Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM54298 **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 TEXAS TOOTHPICK 12/13 B2CN FED C **1**H 2. Name of Operator 9. API Well No. MEWBOURNE OIL COMPANY 30**-0**15**-5**5779 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory P O BOX 5270, HOBBS, NM 88241 (575) 393-5905 GATUNA CANYON/BONE SPRING 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 1/T20S/R30E/NMP At surface SWSW / 205 FSL / 1250 FWL / LAT 32.5956242 / LONG -103.930193 At proposed prod. zone SESW / 100 FSL / 1980 FWL / LAT 32.5662985 / LONG -103.9278233 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State **EDDY** NM 20 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 185 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 8752 feet / 19463 feet FED: NM 1693 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3319 feet 10/26/2022 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 11/17/2022 (Electronic Submission) Title Regulatory Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 11/08/2024 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.



<u>C-10</u>		<u> 1/12/2024 9:</u>		ergy, Mi		al Resources Departm	nent		-	Page 2 Revised July 9, 2024
	Electronical D Permitting	ly		OIL (CONSERVAT	TION DIVISION	X Initial Submitt		bmittal	
Via OCI	Dreimitting							Submitta	al Amended	
								Type:	☐ As Drille	
					WELL LOCAT	TION INFORMATION				
API No 30-015	ımber 5-55779		Pool Code	96688	3	Pool Name GATUN	A CANY	ON; B	ONE SPR	ING
Propert	ty Code <mark>1</mark>		Property N	ame TE	(AS TOOTH	IPICK 12-13 B2	CN FED	COM	Well Numbe	TH
OGRII	No. 14	744	Operator N	ame MEV	VBOURNE	OIL COMPANY	,		Ground Leve	
Surface	Owner: 🗆	State □ Fee □				Mineral Owner:		□ Tribal 🛭	X Federal	
					Surf	ace Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
М	1	20S	30E		205 FSL	1250 FWL	32.595	6242	-103.9301930	EDDY
	1				Bottom	Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
N	13	20S	30E		100 FSL	1980 FWL	32.566	2985 ·	-103.9278233	EDDY
				1		1				
	ted Acres	Infill or Defi	ning Well	Defining	g Well API	Overlapping Spacing	Unit (Y/N)	Consolid	ation Code	
	Numbers.					Well setbacks are und	der Common (Ownership	: □Yes □No	
					Kick O	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
N	1	20S	30E		473 FSL	1980 FWL	32.596	3605	103.9278188	EDDY
	1				First Ta	ake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
С	12	20S	30E		100 FNL	1980 FWL	32.5947	7855	-103.9278190	EDDY
	1	T	1_	1.	1	ke Point (LTP)	1			_
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
N	13	20S	30E		100 FSL	1980 FWL	32.5662	2987	-1039278232	EDDY
Unitize	ed Area or Ar	rea of Uniform l	Interest	Spacing	Unit Type X Horiz	contal Vertical	Groui	nd Floor El	levation: 331	19
				1						
OPERA	ATOR CERT	TFICATIONS				SURVEYOR CERTIFIC	CATIONS			
my knov organize includin location interest,	vledge and beli ation either ow g the proposed pursuant to a	ief, and, if the wel ins a working inte I bottom hole loca contract with an o ary pooling agree	l is a vertical or rest or unleased tion or has a rig owner of a work	directional v mineral inte ght to drill th ing interest o	rest in the land	I hereby certify that the we surveys made by me or und my belief.				
consent in each	of at least one tract (in the tai		of a working inte ation) in which a	rest or unlea any part of th	sed mineral interest e well's completed					
R	yan W	<u>Icdanii</u>	rl		11/12/24					
Signatur	e		Date			Signature and Seal of Profess	sional Surveyor		·	

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

Certificate Number

Date of Survey

RYANMCDANIEL@MEWBOURNE.COM
Email Address

RYAN MCDANIEL

Printed Name

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

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

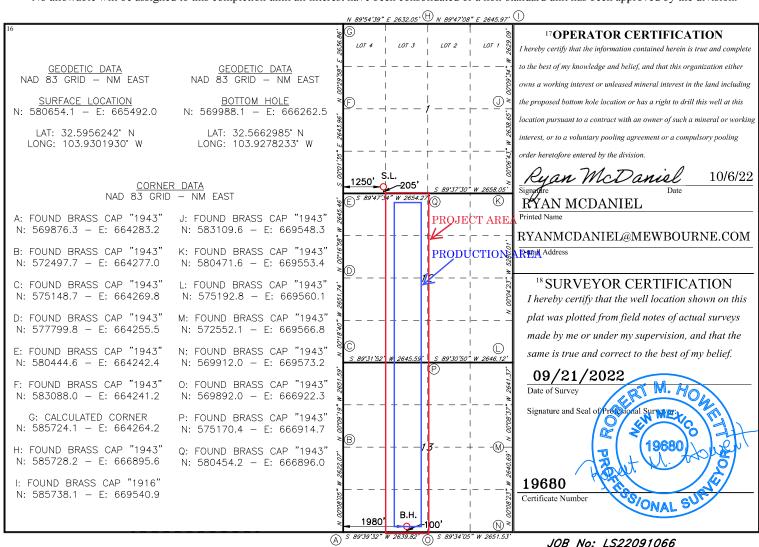
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number				² Pool Cod 9668		GATUN	3 Pool Νε A CANYON;		SPRI	NG
4Property Code				S T00	THPICK 1	ty Name 2/13 B2CN	FED COM		(Well Number
70GRID 1 14744				MEW	•	or Name OIL COMPAN	Y		9]	Elevation 3319'
					10 Surfac	ce Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	e North/South lir	ne Feet From the	East/We	st line	County
M	1	20S	30E		205	SOUTH	1250	WES	ST	EDDY
			11]	Bottom 1	Hole Locati	on If Different	From Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	e North/South lin	ne Feet from the	East/We	st line	County
N	13	20S	30E		100	SOUTH	1980	WES	ST	EDDY
12 Dedicated Acres	13 Joint	or Infill 14	Consolidation	Code 15	Order No.	•	•			
320										

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



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

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

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

If Other, please describe:

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Texas Toothpick 12/13 B2CN Fed C	om 1H	M 1 20S 30E	205' FSL x 1250' FV	ıـ 1500	3000	3500

IV. Central Delivery Point Name: _____ Texas Toothpick 12/13 B2CN Fed Com 1H [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
		-	Date	Commencement Date	Back Date	Date
Texas Toolhpick 12/13 B2CN Fed C	om 1H	7/2/22	8/2/22	9/2/22	9/17/22	9/17/22

- VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational Practices: ☑ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 - Enhan	nced	l Plan
EFFECTIVE APRI	L1,2	022

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.

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information pro	
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific info	ormation
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:

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

Section 4 - Notices

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

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

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

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

Drilling Plan Data Report

APD ID: 10400088971 **Submission Date:** 11/17/2022

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14471957	UNKNOWN	3319	28	28	OTHER : Top Soil	NONE	N
14471962	RUSTLER	2974	345	345	ANHYDRITE, DOLOMITE	USEABLE WATER	N
14471961	TOP SALT	2696	623	623	SALT	NONE	N
14471958	BOTTOM SALT	1622	1697	1697	SALT	NONE	N
14471965	YATES	1399	1920	1920	SANDSTONE	NATURAL GAS, OIL	N
14471966	CAPITAN REEF	1140	2179	2179	DOLOMITE, LIMESTONE	USEABLE WATER	N
14471963	DELAWARE	-550	3869	3869	LIMESTONE	NATURAL GAS, OIL	N
14471956	BONE SPRINGS	-3329	6648	6648	LIMESTONE, SHALE	NATURAL GAS, OIL	N
14471959	BONE SPRING 1ST	-4561	7880	7880	SANDSTONE	NATURAL GAS, OIL	N
14471960	BONE SPRING 2ND	-5022	8341	8341	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 19463

Equipment: Annular, Pipe Rams, Blind Ram

Requesting Variance? YES

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

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

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

(inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

Texas_Toothpick_12_13_B2CN_Fed_Com_1H_5M_BOPE_Choke_Diagram_20221114163223.pdf Flex_Line_Specs_API_16C_20241104112144.pdf

BOP Diagram Attachment:

Texas_Toothpick_12_13_B2CN_Fed_Com_1H_5M_BOPE_Schematic_20221114163255.pdf
Texas_Toothpick_12_13_B2CN_Fed_Com_1H_Mutli_Bowl_WH_20221114163255.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	26	18.625	NEW	API	N	0	420	0	420	3319	2899	420	J-55	87.5	BUTT	3.35	11.9 8	DRY	36.1 6	DRY	37.2
2	INTERMED IATE	17.5	13.375	NEW	API	N	0	1850	0	1850	3624	1469	1850	J-55	54.5	ST&C	1.15	2.78	DRY	4.43	DRY	7.35
3	INTERMED IATE	17.5	13.375	NEW	API	N	1850	2100	1850	2100	1469	1219	250	J-55	61	ST&C	1.38	2.77	DRY	39.0 2	DRY	63.0 8
4	INTERMED IATE	12 . 2 5	9.625	NEW	API	N	0	3800	0	3800	3319	-481	3800	J-55	36	LT&C	1.19	2.07	DRY	3.31	DRY	4.12
5	PRODUCTI ON	8.75	7.0	NEW	API	N	0	8199	0	8146	3319	-4827	8199	P- 110	26	LT&C	1.52	2.42	DRY	3.25	DRY	3.89
6	LINER	6.12 5	4.5	NEW	API	N	7999	19463	7946	8752	-4627	-5433	11464	P- 110	13.5	LT&C	2.13	2.48	DRY	2.18	DRY	2.73

Casing Attachments

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

18.625in_87.5__J55_BTC_Csg_20241104112237.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in_54.5__J55_STC_Csg_20241104112317.pdf

String

Casing ID: 3

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in_61__J55_STC_Csg_20241104112357.pdf

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

Casing ID: 4

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_36__J55_LTC_Csg_20241104112542.pdf

Casing ID: 5

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26__P110_LTC_Csg_20241104112435.pdf

Casing ID: 6

String

LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5in_13.5__P110_LTC_Csg_20241104112513.pdf

Section 4 - Cement

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	345	590	2.12	12.5	1260	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		345	420	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	2150	0	1796	320	2.12	12.5	680	25	Class C	Salt, Gel Extender, LCM
INTERMEDIATE	Tail		1796	2150	100	1.34	14.8	134	25	Class C	Retarder
INTERMEDIATE	Lead		0	1829	850	2.12	12.5	1810	50	Class C	Salt, Gel Extender, LCM
INTERMEDIATE	Tail		1829	2100	200	1.34	14.8	268	50	Class C	Retarder
INTERMEDIATE	Lead	2150	2150	3128	180	2.12	12.5	390	25	Class C	Salt, Gel Extender, LCM
INTERMEDIATE	Tail		3128	3800	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		2129	4800	350	1.34	14.8	470	25	Class C	Salt, Gel, Extender, LCM, Defoamer

PRODUCTION	Lead	~	4800	7420	560	2.12	12.5	1190	0	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail	1	7420	8199	300	1.18	15.6	354	0	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		7999	1946 3	730	1.85	13.5	1360	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	420	SPUD MUD	8.4	8.6		3					
420	2100	SALT SATURATED	10	10.2	1						
2100	3800	WATER-BASED MUD	8.4	8.6							
3800	8199	SALT SATURATED	8.6	9.7							
8199	1946 3	OIL-BASED MUD	10	11							

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (8199') to surface.

