

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.
NMNM1119

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
OMAHA 36/31 WOLI FED COM

1H

9. API Well No.

30-015-55873

10. Field and Pool, or Exploratory
AVALON/UPPER WOLFCAMP11. Sec., T. R. M. or Blk. and Survey or Area
SEC 35/T20S/R27E/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 NESE / 1740 FSL / 730 FEL / LAT 32.5273566 / LONG -104.2457464
At proposed prod. zone NESE / 2080 FSL / 100 FEL / LAT 32.5283352 / LONG -104.209042714. Distance in miles and direction from nearest town or post office*
9 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)
100 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.
30 feet19. Proposed Depth
8864 feet / 19546 feet20. BLM/BIA Bond No. in file
FED: NM 169321. Elevations (Show whether DF, KDB, RT, GL, etc.)
3216 feet22. Approximate date work will start*
06/22/202223. Estimated duration
60 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature
(Electronic Submission)Name (Printed/Typed)
BRADLEY BISHOP / Ph: (575) 393-5905Date
09/14/2022Title
RegulatoryApproved by (Signature)
(Electronic Submission)Name (Printed/Typed)
CHRISTOPHER WALLS / Ph: (575) 234-2234Date
11/22/2024Title
Petroleum EngineerOffice
Carlsbad Field OfficeApplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)



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

WELL LOCATION INFORMATION

API Number 30-015-55873	Pool Code 98314 97068	Pool Name Avalon; Wolfcamp, Southwest ALACRAN HILLS; WOLFCAMP
Property Code 336575	Property Name OMAHA 36/31 WOLI FED COM	Well Number 1H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3216'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL I	Section 35	Township 20S	Range 27E	Lot	Ft. from N/S 1740 FSL	Ft. from E/W 730 FEL	Latitude 32.5273566°N	Longitude 104.2457464°W	County EDDY
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Bottom Hole Location

UL I	Section 31	Township 20S	Range 28E	Lot	Ft. from N/S 2080 FSL	Ft. from E/W 100 FEL	Latitude 32.5283352°N	Longitude 104.2090427°W	County EDDY
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Dedicated Acres 320	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL I	Section 35	Township 20S	Range 27E	Lot	Ft. from N/S 2080 FSL	Ft. from E/W 473 FEL	Latitude 32.5282922°N	Longitude 104.2449171°W	County EDDY
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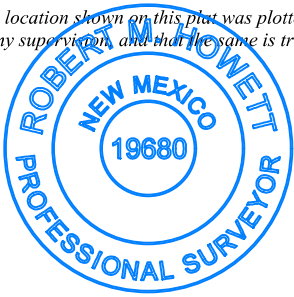
First Take Point (FTP)

UL L	Section 36	Township 20S	Range 27E	Lot	Ft. from N/S 2080 FSL	Ft. from E/W 100 FWL	Latitude 32.5282896°N	Longitude 104.2430584°W	County EDDY
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Last Take Point (LTP)

UL I	Section 31	Township 20S	Range 28E	Lot	Ft. from N/S 2080 FSL	Ft. from E/W 100 FEL	Latitude 32.5283352	Longitude -104.2090427	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3244'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> <i>Conner Whitley</i> 10/29/2024 Signature Date Conner Whitley Printed Name cwhitley@mewbourne.com Email Address		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor <i>Robert M. Howett</i> Certificate Number 19680 Date of Survey 09/10/2024	
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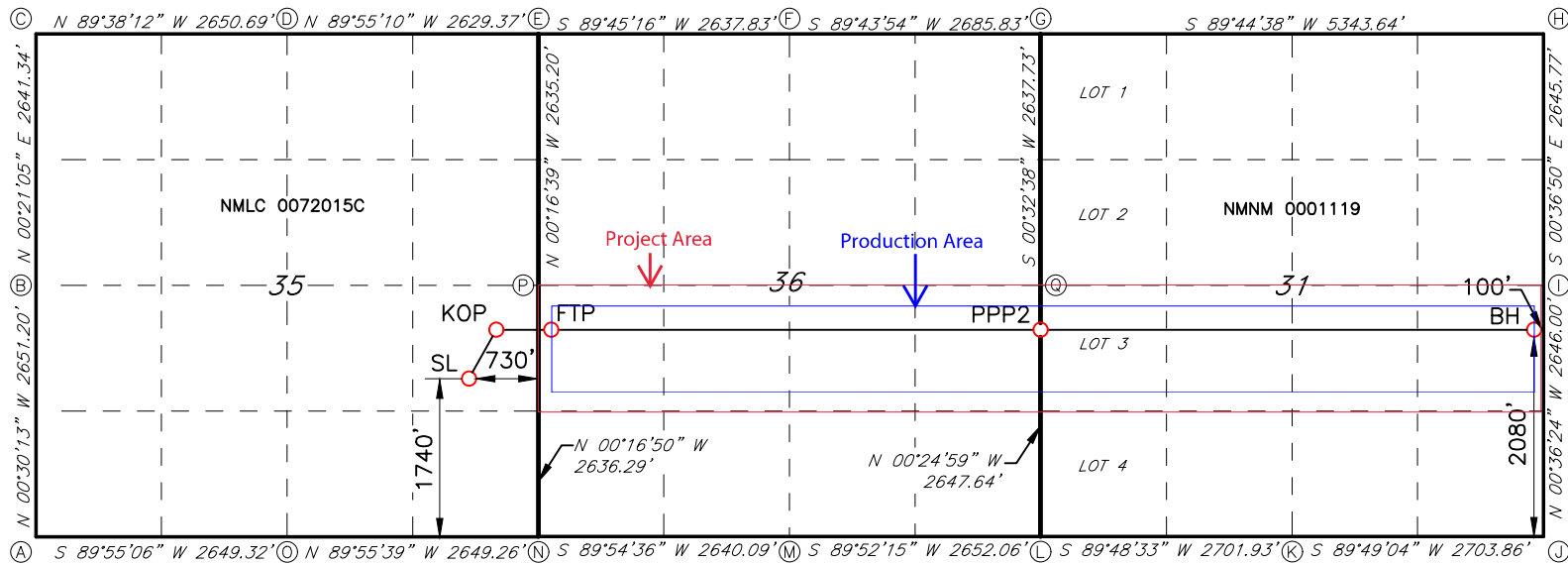
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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

OMAHA 36/31 WOLI FED COM 1H



GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
N: 555594.1 - E: 568331.9

LAT: 32.5273566° N
LONG: 104.2457464° W

KICK OFF POINT (KOP)
2080' FSL & 473' FEL (SEC.35)
N: 555934.7 - E: 568587.2

LAT: 32.5282922° N
LONG: 104.2449171° W

FIRST TAKE POINT (FTP)
2080' FSL & 100' FWL (SEC.36)
N: 555934.2 - E: 569160.0

LAT: 32.5282896° N
LONG: 104.2430584° W

PROPOSED PENETRATION POINT (PPP2)
2080' FSL & 0' FWL (SEC.31)
N: 555944.2 - E: 574346.0

LAT: 32.5283037° N
LONG: 104.2262317° W

BOTTOM HOLE (BH)
N: 555961.4 - E: 579643.6

LAT: 32.5283352° N
LONG: 104.2090427° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1942"
N: 553854.2 - E: 563772.9

B: FOUND BRASS CAP "1942"
N: 556504.6 - E: 563749.7

C: FOUND BRASS CAP "1942"
N: 559145.3 - E: 563765.8

D: FOUND BRASS CAP "1942"
N: 559128.5 - E: 566415.8

E: FOUND BRASS CAP "1942"
N: 559124.8 - E: 569044.6

F: FOUND BRASS CAP "1942"
N: 559136.1 - E: 571681.7

G: FOUND BRASS CAP "1941"
N: 559148.6 - E: 574366.9

H: FOUND BRASS CAP "1942"
N: 559172.5 - E: 579709.2

I: FOUND BRASS CAP "1942"
N: 556527.5 - E: 579737.6

J: FOUND BRASS CAP "1941"
N: 553882.3 - E: 579765.6

K: FOUND BRASS CAP "1942"
N: 553873.7 - E: 577062.4

L: FOUND BRASS CAP "1942"
N: 553864.7 - E: 574361.1

M: FOUND BRASS CAP "1942"
N: 553858.8 - E: 571709.7

N: FOUND BRASS CAP "1942"
N: 553854.6 - E: 569070.2

O: FOUND BRASS CAP "1942"
N: 553858.0 - E: 566421.6

P: FOUND BRASS CAP "1942"
N: 556490.2 - E: 569057.3

Q: FOUND BRASS CAP "1942"
N: 556511.7 - E: 574341.9

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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
Omaha 36/31 WOLI Fed Com 1H		M 36 20S 27E		1500	3000	5000
			1740 FSL x 730 FEL	Y1:300 Y2:180 Y3:100	Y1:1500 Y2:900 Y3:700	Y1:1000 Y2:600 Y3:400

IV. Central Delivery Point Name: Omaha 36/31 WOLI 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
Omaha 36/31 WOLI Fed Com 1H		01/01/2025	01/20/2025	02/20/2025	03/05/2025	03/05/2025

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.

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Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

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

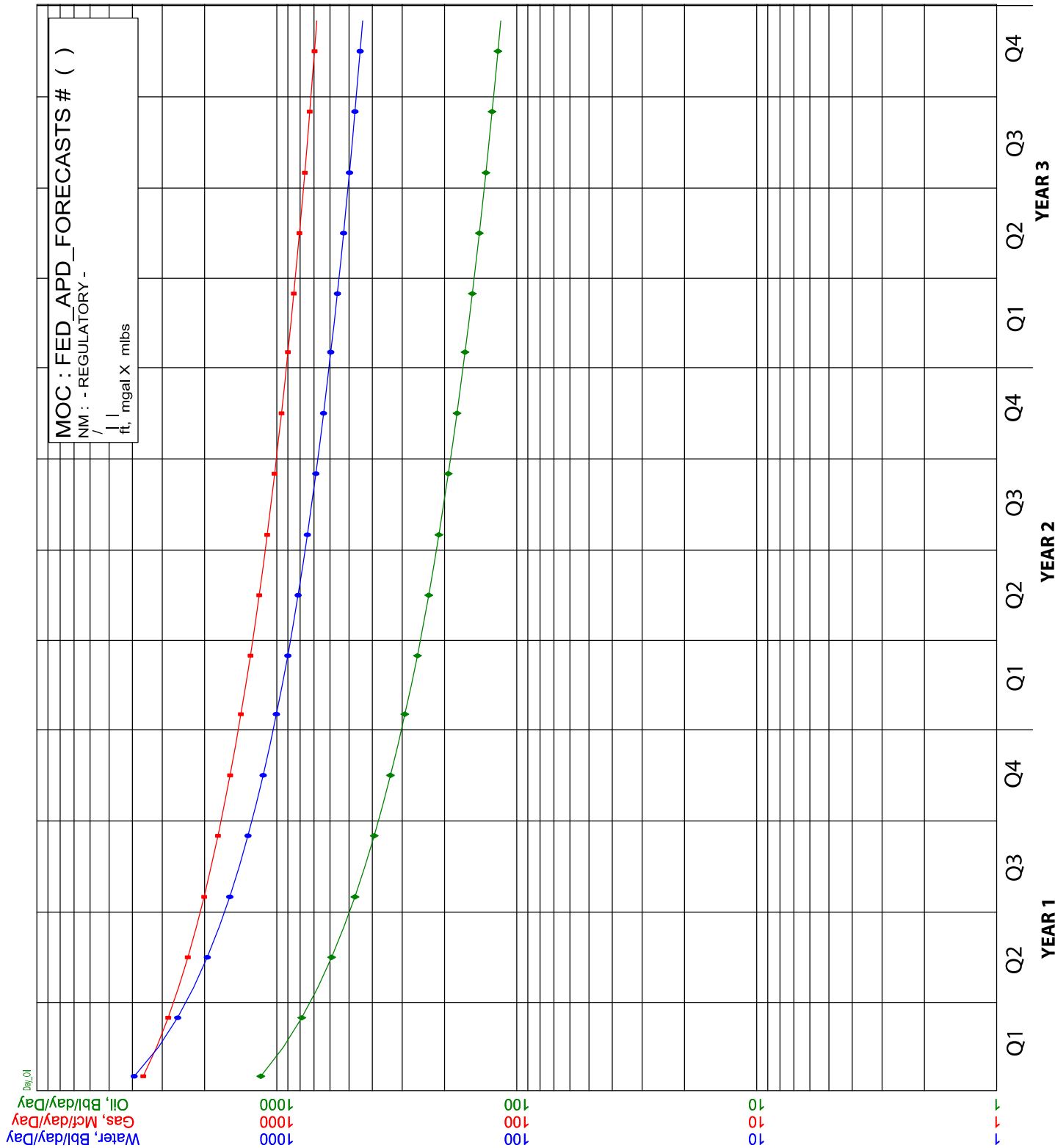
Mewbourne Oil Company

Natural Gas Management Plan – Attachment

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

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

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



Oil, Bbl/day
Qual=DDYWFMP2.0
Ref=1/2025
Cum=34406
Rem=34406
Yrs=3.00
Qj=1315.0
b=0.95000
De=77.00000
Df=24.15597
Qab=115.0

Gas, Mcf/day
Qual=DDYWFMP2.0
Ref=1/2025
Cum=152274.7
Rem=152274.7
Yrs=3.00
Qj=3860.0
b=1.100000
De=62.500000
Df=20.355806
Qab=673.5

