCTION	Lead	6000	6000	6280	20	2.12	12.5	42	0	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		6280	9400	400	1.18	15.6	472	0	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9200	20230	440	2.97	11.2	1307	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Lost circulation material Sweeps Mud scavengers in surface hole

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

Circulating Medium Table

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM **Well Number:** 1H

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	955	SPUD MUD	8.6	8.8							
955	4925	SALT SATURATED	10	10							
4925	9400	WATER-BASED MUD	8.6	9.7							
9400	20230	OIL-BASED MUD	8.6	12							

Section 6 - Test, Logging, Coring

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

Previous GR/CNL were run on deeper offset well. Logs can found under the Bilbrey 34/27 W2PA Fed Com #1H (API:30-025-45008)

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6203 **Anticipated Surface Pressure:** 4018

Anticipated Bottom Hole Temperature(F): 140

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Bilbrey_34_27_B1OB_Fed_Com_1H_H2S_Plan_20220706165346.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM **Well Number:** 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Bilbrey_34_27_B1OB_Fed_Com_1H_MOC_Dir_Plan_20220708103317.pdf

Bilbrey_34_27_B1OB_Fed_Com_1H_MOC_Dir_Plot_20220708103317.pdf

Other proposed operations facets description:

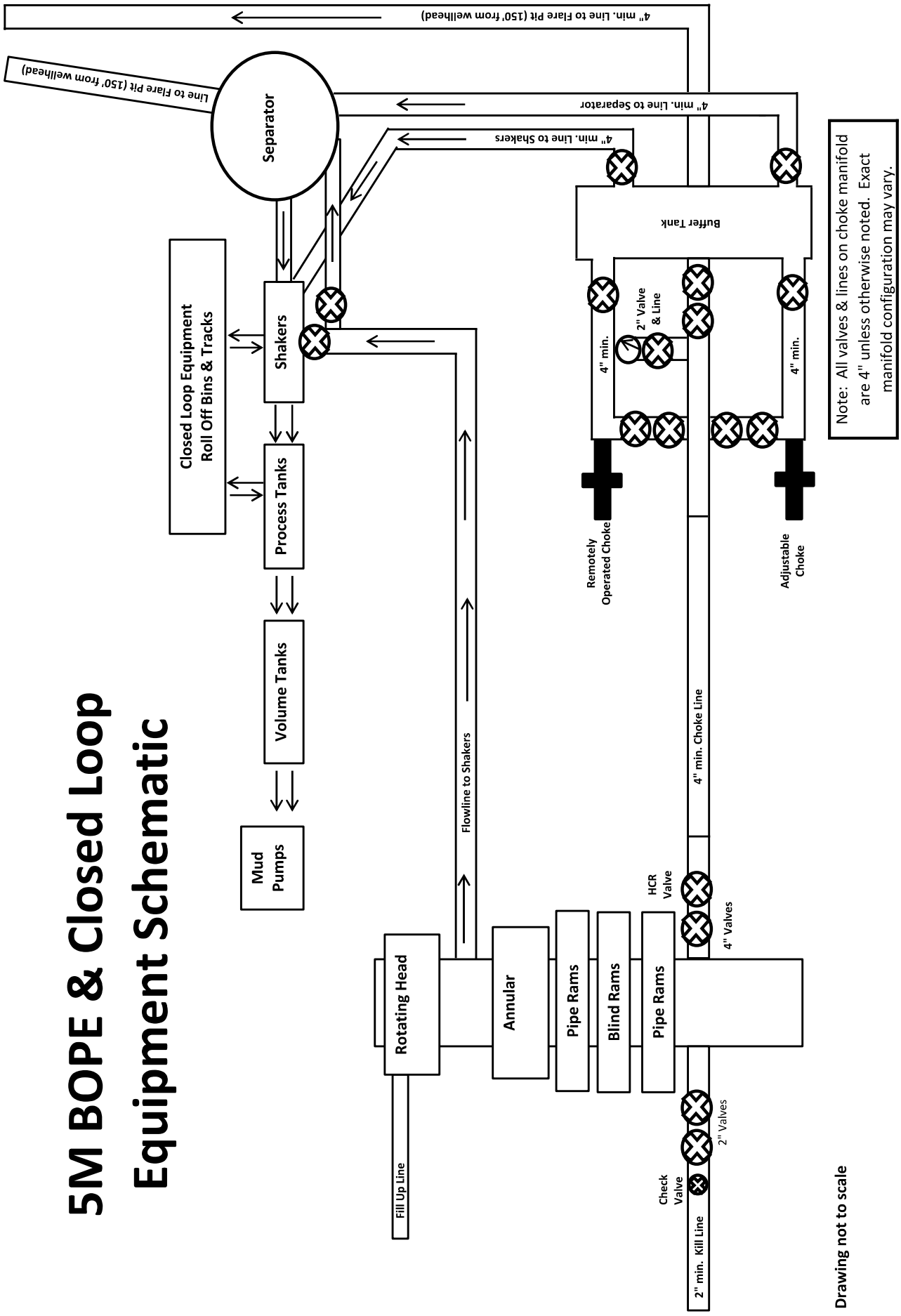
Other proposed operations facets attachment:

Bilbrey_34_27_B1OB_Fed_Com_1H_Add_Info_20220708144723.pdf

Other Variance attachment:

Bilbrey_34_27_B1OB_Fed_Com_1H_Variance_Request_20220706170236.pdf

5M BOPE & Closed Loop Equipment Schematic



GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10
Invoice No.:	511956	Created By:	Moosa Naqvi

Product Description:	10KF3.035.0CK41/1610KFLGFXDxFLT L/E

End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

Gates Engineering & Services North America certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements.

Quality:	QUALITY	Production:	PRODUCTION
Date :	8/20/2018	Date :	8/20/2018
Signature :	Moosa Naqvi	Signature :	

Form PTC - 01 Rev.0 2

ENGINEERING & SERVICES

GATES E & S NORTH AMERICA, INC.
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: *Tim.Cantu@gates.com*
WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER

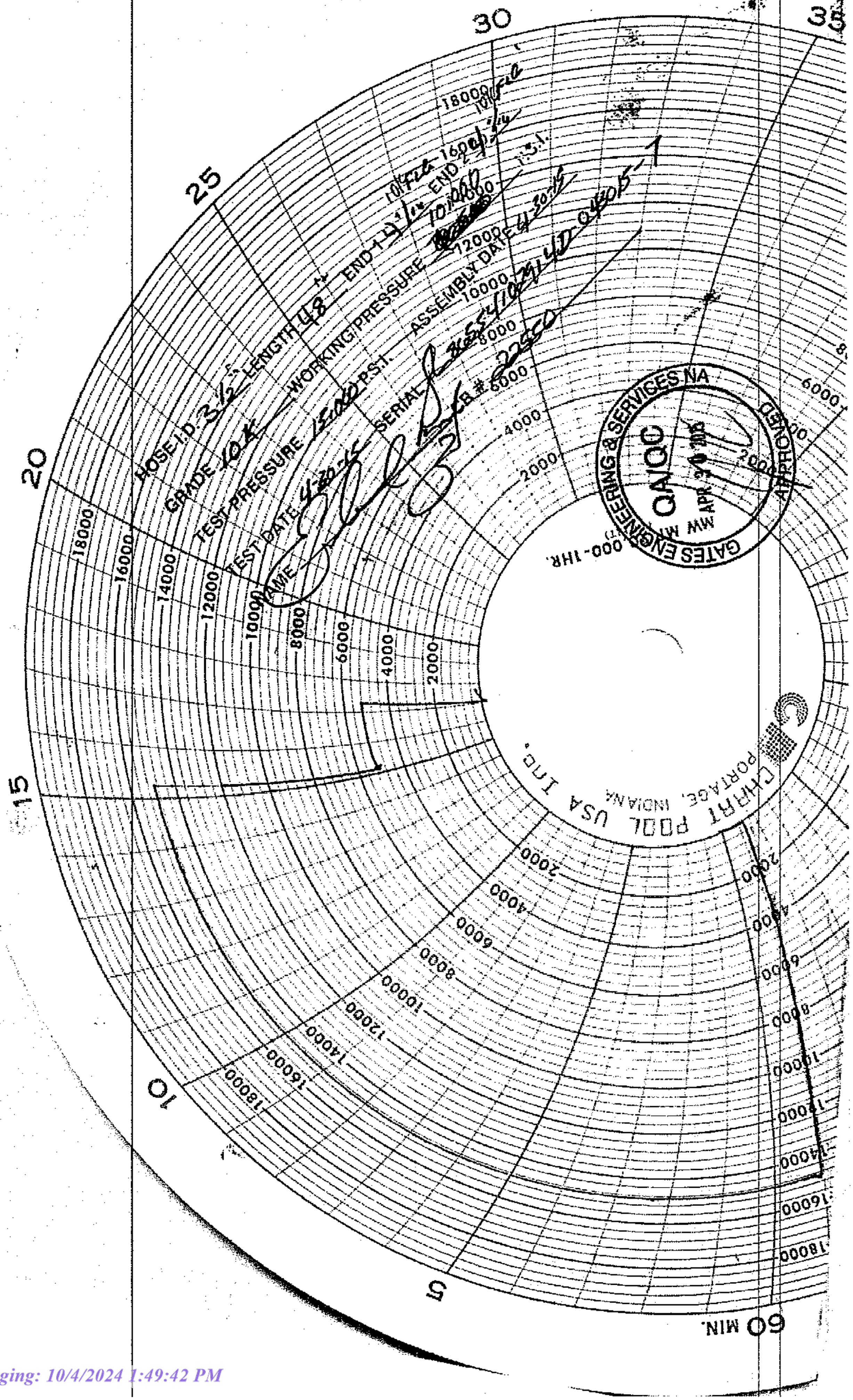
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

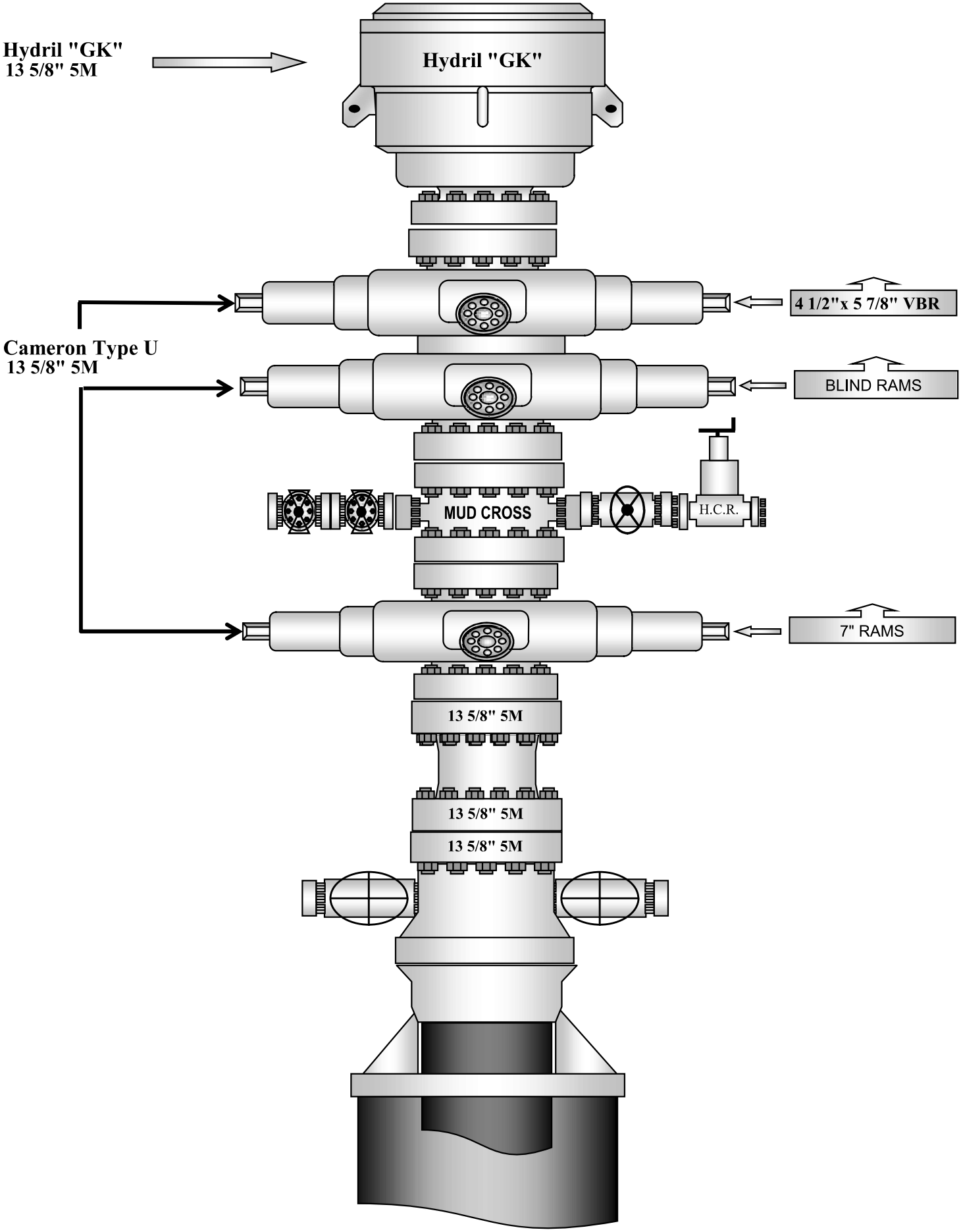
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :	QUALITY	Produciton:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :		Signature :	