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

DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG, GAMMA RAY LOG, COMPENSATED NEUTRON LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG, Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5006 Anticipated Surface Pressure: 3080

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

Texas Toothpick 12 13 B2CN Fed Com 1H H2S Plan 20221114171740.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Texas_Toothpick_12_13_B2CN_Fed_Com_1H_MOC_Dir_Plan_20221114171816.pdf Texas_Toothpick_12_13_B2CN_Fed_Com_1H_MOC_Dir_Plot_20221114171816.pdf

Other proposed operations facets description:

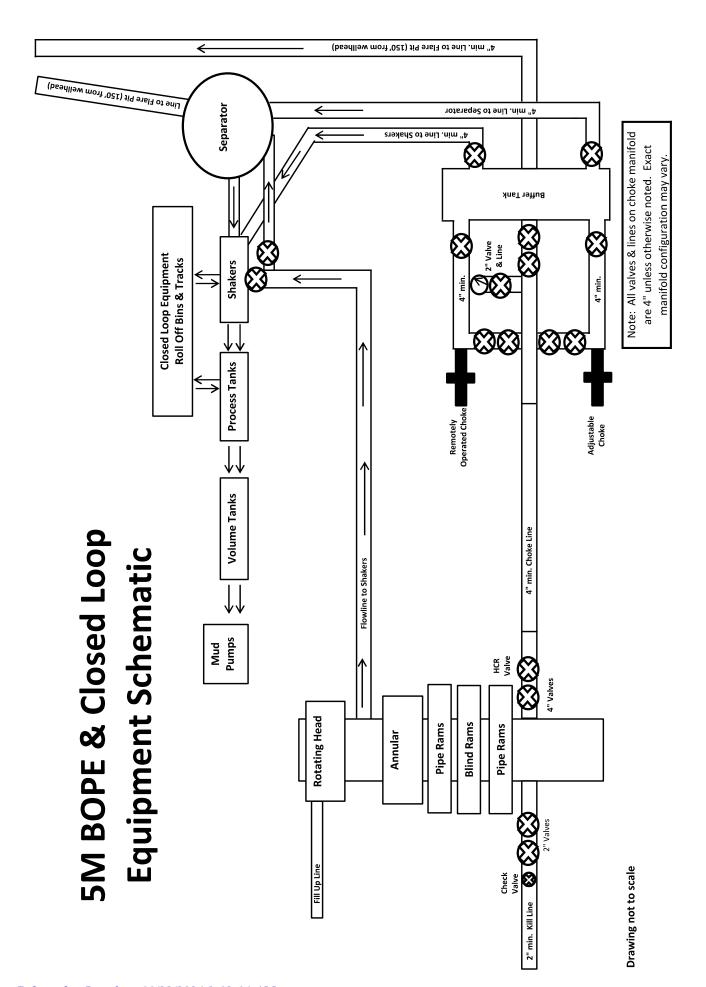
Other proposed operations facets attachment:

Texas_Toothpick_12_13_B2CN_Fed_Com_1H_Add_Info___Permitting_20221114171826.pdf
Texas_Toothpick_12_13_B2CN_Fed_Com_1H_Drlg_Program_R_111Q_Var_4_string_20241104113425.pdf

Other Variance attachment:

MOC_Break_Testing_Variance_20241104113348.pdf MOC Offline Cementing Variance 20241104113356.pdf







LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

№: 230826015

Product Name Product Specification	1	ke And Kill Hose		Standard	I AF	PI Spec 16C 3 rd edition	
Product Specification	24 1000					•	
	3"×10000	Opsi×60ft (18.29m)	Serial Num	ber	7660144	
Inspection Equipment	MTU	-BS-1600-3200-E		Test mediu	ım	Water	
Inspection Department	Q	.C. Department		Inspection I	Date	2023.08.26	
	- 1	Rate of le	ngth chang	ge			
Standard requirements	At working pre	ssure, the rate of le	ngth chang	e should not m	nore than ± 2	%	
Testing result	10000psi (69.0	MPa) ,Rate of leng	th change ().7%			
		Hydrosta	ntic testing				
Standard requirements At 1.5 times working pressure, the initial pressure-holding period of not less than three restrictions the second pressure-holding period of not less than one hour, no leaks.							
Testing result 15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage							
Graph of pressure testing	:						
100 95 10 10 10 10 10 10 10 10 10 10 10 10 10			100 90 70 70 60 50 10				
Conclusion	१५६६म् ११५६२१ ११५६२ ११५६	ม พละม พละม พละม พละมหล ted items meet stan	21:29:54 21:	9:SI 23:49:SB 23:59:	ant (2004/2000) (2016/2000)	7000 (1000) (1000) (1000) (1000)	
	- P		1		-		



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

№: LT2023-126-002

Customer Name	A	ustin 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						

	Inspectio	n Items	3			Inspection result	s			
	Appearance C	Checking	g		In accordance with API Spec 16C 3 rd edition					
	Size and Le	engths			In accordance with API Spec 16C 3 rd edition					
D	imensions and	Toleran	nces		In accordance with API Spec 16C 3 rd edition					
End Connections: 4-1	/16"×10000psi In	ntegral fla	ange for sour gas ser	vice	In accorda	nce with API Spec	6A 21st edition			
End Connections: 4-1	/16"×10000psi In	ntegral fla	ange for sour gas ser	vice	In accorda	nce with API Spec	17D 3 rd edition			
	Hydrostatic 7	Testing			In accorda	nce with API Spec	16C 3 rd edition			
	product Ma	arking			In accordance with API Spec 16C 3 rd edition					
Inspection cor	nclusion		The inspected ite	ms m	eet standard require	ments of API Spec	16C 3 rd edition			
Remark	s									
Approver Jian long Chan Auditor					liging Dong	Inspector	Zhansheng Wang			



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

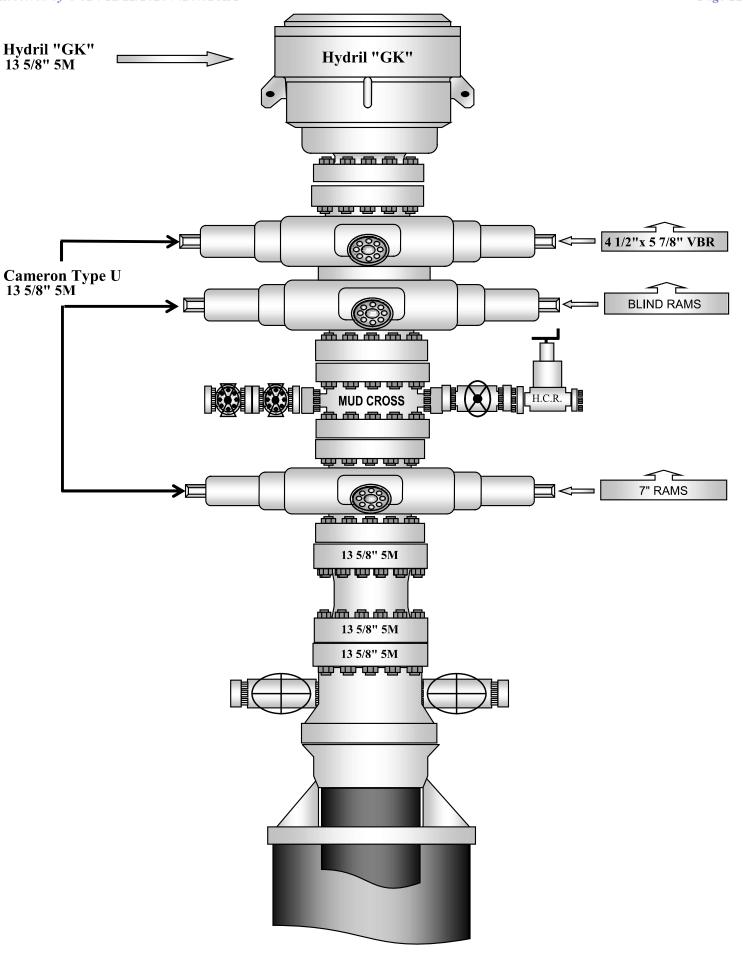
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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

Jiaulong Chen

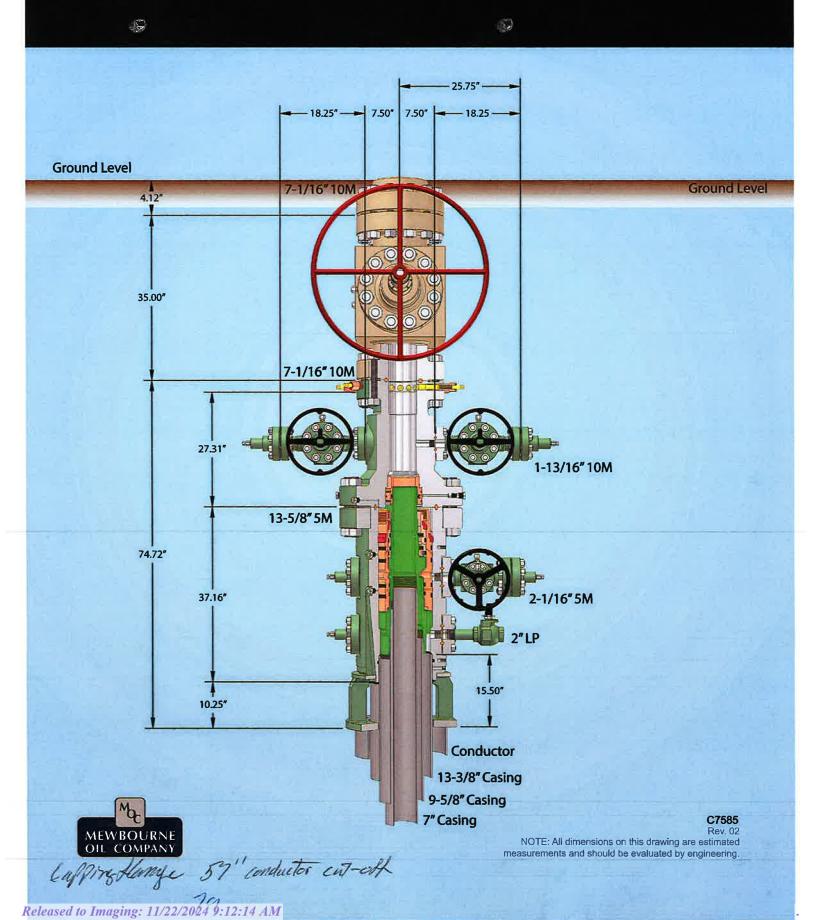
QC Manager:

Date: Aug 26, 2023





13-5/8" MN-DS Wellhead System



SHL: 205' FSL 1250' FWL (Sec 1) BHL: 100' FSL 1980' FWL (Sec 13)

Well Location GL: 3319'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 205' FSL & 1250' FWL (Sec 1)	NMNM086913	SWSW	1	20S	30E	Eddy	32.5956242	- 103.9301930	0'	0'
KOP	KOP: 473' FSL & 1980' FWL (Sec 1)	NMNM086913	SESW	1	20S	30E	Eddy	32.5963605	- 103.9278188	8,146'	8,199'
FTP	FTP: 100' FNL & 1980' FWL (Sec 12)	NMNM054298	NENW	12	20S	30E	Eddy	32.5947855	- 103.9278190	8,719'	9,099'
PPP2	PPP2: 1637' FSL & 1980' FWL (Sec 12)	NMLC0070207	NESW	12	20S	30E	Eddy	32.5877778	- 103.9278200	8,727'	11,648'
PPP3	PPP3: 1312' FSL & 1980' FWL (Sec 12)	NMNM086913	SESW	12	20S	30E	Eddy	32.5839393	- 103.9278206	8,732'	13,045'
PPP4	PPP4: 1315' FSL & 1980' FWL (Sec 13)	NMNM0025567	SESW	13	20S	30E	Eddy	32.5696405	- 103.9278227	8,748'	18,247'
BHL	BHL: 100' FSL & 1980' FWL (Sec 13)	NMNM0025567	SESW	13	20S	30E	Eddy	32.5662985	- 103.9278233	8,752'	19,463'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	345'	Dolomite/Anhydrite	Usable Water	Yeso			
Castile				Delaware (Lamar)	3869'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	623'	Salt	None	Bell Canyon			
Marker Bed 126				Cherry Canyon			
Salt Base	1697'	Salt	None	Manzanita Marker			
Yates	1920'	Sandstone	Oil/Natural Gas	Basal Brushy Canyon			
Seven Rivers				Bone Spring	6648'	Limestone	Oil/Natural Gas
Queen				1st Bone Spring	7880'	Sandstone	Oil/Natural Gas
Capitan	2179'	Limestone/Dolomite	Usable Water	2nd Bone Spring	8341'	Sandstone	Oil/Natural Gas
Grayburg				3rd Bone Spring			
San Andres				Wolfcamp			

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

An easing strings will be tested in accordance with 43 CFR 1 art 31/2. Must have table for contingency casing.	
	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-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?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
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?	Y
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?	

