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Carlsbad Field Office
OCD Artesia

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DISTRICT II-ARTESIA O.C.D.
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 NMNM56428
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input 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. PAVO FRIO 29/30 B2CD.FED.COM 1H 322847
3a. Address PO Box 5270 Hobbs NM 88240		9. API-Well No 14744 30-015-45 406
3b. Phone No (include area code) (575)393-5905		10. Field and Pool, or Exploratory PALMILLO EAST BONE SPRING OIL / B
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNE / 550 FNL / 2600 FEL / LAT 32.7241845 / LONG -104.0967868 At proposed prod. zone NWNW / 500 FNL / 330 FWL / LAT 32.7242851 / LONG -104.1207291		11. Sec., T, R, M, or Blk. and Survey or Area SEC 29 / T18S / R29E / NMP
14. Distance in miles and direction from nearest town or post office* 20 miles		12. County or Parish EDDY
15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line, if any) 185 feet		13. State NM
16. No of acres in lease 440		17. Spacing Unit dedicated to this well 320
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 330 feet		20. BLM/BIA Bond No. in file FED: NM1693
19. Proposed Depth 7575 feet / 14991 feet		21. Estimated duration 60 days
22. Approximate date work will start* 07/16/2018		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 05/31/2018
Title Regulatory		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 10/24/2018
Title Petroleum Engineer		
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: 10/24/2018

RWP/H-7-18

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 1: 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 connects this information to a new 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: NWNE / 550 FNL / 2600 FEL / TWSP: 18S / RANGE: 29E / SECTION: 29 / LAT: 32.7241845 / LONG: -104.0967868 (TVD: 27 feet, MD: 27 feet)
PPP: NWNW / 500 FNL / 1185 FWL / TWSP: 18S / RANGE: 29E / SECTION: 30 / LAT: 32.7242894 / LONG: -104.0179489 (TVD: 7593 feet, MD: 14136 feet)
PPP: NENW / 500 FNL / 2310 FWL / TWSP: 18S / RANGE: 29E / SECTION: 29 / LAT: 32.7243191 / LONG: -104.0979993 (TVD: 7725 feet, MD: 7999 feet)
BHL: NWNW / 500 FNL / 330 FWL / TWSP: 18S / RANGE: 29E / SECTION: 30 / LAT: 32.7242851 / LONG: -104.1207291 (TVD: 7575 feet, MD: 14991 feet)

BLM Point of Contact

Name: Katrina Ponder
Title: Geologist
Phone: 5752345969
Email: kponder@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.:	NMNM056428
WELL NAME & NO.:	Pavo Frio 29/30 B2CD Fed Com 1H
SURFACE HOLE FOOTAGE:	550'/N & 2600'/E
BOTTOM HOLE FOOTAGE:	500'/N & 330'/W
LOCATION:	Section 29, T.18 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input 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

A. Hydrogen Sulfide

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Yates** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **300** 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. **Additional cement maybe required. Excess calculates to 22%.**

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings , the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **7** inch production casing is:
- Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Additional cement maybe required. Excess calculates to 24%.**
4. The minimum required fill of cement behind the **4-1/2** inch production liner is:
- Cement should tie-back 100' 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

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 (one log per well pad is acceptable) run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if

exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - 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.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except

the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

- c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
- 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. 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.
- f. 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. This test shall be performed prior to the test at full stack pressure.
- g. 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.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

ZS 102218

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM056428
WELL NAME & NO.:	Pavo Frio 29/30 B2CD Fed Com 1H
SURFACE HOLE FOOTAGE:	550'/N & 2600'/E
BOTTOM HOLE FOOTAGE	500'/N & 330'/W
LOCATION:	Section 29, T.18 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Hydrology
- ☐ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☐ **Production (Post Drilling)**
 - Well Structures & Facilities
- ☐ **Interim Reclamation**
- ☐ **Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Hydrology

The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

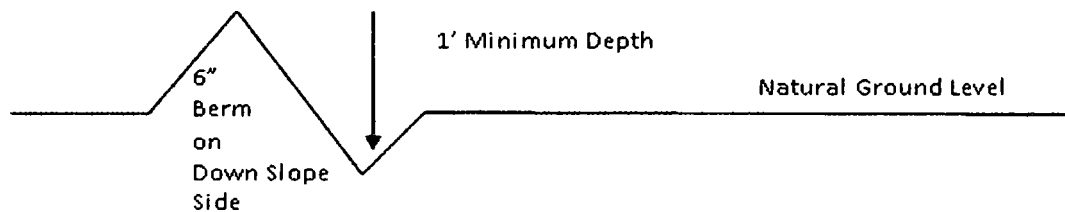
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out sloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

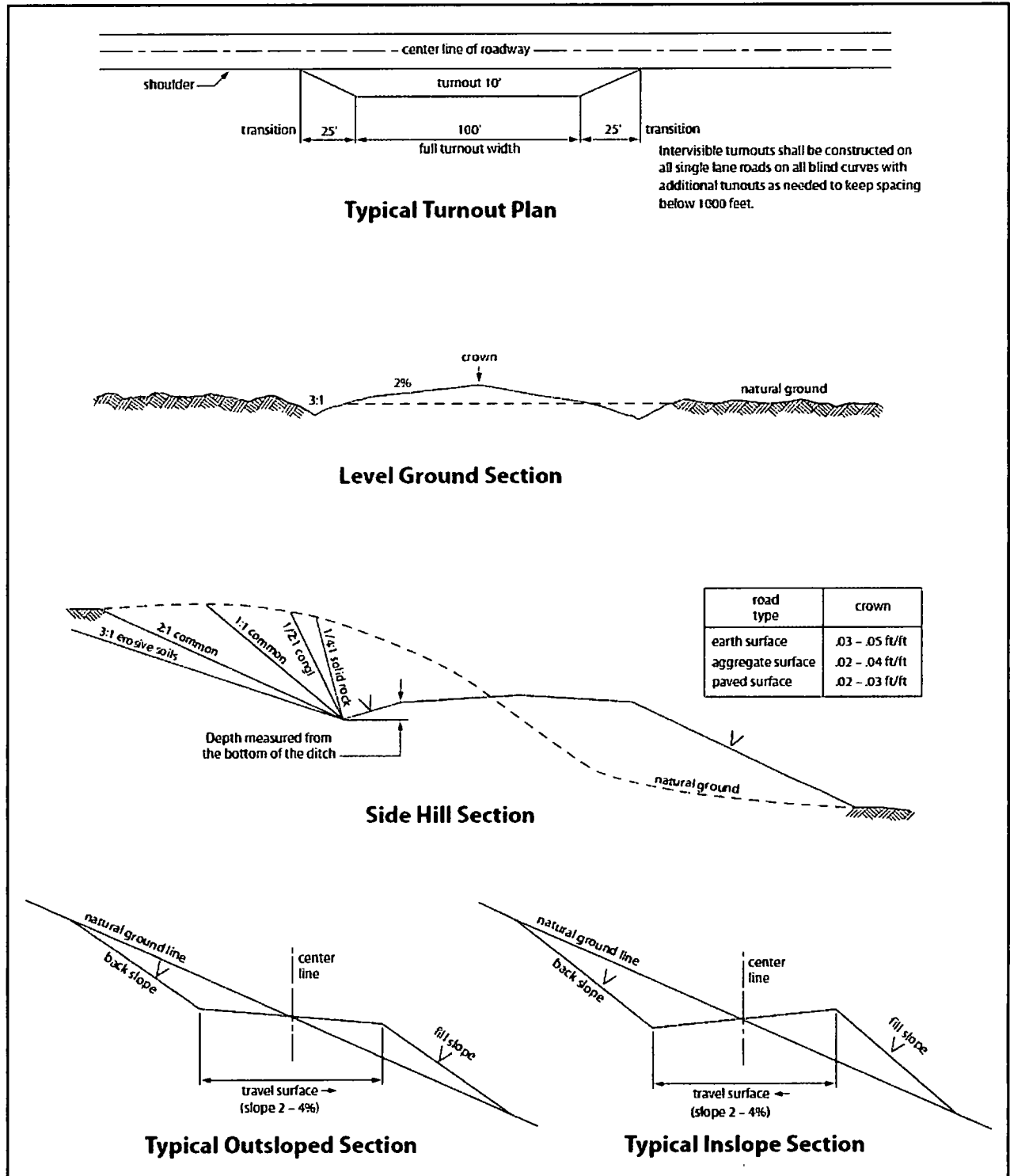


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



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

Operator Certification Data Report

10/28/2018

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: 05/31/2018

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:



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

Application Data Report

10/28/2018

APD ID: 10400029504

Submission Date: 05/31/2018

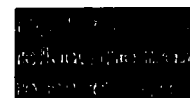
Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Type: OIL WELL

Well Number: 1H

Well Work Type: Drill



[Show Final Text](#)

Section 1 - General

APD ID: 10400029504

Tie to previous NOS?

Submission Date: 05/31/2018

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: NMNM056428

Lease Acres: 440

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: PavoFrio29_30B2CDFedCom1H_operatorletterofdesignation_20180417085151.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

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PALMILLO EAST
BONE SPRING OIL

Pool Name: BONE SPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD 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: PAVO **Number:** 2

Well Class: HORIZONTAL

FRIO CD & BA

Number of Legs:

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 20 Miles

Distance to nearest well: 330 FT

Distance to lease line: 185 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: PavoFrio29_30B2CDFedCom1H_wellplat_20180717103545.pdf

Well work start Date: 07/16/2018

Duration: 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	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	550	FNL	260 0	FEL	18S	29E	29	Aliquot NWNE	32.72418 45	- 104.0967 868	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 056428	349 7	27	27
KOP Leg #1	500	FNL	249 4	FEL	18S	29E	29	Aliquot NWNE	32.72432 12	- 104.0964 45	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 056428	- 375 1	724 9	724 8
PPP Leg #1	500	FNL	231 0	FWL	18S	29E	29	Aliquot NENW	32.72431 91	- 104.0979 993	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 000092 4	- 422 8	799 9	772 5

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD 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	500	FNL	118 5	FWL	18S	29E	30	Aliquot NWN W	32.72428 94	- 104.1179 489	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 000092 4A	- 409 6	141 36	759 3
EXIT Leg #1	500	FNL	330	FWL	18S	29E	30	Aliquot NWN W	32.72428 51	- 104.1207 291	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 000092 4A	- 407 8	149 91	757 5
BHL Leg #1	500	FNL	330	FWL	18S	29E	30	Aliquot NWN W	32.72428 51	- 104.1207 291	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 000092 4A	- 407 8	149 91	757 5



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

Drilling Plan Data Report

10/28/2018

APD ID: 10400029504

Submission Date: 05/31/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Type: OIL WELL

Well Number: 1H

Well Work Type: Drill

Unpublished data
reflects the most
current information

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Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3497	27	27		NONE	No
2	BOTTOM SALT	2662	835	835	SALT	NONE	No
3	YATES	2512	985	985	SANDSTONE	NATURAL GAS,OIL	No
4	SEVEN RIVERS	2127	1370	1370	DOLOMITE	NATURAL GAS,OIL	No
5	QUEEN	1547	1950	1950	SANDSTONE,DOLOMITE	NATURAL GAS,OIL	No
6	GRAYBURG	1197	2300	2300		NONE	No
7	SAN ANDRES	682	2815	2815	DOLOMITE	NATURAL GAS,OIL	No
8	BONE SPRING LIME	-83	3580	3580	LIMESTONE,SHALE	NATURAL GAS,OIL	No
9	BONE SPRING 1ST	-3178	6675	6675	SANDSTONE	NATURAL GAS,OIL	No
10	BONE SPRING 2ND	-4003	7500	7500	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 14991

Equipment: Annular, pipe ram, blind ram

Requesting Variance? YES

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

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

Choke Diagram Attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

Pavo_Frio_29_30_B2CD_Fed_Com_1H_3M_BOPE_Choke_Diagram_20180530160659.pdf

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Flex_Line_Specs_20180530160700.pdf

BOP Diagram Attachment:

Pavo_Frio_29_30_B2CD_Fed_Com_1H_3M_BOPE_Schematic_20180530160715.pdf

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Multi_Bowl_WH_20180530160716.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	300	0	300	3524		300	H-40	48	STC	5.48	12.32	DRY	22.36	DRY	37.57
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	1325	0	1325	3524		1325	J-55	36	LTC	2.93	5.11	DRY	9.5	DRY	11.82
3	PRODUCTION	8.75	7.0	NEW	API	N	0	8009	0	7725	3524		8009	P-110	26	LTC	2.07	2.64	DRY	3.04	DRY	3.99
4	LINER	6.125	4.5	NEW	API	N	7249	14991	7248	7725			7742	P-110	13.5	LTC	2.66	3.09	DRY	3.23	DRY	4.04

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Csg_Assumptions_20180530160819.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Csg_Assumptions_20180530160909.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Csg_Assumptions_20180530161144.pdf

Casing ID: 4 **String Type:** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Csg_Assumptions_20180530162126.pdf

Section 4 - Cement

Operator Name: MEWBORNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	116	75	2.12	12.5	159	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		116	300	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	684	135	2.12	12.5	286	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		684	1325	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		1125	5507	390	2.12	12.5	827	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		5507	8009	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		7249	14991	315	2.97	11.2	935	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

Describe the mud monitoring system utilized: Visual monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
-----------	--------------	----------	----------------------	----------------------	---------------------	-----------------------------	----	----------------	----------------	-----------------	----------------------------

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

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	300	SPUD MUD	8.6	8.8							
300	1325	SALT SATURATED	10	10							
1325	7248	WATER-BASED MUD	8.6	9.7							
7248	7725	OIL-BASED MUD	8.6	10							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (7249') to surface

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: 4017

Anticipated Surface Pressure: 2338.84

Anticipated Bottom Hole Temperature(F): 140

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:

Pavo_Frio_29_30_B2CD_Fed_Com_1H_H2S_Plan_20180530162951.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Dir_Plot_20180530163058.pdf

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Dir_Plan_20180530163059.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Pavo_Frio_29_30_B2CD_Fed_Com_1H_Drilling_Program_20180530163110.doc

Other Variance attachment:



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
<i>Justin Cropper</i>

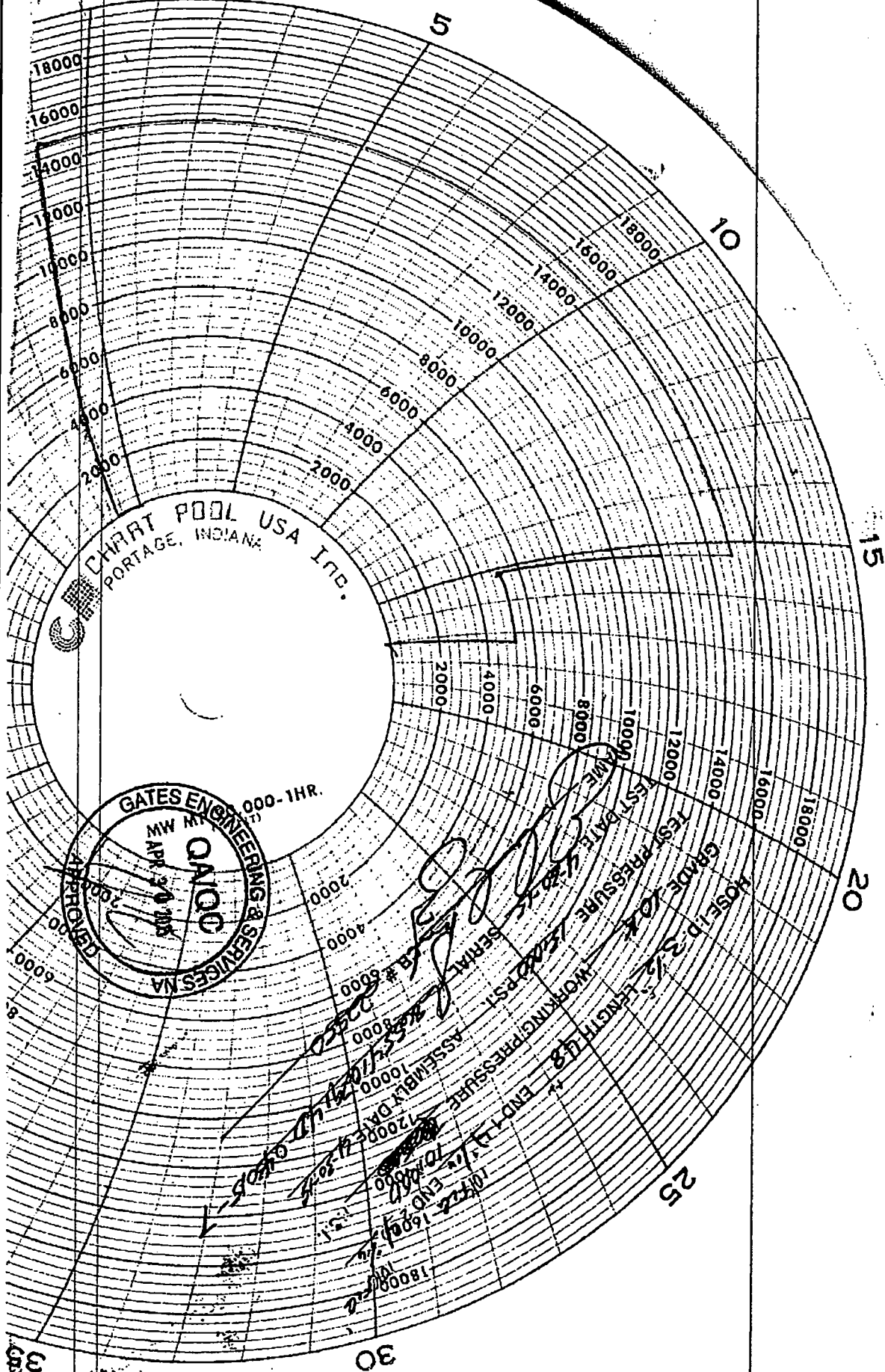
Production:
Date :
Signature :

PRODUCTION
4/30/2015
<i>Justin Cropper</i>

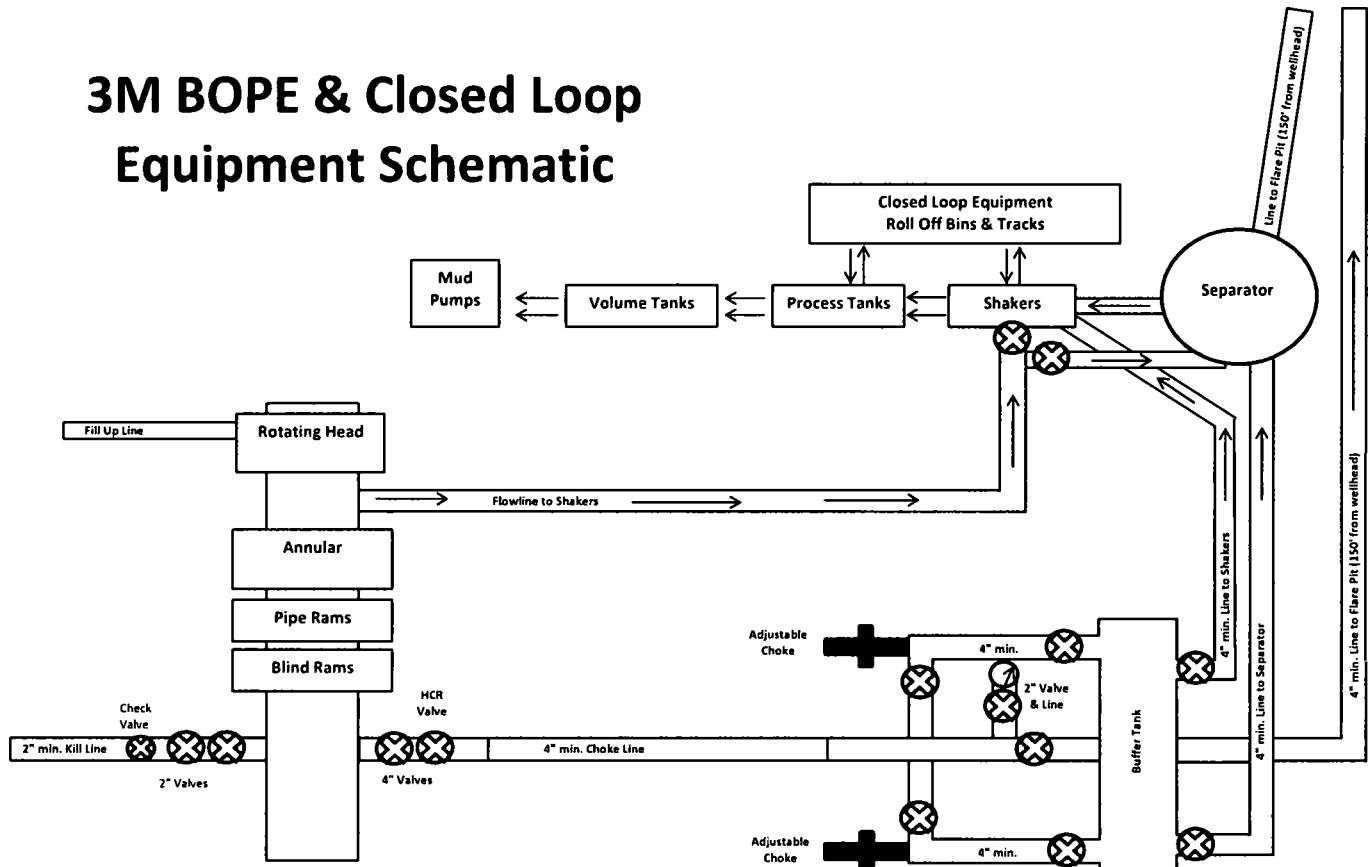
Form PTC - 01 Rev.02



60 MIN.

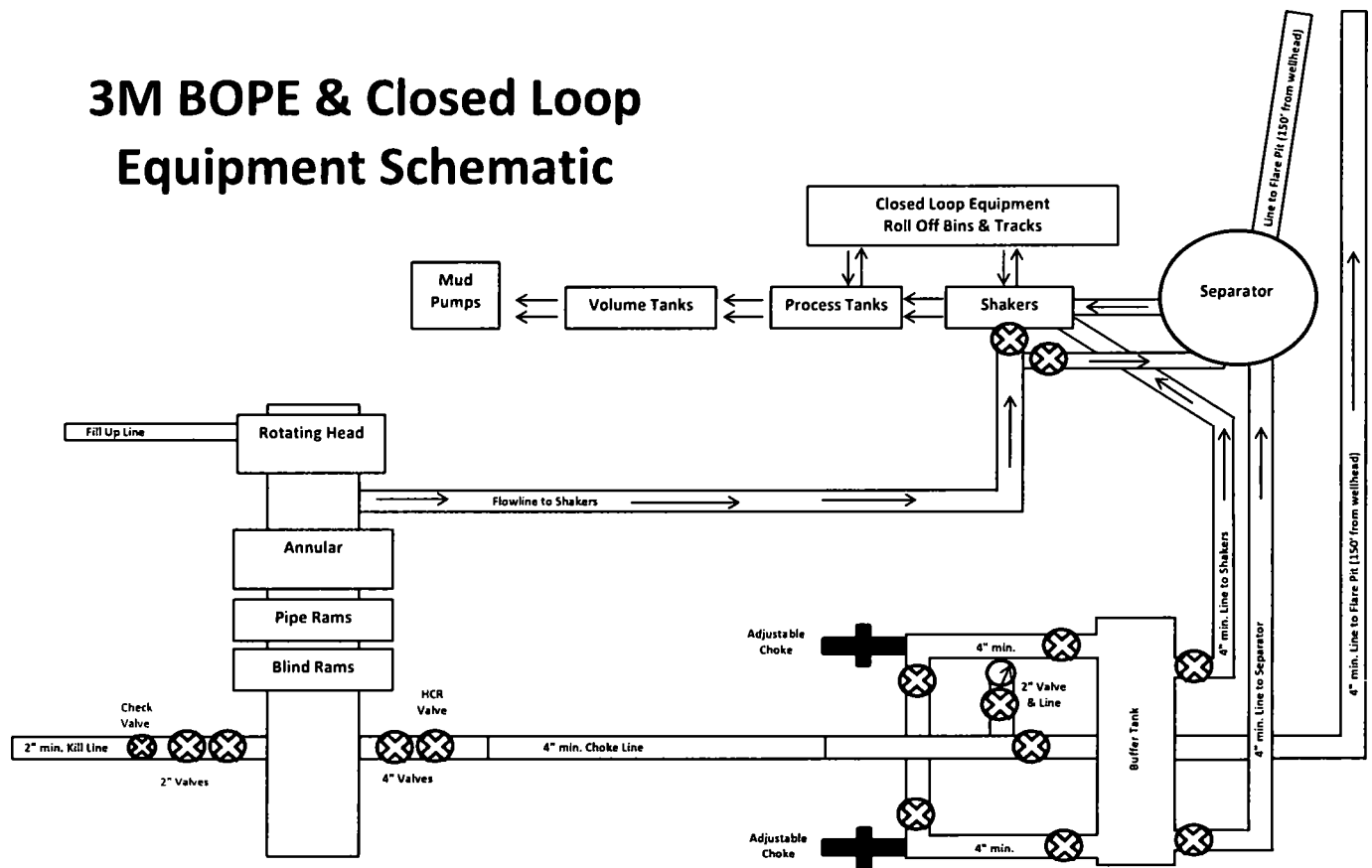


3M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

3M BOPE & Closed Loop Equipment Schematic



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

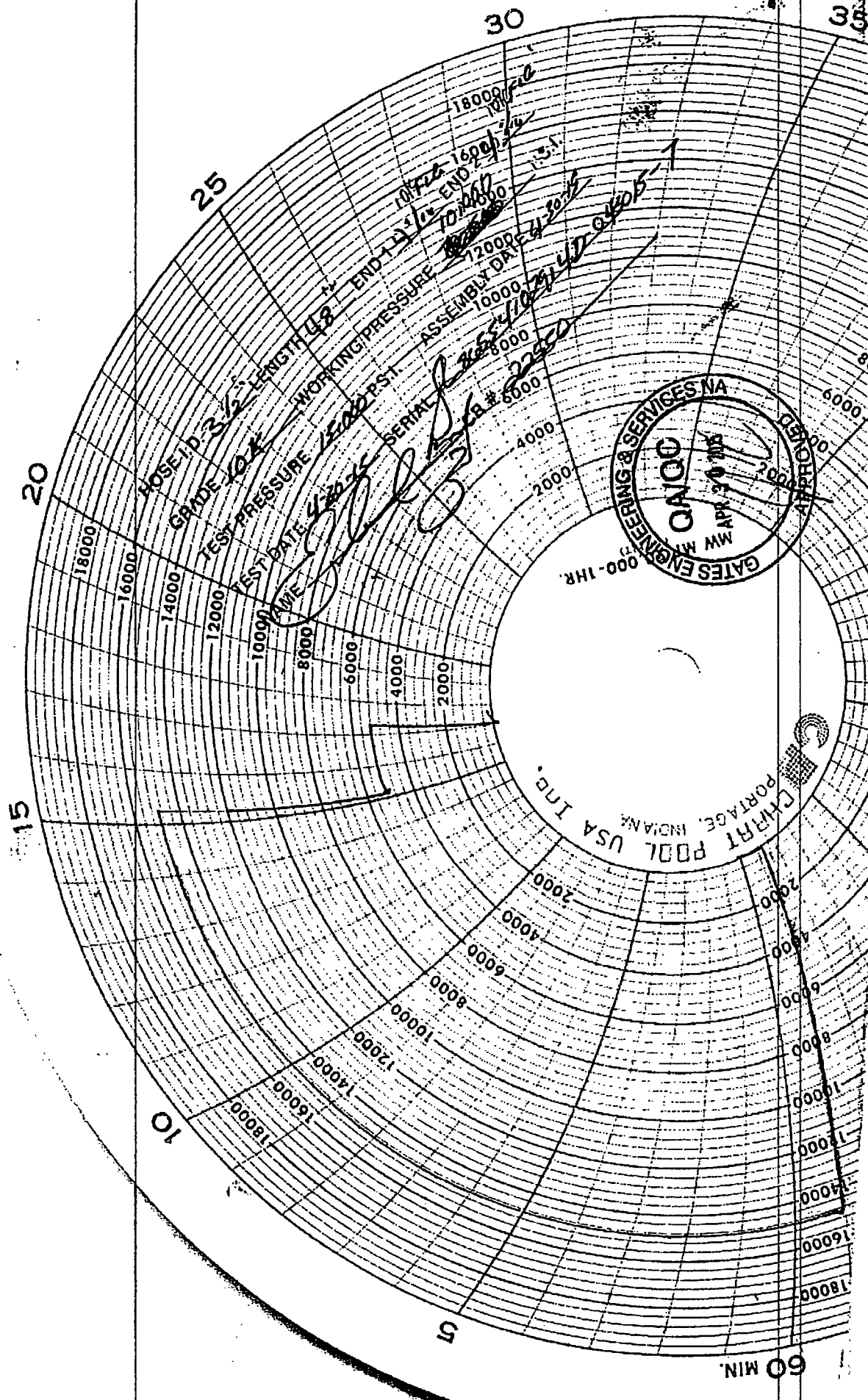
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