Form-PTC - 01 Rev.0 2

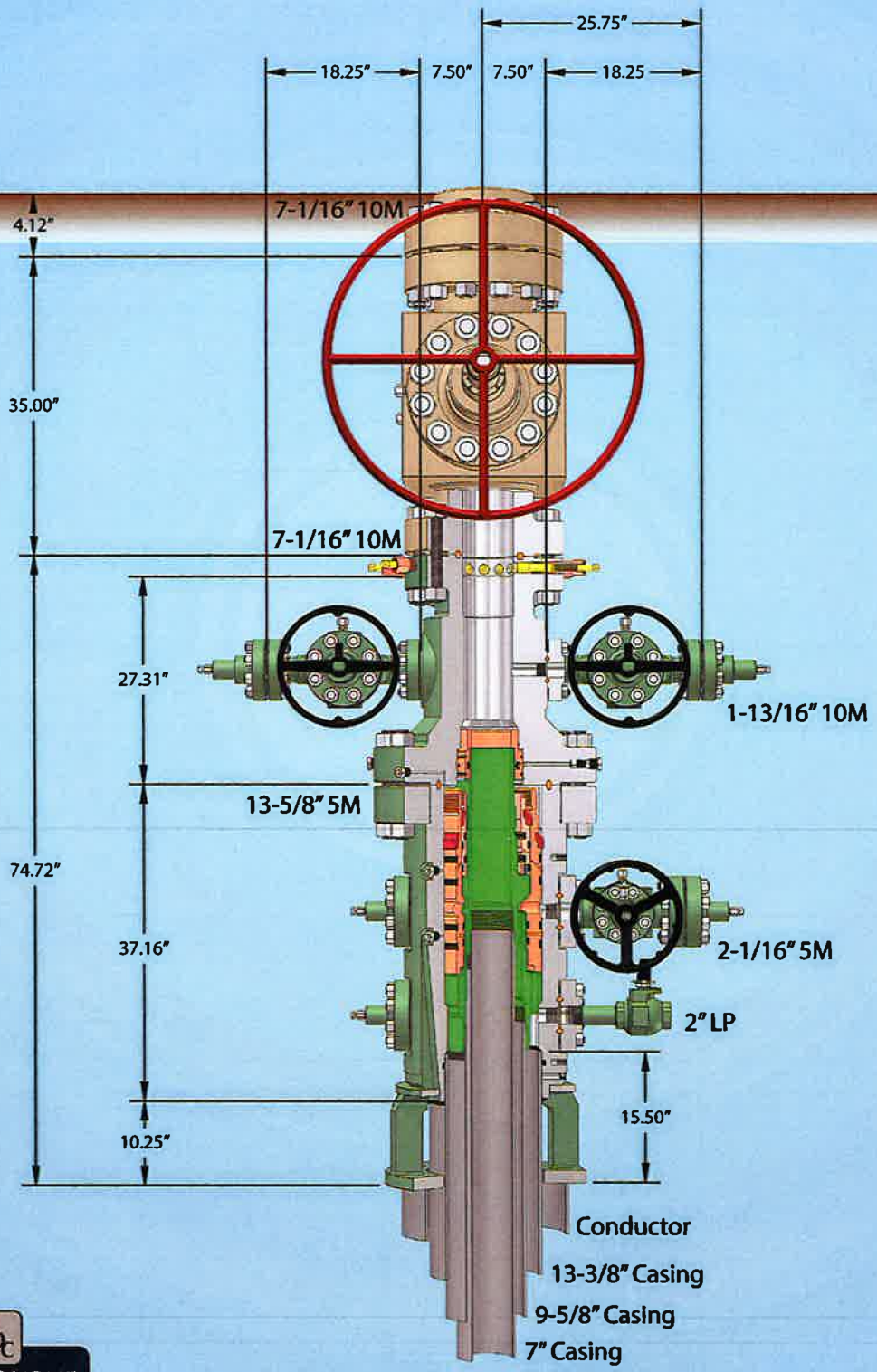

HOSE I.D. 3 1/2
LENGTH 48'
END 1 4 1/16" 10K
END 2 4 1/16" 10K
GRADE 10K
WORKING PRESSURE 10,000 P.S.I.
TEST PRESSURE 15,000 P.S.I.
ASSEMBLY DATE 4-30-15
TEST DATE 4-30-15
SERIAL # 36554 / 10291 4D-043015-1
NAME
CB # 22500
GATES ENGINEERING & SERVICES NA
QA/QC
APPROVED
APR 30 2015
CHART POOL USA INC.
PORTAGE, INDIANA
60 MIN.
000-1HR.

5M BOPE Schematic



CAMERON
A Schlumberger Company

13-5/8" MN-DS Wellhead System



MEWBOURNE OIL COMPANY

C7585
Rev. 02

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

Capping flange 57" conductor cut-off

Mewbourne Oil Company, Bilbrey 34/27 B1OB Fed Com #1H
Sec 34, T21S, R32E
SHL: 205' FSL & 1100' FEL, Sec 34
BHL: 100' FNL & 2110' FEL, Sec 27

Casing Program

Hole Size	Casing Interval From	To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	955'	13.375"	48	H40	STC	1.76	3.96	7.02	11.80
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.47	3.08
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	8.83	10.70
12.25"	4393'	4925'	9.625"	40	N80	LTC	1.21	2.25	34.64	43.06
8.75"	0'	9400'	7"	26	P110	LTC	1.32	2.11	2.61	3.40
6.125"	9200'	20287'	4.5"	13.5	P110	LTC	1.73	2.01	2.27	2.83
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
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.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Bilbrey 34/27 B1OB Fed Com #1H
Sec 34, T21S, R32E
SHL: 205' FSL & 1100' FEL, Sec 34
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Mewbourne Oil Company, Bilbrey 34/27 B1OB Fed Com #1H
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Mewbourne Oil Company, Bilbrey 34/27 B1OB Fed Com #1H
Sec 34, T21S, R32E
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Mewbourne Oil Company, Bilbrey 34/27 B1OB Fed Com #1H
Sec 34, T21S, R32E
SHL: 205' FSL & 1100' FEL, Sec 34
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All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
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Mewbourne Oil Company, Bilbrey 34/27 B1OB Fed Com #1H
Sec 34, T21S, R32E
SHL: 205' FSL & 1100' FEL, Sec 34
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All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
Must have table for contingency casing

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Mewbourne Oil Company

Lea County, New Mexico NAD 83
Bilbrey 34/27 B1OB Fed Com #1H
Sec 34, T21S, R32E
SHL: 205' FSL & 1100' FEL (Sec 34)
BHL: 100' FNL & 2110' FEL (Sec 27)

Plan: Design #1

Standard Planning Report

08 July, 2022

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Bilbrey 34/27 B1OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3742.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3742.0usft (Original Well Elev)
Site:	Bilbrey 34/27 B1OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 34, T21S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2110' FEL (Sec 27)		
Design:	Design #1		

Project Lea County, New Mexico NAD 83

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

Site Bilbrey 34/27 B1OB Fed Com #1H

Site Position:		**Northing:**	520,303.10 usft	**Latitude:**	32.4285671
From:	Map	**Easting:**	749,820.40 usft	**Longitude:**	-103.6576267
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 34, T21S, R32E

Well Position	**+N/-S**	0.0 usft	**Northing:**	520,303.10 usft	**Latitude:**	32.4285671
	+E/-W	0.0 usft	**Easting:**	749,820.40 usft	**Longitude:**	-103.6576267
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,742.0 usft	**Ground Level:**	3,714.0 usft
Grid Convergence:		0.36 °				

Wellbore BHL: 100' FNL & 2110' FEL (Sec 27)

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.20	60.27	48,373.62417560

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	354.06

Plan Survey Tool Program **Date** 7/6/2022

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,287.8	Design #1 (BHL: 100' FNL & 2110		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,775.0	0.00	0.00	1,775.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,182.8	8.16	258.43	2,181.4	-5.8	-28.4	2.00	2.00	0.00	258.43	
9,033.2	8.16	258.43	8,962.6	-200.7	-980.5	0.00	0.00	0.00	0.00	
9,441.0	0.00	0.00	9,369.0	-206.5	-1,008.9	2.00	-2.00	0.00	180.00	KOP: 10' FSL & 2110'
10,344.3	90.32	359.68	9,942.0	369.7	-1,012.1	10.00	10.00	0.00	-0.32	
20,230.1	90.32	359.68	9,887.0	10,255.2	-1,067.3	0.00	0.00	0.00	0.00	BHL: 100' FNL & 211(

