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. NMNM116167 **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: 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 PILE DRIVER 24/13 FED COM 2. Name of Operator 9. API Well No. 30-025-55562 MEWBOURNE OIL COMPANY 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) MESCALERO ESCARPE/BONE SPRING 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 24/T18S/R33E/NMP At surface SESE / 89 FSL / 1198 FEL / LAT 32.7261991 / LONG -103.6118829 At proposed prod. zone NENE / 100 FNL / 600 FEL / LAT 32.7546934 / LONG -103.6099343 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State NM LEA 10 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 100 feet location to nearest property or lease line, ft. 320.0 (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 9107 feet / 20007 feet FED: NMB106714150 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3909 feet 05/10/2025 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 03/17/2025 (Electronic Submission) Title Regulatory Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 10/06/2025 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.



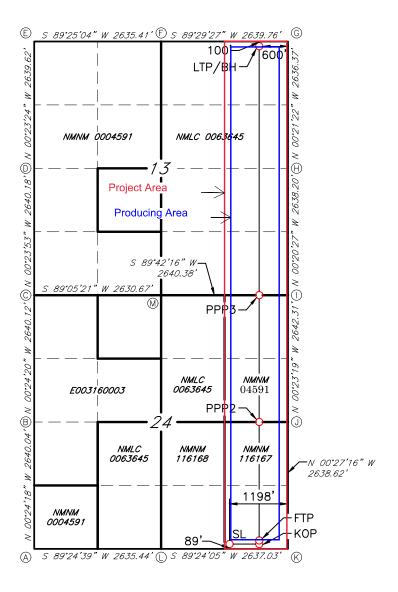
C-102 Submit Electronically		11	Ene			l Resources Dep				Revised J	uly 9, 2024	
	Electronica D Permittir			OIL	CONSERVAT	TON DIVISION				☑ Initial Submit	tal	
								Subn Type		☐ Amended Rep	ort	
								1,700		☐ As Drilled		
					WELL LOCAT	ION INFORMATIC	N					
API Nui 30-0	^{mber} 25-5556	62	Pool Code 45793			Pool Name MESCALERO ES	SCARPE;	BONE SF	PRIN	3		
Property 33827	Code		Property Na	ŀ	PILE DRIVE	R 24/13 FE	D COM		Well	Number	528H	
OGRID 14744	No.		Operator Na	ame	MEWBOUR	NE OIL COM	PANY		Grou	ınd Level Elevation	3909'	
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal					Mineral Owner:	☐ State ☐	Fee □ Tribal	✓ Fe	deral			
					Surfa	ace Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Long	gitude	County	
P	24	18S	33E		89 FSL	1198 FEL	32.726	1991°N	1 -	.6118829°W	1	
					Bottom	Hole Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Long	gitude	County	
A	13	18S	33E		100 FNL	600 FEL	32.754	6934°N	103	.6099343°W	LEA	
					1		I					
Dedicate 320	ed Acres	Infill or Defin		Defining	; Well API	Overlapping Spa	cing Unit (Y	(/N) Consoli	dation	Code		
Order N	umbers	DEI II III I				Well setbacks are under Common Ownership: ☑ Yes ☐ No						
O Table 1	41110 6151								1	_		
	T	ı		1	1	ff Point (KOP)	ı					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	00~ 40N	_	gitude	County	
P	24	18S	33E		10 FSL	600 FEL	32.725	9874°N	103	.6099379°W	LEA	
		I	T.	Ι	1	ke Point (FTP)	I		T.			
UL P	Section 24	Township 18S	Range 33E	Lot	Ft. from N/S 100 FSL	Ft. from E/W	Latitude	OO A™ONT	1 ~	.6099383°W	County LEA	
Г	24	105	JOE			ke Point (LTP)	32.720	2047 N	103	.00ฮฮวบว พ	LEA	
UL	Section	Township	Range	Lot	Ft. from N/S	<u> </u>	Latitude		Long	rituda	County	
A A	13	18S	33E	Lot	100 FNL	600 FEL	1	6934°N	1	.6099343°W	LEA	
	10	100			100 111	COO TEE	00.101		100	.0000010 11		
Unitized	d Area or Ar	rea of Uniform	Interest	Spacing	Unit Type 🛭 Hor	izontal 🗆 Vertical	_	Ground Floor 909'	Elevat	ion:		
OPER/	ATOR CER	TIFICATIONS	;			SURVEYOR CER	TIFICATIO	NS				
		information cont ef, and , if the well			plete to the best of	I hereby certify that the	ne well location	shown on this	plat wa	us plotted from field no	otes of actual	
organiza	tion either owr	is a working inter	est or unleased i	mineral inter	est in the land	surveys made by me u my belief.	naer my super			te is true una correct t	the vest of	
location	pursuant to a c		wner of a workii	ng interest o	r unleased mineral			W ME	6			
	or to a volunta y the division.	ry pooling agreen	nent or a compu	lsory pooling	g order heretofore			19680				
If this we	ll is a horizoni	tal well, I further o	certify that this (organization	has received the		(3)	, (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,)			
					sed mineral interest well's completed		\%			@ /		
interval v	vill be located	or obtained a con			the division.			SONAL	SUR			
Signature	ett Mh	iller	03/04/	2025		Signature and Seal of Prot	fassional C	SS/ONAL				
Signature	N #:11 - :		Date			Signature and Seal of Prof	/ \	"				
Brett Printed Na						Certificate Number	Date of	Survey				
		mewhour	ne.com					·	NO 15	na /000 /		
Email Add	rett.miller@mewbourne.com					19680		(02/26/2024			

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.

PILE DRIVER 24/13 FED COM #528H



<u>SURFACE LOCATION (SL)</u> N: 628677.9 - E: 763200.4 LAT: 32.7261991° N LONG: 103.6118829° W KICK OFF POINT (KOP) N: 628605.0 - E: 763799.0 LAT: 32.7259874° N LONG: 103.6099379° W FIRST TAKE POINT (FTP) N: 628695.0 - E: 763798.3 LAT: 32.7262347° N LONG: 103.6099383° W PROPOSED PENETRATION POINT 2 (PPP2) <u>2639' FSL - 597' FEL (SEC.24)</u> N: 631233.2 - E: 763781.3 LAT: 32.7332113° N LONG: 103.6099373° W PROPOSED PENETRATION POINT 3 (PPP3) <u>0' FSL - 597' FEL (SEC.13)</u> N: 633877.8 - E: 763763.5 LAT: 32.7404802° N LONG: 103.6099363° W LAST TAKE POINT/BOTTOM HOLE (LTP/BH) N: 639048.9 - E: 763728.8 LAT: 32.7546934° N LONG: 103.6099343° W CORNER DATA
NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1913" N: 628546.6 - E: 759127.9 B: FOUND 1" PIPE N: 631186.0 - E: 759109.3 C: FOUND BRASS CAP "1913" N: 633825.5 - E: 759090.6 D: FOUND BRASS CAP "1913" N: 636465.0 - F: 759072.2 E: FOUND BRASS CAP "1913" N: 639104.0 - E: 759054.3 F: FOUND BRASS CAP "1913" N: 639130.8 - F: 761689.0 G: FOUND BRASS CAP "1913" N: 639154.2 - E: 764328.0 H: FOUND 2" IRON PIPE N: 636518.5 - E: 764344.4 I: FOUND 1" IRON PIPE N: 633880.9 - E: 764360.1 J: FOUND BRASS CAP "1913" N: 631239.2 - E: 764378.0 K: CALCULATED CORNER N: 628601.3 - E: 764398.9 L: FOUND BRASS CAP "1913" N: 628573.7 - E: 761762.6 M: FOUND 1-1/2" IRON PIPE N: 633867.3 - E: 761720.3

NAD 83 GRID — NM EAST

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

	N	ATURAL G	AS MANA(GEMENT PI	LAN		
This Natural Gas Manag	gement Plan m	ust be submitted w	ith each Applicat	ion for Permit to D	Orill (APD) for a	new oi	recompleted well.
			1 – Plan De				
I. Operator: Mev	vbourne (Oil Co.	OGRID:	14744	Date:	3/	5/25
II. Type: X Original	☐ Amendment	due to □ 19.15.27	.9.D(6)(a) NMAC	C □ 19.15.27.9.D(6)(b) NMAC 🗆 (Other.	
If Other, please describe	»:						
III. Well(s): Provide the be recompleted from a s					vells 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
PILE DRIVER 24/13 FED COM 528H	H	P 24 18S 33E	89' FSL x 1198' FEL	1500	1000	2500	
				Y1-400 Y2-300 Y3-200	Y1-800 Y2-600 Y3-400	Υ	1-500 Y2-400 Y3-250
IV. Central Delivery P V. Anticipated Schedu			DRIVER 24/13 Flution for each new				7.9(D)(1) NMAC] used to be drilled or
proposed to be recomple							
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date
PILE DRIVER 24/13 FED COM 528	Н	4/5/25	5/5/25	6/5/25	6/20	/25	6/25/25
VI. Separation Equipm VII. Operational Prac Subsection A through F VIII. Best Management during active and planner	tices: 🖾 Attac of 19.15.27.8	h a complete desc NMAC. ☑ Attach a comple	ription of the act	ions Operator will	take to comply	with t	he requirements of

Section 2 — Enhanced Pl	an
EFFECTIVE APRIL 1, 2022	

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. \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 anticipal	ted 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, o	of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the	new wel	l(s).

Attach	Operator	a nlan ta	managa	production	in r	ocnonco	to th	a increased	lina	processro
Attach	Operator	s bian to) manage	production	ın r	response	to tn	e increased	ı iine	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 informatio
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)

- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	4/5/25
Phone:	575-393-5905
	OIL CONSERVATION DIVISION
	(Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Ap	proval:

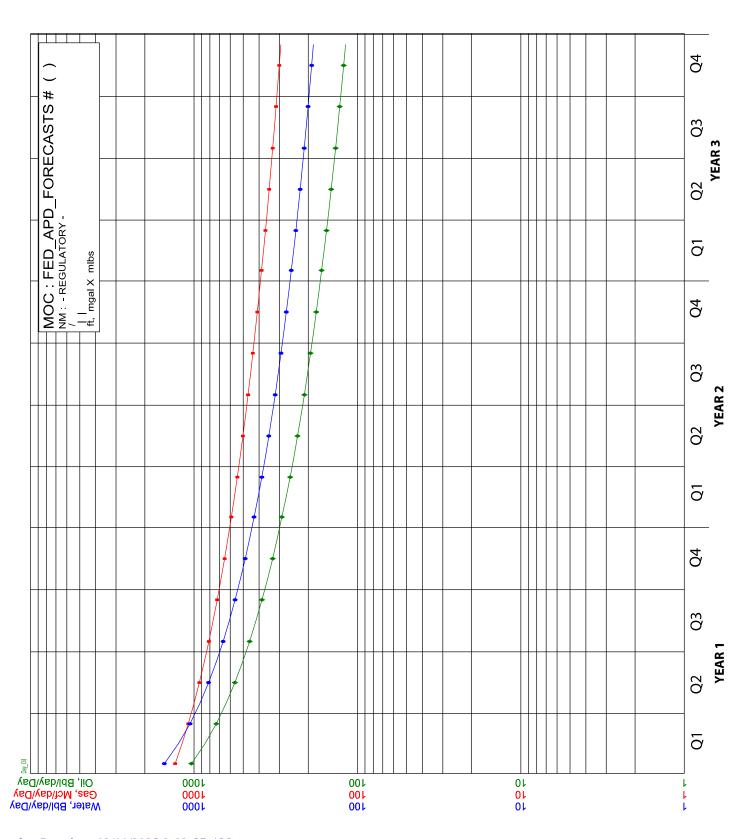
Mewbourne Oil Company

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: PILE DRIVER 24/13 FED COM

Drilling Plan Data Report 10/07/2025

APD ID: 10400087734

Submission Date: 03/17/2025

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 528H

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
16541986	UNKNOWN	3936	28	28	OTHER : Topsoil	NONE	N
16541987	RUSTLER	2261	1675	1675	ANHYDRITE, DOLOMITE	USEABLE WATER	N
16541997	TOP SALT	1991	1945	1945	SALT	NONE	N
16541998	BASE OF SALT	876	3060	3060	SALT	NONE	N
16542007	YATES	741	3195	3195	SANDSTONE	NATURAL GAS, OIL	N
16542008	SEVEN RIVERS	226	3710	3710	DOLOMITE	NATURAL GAS, OIL	N
16542009	QUEEN	-469	4405	4405	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
16542010	SAN ANDRES	-1224	5160	5160	DOLOMITE	NATURAL GAS, OIL	N
16542000	LAMAR	-1439	5375	5375	LIMESTONE	NATURAL GAS, OIL	N
16541994	BONE SPRING	-3569	7505	7505	LIMESTONE, SHALE	NATURAL GAS, OIL	N
16541995	BONE SPRING 1ST	-4859	8795	8795	SANDSTONE	NATURAL GAS, OIL	N
16542005	BONE SPRING 2ND	-5479	9415	9415	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 20007

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: PILE DRIVER 24/13 FED COM Well Number: 528H

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_20250310092112.pdf

Flex_Line_Specs_API_16C_20250310092116.pdf

5M_BOPE_Choke_Diagram_20250926082844.pdf

Flex_Line_Specs_API_16C_20250926082851.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20250310092126.pdf

Multi_Bowl_WH_20250310092138.pdf

MOC Break Testing Variance 20250310093736.pdf

5M_BOPE_Schematic_20250926082859.pdf

Multi Bowl WH 20250926082905.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1750	0	1750	3909	2159	1750	J-55	54.5	ST&C	1.44	3.49	DRY	5.39	DRY	8.94
2	INTERMED IATE	12 . 2 5	9.625	NEW	API	N	0	3560	0	3560		349	3560	J-55	36	LT&C	1.13	1.96	DRY	2.29	DRY	2.85
3	INTERMED IATE	12.2 5	9.625	NEW	API	Y	3560	4529	3560	4529	349	-620	969	J-55	40	LT&C	1.13	1.73	DRY	7.47	DRY	9.05
4	INTERMED IATE	12 . 2 5	9.625	NEW	API	N	4529	5300	4529	5300	-620	-1391	771	L-80	40	LT&C	1.16	2.15	DRY	23.9	DRY	29.7
5	PRODUCTI ON	8.75	7.0	NEW	API	Υ	0	9213	0	9189		-5280	9213	P- 110	26	LT&C	1.34	2.15	DRY	2.89	DRY	3.47
6	PRODUCTI ON	8.5	4.5	NEW	API	Υ	9213	20007	9189	9107	-5280	-5198		OTH ER - RYS 110		OTHER - CDC HTQ	1.75	2.04	DRY	2.94	DRY	2.9

Well Name: PILE DRIVER 24/13 FED COM Well Number: 528H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $13.375 in_54.5 \underline{\hspace{0.3cm}} J55 \underline{\hspace{0.3cm}} STC \underline{\hspace{0.3cm}} Csg \underline{\hspace{0.3cm}} 20250310092539.pdf$

13.375in_54.5__J55_STC_Csg_20250926083118.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_36__J55_LTC_Csg_20250310092336.pdf

9.625in_36__J55_LTC_Csg_20250926083041.pdf

Casing ID: 3

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_40__J55_LTC_Csg_20250310092733.pdf

