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. NMNM114355 **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: NMNM135781X/FNR UNIT 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 **FNR FEDERAL UNIT** 37H 2. Name of Operator 9. API Well No. MEWBOURNE OIL COMPANY 30**-0**15**-5**6033 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory FORTY NINER RIDGE/BONE SPRING P O BOX 5270, HOBBS, NM 88241 (575) 393-5905 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 17/T23S/R30E/NMP At surface SWNE / 2466 FNL / 1849 FEL / LAT 32.3055852 / LONG -103.9008406 At proposed prod. zone NWNE / 100 FNL / 2100 FEL / LAT 32.3411912 / LONG -103.9017286 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State **EDDY** NM 10 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 100 feet location to nearest property or lease line, ft. 320.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 20 feet 10054 feet / 23567 feet FED: applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3216 feet 10/29/2022 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 09/29/2022 (Electronic Submission) Title Regulatory Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 12/19/2024 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

APPROVED WITH CONDITIONS Released to Imaging: 1/22/2025 1:06:43 PM Approval Date: 12/19/2024

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.

applicant to conduct operations thereon. Conditions of approval, if any, are attached.

<u>C-10</u>		<u>2/2025 9:16</u>		ergy. Mi	State of Nonerals & Natu		Mexico Resources Departi	ment		Revised July 9, 2024			
Submit	Electronicall	V	Lin				ON DIVISION	iiciii		1			
	D Permitting	•							Submi	tta1	XInitial Submittal		
								Type:			d Report		
										□ As	Drille	ed	
			Т		WELL LOCA		ON INFORMATION						
30-015	Pool Code Pool Name FORTY NINER RIDGE; BONE SP												
Propert 31754	erty Code 645 Property Name FNR FEDERAL UNIT						37H						
OGRIE	No. 147	7 44	Operator N	ame ME	WBOURNI	E C	OIL COMPAN	Y		Grour	nd Lev	vel Elevation 216	
Surface	Owner: 🗆 S	State ☐ Fee ☐	Tribal XFed	leral			Mineral Owner:	State Fe	e 🗆 Tribal	Federal			
					Su	rface	e Location						
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude		Longitude	;	County	
G	17	23S	30E		2466 FN	L	1849 FEL	32.30	55852	-103.900	8406	EDDY	
	L	l	<u>I</u>	·	Botto	m H	ole Location	L		l			
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude	:	Longitude	;	County	
2	5	23S	30E		100 FNL		2100 FEL	32.34	11912	-103.901	7286	EDDY	
			•		•			•		•			
Dedicated Acres Infill or Defining Well Defining W				g Well API		Overlapping Spacing	g Unit (Y/N) Consoli	dation Code	:			
32	320 DEFINING												
Order Numbers.							Well setbacks are ur	nder Comm	on Ownersh	p: □Yes □	No		
					Kick	Off 1	Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W		Latitude		;	County	
J	17	23S	30E		2081 FSI	L	2100 FEL	32.30	35206	-103.9016751		EDDY	
					First '	Take	e Point (FTP)						
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude				County	
G	17	23S	30E		2642 FNL	=	2100 FEL	32.30	50961	-103.901	6773	EDDY	
	T	Т	Т	T	1	Гаke	Point (LTP)	<u> </u>		T		1	
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude		Longitude		County	
В	5	23S	30E		100 FNL		2100 FEL	32.34	11912	-103.901	7286	EDDY	
** *.*	1.4	CAT :C		T					1.71	DI C			
Unitize	Unitized Area or Area of Uniform Interest Spacing Unit Type (X)Hor						rizontal U Vertical Ground Floor Elevation: 3216						
OPER A	ATOR CERT	TFICATIONS				S	SURVEYOR CERTIF	ICATIONS					
my know organize includin location interest,	vledge and beli ation either ow g the proposed pursuant to a	ef, and, if the wel ns a working inte 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 tht to drill th ing interest o	rest in the land	s n	I hereby certify that the well location shown on this plat was plotted from field notes of surveys made by me or under my supervision, and that the same is true and correct to the lamy belief.						
in each interval	of at least one tract (in the tai will be located	lessee or owner of rget pool or formal for obtained a co	of a working inte ation) in which a mpulsory poolin	rest or unlea ny part of th	has received the used mineral interest e well's completed the division.	t							
Ryan Mcdanisl 1/2/25													

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

Signature and Seal of Professional Surveyor

Date of Survey

RYANMCDANIEL@MEWBOURNE.COM

Printed Name

Email Address

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

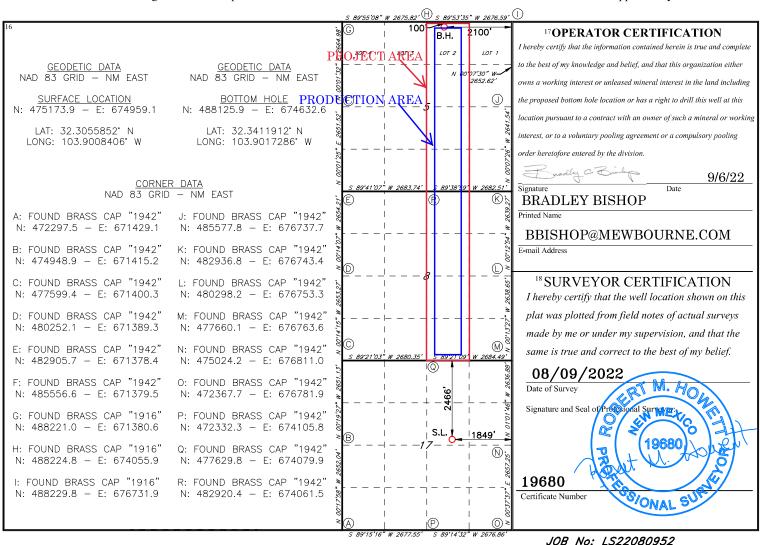
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number	r		² Pool Code	Code 3 Pool Name										
				24720	FORTY NINER RIDGE; BONE SPRING										
⁴ Property Co	de	FNR FEDERAL UNIT 6 Well						1 7							
7 OGRID 7				MEWI	8 Operator N BOURNE OI	lame L COMPANY			⁹ Elevation 3216'						
¹⁰ Surface Location															
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/W	est line	st line County					
G	17	23S	30E		2466	NORTH	1849	EAS	ST	EDDY					
			¹¹]	Bottom E	Iole Location	If Different Fr	om Surface								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County					
2	5	23S	30E		100	NORTH	2100	EAS	ST	T EDDY					
12 Dedicated Acre	s 13 Joint	or Infill 14	Consolidation	Code 15 (Order No.				•						
320	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

	172	ATUKAL GA	70 MAINA									
This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.												
Section 1 – Plan Description Effective May 25, 2021												
I. Operator: Mewbourne Oil Co. OGRID: 14744 Date: 5/2/22												
II. Type: ★ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.												
If Other, please describe												
III. Well(s): Provide the be recompleted from a s	e following info ingle well pad	ormation for each or connected to a c	new or recomple entral delivery p	eted well or set of vooint.	wells proposed to	be drilled or proposed to						
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D						
FNR Federal Unit 37H		E 17 23S 30E	2452' FNL x 1863'	FWL 1500	1000	2500						
IV. Central Delivery Pov. Anticipated Schedul proposed to be recompleted.	le: Provide the	following informa	FNR Federal Untion for each netended to a cent	w or recompleted w		9.15.27.9(D)(1) NMAC] s proposed to be drilled or						
Well Name	API	Spud Date	TD Reached Date	Completion Commencement								
FNR Federal Unit 37H		7/2/22	8/2/22	9/2/22	9/17/2	2 9/17/22						
VII. Operational Prac Subsection A through F	tices: Attaconf 19.15.27.8	h a complete descr NMAC.	ription of the ac	tions Operator will	I take to comply	at to optimize gas capture. with the requirements of tices to minimize venting						

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting	the,
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacit	y 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	gas
production volume from the well prior to the date of first production.	