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 :	QUALITY	Production:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :		Signature :	

Form PTC - 01 Rev.0/2

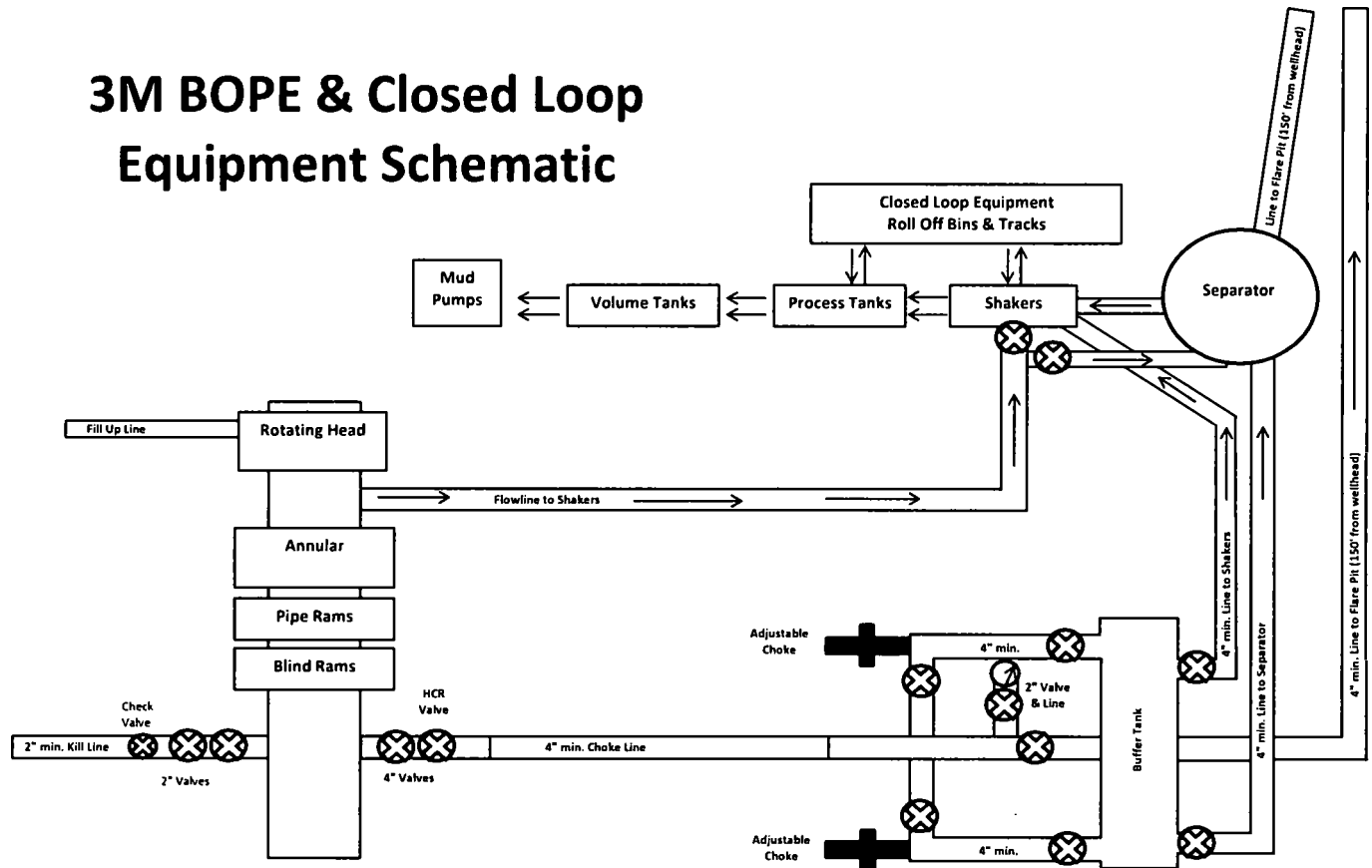




GATES ENGINEERING & SERVICES NA
CA100
MW MIN
APR 20 1955
APPROVED

CHART POOL USA INC.
PORTAGE, INDIANA

3M BOPE & Closed Loop Equipment Schematic



Drawing not to scale



ENGINEERING
& SERVICES

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

Customer Ref. :

4060578

Invoice No. :

500506

Test Date:

4/30/2015

Hose Serial No.:

D-043015-7

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 :

QUALITY

Date :

4/30/2015

Signature :

Production:

PRODUCTION

Date :

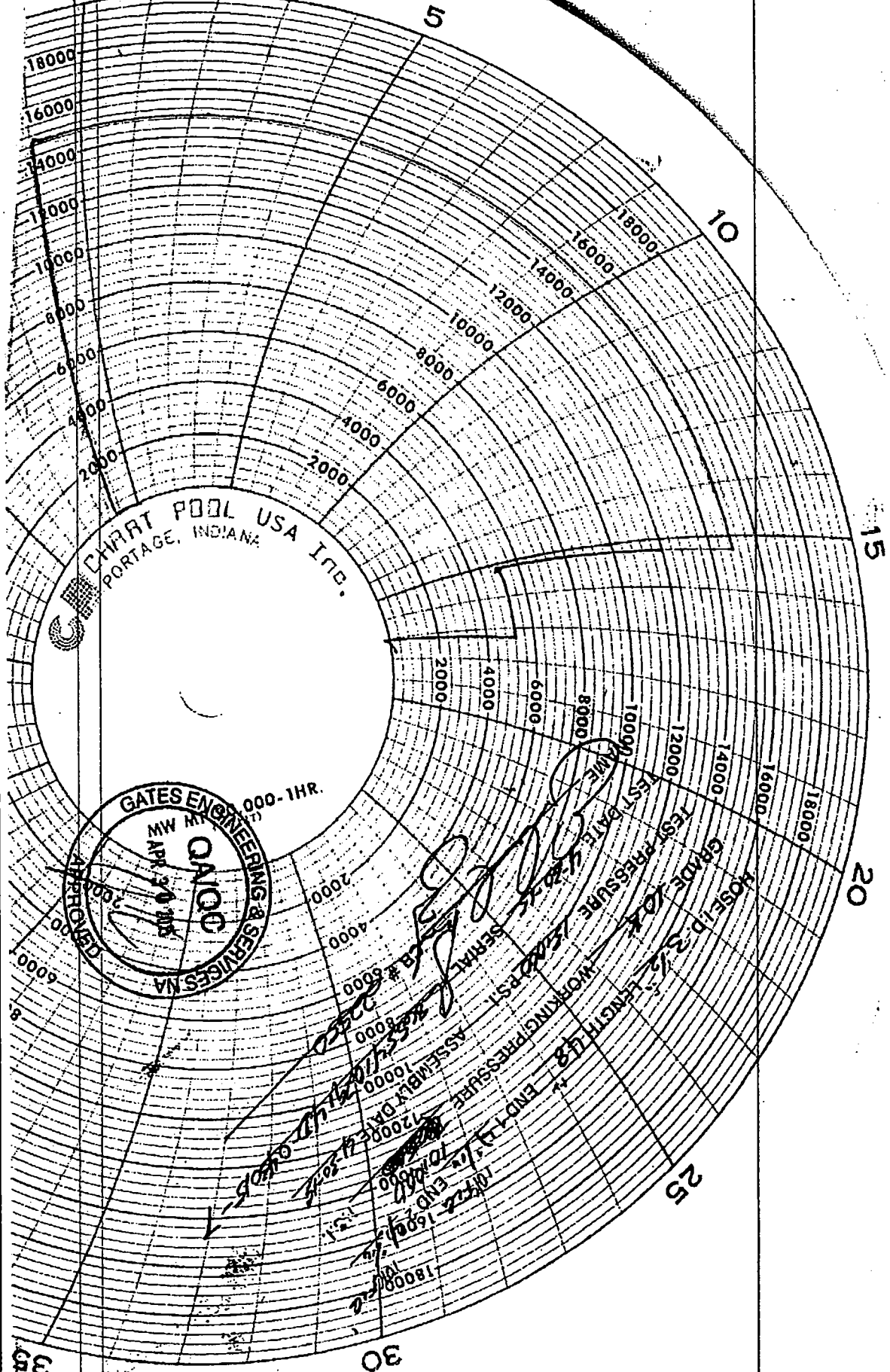
4/30/2015

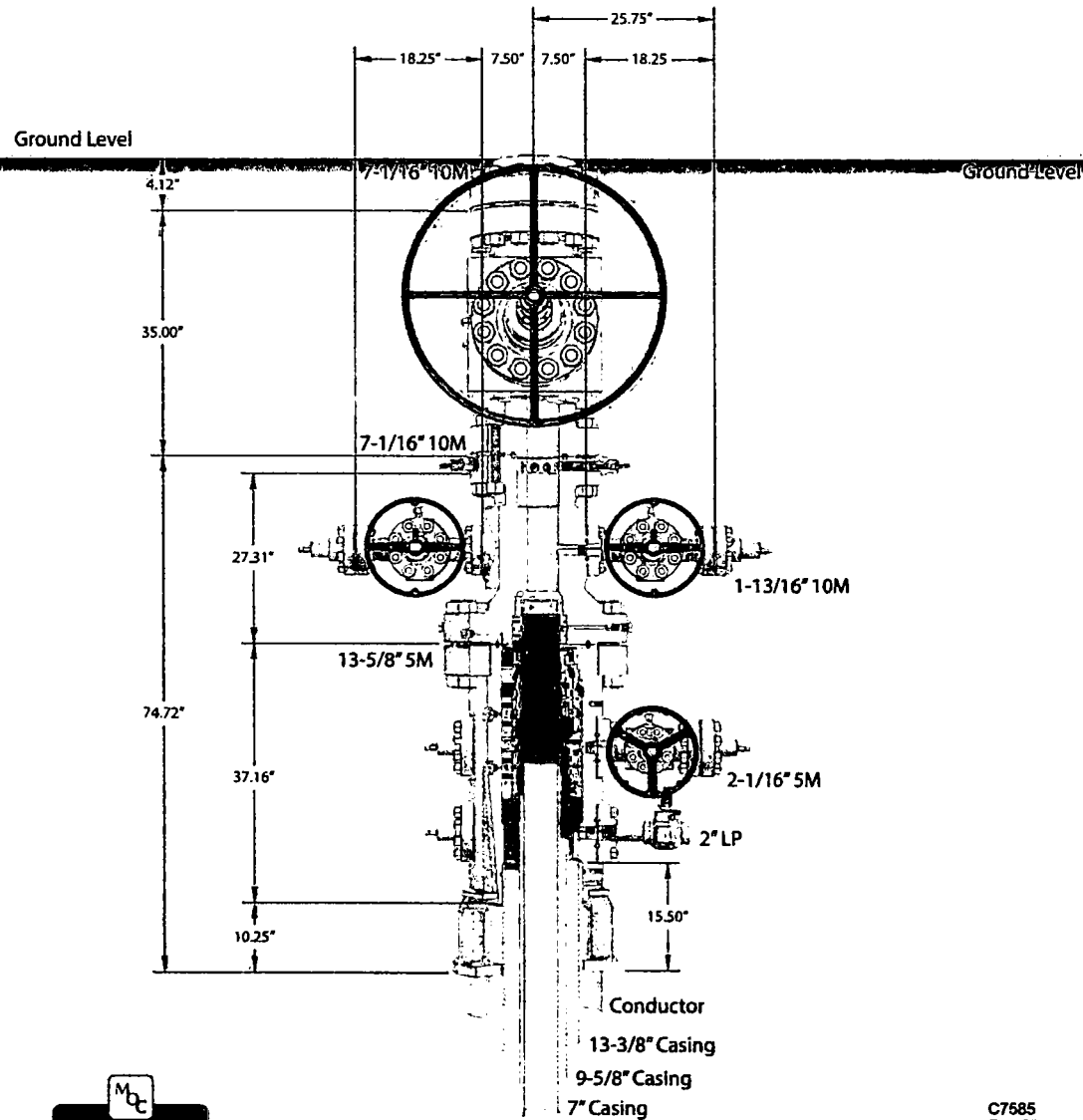
Signature :

Form PTC - 01 Rev.02

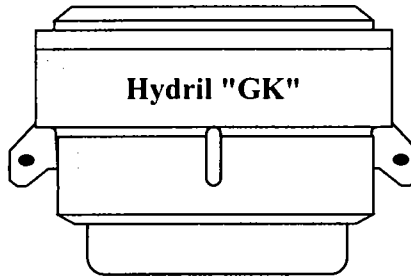
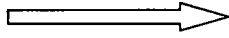


60 MIN.



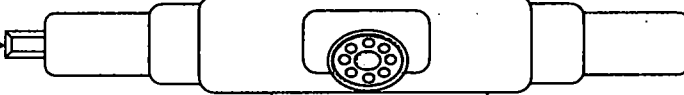


Hydril "GK"
13 5/8" 3M

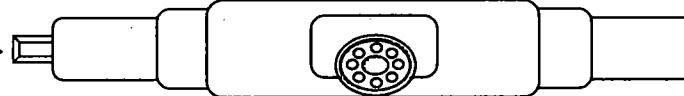


Hydril "GK"

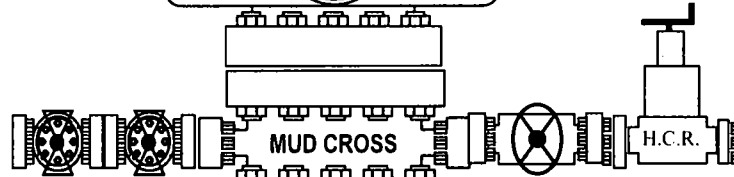
Cameron Type U
13 5/8" 3M



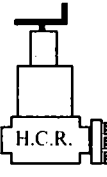
4 1/2"x 5 7/8" VBR



BLIND RAMS



MUD CROSS



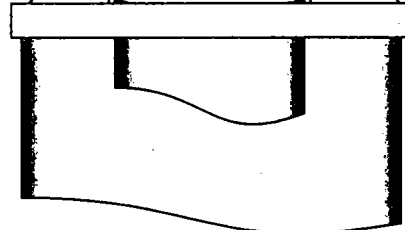
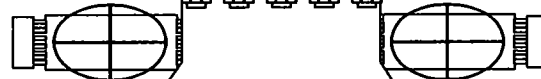
7" RAMS



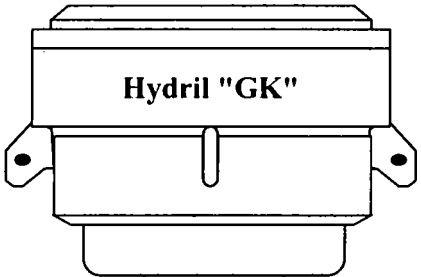
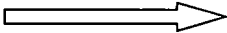
13 5/8" 3M

13 5/8" 3M

13 5/8" 3M

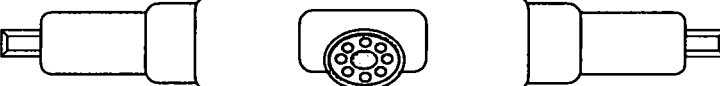


Hydril "GK"
13 5/8" 3M

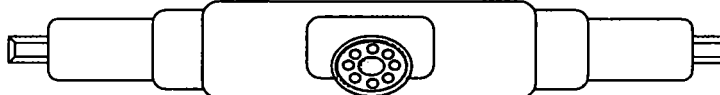


Hydril "GK"

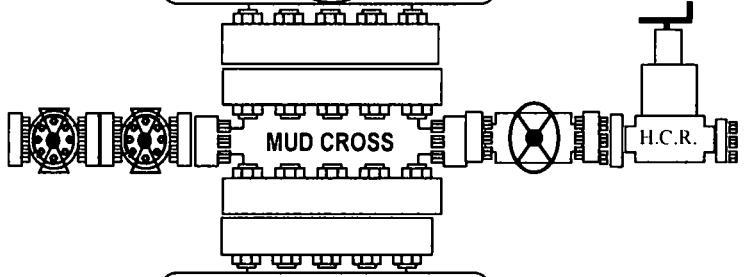
Cameron Type U
13 5/8" 3M



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



BLIND RAMS



MUD CROSS

H.C.R.