Planning Report

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Site:	Bilbrey 34/27 B1OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 34, T21S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2110' FEL (Sec 27)		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 205' FSL & 1100' FEL (Sec 34)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,775.0	0.00	0.00	1,775.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.50	258.43	1,800.0	0.0	-0.1	0.0	2.00	2.00	0.00
1,900.0	2.50	258.43	1,900.0	-0.5	-2.7	-0.3	2.00	2.00	0.00
2,000.0	4.50	258.43	1,999.8	-1.8	-8.7	-0.9	2.00	2.00	0.00
2,100.0	6.50	258.43	2,099.3	-3.7	-18.0	-1.8	2.00	2.00	0.00
2,182.8	8.16	258.43	2,181.4	-5.8	-28.4	-2.8	2.00	2.00	0.00
2,200.0	8.16	258.43	2,198.5	-6.3	-30.8	-3.1	0.00	0.00	0.00
2,300.0	8.16	258.43	2,297.4	-9.1	-44.7	-4.5	0.00	0.00	0.00
2,400.0	8.16	258.43	2,396.4	-12.0	-58.6	-5.9	0.00	0.00	0.00
2,500.0	8.16	258.43	2,495.4	-14.8	-72.5	-7.3	0.00	0.00	0.00
2,600.0	8.16	258.43	2,594.4	-17.7	-86.4	-8.6	0.00	0.00	0.00
2,700.0	8.16	258.43	2,693.4	-20.5	-100.3	-10.0	0.00	0.00	0.00
2,800.0	8.16	258.43	2,792.4	-23.4	-114.2	-11.4	0.00	0.00	0.00
2,900.0	8.16	258.43	2,891.4	-26.2	-128.1	-12.8	0.00	0.00	0.00
3,000.0	8.16	258.43	2,990.4	-29.1	-142.0	-14.2	0.00	0.00	0.00
3,100.0	8.16	258.43	3,089.3	-31.9	-155.9	-15.6	0.00	0.00	0.00
3,200.0	8.16	258.43	3,188.3	-34.7	-169.8	-17.0	0.00	0.00	0.00
3,300.0	8.16	258.43	3,287.3	-37.6	-183.7	-18.4	0.00	0.00	0.00
3,400.0	8.16	258.43	3,386.3	-40.4	-197.6	-19.8	0.00	0.00	0.00
3,500.0	8.16	258.43	3,485.3	-43.3	-211.5	-21.2	0.00	0.00	0.00
3,600.0	8.16	258.43	3,584.3	-46.1	-225.4	-22.6	0.00	0.00	0.00
3,700.0	8.16	258.43	3,683.3	-49.0	-239.3	-23.9	0.00	0.00	0.00
3,800.0	8.16	258.43	3,782.3	-51.8	-253.2	-25.3	0.00	0.00	0.00
3,900.0	8.16	258.43	3,881.3	-54.7	-267.1	-26.7	0.00	0.00	0.00
4,000.0	8.16	258.43	3,980.2	-57.5	-281.0	-28.1	0.00	0.00	0.00
4,100.0	8.16	258.43	4,079.2	-60.4	-294.9	-29.5	0.00	0.00	0.00
4,200.0	8.16	258.43	4,178.2	-63.2	-308.8	-30.9	0.00	0.00	0.00
4,300.0	8.16	258.43	4,277.2	-66.0	-322.7	-32.3	0.00	0.00	0.00
4,400.0	8.16	258.43	4,376.2	-68.9	-336.6	-33.7	0.00	0.00	0.00
4,500.0	8.16	258.43	4,475.2	-71.7	-350.4	-35.1	0.00	0.00	0.00
4,600.0	8.16	258.43	4,574.2	-74.6	-364.3	-36.5	0.00	0.00	0.00
4,700.0	8.16	258.43	4,673.2	-77.4	-378.2	-37.8	0.00	0.00	0.00
4,800.0	8.16	258.43	4,772.2	-80.3	-392.1	-39.2	0.00	0.00	0.00
4,900.0	8.16	258.43	4,871.1	-83.1	-406.0	-40.6	0.00	0.00	0.00
5,000.0	8.16	258.43	4,970.1	-86.0	-419.9	-42.0	0.00	0.00	0.00

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Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3742.0usft (Original Well Elev)
Site:	Bilbrey 34/27 B1OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 34, T21S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2110' FEL (Sec 27)		
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)
5,100.0	8.16	258.43	5,069.1	-88.8	-433.8	-43.4	0.00	0.00	0.00
5,200.0	8.16	258.43	5,168.1	-91.6	-447.7	-44.8	0.00	0.00	0.00
5,300.0	8.16	258.43	5,267.1	-94.5	-461.6	-46.2	0.00	0.00	0.00
5,400.0	8.16	258.43	5,366.1	-97.3	-475.5	-47.6	0.00	0.00	0.00
5,500.0	8.16	258.43	5,465.1	-100.2	-489.4	-49.0	0.00	0.00	0.00
5,600.0	8.16	258.43	5,564.1	-103.0	-503.3	-50.4	0.00	0.00	0.00
5,700.0	8.16	258.43	5,663.0	-105.9	-517.2	-51.8	0.00	0.00	0.00
5,800.0	8.16	258.43	5,762.0	-108.7	-531.1	-53.1	0.00	0.00	0.00
5,900.0	8.16	258.43	5,861.0	-111.6	-545.0	-54.5	0.00	0.00	0.00
6,000.0	8.16	258.43	5,960.0	-114.4	-558.9	-55.9	0.00	0.00	0.00
6,100.0	8.16	258.43	6,059.0	-117.2	-572.8	-57.3	0.00	0.00	0.00
6,200.0	8.16	258.43	6,158.0	-120.1	-586.7	-58.7	0.00	0.00	0.00
6,300.0	8.16	258.43	6,257.0	-122.9	-600.6	-60.1	0.00	0.00	0.00
6,400.0	8.16	258.43	6,356.0	-125.8	-614.5	-61.5	0.00	0.00	0.00
6,500.0	8.16	258.43	6,455.0	-128.6	-628.4	-62.9	0.00	0.00	0.00
6,600.0	8.16	258.43	6,553.9	-131.5	-642.3	-64.3	0.00	0.00	0.00
6,700.0	8.16	258.43	6,652.9	-134.3	-656.2	-65.7	0.00	0.00	0.00
6,800.0	8.16	258.43	6,751.9	-137.2	-670.1	-67.1	0.00	0.00	0.00
6,900.0	8.16	258.43	6,850.9	-140.0	-684.0	-68.4	0.00	0.00	0.00
7,000.0	8.16	258.43	6,949.9	-142.8	-697.9	-69.8	0.00	0.00	0.00
7,100.0	8.16	258.43	7,048.9	-145.7	-711.8	-71.2	0.00	0.00	0.00
7,200.0	8.16	258.43	7,147.9	-148.5	-725.7	-72.6	0.00	0.00	0.00
7,300.0	8.16	258.43	7,246.9	-151.4	-739.6	-74.0	0.00	0.00	0.00
7,400.0	8.16	258.43	7,345.9	-154.2	-753.5	-75.4	0.00	0.00	0.00
7,500.0	8.16	258.43	7,444.8	-157.1	-767.4	-76.8	0.00	0.00	0.00
7,600.0	8.16	258.43	7,543.8	-159.9	-781.3	-78.2	0.00	0.00	0.00
7,700.0	8.16	258.43	7,642.8	-162.8	-795.2	-79.6	0.00	0.00	0.00
7,800.0	8.16	258.43	7,741.8	-165.6	-809.1	-81.0	0.00	0.00	0.00
7,900.0	8.16	258.43	7,840.8	-168.5	-823.0	-82.4	0.00	0.00	0.00
8,000.0	8.16	258.43	7,939.8	-171.3	-836.9	-83.7	0.00	0.00	0.00
8,100.0	8.16	258.43	8,038.8	-174.1	-850.8	-85.1	0.00	0.00	0.00
8,200.0	8.16	258.43	8,137.8	-177.0	-864.7	-86.5	0.00	0.00	0.00
8,300.0	8.16	258.43	8,236.8	-179.8	-878.6	-87.9	0.00	0.00	0.00
8,400.0	8.16	258.43	8,335.7	-182.7	-892.5	-89.3	0.00	0.00	0.00
8,500.0	8.16	258.43	8,434.7	-185.5	-906.4	-90.7	0.00	0.00	0.00
8,600.0	8.16	258.43	8,533.7	-188.4	-920.3	-92.1	0.00	0.00	0.00
8,700.0	8.16	258.43	8,632.7	-191.2	-934.2	-93.5	0.00	0.00	0.00
8,800.0	8.16	258.43	8,731.7	-194.1	-948.1	-94.9	0.00	0.00	0.00
8,900.0	8.16	258.43	8,830.7	-196.9	-962.0	-96.3	0.00	0.00	0.00
9,000.0	8.16	258.43	8,929.7	-199.7	-975.9	-97.7	0.00	0.00	0.00
9,033.2	8.16	258.43	8,962.6	-200.7	-980.5	-98.1	0.00	0.00	0.00
9,100.0	6.82	258.43	9,028.8	-202.4	-989.0	-99.0	2.00	-2.00	0.00
9,200.0	4.82	258.43	9,128.2	-204.5	-999.0	-100.0	2.00	-2.00	0.00
9,300.0	2.82	258.43	9,228.0	-205.8	-1,005.5	-100.6	2.00	-2.00	0.00
9,400.0	0.82	258.43	9,328.0	-206.4	-1,008.6	-100.9	2.00	-2.00	0.00
9,441.0	0.00	0.00	9,369.0	-206.5	-1,008.9	-101.0	2.00	-2.00	0.00
KOP: 10' FSL & 2110' FEL (Sec 34)									
9,450.0	0.90	359.68	9,378.0	-206.4	-1,008.9	-100.9	10.00	10.00	0.00
9,500.0	5.90	359.68	9,427.9	-203.5	-1,008.9	-97.9	10.00	10.00	0.00
9,550.0	10.89	359.68	9,477.3	-196.2	-1,009.0	-90.7	10.00	10.00	0.00
9,600.0	15.89	359.68	9,525.9	-184.6	-1,009.0	-79.2	10.00	10.00	0.00
9,650.0	20.89	359.68	9,573.4	-168.8	-1,009.1	-63.5	10.00	10.00	0.00
9,700.0	25.89	359.68	9,619.2	-149.0	-1,009.2	-43.7	10.00	10.00	0.00

