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. NMNM094610 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: 1b. Type of Well: Oil Well ✓ Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone LINDALE 24/25 W1CF FED COM 2. Name of Operator 9. API Well No. MEWBOURNE OIL COMPANY 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory JENNINGS/PURPLE SAGE; WOLFCAMF PO Box 5270, Hobbs, NM 88240 (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 13/T26S/R30E/NMP At surface SESW / 305 FSL / 2220 FWL / LAT 32.0361836 / LONG -103.8361524 At proposed prod. zone SENW / 2310 FNL / 1450 FWL / LAT 32.0143619 / LONG -103.8386522 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* **EDDY** NM 25 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 185 feet location to nearest 480.0 property or lease line, ft. 960 (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, 200 feet 11410 feet / 19073 feet FED: NM1693 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3255 feet 12/24/2019 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 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date (Electronic Submission) BRADLEY BISHOP / Ph: (575) 393-5905 10/30/2019 Title Regulatory Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) 12/09/2020 Cody Layton / Ph: (575) 234-5959 Title 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.

Carlsbad Field Office

Conditions of approval, if any, are attached.

Assistant Field Manager Lands & Minerals

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



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 l'hone: (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

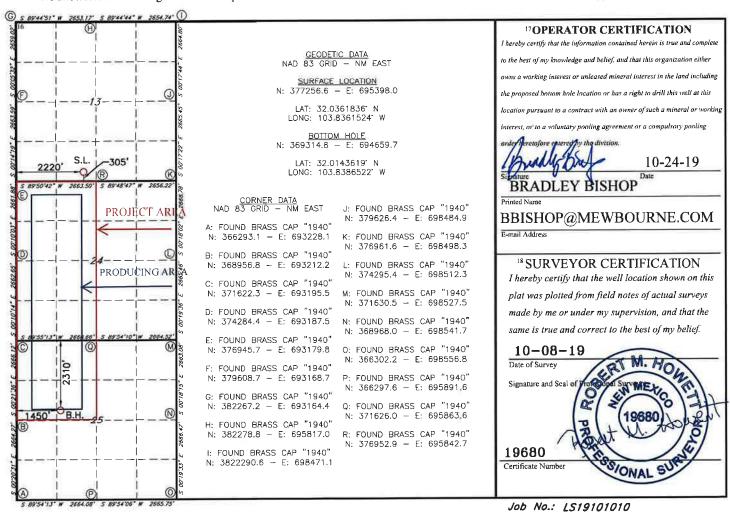
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number			² Pool Code			3 Pool Na					
				98220	FCAMP GA	S POOL						
⁴ Property Co	4Property Code LINDALE 24/25 W1CF FED											
⁷ 0GRID I 1474				MEWE	L COMPANY			⁹ Elevation 3227'				
	¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County			

Surface Boution											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County		
N	13	26S	30E		305	SOUTH	2220	WEST	EDDY		
11 Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
F	25	26S	30E		2310	NORTH	1450	WEST	EDDY		
12 Dedicated Acres	13 Joint	or Infill	4 Consolidation	Code 15	Order No.						
480											

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.



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

CAS	CA	PT	HRE	PΙ	ΛN

Dat	e: 10-24-19		GAS CA	PTURE PL	AN		
\boxtimes	Original Amended - Reason for	Amendment:_	Operator	· & OGRID N	No.: <u>Mewbo</u>	urne Oil Con	npany - 14744
	s Gas Capture Plan ou v completion (new drill				o reduce we	ll/production	n facility flaring/venting for
We	e: Form C-129 must be su II(s)/Production Facility well(s) that will be loan	ity – Name of	<u>facility</u>				4 of 19.15.18.12 NMAC).
THE	Well Name	API		Footages	Expected MCF/D	Flared or Vented	Comments
	Lindale 24/25 W1CF Fed #3H		N 13-T26S-R30E	305' FSL & 2220' FW	- 0	NA	ONLINE AFTER FRAC
Wel	ce. The gas produced	to a production from product	n facility after flotion facility is de	edicated to	Western		gas transporter system is in and will be connected to
3,400 (per	o' of pipeline to oriodically) to _Western	connect the fa	cility to low/high drilling, completio	n pressure ga on and estimat	thering syst ted first prod	em. <u>Mewbo</u> uction date fo	Mexico. It will require ourne Oil Company provides or wells that are scheduled to have periodic
W	ference calls to discus	_ Processing P	lant located in Sec	. <u> </u>	58 T1S ,	Culberson C_0	wells will be processed at ounty, Texas. The actual flow
Afte flare sanc	ed or vented. During fled, the wells will be turn	owback, the flued to product	uids and sand con ion facilities. Gas	tent will be r s sales should	nonitored. V d start as so	When the proc on as the wel	uction tanks and gas will be duced fluids contain minimal lls start flowing through the sed on current information, it

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

is Operator's belief the system can take this gas upon completion of the well(s).

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



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

Drilling Plan Data Report

12/09/2020

APD ID: 10400050013

Submission Date: 10/30/2019

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 3H

Show Final Text

Well Name: LINDALE 24/25 W1CF FED COM

Well Type: CONVENTIONAL GAS WELL Well Work Type: Drill

Section 1 - Geologic Formations

ormation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation	
570425	UNKNOWN	3255	28	28	OTHER : Top Soil	NONE	N	
570426	RUSTLER	2315	940	940	ANHYDRITE, DOLOMITE	USEABLE WATER	N	
570427	TOP SALT	1900	1355	1355	SALT	NONE	N	
570428	BASE OF SALT	-395	3650	3650	SALT	NONE	N	
570429	LAMAR	-560	3815	3815	LIMESTONE	NATURAL GAS, OIL	N	
570430	BELL CANYON	-602	3857	3857	SANDSTONE	NATURAL GAS, OIL	N	
570431	CHERRY CANYON	-1500	4755	4755	SANDSTONE	NATURAL GAS, OIL	N	
570432	MANZANITA	-1680	4935	4935	SANDSTONE	NATURAL GAS, OIL	N	
570434	BONE SPRING	-4455	7710	7710	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y	
570435	BONE SPRING 1ST	-5410	8665	8665	SANDSTONE	NATURAL GAS, OIL	N	
570436	BONE SPRING 2ND	-6080	9335	9335	SANDSTONE	NATURAL GAS, OIL	N	
570437	BONE SPRING 3RD	-7328	10583	10583	SANDSTONE	NATURAL GAS, OIL	N	
570438	WOLFCAMP	-7730	10985	10985	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y	

Section 2 - Blowout Prevention

Well Name: LINDALE 24/25 W1CF FED COM Well Number: 3H

Pressure Rating (PSI): 10M

Rating Depth: 19073

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for 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 (inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

Lindale_24_25_W1CF_Fed_3H_Flex_Line_Specs_20191030134448.pdf
Lindale_24_25_W1CF_Fed_3H_10M_BOPE_Schematic_w_5M_Annular_20200214135911.pdf
Lindale_24_25_W1CF_Fed_3H_Flex_Line_Specs_API_16C_20200214135913.pdf

BOP Diagram Attachment:

Lindale_24_25_W1CF_Fed_Com_2H_10M_BOPE_Schematic_w_5M_Annular_20200214135958.pdf
Lindale_24_25_W1CF_Fed_Com_3H_10M_Annular_BOP_Variance_20200214140000.doc
Lindale_24_25_W1CF_Fed_Com_2H_10M_Multi_Bowl_WH_20200214140003.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	990	0	990	3255	2265	990	H-40	48	ST&C	1.7	3.82	DRY	6.78	DRY	11.3 8
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3750	0	3750		-495	3750	L-80	40	LT&C	1.58	2.95	DRY	4.85	DRY	6.11
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	11500	0	11349		-8094	11500	HCP -110	29	LT&C	1.64	2	DRY	2.39	DRY	2.79
4	LINER	6.12 5	4.5	NEW	API	N	10868	19073	10837	11410	-7582	-8155	8205	P- 110	13.5	LT&C	1.5	1.74	DRY	3.05	DRY	3.81

Casing Attachments

Well Name: LINDALE 24/25 W1CF FED COM Well Number: 3H

Casing	Attacl	hments
--------	--------	--------

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Lindale_24_25_W1CF_Fed_3H_Csg_Assumptions_20200214140545.pdf