SHL: 205' FSL 1250' FWL (Sec 1) BHL: 100' FSL 1980' FWL (Sec 13)

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Туре			Tested to:	Rating Depth		
	20	20	5M		Annular	X	2500#/3500#		
				Blind Ram		X			
17.5			20	5M	Pipe Ram		X	5000#	19,463'
			31/1	Double Ram			3000#		
							Other*		

^{*}Specify if additional ram is utilized.

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

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

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

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

Mud Program

	Mud Wt.,	
Depth (MD)	lb/gal	Mud Type
0' - 420'	8.4 - 8.6	Fresh Water
420' - 2100'	10.0 - 10.2	Brine
2100' - 3800'	8.4 - 8.6	Fresh Water
3800' - 8199'	8.6 - 9.7	Cut-Brine
8199' - 19463'	10.0 - 11	OBM

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

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

SHL: 205' FSL 1250' FWL (Sec 1) BHL: 100' FSL 1980' FWL (Sec 13)

Logging and Testing Procedures

	Logging,	Coring and Testing.
	v	Will run GR/CNL from KOP (8199') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
ſ	N	No logs are planned based on well control or offset log information. Offset Well:
ſ	N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

	Caliper	Cement Bond Log	CNL/FDC
	Compensated Densilog	Compensated Neutron Log	Computer Generated Log
	Dip Meter Log	☑ Directional Survey	Dual Induction/Microresistivity
	Dual Lateral Log/Microspherically Focused	☐ Electric Log	Formation Density Compensated Log
区	Gamma Ray Log	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	5006 psi			
BH Temperature	140			
Abnormal Temp, Pressure, or Geologic Hazards	No			

Mitigation measure for abnormal conditions. Describe. Lost circulation material/s 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

Other facets of operation

Mewbourne Oil Company also requests approval to implement Design B and Design C as described below. 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.

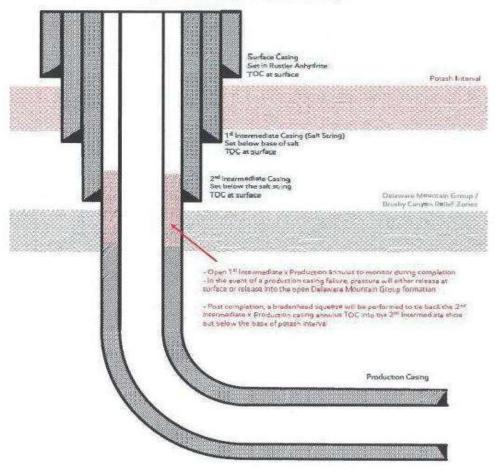
Mewbourne Oil Company R-111Q Procedure

Mewbourne Oil Company request permission to perform Open Hole Annulus procedure per R-111Q guidelines to be implemented as follows:

Production String

- a) The Production string shall consist new oil field casing in good condition that meets API specifications, rated for the loads expected over the lifecycle of the well.
- b) The 2nd intermediate string shall consist of new oil field casing in good condition that meets API specifications and rated for the loads expected over the lifecycle of the well.
- c) For all wells within the KPLA where a 2nd intermediate string will be utilized resulting in a four (4) -string wellbore design (surface, 1st intermediate, 2_{nd} intermediate, and production casing strings), the following method shall apply to safely divert flow of wellbore fluids away from the salt interval in the event of a sudden production casing failure. The surface equipment utilized during stimulation operations shall be designed to relieve pressure from the annulus between the 2nd intermediate and production casing strings below the failure threshold of the casing string components.
- iii) A monitored open annulus shall be incorporated by leaving the annulus between the 2nd intermediate and production string casings un-cemented and monitored inside of the 2nd intermediate string. Reference wellbore diagram Figure E in Exhibit B. This design is appropriate if the 2nd intermediate string is set above the Delaware Mountain Group / Brushy Canyon formation.
- (1) The top of cement in the annulus between the 2nd intermediate and production casing strings shall stand un-cemented at least 500 feet below the 2nd intermediate casing point. Zero percent excess shall be pumped on the production cementing slurry to ensure no tie-back into the 2nd intermediate casing shoe.
- (2) After hydraulic fracturing operations have been concluded and no longer than 180 days after the well is brought online, the operator shall bradenhead cement to ensure at least a 500 foot tie-back has been established inside the 2nd intermediate casing but not higher than USGS Marker Bed No. 126.
- (3) The top of cement may be estimated through pumped displacement volumes or with the use of a fluid shot tool prior to filling backside with fluid

4-String Design – Open 1st Int x Production Casing (ICP 2 above relief zone)



[Figure E] 4 String - Uncernented Annulus between 2nd Intermediate and Production Casing Strings

Mewbourne Oil Company, Texas Toothpick 12/13 B2CN Fed Com 1H Sec 1, T20S, R30E SHL: 205' FSL 1250' FWL (Sec 1)

BHL: 100' FSL 1980' FWL (Sec 1)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	26"	0'	0'	420'	420'	18 5/8" 87.5# J55 BTC	3.35	11.98	36.16	37.20
Intermediate 1	17.5"	0'	0'	1850'	1850'	13.375" 54.5# J55 STC	1.15	2.78	4.43	7.35
Intermediate 1	17.5"	1850'	1850'	2100'	2100'	13.375" 61# J55 STC	1.38	2.77	39.02	63.08
Intermediate 2	12.25"	0'	0'	3800'	3800'	9.625" 36# J55 LTC	1.19	2.07	3.31	4.12
Production	8.75"	0'	0'	8199'	8146'	7" 26# P110 LTC	1.52	2.42	3.25	3.89
Liner	6.125"	7999'	7946'	19463'	8752'	4.5" 13.5# P110 LTC	2.13	2.48	2.18	2.73

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description	
18.625 in	LEAD	590	12.5	2.12	0' - 345'	1260		Class C: Salt, Gel, Extender, LCM	
10.025 III	TAIL	200	14.8	1.34	345' - 420'	268		Class C: Retarder	
13.375 in	LEAD	850	12.5	2.12	0' - 1829'	1810	50%	Class C: Salt, Gel, Extender, LCM	
13.373 III	TAIL	200	14.8	1.34	1829' - 2100'	268	30%	Class C: Retarder	
1st Stg 9.625 in	LEAD	180	12.5	2.12	2150' - 3128'	390	25%	Class C: Salt, Gel, Extender, LCM	
18t 5tg 9.025 iii	TAIL	200	14.8	1.34	3128' - 3800'	268	2376	Class C: Retarder	
					9 5/8'' Г	V Tool @ 2150'			
2 - 1 5 - 0 (25)	LEAD	320	12.5	2.12	0' - 1796'	680		Class C: Salt, Gel, Extender, LCM	
2nd Stg 9.625 in	TAIL	100	14.8	1.34	1796' - 2150'	134	25%	Class C: Retarder	
7 in	LEAD	560	12.5	2.12	4800' - 7420'	1190	0%	Class C: Salt, Gel, Extender, LCM, Defoamer	
/ III	TAIL	300	15.6	1.18	7420' - 8199'	354	U76	Class H: Retarder, Fluid Loss, Defoamer	
	7" TOC @ 4800', BHS TOC @ 2129'								
Braden Head Sqz	LEAD	350	14.8	1.34	2129' - 4800'	470	25%	Class C	
4.5 in	LEAD	730	13.5	1.85	7999' - 19463'	1360	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent	

		Casing Prog	ram Design B			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	26"	0'	0'	420'	420'	18 5/8" 87.5# J55 BTC	3.35	11.98	36.16	37.20
Int 1	17.5"	0'	0'	1850'	1850'	13.375" 54.5# J55 STC	1.15	2.78	4.43	7.35
Int 1	17.5"	1850'	1850'	2100'	2100'	13.375" 61# J55 STC	1.38	2.77	39.02	63.08
Int 2	12.25"	0'	0'	3800'	3800'	9.625" 36# J55 LTC	1.19	2.07	3.31	4.12
Production	8.75"	0'	0'	9099'	8719'	7" 26# P110 LTC	1.42	2.26	2.93	3.51
Liner	6.125"	8199'	8146'	19463'	8752'	4.5" 13.5# P110 LTC	2.13	2.48	2.22	2.78

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description			
18.625 in	LEAD	590	12.5	2.12	0' - 345'	1260	100%	Class C: Salt, Gel, Extender, LCM			
18.023 III	TAIL	200	14.8	1.34	345' - 420'	268	100%	Class C: Retarder			
13.375 in	LEAD	850	12.5	2.12	0' - 1829'	1810	50%	Class C: Salt, Gel, Extender, LCM			
13.373 III	TAIL	200	14.8	1.34	1829' - 2100'	268	3070	Class C: Retarder			
1st Stg 9.625 in	LEAD	180	12.5	2.12	2150' - 3128'	390	25%	Class C: Salt, Gel, Extender, LCM			
18t Stg 9:025 iii	TAIL	200	14.8	1.34	3128' - 3800'	268	2370	Class C: Retarder			
9 5/8" DV Tool @ 2150'											
2nd Stg 9.625 in	LEAD	320	12.5	2.12	0' - 1796'	680	25%	Class C: Salt, Gel, Extender, LCM			
211d 3tg 9.023 III	TAIL	100	14.8	1.34	1796' - 2150'	134	2370	Class C: Retarder			
1st Stg 7 in	LEAD	90	12.5	2.12	4800' - 6079'	200	0%	Class C: Salt, Gel, Extender, LCM, Defoamer			
Tst Stg / III	TAIL	400	15.6	1.18	6079' - 9099'	472	070	Class H: Retarder, Fluid Loss, Defoamer			
	7" TOC @ 4800', BHS TOC @ 2129'										
Braden Head Sqz	LEAD	340	14.8	1.34	2129' - 4800'	460	25%	Class C			
4.5 in	LEAD	720	13.5	1.85	8199' - 19463'	1340	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer settling Agent			

SHL: 205' FSL 1250' FWL (Sec 1) BHL: 100' FSL 1980' FWL (Sec 13)

		Casing Prog	ram Design C			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
Cusing 110g. um 200igii C						DENT William 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 Tension	SF Body Tension
Surface	26"	0'	0'	420'	420'	18 5/8" 87.5# J55 BTC	3.35	11.98	36.16	37.20
Intermediate 1	17.5"	0'	0'	1850'	1850'	13.375" 54.5# J55 STC	1.15	2.78	4.43	7.35
Intermediate 1	17.5"	1850'	1850'	2100'	2100'	13.375" 61# J55 STC	1.38	2.77	39.02	63.08
Intermediate 2	12.25"	0'	0'	3800'	3800'	9.625" 36# J55 LTC	1.19	2.07	3.31	4.12
Production	8.75"	0'	0'	8199'	8146'	7" 26# P110 LTC	1.42	2.26	3.25	3.89
Production	8.5"	8199'	8146'	19463'	8752'	4.5" 13.5# RYS110 CDC HTQ	2.13	2.48	2.81	2.78

Cement Program C

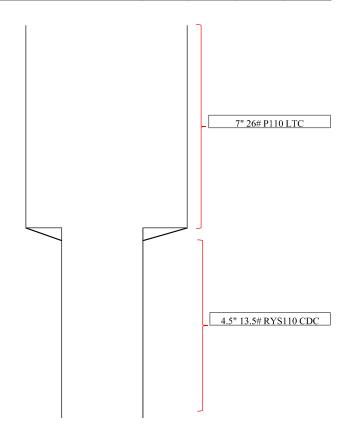
Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
18,625 in	LEAD	590	12.5	2.12	0' - 345'	1260	100%	Class C: Salt, Gel, Extender, LCM
18.625 III	TAIL	200	14.8	1.34	345' - 420'	268	100%	Class C: Retarder
13.375 in	LEAD	850	12.5	2.12	0' - 1829'	1810	50%	Class C: Salt, Gel, Extender, LCM
13.373 III	TAIL	200	14.8	1.34	1829' - 2100'	268	30%	Class C: Retarder
1st Stg 9.625 in	LEAD	180	12.5	2.12	2150' - 3128'	390	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3128' - 3800'	268	2376	Class C: Retarder
					9 5/8	" DV Tool @ 2150'		
	LEAD	320	12.5	2.12	0' - 1796'	680		Class C: Salt, Gel, Extender, LCM
2nd Stg 9.625 in	TAIL	100	14.8	1.34	1796' - 2150'	134	25%	Class C: Retarder
7 in - 4.5 in	LEAD	780	12.5	2.12	4800' - 6315'	1660	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ m = 4.5 m	TAIL	1750	15.6	1.18	7220' - 19463'	2065	0%	Class H: Retarder, Fluid Loss, Defoamer
					7" TOC @	4800', BHS TOC @ 2129'		
Braden Head Sqz	LEAD	340	14.8	1.34	2129' - 4800'	460	25%	Class C

Mewbourne Oil Company, Texas Toothpick 12/13 B2CN Fed Com 1H

Sec 1, T20S, R30E SHL: 205' FSL & 1250' FWL (Sec 1) BHL: 100' FSL & 1980' FWL (Sec 13)

Casing Design C

Hole Size	From	То	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	8199'		7" 26# P	110 LTC		1.42	2.26	3.25	3.89
8.5	8199'	19463'	4.5" 13.5# RYS110 CDC HTQ				2.13	2.48	2.81	2.78





Mewbourne Oil Co.

