Form 3160-3 FORM APPROVED OMB No. 1004-0137 (October 2024) Expires: October 31, 2027 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM13413 **BUREAU OF LAND MANAGEMENT** APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: NMNM1006367224 Oil Well 1b. Type of Well: Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone OXBOW 23/24 FED COM 2. Name of Operator 9. API Well No. MEWBOURNE OIL COMPANY 30-015-57413 3a Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory PURPLE SAGE/Wolfcamp Gas P O BOX 5270, HOBBS, NM 88241 (575) 393-5905 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 22/T25S/R28E/NMP At surface NENE / 1035 FNL / 250 FEL / LAT 32.1198849 / LONG -104.0672955 At proposed prod. zone SENE / 1430 FNL / 330 FEL / LAT 32.1187479 / LONG -104.0333372 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State **EDDY** NM 20 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 630 feet location to nearest property or lease line, ft. 640.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 20 feet 10683 feet / 20774 feet FED: NM1693 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 2995 feet 04/14/2025 60 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the Name (Printed/Typed) Date 25. Signature BRADLEY BISHOP / Ph: (575) 393-5905 03/18/2025 (Electronic Submission) Title Regulatory Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 07/21/2025 Title Office Assistant Field Manager Lands & Minerals 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.



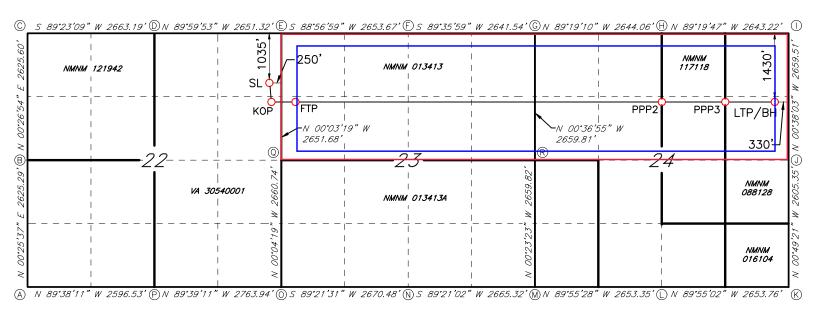
Energy, Minera					State of No erals & Natu			artm	ent			Revised Ju	uly 9, 2024	
	Electronica CD Permittin						ON DIVISION					Initial Submitt	·a1	
V Ia OC	D I emittin	ıg								Subm		☐ Amended Rep		
										Type		☐ As Drilled		
			1		WELL LOCA	ATI	ATION INFORMATION							
API Nu	mber 30-015-	57413	Pool Code 98220				ool Name PURPLE SAC	S POOL						
Property	y Code 334810		Property Na	ame	OXB	OW	OW 23/24 FED COM					Well Number 853H		
OGRID 14744	No.		Operator Na	ame	MEWB	υ	JRNE OIL C	OMF	PANY		Grou	and Level Elevation	2995'	
Surface	Surface Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal						Mineral Owner:	☐ Sta	te 🗆 Fee	☐ Tribal	K Fee	deral		
Su						rfac	e Location							
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latit	ude		Long	gitude	County	
A	22	25S	28E		1035 FN	ΙL	250 FEL	32.	11988	49°N	104	.0672955°W	EDDY	
					Botto	m F	Hole Location							
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latit			Long		County	
H	24	25S	28E		1430 FN	1L	330 FEL	32.	11874	79°N	104	.0333372°W	EDDY	
		T = mu = m		T			1			~				
Dedicate 640	ed Acres	Infill or Defin	_	Defining	Well API		Overlapping Spacing Unit (Y/N) Consolidation Code C							
Order N	iumhers	DEI IMIN	<u></u>				N Well setbacks are under Common Ownership: ☐ Yes ☐ No							
3140111						0.00						-		
UL	Section	Township	Danga .	Lot	Ft. from N/S	Off	Point (KOP) Ft. from E/W	Latit	uda.		Long	itudo	Countri	
H	22	25S	Range 28E	Lot	1430 FN	JT.	243 FEL			98°N	·	.0672748°W	County EDDY	
	~~		_ ZOE				e Point (FTP)	0~	11010		101	.0012110 11	BDD1	
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latit	ude		Long	gitude	County	
E	23	25S	28E		1430 FN	ΙL	330 FWL	32.	11881	25°N	104	.0654245°W	EDDY	
			<u> </u>	.1	Last 7	Tak	e Point (LTP)	<u> </u>						
		Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latit			Long		County	
H	24	25S	28E		1430 FN	1L	330 FEL	32.	.11874	79°N	104	.0333372°W	EDDY	
Unitized	l Area or Ar	rea of Uniform	Interest	Spacing	Unit Type 🛭 Ho	oriz	ontal Vertical		Grour	nd Floor	Elevat	ion: 2995		
												2990		
OPER A	ATOR CER	TIFICATIONS	3				SURVEYOR CER	TIFIC	CATIONS					
					plete to the best of		I hereby certify that th	ie well	location show	yn on this	plat wa	s plotted from field no	tes of actual	
organiza	tion either own	ef, and , if the well as a working inter	est or unleased r	mineral intere	est in the land		surveys made by me un my belief.	nder m _.				ne is true and correct t	o the best of	
location p	pursuant to a c		wner of a workir	ng interest or	r unleased mineral				/\$/ <u>i</u>	N ME	6			
	or to a volunta sy the division.		ient or a compu	lsory pooling	g order heretofore					, 19680				
		tal well, I further o												
in each tr	ract (in the targ	get pool or format		TEGONAL SUPER										
_	viii be iocaiea ett Mi	or obtained a con	ine aivision.				37	DNAL	SU!					
Signature	ac m	<u> </u>		Signature and Seal of Professional Surveyor										
Brett	Miller	Robert M. Howell												
Printed Na	rinted Name						Certificate Number Date of Survey			vey				
brett.	.miller@	<u>)mewbour</u>	ne.com				19680			1	0/1	8/2024		
Email Add			10/10/2021				,							

ACREAGE DEDICATION PLATS

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

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

OXBOW 23/24 FED COM #853H



NAD 83 GRID — NM EAST

SURFACE LOCATION (SL)
N: 407451.9 - E: 623698.7
LAT: 32.1198849* N
LONG: 104.0672955* W

KICK OFF POINT (KOP) 1430' FNL & 243' FEL (SEC.22) N: 407057.2 - N: 623706.1 LAT: 32.1187998' N LONG: 104.0672748' W

FIRST TAKE POINT (FTP)
1430' FNL & 330' FWL (SEC.23)
N: 407063.2 - E: 624278.9
LAT: 32.1188125' N
LONG: 104.0654245' W

PROPOSED PENETRATION POINT 2 (PPP2)

1458' FNL & 2643' FWL (SEC.24)

N: 407065.3 - E: 631899.9

LAT: 32.1187637' N

LONG: 104.0408081' W

PROPOSED PENETRATION POINT 3 (PPP3)

1442' FNL & 1322' FEL (SEC.24)

N: 407065.6 - E: 633221.3

LAT: 32.1187547' N

LONG: 104.0365399' W

LAST TAKE POINT (LTP)/BOTTOM HOLE (BH)
N: 407065.9 - E: 634212.8
LAT: 32.1187479* N
LONG: 104.0333372* W

<u>CORNER DATA</u> NAD 83 GRID — NM EAST

A: FOUND BRASS CAP "1940' J: FOUND BRASS CAP "1940' N: 403208.9 - E: 618594.4 N: 405832.9 - E: 634556.4 B: FOUND BRASS CAP "1940' K: FOUND BRASS CAP "1940" N: 403228.4 - E: 634593.7 N: 405833.5 - E: 618613.9 C: FOUND BRASS CAP "1940" L: FOUND BRASS CAP " 1940" N: 408458.4 - E: 618634.5 N: 403232.2 - E: 631940.6 D: FOUND BRASS CAP "1940" M: FOUND BRASS CAP "1940" N: 408487.0 - E: 621296.9 N: 403235.7 - E: 629287.8 E: FOUND BRASS CAP "1940" N: FOUND BRASS CAP "1940" N: 408486.9 - E: 623947.7 N: 403205.5 - E: 626623.3 F: FOUND BRASS CAP "1940" O: FOUND BRASS CAP "1940" N: 408535.5 - E: 626600.3 N: 403175.6 - E: 623953.6 P: FOUND BRASS CAP "1940" G: FOUND BRASS CAP "1940" N: 408554.0 - E: 629241.2 N: 403192.4 - E: 621190.3 H: FOUND BRASS CAP "1940" Q: FOUND BRASS CAP "1940" N: 408522.6 - E: 631884.5 N: 405835.8 - E: 623950.2 I: FOUND BRASS CAP "1940" R: FOUND BRASS CAP "1940" N: 408491.6 - E: 634526.9 N: 405894.9 - E: 629269.7

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 Manag	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: Mev	vbourne C	Oil Co.	OGRID:	14744	Date:	<u> 1</u> ,	/28/25					
II. Type: 🗶 Original 🛭	☐ Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C □ 19.15.27.9.D(6)(b) NMAC □ (Other.						
If Other, please describe	e:											
III. Well(s): Provide the be recompleted from a s					wells proposed to	be dri	lled or proposed to					
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	P	Anticipated roduced Water BBL/D					
OXBOW 23/24 FED COM 853H		A 22 25S 28E	1430' FNL x 243' FI	L 1000	10000		5000					
				Y1-500 Y2-300 Y3-200	Y1-5000 Y2-3000 Y3-200	00 Y1	-2500 Y2-1500 Y3-1000					
IV. Central Delivery P	oint Name:	OXB	OW 23/24 FED C	OM 853H	[See 1	9.15.2	7.9(D)(1) NMAC]					
V. Anticipated Schedul proposed to be recompled					rell or set of wells	propo	osed to be drilled or					
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date					
OXBOW 23/24 FED COM 853H		02/28/25	03/28/25	04/28/25	05/13	3/25	05/18/25					
VI. Separation Equipm VII. Operational Prac Subsection A through F VIII. Best Management during active and planne	tices: 🛛 Attac of 19.15.27.8 I	h a complete desc NMAC.	ription of the act	ions Operator wil	I take to comply	with t	he requirements of					

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.

X 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
V V 4 10 0 4 1 1 0 4 0 W	3.00		

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. \square 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 \square will \square 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 \square does \square 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.

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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: power generation on lease; (a) (b) power generation for grid; compression on lease; (c) liquids removal on lease; (d) reinjection for underground storage; (e) reinjection for temporary storage; **(f)**

- reinjection for enhanced oil recovery; **(g)**
- fuel cell production; and (h)
- 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:
- 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
- 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:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address	BBISHOP@MEWBOURNE.COM
Date:	01/28/2025
Phone:	575-393-5905
d d	OIL CONSERVATION DIVISION
	(Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of A	pproval:

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

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

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

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



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

Well Name: OXBOW 23/24 FED COM

Drilling Plan Data Report 10/15/2025

APD ID: 10400103718

Submission Date: 03/18/2025

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 853H

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
16063532	UNKNOWN	2972	28	28	OTHER : Top Soil	NONE	N
16063550	TOP SALT	1902	1070	1070	SALT	NONE	N
16063533	BOTTOM SALT	592	2380	2380	SALT	NONE	N
16063538	LAMAR	392	2580	2580	LIMESTONE	NATURAL GAS, OIL	N
16063545	BELL CANYON	357	2615	2615	SANDSTONE	NATURAL GAS, OIL	N
16063546	CHERRY CANYON	-488	3460	3460	SANDSTONE	NATURAL GAS, OIL	N
16063543	MANZANITA	-628	3600	3600	LIMESTONE	NATURAL GAS, OIL	N
16063531	BONE SPRING	-3328	6300	6300	LIMESTONE	NATURAL GAS, OIL	N
16063547	BONE SPRING 1ST	-4228	7200	7200	SANDSTONE	NATURAL GAS, OIL	N
16063551	BONE SPRING 2ND	-5038	8010	8010	SANDSTONE	NATURAL GAS, OIL	N
16063552	BONE SPRING 3RD	-6148	9120	9120	SANDSTONE	NATURAL GAS, OIL	N
16063553	WOLFCAMP	-6558	9530	9530	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 20774

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

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and

Well Name: OXBOW 23/24 FED COM Well Number: 853H

testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Choke Diagram Attachment:

5M_BOPE_Choke_Diagram_20250214083659.pdf Flex_Line_Specs_API_16C_20250214083706.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20250214083711.pdf

MOC_Break_Testing_Variance_20250214083726.pdf

3 String Multi Bowl WH 20250424103255.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	Υ	0	900	0	900	2995	2095	900	H-40	48	ST&C	1.91	4.3	DRY	7.45	DRY	12.5 2
2	INTERMED IATE	12 . 2 5	9.625	NEW	API	Υ	0	2500	0	2500		495	2500	J-55	36	LT&C	1.53	2 . 65	DRY	5.03	DRY	6.27
3	PRODUCTI ON	8.75	7.0	NEW	API	Υ	0	9938	0	9930		-6935	9938	P- 110	26	LT&C	1.24	1.99	DRY	2.68	DRY	3.21
4	LINER	6.12 5	4.5	NEW	API	Υ	9738	20774	9785	10683	-6790	-7688	11036	P- 110	13.5	LT&C	1.6	1.86	DRY	2.27	DRY	2.83

Casing Attachments

Well Name: OXBOW 23/24 FED COM Well Number: 853H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Oxbow_23_24_Fed_Com_553H_Tapered_String_20250313152620.pdf

Casing Design Assumptions and Worksheet(s):

13.375in_48__H40_STC_Csg_20250129134327.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Oxbow_23_24_Fed_Com_553H_Tapered_String_20250313152646.pdf

Casing Design Assumptions and Worksheet(s):

9.625in_36__J55_LTC_Csg_20250129134358.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Oxbow_23_24_Fed_Com_553H_Tapered_String_20250313152732.pdf

Casing Design Assumptions and Worksheet(s):

7in_26__P110_LTC_Csg_20250129134435.pdf

Well Name: OXBOW 23/24 FED COM Well Number: 853H

Casing Attachments

Casing ID: 4

String

LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Oxbow_23_24_Fed_Com_553H_Tapered_String_20250313152802.pdf

Casing Design Assumptions and Worksheet(s):

4.5in_13.5__P110_LTC_Csg_20250129134508.pdf

Section 4 - Cement

										1	1
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	710	470	2.12	12.5	1000	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	6	710	900	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1808	330	2.12	12.5	700	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail	1	1808	2500	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3600	2300	2886	50	2.12	12.5	110	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		2886	3600	100	1.34	14.8	134	25	Class C	Retarder, Fluid Loss, Defoamer
PRODUCTION	Lead	3600	3600	7449	340	2.12	12.5	730	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		7449	9938	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9738	2077 4	710	1.85	13.5	1320	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Well Name: OXBOW 23/24 FED COM Well Number: 853H

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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.