9.625in_40__J55_LTC_Csg_20250926083136.pdf

Well Name: PILE DRIVER 24/13 FED COM Well Number: 528H

Casing Attachments

Casing ID: 4

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_40__L80_LTC_Csg_20250310092844.pdf

9.625in_40__L80_LTC_Csg_20250926083212.pdf

Casing ID: 5

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Pile_Driver_24_13_Fed_Com_528H_Tapered_String_20250310092220.pdf Pile_Driver_24_13_Fed_Com_528H_Tapered_String_20250926083011.pdf

Casing Design Assumptions and Worksheet(s):

7in_26__P110_LTC_Csg_20250310092247.pdf

7in_26__P110_LTC_Csg_20250926083018.pdf

Casing ID: 6

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Pile_Driver_24_13_Fed_Com_528H_Tapered_String_20250310092427.pdf Pile_Driver_24_13_Fed_Com_528H_Tapered_String_20250926083054.pdf

Casing Design Assumptions and Worksheet(s):

4.5in_13.5__RYS110_CDC_HTQ_Csg_20250310092455.pdf

Well Name: PILE DRIVER 24/13 FED COM Well Number: 528H

Casing Attachments

4.5in_13.5__RYS110_CDC_HTQ_Csg_20250926083100.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МБ	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0

SURFACE	Lead	0	1559	1030	2.12	12.5	2190	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	155	9 1750	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	0	4600	830	2.12	12.5	1760	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail	460	5300	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	510	7147	360	2.12	12.5	770	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail	714	7 2000	4100	1.18	15.6	4838	25	Class H	Retarder Fluid Loss Deafoamer

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: Pason/PVT/Visual Monitoring

Circulating Medium Table

Well Name: PILE DRIVER 24/13 FED COM Well Number: 528H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1750	SPUD MUD	8.4	8.6							
1750	5300	SALT SATURATED	8.6	9.7						9	
5300	9213	SALT SATURATED	8.6	9.7					.\		
9213	2000 7	OIL-BASED MUD	10	12						1	

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (9213') to surface (horizontal well vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6091 Anticipated Surface Pressure: 3973

Anticipated Bottom Hole Temperature(F): 140

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_Plan_20250310093501.pdf H2S_Plan_20250926083247.pdf

Well Name: PILE DRIVER 24/13 FED COM Well Number: 528H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PILE_DRIVER_24_13_FED_COM_528H_Dir_Plan_20250310093519.pdf PILE_DRIVER_24_13_FED_COM_528H_Dir_Plot_20250310093523.pdf PILE_DRIVER_24_13_FED_COM_528H_Dir_Plan_20250926083302.pdf PILE_DRIVER_24_13_FED_COM_528H_Dir_Plot_20250926083307.pdf

Other proposed operations facets description:

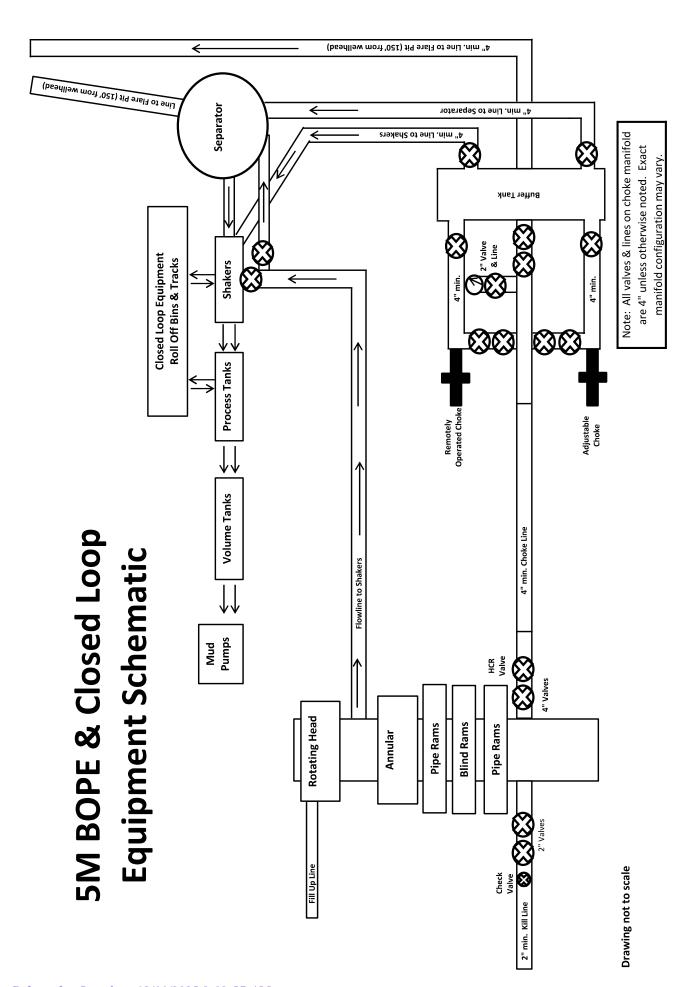
Other proposed operations facets attachment:

Pile_Driver_24_13_Fed_Com_528H_Drlg_Program_20250310093536.pdf PILE_DRIVER_24_13_FED_COM_528H_NGMP_1_20250310093544.pdf Pile_Driver_24_13_Fed_Com_528H_Drlg_Program_20250926083313.pdf PILE_DRIVER_24_13_FED_COM_528H_NGMP_1_20250926083319.pdf

Other Variance request(s)?:

Other Variance attachment:

MOC_Offline_Cementing_Variance_20250425080334.pdf
MOC_Break_Testing_Variance_20250425080334.pdf
MOC_Break_Testing_Variance_20250926083325.pdf
MOC_Offline_Cementing_Variance_20250926083330.pdf





HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

№: 230826015

Product Name	Cho	ke And Kill Hose	Standard	1 /	API Spec 16C 3 rd edition
Product Specification	n 3″×1000	0psi×60ft(18.29m)	Serial Num	ber	7660144
Inspection Equipmen	nt MTU	J-BS-1600-3200-E	Test mediu	ım	Water
Inspection Departmen	nt Ç	2.C. Department	Inspection I	Date	2023.08.26
		Rate of length	change		
Standard requiremen	ts At working pro	essure, the rate of length	change should not m	nore than ±	2%
Testing result	10000psi (69.0	MPa) ,Rate of length cha	inge 0.7%		
198.4.4.4		Hydrostatic te	sting		
Standard requiremen		orking pressure, the initions			
Testing result	15000psi (103	.5MPa), 3 min for the first	t time, 60 min for th	ne second tin	me, no leakage
					West less
Graph of pressure testi	ng:	110			
100 100 90 100 1		110 100 90 80 70 60 17 90 80 70 70			
100 100	EZT 215627 215527 215627 215	90 80 70 60 50 60 70 10 10 10 10 10 10 10 10 10 1	233958 231858 2359t	100 00 00 00 00 00 00 00 00 00 00 00 00	ootesi ootesi ootesi oo
110 100 100 100 100 100 100 100 100 100	EZT 215627 215527 215627 215	90 - 90 - 90 - 90 - 90 - 90 - 90 - 90 -	233958 231858 2359t	58 00:09:58	(10)



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	Items			Inspection results					
	Appearance Ch	necking			In accordance with API Spec 16C 3 rd edition					
	Size and Len	ngths			In accorda	nce with API Spec	16C 3 rd edition			
Γ	Dimensions and T	Tolerance	es		In accorda	nce with API Spec	16C 3 rd edition			
End Connections: 4-	1/16"×10000psi Inte	egral flang	ge for sour gas ser	vice	In accorda	nce with API Spec	6A 21st edition			
End Connections: 4-	1/16"×10000psi Inte	egral flang	ge for sour gas ser	vice	In accordance with API Spec 17D 3 rd edition					
	Hydrostatic To	esting			In accordance with API Spec 16C 3rd edition					
	product Mar	king			In accordance with API Spec 16C 3 rd edition					
Inspection con	nclusion	Th	ne inspected ite	ms me	eet standard require	ments of API Spec	16C 3 rd edition			
Remark	Remarks									
Approver Jian long Chan Auditor					iging Dong	Inspector	Zhansheng Wang			



CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

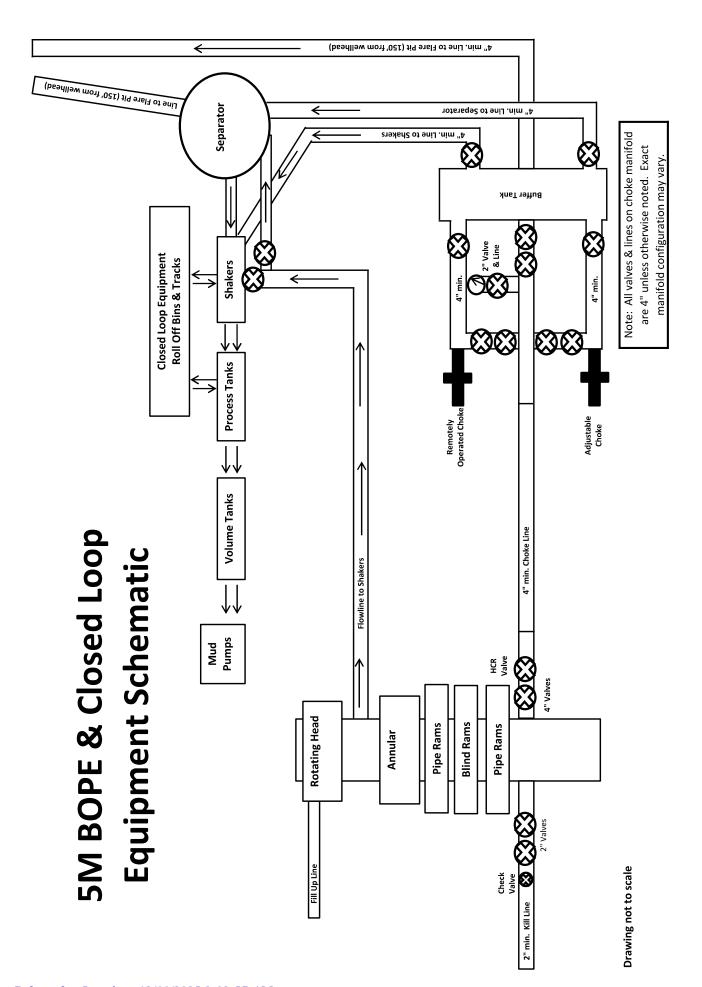
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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





HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

№: 230826015

Product Name	Cho	ke And Kill Hose		Standard	I AP	I Spec 16C 3 rd edition
Product Specification	3″×1000	0psi×60ft(18.29m	1)	Serial Num	ber	7660144
Inspection Equipment	MTU	J-BS-1600-3200-E		Test mediu	ım	Water
Inspection Department	C	C. Department		Inspection I	Date	2023.08.26
		Rate of le	ength chang	ge	,	
Standard requirements	At working pro	essure ,the rate of le	ength chang	ge should not m	nore than ± 2	%
Testing result	10000psi (69.0	MPa) ,Rate of leng	th change).7%		
	<u>.</u>	Hydrosta	atic testing			
Standard requirements		orking pressure, the ssure-holding perio				ess than three minutes,
Testing result	15000psi (103	.5MPa), 3 min for t	he first tim	e, 60 min for th	ne second time	e, no leakage
Graph of pressure testing	g:					When to
100 J			100 90 85 73 66 60 10 10			
21,4621 21,4621 21,4621 21,4621 21,4621	115621 115621 115621 115621 115	021 220021 220021 220021 22002122	07 21:29:58 23	DSS 23:4958 23:59:	58 00:09:58 00:19:	SI 002HSI 00:HSI 0053
Conclusion	The inspec	eted items meet stan	dard requi	rements of API	Spec 16C 3 rd	edition
Approver	liaulong Chen	Auditor	Hugi	ng Dong	Inspector	Zhansheng Wang



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	5		Inspection results					
	Appearance (Checking	g		In accordance with API Spec 16C 3 rd edition					
	Size and L	engths			In accordance with API Spec 16C 3 rd edition					
Г	imensions and	d Tolerar	nces		In accordan	nce with API Spec	16C 3 rd edition			
End Connections: 4-1	/16"×10000psi I	ntegral fla	ange for sour gas ser	vice	In accordar	nce with API Spec	6A 21st edition			
End Connections: 4-1	/16"×10000psi I	ntegral fla	ange for sour gas sei	rvice	In accordance with API Spec 17D 3 rd edition					
	Hydrostatic	Testing			In accordance with API Spec 16C 3 rd edition					
	product M	larking			In accordance with API Spec 16C 3 rd edition					
Inspection cor	nclusion		The inspected ite	ms me	eet standard requirer	ments of API Spec	16C 3 rd edition			
Remark	S									
Approver Jian long Chen Auditor					nging Dong	Inspector	Zhansheng Wang			



CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

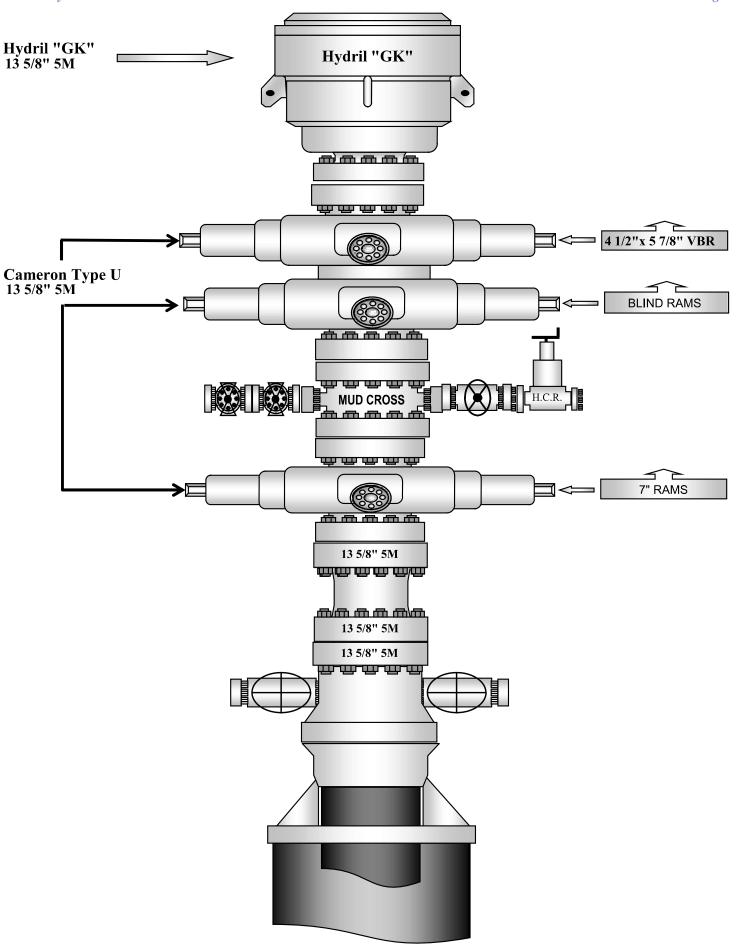
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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

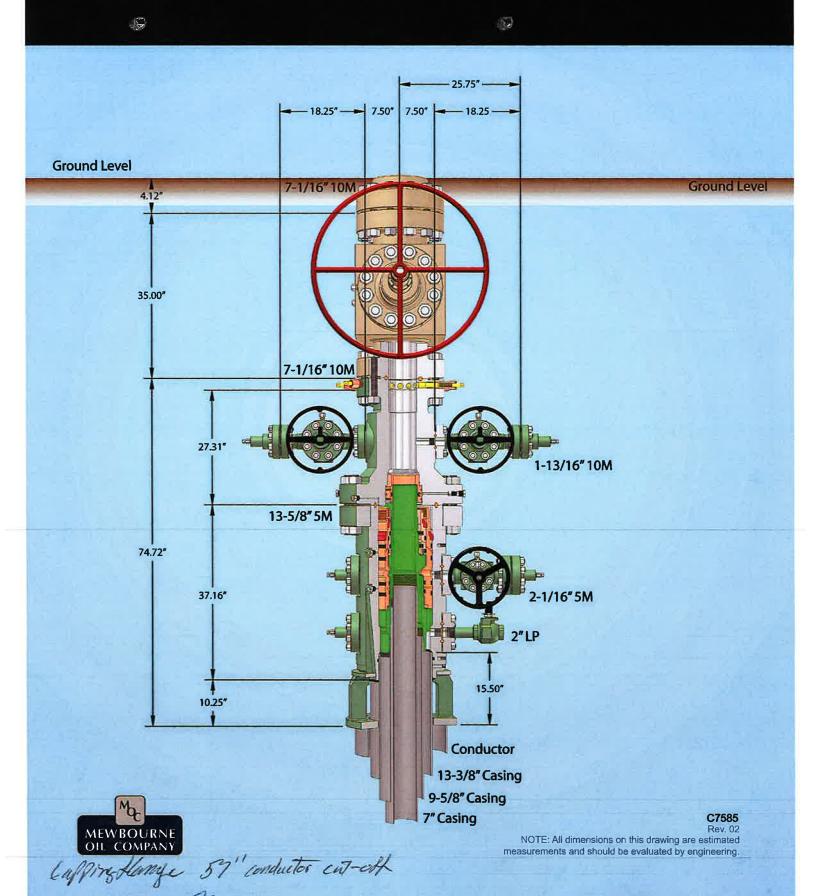
QC Manager:

Date: Aug 26, 2023





13-5/8" MN-DS Wellhead System



Released to Imaging: 12/11/2025 9:09:57 AM



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 quick 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

Summary

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.



