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Form 3160-3
(June 2015)

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FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

DISTRICT/ARTESIA OGD

UNITED STATES **DISTRICT/ARTESIA OGD**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM019619
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator MEWBOURNE OIL COMPANY		8. Lease Name and Well No. COLTRANE 36/25-W0PI.FED COM 1H 326024
3a. Address PO Box 5270 Hobbs NM 88240	3b. Phone No. (include area code) (575)393-5905	9. API Well No. 30-015-46210
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 400 FSL / 410 FEL / LAT 32.0806392 / LONG -103.7243902 At proposed prod. zone NESE / 2310 FSL / 330 FEL / LAT 32.1003904 / LONG -103.7241208		10. Field and Pool, or Exploratory 1ST BONESPRING SAND / PURPLE SAND
11. Sec., T, R, M, or Blk. and Survey or Area SEC 36 / T25S / R31E / NMP		12. County or Parish EDDY
14. Distance in miles and direction from nearest town or post office* 30 miles		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 185 feet	16. No of acres in lease 520	17. Spacing, Unit dedicated to this well 320
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 50 feet	19. Proposed Depth 11774 feet / 19151 feet	20. BLM/BIA Bond No. in file FED: NM1693
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3328 feet	22. Approximate date work will start* 08/23/2018	23. Estimated duration 60 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.	4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
2. A Drilling Plan.	5. Operator certification.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).	6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) Bradley Bishop / Ph: (575)393-5905	Date 05/24/2018
Title Regulatory		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 01/24/2019
Title Assistant Field Manager Lands & Minerals		
Office CARLSBAD		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS
Approval Date: 01/24/2019

(Continued on page 2)

*(Instructions on page 2)

RWP 8-8-19

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

- I. SHL: SESE / 400 FSL / 410 FEL / TWSP: 25S / RANGE: 31E / SECTION: 36 / LAT: 32.0806392 / LONG: -103.7243902 (TVD: 0 feet, MD: 0 feet)
- PPP: SESE / 330 FSL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 36 / LAT: 32.0804456 / LONG: -103.7241313 (TVD: 11742 feet, MD: 11892 feet)
- PPP: SESE / 0 FSL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.0940416 / LONG: -103.7241233 (TVD: 11772 feet, MD: 16841 feet)
- BHL: NESE / 2310 FSL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.1003904 / LONG: -103.7241208 (TVD: 11774 feet, MD: 19151 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934

Email: pperez@blm.gov

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Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
LEASE NO.:	NMNM019619
WELL NAME & NO.:	1H- COLTRANE 36/25 WOPI FED COM
SURFACE HOLE FOOTAGE:	400'S & 410'E
BOTTOM HOLE FOOTAGE	2310'S & 330'E
LOCATION:	Section. 36.,T25S.,R.31E., NMP
COUNTY:	LEA County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> 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

1. The 13-3/8 inch surface casing shall be set at approximately **1225** feet (a minimum of 25 feet 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 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 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.

- ❖ 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.

Operator shall filled 1/3rd casing with fluid while running intermediate casing to maintain collapse safety factor.

3. The minimum required fill of cement behind the 7 inch production casing is: 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.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool: Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

4. The minimum required fill of cement behind the 4-1/2 inch production liner is:

- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - 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.

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)

Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)

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
 - 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.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
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: 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.
 - 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.
 - 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.

ZS 012319



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

Operator Certification Data Report

08/06/2019

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Bradley Bishop

Signed on: 05/24/2018

Title: Regulatory

Street Address: PO Box 5270

City: Hobbs

State: NM

Zip: 88240

Phone: (575)393-5905

Email address: bbishop@mewbourne.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



APD ID: 10400030357

Submission Date: 05/24/2018

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400030357

Tie to previous NOS?

Submission Date: 05/24/2018

BLM Office: CARLSBAD

User: Bradley Bishop

Title: Regulatory

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM019619

Lease Acres: 520

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: MEWBOURNE OIL COMPANY

Operator letter of designation:

Coltrane36_25W0PIFedCom1H_operatorletterofdesignation_20181003111320.pdf

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: PO Box 5270

Zip: 88240

Operator PO Box:

Operator City: Hobbs

State: NM

Operator Phone: (575)393-5905

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: 1ST BONESPRING SAND Pool Name: PURPLE SAGE WOLFCAMP GAS

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Describe other minerals:

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** NO **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: **Number:** 2

COLTRANE 36/25 PI FED COM

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 30 Miles

Distance to nearest well: 50 FT

Distance to lease line: 185 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Coltrane36_25W0PIFedCom1H_wellplat_20180524142250.pdf

Well work start Date: 08/23/2018

Duration: 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	400	FSL	410	FEL	25S	31E	36	Aliquot SESE	32.08063 92	- 103.7243 902	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	332 8	0	0
KOP Leg #1	10	FSL	330	FEL	25S	31E	36	Aliquot SESE	32.07956 87	- 103.7241 318	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	-. 796 4	113 03	112 92
PPP Leg #1	0	FSL	330	FEL	25S	31E	25	Aliquot SESE	32.09404 16	- 103.7241 233	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 019619	- 844 4	168 41	117 72

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP Leg #1	330	FSL	330	FEL	25S	31E	36	Aliquot SESE	32.08044 56	- 103.7241 313	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 841 4	118 92	117 42
EXIT Leg #1	231 0	FSL	330	FEL	25S	31E	25	Aliquot NESE	32.10039 04	- 103.7241 208	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 019619	- 844 6	191 51	117 74
BHL Leg #1	231 0	FSL	330	FEL	25S	31E	25	Aliquot NESE	32.10039 04	- 103.7241 208	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 019619	- 844 6	191 51	117 74

United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 E Greene Street
Carlsbad, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name: Mewbourne Oil Company
Street or Box: P.O. Box 5270
City, State: Hobbs, New Mexico
Zip Code: 88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Lease Number: NMNM 019619
Legal Description of Land: Section 36, T25S, R31E, Eddy County, New Mexico.
Location @ 400 FSL & 410 FEL
Formation (if applicable): Wolfcamp
Bond Coverage: \$150,000
BLM Bond File: NM1693 nationwide, NMB000919



Authorized Signature: _____

Name: Bradley Bishop
Title: Regulatory Manager

Date: 5-17-18



APD ID: 10400030357

Submission Date: 05/24/2018

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3328	27	27		NONE	N
2	RUSTLER	2258	1070	1070	ANHYDRITE, DOLOMIT E	USEABLE WATER	N
3	TOP SALT	2098	1230	1230	SALT	NONE	N
4	BOTTOM SALT	-812	4140	4140	SALT	NONE	N
5	DELAWARE	-982	4310	4310	LIMESTONE	NATURAL GAS, OIL	N
6	MANZANITA	-2202	5530	5530	SANDSTONE	NATURAL GAS, OIL	N
7	BRUSHY CANYON	-3722	7050	7050	SANDSTONE	NATURAL GAS, OIL	N
8	BONE SPRING	-5002	8330	8330	LIMESTONE, SHALE	NATURAL GAS, OIL	N
9	BONE SPRING 1ST	-6082	9410	9410	SANDSTONE	NATURAL GAS, OIL	N
10	BONE SPRING 2ND	-6772	10100	10110	SANDSTONE	NATURAL GAS, OIL	N
11	BONE SPRING 3RD	-7882	11210	11230	SANDSTONE	NATURAL GAS, OIL	N
12	WOLFCAMP	-8312	11640	11700	LIMESTONE, SHALE, SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 19151

Equipment: Annular, Pipe Rams, Blind Rams

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. Anchors are not required by the manufacturer. A multi-bowl wellhead will be 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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

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:

Coltrane_36_25_W0IP_Fed_Com_1H_5M_BOPE_Choke_Diagram_20180523153742.pdf

Coltrane_36_25_W0IP_Fed_Com_1H_Flex_Line_Specs_20180523153753.pdf

BOP Diagram Attachment:

Coltrane_36_25_W0IP_Fed_Com_1H_5M_BOPE_Schematic_20180523153807.pdf

Coltrane_36_25_W0IP_Fed_Com_1H_5M_Multi_Bowl_WH_20180523153819.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	625	0	625	3328	2703	625	H-40	48	ST&C	1.47	3.3	DRY	5.86	DRY	9.84
2	INTERMEDIATE	12.25	9.625	NEW	API	Y	0	4235	0	4235	3328	-907	4235	J-55	36	LT&C	1.13	1.96	DRY	2.91	DRY	3.62
3	PRODUCTION	8.75	7.0	NEW	API	N	0	12054	0	11770	3328	-8442	12054	P-110	26	LT&C	1.4	1.78	DRY	2.08	DRY	2.65
4	LINER	6.125	4.5	NEW	API	N	11303	19151	11292	11800	-7964	-8446	7848	P-110	13.5	LT&C	1.34	1.56	DRY	3.19	DRY	3.98

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Coltrane_36_25_W0IP_Fed_Com_1H_Csg_Assumptions_20180523154615.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Coltrane_36_25_W0IP_Fed_Com_1H_Inter_Tapered_String_Diagram_20180523155247.pdf

Casing Design Assumptions and Worksheet(s):

Coltrane_36_25_W0IP_Fed_Com_1H_Csg_Assumptions_20180523154623.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Coltrane_36_25_W0IP_Fed_Com_1H_Csg_Assumptions_20180523154631.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Casing Attachments

Casing ID: 4 String Type: LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Coltrane_36_25_W0IP_Fed_Com_1H_Csg_Assumptions_20180523154639.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	953	630	2.12	12.5	1336	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		953	1145	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	3590	705	2.12	12.5	1495	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		3590	4235	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	5530	4035	4846	75	2.12	12.5	159	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		4846	5530	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	5530	5530	9560	360	2.12	12.5	763	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		9560	12054	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		11303	19151	320	2.97	11.2	950	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI 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: Pason/PVT/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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1145	SPUD MUD	8.6	8.8							
1135	4235	SALT SATURATED	10	10							
4235	1129 2	WATER-BASED MUD	8.6	9.5							
1129 2	1177 4	OIL-BASED MUD	10	12							Mud weight up to 13.0 ppg may be required for shale control. The highest mud weight needed to balance formation is expected to be 12.0 ppg.

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (11,303') to surface.

Will run MWD GR from KOP (11,303') to TD.

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

CNL,DS,GR,MWD,MUDLOG

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7347

Anticipated Surface Pressure: 4751

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Coltrane_36_25_W0IP_Fed_Com_1H_H2S_Plan_20180523163427.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Coltrane_36_25_W0PI_Fed_Com_1H_Dir_Plan_20180523163518.pdf

Coltrane_36_25_W0PI_Fed_Com_1H_Dir_Plot_20180523163525.pdf

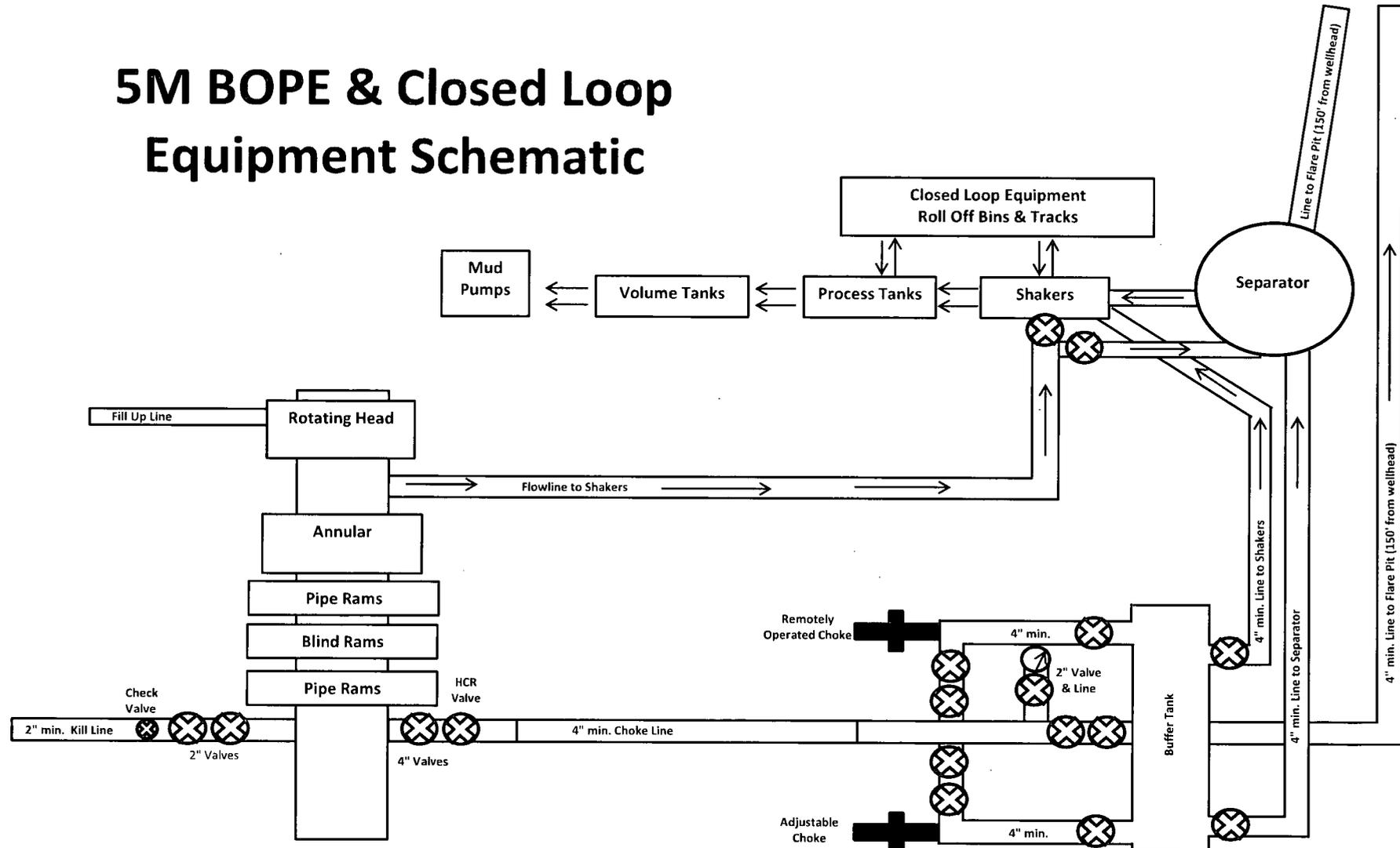
Other proposed operations facets description:

Other proposed operations facets attachment:

Coltrane_36_25_W0IP_Fed_Com_1H_Drlg_Program_20180523163535.docx

Other Variance attachment:

5M BOPE & Closed Loop Equipment Schematic



Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.

Drawing not to scale



GATES E & S NORTH AMERICA, INC.
 134 44TH STREET
 CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: Tim.Cantu@gates.com
WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER

Product Description: 10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	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 :

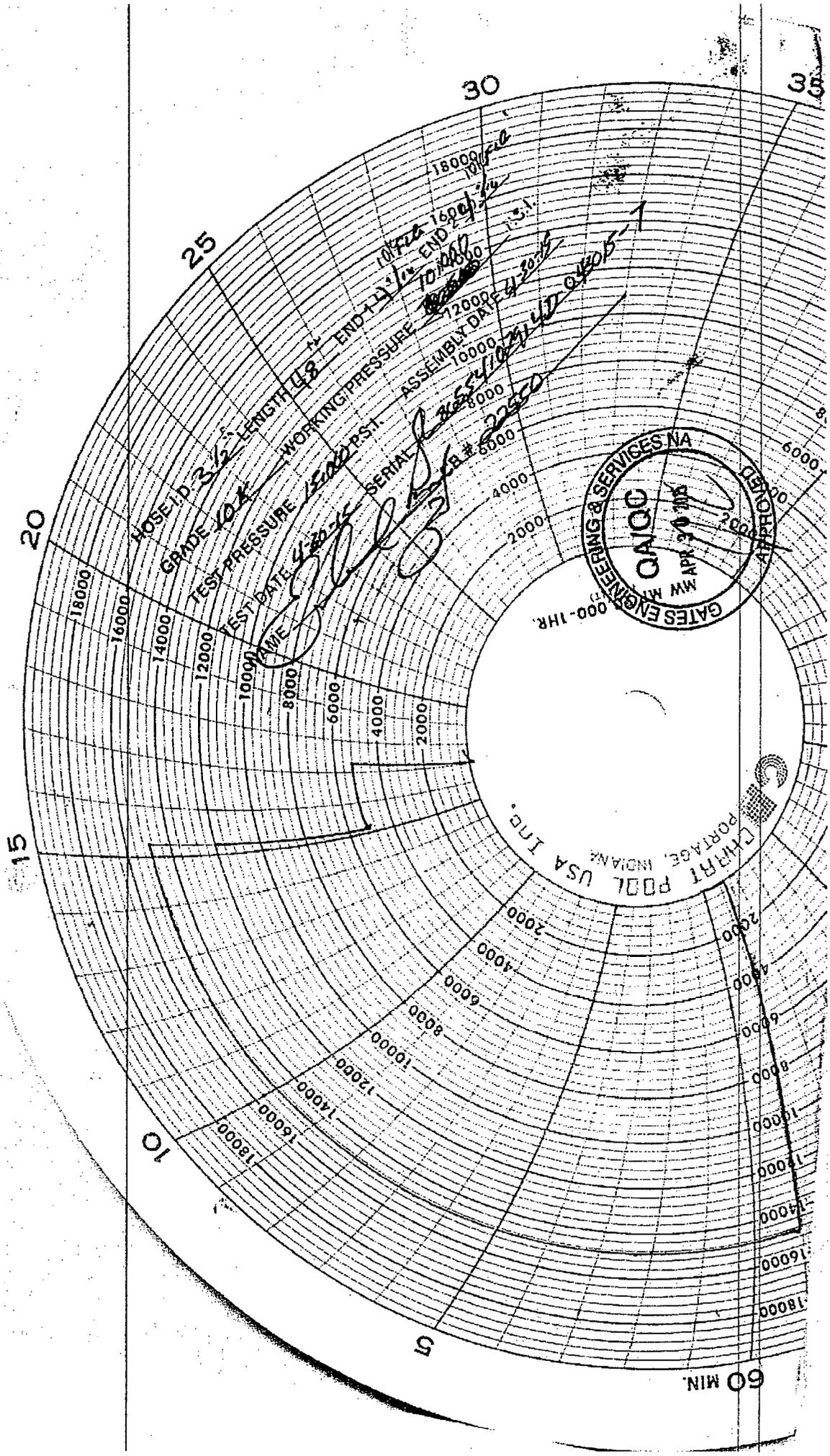
QUALITY
 4/30/2015
Justin Cropper

Production:
 Date :
 Signature :

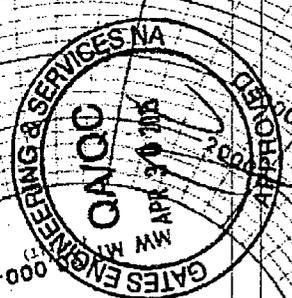
PRODUCTION
 4/30/2015
Justin Cropper

Form PTC - 01 Rev.02





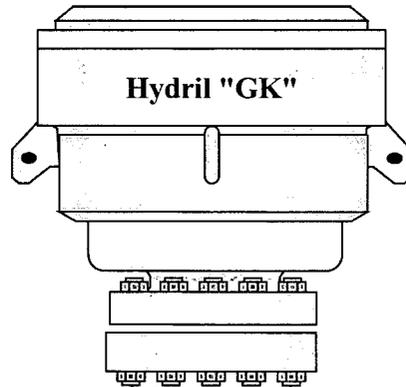
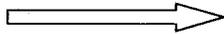
HOSE I.D. 3 1/2
GRADE 10
LENGTH FT. 1500
TEST PRESSURE 1500
WORKING PRESSURE 1500
ASSEMBLY DATE 10000
SERIAL 1500
P.S.T. 1500
TEST RATE 1500
NAME 1500



CHRYSLER POOL USA INC.
PORTAGE, INDIANA

60 MIN.

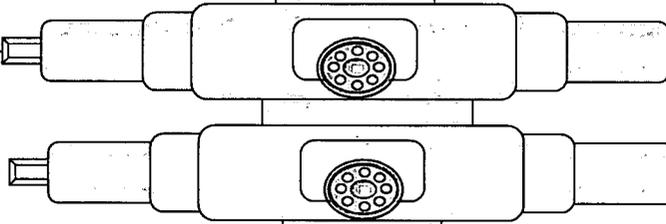
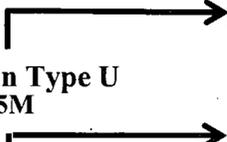
Hydril "GK"
13 5/8" 5M



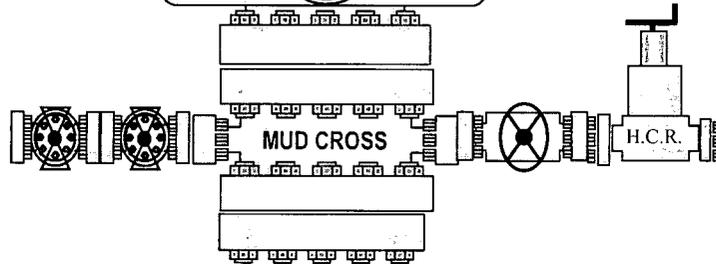
Hydril "GK"

4 1/2" x 5 7/8" VBR

Cameron Type U
13 5/8" 5M



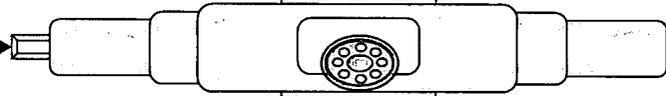
BLIND RAMS



MUD CROSS

H.C.R.

