OCD Received 11/6/2020

Form 3160-3 (June 2015) UNITED STA					FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM094610 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. LINDALE 24/25 W1CF FED COM			
DEPARTMENT OF TH BUREAU OF LAND MA			,					
APPLICATION FOR PERMIT TO								
1a. Type of work: ✓ DRILL □ 1b. Type of Well: □ Oil Well ✓ Gas Well □ 1c. Type of Completion: □ Hydraulic Fracturing □	REENTE Other Single Zo	_	Multiple Zone					
2. Name of Operator MEWBOURNE OIL COMPANY					1H 9. API Well No. 30 015 47645	\bigcirc	<u> </u>	
3a. Address PO Box 5270, Hobbs, NM 88240	3b. Ph (575)		o. (include area cod 905	2)	10. Field and Pool, o JENNINGS/PURPI		OLFCAMF	
 Location of Well (Report location clearly and in accordant At surface SESW / 305 FSL / 2250 FWL / LAT 32.0 At proposed prod. zone SENW / 2310 FNL / 1650 FW 	0361835 / L	ONG	-103.8360554	8379908	11. Sec., T. R. M. or SEC 13/T26S/R30		ey or Area	
14. Distance in miles and direction from nearest town or post 25 miles	t office*				12. County or Parish EDDY	n 13.5 NM	State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No 960	o of ac	res in lease	17. Spaci 480.0	ing Unit dedicated to this well			
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 20. BLN 11169 feet / 18726 feet FED: N							
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3255 feet		oproxir /2019	nate date work will	start*	23. Estimated duration 60 days			
	24.	Attach	nments					
The following, completed in accordance with the requiremen (as applicable)	nts of Onsho	re Oil a	and Gas Order No. 1	, and the H	lydraulic Fracturing r	ule per 43 CFR	3162.3-3	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest S: SUPO must be filed with the appropriate Forest Service Of 		s, the	Item 20 above). 5. Operator certific	ation.	is unless covered by ar mation and/or plans as	C	×	
25. Signature (Electronic Submission)			(Printed/Typed) LEY BISHOP / Ph	ı: (575) 39	93-5905	Date 10/04/2019		
Title Regulatory								
Approved by (Signature) (Electronic Submission)	(Cody L	(Printed/Typed) ayton / Ph: (575)	234-5959		Date 11/02/2020		
Title Assistant Field Manager Lands & Minerals	0		ad Field Office					
Application approval does not warrant or certify that the appl applicant to conduct operations thereon. Conditions of approval, if any, are attached.	licant holds	legal o	r equitable title to th	nose rights	in the subject lease where the	hich would ent	itle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 121 of the United States any false, fictitious or fraudulent stateme						ny department	or agency	
e muds are not to be used until fresh water zones are cased a g isolation from the oil or diesel. This includes synthetic oils. luids and solids must be contained in a steel closed loop sys Will require a directional survey with the C-104	Oil bood	mud	TH CONDIT	IONS	Once the well is spo contamination throu surface, the operato through the fresh w mmediately set in c	ugh whole or p or shall drill w ater zone or z	partial conduits fro ithout interruption zones and shall	
SL (Continued on page 2)	ROVED	WI	II COM		KP 11/6/2 *(Ins	2020 GEO R	eview	

Approval Date: 11/02/2020

Entered - KMS NMOCD

District 1 1625 N, French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District III 811 S, First SL, 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. SL Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-5462

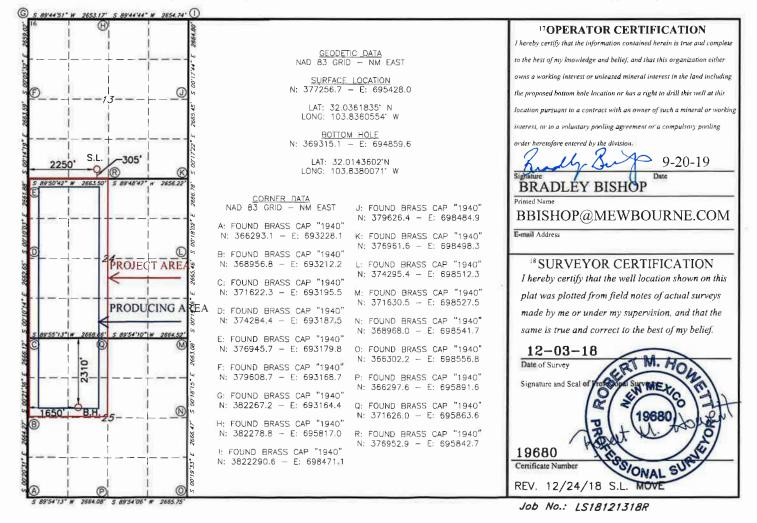
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

1	API Number	1		2Pool Code		3 Pool Name						
30 015 47	7645		_	98220	0	PURPLE SA	AGE; WOLF	CAMP GA	S POOL			
⁴ Property Code ⁵ Property Name 329791 LINDALE 24/25 W1CF FED												
7 OGRID NO.8 Operator Name9 Elevation14744MEWBOURNE OIL COMPANY3227'												
					¹⁰ Surface	Location			PA-			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County			
Ν	13	26S	30E		305	SOUTH	2250	WEST	EDDY			
			п]	Bottom H	ole Location	If Different Fro	om 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	1650	WEST	EDDY			
12 Dedicated Acres	13 Joint	or Infill 14 (Consolidation	Code 15 C	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.



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

GAS CAPTURE PLAN

Date: 9-20-19

 \boxtimes Original

Operator & OGRID No.: Mewbourne Oil Company - 14744

□ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Lindale 24/25 W1CF Fed #1H		N 13-T26S-R30E	305' FSL & 2250' FW	L 0	NA	ONLINE AFTER FRAC

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>western</u> and will be connected to <u>western</u> low/high pressure gathering system located in <u>EDDY</u> County, New Mexico. It will require <u>3,400</u> ' of pipeline to connect the facility to low/high pressure gathering system. <u>Mewbourne Oil Company</u> provides (periodically) to <u>western</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Mewbourne Oil Company</u> and <u>western</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>western</u> Processing Plant located in Sec. <u>36</u>, Blk. <u>58 T1S</u>, <u>Culberson</u>County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>Western</u> system at that time. Based on current information, it is <u>Operator's</u> belief the system can take this gas upon completion of the well(s).

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.

- 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
 - 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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM094610
WELL NAME & NO.:	LINDALE 24/25 W1CF FED COM #1H
SURFACE HOLE FOOTAGE:	305'/S & 2250'/W
BOTTOM HOLE FOOTAGE	2310'/N & 1650'/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	O High
Cave/Karst Potential	Critical		
Variance	© None	Flex Hose	© 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 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 1005 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

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completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u>
 <u>hours</u> 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 <u>Medium Cave/Karst Areas</u> 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 4%, 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.

Page 2 of 8

- 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:

- 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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
 - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 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

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- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24 hours</u>. 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 <u>8 hours</u>. 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:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

Page 6 of 8

- 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

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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Drilling Plan Data Report

11/03/2020

APD ID: 10400048509 Operator Name: MEWBOURNE OIL COMPANY Well Name: LINDALE 24/25 W1CF FED COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 10/04/2019

Well Number: 1H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
552881	UNKNOWN	3255	28	28	OTHER : Top Soil	NONE	N
552882	RUSTLER	2300	955	955	ANHYDRITE, DOLOMITE	USEABLE WATER	N
552883	TOP SALT	1900	1355	1355	SALT	NONE	N
552884	BASE OF SALT	-395	3650	3650	SALT	NONE	N
552885	LAMAR	-560	3815	3815	LIMESTONE	NATURAL GAS, OIL	N
552886	BELL CANYON	-602	3857	3857	SANDSTONE	NATURAL GAS, OIL	N
552887	CHERRY CANYON	-1500	4755	4755	SANDSTONE	NATURAL GAS, OIL	N
552888	MANZANITA	-1680	4935	4935	SANDSTONE	NATURAL GAS, OIL	N
552890	BONE SPRING	-4455	7710	7710	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
552891	BONE SPRING 1ST	-5410	8665	8665	SANDSTONE	NATURAL GAS, OIL	N
552892	BONE SPRING 2ND	-6080	9335	9335	SANDSTONE	NATURAL GAS, OIL	N
552893	BONE SPRING 3RD	-7328	10583	10583	SANDSTONE	NATURAL GAS, OIL	N
552894	WOLFCAMP	-7720	10975	10975	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: 1H

Pressure Rating (PSI): 10M

Rating Depth: 18726

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_1H_Flex_Line_Specs_API_16C_20200211144941.pdf

Lindale_24_25_W1CF_Fed_1H_Flex_Line_Specs_20200211144941.pdf

Lindale_24_25_W1CF_Fed_1H_10M_BOPE_Choke_Diagram_20200211144941.pdf

BOP Diagram Attachment:

Lindale_24_25_W1CF_Fed_1H_10M_Annular_BOP_Variance_20200211145001.doc

Lindale_24_25_W1CF_Fed_1H_10M_BOPE_Schematic_w_5M_Annular_20200211145003.pdf

Lindale_24_25_W1CF_Fed_1H_10M_Multi_Bowl_WH_20200211145005.pdf

					_		_		- P													
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	1005	0	1005	3255	2250	1005	H-40	48	ST&C	1.67	3.76	DRY	6.67	DRY	11.2 1
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	11300	0	11118		-7863	11300	P- 110	29	LT&C	1.13	1.81	DRY	2.36	DRY	2.83
4	LINER	6.12 5	4.5	NEW	API	N	10614	18726	10585	11169	-7330	-7914		P- 110	13.5	LT&C	1.41	1.64	DRY	3.09	DRY	3.85

Section 3 - Casing

Casing Attachments

Well Number: 1H

Casing Attachments

Casing ID: 1 String Type:SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Lindale_24_25_W1CF_Fed_1H_Csg_Assumptions_20200211145617.pdf$

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_1H_Csg_Assumptions_20200211145634.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Lindale_24_25_W1CF_Fed_1H_Csg_Assumptions_20200211145656.pdf

Well Number: 1H

Casing Attachments

Casing ID: 4 String Ty

String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Lindale_24_25_W1CF_Fed_1H_Csg_Assumptions_20200211145719.pdf$

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	814	540	2.12	12.5	1145	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	1	814	1005	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	127	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	8825	350	2.12	12.5	742	25	Class H	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		8825	1130 0	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		1061 4	1872 6	320	2.97	11.2	950	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Operator Name: MEWBOURNE OIL COMPANY Well Name: LINDALE 24/25 W1CF FED COM

Well Number: 1H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

Describe the mud monitoring system utilized: Visual Monitoring

Circulating Medium Table

	1					-					
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1005	SPUD MUD	8.6	8.8							
1005	3750	SALT SATURATED	10	10							
3750	1111 8	WATER-BASED MUD	8.6	9.5							
1111 8	1116 9	OIL-BASED MUD	9.5	13							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (10614') to surface.

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

Operator Name: MEWBOURNE OIL COMPANY **Well Name:** LINDALE 24/25 W1CF FED COM

Well Number: 1H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7550

Anticipated Surface Pressure: 5092

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_1H_H2S_Plan_20191003092118.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Lindale_24_25_W1CF_Fed_1H_Dir_plot_20191003092158.pdf

Lindale_24_25_W1CF_Fed_1H_Dir_plan_20191003092158.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Lindale_24_25_W1CF_Fed_1H_Add_Info_20191003092229.pdf

Other Variance attachment:

Hole	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	1005'	13.375"	48	H40	STC	1.67	3.76	6.67	11.21
12.25"	0'	3750'	9.625"	40	L80	LTC	1.58	2.95	4.85	6.11
8.75"	0'	11300'	7"	29	HCP110	LTC	1.13	1.81	2.36	2.83
6.125"	10614'	18726'	4.5"	13.5	P110	LTC	1.41	1.64	3.09	3.85
				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 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?	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?	

Hole	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	1005'	13.375"	48	H40	STC	1.67	3.76	6.67	11.21
12.25"	0'	3750'	9.625"	40	L80	LTC	1.58	2.95	4.85	6.11
8.75"	0'	11300'	7"	29	HCP110	LTC	1.13	1.81	2.36	2.83
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Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
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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

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				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
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If yes, are there three strings cemented to surface?	

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

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

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

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

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

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

A. Wind direction indicators as indicated on the wellsite diagram.

B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

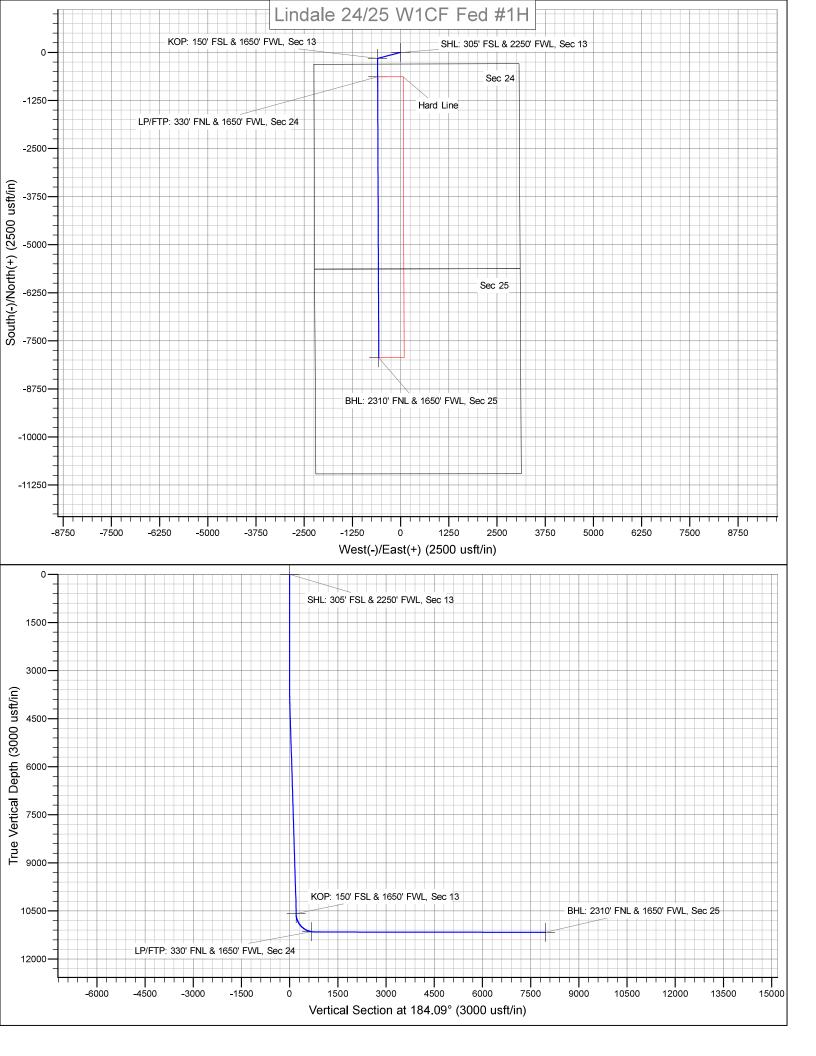
7. Well Testing

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

8. Emergency Phone Numbers

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

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



Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Lindale 24/25 W1CF Fed #1H Sec 13, T26S, R30E SHL: 305' FSL & 2250' FWL, Sec 13 BHL: 2310' FNL & 1650' FWL, Sec 25

Plan: Design #1

Standard Planning Report

17 September, 2019

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Lindale 24/25 W1CF Fed #1H Sec 13, T26S, R30E BHL: 2310' FNL & 1650' FWL, Sec 25 Design #1					Local Co-ordinate Reference:Site Lindale 24/25 W1CF Fed #1HTVD Reference:WELL @ 3255.0usft (Original Well Elev)MD Reference:WELL @ 3255.0usft (Original Well Elev)North Reference:GridSurvey Calculation Method:Minimum Curvature						
Project	Eddy C	ounty, New Me	xico NAD 83									
Map System: Geo Datum: Map Zone:	North Am	e Plane 1983 nerican Datum kico Eastern Zo			System Da	tum:	G	round Level				
Site	Lindale	24/25 W1CF F	ed #1H									
Site Position: From: Position Uncertainty	Map :		Northi Eastin) usft Slot Ra	g:		,257.00 usft ,428.00 usft 13-3/16 "	Latitude: Longitude: Grid Conver	gence:		32.0361844 -103.8360554 0.26 °		
Well	Sec 13,	T26S, R30E										
Well Position Position Uncertainty	+N/-S +E/-W	0	.0 usft Ea	rthing: sting: ellhead Eleva	tion	377,257.00 695,428.00 3,255.0	usft Lo	itude: ngitude: ound Level:		32.0361844 -103.8360554 3.227.0 usft		
						0,200.0				0,227.0 001		
Wellbore	BHL: 2	310' FNL & 16	50' FWL, Sec 2	25								
Magnetics	Мо	del Name	Sample	e Date	Declina (°)			Angle °)		Strength nT)		
		GRF2010		9/17/2019		6.67		59.76		47,629		
Design	Design	#1										
Audit Notes:												
Version:			Phase) :	PROTOTYPE	Tie	On Depth:		0.0			
Vertical Section:		D	epth From (TV (usft)	′D)	+N/-S (usft)	(u	:/-W sft)		rection (°)			
			3,255.0		0.0	C).0	18	84.09			
Plan Sections												
-	nation (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target		
0.0 3,750.0	0.00 0.00	0.00 0.00	0.0 3,750.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00		0.00 0.00			
4,114.5	5.47	255.31	4,113.9	-4.4	-16.8	1.50	1.50		255.31			
10,249.6 10,614.0	5.47 0.00	255.31 0.00	10,221.1 10,585.0	-152.6 -157.0	-582.2 -599.0	0.00 1.50	0.00 -1.50		0.00 180.00	KOP: 150' FSL & 165(
11,513.2	89.91	179.77	11,158.0 11,160.0	-729.1	-596.7	10.00	10.00		179.77	PHI - 2210' ENIL 9 164		

18,726.1

89.91

179.77

11,169.0

-7,942.0

-568.0

0.00

0.00

0.00

0.00 BHL: 2310' FNL & 16t

Database:	Hobbs	Local Co-ordinate Reference:	Site Lindale 24/25 W1CF Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3255.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3255.0usft (Original Well Elev)
Site:	Lindale 24/25 W1CF Fed #1H	North Reference:	Grid
Well:	Sec 13, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FNL & 1650' FWL, Sec 25		
Design:	Design #1		

Measured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
(usit)	(°)	(°)	(usit)	(usft)	(usft)	(usit)	(mousit)	(Produsit)	(mousit)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	SL & 2250' FWL,								
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
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00	0.00		0.0	0.0	0.0	0.00	0.00	0.00
1,200.0			1,200.0						
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		0.0	0.0	0.0	0.00	0.00	0.00
1,300.0			1,900.0					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
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
3,000.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00								
3,200.0		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	0.00	0.00	3,750.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.75	255.31	3,800.0	-0.1	-0.3	0.1	1.50	1.50	0.00
3,900.0	2.25	255.31	3,900.0	-0.7	-2.8	0.9	1.50	1.50	0.00
4,000.0	3.75	255.31	3,999.8	-2.1	-7.9	2.6	1.50	1.50	0.00
4,100.0	5.25	255.31	4,099.5	-4.1	-15.5	5.2	1.50	1.50	0.00
4,114.5	5.47	255.31	4,113.9	-4.4	-16.8	5.6	1.50	1.50	0.00
4,200.0	5.47	255.31	4,199.1	-6.5	-24.7	8.2	0.00	0.00	0.00
							0.00	0.00	0.00
4,300.0	5.47	255.31	4,298.6	-8.9	-33.9	11.3	0.00	0.00	0.00
4,400.0	5.47	255.31	4,398.1	-11.3	-43.1	14.3	0.00	0.00	0.00
4,500.0	5.47	255.31	4,497.7	-13.7	-52.3	17.4	0.00	0.00	0.00
4,600.0	5.47	255.31	4,597.2	-16.1	-61.6	20.5	0.00	0.00	0.00
4,700.0	5.47	255.31	4,696.8	-18.5	-70.8	23.5	0.00	0.00	0.00
4,800.0	5.47	255.31	4,796.3	-21.0	-80.0	26.6	0.00	0.00	0.00
4,800.0	5.47	255.31	4,796.3	-21.0	-80.0	20.0	0.00	0.00	0.00
4,900.0 5,000.0	5.47	255.31	4,895.9 4,995.4	-23.4 -25.8	-09.2 -98.4	29.7 32.7			0.00
	5.47	255 31	4 995 4	-/D Ö	-98.4	32.1	0.00	0.00	U 00

Database:	Hobbs	Local Co-ordinate Reference:	Site Lindale 24/25 W1CF Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3255.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3255.0usft (Original Well Elev)
Site:	Lindale 24/25 W1CF Fed #1H	North Reference:	Grid
Well:	Sec 13, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FNL & 1650' FWL, Sec 25		
Design:	Design #1		

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)
5,100.0	5.47	255.31	5,095.0	-28.2	-107.6	35.8	0.00	0.00	0.00
5,200.0	5.47	255.31	5,194.5	-30.6	-116.8	38.9	0.00	0.00	0.00
,									
5,300.0	5.47	255.31	5,294.1	-33.0	-126.1	41.9	0.00	0.00	0.00
5,400.0	5.47	255.31	5,393.6	-35.5	-135.3	45.0	0.00	0.00	0.00
5,500.0	5.47	255.31	5,493.1	-37.9	-144.5	48.1	0.00	0.00	0.00
5,600.0	5.47	255.31	5,592.7	-40.3	-153.7	51.1	0.00	0.00	0.00
5,700.0	5.47	255.31	5,692.2	-42.7	-162.9	54.2	0.00	0.00	0.00
5,800.0	5.47	255.31	5,791.8	-45.1	-172.1	57.3	0.00	0.00	0.00
5,900.0	5.47	255.31	5,891.3	-47.5	-172.1	60.3	0.00	0.00	0.00
6,000.0	5.47	255.31	5,990.9	-49.9	-190.6	63.4	0.00	0.00	0.00
6,100.0	5.47	255.31	6,090.4	-49.9 -52.4	-190.8	66.5	0.00	0.00	0.00
,									
6,200.0	5.47	255.31	6,190.0	-54.8	-209.0	69.6	0.00	0.00	0.00
6,300.0	5.47	255.31	6,289.5	-57.2	-218.2	72.6	0.00	0.00	0.00
6,400.0	5.47	255.31	6,389.1	-59.6	-227.4	75.7	0.00	0.00	0.00
6,500.0	5.47	255.31	6,488.6	-62.0	-236.6	78.8	0.00	0.00	0.00
6,600.0	5.47	255.31	6,588.1	-64.4	-245.9	81.8	0.00	0.00	0.00
6,700.0	5.47	255.31	6,687.7	-66.9	-255.1	84.9	0.00	0.00	0.00
6,800.0	5.47	255.31	6,787.2	-69.3	-264.3	88.0	0.00	0.00	0.00
6,900.0	5.47	255.31	6,886.8	-71.7	-273.5	91.0	0.00	0.00	0.00
7,000.0	5.47	255.31	6,986.3	-74.1	-282.7	94.1	0.00	0.00	0.00
7,100.0	5.47	255.31	7,085.9	-76.5	-291.9	97.2	0.00	0.00	0.00
7,200.0	5.47	255.31	7,185.4	-78.9	-301.2	100.2	0.00	0.00	0.00
7,300.0	5.47	255.31	7,285.0	-81.4	-310.4	103.3	0.00	0.00	0.00
,									
7,400.0	5.47	255.31	7,384.5	-83.8	-319.6	106.4	0.00	0.00	0.00
7,500.0	5.47	255.31	7,484.0	-86.2	-328.8	109.4	0.00	0.00	0.00
7,600.0	5.47	255.31	7,583.6	-88.6	-338.0	112.5	0.00	0.00	0.00
7,700.0	5.47	255.31	7,683.1	-91.0	-347.2	115.6	0.00	0.00	0.00
7,800.0	5.47	255.31	7,782.7	-93.4	-356.5	118.6	0.00	0.00	0.00
7,900.0	5.47	255.31	7,882.2	-95.8	-365.7	121.7	0.00	0.00	0.00
8,000.0	5.47	255.31	7,981.8	-98.3	-374.9	124.8	0.00	0.00	0.00
8,100.0	5.47	255.31	8,081.3	-100.7	-384.1	124.0	0.00	0.00	0.00
8,200.0	5.47	255.31	8,180.9	-103.1	-393.3	127.8	0.00	0.00	0.00
0,200.0	5.47	200.01	0,100.9	-103.1	-393.3	130.9	0.00	0.00	0.00
8,300.0	5.47	255.31	8,280.4	-105.5	-402.5	134.0	0.00	0.00	0.00
8,400.0	5.47	255.31	8,380.0	-107.9	-411.7	137.0	0.00	0.00	0.00
8,500.0	5.47	255.31	8,479.5	-110.3	-421.0	140.1	0.00	0.00	0.00
8,600.0	5.47	255.31	8,579.0	-112.8	-430.2	143.2	0.00	0.00	0.00
8,700.0	5.47	255.31	8,678.6	-115.2	-439.4	146.2	0.00	0.00	0.00
8,800.0	5.47	255.31	8,778.1	-117.6	-448.6	149.3	0.00	0.00	0.00
8,900.0	5.47	255.31	8,877.7	-120.0	-457.8	152.4	0.00	0.00	0.00
9,000.0	5.47	255.31	8,977.2	-122.4	-467.0	155.4	0.00	0.00	0.00
9,100.0	5.47	255.31	9,076.8	-124.8	-476.3	158.5	0.00	0.00	0.00
9,200.0	5.47	255.31	9,176.3	-127.2	-485.5	161.6	0.00	0.00	0.00
9,300.0	5.47	255.31	9,275.9	-129.7	-494.7	164.6	0.00	0.00	0.00
9,400.0	5.47	255.31	9,375.4	-132.1	-503.9	164.0	0.00	0.00	0.00
9,400.0 9,500.0		255.31		-132.1	-503.9	170.8			0.00
,	5.47		9,475.0				0.00	0.00	
9,600.0	5.47	255.31	9,574.5	-136.9	-522.3	173.8	0.00	0.00	0.00
9,700.0	5.47	255.31	9,674.0	-139.3	-531.5	176.9	0.00	0.00	0.00
9,800.0	5.47	255.31	9,773.6	-141.7	-540.8	180.0	0.00	0.00	0.00
9,900.0	5.47	255.31	9,873.1	-144.2	-550.0	183.0	0.00	0.00	0.00
10,000.0	5.47	255.31	9,972.7	-146.6	-559.2	186.1	0.00	0.00	0.00
10,100.0	5.47	255.31	10,072.2	-149.0	-568.4	189.2	0.00	0.00	0.00
10,200.0	5.47	255.31	10,171.8	-151.4	-577.6	192.2	0.00	0.00	0.00
10,249.6	5.47	255.31	10,221.1	-152.6	-582.2	193.7	0.00	0.00	0.00
10,300.0	4.71	255.31	10,271.3	-153.7	-586.5	195.2	1.50	-1.50	0.00

Database:	Hobbs	Local Co-ordinate Reference:	Site Lindale 24/25 W1CF Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3255.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3255.0usft (Original Well Elev)
Site:	Lindale 24/25 W1CF Fed #1H	North Reference:	Grid
Well:	Sec 13, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FNL & 1650' FWL, Sec 25		
Design:	Design #1		

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)
10,400.0	3.21	255.31	10,371.1	-155.5	-593.2	197.4	1.50	-1.50	0.00
10,500.0	1.71	255.31	10,471.0	-156.6	-597.4	198.8	1.50	-1.50	0.00
10,600.0	0.21	255.31	10,571.0	-157.0	-599.0	199.3	1.50	-1.50	0.00
10,614.0	0.00	0.00	10,585.0	-157.0	-599.0	199.3	1.50	-1.50	0.00
,	SL & 1650' FWL,		,						
10,700.0	8.60	179.77	10,670.7	-163.4	-599.0	205.8	10.00	10.00	0.00
10,800.0	18.60	179.77	10,767.7	-186.9	-598.9	229.2	10.00	10.00	0.00
10,900.0	28.60	179.77	10,859.3	-226.9	-598.7	269.0	10.00	10.00	0.00
11,000.0	38.60	179.77	10,942.5	-282.2	-598.5	324.1	10.00	10.00	0.00
11,100.0	48.60	179.77	11,014.8	-351.0	-598.2	392.8	10.00	10.00	0.00
11,200.0	58.59	179.77	11,074.1	-431.4	-597.9	473.0	10.00	10.00	0.00
11,300.0	68.59	179.77	11,118.5	-520.9	-597.6	562.2	10.00	10.00	0.00
11,400.0	78.59	179.77	11,146.7	-616.7	-597.2	657.7	10.00	10.00	0.00
11,418.6	80.45	179.77	11,150.1	-635.0	-597.1	676.0	10.00	10.00	0.00
LP/FTP: 330	' FNL & 1650' FV	VL, Sec 24							
11,500.0	88.59	179.77	11,157.8	-715.9	-596.8	756.7	10.00	10.00	0.00
11,513.2	89.91	179.77	11,158.0	-729.1	-596.7	769.8	10.00	10.00	0.00
11,600.0	89.91	179.77	11,158.1	-815.9	-596.4	856.4	0.00	0.00	0.00
11,700.0	89.91	179.77	11,158.3	-915.9	-596.0	956.1	0.00	0.00	0.00
11,800.0	89.91	179.77	11,158.4	-1,015.9	-595.6	1,055.8	0.00	0.00	0.00
11,900.0	89.91	179.77	11,158.6	-1,115.9	-595.2	1,155.5	0.00	0.00	0.00
12,000.0	89.91	179.77	11,158.7	-1,215.9	-594.8	1,255.2	0.00	0.00	0.00
12,100.0	89.91	179.77	11,158.9	-1,315.9	-594.4	1,355.0	0.00	0.00	0.00
12,200.0	89.91	179.77	11,159.0	-1,415.9	-594.0	1,454.7	0.00	0.00	0.00
12,300.0	89.91	179.77	11,159.2	-1,515.9	-593.6	1,554.4	0.00	0.00	0.00
12,400.0	89.91	179.77	11,159.4	-1,615.9	-593.2	1,654.1	0.00	0.00	0.00
12,500.0	89.91	179.77	11,159.5	-1,715.9	-592.8	1,753.8	0.00	0.00	0.00
12,600.0	89.91	179.77	11,159.7	-1,815.9	-592.4	1,853.5	0.00	0.00	0.00
12,700.0	89.91	179.77	11,159.8	-1,915.9	-592.0	1,953.3	0.00	0.00	0.00
12,800.0	89.91	179.77	11,160.0	-2,015.9	-591.6	2,053.0	0.00	0.00	0.00
12,900.0	89.91	179.77	11,160.1	-2,115.9	-591.2	2,152.7	0.00	0.00	0.00
13,000.0	89.91	179.77	11,160.3	-2,215.9	-590.8	2,252.4	0.00	0.00	0.00
13,100.0	89.91	179.77	11,160.4	-2,315.9	-590.4	2,352.1	0.00	0.00	0.00
13,200.0	89.91	179.77	11,160.6	-2,415.9	-590.0	2,451.8	0.00	0.00	0.00
13,300.0	89.91	179.77	11,160.7	-2,515.9	-589.6	2,551.6	0.00	0.00	0.00
13,400.0	89.91	179.77	11,160.9	-2,615.9	-589.2	2,651.3	0.00	0.00	0.00
13,500.0	89.91	179.77	11,161.0	-2,715.9	-588.8	2,751.0	0.00	0.00	0.00
13,600.0	89.91	179.77	11,161.2	-2,815.9	-588.4	2,850.7	0.00	0.00	0.00
13,700.0	89.91	179.77	11,161.3	-2,915.9	-588.0	2,950.4	0.00	0.00	0.00
13,800.0	89.91	179.77	11,161.5	-3,015.9	-587.6	3,050.1	0.00	0.00	0.00
13,900.0	89.91	179.77	11,161.6	-3,115.9	-587.2	3,149.8	0.00	0.00	0.00
14,000.0	89.91	179.77	11,161.8	-3,215.9	-586.8	3,249.6	0.00	0.00	0.00
14,100.0	89.91	179.77	11,161.9	-3,315.9	-586.4	3,349.3	0.00	0.00	0.00
14,200.0	89.91	179.77	11,162.1	-3,415.9	-586.0	3,449.0	0.00	0.00	0.00
14,300.0	89.91	179.77	11,162.2	-3,515.9	-585.6	3,548.7	0.00	0.00	0.00
14,400.0	89.91	179.77	11,162.4	-3,615.9	-585.2	3,648.4	0.00	0.00	0.00
14,500.0	89.91	179.77	11,162.6	-3,715.9	-584.8	3,748.1	0.00	0.00	0.00
14,600.0	89.91	179.77	11,162.7	-3,815.9	-584.4	3,847.9	0.00	0.00	0.00
14,700.0	89.91	179.77	11,162.9	-3,915.9	-584.0	3,947.6	0.00	0.00	0.00
14,800.0	89.91	179.77	11,163.0	-4,015.9	-583.6	4,047.3	0.00	0.00	0.00
14,900.0	89.91	179.77	11,163.2	-4,115.9	-583.2	4,147.0	0.00	0.00	0.00
15,000.0	89.91	179.77	11,163.3	-4,215.9	-582.8	4,246.7	0.00	0.00	0.00
15,100.0	89.91	179.77	11,163.5	-4,315.9	-582.4	4,346.4	0.00	0.00	0.00
15,200.0	89.91	179.77	11,163.6	-4,415.9	-582.0	4,446.2	0.00	0.00	0.00