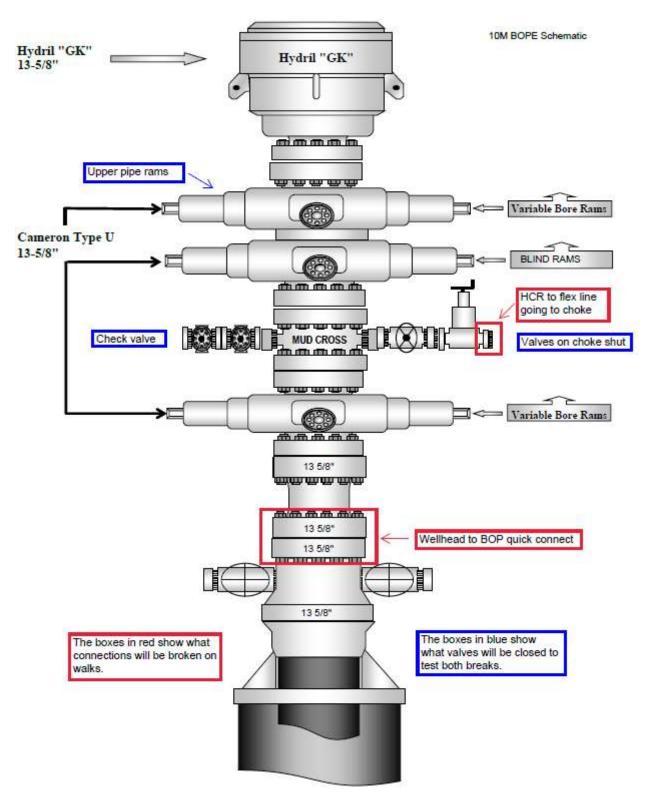


Figure 1. BOP diagram



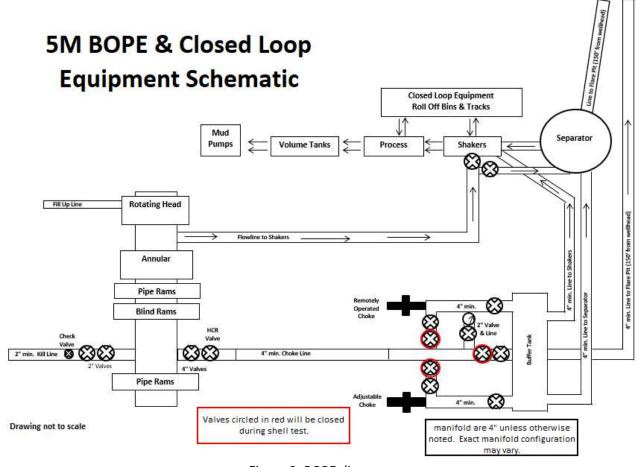


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



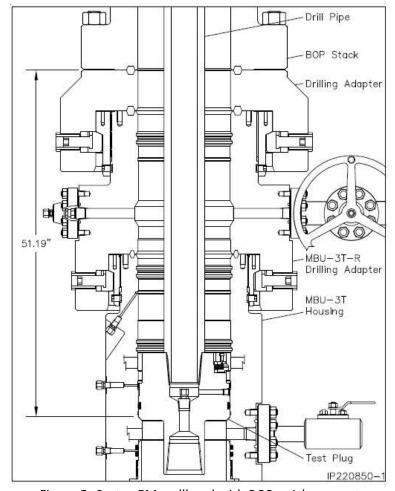


Figure 5. Cactus 5M wellhead with BOP quick connect

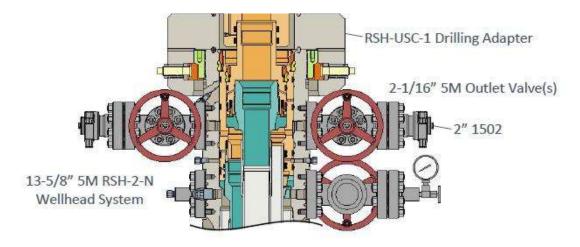
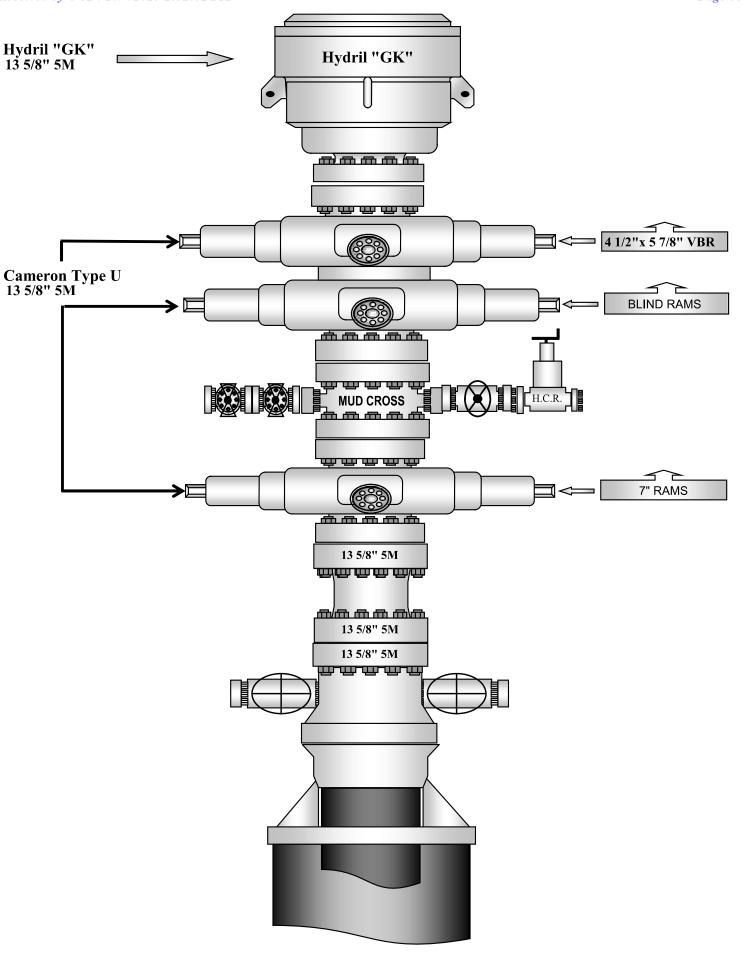
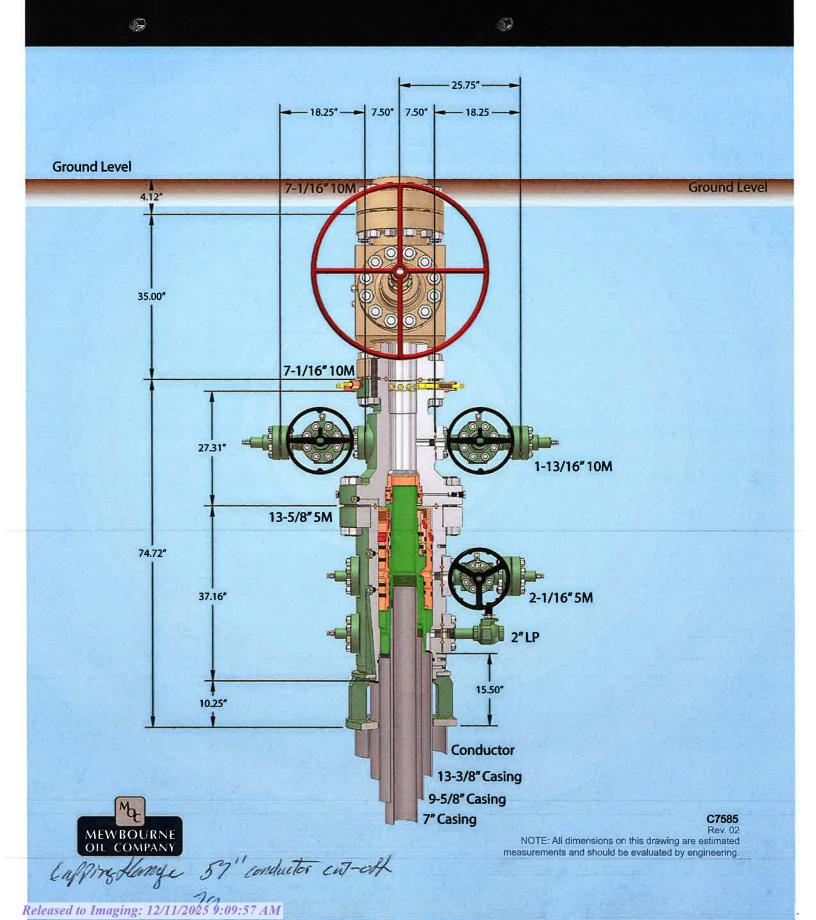


Figure 6. Vault 5M wellhead with BOP quick connect



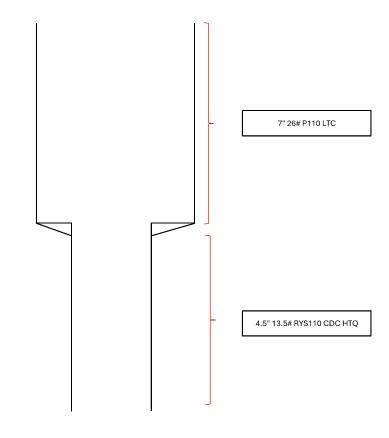


13-5/8" MN-DS Wellhead System



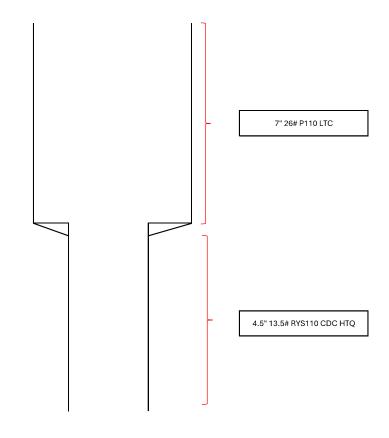
Sec 24, T18S, R33E SHL: 89' FSL & 1198' FEL (Sec 24) BHL: 100' FNL & 600' FEL (Sec 13)

	Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
ſ	8.75	0'	9213'		7" 26# P	110 LTC		1.34	2.15	2.89	3.47
ſ	8.5	9213'	20007'	4.5" 13	3.5# RYS	110 CDC	HTQ	1.75	2.04	2.94	2.90



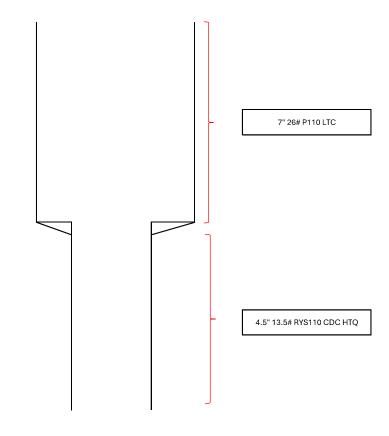
Sec 24, T18S, R33E SHL: 89' FSL & 1198' FEL (Sec 24) BHL: 100' FNL & 600' FEL (Sec 13)

	Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
ſ	8.75	0'	9213'		7" 26# P	110 LTC		1.34	2.15	2.89	3.47
ſ	8.5	9213'	20007'	4.5" 13	3.5# RYS	110 CDC	HTQ	1.75	2.04	2.94	2.90



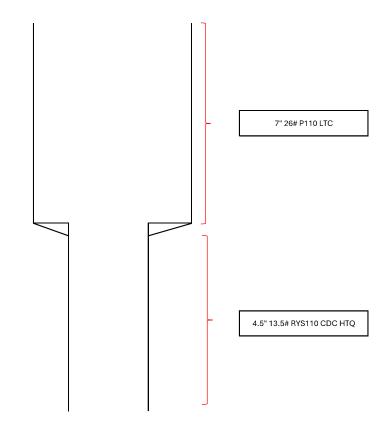
Sec 24, T18S, R33E SHL: 89' FSL & 1198' FEL (Sec 24) BHL: 100' FNL & 600' FEL (Sec 13)

Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	9213'		7" 26# P110 LTC			1.34	2.15	2.89	3.47
8.5	9213'	20007'	4.5" 13	3.5# RYS	110 CDC	HTQ	1.75	2.04	2.94	2.90



Sec 24, T18S, R33E SHL: 89' FSL & 1198' FEL (Sec 24) BHL: 100' FNL & 600' FEL (Sec 13)

Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	9213'		7" 26# P	110 LTC		1.34	2.15	2.89	3.47
8.5	9213'	20007'	4.5" 13	3.5# RYS	110 CDC	HTQ	1.75	2.04	2.94	2.90



Tenaris

API LTC

 Coupling
 Pipe Body

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

 Body: Bright Green
 1st Band: Bright Green

 1st Band: White
 2nd Band:

 2nd Band: 3rd Band:

 3rd Band: 4th Band:

Outside Diameter	9.625 in.	Wall Thickness	0.395 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	8.679 in.
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft
Nominal Weight	40 lb/ft	OD Tolerance	API
Nominal ID	8.835 in.		