Water, Bbl/d
Qual=DDYWFMP2.0
Ref=1/2025
Cum=1179800
Rem=1179800
Yrs=3.00
Qj=4500.0
b=1.100000
De=77.000000
Df=21.653105
Qab=433.8



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

Drilling Plan Data Report

11/22/2024

APD ID: 10400088005

Submission Date: 09/14/2022

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: OMAHA 36/31 WOLI FED COM

Well Number: 1H

Well Type: CONVENTIONAL GAS 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
9171992	UNKNOWN	3216	28	28	OTHER : Topsoil	NONE	N
10285660	YATES	2781	435	435	SANDSTONE	NATURAL GAS, OIL	N
9171993	CAPITAN REEF	2537	679	679	DOLOMITE, LIMESTONE	USEABLE WATER	N
9171985	LAMAR	743	2473	2473	LIMESTONE	NATURAL GAS, OIL	N
9171987	BONE SPRING	-1353	4569	4569	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
9171988	BONE SPRING 1ST	-2905	6121	6121	SANDSTONE	NATURAL GAS, OIL	N
9171989	BONE SPRING 2ND	-3666	6882	6882	SANDSTONE	NATURAL GAS, OIL	N
9174002	BONE SPRING 3RD	-4959	8175	8175	SANDSTONE	NATURAL GAS, OIL	N
9174003	WOLFCAMP	-5364	8580	8580	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 19546

Equipment: Annular, Blind Ram, Pipe Ram

Requesting Variance? YES

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

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

Choke Diagram Attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: OMAHA 36/31 W0LI FED COM

Well Number: 1H

Omaha_36_31_W0LI_Fed_Com_1H_3M_BOPE_Choke_Diagram_20220912070429.pdf

Flex_Line_Specs_API_16C_20241029151754.pdf

BOP Diagram Attachment:

Omaha_36_31_W0LI_Fed_Com_1H_5M_Mutli_Bowl_WH_20220912070448.pdf

Omaha_36_31_W0LI_Fed_Com_1H3M_BOPE_Schematic_20220912070448.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	600	0	600	3216	2616	600	H-40	48	ST&C	2.87	6.45	DRY	11.18	DRY	18.78
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2395	0	2395	2982	821	2395	J-55	36	LT&C	1.89	3.29	DRY	5.25	DRY	6.54
3	PRODUCTION	8.75	7.0	NEW	API	N	0	8162	0	8149	2982	-4933	8162	P-110	26	LT&C	1.52	2.42	DRY	3.27	DRY	3.91
4	LINER	6.125	4.5	NEW	API	N	7962	19546	7899	8864	-4683	-5648	11584	P-110	13.5	LT&C	2.1	2.45	DRY	6.91	DRY	8.63

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in_48__H40_STC_Csg_20241029152246.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: OMAHA 36/31 WOLI FED COMWell Number: 1H

Casing Attachments

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_36__J55_LTC_Csg_20241029151956.pdf

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26__P110_LTC_Csg_20241029151915.pdf

Casing ID: 4StringLINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5in_13.5__P110_LTC_Csg_20241029152343.pdf

Section 4 - Cement

Operator Name: MEWBOURNE OIL COMPANY

Well Name: OMAHA 36/31 WOLI 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
INTERMEDIATE	Lead	650	0	320	60	2.12	12.5	130	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		320	650	100	1.34	14.8	134	25	Class C	Retarder
SURFACE	Lead		0	410	270	2.12	12.5	580	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		410	600	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	650	650	1725	200	2.12	12.5	430	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1725	2395	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		629	7188	750	2.12	12.5	1590	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		7188	8162	200	1.18	15.6	236	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		7962	19546	740	1.85	13.5	1370	25	Class C	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: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. During spud operations/surface casing interval, fresh water will be used unless salt is encountered, in which case brine will be used.

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

Circulating Medium Table

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** OMAHA 36/31 W0LI 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	600	SPUD MUD	8.4	8.6							
600	2395	WATER-BASED MUD	8.4	8.6							
2395	8162	SALT SATURATED	8.6	9.7							
8162	19546	OIL-BASED MUD	10	11							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP to surface in deeper offset well: Omaha 36/31 W0MP Fed Com #1H.

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5070

Anticipated Surface Pressure: 3119

Anticipated Bottom Hole Temperature(F): 1400

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

Omaha_36_31_W0LI_Fed_Com_1H_H2S_Plan_20220912071049.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: OMAHA 36/31 W0LI FED COM

Well Number: 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Omaha_36_31_W0LI_Fed_Com_1H_MOC_Dir_Plan_20241029153148.pdf

Omaha_36_31_W0LI_Fed_Com_1H_MOC_Dir_Plot_20241029153152.pdf

Other proposed operations facets description:

Conductor to be set 200' to protect any potential fresh water.

Other proposed operations facets attachment:

Omaha_36_31_W0LI_Fed_Com_1H_Drlg_Program_20241029153248.pdf

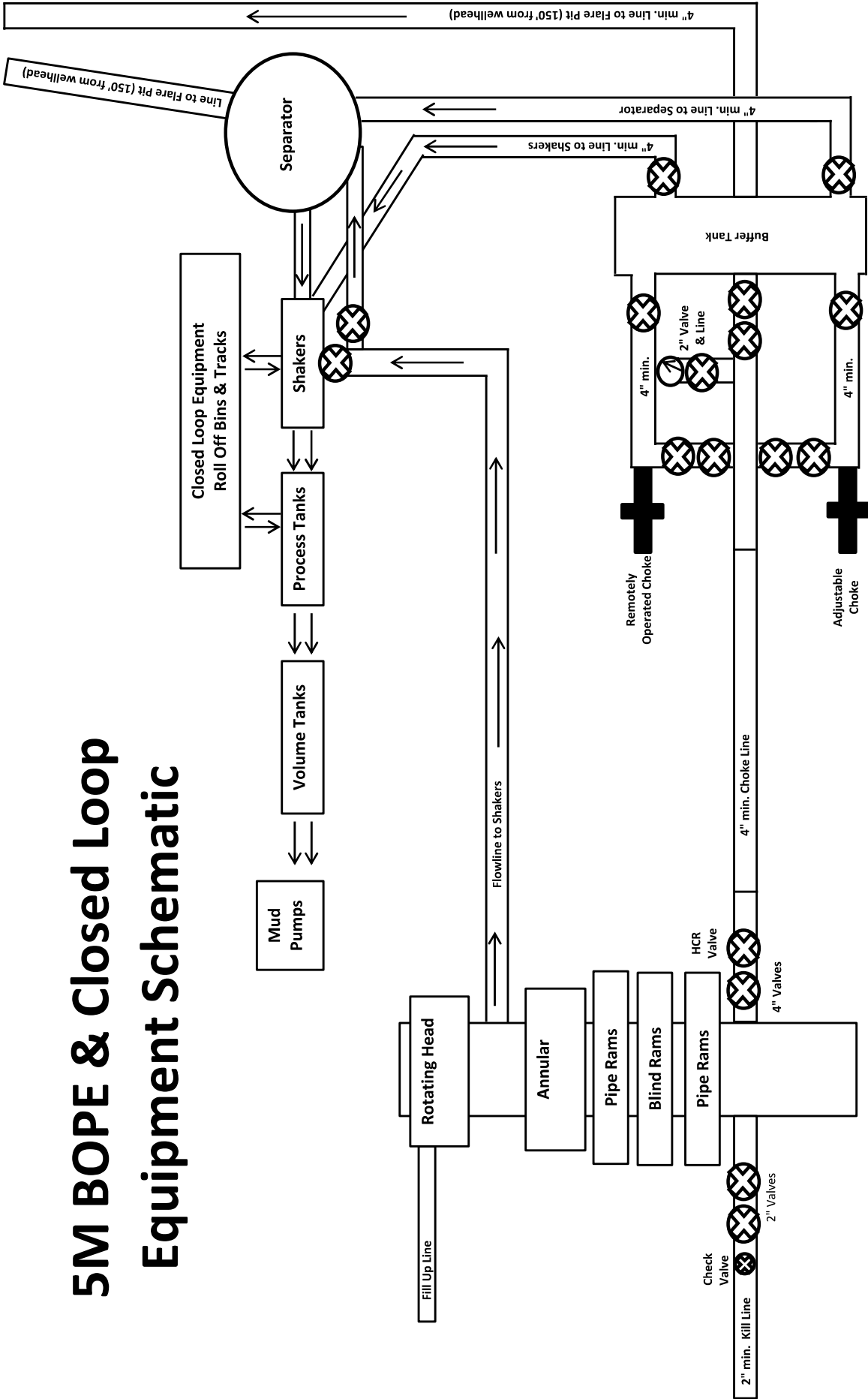
Omaha_36_31_W0LI_Fed_Com_1H_NGMP_20241029154111.pdf

Other Variance attachment:

MOC_Break_Testing_Variance_20241029153203.pdf

MOC_Offline_Cementing_Variance_20241029153216.pdf

5M BOPE & Closed Loop Equipment Schematic



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

Drawing not to scale



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 :

Date :

Signature :

QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:

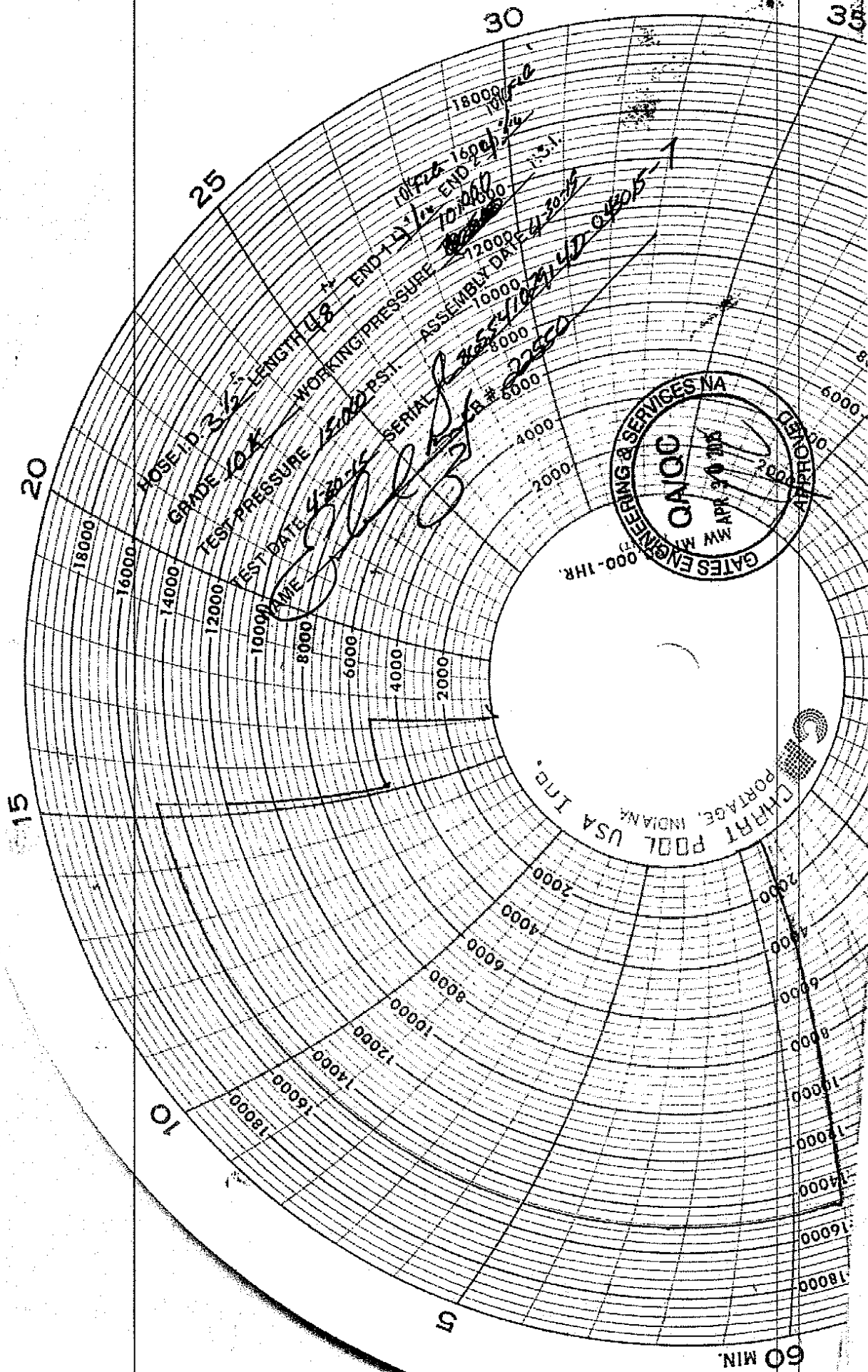
Date :

Signature :

PRODUCTION
4/30/2015
<i>Justin Cropper</i>

Form PTC - 01 Rev.0/2







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Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

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Date :

Signature :

QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:

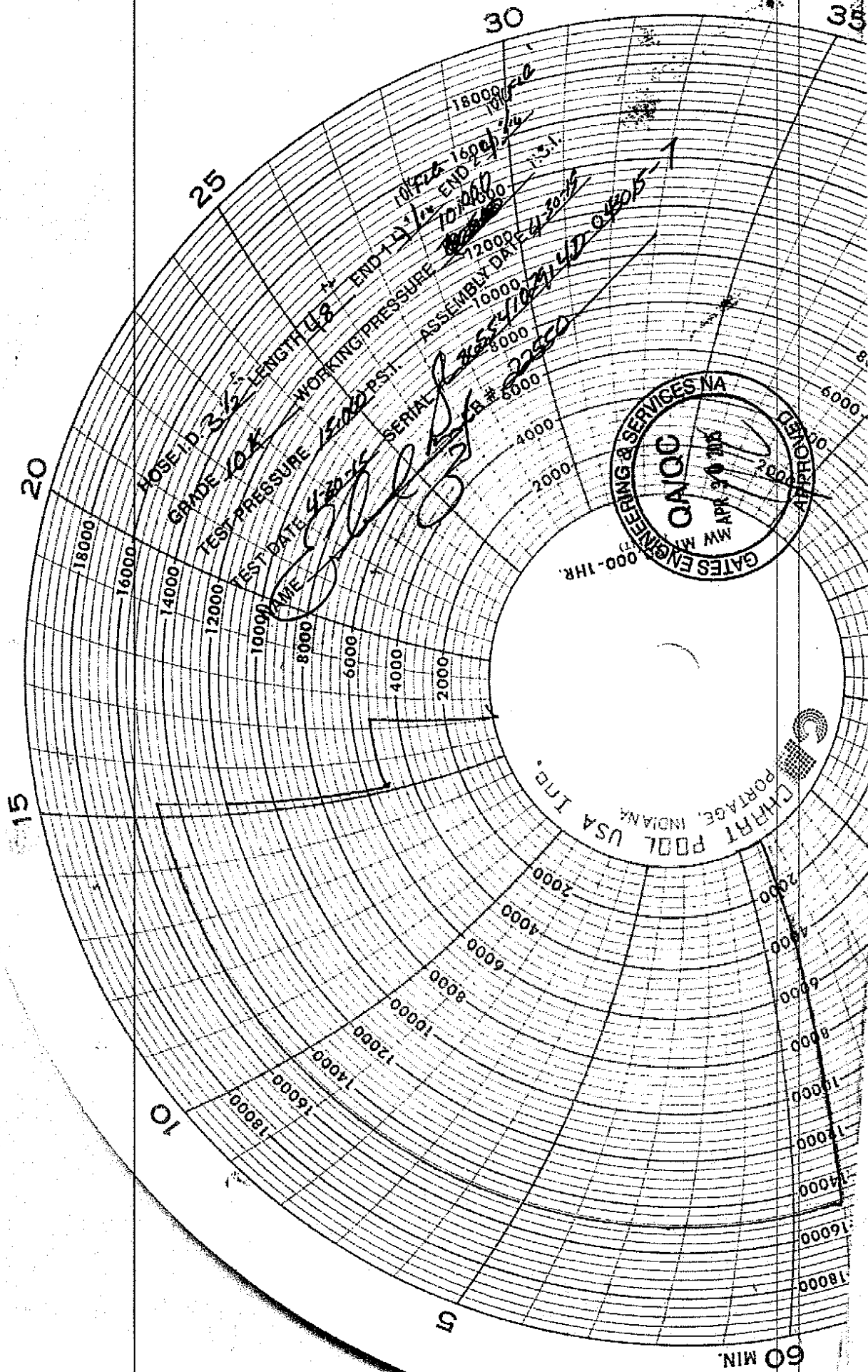
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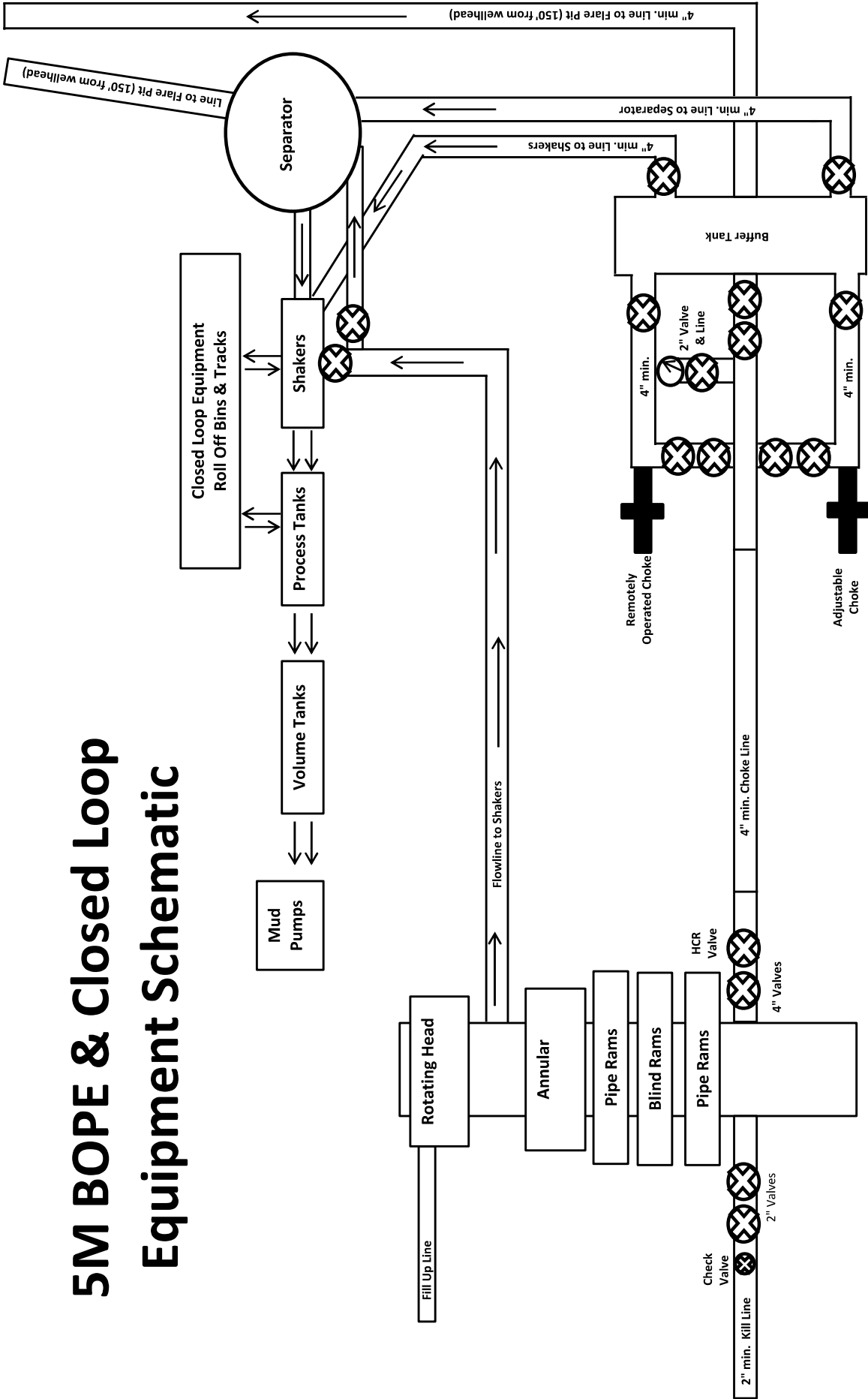
PRODUCTION
4/30/2015
<i>Justin Cropper</i>

Form PTC - 01 Rev.0/2





5M BOPE & Closed Loop Equipment Schematic



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

Drawing not to scale



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Quality Manager :
 Date :
 Signature :

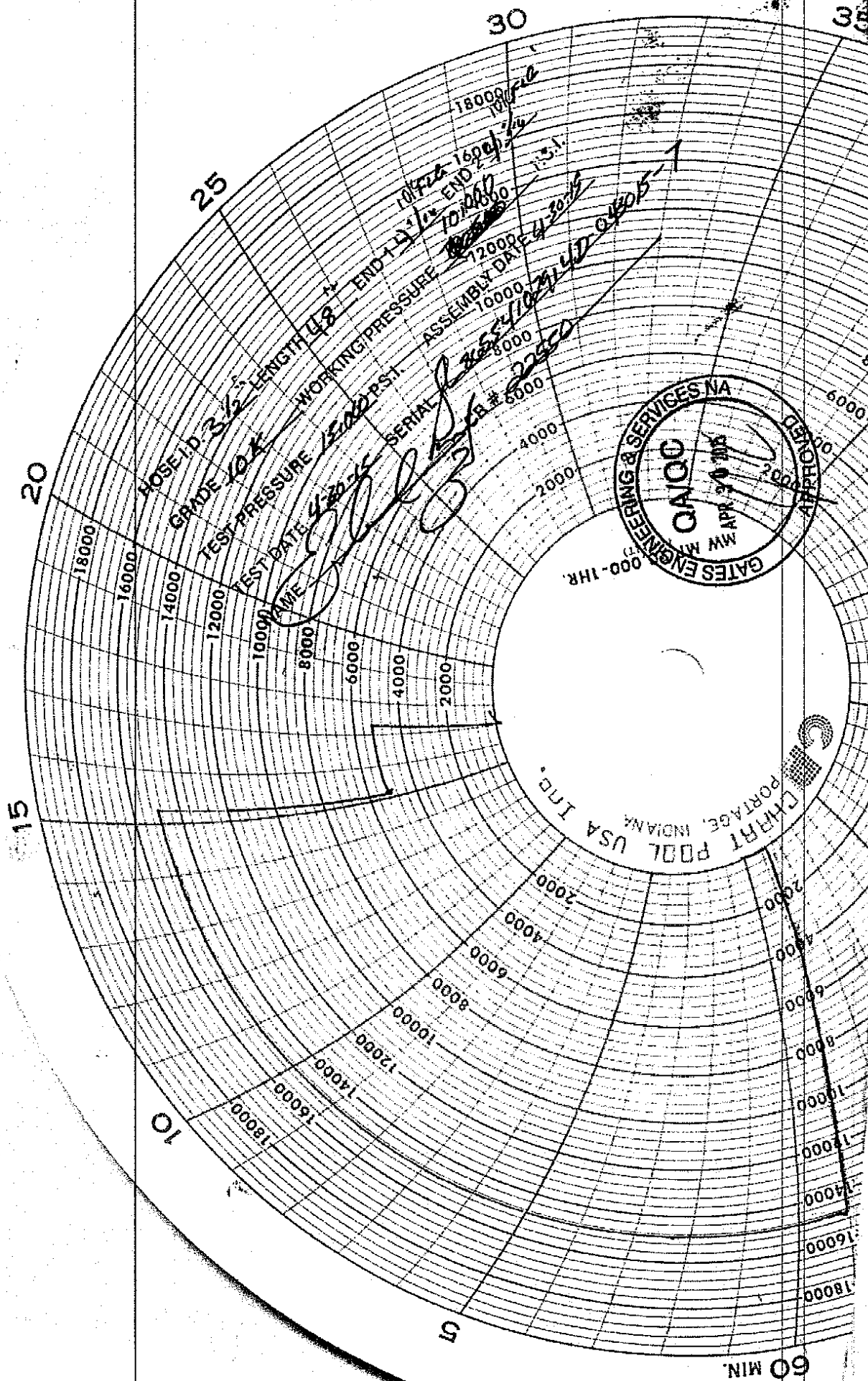
QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:
 Date :
 Signature :

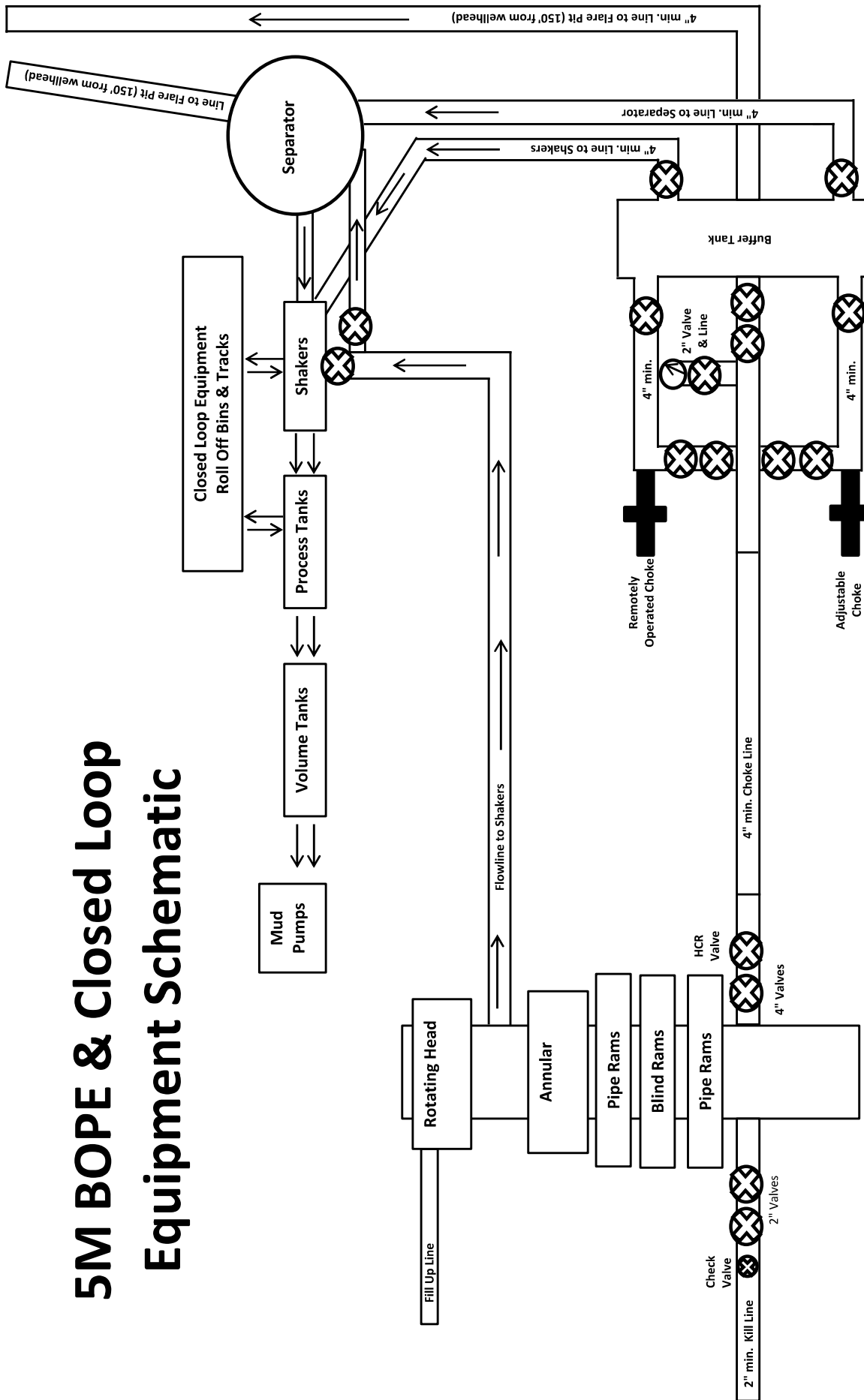
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4/30/2015
<i>Justin Cropper</i>