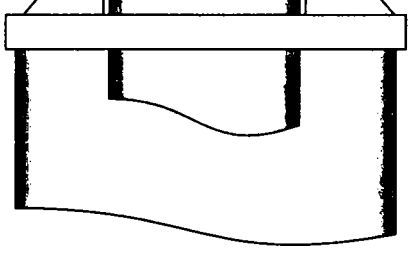
7" RAMS

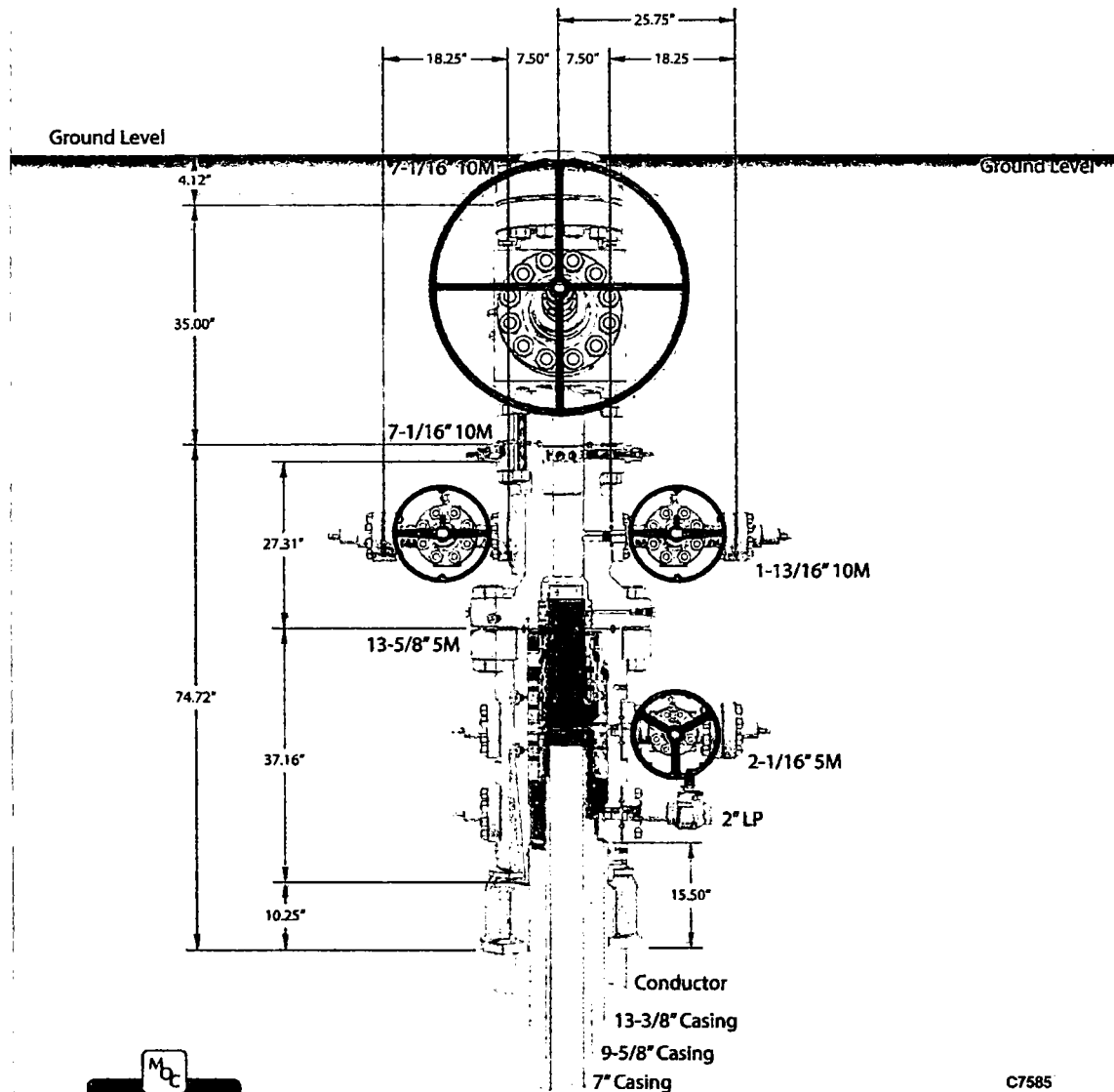


13 5/8" 3M

13 5/8" 3M

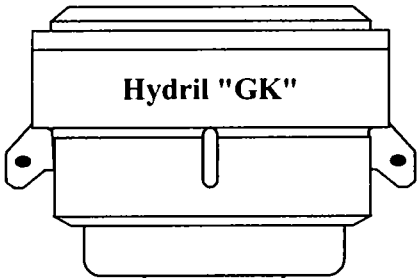
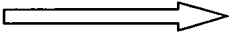
13 5/8" 3M





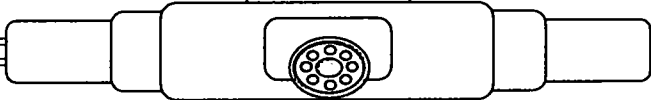
Engineering Change 57" conductor cut-off
79

Hydril "GK"
13 5/8" 3M

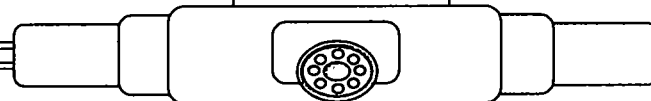


Hydril "GK"

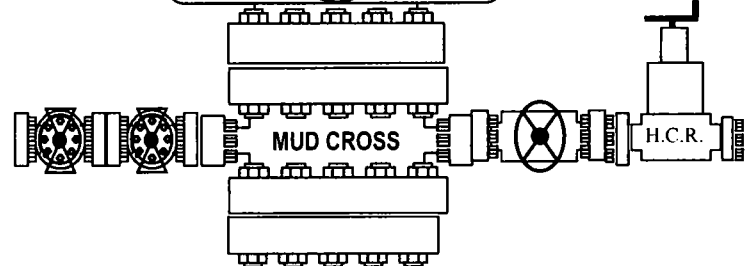
Cameron Type U
13 5/8" 3M



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



BLIND RAMS



MUD CROSS

H.C.R.



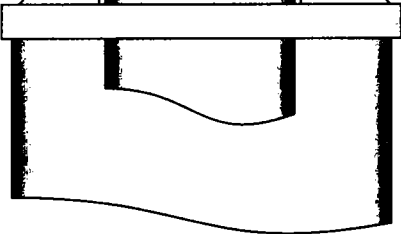
7" RAMS



13 5/8" 3M

13 5/8" 3M

13 5/8" 3M

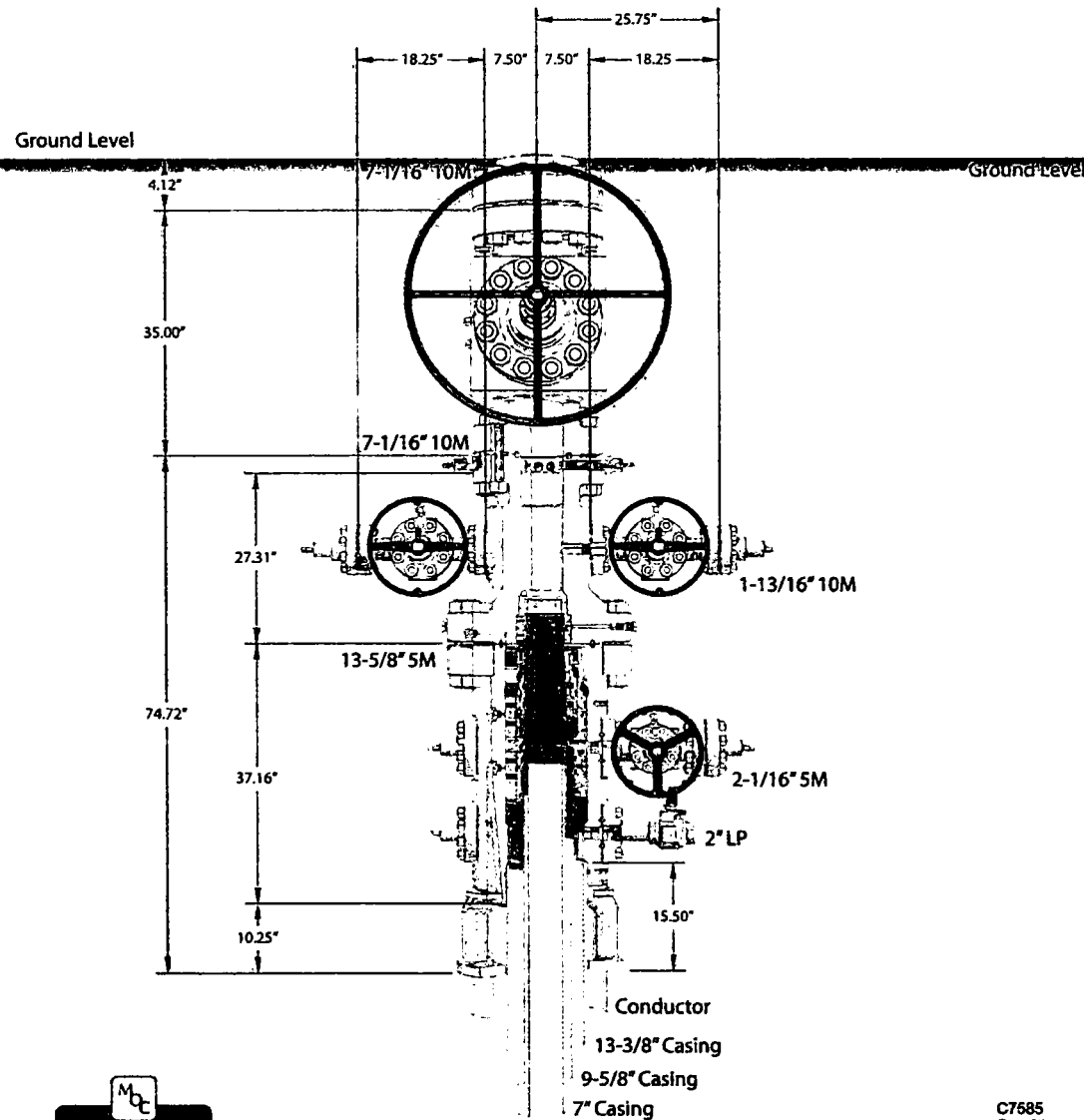




CAMERON

A Schlumberger Company

13-5/8" MN-DS Wellhead System



Capping Hanger 57" conductor cut-off
701

C7585
Rev 02

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

Mewbourne Oil Company, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
SL: 550' FNL & 2600' FEL, Sec 29
BHL: 500' FNL & 330' FWL, Sec 30

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'	300'	13.375"	48	H40	STC	5.48	12.32	22.36	37.57
12.25"	0'	1325'	9.625"	36	J55	LTC	2.93	5.11	9.50	11.82
8.75"	0'	8009'	7"	26	HCP110	LTC	2.07	2.64	3.04	3.99
6.125"	7249'	14,991'	4.5"	13.5	P110	LTC	2.66	3.09	3.23	4.04
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, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
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Mewbourne Oil Company, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
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Mewbourne Oil Company, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
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If yes, are there three strings cemented to surface?	

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

There will be an initial training session prior to encountering a 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.