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	630 x1000 lb
Min. Internal Yield Pressure	3950 psi
Collapse Pressure	2570 psi
Max. Allowed Bending	26 °/100 ft

Connection Data

Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3950 psi	Maximum Torque	6500 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	5200 ft-lb
Thread per In	8	Joint Strength	520 x1000 lb	Minimum Torque	3900 ft-lb
Geometry		Performance		Make-Up Torques	

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.

■ Tenaris

API LTC

 Coupling
 Pipe Body

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

 Body: Bright Green
 1st Band: Bright Green

 1st Band: White
 2nd Band:

 2nd Band: 3rd Band:

 3rd Band: 4th Band:

Outside Diameter	9.625 in.	Wall Thickness	0.395 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	8.679 in.
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft
Nominal Weight	40 lb/ft	OD Tolerance	API
Nominal ID	8.835 in.		

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	630 x1000 lb
Min. Internal Yield Pressure	3950 psi
Collapse Pressure	2570 psi
Max. Allowed Bending	26 °/100 ft

Connection Data

N					
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3950 psi	Maximum Torque	6500 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	5200 ft-lb
Thread per In	8	Joint Strength	520 x1000 lb	Minimum Torque	3900 ft-lb
Geometry		Performance		Make-Up Torques	

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.



 Coupling
 Pipe Body

 Grade: L80 Type 1
 Grade: L80 Type 1

 Body: Red
 1st Band: Red

 1st Band: Brown
 2nd Band: Brown

 2nd Band: 3rd Band:

 3rd Band: 4th Band:

Outside Diameter	9.625 in.	Wall Thickness	0.395 in.	Grade	L80 Type 1
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	8.679 in.
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft
Nominal Weight	40 lb/ft	OD Tolerance	API
Nominal ID	8.835 in.		

Performance	
SMYS	80,000 psi
Min UTS	95,000 psi
Body Yield Strength	916 x1000 lb
Min. Internal Yield Pressure	5750 psi
Collapse Pressure	3090 psi
Max. Allowed Bending	38 °/100 ft

Connection Data

Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	5750 psi	Maximum Torque	9090 ft-lb
Connection OD	10.625 in.	Coupling Face Load	630 x1000 lb	Optimum Torque	7270 ft-lb
Thread per In	8	Joint Strength	727 x1000 lb	Minimum Torque	5450 ft-lb
Geometry		Performance		Make-Up Torques	

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.

■Tenaris

API LTC

 Coupling
 Pipe Body

 Grade: L80 Type 1
 Grade: L80 Type 1

 Body: Red
 1st Band: Red

 1st Band: Brown
 2nd Band: Brown

 2nd Band: 3rd Band:

 3rd Band: 4th Band:

Outside Diameter	9.625 in.	Wall Thickness	0.395 in.	Grade	L80 Type 1
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	8.679 in.
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft
Nominal Weight	40 lb/ft	OD Tolerance	API
Nominal ID	8.835 in.		

80,000 psi
95,000 psi
916 x1000 lb
5750 psi
3090 psi
38 °/100 ft

Connection Data

N					
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	5750 psi	Maximum Torque	9090 ft-lb
Connection OD	10.625 in.	Coupling Face Load	630 x1000 lb	Optimum Torque	7270 ft-lb
Thread per In	8	Joint Strength	727 x1000 lb	Minimum Torque	5450 ft-lb
Geometry		Performance		Make-Up Torques	

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.



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.		

Performance	
SMYS	110,000 psi
Min UTS	125,000 psi
Body Yield Strength	830 x1000 lb
Min. Internal Yield Pressure	9960 psi
Collapse Pressure	6230 psi
Max. Allowed Bending	72 °/100 ft

Connection Data

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

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,



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.		

Performance	
SMYS	110,000 psi
Min UTS	125,000 psi
Body Yield Strength	830 x1000 lb
Min. Internal Yield Pressure	9960 psi
Collapse Pressure	6230 psi
Max. Allowed Bending	72 °/100 ft

Connection Data

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

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,



 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

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.

API LTC

 Coupling
 Pipe Body

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

 Body: Bright Green
 1st Band: Bright Green

 1st Band: White
 2nd Band:

 2nd Band: 3rd Band:

 3rd Band: 4th Band:

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

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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U. S. Steel Tubular Products 4.500" 13.50lb/ft (0.290" Wall)

USS RYS110 USS-CDC HTQ®

		<u> </u>	
MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ [®]	
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	125,000		psi
Minimum Tensile Strength	120,000		psi
DIMENSIONS	Pipe	USS-CDC HTQ [®]	
Outside Diameter	4.500	5.250	in.
Wall Thickness	0.290		in.
Inside Diameter	3.920	3.920	in.
Standard Drift	3.795	3.795	in.
Alternate Drift			in.
Nominal Linear Weight, T&C	13.50		lb/ft
Plain End Weight	13.05		lb/ft
ECTION AREA	Pipe	USS-CDC HTQ [®]	
Critical Area	3.836	3.836	sq. in.
Joint Efficiency		100.0	%
ERFORMANCE	Pipe	USS-CDC HTQ [®]	
Minimum Collapse Pressure	10,680	10,680	psi
External Pressure Leak Resistance		8,540	psi
Minimum Internal Yield Pressure	12,420	12,420	psi
Minimum Pipe Body Yield Strength	422,000		lb
Joint Strength		427,800	lb
Compression Rating		256,700	lb
Reference Length		21,126	ft
Maximum Uniaxial Bend Rating		68.2	deg/100 ft
MAKE-UP DATA	Pipe	USS-CDC HTQ [®]	
Make-Up Loss		4.44	in.
Minimum Make-Up Torque		7,000	ft-lb
Maximum Make-Up Torque		10,000	ft-lb
			6. 11
Connection Yield Torque		12,400	ft-lb

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
- 5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

Legal Notice

USS - CDC HTQ[®] (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

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U. S. Steel Tubular Products 4.500" 13.50lb/ft (0.290" Wall) USS RYS110 USS-CDC HTQ®

	***************************************	www.y.ww	
MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ [®]	
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	125,000		psi
Minimum Tensile Strength	120,000		psi
DIMENSIONS	Pipe	USS-CDC HTQ [®]	
Outside Diameter	4.500	5 250	in

DIMENSIONS	Pipe	USS-CDC HTQ $^{ m ext{ iny R}}$		
Outside Diameter	4.500	5.250	in.	-
Wall Thickness	0.290		in.	_
Inside Diameter	3.920	3.920	in.	-
Standard Drift	3.795	3.795	in.	-
Alternate Drift			in.	-
Nominal Linear Weight, T&C	13.50		lb/ft	_
Plain End Weight	13.05		lb/ft	
SECTION AREA	Pipe	USS-CDC HTQ [®]		-
Critical Area	3,836	3,836	sq. in.	-

Joint Efficiency		100.0	%	
PERFORMANCE	Pipe	USS-CDC HTQ [®]		
Minimum Collapse Pressure	10,680	10,680	psi	
External Pressure Leak Resistance		8,540	psi	
Minimum Internal Yield Pressure	12,420	12,420	psi	
Minimum Pipe Body Yield Strength	422,000		lb	
Joint Strength		427,800	lb	
Compression Rating		256,700	lb	
Reference Length		21,126	ft	
Maximum Uniaxial Bend Rating		68.2	deg/100 ft	
MAKE-UP DATA	Pipe	USS-CDC HTQ [®]		
Make-Up Loss		4.44	in.	
Minimum Make-Up Torque		7,000	ft-lb	

Notes

Maximum Make-Up Torque

Connection Yield Torque

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).

10,000

12,400

- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
- 5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

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1-877-893-9461 connections@uss.com www.usstubular.com

ft-lb

ft-lb

3860 ft-lb

5140 ft-lb 6430 ft-lb

■Tenaris

API STC

 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	13.375 in.	Wall Thickness	0.380 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	13,375 in.	Drift	12,459 in.
Wall Thickness	0.380 in.	Plain End Weight	52.79 lb/ft
Nominal Weight	54.500 lb/ft	OD Tolerance	API
Nominal ID	12.615 in.		

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	853 x1000 lb
Min. Internal Yield Pressure	2730 psi
Collapse Pressure	1130 psi
Max. Allowed Bending	19 °/100 ft
·	<u> </u>

Connection Data

Geometry		Performance		Make-Up Torques
Thread per In	8	Joint Strength	514 x1000 lb	Minimum Torque
Connection OD	14.375 in.	Coupling Face Load	519 x1000 lb	Optimum Torque
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	2730 psi	Maximum Torque
Tiana ngiri Stana Oli	3.300 III.	Internal Fressule Capacity	2730 psi	maximum rorque

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.

■Tenaris

API STC

 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	13.375 in.	Wall Thickness	0.380 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	13.375 in.	Drift	12.459 in.
Wall Thickness	0.380 in.	Plain End Weight	52.79 lb/ft
Nominal Weight	54.500 lb/ft	OD Tolerance	API
Nominal ID	12.615 in.		

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	853 x1000 lb
Min. Internal Yield Pressure	2730 psi
Collapse Pressure	1130 psi
Max. Allowed Bending	19 °/100 ft

Connection Data

Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	2730 psi	Maximum Torque	6430 ft-lb
Connection OD	14.375 in.	Coupling Face Load	519 x1000 lb	Optimum Torque	5140 ft-lb
Thread per In	8	Joint Strength	514 x1000 lb	Minimum Torque	3860 ft-lb
Geometry		Performance		Make-Up Torques	

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.

Mewbourne Oil Company, Pile Driver 24/13 Fed Com 528H Sec 24, T18S, R33E SHL: 89' FSL 1198' FEL (Sec 24)

SHL: 89' FSL 1198' FEL (Sec 24) BHL: 100' FNL 600' FEL (Sec 13)

Well Location GL: 3909'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 89' FSL & 1198' FEL (Sec 24)	NMNM116167	SESE	24	18S	33E	Lea	32.7261991	- 103.6118829	0'	0'
KOP	KOP: 10' FSL & 600' FEL (Sec 24)	NMNM116167	SESE	24	18S	33E	Lea	32.7259874	- 103.6099379	9,189'	9,213'
FTP	FTP: 100' FSL & 600' FEL (Sec 24)	NMNM116167	SESE	24	18S	33E	Lea	32.7262347	- 103.6099383	9,497'	9,539'
PPP2	PPP2: 2639' FSL & 597' FEL (Sec 24)	NMNM105336532	SENE	24	18S	33E	Lea	32.7332113	- 103.6099373	9,627'	12,174'
PPP3	PPP3: 0' FSL & 597' FEL (Sec 13)	NMLC0063645	SESE	13	18S	33E	Lea	32.7404802	- 103.6099363	9,451'	14,825'
BHL	BHL: 100' FNL & 600' FEL (Sec 13)	NMLC0063645	NENE	13	18S	33E	Lea	32.7546934	- 103.6099343	9,107'	20,007'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	1675'	Dolomite/Anhydrite	Usable Water	Yeso			
Castile				Delaware (Lamar)	5375'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	1945'	Salt	None	Bell Canyon			
Marker Bed 126				Cherry Canyon			
Salt Base	3060'	Salt	None	Manzanita Marker			
Yates	3195'	Sandstone	Oil/Natural Gas	Basal Brushy Canyon			
Seven Rivers	3710'	Dolomite	Oil/Natural Gas	Bone Spring	7505'	Limestone	Oil/Natural Gas
Queen	4405'	Sandstone/Dolomite	Oil/Natural Gas	1st Bone Spring Sand	8795'		
Capitan				2nd Bone Spring Sand	9415'		
Grayburg	5035'			3rd Bone Spring Sand			
San Andres	5160'	Dolomite	Oil/Natural Gas	Wolfcamp			

		Casing Progra	m Design A		BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet	
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	1750'	1750'	13.375" 54.5# J55 STC	1.44	3.49	5.39	8.94
Intermediate	12.25"	0'	0'	3560'	3560'	9.625" 36# J55 LTC	1.13	1.96	2.29	2.85
Intermediate	12.25"	3560'	3560'	4529'	4529'	9.625" 40# J55 LTC	1.13	1.73	7.47	9.05
Intermediate	12.25"	4529'	4529'	5300'	5300'	9.625" 40# L80 LTC	1.16	2.15	23.90	29.70
Production	8.75"	0'	0'	9213'	9189'	7" 26# P110 LTC	1.34	2.15	2.89	3.47
Production	8.5"	9213'	9189'	20007'	9107'	4.5" 13.5# RYS110 CDC HTQ	1.75	2.04	2.94	2.90

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

	Y or N				
Is casing new? If used, attach certification as required in Onshore Order #1	Y				
Is casing API approved? If no, attach casing specification sheet.	Y				
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y				
Does the above casing 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?	Y				
Is well located within Capitan Reef?	N				
is wen recared within Capitan Rect: If yes, does production casing cement tie back a minimum of 50° above the Reef?	18				
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 rd 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?					

Mewbourne Oil Company, Pile Driver 24/13 Fed Com 528H Sec 24, T18S, R33E

SHL: 89' FSL 1198' FEL (Sec 24) BHL: 100' FNL 600' FEL (Sec 13)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	тос/вос	Volume, ft ³	% Excess	Slurry Description
13,375 in	LEAD	1030	12.5	2.12	0' - 1559'	2190	100%	Class C: Salt, Gel, Extender, LCM
13.375 III	TAIL	200	14.8	1.34	1559' - 1750'	268	100%	Class C: Retarder
9.625 in	LEAD	830	12.5	2.12	0' - 4600'	1760	25%	Class C: Salt, Gel, Extender, LCM
9.025 in	TAIL	200	14.8	1.34	4600' - 5300'	268	23%	Class C: Retarder
7 in - 4.5 in	LEAD	360	12.5	2.12	5100' - 7147'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ III - 4.5 III	TAIL	4100	15.6	1.18	7147' - 20007'	4838	2370	Class H: Retarder, Fluid Loss, Defoamer

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	
12.25	13.375	63.6	Pipe Ram	ipe Ram X	5000#	20,007'	
	SM	3IVI	5M Double Ram 5000#	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' - 1750'	8.4 - 8.6	Fresh Water
	1750' - 5300'	8.6 - 9.7	Cut-Brine
	5300' - 9213'	8.6 - 9.7	Cut-Brine
-	0213' 20007'	10.0 12	OPM

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

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
---	-----------------------------

Mewbourne Oil Company, Pile Driver 24/13 Fed Com 528H Sec 24, T18S, R33E SHL: 89' FSL 1198' FEL (Sec 24)

BHL: 100' FNL 600' FEL (Sec 13)

Logging and Testing Procedures

Loggin	g, Coring and Testing.				
37	Will run GR/CNL from KOP (9213') to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the				
Y	BLM.				
N	logs are planned based on well control or offset log information. Offset Well:				
N	Coring? If yes, explain:				

Open & Cased Hole Logs Run In the Well

	Caliper		Cement Bond Log	CNL/FDC
	Compensated Densilog	v	Compensated Neutron Log	Computer Generated Log
	Dip Meter Log	2	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	6091 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material 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
X	H2S Plan attached

Mewbourne Oil Company, Pile Driver 24/13 Fed Com 528H Sec 24, T18S, R33E SHL: 89' FSL 1198' FEL (Sec 24)

BHL: 100' FNL 600' FEL (Sec 13)

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 Progra	m Dociem P			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
		Casing Frogra	iii Desigii b			BLM Millimum Salety Factors	1.125	1.0	1.8 Wet	1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	17.5"	0'	0'	1750'	1750'	13.375" 54.5# J55 STC	1.44	3.49	5.39	8.94
Intermediate	12.25"	0'	0'	3560'	3560'	9.625" 36# J55 LTC	1.13	1.96	2.29	2.85
Intermediate	12.25"	3560'	3560'	4529'	4529'	9.625" 40# J55 LTC	1.13	1.73	7.47	9.05
Intermediate	12.25"	4529'	4529'	5300'	5300'	9.625" 40# L80 LTC	1.16	2.15	23.90	29.70
Production	8.75"	0'	0'	9213'	9189'	7" 26# P110 LTC	1.34	2.15	2.89	3.47
Liner	6.125"	9013'	8997'	20007'	9107'	4.5" 13.5# P110 LTC	1.75	2.04	2.28	2.84

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach easing 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 rd 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?	