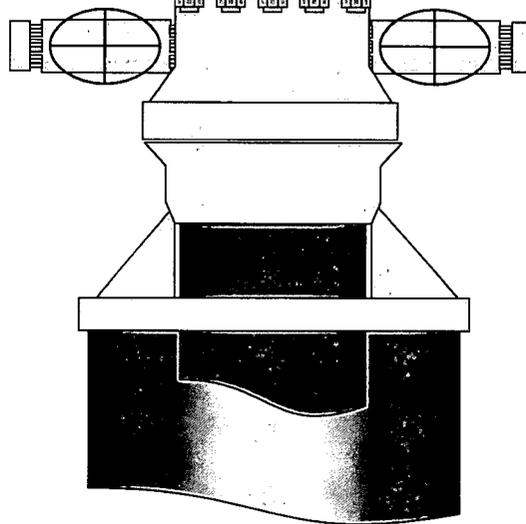
7" RAMS



13 5/8" 5M

13 5/8" 5M

13 5/8" 5M

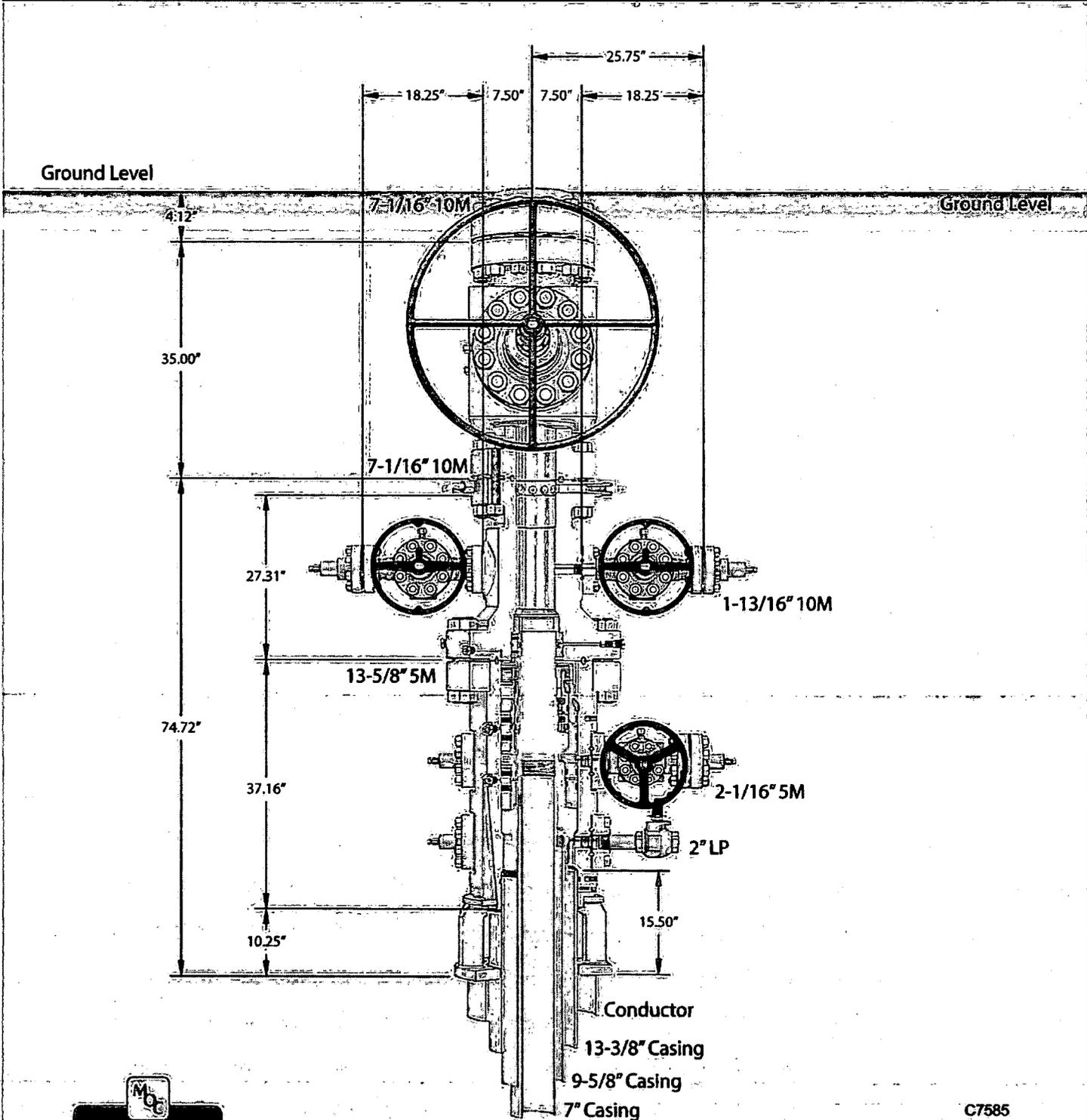




CAMERON

A Schlumberger Company

13-5/8" MN-DS Wellhead System

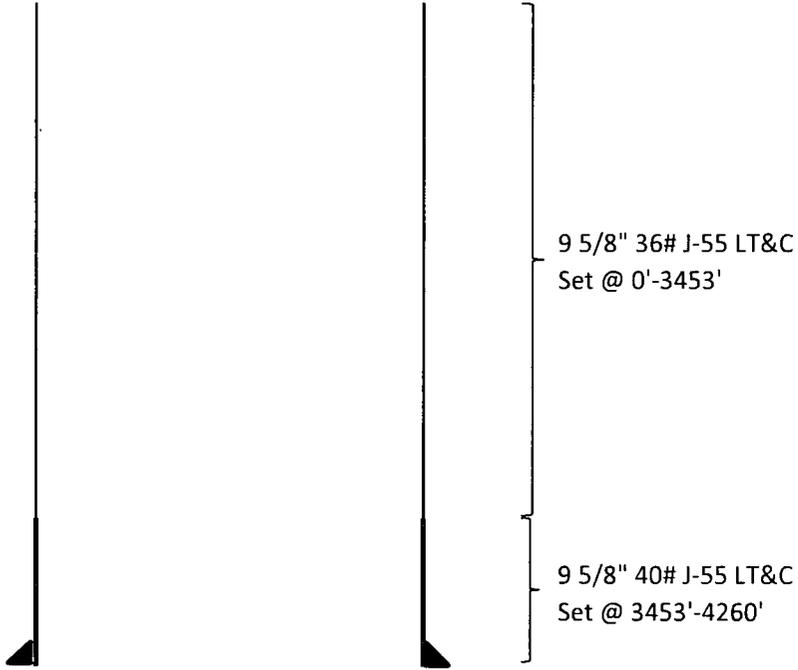


C7585
Rev. 02

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

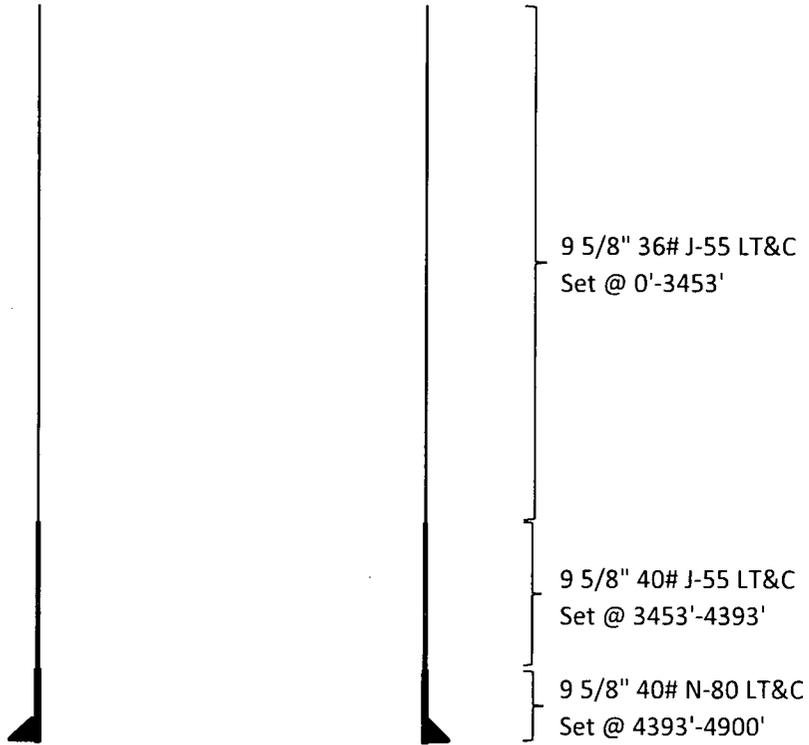
E. J. King, Manager
37" conductor cut-off
7.9

Red Hills West Unit #018H
Intermediate Casing



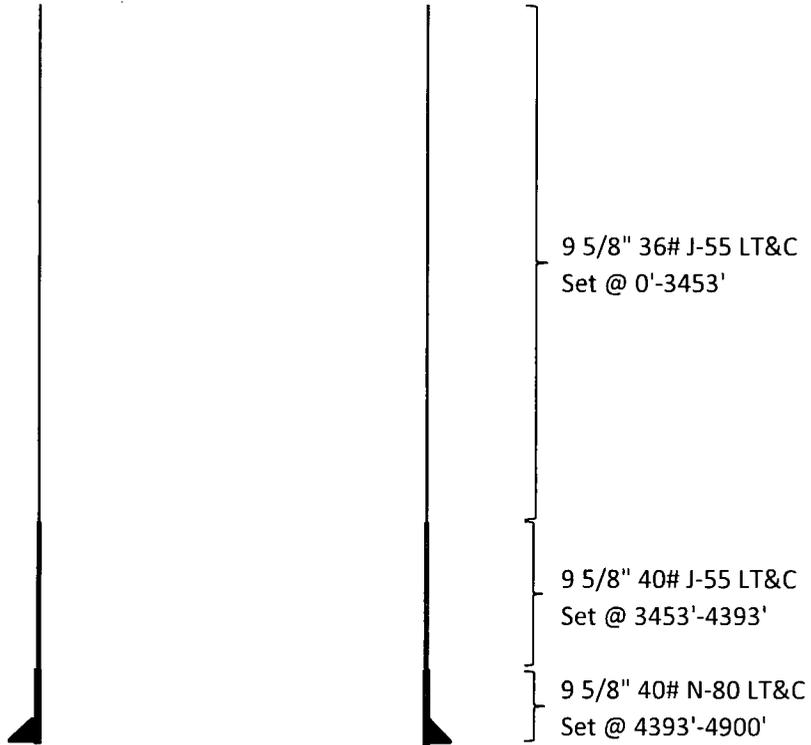
Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	2.89	4.54
40# J-55	1.16	1.78	16.11	19.52

Salado Draw 9 W1DM Fed Com #3H
Intermediate Casing



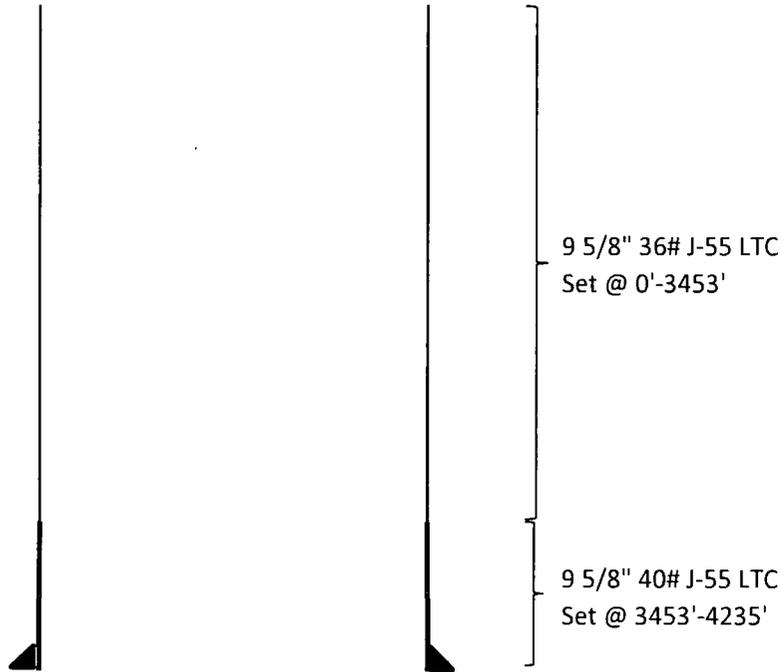
Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	2.49	4.54
40# J-55	1.13	1.73	8.98	16.75
40# N-80	1.21	2.26	36.35	45.18

Salado Draw 9/16 W1BO Fed Com #3H
Intermediate Casing



Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	2.78	4.54
40# J-55	1.13	1.73	8.98	16.75
40# N-80	1.21	2.26	36.35	45.18

Coltrane 36/25 W0IP Fed Com 1H
Intermediate Csg



Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	2.91	3.62
40# J-55	1.17	1.79	16.62	20.14

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	1145'	13.375"	48	H40	STC	1.47	3.30	5.86	9.84
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.91	3.62
12.25"	3453'	4235'	9.625"	40	J55	LTC	1.17	1.79	16.62	20.14
8.75"	0'	12054'	7"	26	HCP110	LTC	1.40	1.78	2.08	2.65
6.125"	11303'	19151'	4.5"	13.5	P110	LTC	1.34	1.56	3.19	3.98
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	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?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
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12.25"	3453'	4235'	9.625"	40	J55	LTC	1.17	1.79	16.62	20.14
8.75"	0'	12054'	7"	26	HCP110	LTC	1.40	1.78	2.08	2.65
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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
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If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
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12.25"	3453'	4235'	9.625"	40	J55	LTC	1.17	1.79	16.62	20.14
8.75"	0'	12054'	7"	26	HCP110	LTC	1.40	1.78	2.08	2.65
6.125"	11303'	19151'	4.5"	13.5	P110	LTC	1.34	1.56	3.19	3.98
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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	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?	
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If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
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12.25"	3453'	4235'	9.625"	40	J55	LTC	1.17	1.79	16.62	20.14
8.75"	0'	12054'	7"	26	HCP110	LTC	1.40	1.78	2.08	2.65
6.125"	11303'	19151'	4.5"	13.5	P110	LTC	1.34	1.56	3.19	3.98
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	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?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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 known 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. Protective Equipment for Essential Personnel

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. Hydrogen Sulfide Protection and Monitoring Equipment
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 Center of Carlsbad	575-492-5000

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2nd Fax	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

Coltrane 36/25 W0PI Fed Com #1H

Sec 36, T25S, R31E

SL: 400' FSL & 410' FEL (36)

BHL: 2310' FSL & 330' FEL (25)

Plan: Design #1

Standard Planning Report

21 May, 2018

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Coltrane 36/25 W0PI Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3328.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3328.0usft (Original Well Elev)
Site:	Coltrane 36/25 W0PI Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T25S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FSL & 330' FEL (25)		
Design:	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Coltrane 36/25 W0PI Fed Com #1H				
Site Position:	Northing:	393,606.00 usft	Latitude:	32.0806392	
From:	Map	Easting:	729,939.00 usft	Longitude:	-103.7243894
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.32 °

Well	Sec 36, T25S, R31E					
Well Position	+N/-S	0.0 usft	Northing:	393,606.00 usft	Latitude:	32.0806392
	+E/-W	0.0 usft	Easting:	729,939.00 usft	Longitude:	-103.7243894
Position Uncertainty	0.0 usft		Wellhead Elevation:	3,328.0 usft	Ground Level:	3,301.0 usft

Wellbore	BHL: 2310' FSL & 330' FEL (25)				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/21/2018	6.79	59.85	47,823

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	0.34	

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	
4,310.0	0.00	0.00	4,310.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,476.9	3.34	168.10	4,476.8	-4.8	1.0	2.00	2.00	0.00	168.10	
11,136.6	3.34	168.10	11,125.2	-384.2	81.0	0.00	0.00	0.00	0.00	
11,303.5	0.00	0.00	11,292.0	-389.0	82.0	2.00	-2.00	0.00	180.00	KOP @ 11292'
12,054.1	89.97	359.71	11,770.0	88.7	79.5	11.99	11.99	0.00	-0.29	
19,151.4	89.97	359.71	11,774.0	7,186.0	43.0	0.00	0.00	0.00	0.00	BHL: 2310' FSL & 330'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Coltrane 36/25 W0PI Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3328.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3328.0usft (Original Well Elev)
Site:	Coltrane 36/25 W0PI Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T25S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FSL & 330' FEL (25)		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
SL: 400' FSL & 410' FEL (36)										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,310.0	0.00	0.00	4,310.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	1.80	168.10	4,400.0	-1.4	0.3	-1.4	2.00	2.00	0.00	
4,476.9	3.34	168.10	4,476.8	-4.8	1.0	-4.8	2.00	2.00	0.00	
4,500.0	3.34	168.10	4,499.9	-6.1	1.3	-6.1	0.00	0.00	0.00	
4,600.0	3.34	168.10	4,599.7	-11.8	2.5	-11.8	0.00	0.00	0.00	
4,700.0	3.34	168.10	4,699.5	-17.5	3.7	-17.4	0.00	0.00	0.00	
4,800.0	3.34	168.10	4,799.4	-23.2	4.9	-23.1	0.00	0.00	0.00	
4,900.0	3.34	168.10	4,899.2	-28.9	6.1	-28.8	0.00	0.00	0.00	
5,000.0	3.34	168.10	4,999.0	-34.6	7.3	-34.5	0.00	0.00	0.00	

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Well:	Sec 36, T25S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FSL & 330' FEL (25)		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	3.34	168.10	5,098.8	-40.3	8.5	-40.2	0.00	0.00	0.00	
5,200.0	3.34	168.10	5,198.7	-46.0	9.7	-45.9	0.00	0.00	0.00	
5,300.0	3.34	168.10	5,298.5	-51.7	10.9	-51.6	0.00	0.00	0.00	
5,400.0	3.34	168.10	5,398.3	-57.4	12.1	-57.3	0.00	0.00	0.00	
5,500.0	3.34	168.10	5,498.2	-63.1	13.3	-63.0	0.00	0.00	0.00	
5,600.0	3.34	168.10	5,598.0	-68.8	14.5	-68.7	0.00	0.00	0.00	
5,700.0	3.34	168.10	5,697.8	-74.5	15.7	-74.4	0.00	0.00	0.00	
5,800.0	3.34	168.10	5,797.7	-80.1	16.9	-80.0	0.00	0.00	0.00	
5,900.0	3.34	168.10	5,897.5	-85.8	18.1	-85.7	0.00	0.00	0.00	
6,000.0	3.34	168.10	5,997.3	-91.5	19.3	-91.4	0.00	0.00	0.00	
6,100.0	3.34	168.10	6,097.2	-97.2	20.5	-97.1	0.00	0.00	0.00	
6,200.0	3.34	168.10	6,197.0	-102.9	21.7	-102.8	0.00	0.00	0.00	
6,300.0	3.34	168.10	6,296.8	-108.6	22.9	-108.5	0.00	0.00	0.00	
6,400.0	3.34	168.10	6,396.6	-114.3	24.1	-114.2	0.00	0.00	0.00	
6,500.0	3.34	168.10	6,496.5	-120.0	25.3	-119.9	0.00	0.00	0.00	
6,600.0	3.34	168.10	6,596.3	-125.7	26.5	-125.6	0.00	0.00	0.00	
6,700.0	3.34	168.10	6,696.1	-131.4	27.7	-131.3	0.00	0.00	0.00	
6,800.0	3.34	168.10	6,796.0	-137.1	28.9	-137.0	0.00	0.00	0.00	
6,900.0	3.34	168.10	6,895.8	-142.8	30.1	-142.6	0.00	0.00	0.00	
7,000.0	3.34	168.10	6,995.6	-148.5	31.3	-148.3	0.00	0.00	0.00	
7,100.0	3.34	168.10	7,095.5	-154.2	32.5	-154.0	0.00	0.00	0.00	
7,200.0	3.34	168.10	7,195.3	-159.9	33.7	-159.7	0.00	0.00	0.00	
7,300.0	3.34	168.10	7,295.1	-165.6	34.9	-165.4	0.00	0.00	0.00	
7,400.0	3.34	168.10	7,394.9	-171.3	36.1	-171.1	0.00	0.00	0.00	
7,500.0	3.34	168.10	7,494.8	-177.0	37.3	-176.8	0.00	0.00	0.00	
7,600.0	3.34	168.10	7,594.6	-182.7	38.5	-182.5	0.00	0.00	0.00	
7,700.0	3.34	168.10	7,694.4	-188.4	39.7	-188.2	0.00	0.00	0.00	
7,800.0	3.34	168.10	7,794.3	-194.1	40.9	-193.9	0.00	0.00	0.00	
7,900.0	3.34	168.10	7,894.1	-199.8	42.1	-199.6	0.00	0.00	0.00	
8,000.0	3.34	168.10	7,993.9	-205.5	43.3	-205.2	0.00	0.00	0.00	
8,100.0	3.34	168.10	8,093.8	-211.2	44.5	-210.9	0.00	0.00	0.00	
8,200.0	3.34	168.10	8,193.6	-216.9	45.7	-216.6	0.00	0.00	0.00	
8,300.0	3.34	168.10	8,293.4	-222.6	46.9	-222.3	0.00	0.00	0.00	
8,400.0	3.34	168.10	8,393.2	-228.3	48.1	-228.0	0.00	0.00	0.00	
8,500.0	3.34	168.10	8,493.1	-234.0	49.3	-233.7	0.00	0.00	0.00	
8,600.0	3.34	168.10	8,592.9	-239.7	50.5	-239.4	0.00	0.00	0.00	
8,700.0	3.34	168.10	8,692.7	-245.4	51.7	-245.1	0.00	0.00	0.00	
8,800.0	3.34	168.10	8,792.6	-251.1	52.9	-250.8	0.00	0.00	0.00	
8,900.0	3.34	168.10	8,892.4	-256.8	54.1	-256.5	0.00	0.00	0.00	
9,000.0	3.34	168.10	8,992.2	-262.5	55.3	-262.2	0.00	0.00	0.00	
9,100.0	3.34	168.10	9,092.1	-268.2	56.5	-267.9	0.00	0.00	0.00	
9,200.0	3.34	168.10	9,191.9	-273.9	57.7	-273.5	0.00	0.00	0.00	
9,300.0	3.34	168.10	9,291.7	-279.6	58.9	-279.2	0.00	0.00	0.00	
9,400.0	3.34	168.10	9,391.6	-285.3	60.1	-284.9	0.00	0.00	0.00	
9,500.0	3.34	168.10	9,491.4	-291.0	61.3	-290.6	0.00	0.00	0.00	
9,600.0	3.34	168.10	9,591.2	-296.7	62.5	-296.3	0.00	0.00	0.00	
9,700.0	3.34	168.10	9,691.0	-302.4	63.7	-302.0	0.00	0.00	0.00	
9,800.0	3.34	168.10	9,790.9	-308.1	64.9	-307.7	0.00	0.00	0.00	
9,900.0	3.34	168.10	9,890.7	-313.8	66.1	-313.4	0.00	0.00	0.00	
10,000.0	3.34	168.10	9,990.5	-319.5	67.3	-319.1	0.00	0.00	0.00	
10,100.0	3.34	168.10	10,090.4	-325.2	68.5	-324.8	0.00	0.00	0.00	
10,200.0	3.34	168.10	10,190.2	-330.9	69.7	-330.5	0.00	0.00	0.00	
10,300.0	3.34	168.10	10,290.0	-336.6	70.9	-336.1	0.00	0.00	0.00	
10,400.0	3.34	168.10	10,389.9	-342.3	72.1	-341.8	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Coltrane 36/25 WOPi Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3328.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3328.0usft (Original Well Elev)
Site:	Coltrane 36/25 WOPi Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T25S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FSL & 330' FEL (25)		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,500.0	3.34	168.10	10,489.7	-348.0	73.4	-347.5	0.00	0.00	0.00	
10,600.0	3.34	168.10	10,589.5	-353.7	74.6	-353.2	0.00	0.00	0.00	
10,700.0	3.34	168.10	10,689.3	-359.4	75.8	-358.9	0.00	0.00	0.00	
10,800.0	3.34	168.10	10,789.2	-365.1	77.0	-364.6	0.00	0.00	0.00	
10,900.0	3.34	168.10	10,889.0	-370.8	78.2	-370.3	0.00	0.00	0.00	
11,000.0	3.34	168.10	10,988.8	-376.5	79.4	-376.0	0.00	0.00	0.00	
11,100.0	3.34	168.10	11,088.7	-382.2	80.6	-381.7	0.00	0.00	0.00	
11,136.6	3.34	168.10	11,125.2	-384.2	81.0	-383.8	0.00	0.00	0.00	
11,200.0	2.07	168.10	11,188.5	-387.2	81.6	-386.7	2.00	-2.00	0.00	
11,300.0	0.07	168.10	11,288.5	-389.0	82.0	-388.5	2.00	-2.00	0.00	
11,303.5	0.00	0.00	11,292.0	-389.0	82.0	-388.5	2.00	-2.00	0.00	
KOP @ 11292'										
11,400.0	11.57	359.71	11,387.9	-379.3	82.0	-378.8	11.99	11.99	0.00	
11,500.0	23.55	359.71	11,483.0	-349.2	81.8	-348.7	11.99	11.99	0.00	
11,600.0	35.54	359.71	11,569.9	-299.9	81.5	-299.5	11.99	11.99	0.00	
11,700.0	47.53	359.71	11,644.6	-233.8	81.2	-233.3	11.99	11.99	0.00	
11,800.0	59.51	359.71	11,703.9	-153.5	80.8	-153.0	11.99	11.99	0.00	
11,892.3	70.57	359.71	11,742.8	-70.0	80.4	-69.5	11.99	11.99	0.00	
FTP: 330' FSL & 330' FEL (36)										
11,900.0	71.50	359.71	11,745.3	-62.7	80.3	-62.2	11.99	11.99	0.00	
12,000.0	83.49	359.71	11,766.9	34.8	79.8	35.3	11.99	11.99	0.00	
12,054.1	89.97	359.71	11,770.0	88.7	79.5	89.2	11.99	11.99	0.00	
LP: 489' FSL & 330' FEL (36)										
12,100.0	89.97	359.71	11,770.0	134.7	79.3	135.1	0.00	0.00	0.00	
12,200.0	89.97	359.71	11,770.1	234.7	78.8	235.1	0.00	0.00	0.00	
12,300.0	89.97	359.71	11,770.1	334.7	78.3	335.1	0.00	0.00	0.00	
12,400.0	89.97	359.71	11,770.2	434.7	77.8	435.1	0.00	0.00	0.00	
12,500.0	89.97	359.71	11,770.3	534.7	77.2	535.1	0.00	0.00	0.00	
12,600.0	89.97	359.71	11,770.3	634.7	76.7	635.1	0.00	0.00	0.00	
12,700.0	89.97	359.71	11,770.4	734.7	76.2	735.1	0.00	0.00	0.00	
12,800.0	89.97	359.71	11,770.4	834.7	75.7	835.1	0.00	0.00	0.00	
12,900.0	89.97	359.71	11,770.5	934.7	75.2	935.1	0.00	0.00	0.00	
13,000.0	89.97	359.71	11,770.5	1,034.6	74.7	1,035.1	0.00	0.00	0.00	
13,100.0	89.97	359.71	11,770.6	1,134.6	74.2	1,135.1	0.00	0.00	0.00	
13,200.0	89.97	359.71	11,770.6	1,234.6	73.6	1,235.1	0.00	0.00	0.00	
13,300.0	89.97	359.71	11,770.7	1,334.6	73.1	1,335.1	0.00	0.00	0.00	
13,400.0	89.97	359.71	11,770.8	1,434.6	72.6	1,435.1	0.00	0.00	0.00	
13,500.0	89.97	359.71	11,770.8	1,534.6	72.1	1,535.0	0.00	0.00	0.00	
13,600.0	89.97	359.71	11,770.9	1,634.6	71.6	1,635.0	0.00	0.00	0.00	
13,700.0	89.97	359.71	11,770.9	1,734.6	71.1	1,735.0	0.00	0.00	0.00	
13,800.0	89.97	359.71	11,771.0	1,834.6	70.6	1,835.0	0.00	0.00	0.00	
13,900.0	89.97	359.71	11,771.0	1,934.6	70.0	1,935.0	0.00	0.00	0.00	
14,000.0	89.97	359.71	11,771.1	2,034.6	69.5	2,035.0	0.00	0.00	0.00	
14,100.0	89.97	359.71	11,771.2	2,134.6	69.0	2,135.0	0.00	0.00	0.00	
14,200.0	89.97	359.71	11,771.2	2,234.6	68.5	2,235.0	0.00	0.00	0.00	
14,300.0	89.97	359.71	11,771.3	2,334.6	68.0	2,335.0	0.00	0.00	0.00	
14,400.0	89.97	359.71	11,771.3	2,434.6	67.5	2,435.0	0.00	0.00	0.00	
14,500.0	89.97	359.71	11,771.4	2,534.6	66.9	2,535.0	0.00	0.00	0.00	
14,600.0	89.97	359.71	11,771.4	2,634.6	66.4	2,635.0	0.00	0.00	0.00	
14,700.0	89.97	359.71	11,771.5	2,734.6	65.9	2,735.0	0.00	0.00	0.00	
14,800.0	89.97	359.71	11,771.5	2,834.6	65.4	2,835.0	0.00	0.00	0.00	
14,900.0	89.97	359.71	11,771.6	2,934.6	64.9	2,935.0	0.00	0.00	0.00	
15,000.0	89.97	359.71	11,771.7	3,034.6	64.4	3,035.0	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Coltrane 36/25 WOPI Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3328.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3328.0usft (Original Well Elev)
Site:	Coltrane 36/25 WOPI Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T25S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FSL & 330' FEL (25)		
Design:	Design #1		

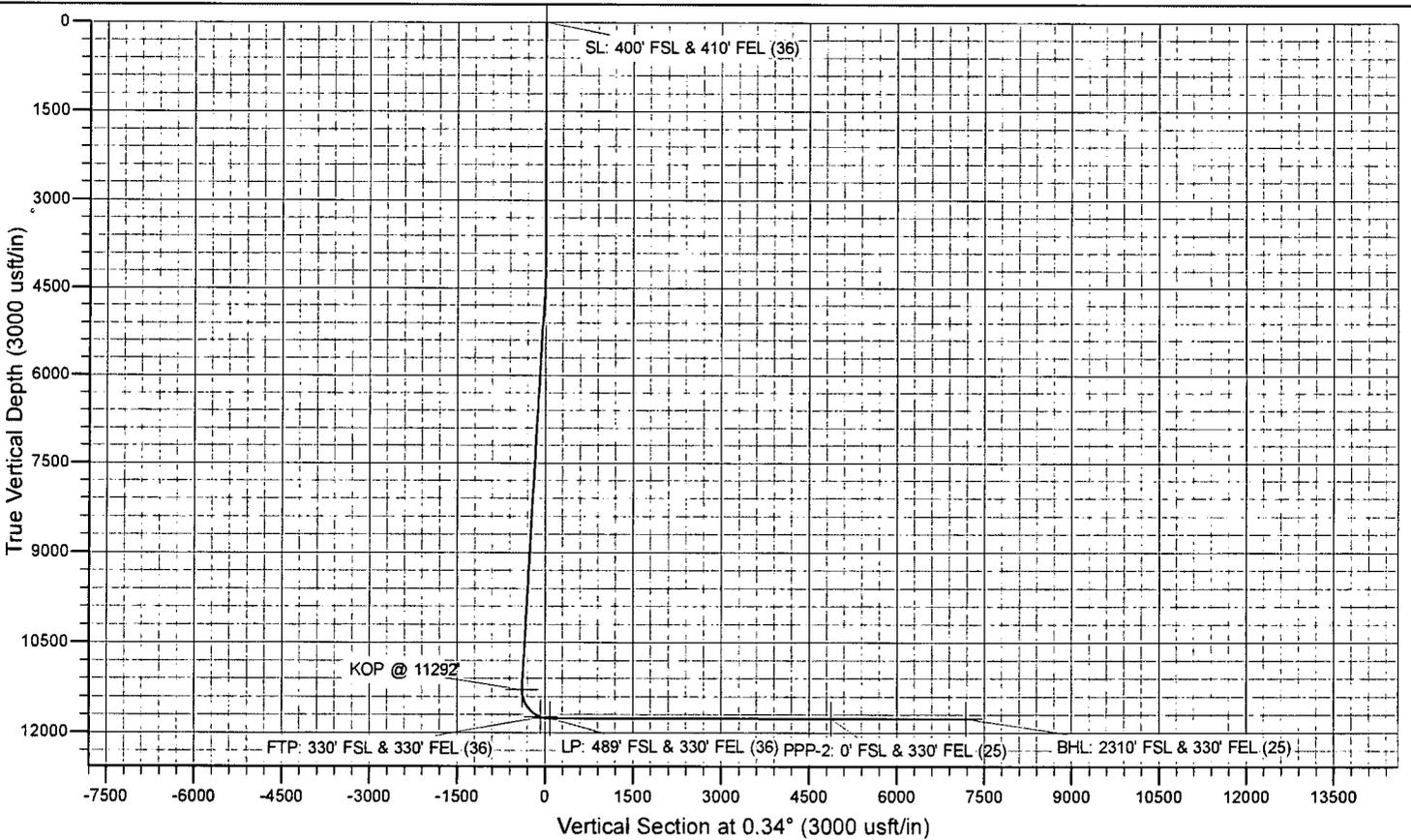
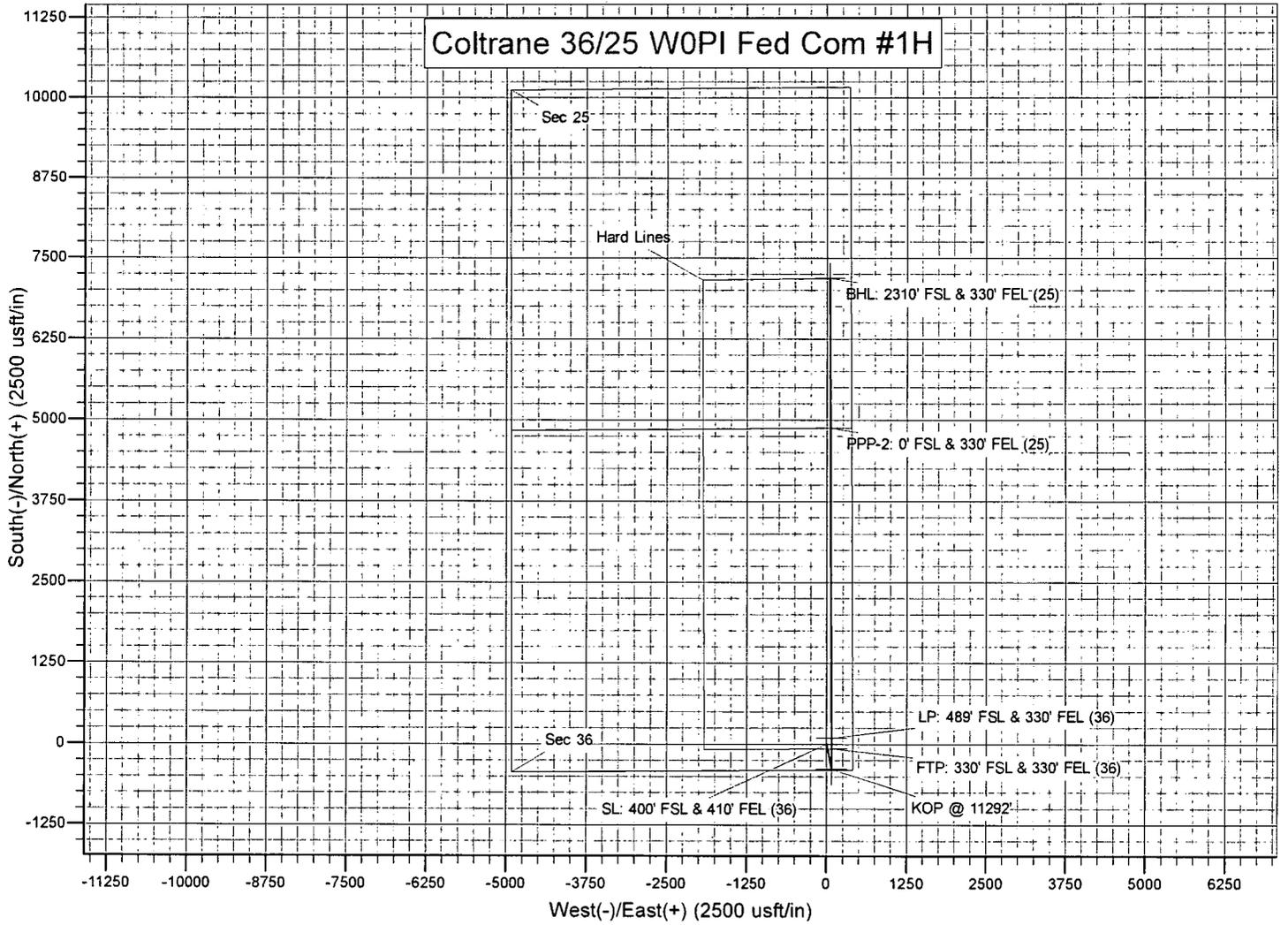
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,100.0	89.97	359.71	11,771.7	3,134.6	63.9	3,134.9	0.00	0.00	0.00	
15,200.0	89.97	359.71	11,771.8	3,234.6	63.3	3,234.9	0.00	0.00	0.00	
15,300.0	89.97	359.71	11,771.8	3,334.6	62.8	3,334.9	0.00	0.00	0.00	
15,400.0	89.97	359.71	11,771.9	3,434.6	62.3	3,434.9	0.00	0.00	0.00	
15,500.0	89.97	359.71	11,771.9	3,534.6	61.8	3,534.9	0.00	0.00	0.00	
15,600.0	89.97	359.71	11,772.0	3,634.6	61.3	3,634.9	0.00	0.00	0.00	
15,700.0	89.97	359.71	11,772.1	3,734.6	60.8	3,734.9	0.00	0.00	0.00	
15,800.0	89.97	359.71	11,772.1	3,834.6	60.3	3,834.9	0.00	0.00	0.00	
15,900.0	89.97	359.71	11,772.2	3,934.6	59.7	3,934.9	0.00	0.00	0.00	
16,000.0	89.97	359.71	11,772.2	4,034.6	59.2	4,034.9	0.00	0.00	0.00	
16,100.0	89.97	359.71	11,772.3	4,134.6	58.7	4,134.9	0.00	0.00	0.00	
16,200.0	89.97	359.71	11,772.3	4,234.6	58.2	4,234.9	0.00	0.00	0.00	
16,300.0	89.97	359.71	11,772.4	4,334.6	57.7	4,334.9	0.00	0.00	0.00	
16,400.0	89.97	359.71	11,772.4	4,434.6	57.2	4,434.9	0.00	0.00	0.00	
16,500.0	89.97	359.71	11,772.5	4,534.6	56.7	4,534.9	0.00	0.00	0.00	
16,600.0	89.97	359.71	11,772.6	4,634.6	56.1	4,634.9	0.00	0.00	0.00	
16,700.0	89.97	359.71	11,772.6	4,734.6	55.6	4,734.8	0.00	0.00	0.00	
16,800.0	89.97	359.71	11,772.7	4,834.6	55.1	4,834.8	0.00	0.00	0.00	
16,841.4	89.97	359.71	11,772.7	4,876.0	54.9	4,876.2	0.00	0.00	0.00	
PPP-2: 0' FSL & 330' FEL (25)										
16,900.0	89.97	359.71	11,772.7	4,934.6	54.6	4,934.8	0.00	0.00	0.00	
17,000.0	89.97	359.71	11,772.8	5,034.6	54.1	5,034.8	0.00	0.00	0.00	
17,100.0	89.97	359.71	11,772.8	5,134.6	53.6	5,134.8	0.00	0.00	0.00	
17,200.0	89.97	359.71	11,772.9	5,234.6	53.0	5,234.8	0.00	0.00	0.00	
17,300.0	89.97	359.71	11,773.0	5,334.6	52.5	5,334.8	0.00	0.00	0.00	
17,400.0	89.97	359.71	11,773.0	5,434.6	52.0	5,434.8	0.00	0.00	0.00	
17,500.0	89.97	359.71	11,773.1	5,534.6	51.5	5,534.8	0.00	0.00	0.00	
17,600.0	89.97	359.71	11,773.1	5,634.6	51.0	5,634.8	0.00	0.00	0.00	
17,700.0	89.97	359.71	11,773.2	5,734.6	50.5	5,734.8	0.00	0.00	0.00	
17,800.0	89.97	359.71	11,773.2	5,834.6	50.0	5,834.8	0.00	0.00	0.00	
17,900.0	89.97	359.71	11,773.3	5,934.6	49.4	5,934.8	0.00	0.00	0.00	
18,000.0	89.97	359.71	11,773.4	6,034.6	48.9	6,034.8	0.00	0.00	0.00	
18,100.0	89.97	359.71	11,773.4	6,134.6	48.4	6,134.8	0.00	0.00	0.00	
18,200.0	89.97	359.71	11,773.5	6,234.6	47.9	6,234.8	0.00	0.00	0.00	
18,300.0	89.97	359.71	11,773.5	6,334.6	47.4	6,334.7	0.00	0.00	0.00	
18,400.0	89.97	359.71	11,773.6	6,434.6	46.9	6,434.7	0.00	0.00	0.00	
18,500.0	89.97	359.71	11,773.6	6,534.6	46.4	6,534.7	0.00	0.00	0.00	
18,600.0	89.97	359.71	11,773.7	6,634.6	45.8	6,634.7	0.00	0.00	0.00	
18,700.0	89.97	359.71	11,773.7	6,734.6	45.3	6,734.7	0.00	0.00	0.00	
18,800.0	89.97	359.71	11,773.8	6,834.6	44.8	6,834.7	0.00	0.00	0.00	
18,900.0	89.97	359.71	11,773.9	6,934.6	44.3	6,934.7	0.00	0.00	0.00	
19,000.0	89.97	359.71	11,773.9	7,034.6	43.8	7,034.7	0.00	0.00	0.00	
19,100.0	89.97	359.71	11,774.0	7,134.6	43.3	7,134.7	0.00	0.00	0.00	
19,151.4	89.97	359.71	11,774.0	7,186.0	43.0	7,186.1	0.00	0.00	0.00	
BHL: 2310' FSL & 330' FEL (25)										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Coltrane 36/25 W0PI Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3328.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3328.0usft (Original Well Elev)
Site:	Coltrane 36/25 W0PI Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T25S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FSL & 330' FEL (25)		
Design:	Design #1		

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
- Shape										
SL: 400' FSL & 410' FEL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	393,606.00	729,939.00	32.0806392	-103.7243894	
KOP @ 11292' - plan hits target center - Point	0.00	0.00	11,292.0	-389.0	82.0	393,217.00	730,021.00	32.0795687	-103.7241318	
FTP: 330' FSL & 330' FE - plan hits target center - Point	0.00	0.00	11,742.8	-70.0	80.4	393,536.00	730,019.35	32.0804456	-103.7241313	
LP: 489' FSL & 330' FEL - plan hits target center - Point	0.00	0.00	11,770.0	88.7	79.5	393,694.72	730,018.54	32.0808819	-103.7241310	
PPP-2: 0' FSL & 330' FE - plan hits target center - Point	0.00	0.00	11,772.7	4,876.0	54.9	398,482.00	729,993.89	32.0940416	-103.7241233	
BHL: 2310' FSL & 330' F - plan hits target center - Point	0.00	0.00	11,774.0	7,186.0	43.0	400,792.00	729,982.00	32.1003915	-103.7241195	

Coltrane 36/25 W0PI Fed Com #1H



Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

1. Geologic Formations

TVD of target	11774'	Pilot hole depth	NA
MD at TD:	19151'	Deepest expected fresh water:	300'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	1070		
Top of Salt	1230		
Base of Salt	4140		
Yates			
Seven Rivers			
Queen			
Delaware	4310	Oil/Gas	
Manzanita	5530	Oil/Gas	
Brushy Canyon	7050	Oil/Gas	
Bone Spring	8330	Oil/Gas	
1 st Bone Spring Sand	9410	Oil/Gas	
2 nd Bone Spring Sand	10100	Oil/Gas	
3 rd Bone Spring Sand	11210	Oil/Gas	
Abo			
Wolfcamp	11640	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	1145'	13.375"	48	H40	STC	1.47	3.30	5.86	9.84
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.91	3.62
12.25"	3453'	4235'	9.625"	40	J55	LTC	1.17	1.79	16.62	20.14
8.75"	0'	12054'	7"	26	HCP110	LTC	1.40	1.78	2.08	2.65
6.125"	11303'	19151'	4.5"	13.5	P110	LTC	1.34	1.56	3.19	3.98
BLM Minimum Safety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet						

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

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

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

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?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	630	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	705	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod. Stg 1	360	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
ECP/DV Tool @ 5530'						
Prod. Stg 2	75	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	320	11.2	2.97	18	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4035'	25%
Liner	11303'	25%

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

3. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type		Tested to:
12-1/4"	13-5/8"	5M	Annular	X	2500#
			Blind Ram	X	5000#
			Pipe Ram	X	
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

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. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
---	--

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?
Y	<p>A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.</p> <ul style="list-style-type: none"> Provide description here: See attached schematic. 	

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	1145'	FW Gel	8.6-8.8	28-34	N/C
1145'	4235'	Saturated Brine	10.0	28-34	N/C
4235'	11303'	Cut Brine	8.6-9.	28-34	N/C
11303'	19151'	OBM	10.0-12.0	30-40	<10cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. Mud weight up to 13.0 ppg may be required for shale control. The highest mud weight needed to balance formation is expected to be 12.0 ppg.

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

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (11303') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H
Sec 36, T25S, R31E
SL: 400' FSL & 410' FEL (36)
BHL: 2310' FSL & 330' FEL (25)

Additional logs planned		Interval
X	Gamma Ray	11303' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7347 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
	H2S is present
X	H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe.

Will be pre-setting casing? If yes, describe.

Attachments

Mewbourne Oil Company, Coltrane 36/25 W0IP Fed Com #1H

Sec 36, T25S, R31E

SL: 400' FSL & 410' FEL (36)

BHL: 2310' FSL & 330' FEL (25)

Directional Plan

Other, describe



APD ID: 10400030357	Submission Date: 05/24/2018	Highlighted data reflects the most recent changes Show Final Text
Operator Name: MEWBOURNE OIL COMPANY		
Well Name: COLTRANE 36/25 W0PI FED COM	Well Number: 1H	
Well Type: CONVENTIONAL GAS WELL	Well Work Type: Drill	

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Coltrane36_25W0PIFedCom1H_existingroadmap_20180517141852.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Coltrane36_25W0PIFedCom1H_existingwellmap_20180517141927.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Battery will be on the north side of location

Production Facilities map:

Coltrane36_25W0PIFedCom1H_productionfacilitymap_20180517141952.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: CAMP USE, DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING

Water source type: IRRIGATION

Describe type:

Source longitude: -103.433784

Source latitude: 32.42423

Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: FEDERAL

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 1940

Source volume (acre-feet): 0.2500526

Source volume (gal): 81480

Water source and transportation map:

Coltrane36_25W0PIFedCom1H_watersourceandtransmap_20180517142021.pdf

Water source comments: Both sources shown on same map

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche

Construction Materials source location attachment:

Coltrane36_25W0PIFedCom1H_calichesourceandtransmap_20180517142102.pdf

Section 7 - Methods for Handling Waste

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 containmant attachment:

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

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.

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

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

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

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

WCuttings area liner

Cuttings area liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Coltrane36_25W0PIFedCom1H_wellsitelayout_20180517142121.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: COLTRANE 36/25 PI FED COM

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Wellpad long term disturbance (acres): 3.675

Wellpad short term disturbance (acres): 0.275

Access road long term disturbance (acres): 0

Access road short term disturbance (acres): 0

Pipeline long term disturbance (acres): 2.9834712E-7

Pipeline short term disturbance (acres): 2.9834712E-7

Other long term disturbance (acres): 1.205

Other short term disturbance (acres): 1.205

Total long term disturbance: 4.88

Total short term disturbance: 1.4800003

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

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

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

Soil treatment: NA

Existing Vegetation at the well pad: Various brush & grasses

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Various brush & grasses

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: NA

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: NA

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
-----------	-------------

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Bradley

Last Name: Bishop

Phone: (575)393-5905

Email: bbishop@mewbourne.com

Seedbed prep: Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed BMP: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Seed method: drilling or broadcasting seed over entire reclaimed area.

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: NA

Weed treatment plan attachment:

Monitoring plan description: vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.

Monitoring plan attachment:

Success standards: regrowth within 1 full growing season of reclamation.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: MAY 08 2018 Met w/RRC Surveying & Paul Murphy (BLM). Staked location @ 400' FSL & 410' FEL, Sec 36, T25S, R31E, Eddy Co. NM. This is a drillable location. Pad will be 400' x 430'. Battery will be on North side of location. No new road access road required. Reclaim 60' on east edge of well pad. (BCB) MAY 11 2018 Elevation @ 3301'. GPS: 32.08063920, -103.72439016, NAD 83.

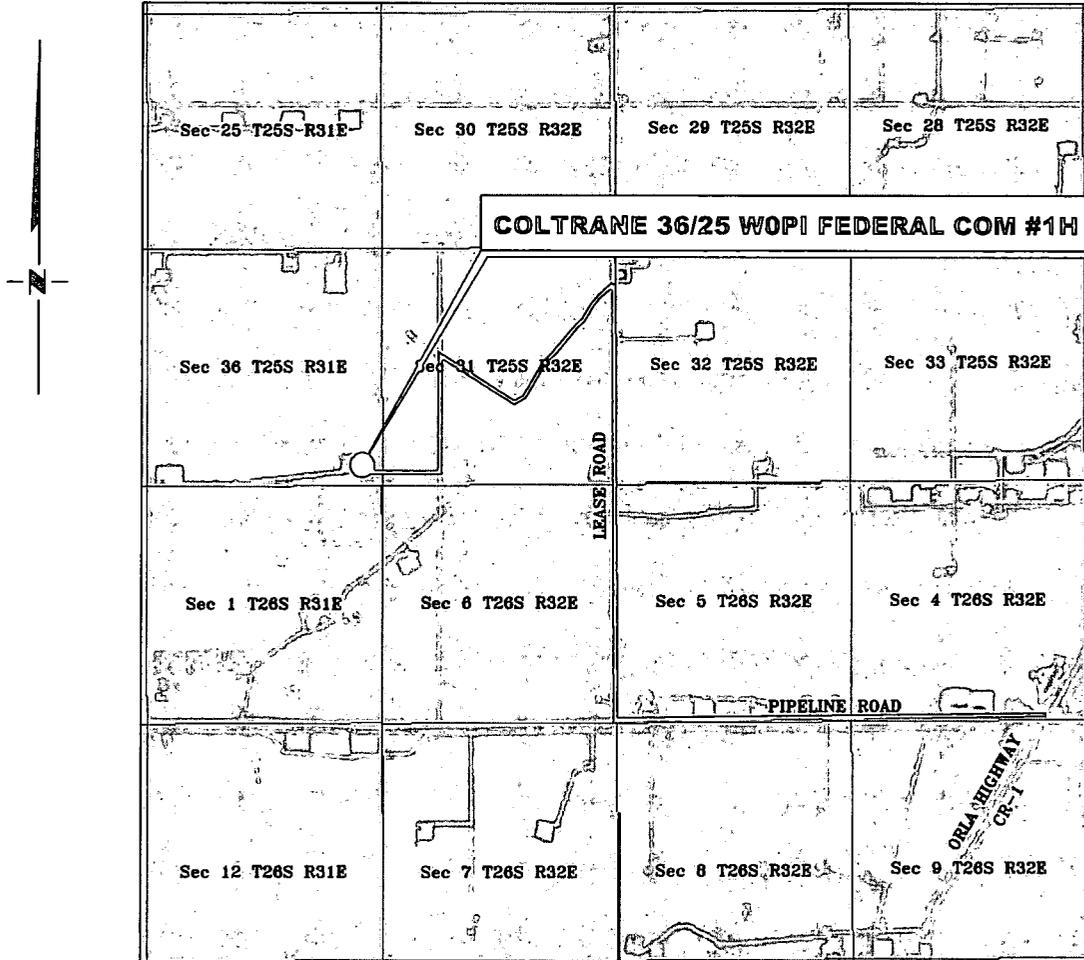
Other SUPO Attachment

Coltrane36_25W0PIFedCom1H_gascaptureplan_20180517142222.pdf

Coltrane36_25W0PIFedCom1H_interimreclamationdiagram_20180517142238.pdf

VICINITY MAP

NOT TO SCALE



*SECTION 36, TWP. 25 SOUTH, RGE. 31 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO*

OPERATOR: Mewbourne Oil Company LOCATION: 400' FSL & 410' FEL
 LEASE: Coltrane 36/25 WOPI Federal Com ELEVATION: 3301'
 WELL NO.: 1H

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NO.	REVISION	DATE
JOB NO.: LS1804488		
DWG. NO.: 1804488VM		

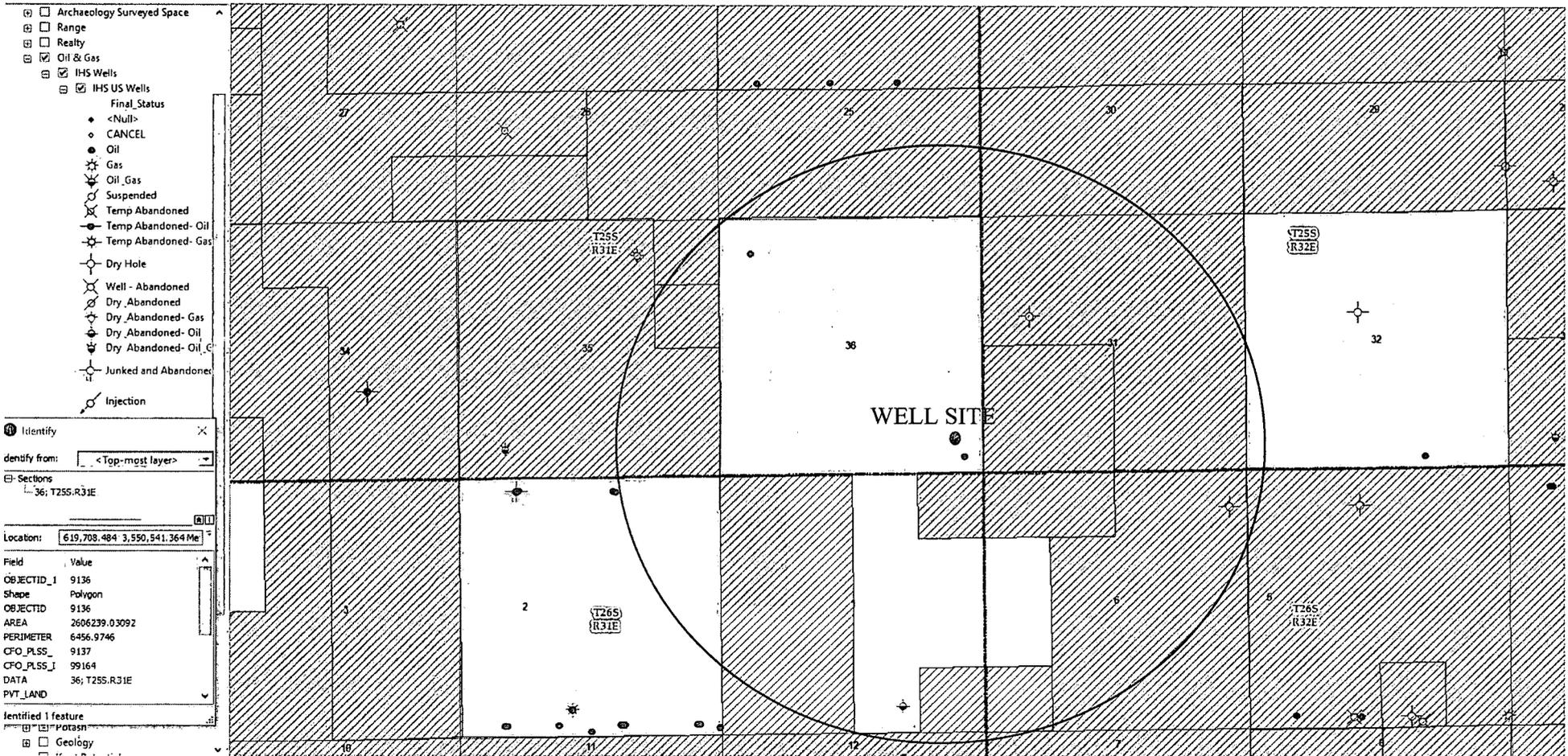
RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