Form PTC - 01 Rev.0/2





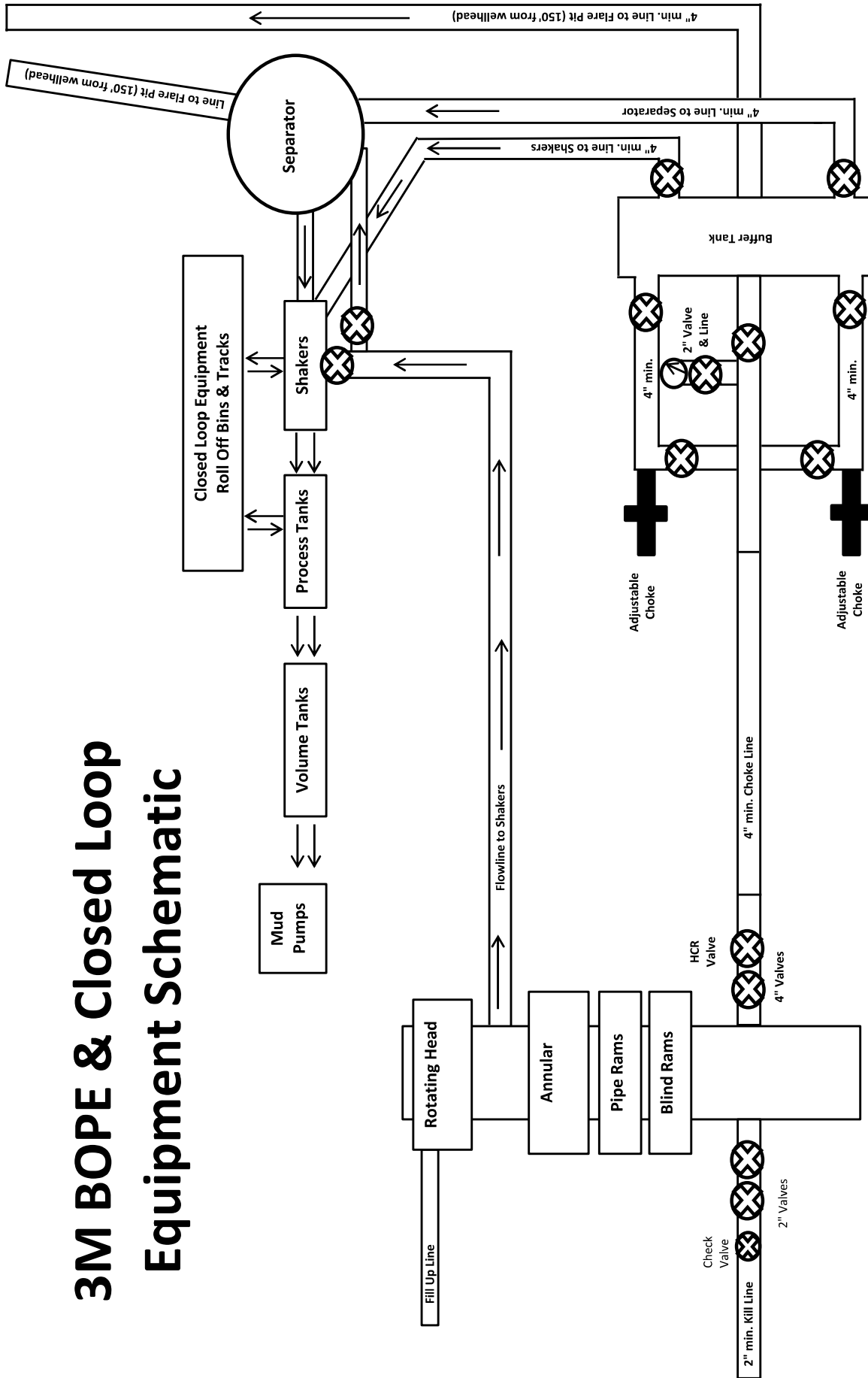
5M BOPE & Closed Loop Equipment Schematic



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

Drawing not to scale

3M BOPE & Closed Loop Equipment Schematic



Drawing not to scale



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTTY/QR-5.7.1-28

No: 230826015

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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-126-002

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

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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

No:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

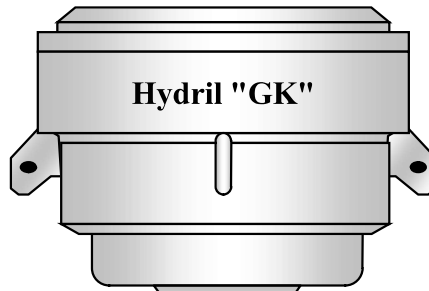
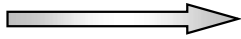
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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

QC Manager: *Jiaolong Chen*

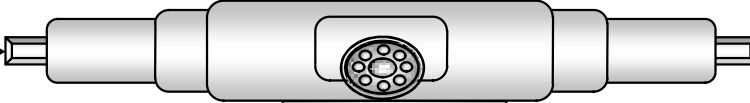
Date:Aug 26, 2023

Hydril "GK"
13 5/8" 5M

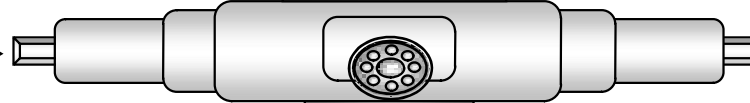


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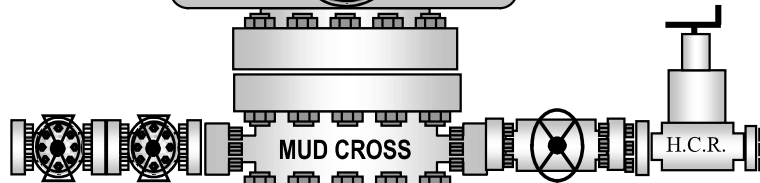
Cameron Type U
13 5/8" 5M



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

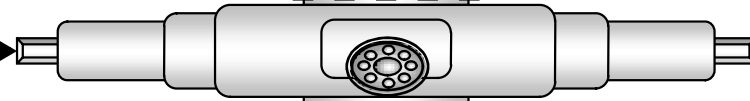


BLIND RAMS



MUD CROSS

H.C.R.



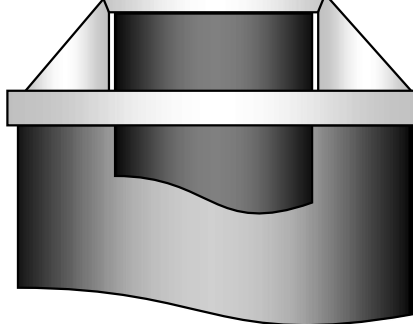
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13 5/8" 5M

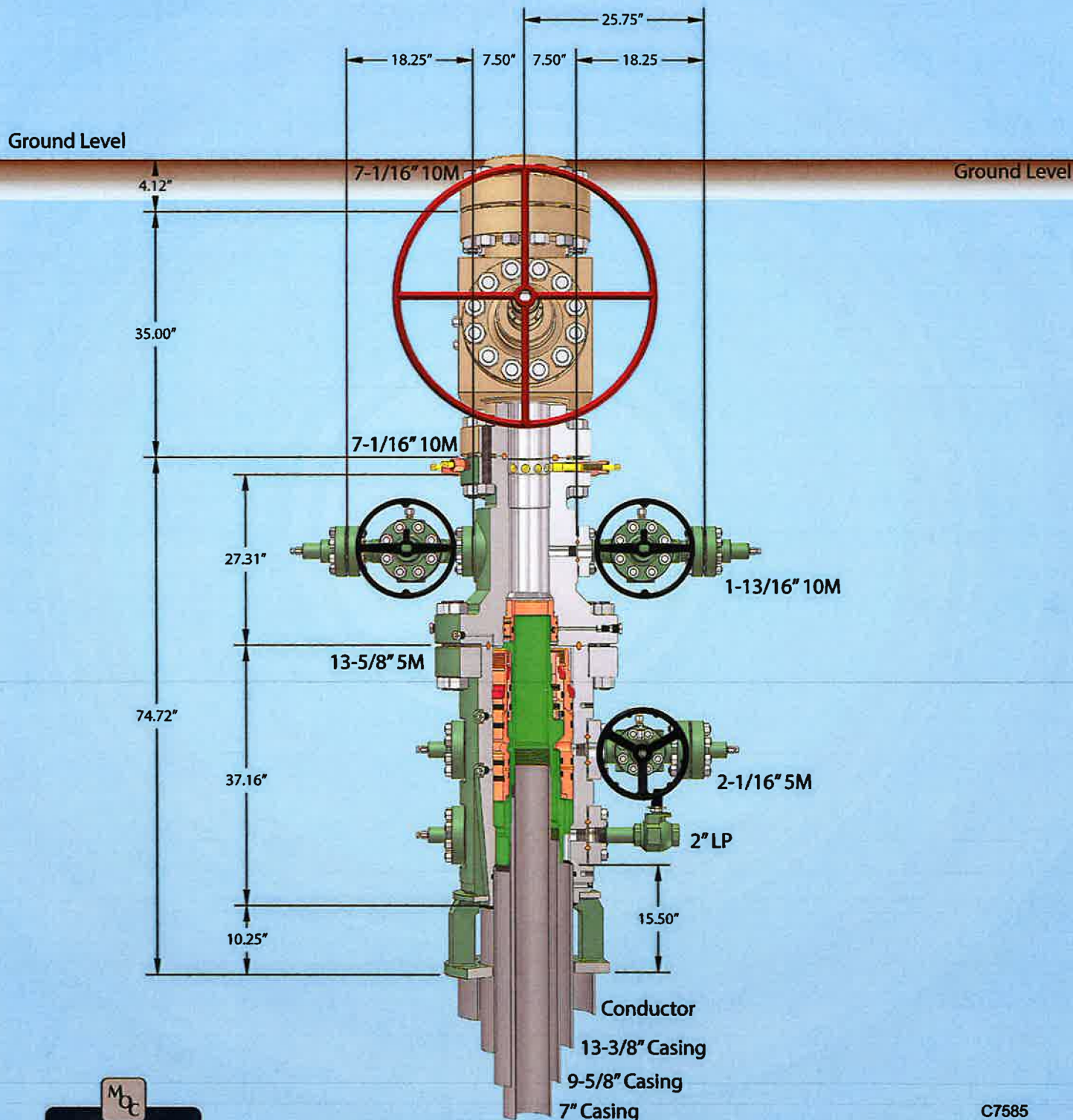
13 5/8" 5M

13 5/8" 5M





13-5/8" MN-DS Wellhead System



MEWBOURNE
OIL COMPANY

C7585
Rev. 02

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

Cuffing Hanger 57" conductor cut-off



13-5/8" MN-DS Wellhead System

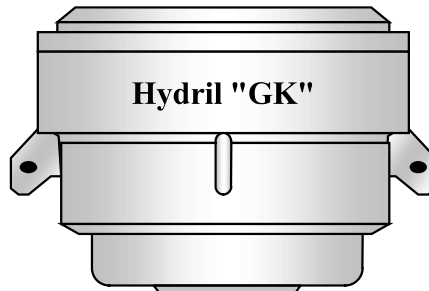
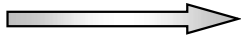


C7585
Rev. 02

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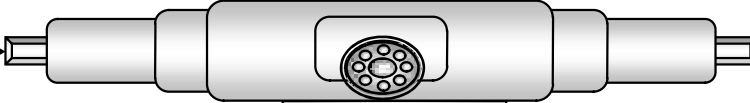
Cuffing Hanger 57" conductor cut-off

Hydril "GK"
13 5/8" 5M

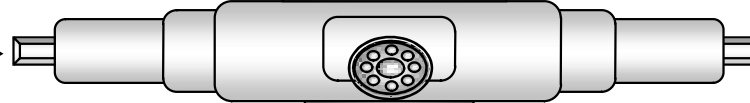


Hydril "GK"

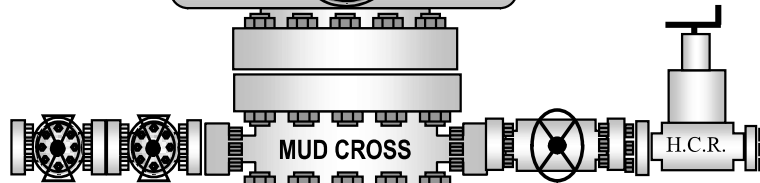
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13 5/8" 5M



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

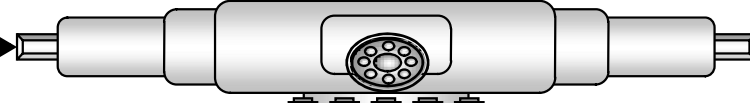


BLIND RAMS



MUD CROSS

H.C.R.