KIII. 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 b	y the new we	ell(s).

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

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

Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

Signature:	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	pproval:

Mewbourne Oil Company

Natural Gas Management Plan - Attachment

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

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

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

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

Well Name: FNR FEDERAL UNIT

Drilling Plan Data Report

APD ID: 10400087905

Submission Date: 09/29/2022

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 37H

Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14719097	UNKNOWN	3216	28	28	OTHER : Topsoil	NONE	N
14719108	TOP SALT	2781	435	435	SALT	NONE	N
14719109	BASE OF SALT	-214	3430	3430	SALT	NONE	N
14719111	LAMAR	-374	3590	3590	LIMESTONE	NATURAL GAS, OIL	N
14719105	BELL CANYON	-414	3630	3630	SANDSTONE	NATURAL GAS, OIL	N
14719106	CHERRY CANYON	-1034	4250	4250	SANDSTONE	NATURAL GAS, OIL	N
14719116	MANZANITA	-1394	4610	4610	LIMESTONE	NATURAL GAS, OIL	N
14719122	BRUSHY CANYON	-2524	5740	5740	SANDSTONE	NATURAL GAS, OIL	N
14719123	BONE SPRING	-4284	7500	7500	LIMESTONE, SHALE	NATURAL GAS, OIL	N
14719124	BONE SPRING 1ST	-5184	8400	8400	SANDSTONE	NATURAL GAS, OIL	N
14719125	BONE SPRING 2ND	-5874	9090	9090	SANDSTONE	NATURAL GAS, OIL	Y
14719126	BONE SPRING 3RD	-7104	10320	10320	SANDSTONE	NATURAL GAS, OIL	N
14719127		-7534	10750	10750	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Well Name: FNR FEDERAL UNIT Well Number: 37H

Pressure Rating (PSI): 5M Rating Depth: 23567

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

Requesting Variance? YES

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

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

Choke Diagram Attachment:

FNR_Federal_Unit_37H_Flex_Line_Specs_20220911213040.pdf

FNR_Federal_Unit_37H_Flex_Line_Specs_API_16C_20220911213040.pdf

FNR Federal Unit 37H 5M BOPE Choke Diagram 20220911213040.pdf

BOP Diagram Attachment:

FNR_Federal_Unit_37H_5M_BOPE_Schematic_20220911213058.pdf

FNR_Federal_Unit_37H_5M_Mutli_Bowl_WH_20220911213058.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	380	0	380	3244	2864	380	H-40	48	ST&C	4.43	9.95	DRY	17.6 5	DRY	29.6 6
	INTERMED IATE	12 . 2 5	9.625	NEW	API	N	0	3453	0	3453		-209	3453	J-55	36	LT&C	1.13	1.96	DRY	3.56	DRY	4.43
	INTERMED IATE	12 <u>.</u> 2 5	9.625	NEW	API	N	3453	3530	3453	3530	-271	-286	77	J-55	40	LT&C	1.4	2.15	DRY	99 <u>.</u> 9 9	DRY	99.9 9
4	PRODUCTI ON	8.75	7.0	NEW	API	N	0	9470	0	9416		-6172		P- 110	26	LT&C	1.31	2.09	DRY	2.6	DRY	3.37
5	LINER	6.12 5	4.5	NEW	API	N	9270	23567	9218	10054	-5974	-6810	14297	P- 110	13.5	BUTT	1.7	1.98	DRY	2.3	DRY	2.19

Well Name: FNR FEDERAL UNIT Well Number: 37H

Casing Attachments
Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
One in a Parisma Annual attention and Westerland (A)
Casing Design Assumptions and Worksheet(s):
FNR_Federal_Unit_37H_Csg_Assumptions_20220911213459.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
FNR_Federal_Unit_37H_Csg_Assumptions_20220911213311.pdf
Casing ID: 3 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
FNR_Federal_Unit_37H_Csg_Assumptions_20220911213543.pdf

Well Name: FNR FEDERAL UNIT Well Number: 37H

Casing Attachments

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $FNR_Federal_Unit_37H_Csg_Assumptions_20220911213237.pdf$

Casing ID: 5

String

LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

FNR_Federal_Unit_37H_Csg_Assumptions_20220911213413.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	193	130	2.12	12.5	276	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		193	380	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	2850	530	2.12	12.5	1124	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		2850	3530	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	4580	4030	4162	20	2.12	12.5	42	0	Class C	Salt, Gel, Extender, LCM, Defoamer

Well Name: FNR FEDERAL UNIT Well Number: 37H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		4162	4580	100	1.34	14.8	134	0	Class C	Retarder
PRODUCTION	Lead	4580	4580	6383	130	2.12	12.5	276	0	Class C	Salt, Gel, Extender, LCM Defoamer
PRODUCTION	Tail		6383	9470	400	1.18	15.6	472	0	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9270	2356 7	910	1.85	13.5	1684	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Lost circulation material, sweeps, mud scavengers

Describe the mud monitoring system utilized: Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	380	SPUD MUD	8.4	8.8							
380	3530	SALT SATURATED	10	10							
3530	9470	WATER-BASED MUD	8.6	9.7							

Well Name: FNR FEDERAL UNIT Well Number: 37H

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
9470	2356 7	OIL-BASED MUD	8.8	12							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP to surface in deeper offset: FNR Fed Unit #39H.

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6274 Anticipated Surface Pressure: 4062

Anticipated Bottom Hole Temperature(F): 195

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

FNR Federal Unit 37H H2S Plan 20220911214055.pdf

Well Name: FNR FEDERAL UNIT Well Number: 37H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

FNR_Federal_Unit_37H_MOC_DIR_PLOT_20220911214115.pdf FNR_Federal_Unit_37H_MOC_DIR_PLAN_20220911214115.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

FNR_Federal_Unit_37H_Additional_Information___Permitting_20220911214121.pdf FNR_Fed_Unit_37H_Geology_20230922105151.pdf

Other Variance attachment:

FNR_Federal_Unit_37H_Variance_Request_20220911214126.pdf



GATES E & S NORTH AMERICA, INC. 134 44TH STREET CORPUS CHRISTI, TEXAS 78405 PHONE: 361-887-9807 FAX: 361-887-0812

EMAIL: Tim.Cantu@gates.com

WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer : Customer Ref. :

AUSTIN DISTRIBUTING

Test Date: Hose Serial No.: 4/30/2015 D-043015-7

Invoice No. :

4060578 500506

Created By:

JUSTIN CROPPER

Product Description:

10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1:

Working Pressure:

Gates Part No. :

4 1/16 10K FLG 4773-6290 10,000 PSI End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 10K FLG

L36554102914D-043015-7

15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager:

Date:

Signature :

QUALITY

4/30/2015

Produciton:

Date:

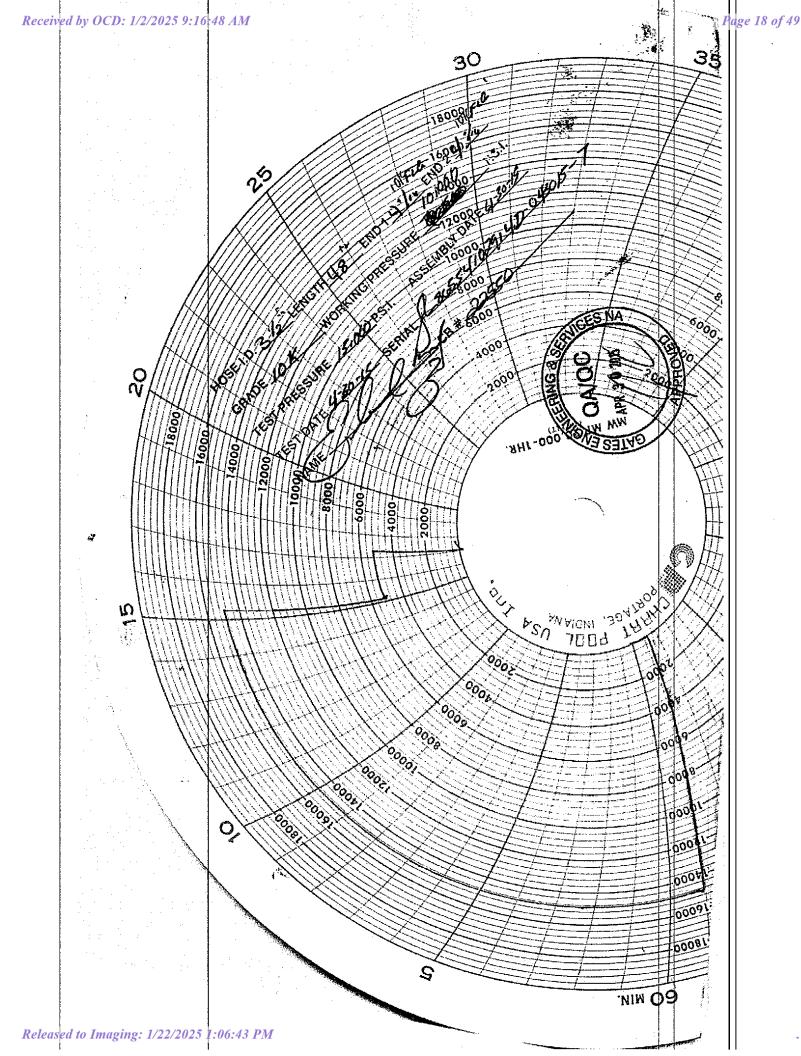
Signature :

PRODUCTION

. 4/30/2015

Forn PTC - 01 Rev.0 2







GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Houston, TX 77086 PHONE: (281) 602 - 4119

FAX:

EMAIL: Troy.Schmidt@gates.com

WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

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

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

Quality:

Date : Signature : QUALITY

8/20/2018

Production: Date:

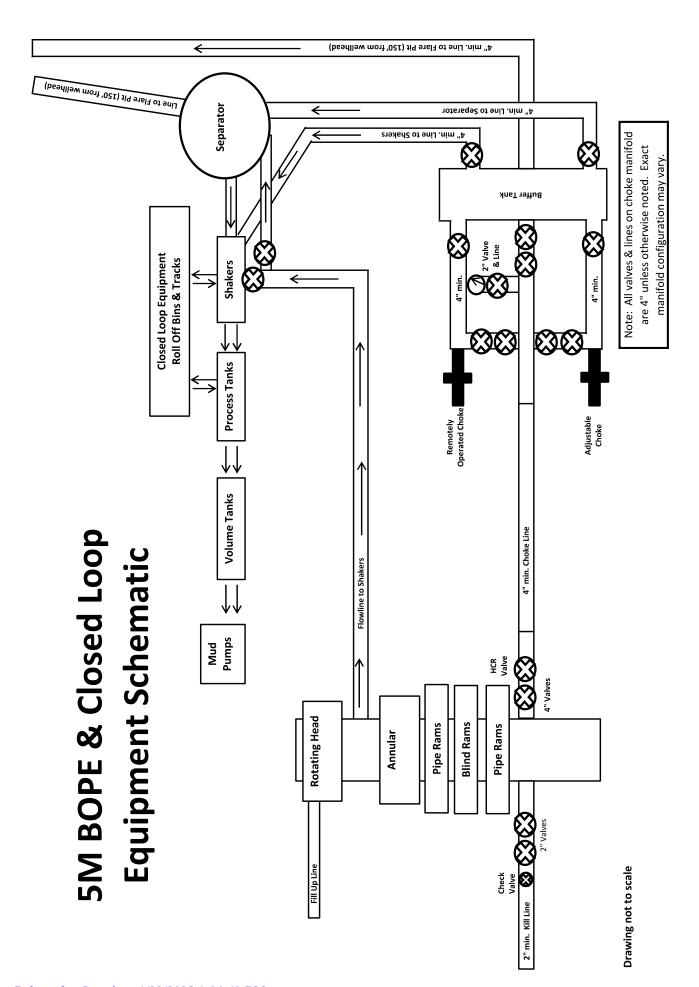
Signature:

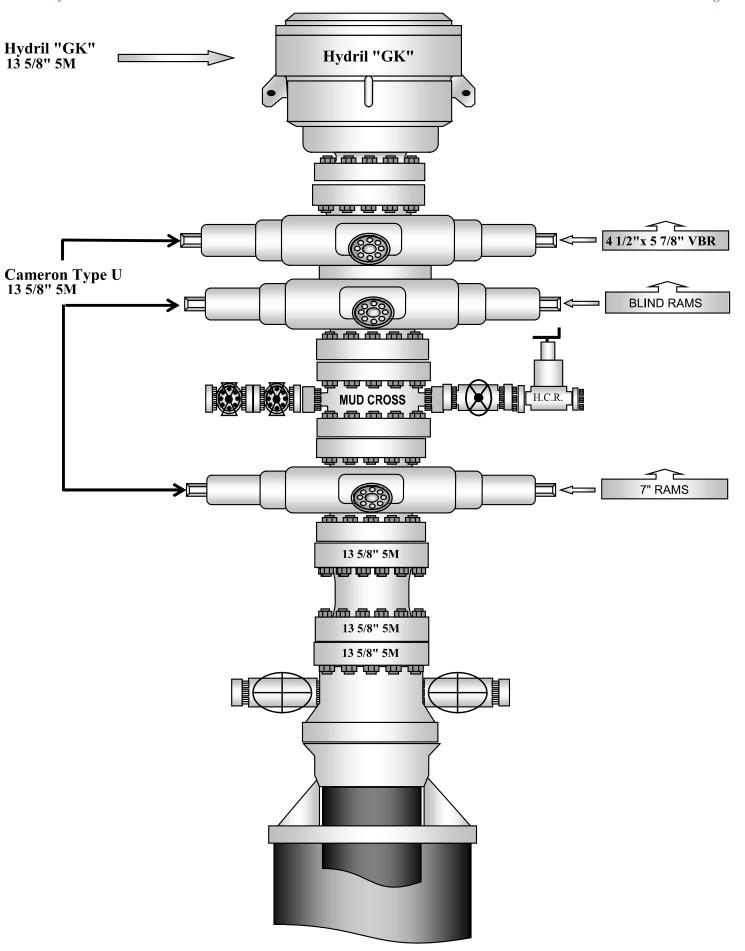
8/20/2018

PRODUCTION

Form PTC - 01 Rev.0 2

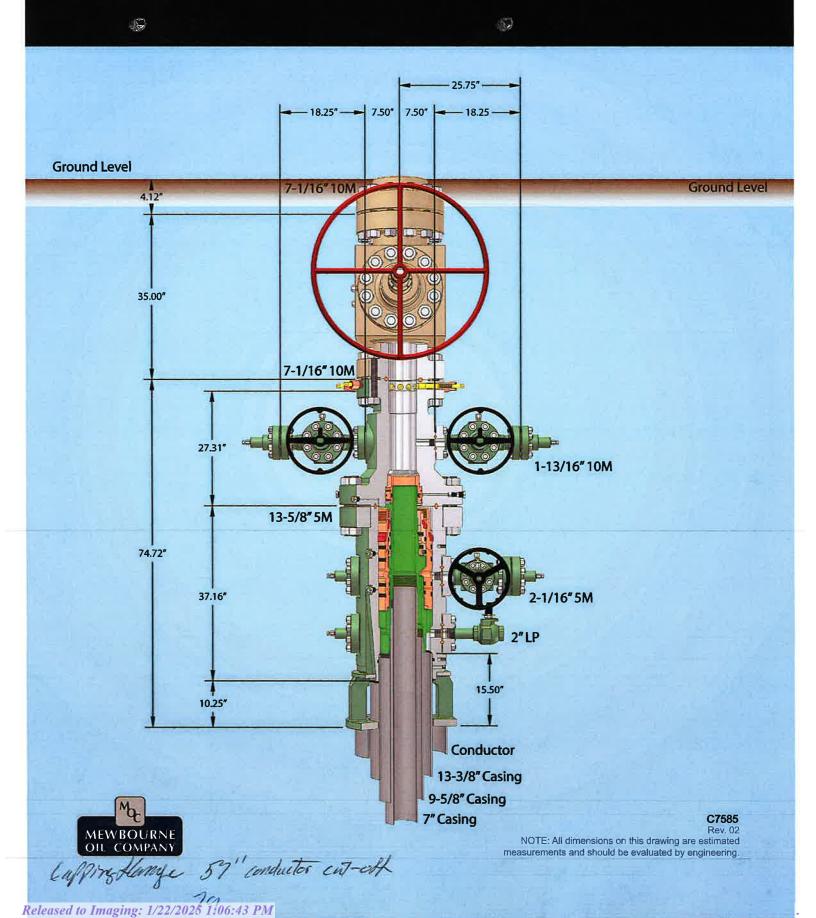








13-5/8" MN-DS Wellhead System



SHL: 2466' FNL & 1849' FEL, Sec 17 BHL: 100' FNL & 2100' FEL, Sec 5

Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	380'	13.375"	48	H40	STC	4.43	9.95	17.65	29.66
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	3.56	4.43
12.25"	3453'	3530'	9.625"	40	J55	LTC	1.40	2.15	168.81	204.52
8.75"	0'	9470'	7"	26	P110	LTC	1.31	2.09	2.60	3.37
6.125"	9270'	23567'	4.5"	13.5	P110	BUTT	1.70	1.98	2.30	2.19
	•	•		BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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: 2466' FNL & 1849' FEL, Sec 17 BHL: 100' FNL & 2100' FEL, Sec 5

Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	380'	13.375"	48	H40	STC	4.43	9.95	17.65	29.66
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12.25"	3453'	3530'	9.625"	40	J55	LTC	1.40	2.15	168.81	204.52
8.75"	0'	9470'	7"	26	P110	LTC	1.31	2.09	2.60	3.37
6.125"	9270'	23567'	4.5"	13.5	P110	BUTT	1.70	1.98	2.30	2.19
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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: 2466' FNL & 1849' FEL, Sec 17 BHL: 100' FNL & 2100' FEL, Sec 5

Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
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	•	•		BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
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Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
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SHL: 2466' FNL & 1849' FEL, Sec 17 BHL: 100' FNL & 2100' FEL, Sec 5

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				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	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
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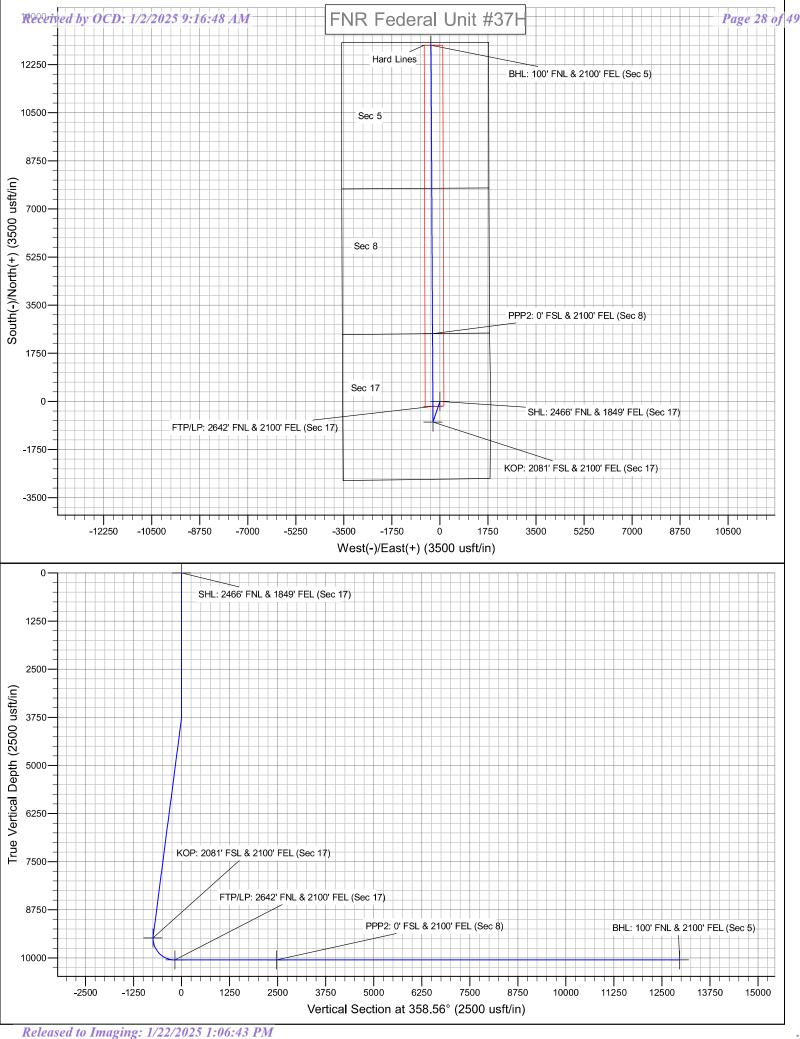
SHL: 2466' FNL & 1849' FEL, Sec 17 BHL: 100' FNL & 2100' FEL, Sec 5

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				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
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Is well located in R-111-P and SOPA?	Y
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Mewbourne Oil Company

Eddy County, New Mexico NAD 83 FNR Federal Unit #37H

Sec 17, T23S, R30E

SHL: 2466' FNL & 1849' FEL (Sec 17) BHL: 100' FNL & 2100' FEL (Sec 5)

Plan: Design #1

Standard Planning Report

31 August, 2022

Database: Company:

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

FNR Federal Unit #37H Sec 17, T23S, R30E

Wellbore:

Design:

BHL: 100' FNL & 2100' FEL (Sec 5)

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site FNR Federal Unit #37H

WELL @ 3244.0usft (Original Well Elev) WELL @ 3244.0usft (Original Well Elev)

Minimum Curvature

Project Eddy County, New Mexico NAD 83

Map System: Geo Datum:

Map Zone:

Project:

Site:

Well:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Ground Level

FNR Federal Unit #37H Site

Site Position: From:

Мар Easting:

Slot Radius:

475,173.90 usft Latitude: 674,959.10 usft

Longitude:

32.3055853 -103.9008405

32.3055853

3,216.0 usft

-103.9008405

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

Well Sec 17, T23S, R30E

Well Position +N/-S 0.0 usft 475,173.90 usft Latitude: Northing: +E/-W 0.0 usft Easting: 674,959.10 usft Longitude: 0.0 usft Wellhead Elevation: 3,244.0 usft Ground Level: **Position Uncertainty**

Northing:

Grid Convergence: 0.23

BHL: 100' FNL & 2100' FEL (Sec 5)

Field Strength Magnetics **Model Name** Sample Date Declination Dip Angle (°) (nT) (°) IGRF2010 12/31/2014 7.31 60.12 48,252.00129701

Design Design #1

Audit Notes:

Wellbore

PROTOTYPE Version: Phase: Tie On Depth: 0,0

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 358.56 0.0 0.0 0.0

Plan Survey Tool Program

8/31/2022 Date

Depth From Depth To

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

0.0 23,567.2 Design #1 (BHL: 100' FNL & 2100

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	
3,750.0	0.00	0.00	3,750.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,750.0	7.89	198.72	3,750.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,535.8	7.89	198.72	9,481.0	-752.2	-254.8	0.00	0.00	0.00	0.00	
9,535.8	0.00	0.00	9,481.0	-752.2	-254.8	0.00	0.00	0.00	0.00	KOP: 2081' FSL & 210
10,435.8	90.00	359.70	10,054.0	-179.2	-257.8	10.00	10.00	0.00	-0.30	
23,567.2	90.00	359.70	10,054.0	12,952.0	-326.5	0.00	0.00	0.00	0.00	BHL: 100' FNL & 210(

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: FNR Federal Unit #37H

Well: Sec 17, T23S, R30E

Wellbore: BHL: 100' FNL & 2100' FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site FNR Federal Unit #37H

WELL @ 3244.0usft (Original Well Elev) WELL @ 3244.0usft (Original Well Elev)

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	FNL & 1849' FEL	• •							
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
0.008	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	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
•			•						
1,500.0	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
2,200,0	0,00	0,00	2,200,0	0.0	0.0	0.0	0.00	0,00	0,00
2,300.0	0.00	0,00	2,300,0	0.0	0.0	0.0	0.00	0,00	0.00
2,400.0	0,00	0.00	2,400.0	0.0	0.0	0.0	0.00	0,00	0.00
	0.00				0.0			0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,750.0	7.89	198.72	3,750.0	0.0	0.0	0.0	15.78	15.78	0.00
3,800.0	7.89	198.72	3,799.5	-6.5	-2.2	-6.4	0.00	0.00	0.00
3,900.0	7.89	198.72	3,898.6	-19.5	-6.6	-19.3	0.00	0.00	0.00
4,000.0	7.89	198.72	3,997.6	-32.5	-11.0	-32.2	0.00	0.00	0.00
4,100.0	7.89	198.72	4,096.7	-45.5	-15.4	-45.1	0.00	0.00	0.00
4,200.0	7.89	198.72	4,195.7	-58.5	-19.8	-58.0 70.0	0.00	0.00	0.00
4,300.0	7.89	198.72	4,294.8	-71.5	-24.2	- 70.9	0.00	0.00	0.00
4,400.0	7.89	198.72	4,393.8	-84.5	-28.6	-83.8	0.00	0.00	0.00
4,500.0	7.89	198.72	4,492.9	-97.5	-33.0	-96.6	0.00	0.00	0.00
4,600.0	7.89	198.72	4,592.0	-110.5	-37.4	-109.5	0.00	0.00	0.00
4,700.0	7.89	198.72	4,691.0	-123.5	-41.8	-122.4	0.00	0.00	0.00
4,800.0	7.89	198.72	4,790.1	-136.5	-46.2	-135.3	0.00	0.00	0.00
4,900.0 5,000.0	7.89	198.72 108.72	4,889.1	-149.5	-50.6 55.1	-148.2 161.1	0.00	0.00	0.00
5,000.0	7.89 7.89	198.72 198.72	4,988.2 5,087.2	-162.5 -175.5	-55.1 -59.5	-161.1 -173.9	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
FNR Federal Unit #37H

Well: Sec 17, T23S, R30E

Wellbore: BHL: 100' FNL & 2100' FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site FNR Federal Unit #37H

WELL @ 3244.0usft (Original Well Elev) WELL @ 3244.0usft (Original Well Elev)

Grid

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	7.89	198.72	5,186.3	-188.5	-63.9	-186.8	0.00	0.00	0.00
5,300.0	7.89	198.72	5,285.3	-201.5	-68.3	-199.7	0.00	0.00	0.00
5,400.0	7.89	198.72	5,384.4	-214.5	-72.7	-212.6	0.00	0.00	0.00
5,500.0	7.89	198.72	5,483.4	-227.5	-77.1	-225.5	0.00	0.00	0.00
5,600.0	7.89	198.72	5,582.5	-240.5	-81.5	-238.4	0.00	0.00	0.00
5,700.0	7.89	198.72	5,681.5	-253.5	-85.9	-251.3	0.00	0.00	0.00
5,800.0	7.89	198.72	5,780.6	-266.5	-90.3	-264.1	0.00	0.00	0.00
5,900.0	7.89	198.72	5,879.6	-279.5	-94.7	-277.0	0.00	0.00	0.00
6,000.0	7.89	198.72	5,978.7	-292.5	-99.1	-289.9	0.00	0.00	0.00
6,100.0	7.89	198.72	6,077.8	-305.5	-103.5	-302.8	0.00	0.00	0.00
6,200.0	7.89	198.72	6,176.8	-318.5	-107.9	-315.7	0.00	0.00	0.00
6,300.0	7.89	198.72	6,275.9	-331.5	-112.3	-328.6	0.00	0.00	0.00
,									
6,400.0	7.89	198.72	6,374.9	-344.5	-116.7	-341.4	0.00	0.00	0.00
6,500.0	7.89	198.72	6,474.0	-357.5	-121.1	-354.3	0.00	0.00	0.00
6,600.0	7.89	198.72	6,573.0	-370.5	-125.5	-367.2	0.00	0.00	0.00
6,700.0	7.89	198.72	6,672.1	-383.5	-129.9	-380.1	0.00	0.00	0.00
6,800.0	7.89	198.72	6,771.1	-396.5	-134.3	-393.0	0.00	0.00	0.00
6,900.0	7.89	198.72	6,870.2	-409.5	-138.7	-405.9	0.00	0.00	0.00
7,000.0	7.89	198.72	6,969.2	-422.5	-143.1	-418.8	0.00	0.00	0.00
7,100.0	7.89	198.72	7,068.3	-435.5	-147.5	-431.6	0.00	0.00	0.00
7,200.0	7.89	198.72	7,167.3	-448.5	-151.9	-444.5	0.00	0.00	0.00
7,300.0	7.89	198.72	7,266.4	-461.5	-156.4	-457.4	0.00	0.00	0.00
7 400 0	7.90	100 70	7 265 E	474 5	160.9	470.2	0.00	0.00	0.00
7,400.0 7,500.0	7.89 7.89	198.72 198.72	7,365.5	-474.5 -487.5	-160.8 -165.2	-470.3 -483.2	0.00	0.00 0.00	0.00
			7,464.5						
7,600.0	7.89	198.72	7,563.6	-500.5	-169.6	-496.1	0.00	0.00	0.00
7,700.0	7.89	198.72	7,662.6	-513.5	-174.0	-509.0	0.00	0.00	0.00
7,800.0	7.89	198.72	7,761.7	-526.5	-178.4	-521.8	0.00	0.00	0.00
7,900.0	7.89	198.72	7,860.7	-539.5	-182.8	-534.7	0.00	0.00	0.00
8,000.0	7.89	198.72	7,959.8	-552.5	-187.2	-547.6	0.00	0.00	0.00
8,100.0	7.89	198.72	8,058.8	-565.5	-191.6	-560.5	0.00	0.00	0.00
8,200.0	7.89	198.72	8,157.9	-578.5	-196.0	-573.4	0.00	0.00	0.00
8,300.0	7.89	198.72	8,256.9	-591.5	-200.4	-586.3	0.00	0.00	0.00
8.400.0	7.89	198.72	8,356.0	-604.5	-204.8	-599.1	0.00	0.00	0.00
8,500.0	7.89	198.72	8,455.0	-617.5	-204.0	-612.0	0.00	0.00	0.00
8,600.0	7.89	198.72	8,554.1	-630.5	-213.6	-624.9	0.00	0.00	0.00
8,700.0	7.89	198.72	8,653.1	-643.5	-218.0	-637.8	0.00	0.00	0.00
8,800.0	7.89	198.72	8,752.2	-656.5	-210.0	-650.7	0.00	0.00	0.00
8,900.0	7.89	198.72	8,851.3	-669.5	-226.8	-663.6	0.00	0.00	0.00
9,000.0	7.89	198.72	8,950.3	-682.5	-231.2	-676.5	0.00	0.00	0.00
9,100.0	7.89	198.72	9,049.4	-695.5	-235.6	-689.3	0.00	0.00	0.00
9,200.0	7.89	198.72	9,148.4	-708.5	-240.0	-702.2	0.00	0.00	0.00
9,300.0	7.89	198.72	9,247.5	-721.5	-244.4	-715.1	0.00	0.00	0.00
9,400.0	7.89	198.72	9,346.5	-734.5	-248.8	-728.0	0.00	0.00	0.00
9,500.0	7.89	198.72	9,445.6	-747.5	-253.2	-740.9	0.00	0.00	0.00
9,535.8	0.00	0.00	9,481.0	-752.2	-254.8	-745.5	22.04	-22.04	0.00
·	FSL & 2100' FEL		,						
9,600.0	6.42	359.70	9,545.1	-748.6	-254.8	-741.9	10.00	10.00	0.00
9,700.0	16.42	359.70	9,545.1	-746.6 -728.8	-254.6 -254.9	-741.9 -722.1	10.00	10.00	0.00
· ·									
9,800.0	26.42	359.70	9,736.0	-692.3	-255.1	-685.7	10.00	10.00	0.00
9,900.0	36.42	359.70	9,821.2	-640.3	-255.4	-633.6	10.00	10.00	0.00
10,000.0	46.42	359.70	9,896.1	-574.2	-255.8	-567.6	10.00	10.00	0.00
10,100.0	56.42	359.70	9,958.4	-496.1	-256.2	-489.5	10.00	10.00	0.00
10,200.0	66.42	359.70	10,006.2	-408.4	-256.6	-401.8	10.00	10.00	0.00

Hobbs Database:

Mewbourne Oil Company

Company: Project:

Eddy County, New Mexico NAD 83

FNR Federal Unit #37H Site:

Well: Wellbore: Sec 17, T23S, R30E BHL: 100' FNL & 2100' FEL (Sec 5) Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site FNR Federal Unit #37H

WELL @ 3244.0usft (Original Well Elev) WELL @ 3244.0usft (Original Well Elev)

Design:	Design #1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	76.42	359.70	10,038.0	-313.7	-257.1	-307.2	10.00	10.00	0.00
10,400.0	86.42	359.70	10,052.9	-215.0	-257.6	-208.4	10.00	10.00	0.00
10,435.8	90.00	359.70	10,054.0	-179.2	-257.8	-172.6	10.00	10.00	0.00
10,436.0	90.00	359.70	10,054.0	-179.0	-257.8	-172.4	0.00	0.00	0.00
FTP/LP: 2642 10,500.0	' FNL & 2100' F 90.00	EL (Sec 17) 359.70	10,054.0	-115.0	-258.2	-108.5	0.00	0.00	0.00
10,600.0	90.00	359.70	10,054.0	-15.0	-258.7	-8.5	0.00	0.00	0.00
10,700.0	90.00	359.70	10,054.0	85.0	-259.2	91.5	0.00	0.00	0.00
10,800.0	90.00	359.70	10,054.0	185.0	-259.7	191.5	0.00	0.00	0.00
10,900.0	90.00	359.70	10,054.0	285.0	-260.2	291.5	0.00	0.00	0.00
11,000.0	90.00	359.70	10,054.0	385.0	-260.8	391.4	0.00	0.00	0.00
11,100.0	90.00	359.70	10,054.0	485.0	-261.3	491.4	0.00	0.00	0.00
11,200.0	90.00	359.70	10,054.0	585.0	-261.8	591.4	0.00	0.00	0.00
11,300.0	90.00	359.70	10,054.0	685.0	-262.3	691.4	0.00	0.00	0.00
11,400.0	90.00	359.70	10,054.0	785.0	-262.9	791.4	0.00	0.00	0.00
11,500.0	90.00	359.70	10,054.0	885.0	-263.4	891.3	0.00	0.00	0.00
11,600.0	90.00	359.70	10,054.0	985.0	-263.9	991.3	0.00	0.00	0.00
11,700.0	90.00	359.70	10,054.0	1,085.0	-264.4	1,091.3	0.00	0.00	0.00
11,800.0	90.00	359.70	10,054.0	1,185.0	-265.0	1,191.3	0.00	0.00	0.00
11,900.0	90.00	359.70	10,054.0	1,285.0	-265.5	1,291.3	0.00	0.00	0.00
12,000.0	90.00	359.70	10,054.0	1,385.0	-266.0	1,391.2	0.00	0.00	0.00
12,100.0	90.00	359.70	10,054.0	1,485.0	-266.5	1,491.2	0.00	0.00	0.00
12,200.0	90.00	359.70	10,054.0	1,585.0	-267.0	1,591.2	0.00	0.00	0.00
12,300.0	90.00	359.70	10,054.0	1,685.0	-267.6	1,691.2	0.00	0.00	0.00
12,400.0	90.00	359.70	10,054.0	1,785.0	-268.1	1,791.2	0.00	0.00	0.00
12,500.0	90.00	359.70	10,054.0	1,885.0	-268.6	1,891.1	0.00	0.00	0.00
12,600.0	90.00	359.70	10,054.0	1,985.0	-269.1	1,991.1	0.00	0.00	0.00
12,700.0	90.00	359.70	10,054.0	2,085.0	-269.7	2,091.1	0.00	0.00	0.00
12,800.0	90.00	359.70	10,054.0	2,185.0	-270.2	2,191.1	0.00	0.00	0.00
12,900.0	90.00	359.70	10,054.0	2,285.0	-270.7	2,291.1	0.00	0.00	0.00
13,000.0	90.00	359.70	10,054.0	2,385.0	-271.2	2,391.0	0.00	0.00	0.00
13,077.5	90.00	359.70	10,054.0	2,462.5	-271.6	2,468.6	0.00	0.00	0.00
13,100.0 13,200.0 13,300.0 13,400.0	& 2100' FEL (S 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70	10,054.0 10,054.0 10,054.0 10,054.0	2,485.0 2,585.0 2,685.0 2,785.0	-271.8 -272.3 -272.8 -273.3	2,491.0 2,591.0 2,691.0 2,791.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
13,500.0	90.00	359.70	10,054.0	2,884.9	-273.8	2,890.9	0.00	0.00	0.00
13,600.0	90.00	359.70	10,054.0	2,984.9	-274.4	2,990.9	0.00	0.00	0.00
13,700.0	90.00	359.70	10,054.0	3,084.9	-274.9	3,090.9	0.00	0.00	0.00
13,800.0	90.00	359.70	10,054.0	3,184.9	-275.4	3,190.9	0.00	0.00	0.00
13,900.0	90.00	359.70	10,054.0	3,284.9	-275.9	3,290.9	0.00	0.00	0.00
14,000.0	90.00	359.70	10,054.0	3,384.9	-276.5	3,390.8	0.00	0.00	0.00
14,100.0	90.00	359.70	10,054.0	3,484.9	-277.0	3,490.8	0.00	0.00	0.00
14,200.0	90.00	359.70	10,054.0	3,584.9	-277.5	3,590.8	0.00	0.00	0.00
14,300.0	90.00	359.70	10,054.0	3,684.9	-278.0	3,690.8	0.00	0.00	0.00
14,400.0	90.00	359.70	10,054.0	3,784.9	-278.6	3,790.8	0.00	0.00	0.00
14,500.0	90.00	359.70	10,054.0	3,884.9	-279.1	3,890.7	0.00	0.00	0.00
14,600.0	90.00	359.70	10,054.0	3,984.9	-279.6	3,990.7	0.00	0.00	0.00
14,700.0	90.00	359.70	10,054.0	4,084.9	-280.1	4,090.7	0.00	0.00	0.00
14,800.0	90.00	359.70	10,054.0	4,184.9	-280.6	4,190.7	0.00	0.00	0.00
14,900.0	90.00	359.70	10,054.0	4,284.9	-281.2	4,290.7	0.00	0.00	0.00
15,000.0	90.00	359.70	10,054.0	4,384.9	-281.7	4,390.6	0.00	0.00	0.00
15,100.0	90.00	359.70	10,054.0	4,484.9	-282.2	4,490.6	0.00	0.00	0.00

Database: Hobbs

Well:

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: FNR Federal Unit #37H

Wellbore: BHL: 100' FNL & 2100' FEL (Sec 5)

Sec 17, T23S, R30E

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site FNR Federal Unit #37H

WELL @ 3244.0usft (Original Well Elev) WELL @ 3244.0usft (Original Well Elev)

Grid

Jesigii.	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)
45 000 0			40.054.0	4.584.9		4.500.0	0.00	0.00	0.00
15,200.0	90.00	359.70	10,054.0	.,	-282.7	4,590.6	0.00	0.00	0.00
15,300.0	90.00	359.70	10,054.0	4,684.9	-283.3	4,690.6	0.00	0.00	0.00
15,400.0	90.00	359.70	10,054.0	4,784.9	-283.8	4,790.6	0.00	0.00	0.00
15,500.0	90.00	359.70	10,054.0	4,884.9	-284.3	4,890.5	0.00	0.00	0.00
15,600.0	90.00	359.70	10,054.0	4,984.9	-284.8	4,990.5	0.00	0.00	0.00
15,700.0	90.00	359.70	10,054.0	5,084.9	-285.4	5,090.5	0.00	0.00	0.00
15,800.0	90.00	359.70	10,054.0	5,184.9	-285.9	5,190.5	0.00	0.00	0.00
			•						
15,900.0	90.00	359.70	10,054.0	5,284.9	-286.4	5,290.5	0.00	0.00	0.00
16,000.0	90.00	359.70	10,054.0	5,384.9	-286.9	5,390.4	0.00	0.00	0.00
16,100.0	90.00	359.70	10,054.0	5,484.9	-287.4	5,490.4	0.00	0.00	0.00
16,200.0	90.00	359.70	10,054.0	5,584.9	-288.0	5,590.4	0.00	0.00	0.00
16,300.0	90.00	359.70	10,054.0	5,684.9	-288.5	5,690.4	0.00	0.00	0.00
16,400.0	90.00	359.70	10,054.0	5,784.9	-289.0	5,790.4	0.00	0.00	0.00
			•						
16,500.0	90.00	359.70	10,054.0	5,884.9	-289.5	5,890.3	0.00	0.00	0.00
16,600.0	90.00	359.70	10,054.0	5,984.9	-290.1	5,990.3	0.00	0.00	0.00
16,700.0	90.00	359.70	10,054.0	6,084.9	-290.6	6,090.3	0.00	0.00	0.00
16,800.0	90.00	359.70	10,054.0	6,184.9	-291.1	6,190.3	0.00	0.00	0.00
16,900.0	90.00	359.70	10,054.0	6,284.9	-291.6	6,290.3	0.00	0.00	0.00
17,000.0	90.00	359.70	10,054.0	6,384.9	-292.2	6,390.2	0.00	0.00	0.00
17,100.0	90.00	359.70	10,054.0	6,484.9	-292.7	6,490.2	0.00	0.00	0.00
17,200.0	90.00	359.70	10,054.0	6,584.9	-293.2	6,590.2	0.00	0.00	0.00
17,300.0	90.00	359.70	10,054.0	6,684.9	-293.7	6,690.2	0.00	0.00	0.00
17,400.0	90.00	359.70	10,054.0	6,784.9	-294.2	6,790.2	0.00	0.00	0.00
17.500.0		050.70	10.051.0	0.004.0	0040	0.000.4			
17,500.0	90.00	359.70	10,054.0	6,884.9	-294.8	6,890.1	0.00	0.00	0.00
17,600.0	90.00	359.70	10,054.0	6,984.9	-295.3	6,990.1	0.00	0.00	0.00
17,700.0	90.00	359.70	10,054.0	7,084.9	-295.8	7,090.1	0.00	0.00	0.00
17,800.0	90.00	359.70	10,054.0	7,184.9	-296.3	7,190.1	0.00	0.00	0.00
17,900.0	90.00	359.70	10,054.0	7,284.9	-296.9	7,290.1	0.00	0.00	0.00
18,000.0	90.00	359.70	10,054.0	7,384.9	-297.4	7,390.0	0.00	0.00	0.00
18,100.0			,	,		,			
	90.00	359.70	10,054.0	7,484.9	-297.9	7,490.0	0.00	0.00	0.00
18,200.0	90.00	359.70	10,054.0	7,584.9	-298.4	7,590.0	0.00	0.00	0.00
18,300.0	90.00	359.70	10,054.0	7,684.9	-299.0	7,690.0	0.00	0.00	0.00
18,400.0	90.00	359.70	10,054.0	7,784.9	-299.5	7,790.0	0.00	0.00	0.00
18.500.0	90.00	359.70	10,054.0	7,884.9	-300.0	7,889.9	0.00	0.00	0.00
18,600.0	90.00	359.70	10,054.0	7,884.9 7,984.9	-300.5	7,889.9	0.00	0.00	0.00
	90.00	359.70 359.70				7,969.9 8,089.9	0.00		0.00
18,700.0			10,054.0	8,084.9	-301.0			0.00	
18,800.0	90.00	359.70	10,054.0	8,184.9	-301.6	8,189.9	0.00	0.00	0.00
18,900.0	90.00	359.70	10,054.0	8,284.9	-302.1	8,289.9	0.00	0.00	0.00
19,000.0	90.00	359.70	10,054.0	8,384.9	-302.6	8,389.8	0.00	0.00	0.00
19,100.0	90.00	359.70	10,054.0	8,484.9	-303.1	8,489.8	0.00	0.00	0.00
19,200.0	90.00	359.70	10,054.0	8,584.9	-303.7	8,589.8	0.00	0.00	0.00
19,300.0	90.00	359.70	10,054.0	8,684.9	-304.2	8,689.8	0.00	0.00	0.00
19,400.0	90.00	359.70 359.70	10,054.0	8,784.9	-304.2 -304.7	8,789.8	0.00	0.00	0.00
19,400.0	90.00	JUB./U	10,054.0	0,704.9	-304.7	0,709.0	0.00	0.00	0.00
19,500.0	90.00	359.70	10,054.0	8,884.9	-305.2	8,889.7	0.00	0.00	0.00
19,600.0	90.00	359.70	10,054.0	8,984.9	-305.8	8,989.7	0.00	0.00	0.00
19,700.0	90.00	359.70	10,054.0	9,084.9	-306.3	9,089.7	0.00	0.00	0.00
19,800.0	90.00	359.70	10,054.0	9,184.9	-306.8	9,189.7	0.00	0.00	0.00
19,900.0	90.00	359.70	10,054.0	9,284.9	-307.3	9,289.7	0.00	0.00	0.00
,									
20,000.0	90.00	359.70	10,054.0	9,384.9	-307.8	9,389.6	0.00	0.00	0.00
20,100.0	90.00	359.70	10,054.0	9,484.9	-308.4	9,489.6	0.00	0.00	0.00
20,200.0	90.00	359.70	10,054.0	9,584.9	-308.9	9,589.6	0.00	0.00	0.00
20,300.0	90.00	359.70	10,054.0	9,684.9	-309.4	9,689.6	0.00	0.00	0.00
20,400.0	90.00	359.70	10,054.0	9,784.9	-309.9	9,789.6	0.00	0.00	0.00
ŕ			•	•					
20,500.0	90.00	359.70	10,054.0	9,884.9	-310.5	9,889.5	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
FNR Federal Unit #37H

Well: Sec 17, T23S, R30E
Wellbore: BHL: 100' FNL & 2100' FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site FNR Federal Unit #37H

WELL @ 3244.0usft (Original Well Elev) WELL @ 3244.0usft (Original Well Elev)

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,600.0	90.00	359.70	10,054.0	9,984.9	-311.0	9,989.5	0.00	0.00	0.00
20,700.0	90.00	359.70	10,054.0	10,084.9	-311.5	10,089.5	0.00	0.00	0.00
20,800.0	90.00	359.70	10,054.0	10,184.8	-312.0	10,189.5	0.00	0.00	0.00
20,900.0	90.00	359.70	10,054.0	10,284.8	-312.6	10,289.5	0.00	0.00	0.00
21,000.0	90.00	359.70	10,054.0	10,384.8	-313.1	10,389.4	0.00	0.00	0.00
21,100.0	90.00	359.70	10,054.0	10,484.8	-313.6	10,489.4	0.00	0.00	0.00
21,200.0	90.00	359.70	10,054.0	10,584.8	-314.1	10,589.4	0.00	0.00	0.00
21,300.0	90.00	359.70	10,054.0	10,684.8	-314.6	10,689.4	0.00	0.00	0.00
21,400.0	90.00	359.70	10,054.0	10,784.8	-315.2	10,789.4	0.00	0.00	0.00
21,500.0	90.00	359.70	10,054.0	10,884.8	-315.7	10,889.3	0.00	0.00	0.00
21,600.0	90.00	359.70	10,054.0	10,984.8	-316.2	10,989.3	0.00	0.00	0.00
21,700.0	90.00	359.70	10,054.0	11,084.8	-316.7	11,089.3	0.00	0.00	0.00
21,800.0	90.00	359.70	10,054.0	11,184.8	-317.3	11,189.3	0.00	0.00	0.00
21,900.0	90.00	359.70	10,054.0	11,284.8	-317.8	11,289.3	0.00	0.00	0.00
22,000.0	90.00	359.70	10,054.0	11,384.8	-318.3	11,389.2	0.00	0.00	0.00
22,100.0	90.00	359.70	10,054.0	11,484.8	-318.8	11,489.2	0.00	0.00	0.00
22,200.0	90.00	359.70	10,054.0	11,584.8	-319.3	11,589.2	0.00	0.00	0.00
22,300.0	90.00	359.70	10,054.0	11,684.8	-319.9	11,689.2	0.00	0.00	0.00
22,400.0	90.00	359.70	10,054.0	11,784.8	-320.4	11,789.2	0.00	0.00	0.00
22,500.0	90.00	359.70	10,054.0	11,884.8	-320.9	11,889.1	0.00	0.00	0.00
22,600.0	90.00	359.70	10,054.0	11,984.8	-321.4	11,989.1	0.00	0.00	0.00
22,700.0	90.00	359.70	10,054.0	12,084.8	-322.0	12,089.1	0.00	0.00	0.00
22,800.0	90.00	359.70	10,054.0	12,184.8	-322.5	12,189.1	0.00	0.00	0.00
22,900.0	90.00	359.70	10,054.0	12,284.8	-323.0	12,289.1	0.00	0.00	0.00
23,000.0	90.00	359.70	10,054.0	12,384.8	-323.5	12,389.0	0.00	0.00	0.00
23,100.0	90.00	359.70	10,054.0	12,484.8	-324.1	12,489.0	0.00	0.00	0.00
23,200.0	90.00	359.70	10,054.0	12,584.8	-324.6	12,589.0	0.00	0.00	0.00
23,300.0	90.00	359.70	10,054.0	12,684.8	-325.1	12,689.0	0.00	0.00	0.00
23,400.0	90.00	359.70	10,054.0	12,784.8	-325.6	12,789.0	0.00	0.00	0.00
23,500.0	90.00	359.70	10,054.0	12,884.8	-326.1	12,888.9	0.00	0.00	0.00
23,567.2	90.00	359.70	10,054.0	12,952.0	-326.5	12,956.1	0.00	0.00	0.00

Hobbs Database:

Company:

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

FNR Federal Unit #37H Site: Well: Sec 17, T23S, R30E

BHL: 100' FNL & 2100' FEL (Sec 5) Wellbore:

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site FNR Federal Unit #37H

WELL @ 3244.0usft (Original Well Elev) WELL @ 3244.0usft (Original Well Elev)

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 2466' FNL & 1849' - plan hits target cente - Point	0.00 er	0.00	0.0	0.0	0.0	475,173.90	674,959.10	32.3055853	-103.9008405
KOP: 2081' FSL & 2100' - plan hits target cente - Point	0,00 er	0,00	9,481.0	-752,2	-254,8	474,421,74	674,704 . 27	32,3035206	-103,9016751
BHL: 100' FNL & 2100' F - plan hits target cente - Point	0.00 er	0.00	10,054.0	12,952.0	-326.5	488,125.90	674,632.60	32.3411912	-103.9017284
PPP2: 0' FSL & 2100' FE - plan hits target cente - Point	0.00 er	0.00	10,054.0	2,462.5	-271.6	477,636.40	674,687.46	32.3123572	-103.9016876
FTP/LP: 2642' FNL & 21 - plan hits target cente - Point	0.00 er	0.00	10,054.0	- 179.0	- 257.8	474,994.90	674,701.27	32,3050961	- 103 <u>.</u> 9016773

Operator Name: Mewbourne Oil Company	Property Name: FNR Federal Unit	Well Number 37H
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Kick Off Point (KOP)

UL J	Section 17	Township 23S	Range 30E	Lot	Feet 2081	From N/S	Feet 2100	From E/W	County Eddy
Latitude 32 3035206		Longitude -103.9016751			NAD Q2				
32.3035206			-103.90	10/01			83		

First Take Point (FTP)

UL G	Section 17	Township 23S	Range 30E	Lot	Feet 2642	From N/S	Feet 2100	From E/W	County Eddy
Latitu 32.	^{de} 30509	961			Longitude -103.90	16773			NAD 83

Last Take Point (LTP)

UL B	Section 5	Township 23S	Range 30E	Lot	Feet 100	From N/S	Feet 2100	From E/W	County Eddy
Latitu 32.	^{de} 34119	912			Longitud	.901728	86		NAD 83

Is this well the defining well for the	he Horizontal Spacing Unit?	Υ
Is this well an infill well?	N	

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

API#		
Operator Name:	Property Name:	Well Number

KZ 06/27/2018

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY

WELL NAME & NO.: FNR FEDERAL UNIT 37H

APD ID: 10400087905

LOCATION: Section 17, T.23 S., R.30 E. NMP

COUNTY: Eddy County, New Mexico

COA

H_2S	0	No	•	Yes
Potash /	O None	Secretary	• R-111-Q	Open Annulus
WIPP	3-String D	esign: Open Production C	Casing Annulus	□ WIPP
Cave / Karst	O Low	O Medium	• High	Critical
Wellhead	Conventional	Multibowl	O Both	O Diverter
Cementing	Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	\square COM	Unit
Waste Prev.	O Self-Certification	O Waste Man. Plan	• APD Submitted	prior 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 procedures and requirements listed within the Order No. R-111-Q.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 380 feet (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 the 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 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 in. intermediate casing shall be set in a competent bed at approximately 3,530 ft. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, and potash.

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

Note: The operator shall follow all applicable requirements in the Order No. R-111-Q. The minimum additives/characteristics of cement slurry as well as centralizer program prescribed for the 1st intermediate casing shall be in accordance with the Order No. R-111-Q.

- 3. Operator has proposed to set 7-inch P-110 production casing at approximately 9,470 ft. (9,416 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 and Potash.
 - 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 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 Intermediate Casing x Production Casing annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

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

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 out surface casing shoe, BOP/ BOPE and annular preventer must 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.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

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 06/29/2024

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 Cente	er of Carlsbad 575-492-5000

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FNR FEDERAL UNIT Well Number: 37H

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency: Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

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

FACILITY

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & Trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Operator Name: MEWBOURNE OIL COMPANY

Well Name: FNR FEDERAL UNIT Well Number: 37H

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

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

FNR_Federal_Unit_37H_WellSiteLayout_20220907072649.pdf

Comments: none

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: FNR Federal Unit 28, 29, 30,31,32,33,34

and 35

Multiple Well Pad Number: 8

Recontouring

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance Well pad interim reclamation (acres): 0 Well pad long term disturbance

(acres): 4.9

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

cres): 0 (acres): 0

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

Total proposed disturbance: 4.9 Total interim reclamation: 0 Total long term disturbance: 4.9

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 416355

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	416355
	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.	1/2/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/2/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/22/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/22/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/22/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/22/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	1/22/2025