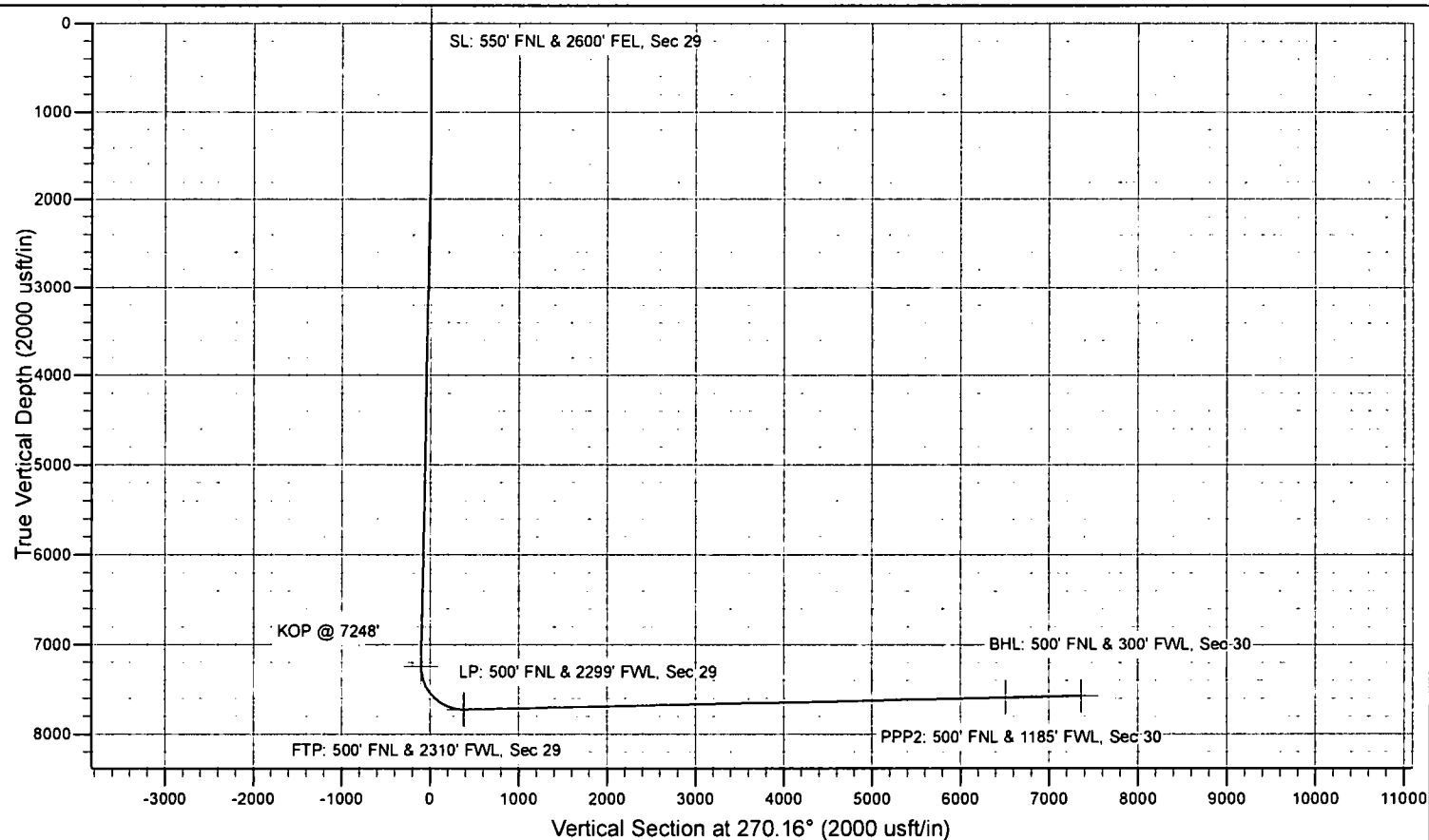
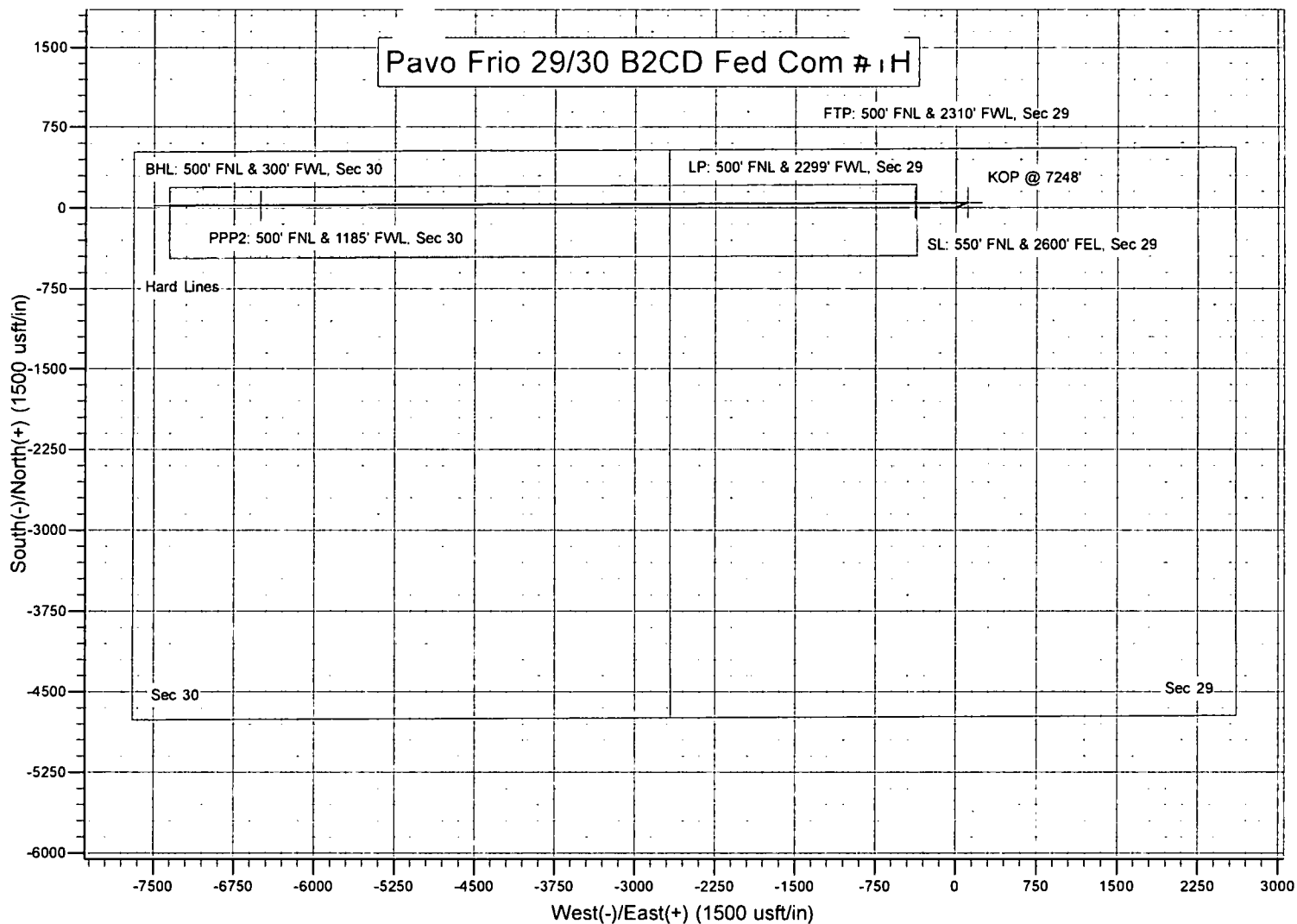
8. **Emergency Phone Numbers**

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

Pavo Frio 29/30 B2CD Fed Com #1H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Pavo Frio 29/30 B2CD Fed Com #1H

Sec 29, T18S, R29E

SL: 550' FNL & 2600' FEL, Sec 29

BHL: 500' FNL & 330' FWL, Sec 30

Plan: Design #1

Standard Planning Report

30 May, 2018

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Frio 29/30 B2CD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3524.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3524.0usft (Original Well Elev)
Site:	Pavo Frio 29/30 B2CD Fed Com #1H	North Reference:	Grid
Well:	Sec 29, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 500' FNL & 330' FWL, Sec 30		
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	Pavo Frio 29/30 B2CD Fed Com #1H			
Site Position:		Northing:	627,271.00 usft	Latitude: 32.7241845
From:	Map	Easting:	614,082.00 usft	Longitude: -104.0967868
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.13 °

Well	Sec 29, T18S, R29E			
Well Position	+N/-S	0.0 usft	Northing:	627,271.00 usft
	+E/-W	0.0 usft	Easting:	614,082.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	3,524.0 usft
			Ground Level:	3,497.0 usft

Wellbore	BHL: 500' FNL & 330' FWL, Sec 30				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/30/2018	7.01	60.38	48,164

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	270.16

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	
1,375.0	0.00	0.00	1,375.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,451.6	1.15	64.54	1,451.6	0.3	0.7	1.50	1.50	0.00	64.54	
7,172.1	1.15	64.54	7,170.9	49.7	104.3	0.00	0.00	0.00	0.00	
7,248.7	0.00	0.00	7,247.5	50.0	105.0	1.50	-1.50	0.00	180.00	KOP @ 7248'
8,009.1	91.23	269.78	7,725.0	48.1	-382.8	12.00	12.00	0.00	-90.22	
14,991.0	91.23	269.78	7,575.0	21.0	-7,363.0	0.00	0.00	0.00	0.00	BHL: 500' FNL & 300'

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Pavo Frio 29/30 B2CD Fed Com #1H
 Well: Sec 29, T18S, R29E
 Wellbore: BHL: 500' FNL & 330' FWL, Sec 30
 Design: Design #1

Local Co-ordinate Reference: Site Pavo Frio 29/30 B2CD Fed Com #1H
 TVD Reference: WELL @ 3524.0usft (Original Well Elev)
 MD Reference: WELL @ 3524.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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: 550' FNL & 2600' FEL, Sec 29									
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
1,375.0	0.00	0.00	1,375.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.38	64.54	1,400.0	0.0	0.1	-0.1	1.50	1.50	0.00
1,451.6	1.15	64.54	1,451.6	0.3	0.7	-0.7	1.50	1.50	0.00
1,500.0	1.15	64.54	1,500.0	0.7	1.6	-1.6	0.00	0.00	0.00
1,600.0	1.15	64.54	1,600.0	1.6	3.4	-3.4	0.00	0.00	0.00
1,700.0	1.15	64.54	1,699.9	2.5	5.2	-5.2	0.00	0.00	0.00
1,800.0	1.15	64.54	1,799.9	3.3	7.0	-7.0	0.00	0.00	0.00
1,900.0	1.15	64.54	1,899.9	4.2	8.8	-8.8	0.00	0.00	0.00
2,000.0	1.15	64.54	1,999.9	5.1	10.6	-10.6	0.00	0.00	0.00
2,100.0	1.15	64.54	2,099.9	5.9	12.4	-12.4	0.00	0.00	0.00
2,200.0	1.15	64.54	2,199.8	6.8	14.2	-14.2	0.00	0.00	0.00
2,300.0	1.15	64.54	2,299.8	7.6	16.1	-16.0	0.00	0.00	0.00
2,400.0	1.15	64.54	2,399.8	8.5	17.9	-17.8	0.00	0.00	0.00
2,500.0	1.15	64.54	2,499.8	9.4	19.7	-19.7	0.00	0.00	0.00
2,600.0	1.15	64.54	2,599.8	10.2	21.5	-21.5	0.00	0.00	0.00
2,700.0	1.15	64.54	2,699.7	11.1	23.3	-23.3	0.00	0.00	0.00
2,800.0	1.15	64.54	2,799.7	12.0	25.1	-25.1	0.00	0.00	0.00
2,900.0	1.15	64.54	2,899.7	12.8	26.9	-26.9	0.00	0.00	0.00
3,000.0	1.15	64.54	2,999.7	13.7	28.7	-28.7	0.00	0.00	0.00
3,100.0	1.15	64.54	3,099.7	14.5	30.6	-30.5	0.00	0.00	0.00
3,200.0	1.15	64.54	3,199.6	15.4	32.4	-32.3	0.00	0.00	0.00
3,300.0	1.15	64.54	3,299.6	16.3	34.2	-34.1	0.00	0.00	0.00
3,400.0	1.15	64.54	3,399.6	17.1	36.0	-35.9	0.00	0.00	0.00
3,500.0	1.15	64.54	3,499.6	18.0	37.8	-37.7	0.00	0.00	0.00
3,600.0	1.15	64.54	3,599.6	18.9	39.6	-39.6	0.00	0.00	0.00
3,700.0	1.15	64.54	3,699.5	19.7	41.4	-41.4	0.00	0.00	0.00
3,800.0	1.15	64.54	3,799.5	20.6	43.2	-43.2	0.00	0.00	0.00
3,900.0	1.15	64.54	3,899.5	21.4	45.0	-45.0	0.00	0.00	0.00
4,000.0	1.15	64.54	3,999.5	22.3	46.9	-46.8	0.00	0.00	0.00
4,100.0	1.15	64.54	4,099.5	23.2	48.7	-48.6	0.00	0.00	0.00
4,200.0	1.15	64.54	4,199.4	24.0	50.5	-50.4	0.00	0.00	0.00
4,300.0	1.15	64.54	4,299.4	24.9	52.3	-52.2	0.00	0.00	0.00
4,400.0	1.15	64.54	4,399.4	25.8	54.1	-54.0	0.00	0.00	0.00
4,500.0	1.15	64.54	4,499.4	26.6	55.9	-55.8	0.00	0.00	0.00
4,600.0	1.15	64.54	4,599.4	27.5	57.7	-57.6	0.00	0.00	0.00
4,700.0	1.15	64.54	4,699.3	28.3	59.5	-59.4	0.00	0.00	0.00
4,800.0	1.15	64.54	4,799.3	29.2	61.3	-61.3	0.00	0.00	0.00
4,900.0	1.15	64.54	4,899.3	30.1	63.2	-63.1	0.00	0.00	0.00
5,000.0	1.15	64.54	4,999.3	30.9	65.0	-64.9	0.00	0.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Pavo Frio 29/30 B2CD Fed Com #1H
 Well: Sec 29, T18S, R29E
 Wellbore: BHL: 500' FNL & 330' FWL, Sec 30
 Design: Design #1