Describe the mud monitoring system utilized: Visual monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	900	SPUD MUD	8.4	8.6		V					
900	2500	SALT SATURATED	10	10.2							
2500	1065 0	WATER-BASED MUD	8.6	9.7							
1065 0	2077 4	OIL-BASED MUD	10	12							

Well Name: OXBOW 23/24 FED COM Well Number: 853H

Section 6 - Test, Logging, Coring

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

No logs are planned based on well control or offset log information. Offset Well: Oxbow 23/24 Fed Com #874H

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6666

Anticipated Surface Pressure: 4315

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_Plan_20250129135236.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

OXBOW_23_24_FED_COM_853H_Dir_Plan_20250214084342.pdf OXBOW_23_24_FED_COM_853H_Dir_Plot_20250214084346.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

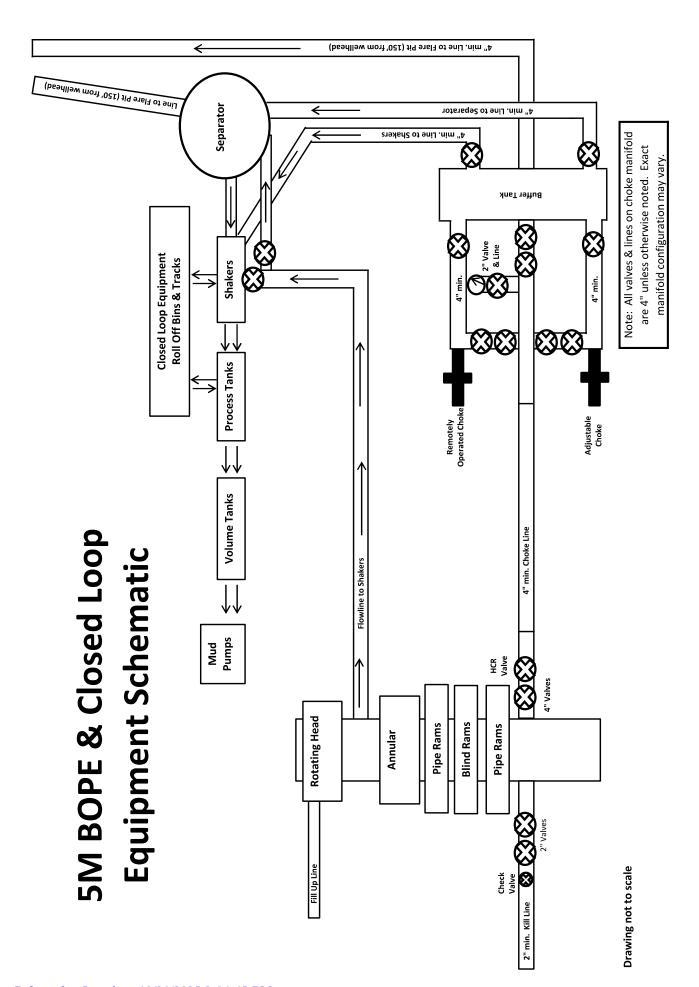
OXBOW_23_24_FED_COM_853H_NGMP_20250214084355.pdf
Oxbow_23_24_Fed_Com_853H_Drlg_Program_20250214084407.pdf

Other Variance request(s)?:

Other Variance attachment:

MOC_Break_Testing_Variance_20250129135342.pdf
MOC_Offline_Cementing_Variance_20250129135343.pdf







LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

№: 230826015

Product Name	Cho	ke And Kill Hose		Standard	AP)	Spec 16C 3 rd edition
Product Specification	n 3″×1000	0psi×60ft(18.29m) S	Serial Num	ber	7660144
Inspection Equipme	nt MTU	J-BS-1600-3200-E		Test mediu	ım	Water
Inspection Departme	nt (Q.C. Department	Ir	nspection [Date	2023.08.26
	*	Rate of le	ngth change		•	
Standard requirement	ts At working pr	essure, the rate of le	ngth change sh	ould not m	ore than ±29	6
Testing result	10000psi (69.0	MPa) ,Rate of lengt	th change 0.7%	ś		
		Hydrosta	tic testing			
Standard requiremen		orking pressure, the ssure-holding period				ss than three minutes
Testing result	15000psi (103	.5MPa), 3 min for th	ne first time, 60	min for th	ne second time	, no leakage
raph of pressure test	ing:					West 5
	M21 715627 715627 715627 715			23-07-58 23-55-5		002958 003958 00
Conclusion	The inspec	eted items meet stand	dard requireme	ents of API	Spec 16C 3 rd e	edition



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

№: LT2023-126-002

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

	Inspection	on Items	3		Inspection results					
	Appearance (Checkin	g		In accordance with API Spec 16C 3 rd edition					
	Size and L	engths			In accordar	nce with API Spec	16C 3 rd edition			
Γ	Dimensions and	d Tolerar	nces		In accordar	nce with API Spec	16C 3 rd edition			
End Connections: 4-	/16"×10000psi I	ntegral fla	ange for sour gas ser	vice	In accorda	nce with API Spec	6A 21st edition			
End Connections: 4-	1/16″×10000psi I	ntegral fla	ange for sour gas ser	vice	In accordance with API Spec 17D 3rd edition					
	Hydrostatic	Testing			In accordance with API Spec 16C 3 rd edition					
	product M	arking			In accordance with API Spec 16C 3 rd edition					
Inspection con	nclusion		The inspected ite	ms m	eet standard requirer	ments of API Spec	16C 3 rd edition			
Remark	:s									
Approver	Jian long (Chen	Auditor	1/1	nging Dong	Inspector	Zhansheng Wang			



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

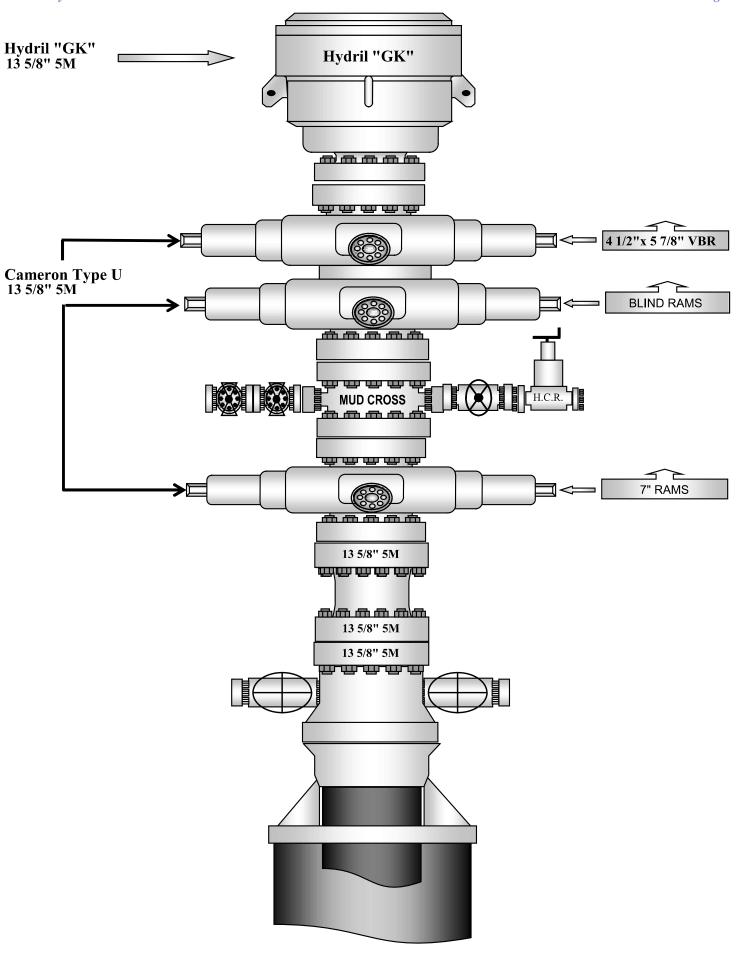
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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

Jian long Chen

QC Manager:

Date: Aug 26, 2023





Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart. Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

- 1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
- 2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
- 3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
- 4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
- 5. The rig will then walk to the next well.
- 6. Confirm that the well is static and remove the capping flange.
- 7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP guick connect will be reconnected.
- 8. Install a test plug into the wellhead.
- 9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
- 10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
- 11. The annular, blind rams and lower pipe rams will then be function tested.
- 12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

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

After Nipple Down:

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

<u>Summary</u>

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.