Detahana	Hobbs	Level Co. andinata Defensiona	Site Lindale 24/25 W1CF Fed #1H
Database:	HODDS	Local Co-ordinate Reference:	Sile Linuale 24/25 WICF Fed #IT
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3255.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3255.0usft (Original Well Elev)
Site:	Lindale 24/25 W1CF Fed #1H	North Reference:	Grid
Well:	Sec 13, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FNL & 1650' FWL, Sec 25		
Design:	Design #1		

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)
15,300.0	89.91	179.77	11,163.8	-4,515.9	-581.6	4,545.9	0.00	0.00	0.00
15,400.0	89.91	179.77	11,163.9	-4,615.9	-581.2	4,645.6	0.00	0.00	0.00
15,500.0	89.91	179.77	11,164.1	-4,715.9	-580.8	4,745.3	0.00	0.00	0.00
15,600.0	89.91	179.77	11,164.2	-4,815.9	-580.4	4,845.0	0.00	0.00	0.00
15,700.0	89.91	179.77	11,164.4	-4,915.9	-580.1	4,944.7	0.00	0.00	0.00
15,800.0	89.91	179.77	11,164.5	-5,015.9	-579.7	5,044.5	0.00	0.00	0.00
15,900.0	89.91	179.77	11,164.7	-5,115.9	-579.3	5,144.2	0.00	0.00	0.00
16,000.0	89.91	179.77	11,164.8	-5,215.9	-578.9	5,243.9	0.00	0.00	0.00
16,100.0	89.91	179.77	11,165.0	-5,315.9	-578.5	5,343.6	0.00	0.00	0.00
16,200.0	89.91	179.77	11,165.1	-5,415.9	-578.1	5,443.3	0.00	0.00	0.00
16,300.0	89.91	179.77	11,165.3	-5,515.9	-577.7	5,543.0	0.00	0.00	0.00
16,400.0	89.91	179.77	11,165.5	-5,615.9	-577.3	5,642.7	0.00	0.00	0.00
16,500.0	89.91	179.77	11,165.6	-5,715.9	-576.9	5,742.5	0.00	0.00	0.00
16,600.0	89.91	179.77	11,165.8	-5,815.9	-576.5	5,842.2	0.00	0.00	0.00
16,700.0	89.91	179.77	11,165.9	-5,915.9	-576.1	5,941.9	0.00	0.00	0.00
16,800.0	89.91	179.77	11,166.1	-6,015.9	-575.7	6,041.6	0.00	0.00	0.00
16,900.0	89.91	179.77	11,166.2	-6,115.9	-575.3	6,141.3	0.00	0.00	0.00
17,000.0	89.91	179.77	11,166.4	-6,215.9	-574.9	6,241.0	0.00	0.00	0.00
17,100.0	89.91	179.77	11,166.5	-6,315.9	-574.5	6,340.8	0.00	0.00	0.00
17,200.0	89.91	179.77	11,166.7	-6,415.9	-574.1	6,440.5	0.00	0.00	0.00
17,300.0	89.91	179.77	11,166.8	-6,515.9	-573.7	6,540.2	0.00	0.00	0.00
17,400.0	89.91	179.77	11,167.0	-6,615.9	-573.3	6,639.9	0.00	0.00	0.00
17,500.0	89.91	179.77	11,167.1	-6,715.9	-572.9	6,739.6	0.00	0.00	0.00
17,600.0	89.91	179.77	11,167.3	-6,815.9	-572.5	6,839.3	0.00	0.00	0.00
17,700.0	89.91	179.77	11,167.4	-6,915.9	-572.1	6,939.1	0.00	0.00	0.00
17,800.0	89.91	179.77	11,167.6	-7,015.9	-571.7	7,038.8	0.00	0.00	0.00
17,900.0	89.91	179.77	11,167.7	-7,115.9	-571.3	7,138.5	0.00	0.00	0.00
18,000.0	89.91	179.77	11,167.9	-7,215.9	-570.9	7,238.2	0.00	0.00	0.00
18,100.0	89.91	179.77	11,168.0	-7,315.9	-570.5	7,337.9	0.00	0.00	0.00
18,200.0	89.91	179.77	11,168.2	-7,415.9	-570.1	7,437.6	0.00	0.00	0.00
18,300.0	89.91	179.77	11,168.3	-7,515.9	-569.7	7,537.3	0.00	0.00	0.00
18,400.0	89.91	179.77	11,168.5	-7,615.9	-569.3	7,637.1	0.00	0.00	0.00
18,500.0	89.91	179.77	11,168.7	-7,715.9	-568.9	7,736.8	0.00	0.00	0.00
18,600.0	89.91	179.77	11,168.8	-7,815.9	-568.5	7,836.5	0.00	0.00	0.00
18,700.0	89.91	179.77	11,169.0	-7,915.9	-568.1	7,936.2	0.00	0.00	0.00
18,726.1	89.91	179.77	11,169.0	-7,942.0	-568.0	7,962.3	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Eddy Cou Lindale 24 Sec 13, T	TVD Reference:Wbunty, New Mexico NAD 83MD Reference:W24/25 W1CF Fed #1HNorth Reference:GT26S, R30ESurvey Calculation Method:M10' FNL & 1650' FWL, Sec 25HH				WELL @ 3 WELL @ 3 Grid	Site Lindale 24/25 W1CF Fed #1H WELL @ 3255.0usft (Original Well Elev) WELL @ 3255.0usft (Original Well Elev) Grid Minimum Curvature			
Design Targets										
Target Name - hit/miss target - Shape	Dip Ang (°)	le	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 305' FSL & 2250' - plan hits target c - Point		.00	0.00	0.0	0.0	0.0	377,257.00	695,428.00	32.0361844	-103.8360554
KOP: 150' FSL & 1650 - plan hits target c - Point		.00	0.00	10,585.0	-157.0	-599.0	377,100.00	694,829.00	32.0357604	-103.8379908
LP/FTP: 330' FNL & 16 - plan hits target c - Point		.00	0.00	11,150.1	-635.0	-597.1	376,622.00	694,830.90	32.0344464	-103.8379917
BHL: 2310' FNL & 165 - plan hits target c - Point		.00	0.00	11,169.0	-7,942.0	-568.0	369,315.00	694,860.00	32.0143599	-103.8380059

Intent X As Drilled		
API #		
Operator Name: Mewbourne Oil Co.	Property Name: Lindale 24/25 W1CF Fed	Well Number 1H

Kick Off Point (KOP)

UL N	Section 13	Township 26S	Range 30E	Lot	Feet 150	From N/S S	Feet 2250	From E/W	County Eddy
Latitu	de				Longitude				NAD
32.0)3576()4			-103.837	79908			83

First Take Point (FTP)

UL C	Section 24	Township 26S	Range 30E	Lot	Feet 330	From N/S N	Feet 1650	From E/W W	County Eddy
Latitu 32.0	^{de})34446	64			Longitude -103.837	79917			NAD 83

Last Take Point (LTP)

UL F	Section 25	Township 26S	Range 30E	Lot	Feet 2310	From N/S	Feet 1650	From E/W	County Eddy
Latitu 32.0	^{de})1435	99			Longitud	^{de} 838005	9		NAD 83

Is this well the defining well for the Horizontal Spacing Unit? Y

Is this well an infill well?

Ν

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 06/29/2018