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Lindale_24_25_H3DE_Fed_2H_Tapered_String_20180924150644.pdf

Casing Design Assumptions and Worksheet(s):

Lindale_24_25_W1CF_Fed_3H_Csg_Assumptions_20200214140602.pdf

Casing ID: 3

٦

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Lindale_24_25_W1CF_Fed_3H_Csg_Assumptions_20200214140616.pdf

Well Name: LINDALE 24/25 W1CF FED COM Well Number: 3H

Casing Attachments

Casing ID: 4

String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Lindale_24_25_W1CF_Fed_3H_Csg_Assumptions_20200214140627.pdf$

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	799	530	2.12	12.5	1124	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		799	990	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	3059	560	2.12	12.5	1187	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		3059	3750	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	4935	3550	4224	60	2.12	12.5	134	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		4224	4935	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	4935	4935	8991	360	2.12	12.5	763	25	Class H	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		8991	1150 0	400	1.18	15.6	472	25	Class H	Retarder, Fluid loss, Defoamer
LINER	Lead		1086 8	1907 3	330	2.97	11.2	980	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Well Name: LINDALE 24/25 W1CF FED COM Well Number: 3H

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

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	990	SPUD MUD	8.6	8.8		7					
990	3750	SALT SATURATED	10	10	P						
3750	1134 9	WATER-BASED MUD	8.6	9.5							
1134 9	1141 0	OIL-BASED MUD	9.5	13							MW up to 13.0 ppg may be required for shale control. The Highest MW needed to balance formation pressure is expected to be 12.0 ppg.

Well Name: LINDALE 24/25 W1CF FED COM Well Number: 3H

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (10868') to surface.

Will run MWD/GR from KOP (10868') to TD.

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7713

Anticipated Surface Pressure: 5202

Anticipated Bottom Hole Temperature(F): 160

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Lindale_24_25_W1CF_Fed_3H_H2S_Plan_20191030141415.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Lindale_24_25_W1CF_Fed_3H_Dir_plot_20191030141440.pdf Lindale_24_25_W1CF_Fed_3H_Dir_plan_20191030141440.pdf

Other proposed operations facets description:

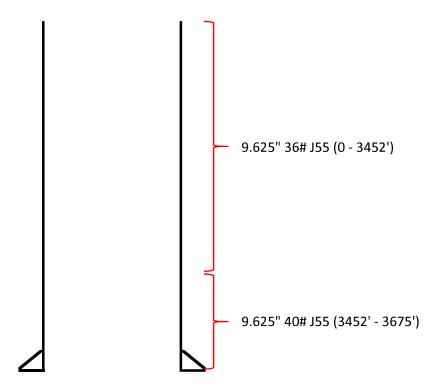
Other proposed operations facets attachment:

Lindale 24 25 W1CF Fed 3H Add Info 20191030141452.pdf

Other Variance attachment:



TAPERED STRING DIAGRAM



			JOINT	
	COLLAPSE	BURST	YIELD	BODY YIELD
36#	1.125	1.960	3.400	4.230
40#	1.620	3.010	81.500	102.690

SL: 305' FSL & 2220' FWL (Sec 13, T26S, R30E) BHL: 2310' FNL & 1450' FWL (Sec 25, T26S, R30E)

Hole	Casing Interval		Csg.	Weight	Weight Grade		SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	990'	13.375"	48	H40	STC	1.70	3.82	6.78	11.38
12.25"	0'	3750'	9.625"	40	L80	LTC	1.58	2.95	4.85	6.11
8.75"	0'	11500'	7"	29	HCP110	LTC	1.64	2.00	2.39	2.79
6.125"	10868'	19073'	4.5"	13.5	P110	LTC	1.50	1.74	3.05	3.81
				BLM Minimum Safety			1.125	1	1.6 Dry	1.6 Dry
				Factor					1.8 Wet	1.8 Wet

	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	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	11
Is well within the designated 4 string boundary.	
is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-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?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is 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?	

SL: 305' FSL & 2220' FWL (Sec 13, T26S, R30E) BHL: 2310' FNL & 1450' FWL (Sec 25, T26S, R30E)

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'	990'	13.375"	48	H40	STC	1.70	3.82	6.78	11.38
12.25"	0'	3750'	9.625"	40	L80	LTC	1.58	2.95	4.85	6.11
8.75"	0'	11500'	7"	29	HCP110	LTC	1.64	2.00	2.39	2.79
6.125"	10868'	19073'	4.5"	13.5	P110	LTC	1.50	1.74	3.05	3.81
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
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justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
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.	IN
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
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Is well located in R-111-P and SOPA?	N
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Is 2 nd string set 100' to 600' below the base of salt?	
In well located in high Cave/Vanet?	Y
Is well located in high Cave/Karst?	
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?	

SL: 305' FSL & 2220' FWL (Sec 13, T26S, R30E) BHL: 2310' FNL & 1450' FWL (Sec 25, T26S, R30E)

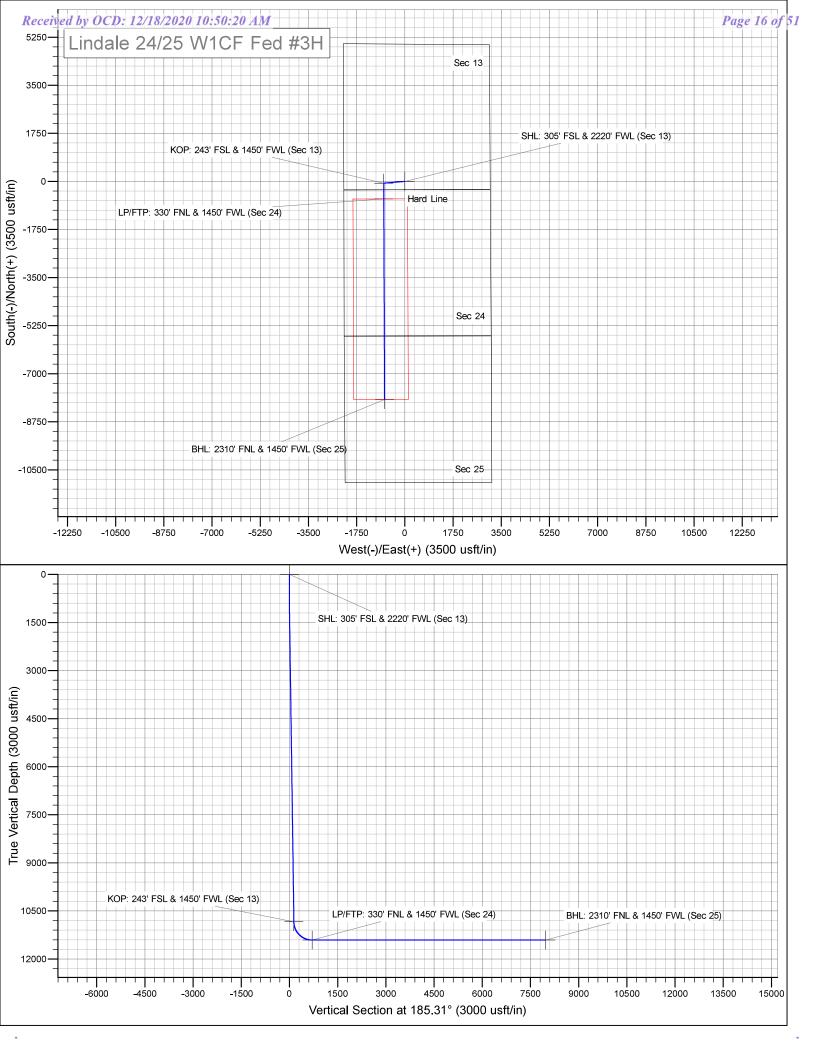
Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	990'	13.375"	48	H40	STC	1.70	3.82	6.78	11.38
12.25"	0'	3750'	9.625"	40	L80	LTC	1.58	2.95	4.85	6.11
8.75"	0'	11500'	7"	29	HCP110	LTC	1.64	2.00	2.39	2.79
6.125"	10868'	19073'	4.5"	13.5	P110	LTC	1.50	1.74	3.05	3.81
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
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SL: 305' FSL & 2220' FWL (Sec 13, T26S, R30E) BHL: 2310' FNL & 1450' FWL (Sec 25, T26S, R30E)

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'	990'	13.375"	48	H40	STC	1.70	3.82	6.78	11.38
12.25"	0'	3750'	9.625"	40	L80	LTC	1.58	2.95	4.85	6.11
8.75"	0'	11500'	7"	29	HCP110	LTC	1.64	2.00	2.39	2.79
6.125"	10868'	19073'	4.5"	13.5	P110	LTC	1.50	1.74	3.05	3.81
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	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	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
Is well located within Capitan Reef?	N
	IN
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?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is 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?	



Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Lindale 24/25 W1CF Fed #3H

Sec 13, T26S, R30E

SHL: 305' FSL & 2220' FWL, Sec 13 BHL: 2310' FNL & 1450' FWL, Sec 25

Plan: Design #1

Standard Planning Report

30 October, 2019

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Lindale 24/25 W1CF Fed #3H

Well: Sec 13, T26S, R30E

Wellbore: BHL: 2310' FNL & 1450' FWL, Sec 25

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Lindale 24/25 W1CF Fed #3H

WELL @ 3255.0usft (Original Well Elev) WELL @ 3255.0usft (Original Well Elev)

Grid

Minimum Curvature

Project Eddy County, New Mexico NAD 83

Map System: Geo Datum:

Map Zone:

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

Ground Level

Site Lindale 24/25 W1CF Fed #3H

 Site Position:
 Northing:
 377,257.00 usft
 Latitude:
 32.0361848

 From:
 Map
 Easting:
 695,398.00 usft
 Longitude:
 -103.8361522

Position Uncertainty:0.0 usftSlot Radius:13-3/16 "Grid Convergence:0.26 °

Well Sec 13, T26S, R30E

 Well Position
 +N/-S
 0.0 usft
 Northing:
 377,257.00 usft
 Latitude:
 32.0361848

 +E/-W
 0.0 usft
 Easting:
 695,398.00 usft
 Longitude:
 -103.8361522

Position Uncertainty0.0 usftWellhead Elevation:3,255.0 usftGround Level:3,227.0 usft

BHL: 2310' FNL & 1450' FWL, Sec 25 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2010 10/30/2019 6.66 59.76 47,617

Design #1 Design Audit Notes: Tie On Depth: Version: Phase: **PROTOTYPE** 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 185.31

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	
990.0	0.00	0.00	990.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,298.3	4.63	265.24	1,298.0	-1.0	-12.4	1.50	1.50	0.00	265.24	
10,559.5	4.63	265.24	10,529.0	-63.0	-756.6	0.00	0.00	0.00	0.00	
10,867.8	0.00	0.00	10,837.0	-64.0	-769.0	1.50	-1.50	0.00	180.00	KOP: 243' FSL & 1450
11,767.9	90.00	179.77	11,410.0	-637.0	-766.7	10.00	10.00	0.00	179.77	
19,073.0	90.00	179.77	11,410.0	-7,942.0	-738.0	0.00	0.00	0.00	0.00	BHL: 2310' FNL & 14t

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Lindale 24/25 W1CF Fed #3H

Well: Sec 13, T26S, R30E

Wellbore: BHL: 2310' FNL & 1450' FWL, Sec 25

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Lindale 24/25 W1CF Fed #3H WELL @ 3255.0usft (Original Well Elev) WELL @ 3255.0usft (Original Well Elev)

Grid

ned Survey									
Measure	ad		Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
(usit)	(°)	(°)	(usft)	(usft)	(usft)	, ,	(7100usit)	(/ loousit)	(/ loousit)
	0.0 0.0		0.0	0.0	0.0	0.0	0.00	0.00	0.00
	05' FSL & 2220' FW								
	0.0		100.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.0		200.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.0		300.0	0.0	0.0	0.0	0.00	0.00	0.00
40	0.0	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
50	0.0	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
60	0.0	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
70	0.0	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
80	0.0	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
90	0.0	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.0		990.0	0.0	0.0	0.0	0.00	0.00	0.00
1,00			1,000.0	0.0	0.0	0.0	1.50	1.50	0.00
1,10			1,100.0	-0.1	-1.6	0.3	1.50	1.50	0.00
1,20			1,199.9	-0.5	-5.8	1.0	1.50	1.50	0.00
1,29	98.3 4.6	3 265.24	1,298.0	-1.0	-12.4	2.2	1.50	1.50	0.00
1,30	0.0 4.6	3 265.24	1,299.7	-1.0	-12.5	2.2	0.00	0.00	0.00
1,40			1,399.3	-1.7	-20.6	3.6	0.00	0.00	0.00
1,50		3 265.24	1,499.0	-2.4	-28.6	5.0	0.00	0.00	0.00
1,60	0.0 4.6	3 265.24	1,598.7	-3.0	-36.6	6.4	0.00	0.00	0.00
1,70		3 265.24	1,698.4	-3.7	-44.7	7.8	0.00	0.00	0.00
					50.7	0.0	0.00	0.00	0.00
1,80			1,798.0	-4.4	-52.7	9.2	0.00	0.00	0.00
1,90			1,897.7	-5.1	-60.7	10.7	0.00	0.00	0.00
2,00			1,997.4	-5.7	-68.8	12.1	0.00	0.00	0.00
2,10			2,097.1	-6.4	-76.8	13.5	0.00	0.00	0.00
2,20	00.0 4.6	3 265.24	2,196.7	-7.1	-84.9	14.9	0.00	0.00	0.00
2,30	0.0 4.6	3 265.24	2,296.4	-7.7	-92.9	16.3	0.00	0.00	0.00
2,40	0.0 4.6	3 265.24	2,396.1	-8.4	-100.9	17.7	0.00	0.00	0.00
2,50	0.0 4.6	3 265.24	2,495.8	-9.1	-109.0	19.1	0.00	0.00	0.00
2,60	0.0 4.6	3 265.24	2,595.4	-9.7	-117.0	20.5	0.00	0.00	0.00
2,70	0.0 4.6	3 265.24	2,695.1	-10.4	-125.0	21.9	0.00	0.00	0.00
2 00	000 46	2 265 24	0.704.9	44.4	122.1	22.2	0.00	0.00	0.00
2,80 2,90			2,794.8 2,894.4	-11.1 -11.7	-133.1 141.1	23.3	0.00 0.00	0.00 0.00	0.00 0.00
				-11.7 -12.4	-141.1 140.1	24.7			
3,00			2,994.1		-149.1 157.2	26.2	0.00	0.00	0.00
3,10			3,093.8	-13.1 13.7	-157.2 165.2	27.6 29.0	0.00	0.00	0.00
3,20	00.0 4.6	J 205.24	3,193.5	-13.7	-165.2	29.0	0.00	0.00	0.00
3,30	0.0 4.6	3 265.24	3,293.1	-14.4	-173.2	30.4	0.00	0.00	0.00
3,40	0.0 4.6	3 265.24	3,392.8	-15.1	-181.3	31.8	0.00	0.00	0.00
3,50			3,492.5	-15.8	-189.3	33.2	0.00	0.00	0.00
3,60		3 265.24	3,592.2	-16.4	-197.4	34.6	0.00	0.00	0.00
3,70	0.0 4.6	3 265.24	3,691.8	-17.1	-205.4	36.0	0.00	0.00	0.00
3,80	00.0 4.6	3 265.24	3,791.5	-17.8	-213.4	37.4	0.00	0.00	0.00
3,90			3,891.2	-17.6 -18.4	-213.4 -221.5	37. 4 38.8	0.00	0.00	0.00
4,00			3,990.9	-10.4 -19.1	-221.5 -229.5	30.0 40.3	0.00	0.00	0.00
4,00			3,990.9 4,090.5	-19.1 -19.8	-229.5 -237.5	40.3 41.7	0.00	0.00	0.00
4,10			4,190.2	-19.6 -20.4	-237.5 -245.6	41.7	0.00	0.00	
4,20	00.0 4.6	J 205.24	4,190.2	-20.4	-245.6	43.1		0.00	0.00
4,30	0.0 4.6		4,289.9	-21.1	-253.6	44.5	0.00	0.00	0.00
4,40	0.0 4.6	3 265.24	4,389.6	-21.8	-261.6	45.9	0.00	0.00	0.00
4,50	0.0 4.6	3 265.24	4,489.2	-22.4	-269.7	47.3	0.00	0.00	0.00
4,60	0.0 4.6	3 265.24	4,588.9	-23.1	-277.7	48.7	0.00	0.00	0.00
4,70	0.0 4.6	3 265.24	4,688.6	-23.8	-285.7	50.1	0.00	0.00	0.00
4,80 4,90			4,788.3	-24.5 25.1	-293.8 201.8	51.5 52.9	0.00	0.00	0.00
4,90		3 265.24 3 265.24	4,887.9 4,987.6	-25.1 -25.8	-301.8 -309.9	52.9 54.3	0.00 0.00	0.00 0.00	0.00 0.00