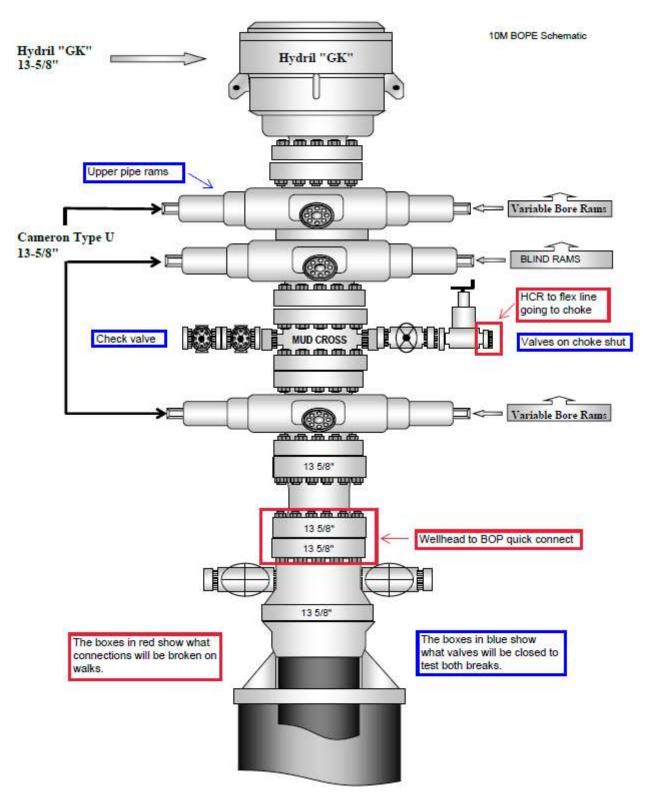


Figure 1. BOP diagram



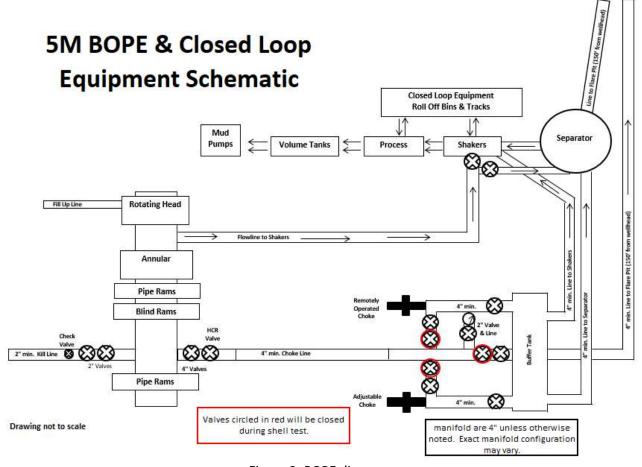


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



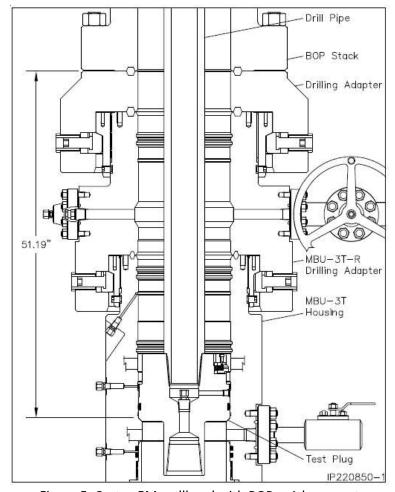


Figure 5. Cactus 5M wellhead with BOP quick connect

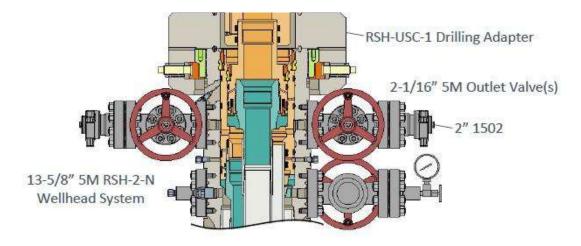
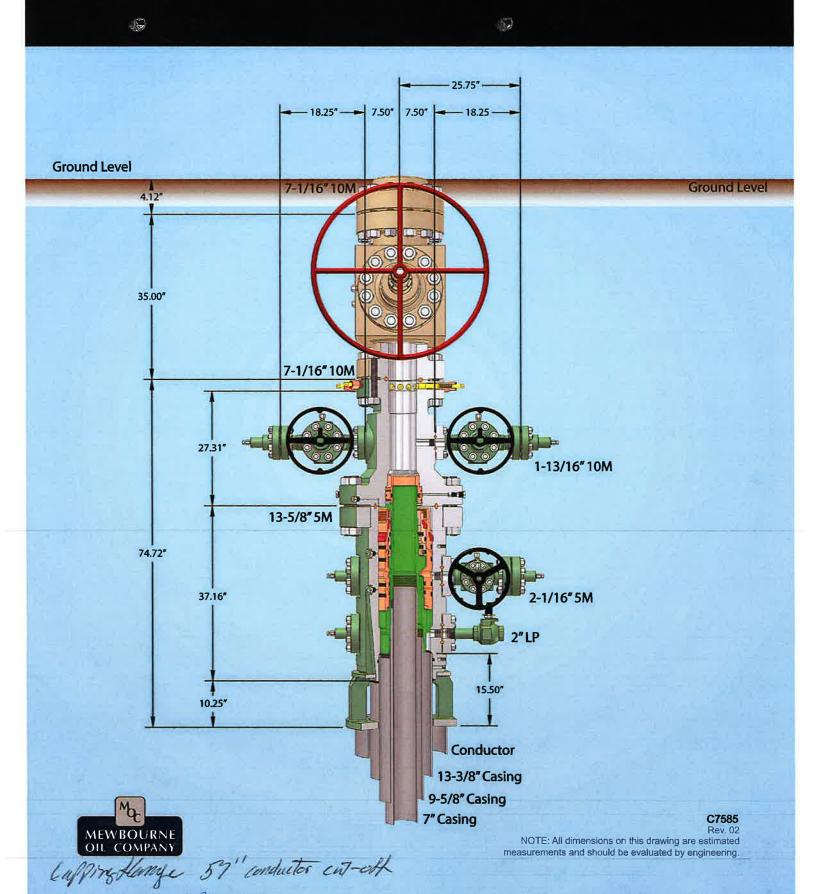


Figure 6. Vault 5M wellhead with BOP quick connect

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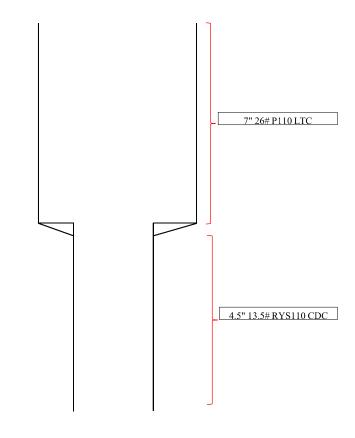


13-5/8" MN-DS Wellhead System



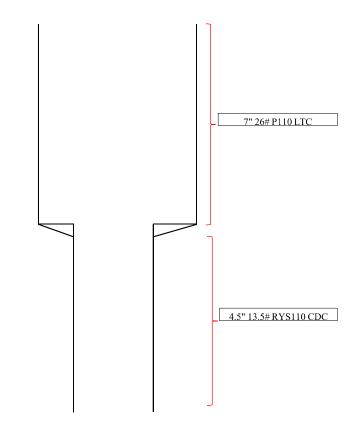
Sec 22, T25S, R28E SHL: 1055' FNL & 250' FEL (Sec 22) BHL: 1650' FNL & 100' FEL (Sec 24)

Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	8153'		7" 26# P110 LTC		1.52	2.43	3.27	3.92	
8.5	8153'	19450'	4.5" 13	4.5" 13.5# RYS110 CDC HTQ		1.93	2.25	2.81	2.77	



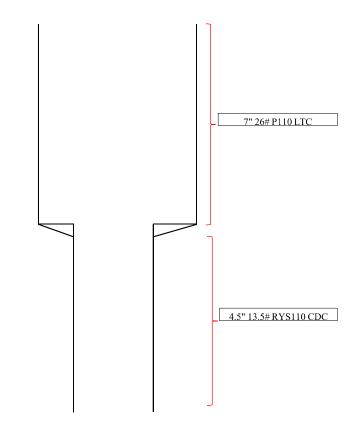
Sec 22, T25S, R28E SHL: 1055' FNL & 250' FEL (Sec 22) BHL: 1650' FNL & 100' FEL (Sec 24)

Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	8153'		7" 26# P	110 LTC		1.52	2.43	3.27	3.92
8.5	8153'	19450'	4.5" 13.5# RYS110 CDC HTQ		1.93	2.25	2.81	2.77		



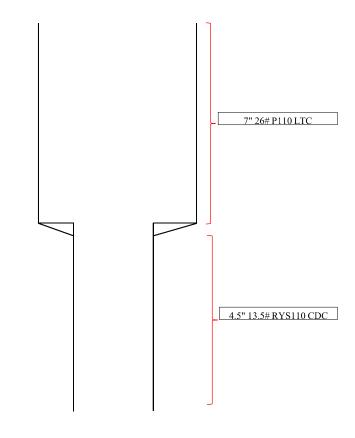
Sec 22, T25S, R28E SHL: 1055' FNL & 250' FEL (Sec 22) BHL: 1650' FNL & 100' FEL (Sec 24)

Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	8153'		7" 26# P110 LTC		1.52	2.43	3.27	3.92	
8.5	8153'	19450'	4.5" 13	4.5" 13.5# RYS110 CDC HTQ		1.93	2.25	2.81	2.77	



Sec 22, T25S, R28E SHL: 1055' FNL & 250' FEL (Sec 22) BHL: 1650' FNL & 100' FEL (Sec 24)

Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	8153'		7" 26# P110 LTC		1.52	2.43	3.27	3.92	
8.5	8153'	19450'	4.5" 13	4.5" 13.5# RYS110 CDC HTQ		1.93	2.25	2.81	2.77	



■Tenaris

API STC

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

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

Pipe Body Data

Geometry			
Nominal OD	13,375 in.	Drift	12,559 in.
Wall Thickness	0.330 in.	Plain End Weight	46.02 lb/ft
Nominal Weight	48 lb/ft	OD Tolerance	API
Nominal ID	12.715 in.		

Performance	
SMYS	40,000 psi
Min UTS	60,000 psi
Body Yield Strength	541 x1000 lb
Min. Internal Yield Pressure	1730 psi
Collapse Pressure	740 psi
Max. Allowed Bending	14 °/100 ft

Connection Data

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

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition,

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 Coupling
 Pipe Body

 Grade: J55 (Casing)
 Grade: J55 (Casing)

 Body: Bright Green
 1st Band: Bright Green

 1st Band: White
 2nd Band:

 2nd Band: 3rd Band:

 3rd Band: 4th Band:

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

Pipe Body Data

Geometry			
Nominal OD	9.625 in.	Drift	8.765 in.
Wall Thickness	0.352 in.	Plain End Weight	34.89 lb/ft
Nominal Weight	36 lb/ft	OD Tolerance	API
Nominal ID	8.921 in.		

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	564 x1000 lb
Min. Internal Yield Pressure	3520 psi
Collapse Pressure	2020 psi
Max. Allowed Bending	26 °/100 ft

Connection Data

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

Notes

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

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

Pipe Body Data

Geometry			
Nominal OD	7.000 in.	Drift	6.151 in.
Wall Thickness	0.362 in.	Plain End Weight	25.69 lb/ft
Nominal Weight	26 lb/ft	OD Tolerance	API
Nominal ID	6.276 in.		

110,000 psi
125,000 psi
830 x1000 lb
9960 psi
6230 psi
72 °/100 ft

Connection Data

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

Notes

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

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

Pipe Body Data

Geometry			
Nominal OD	4.500 in.	Drift	3.795 in.
Wall Thickness	0.290 in.	Plain End Weight	13.05 lb/ft
Nominal Weight	13.500 lb/ft	OD Tolerance	API
Nominal ID	3.920 in.		

psi
psi
0 lb
psi
psi
00 ft

Connection Data

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

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

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Mewbourne Oil Company, Oxbow 23/24 Fed Com 853H Sec 22, T25S, R28E

SHL: 1035' FNL 250' FEL (Sec 22) BHL: 1430' FNL 330' FEL (Sec 24)

Well Location GL: 2995'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 1035' FNL & 250' FEL (Sec 22)	State	NENE	22	25S	28E	Eddy	32.1198849	- 104.0672955	0'	0'
KOP	KOP: 1430' FNL & 243' FEL (Sec 22)	State	SENE	22	25S	28E	Eddy	32.1187998	- 104.0672748	9,930'	9,938'
FTP	FTP: 1430' FNL & 330' FWL (Sec 23)	NMNM013413	SWNW	23	25S	28E	Eddy	32.1188125	- 104.0654245	10,503'	10,838'
PPP2	PPP2: 1458' FNL & 2643' FWL (Sec 24)	NMNM117118	SWNE	24	25S	28E	Eddy	32.1187637	- 104.0408081	10,641'	18,460'
PPP3	PPP3: 1442' FNL & 1322' FEL (Sec 24)	NMNM088128	SENE	24	25S	28E	Eddy	32.1187547	- 104.0365399	10,665'	19,782'
BHL	BHL: 1430' FNL & 330' FEL (Sec 24)	NMNM088128	SENE	24	25S	28E	Eddy	32.1187479	- 104.0333372	10,683'	20,774'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler				Yeso			
Castile				Delaware (Lamar)	2580'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	1070'	Salt	None	Bell Canyon	2615'	Sandstone	Oil/Natural Gas
Marker Bed 126				Cherry Canyon	3460'	Sandstone	Oil/Natural Gas
Salt Base	2380'	Salt	None	Manzanita Marker	3600'	Limestone	Oil/Natural Gas
Yates				Basal Brushy Canyon			
Seven Rivers				Bone Spring	6300'	Limestone	Oil/Natural Gas
Queen				1st Bone Spring	7200'	Sandstone	Oil/Natural Gas
Capitan				2nd Bone Spring	8010'	Sandstone	Oil/Natural Gas
Grayburg				3rd Bone Spring	9120'	Sandstone	Oil/Natural Gas
San Andres				Wolfcamp	9530'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Төр MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	900'	900'	13.375" 48# H40 STC	1.91	4.30	7.45	12.52
Intermediate	12.25"	0'	0'	2500'	2500'	9.625" 36# J55 LTC	1.53	2.65	5.03	6.27
Production	8.75"	0'	0'	9938'	9930'	7" 26# P110 LTC	1.24	1.99	2.68	3.21
Liner	6.125"	9738'	9785'	20774'	10683'	4.5" 13.5# P110 LTC	1.60	1.86	2.27	2.83

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

Is easing new? If used, attach certification as required in Onshore Order #1 Is easing API approved? If no, attach easing specification sheet. Is premium or uncommon easing planned? If yes attach easing specification sheet. Is premium or uncommon easing planned? If yes attach easing specification sheet. No Does the above easing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, easing design criteria). Ye will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the easing? Ye will located within Capitan Reef? If yes, does production easing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary. No If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous easing? If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous easing? If yes, are the first three strings cemented to surface? Is 2 rd 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, see cement design. Is an engineered weak point used to satisfy R-111-Q? If yes, at what depth is the weak point planned? If yes, are there two strings cemented to surface? If yes, are there two strings cemented to surface?		77 37
Is casing API approved? If no, attach casing specification sheet. Is premium or uncommon casing planned? If yes attach casing specification sheet. Noes the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). Yell the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? Yell the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? Yell the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? Yell the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? If yes, does production casing cement tie back a minimum of 50' above the Reef? Is well located in SOPA but not in R-111-Q? If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? If yes, are the first 2 strings cemented to surface? Is 2 rd 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? If yes, at what depth is the weak point planned? Is well located in high Cave/Karst? In yes, are there two strings cemented to surface?		Y or N
Is premium or uncommon casing planned? If yes attach casing specification sheet. 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? Is well located within Capitan Reef? Is well within the designated 4 string boundary. Is well within the designated 4 string boundary. Is well located in SOPA but not in R-111-Q? If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? If yes, are the first three strings cemented to surface? Is 2 rd 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? In yes, are there two strings cemented to surface?		
Does the above easing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? Is well located within Capitan Reef? If yes, does production easing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary. No If yes, are the first 2 strings cemented to surface and 3 of string cement tied back 500' into previous easing? If yes, are the first 12 strings cemented to surface and 3 of string cement tied back 500' into previous easing? If yes, are the first three strings cemented to surface? Is a poll located in R-111-Q and SOPA? If yes, are the first three strings cemented to surface? 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? No No No No No No No No No N		Y
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If yes, are the first three strings cemented to surface? Is 2 nd string set 100' to 600' below the base of salt? Is an open annulus used to satisfy R-111-Q? If yes, see cement design. Is an engineered weak point used to satisfy R-111-Q? If yes, at what depth is the weak point planned? Is well located in high Cave/Karst? N If yes, are there two strings cemented to surface?	If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
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If yes, at what depth is the weak point planned? Is well located in high Cave/Karst? If yes, are there two strings cemented to surface?	Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is well located in high Cave/Karst? If yes, are there two strings cemented to surface?	ls an engineered weak point used to satisfy R-111-Q?	
If yes, are there two strings cemented to surface?	If yes, at what depth is the weak point planned?	
If yes, are there two strings cemented to surface?		
	ls well located in high Cave/Karst?	N
(For 2 string wells) If yes, is there a contingency easing if lost circulation occurs?	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?	Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Oxbow 23/24 Fed Com 853H Sec 22, T25S, R28E

