

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.  
NMNM0359292

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.  
SALADO DRAW 10 FED  
574H9. API Well No.  
30-025-5459310. Field and Pool, or Exploratory  
BRADLEY/Bone Spring11. Sec., T. R. M. or Blk. and Survey or Area  
SEC 15/T26S/R33E/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) 393-5905

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

At surface NENW / 340 FNL / 2270 FWL / LAT 32.0498015 / LONG -103.5614015

At proposed prod. zone NENW / 100 FSL / 2090 FWL / LAT 32.0649753 / LONG -103.5619721

14. Distance in miles and direction from nearest town or post office\*  
22 miles12. County or Parish  
LEA13. State  
NM15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)  
350 feet

16. No of acres in lease

17. Spacing Unit dedicated to this well  
160.018. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.  
20 feet19. Proposed Depth  
11381 feet / 16816 feet20. BLM/BIA Bond No. in file  
FED: NM 169321. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3298 feet22. Approximate date work will start\*  
10/08/202623. Estimated duration  
30 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  
06/19/2023Title  
RegulatoryApproved by (Signature)  
(Electronic Submission)Name (Printed/Typed)  
CODY LAYTON / Ph: (575) 234-5959Date  
02/26/2025Title  
Assistant Field Manager Lands & MineralsOffice  
Carlsbad Field Office

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

Conditions of approval, if any, are attached.

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

(Continued on page 2)

\*(Instructions on page 2)



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

API Number <b>30-025-54593</b>	Pool Code <b>7280</b>	Pool Name <b>BRADLEY; BONE SPRING</b>
Property Code <b>38525</b>	Property Name <b>SALADO DRAW 10 FED COM</b>	Well Number <b>574H</b>
OGRID No. <b>14744</b>	Operator Name <b>MEWBOURNE OIL COMPANY</b>	Ground Level Elevation <b>3298</b>
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

## Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	15	26S	33E		340 FNL	2270 FWL	32.0498015	-103.5614015	LEA

## Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	10	26S	33E		100 FNL	2090 FWL	32.0649753	-103.5619721	LEA

Dedicated Acres <b>160</b>	Infill or Defining Well <b>DEFINING</b>	Defining Well API	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>C</b>
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

## Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	15	26S	33E		473 FNL	2090 FWL	32.0494363	-103.5619806	LEA

## First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	10	26S	33E		100 FSL	2090 FWL	32.0510113	-103.5619798	LEA

## Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	10	26S	33E		100 FNL	2090 FWL	32.0649753	-103.5619721	LEA

Unitized Area or Area of Uniform Interest <b>N/A</b>	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: <b>3298</b>
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## OPERATOR CERTIFICATIONS

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

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

Andrew W Taylor 2/28/25  
Signature Date

**ANDY TAYLOR**

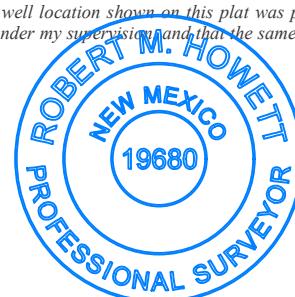
Printed Name

ATAYLOR@MEWBOURNE.COM

Email Address

## SURVEYOR CERTIFICATIONS

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



Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number

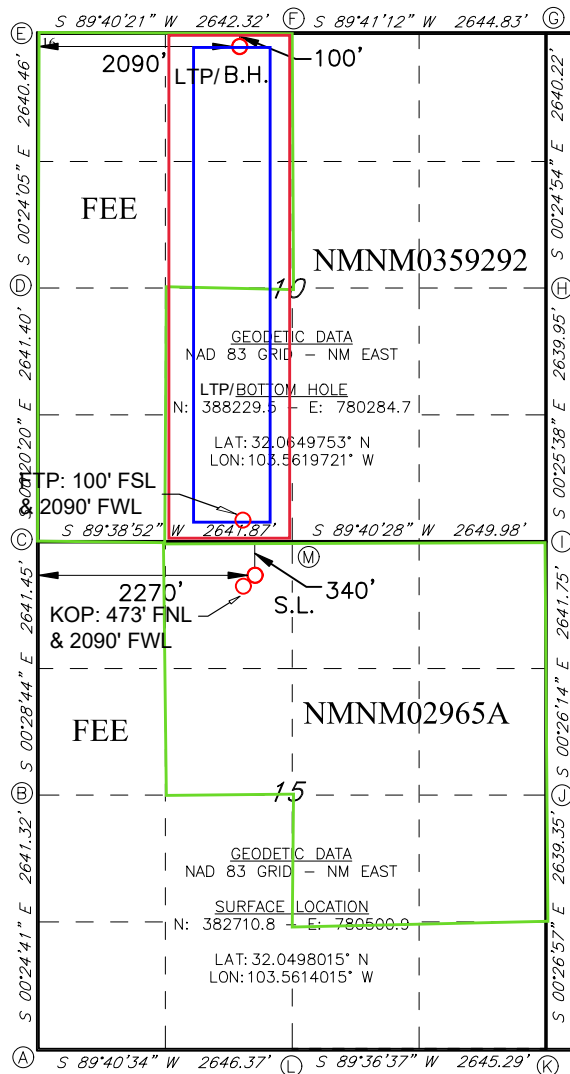
Date of Survey

**19680**

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

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

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



**CORNER DATA**  
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1913"  
N: 377755.1 - E: 778269.6

B: FOUND BRASS CAP "1913"  
N: 380395.9 - E: 778250.6

C: CALCULATED CORNER  
N: 383036.8 - E: 778228.5

D: FOUND BRASS CAP "1913"  
N: 385677.6 - E: 778212.9

E: FOUND BRASS CAP "1913"  
N: 388317.6 - E: 778194.4

F: FOUND BRASS CAP "1913"  
N: 388332.7 - E: 780836.2

G: FOUND BRASS CAP "1913"  
N: 388347.1 - E: 783480.5

H: FOUND BRASS CAP "1913"  
N: 385707.5 - E: 783499.6

I: FOUND BRASS CAP "1913"  
N: 383068.1 - E: 783519.3

J: FOUND BRASS CAP "1913"  
N: 380426.9 - E: 783539.5

K: FOUND BRASS CAP "1913"  
N: 377788.1 - E: 783560.2

L: FOUND BRASS CAP "1913"  
N: 377770.1 - E: 780915.4

M: FOUND BRASS CAP "1913"  
N: 383053.0 - E: 780869.9

**17 OPERATOR CERTIFICATION**

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

Signature: Andrew W Taylor Date: 5/11/23  
Printed Name: ANDY TAYLOR  
E-mail Address: ATAYLOR@MEWBOURNE.COM

**18 SURVEYOR CERTIFICATION**

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

**4/20/23**

Date of Survey

Signature and Seal of Professional Surveyor

**19680**

Certificate Number

Job No: LS22111275

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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:** 3/5/25

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

If Other, please describe: \_\_\_\_\_

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SALADO DRAW 10 FED 574H		C 15 26S 33E	340' FNL x 2270' FWL	1500	3000	3000
				Y1-300 Y2-200 Y3-100	Y1-1000 Y2-600 Y3-300	Y1-600 Y2-400 Y3-200

**IV. Central Delivery Point Name:** SALADO DRAW 10 FED 574H [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
SALADO DRAW 10 FED 574H		4/5/25	5/5/25	6/5/25	6/20/25	6/25/25

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

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

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



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

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

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

**IX. Anticipated Natural Gas Production:**

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

**X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Section 4 - Notices**

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

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

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

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

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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:	3/5/25
Phone:	575-393-5905
<b>OIL CONSERVATION DIVISION</b> (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.





# Drilling Plan Data Report

02/26/2025

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

APD ID: 10400092823

Submission Date: 06/19/2023

Highlighted data  
reflects the most  
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 10 FED

Well Number: 574H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15109904	UNKNOWN	3290	28	28	OTHER : Topsoil	NONE	N
15109924	RUSTLER	2385	905	905	ANHYDRITE, DOLOMITE	USEABLE WATER	N
15109925	TOP SALT	2023	1267	1267	SALT	NONE	N
15109916	BASE OF SALT	-1422	4712	4712	SALT	NONE	N
15109918	LAMAR	-1660	4950	4950	LIMESTONE	NATURAL GAS, OIL	N
15109926	BELL CANYON	-1700	4990	4990	SANDSTONE	NATURAL GAS, OIL	N
15109927	CHERRY CANYON	-2680	5970	5970	SANDSTONE	NATURAL GAS, OIL	N
15109928	MANZANITA	-2930	6220	6220	LIMESTONE	NATURAL GAS, OIL	N
15109931	BRUSHY CANYON	-4300	7590	7590	SANDSTONE	NATURAL GAS, OIL	N
15109912	BONE SPRING	-5816	9106	9106	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
15109913	BONE SPRING 1ST	-6776	10066	10066	SANDSTONE	NATURAL GAS, OIL	N
15109930	BONE SPRING 2ND	-7320	10610	10610	SANDSTONE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 16815

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

**Requesting Variance?** YES

**Variance request:** A variance is requested for the use of a variable choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead.

**Operator Name:** MEWBOURNE OIL COMPANY**Well Name:** SALADO DRAW 10 FED**Well Number:** 574H

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

**Choke Diagram Attachment:**

Salado\_Draw\_10\_Fed\_574H\_5M\_BOPE\_Choke\_Diagram\_20230615082404.pdf

Salado\_Draw\_10\_Fed\_574H\_Flex\_Line\_Specs\_API\_16C\_20230615082404.pdf

Salado\_Draw\_10\_Fed\_574H\_Flex\_Line\_Specs\_20230615082405.pdf

**BOP Diagram Attachment:**

Salado\_Draw\_10\_Fed\_574H\_5M\_BOPE\_Schematic\_20230615082413.pdf

Salado\_Draw\_10\_Fed\_574H\_5M\_Mutli\_Bowl\_WH\_20230615082413.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	1120	0	1120	3298	2178	1120	H-40	48	ST&C	1.5	3.38	DRY	5.99	DRY	10.06
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3453	0	3453		-155	3453	J-55	36	LT&C	1.13	1.96	DRY	2.5	DRY	3.11
3	INTERMEDIATE	12.25	9.625	NEW	API	N	3453	4393	3453	4393	-163	-1095	940	J-55	40	LT&C	1.13	1.73	DRY	9.14	DRY	11.08
4	INTERMEDIATE	12.25	9.625	NEW	API	N	4393	4875	4393	4875	-1103	-1577	482	N-80	40	LT&C	1.22	2.27	DRY	38.24	DRY	47.53
5	PRODUCTION	8.75	7.0	NEW	API	N	0	10770	0	10767		-7469	10770	P-110	26	LT&C	1.15	1.83	DRY	2.47	DRY	2.96
6	LINER	6.125	4.5	NEW	API	N	10085	16330	10049	10876	-6759	-7578	6245	P-110	13.5	LT&C	1.64	1.9	DRY	4.01	DRY	5.01

**Casing Attachments**

**Operator Name:** MEWBOURNE OIL COMPANY**Well Name:** SALADO DRAW 10 FED**Well Number:** 574H**Casing Attachments**

---

**Casing ID:** 1      **String**      SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Salado\_Draw\_10\_Fed\_574H\_csg\_assumptions\_20230615083414.pdf

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**Casing ID:** 2      **String**      INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Salado\_Draw\_10\_Fed\_574H\_csg\_assumptions\_20230615083623.pdf

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**Casing ID:** 3      **String**      INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Salado\_Draw\_10\_Fed\_574H\_csg\_assumptions\_20230615083651.pdf

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**Operator Name:** MEWBOURNE OIL COMPANY**Well Name:** SALADO DRAW 10 FED**Well Number:** 574H**Casing Attachments**

---

**Casing ID:** 4      **String**      INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Salado\_Draw\_10\_Fed\_574H\_csg\_assumptions\_20230615083710.pdf

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**Casing ID:** 5      **String**      PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Salado\_Draw\_10\_Fed\_574H\_csg\_assumptions\_20230615083533.pdf

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**Casing ID:** 6      **String**      LINER**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Salado\_Draw\_10\_Fed\_574H\_csg\_assumptions\_20230615083736.pdf

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**Section 4 - Cement**

**Operator Name:** MEWBOURNE OIL COMPANY**Well Name:** SALADO DRAW 10 FED**Well Number:** 574H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	929	610	2.12	12.5	1300	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		929	1120	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	4190	770	2.12	12.5	1640	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4190	4875	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	6200	4675	5623	100	2.12	12.5	220	50	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		5623	6200	100	1.34	14.8	134	50	Class C	Retarder
PRODUCTION	Lead	6200	6200	8720	580	2.12	12.5	580	50	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		8720	10770	400	1.18	15.6	472	50	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		10570	16815	400	1.85	13.5	740	25	Class H	Salt, Gel, Fluid Loss, retarder, dispersant, defoamer, anti-setting agent

### Section 5 - Circulating Medium

**Mud System Type:** Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:****Describe what will be on location to control well or mitigate other conditions:** Lost circulation material, sweeps, mud scavengers**Describe the mud monitoring system utilized:** Pason/PVT/visual monitoring

### Circulating Medium Table



**Operator Name:** MEWBOURNE OIL COMPANY**Well Name:** SALADO DRAW 10 FED**Well Number:** 574H

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	1120	SPUD MUD	8.6	8.8							
1120	4875	SALT SATURATED	10	10							
4875	10770	WATER-BASED MUD	8.6	9.7							
10770	16815	OIL-BASED MUD	10	11							MW up to 12.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 11.0 ppg.

### Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP to surface

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

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

**Coring operation description for the well:**

None

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 6524

**Anticipated Surface Pressure:** 4014

**Anticipated Bottom Hole Temperature(F):** 206

**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**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SALADO DRAW 10 FED

**Well Number:** 574H

Salado\_Draw\_10\_Fed\_574H\_H2S\_Plan\_20230615084627.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Salado\_Draw\_10\_Fed\_574H\_Dir\_Plan\_20230615084648.pdf

Salado\_Draw\_10\_Fed\_574H\_Dir\_Plot\_20230615084649.pdf

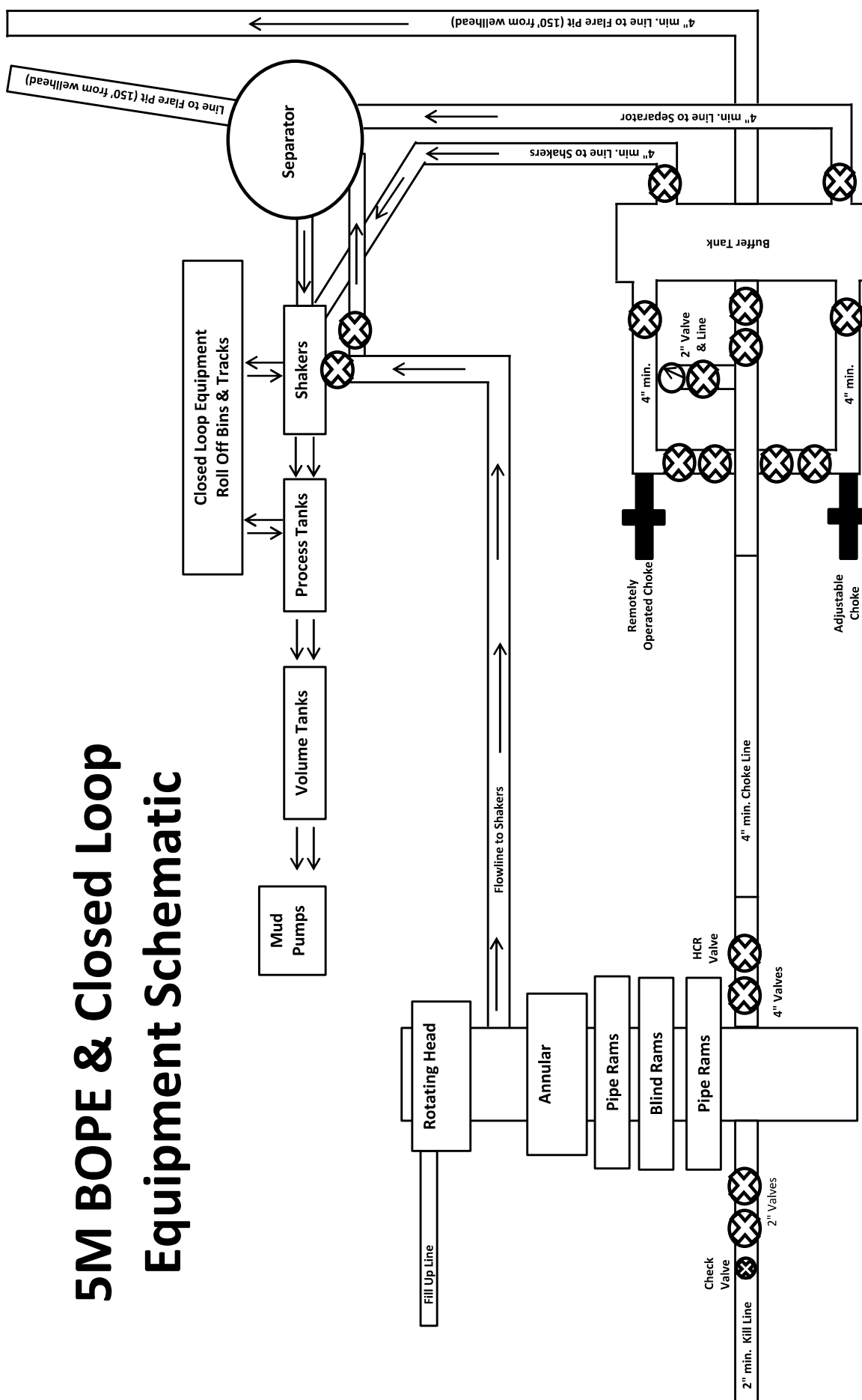
**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Salado\_Draw\_10\_Fed\_574H\_add\_info\_20230615084724.pdf

**Other Variance attachment:**

# 5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale



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

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

### 10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10
Invoice No.:	511956	Created By:	Moosa Naqvi
Product Description:	10KF3.035.0CK41/1610KFLGFXDxFLT L/E		
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

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

Quality: QUALITY  
Date : 8/20/2018  
Signature : *Moosa Naqvi*

Production: PRODUCTION  
Date : 8/20/2018  
Signature : *[Signature]*

Form PTC - 01 Rev.0 2





**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>

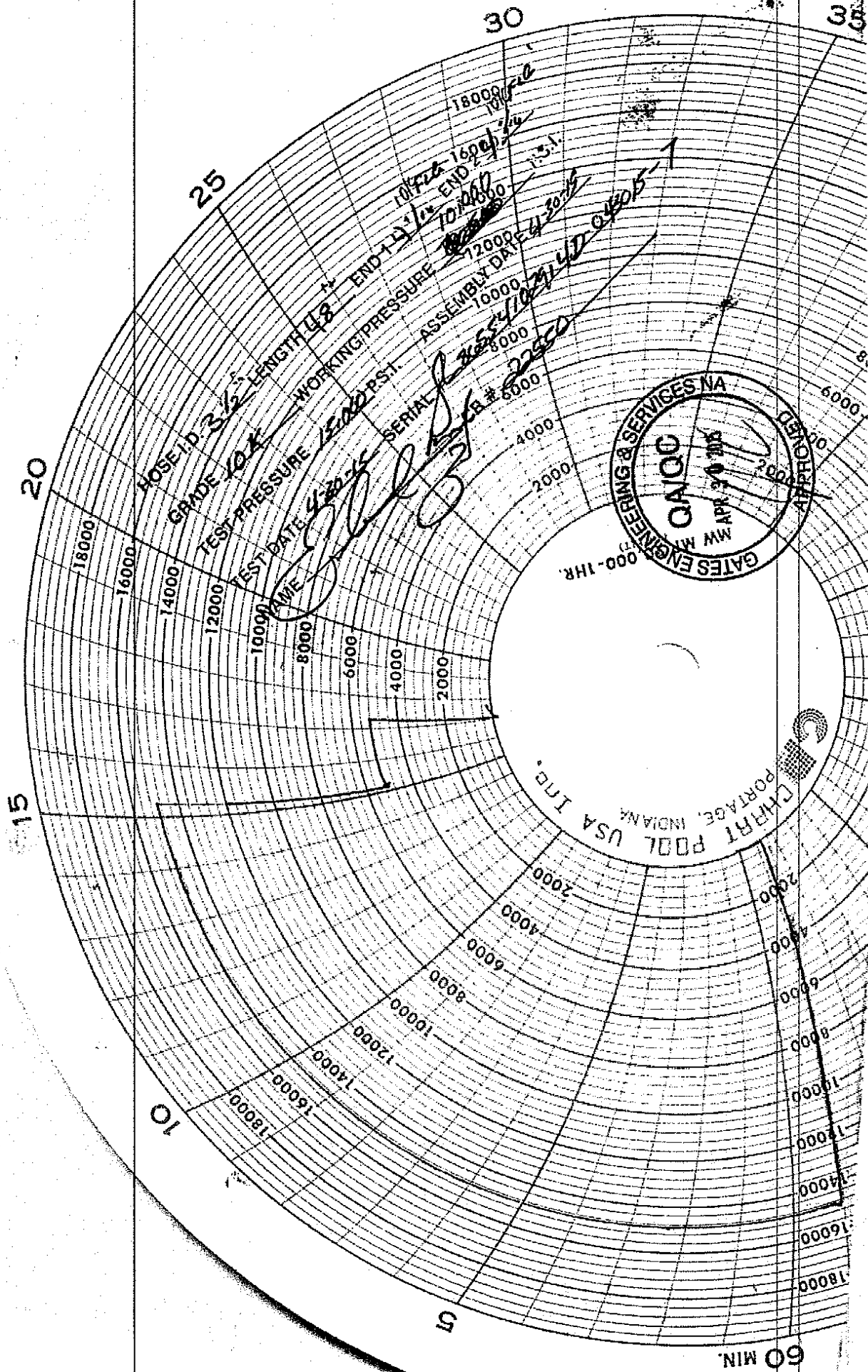
Production:  
 Date :  
 Signature :

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

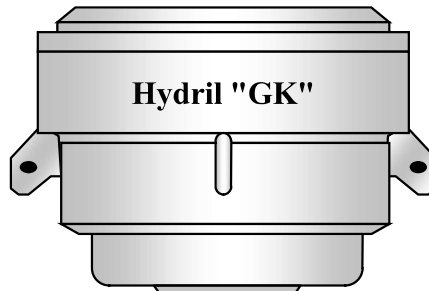
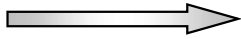
Form PTC - 01 Rev.02





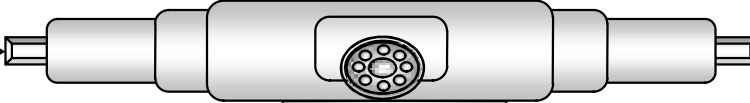


Hydril "GK"  
13 5/8" 5M

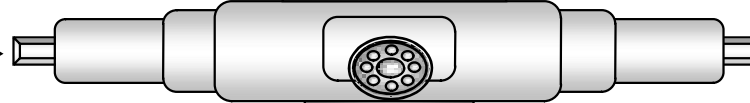


Hydril "GK"

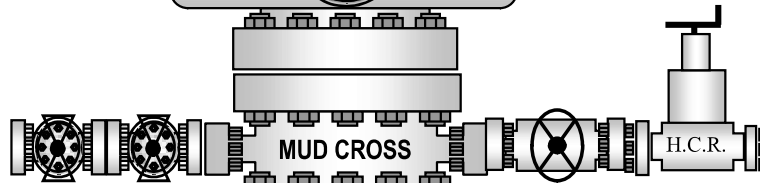
Cameron Type U  
13 5/8" 5M



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

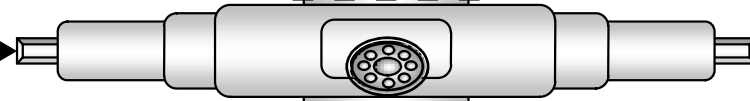


BLIND RAMS



MUD CROSS

H.C.R.



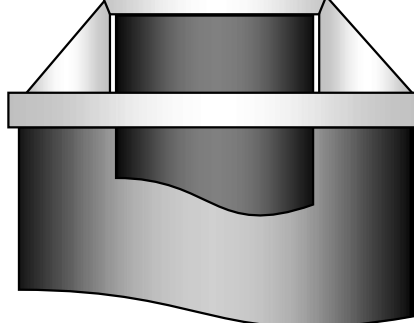
7" RAMS



13 5/8" 5M

13 5/8" 5M

13 5/8" 5M





# 13-5/8" MN-DS Wellhead System



C7585  
Rev. 02

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

*Cuffing Hanger 57" conductor cut-off*

**Mewbourne Oil Company, Salado Draw 10 Fed #574H****Sec 15, T26S, R33E****SHL: 340' FNL & 2270' FWL (Sec 15)****BHL: 100' FNL & 2090' FWL (Sec 10)****Casing Program**

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body Tension
				(lbs)			Collapse		Tension	
17.500	0'	1120'	13.375	48.0	H40	STC	1.50	3.38	5.99	10.06
12.250	0'	3453'	9.625	36.0	J55	LTC	1.13	1.96	2.50	3.11
12.250	3453'	4393'	9.625	40.0	J55	LTC	1.13	1.73	9.14	11.08
12.250	4393'	4875'	9.625	40.0	N80	LTC	1.22	2.27	38.24	47.53
8.750	0'	10770'	7.000	26.0	P110	LTC	1.15	1.83	2.47	2.96
6.125	10570'	16815'	4.500	13.5	P110	LTC	1.64	1.90	4.01	5.01
BLM Minimum Safety Factor							1.125	1.0	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 IILB.1.h. Must have table for contingency casing

				Y or N
Is casing new? If used, attach certification as required in Onshore Order #1				Y
Is casing API approved? If no, attach casing specification sheet.				Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.				N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).				Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?				Y
Is well located within Capitan Reef?				N
If yes, does production casing cement tie back a minimum of 50' above the Reef?				
Is well within the designated 4 string boundary.				N
Is well located in SOPA but not in R-111-P?				N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?				
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.				
Is an engineered weak point used to satisfy R-111-Q?				
If yes, at what depth is the weak point planned?				
Is well located in high Cave/Karst?				N
If yes, are there two strings cemented to surface?				
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?				
Is well located in critical Cave/Karst?				N
If yes, are there three strings cemented to surface?				
Formation	Est. Top		Formation	Est. Top
Rustler			Delaware (Lamar)	
Salt Top			Bell Canyon	
Salt Base			Cherry Canyon	
Yates			Manzanita Marker	
Seven Rivers			Basal Brushy Canyon	
Queen			Bone Spring	
Capitan			1st Bone Spring Sand	
Grayburg			2nd Bone Spring Sand	
San Andres			3rd Bone Spring Sand	
Glorieta			Abo	
Yeso			Wolfcamp	



**Mewbourne Oil Company, Salado Draw 10 Fed #574H****Sec 15, T26S, R33E****SHL: 340' FNL & 2270' FWL (Sec 15)****BHL: 100' FNL & 2090' FWL (Sec 10)****Casing Program**

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body Tension
				(lbs)			Collapse		Tension	
17.500	0'	1120'	13.375	48.0	H40	STC	1.50	3.38	5.99	10.06
12.250	0'	3453'	9.625	36.0	J55	LTC	1.13	1.96	2.50	3.11
12.250	3453'	4393'	9.625	40.0	J55	LTC	1.13	1.73	9.14	11.08
12.250	4393'	4875'	9.625	40.0	N80	LTC	1.22	2.27	38.24	47.53
8.750	0'	10770'	7.000	26.0	P110	LTC	1.15	1.83	2.47	2.96
6.125	10570'	16815'	4.500	13.5	P110	LTC	1.64	1.90	4.01	5.01
BLM Minimum Safety Factor							1.125	1.0	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 IILB.1.h. Must have table for contingency casing

				Y or N
Is casing new? If used, attach certification as required in Onshore Order #1				Y
Is casing API approved? If no, attach casing specification sheet.				Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.				N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).				Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?				Y
Is well located within Capitan Reef?				N
If yes, does production casing cement tie back a minimum of 50' above the Reef?				
Is well within the designated 4 string boundary.				N
Is well located in SOPA but not in R-111-P?				N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?				
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.				
Is an engineered weak point used to satisfy R-111-Q?				
If yes, at what depth is the weak point planned?				
Is well located in high Cave/Karst?				N
If yes, are there two strings cemented to surface?				
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?				
Is well located in critical Cave/Karst?				N
If yes, are there three strings cemented to surface?				
Formation	Est. Top		Formation	Est. Top
Rustler			Delaware (Lamar)	
Salt Top			Bell Canyon	
Salt Base			Cherry Canyon	
Yates			Manzanita Marker	
Seven Rivers			Basal Brushy Canyon	
Queen			Bone Spring	
Capitan			1st Bone Spring Sand	
Grayburg			2nd Bone Spring Sand	
San Andres			3rd Bone Spring Sand	
Glorieta			Abo	
Yeso			Wolfcamp	



**Mewbourne Oil Company, Salado Draw 10 Fed #574H**  
**Sec 15, T26S, R33E**  
**SHL: 340' FNL & 2270' FWL (Sec 15)**  
**BHL: 100' FNL & 2090' FWL (Sec 10)**

**Casing Program**

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body Tension
				(lbs)			Collapse		Tension	
17.500	0'	1120'	13.375	48.0	H40	STC	1.50	3.38	5.99	10.06
12.250	0'	3453'	9.625	36.0	J55	LTC	1.13	1.96	2.50	3.11
12.250	3453'	4393'	9.625	40.0	J55	LTC	1.13	1.73	9.14	11.08
12.250	4393'	4875'	9.625	40.0	N80	LTC	1.22	2.27	38.24	47.53
8.750	0'	10770'	7.000	26.0	P110	LTC	1.15	1.83	2.47	2.96
6.125	10570'	16815'	4.500	13.5	P110	LTC	1.64	1.90	4.01	5.01
BLM Minimum Safety Factor							1.125	1.0	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 IILB.1.h. Must have table for contingency casing

				Y or N
Is casing new? If used, attach certification as required in Onshore Order #1				Y
Is casing API approved? If no, attach casing specification sheet.				Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.				N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).				Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?				Y
Is well located within Capitan Reef?				N
If yes, does production casing cement tie back a minimum of 50' above the Reef?				
Is well within the designated 4 string boundary.				N
Is well located in SOPA but not in R-111-P?				N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?				
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.				
Is an engineered weak point used to satisfy R-111-Q?				
If yes, at what depth is the weak point planned?				
Is well located in high Cave/Karst?				N
If yes, are there two strings cemented to surface?				
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?				
Is well located in critical Cave/Karst?				N
If yes, are there three strings cemented to surface?				
Formation	Est. Top		Formation	Est. Top
Rustler			Delaware (Lamar)	
Salt Top			Bell Canyon	
Salt Base			Cherry Canyon	
Yates			Manzanita Marker	
Seven Rivers			Basal Brushy Canyon	
Queen			Bone Spring	
Capitan			1st Bone Spring Sand	
Grayburg			2nd Bone Spring Sand	
San Andres			3rd Bone Spring Sand	
Glorieta			Abo	
Yeso			Wolfcamp	

**Mewbourne Oil Company, Salado Draw 10 Fed #574H****Sec 15, T26S, R33E****SHL: 340' FNL & 2270' FWL (Sec 15)****BHL: 100' FNL & 2090' FWL (Sec 10)****Casing Program**

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body Tension
				(lbs)			Collapse		Tension	
17.500	0'	1120'	13.375	48.0	H40	STC	1.50	3.38	5.99	10.06
12.250	0'	3453'	9.625	36.0	J55	LTC	1.13	1.96	2.50	3.11
12.250	3453'	4393'	9.625	40.0	J55	LTC	1.13	1.73	9.14	11.08
12.250	4393'	4875'	9.625	40.0	N80	LTC	1.22	2.27	38.24	47.53
8.750	0'	10770'	7.000	26.0	P110	LTC	1.15	1.83	2.47	2.96
6.125	10570'	16815'	4.500	13.5	P110	LTC	1.64	1.90	4.01	5.01
BLM Minimum Safety Factor							1.125	1.0	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 IILB.1.h. Must have table for contingency casing

				Y or N
Is casing new? If used, attach certification as required in Onshore Order #1				Y
Is casing API approved? If no, attach casing specification sheet.				Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.				N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).				Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?				Y
Is well located within Capitan Reef?				N
If yes, does production casing cement tie back a minimum of 50' above the Reef?				
Is well within the designated 4 string boundary.				N
Is well located in SOPA but not in R-111-P?				N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?				
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.				
Is an engineered weak point used to satisfy R-111-Q?				
If yes, at what depth is the weak point planned?				
Is well located in high Cave/Karst?				N
If yes, are there two strings cemented to surface?				
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?				
Is well located in critical Cave/Karst?				N
If yes, are there three strings cemented to surface?				
Formation	Est. Top		Formation	Est. Top
Rustler			Delaware (Lamar)	
Salt Top			Bell Canyon	
Salt Base			Cherry Canyon	
Yates			Manzanita Marker	
Seven Rivers			Basal Brushy Canyon	
Queen			Bone Spring	
Capitan			1st Bone Spring Sand	
Grayburg			2nd Bone Spring Sand	
San Andres			3rd Bone Spring Sand	
Glorieta			Abo	
Yeso			Wolfcamp	

**Mewbourne Oil Company, Salado Draw 10 Fed #574H****Sec 15, T26S, R33E****SHL: 340' FNL & 2270' FWL (Sec 15)****BHL: 100' FNL & 2090' FWL (Sec 10)****Casing Program**

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body Tension
				(lbs)			Collapse		Tension	
17.500	0'	1120'	13.375	48.0	H40	STC	1.50	3.38	5.99	10.06
12.250	0'	3453'	9.625	36.0	J55	LTC	1.13	1.96	2.50	3.11
12.250	3453'	4393'	9.625	40.0	J55	LTC	1.13	1.73	9.14	11.08
12.250	4393'	4875'	9.625	40.0	N80	LTC	1.22	2.27	38.24	47.53
8.750	0'	10770'	7.000	26.0	P110	LTC	1.15	1.83	2.47	2.96
6.125	10570'	16815'	4.500	13.5	P110	LTC	1.64	1.90	4.01	5.01
BLM Minimum Safety Factor							1.125	1.0	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 IILB.1.h. Must have table for contingency casing

				Y or N
Is casing new? If used, attach certification as required in Onshore Order #1				Y
Is casing API approved? If no, attach casing specification sheet.				Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.				N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).				Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?				Y
Is well located within Capitan Reef?				N
If yes, does production casing cement tie back a minimum of 50' above the Reef?				
Is well within the designated 4 string boundary.				N
Is well located in SOPA but not in R-111-P?				N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?				
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.				
Is an engineered weak point used to satisfy R-111-Q?				
If yes, at what depth is the weak point planned?				
Is well located in high Cave/Karst?				N
If yes, are there two strings cemented to surface?				
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?				
Is well located in critical Cave/Karst?				N
If yes, are there three strings cemented to surface?				
Formation	Est. Top		Formation	Est. Top
Rustler			Delaware (Lamar)	
Salt Top			Bell Canyon	
Salt Base			Cherry Canyon	
Yates			Manzanita Marker	
Seven Rivers			Basal Brushy Canyon	
Queen			Bone Spring	
Capitan			1st Bone Spring Sand	
Grayburg			2nd Bone Spring Sand	
San Andres			3rd Bone Spring Sand	
Glorieta			Abo	
Yeso			Wolfcamp	

**Mewbourne Oil Company, Salado Draw 10 Fed #574H**  
**Sec 15, T26S, R33E**  
**SHL: 340' FNL & 2270' FWL (Sec 15)**  
**BHL: 100' FNL & 2090' FWL (Sec 10)**

**Casing Program**

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body Tension
				(lbs)			Collapse		Tension	
17.500	0'	1120'	13.375	48.0	H40	STC	1.50	3.38	5.99	10.06
12.250	0'	3453'	9.625	36.0	J55	LTC	1.13	1.96	2.50	3.11
12.250	3453'	4393'	9.625	40.0	J55	LTC	1.13	1.73	9.14	11.08
12.250	4393'	4875'	9.625	40.0	N80	LTC	1.22	2.27	38.24	47.53
8.750	0'	10770'	7.000	26.0	P110	LTC	1.15	1.83	2.47	2.96
6.125	10570'	16815'	4.500	13.5	P110	LTC	1.64	1.90	4.01	5.01
BLM Minimum Safety Factor							1.125	1.0	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 IILB.1.h. Must have table for contingency casing

				Y or N
Is casing new? If used, attach certification as required in Onshore Order #1				Y
Is casing API approved? If no, attach casing specification sheet.				Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.				N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).				Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?				Y
Is well located within Capitan Reef?				N
If yes, does production casing cement tie back a minimum of 50' above the Reef?				
Is well within the designated 4 string boundary.				N
Is well located in SOPA but not in R-111-P?				N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?				
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.				
Is an engineered weak point used to satisfy R-111-Q?				
If yes, at what depth is the weak point planned?				
Is well located in high Cave/Karst?				N
If yes, are there two strings cemented to surface?				
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?				
Is well located in critical Cave/Karst?				N
If yes, are there three strings cemented to surface?				
Formation	Est. Top		Formation	Est. Top
Rustler			Delaware (Lamar)	
Salt Top			Bell Canyon	
Salt Base			Cherry Canyon	
Yates			Manzanita Marker	
Seven Rivers			Basal Brushy Canyon	
Queen			Bone Spring	
Capitan			1st Bone Spring Sand	
Grayburg			2nd Bone Spring Sand	
San Andres			3rd Bone Spring Sand	
Glorieta			Abo	
Yeso			Wolfcamp	

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 H<sub>2</sub>S were found. MOC will have on location and working all H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S 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.

# **Mewbourne Oil Company**

**Lea County, New Mexico NAD 83**

**Salado Draw 10 Fed #574H**

**Sec 15, T26S, R33E**

**SHL: 340' FNL & 2270' FWL (Sec 15)**

**BHL: 100' FNL & 2090' FWL (Sec 10)**

**Plan: Design #1**

## **Standard Planning Report**

**13 June, 2023**



Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Salado Draw 10 Fed #574H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3326.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3326.0usft (Original Well Elev)
Site:	Salado Draw 10 Fed #574H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2090' FWL (Sec 10)		
Design:	Design #1		

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

Site		Salado Draw 10 Fed #574H			
Site Position:		Northing:	382,710.80 usft	Latitude:	32.0498016
From:	Map	Easting:	780,500.90 usft	Longitude:	-103.5614015
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	

Well	Sec 15, T26S, R33E					
Well Position	+N/-S	0.0 usft	Northing:	382,710.80 usft	Latitude:	32.0498016
	+E/-W	0.0 usft	Easting:	780,500.90 usft	Longitude:	-103.5614015
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,326.0 usft	Ground Level:	3,298.0 usft
Grid Convergence:		0.41 °				

Wellbore	BHL: 100' FNL & 2090' FWL (Sec 10)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.13	59.94	48,159.20813747

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	357.76

Plan Survey Tool Program	Date	6/13/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	16,815.7	Design #1 (BHL: 100' FNL & 2090		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,216.5	1.33	233.07	1,216.5	-0.5	-0.6	2.00	2.00	0.00	233.07	
10,769.1	1.33	233.07	10,766.5	-133.7	-177.9	0.00	0.00	0.00	0.00	
10,835.6	0.00	0.00	10,833.0	-134.2	-178.5	2.00	-2.00	0.00	180.00	KOP: 473' FNL & 2090'
11,738.5	90.28	359.62	11,406.0	441.6	-182.3	10.00	10.00	0.00	-0.38	
16,815.7	90.28	359.62	11,381.0	5,518.7	-216.2	0.00	0.00	0.00	0.00	BHL: 100' FNL & 2090'

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 10 Fed #574H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3326.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3326.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 10 Fed #574H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 15, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FNL & 2090' FWL (Sec 10)		
<b>Design:</b>	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: 340' FNL & 2270' FWL (Sec 15)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	1.00	233.07	1,200.0	-0.3	-0.3	-0.2	2.00	2.00	0.00
1,216.5	1.33	233.07	1,216.5	-0.5	-0.6	-0.4	2.00	2.00	0.00
1,300.0	1.33	233.07	1,300.0	-1.6	-2.2	-1.5	0.00	0.00	0.00
1,400.0	1.33	233.07	1,399.9	-3.0	-4.0	-2.9	0.00	0.00	0.00
1,500.0	1.33	233.07	1,499.9	-4.4	-5.9	-4.2	0.00	0.00	0.00
1,600.0	1.33	233.07	1,599.9	-5.8	-7.7	-5.5	0.00	0.00	0.00
1,700.0	1.33	233.07	1,699.9	-7.2	-9.6	-6.8	0.00	0.00	0.00
1,800.0	1.33	233.07	1,799.8	-8.6	-11.4	-8.1	0.00	0.00	0.00
1,900.0	1.33	233.07	1,899.8	-10.0	-13.3	-9.5	0.00	0.00	0.00
2,000.0	1.33	233.07	1,999.8	-11.4	-15.2	-10.8	0.00	0.00	0.00
2,100.0	1.33	233.07	2,099.8	-12.8	-17.0	-12.1	0.00	0.00	0.00
2,200.0	1.33	233.07	2,199.7	-14.2	-18.9	-13.4	0.00	0.00	0.00
2,300.0	1.33	233.07	2,299.7	-15.6	-20.7	-14.8	0.00	0.00	0.00
2,400.0	1.33	233.07	2,399.7	-17.0	-22.6	-16.1	0.00	0.00	0.00
2,500.0	1.33	233.07	2,499.6	-18.4	-24.4	-17.4	0.00	0.00	0.00
2,600.0	1.33	233.07	2,599.6	-19.8	-26.3	-18.7	0.00	0.00	0.00
2,700.0	1.33	233.07	2,699.6	-21.2	-28.1	-20.0	0.00	0.00	0.00
2,800.0	1.33	233.07	2,799.6	-22.6	-30.0	-21.4	0.00	0.00	0.00
2,900.0	1.33	233.07	2,899.5	-23.9	-31.9	-22.7	0.00	0.00	0.00
3,000.0	1.33	233.07	2,999.5	-25.3	-33.7	-24.0	0.00	0.00	0.00
3,100.0	1.33	233.07	3,099.5	-26.7	-35.6	-25.3	0.00	0.00	0.00
3,200.0	1.33	233.07	3,199.5	-28.1	-37.4	-26.6	0.00	0.00	0.00
3,300.0	1.33	233.07	3,299.4	-29.5	-39.3	-28.0	0.00	0.00	0.00
3,400.0	1.33	233.07	3,399.4	-30.9	-41.1	-29.3	0.00	0.00	0.00
3,500.0	1.33	233.07	3,499.4	-32.3	-43.0	-30.6	0.00	0.00	0.00
3,600.0	1.33	233.07	3,599.4	-33.7	-44.8	-31.9	0.00	0.00	0.00
3,700.0	1.33	233.07	3,699.3	-35.1	-46.7	-33.2	0.00	0.00	0.00
3,800.0	1.33	233.07	3,799.3	-36.5	-48.6	-34.6	0.00	0.00	0.00
3,900.0	1.33	233.07	3,899.3	-37.9	-50.4	-35.9	0.00	0.00	0.00
4,000.0	1.33	233.07	3,999.2	-39.3	-52.3	-37.2	0.00	0.00	0.00
4,100.0	1.33	233.07	4,099.2	-40.7	-54.1	-38.5	0.00	0.00	0.00
4,200.0	1.33	233.07	4,199.2	-42.1	-56.0	-39.9	0.00	0.00	0.00
4,300.0	1.33	233.07	4,299.2	-43.5	-57.8	-41.2	0.00	0.00	0.00
4,400.0	1.33	233.07	4,399.1	-44.9	-59.7	-42.5	0.00	0.00	0.00
4,500.0	1.33	233.07	4,499.1	-46.3	-61.5	-43.8	0.00	0.00	0.00
4,600.0	1.33	233.07	4,599.1	-47.7	-63.4	-45.1	0.00	0.00	0.00
4,700.0	1.33	233.07	4,699.1	-49.1	-65.3	-46.5	0.00	0.00	0.00
4,800.0	1.33	233.07	4,799.0	-50.4	-67.1	-47.8	0.00	0.00	0.00
4,900.0	1.33	233.07	4,899.0	-51.8	-69.0	-49.1	0.00	0.00	0.00
5,000.0	1.33	233.07	4,999.0	-53.2	-70.8	-50.4	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 10 Fed #574H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3326.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3326.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 10 Fed #574H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 15, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FNL & 2090' FWL (Sec 10)		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	1.33	233.07	5,098.9	-54.6	-72.7	-51.7	0.00	0.00	0.00
5,200.0	1.33	233.07	5,198.9	-56.0	-74.5	-53.1	0.00	0.00	0.00
5,300.0	1.33	233.07	5,298.9	-57.4	-76.4	-54.4	0.00	0.00	0.00
5,400.0	1.33	233.07	5,398.9	-58.8	-78.2	-55.7	0.00	0.00	0.00
5,500.0	1.33	233.07	5,498.8	-60.2	-80.1	-57.0	0.00	0.00	0.00
5,600.0	1.33	233.07	5,598.8	-61.6	-81.9	-58.3	0.00	0.00	0.00
5,700.0	1.33	233.07	5,698.8	-63.0	-83.8	-59.7	0.00	0.00	0.00
5,800.0	1.33	233.07	5,798.8	-64.4	-85.7	-61.0	0.00	0.00	0.00
5,900.0	1.33	233.07	5,898.7	-65.8	-87.5	-62.3	0.00	0.00	0.00
6,000.0	1.33	233.07	5,998.7	-67.2	-89.4	-63.6	0.00	0.00	0.00
6,100.0	1.33	233.07	6,098.7	-68.6	-91.2	-65.0	0.00	0.00	0.00
6,200.0	1.33	233.07	6,198.7	-70.0	-93.1	-66.3	0.00	0.00	0.00
6,300.0	1.33	233.07	6,298.6	-71.4	-94.9	-67.6	0.00	0.00	0.00
6,400.0	1.33	233.07	6,398.6	-72.8	-96.8	-68.9	0.00	0.00	0.00
6,500.0	1.33	233.07	6,498.6	-74.2	-98.6	-70.2	0.00	0.00	0.00
6,600.0	1.33	233.07	6,598.5	-75.6	-100.5	-71.6	0.00	0.00	0.00
6,700.0	1.33	233.07	6,698.5	-76.9	-102.4	-72.9	0.00	0.00	0.00
6,800.0	1.33	233.07	6,798.5	-78.3	-104.2	-74.2	0.00	0.00	0.00
6,900.0	1.33	233.07	6,898.5	-79.7	-106.1	-75.5	0.00	0.00	0.00
7,000.0	1.33	233.07	6,998.4	-81.1	-107.9	-76.8	0.00	0.00	0.00
7,100.0	1.33	233.07	7,098.4	-82.5	-109.8	-78.2	0.00	0.00	0.00
7,200.0	1.33	233.07	7,198.4	-83.9	-111.6	-79.5	0.00	0.00	0.00
7,300.0	1.33	233.07	7,298.4	-85.3	-113.5	-80.8	0.00	0.00	0.00
7,400.0	1.33	233.07	7,398.3	-86.7	-115.3	-82.1	0.00	0.00	0.00
7,500.0	1.33	233.07	7,498.3	-88.1	-117.2	-83.5	0.00	0.00	0.00
7,600.0	1.33	233.07	7,598.3	-89.5	-119.1	-84.8	0.00	0.00	0.00
7,700.0	1.33	233.07	7,698.2	-90.9	-120.9	-86.1	0.00	0.00	0.00
7,800.0	1.33	233.07	7,798.2	-92.3	-122.8	-87.4	0.00	0.00	0.00
7,900.0	1.33	233.07	7,898.2	-93.7	-124.6	-88.7	0.00	0.00	0.00
8,000.0	1.33	233.07	7,998.2	-95.1	-126.5	-90.1	0.00	0.00	0.00
8,100.0	1.33	233.07	8,098.1	-96.5	-128.3	-91.4	0.00	0.00	0.00
8,200.0	1.33	233.07	8,198.1	-97.9	-130.2	-92.7	0.00	0.00	0.00
8,300.0	1.33	233.07	8,298.1	-99.3	-132.0	-94.0	0.00	0.00	0.00
8,400.0	1.33	233.07	8,398.1	-100.7	-133.9	-95.3	0.00	0.00	0.00
8,500.0	1.33	233.07	8,498.0	-102.1	-135.8	-96.7	0.00	0.00	0.00
8,600.0	1.33	233.07	8,598.0	-103.4	-137.6	-98.0	0.00	0.00	0.00
8,700.0	1.33	233.07	8,698.0	-104.8	-139.5	-99.3	0.00	0.00	0.00
8,800.0	1.33	233.07	8,798.0	-106.2	-141.3	-100.6	0.00	0.00	0.00
8,900.0	1.33	233.07	8,897.9	-107.6	-143.2	-101.9	0.00	0.00	0.00
9,000.0	1.33	233.07	8,997.9	-109.0	-145.0	-103.3	0.00	0.00	0.00
9,100.0	1.33	233.07	9,097.9	-110.4	-146.9	-104.6	0.00	0.00	0.00
9,200.0	1.33	233.07	9,197.8	-111.8	-148.7	-105.9	0.00	0.00	0.00
9,300.0	1.33	233.07	9,297.8	-113.2	-150.6	-107.2	0.00	0.00	0.00
9,400.0	1.33	233.07	9,397.8	-114.6	-152.5	-108.6	0.00	0.00	0.00
9,500.0	1.33	233.07	9,497.8	-116.0	-154.3	-109.9	0.00	0.00	0.00
9,600.0	1.33	233.07	9,597.7	-117.4	-156.2	-111.2	0.00	0.00	0.00
9,700.0	1.33	233.07	9,697.7	-118.8	-158.0	-112.5	0.00	0.00	0.00
9,800.0	1.33	233.07	9,797.7	-120.2	-159.9	-113.8	0.00	0.00	0.00
9,900.0	1.33	233.07	9,897.7	-121.6	-161.7	-115.2	0.00	0.00	0.00
10,000.0	1.33	233.07	9,997.6	-123.0	-163.6	-116.5	0.00	0.00	0.00
10,100.0	1.33	233.07	10,097.6	-124.4	-165.4	-117.8	0.00	0.00	0.00
10,200.0	1.33	233.07	10,197.6	-125.8	-167.3	-119.1	0.00	0.00	0.00
10,300.0	1.33	233.07	10,297.5	-127.2	-169.2	-120.4	0.00	0.00	0.00
10,400.0	1.33	233.07	10,397.5	-128.6	-171.0	-121.8	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 10 Fed #574H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3326.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3326.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 10 Fed #574H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 15, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FNL & 2090' FWL (Sec 10)		
<b>Design:</b>	Design #1		

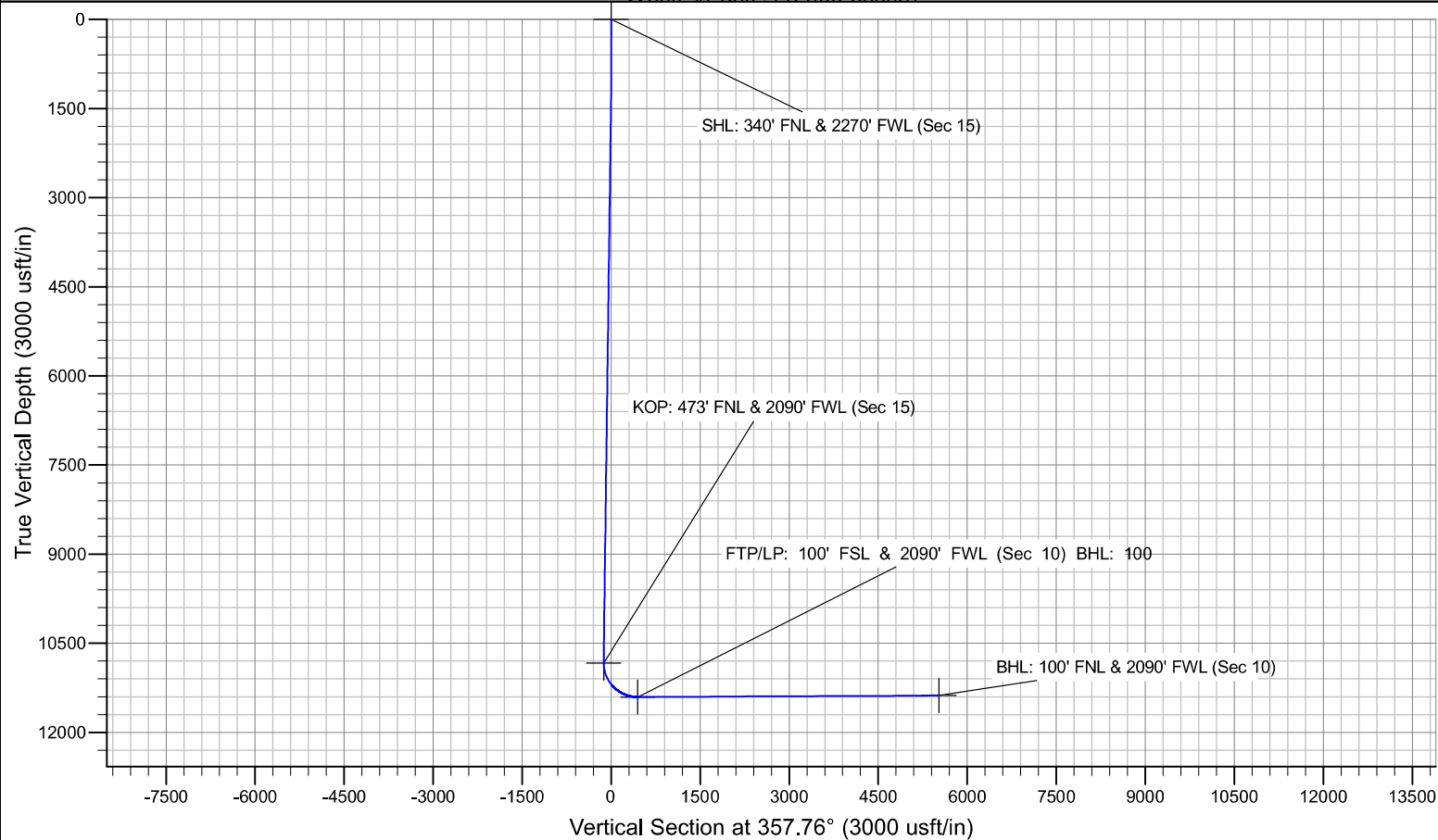
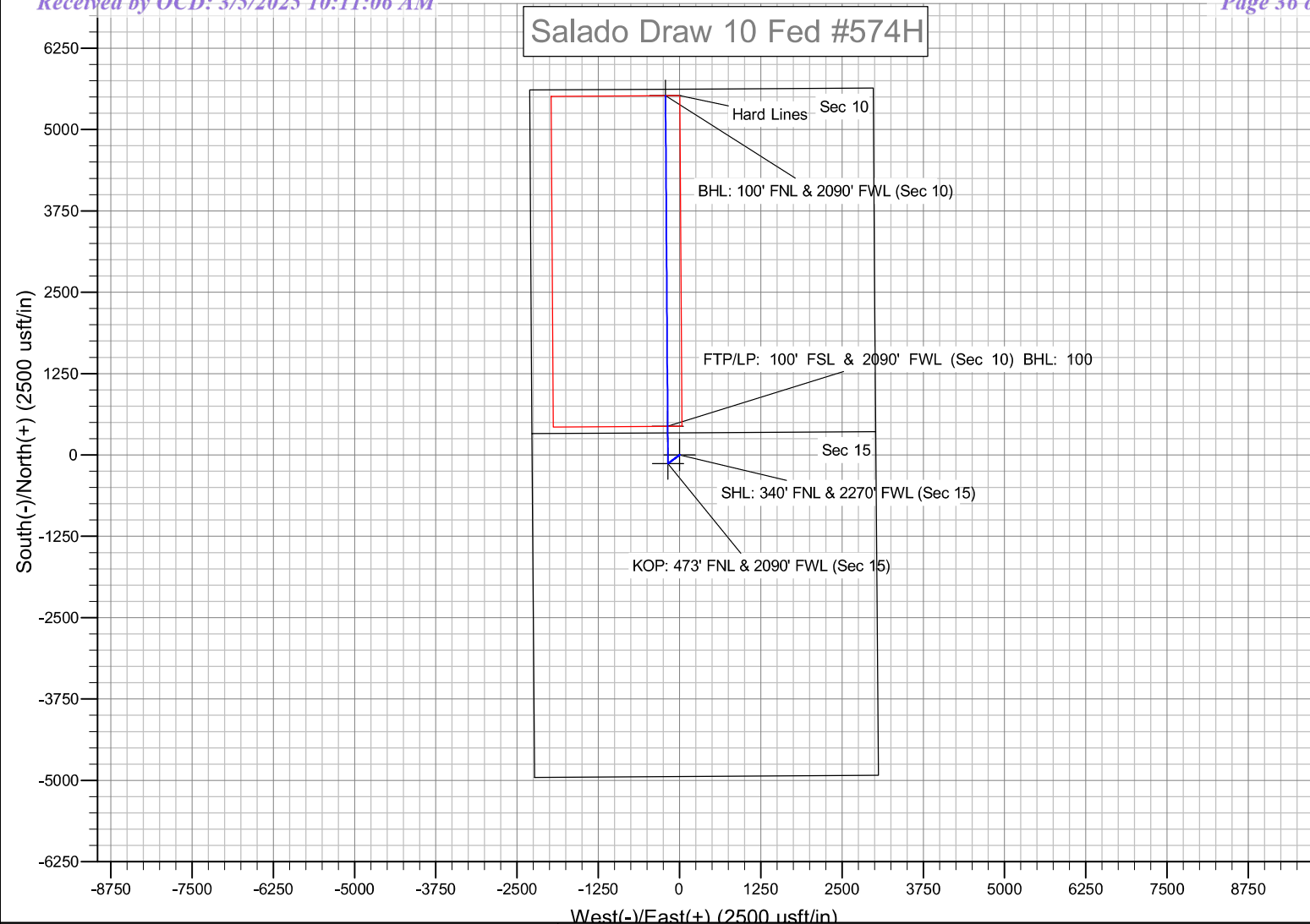
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,500.0	1.33	233.07	10,497.5	-129.9	-172.9	-123.1	0.00	0.00	0.00	
10,600.0	1.33	233.07	10,597.5	-131.3	-174.7	-124.4	0.00	0.00	0.00	
10,700.0	1.33	233.07	10,697.4	-132.7	-176.6	-125.7	0.00	0.00	0.00	
10,769.1	1.33	233.07	10,766.5	-133.7	-177.9	-126.6	0.00	0.00	0.00	
10,800.0	0.71	233.07	10,797.4	-134.0	-178.3	-127.0	2.00	-2.00	0.00	
10,835.6	0.00	0.00	10,833.0	-134.2	-178.5	-127.1	2.00	-2.00	0.00	
KOP: 473' FNL & 2090' FWL (Sec 15)										
10,850.0	1.44	359.62	10,847.4	-134.0	-178.5	-126.9	10.00	10.00	0.00	
10,900.0	6.44	359.62	10,897.3	-130.5	-178.5	-123.5	10.00	10.00	0.00	
10,950.0	11.44	359.62	10,946.7	-122.8	-178.6	-115.7	10.00	10.00	0.00	
11,000.0	16.44	359.62	10,995.2	-110.7	-178.6	-103.7	10.00	10.00	0.00	
11,050.0	21.44	359.62	11,042.4	-94.5	-178.7	-87.4	10.00	10.00	0.00	
11,100.0	26.44	359.62	11,088.1	-74.2	-178.9	-67.2	10.00	10.00	0.00	
11,150.0	31.44	359.62	11,131.9	-50.1	-179.0	-43.0	10.00	10.00	0.00	
11,200.0	36.44	359.62	11,173.3	-22.1	-179.2	-15.1	10.00	10.00	0.00	
11,250.0	41.44	359.62	11,212.2	9.3	-179.4	16.3	10.00	10.00	0.00	
11,300.0	46.44	359.62	11,248.2	44.0	-179.7	51.0	10.00	10.00	0.00	
11,350.0	51.44	359.62	11,281.0	81.6	-179.9	88.6	10.00	10.00	0.00	
11,400.0	56.44	359.62	11,310.5	122.0	-180.2	129.0	10.00	10.00	0.00	
11,450.0	61.44	359.62	11,336.3	164.9	-180.5	171.8	10.00	10.00	0.00	
11,500.0	66.44	359.62	11,358.2	209.8	-180.8	216.7	10.00	10.00	0.00	
11,550.0	71.44	359.62	11,376.2	256.4	-181.1	263.3	10.00	10.00	0.00	
11,600.0	76.43	359.62	11,390.0	304.4	-181.4	311.3	10.00	10.00	0.00	
11,650.0	81.43	359.62	11,399.6	353.5	-181.7	360.3	10.00	10.00	0.00	
11,700.0	86.43	359.62	11,404.9	403.2	-182.1	410.0	10.00	10.00	0.00	
11,735.6	90.00	359.62	11,406.0	438.8	-182.3	445.6	10.00	10.00	0.00	
FTP/LP: 100' FSL & 2090' FWL (Sec 10) BHL: 100										
11,738.5	90.28	359.62	11,406.0	441.6	-182.3	448.4	10.00	10.00	0.00	
11,800.0	90.28	359.62	11,405.7	503.2	-182.7	509.9	0.00	0.00	0.00	
11,900.0	90.28	359.62	11,405.2	603.2	-183.4	609.9	0.00	0.00	0.00	
12,000.0	90.28	359.62	11,404.7	703.2	-184.1	709.8	0.00	0.00	0.00	
12,100.0	90.28	359.62	11,404.2	803.2	-184.7	809.8	0.00	0.00	0.00	
12,200.0	90.28	359.62	11,403.7	903.1	-185.4	909.7	0.00	0.00	0.00	
12,300.0	90.28	359.62	11,403.2	1,003.1	-186.1	1,009.7	0.00	0.00	0.00	
12,400.0	90.28	359.62	11,402.7	1,103.1	-186.7	1,109.6	0.00	0.00	0.00	
12,500.0	90.28	359.62	11,402.3	1,203.1	-187.4	1,209.6	0.00	0.00	0.00	
12,600.0	90.28	359.62	11,401.8	1,303.1	-188.1	1,309.5	0.00	0.00	0.00	
12,700.0	90.28	359.62	11,401.3	1,403.1	-188.7	1,409.4	0.00	0.00	0.00	
12,800.0	90.28	359.62	11,400.8	1,503.1	-189.4	1,509.4	0.00	0.00	0.00	
12,900.0	90.28	359.62	11,400.3	1,603.1	-190.1	1,609.3	0.00	0.00	0.00	
13,000.0	90.28	359.62	11,399.8	1,703.1	-190.7	1,709.3	0.00	0.00	0.00	
13,100.0	90.28	359.62	11,399.3	1,803.1	-191.4	1,809.2	0.00	0.00	0.00	
13,200.0	90.28	359.62	11,398.8	1,903.1	-192.1	1,909.2	0.00	0.00	0.00	
13,300.0	90.28	359.62	11,398.3	2,003.1	-192.7	2,009.1	0.00	0.00	0.00	
13,400.0	90.28	359.62	11,397.8	2,103.1	-193.4	2,109.1	0.00	0.00	0.00	
13,500.0	90.28	359.62	11,397.3	2,203.1	-194.1	2,209.0	0.00	0.00	0.00	
13,600.0	90.28	359.62	11,396.8	2,303.1	-194.7	2,309.0	0.00	0.00	0.00	
13,700.0	90.28	359.62	11,396.3	2,403.1	-195.4	2,408.9	0.00	0.00	0.00	
13,800.0	90.28	359.62	11,395.8	2,503.1	-196.1	2,508.9	0.00	0.00	0.00	
13,900.0	90.28	359.62	11,395.4	2,603.1	-196.7	2,608.8	0.00	0.00	0.00	
14,000.0	90.28	359.62	11,394.9	2,703.1	-197.4	2,708.7	0.00	0.00	0.00	
14,100.0	90.28	359.62	11,394.4	2,803.1	-198.1	2,808.7	0.00	0.00	0.00	
14,200.0	90.28	359.62	11,393.9	2,903.1	-198.7	2,908.6	0.00	0.00	0.00	
14,300.0	90.28	359.62	11,393.4	3,003.1	-199.4	3,008.6	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Salado Draw 10 Fed #574H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3326.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3326.0usft (Original Well Elev)
Site:	Salado Draw 10 Fed #574H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2090' FWL (Sec 10)		
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)	
14,400.0	90.28	359.62	11,392.9	3,103.1	-200.1	3,108.5	0.00	0.00	0.00	
14,500.0	90.28	359.62	11,392.4	3,203.1	-200.7	3,208.5	0.00	0.00	0.00	
14,600.0	90.28	359.62	11,391.9	3,303.1	-201.4	3,308.4	0.00	0.00	0.00	
14,700.0	90.28	359.62	11,391.4	3,403.1	-202.1	3,408.4	0.00	0.00	0.00	
14,800.0	90.28	359.62	11,390.9	3,503.1	-202.7	3,508.3	0.00	0.00	0.00	
14,900.0	90.28	359.62	11,390.4	3,603.1	-203.4	3,608.3	0.00	0.00	0.00	
15,000.0	90.28	359.62	11,389.9	3,703.1	-204.1	3,708.2	0.00	0.00	0.00	
15,100.0	90.28	359.62	11,389.4	3,803.0	-204.8	3,808.1	0.00	0.00	0.00	
15,200.0	90.28	359.62	11,389.0	3,903.0	-205.4	3,908.1	0.00	0.00	0.00	
15,300.0	90.28	359.62	11,388.5	4,003.0	-206.1	4,008.0	0.00	0.00	0.00	
15,400.0	90.28	359.62	11,388.0	4,103.0	-206.8	4,108.0	0.00	0.00	0.00	
15,500.0	90.28	359.62	11,387.5	4,203.0	-207.4	4,207.9	0.00	0.00	0.00	
15,600.0	90.28	359.62	11,387.0	4,303.0	-208.1	4,307.9	0.00	0.00	0.00	
15,700.0	90.28	359.62	11,386.5	4,403.0	-208.8	4,407.8	0.00	0.00	0.00	
15,800.0	90.28	359.62	11,386.0	4,503.0	-209.4	4,507.8	0.00	0.00	0.00	
15,900.0	90.28	359.62	11,385.5	4,603.0	-210.1	4,607.7	0.00	0.00	0.00	
16,000.0	90.28	359.62	11,385.0	4,703.0	-210.8	4,707.7	0.00	0.00	0.00	
16,100.0	90.28	359.62	11,384.5	4,803.0	-211.4	4,807.6	0.00	0.00	0.00	
16,200.0	90.28	359.62	11,384.0	4,903.0	-212.1	4,907.6	0.00	0.00	0.00	
16,300.0	90.28	359.62	11,383.5	5,003.0	-212.8	5,007.5	0.00	0.00	0.00	
16,400.0	90.28	359.62	11,383.0	5,103.0	-213.4	5,107.4	0.00	0.00	0.00	
16,500.0	90.28	359.62	11,382.6	5,203.0	-214.1	5,207.4	0.00	0.00	0.00	
16,600.0	90.28	359.62	11,382.1	5,303.0	-214.8	5,307.3	0.00	0.00	0.00	
16,700.0	90.28	359.62	11,381.6	5,403.0	-215.4	5,407.3	0.00	0.00	0.00	
16,800.0	90.28	359.62	11,381.1	5,503.0	-216.1	5,507.2	0.00	0.00	0.00	
16,815.7	90.28	359.62	11,381.0	5,518.7	-216.2	5,522.9	0.00	0.00	0.00	
BHL: 100' FNL & 2090' FWL (Sec 10)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 340' FNL & 2270' F - hit/miss target - Shape - Point	0.00	0.00	0.0	0.0	0.0	382,710.80	780,500.90	32.0498016	-103.5614015
KOP: 473' FNL & 2090' I - plan hits target center - Point	0.00	0.00	10,833.0	-134.2	-178.5	382,576.63	780,322.42	32.0494363	-103.5619806
BHL: 100' FNL & 2090' F - plan hits target center - Point	0.00	0.00	11,381.0	5,518.7	-216.2	388,229.50	780,284.70	32.0649753	-103.5619720
FTP/LP: 100' FSL & 209 - plan hits target center - Point	0.00	0.00	11,406.0	438.8	-182.3	383,149.60	780,318.60	32.0510113	-103.5619798





**Mewbourne Oil Company, Salado Draw 10 Fed #574H****Sec 15, T26S, R33E****SHL: 340' FNL & 2270' FWL (Sec 15)****BHL: 100' FNL & 2090' FWL (Sec 10)**

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Salado Draw 10 Fed	#574H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	15	26S	33E	-	473'	FNL	2090'	FWL	Lea
Latitude					Longitude			NAD	
								83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	10	26S	33E	-	100'	FSL	2090'	FWL	Lea
Latitude					Longitude			NAD	
								83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	10	26S	33E	-	100'	FNL	2090'	FWL	Lea
Latitude					Longitude			NAD	
32.0649753					-103.5619721			83	

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

☐

Is this well an infill well?

☐

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

API #

Operator Name:	Property Name:	Well Number

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** MEWBOURNE OIL COMPANY  
**WELL NAME & NO.:** SALADO DRAW 10 FED 574H  
**APD ID:** 10400092823  
**LOCATION:** Section 15, T.26 S., R.33 E. NMP.  
**COUNTY:** Lea County, New Mexico ▼

COA

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

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### B. CASING DESIGN

1. The **13-3/8** inch surface casing shall be set at approximately **1,120 ft.** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to

- include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8** inch intermediate casing shall be set in a competent bed at approximately **4,875 ft.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
- **Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst**.

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

**Note:** Intermediate casing must be kept fluid filled to meet minimum collapse design requirements.

3. Operator has proposed to set **7 in.** (P-110 26#) production casing at approximately **10,770 ft.** (10,767 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:

**Option 1 (Single Stage):** Cement should tie-back **at least 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.

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

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
  - b. **Second stage above DV tool:** Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:
- Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

### C. PRESSURE CONTROL

1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**. Before drilling the surface casing shoe out, the BOP/BOPE shall be pressure-tested in accordance with **title 43 CFR 3172 and API Standard 53**.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in the **title 43 CFR 3172.6(b)(9)** must be followed.

### GENERAL REQUIREMENTS

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

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

#### Contact Lea County Petroleum Engineering Inspection Staff:

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

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

- b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> 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 2<sup>nd</sup> Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### A. CASING

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

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

## **B. PRESSURE CONTROL**

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



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

hour chart is used, tester shall make a notation that it is run with a two hour clock.

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

#### **C. DRILLING MUD**

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

#### **D. WASTE MATERIAL AND FLUIDS**

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

**SA 08/26/2024**

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 H<sub>2</sub>S were found. MOC will have on location and working all H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S 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**

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

<b>Mewbourne Oil Company</b>	<b>Hobbs District Office</b>	<b>575-393-5905</b>
	<b>Fax</b>	<b>575-397-6252</b>
	<b>2<sup>nd</sup> Fax</b>	<b>575-393-7259</b>

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

**Operator Name:** MEWBOURNE OIL COMPANY**Well Name:** SALADO DRAW 10 FED**Well Number:** 574H**Disposal type description:****Disposal location description:** City of Carlsbad Water Treatment facility**Waste type:** GARBAGE**Waste content description:** Garbage & Trash**Amount of waste:** 1500 pounds**Waste disposal frequency :** One Time Only**Safe containment description:** Enclosed trash trailer**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** Waste Management facility in Carlsbad.

### Reserve Pit

**Reserve Pit being used?** NO**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)****Reserve pit width (ft.)****Reserve pit depth (ft.)****Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO**Are you storing cuttings on location?** N**Description of cuttings location****Cuttings area length (ft.)****Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 10 FED

Well Number: 574H

### Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

### Section 9 - Well Site

Well Site Layout Diagram:

Salado\_Draw\_10\_Fed\_Com\_574H\_WellSiteLayout\_20230612152144.pdf

Comments: NONE

### Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Salado Draw 10 571, 521, 458,  
572,574,456,513,524

Multiple Well Pad Number: 8

Recontouring

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance  
(acres): 4.71Well pad interim reclamation (acres):  
1.25Well pad long term disturbance  
(acres): 3.44Road proposed disturbance (acres):  
0.53

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0

Powerline proposed disturbance  
(acres): 0Powerline interim reclamation (acres):  
0Powerline long term disturbance  
(acres): 0Pipeline proposed disturbance  
(acres): 0.005

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance  
(acres): 0.005

Other proposed disturbance (acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 5.245

Total interim reclamation: 1.25

Total long term disturbance: 3.445

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

**Reconstruction method:** The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

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



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

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oecd/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 439216

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 439216
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	3/5/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	3/5/2025
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	4/21/2025
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	4/21/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	4/21/2025
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	4/21/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/21/2025