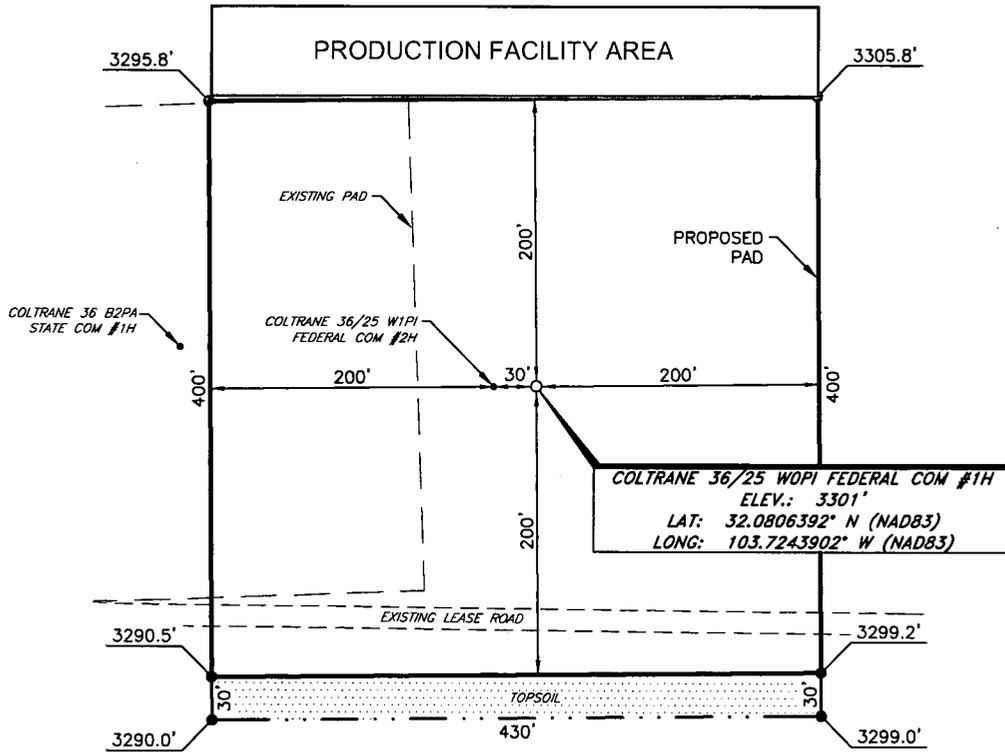
SCALE: N. T. S.
DATE: 5-9-18
SURVEYED BY: ML/TF
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1

EXISTING WELL MAP

COLTRANE 36/25 W0PI FED COM 1H



**MEWBOURNE OIL COMPANY
COLTRANE 36/25 WOPI FEDERAL COM #1H
(400' FSL & 410' FEL)
SECTION 36, T25S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DIRECTIONS TO LOCATION

From the intersection of CR-1 (Orla Hwy) & Pipeline road;
Go West on Pipeline Rd. approx. 1.9 miles to a lease road on the right;
Turn right and go North on lease road approx. 1.9 miles to a lease road on the left;
Turn left and go Southwest approx. 0.7 miles to a lease road on the right;
Turn right and go Northwest approx. 0.4 miles to a lease road on the left;
Turn left and go South approx. 0.5 miles to a lease road on the right;
Turn right and go West approx. 0.3 miles to location on the right.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680



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SCALE: 1" = 100'
0 50 100
BEARINGS ARE
NAD 83 GRID - NM EAST
DISTANCES ARE GROUND

NO.	REVISION	DATE
JOB NO.: LS1804488		
DWG. NO.: 1804488PAD		

RRC

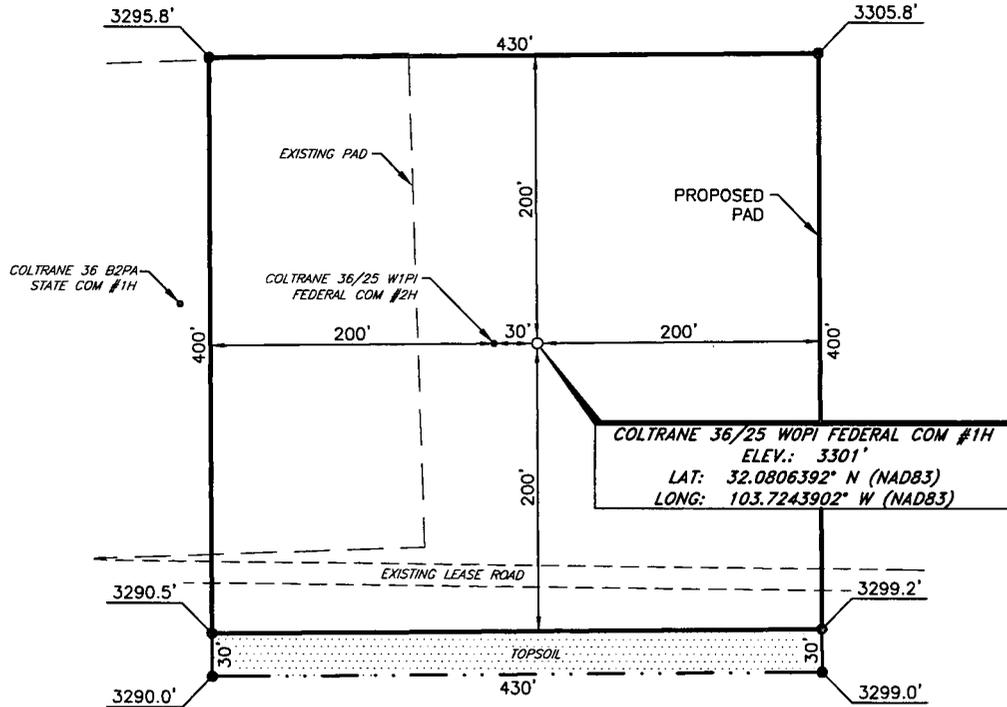
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SCALE: 1" = 100'
DATE: 5-9-18
SURVEYED BY: ML/TF
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1





**MEWBOURNE OIL COMPANY
COLTRANE 36/25 WOPI FEDERAL COM #1H
(400' FSL & 410' FEL)
SECTION 36, T25S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DIRECTIONS TO LOCATION

*From the intersection of CR-1 (Orla Hwy) & Pipeline road;
Go West on Pipeline Rd. approx. 1.9 miles to a lease road on the right;
Turn right and go North on lease road approx. 1.9 miles to a lease road on the left;
Turn left and go Southwest approx. 0.7 miles to a lease road on the right;
Turn right and go Northwest approx. 0.4 miles to a lease road on the left;
Turn left and go South approx. 0.5 miles to a lease road on the right;
Turn right and go West approx. 0.3 miles to location on the right.*

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

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Robert M. Howett NM PS 19680



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SCALE: 1" = 100'
0 50 100
BEARINGS ARE
NAD 83 GRID - NM EAST
DISTANCES ARE GROUND

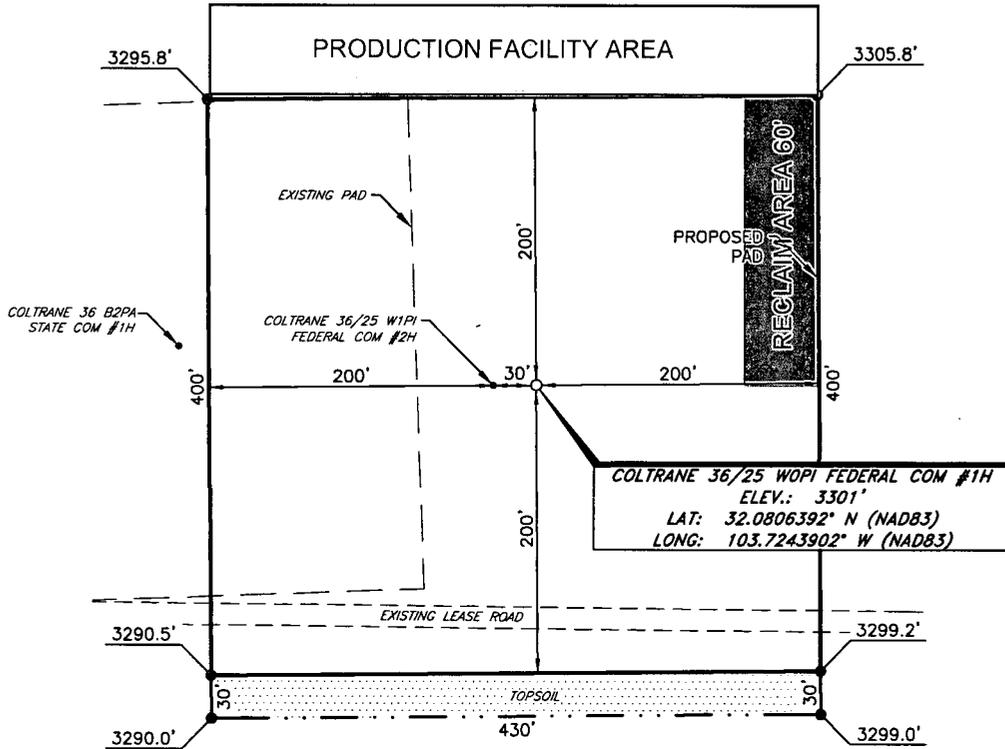
NO.	REVISION	DATE
JOB NO.: LS1804488		
DWG. NO.: 1804488PAD		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 5-9-18
SURVEYED BY: ML/TF
DRAWN BY: CA
APPROVED BY: RMH
SHEET: 1 OF 1

**MEWBOURNE OIL COMPANY
COLTRANE 36/25 WOPI FEDERAL COM #1H
(400' FSL & 410' FEL)
SECTION 36, T25S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DIRECTIONS TO LOCATION

From the intersection of CR-1 (Orla Hwy) & Pipeline road;
 Go West on Pipeline Rd. approx. 1.9 miles to a lease road on the right;
 Turn right and go North on lease road approx. 1.9 miles to a lease road on the left;
 Turn left and go Southwest approx. 0.7 miles to a lease road on the right;
 Turn right and go Northwest approx. 0.4 miles to a lease road on the left;
 Turn left and go South approx. 0.5 miles to a lease road on the right;
 Turn right and go West approx. 0.3 miles to location on the right.



SCALE: 1" = 100'
 0 50 100
 BEARINGS ARE
 NAD 83 GRID - NM EAST
 DISTANCES ARE GROUND

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
 Robert M. Howett NM PS 19680



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NO.	REVISION	DATE
JOB NO.: LS1804488		
DWG. NO.: 1804488PAD		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 5-9-18
SURVEYED BY: ML/TF
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1



APD ID: 10400030357

Submission Date: 05/24/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

08/06/2019

APD ID: 10400030357

Submission Date: 05/24/2018

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COLTRANE 36/25 W0PI FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: NM1693

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:



Application for Permit to Drill

APD Package Report

Date Printed: 08/06/2019 10:13 AM

APD ID: 10400030357	Well Status: AAPD
APD Received Date: 05/24/2018 02:26 PM	Well Name: COLTRANE 36/25 W0PI FED
Operator: MEWBOURNE OIL COMPANY	Well Number: 1H

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - Operator Letter of Designation: 1 file(s)
 - Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - Blowout Prevention Choke Diagram Attachment: 2 file(s)
 - Blowout Prevention BOP Diagram Attachment: 2 file(s)
 - Casing Taperd String Specs: 4 file(s)
 - Casing Design Assumptions and Worksheet(s): 4 file(s)
 - Hydrogen sulfide drilling operations plan: 1 file(s)
 - Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
 - Other Facets: 1 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities map: 1 file(s)
 - Water source and transportation map: 1 file(s)
 - Construction Materials source location attachment: 1 file(s)
 - Well Site Layout Diagram: 1 file(s)
 - Other SUPO Attachment: 2 file(s)
- PWD Report
- PWD Attachments
 - None

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- Bond Report
- Bond Attachments
 - None