SHL: 1035' FNL 250' FEL (Sec 22) BHL: 1430' FNL 330' FEL (Sec 24)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	TOC/BOC	Volume, ft ³	% Excess	Slurry Description		
13.375 in	LEAD	470	12.5	2.12	0' - 710'	1000	100%	Class C: Salt, Gel, Extender, LCM		
13.375 III	TAIL	200	14.8	1.34	710' - 900'	268	10076	Class C: Retarder		
9.625 in	LEAD	330	12.5	2.12	0' - 1808'	700	25%	Class C: Salt, Gel, Extender, LCM		
9.025 III	TAIL	200	14.8	1.34	1808' - 2500'	268	2376	Class C: Retarder		
1st Stg 7 in	LEAD	340	12.5	2.12	3600' - 7449'	730	25%	Class C: Salt, Gel, Extender, LCM, Defoamer		
1st Stg / III	TAIL	400	15.6	1.18	7449' - 9938'	472	2376	Class H: Retarder, Fluid Loss, Defoamer		
7" DV Tool @ 3600'										
2-164-51-	LEAD	50	12.5	2.12	2300' - 2886'	110	25%	Class C: Salt, Gel, Extender, LCM, Defoamer		
2nd Stg 7 in	TAIL	100	14.8	1.34	2886' - 3600'	134	25%	Class C: Retarder, Fluid Loss, Defoamer		
4.5 in	LEAD	710	13.5	1.85	9738' - 20774'	1320	25%	Class II. Sait, Gel, Fluid Loss, Retarder, Dispersant, Deloanier, Anti-		

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Туре			Tested to:	Rating Depth
		5M	Annular		X	2500#/3500#	
			Blind Ram		X		20,774'
12.25	12.25 13.375	13.375 5M	Pipe Ram		X	5000#	
			Double Ram			3000#	
			Other*				

^{*}Specify if additional ram is utilized.

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

Variance Request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Y	Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt., lb/gal	Mud Type
0' - 900'	8.4 - 8.6	Fresh Water
900' - 2500'	10.0 - 10.2	Brine
2500' - 10650'	8.6 - 9.7	Cut-Brine
10650' - 20774'	10.0 - 12.	OBM

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Vhat will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
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Mewbourne Oil Company, Oxbow 23/24 Fed Com 853H

Sec 22, T25S, R28E SHL: 1035' FNL 250' FEL (Sec 22) BHL: 1430' FNL 330' FEL (Sec 24)

Logging and Testing Procedures

Logging	z, Coring and Testing.
	Will run GR/CNL from KOP (9938') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No logs are planned based on well control or offset log information. Offset Well: Oxbow 23/24 Fed Com #874H
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

Caliper		Cement Bond Log	CNL/FDC
Compensated Densilog		Compensated Neutron Log	Computer Generated Log
Dip Meter Log	V	Directional Survey	Dual Induction/Microresistivity
Dual Lateral Log/Microspherically Focused		Electric Log	Formation Density Compensated Log
Gamma Ray Log	V	Measurement While Drilling	Mud Log/Geological Lithology Log
Other		Porosity-Resistivity Log	Sidewall Neutron Log
Sonic Log		Spontaneous Potential Log	Temperature Log

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6666 psi
BH Temperature	165
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions, Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
Y	H2S Plan attached

Mewbourne Oil Company, Oxbow 23/24 Fed Com 853H Sec 22, T25S, R28E

SHL: 1035' FNL 250' FEL (Sec 22) BHL: 1430' FNL 330' FEL (Sec 24)

Other facets of operation

Mewbourne Oil Company also requests approval to implement additional designs as described below &/or in other attachments. BLM will be notified of elected design.

Offline Cementing Variance: Variance is requested to perform offline cementing according to the attached procedure. R-111Q: Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash.

		Casing Progr	am Design B			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	17.5"	0'	0'	900'	900'	13.375" 48# H40 STC	1.91	4.30	7.45	12.52
Intermediate	12.25"	0'	0'	2500'	2500'	9.625" 36# J55 LTC	1.53	2.65	5.03	6.27
Production	8.75"	0'	0'	10650'	10472'	7" 26# P110 LTC	1.18	1.88	2.50	3.00
Liner	6.125"	9938'	9930'	20774'	10683'	4.5" 13.5# P110 LTC	1.60	1.86	2.31	2.88

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

An easing strings will be tested in accordance with 45 CFR 1 art 51/2. Must have table for contingency easing.	
	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 st string cement tied back 500° into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	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?	- 1

Design B - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	TOC/BOC	Volume, ft ³	% Excess	Slurry Description		
13,375 in	LEAD	470	12.5	2.12	0' - 710'	1000	100%	Class C: Salt, Gel, Extender, LCM		
13.375 III	TAIL	200	14.8	1.34	710' - 900'	268	100%	Class C: Retarder		
9.625 in	LEAD	330	12.5	2.12	0' - 1808'	700	25%	Class C: Salt, Gel, Extender, LCM		
9.025 III	TAIL	200	14.8	1.34	1808' - 2500'	268	2376	Class C: Retarder		
1-4-04 7-1	LEAD	350	12.5	2.12	3600' - 7546'	750	25%	Class H: Salt, Gel, Extender, LCM, Defoamer		
1st Stg 7 in	TAIL	500	15.6	1.18	7546' - 10650'	590	23%	Class H: Retarder, Fluid Loss, Defoamer		
					7'	' DV Tool @ 3600'				
2nd Sta 7 in	LEAD	50	12.5	2.12	2300' - 2886'	110	25%	Class C: Salt, Gel, Extender, LCM, Defoamer		
2nd Stg 7 in	TAIL	100	14.8	1.34	2886' - 3600'	134	23%	Class C: Retarder, Fluid Loss, Defoamer		
4.5 in	LEAD	690	13.5	1.85	9938' - 20774'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent		

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Oxbow 23/24 Fed Com #853H

Sec 22, T25S, R28E

SHL: 1035' FNL & 250' FEL (Sec 22) BHL: 1430' FNL & 330' FEL (Sec 24)

Plan: Design #1

Standard Planning Report

14 January, 2025

Hobbs Database:

Wellbore:

Site

Company: Mewbourne Oil Company Project: Eddy County, New Mexico NAD 83

Oxbow 23/24 Fed Com #853H Site:

Well: Sec 22, T25S, R28E

Design #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H

WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

Minimum Curvature

Project Eddy County, New Mexico NAD 83

Map System: US State Plane 1983 North American Datum 1983 Geo Datum:

New Mexico Eastern Zone Map Zone:

System Datum: Ground Level

Oxbow 23/24 Fed Com #853H

BHL: 1430' FNL & 330' FEL (Sec 24)

Northing: 407,451.90 usft Site Position: 32.1198849 Latitude: From: Мар Easting: 623,698.70 usft Longitude: -104.0672955

0.0 usft Slot Radius: 13-3/16 **Position Uncertainty:**

Well Sec 22, T25S, R28E

Well Position +N/-S 0.0 usft 407,451.90 usft Latitude: 32.1198849 Northing: +E/-W 0.0 usft Easting: 623,698.70 usft Longitude: -104.0672955 0.0 usft Wellhead Elevation: 2,995.0 usft

3,023.0 usft Ground Level: **Position Uncertainty**

Grid Convergence: 0.14°

Wellbore BHL: 1430' FNL & 330' FEL (Sec 24)

Field Strength Magnetics **Model Name** Sample Date Declination Dip Angle (°) (nT) (°) IGRF2010 12/31/2014 7.37 59.92 48,124.00939052

Design Design #1

Audit Notes:

PROTOTYPE Version: Phase: Tie On Depth: 0.0

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 92.10 0.0 0.0 0.0

1/14/2025 Plan Survey Tool Program Date

Depth From Depth To

(usft) (usft) Survey (Wellbore) **Tool Name** Remarks

0.0 20,774.2 Design #1 (BHL: 1430' FNL & 330

lan 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	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,026.9	2.54	178.93	1,026.9	-2.8	0.1	2.00	2.00	0.00	178.93	
9,811.8	2.54	178.93	9,803.1	-391.9	7.3	0.00	0.00	0.00	0.00	
9,938.7	0.00	0.00	9,930.0	-394.7	7.4	2.00	-2.00	0.00	180.00	KOP: 1430' FNL & 24:
10,828.5	88.96	89.95	10,503.0	-394.2	570.1	10.00	10.00	0.00	89.95	
20,774.2	88.96	89.95	10,683.0	-386.0	10,514.1	0.00	0.00	0.00	0.00	BHL: 1430' FNL & 330

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Oxbow 23/24 Fed Com #853H

 Well:
 Sec 22, T25S, R28E

 Wellbore:
 BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

Grid

ned 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: 1035'	' FNL & 250' FEL (Sec 22)							
50.0	0.00	0.00	50.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
050.0	0.00		252.2	0.0	0.0	0.0	0.00	0.00	0.00
250.0		0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0		0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0		0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0		0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
550.0		0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0		0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
650.0		0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0		0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
750.0		0.00	750.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0		0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
850.0	0.00	0.00	850.0	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
950.0	1.00	178.93	950.0	-0.4	0.0	0.0	2.00	2.00	0.00
1,000.0	2.00	178.93	1.000.0	-1.7	0.0	0.1	2.00	2.00	0.00
1,000.0		178.93	1,000.0	-1.7 -2.8	0.0		2.00	2.00	0.00
,						0.2			
1,050.0		178.93	1,049.9	-3.8	0.1	0.2	0.00	0.00	0.00
1,100.0		178.93	1,099.9	-6.0	0.1	0.3	0.00	0.00	0.00
1,150.0	2.54	178.93	1,149.8	-8.3	0.2	0.5	0.00	0.00	0.00
1,200.0	2.54	178.93	1,199.8	-10.5	0.2	0.6	0.00	0.00	0.00
1,250.0	2.54	178.93	1,249.7	-12.7	0.2	0.7	0.00	0.00	0.00
1,300.0	2.54	178.93	1,299.7	-14.9	0.3	0.8	0.00	0.00	0.00
1,350.0	2.54	178.93	1,349.6	-17.1	0.3	0.9	0.00	0.00	0.00
1,400.0		178.93	1,399.6	-19.3	0.4	1.1	0.00	0.00	0.00
1,450.0		178.93	1,449.5	-21.5	0.4	1.2	0.00	0.00	0.00
1,500.0		178.93	1,499.5	-23.8	0.4	1.3	0.00	0.00	0.00
1,550.0		178.93	1,549.4	-26.0	0.5	1.4	0.00	0.00	0.00
1,600.0		178.93	1,599.4	-28.2	0.5	1.6	0.00	0.00	0.00
1,650.0	2.54	178.93	1,649.3	-30.4	0.6	1.7	0.00	0.00	0.00
1,700.0	2.54	178.93	1,699.3	-32.6	0.6	1.8	0.00	0.00	0.00
1,750.0		178.93	1,749.2	-34.8	0.7	1.9	0.00	0.00	0.00
1,800.0		178.93	1,799.2	-37.1	0.7	2.1	0.00	0.00	0.00
1,850.0		178.93	1,849.2	-39.3	0.7	2.2	0.00	0.00	0.00
1,900.0		178.93	1,899.1	-41.5	0.8	2.3	0.00	0.00	0.00
1,950.0		178.93	1,949.1	-43.7	0.8	2.4	0.00	0.00	0.00
2,000.0		178.93	1,999.0	-45.9	0.9	2.5	0.00	0.00	0.00
2,050.0		178.93	2,049.0	-48.1	0.9	2.7	0.00	0.00	0.00
2,100.0		178.93	2,098.9	-50.3	0.9	2.8	0.00	0.00	0.00
2,150.0	2.54	178.93	2,148.9	-52.6	1.0	2.9	0.00	0.00	0.00
2,200.0	2.54	178.93	2,198.8	-54.8	1.0	3.0	0.00	0.00	0.00
2,250.0		178.93	2,196.6	-54.6 -57.0	1.0	3.0	0.00	0.00	0.00
2,300.0		178.93	2,298.7	-59.2	1.1	3.3	0.00	0.00	0.00
2,350.0		178.93	2,348.7	-61.4	1.2	3.4	0.00	0.00	0.00
2,400.0	2.54	178.93	2,398.6	-63.6	1.2	3.5	0.00	0.00	0.00
2,450.0	2.54	178.93	2,448.6	-65.8	1.2	3.6	0.00	0.00	0.00
2,500.0		178.93	2,498.5	-68.1	1.3	3.8	0.00	0.00	0.00
2,550.0		178.93	2,548.5	-70.3	1.3	3.9	0.00	0.00	0.00

Database: Hobbs

Company:Mewbourne Oil CompanyProject:Eddy County, New Mexico NAD 83Site:Oxbow 23/24 Fed Com #853H

 Well:
 Sec 22, T25S, R28E

 Wellbore:
 BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

Grid

Planned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
2,600.0	2.54	178.93	2,598.4	-72.5	1.4	4.0	0.00	0.00	0.00
2,650.0	2.54	178.93	2,648.4	-74.7	1.4	4.1	0.00	0.00	0.00
2,700.0	2.54	178.93	2,698.3	-76.9	1.4	4.3	0.00	0.00	0.00
2,750.0	2.54	178.93	2,748.3	-79.1	1.5	4.4	0.00	0.00	0.00
2,800.0	2.54	178.93	2,798.2	-81.3	1.5	4.5	0.00	0.00	0.00
2,850.0	2.54	178.93	2,848.2	-83.6	1.6	4.6	0.00	0.00	0.00
2,900.0	2.54	178.93	2,898.1	-85.8	1.6	4.8	0.00	0.00	0.00
2,950.0	2.54			-88.0	1.0		0.00	0.00	0.00
2,950.0 3,000.0	2.54 2.54	178.93 178.93	2,948.1 2,998.0	-88.0 -90.2	1.6	4.9 5.0	0.00 0.00	0.00 0.00	0.00 0.00
3,050.0	2.54	178.93	3,048.0	-90.2 -92.4	1.7 1.7	5.0	0.00	0.00	0.00
3,100.0	2.54	178.93	3,048.0	-92.4 -94.6	1.8	5.2	0.00	0.00	0.00
3,150.0	2.54	178.93	3,147.9	-96.8	1.8	5.4	0.00	0.00	0.00
3,200.0	2.54	178.93	3,197.8	-99.1	1.9	5.5	0.00	0.00	0.00
3,250.0	2.54	178.93	3,247.8	-101.3	1.9	5.6	0.00	0.00	0.00
3,300.0	2.54	178.93	3,297.7	-103.5	1.9	5.7	0.00	0.00	0.00
3,350.0	2.54	178.93 178.93	3,347.7 3,397.6	-105.7 107.9	2.0	5.9 6.0	0.00	0.00 0.00	0.00
3,400.0	2.54		3,397.6	-107.9	2.0	6.0	0.00		0.00
3,450.0	2.54	178.93	3,447.6	-110.1	2.1	6.1	0.00	0.00	0.00
3,500.0	2.54	178.93	3,497.5	-112.3	2.1	6.2	0.00	0.00	0.00
3,550.0	2.54	178.93	3,547.5	-114.6	2.1	6.3	0.00	0.00	0.00
3,600.0	2.54	178.93	3,597.4	-116.8	2.2	6.5	0.00	0.00	0.00
3,650.0	2.54	178.93	3,647.4	-119.0	2.2	6.6	0.00	0.00	0.00
3,700.0	2.54	178.93	3,697.3	-121.2	2.3	6.7	0.00	0.00	0.00
3,750.0	2.54	178.93	3,747.3	-123.4	2.3	6.8	0.00	0.00	0.00
3,800.0	2.54	178.93	3,797.2	-125.6	2.4	7.0	0.00	0.00	0.00
3,850.0	2.54	178.93	3,847.2	-127.8	2.4	7.1	0.00	0.00	0.00
3,900.0	2.54	178.93	3,897.1	-130.1	2.4	7.2	0.00	0.00	0.00
3,950.0	2.54	178.93	3,947.1	-132.3	2.5	7.3	0.00	0.00	0.00
4,000.0	2.54	178.93	3,997.0	-134.5	2.5	7.5 7.5	0.00	0.00	0.00
4,050.0	2.54	178.93	4,047.0	-136.7	2.6	7.6	0.00	0.00	0.00
4,100.0	2.54	178.93	4,096.9	-138.9	2.6	7.7	0.00	0.00	0.00
4,150.0	2.54	178.93	4,146.9	-141.1	2.6	7.8	0.00	0.00	0.00
4,200.0	2.54	178.93	4,196.8	-143.3	2.7	7.9	0.00	0.00	0.00
4,250.0	2.54	178.93	4,246.8	-145.6	2.7	8.1	0.00	0.00	0.00
4,300.0	2.54	178.93	4,296.7	-147.8 150.0	2.8	8.2	0.00	0.00	0.00
4,350.0 4,400.0	2.54 2.54	178.93 178.93	4,346.7 4,396.6	-150.0 -152.2	2.8 2.9	8.3 8.4	0.00 0.00	0.00 0.00	0.00 0.00
4,450.0	2.54	178.93	4,446.6	-154.4	2.9	8.6	0.00	0.00	0.00
4,500.0	2.54	178.93	4,496.5	-156.6	2.9	8.7	0.00	0.00	0.00
4,550.0	2.54	178.93	4,546.5	-158.8	3.0	8.8	0.00	0.00	0.00
4,600.0	2.54	178.93	4,596.5	-161.1	3.0	8.9	0.00	0.00	0.00
4,650.0	2.54	178.93	4,646.4	-163.3	3.1	9.0	0.00	0.00	0.00
4,700.0	2.54	178.93	4,696.4	-165.5	3.1	9.2	0.00	0.00	0.00
4,750.0	2.54	178.93	4,746.3	-167.7	3.1	9.3	0.00	0.00	0.00
4,800.0	2.54	178.93	4,796.3	-169.9	3.2	9.4	0.00	0.00	0.00
4,850.0	2.54	178.93	4,846.2	-172.1	3.2	9.5	0.00	0.00	0.00
4,900.0	2.54	178.93	4,896.2	-174.3	3.3	9.7	0.00	0.00	0.00
4,950.0	2.54	178.93	4,946.1	-176.6	3.3	9.8	0.00	0.00	0.00
5,000.0	2.54	178.93	4,996.1	-178.8	3.4	9.9	0.00	0.00	0.00
5,050.0	2.54	178.93	5,046.0	-181.0	3.4	10.0	0.00	0.00	0.00
5,100.0	2.54	178.93	5,096.0	-183.2	3.4	10.2	0.00	0.00	0.00
5,150.0	2.54	178.93	5,145.9	-185.4	3.5	10.3	0.00	0.00	0.00
5,200.0	2.54	178.93	5,195.9	-187.6	3.5	10.4	0.00	0.00	0.00
5,250.0	2.54	178.93	5,245.8	-189.8	3.6	10.5	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Oxbow 23/24 Fed Com #853H

Well: Sec 22, T25S, R28E

Wellbore: BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

Grid

esign:	Design #1								
anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	2.54	178.93	5,295.8	-192.1	3.6	10.6	0.00	0.00	0.00
5,350.0	2.54	178.93	5,345.7	-194.3	3.6	10.8	0.00	0.00	0.00
5,400.0	2.54	178.93	5,395.7	-196.5	3.7	10.9	0.00	0.00	0.00
5,450.0	2.54	178.93	5,445.6	-198.7	3.7	11.0	0.00	0.00	0.00
5,500.0	2.54	178.93	5,495.6	-200.9	3.8	11.1	0.00	0.00	0.00
5,550.0	2.54	178.93	5,545.5	-203.1	3.8	11.3	0.00	0.00	0.00
5,600.0	2.54	178.93	5,595.5	-205.4	3.9	11.4	0.00	0.00	0.00
5,650.0	2.54	178.93	5,645.4	-207.6	3.9	11.5	0.00	0.00	0.00
5,700.0	2.54	178.93	5,695.4	-209.8	3.9	11.6	0.00	0.00	0.00
5,750.0	2.54	178.93	5,745.3	-212.0	4.0	11.7	0.00	0.00	0.00
5,800.0	2.54	178.93	5,795.3	-214.2	4.0	11.9	0.00	0.00	0.00
5,850.0	2.54	178.93	5,845.2	-216.4	4.1	12.0	0.00	0.00	0.00
5,900.0	2.54	178.93	5,895.2	-218.6		12.1	0.00	0.00	0.00
ŕ					4.1				
5,950.0	2.54	178.93	5,945.1	-220.9	4.1	12.2	0.00	0.00	0.00
6,000.0	2.54	178.93	5,995.1	-223.1	4.2	12.4	0.00	0.00	0.00
6,050.0	2.54	178.93	6,045.0	-225.3	4.2	12.5	0.00	0.00	0.00
6,100.0	2.54	178.93	6,095.0	-227.5	4.3	12.6	0.00	0.00	0.00
6,150.0	2.54	178.93	6,144.9	-229.7	4.3	12.7	0.00	0.00	0.00
6,200.0	2.54	178.93	6,194.9	-231.9	4.3	12.9	0.00	0.00	0.00
6,250.0	2.54	178.93	6,244.8	-234.1	4.4	13.0	0.00	0.00	0.00
6,300.0	2.54	178.93	6,294.8	-236.4	4.4	13.1	0.00	0.00	0.00
6,350.0	2.54	178.93	6,344.7	-238.6	4.5	13.2	0.00	0.00	0.00
6,400.0	2.54	178.93	6,394.7	-240.8	4.5	13.3	0.00	0.00	0.00
6,450.0	2.54	178.93	6,444.6	-243.0	4.6	13.5	0.00	0.00	0.00
6,500.0	2.54	178.93	6,494.6	-245.2	4.6	13.6	0.00	0.00	0.00
6,550.0	2.54	178.93	6,544.5	-247.4	4.6	13.7	0.00	0.00	0.00
6,600.0	2.54	178.93	6,594.5	-249.6	4.7	13.8	0.00	0.00	0.00
6,650.0	2.54	178.93	6,644.4	-251.9	4.7	14.0	0.00	0.00	0.00
6,700.0	2.54	178.93	6,694.4	-254.1	4.8	14.1	0.00	0.00	0.00
6,750.0	2.54	178.93	6,744.3	-256.3	4.8	14.2	0.00	0.00	0.00
6,800.0	2.54	178.93	6,794.3	-258.5	4.8	14.3	0.00	0.00	0.00
6,850.0	2.54	178.93	6,844.2	-260.7	4.9	14.4	0.00	0.00	0.00
6,900.0	2.54	178.93	6,894.2	-262.9	4.9	14.6	0.00	0.00	0.00
6,950.0	2.54	178.93	6.944.1	-265.1	5.0	14.7	0.00	0.00	0.00
7,000.0	2.54	178.93	6,994.1	-267.4	5.0	14.7	0.00	0.00	0.00
7,050.0	2.54	178.93	7,044.0	-269.6	5.1	14.9	0.00	0.00	0.00
7,100.0	2.54	178.93	7,094.0	-271.8 271.8	5.1	15.1	0.00	0.00	0.00
7,150.0	2.54	178.93	7,143.9	-274.0	5.1	15.2	0.00	0.00	0.00
7,200.0	2.54	178.93	7,193.9	-276.2	5.2	15.3	0.00	0.00	0.00
7,250.0	2.54	178.93	7,243.8	-278.4	5.2	15.4	0.00	0.00	0.00
7,300.0	2.54	178.93	7,293.8	-280.6	5.3	15.6	0.00	0.00	0.00
7,350.0	2.54	178.93	7,343.8	-282.9	5.3	15.7	0.00	0.00	0.00
7,400.0	2.54	178.93	7,393.7	-285.1	5.3	15.8	0.00	0.00	0.00
7.450.0	2.54	178.93	7,443.7	-287.3	5.4	15.9	0.00	0.00	0.00
7,430.0 7.500.0	2.54	178.93	7,443.7 7,493.6	-289.5	5.4	16.0	0.00	0.00	0.00
7,500.0 7,550.0									
	2.54	178.93	7,543.6	-291.7	5.5	16.2	0.00	0.00	0.00
7,600.0 7,650.0	2.54 2.54	178.93 178.93	7,593.5 7,643.5	-293.9 -296.1	5.5 5.6	16.3 16.4	0.00	0.00	0.00 0.00
	2.54			-296.1	5.6	16.4	0.00	0.00	
7,700.0	2.54	178.93	7,693.4	-298.4	5.6	16.5	0.00	0.00	0.00
7,750.0	2.54	178.93	7,743.4	-300.6	5.6	16.7	0.00	0.00	0.00
7,800.0	2.54	178.93	7,793.3	-302.8	5.7	16.8	0.00	0.00	0.00
7,850.0	2.54	178.93	7,843.3	-305.0	5.7	16.9	0.00	0.00	0.00
7,900.0	2.54	178.93	7,893.2	-307.2	5.8	17.0	0.00	0.00	0.00
			*						