Hobbs Database:

Company: Mewbourne Oil Company Eddy County, New Mexico NAD 83 Project: Site: Lindale 24/25 W1CF Fed #3H

Well: Sec 13, T26S, R30E

BHL: 2310' FNL & 1450' FWL, Sec 25 Wellbore:

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Lindale 24/25 W1CF Fed #3H WELL @ 3255.0usft (Original Well Elev) WELL @ 3255.0usft (Original Well Elev)

Measured Depth Inclination Azimuth Cyr)	Planned Survey	/									
Depth Inclination Actimuth Cyt C									_		_
5,200.0	Dept	h Ir			Depth			Section	Rate	Rate	Rate
5,900.0 4,83 265.24 5,286.6 -27.8 -334.0 58.8 0.00 0.00 0.00 5,600.0 4,63 265.24 5,486.0 -28.1 -342.0 80.0 0.00 0.	5,1	00.0	4.63	265.24	5,087.3	-26.5	-317.9	55.8	0.00	0.00	0.00
5,400.0	5,2	200.0	4.63	265.24	5,187.0	-27.1	-325.9	57.2	0.00	0.00	0.00
5,400.0	5.3	300.0	4.63	265.24	5.286.6	-27.8	-334.0	58.6	0.00	0.00	0.00
5,600.0					,						
\$ 5,700.0					,						
\$880.0			4.63		5,585.7		-358.1	62.8	0.00	0.00	0.00
5,900.0 4,63 265.24 5,884.7 -31.8 -382.2 67.0 0.00 0.00 0.00 6,000.0 4,63 265.24 6,084.0 -32.5 -390.2 68.8 0.00 0.00 0.00 6,200.0 4,63 265.24 6,183.7 -33.8 -198.2 68.8 0.00 0.00 0.00 6,400.0 4,83 265.24 6,383.1 -35.2 -27.7 0.00 0.00 0.00 6,400.0 4,83 265.24 6,383.1 -35.2 -422.4 74.1 0.00 0.00 0.00 6,500.0 4,83 265.24 6,882.1 -35.8 -430.4 75.5 0.00 0.00 0.00 0.00 6,000.0 4,63 265.24 6,882.1 -37.2 -446.5 78.3 0.00 0.00 0.00 6,000.0 4,63 285.24 6,881.1 -38.2 79.7 0.00 0.00 0.00 0.00 0.00 0.00 0	5,7	700.0	4.63	265.24	5,685.3	-30.5	-366.1	64.2	0.00	0.00	0.00
5,900.0 4,63 265.24 5,884.7 -31.8 -382.2 67.0 0.00 0.00 0.00 6,000.0 4,63 265.24 6,084.0 -32.5 -390.2 68.8 0.00 0.00 0.00 6,200.0 4,63 265.24 6,183.7 -33.8 -198.2 68.8 0.00 0.00 0.00 6,400.0 4,83 265.24 6,383.1 -35.2 -27.7 0.00 0.00 0.00 6,400.0 4,83 265.24 6,383.1 -35.2 -422.4 74.1 0.00 0.00 0.00 6,500.0 4,83 265.24 6,882.1 -35.8 -430.4 75.5 0.00 0.00 0.00 0.00 6,000.0 4,63 265.24 6,882.1 -37.2 -446.5 78.3 0.00 0.00 0.00 6,000.0 4,63 285.24 6,881.1 -38.2 79.7 0.00 0.00 0.00 0.00 0.00 0.00 0	5,8	300.0	4.63	265.24	5,785.0	-31.1	-374.1	65.6	0.00	0.00	0.00
6,100.0											
6.200.0	6,0	0.00	4.63	265.24	5,984.4	-32.5	-390.2	68.4		0.00	0.00
6,300.0			4.63		6,084.0			69.8	0.00		0.00
6400.0 4.63 265.24 6.383.1 -35.2 -422.4 7.41 0.00 0.00 0.00 6.600.0 4.63 265.24 6.582.4 -36.5 -438.4 76.9 0.00 0.00 0.00 0.00 6.600.0 4.63 265.24 6.582.4 -36.5 -438.4 76.9 0.00 0.00 0.00 0.00 6.600.0 4.63 265.24 6.761.7 -37.8 -454.5 78.3 0.00 0.00 0.00 0.00 6.600.0 4.63 265.24 6.861.1 -37.2 -446.5 79.7 0.00 0.00 0.00 0.00 7.000 4.63 265.24 6.861.4 -38.5 -462.5 81.1 0.00 0.00 0.00 0.00 7.000 4.63 265.24 6.861.1 -39.2 470.6 82.5 0.00 0.00 0.00 0.00 7.100.0 4.63 265.24 7.080.8 -39.8 478.6 83.9 0.00 0.00 0.00 0.00 7.200.0 4.63 265.24 7.801.4 -40.5 -486.6 85.4 0.00 0.00 0.00 0.00 7.300.0 4.63 265.24 7.780.4 -40.5 -486.6 85.4 0.00 0.00 0.00 0.00 7.300.0 4.63 265.24 7.780.4 -40.5 -486.6 85.4 0.00 0.00 0.00 0.00 7.300.0 4.63 265.24 7.780.4 -40.5 -486.6 85.4 0.00 0.00 0.00 0.00 7.300.0 4.63 265.24 7.781.5 -42.5 -510.7 88.2 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.781.5 -42.5 -510.7 88.6 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.781.5 -42.5 -510.7 88.6 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.781.5 -43.2 -518.8 91.0 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.781.5 -43.2 -518.8 91.0 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.781.5 -43.2 -518.8 91.0 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.781.5 -44.5 -54.9 95.2 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.787.8 -44.5 -54.9 95.8 92.4 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.787.8 -44.5 -54.2 96.2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	6,2	200.0	4.63	265.24	6,183.7	-33.8	-406.3	71.3	0.00	0.00	0.00
6.500.0 4.63 265.24 6.482.7 -35.8 -430.4 75.5 0.00 0.00 0.00 6.600.0 4.63 265.24 6.362.4 -36.5 -43.8 4 76.9 0.00 0.00 0.00 0.00 6.700.0 4.63 265.24 6.362.1 -37.2 -446.5 78.3 0.00 0.00 0.00 0.00 6.800.0 4.63 265.24 6.362.1 -37.2 -446.5 78.3 0.00 0.00 0.00 0.00 7.000.0 4.63 265.24 6.362.1 -37.2 -446.5 79.7 0.00 0.00 0.00 0.00 7.000.0 4.63 265.24 6.881.4 -38.5 -462.5 81.1 0.00 0.00 0.00 0.00 7.000.0 4.63 265.24 6.881.4 -38.5 -462.5 81.1 0.00 0.00 0.00 0.00 7.000.0 4.63 265.24 7.800.8 -39.6 478.6 83.9 0.00 0.00 0.00 0.00 7.200.0 4.63 265.24 7.780.8 -40.5 486.6 85.4 0.00 0.00 0.00 0.00 7.200.0 4.63 265.24 7.780.4 -40.5 486.6 85.4 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.780.8 -41.8 -502.7 88.2 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.780.8 -41.8 -502.7 88.2 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.780.8 -41.8 -502.7 88.2 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.7878.8 -43.8 -502.7 88.2 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.7878.8 -43.8 -502.7 88.2 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.7878.8 -43.8 -526.8 91.0 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.7878.8 -43.8 -526.8 91.0 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.7878.2 -45.2 -510.7 89.6 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.7878.2 -45.2 -510.7 89.6 0.00 0.00 0.00 0.00 7.700.0 4.63 265.24 7.7878.2 -45.2 -510.7 89.6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	6,3	300.0	4.63	265.24	6,283.4	-34.5	-414.3	72.7	0.00	0.00	0.00
6,600.0 4,63 265.24 6,582.4 -36.5 -438.4 76.9 0.00 0.00 0.00 6,700.0 4,83 265.24 6,882.1 -37.2 -446.5 78.3 0.00 0.00 0.00 0.00 0.00 6,800.0 4.63 265.24 6,881.1 -38.5 -462.5 81.1 0.00 0.00 0.00 0.00 7,000.0 4.63 265.24 6,881.1 -38.5 -462.5 81.1 0.00 0.00 0.00 0.00 7,100.0 4.63 265.24 6,881.1 -39.2 470.6 82.5 0.00 0.00 0.00 0.00 7,200.0 4.63 265.24 7,880.8 -39.8 478.6 83.9 0.00 0.00 0.00 0.00 7,200.0 4.63 265.24 7,880.1 4-41.2 494.7 86.8 0.00 0.00 0.00 0.00 7,200.0 4.63 265.24 7,780.4 4-0.5 486.6 85.4 0.00 0.00 0.00 0.00 7,400.0 4.63 265.24 7,780.4 4-0.5 486.6 85.4 0.00 0.00 0.00 0.00 7,400.0 4.63 265.24 7,785.5 4-25 -510.7 88.2 0.00 0.00 0.00 0.00 7,500.0 4.63 265.24 7,787.8 4-3.8 502.7 88.2 0.00 0.00 0.00 0.00 7,700.0 4.63 265.24 7,787.8 4-3.5 510.7 89.6 0.00 0.00 0.00 0.00 7,700.0 4.63 265.24 7,787.8 4-3.8 526.8 91.0 0.00 0.00 0.00 0.00 7,700.0 4.63 265.24 7,787.8 4-3.8 526.8 91.0 0.00 0.00 0.00 0.00 7,700.0 4.63 265.24 7,787.8 4-3.8 526.8 91.0 0.00 0.00 0.00 0.00 7,700.0 4.63 265.24 7,787.8 4-3.8 526.8 92.4 0.00 0.00 0.00 0.00 0.00 7,700.0 4.63 265.24 7,787.8 4-3.8 526.8 92.4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0											
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7,400.0 4,63 265.24 7,379.8 -41.8 -502.7 88.2 0.00 0.00 0.00 7,500.0 4,63 265.24 7,479.5 -42.5 -510.7 89.6 0.00 0.00 0.00 7,600.0 4,63 265.24 7,678.8 -43.8 -526.8 92.4 0.00 0.00 0.00 7,800.0 4,63 265.24 7,778.5 -44.5 -534.9 93.8 0.00 0.00 0.00 7,900.0 4,63 265.24 7,878.5 -44.5 -534.9 93.8 0.00 0.00 0.00 8,000.0 4,63 265.24 8,077.8 -45.9 -550.9 96.6 0.00 0.00 0.00 8,100.0 4,63 265.24 8,177.2 -47.2 -567.0 99.4 0.00 0.00 0.00 8,200.0 4,63 265.24 8,276.9 -47.9 -575.0 100.9 0.00 0.00 0.00 8,200.0 <	7,2	200.0	4.63	265.24	7,180.4	-40.5	-486.6	85.4	0.00	0.00	0.00
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Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Lindale 24/25 W1CF Fed #3H

Well: Sec 13, T26S, R30E
Wellbore: BHL: 2310' FNL & 1450' FWL, Sec 25

Wellbore: BHL: 2310
Design: Design #1

Local Co-ordinate Reference: TVD Reference:

MD Reference:
North Reference:

Survey Calculation Method:

Site Lindale 24/25 W1CF Fed #3H WELL @ 3255.0usft (Original Well Elev) WELL @ 3255.0usft (Original Well Elev)

Grid

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Measured			Mantiaal			Mantiagl	Danlan	D.:lla	T
меаsured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	4.63	265.24	10,469.7	-62.6	-751.8	131.9	0.00	0.00	0.00
10,559.5	4.63	265.24	10,529.0	-63.0	-756.6	132.7	0.00	0.00	0.00
10,600.0	4.02	265.24	10,569.4	-63.2	-759.6	133.2	1.50	-1.50	0.00
10,700.0	2.52	265.24	10,669.2	-63.7	-765.3	134.2	1.50	-1.50	0.00
10,800.0	1.02	265.24	10,769.2	-64.0	-768.4	134.8	1.50	-1.50	0.00
10,867.8	0.00	0.00	10,837.0	-64.0	-769.0	134.9	1.50	-1.50	0.00
10.900.0	SL & 1450' FWL 3.22	(Sec 13) 179.77	10,869.2	-64.9	-769.0	135.8	10.00	10.00	0.00
11,000.0	13.22	179.77	10,968.0	-79.2	-768.9	150.0	10.00	10.00	0.00
11,100.0	23.22	179.77	11,062.9	-110.4	-768.8	181.1	10.00	10.00	0.00
11,200.0	33.21	179.77	11,150.9	-157.6	-768.6	228.1	10.00	10.00	0.00
11,300.0	43.21	179.77	11,229.3	-219.4	-768.4	289.6	10.00	10.00	0.00
11,400.0	53.21	179.77	11,295.9	-293.9	-768.1	363.7	10.00	10.00	0.00
11,500.0	63.21	179.77	11,348.5	-378.8	-767.8	448.2	10.00	10.00	0.00
11,600.0	73.21	179.77	11,385.6	-471.5	-767.4	540.5	10.00	10.00	0.00
11,700.0	83.21	179.77	11,406.0	-569.3	-767.0	637.8	10.00	10.00	0.00
11,767.9	90.00	179.77	11,410.0	-637.0	-766.7	705.2	10.00	10.00	0.00
)' FNL & 1450' FV 90.00	VL (Sec 24) 179.77	11 110 0	-669.1	766.6	727.0	0.00	0.00	0.00
11,800.0 11,900.0	90.00	179.77	11,410.0 11,410.0	-669.1 -769.1	-766.6 -766.2	737.2 836.7	0.00	0.00	0.00
12,000.0 12,100.0	90.00 90.00	179.77 179.77	11,410.0 11,410.0	-869.1 -969.1	-765.8 -765.4	936.2 1,035.8	0.00 0.00	0.00 0.00	0.00 0.00
12,100.0	90.00	179.77	11,410.0	-1,069.1	-765.4 -765.0	1,135.3	0.00	0.00	0.00
12,300.0	90.00	179.77	11,410.0	-1,169.1	-764.7	1,234.8	0.00	0.00	0.00
12,400.0	90.00	179.77	11,410.0	-1,269.1	-764.3	1,334.4	0.00	0.00	0.00
12,500.0	90.00	179.77	11,410.0	-1,369.1	-763.9	1,433.9	0.00	0.00	0.00
12,600.0	90.00	179.77	11,410.0	-1,469.1	-763.5	1,533.4	0.00	0.00	0.00
12,700.0	90.00	179.77	11,410.0	-1,569.1	-763.1	1,633.0	0.00	0.00	0.00
12,800.0	90.00	179.77	11,410.0	-1,669.1	-762.7	1,732.5	0.00	0.00	0.00
12,900.0	90.00	179.77	11,410.0	-1,769.1	-762.3	1,832.0	0.00	0.00	0.00
13,000.0	90.00	179.77	11,410.0	-1,869.1	-761.9	1,931.6	0.00	0.00	0.00
13,100.0	90.00	179.77	11,410.0	-1,969.1	-761.5	2,031.1	0.00	0.00	0.00
13,200.0	90.00	179.77	11,410.0	-2,069.1	-761.1	2,130.6 2,230.2	0.00	0.00	0.00
13,300.0 13,400.0	90.00 90.00	179.77 179.77	11,410.0 11,410.0	-2,169.1 -2,269.1	-760.7 -760.3	2,230.2 2,329.7	0.00 0.00	0.00 0.00	0.00 0.00
13,500.0 13,600.0	90.00 90.00	179.77 179.77	11,410.0 11,410.0	-2,369.1 -2,469.1	-759.9 -759.5	2,429.2 2,528.8	0.00 0.00	0.00 0.00	0.00 0.00
13,700.0	90.00	179.77	11,410.0	-2,469.1 -2,569.1	-759.5 -759.1	2,528.8	0.00	0.00	0.00
13,800.0	90.00	179.77	11,410.0	-2,669.1	-758.7	2,727.8	0.00	0.00	0.00
13,900.0	90.00	179.77	11,410.0	-2,769.1	-758.4	2,827.4	0.00	0.00	0.00
14,000.0	90.00	179.77	11,410.0	-2,869.1	-758.0	2,926.9	0.00	0.00	0.00
14,100.0	90.00	179.77	11,410.0	-2,969.1	-757.6	3,026.4	0.00	0.00	0.00
14,200.0	90.00	179.77	11,410.0	-3,069.1	-757.2	3,126.0	0.00	0.00	0.00
14,300.0	90.00	179.77	11,410.0	-3,169.1	-756.8	3,225.5	0.00	0.00	0.00
14,400.0	90.00	179.77	11,410.0	-3,269.1	-756.4	3,325.0	0.00	0.00	0.00
14,500.0	90.00	179.77	11,410.0	-3,369.1	-756.0	3,424.6	0.00	0.00	0.00
14,600.0	90.00	179.77	11,410.0	-3,469.1	-755.6	3,524.1	0.00	0.00	0.00
14,700.0	90.00	179.77	11,410.0	-3,569.1	-755.2	3,623.6	0.00	0.00	0.00
14,800.0 14,900.0	90.00 90.00	179.77 179.77	11,410.0 11,410.0	-3,669.1 -3,769.1	-754.8 -754.4	3,723.2 3,822.7	0.00 0.00	0.00 0.00	0.00 0.00
15,000.0	90.00	179.77	11,410.0	-3,869.1	-754.0	3,922.2	0.00	0.00	0.00
15,100.0 15,200.0	90.00 90.00	179.77 179.77	11,410.0 11,410.0	-3,969.1 -4,069.1	-753.6 -753.2	4,021.8 4,121.3	0.00 0.00	0.00 0.00	0.00 0.00
15,300.0	90.00	179.77	11,410.0	-4,169.1	-752.8	4,121.3	0.00	0.00	0.00

Hobbs Database: Company:

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Lindale 24/25 W1CF Fed #3H

Well: Sec 13, T26S, R30E

Wellbore:

Project:

Site:

BHL: 2310' FNL & 1450' FWL, Sec 25

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Lindale 24/25 W1CF Fed #3H

WELL @ 3255.0usft (Original Well Elev) WELL @ 3255.0usft (Original Well Elev)

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,400.0	90.00	179.77	11,410.0	-4,269.1	-752.5	4,320.4	0.00	0.00	0.00
15,500.0	90.00	179.77	11,410.0	-4,369.1	-752.1	4.419.9	0.00	0.00	0.00
15,600.0	90.00	179.77	11,410.0	-4,469.1	-751.7	4,519.4	0.00	0.00	0.00
15,700.0	90.00	179.77	11,410.0	-4,569.1	-751.3	4,619.0	0.00	0.00	0.00
15,800.0	90.00	179.77	11,410.0	-4,669.1	-750.9	4,718.5	0.00	0.00	0.00
15,900.0	90.00	179.77	11,410.0	-4,769.1	-750.5	4,818.1	0.00	0.00	0.00
16,000.0	90.00	179.77	11,410.0	-4,869.1	-750.1	4,917.6	0.00	0.00	0.00
16,100.0	90.00	179.77	11,410.0	-4,969.1	-749.7	5,017.1	0.00	0.00	0.00
16,200.0	90.00	179.77	11,410.0	-5,069.1	-749.3	5,116.7	0.00	0.00	0.00
16,300.0	90.00	179.77	11,410.0	-5,169.1	-748.9	5,216.2	0.00	0.00	0.00
16,400.0	90.00	179.77	11,410.0	-5,269.1	-748.5	5,315.7	0.00	0.00	0.00
16,500.0	90.00	179.77	11,410.0	-5,369.1	-748.1	5,415.3	0.00	0.00	0.00
16,600.0	90.00	179.77	11,410.0	-5,469.1	-747.7	5,514.8	0.00	0.00	0.00
16,700.0	90.00	179.77	11,410.0	-5,569.1	-747.3	5,614.3	0.00	0.00	0.00
16,800.0	90.00	179.77	11,410.0	-5,669.1	-746.9	5,713.9	0.00	0.00	0.00
16,900.0	90.00	179.77	11,410.0	-5,769.1	-746.6	5,813.4	0.00	0.00	0.00
17,000.0	90.00	179.77	11,410.0	-5,869.1	-746.2	5,912.9	0.00	0.00	0.00
17,100.0	90.00	179.77	11,410.0	-5,969.1	-745.8	6,012.5	0.00	0.00	0.00
17,200.0	90.00	179.77	11,410.0	-6,069.1	-745.4	6,112.0	0.00	0.00	0.00
17,300.0	90.00	179.77	11,410.0	-6,169.1	-745.0	6,211.5	0.00	0.00	0.00
17,400.0	90.00	179.77	11,410.0	-6,269.1	-744.6	6,311.1	0.00	0.00	0.00
17,500.0	90.00	179.77	11,410.0	-6,369.1	-744.2	6,410.6	0.00	0.00	0.00
17,600.0	90.00	179.77	11,410.0	-6,469.1	-743.8	6,510.1	0.00	0.00	0.00
17,700.0	90.00	179.77	11,410.0	-6,569.1	-743.4	6,609.7	0.00	0.00	0.00
17,800.0	90.00	179.77	11,410.0	-6,669.1	-743.0	6,709.2	0.00	0.00	0.00
17,900.0	90.00	179.77	11,410.0	-6,769.1	-742.6	6,808.7	0.00	0.00	0.00
18,000.0	90.00	179.77	11,410.0	-6,869.1	-742.2	6,908.3	0.00	0.00	0.00
18,100.0	90.00	179.77	11,410.0	-6,969.1	-741.8	7,007.8	0.00	0.00	0.00
18,200.0	90.00	179.77	11,410.0	-7,069.1	-741.4	7,107.3	0.00	0.00	0.00
18,300.0	90.00	179.77	11,410.0	-7,169.1	-741.0	7,206.9	0.00	0.00	0.00
18,400.0	90.00	179.77	11,410.0	-7,269.1	-740.6	7,306.4	0.00	0.00	0.00
18,500.0	90.00	179.77	11,410.0	-7,369.0	-740.3	7,405.9	0.00	0.00	0.00
18,600.0	90.00	179.77	11,410.0	-7,469.0	-739.9	7,505.5	0.00	0.00	0.00
18,700.0	90.00	179.77	11,410.0	-7,569.0	-739.5	7,605.0	0.00	0.00	0.00
18,800.0	90.00	179.77	11,410.0	-7,669.0	-739.1	7,704.5	0.00	0.00	0.00
18,900.0	90.00	179.77	11,410.0	-7,769.0	-738.7	7,804.1	0.00	0.00	0.00
19,000.0	90.00	179.77	11,410.0	-7,869.0	-738.3	7,903.6	0.00	0.00	0.00
19,073.0	90.00	179.77	11,410.0	-7,942.0	-738.0	7,976.2	0.00	0.00	0.00

Database: Hobbs

Mewbourne Oil Company Company:

Eddy County, New Mexico NAD 83 Project: Site: Lindale 24/25 W1CF Fed #3H

Well: Sec 13, T26S, R30E BHL: 2310' FNL & 1450' FWL, Sec 25

Design: Design #1

Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Lindale 24/25 W1CF Fed #3H

WELL @ 3255.0usft (Original Well Elev) WELL @ 3255.0usft (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: 305' FSL & 2220' F - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	377,257.00	695,398.00	32.0361848	-103.8361522
KOP: 243' FSL & 1450' F - plan hits target cent - Point	0.00 er	0.00	10,837.0	-64.0	-769.0	377,193.00	694,629.00	32.0360186	-103.8386348
LP/FTP: 330' FNL & 145 - plan hits target cent - Point	0.00 er	0.00	11,410.0	-637.0	-766.7	376,620.00	694,631.30	32.0344434	-103.8386358
BHL: 2310' FNL & 1450' - plan hits target cent - Point	0.00 er	0.00	11,410.0	-7,942.0	-738.0	369,315.00	694,660.00	32.0143624	-103.8386512

Inten	t X	As Dril	led											
API#														
Operator Name: Mewbourne Oil Co.						Property Name: Lindale 24/25 W1CF Fed						Well Number 3H		
Kick C	Off Point	(KOP)												
UL N	Section 13	Township 26S	Range 30E	Lot	Feet 243	From S		N/S Feet 1450			From E/W		County Eddy	
Latitude				Longitu	Longitude NAD -103.8386348 83						NAD			
First 7	Гаke Poir	nt (FTP)												
UL C	Section 24	Township 26S	Range 30E	Lot	Feet 330		From N	I/S	Feet 145		Fron W	n E/W	County Eddy	
Latitu 32.0	ode 34443	34			_	Longitude NAD -103.8386358 83								
Last T	ake Poin	t (LTP)												
UL F	Section 25	Township 26S	Range 30E	Lot	Feet 2310	From N/S Feet From E/W County N 1450 W Eddy								
					ongitude NAD NAD 83									
Is this well the defining well for the Horizontal Spacing Unit?														
Is this well an infill well?														
	ll is yes p ng Unit.	lease prov	ide API if a	availak	ole, Opei	rator	Name a	and v	vell n	umbe	r for I	Definir	ng well fo	r Horizontal
API#														
Operator Name:				Property Name:				Well Number						

KZ 06/29/2018

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Mewbourne Oil Company

LEASE NO.: | NMNM094610

WELL NAME & NO.: | LINDALE 24/25 W1CF FED COM #3H

SURFACE HOLE FOOTAGE: 305'/S & 2220'/W **BOTTOM HOLE FOOTAGE** 2310'/N & 1450'/W

LOCATION: | Section 13, T.26 S., R.30 E., NMP

COUNTY: Eddy County, New Mexico

COA

H2S	© Yes	• No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	C Low	Medium	○ High
Cave/Karst Potential	© Critical		
Variance	© None	Flex Hose	Other Other
Wellhead	© Conventional	• Multibowl	© Both
Other	4 String Area	Capitan Reef	□WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 990 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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

Page 1 of 8

Approval Date: 12/09/2020

- 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 inch intermediate casing shall be set at approximately 3750 feet. 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 or potash.
 Excess cement calculates to 18%, additional cement might be required.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 7 inch production casing is:

Option 1 (Single Stage):

Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Excess cement calculates to -30%, additional cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- b. 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.
- c. Second stage above DV tool:

Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Excess cement calculates to -66%, additional cement might be required.

- 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.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - 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 OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 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 dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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.

Page 5 of 8

WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity 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-P 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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:

Page 6 of 8

- 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. 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.
 - a. 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 when specified), 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).
 - b. 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 Onshore Order No. 2.

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.

OTA03192020

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:

- 1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

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

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

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

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

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

4. Visual Warning Systems

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

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

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

Well Name: LINDALE 24/25 W1CF FED COM Well Number: 3H

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

FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

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 containment 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: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940

barrels

Waste disposal frequency : One Time Only

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

Safe containment attachment:

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

FACILITY

Disposal type description:

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

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

Reserve Pit

Reserve Pit being used? N

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

Well Name: LINDALE 24/25 W1CF FED COM Well Number: 3H

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

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

LINDALE24_25W1CFFED3H_wellsitelayout_20191024102754.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: LINDALE 24/25 CF WELLS

Multiple Well Pad Number: 3

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None



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

Drilling Plan Data Report

12/09/2020

APD ID: 10400050013

Submission Date: 10/30/2019

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 3H

Well Name: LINDALE 24/25 W1CF FED COM

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

ormation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
570425	UNKNOWN	3255	28	28	OTHER : Top Soil	NONE	N
570426	RUSTLER	2315	940	940	ANHYDRITE, DOLOMITE	USEABLE WATER	N
570427	TOP SALT	1900	1355	1355	SALT	NONE	N
570428	BASE OF SALT	-395	3650	3650	SALT	NONE	N
570429	LAMAR	-560	3815	3815	LIMESTONE	NATURAL GAS, OIL	N
570430	BELL CANYON	-602	3857	3857	SANDSTONE	NATURAL GAS, OIL	N
570431	CHERRY CANYON	-1500	4755	4755	SANDSTONE	NATURAL GAS, OIL	N
570432	MANZANITA	-1680	4935	4935	SANDSTONE	NATURAL GAS, OIL	N
570434	BONE SPRING	-4455	7710	7710	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
570435	BONE SPRING 1ST	-5410	8665	8665	SANDSTONE	NATURAL GAS, OIL	N
570436	BONE SPRING 2ND	-6080	9335	9335	SANDSTONE	NATURAL GAS, OIL	N
570437	BONE SPRING 3RD	-7328	10583	10583	SANDSTONE	NATURAL GAS, OIL	N
570438	WOLFCAMP	-7730	10985	10985	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY

Well Name: LINDALE 24/25 W1CF FED COM Well Number: 3H

Pressure Rating (PSI): 10M

Rating Depth: 19073

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for 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 (inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

Lindale_24_25_W1CF_Fed_3H_Flex_Line_Specs_20191030134448.pdf
Lindale_24_25_W1CF_Fed_3H_10M_BOPE_Schematic_w_5M_Annular_20200214135911.pdf
Lindale_24_25_W1CF_Fed_3H_Flex_Line_Specs_API_16C_20200214135913.pdf

BOP Diagram Attachment:

Lindale_24_25_W1CF_Fed_Com_2H_10M_BOPE_Schematic_w_5M_Annular_20200214135958.pdf
Lindale_24_25_W1CF_Fed_Com_3H_10M_Annular_BOP_Variance_20200214140000.doc
Lindale_24_25_W1CF_Fed_Com_2H_10M_Multi_Bowl_WH_20200214140003.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	990	0	990	3255	2265	990	H-40	48	ST&C	1.7	3.82	DRY	6.78	DRY	11.3 8
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3750	0	3750		-495	3750	L-80	40	LT&C	1.58	2.95	DRY	4.85	DRY	6.11
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	11500	0	11349		-8094	11500	HCP -110	29	LT&C	1.64	2	DRY	2.39	DRY	2.79
4	LINER	6.12 5	4.5	NEW	API	N	10868	19073	10837	11410	-7582	-8155	8205	P- 110	13.5	LT&C	1.5	1.74	DRY	3.05	DRY	3.81

Casing Attachments



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

www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:

AUSTIN DISTRIBUTING

Test Date: Hose Serial No.:

4/30/2015 D-043015-7

Customer Ref.: Invoice No.:

4060578 500506

Created By:

JUSTIN CROPPER

Product Description:

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

End Fitting 1:

4 1/16 10K FLG 4773-6290 Gates Part No.:

End Fitting 2:

4 1/16 10K FLG

Working Pressure:

10,000 PSI

Assembly Code: Test Pressure:

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:

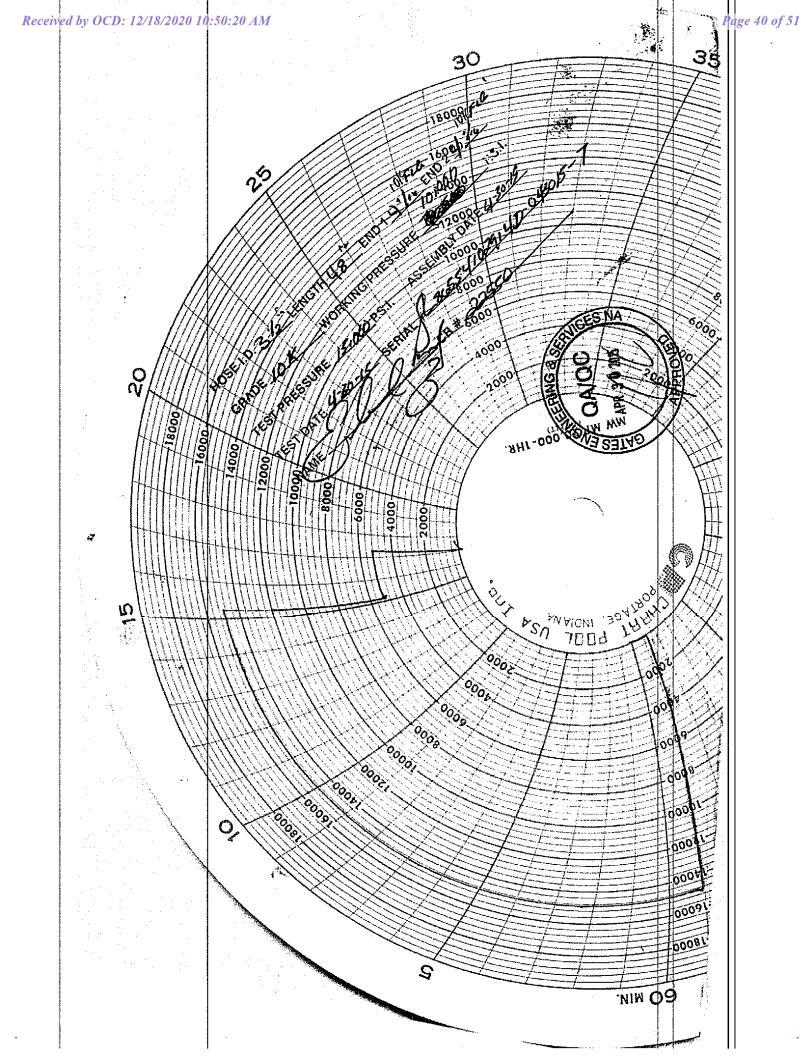
Signature :

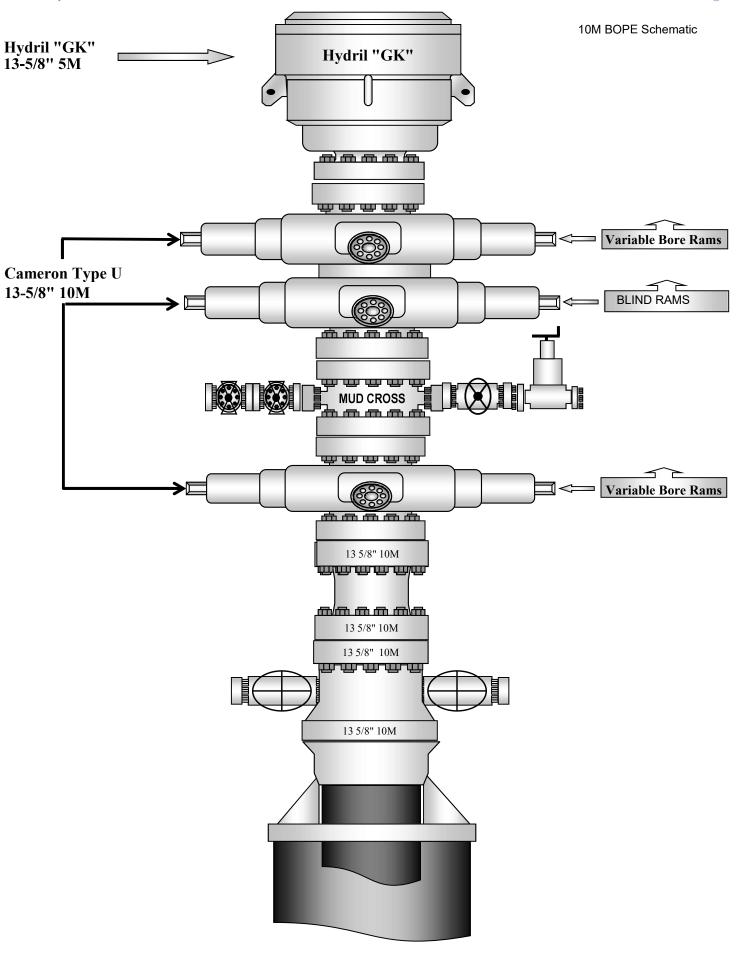
PRODUCTION

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

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

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:

QUALITY

8/20/2018

Signature:

Production:

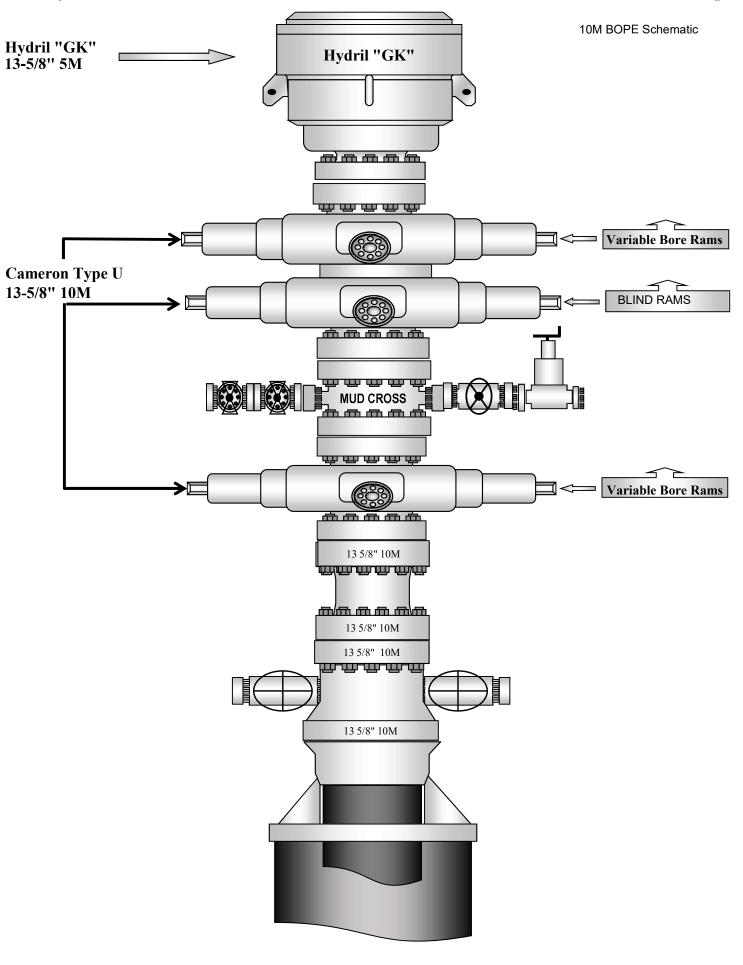
Date:

Signature:

8/20/2018

Form PTC - 01 Rev.0 2





10,000 PSI Annular BOP Variance Request

Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

	12-1	/4" Intermediate Hole 10M psi Requiremer			
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-	Annular	5M	-	-
	8.000"				
Mud Motor	8.000"-	Annular	5M	-	-
	9.625"				
Intermediate Casing	9.625"	Annular	5M	- 1	-
Open-Hole	-	Blind Rams	10M	- 1	-

	8-	3/4" Production Hole S 10M psi Requireme			
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"- 8.000"	Annular	5M	-	-
Mud Motor	6.750"- 8.000"	Annular	5M	-	-
Production Casing	7"	Annular	5M	-	-

Open-Hole	_	Blind Rams	10M	-	_
C POIT I TOTO		Dillia Raillo	1 011		

		6-1/8" Lateral Hole Sec 10M psi Requiremen			
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M
				Lower 3.5"-5.5" VBR	10M
HWDP	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M
				Lower 3.5"-5.5" VBR	10M
DCs and MWD tools	4.750"-	Annular	5M	Upper 3.5"-5.5" VBR	10M
	5.500"			Lower 3.5"-5.5" VBR	10M
Mud Motor	4.750"-	Annular	5M	Upper 3.5"-5.5" VBR	10M
	5.500"			Lower 3.5"-5.5" VBR	10M
Production Casing	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M
				Upper 3.5"-5.5" VBR	10M
Open-Hole	-	Blind Rams	10M	1	-

VBR = Variable Bore Ram

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the Mewbourne Oil Company drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)

- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full-opening safety valve & close
- 3. Space out drill string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)

- 2. Stab crossover and full-opening safety valve and close
- 3. Space out string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams (HCR & choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

- 1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain

- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

COMMENTS

Action 12538

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM88241	14744	12538	FORM 3160-3

Created By	Comment	Comment Date
kpickford	KP GEO Review 12/18/2020	12/18/2020

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CONDITIONS

Action 12538

CONDITIONS OF APPROVAL

Ope	erator:			OGRID:	Action Number:	Action Type:
	MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM88241	14744	12538	FORM 3160-3

OCD	Condition
Reviewer	
kpickford	Will require a directional survey with the C-104
kpickford	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
kpickford	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.