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Well:	Sec 34, T21S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2110' FEL (Sec 27)		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,750.0	30.89	359.68	9,663.2	-125.2	-1,009.4	-20.1	10.00	10.00	0.00
9,767.5	32.64	359.68	9,678.1	-116.0	-1,009.4	-10.9	10.00	10.00	0.00
FTP: 100' FSL & 2110' FEL (Sec 34)									
9,800.0	35.89	359.68	9,704.9	-97.7	-1,009.5	7.3	10.00	10.00	0.00
9,850.0	40.89	359.68	9,744.1	-66.7	-1,009.7	38.2	10.00	10.00	0.00
9,900.0	45.89	359.68	9,780.4	-32.3	-1,009.9	72.4	10.00	10.00	0.00
9,950.0	50.89	359.68	9,813.6	5.1	-1,010.1	109.6	10.00	10.00	0.00
10,000.0	55.89	359.68	9,843.4	45.2	-1,010.3	149.5	10.00	10.00	0.00
10,050.0	60.89	359.68	9,869.6	87.7	-1,010.5	191.9	10.00	10.00	0.00
10,100.0	65.89	359.68	9,892.0	132.4	-1,010.8	236.4	10.00	10.00	0.00
10,150.0	70.89	359.68	9,910.4	178.9	-1,011.1	282.6	10.00	10.00	0.00
10,200.0	75.89	359.68	9,924.7	226.8	-1,011.3	330.3	10.00	10.00	0.00
10,250.0	80.89	359.68	9,934.8	275.8	-1,011.6	379.0	10.00	10.00	0.00
10,300.0	85.89	359.68	9,940.5	325.4	-1,011.9	428.4	10.00	10.00	0.00
10,340.6	89.95	359.68	9,942.0	366.0	-1,012.1	468.8	10.00	10.00	0.00
LP: 583' FSL & 2110' FEL (Sec 34)									
10,344.3	90.32	359.68	9,942.0	369.7	-1,012.1	472.5	10.00	10.00	0.00
10,400.0	90.32	359.68	9,941.7	425.4	-1,012.4	527.9	0.00	0.00	0.00
10,500.0	90.32	359.68	9,941.1	525.4	-1,013.0	627.4	0.00	0.00	0.00
10,600.0	90.32	359.68	9,940.6	625.4	-1,013.5	726.9	0.00	0.00	0.00
10,700.0	90.32	359.68	9,940.0	725.4	-1,014.1	826.4	0.00	0.00	0.00
10,800.0	90.32	359.68	9,939.5	825.4	-1,014.7	926.0	0.00	0.00	0.00
10,900.0	90.32	359.68	9,938.9	925.4	-1,015.2	1,025.5	0.00	0.00	0.00
11,000.0	90.32	359.68	9,938.4	1,025.4	-1,015.8	1,125.0	0.00	0.00	0.00
11,100.0	90.32	359.68	9,937.8	1,125.4	-1,016.3	1,224.5	0.00	0.00	0.00
11,200.0	90.32	359.68	9,937.2	1,225.4	-1,016.9	1,324.0	0.00	0.00	0.00
11,300.0	90.32	359.68	9,936.7	1,325.3	-1,017.5	1,423.6	0.00	0.00	0.00
11,400.0	90.32	359.68	9,936.1	1,425.3	-1,018.0	1,523.1	0.00	0.00	0.00
11,500.0	90.32	359.68	9,935.6	1,525.3	-1,018.6	1,622.6	0.00	0.00	0.00
11,600.0	90.32	359.68	9,935.0	1,625.3	-1,019.1	1,722.1	0.00	0.00	0.00
11,700.0	90.32	359.68	9,934.5	1,725.3	-1,019.7	1,821.6	0.00	0.00	0.00
11,800.0	90.32	359.68	9,933.9	1,825.3	-1,020.2	1,921.1	0.00	0.00	0.00
11,900.0	90.32	359.68	9,933.3	1,925.3	-1,020.8	2,020.7	0.00	0.00	0.00
12,000.0	90.32	359.68	9,932.8	2,025.3	-1,021.4	2,120.2	0.00	0.00	0.00
12,100.0	90.32	359.68	9,932.2	2,125.3	-1,021.9	2,219.7	0.00	0.00	0.00
12,200.0	90.32	359.68	9,931.7	2,225.3	-1,022.5	2,319.2	0.00	0.00	0.00
12,300.0	90.32	359.68	9,931.1	2,325.3	-1,023.0	2,418.7	0.00	0.00	0.00
12,400.0	90.32	359.68	9,930.6	2,425.3	-1,023.6	2,518.2	0.00	0.00	0.00
12,402.7	90.32	359.68	9,930.5	2,428.0	-1,023.6	2,520.9	0.00	0.00	0.00
PPP2: 2645' FNL & 2110' FEL (Sec 34)									
12,500.0	90.32	359.68	9,930.0	2,525.3	-1,024.1	2,617.8	0.00	0.00	0.00
12,600.0	90.32	359.68	9,929.5	2,625.3	-1,024.7	2,717.3	0.00	0.00	0.00
12,700.0	90.32	359.68	9,928.9	2,725.3	-1,025.3	2,816.8	0.00	0.00	0.00
12,800.0	90.32	359.68	9,928.3	2,825.3	-1,025.8	2,916.3	0.00	0.00	0.00
12,900.0	90.32	359.68	9,927.8	2,925.3	-1,026.4	3,015.8	0.00	0.00	0.00
13,000.0	90.32	359.68	9,927.2	3,025.3	-1,026.9	3,115.3	0.00	0.00	0.00
13,100.0	90.32	359.68	9,926.7	3,125.3	-1,027.5	3,214.9	0.00	0.00	0.00
13,200.0	90.32	359.68	9,926.1	3,225.3	-1,028.1	3,314.4	0.00	0.00	0.00
13,300.0	90.32	359.68	9,925.6	3,325.3	-1,028.6	3,413.9	0.00	0.00	0.00
13,400.0	90.32	359.68	9,925.0	3,425.3	-1,029.2	3,513.4	0.00	0.00	0.00
13,500.0	90.32	359.68	9,924.4	3,525.3	-1,029.7	3,612.9	0.00	0.00	0.00
13,600.0	90.32	359.68	9,923.9	3,625.3	-1,030.3	3,712.5	0.00	0.00	0.00
13,700.0	90.32	359.68	9,923.3	3,725.3	-1,030.8	3,812.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Bilbrey 34/27 B1OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3742.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3742.0usft (Original Well Elev)
Site:	Bilbrey 34/27 B1OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 34, T21S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2110' FEL (Sec 27)		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.0	90.32	359.68	9,922.8	3,825.3	-1,031.4	3,911.5	0.00	0.00	0.00
13,900.0	90.32	359.68	9,922.2	3,925.3	-1,032.0	4,011.0	0.00	0.00	0.00
14,000.0	90.32	359.68	9,921.7	4,025.3	-1,032.5	4,110.5	0.00	0.00	0.00
14,100.0	90.32	359.68	9,921.1	4,125.3	-1,033.1	4,210.0	0.00	0.00	0.00
14,200.0	90.32	359.68	9,920.5	4,225.3	-1,033.6	4,309.6	0.00	0.00	0.00
14,300.0	90.32	359.68	9,920.0	4,325.3	-1,034.2	4,409.1	0.00	0.00	0.00
14,400.0	90.32	359.68	9,919.4	4,425.3	-1,034.8	4,508.6	0.00	0.00	0.00
14,500.0	90.32	359.68	9,918.9	4,525.2	-1,035.3	4,608.1	0.00	0.00	0.00
14,600.0	90.32	359.68	9,918.3	4,625.2	-1,035.9	4,707.6	0.00	0.00	0.00
14,700.0	90.32	359.68	9,917.8	4,725.2	-1,036.4	4,807.1	0.00	0.00	0.00
14,800.0	90.32	359.68	9,917.2	4,825.2	-1,037.0	4,906.7	0.00	0.00	0.00
14,900.0	90.32	359.68	9,916.7	4,925.2	-1,037.5	5,006.2	0.00	0.00	0.00
15,000.0	90.32	359.68	9,916.1	5,025.2	-1,038.1	5,105.7	0.00	0.00	0.00
15,047.8	90.32	359.68	9,915.8	5,073.0	-1,038.4	5,153.2	0.00	0.00	0.00
PPP3: 0' FSL & 2110' FEL (Sec 27)									
15,100.0	90.32	359.68	9,915.5	5,125.2	-1,038.7	5,205.2	0.00	0.00	0.00
15,200.0	90.32	359.68	9,915.0	5,225.2	-1,039.2	5,304.7	0.00	0.00	0.00
15,300.0	90.32	359.68	9,914.4	5,325.2	-1,039.8	5,404.3	0.00	0.00	0.00
15,400.0	90.32	359.68	9,913.9	5,425.2	-1,040.3	5,503.8	0.00	0.00	0.00
15,500.0	90.32	359.68	9,913.3	5,525.2	-1,040.9	5,603.3	0.00	0.00	0.00
15,600.0	90.32	359.68	9,912.8	5,625.2	-1,041.5	5,702.8	0.00	0.00	0.00
15,700.0	90.32	359.68	9,912.2	5,725.2	-1,042.0	5,802.3	0.00	0.00	0.00
15,800.0	90.32	359.68	9,911.6	5,825.2	-1,042.6	5,901.8	0.00	0.00	0.00
15,900.0	90.32	359.68	9,911.1	5,925.2	-1,043.1	6,001.4	0.00	0.00	0.00
16,000.0	90.32	359.68	9,910.5	6,025.2	-1,043.7	6,100.9	0.00	0.00	0.00
16,100.0	90.32	359.68	9,910.0	6,125.2	-1,044.2	6,200.4	0.00	0.00	0.00
16,200.0	90.32	359.68	9,909.4	6,225.2	-1,044.8	6,299.9	0.00	0.00	0.00
16,300.0	90.32	359.68	9,908.9	6,325.2	-1,045.4	6,399.4	0.00	0.00	0.00
16,400.0	90.32	359.68	9,908.3	6,425.2	-1,045.9	6,498.9	0.00	0.00	0.00
16,500.0	90.32	359.68	9,907.8	6,525.2	-1,046.5	6,598.5	0.00	0.00	0.00
16,600.0	90.32	359.68	9,907.2	6,625.2	-1,047.0	6,698.0	0.00	0.00	0.00
16,700.0	90.32	359.68	9,906.6	6,725.2	-1,047.6	6,797.5	0.00	0.00	0.00
16,800.0	90.32	359.68	9,906.1	6,825.2	-1,048.2	6,897.0	0.00	0.00	0.00
16,900.0	90.32	359.68	9,905.5	6,925.2	-1,048.7	6,996.5	0.00	0.00	0.00
17,000.0	90.32	359.68	9,905.0	7,025.2	-1,049.3	7,096.0	0.00	0.00	0.00
17,100.0	90.32	359.68	9,904.4	7,125.2	-1,049.8	7,195.6	0.00	0.00	0.00
17,200.0	90.32	359.68	9,903.9	7,225.2	-1,050.4	7,295.1	0.00	0.00	0.00
17,300.0	90.32	359.68	9,903.3	7,325.2	-1,050.9	7,394.6	0.00	0.00	0.00
17,400.0	90.32	359.68	9,902.7	7,425.2	-1,051.5	7,494.1	0.00	0.00	0.00
17,500.0	90.32	359.68	9,902.2	7,525.2	-1,052.1	7,593.6	0.00	0.00	0.00
17,600.0	90.32	359.68	9,901.6	7,625.2	-1,052.6	7,693.2	0.00	0.00	0.00
17,688.8	90.32	359.68	9,901.1	7,714.0	-1,053.1	7,781.6	0.00	0.00	0.00
PPP4: 2640' FSL & 2110' FEL (Sec 27)									
17,700.0	90.32	359.68	9,901.1	7,725.2	-1,053.2	7,792.7	0.00	0.00	0.00
17,800.0	90.32	359.68	9,900.5	7,825.1	-1,053.7	7,892.2	0.00	0.00	0.00
17,900.0	90.32	359.68	9,900.0	7,925.1	-1,054.3	7,991.7	0.00	0.00	0.00
18,000.0	90.32	359.68	9,899.4	8,025.1	-1,054.9	8,091.2	0.00	0.00	0.00
18,100.0	90.32	359.68	9,898.9	8,125.1	-1,055.4	8,190.7	0.00	0.00	0.00
18,200.0	90.32	359.68	9,898.3	8,225.1	-1,056.0	8,290.3	0.00	0.00	0.00
18,300.0	90.32	359.68	9,897.7	8,325.1	-1,056.5	8,389.8	0.00	0.00	0.00
18,400.0	90.32	359.68	9,897.2	8,425.1	-1,057.1	8,489.3	0.00	0.00	0.00
18,500.0	90.32	359.68	9,896.6	8,525.1	-1,057.6	8,588.8	0.00	0.00	0.00
18,600.0	90.32	359.68	9,896.1	8,625.1	-1,058.2	8,688.3	0.00	0.00	0.00
18,700.0	90.32	359.68	9,895.5	8,725.1	-1,058.8	8,787.8	0.00	0.00	0.00

Planning Report

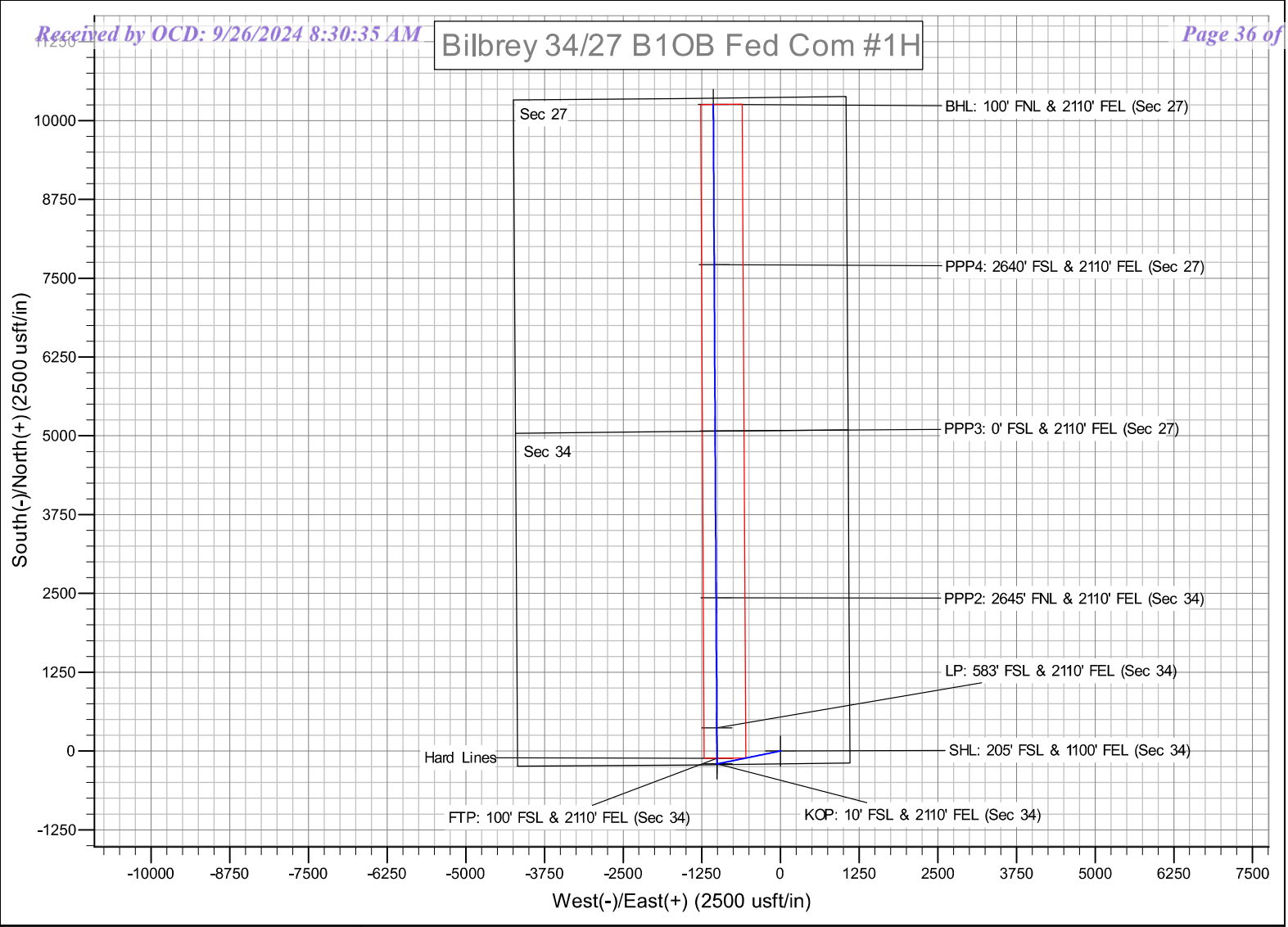
Database:	Hobbs	**Local Co-ordinate Reference:**	Site Bilbrey 34/27 B1OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3742.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3742.0usft (Original Well Elev)
Site:	Bilbrey 34/27 B1OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 34, T21S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2110' FEL (Sec 27)		
Design:	Design #1		

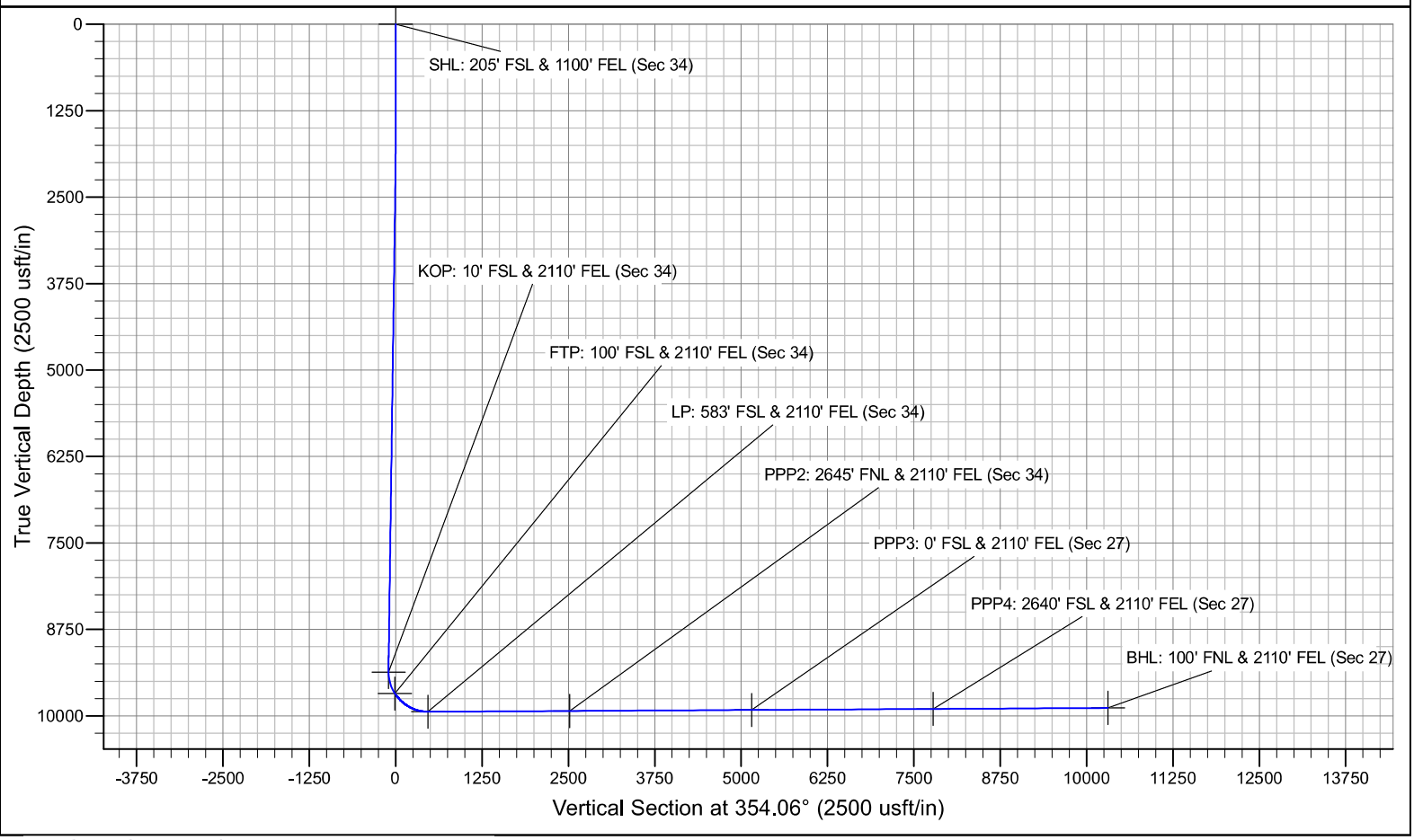
Planned Survey

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)
18,800.0	90.32	359.68	9,895.0	8,825.1	-1,059.3	8,887.4	0.00	0.00	0.00
18,900.0	90.32	359.68	9,894.4	8,925.1	-1,059.9	8,986.9	0.00	0.00	0.00
19,000.0	90.32	359.68	9,893.8	9,025.1	-1,060.4	9,086.4	0.00	0.00	0.00
19,100.0	90.32	359.68	9,893.3	9,125.1	-1,061.0	9,185.9	0.00	0.00	0.00
19,200.0	90.32	359.68	9,892.7	9,225.1	-1,061.5	9,285.4	0.00	0.00	0.00
19,300.0	90.32	359.68	9,892.2	9,325.1	-1,062.1	9,384.9	0.00	0.00	0.00
19,400.0	90.32	359.68	9,891.6	9,425.1	-1,062.7	9,484.5	0.00	0.00	0.00
19,500.0	90.32	359.68	9,891.1	9,525.1	-1,063.2	9,584.0	0.00	0.00	0.00
19,600.0	90.32	359.68	9,890.5	9,625.1	-1,063.8	9,683.5	0.00	0.00	0.00
19,700.0	90.32	359.68	9,889.9	9,725.1	-1,064.3	9,783.0	0.00	0.00	0.00
19,800.0	90.32	359.68	9,889.4	9,825.1	-1,064.9	9,882.5	0.00	0.00	0.00
19,900.0	90.32	359.68	9,888.8	9,925.1	-1,065.5	9,982.1	0.00	0.00	0.00
20,000.0	90.32	359.68	9,888.3	10,025.1	-1,066.0	10,081.6	0.00	0.00	0.00
20,100.0	90.32	359.68	9,887.7	10,125.1	-1,066.6	10,181.1	0.00	0.00	0.00
20,200.0	90.32	359.68	9,887.2	10,225.1	-1,067.1	10,280.6	0.00	0.00	0.00
20,230.1	90.32	359.68	9,887.0	10,255.2	-1,067.3	10,310.6	0.00	0.00	0.00
BHL: 100' FNL & 2110' FEL (Sec 27)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 205' FSL & 1100' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	520,303.10	749,820.40	32.4285671	-103.6576267
KOP: 10' FSL & 2110' FE - plan hits target center - Point	0.00	0.00	9,369.0	-206.5	-1,008.9	520,096.60	748,811.50	32.4280170	-103.6609007
FTP: 100' FSL & 2110' F - plan hits target center - Point	0.00	0.00	9,678.1	-116.0	-1,009.4	520,187.10	748,810.99	32.4282658	-103.6609005
BHL: 100' FNL & 2110' F - plan hits target center - Point	0.00	0.00	9,887.0	10,255.2	-1,067.3	530,558.30	748,753.10	32.4567733	-103.6608765
PPP4: 2640' FSL & 211(- plan hits target center - Point	0.00	0.00	9,901.1	7,714.0	-1,053.1	528,017.10	748,767.28	32.4497883	-103.6608824
PPP3: 0' FSL & 2110' FE - plan hits target center - Point	0.00	0.01	9,915.8	5,073.0	-1,038.4	525,376.10	748,782.03	32.4425289	-103.6608885
PPP2: 2645' FNL & 211(- plan hits target center - Point	0.00	0.00	9,930.5	2,428.0	-1,023.6	522,731.10	748,796.79	32.4352585	-103.6608946
LP: 583' FSL & 2110' FE - plan hits target center - Point	0.00	0.00	9,942.0	366.0	-1,012.1	520,669.10	748,808.30	32.4295907	-103.6608993


Bilbrey 34/27 B1OB Fed Com #1H
Sec 27
Sec 34
BHL: 100' FNL & 2110' FEL (Sec 27)
PPP4: 2640' FSL & 2110' FEL (Sec 27)
PPP3: 0' FSL & 2110' FEL (Sec 27)
PPP2: 2645' FNL & 2110' FEL (Sec 34)
LP: 583' FSL & 2110' FEL (Sec 34)
SHL: 205' FSL & 1100' FEL (Sec 34)
Hard Lines
FTP: 100' FSL & 2110' FEL (Sec 34)
KOP: 10' FSL & 2110' FEL (Sec 34)
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)


SHL: 205' FSL & 1100' FEL (Sec 34)
KOP: 10' FSL & 2110' FEL (Sec 34)
FTP: 100' FSL & 2110' FEL (Sec 34)
LP: 583' FSL & 2110' FEL (Sec 34)
PPP2: 2645' FNL & 2110' FEL (Sec 34)
PPP3: 0' FSL & 2110' FEL (Sec 27)
PPP4: 2640' FSL & 2110' FEL (Sec 27)
BHL: 100' FNL & 2110' FEL (Sec 27)
True Vertical Depth (2500 usft/in)
Vertical Section at 354.06° (2500 usft/in)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Bilbrey 34/27 B1OB Fed Com	1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	34	21S	32E		10	S	2110	E	Lea

Latitude	Longitude	NAD
32.4280170	-103.6609007	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	34	21S	32E		100	S	2110	E	Lea

Latitude	Longitude	NAD
32.4282658	-103.6609005	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	27	21S	32E		100	N	2110	E	Lea

Latitude	Longitude	NAD
32.4567733	-103.6608765	83

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

Is this well an infill well? Y

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
Mewbourne Oil Company	Bilbrey 34/27 W0OB Fed Com	2H

KZ 06/27/2018

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	BILBREY 34/27 B1OB FED COM 1H
APD ID:	10400086096
LOCATION:	Section 34, T.21 S., R.32 E. NMP.
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H_2S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING PROGRAM

1. The **13-3/8** inch surface casing shall be set at approximately **955 ft.** (a minimum of 25 feet (Lea 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)

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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.

Note: The set depth of intermediate casing was adjusted per BLM geologist recommendation.

2. The **9-5/8** inch intermediate casing shall be set in a competent bed at approximately **4,850 ft.** (4,825 ft. TVD). 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 **Potash**.

Note: Excess cement volume is below the CFO's recommendation of 25%. More cement might be needed.

❖ 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.

3. Operator has proposed to set **7 in.** production casing at approximately **9,400 ft.** The minimum required fill of cement behind the **7 in.** production casing is:

- Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.
  a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Potash**.

  b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back **at least 500 ft. into intermediate casing.** If cement does not circulate, the appropriate BLM office shall be notified.

❖ Operator must run a cement evaluation tool (fluid shot tool, Temperature log or CBL, etc.) to verify TOC after the second stage bradenhead. Submit the results to the BLM. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.

❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing x Production Casing annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

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.

C. PRESSURE CONTROL

1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. Before drilling the surface casing shoe out, the BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172.**

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in the **title 43 CFR 3172.6(b)(9)** must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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

- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981.

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

spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which

have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four

hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent 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 08/28/2024

Approval Date: 09/25/2024

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

1. Well Control Equipment
   - A. Choke manifold with minimum of one adjustable choke/remote choke.
   - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
   - C. Auxiliary equipment including annular type blowout preventer.
2. Protective Equipment for Essential Personnel
   Thirty minute self contained work unit located in the dog house and at briefing areas.

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

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

4. Visual Warning Systems
A. Wind direction indicators as indicated on the wellsite diagram.
B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

Mewbourne Oil Company	**Hobbs District Office**	**575-393-5905**
	Fax	**575-397-6252**
	2nd Fax	**575-393-7259**
District Manager	**Robin Terrell**	**575-390-4816**
Drilling Superintendent	**Frosty Lathan**	**575-390-4103**
	Bradley Bishop	**575-390-6838**
Drilling Foreman	**Wesley Noseff**	**575-441-0729**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM **Well Number:** 1H

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

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

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

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

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: 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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B1OB FED COM **Well Number:** 1H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

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

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

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Bilbrey34_27B1OBFedCom1H_WellSiteLayout_20220614105259.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Bilbrey 34/27 B1 and H3 Fed Com Wells

Multiple Well Pad Number: 5

Recontouring

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	14744
	Action Number: 387051
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/4/2024
pkautz	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	10/4/2024
pkautz	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	10/4/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	10/4/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	10/4/2024