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Oxbow 23/24 Fed Com #853H

Well: Sec 22, T25S, R28E

Wellbore: BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,000.0	2.54	178.93	7,993.1	-311.6	5.8	17.3	0.00	0.00	0.00
8,050.0	2.54	178.93	8,043.1	-313.9	5.9	17.4	0.00	0.00	0.00
8,100.0	2.54	178.93	8,093.0	-316.1	5.9	17.5	0.00	0.00	0.00
8,150.0	2.54	178.93	8,143.0	-318.3	6.0	17.6	0.00	0.00	0.00
8,200.0	2.54	178.93	8,192.9	-320.5	6.0	17.8	0.00	0.00	0.00
8,250.0	2.54	178.93	8,242.9	-322.7	6.1	17.9	0.00	0.00	0.00
8,300.0	2.54	178.93	8,292.8	-324.9	6.1	18.0	0.00	0.00	0.00
8,350.0	2.54	178.93	8,342.8	-327.1	6.1	18.1	0.00	0.00	0.00
8,400.0	2.54	178.93	8,392.7	-329.4	6.2	18.3	0.00	0.00	0.00
8,450.0	2.54	178.93	8,442.7	-331.6	6.2	18.4	0.00	0.00	0.00
8,500.0	2.54	178.93	8,492.6	-333.8	6.3	18.5	0.00	0.00	0.00
8,550.0	2.54	178.93	8,542.6	-336.0	6.3	18.6	0.00	0.00	0.00
8,600.0	2.54	178.93	8,592.5	-338.2	6.3	18.7	0.00	0.00	0.00
			·						
8,650.0	2.54	178.93	8,642.5	-340.4	6.4	18.9	0.00	0.00	0.00
8,700.0	2.54	178.93	8,692.4	-342.6	6.4	19.0	0.00	0.00	0.00
8,750.0	2.54	178.93	8,742.4	-344.9	6.5	19.1	0.00	0.00	0.00
8,800.0	2.54	178.93	8,792.3	-347.1	6.5	19.2	0.00	0.00	0.00
8,850.0	2.54	178.93	8,842.3	-349.3	6.5	19.4	0.00	0.00	0.00
8,900.0	2.54	178.93	8,892.2	-351.5	6.6	19.5	0.00	0.00	0.00
8,950.0	2.54	178.93	8,942.2	-353.7	6.6	19.6	0.00	0.00	0.00
9,000.0	2.54	178.93	8,992.1	-355.9	6.7	19.7	0.00	0.00	0.00
9,050.0	2.54	178.93	9,042.1	-358.2	6.7	19.9	0.00	0.00	0.00
9,100.0	2.54	178.93	9,092.0	-360.4	6.8	20.0	0.00	0.00	0.00
9,150.0	2.54	178.93	9,142.0	-362.6	6.8	20.1	0.00	0.00	0.00
9,200.0	2.54	178.93	9,191.9	-364.8	6.8	20.2	0.00	0.00	0.00
9,250.0	2.54	178.93	9,241.9	-367.0	6.9	20.3	0.00	0.00	0.00
9,300.0	2.54	178.93	9,291.8	-369.2	6.9	20.5	0.00	0.00	0.00
9,350.0	2.54	178.93	9,341.8	-371.4	7.0	20.6	0.00	0.00	0.00
9,400.0	2.54	178.93	9,391.7	-373.7	7.0	20.7	0.00	0.00	0.00
9,450.0	2.54	178.93	9,441.7	-375.9	7.0	20.8	0.00	0.00	0.00
9,500.0	2.54	178.93	9,491.6	-378.1	7.1	21.0	0.00	0.00	0.00
9,550.0	2.54	178.93	9,541.6	-380.3	7.1	21.1	0.00	0.00	0.00
9,600.0	2.54	178.93	9,591.5	-382.5	7.2	21.2	0.00	0.00	0.00
9,650.0	2.54	178.93	9,641.5	-384.7	7.2	21.3	0.00	0.00	0.00
9,700.0	2.54	178.93	9,691.4	-386.9	7.3	21.4	0.00	0.00	0.00
9,750.0	2.54	178.93	9,741.4	-389.2	7.3	21.6	0.00	0.00	0.00
9,800.0	2.54	178.93	9,791.3	-391.4	7.3	21.7	0.00	0.00	0.00
9,811.8	2.54	178.93	9,803.1	-391.9	7.3	21.7	0.00	0.00	0.00
9,850.0	1.77	178.93	9,841.3	-393.3	7.4	21.8	2.00	-2.00	0.00
9,900.0	0.77	178.93	9,891.3	-394.4	7.4	21.9	2.00	-2.00	0.00
9,938.7	0.00	0.00	9,930.0	-394.7	7.4	21.9	2.00	-2.00 -2.00	0.00
	FNL & 243' FEL (
9,950.0	1.13	89.95	9,941.3	-394.7	7.5	22.0	10.00	10.00	0.00
10,000.0	6.13	89.95	9,991.2	-394.7	10.7	25.1	10.00	10.00	0.00
10,050.0	11.13	89.95	10,040.6	-394.7	18.2	32.6	10.00	10.00	0.00
10,100.0	16.13	89.95	10,089.2	-394.7	29.9	44.4	10.00	10.00	0.00
10,150.0	21.12	89.95	10,136.5	-394.7	45.9	60.4	10.00	10.00	0.00
10,200.0	26.12	89.95	10,182.3	-394.7	65.9	80.4	10.00	10.00	0.00
10,250.0	31.12	89.95	10,102.3	-394.6	89.9	104.3	10.00	10.00	0.00
10,300.0	36.12	89.95	10,226.2	-394.6 -394.6	117.6	132.0	10.00	10.00	0.00
10,350.0		89.95	10,306.9	-394.6	148.8			10.00	
10,350.0	41.12		10,306.9			163.1	10.00		0.00
	46.12	89.95		-394.6	183.2	197.6	10.00	10.00	0.00
10,450.0	51.12	89.95	10,376.1	-394.5	220.7	235.1	10.00	10.00	0.00
10,500.0	56.12	89.95	10,405.8	-394.5	261.0	275.3	10.00	10.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Oxbow 23/24 Fed Com #853H

Well: Sec 22, T25S, R28E

Wellbore: BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

Grid

ned 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)
10,550.0	61.11	89.95	10,431.8	-394.5	303.7	317.9	10.00	10.00	0.00
10,600.0	66.11	89.95	10,454.0	-394.4	348.4	362.7	10.00	10.00	0.00
10,650.0	71.11	89.95	10,472.2	-394.4	395.0	409.2	10.00	10.00	0.00
10,700.0	76.11	89.95	10,486.3	-394.3	442.9	457.1	10.00	10.00	0.00
10,750.0	81.11	89.95	10,496.2	-394.3	491.9	506.1	10.00	10.00	0.00
10,800.0	86.11	89.95	10,501.8	-394.3	541.6	555.7	10.00	10.00	0.00
10,000.0	00.11		10,301.0	-594.5		333.1	10.00		
10,828.5	88.96	89.95	10,503.0	-394.2	570.1	584.2	10.00	10.00	0.00
10,838.6	88.96	89.95	10,503.2	-394.2	580.2	594.3	0.00	0.00	0.00
FTP / LP: 1430' FNL & 330' FWL (Sec 23)									
10,850.0	88.96	89.95	10,503.4	-394.2	591.6	605.6	0.00	0.00	0.00
10,900.0	88.96	89.95	10,504.3	-394.2	641.6	655.6	0.00	0.00	0.00
10,950.0	88.96	89.95	10,505.2	-394.1	691.6	705.5	0.00	0.00	0.00
11,000.0	88.96	89.95	10,506.1	-394.1	741.5	755.5	0.00	0.00	0.00
11,050.0	88.96	89.95	10,506.1	-394.1 -394.1	741.5 791.5	755.5 805.5	0.00	0.00	0.00
11,100.0	88.96	89.95	10,507.9	-394.0	841.5	855.4	0.00	0.00	0.00
11,150.0	88.96	89.95	10,508.8	-394.0	891.5	905.4	0.00	0.00	0.00
11,200.0	88.96	89.95	10,509.7	-393.9	941.5	955.3	0.00	0.00	0.00
11,250.0	88.96	89.95	10,510.6	-393.9	991.5	1,005.3	0.00	0.00	0.00
11,300.0	88.96	89.95	10,511.5	-393.8	1,041.5	1,055.2	0.00	0.00	0.00
11,350.0	88.96	89.95	10,512.4	-393.8	1,091.5	1,105.2	0.00	0.00	0.00
11,400.0	88.96	89.95	10,513.3	-393.8	1,141.5	1,155.2	0.00	0.00	0.00
11,450.0	88.96	89.95	10,513.3	-393.7	1,141.5	1,135.2	0.00	0.00	0.00
,					•				
11,500.0	88.96	89.95	10,515.2	-393.7	1,241.5	1,255.1	0.00	0.00	0.00
11,550.0	88.96	89.95	10,516.1	-393.6	1,291.5	1,305.0	0.00	0.00	0.00
11,600.0	88.96	89.95	10,517.0	-393.6	1,341.4	1,355.0	0.00	0.00	0.00
11,650.0	88.96	89.95	10,517.9	-393.6	1,391.4	1,404.9	0.00	0.00	0.00
11,700.0	88.96	89.95	10,518.8	-393.5	1,441.4	1,454.9	0.00	0.00	0.00
11 750 0	99.00	80 OF	10,519.7	202 E	1 101 1	1,504.9	0.00	0.00	0.00
11,750.0	88.96	89.95 89.95		-393.5 -393.4	1,491.4	,	0.00		0.00
11,800.0	88.96		10,520.6		1,541.4	1,554.8	0.00	0.00	0.00
11,850.0	88.96	89.95	10,521.5	-393.4	1,591.4	1,604.8	0.00	0.00	0.00
11,900.0	88.96	89.95	10,522.4	-393.3	1,641.4	1,654.7	0.00	0.00	0.00
11,950.0	88.96	89.95	10,523.3	-393.3	1,691.4	1,704.7	0.00	0.00	0.00
12,000.0	88.96	89.95	10,524.2	-393.3	1,741.4	1,754.6	0.00	0.00	0.00
12,050.0	88.96	89.95	10,525.1	-393.2	1,791.4	1,804.6	0.00	0.00	0.00
12,100.0	88.96	89.95	10,526.0	-393.2	1,841.4	1,854.6	0.00	0.00	0.00
12,150.0	88.96	89.95	10,526.9	-393.1	1,891.4	1,904.5	0.00	0.00	0.00
12,200.0	88.96	89.95	10,527.8	-393.1	1,941.3	1,954.5	0.00	0.00	0.00
,									
12,250.0	88.96	89.95	10,528.7	-393.1	1,991.3	2,004.4	0.00	0.00	0.00
12,300.0	88.96	89.95	10,529.6	-393.0	2,041.3	2,054.4	0.00	0.00	0.00
12,350.0	88.96	89.95	10,530.5	-393.0	2,091.3	2,104.3	0.00	0.00	0.00
12,400.0	88.96	89.95	10,531.4	-392.9	2,141.3	2,154.3	0.00	0.00	0.00
12,450.0	88.96	89.95	10,532.3	-392.9	2,191.3	2,204.2	0.00	0.00	0.00
12,500.0	88.96	89.95	10.533.3	-392.9	2,241.3	2,254.2	0.00	0.00	0.00
12,550.0	88.96	89.95	10,533.3	-392.9 -392.8	2,241.3	2,254.2	0.00	0.00	0.00
12,550.0		89.95 89.95	10,534.2	-392.8 -392.8	2,291.3	2,304.2 2,354.1	0.00	0.00	0.00
,	88.96								
12,650.0	88.96	89.95	10,536.0	-392.7	2,391.3	2,404.1	0.00	0.00	0.00
12,700.0	88.96	89.95	10,536.9	-392.7	2,441.3	2,454.0	0.00	0.00	0.00
12,750.0	88.96	89.95	10,537.8	-392.6	2,491.3	2,504.0	0.00	0.00	0.00
12,800.0	88.96	89.95	10,538.7	-392.6	2,541.3	2,553.9	0.00	0.00	0.00
12,850.0	88.96	89.95	10,539.6	-392.6	2,591.2	2,603.9	0.00	0.00	0.00
12,900.0	88.96	89.95	10,540.5	-392.5	2,641.2	2,653.9	0.00	0.00	0.00
12,950.0	88.96	89.95	10,541.4	-392.5	2,691.2	2,703.8	0.00	0.00	0.00
*									
13,000.0	88.96	89.95	10,542.3	-392.4	2,741.2	2,753.8	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Oxbow 23/24 Fed Com #853H

 Well:
 Sec 22, T25S, R28E

 Wellbore:
 BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H

WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

Grid

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,050.0	88.96	89.95	10,543.2	-392.4	2,791.2	2,803.7	0.00	0.00	0.00
13,100.0	88.96	89.95	10,544.1	-392.4	2,841.2	2,853.7	0.00	0.00	0.00
13,150.0	88.96	89.95	10,545.0	-392.3	2,891.2	2,903.6	0.00	0.00	0.00
13,200.0	88.96	89.95	10,545.9	-392.3	2,941.2	2,953.6	0.00	0.00	0.00
13,200.0	00,90	03.33	10,040.9	-332.3	2,341.2	2,955.0		0.00	0.00
13,250.0	88.96	89.95	10,546.8	-392.2	2,991.2	3,003.6	0.00	0.00	0.00
13,300.0	88.96	89.95	10,547.7	-392.2	3,041.2	3,053.5	0.00	0.00	0.00
13,350.0	88.96	89.95	10,548.6	-392.1	3,091.2	3,103.5	0.00	0.00	0.00
13,400.0	88.96	89.95	10,549.5	-392.1	3,141.2	3,153.4	0.00	0.00	0.00
13,450.0	88.96	89.95	10,550.4	-392.1	3,191.1	3,203.4	0.00	0.00	0.00
13,500.0	88.96	89.95	10,551.3	-392.0	3,241.1	3,253.3	0.00	0.00	0.00
13,550.0	88.96	89.95	10,552.3	-392.0	3,291.1	3,303.3	0.00	0.00	0.00
13,600.0	88.96	89.95	10,553.2	-391.9	3,341.1	3,353.2	0.00	0.00	0.00
13,650.0	88.96	89.95	10,554.1	-391.9	3,391.1	3,403.2	0.00	0.00	0.00
13,700.0	88.96	89.95	10,555.0	-391.9	3,441.1	3,453.2	0.00	0.00	0.00
40.750.0	00.00	90.05	10 555 0	204.0	2 404 4	2 502 4	0.00	0.00	0.00
13,750.0	88.96	89.95	10,555.9	-391.8	3,491.1	3,503.1	0.00	0.00	0.00
13,800.0	88.96	89.95	10,556.8	-391.8	3,541.1	3,553.1	0.00	0.00	0.00
13,850.0	88.96	89.95	10,557.7	-391.7	3,591.1	3,603.0	0.00	0.00	0.00
13,900.0	88.96	89.95	10,558.6	-391.7	3,641.1	3,653.0	0.00	0.00	0.00
13,950.0	88.96	89.95	10,559.5	-391.6	3,691.1	3,702.9	0.00	0.00	0.00
14,000.0	88.96	89.95	10,560.4	-391.6	3,741.1	3,752.9	0.00	0.00	0.00
14,050.0	88.96	89.95	10,561.3	-391.6	3,791.0	3,802.9	0.00	0.00	0.00
14,100.0	88.96	89.95	10,562.2	-391.5	3,841.0	3,852.8	0.00	0.00	0.00
14,150.0	88.96	89.95	10,563.1	-391.5	3,891.0	3,902.8	0.00	0.00	0.00
14,200.0	88.96	89.95	10,564.0	-391.4	3,941.0	3,952.7	0.00	0.00	0.00
14,250.0	88.96	89.95	10,564.9	-391.4	3,991.0	4,002.7	0.00	0.00	0.00
14,300.0	88.96	89.95	10,565.8	-391.4	4,041.0	4,052.6	0.00	0.00	0.00
14,350.0	88.96	89.95	10,566.7	-391.3	4,091.0	4,102.6	0.00	0.00	0.00
14,400.0	88.96	89.95	10,567.6	-391.3	4,141.0	4,152.6	0.00	0.00	0.00
14,450.0	88.96	89.95	10,568.5	-391.2	4,191.0	4,202.5	0.00	0.00	0.00
14,500.0	88.96	89.95	10,569.4	-391.2	4,241.0	4,252.5	0.00	0.00	0.00
14,550.0	88.96	89.95	10,570.4	-391.2	4,291.0	4,302.4	0.00	0.00	0.00
14,600.0	88.96	89.95	10,571.3	-391.1	4,341.0	4,352.4	0.00	0.00	0.00
14,650.0	88.96	89.95	10,571.3	-391.1	4,390.9	4,402.3	0.00	0.00	0.00
14,700.0	88.96	89.95	10,573.1	-391.0	4,440.9	4,452.3	0.00	0.00	0.00
14,750.0	88.96	89.95	10,574.0	-391.0	4,490.9	4,502.3	0.00	0.00	0.00
14,800.0	88.96	89.95	10,574.9	-390.9	4,540.9	4,552.2	0.00	0.00	0.00
14,850.0	88.96	89.95	10,575.8	-390.9	4,590.9	4,602.2	0.00	0.00	0.00
14,900.0	88.96	89.95	10,576.7	-390.9	4,640.9	4,652.1	0.00	0.00	0.00
14,950.0	88.96	89.95	10,577.6	-390.8	4,690.9	4,702.1	0.00	0.00	0.00
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15,000.0	88.96	89.95	10,578.5	-390.8	4,740.9	4,752.0	0.00	0.00	0.00
15,050.0	88.96	89.95	10,579.4	-390.7	4,790.9	4,802.0	0.00	0.00	0.00
15,100.0	88.96	89.95	10,580.3	-390.7	4,840.9	4,851.9	0.00	0.00	0.00
15,150.0	88.96	89.95	10,581.2	-390.7	4,890.9	4,901.9	0.00	0.00	0.00
15,200.0	88.96	89.95	10,582.1	-390.6	4,940.9	4,951.9	0.00	0.00	0.00
15,250.0	88.96	89.95	10,583.0	-390.6	4,990.8	5,001.8	0.00	0.00	0.00
15,300.0	88.96	89.95	10,583.9	-390.5	5.040.8	5,051.8	0.00	0.00	0.00
15,350.0	88.96	89.95	10,584.8	-390.5	5,090.8	5,101.7	0.00	0.00	0.00
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15,400.0	88.96	89.95	10,585.7	-390.4	5,140.8	5,151.7	0.00	0.00	0.00
15,450.0	88.96	89.95	10,586.6	-390.4	5,190.8	5,201.6	0.00	0.00	0.00
15,500.0	88.96	89.95	10,587.5	-390.4	5,240.8	5,251.6	0.00	0.00	0.00
15,550.0	88.96	89.95	10,588.5	-390.3	5,290.8	5,301.6	0.00	0.00	0.00
	88.96	89.95	10,589.4	-390.3	5,340.8	5,351.5	0.00	0.00	0.00
ງລ ກຸບເບ ເບ			, 5,555.7	500.0	5,070.0	2,001.0	0.00	0.00	0.00
15,600.0 15,650.0	88.96	89.95	10,590.3	-390.2	5,390.8	5,401.5	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Oxbow 23/24 Fed Com #853H

Well: Sec 22, T25S, R28E

Wellbore: BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,750.0	88.96	89.95	10,592.1	-390.2	5,490.8	5,501.4	0.00	0.00	0.00
15,800.0	88.96	89.95	10,593.0	-390.1	5,540.8	5,551.3	0.00	0.00	0.00
15,850.0	88.96	89.95	10,593.9	-390.1	5,590.7	5,601.3	0.00	0.00	0.00
15,900.0	88.96	89.95	10,594.8	-390.0	5,640.7	5,651.3	0.00	0.00	0.00
15,950.0	88.96	89.95	10,595.7	-390.0	5,690.7	5,701.2	0.00	0.00	0.00
16,000.0	88.96	89.95	10,596.6	-390.0	5,740.7	5,751.2	0.00	0.00	0.00
16,050.0	88.96	89.95	10,597.5	-389.9	5,790.7	5,801.1	0.00	0.00	0.00
16,100.0	88.96	89.95	10,598.4	-389.9	5,840.7	5,851.1	0.00	0.00	0.00
16,150.0	88.96	89.95	10,599.3	-389.8	5,890.7	5,901.0	0.00	0.00	0.00
16,200.0	88.96	89.95	10,600.2	-389.8	5,940.7	5,951.0	0.00	0.00	0.00
16,250.0	88.96	89.95	10,601.1	-389.7	5,990.7	6,001.0	0.00	0.00	0.00
16,300.0	88.96	89.95	10,602.0	-369.7 -389.7		6,050.9	0.00	0.00	0.00
16,350.0	88.96	89.95	10,602.0	-389.7 -389.7	6,040.7 6,090.7	6,100.9	0.00	0.00	0.00
16,400.0	88.96	89.95	10,603.8	-389.6	6,140.7	6,150.8	0.00	0.00	0.00
16,450.0	88.96	89.95	10,604.7	-389.6	6,190.7	6,200.8	0.00	0.00	0.00
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16,500.0	88.96	89.95	10,605.6	-389.5	6,240.6	6,250.7	0.00	0.00	0.00
16,550.0	88.96	89.95	10,606.5	-389.5	6,290.6	6,300.7	0.00	0.00	0.00
16,600.0	88.96	89.95	10,607.5	-389.5	6,340.6	6,350.6	0.00	0.00	0.00
16,650.0	88.96	89.95	10,608.4	-389.4	6,390.6	6,400.6	0.00	0.00	0.00
16,700.0	88.96	89.95	10,609.3	-389.4	6,440.6	6,450.6	0.00	0.00	0.00
16,750.0	88.96	89.95	10,610.2	-389.3	6,490.6	6,500.5	0.00	0.00	0.00
16,800.0	88.96	89.95	10,611.1	-389.3	6,540.6	6,550.5	0.00	0.00	0.00
16,850.0	88.96	89.95	10,612.0	-389.2	6,590.6	6,600.4	0.00	0.00	0.00
16,900.0	88.96	89.95	10,612.9	-389.2	6,640.6	6,650.4	0.00	0.00	0.00
16,950.0	88.96	89.95	10,613.8	-389.2	6,690.6	6,700.3	0.00	0.00	0.00
17,000.0	88.96	89.95	10,614.7	-389.1	6,740.6	6,750.3	0.00	0.00	0.00
17,000.0	88.96	89.95	10,614.7	-369.1 -389.1	6,740.6	6,800.3	0.00	0.00	0.00
17,100.0	88.96	89.95	10,616.5	-389.0	6,840.5	6,850.2	0.00	0.00	0.00
17,150.0	88.96	89.95	10,617.4	-389.0	6,890.5	6,900.2	0.00	0.00	0.00
17,130.0	88.96	89.95	10,618.3	-389.0	6,940.5	6,950.1	0.00	0.00	0.00
17,250.0	88.96	89.95	10,619.2	-388.9	6,990.5	7,000.1	0.00	0.00	0.00
17,300.0	88.96	89.95	10,620.1	-388.9	7,040.5	7,050.0	0.00	0.00	0.00
17,350.0	88.96	89.95	10,621.0	-388.8	7,090.5	7,100.0	0.00	0.00	0.00
17,400.0	88.96	89.95	10,621.9	-388.8	7,140.5	7,150.0	0.00	0.00	0.00
17,450.0	88.96	89.95	10,622.8	-388.8	7,190.5	7,199.9	0.00	0.00	0.00
17,500.0	88.96	89.95	10,623.7	-388.7	7,240.5	7,249.9	0.00	0.00	0.00
17,550.0	88.96	89.95	10,624.6	-388.7	7,290.5	7,299.8	0.00	0.00	0.00
17,600.0	88.96	89.95	10,625.6	-388.6	7,340.5	7,349.8	0.00	0.00	0.00
17,650.0	88.96	89.95	10,626.5	-388.6	7,390.5	7,399.7	0.00	0.00	0.00
17,700.0	88.96	89.95	10,627.4	-388.5	7,440.4	7,449.7	0.00	0.00	0.00
17,750.0	88.96	89.95	10,628.3	-388.5	7,490.4	7,499.6	0.00	0.00	0.00
17,800.0	88.96	89.95	10,629.2	-388.5	7,540.4	7,549.6	0.00	0.00	0.00
17,850.0	88.96	89.95	10,630.1	-388.4	7,590.4	7,599.6	0.00	0.00	0.00
17,900.0	88.96	89.95	10,631.0	-388.4	7,640.4	7,649.5	0.00	0.00	0.00
17,950.0	88.96	89.95	10,631.9	-388.3	7,690.4	7,699.5	0.00	0.00	0.00
18,000.0	88.96	89.95	10,632.8	-388.3	7,740.4	7,749.4	0.00	0.00	0.00
18,050.0	88.96	89.95	10,633.7	-388.3	7,790.4	7,799.4	0.00	0.00	0.00
18,100.0	88.96	89.95	10,634.6	-388.2	7,840.4	7,849.3 7,899.3	0.00	0.00 0.00	0.00 0.00
18,150.0 18,200.0	88.96 88.96	89.95 89.95	10,635.5 10,636.4	-388.2 -388.1	7,890.4 7,940.4	7,899.3 7,949.3	0.00 0.00	0.00	0.00
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18,250.0	88.96	89.95	10,637.3	-388.1	7,990.4	7,999.2	0.00	0.00	0.00
18,300.0	88.96	89.95	10,638.2	-388.0	8,040.3	8,049.2	0.00	0.00	0.00
18,350.0	88.96	89.95	10,639.1	-388.0	8,090.3	8,099.1	0.00	0.00	0.00
18,400.0	88.96	89.95	10,640.0	-388.0	8,140.3	8,149.1	0.00	0.00	0.00

Hobbs Database:

Company: Mewbourne Oil Company Eddy County, New Mexico NAD 83 Project: Oxbow 23/24 Fed Com #853H Site:

Well: Sec 22, T25S, R28E BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H WELL @ 3023.0usft (Original Well Elev) WELL @ 3023.0usft (Original Well Elev)

d Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,450.0	88.96	89.95	10,640.9	-387.9	8,190.3	8,199.0	0.00	0.00	0.00
18,460.9	88.96	89.95	10,641.1	-387.9	8,201.2	8,209.9	0.00	0.00	0.00
PPP2: 1458'	FNL & 2643' FW	/L (Sec 24)							
18,500.0	88.96	89.95	10,641.8	-387.9	8,240.3	8,249.0	0.00	0.00	0.00
18,550.0	88.96	89.95	10,642.7	-387.8	8,290.3	8,299.0	0.00	0.00	0.00
18,600.0	88.96	89.95	10,643.7	-387.8	8,340.3	8,348.9	0.00	0.00	0.00
18,650.0	88.96	89.95	10,644.6	-387.8	8,390.3	8,398.9	0.00	0.00	0.00
18,700.0	88.96	89.95	10,645.5	-387.7	8,440.3	8,448.8	0.00	0.00	0.00
18,750.0	88.96	89.95	10,646.4	-387.7	8,490.3	8,498.8	0.00	0.00	0.00
18,800.0	88.96	89.95	10,647.3	-387.6	8,540.3	8,548.7	0.00	0.00	0.00
18,850.0	88.96	89.95	10,648.2	-387.6	8,590.3	8,598.7	0.00	0.00	0.00
18,900.0	88.96	89.95	10,649.1	-387.6	8,640.2	8,648.7	0.00	0.00	0.00
18,950.0	88.96	89.95	10,650.0	-387.5	8,690.2	8,698.6	0.00	0.00	0.00
19,000.0	88.96	89.95	10,650.9	-387.5	8,740.2	8,748.6	0.00	0.00	0.00
19,050.0	88.96	89.95	10,651.8	-387.4	8,790.2	8,798.5	0.00	0.00	0.00
19,100.0	88.96	89.95	10,652.7	-387.4	8,840.2	8,848.5	0.00	0.00	0.00
19,150.0	88.96	89.95	10,653.6	-387.3	8,890.2	8,898.4	0.00	0.00	0.00
19,200.0	88.96	89.95	10,654.5	-387.3	8,940.2	8,948.4	0.00	0.00	0.00
19,250.0	88.96	89.95	10,655.4	-387.3	8,990.2	8,998.3	0.00	0.00	0.00
19,300.0	88.96	89.95	10,656.3	- 387.2	9,040.2	9,048.3	0.00	0.00	0.00
19,350.0	88.96	89.95	10,657.2	- 387.2	9,090.2	9,098.3	0.00	0.00	0.00
19,400.0	88.96	89.95	10,658.1	- 387.1	9,140.2	9,148.2	0.00	0.00	0.00
19,450.0	88.96	89.95	10,659.0	-387.1	9,190.2	9,198.2	0.00	0.00	0.00
19,500.0	88.96	89.95	10,659.9	-387.1	9,240.2	9,248.1	0.00	0.00	0.00
19,550.0	88.96	89.95	10,660.8	-387.0	9,290.1	9,298.1	0.00	0.00	0.00
19,600.0	88.96	89.95	10,661.7	-387.0	9,340.1	9,348.0	0.00	0.00	0.00
19,650.0	88.96	89.95	10,662.7	-386.9	9,390.1	9,398.0	0.00	0.00	0.00
19,700.0	88.96	89.95	10,663.6	- 386.9	9,440.1	9,448.0	0.00	0.00	0.00
19,750.0	88.96	89.95	10,664.5	- 386.8	9,490.1	9,497.9	0.00	0.00	0.00
19,782.5	88.96	89.95	10,665.1	-386.8	9,522.6	9,530.4	0.00	0.00	0.00
19,800.0	FNL & 1322' FE 88.96	L (Sec 24) 89.95	10,665.4	-386.8	9,540,1	9,547.9	0.00	0.00	0.00
19,850.0	88.96	89.95	10,666.3	-386.8	9,590.1	9,597.8	0.00	0.00	0.00
19,900.0	88.96	89.95	10,667.2	-386.7	9,640.1	9,647.8	0.00	0.00	0.00
19,950.0	88.96	89.95	10,668.1	-386.7	9,690.1	9,697.7	0.00	0.00	0.00
20,000.0	88.96	89.95	10,669.0	-386.6	9,740.1	9,747.7	0.00	0.00	0.00
20,050.0	88.96	89.95	10,669.9	-386.6	9,790.1	9,797.7	0.00	0.00	0.00
20,100.0	88.96	89.95	10,670.8	-386.6	9,840.1	9,847.6	0.00	0.00	0.00
20,150.0	88.96	89.95	10,671.7	-386.5	9,890.0	9,897.6	0.00	0.00	0.00
20,200.0	88.96	89.95	10,672.6	-386.5	9,940.0	9,947.5	0.00	0.00	0.00
20,250.0	88.96	89.95	10,673.5	-386.4	9,990.0	9,997.5	0.00	0.00	0.00
20,300.0	88.96	89.95	10,674.4	-386.4	10,040.0	10,047.4	0.00	0.00	0.00
20,350.0	88.96	89.95	10,675.3	-386.4	10,090.0	10,097.4	0.00	0.00	0.00
20,400.0	88.96	89.95	10,676.2	-386.3	10,140.0	10,147.3	0.00	0.00	0.00
20,450.0	88.96	89.95	10,677.1	-386.3	10,190.0	10,197.3	0.00	0.00	0.00
20,500.0	88.96	89.95	10,678.0	-386.2	10,240.0	10,247.3	0.00	0.00	0.00
20,550.0	88.96	89.95	10,678.9	-386.2	10,290.0	10,297.2	0.00	0.00	0.00
20,600.0	88.96	89.95	10,679.8	-386.1	10,340.0	10,347.2	0.00	0.00	0.00
20,650.0	88.96	89.95	10,680.8	-386.1	10,390.0	10,397.1	0.00	0.00	0.00
20,700.0	88.96	89.95	10,681.7	-386.1	10,440.0	10,447.1	0.00	0.00	0.00
20,750.0	88.96	89.95	10,682.6	-386.0	10,489.9	10,497.0	0.00	0.00	0.00
20,774.2	88.96	89.95	10,683.0	-386.0	10,514.1	10,521.2	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83

 Site:
 Oxbow 23/24 Fed Com #853H

 Well:
 Sec 22, T25S, R28E

Wellbore: BHL: 1430' FNL & 330' FEL (Sec 24)

Design: Design #1

Local Co-ordinate Reference:

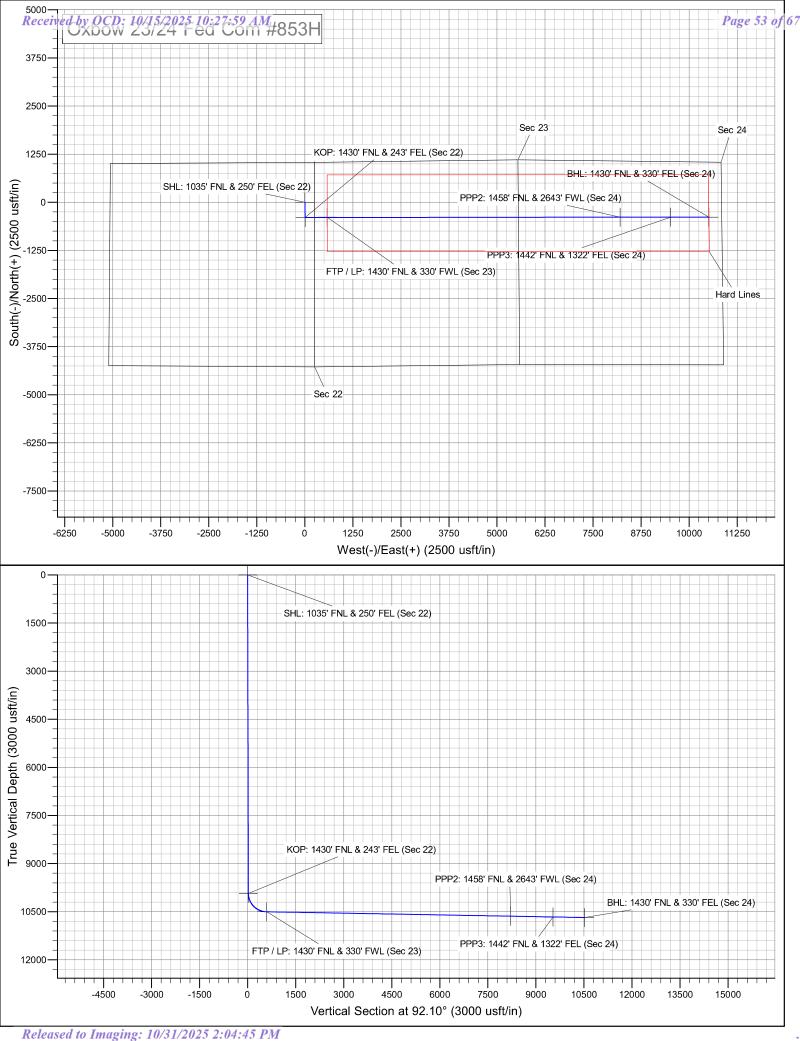
TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Oxbow 23/24 Fed Com #853H WELL @ 3023.0usft (Original Well Elev)

WELL @ 3023.0usft (Original Well Elev)

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 1035' FNL & 250' F - plan hits target cente - Point	0.00 er	0.00	0.0	0.0	0,0	407,451.90	623,698.70	32,1198849	-104.0672955
KOP: 1430' FNL & 243' I - plan hits target cente - Point	0.00 er	0.00	9,930.0	-394.7	7.4	407,057.20	623,706.10	32.1187999	-104.0672747
FTP / LP: 1430' FNL & 3 - plan misses target c - Point	0.00 enter by 5.5u	0.00 usft at 10838	10,503.0 .6usft MD (1	-388.7 0503.2 TVD, -	580.2 -394.2 N, 580.:	407,063.20 2 E)	624,278.90	32.1188124	-104.0654245
PPP2: 1458' FNL & 2640 - plan hits target center - Point	0.00 er	0.00	10,641.1	-387.9	8,201.2	407,063.98	631,899.90	32.1187601	-104.0408082
PPP3: 1442' FNL & 1322 - plan hits target cente - Point	0.00 er	0.00	10,665.1	-386.8	9,522.6	407,065.08	633,221.30	32.1187532	-104.0365400
BHL: 1430' FNL & 330' F - plan hits target cente - Point	0.00 er	0.00	10,683.0	-386.0	10,514.1	407,065.90	634,212.80	32.1187479	-104.0333374



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY **WELL NAME & NO.:** OXBOW 23/24 FED COM 853H

APD ID: 10400103718

LOCATION: Section 22, T25S, R28E. NMP

COUNTY: Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Program

Note: At the request of the operating company and upon the recommendation of the BLM geologist, the surface casing set depth was adjusted to 500 feet.

- 1. The 13-3/8 inch surface casing shall be set at approximately 500 ft. (a minimum of 70 ft. into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. If salt is encountered, set casing at least 25 ft. above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set in a competent bed at approximately 2,500 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. Excess cement is below the BLM's recommendation of 25%. More cement might be needed.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- **3.** Operator has proposed to set **7 inch** production casing at approximately **9,938 ft.** (9,930 ft. TVD). The minimum required fill of cement behind the **7** inch 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 inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Alternate Casing Program

Note: At the request of the operating company and upon the recommendation of the BLM geologist, the surface casing set depth was adjusted to 500 feet.

- 1. The 13-3/8 inch surface casing shall be set at approximately 500 ft. (a minimum of 70 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 ft. above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set in a competent bed at approximately 2,500 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. Excess cement is below the BLM's recommendation of 25%. More cement might be needed.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- **3.** Operator has proposed to set **7 inch** production casing at approximately **10,650 ft.** (10,472 ft. TVD). The minimum required fill of cement behind the **7** inch 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.

Note: The production casing must be kept fluid-filled to meet the BLM's minimum requirements for the collapse design safety factor.

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

Offline Cementing

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

C. PRESSURE CONTROL

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- **4.** Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- **6.** On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- **8.** Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.

- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- **3.** 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- **4.** If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- **5.** The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the

- cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

SA 07/18/2025

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

- 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.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

1. Well Control Equipment

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

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

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

3. <u>Hydrogen Sulfide Protection and Monitoring Equipment</u>

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

4. Visual Warning Systems

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

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: OXBOW 23/24 FED COM Well Number: 853H

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940 barrels

Waste disposal frequency: One Time Only

Safe containment description: Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located

on HWY 62/180, Sec. 27 T20S R32E.

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?

Cuttings area liner

Cuttings area liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: OXBOW 23/24 FED COM Well Number: 853H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

OXBOW_23_24_FED_COM_853H_WellSiteLayout_20250214084543.pdf

Comments: NONE

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: OXBOW 23/24 Fed Com

Multiple Well Pad Number: 555H, 455H, 855H, 877H, 557H, 457H,

858H

Recontouring

OXBOW_23_24_FED_COM_553H_InterimReclamationMap_20250313153101.pdf

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 4.7 1.34 (acres): 0

Road proposed disturbance (acres): Road interim reclamation (acres): 0 Road long term disturbance (acres): 0

4.53

(acres): 0

Powerline proposed disturbance Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0 (acres): 0

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

(acres): 0

Other proposed disturbance (acres): 0 Other interim reclamation (acres): 0 Other long term disturbance (acres): 0

Total proposed disturbance: 9.23 Total interim reclamation: 1.34 Total long term disturbance: 0

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

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

General Information Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 515458

ACKNOWLEDGMENTS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	515458
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 515458

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	515458
	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.	10/15/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/15/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	10/31/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	10/31/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	10/31/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	10/31/2025