BOP Break Testing Variance

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

Procedures

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



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

Barriers

Before Nipple Down:

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

After Nipple Down:

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

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.



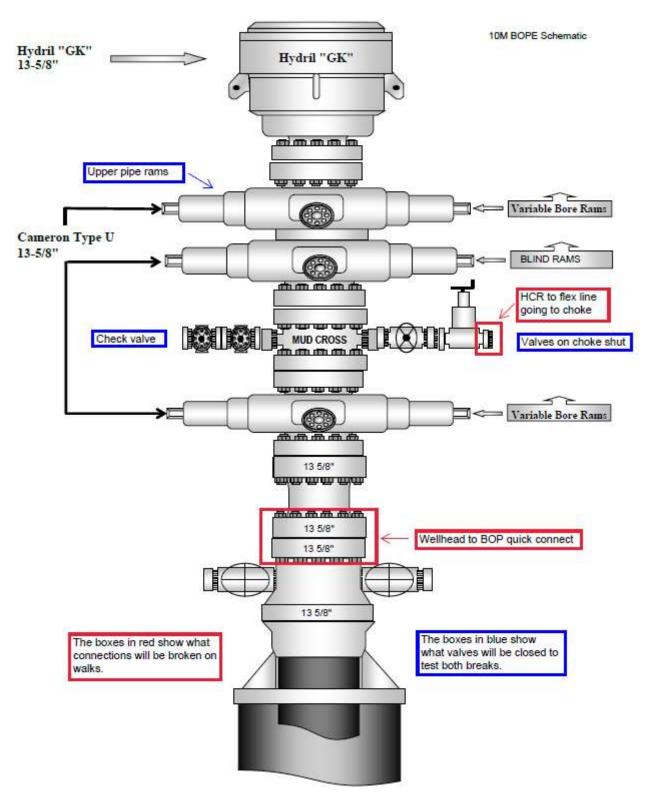


Figure 1. BOP diagram



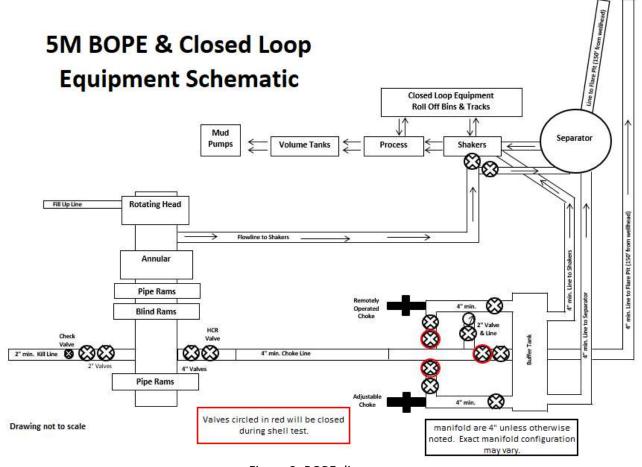


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



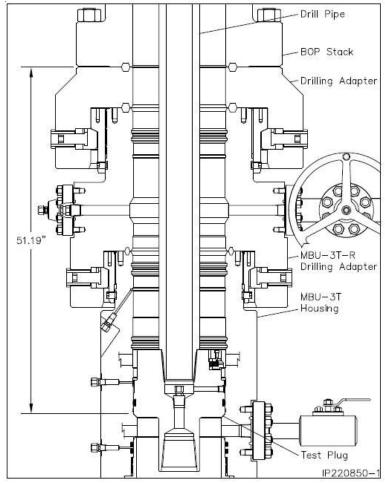


Figure 5. Cactus 5M wellhead with BOP quick connect

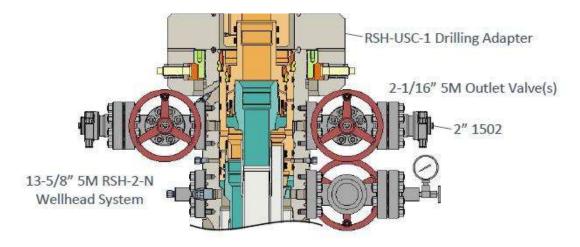


Figure 6. Vault 5M wellhead with BOP quick connect



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

Mewbourne Oil Company requests a variance to perform offline cementing for surface and intermediate casing strings with the following conditions:

- Offline cementing will not be performed on production casing.
- Offline cementing will not be performed on a hole section with MASP > 5000 psi.
- Offline cementing will not be performed concurrently with offset drilling.

Surface Casing Order of Operations:

- 1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Confirm well is static.
- 4. Make up 13 %" wellhead or wellhead landing ring assembly and land on 20" conductor.
- 5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
- 6. Confirm well is static.
- 7. Back out landing joint and pull to rig floor. Lay down landing joint.
- 8. Walk rig to next well on pad with cement crew standing by to rig up.
- 9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
- 10. Make up cement head on top of offline cement tool with forklift.
- 11. Commence cement operations.
- 12. If cement circulates, confirm well is static and proceed to step 16.
- 13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
- 15. Confirm well is static.
- 16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
- 17. Install wellhead capping flange.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus



After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

20" Surface Casing Order of Operations (4 string area):

- 1. Run 20" surface casing as per normal operations (TPGS and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
- 4. Confirm well is static.
- 5. Back out landing joint and pull to rig floor. Lay down landing joint.
- 6. Make up cement head.
- 7. Walk rig to next well on pad with cement crew standing by to rig up.
- 8. Commence cement operations.
- 9. If cement circulates, confirm well is static and proceed to step 13.
- 10. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 11. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
- 12. Confirm well is static.
- 13. Once cement job is complete, remove cement head and install cap.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement Head

After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement head
- Capping flange after cementing



Intermediate Casing Order of Operations:

- 1. Run casing as per normal operations (float shoe and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Confirm well is static (if running SBM).
- 4. Land casing.
- 5. Fill pipe, circulate casing capacity and confirm floats are still holding.
- 6. Confirm well is static.
- 7. Back out landing joint and pull to rig floor. Lay down landing joint. Install packoff & test.
- 8. Nipple down BOP.
- 9. Walk rig to next well on pad with cement crew standing by to rig up.
- 10. Make up offline cement tool using forklift per wellhead manufacturer (Fig. 3 8).
- 11. Make up cement head on top of offline cement tool.
- 12. Commence cement operations.
- 13. If cement circulates, confirm well is static and proceed to step 16.
- 14. If cement does not circulate (when required), notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 15. Pump remedial cement job if required.
- 16. Confirm well is static.
- 17. Remove cement head and offline cementing tool.
- 18. Install wellhead capping flange and 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 tested to 5000 psi and cement head
- Capping flange after cementing



Risks:

- Pressure build up in annulus before cementing
 - Contact BLM if a well control event occurs.
 - o Rig up 3rd party pump or rig pumps to pump down casing and kill well.
 - Returns will be taken through the wellhead valves to a choke manifold (Fig 9 & 10).
 - Well could also be killed through the wellhead valves down the annulus.