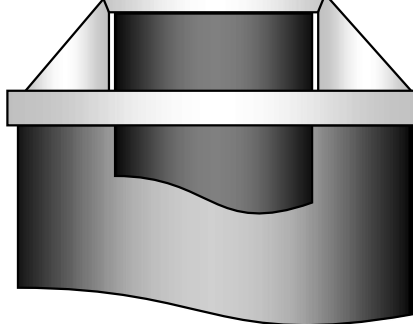
7" RAMS



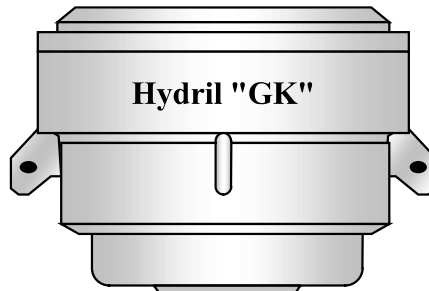
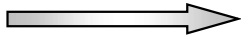
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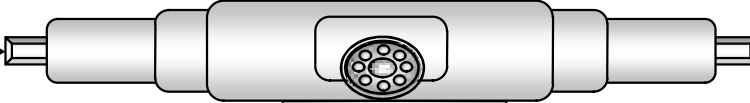


Hydril "GK"
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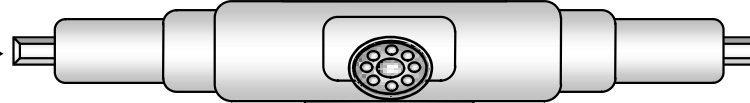


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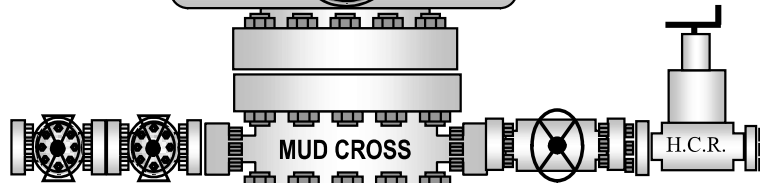
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13 5/8" 5M



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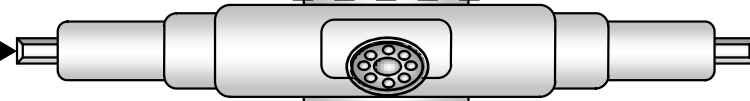


BLIND RAMS



MUD CROSS

H.C.R.



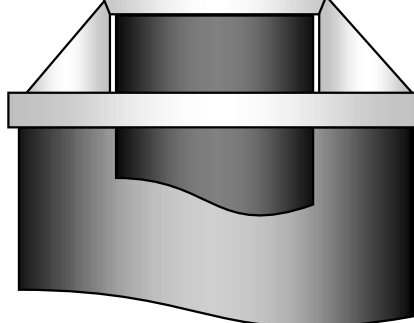
7" RAMS



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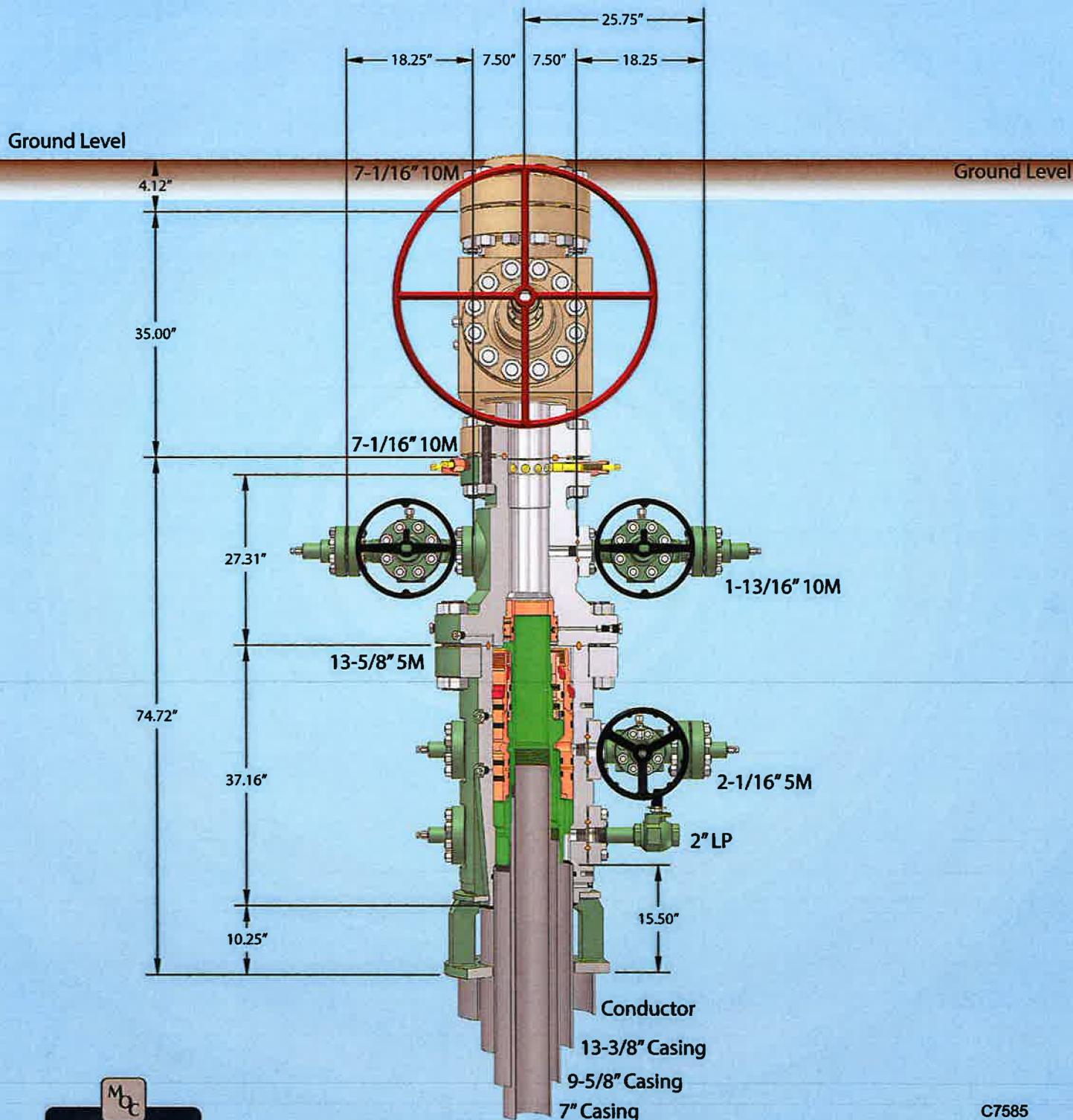
13 5/8" 5M

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13-5/8" MN-DS Wellhead System



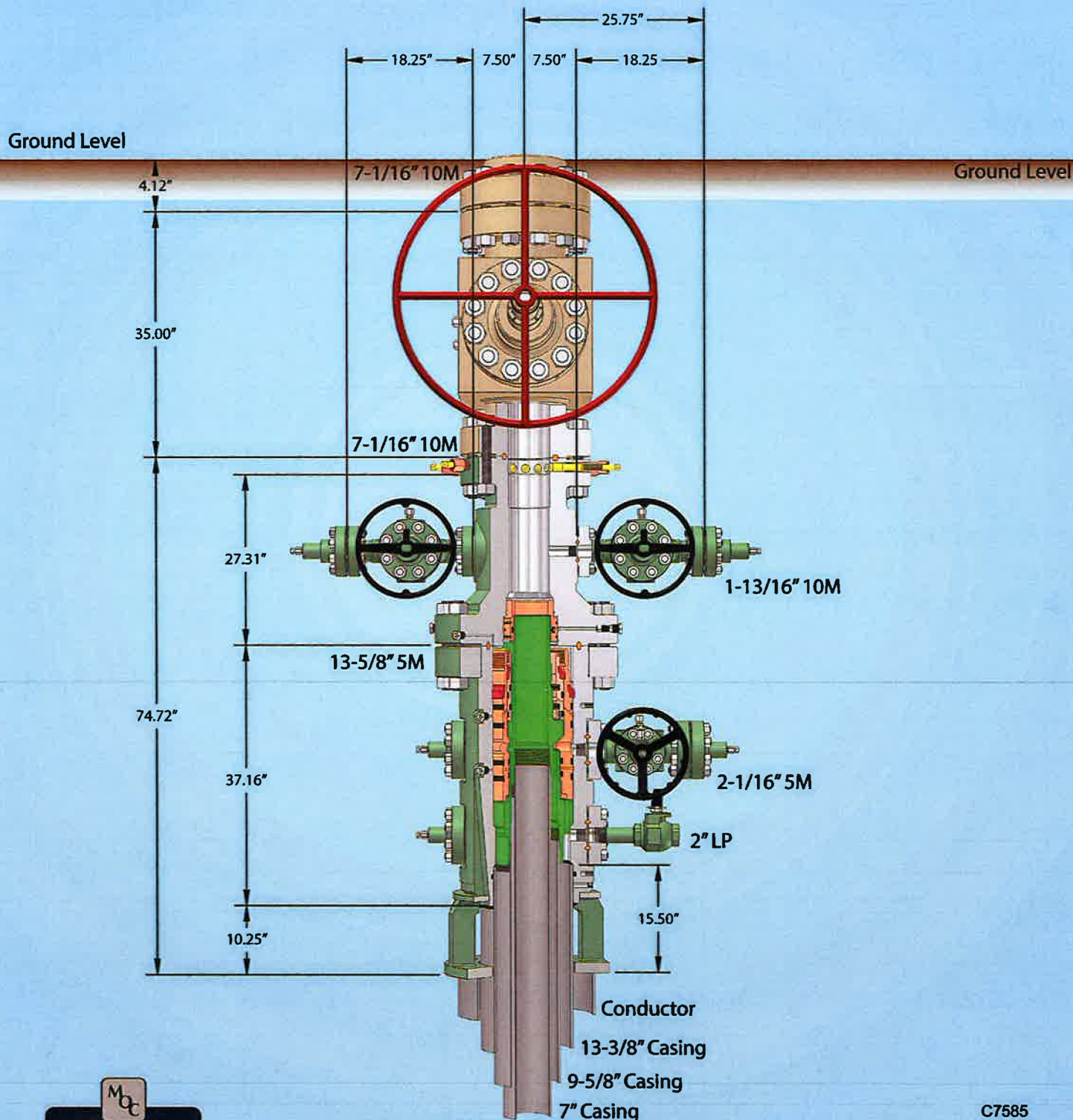
C7585
Rev. 02

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Cuffing Hange 57" conductor cut-off



13-5/8" MN-DS Wellhead System

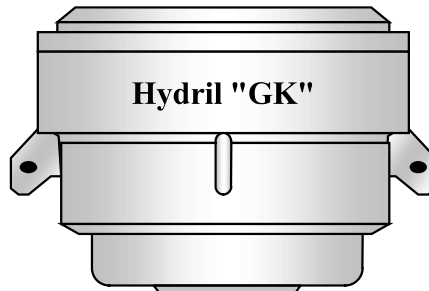
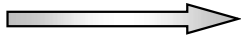


C7585
Rev. 02

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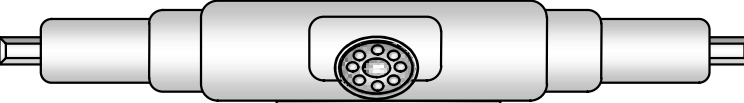
Cuffing Hanger 57" conductor cut-off

Hydril "GK"
13 5/8" 3M

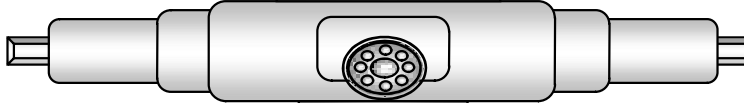


Hydril "GK"

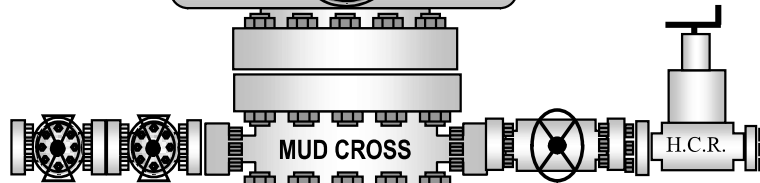
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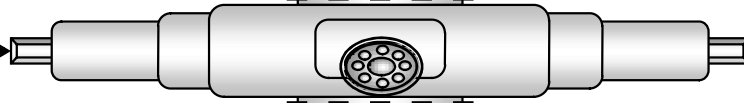


BLIND RAMS



MUD CROSS

H.C.R.



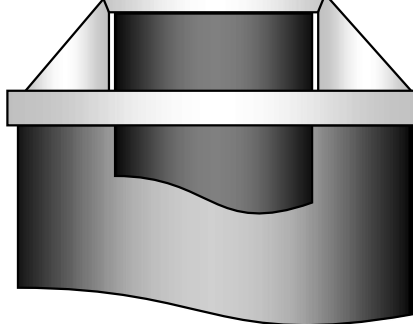
7" RAMS



13 5/8" 3M

13 5/8" 3M

13 5/8" 3M





API LTC

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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	693 x1000 lb	Minimum Torque	5200 ft-lb
Connection OD	7.875 in.	Coupling Face Load	799 x1000 lb	Optimum Torque	6930 ft-lb
Hand Tight Stand Off	3 in.	Internal Pressure Capacity	9960 psi	Maximum Torque	8660 ft-lb

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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API LTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	9.625 in.	Wall Thickness	0.352 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry		Performance	
Nominal OD	9.625 in.	Drift	8.765 in.
Wall Thickness	0.352 in.	Plain End Weight	34.89 lb/ft
Nominal Weight	36 lb/ft	OD Tolerance	API
Nominal ID	8.921 in.		
		SMYS	55,000 psi
		Min UTS	75,000 psi
		Body Yield Strength	564 x1000 lb
		Min. Internal Yield Pressure	3520 psi
		Collapse Pressure	2020 psi
		Max. Allowed Bending	26 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	453 x1000 lb	Minimum Torque	3400 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	4530 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3520 psi	Maximum Torque	5660 ft-lb

Notes

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API STC

Coupling	Pipe Body
Grade: H40	Grade: H40
Body: -	1st Band: Black
1st Band: Black	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.330 in.	Grade	H40
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry		Performance	
Nominal OD	13.375 in.	Drift	12.559 in.
Wall Thickness	0.330 in.	Plain End Weight	46.02 lb/ft
Nominal Weight	48 lb/ft	OD Tolerance	API
Nominal ID	12.715 in.		
		SMYS	40,000 psi
		Min UTS	60,000 psi
		Body Yield Strength	541 x1000 lb
		Min. Internal Yield Pressure	1730 psi
		Collapse Pressure	740 psi
		Max. Allowed Bending	14 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	322 x1000 lb	Minimum Torque	2420 ft-lb
Connection OD	14.375 in.	Coupling Face Load	377 x1000 lb	Optimum Torque	3220 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	1730 psi	Maximum Torque	4030 ft-lb

Notes

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API LTC

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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	338 x1000 lb	Minimum Torque	2750 ft-lb
Connection OD	5.250 in.	Coupling Face Load	473 x1000 lb	Optimum Torque	3660 ft-lb
Hand Tight Stand Off	3 in.	Internal Pressure Capacity	12,410 psi	Maximum Torque	4580 ft-lb

Notes

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Mewbourne Oil Company, Omaha 36/31 W0LI Fed Com #1H**Sec 36, T20S, R27E****SHL: 1260' FSL & 205' FWL, Sec 36****BHL: 2080' FSL & 100' FEL, Sec 31****Casing Program**

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
26"	0'	450'	20"	94	J55	BTC	2.53	10.25	33.14	34.99
17.5"	0'	1085'	13.375"	48	H40	STC	1.36	3.07	6.18	10.39
12.25"	0'	2400'	9.625"	36	J55	LTC	1.84	3.21	5.24	6.53
8.75"	0'	8100'	7"	26	P110	LTC	1.53	2.45	3.03	3.94
6.125"	7900'	19103'	4.5"	13.5	P110	LTC	2.31	2.69	2.23	2.79
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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P 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 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

Eddy County, New Mexico NAD 83

Omaha 36-31 W0LI Fed Com 1H

Sec 35, T20S, R27E

SHL: 1740' FSL & 730' FEL (Sec 35)

BHL: 2080' FSL & 100' FEL (Sec 31)

Plan: Design #1

Standard Planning Report

29 October, 2024

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Omaha 36-31 W0LI Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3244.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3244.0usft (Original Well Elev)
Site:	Omaha 36-31 W0LI Fed Com 1H	North Reference:	Grid
Well:	Sec 35, T20S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2080' FSL & 100' FEL (Sec 31)		
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	Omaha 36-31 W0LI Fed Com 1H,		
Site Position:		Northing:	555,594.10 usft
From:	Map	Easting:	568,331.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.5273566
		Longitude:	-104.2457462

Well	Sec 35, T20S, R27E		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,244.0 usft
Grid Convergence:	0.05 °	Ground Level:	3,216.0 usft
		Latitude:	32.5273566
		Longitude:	-104.2457462

Wellbore	BHL: 2080' FSL & 100' FEL (Sec 31)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.48	60.27	48,347.32928459

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	88.14	

Plan Survey Tool Program	Date 10/29/2024				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	0.0	Design #1 (BHL: 2080' FSL & 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	

Planning Report

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Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3244.0usft (Original Well Elev)
Site:	Omaha 36-31 W0LI Fed Com 1H	North Reference:	Grid
Well:	Sec 35, T20S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2080' FSL & 100' FEL (Sec 31)		
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: 1740' FSL & 730' FEL (Sec 35)									
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	2.00	36.85	900.0	1.4	1.0	1.1	2.00	2.00	0.00
969.7	3.39	36.85	969.6	4.0	3.0	3.1	2.00	2.00	0.00
1,000.0	3.39	36.85	999.8	5.5	4.1	4.3	0.00	0.00	0.00
1,100.0	3.39	36.85	1,099.7	10.2	7.6	8.0	0.00	0.00	0.00
1,200.0	3.39	36.85	1,199.5	14.9	11.2	11.7	0.00	0.00	0.00
1,300.0	3.39	36.85	1,299.3	19.7	14.7	15.4	0.00	0.00	0.00
1,400.0	3.39	36.85	1,399.1	24.4	18.3	19.1	0.00	0.00	0.00
1,500.0	3.39	36.85	1,499.0	29.1	21.8	22.8	0.00	0.00	0.00
1,600.0	3.39	36.85	1,598.8	33.9	25.4	26.5	0.00	0.00	0.00
1,700.0	3.39	36.85	1,698.6	38.6	28.9	30.2	0.00	0.00	0.00
1,800.0	3.39	36.85	1,798.4	43.3	32.5	33.9	0.00	0.00	0.00
1,900.0	3.39	36.85	1,898.3	48.1	36.0	37.6	0.00	0.00	0.00
2,000.0	3.39	36.85	1,998.1	52.8	39.6	41.3	0.00	0.00	0.00
2,100.0	3.39	36.85	2,097.9	57.6	43.1	45.0	0.00	0.00	0.00
2,200.0	3.39	36.85	2,197.7	62.3	46.7	48.7	0.00	0.00	0.00
2,300.0	3.39	36.85	2,297.6	67.0	50.2	52.4	0.00	0.00	0.00
2,400.0	3.39	36.85	2,397.4	71.8	53.8	56.1	0.00	0.00	0.00
2,500.0	3.39	36.85	2,497.2	76.5	57.3	59.8	0.00	0.00	0.00
2,600.0	3.39	36.85	2,597.0	81.2	60.9	63.5	0.00	0.00	0.00
2,700.0	3.39	36.85	2,696.9	86.0	64.4	67.2	0.00	0.00	0.00
2,800.0	3.39	36.85	2,796.7	90.7	68.0	70.9	0.00	0.00	0.00
2,900.0	3.39	36.85	2,896.5	95.4	71.5	74.6	0.00	0.00	0.00
3,000.0	3.39	36.85	2,996.3	100.2	75.1	78.3	0.00	0.00	0.00
3,100.0	3.39	36.85	3,096.2	104.9	78.6	82.0	0.00	0.00	0.00
3,200.0	3.39	36.85	3,196.0	109.6	82.2	85.7	0.00	0.00	0.00
3,300.0	3.39	36.85	3,295.8	114.4	85.7	89.4	0.00	0.00	0.00
3,400.0	3.39	36.85	3,395.6	119.1	89.3	93.1	0.00	0.00	0.00
3,500.0	3.39	36.85	3,495.5	123.9	92.8	96.8	0.00	0.00	0.00
3,600.0	3.39	36.85	3,595.3	128.6	96.4	100.5	0.00	0.00	0.00
3,700.0	3.39	36.85	3,695.1	133.3	99.9	104.2	0.00	0.00	0.00
3,800.0	3.39	36.85	3,794.9	138.1	103.5	107.9	0.00	0.00	0.00
3,900.0	3.39	36.85	3,894.8	142.8	107.0	111.6	0.00	0.00	0.00
4,000.0	3.39	36.85	3,994.6	147.5	110.6	115.3	0.00	0.00	0.00
4,100.0	3.39	36.85	4,094.4	152.3	114.1	119.0	0.00	0.00	0.00
4,200.0	3.39	36.85	4,194.2	157.0	117.7	122.7	0.00	0.00	0.00
4,300.0	3.39	36.85	4,294.1	161.7	121.2	126.4	0.00	0.00	0.00
4,400.0	3.39	36.85	4,393.9	166.5	124.8	130.1	0.00	0.00	0.00
4,500.0	3.39	36.85	4,493.7	171.2	128.3	133.8	0.00	0.00	0.00
4,600.0	3.39	36.85	4,593.5	175.9	131.9	137.5	0.00	0.00	0.00
4,700.0	3.39	36.85	4,693.4	180.7	135.4	141.2	0.00	0.00	0.00
4,800.0	3.39	36.85	4,793.2	185.4	139.0	144.9	0.00	0.00	0.00
4,900.0	3.39	36.85	4,893.0	190.2	142.5	148.6	0.00	0.00	0.00
5,000.0	3.39	36.85	4,992.8	194.9	146.1	152.3	0.00	0.00	0.00
5,100.0	3.39	36.85	5,092.7	199.6	149.6	156.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Omaha 36-31 W0LI Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3244.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3244.0usft (Original Well Elev)
Site:	Omaha 36-31 W0LI Fed Com 1H	North Reference:	Grid
Well:	Sec 35, T20S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2080' FSL & 100' FEL (Sec 31)		
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)
5,200.0	3.39	36.85	5,192.5	204.4	153.2	159.7	0.00	0.00	0.00
5,300.0	3.39	36.85	5,292.3	209.1	156.7	163.4	0.00	0.00	0.00
5,400.0	3.39	36.85	5,392.1	213.8	160.3	167.1	0.00	0.00	0.00
5,500.0	3.39	36.85	5,492.0	218.6	163.8	170.8	0.00	0.00	0.00
5,600.0	3.39	36.85	5,591.8	223.3	167.4	174.5	0.00	0.00	0.00
5,700.0	3.39	36.85	5,691.6	228.0	170.9	178.2	0.00	0.00	0.00
5,800.0	3.39	36.85	5,791.4	232.8	174.5	181.9	0.00	0.00	0.00
5,900.0	3.39	36.85	5,891.3	237.5	178.0	185.6	0.00	0.00	0.00
6,000.0	3.39	36.85	5,991.1	242.2	181.6	189.3	0.00	0.00	0.00
6,100.0	3.39	36.85	6,090.9	247.0	185.1	193.0	0.00	0.00	0.00
6,200.0	3.39	36.85	6,190.7	251.7	188.7	196.8	0.00	0.00	0.00
6,300.0	3.39	36.85	6,290.6	256.5	192.2	200.5	0.00	0.00	0.00
6,400.0	3.39	36.85	6,390.4	261.2	195.8	204.2	0.00	0.00	0.00
6,500.0	3.39	36.85	6,490.2	265.9	199.3	207.9	0.00	0.00	0.00
6,600.0	3.39	36.85	6,590.0	270.7	202.9	211.6	0.00	0.00	0.00
6,700.0	3.39	36.85	6,689.9	275.4	206.4	215.3	0.00	0.00	0.00
6,800.0	3.39	36.85	6,789.7	280.1	210.0	219.0	0.00	0.00	0.00
6,900.0	3.39	36.85	6,889.5	284.9	213.5	222.7	0.00	0.00	0.00
7,000.0	3.39	36.85	6,989.3	289.6	217.1	226.4	0.00	0.00	0.00
7,100.0	3.39	36.85	7,089.2	294.3	220.6	230.1	0.00	0.00	0.00
7,200.0	3.39	36.85	7,189.0	299.1	224.2	233.8	0.00	0.00	0.00
7,300.0	3.39	36.85	7,288.8	303.8	227.7	237.5	0.00	0.00	0.00
7,400.0	3.39	36.85	7,388.6	308.6	231.3	241.2	0.00	0.00	0.00
7,500.0	3.39	36.85	7,488.5	313.3	234.8	244.9	0.00	0.00	0.00
7,600.0	3.39	36.85	7,588.3	318.0	238.4	248.6	0.00	0.00	0.00
7,700.0	3.39	36.85	7,688.1	322.8	241.9	252.3	0.00	0.00	0.00
7,800.0	3.39	36.85	7,787.9	327.5	245.5	256.0	0.00	0.00	0.00
7,900.0	3.39	36.85	7,887.8	332.2	249.0	259.7	0.00	0.00	0.00
7,991.9	3.39	36.85	7,979.4	336.6	252.3	263.1	0.00	0.00	0.00
8,000.0	3.23	36.85	7,987.6	337.0	252.6	263.4	2.00	-2.00	0.00
8,100.0	1.23	36.85	8,087.5	340.1	254.9	265.8	2.00	-2.00	0.00
8,161.5	0.00	0.00	8,149.0	340.6	255.3	266.2	2.00	-2.00	0.00
KOP: 2080' FSL & 473' FEL (Sec 35)									
8,200.0	3.85	89.86	8,187.5	340.6	256.6	267.5	10.00	10.00	0.00
8,250.0	8.85	89.86	8,237.1	340.6	262.1	273.0	10.00	10.00	0.00
8,300.0	13.85	89.86	8,286.1	340.6	272.0	282.9	10.00	10.00	0.00
8,350.0	18.85	89.86	8,334.1	340.7	286.0	296.9	10.00	10.00	0.00
8,400.0	23.85	89.86	8,380.7	340.7	304.2	315.1	10.00	10.00	0.00
8,450.0	28.84	89.86	8,425.5	340.8	326.4	337.3	10.00	10.00	0.00
8,500.0	33.84	89.86	8,468.1	340.8	352.4	363.3	10.00	10.00	0.00
8,550.0	38.84	89.86	8,508.4	340.9	382.0	392.9	10.00	10.00	0.00
8,600.0	43.84	89.86	8,545.9	341.0	415.0	425.9	10.00	10.00	0.00
8,650.0	48.84	89.86	8,580.4	341.1	451.2	462.0	10.00	10.00	0.00
8,700.0	53.84	89.86	8,611.7	341.2	490.2	501.0	10.00	10.00	0.00
8,750.0	58.84	89.86	8,639.4	341.3	531.8	542.6	10.00	10.00	0.00
8,800.0	63.84	89.86	8,663.3	341.4	575.7	586.5	10.00	10.00	0.00
8,850.0	68.84	89.86	8,683.4	341.5	621.5	632.2	10.00	10.00	0.00
8,900.0	73.84	89.86	8,699.4	341.6	668.8	679.6	10.00	10.00	0.00
8,950.0	78.84	89.86	8,711.2	341.7	717.4	728.1	10.00	10.00	0.00
9,000.0	83.84	89.86	8,718.7	341.8	766.8	777.5	10.00	10.00	0.00
9,053.9	89.22	89.86	8,722.0	342.0	820.6	831.3	10.00	10.00	0.00
9,061.4	89.22	89.86	8,722.1	342.0	828.1	838.8	0.00	0.00	0.00
FTP/LP: 2080' FSL & 100' FWL (Sec 36)									
9,100.0	89.22	89.86	8,722.6	342.1	866.7	877.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Omaha 36-31 W0LI Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3244.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3244.0usft (Original Well Elev)
Site:	Omaha 36-31 W0LI Fed Com 1H	North Reference:	Grid
Well:	Sec 35, T20S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2080' FSL & 100' FEL (Sec 31)		
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)
9,200.0	89.22	89.86	8,724.0	342.3	966.7	977.3	0.00	0.00	0.00
9,300.0	89.22	89.86	8,725.3	342.6	1,066.7	1,077.2	0.00	0.00	0.00
9,400.0	89.22	89.86	8,726.7	342.8	1,166.7	1,177.2	0.00	0.00	0.00
9,500.0	89.22	89.86	8,728.0	343.0	1,266.7	1,277.1	0.00	0.00	0.00
9,600.0	89.22	89.86	8,729.4	343.3	1,366.6	1,377.1	0.00	0.00	0.00
9,700.0	89.22	89.86	8,730.7	343.5	1,466.6	1,477.0	0.00	0.00	0.00
9,800.0	89.22	89.86	8,732.1	343.8	1,566.6	1,577.0	0.00	0.00	0.00
9,900.0	89.22	89.86	8,733.5	344.0	1,666.6	1,676.9	0.00	0.00	0.00
10,000.0	89.22	89.86	8,734.8	344.2	1,766.6	1,776.8	0.00	0.00	0.00
10,100.0	89.22	89.86	8,736.2	344.5	1,866.6	1,876.8	0.00	0.00	0.00
10,200.0	89.22	89.86	8,737.5	344.7	1,966.6	1,976.7	0.00	0.00	0.00
10,300.0	89.22	89.86	8,738.9	345.0	2,066.6	2,076.7	0.00	0.00	0.00
10,400.0	89.22	89.86	8,740.2	345.2	2,166.6	2,176.6	0.00	0.00	0.00
10,500.0	89.22	89.86	8,741.6	345.5	2,266.6	2,276.6	0.00	0.00	0.00
10,600.0	89.22	89.86	8,742.9	345.7	2,366.5	2,376.5	0.00	0.00	0.00
10,700.0	89.22	89.86	8,744.3	345.9	2,466.5	2,476.5	0.00	0.00	0.00
10,800.0	89.22	89.86	8,745.6	346.2	2,566.5	2,576.4	0.00	0.00	0.00
10,900.0	89.22	89.86	8,747.0	346.4	2,666.5	2,676.4	0.00	0.00	0.00
11,000.0	89.22	89.86	8,748.3	346.7	2,766.5	2,776.3	0.00	0.00	0.00
11,100.0	89.22	89.86	8,749.7	346.9	2,866.5	2,876.2	0.00	0.00	0.00
11,200.0	89.22	89.86	8,751.0	347.1	2,966.5	2,976.2	0.00	0.00	0.00
11,300.0	89.22	89.86	8,752.4	347.4	3,066.5	3,076.1	0.00	0.00	0.00
11,400.0	89.22	89.86	8,753.8	347.6	3,166.5	3,176.1	0.00	0.00	0.00
11,500.0	89.22	89.86	8,755.1	347.9	3,266.5	3,276.0	0.00	0.00	0.00
11,600.0	89.22	89.86	8,756.5	348.1	3,366.5	3,376.0	0.00	0.00	0.00
11,700.0	89.22	89.86	8,757.8	348.4	3,466.4	3,475.9	0.00	0.00	0.00
11,800.0	89.22	89.86	8,759.2	348.6	3,566.4	3,575.9	0.00	0.00	0.00
11,900.0	89.22	89.86	8,760.5	348.8	3,666.4	3,675.8	0.00	0.00	0.00
12,000.0	89.22	89.86	8,761.9	349.1	3,766.4	3,775.8	0.00	0.00	0.00
12,100.0	89.22	89.86	8,763.2	349.3	3,866.4	3,875.7	0.00	0.00	0.00
12,200.0	89.22	89.86	8,764.6	349.6	3,966.4	3,975.7	0.00	0.00	0.00
12,300.0	89.22	89.86	8,765.9	349.8	4,066.4	4,075.6	0.00	0.00	0.00
12,400.0	89.22	89.86	8,767.3	350.0	4,166.4	4,175.5	0.00	0.00	0.00
12,500.0	89.22	89.86	8,768.6	350.3	4,266.4	4,275.5	0.00	0.00	0.00
12,600.0	89.22	89.86	8,770.0	350.5	4,366.4	4,375.4	0.00	0.00	0.00
12,700.0	89.22	89.86	8,771.3	350.8	4,466.3	4,475.4	0.00	0.00	0.00
12,800.0	89.22	89.86	8,772.7	351.0	4,566.3	4,575.3	0.00	0.00	0.00
12,900.0	89.22	89.86	8,774.1	351.3	4,666.3	4,675.3	0.00	0.00	0.00
13,000.0	89.22	89.86	8,775.4	351.5	4,766.3	4,775.2	0.00	0.00	0.00
13,100.0	89.22	89.86	8,776.8	351.7	4,866.3	4,875.2	0.00	0.00	0.00
13,200.0	89.22	89.86	8,778.1	352.0	4,966.3	4,975.1	0.00	0.00	0.00
13,300.0	89.22	89.86	8,779.5	352.2	5,066.3	5,075.1	0.00	0.00	0.00
13,400.0	89.22	89.86	8,780.8	352.5	5,166.3	5,175.0	0.00	0.00	0.00
13,500.0	89.22	89.86	8,782.2	352.7	5,266.3	5,274.9	0.00	0.00	0.00
13,600.0	89.22	89.86	8,783.5	352.9	5,366.3	5,374.9	0.00	0.00	0.00
13,700.0	89.22	89.86	8,784.9	353.2	5,466.3	5,474.8	0.00	0.00	0.00
13,800.0	89.22	89.86	8,786.2	353.4	5,566.2	5,574.8	0.00	0.00	0.00
13,900.0	89.22	89.86	8,787.6	353.7	5,666.2	5,674.7	0.00	0.00	0.00
14,000.0	89.22	89.86	8,788.9	353.9	5,766.2	5,774.7	0.00	0.00	0.00
14,100.0	89.22	89.86	8,790.3	354.1	5,866.2	5,874.6	0.00	0.00	0.00
14,200.0	89.22	89.86	8,791.6	354.4	5,966.2	5,974.6	0.00	0.00	0.00
14,247.9	89.22	89.86	8,792.3	354.5	6,014.1	6,022.4	0.00	0.00	0.00
PPP2: 2080' FSL & 0' FWL (Sec 31)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Omaha 36-31 W0LI Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3244.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3244.0usft (Original Well Elev)
Site:	Omaha 36-31 W0LI Fed Com 1H	North Reference:	Grid
Well:	Sec 35, T20S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2080' FSL & 100' FEL (Sec 31)		
Design:	Design #1		

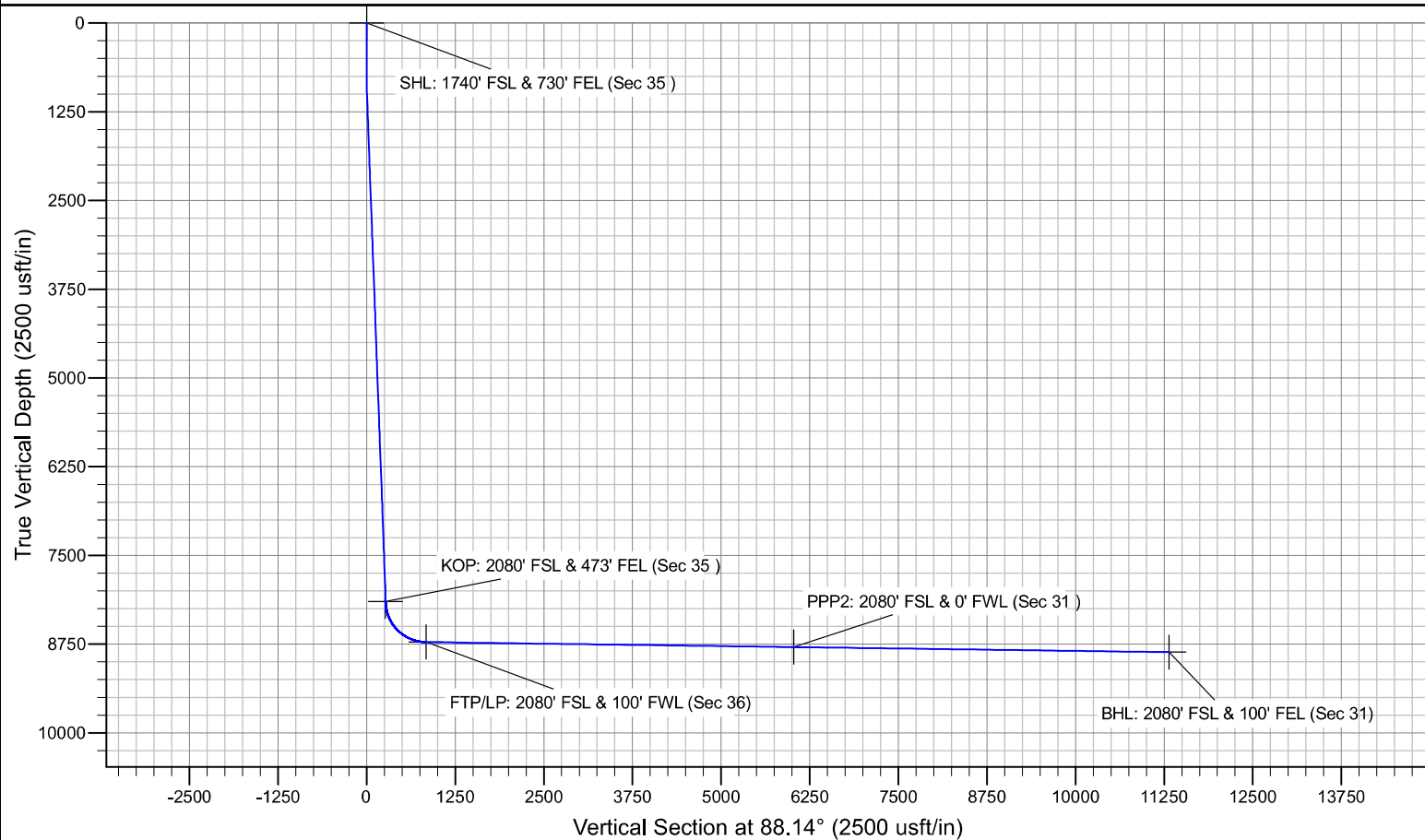
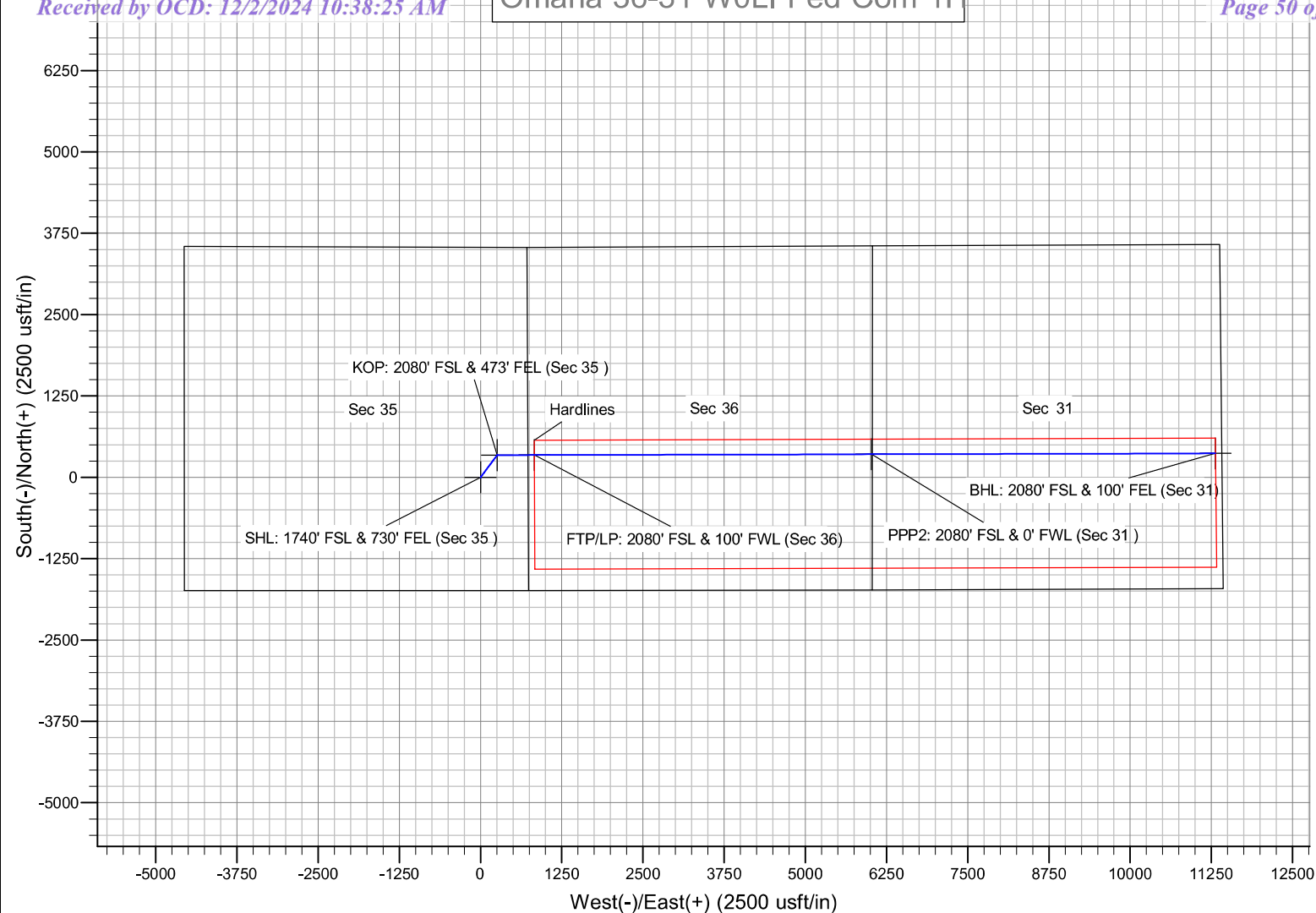
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,300.0	89.22	89.86	8,793.0	354.6	6,066.2	6,074.5	0.00	0.00	0.00
14,400.0	89.22	89.86	8,794.4	354.9	6,166.2	6,174.5	0.00	0.00	0.00
14,500.0	89.22	89.86	8,795.7	355.1	6,266.2	6,274.4	0.00	0.00	0.00
14,600.0	89.22	89.86	8,797.1	355.4	6,366.2	6,374.3	0.00	0.00	0.00
14,700.0	89.22	89.86	8,798.4	355.6	6,466.2	6,474.3	0.00	0.00	0.00
14,800.0	89.22	89.86	8,799.8	355.8	6,566.2	6,574.2	0.00	0.00	0.00
14,900.0	89.22	89.86	8,801.1	356.1	6,666.1	6,674.2	0.00	0.00	0.00
15,000.0	89.22	89.86	8,802.5	356.3	6,766.1	6,774.1	0.00	0.00	0.00
15,100.0	89.22	89.86	8,803.8	356.6	6,866.1	6,874.1	0.00	0.00	0.00
15,200.0	89.22	89.86	8,805.2	356.8	6,966.1	6,974.0	0.00	0.00	0.00
15,300.0	89.22	89.86	8,806.5	357.0	7,066.1	7,074.0	0.00	0.00	0.00
15,400.0	89.22	89.86	8,807.9	357.3	7,166.1	7,173.9	0.00	0.00	0.00
15,500.0	89.22	89.86	8,809.2	357.5	7,266.1	7,273.9	0.00	0.00	0.00
15,600.0	89.22	89.86	8,810.6	357.8	7,366.1	7,373.8	0.00	0.00	0.00
15,700.0	89.22	89.86	8,811.9	358.0	7,466.1	7,473.8	0.00	0.00	0.00
15,800.0	89.22	89.86	8,813.3	358.3	7,566.1	7,573.7	0.00	0.00	0.00
15,900.0	89.22	89.86	8,814.7	358.5	7,666.0	7,673.6	0.00	0.00	0.00
16,000.0	89.22	89.86	8,816.0	358.7	7,766.0	7,773.6	0.00	0.00	0.00
16,100.0	89.22	89.86	8,817.4	359.0	7,866.0	7,873.5	0.00	0.00	0.00
16,200.0	89.22	89.86	8,818.7	359.2	7,966.0	7,973.5	0.00	0.00	0.00
16,300.0	89.22	89.86	8,820.1	359.5	8,066.0	8,073.4	0.00	0.00	0.00
16,400.0	89.22	89.86	8,821.4	359.7	8,166.0	8,173.4	0.00	0.00	0.00
16,500.0	89.22	89.86	8,822.8	359.9	8,266.0	8,273.3	0.00	0.00	0.00
16,600.0	89.22	89.86	8,824.1	360.2	8,366.0	8,373.3	0.00	0.00	0.00
16,700.0	89.22	89.86	8,825.5	360.4	8,466.0	8,473.2	0.00	0.00	0.00
16,800.0	89.22	89.86	8,826.8	360.7	8,566.0	8,573.2	0.00	0.00	0.00
16,900.0	89.22	89.86	8,828.2	360.9	8,666.0	8,673.1	0.00	0.00	0.00
17,000.0	89.22	89.86	8,829.5	361.2	8,765.9	8,773.0	0.00	0.00	0.00
17,100.0	89.22	89.86	8,830.9	361.4	8,865.9	8,873.0	0.00	0.00	0.00
17,200.0	89.22	89.86	8,832.2	361.6	8,965.9	8,972.9	0.00	0.00	0.00
17,300.0	89.22	89.86	8,833.6	361.9	9,065.9	9,072.9	0.00	0.00	0.00
17,400.0	89.22	89.86	8,835.0	362.1	9,165.9	9,172.8	0.00	0.00	0.00
17,500.0	89.22	89.86	8,836.3	362.4	9,265.9	9,272.8	0.00	0.00	0.00
17,600.0	89.22	89.86	8,837.7	362.6	9,365.9	9,372.7	0.00	0.00	0.00
17,700.0	89.22	89.86	8,839.0	362.8	9,465.9	9,472.7	0.00	0.00	0.00
17,800.0	89.22	89.86	8,840.4	363.1	9,565.9	9,572.6	0.00	0.00	0.00
17,900.0	89.22	89.86	8,841.7	363.3	9,665.9	9,672.6	0.00	0.00	0.00
18,000.0	89.22	89.86	8,843.1	363.6	9,765.8	9,772.5	0.00	0.00	0.00
18,100.0	89.22	89.86	8,844.4	363.8	9,865.8	9,872.4	0.00	0.00	0.00
18,200.0	89.22	89.86	8,845.8	364.0	9,965.8	9,972.4	0.00	0.00	0.00
18,300.0	89.22	89.86	8,847.1	364.3	10,065.8	10,072.3	0.00	0.00	0.00
18,400.0	89.22	89.86	8,848.5	364.5	10,165.8	10,172.3	0.00	0.00	0.00
18,500.0	89.22	89.86	8,849.8	364.8	10,265.8	10,272.2	0.00	0.00	0.00
18,600.0	89.22	89.86	8,851.2	365.0	10,365.8	10,372.2	0.00	0.00	0.00
18,700.0	89.22	89.86	8,852.6	365.3	10,465.8	10,472.1	0.00	0.00	0.00
18,800.0	89.22	89.86	8,853.9	365.5	10,565.8	10,572.1	0.00	0.00	0.00
18,900.0	89.22	89.86	8,855.3	365.7	10,665.8	10,672.0	0.00	0.00	0.00
19,000.0	89.22	89.86	8,856.6	366.0	10,765.8	10,772.0	0.00	0.00	0.00
19,100.0	89.22	89.86	8,858.0	366.2	10,865.7	10,871.9	0.00	0.00	0.00
19,200.0	89.22	89.86	8,859.3	366.5	10,965.7	10,971.9	0.00	0.00	0.00
19,300.0	89.22	89.86	8,860.7	366.7	11,065.7	11,071.8	0.00	0.00	0.00
19,400.0	89.22	89.86	8,862.0	366.9	11,165.7	11,171.7	0.00	0.00	0.00
19,500.0	89.22	89.86	8,863.4	367.2	11,265.7	11,271.7	0.00	0.00	0.00
19,546.0	89.22	89.86	8,864.0	367.3	11,311.7	11,317.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Omaha 36-31 W0LI Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3244.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3244.0usft (Original Well Elev)
Site:	Omaha 36-31 W0LI Fed Com 1H	North Reference:	Grid
Well:	Sec 35, T20S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2080' FSL & 100' FEL (Sec 31)		
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)
BHL: 2080' FSL & 100' FEL (Sec 31)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL: 1740' FSL & 730' FEL (Sec 31) - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	555,594.10	568,331.90	32.5273566	-104.2457462
KOP: 2080' FSL & 47' FEL (Sec 31) - plan hits target center - Point	0.00	0.00	8,149.0	340.6	255.3	555,934.70	568,587.20	32.5282922	-104.2449170
FTP/LP: 2080' FSL & 100' FEL (Sec 31) - plan hits target center - Point	0.00	0.00	8,722.1	342.0	828.1	555,936.09	569,160.00	32.5282947	-104.2430584
PPP2: 2080' FSL & 0' FEL (Sec 31) - plan hits target center - Point	0.00	0.00	8,792.3	354.5	6,014.1	555,948.61	574,346.00	32.5283159	-104.2262315
BHL: 2080' FSL & 100' FEL (Sec 31) - plan hits target center - Point	0.00	0.00	8,864.0	367.3	11,311.7	555,961.40	579,643.60	32.5283353	-104.2090425



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	OMAHA 36/31 W0LI FED COM 1H
APD ID:	10400088005
LOCATION:	Section 36, T20S, R27E. NMP.
COUNTY:	Eddy County, New Mexico ▼

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **20** inch surface casing shall be set at approximately **450** ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead

- cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **13-3/8** inch 1st intermediate casing shall be set in a competent bed at approximately **1,085 ft.** The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:
- **Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef.**
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following: **(Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the Capitan interval)**
 - Switch to freshwater mud to protect the Capitan Reef and use freshwater mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
3. The **9-5/8** inch 2nd intermediate casing shall be set in a competent bed at approximately **2,400 ft.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
- Option 1 (Single Stage):** Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, and Capitan Reef.
- Option 2 (Two-Stage):** The operator has proposed utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. **Second stage above DV tool:** Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, and Capitan Reef.
4. Operator has proposed to set 7" production casing at approximately **8,100 ft.** (8,047 ft. TVD). The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, and Capitan Reef.
5. The minimum required fill of cement behind the **4-1/2** inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) 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 43 CFR 3172 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](mailto: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 07/02/2024

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

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

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

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

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

4. **Mud Program**

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

5. **Metallurgy**

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

6. **Communications**

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

7. **Well Testing**

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

8. **Emergency Phone Numbers**

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

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

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

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** OMAHA 36/31 WOLI FED COM**Well Number:** 1H**Disposal location description:** City of Carlsbad Water Treatment facility**Waste type:** GARBAGE**Waste content description:** Garbage & trash from all drilling & completion procedures**Amount of waste:** 1500 pounds**Waste disposal frequency :** One Time Only**Safe containment description:** Enclosed trash trailers**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY**Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** County of Eddy waste management

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?** Y

Description of cuttings location Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.) and taken to an NMOCD approved disposal facility listed below. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at the said facilities. NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

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:** OMAHA 36/31 W0LI FED COM**Well Number:** 1H

Section 8 - Ancillary

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

Section 9 - Well Site

Well Site Layout Diagram:

Omaha_36_31_W0LI_Fed_Com_1H_WellSiteLayout_20241029155134.pdf

Comments: NONE

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** Omaha 36/31 MP & LI**Multiple Well Pad Number:** 4**Recontouring****Drainage/Erosion control construction:** None required**Drainage/Erosion control reclamation:** None required

Well pad proposed disturbance (acres): 6.7	Well pad interim reclamation (acres): 0.07	Well pad long term disturbance (acres): 6.63
Road proposed disturbance (acres): 0.101	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 6.801	Total interim reclamation: 0.07	Total long term disturbance: 6.63

Disturbance Comments: The length of the pipeline is unknown. A sundry notice will be filed for approval of said pipeline.**Reconstruction method:** Remove caliche, redistribute topsoil over reclaimed area & reseed.**Topsoil redistribution:** Use backhoe/loader to spread material.**Soil treatment:** None**Existing Vegetation at the well pad:** Various brush & grasses.**Existing Vegetation at the well pad**

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/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 407521

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 407521
	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.	12/2/2024
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/2/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/17/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/17/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/17/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/17/2024
ward.rikala	This well is within the Capitan Reef. The 1st intermediate string shall be sat and cemented back to surface immediately above the top of the Capitan Reef. The 2nd intermediate string shall be sat and cemented back to surface immediately below the base of the Capitan Reef.	12/17/2024