Local Co-ordinate Reference: Site Pavo Frio 29/30 B2CD Fed Com #1H
 TVD Reference: WELL @ 3524.0usft (Original Well Elev)
 MD Reference: WELL @ 3524.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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	1.15	64.54	5,099.3	31.8	66.8	-66.7	0.00	0.00	0.00
5,200.0	1.15	64.54	5,199.2	32.7	68.6	-68.5	0.00	0.00	0.00
5,300.0	1.15	64.54	5,299.2	33.5	70.4	-70.3	0.00	0.00	0.00
5,400.0	1.15	64.54	5,399.2	34.4	72.2	-72.1	0.00	0.00	0.00
5,500.0	1.15	64.54	5,499.2	35.2	74.0	-73.9	0.00	0.00	0.00
5,600.0	1.15	64.54	5,599.2	36.1	75.8	-75.7	0.00	0.00	0.00
5,700.0	1.15	64.54	5,699.1	37.0	77.6	-77.5	0.00	0.00	0.00
5,800.0	1.15	64.54	5,799.1	37.8	79.5	-79.3	0.00	0.00	0.00
5,900.0	1.15	64.54	5,899.1	38.7	81.3	-81.2	0.00	0.00	0.00
6,000.0	1.15	64.54	5,999.1	39.6	83.1	-83.0	0.00	0.00	0.00
6,100.0	1.15	64.54	6,099.1	40.4	84.9	-84.8	0.00	0.00	0.00
6,200.0	1.15	64.54	6,199.0	41.3	86.7	-86.6	0.00	0.00	0.00
6,300.0	1.15	64.54	6,299.0	42.1	88.5	-88.4	0.00	0.00	0.00
6,400.0	1.15	64.54	6,399.0	43.0	90.3	-90.2	0.00	0.00	0.00
6,500.0	1.15	64.54	6,499.0	43.9	92.1	-92.0	0.00	0.00	0.00
6,600.0	1.15	64.54	6,599.0	44.7	93.9	-93.8	0.00	0.00	0.00
6,700.0	1.15	64.54	6,698.9	45.6	95.8	-95.6	0.00	0.00	0.00
6,800.0	1.15	64.54	6,798.9	46.5	97.6	-97.4	0.00	0.00	0.00
6,900.0	1.15	64.54	6,898.9	47.3	99.4	-99.2	0.00	0.00	0.00
7,000.0	1.15	64.54	6,998.9	48.2	101.2	-101.1	0.00	0.00	0.00
7,100.0	1.15	64.54	7,098.9	49.0	103.0	-102.9	0.00	0.00	0.00
7,172.1	1.15	64.54	7,170.9	49.7	104.3	-104.2	0.00	0.00	0.00
7,200.0	0.73	64.54	7,198.8	49.9	104.7	-104.6	1.50	-1.50	0.00
7,248.7	0.00	0.00	7,247.5	50.0	105.0	-104.9	1.50	-1.50	0.00
KOP @ 7248'									
7,300.0	6.15	269.78	7,298.7	50.0	102.2	-102.1	12.00	12.00	0.00
7,400.0	18.15	269.78	7,396.3	49.9	81.2	-81.1	12.00	12.00	0.00
7,500.0	30.15	269.78	7,487.4	49.7	40.4	-40.3	12.00	12.00	0.00
7,600.0	42.15	269.78	7,568.0	49.5	-18.5	18.6	12.00	12.00	0.00
7,700.0	54.14	269.78	7,634.6	49.2	-92.8	93.0	12.00	12.00	0.00
7,800.0	66.14	269.78	7,684.3	48.9	-179.4	179.5	12.00	12.00	0.00
7,900.0	78.14	269.78	7,714.9	48.5	-274.4	274.5	12.00	12.00	0.00
7,999.3	90.05	269.78	7,725.1	48.1	-373.0	373.1	12.00	12.00	0.00
FTP: 500' FNL & 2310' FWL, Sec 29									
8,000.0	90.14	269.78	7,725.1	48.1	-373.7	373.8	12.00	12.00	0.00
8,009.1	91.23	269.78	7,725.0	48.1	-382.8	382.9	12.00	12.00	0.00
LP: 500' FNL & 2299' FWL, Sec 29									
8,100.0	91.23	269.78	7,723.0	47.8	-473.7	473.8	0.00	0.00	0.00
8,200.0	91.23	269.78	7,720.9	47.4	-573.7	573.8	0.00	0.00	0.00
8,300.0	91.23	269.78	7,718.8	47.0	-673.6	673.8	0.00	0.00	0.00
8,400.0	91.23	269.78	7,716.6	46.6	-773.6	773.7	0.00	0.00	0.00
8,500.0	91.23	269.78	7,714.5	46.2	-873.6	873.7	0.00	0.00	0.00
8,600.0	91.23	269.78	7,712.3	45.8	-973.6	973.7	0.00	0.00	0.00
8,700.0	91.23	269.78	7,710.2	45.4	-1,073.5	1,073.7	0.00	0.00	0.00
8,800.0	91.23	269.78	7,708.0	45.0	-1,173.5	1,173.6	0.00	0.00	0.00
8,900.0	91.23	269.78	7,705.9	44.6	-1,273.5	1,273.6	0.00	0.00	0.00
9,000.0	91.23	269.78	7,703.7	44.3	-1,373.5	1,373.6	0.00	0.00	0.00
9,100.0	91.23	269.78	7,701.6	43.9	-1,473.4	1,473.6	0.00	0.00	0.00
9,200.0	91.23	269.78	7,699.4	43.5	-1,573.4	1,573.5	0.00	0.00	0.00
9,300.0	91.23	269.78	7,697.3	43.1	-1,673.4	1,673.5	0.00	0.00	0.00
9,400.0	91.23	269.78	7,695.1	42.7	-1,773.4	1,773.5	0.00	0.00	0.00
9,500.0	91.23	269.78	7,693.0	42.3	-1,873.3	1,873.5	0.00	0.00	0.00
9,600.0	91.23	269.78	7,690.8	41.9	-1,973.3	1,973.4	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Pavo Frio 29/30 B2CD Fed Com #1H
Well: Sec 29, T18S, R29E
Wellbore: BHL: 500' FNL & 330' FWL, Sec 30
Design: Design #1

Local Co-ordinate Reference: Site Pavo Frio 29/30 B2CD Fed Com #1H
TVD Reference: WELL @ 3524.0usft (Original Well Elev)
MD Reference: WELL @ 3524.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
9,700.0	91.23	269.78	7,688.7	41.5	-2,073.3	2,073.4	0.00	0.00	0.00
9,800.0	91.23	269.78	7,686.5	41.2	-2,173.3	2,173.4	0.00	0.00	0.00
9,900.0	91.23	269.78	7,684.4	40.8	-2,273.2	2,273.4	0.00	0.00	0.00
10,000.0	91.23	269.78	7,682.2	40.4	-2,373.2	2,373.3	0.00	0.00	0.00
10,100.0	91.23	269.78	7,680.1	40.0	-2,473.2	2,473.3	0.00	0.00	0.00
10,200.0	91.23	269.78	7,677.9	39.6	-2,573.2	2,573.3	0.00	0.00	0.00
10,300.0	91.23	269.78	7,675.8	39.2	-2,673.2	2,673.3	0.00	0.00	0.00
10,400.0	91.23	269.78	7,673.6	38.8	-2,773.1	2,773.2	0.00	0.00	0.00
10,500.0	91.23	269.78	7,671.5	38.4	-2,873.1	2,873.2	0.00	0.00	0.00
10,600.0	91.23	269.78	7,669.3	38.0	-2,973.1	2,973.2	0.00	0.00	0.00
10,700.0	91.23	269.78	7,667.2	37.7	-3,073.1	3,073.2	0.00	0.00	0.00
10,800.0	91.23	269.78	7,665.0	37.3	-3,173.0	3,173.1	0.00	0.00	0.00
10,900.0	91.23	269.78	7,662.9	36.9	-3,273.0	3,273.1	0.00	0.00	0.00
11,000.0	91.23	269.78	7,660.7	36.5	-3,373.0	3,373.1	0.00	0.00	0.00
11,100.0	91.23	269.78	7,658.6	36.1	-3,473.0	3,473.1	0.00	0.00	0.00
11,200.0	91.23	269.78	7,656.4	35.7	-3,572.9	3,573.0	0.00	0.00	0.00
11,300.0	91.23	269.78	7,654.3	35.3	-3,672.9	3,673.0	0.00	0.00	0.00
11,400.0	91.23	269.78	7,652.1	34.9	-3,772.9	3,773.0	0.00	0.00	0.00
11,500.0	91.23	269.78	7,650.0	34.6	-3,872.9	3,872.9	0.00	0.00	0.00
11,600.0	91.23	269.78	7,647.9	34.2	-3,972.8	3,972.9	0.00	0.00	0.00
11,700.0	91.23	269.78	7,645.7	33.8	-4,072.8	4,072.9	0.00	0.00	0.00
11,800.0	91.23	269.78	7,643.6	33.4	-4,172.8	4,172.9	0.00	0.00	0.00
11,900.0	91.23	269.78	7,641.4	33.0	-4,272.8	4,272.8	0.00	0.00	0.00
12,000.0	91.23	269.78	7,639.3	32.6	-4,372.7	4,372.8	0.00	0.00	0.00
12,100.0	91.23	269.78	7,637.1	32.2	-4,472.7	4,472.8	0.00	0.00	0.00
12,200.0	91.23	269.78	7,635.0	31.8	-4,572.7	4,572.8	0.00	0.00	0.00
12,300.0	91.23	269.78	7,632.8	31.4	-4,672.7	4,672.7	0.00	0.00	0.00
12,400.0	91.23	269.78	7,630.7	31.1	-4,772.7	4,772.7	0.00	0.00	0.00
12,500.0	91.23	269.78	7,628.5	30.7	-4,872.6	4,872.7	0.00	0.00	0.00
12,600.0	91.23	269.78	7,626.4	30.3	-4,972.6	4,972.7	0.00	0.00	0.00
12,700.0	91.23	269.78	7,624.2	29.9	-5,072.6	5,072.6	0.00	0.00	0.00
12,800.0	91.23	269.78	7,622.1	29.5	-5,172.6	5,172.6	0.00	0.00	0.00
12,900.0	91.23	269.78	7,619.9	29.1	-5,272.5	5,272.6	0.00	0.00	0.00
13,000.0	91.23	269.78	7,617.8	28.7	-5,372.5	5,372.6	0.00	0.00	0.00
13,100.0	91.23	269.78	7,615.6	28.3	-5,472.5	5,472.5	0.00	0.00	0.00
13,200.0	91.23	269.78	7,613.5	28.0	-5,572.5	5,572.5	0.00	0.00	0.00
13,300.0	91.23	269.78	7,611.3	27.6	-5,672.4	5,672.5	0.00	0.00	0.00
13,400.0	91.23	269.78	7,609.2	27.2	-5,772.4	5,772.5	0.00	0.00	0.00
13,500.0	91.23	269.78	7,607.0	26.8	-5,872.4	5,872.4	0.00	0.00	0.00
13,600.0	91.23	269.78	7,604.9	26.4	-5,972.4	5,972.4	0.00	0.00	0.00
13,700.0	91.23	269.78	7,602.7	26.0	-6,072.3	6,072.4	0.00	0.00	0.00
13,800.0	91.23	269.78	7,600.6	25.6	-6,172.3	6,172.4	0.00	0.00	0.00
13,900.0	91.23	269.78	7,598.4	25.2	-6,272.3	6,272.3	0.00	0.00	0.00
14,000.0	91.23	269.78	7,596.3	24.8	-6,372.3	6,372.3	0.00	0.00	0.00
14,100.0	91.23	269.78	7,594.1	24.5	-6,472.2	6,472.3	0.00	0.00	0.00
14,135.8	91.23	269.78	7,593.4	24.3	-6,508.0	6,508.0	0.00	0.00	0.00
PPP2: 500' FNL & 1185' FWL, Sec 30									
14,200.0	91.23	269.78	7,592.0	24.1	-6,572.2	6,572.3	0.00	0.00	0.00
14,300.0	91.23	269.78	7,589.8	23.7	-6,672.2	6,672.2	0.00	0.00	0.00
14,400.0	91.23	269.78	7,587.7	23.3	-6,772.2	6,772.2	0.00	0.00	0.00
14,500.0	91.23	269.78	7,585.5	22.9	-6,872.2	6,872.2	0.00	0.00	0.00
14,600.0	91.23	269.78	7,583.4	22.5	-6,972.1	6,972.2	0.00	0.00	0.00
14,700.0	91.23	269.78	7,581.3	22.1	-7,072.1	7,072.1	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Pavo Frio 29/30 B2CD Fed Com #1H
Well: Sec 29, T18S, R29E
Wellbore: BHL: 500' FNL & 330' FWL, Sec 30
Design: Design #1

Local Co-ordinate Reference: Site Pavo Frio 29/30 B2CD Fed Com #1H
TVD Reference: WELL @ 3524.0usft (Original Well Elev)
MD Reference: WELL @ 3524.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
14,800.0	91.23	269.78	7,579.1	21.7	-7,172.1	7,172.1	0.00	0.00	0.00
14,900.0	91.23	269.78	7,577.0	21.4	-7,272.1	7,272.1	0.00	0.00	0.00
14,991.0	91.23	269.78	7,575.0	21.0	-7,363.0	7,363.0	0.00	0.00	0.00

BHL: 500' FNL & 300' FWL, Sec 30

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 550' FNL & 2600' FE - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	627,271.00	614,082.00	32.7241845	-104.0967868
KOP @ 7248' - plan hits target center - Point	0.00	0.00	7,247.5	50.0	105.0	627,321.00	614,187.00	32.7243212	-104.0964450
BHL: 500' FNL & 300' FV - plan hits target center - Point	0.00	0.00	7,575.0	21.0	-7,363.0	627,292.00	606,719.00	32.7242851	-104.1207291
PPP2: 500' FNL & 1185' - plan hits target center - Point	0.00	0.00	7,593.4	24.3	-6,508.0	627,295.32	607,574.00	32.7242894	-104.1179489
LP: 500' FNL & 2299' FV - plan hits target center - Point	0.00	0.00	7,725.0	48.1	-382.8	627,319.10	613,699.20	32.7243190	-104.0980312
FTP: 500' FNL & 2310' F - plan hits target center - Point	0.00	0.00	7,725.1	48.1	-373.0	627,319.15	613,709.00	32.7243191	-104.0979993

Mewbourne Oil Company, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
SL: 550' FNL & 2600' FEL, Sec 29
BHL: 500' FNL & 330' FWL, Sec 30

1. Geologic Formations

TVD of target	7725'	Pilot hole depth	NA
MD at TD:	14,991'	Deepest expected fresh water:	200'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler		Water	
Top of Salt			
Castile			
Base Salt	835		
Yates	985	Oil/Gas	
Seven Rivers	1370	Oil/Gas	
Queen	1950	Oil/Gas	
Grayburg	2300		
San Andres	2815	Oil/Gas	
Bone Spring	3580	Oil/Gas	
1 st Bone Spring Sand	6675		
2 nd Bone Spring Sand	7500	Target Zone	
3 rd Bone Spring Sand			
Abo			
Wolfcamp		Will Not Penetrate	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

Mewbourne Oil Company, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
SL: 550' FNL & 2600' FEL, Sec 29
BHL: 500' FNL & 330' FWL, Sec 30

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'	300'	13.375"	48	H40	STC	5.48	12.32	22.36	37.57
12.25"	0'	1325'	9.625"	36	J55	LTC	2.93	5.11	9.50	11.82
8.75"	0'	8009'	7"	26	HCP110	LTC	2.07	2.64	3.04	3.99
6.125"	7249'	14,991'	4.5"	13.5	P110	LTC	2.66	3.09	3.23	4.04
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, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
SL: 550' FNL & 2600' FEL, Sec 29
BHL: 500' FNL & 330' FWL, Sec 30

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	75	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.	135	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.	390	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
Liner	315	11.2	2.97	17	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, etc.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	1125'	25%
Liner	7249'	25%

Mewbourne Oil Company, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
SL: 550' FNL & 2600' FEL, Sec 29
BHL: 500' FNL & 330' FWL, Sec 30

4. Pressure Control Equipment

	Variance: None
--	----------------

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	X	1500#
			Blind Ram	X	3000#
			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.
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	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. <div style="margin-left: 40px;"> <ul style="list-style-type: none"> Provide description here </div> See attached schematic.