Design B - Cement Program

Design D Cer								
Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	TOC/BOC	Volume, ft ³	% Excess	Slurry Description
13.375 in	LEAD	1030	12.5	2.12	0' - 1559'	2190	100%	Class C: Salt, Gel, Extender, LCM
13.375 III	TAIL	200	14.8	1.34	1559' - 1750'	268	100%	Class C: Retarder
9.625 in	LEAD	830	12.5	2.12	0' - 4600'	1760	25%	Class C: Salt, Gel, Extender, LCM
9.025 III	TAIL	200	14.8	1.34	4600' - 5300'	268	2376	Class C: Retarder
1-4 64- 7 1-	LEAD	450	12.5	2.12	5100' - 7311'	960	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
1st Stg 7 in	TAIL	700	15.6	1.18	7311' - 9213'	826	2376	Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	700	13.5	1.85	9013' - 20007'	1300	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent

Mewbourne Oil Company

Lea County, New Mexico NAD 83 Pile Driver 24/13 Fed Com #528H

Sec 24, T18S, R33E

SHL: 89' FSL & 1198' FEL (Sec 24) BHL: 100' FNL & 600' FEL (Sec 13)

Plan: Design #1

Standard Planning Report

04 March, 2025

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Pile Driver 24/13 Fed Com #528H

Well: Sec 24, T18S, R33E
Wellbore: BHL: 100' FNL & 600' FEL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev)

WELL @ 3937.0usft (Original Well Elev)

Minimum Curvature

Project Lea County, New Mexico NAD 83

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Pile Driver 24/13 Fed Com #528H

 Site Position:
 Northing:
 628,677.90 usft
 Latitude:
 32.7261990

 From:
 Map
 Easting:
 763,200.40 usft
 Longitude:
 -103,6118828

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

Well Sec 24, T18S, R33E

Well Position +N/-S 0.0 usft 32.7261990 Northing: 628.677.90 usft Latitude: +E/-W 0.0 usft Easting: 763,200.40 usft Longitude: -103.6118828 0.0 usft Wellhead Elevation: Ground Level: **Position Uncertainty** 3,937.0 usft 3,909.0 usft

Grid Convergence: 0.39 °

Wellbore BHL: 100' FNL & 600' FEL (Sec 13)

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2010
 12/31/2014
 7.20
 60.55
 48,555.28534945

Design Design #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section: Penth From (TVD) +N/-S +F/-W Direction

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

 0.0
 0.0
 0.0
 2.92

Plan Survey Tool Program Date 3/4/2025

Depth From Depth To

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

1 0.0 20,007.7 Design #1 (BHL: 100' FNL & 600'

Plan Sections Vertical Measured Build Dogleg Turn +N/-S Depth Inclination Azimuth Depth +E/-W Rate Rate Rate TFO (usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) Target (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 1,750.0 0.00 0.00 1,750.0 0.0 0.0 0.00 0.00 0.00 0.00 1,989.4 96.94 2.00 2.00 0.00 96.94 4 79 1.989 1 -12 99 -71.7 8,974.5 4.79 96.94 8,949.9 588.7 0.00 0.00 0.00 0.00 9,213.9 0.00 0.00 9,189.0 -72.9 598.6 2.00 -2.00 0.00 180.00 KOP: 10' FSL & 600' I 10,154.2 93.81 359.61 9,762.0 539.5 594.5 9.98 9.98 0.00 -0.39 20,007.7 93.81 359.61 9,107.0 10,371.0 528.4 0.00 0.00 0.00 0.00 BHL: 100' FNL & 600'

Hobbs Database:

Company: Mewbourne Oil Company Lea County, New Mexico NAD 83 Project: Site: Pile Driver 24/13 Fed Com #528H

Well: Sec 24, T18S, R33E BHL: 100' FNL & 600' FEL (Sec 13)

Design: Design #1

Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev) WELL @ 3937 Ousft (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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 89' FSI	_ & 1198' FEL (S	ec 24)							
50.0	0.00	0.00	50.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
750.0	0.00	0.00	750.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
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	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,050.0	0.00	0.00	1,050.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,550.0	0.00	0.00	1,550.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,650.0	0.00	0.00	1,650.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,750.0	0.00	0.00	1,750.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	1.00	96.94	1,800.0	-0.1	0.4	0.0	2.00	2.00	0.00
1,850.0	2.00	96.94	1,850.0	-0.2	1.7	-0.1	2.00	2.00	0.00
1,900.0	3.00	96.94	1,899.9	-0.5	3.9	-0.3	2.00	2.00	0.00
1,950.0	4.00	96.94	1,949.8	-0.8	6.9	-0.5	2.00	2.00	0.00
1,989.4	4.79	96.94	1,989.1	-1.2	9.9	-0.7	2.00	2.00	0.00
1,989.4 2,000.0	4.79 4.79	96.94 96.94	1,989.1 1,999.7	-1.2 -1.3	9.9 10.8	-0.7 -0.8	0.00	0.00	0.00
2,000.0	4.79	96.94 96.94	2,049.5	-1.3 -1.8	14.9		0.00	0.00	0.00
2,050.0	4.79	96.94 96.94	2,049.5	-1.6	19.1	-1.1 -1.4	0.00	0.00	0.00
2,100.0	4.79	96.94 96.94	2,099.3	-2.3 -2.8	23.2	-1.4 -1.6	0.00	0.00	0.00
2,200.0 2,250.0	4.79	96.94	2,199.0	-3.3	27.4	-1.9	0.00	0.00	0.00
	4.79	96.94 96.94	2,248.8	-3.8 4.3	31.5	-2.2 2.5	0.00	0.00	0.00
2,300.0 2,350.0	4.79 4.79	96.94 96.94	2,298.6	-4.3 4.8	35.7 39.8	-2.5 2.8	0.00	0.00	0.00
2,350.0	4.79 4.79	96.94 96.94	2,348.5 2,398.3	-4.8 -5.4	39.8 43.9	-2.8 -3.1	0.00 0.00	0.00 0.00	0.00 0.00
2,450.0	4.79	96.94	2,448.1	-5.9	48.1	-3.4	0.00	0.00	0.00
2,500.0	4.79	96.94	2,497.9 2,547.8	-6.4 -6.9	52.2 56.4	-3.7 -4.0	0.00 0.00	0.00 0.00	0.00 0.00

Database: Hobbs

Company: Mewbourne Oil Company Project: Lea County, New Mexico NAD 83 Pile Driver 24/13 Fed Com #528H Site:

Well: Sec 24, T18S, R33E

BHL: 100' FNL & 600' FEL (Sec 13)

Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev) WELL @ 3937 Ousft (Original Well Elev)

Design:	Design #1								
Planned Survey									
Measured Depth (usft)	Inclination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2 600 0			2.507.6	, ,		4.2	0.00	0.00	0.00
2,600.0 2,650.0	4.79 4.79	96.94 96.94	2,597.6 2,647.4	-7.4 -7.9	60.5 64.7	-4.3 -4.6	0.00 0.00	0.00 0.00	0.00 0.00
2,700.0	4.79	96.94	2,697.2	-8.4	68.8	-4.9	0.00	0.00	0.00
2,750.0	4.79	96.94	2,747.1	-8.9	72.9	-5.2	0.00	0.00	0.00
2,800.0	4.79	96.94	2,796.9	-9.4	77.1	-5.5	0.00	0.00	0.00
2,850.0	4.79	96.94	2,846.7	-9.9	81.2	-5.7	0.00	0.00	0.00
2,900.0	4.79	96.94	2,896.5	-10.4	85.4	-6.0	0.00	0.00	0.00
2,950.0	4.79	96.94	2,946.4	-10.9	89.5	-6.3	0.00	0.00	0.00
3,000.0	4.79	96.94	2,996.2	-11.4	93.7	-6.6	0.00	0.00	0.00
3,050.0	4.79	96.94	3,046.0	-11.9	97.8	-6.9	0.00	0.00	0.00
3,100.0	4.79	96.94	3,095.8	-12.4	101.9	-7.2	0.00	0.00	0.00
3,150.0	4.79	96.94	3,145.7	-12.9	106.1	-7.5	0.00	0.00	0.00
3,200.0	4.79	96.94	3,195.5	-13.4	110.2	-7.8	0.00	0.00	0.00
3,250.0	4.79	96.94	3,245.3	-13.9	114.4	-8.1	0.00	0.00	0.00
3,300.0	4.79	96.94	3,295.1	-14.4	118.5	-8.4	0.00	0.00	0.00
3,350.0	4.79	96.94	3,345.0	-14.9 -15.4	122.7 126.8	-8.7	0.00	0.00	0.00
3,400.0	4.79	96.94	3,394.8			-9.0	0.00	0.00	0.00
3,450.0	4.79	96.94	3,444.6	-15.9	130.9	-9.3	0.00	0.00	0.00
3,500.0	4.79	96.94	3,494.5	-16.5	135.1	-9.6	0.00	0.00	0.00
3,550.0	4.79	96.94	3,544.3	-17.0	139.2	-9.8	0.00	0.00	0.00
3,600.0	4.79	96.94	3,594.1	-17.5	143.4	-10.1	0.00	0.00	0.00
3,650.0	4.79	96.94	3,643.9	-18.0	147.5	-10.4	0.00	0.00	0.00
3,700.0	4.79	96.94	3,693.8	-18.5	151.7	-10.7	0.00	0.00	0.00
3,750.0	4.79	96.94	3,743.6	-19.0	155.8	-11.0	0.00	0.00	0.00
3,800.0	4.79	96.94	3,793.4	-19.5	159.9	-11.3	0.00	0.00	0.00
3,850.0 3,900.0	4.79 4.79	96.94 96.94	3,843.2 3,893.1	-20.0 -20.5	164.1 168.2	-11.6 -11.9	0.00 0.00	0.00 0.00	0.00 0.00
3,950.0 4,000.0	4.79 4.79	96.94 96.94	3,942.9 3,992.7	-21.0 -21.5	172.4 176.5	-12.2 -12.5	0.00 0.00	0.00 0.00	0.00 0.00
4,050.0	4.79 4.79	96.94 96.94	3,992.7 4,042.5	-21.5 -22.0	176.5	-12.5 -12.8	0.00	0.00	0.00
4,000.0	4.79	96.94	4,092.4	-22.5	184.8	-12.6 -13.1	0.00	0.00	0.00
4,150.0	4.79	96.94	4,142.2	-23.0	188.9	-13.4	0.00	0.00	0.00
4,200.0	4.79	96.94	4,192.0	-23.5	193.1	-13.7	0.00	0.00	0.00
4,250.0	4.79	96.94	4,241.8	-24.0	197.2	-14.0	0.00	0.00	0.00
4,300.0	4.79	96.94	4,291.7	-24.5	201.4	-14.2	0.00	0.00	0.00
4,350.0	4.79	96.94	4,341.5	-25.0	205.5	-14.5	0.00	0.00	0.00
4,400.0	4.79	96.94	4,391.3	-25.5	209.7	-14.8	0.00	0.00	0.00
4,450.0	4.79	96.94	4,441.1	-26.0	213.8	-15.1	0.00	0.00	0.00
4,500.0	4.79	96.94	4,491.0	-26.5	217.9	-15.4	0.00	0.00	0.00
4,550.0	4.79	96.94	4,540.8	-27.0	222.1	-15.7	0.00	0.00	0.00
4,600.0	4.79	96.94	4,590.6	-27.6	226.2	-16.0	0.00	0.00	0.00
4,650.0	4.79	96.94	4,640.4	-28.1	230.4	-16.3	0.00	0.00	0.00
4,700.0	4.79	96.94	4,690.3	-28.6	234.5	-16.6	0.00	0.00	0.00
4,750.0	4.79	96.94	4,740.1	-29.1	238.7	-16.9	0.00	0.00	0.00
4,800.0	4.79	96.94	4,789.9	-29.6	242.8	-17.2	0.00	0.00	0.00
4,850.0	4.79	96.94	4,839.7	-30.1	246.9	-17.5	0.00	0.00	0.00
4,900.0	4.79	96.94	4,889.6	-30.6	251.1	-17.8	0.00	0.00	0.00
4,950.0	4.79	96.94	4,939.4	-31.1	255.2	-18.1	0.00	0.00	0.00
5,000.0	4.79	96.94	4,989.2	-31.6	259.4	-18.3	0.00	0.00	0.00
5,050.0	4.79	96.94	5,039.0	-32.1	263.5	-18.6	0.00	0.00	0.00
5,100.0	4.79	96.94	5,088.9	-32.6	267.7	-18.9	0.00	0.00	0.00
5,150.0	4.79	96.94	5,138.7	-33.1	271.8	-19.2	0.00	0.00	0.00
5,200.0	4.79	96.94	5,188.5	-33.6	275.9	-19.5	0.00	0.00	0.00
5,250.0	4.79	96.94	5,238.3	-34.1	280.1	-19.8	0.00	0.00	0.00

TVD Reference:

Database: Hobbs

Company: Mewbourne Oil Company Project: Lea County, New Mexico NAD 83 Pile Driver 24/13 Fed Com #528H Site:

Well: Sec 24, T18S, R33E Wellbore: BHL: 100' FNL & 600' FEL (Sec 13)

MD Reference: North Reference:

Survey Calculation Method:

Local Co-ordinate Reference:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev) WELL @ 3937 Ousft (Original Well Elev)

Minimum Curvature

gn:	Design #1								
ned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5,300.0	4.79	96.94	5,288.2	-34.6	284.2	-20.1	0.00	0.00	0.00
5,350.0	4.79	96.94	5,338.0	-35 1	288.4	-20.4	0.00	0.00	0.00
5,400.0	4.79	96.94	5,387.8	-35.6	292.5	-20.7	0.00	0.00	0.00
5,450.0	4.79	96.94	5,437.6	-36.1	296.7	-21.0	0.00	0.00	0.00
5,500.0	4.79	96.94	5,487.5	-36.6	300.8	-21.3	0.00	0.00	0.00
5,550.0	4.79	96.94	5,537.3	-37.1	304.9	-21.6	0.00	0.00	0.00
5,600.0	4.79	96.94	5,587.1	-37.6	309.1	-21.0 -21.9	0.00	0.00	0.00
5,650.0	4.79	96.94	5,636.9	-38.1	313.2	-21.3	0.00	0.00	0.00
5,700.0	4.79	96.94	5,686.8	-38.7	317.4	-22.5	0.00	0.00	0.00
5,750.0	4.79	96.94	5,736.6	-39.2	321.5	-22.7	0.00	0.00	0.00
5,800.0	4.79	96.94	5,786.4	-39.7	325.7	-23.0	0.00	0.00	0.00
5,850.0	4.79	96.94	5,836.2	-40.2	329.8	-23.3	0.00	0.00	0.00
5,900.0	4.79	96.94	5,886.1	-40.7	333.9	-23.6	0.00	0.00	0.00
E 0E0 0	4.79	06.04	E 02E 0	44.0	220 4	22.0	0.00	0.00	0.00
5,950.0		96.94	5,935.9	-41.2	338.1	-23.9	0.00	0.00	0.00
6,000.0	4.79	96.94	5,985.7	-41.7	342.2	-24.2	0.00	0.00	0.00
6,050.0	4.79	96.94	6,035.6	-42.2	346.4	-24.5	0.00	0.00	0.00
6,100.0	4.79	96.94	6,085.4	-42.7	350.5	-24.8	0.00	0.00	0.00
6,150.0	4.79	96.94	6,135.2	-43.2	354.6	-25.1	0.00	0.00	0.00
6,200.0	4.79	96.94	6,185.0	-43.7	358.8	-25.4	0.00	0.00	0.00
6,250.0	4.79	96.94	6,234.9	-44.2	362.9	-25.7	0.00	0.00	0.00
6,300.0	4.79	96.94	6,284.7	-44.7	367.1	-26.0	0.00	0.00	0.00
6,350.0	4.79	96.94	6,334.5	-45.2	371.2	-26.3	0.00	0.00	0.00
6,400.0	4.79	96.94	6,384.3	-45.7	375.4	-26.6	0.00	0.00	0.00
6,450.0	4.79	96.94	6,434.2	-46.2	379.5	-26.8	0.00	0.00	0.00
6,500.0	4.79	96.94	6,484.0	-46.7	383.6	-27.1	0.00	0.00	0.00
6,550.0	4.79	96.94	6,533.8	-47.2	387.8	-27.4	0.00	0.00	0.00
6,600.0	4.79	96.94	6,583.6	-47.7	391.9	-27.7	0.00	0.00	0.00
6,650.0	4.79	96.94	6,633.5	-48.2	396.1	-28.0	0.00	0.00	0.00
6,700.0	4.79	96.94	6,683.3	-48.7	400.2	-28.3	0.00	0.00	0.00
6,750.0	4.79	96.94	6,733.1	-49.2	404.4	-28.6	0.00	0.00	0.00
6,800.0	4.79	96.94	6,782.9	-49.7	408.5	-28.9	0.00	0.00	0.00
	4.79	96.94	6,832.8	-50.3			0.00		
6,850.0 6,900.0	4.79	96.94 96.94	6,882.6	-50.3 -50.8	412.6 416.8	-29.2 -29.5	0.00	0.00 0.00	0.00 0.00
0,900.0	4.79	90.94	0,00∠.0		410.0	-∠9.5	0.00	0.00	0.00
6,950.0	4.79	96.94	6,932.4	-51.3	420.9	-29.8	0.00	0.00	0.00
7,000.0	4.79	96.94	6,982.2	-51.8	425.1	-30.1	0.00	0.00	0.00
7,050.0	4.79	96.94	7,032.1	-52.3	429.2	-30.4	0.00	0.00	0.00
7,100.0	4.79	96.94	7,081.9	-52.8	433.4	-30.7	0.00	0.00	0.00
7,150.0	4.79	96.94	7,131.7	-53.3	437.5	-31.0	0.00	0.00	0.00
7,200.0	4.79	96.94	7,181.5	-53.8	441.6	-31.2	0.00	0.00	0.00
7,200.0 7,250.0	4.79	96.94 96.94	7,161.5 7,231.4	-53.6 -54.3	441.6	-31.2 -31.5	0.00	0.00	0.00
7,250.0	4.79	96.94 96.94	7,231.4 7,281.2	-54.3 -54.8	445.6 449.9	-31.5 -31.8	0.00	0.00	0.00
7,350.0	4.79	96.94	7,331.0	-55.3	454.1	-32.1	0.00	0.00	0.00
7,400.0	4.79	96.94	7,380.8	-55.8	458.2	-32.4	0.00	0.00	0.00
7,450.0	4.79	96.94	7,430.7	-56.3	462.4	-32.7	0.00	0.00	0.00
7,500.0	4.79	96.94	7,480.5	-56.8	466.5	-33.0	0.00	0.00	0.00
7,550.0	4.79	96.94	7,530.3	-57.3	470.6	-33.3	0.00	0.00	0.00
7,600.0	4.79	96.94	7,580.1	-57.8	474.8	-33.6	0.00	0.00	0.00
7,650.0	4.79	96.94	7,630.0	-58.3	478.9	-33.9	0.00	0.00	0.00
,									
7,700.0	4.79	96.94	7,679.8	-58.8	483.1	-34.2	0.00	0.00	0.00
7,750.0	4.79	96.94	7,729.6	-59.3	487.2	-34.5	0.00	0.00	0.00
7,800.0	4.79	96.94	7,779.4	-59.8	491.4	-34.8	0.00	0.00	0.00
7,850.0	4.79	96.94	7,829.3	-60.3	495.5	-35.1	0.00	0.00	0.00
7,900.0	4.79	96.94	7,879.1	-60.8	499.6	-35.3	0.00	0.00	0.00
7.050.0	4.70	06.04	7 029 0	61.4	502.9	25.6	0.00	0.00	0.00

503.8

-35.6

0.00

0.00

0.00

-61.4

4.79

96.94

7,928.9

7,950.0

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Pile Driver 24/13 Fed Com #528H

 Well:
 Sec 24, T18S, R33E

 Wellbore:
 BHL: 100' FNL & 600' FEL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev) WELL @ 3937.0usft (Original Well Elev)

lanned 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	4.79	96.94	7,978.7	-61.9	507.9	-35.9	0.00	0.00	0.00
8,050.0	4.79	96.94	8,028.6	-62.4	512.1	-36.2	0.00	0.00	0.00
8,100.0	4.79	96.94	8,078.4	-62.9	516.2	-36.5	0.00	0.00	0.00
8,150.0	4.79	96.94	8,128.2	-63.4	520.4	-36.8	0.00	0.00	0.00
8,200.0	4.79	96.94	8,178.0	-63.9	524.5	-37.1	0.00	0.00	0.00
8,250.0	4.79	96.94	8,227.9	-64.4	528.6	-37.4	0.00	0.00	0.00
8,300.0	4.79	96.94	8,277.7	-64.9	532.8	-37.7	0.00	0.00	0.00
8,350.0	4.79	96.94	8,327.5	-65.4	536.9	-38.0	0.00	0.00	0.00
8,400.0	4.79	96.94	8,377.4	-65.9	541.1	-38.3	0.00	0.00	0.00
8,450.0	4.79	96.94	8,427.2	-66.4	545.2	-38.6	0.00	0.00	0.00
8,500.0	4.79	96.94	8,477.0	-66.9	549.4	-38.9	0.00	0.00	0.00
8,550.0	4.79	96.94	8,526.8	-67.4	553.5	-39.2	0.00	0.00	0.00
8,600.0	4.79	96.94	8,576.7	-67.9	557.6	-39.4	0.00	0.00	0.00
8,650.0	4.79	96.94	8,626.5	-68.4	561.8	-39.7	0.00	0.00	0.00
8,700.0	4.79	96.94	8,676.3	-68.9	565.9	-40.0	0.00	0.00	0.00
8,750.0	4.79	96.94	8,726.1	-69.4	570.1	-40.3	0.00	0.00	0.00
8,800.0	4.79	96.94	8,776.0	-69.9	574.2	-40.6	0.00	0.00	0.00
8,850.0	4.79	96.94	8,825.8	-70.4	578.4	-40.9	0.00	0.00	0.00
8,900.0	4.79	96.94	8,875.6	-70. 4 -70.9	582.5	-4 1.2	0.00	0.00	0.00
8,950.0	4.79	96.94	8,925.4	-71.4	586.6	-41.5	0.00	0.00	0.00
8,930.0 8.974.5								0.00	
,	4.79	96.94	8,949.9	-71.7 -71.0	588.7	-41.6	0.00		0.00
9,000.0	4.28	96.94	8,975.3	-71.9	590.7	-41.8	2.00	-2.00	0.00
9,050.0	3.28	96.94	9,025.2	-72.3	593.9	-42.0	2.00	-2.00	0.00
9,100.0	2.28	96.94	9,075.1	-72.6	596.4	-42.2	2.00	-2.00	0.00
9,150.0	1.28	96.94	9,125.1	- 72.8	597.9	-42.3	2.00	-2.00	0.00
9,200.0	0.28	96.94	9,175.1	-72.9	598.6	-42.3	2.00	-2.00	0.00
9,213.9	0.00	0.00	9,189.0	- 72.9	598.6	-42.3	2.00	-2.00	0.00
KOP: 10' FS	SL & 600' FEL (Se	ec 24)							
9,250.0	3.60	359.61	9,225.0	- 71.8	598.6	-41.2	9.98	9.98	0.00
9,300.0	8.59	359.61	9,274.7	-66.5	598.6	-35.9	9.98	9.98	0.00
9,350.0	13.58	359.61	9,323.8	-56.9	598.5	-26.3	9.98	9.98	0.00
9,400.0	18.56	359.61	9,371.8	-43.0	598.4	-12.5	9.98	9.98	0.00
9,450.0	23.55	359.61	9,418.5	-25.1	598.3	5.4	9.98	9.98	0.00
9,500.0	28.54	359.61	9,463.4	-3.1	598.1	27.3	9.98	9.98	0.00
9,539.8	32.51	359.61	9,497.7	17.1	598.0	47.5	9.98	9.98	0.00
	SL & 600' FEL (S		9,497.7	17.1	390.0	47.5	9.90	9.90	0.00
	•	,							
9,550.0	33.53	359.61	9,506.2	22.7	598.0	53.1	9.98	9.98	0.00
9,600.0	38.52	359.61	9,546.6	52.1	597.8	82.4	9.98	9.98	0.00
9,650.0	43.51	359.61	9,584.4	84.9	597.5	115.2	9.98	9.98	0.00
9,700.0	48.50	359.61	9,619.1	120.8	597.3	151.0	9.98	9.98	0.00
9,750.0	53.48	359.61	9,650.5	159.6	597.0	189.8	9.98	9.98	0.00
9,800.0	58.47	359.61	9,678.5	201.1	596.8	231.2	9.98	9.98	0.00
9,850.0	63.46	359.61	9,702.8	244.8	596.5	274.8	9.98	9.98	0.00
9,900.0	68.45	359.61	9,723.1	290.4	596.2	320.4	9.98	9.98	0.00
9,950.0	73.44	359.61	9,739.4	337.7	595.8	367.6	9.98	9.98	0.00
10,000.0	78.43	359.61	9,751.6	386.2	595.5	416.0	9.98	9.98	0.00
10,050.0	83.42	359.61	9,759.5	435.5	595.2	465.2	9.98	9.98	0.00
10,100.0	88.40	359.61	9,763.0	485.4	594.8	515.0	9.98	9.98	0.00
10,114.7	89.87	359.61	9,763.3	500.1	594.7	529.7	9.98	9.98	0.00
	L & 600' FEL (See	•	0.762.3	525.2	501 F	564.0	0.09	0.09	0.00
10,150.0	93.39	359.61	9,762.3	535.3	594.5	564.9 560.1	9.98	9.98	0.00
10,154.2	93.81	359.61	9,762.0	539.5	594.5	569.1	9.98	9.98	0.00
10,200.0	93.81	359.61	9,759.0	585.2	594.2	614.7	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Lea County, New Mexico NAD 83
Site: Pile Driver 24/13 Fed Com #528H

 Well:
 Sec 24, T18S, R33E

 Wellbore:
 BHL: 100' FNL & 600' FEL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev) WELL @ 3937.0usft (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)					
` '				, ,	•	, ,	, , , , , , , , , , , , , , , , , , ,	· · · · · ·	, ,					
10,250.0	93.81	359.61	9,755.6	635.1	593.8	664.5	0.00	0.00	0.00					
10,300.0	93.81	359.61	9,752.3	685.0	593.5	714.3	0.00	0.00	0.00					
10,350.0	93.81	359.61	9,749.0	734.9	593.2	764.1	0.00	0.00	0.00					
10,400.0	93.81	359.61	9,745.7	784.8	592.8	813.9	0.00	0.00	0.00					
10,450.0	93.81	359.61	9,742.3	834.7	592.5	863.7	0.00	0.00	0.00					
10,500.0	93.81	359.61	9,739.0	884.6	592.2	913.5	0.00	0.00	0.00					
10,550.0	93.81	359.61	9,735.7	934.5	591.8	963.4	0.00	0.00	0.00					
10,600.0	93.81	359.61	9,732.4	984.3	591.5	1,013.2	0.00	0.00	0.00					
10,650.0	93.81	359.61	9,729.0	1,034.2	591.2	1,063.0	0.00	0.00	0.00					
10,030.0	93.01	339.01	9,729.0	1,034.2	391.2	1,003.0	0.00	0.00	0.00					
10,700.0	93.81	359.61	9,725.7	1,084.1	590.8	1,112.8	0.00	0.00	0.00					
10,750.0	93.81	359.61	9,722.4	1,134.0	590.5	1,162.6	0.00	0.00	0.00					
10,800.0	93.81	359.61	9,719.1	1,183.9	590.2	1,212.4	0.00	0.00	0.00					
10,850.0	93.81	359.61	9,715.7	1,233.8	589.8	1,262.2	0.00	0.00	0.00					
10,900.0	93.81	359.61	9,712.4	1,283.7	589.5	1,312.0	0.00	0.00	0.00					
10,950.0	93.81	359.61	9,709.1	1,333.6	589.1	1,361.8	0.00	0.00	0.00					
11,000.0	93.81	359.61	9,705.8	1,383.4	588.8	1,411.6	0.00	0.00	0.00					
11,050.0	93.81	359.61	9,702.5	1,433.3	588.5	1,461.4	0.00	0.00	0.00					
11,100.0	93.81	359.61	9,699.1	1,483.2	588.1	1,511.2	0.00	0.00	0.00					
11,150.0	93.81	359.61	9,695.8	1,533.1	587.8	1,561.0	0.00	0.00	0.00					
11,200.0	93.81	359.61	9,692.5	1,583.0	587.5	1,610.8	0.00	0.00	0.00					
11,250.0	93.81	359.61	9,689.2	1,632.9	587.1	1,660.6	0.00	0.00	0.00					
11,300.0	93.81	359.61	9,685.8	1,682.8	586.8	1,710.5	0.00	0.00	0.00					
11,350.0	93.81	359.61	9,682.5	1,732.7	586.5	1,760.3	0.00	0.00	0.00					
11,400.0	93.81	359.61	9,679.2	1,782.6	586.1	1,810.1	0.00	0.00	0.00					
44.450.0	00.04	050.04	0.075.0	1 000 1	505.0	4.050.0			2.22					
11,450.0	93.81	359.61	9,675.9	1,832.4	585.8	1,859.9	0.00	0.00	0.00					
11,500.0	93.81	359.61	9,672.5	1,882.3	585.5	1,909.7	0.00	0.00	0.00					
11,550.0	93.81	359.61	9,669.2	1,932.2	585.1	1,959.5	0.00	0.00	0.00					
11,600.0	93.81	359.61	9,665.9	1,982.1	584.8	2,009.3	0.00	0.00	0.00					
11,650.0	93.81	359.61	9,662.6	2,032.0	584.5	2,059.1	0.00	0.00	0.00					
11,700.0	93.81	359.61	9,659.2	2,081.9	584.1	2,108.9	0.00	0.00	0.00					
	93.81						0.00	0.00	0.00					
11,750.0		359.61	9,655.9	2,131.8	583.8	2,158.7								
11,800.0	93.81	359.61	9,652.6	2,181.7	583.4	2,208.5	0.00	0.00	0.00					
11,850.0	93.81	359.61	9,649.3	2,231.5	583.1	2,258.3	0.00	0.00	0.00					
11,900.0	93.81	359.61	9,645.9	2,281.4	582.8	2,308.1	0.00	0.00	0.00					
11,950.0	93.81	359.61	9,642.6	2,331.3	582.4	2,357.9	0.00	0.00	0.00					
12,000.0	93.81	359.61	9,639.3	2,381.2	582.1	2,407.7	0.00	0.00	0.00					
12,050.0	93.81	359.61	9,636.0	2,431.1	581.8	2,457.6	0.00	0.00	0.00					
12,100.0	93.81	359.61	9,636.0	2,481.0	581.4	2,437.6	0.00	0.00	0.00					
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12,150.0	93.81	359.61	9,629.3	2,530.9	581.1	2,557.2	0.00	0.00	0.00					
12,174.5	93.81	359.61	9,627.7	2,555.3	580.9	2,581.5	0.00	0.00	0.00					
	' FSL & 597' FEL			•										
12,200.0	93.81	359.61	9,626.0	2,580.8	580.8	2,607.0	0.00	0.00	0.00					
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12,250.0	93.81	359.61	9,622.7	2,630.7	580.4	2,656.8	0.00	0.00	0.00					
12,300.0	93.81	359.61	9,619.4	2,680.5	580.1	2,706.6	0.00	0.00	0.00					
12,350.0	93.81	359.61	9,616.0	2,730.4	579.8	2,756.4	0.00	0.00	0.00					
12,400.0	93.81	359.61	9,612.7	2,780.3	579.4	2,806.2	0.00	0.00	0.00					
12,450.0	93.81	359.61	9,609.4	2,830.2	579.1	2,856.0	0.00	0.00	0.00					
12,500.0				2,880.1		2,836.0		0.00	0.00					
	93.81	359.61	9,606.1	,	578.8		0.00							
12,550.0	93.81	359.61	9,602.7	2,930.0	578.4	2,955.6	0.00	0.00	0.00					
12,600.0	93.81	359.61	9,599.4	2,979.9	578.1	3,005.4	0.00	0.00	0.00					
12.650.0	93.81	359.61	9,596.1	3,029.8	577.7	3,055.2	0.00	0.00	0.00					
12,700.0	93.81	359.61	9,592.8	3,079.6	577.4	3,105.0	0.00	0.00	0.00					
12,750.0	93.81	359.61	9,589.4	3,129.5	577.4 577.1	3,154.8	0.00	0.00	0.00					
12,800.0	93.81	359.61	9,586.1	3,179.4	576.7	3,204.7	0.00	0.00	0.00					

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Pile Driver 24/13 Fed Com #528H

 Well:
 Sec 24, T18S, R33E

 Wellbore:
 BHL: 100' FNL & 600' FEL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev) WELL @ 3937.0usft (Original Well Elev)

Grid

aigii.	DC3igi1#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)
12,850.0	93.81	359.61	9,582.8	3,229.3	576.4	3,254.5	0.00	0.00	0.00
12,900.0	93.81	359.61	9,579.5	3,279.2	576.1	3,304.3	0.00	0.00	0.00
12,950.0	93.81	359.61	9,576.2	3,329.1	575.7	3,354.1	0.00	0.00	0.00
13,000.0	93.81	359.61	9,572.8	3,379.0	575.4	3,403.9	0.00	0.00	0.00
13,050.0	93.81	359.61	9,569.5	3,428.9	575.1	3,453.7	0.00	0.00	0.00
13,100.0	93.81	359.61	9,566.2	3,478.8	574.7	3,503.5	0.00	0.00	0.00
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13,150.0	93.81	359.61	9,562.9	3,528.6	574.4	3,553.3	0.00	0.00	0.00
13,200.0	93.81	359.61	9,559.5	3,578.5	574.1	3,603.1	0.00	0.00	0.00
13,250.0	93.81	359.61	9,556.2	3,628.4	573.7	3,652.9	0.00	0.00	0.00
13,300.0	93.81	359.61	9,552.9	3,678.3	573.4	3,702.7	0.00	0.00	0.00
13,350.0	93.81	359.61	9,549.6	3,728.2	573.1	3,752.5	0.00	0.00	0.00
13,400.0	93.81	359.61	9,546.2	3,778.1	572.7	3,802.3	0.00	0.00	0.00
13,450.0	93.81	359.61	9,542.9	3,828.0	572.4	3,852.1	0.00	0.00	0.00
13,500.0	93.81	359.61	9,539.6	3,877.9	572.0	3,901.9	0.00	0.00	0.00
13,550.0	93.81	359.61	9,536.3	3,927.7	571.7	3,951.8	0.00	0.00	0.00
13.600.0	93.81	359.61	9,532.9	3,977.6	571.4	4,001.6	0.00	0.00	0.00
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13,650.0	93.81	359.61	9,529.6	4,027.5	571.0	4,051.4	0.00	0.00	0.00
13,700.0	93.81	359.61	9,526.3	4,077.4	570.7	4,101.2	0.00	0.00	0.00
13,750.0	93.81	359.61	9,523.0	4,127.3	570.4	4,151.0	0.00	0.00	0.00
13,800.0	93.81	359.61	9,519.6	4,177.2	570.0	4,200.8	0.00	0.00	0.00
13,850.0	93.81	359.61	9,516.3	4,227.1	569.7	4,250.6	0.00	0.00	0.00
13,900.0	93.81	359.61	9,513.0	4,277.0	569.4	4,300.4	0.00	0.00	0.00
13,950.0	93.81	359.61	9,509.7	4,326.9	569.0	4,350.2	0.00	0.00	0.00
14,000.0	93.81	359.61	9,506.4	4,376.7	568.7	4,400.0	0.00	0.00	0.00
14,050.0	93.81	359.61	9,503.0	4,426.6	568.4	4,449.8	0.00	0.00	0.00
14,100.0	93.81	359.61	9,499.7	4,476.5	568.0	4,499.6	0.00	0.00	0.00
14,150.0	93.81	359.61	9,496.4	4,526.4	567.7	4,549.4	0.00	0.00	0.00
14,200.0	93.81	359.61	9,493.1	4,576.3	567.3	4,599.2	0.00	0.00	0.00
14,250.0	93.81	359.61	9,489.7	4,626.2	567.0	4,649.0	0.00	0.00	0.00
14,300.0	93.81	359.61	9,486.4	4,676.1	566.7	4,698.8	0.00	0.00	0.00
14,350.0	93.81	359.61	9,483.1	4,726.0	566.3	4,748.7	0.00	0.00	0.00
14,400.0	93.81	359.61	9,479.8	4,775.8	566.0	4,798.5	0.00	0.00	0.00
14,450.0	93.81	359.61	9,476.4	4,825.7	565.7	4,848.3	0.00	0.00	0.00
14,500.0	93.81	359.61	9,473.1	4,875.6	565.3	4,898.1	0.00	0.00	0.00
14,550.0	93.81	359.61	9,469.8	4,925.5	565.0	4,947.9	0.00	0.00	0.00
14,600.0	93.81	359.61	9,466.5	4,975.4	564.7	4,997.7	0.00	0.00	0.00
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14,650.0	93.81	359.61	9,463.1	5,025.3	564.3	5,047.5	0.00	0.00	0.00
14,700.0	93.81	359.61	9,459.8	5,075.2	564.0	5,097.3	0.00	0.00	0.00
14,750.0	93.81	359.61	9,456.5	5,125.1	563.7	5,147.1	0.00	0.00	0.00
14,800.0	93.81	359.61	9,453.2	5,175.0	563.3	5,196.9	0.00	0.00	0.00
14,825.0	93.81	359.61	9,451.5	5,199.9	563.2	5,221.8	0.00	0.00	0.00
	SL & 597' FEL (Se	•							
14,850.0	93.81	359.61	9,449.9	5,224.8	563.0	5,246.7	0.00	0.00	0.00
14,900.0	93.81	359.61	9,446.5	5,274.7	562.7	5,296.5	0.00	0.00	0.00
14,950.0	93.81	359.61	9,443.2	5,324.6	562.3	5,346.3	0.00	0.00	0.00
15,000.0	93.81	359.61	9,439.9	5,374.5	562.0	5,396.1	0.00	0.00	0.00
15,050.0	93.81	359.61	9,436.6	5,424.4	561.6	5,445.9	0.00	0.00	0.00
15,100.0	93.81	359.61	9,433.2	5,474.3	561.3	5,495.8	0.00	0.00	0.00
15,150.0	93.81	359.61	9,429.9	5,524.2	561.0	5,545.6	0.00	0.00	0.00
15,200.0	93.81	359.61	9,426.6	5,574.1	560.6	5,595.4	0.00	0.00	0.00
15,250.0	93.81	359.61	9,423.3	5,623.9	560.3	5,645.2	0.00	0.00	0.00
15,300.0	93.81	359.61	9,419.9	5,673.8	560.0	5,695.0	0.00	0.00	0.00
15,350.0	93.81	359.61	9,416.6	5,723.7	559.6	5,744.8	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Pile Driver 24/13 Fed Com #528H

Well: Sec 24, T18S, R33E

Wellbore: BHL: 100' FNL & 600' FEL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev) WELL @ 3937.0usft (Original Well Elev)

Grid

Jesign:	Design #1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,400.0	93.81	359.61	9,413.3	5,773.6	559.3	5,794.6	0.00	0.00	0.00
15,450.0	93.81	359.61	9,410.0	5,823.5	559.0	5,844.4	0.00	0.00	0.00
15,500.0	93.81	359.61	9,406.6	5,873.4	558.6	5,894.2	0.00	0.00	0.00
15,550.0	93.81	359.61	9,403.3	5,923.3	558.3	5,944.0	0.00	0.00	0.00
15,600.0	93.81	359.61	9,400.0	5,973.2	558.0	5,993.8	0.00	0.00	0.00
15,650.0	93.81	359.61	9,396.7	6,023.1	557.6	6,043.6	0.00	0.00	0.00
15,700.0	93.81	359.61	9,393.3	6,072.9	557.3	6,093.4	0.00	0.00	0.00
15,750.0	93.81	359.61	9,390.0	6,122.8	557.0	6,143.2	0.00	0.00	0.00
15,800.0	93.81	359.61	9,386.7	6,172.7	556.6	6,193.0	0.00	0.00	0.00
15,850.0	93.81	359.61	9,383.4	6,222.6	556.3	6,242.9	0.00	0.00	0.00
15,900.0	93.81	359.61	9,380.1	6,272.5	555.9	6,292.7	0.00	0.00	0.00
15,950.0	93.81	359.61	9,376.7	6,322.4	555.6	6,342.5	0.00	0.00	0.00
16,000.0	93.81	359.61	9,373.4	6,372.3	555.3	6,392.3	0.00	0.00	0.00
16,050.0	93.81	359.61	9,370.1	6,422.2	554.9	6,442.1	0.00	0.00	0.00
16,100.0	93.81	359.61	9,366.8	6,472.0	554.6	6,491.9	0.00	0.00	0.00
16,150.0	93.81	359.61	9,363.4	6,521.9	554.3	6,541.7	0.00	0.00	0.00
16,200.0	93.81	359.61	9,360.1	6,571.8	553.9	6,591.5	0.00	0.00	0.00
16,250.0	93.81	359.61	9,356.8	6,621.7	553.6	6,641.3	0.00	0.00	0.00
16,300.0	93.81	359.61	9,353.5	6,671.6	553.3	6,691.1	0.00	0.00	0.00
16,350.0	93.81	359.61	9,350.1	6,721.5	552.9	6,740.9	0.00	0.00	0.00
16,400.0	93.81	359.61	9,346.8	6,771.4	552.6	6.790.7	0.00	0.00	0.00
16,450.0	93.81	359.61	9,343.5	6,821.3	552.3	6,840.5	0.00	0.00	0.00
16,500.0	93.81	359.61	9,340.2	6.871.2	551.9	6,890.3	0.00	0.00	0.00
16,550.0	93.81	359.61	9,336.8	6,921.0	551.6	6,940.1	0.00	0.00	0.00
16,600.0	93.81	359.61	9,333.5	6,970.9	551.3	6,990.0	0.00	0.00	0.00
16,650.0	93.81	359.61	9,330.2	7,020.8	550.9	7,039.8	0.00	0.00	0.00
16,700.0	93.81	359.61	9,326.9	7,070.7	550.6	7,089.6	0.00	0.00	0.00
16,750.0	93.81	359.61	9,323.6	7,120.6	550.2	7,139.4	0.00	0.00	0.00
16,800.0	93.81	359.61	9,320.2	7,170.5	549.9	7,189.2	0.00	0.00	0.00
16,850.0	93.81	359.61	9,316.9	7,220.4	549.6	7,239.0	0.00	0.00	0.00
16,900.0	93.81	359.61	9,313.6	7,270.3	549.2	7,288.8	0.00	0.00	0.00
16,950.0	93.81	359.61	9,310.3	7,320.2	548.9	7,338.6	0.00	0.00	0.00
17,000.0	93.81	359.61	9,306.9	7,370.0	548.6	7,388.4	0.00	0.00	0.00
17,050.0	93.81	359.61	9,303.6	7,419.9	548.2	7,438.2	0.00	0.00	0.00
17,100.0	93.81	359.61	9,300.3	7,469.8	547.9	7,488.0	0.00	0.00	0.00
17,150.0	93.81	359.61	9,297.0	7,519.7	547.6	7,537.8	0.00	0.00	0.00
17,200.0	93.81	359.61	9,293.6	7,569.6	547.2	7,587.6	0.00	0.00	0.00
17,250.0	93.81	359.61	9,290.3	7,619.5	546.9	7,637.4	0.00	0.00	0.00
17,300.0	93.81	359.61	9,287.0	7,669.4	546.6	7,687.2	0.00	0.00	0.00
17,350.0	93.81	359.61	9,283.7	7,719.3	546.2	7,737.1	0.00	0.00	0.00
17,400.0	93.81	359.61	9,280.3	7,719.3	545.9	7,786.9	0.00	0.00	0.00
17,450.0	93.81	359.61	9,277.0	7,819.0	545.6	7,736.3	0.00	0.00	0.00
17,500.0	93.81	359.61	9,273.7	7,868.9	545.2	7,886.5	0.00	0.00	0.00
17,550.0	93.81	359.61	9,270.4	7,918.8	544.9	7,936.3	0.00	0.00	0.00
17,600.0	93.81	359.61	9,267.0	7,968.7	544.5	7,986.1	0.00	0.00	0.00
17,650.0	93.81	359.61	9,263.7	8,018.6	544.2	8,035.9	0.00	0.00	0.00
17,700.0	93.81	359.61 359.61	9,260.4	8,068.5	543.9	8,085.7 8 135.5	0.00	0.00	0.00
17,750.0 17,800.0	93.81	359.61 359.61	9,257.1	8,118.4 8,168.3	543.5 543.2	8,135.5 8,185.3	0.00	0.00	0.00
	93.81	359.61	9,253.8	·	543.2	0, 100.3	0.00	0.00	0.00
17,850.0	93.81	359.61	9,250.4	8,218.1	542.9	8,235.1	0.00	0.00	0.00
17,900.0	93.81	359.61	9,247.1	8,268.0	542.5	8,284.9	0.00	0.00	0.00
17,950.0	93.81	359.61	9,243.8	8,317.9	542.2	8,334.7	0.00	0.00	0.00
18,000.0	93.81	359.61	9,240.5	8,367.8	541.9	8,384.5	0.00	0.00	0.00
18,050.0	93.81	359.61	9,237.1	8,417.7	541.5	8,434.3	0.00	0.00	0.00

Database: Hobbs

Company:Mewbourne Oil CompanyProject:Lea County, New Mexico NAD 83Site:Pile Driver 24/13 Fed Com #528H

Well: Sec 24, T18S, R33E
Wellbore: BHL: 100' FNL & 600' FEL (Sec 13)

Design: Design #1

ourne Oil Company
TVD Reference:
bunty, New Mexico NAD 83
MD Reference:
iver 24/13 Fed Com #528H
North Reference:

Survey Calculation Method:

Local Co-ordinate Reference:

Site Pile Driver 24/13 Fed Com #528H WELL @ 3937.0usft (Original Well Elev) WELL @ 3937.0usft (Original Well Elev)

Measured Depth (usft) 18,100.0 18,150.0 18,250.0 18,250.0 18,350.0 18,350.0 18,450.0 18,550.0 18,550.0 18,650.0 18,650.0 18,750.0 18,750.0 18,850.0	Inclination (°)	Azimuth	Vertical						
Depth (usft) 18,100.0 18,150.0 18,250.0 18,250.0 18,350.0 18,450.0 18,450.0 18,550.0 18,650.0 18,650.0 18,750.0 18,750.0 18,800.0		Azimuth	Vertical						
18,150.0 18,200.0 18,250.0 18,350.0 18,350.0 18,450.0 18,550.0 18,550.0 18,650.0 18,650.0 18,750.0 18,750.0		(°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,200.0 18,250.0 18,350.0 18,350.0 18,450.0 18,550.0 18,650.0 18,650.0 18,750.0 18,750.0 18,800.0	93.81	359.61	9,233.8	8,467.6	541.2	8,484.2	0.00	0.00	0.00
18,250.0 18,300.0 18,350.0 18,400.0 18,450.0 18,550.0 18,650.0 18,650.0 18,750.0 18,750.0 18,800.0	93.81	359.61	9,230.5	8,517.5	540.9	8,534.0	0.00	0.00	0.00
18,300.0 18,350.0 18,400.0 18,450.0 18,550.0 18,650.0 18,650.0 18,750.0 18,750.0 18,800.0	93.81	359.61	9,227.2	8,567.4	540.5	8,583.8	0.00	0.00	0.00
18,350.0 18,400.0 18,450.0 18,500.0 18,550.0 18,600.0 18,650.0 18,750.0 18,750.0	93.81	359.61	9,223.8	8,617.2	540.2	8,633.6	0.00	0.00	0.00
18,400.0 18,450.0 18,500.0 18,550.0 18,650.0 18,650.0 18,700.0 18,750.0 18,800.0	93.81	359.61	9,220.5	8,667.1	539.9	8,683.4	0.00	0.00	0.00
18,450.0 18,500.0 18,550.0 18,600.0 18,650.0 18,700.0 18,750.0 18,800.0	93.81	359.61	9,217.2	8,717.0	539.5	8,733.2	0.00	0.00	0.00
18,500.0 18,550.0 18,600.0 18,650.0 18,700.0 18,750.0 18,800.0	93.81	359.61	9,213.9	8,766.9	539.2	8,783.0	0.00	0.00	0.00
18,550.0 18,600.0 18,650.0 18,700.0 18,750.0 18,800.0	93.81	359.61	9,210.5	8,816.8	538.8	8,832.8	0.00	0.00	0.00
18,600.0 18,650.0 18,700.0 18,750.0 18,800.0	93.81	359.61	9,207.2	8,866.7	538.5	8,882.6	0.00	0.00	0.00
18,650.0 18,700.0 18,750.0 18,800.0	93.81	359.61	9,203.9	8,916.6	538.2	8,932.4	0.00	0.00	0.00
18,700.0 18,750.0 18,800.0	93.81	359.61	9,200.6	8,966.5	537.8	8,982.2	0.00	0.00	0.00
18,750.0 18,800.0	93.81	359.61	9,197.3	9,016.4	537.5	9,032.0	0.00	0.00	0.00
18,800.0	93.81	359.61	9,193.9	9,066.2	537.2	9,081.8	0.00	0.00	0.00
*	93.81	359.61	9,190.6	9,116.1	536.8	9,131.6	0.00	0.00	0.00
19 950 0	93.81	359.61	9,187.3	9,166.0	536.5	9,181.4	0.00	0.00	0.00
10,000.0	93.81	359.61	9,184.0	9,215.9	536.2	9,231.2	0.00	0.00	0.00
18,900.0	93.81	359.61	9,180.6	9,265.8	535.8	9,281.1	0.00	0.00	0.00
18,950.0	93.81	359.61	9,177.3	9,315.7	535.5	9,330.9	0.00	0.00	0.00
19,000.0	93.81	359.61	9,174.0	9,365.6	535.2	9,380.7	0.00	0.00	0.00
19,050.0	93.81	359.61	9,170.7	9,415.5	534.8	9,430.5	0.00	0.00	0.00
19,100.0	93.81	359.61	9,167.3	9,465.3	534.5	9,480.3	0.00	0.00	0.00
19,150.0	93.81	359.61	9,164.0	9,515.2	534.2	9,530.1	0.00	0.00	0.00
19,200.0	93.81	359.61	9,160.7	9,565.1	533.8	9,579.9	0.00	0.00	0.00
19,250.0	93.81	359.61	9,157.4	9,615.0	533.5	9,629.7	0.00	0.00	0.00
19,300.0	93.81	359.61	9,154.0	9,664.9	533.1	9,679.5	0.00	0.00	0.00
19,350.0	93.81	359.61	9,150.7	9,714.8	532.8	9,729.3	0.00	0.00	0.00
19,400.0	93.81	359.61	9,147.4	9,764.7	532.5	9,779.1	0.00	0.00	0.00
19,450.0	93.81	359.61	9,144.1	9,814.6	532.1	9,828.9	0.00	0.00	0.00
19,500.0	93.81	359.61	9,140.7	9,864.5	531.8	9,878.7	0.00	0.00	0.00
19,550.0	93.81	359.61	9,137.4	9,914.3	531.5	9,928.5	0.00	0.00	0.00
19,600.0	93.81	359.61	9,134.1	9,964.2	531.1	9,978.3	0.00	0.00	0.00
19,650.0	93.81	359.61	9,130.8	10,014.1	530.8	10,028.2	0.00	0.00	0.00
19,700.0	93.81	359.61	9,127.5	10,064.0	530.5	10,078.0	0.00	0.00	0.00
19,750.0	93.81	359.61	9,124.1	10,113.9	530.1	10,127.8	0.00	0.00	0.00
19,800.0	93.81	359.61	9,120.8	10,163.8	529.8	10,177.6	0.00	0.00	0.00
19,850.0	93.81	359.61	9,117.5	10,213.7	529.5	10,227.4	0.00	0.00	0.00
19,900.0	93.81	359.61	9,114.2	10,263.6	529.1	10,277.2	0.00	0.00	0.00
19,950.0	93.81	359.61	9,110.8	10,313.4	528.8	10,327.0	0.00	0.00	0.00
20,000.0	93.81	359.61	9,107.5	10,363.3	528.5	10,376.8	0.00	0.00	0.00
20,007.7	93.0 l	000.01							
BHL: 100' FNL	93.81	359.61	9,107.0	10,371.0	528.4	10,384.5	0.00	0.00	0.00

Hobbs Database:

Company: Mewbourne Oil Company

Lea County, New Mexico NAD 83 Project: Pile Driver 24/13 Fed Com #528H Site:

Well: Sec 24, T18S, R33E BHL: 100' FNL & 600' FEL (Sec 13)

Design: Design #1

Wellbore:

Local Co-ordinate Reference:

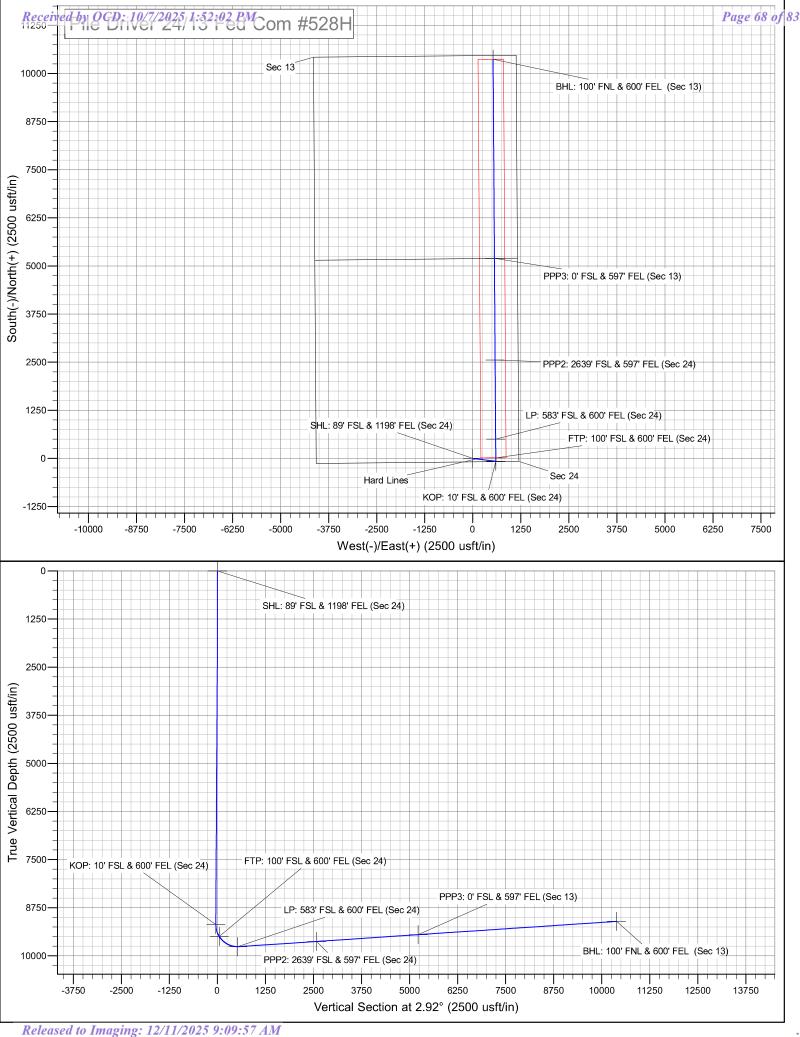
TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Pile Driver 24/13 Fed Com #528H

WELL @ 3937.0usft (Original Well Elev) WELL @ 3937 Ousft (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: 89' FSL & 1198' FE - plan hits target cer - Point	0.00 iter	0.00	0.0	0.0	0.0	628,677.90	763,200.40	32.7261990	-103.6118828
BHL: 100' FNL & 600' FE - plan hits target cer - Point		0.00	9,107.0	10,371.0	528.4	639,048.90	763,728.80	32.7546934	-103.6099344
KOP: 10' FSL & 600' FEI - plan hits target cer - Point	0.00 iter	0.00	9,189.0	-72.9	598.6	628,605.00	763,799.00	32.7259874	-103.6099380
PPP3: 0' FSL & 597' FEI - plan hits target cer - Point	0.00 iter	0.00	9,451.5	5,199.9	563.2	633,877.80	763,763.56	32.7404802	-103.6099362
FTP: 100' FSL & 600' FE - plan hits target cer - Point	' '	0.00	9,497.7	17.1	598.0	628,695.00	763,798.39	32.7262348	-103.6099380
PPP2: 2639' FSL & 597' - plan hits target cer - Point	0.00 iter	0.00	9,627.7	2,555.3	580.9	631,233.20	763,781.33	32.7332112	-103.6099371
LP: 583' FSL & 600' FEL - plan hits target cer - Point	0.00 iter	0.00	9,763.3	500.1	594.7	629,178.00	763,795.15	32.7275623	- 103.6099378



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY

WELL NAME & NO.: PILE DRIVER 24/13 FED COM 528H

APD ID: 10400087734

LOCATION: Section 24, T18S, R33E. NMP

COUNTY: Lea County, New Mexico

COA

H_2S	C	No	Yes		
Potash /	None	Secretary	C R-111-Q	Open Annulus	
WIPP				■ WIPP	
Cave / Karst	• Low	Medium	□ High	Critical	
Wellhead	Conventional	Multibowl	C 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 (Design A)

- 1. The 13-3/8 inch surface casing shall be set at approximately 1750 ft. (a minimum of 70 feet into the Rustler Anhydrite, above the salt and below usable 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 5,300 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.

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

- **3.** Operator has proposed to set **7 inch** x **4-1/2 inch** tapered production casing at approximately **20,007 ft.** (9,107 ft. TVD). The hole and casing size change at KOP, approximately at 9,213 ft. The minimum required fill of cement behind the tapered production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

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

Alternate Casing Program (Design B)

- 1. The 13-3/8 inch surface casing shall be set at approximately 1750 ft. (a minimum of 70 feet into the Rustler Anhydrite, above the salt and below usable 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 5,300 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.

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

- 3. Operator has proposed to set 7 inch production casing at approximately 9,213 ft. (9,189 ft. TVD). The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Note: The production casing must be kept fluid-filled to meet the BLM's minimum requirements for collapse 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 Lea County: 575-689-5981.

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 (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Contact Lea County Petroleum Engineering Inspection Staff:

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

Page 4 of 8

- 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
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

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

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- **3.** 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- **4.** If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

SA 08/07/2025

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 Cent	er 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
	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PILE DRIVER 24/13 FED COM Well Number: 528H

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency: Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

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

FACILITY

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & Trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.) Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PILE DRIVER 24/13 FED COM Well Number: 528H

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

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

PILE_DRIVER_24_13_FED_COM_528H_WellSiteLayout_20250310094205.pdf PILE_DRIVER_24_13_FED_COM_528H_WellSiteLayout_20250926083450.pdf

Comments: NONE

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: PILE DRIVER 24/13 528 526

Multiple Well Pad Number: 2

Recontouring

PILE_DRIVER_24_13_FED_COM_528H_InterimReclamationMap_20250310094217.pdf PILE_DRIVER_24_13_FED_COM_528H_InterimReclamationMap_20250926083501.pdf

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

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 512949

ACKNOWLEDGMENTS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	512949
	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.

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COMMENTS

Action 512949

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COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well.	12/11/2025

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CONDITIONS

Action 512949

CONDITIONS

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	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.	10/7/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/7/2025
jeffrey.harrison	Any string of casing or liner that is not circulated to surface must have a minimum of 200' of cement tie-back into the previous string of casing.	12/11/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/11/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/11/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/11/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/11/2025