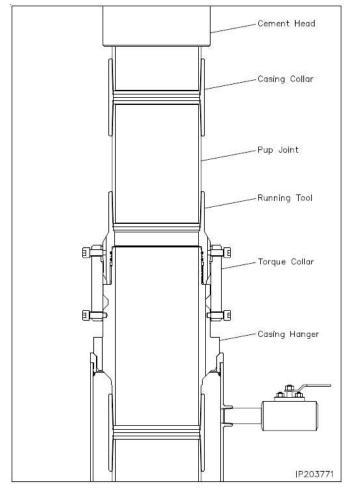


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



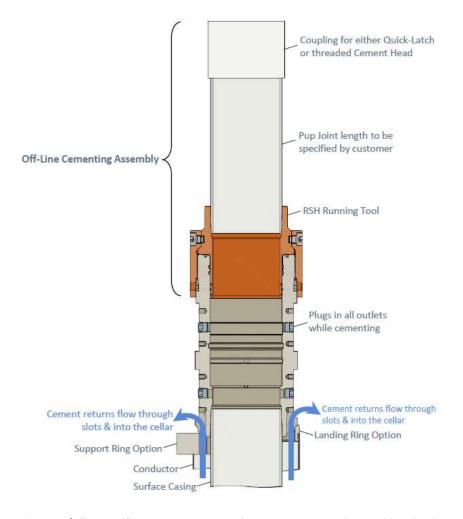


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



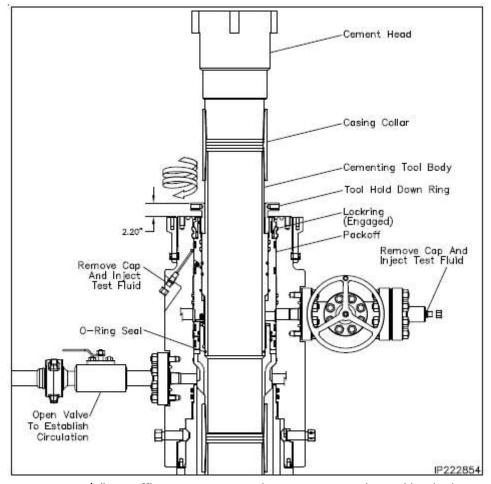


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



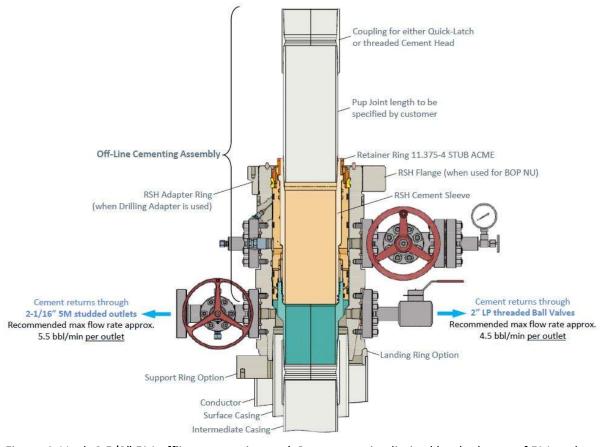


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



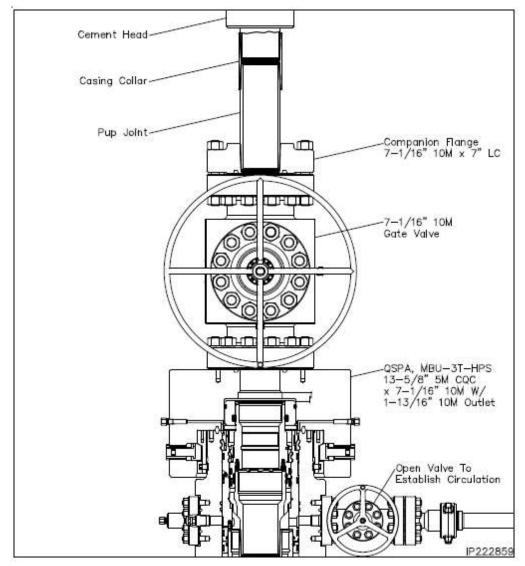


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



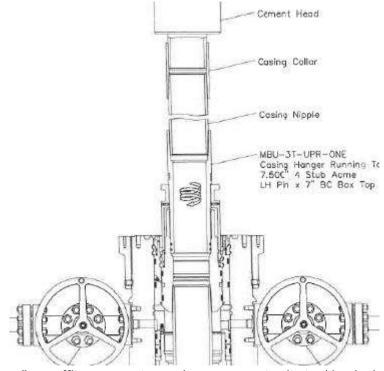


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



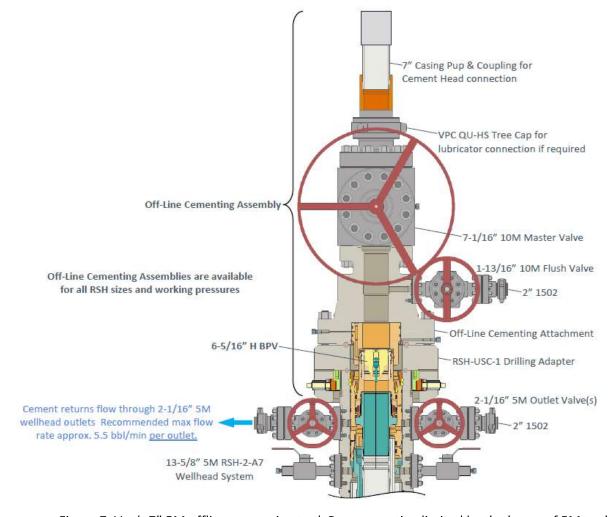


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



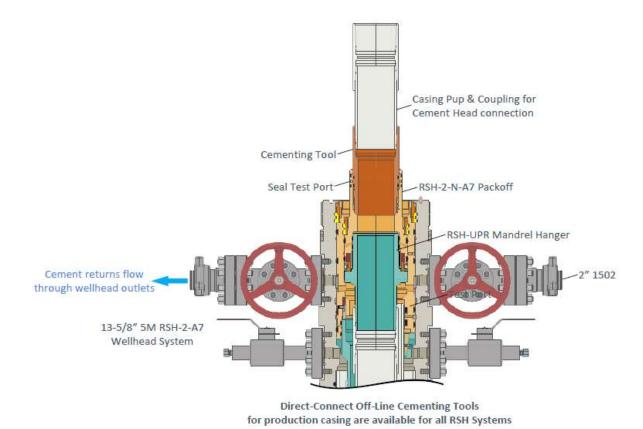


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



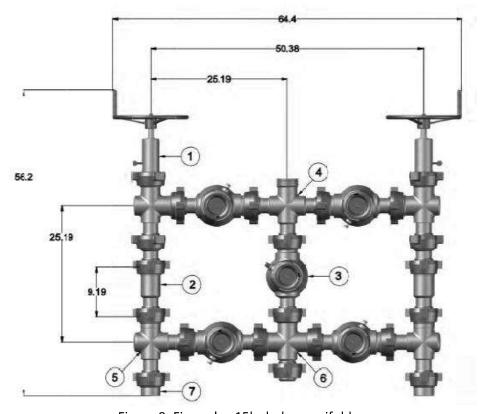


Figure 9. Five valve 15k choke manifold.

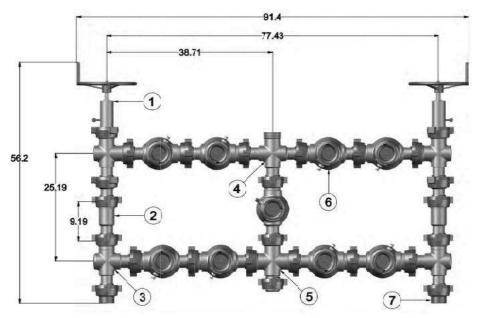


Figure 10. Nine valve 15k choke manifold.

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Texas Toothpick 12/13 B2CN Fed Com #1H

Sec 1, T20S, R30E

SHL: 205' FSL & 1250' FWL (Sec 1) BHL: 100' FSL & 1980' FWL (Sec 13)

Plan: Design #1

Standard Planning Report

24 October, 2022

TVD Reference:

Hobbs Database:

Mewbourne Oil Company

Local Co-ordinate Reference: Site Texas Toothpick 12/13 B2CN Fed Com

Company: Project: Site:

Eddy County, New Mexico NAD 83 MD Reference: Texas Toothpick 12/13 B2CN Fed Com #1H North Reference:

WELL @ 3347.0usft (Original Well Elev) WELL @ 3347.0usft (Original Well Elev)

(°)

175.87

Grid

Sec 1, T20S, R30E Well: Wellbore: BHL: 100' FSL & 1980' FWL (Sec 13)

Design: Design #1

Minimum Curvature **Survey Calculation Method:**

Project Eddy County, New Mexico NAD 83

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

Ground Level System Datum:

(usft)

0.0

Site Texas Toothpick 12/13 B2CN Fed Com #1H

580,654.10 usft Northing: Site Position: Latitude: 32.5956242 665,492.00 usft -103.9301930 Easting: From: Мар Longitude:

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

Sec 1, T20S, R30E Well

Well Position +N/-S 0.0 usft Northing: 580,654.10 usft Latitude: 32.5956242 0.0 usft 665,492.00 usft Longitude: -103.9301930 +E/-W Easting:

Position Uncertainty 0.0 usft Wellhead Elevation: 3,347.0 usft Ground Level: 3,319.0 usft

0.22 **Grid Convergence:**

Wellbore BHL: 100' FSL & 1980' FWL (Sec 13)

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (nT) (°) IGRF2010 12/31/2014 7.34 60.38 48,421.91394763

Design Design #1 Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction

(usft)

0.0

Plan Survey Tool Program Date 10/24/2022

Depth From Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks

(usft)

0.0

0.0 19,462.5 Design #1 (BHL: 100' FSL & 1980

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,150.0	0.00	0.00	2,150.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,545.9	7.92	69.66	2,544.6	9.5	25.6	2.00	2.00	0.00	69.66	
7,802.8	7.92	69.66	7,751.4	261.2	704.6	0.00	0.00	0.00	0.00	
8,198.6	0.00	0.00	8,146.0	270.7	730.2	2.00	-2.00	0.00	180.00	KOP: 473' FSL & 198
9,096.9	89.82	179.79	8,719.0	-300.5	732.3	10.00	10.00	0.00	179.79	
19,462.5	89.82	179.79	8,752.0	-10,666.0	770.5	0.00	0.00	0.00	0.00	BHL: 100' FSL & 1980

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Eddy County, New Mexico NAD 83
Texas Toothpick 12/13 B2CN Fed Com #1H

Well: Sec 1, T20S, R30E

Wellbore: BHL: 100' FSL & 1980' FWL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Texas Toothpick 12/13 B2CN Fed Com

#11

WELL @ 3347.0usft (Original Well Elev) WELL @ 3347.0usft (Original Well Elev)

Grid

ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 205' FS	SL & 1250' FWL ((Sec 1)							
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0 1,400.0	0.00 0.00	0.00 0.00	1,300.0 1,400.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
·									
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,150.0	0.00	0.00	2,150.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	1.00	69.66	2,200.0	0.2	0.4	-0.1	2.00	2.00	0.00
2,300.0	3.00	69.66	2,299.9	1.4	3.7	-1.1	2.00	2.00	0.00
2,400.0	5.00	69.66	2,399,7	3.8	10.2	-3.0	2.00	2.00	0.00
2,500.0	7.00	69.66	2,499.1	7.4	20.0	-6.0	2.00	2.00	0.00
2,545.9	7.92	69.66	2,544.6	9.5	25.6	-7.6	2.00	2.00	0.00
2,600.0	7.92	69.66	2,598.2	12.1	32.6	-9.7	0.00	0.00	0.00
2,700.0	7.92	69.66	2,697.3	16.9	45.5	-13.5	0.00	0.00	0.00
2,800.0	7.92	69.66	2,796.3	21.7	58.4	-17.4	0.00	0.00	0.00
2,900.0	7.92	69.66	2,895.4	26.4	71.3	-21.2	0.00	0.00	0.00
3,000.0	7.92 7.92	69.66	2,994.4	31.2	84.3	-21.2 -25.1	0.00	0.00	0.00
3,100.0	7.92 7.92	69.66	3,093.5	36.0	97.2	-28.9	0.00	0.00	0.00
3,200.0	7.92	69.66	3,192.5	40.8	110.1	-32.8	0.00	0.00	0.00
3,300.0	7.92	69.66	3,291.6	45.6	123.0	-36.6	0.00	0.00	0.00
3,400.0	7.92	69.66	3,390.6	50.4	135.9	-4 0.5	0.00	0.00	0.00
3,500.0	7.92	69.66	3,489.6	55.2	148.8	-44.3	0.00	0.00	0.00
3,600.0	7.92	69.66	3,588.7	60.0	161.8	-48.1	0.00	0.00	0.00
3,700.0	7.92	69.66	3,687.7	64.7	174.7	-52.0	0.00	0.00	0.00
3,800.0	7.92	69.66	3,786.8	69.5	187.6	-55.8	0.00	0.00	0.00
3,900.0	7.92	69.66	3,885.8	74.3	200.5	-59.7	0.00	0.00	0.00
4,000.0	7.92	69.66	3,984.9	79.1	213.4	-63.5	0.00	0.00	0.00
4,100.0	7.92	69.66	4,083.9	83.9	226.3	-67.4	0.00	0.00	0.00
4,200.0	7.92	69.66	4,183.0	88.7	239.3	-71.2	0.00	0.00	0.00
4,300.0	7.92	69.66	4,282.0	93.5	252.2	-75.1	0.00	0.00	0.00
4,400.0	7.92	69.66	4,381.1	98.3	265.1	-78.9	0.00	0.00	0.00
4,500.0	7.92	69.66	4,480.1	103.0	278.0	-82.8	0.00	0.00	0.00
4,600.0	7.92	69.66	4,579.2	107.8	290.9	-86.6	0.00	0.00	0.00
4,700.0	7.92	69.66	4,678.2	112.6	303.8	-90.4	0.00	0.00	0.00
4,800.0 4,900.0	7.92 7.92	69.66 69.66	4,777.3 4,876.3	117.4 122.2	316.7 329.7	-94.3 -98.1	0.00 0.00	0.00 0.00	0.00 0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Eddy County, New Mexico NAD 83
Texas Toothpick 12/13 B2CN Fed Com #1H

Well: Sec 1, T20S, R30E

Wellbore: BHL: 100' FSL & 1980' FWL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Texas Toothpick 12/13 B2CN Fed Com

#11

WELL @ 3347.0usft (Original Well Elev) WELL @ 3347.0usft (Original Well Elev)

Grid

Design:	Design #1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	7.92	69.66	4,975.3	127.0	342.6	-102.0	0.00	0.00	0.00
5,100.0	7.92	69.66	5,074.4	131.8	355.5	-105.8	0.00	0.00	0.00
5,200.0	7.92	69.66	5,173.4	136.6	368.4	-109.7	0.00	0.00	0.00
5,300.0	7.92	69.66	5,272.5	141.4	381.3	-113.5	0.00	0.00	0.00
5,400.0	7.92	69.66	5,371.5	146.1	394.2	-117.4	0.00	0.00	0.00
5,500.0	7.92	69.66	5,470.6	150.9	407.2	-121.2	0.00	0.00	0.00
5,600.0	7.92	69.66	5,569.6	155.7	420.1	-125.0	0.00	0.00	0.00
5,700.0	7.92	69.66	5,668.7	160.5	433.0	-128.9	0.00	0.00	0.00
5,800.0	7.92	69.66	5,767.7	165.3	445.9	-132.7	0.00	0.00	0.00
5,900.0	7.92	69.66	5,866.8	170.1	458.8	-136.6	0.00	0.00	0.00
6,000.0	7.92	69.66	5,965.8	174.9	471.7	-140.4	0.00	0.00	0.00
6,100.0	7.92	69.66	6,064.9	179.7	484.7	-144.3	0.00	0.00	0.00
6,200.0	7,92	69.66	6,163.9	184.4	497.6	-148.1	0.00	0.00	0.00
6,300.0	7.92	69.66	6,263.0	189.2	510.5	-152.0	0.00	0.00	0.00
6,400.0	7.92	69.66	6,362.0	194.0	523.4	-155.8	0.00	0.00	0.00
6,500.0	7.92	69.66	6,461.0	198.8	536.3	-159.6	0.00	0.00	0.00
6,600.0	7.92	69.66	6,560.1	203.6	549.2	-163.5	0.00	0.00	0.00
6,700.0	7.92	69.66	6,659.1	208.4	562.1	-167.3	0.00	0.00	0.00
6,800.0	7.92	69.66	6,758.2	213.2	575.1	-171.2	0.00	0.00	0.00
6,900.0	7.92	69.66	6,857.2	218.0	588.0	-175.0	0.00	0.00	0.00
7,000.0	7.92	69.66	6,956.3	222.7	600.9	-178.9	0.00	0.00	0.00
7,100.0	7.92	69.66	7,055.3	227.5	613.8	-182.7	0.00	0.00	0.00
7,200.0	7.92	69.66	7,154.4	232.3	626.7	-186.6	0.00	0.00	0.00
7,300.0	7.92	69.66	7,253.4	237.1	639.6	-190.4	0.00	0.00	0.00
7,400.0	7.92	69.66	7,352.5	241.9	652.6	-194.2	0.00	0.00	0.00
7,500.0	7.92	69.66	7,451.5	246.7	665.5	-198.1	0.00	0.00	0.00
7,600.0	7.92	69.66	7,550.6	251.5	678.4	-201.9	0.00	0.00	0.00
7,700.0	7.92	69.66	7,649.6	256.3	691.3	-205.8	0.00	0.00	0.00
7,802.8	7.92	69.66	7,751.4	261.2	704.6	-209.7	0.00	0.00	0.00
7,900.0	5.97	69.66	7,847.9	265.3	715.6	-213.0	2.00	-2.00	0.00
8,000.0	3.97	69.66	7,947.5	268.3	723.7	-215.4	2.00	-2.00	0.00
8,100.0	1.97	69.66	8,047.4	270.1	728.6	-216.9	2.00	-2.00	0.00
8,198.6	0.00	0.00	8,146.0	270.7	730.2	-217.4	2.00	-2.00	0.00
KOP: 473' F	SL & 1980' FWL	(Sec 1)							
8,200.0	0.14	179.79	8,147.4	270.7	730.2	-217.3	10.00	10.00	0.00
8,250.0	5.14	179.79	8,197.3	268.4	730.2	-215.1	10.00	10.00	0.00
8,300.0	10.14	179.79	8,246.8	261.7	730.2	-208.4	10.00	10.00	0.00
8,350.0	15.14	179.79	8,295.6	250.8	730.3	-197.5	10.00	10.00	0.00
8,400.0	20.14	179.79	8,343.3	235.6	730.3	-182.4	10.00	10.00	0.00
8,450.0	25.14	179.79	8,389.4	216.4	730.4	-163.2	10.00	10.00	0.00
8,500.0	30.13	179.79	8,433.7	193.2	730.5	-140.1	10.00	10.00	0.00
8,550.0	35.13	179.79	8,475.8	166.3	730.6	-113.2	10.00	10.00	0.00
8,600.0	40.13	179.79	8,515.3	135.7	730.7	-82.7	10.00	10.00	0.00
8,650.0	45.13	179.79	8,552.1	101.9	730.8	- 49.0	10.00	10.00	0.00
8,700.0	50.13	179.79	8,585.8	65.0	730.9	-12.1	10.00	10.00	0.00
8,750.0	55.13	179.79	8,616.1	25.2	731.1	27.5	10.00	10.00	0.00
8,800.0	60.13	179.79	8,642.9	-17.0	731.2	69.6	10.00	10.00	0.00
8,850.0	65.13	179.79	8,665.9	-61.4	731.4	113.9	10.00	10.00	0.00
8,900.0	70.13	179.79	8,684.9	-107.6	731.6	160.0	10.00	10.00	0.00
8,950.0	75.13	179.79	8,699.8	-155.3	731.8	207.6	10.00	10.00	0.00
9,000.0	80.13	179.79	8,710.5	-204.1	731.9	256.3	10.00	10.00	0.00
9,050.0	85.13	179.79	8,716.9	-253.7	732.1	305.8	10.00	10.00	0.00
9,096.9	89.82	179.79	8,719.0	-300.5	732.3	352.5	10.00	10.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Eddy County, New Mexico NAD 83
Texas Toothpick 12/13 B2CN Fed Com #1H

Well: Sec 1, T20S, R30E

Wellbore: BHL: 100' FSL & 1980' FWL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Texas Toothpick 12/13 B2CN Fed Com

#1F

WELL @ 3347.0usft (Original Well Elev) WELL @ 3347.0usft (Original Well Elev)

Grid

	Design #1								
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)
9,098.7	89.82	179.79	8,719.0	-302.3	732.3	354.3	0.00	0.00	0.00
FTP/LP: 10	00' FNL & 1980' FV	VL (Sec 12)							
9,100.0	89.82	179.79	8,719.0	-303.6	732.3	355.6	0.00	0.00	0.00
9,200.0		179.79	8,719.3	-403.6	732.7	455.4	0.00	0.00	0.00
9,300.0	89.82	179.79	8,719.6	-503.6	733.0	555.1	0.00	0.00	0.00
9,400.0		179.79	8,720.0	-603.6	733.4	654.9	0.00	0.00	0.00
9,500.0	89.82	179.79	8,720.3	-703.6	733.8	754.7	0.00	0.00	0.00
9,600.0		179.79	8,720.6	-803.6	734.1	854.4	0.00	0.00	0.00
9,700.0		179.79	8,720.9	-903.6	734.5	954.2	0.00	0.00	0.00
9,800.0		179.79	8,721.2	-1,003.6	734.9	1,054.0	0.00	0.00	0.00
9,900.0		179.79	8,721.6 8,721.0	-1,103.6 1,203.6	735.2	1,153.7	0.00	0.00	0.00
10,000.0		179.79	8,721.9	-1,203.6	735.6	1,253.5	0.00	0.00	0.00
10,100.0		179.79	8,722.2	-1,303.6	736.0	1,353.3	0.00	0.00	0.00
10,200.0 10,300.0		179.79 179.79	8,722.5 8,722.8	-1,403.6 -1,503.6	736.4 736.7	1,453.0 1,552.8	0.00 0.00	0.00 0.00	0.00 0.00
10,300.0		179.79	8,722.8 8,723.1	-1,503.6 -1,603.6	736.7 737.1	1,552.6	0.00	0.00	0.00
10,400.0		179.79	8,723.1 8,723.5	-1,603.6 -1,703.6	737.1 737.5	1,052.0	0.00	0.00	0.00
10,600.0		179.79	8,723.8	-1,803.6	737.8	1,852.1	0.00	0.00	0.00
10,700.0		179.79	8,724.1	-1,903.6	737.0	1,951.9	0.00	0.00	0.00
10,800.0		179.79	8.724.4	-2,003.6	738.6	2.051.6	0.00	0.00	0.00
10,900.0		179.79	8,724.7	-2,103.6	738.9	2,151.4	0.00	0.00	0.00
11,000.0		179.79	8,725.1	-2,203.6	739.3	2,251.2	0.00	0.00	0.00
11,100.0	89.82	179.79	8,725.4	-2,303.6	739.7	2,350.9	0.00	0.00	0.00
11,200.0	89.82	179.79	8,725.7	-2,403.6	740.0	2,450.7	0.00	0.00	0.00
11,300.0	89.82	179.79	8,726.0	-2,503.6	740.4	2,550.4	0.00	0.00	0.00
11,400.0		179.79	8,726.3	-2,603.6	740.8	2,650.2	0.00	0.00	0.00
11,500.0	89.82	179.79	8,726.7	-2,703.6	741.1	2,750.0	0.00	0.00	0.00
11,600.0		179.79	8,727.0	-2,803.6	741.5	2,849.7	0.00	0.00	0.00
11,648.2		179.79	8,727.1	-2,851.8	741.7	2,897.8	0.00	0.00	0.00
	7' FSL & 1980' FW		0.707.0	0.000.0	744.0	0.040.5	0.00	0.00	0.00
11,700.0		179.79	8,727.3	-2,903.6	741.9	2,949.5	0.00	0.00	0.00
11,800.0 11,900.0		179.79 179.79	8,727.6 8,727.9	-3,003.6 -3,103.6	742.3 742.6	3,049.3 3,149.0	0.00 0.00	0.00 0.00	0.00 0.00
12,000.0		179.79	8,728.2	-3,203.6	743.0	3,248.8	0.00	0.00	0.00
12,100.0		179.79	8,728.6	-3,303.6	743.4	3,348.6	0.00	0.00	0.00
12,200.0 12,300.0		179.79 179.79	8,728.9 8,729.2	-3,403.6 -3,503.6	743.7 744.1	3,448.3 3,548.1	0.00 0.00	0.00 0.00	0.00 0.00
12,300.0		179.79	8,729.2 8,729.5	-3,503.6 -3,603.6	744.1 744.5	3,548.1	0.00	0.00	0.00
•						·			
12,500.0 12,600.0		179.79 179.79	8,729.8 8,730.2	-3,703.6 -3,803.6	744.8 745.2	3,747.6 3,847.4	0.00 0.00	0.00 0.00	0.00 0.00
12,700.0		179.79	8,730.5	-3,903.6	745.2 745.6	3,947.4	0.00	0.00	0.00
12,700.0		179.79	8,730.8	-4,003.6	745.9	4,046.9	0.00	0.00	0.00
12,900.0		179.79	8,731.1	-4,103.6	746.3	4,146.7	0.00	0.00	0.00
13,000.0	89.82	179.79	8,731.4	-4,203.6	746.7	4,246.5	0.00	0.00	0.00
13,044.7		179.79	8,731.6	-4,248.3	746.8	4,291.0	0.00	0.00	0.00
PPP3: 1312	2' FSL & 1980' FW	'L (Sec 12)							
13,100.0		179.79	8,731.7	-4,303.6	747.0	4,346.2	0.00	0.00	0.00
13,200.0		179.79	8,732.1	-4,403.6	747.4	4,446.0	0.00	0.00	0.00
13,300.0	89.82	179.79	8,732.4	-4,503.6	747.8	4,545.8	0.00	0.00	0.00
13,400.0		179.79	8,732.7	-4,603.6	748.2	4,645.5	0.00	0.00	0.00
13,500.0		179.79	8,733.0	-4,703.6	748.5	4,745.3	0.00	0.00	0.00
13,600.0		179.79	8,733.3	-4,803.6	748.9	4,845.1	0.00	0.00	0

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Eddy County, New Mexico NAD 83
Texas Toothpick 12/13 B2CN Fed Com #1H

Well: Sec 1, T20S, R30E

Wellbore: BHL: 100' FSL & 1980' FWL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Texas Toothpick 12/13 B2CN Fed Com

#11

WELL @ 3347.0usft (Original Well Elev) WELL @ 3347.0usft (Original Well Elev)

Grid

Depth Inclination Azimuth Depth +N/-S +E/-W Section Rate Rate Ra	Planned Survey									
13,800.0 89.82 179.79 8,734.0 -5,003.6 759.0 5,144.4 0.00 0.00 1,4000.0 89.82 179.79 8,734.9 -5,003.6 750.4 5,244.1 0.00 0.00 1,4000.0 89.82 179.79 8,734.9 -5,033.6 750.4 5,244.1 0.00 0.00 1,4000.0 89.82 179.79 8,734.9 -5,033.6 750.7 5,345.9 0.00 0.00 0.00 1,4000.0 89.82 179.79 8,734.9 -5,033.6 750.7 5,345.9 0.00 0.00 0.00 1,4000.0 89.82 179.79 8,734.9 -5,033.6 750.7 5,345.9 0.00 0.00 0.00 1,4000.0 89.82 179.79 8,735.6 -5,503.6 751.5 5,543.4 0.00 0.00 0.00 1,4000.0 89.82 179.79 8,735.6 -5,503.6 751.5 5,543.4 0.00 0.00 0.00 1,4500.0 89.82 179.79 8,736.2 -5,703.6 752.2 5,742.9 0.00 0.00 0.00 1,4500.0 89.82 179.79 8,736.2 -5,703.6 752.2 5,742.9 0.00 0.00 0.00 1,4500.0 89.82 179.79 8,736.8 -5,903.6 752.9 5,942.5 0.00 0.00 0.00 1,4000.0 89.82 179.79 8,736.8 -5,903.6 752.9 5,942.5 0.00 0.00 0.00 1,4000.0 89.82 179.79 8,736.8 -5,903.6 752.9 5,942.5 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,737.5 -6,103.6 753.3 6,422 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,737.5 -6,103.6 753.3 6,422 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,737.5 -6,103.6 754.0 6,441.3 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.1 -6,303.6 754.0 6,441.3 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.1 -6,303.6 754.0 6,441.3 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.7 -6,303.6 754.0 6,441.3 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.7 -6,303.6 754.5 6,441.3 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.7 -6,303.6 754.5 6,441.3 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.7 -6,303.6 754.5 6,441.3 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.7 -6,303.6 755.5 6,440.8 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.7 -6,303.6 755.9 6,740.8 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.7 -6,303.6 755.9 6,740.8 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,738.7 -6,303.6 755.9 6,740.8 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,744.0 -7,003.6 756.7 7,739.7 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,744.0 -7,003.6 756.6 6,940.1 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,744.0 -7,003.6 756.7 7,739.7 0.00 0.00 0.00 0.00 1,5000.0 89.82 179.79 8,744.0 -7,003.5 759.5 759.9 7,838.0 0.00 0.00 0.00 0.00 1,5000.0	Depth			Depth			Section	Rate	Rate	Turn Rate (°/100usft)
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15,200.0 89.82 179.79 8,738.4 -6,403.6 754.8 6,441.3 0.00 0.00 15,300.0 89.82 179.79 8,738.7 -6,503.6 755.2 6,541.1 0.00 0.00 15,500.0 89.82 179.79 8,738.7 -6,503.6 755.2 6,640.8 0.00 0.00 15,500.0 89.82 179.79 8,739.1 -6,803.6 755.9 6,740.6 0.00 0.00 15,500.0 89.82 179.79 8,739.7 -6,803.6 756.3 6,840.4 0.00 0.00 15,500.0 89.82 179.79 8,739.7 -6,812.5 756.3 6,840.4 0.00 0.00 15,500.9 89.82 179.79 8,739.7 -6,812.5 756.3 6,840.4 0.00 0.00 15,500.9 89.82 179.79 8,740.0 -6,903.6 756.3 6,840.3 0.00 0.00 15,500.0 89.82 179.79 8,740.0 -6,903.6 756.6 6,940.1 0.00 0.00 15,500.0 89.82 179.79 8,740.0 -7,103.6 757.0 7,039.9 0.00 0.00 15,900.0 89.82 179.79 8,740.7 -7,103.6 757.4 7,139.7 0.00 0.00 16,000.0 89.82 179.79 8,741.0 -7,403.6 757.7 7,294 0.00 0.00 16,100.0 89.82 179.79 8,741.0 -7,403.6 757.7 7,294 0.00 0.00 16,100.0 89.82 179.79 8,741.0 -7,403.5 758.5 7,439.0 0.00 0.00 16,200.0 89.82 179.79 8,741.6 -7,403.5 758.5 7,439.0 0.00 0.00 16,400.0 89.82 179.79 8,741.6 -7,403.5 758.5 7,839.0 0.00 0.00 16,400.0 89.82 179.79 8,741.9 -7,503.5 758.5 7,839.0 0.00 0.00 16,400.0 89.82 179.79 8,741.9 -7,503.5 758.5 7,838.0 0.00 0.00 16,500.0 89.82 179.79 8,741.9 -7,503.5 759.9 7,838.0 0.00 0.00 16,500.0 89.82 179.79 8,742.9 -7,803.5 759.9 7,838.0 0.00 0.00 16,500.0 89.82 179.79 8,742.9 -7,803.5 759.9 7,838.0 0.00 0.00 16,500.0 89.82 179.79 8,742.9 -7,803.5 759.9 7,838.0 0.00 0.00 16,500.0 89.82 179.79 8,743.2 -7,903.5 760.3 7,937.8 0.00 0.00 17,000.0 89.82 179.79 8,744.2 -8,203.5 760.1 8,337.5 0.00 0.00 17,000.0 89.82 179.79 8,744.5 -8,003.5 760.7 8,337.5 0.00 0.00 17,000.0 89.82 179.79 8,744.5 -8,003.5 760.7 8,337.5 0.00 0.00 17,000.0 89.82 179.79 8,744.5 -8,003.5 760.7 8,337.5 0.00 0.00 17,000.0 89.82 179.79 8,744.5 -8,003.5 760.7 8,337.5 0.00 0.00 17,000.0 89.82 179.79 8,744.5 -8,003.5 760.7 8,336.6 0.00 0.00 0.00 17,000.0 89.82 179.79 8,744.5 -8,003.5 760.3 8,836.0 0.00 0.00 0.00 17,000.0 89.82 179.79 8,744.5 -8,003.5 760.5 8,836.6 0.00 0.00 0.00 17,000.0 89.82 179.79 8,744.5 -8,003.5 760.5 8,836.6 0.00 0.00 0.00 17,000.0 89.82	15,000.0	89.82	179.79	8,737.8	-6,203.6	754.0	6,241.8	0.00	0.00	0.00
15,300.0 89.82 179.79 8,738.7 -6,503.6 755.2 6,541.1 0,00 0,00 15,400.0 89.82 179.79 8,739.1 -6,603.6 755.5 6,640.8 0,00 0,00 15,600.0 89.82 179.79 8,739.7 -6,803.6 755.5 6,640.8 0,00 0,00 15,600.0 89.82 179.79 8,739.7 -6,803.6 756.3 6,840.4 0,00 0,00 0,00 15,608.9 89.82 179.79 8,739.7 -6,812.5 756.3 6,840.4 0,00 0,00 0,00 15,608.9 89.82 179.79 8,740.0 -6,903.6 756.6 6,940.1 0,00 0,00 0,00 15,600.0 89.82 179.79 8,740.0 -6,903.6 756.6 6,940.1 0,00 0,00 0,00 15,800.0 89.82 179.79 8,740.0 -7,103.6 757.0 7,039.9 0,00 0,00 0,00 15,800.0 89.82 179.79 8,740.0 -7,203.6 757.0 7,039.9 0,00 0,00 0,00 16,000.0 89.82 179.79 8,741.0 -7,203.6 757.7 7,239.4 0,00 0,00 0,00 16,000.0 89.82 179.79 8,741.0 -7,203.6 757.7 7,239.4 0,00 0,00 0,00 16,200.0 89.82 179.79 8,741.3 -7,303.6 758.1 7,339.2 0,00 0,00 0,00 16,200.0 89.82 179.79 8,741.3 -7,303.6 758.1 7,339.2 0,00 0,00 0,00 16,200.0 89.82 179.79 8,741.9 -7,503.5 758.5 7,439.0 0,00 0,00 16,400.0 89.82 179.79 8,741.9 -7,503.5 758.5 758.5 7,439.0 0,00 0,00 16,600.0 89.82 179.79 8,742.6 -7,703.5 759.2 7,638.5 0,00 0,00 16,600.0 89.82 179.79 8,742.6 -7,703.5 759.2 7,638.5 0,00 0,00 16,600.0 89.82 179.79 8,742.2 -7,603.5 759.2 7,638.5 0,00 0,00 16,600.0 89.82 179.79 8,743.2 -7,603.5 759.9 7,838.0 0,00 0,00 16,600.0 89.82 179.79 8,743.2 -7,803.5 759.9 7,838.0 0,00 0,00 16,600.0 89.82 179.79 8,743.2 -7,803.5 759.9 7,838.0 0,00 0,00 16,600.0 89.82 179.79 8,743.2 -7,803.5 759.9 7,838.0 0,00 0,00 17,000.0 89.82 179.79 8,744.2 8,203.5 750.3 7,937.8 0,00 0,00 0,00 17,000.0 89.82 179.79 8,744.2 8,203.5 750.3 7,937.8 0,00 0,00 0,00 17,000.0 89.82 179.79 8,744.2 8,203.5 760.3 8,366.6 0,00 0,00 17,000.0 89.82 179.79 8,744.5 8,303.5 761.1 8,137.3 0,00 0,00 0,00 17,000.0 89.82 179.79 8,744.2 8,203.5 761.4 8,237.1 0,00 0,00 0,00 17,000.0 89.82 179.79 8,744.5 8,303.5 761.8 8,336.8 0,00 0,00 0,00 17,000.0 89.82 179.79 8,744.5 8,803.5 761.8 8,336.8 0,00 0,00 0,00 17,000.0 89.82 179.79 8,744.5 8,803.5 761.8 8,336.8 0,00 0,00 0,00 17,000.0 89.82 179.79 8,745.1 8,803.5 765.5 8,536.4 0,00 0,00 0,00 17,000	15,100.0		179.79	8,738.1	-6,303.6	754.4	6,341.5	0.00	0.00	0.00
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17,400.0 89.82 179.79 8,745.4 -8,603.5 762.9 8,636.1 0.00 0.00 17,500.0 89.82 179.79 8,745.8 -8,703.5 763.3 8,735.9 0.00 0.00 17,600.0 89.82 179.79 8,746.1 -8,803.5 763.6 8,835.7 0.00 0.00 17,700.0 89.82 179.79 8,746.4 -8,903.5 764.0 8,935.4 0.00 0.00 17,800.0 89.82 179.79 8,746.7 -9,003.5 764.4 9,035.2 0.00 0.00 17,900.0 89.82 179.79 8,747.0 -9,103.5 764.7 9,135.0 0.00 0.00 18,000.0 89.82 179.79 8,747.3 -9,203.5 765.1 9,234.7 0.00 0.00 18,100.0 89.82 179.79 8,747.7 -9,303.5 765.5 9,334.5 0.00 0.00 18,200.0 89.82 179.79 8,748.0 -9,403.5 765.5 9,434.3 0.00 0.00 18,246.7 89.82 179.79	17,300.0	89.82	179.79	8,745.1	-8,503.5	762.5	8,536.4	0.00	0.00	0.00
17,500.0 89.82 179.79 8,745.8 -8,703.5 763.3 8,735.9 0.00 0.00 17,600.0 89.82 179.79 8,746.1 -8,803.5 763.6 8,835.7 0.00 0.00 17,700.0 89.82 179.79 8,746.4 -8,903.5 764.0 8,935.4 0.00 0.00 17,800.0 89.82 179.79 8,746.7 -9,003.5 764.4 9,035.2 0.00 0.00 17,900.0 89.82 179.79 8,747.0 -9,103.5 764.7 9,135.0 0.00 0.00 18,000.0 89.82 179.79 8,747.3 -9,203.5 765.1 9,234.7 0.00 0.00 18,100.0 89.82 179.79 8,747.7 -9,303.5 765.5 9,334.5 0.00 0.00 18,200.0 89.82 179.79 8,748.0 -9,403.5 765.8 9,434.3 0.00 0.00 18,246.7 89.82 179.79 8,748.1 -9,450.2 766.0 9,480.9 0.00 0.00										0.00
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18,246.7 89.82 179.79 8,748.1 -9,450.2 766.0 9,480.9 0.00 0.00	· ·									0.00
	•				•					
PPP5: 1315' FSL & 1980' FWL (Sec 13)				8,748.1	-9,450.2	766.0	9,480.9	0.00	0.00	0.00
				0.740.6	0.500.5	700.0	0.504.6	0.00	2.22	2.22
18,300.0 89.82 179.79 8,748.3 -9,503.5 766.2 9,534.0 0.00 0.00										0.00
18,400.0 89.82 179.79 8,748.6 -9,603.5 766.6 9,633.8 0.00 0.00 18,500.0 89.82 179.79 8,748.9 -9,703.5 767.0 9,733.6 0.00 0.00										0.00 0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Eddy County, New Mexico NAD 83
Texas Toothpick 12/13 B2CN Fed Com #1H

Well: Sec 1, T20S, R30E

Wellbore: BHL: 100' FSL & 1980' FWL (Sec 13)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Texas Toothpick 12/13 B2CN Fed Com

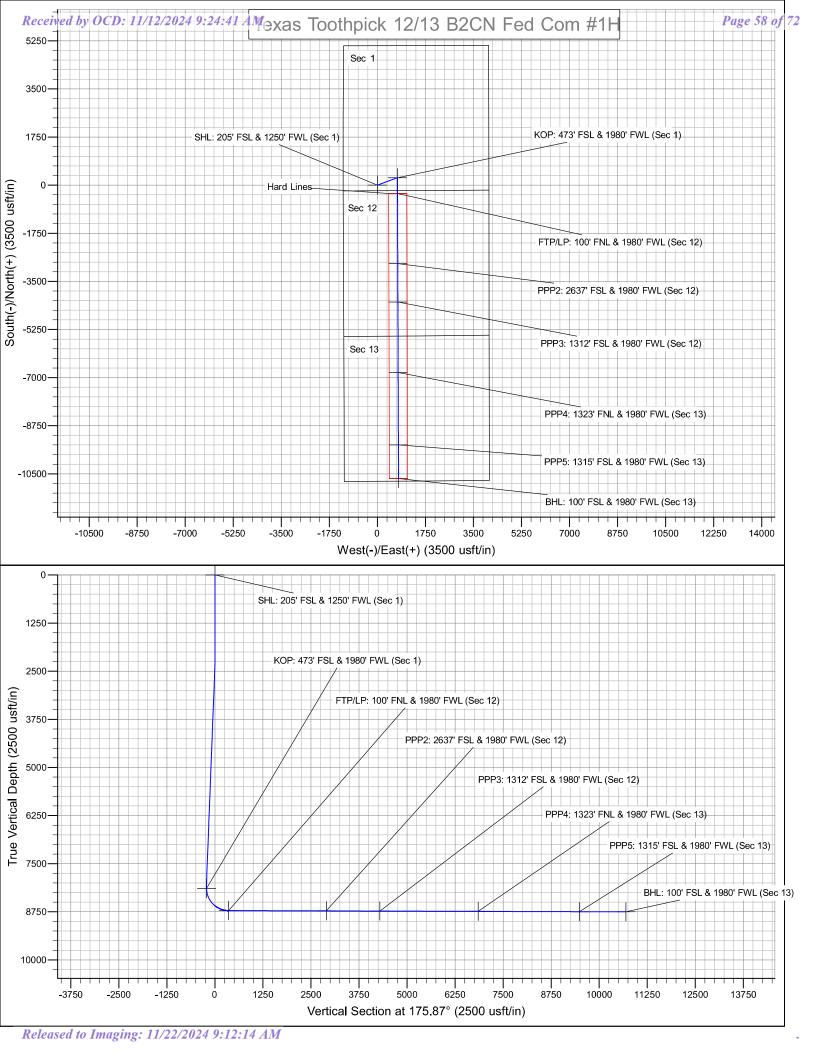
#1H

WELL @ 3347.0usft (Original Well Elev) WELL @ 3347.0usft (Original Well Elev)

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,600.0	89.82	179.79	8,749.3	-9,803.5	767.3	9,833.3	0.00	0.00	0.00
18,700.0	89.82	179.79	8,749.6	-9,903.5	767.7	9,933.1	0.00	0.00	0.00
18,800.0	89.82	179.79	8,749.9	-10,003.5	768.1	10,032.9	0.00	0.00	0.00
18,900.0	89.82	179.79	8,750.2	-10,103.5	768.4	10,132.6	0.00	0.00	0.00
19,000.0	89.82	179.79	8,750.5	-10,203.5	768.8	10,232.4	0.00	0.00	0.00
19,100.0	89.82	179.79	8,750.8	-10,303.5	769.2	10,332.2	0.00	0.00	0.00
19,200.0	89.82	179.79	8,751.2	-10,403.5	769.5	10,431.9	0.00	0.00	0.00
19,300.0	89.82	179.79	8,751.5	-10,503.5	769.9	10,531.7	0.00	0.00	0.00
19,400.0	89.82	179.79	8,751.8	-10,603.5	770.3	10,631.5	0.00	0.00	0.00
19,462.5	89.82	179.79	8,752.0	-10,666.0	770.5	10,693.8	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 205' FSL & 1250' F - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	580,654.10	665,492.00	32.5956242	-103.9301930
KOP: 473' FSL & 1980' F - plan hits target cent - Point	0.00 er	0.00	8,146.0	270.7	730.2	580,924.77	666,222.19	32.5963605	-103.9278188
FTP/LP: 100' FNL & 198 - plan hits target cent - Point	0 <u>.</u> 00 er	0.00	8,719.0	-302.3	732.3	580,351.77	666,224.30	32.5947855	-103.9278190
PPP2: 2637' FSL & 198(- plan hits target cent - Point	0.00 er	0.00	8,727.1	-2,851.8	741.7	577,802.32	666,233.70	32.5877778	-103.9278200
PPP3: 1312' FSL & 198(- plan hits target cent - Point	0.00 er	0.00	8,731.6	-4,248.3	746.8	576,405.84	666,238.85	32.5839393	-103.9278206
PPP4: 1323' FNL & 198(- plan hits target cent - Point	0.00 er	0.00	8,739.7	-6,812.5	756.3	573,841.64	666,248.30	32.5768910	-103.9278217
PPP5: 1315' FSL & 198(- plan hits target cent - Point	0.00 er	0.00	8,748.1	-9,450.2	766.0	571,203.86	666,258.02	32.5696405	-103.9278227
BHL: 100' FSL & 1980' F - plan hits target cent - Point	0.00 er	0.00	8,752.0	-10,666.0	770.5	569,988.10	666,262.50	32.5662987	-103.9278232



•	rator Nar vbourne	^{me:} e Oil Com	npany			1	erty Na as Too า		ck 1	2/13	B2C	N F€	ed	Well Numbe 1H
Cick C	Off Point	(KOP)												
UL N	Section	Township 20S	Range 30E	Lot	Feet 473		From N/S		Feet 1980		From	ı E/W	County	
Latitu	1 ^{Ide} 596360		SUE		Longitu	ude	s 8188		1900	, [vv		NAD 83	
	Γake Poir	nt (FTP)	Don	164	Foot-		From NI	<u> </u>	Fost	T	- Francis	- F /\A\	Court	
UL C	Section 12	20S	Range 30E	Lot	Feet 100		From N/S N		Feet 1980	I	From W	ı E/W	County Eddy	
Latitu 32.	ide 594785	55			Longitu -103		8190	·					NAD 83	
₋ast T	ake Poin	t (LTP)												
UL N	Section 13	Township 20S	Range 30E	Lot	Feet 100	From	, ,	Feet 1980		From E	/W	Count		
Latitu 32.	ide 566298			l	Longitu -103		8232					NAD 83		
		defining v	vell for th	e Hori:	zontal S _l	pacing	Unit?	Υ]				
	l is yes p ng Unit.	lease provi	ide API if	availak	ole, Ope	rator N	Name ar	nd we	ell nu	ımber	for [Definir	ng well fo	or Horizontal

Property Name:

KZ 06/27/2018

Well Number

Operator Name:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY

WELL NAME & NO.: TEXAS TOOTHPICK 12/13 B2CN FED COM 1H

APD ID: 10400088971

LOCATION: Section 1, T20S, R30E. NMP.

COUNTY: Eddy County, New Mexico

COA

H ₂ S	0	No	•	Yes
Potash /	None	Secretary	⊙ R-111-Q	Open Annulus
WIPP	4-String Design: Open	2nd Int x Production Casing	g (ICP 2 above Relief Z	Zone) 🔲 WIPP
Cave / Karst	C Low	Medium	C 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	C Waste Min. Plan	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.

APD is within the R-111-Q defined boundary. Operator must follow all applicable procedures and requirements listed within the Order No. R-111-Q.

B. CASING

Note: The approval has only been granted for the primary casing program at this time.

- 1. The 18-5/8-inch surface casing shall be set at approximately 420 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the

- cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 13-3/8 inch 1st intermediate casing shall be set in a competent bed at approximately 2,100 ft. The minimum required fill of cement behind the 13-3/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, and Potash.

Note: the 2nd intermediate casing set depth was adjusted per BLM geologist recommendation. "The operator proposes to set second intermediate casing at 3,800 feet, BLM accepts 3,600 feet the base of the Capitan Reef APD well casing set depth and rock type."

3. The 9-5/8 inch 2nd intermediate casing shall be set in a competent bed at approximately 3,600 ft. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage): Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, and Potash.

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool: Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, and Potash.

Note: Excess cement for the 2nd stage is below %25. More cement might be needed.

- **4.** Operator has proposed to set 7" production casing at approximately **8,199 ft.** (8,146 ft. TVD). The minimum required fill of cement behind the **7** inch production casing is:
 - Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.

- a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, and Potash.
 - **Note:** In the first stage, Zero percent excess shall be pumped on the production cementing slurry to ensure no tie-back into the 2nd intermediate casing shoe.
- b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back at least 500 ft. into the 2nd intermediate casing and below the Marker Bed 126. If cement does not circulate, the appropriate BLM office shall be notified.
- ❖ Operator must run a cement evaluation tool (fluid shot tool, Temperature log or CBL, etc.) to verify TOC after the second stage bradenhead. Submit the results to the BLM. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.
- A monitored open annulus will be incorporated during completion by leaving the 2nd Intermediate Casing x Production Casing annulus un-cemented and monitored inside the 2nd Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.
- 5. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Offline Cementing

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

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Before drilling the surface casing shoe out, the BOP/BOPE and annular preventer shall be pressure-tested in accordance with title 43 CFR 3172 and API Standard 53.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

SA 11/08/2024

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

- 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. <u>Visual Warning Systems</u>

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

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

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

Description of cuttings location

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

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TEXAS TOOTHPICK 12/13 B2CN FED COM Well Number: 1H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Texas_Toothpick_12_13_B2CN_Fed_Com_1H_WellSiteLayout_20221103070219.pdf

Comments: NONE

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: Texas Toothpick 12/13 CN & DM Fed Com

1H

Multiple Well Pad Number: 2

Recontouring

Drainage/Erosion control construction: None **Drainage/Erosion control reclamation:** None

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

(acres): 3.8 1.04 (acres): 2.76

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

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

(acres): 0 (acres): 0

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

(acres): 0

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

Total proposed disturbance: 3.8 Total interim reclamation: 1.04 Total long term disturbance: 2.76

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

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

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

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 402466

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	402466
	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.	11/12/2024
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/12/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	11/22/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/22/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	11/22/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	11/22/2024
ward.rikala	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	11/22/2024
ward.rikala	Operator must comply with all of the R-111-Q requirements.	11/22/2024
ward.rikala	This well is within the Capitan Reef. The 1st intermediate string shall be sat and cemented back to surface immediately above the top of the Capitan Reef. The 2nd intermediate string shall be sat and cemented back to surface immediately below the base of the Capitan Reef.	11/22/2024