Mewbourne Oil Company, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
SL: 550' FNL & 2600' FEL, Sec 29
BHL: 500' FNL & 330' FWL, Sec 30

5. Mud Program

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	300'	FW Gel	8.6-8.8	28-34	N/C
300'	1325'	Saturated Brine	10.0	28-34	N/C
1325'	7248'	Cut Brine	8.6-9.7	28-34	N/C
7248'	7725'	FW w/ Polymer	8.6-10	30-40	<20cc

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

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

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (7249') 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

Additional logs planned		Interval
X	Gamma Ray	7249' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

Mewbourne Oil Company, Pavo Frio 29/30 B2CD Fed Com #1H
Sec 29, T18S, R29E
SL: 550' FNL & 2600' FEL, Sec 29
BHL: 500' FNL & 330' FWL, Sec 30

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4017 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

___ Directional Plan

___ Other, describe



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

SUPO Data Report

10/28/2018

APD ID: 10400029504

Submission Date: 05/31/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Type: OIL WELL

Well Number: 1H

Well Work Type: Drill

Highlighted data
reflects the most
recent changes

[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PavoFrio29_30B2CDFedCom1H_existingroadmap_20180417085637.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? YES

New Road Map:

New road type: LOCAL

Length: Feet Width (ft.): 20

Max slope (%): 3 Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: None

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

Access surfacing type: OTHER

Access topsoil source: OFFSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth:

Offsite topsoil source description: None

Onsite topsoil removal process:

Access other construction information: None

Access miscellaneous information: None

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: None

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

PavoFrio29_30B2CDFedCom1H_existingwellmap_20180417085706.pdf

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: a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color that blends in with the surrounding landscape. The paint color will be one of the colors from the BLM Standard Environmental Colors chart selected by the BLM authorized officer. b. All proposed production facilities that are located on the well pad will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location. c. Production from the proposed well will be located on the south edge of location. d. If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation of construction. e. An electric line will be applied for through a sundry notice or BLM right of way at a later date.

Production Facilities map:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

PavoFrio29_30B2CDFedCom1H_productionfacilitymap_20180417091349.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

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

Describe type:

Source latitude: 32.705666

Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 2515

Source volume (gal): 105630

Water source type: IRRIGATION

Source longitude: -104.12318

Source volume (acre-feet): 0.32416615

Water source and transportation map:

PavoFrio29_28B2CDFedCom1H_watersourceandtransmap_20180417085944.pdf

Water source comments:

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:

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:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche

Construction Materials source location attachment:

PavoFrio29_28B2CDFedCom1H_calichesourceandtransmap_20180417090009.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 1515 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

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:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

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

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

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

Section 9 - Well Site Layout

Well Site Layout Diagram:

PavoFrio29_30B2CDFedCom1H_wellsitelayout_20180417090052.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: PAVO FRIO CD & BA

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance (acres): 3.616	Well pad interim reclamation (acres): 1.212	Well pad long term disturbance (acres): 2.404
Road proposed disturbance (acres): 0	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 3.616	Total interim reclamation: 1.212	Total long term disturbance: 2.404

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

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Various brush & grasses

Existing Vegetation Community at the road attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

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

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Bradley

Last Name: Bishop

Phone: (575)393-5905

Email: bbishop@mewbourne.com

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

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: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT, STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: NMSLO HOBBS, NM

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT, STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: NMSLO HOBBS, NM

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2CD FED COM

Well Number: 1H

Fee Owner: COG Operating, LLC ETAL

Fee Owner Address: 1293 CR 305, Midland, TX 79701

Phone: (432)221-0500

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SUA

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: NONE

Use a previously conducted onsite? YES

Previous Onsite information: MAR 6 2018 Met w/RRC Surveying & staked location @ 550' FNL & 2450' FEL, Sec 29, T18S, R29E, Eddy Co., NM. Location was unacceptable due to large cut. Re-staked location @ 550' FNL & 2600' FEL, Sec 29, T18S, R29E, Eddy Co., NM. (Elevation @ 3497'). Pit area will be to E w/ smaller 350' x 450' pad. Topsoil will be stockpiled 30' wide on S side. Reclaim 60' S, E, W. A battery pad is staked to the N of the well pad. Road is off the W side of location. Will require onsite w/BLM.

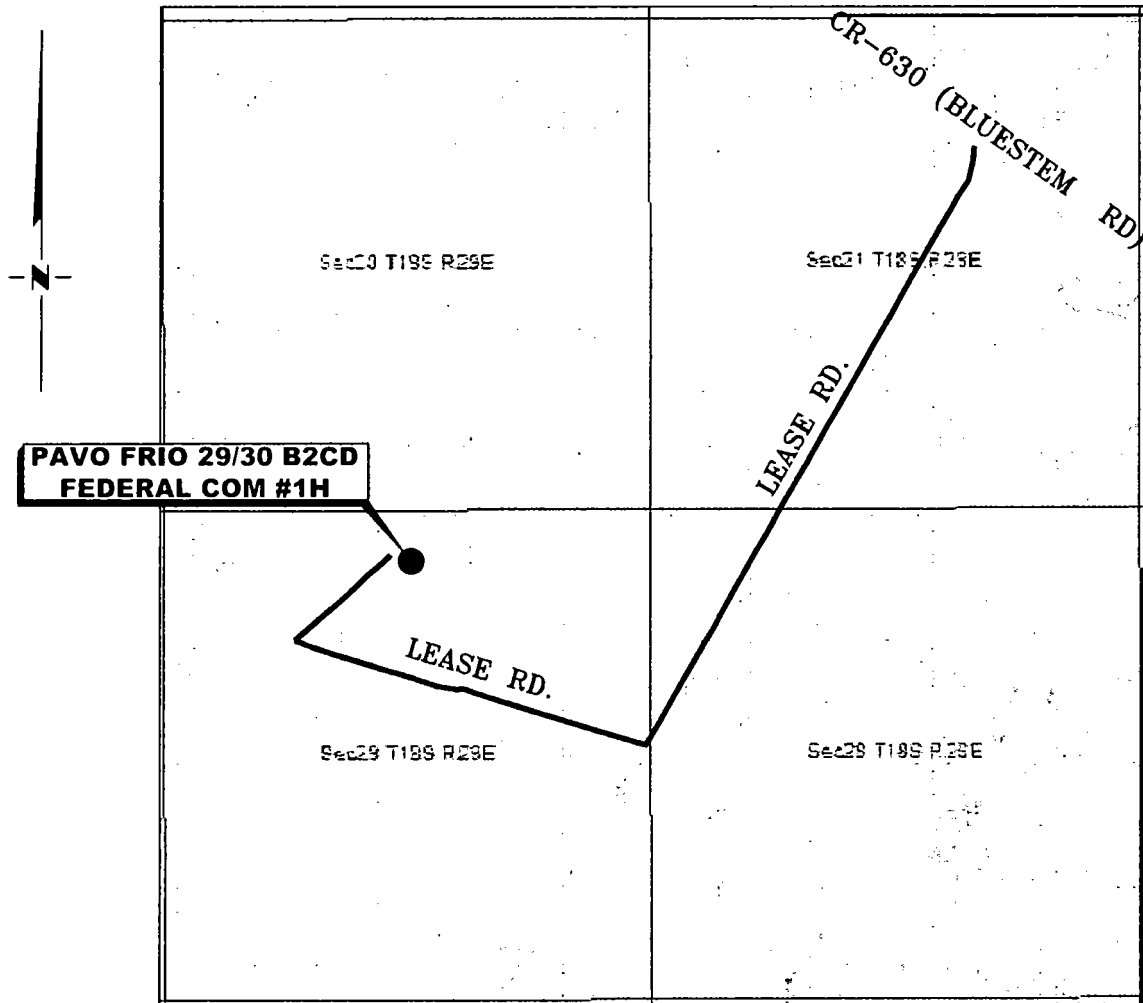
Other SUPO Attachment

PavoFrio29_30B2CDFedCom1H_interimreclamationdiagram_20180417090326.pdf

PavoFrio29_39B2CDFedCom1H_gascaptureplan_20180417090739.pdf

VICINITY MAP

NOT TO SCALE



*SECTION 29, TWP. 18 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO*

OPERATOR: Mewbourne Oil Company LOCATION: 550' FNL & 2600' FEL
 LEASE: Pavo Frio 29/30 B2CD Federal Com ELEVATION: 3497'
 WELL NO.: 1H

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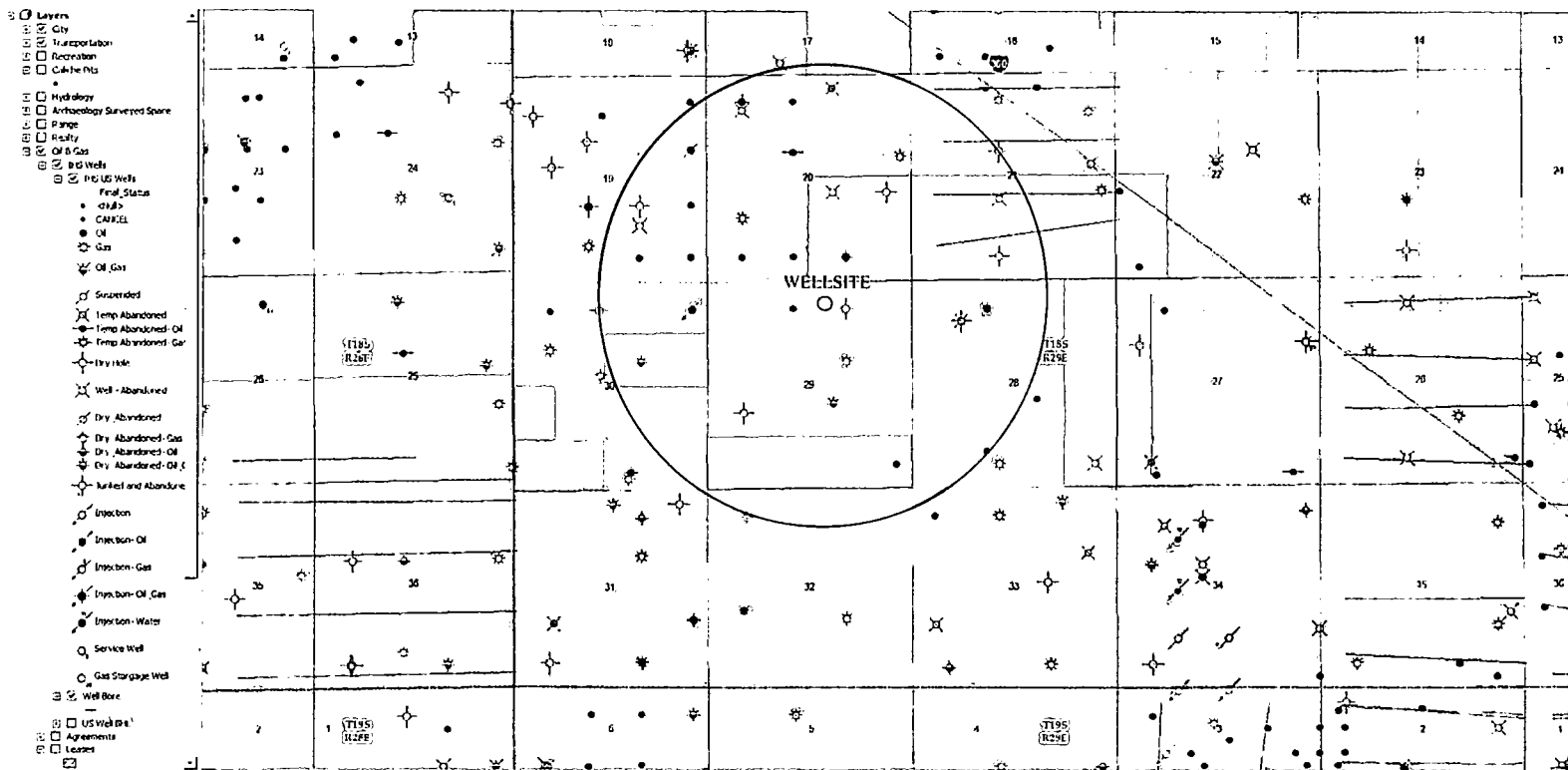
NO.	REVISION	DATE
JOB NO.: LS1802231		
DWG. NO.: 1802231-3		

RRC

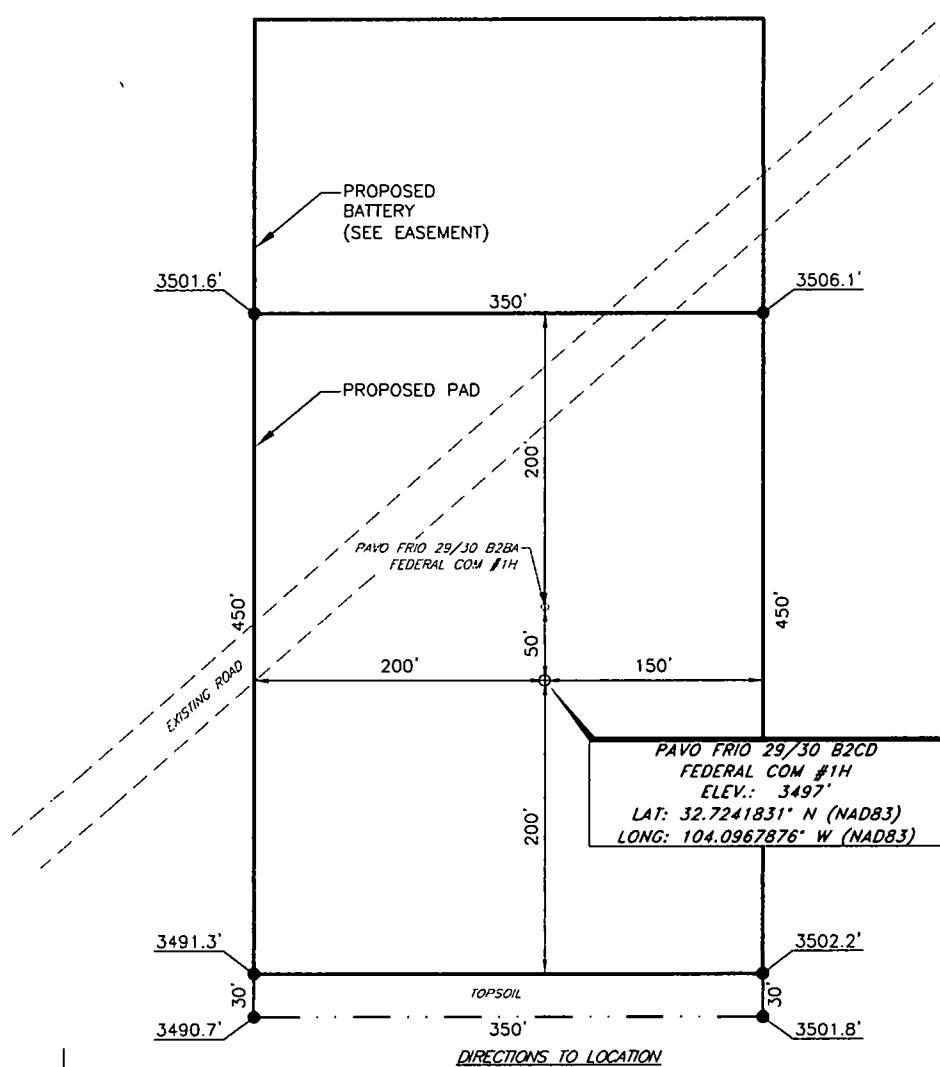
308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 02-28-2018
SURVEYED BY: ML/TF
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 1

EXISTING WELL MAP PAVO FRIO 29/30 B2CD FEDERAL COM #1H



MEWBOURNE OIL COMPANY
PAVO FRIO 29/30 B2CD FEDERAL COM #1H
(550' FNL & 2600' FEL)
SECTION 29, T18S, R29E
N. M. P. M., EDDY COUNTY, NEW MEXICO



From the intersection of CR-360 (Bluestem Road) and CR-210,
Go Northwest on CR-360 approx. 1.0 miles to lease road on left;
Turn left and go Southwest approx. 1.4 miles to a lease road on the right;
Turn right and go Northwest approx. 0.7 miles to road on right;
Turn right and go Northeast on existing road approx. 0.3 miles to location.

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



SCALE: 1" = 100'
 0 50' 100'

BEARINGS ARE GRID NAD 83
 NM EAST
 DISTANCES ARE HORIZ. GROUND.

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NO.	REVISION	DATE
JOB NO.:	LS1802231	
DWG. NO.:	1802231-4	

RRC

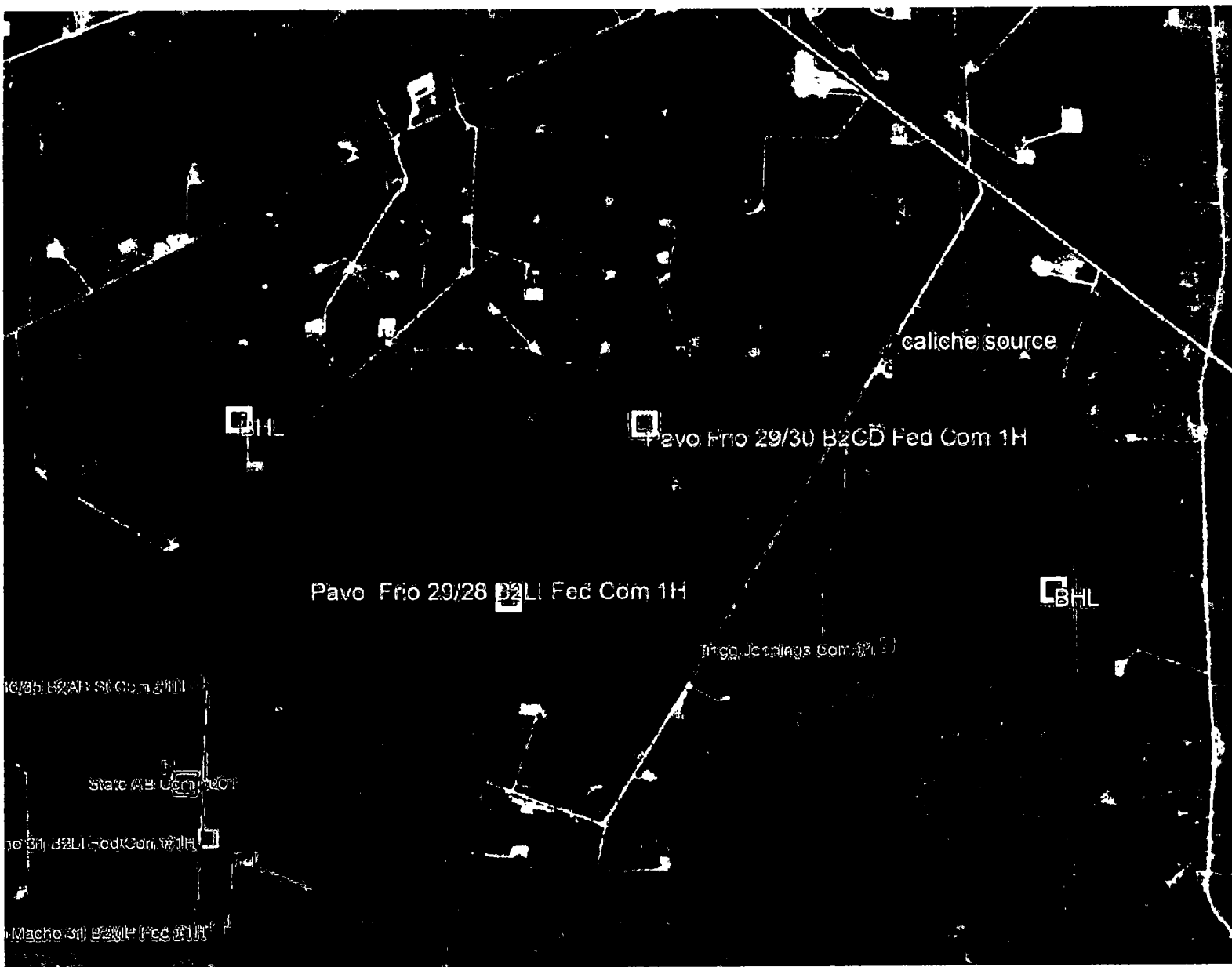
308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE:	1" = 1000'
DATE:	02/28/2018
SURVEYED BY:	ML/TF
DRAWN BY:	KAKN
APPROVED BY:	RMH
SHEET:	1 OF 1

Wild Turkey 33235 S2A6 SI Cam #1

State AP Cor #1
water source

Pave Macho 01 B2L1 Pod Cam #1



caliche source

Pavo Frio 29/30 B2CD Fed Com 1H

Pavo Frio 29/28 B2LI Fed Com 1H

BHL

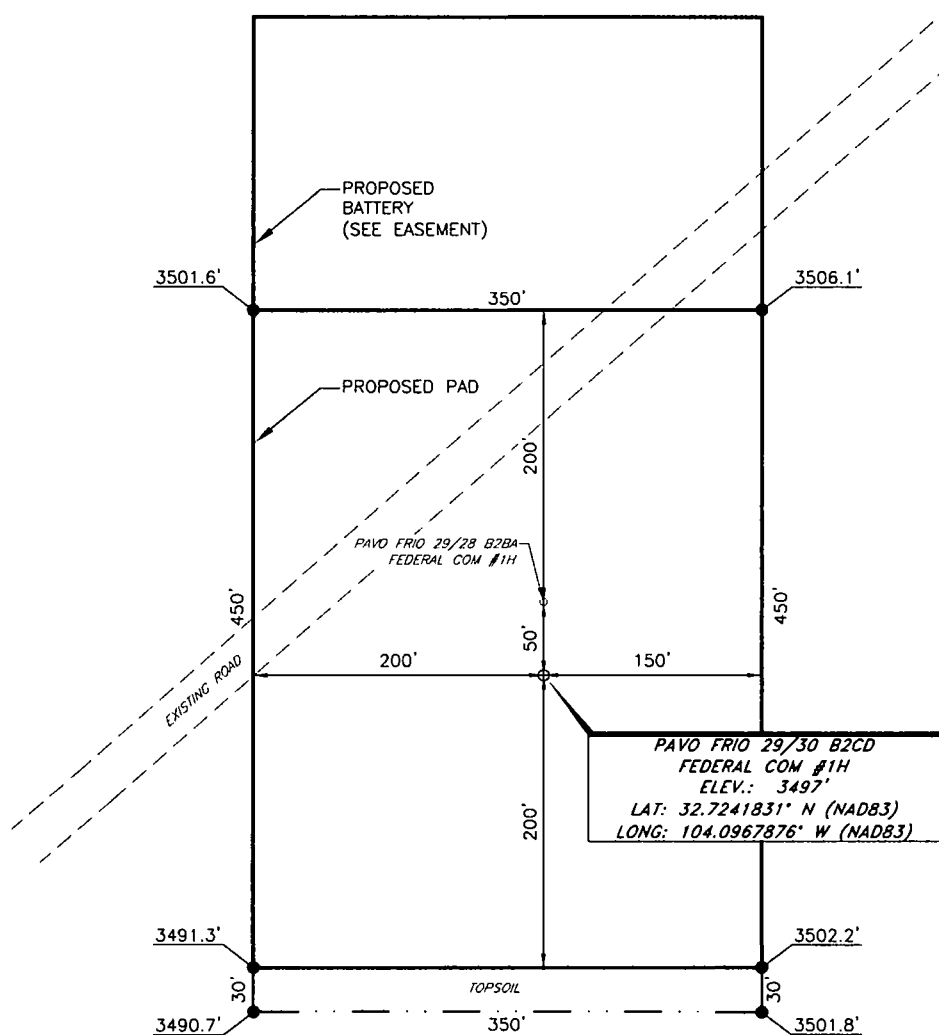
Ingg. Jennings Com. 871

State AB Com. 201

to 31 B2LI Fed Com 1H

Macho 31 B2LI Fed Com 1H

MEWBOURNE OIL COMPANY
PAVO FRIO 29/30 B2CD FEDERAL COM #1H
(550' FNL & 2600' FEL)
SECTION 29, T18S, R29E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

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 0 50' 100'

BEARINGS ARE GRID NAD 83
 NM EAST
 DISTANCES ARE HORIZ. GROUND.



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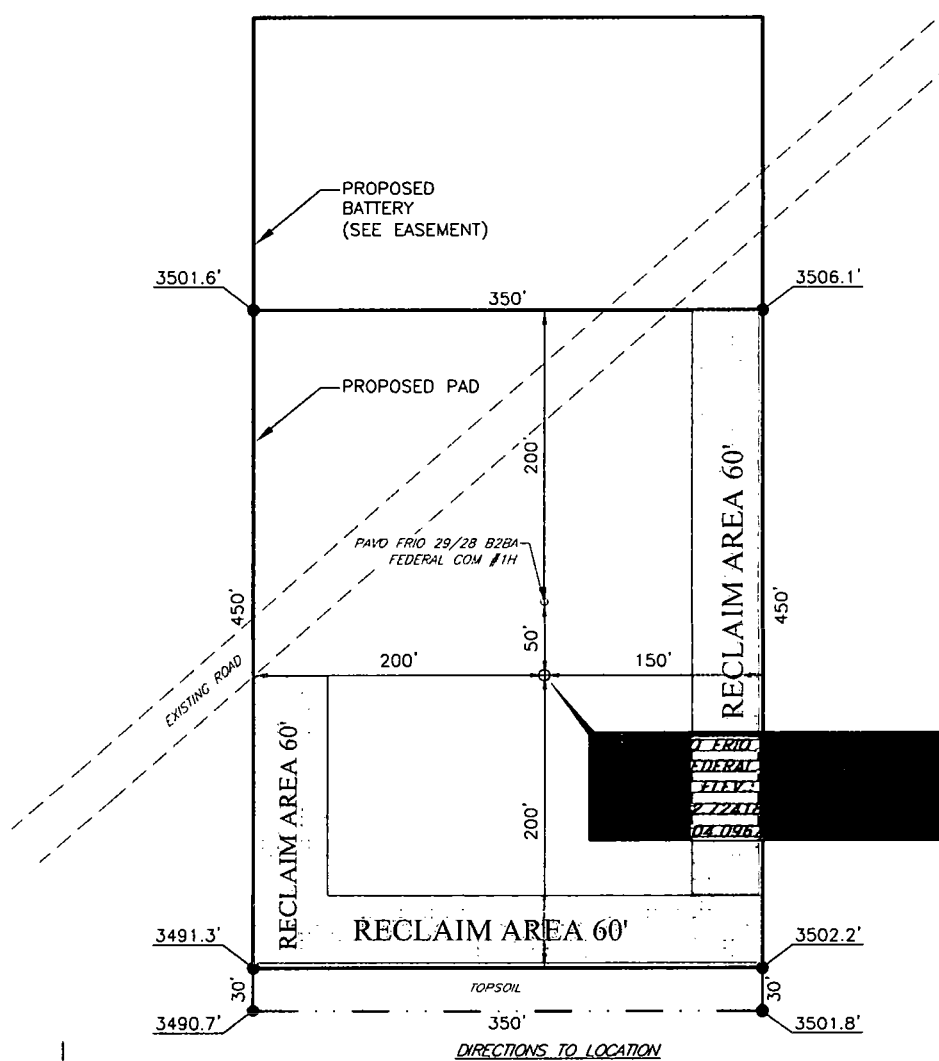
NO.	REVISION	DATE
JOB NO.:	LS1802231	
DWG. NO.:	1802231-4	

RRC

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

SCALE: 1" = 1000'
DATE: 02/28/2018
SURVEYED BY: ML/TF
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 1

MEWBOURNE OIL COMPANY
PAVO FRIO 29/30 B2CD FEDERAL COM #1H
(550' FNL & 2600' FEL)
SECTION 29, T18S, R29E
N. M. P. M., EDDY COUNTY, NEW MEXICO



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Turn right and go Northwest approx. 0.7 miles to road on right;
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0 50' 100'

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NM EAST
DISTANCES ARE HORIZ. GROUND.

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Robert M. Howett
Robert M. Howett

NM PS 19680



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NO.	REVISION	DATE
JOB NO.:	LS1802231	
DWG. NO.:	1802231-4	

RRC

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

SCALE:	1" = 1000'
DATE:	02/28/2018
SURVEYED BY:	ML/TF
DRAWN BY:	KAKN
APPROVED BY:	RMH
SHEET:	1 OF 1

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

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?

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):

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

10/28/2018

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: