

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 14 2019

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM056428

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

RAVO ERIO.29/30/B2KL/FED.COM

325681

9. API Well No.

30-015-45996

10. Field and Pool, or Field Unit
PALMILLO EAST BONE SPRING OIL / B

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 29 / T18S / R29E / NMP

1a. Type of work: ☒ DRILL ☐ REENTER
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone

2. Name of Operator
MEWBOURNE OIL COMPANY

3a. Address
PO Box 5270 Hobbs NM 88240

3b. Phone No. (include area code)
(575)393-5905

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface NWSE / 1980 FSL / 2435 FEL / LAT 32.7166199 / LONG -104.0962595
At proposed prod. zone LOT 3 / 1980 FSL / 100 FWL / LAT 32.716585 / LONG -104.1215038

14. Distance in miles and direction from nearest town or post office*
20 miles

12. County or Parish
EDDY

13. State
NM

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
185 feet

16. No of acres in lease
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

19. Proposed Depth
7598 feet / 15266 feet

20. BLM/BIA Bond No. in file
FED: NM1693

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3466 feet

22. Approximate date work will start*
07/23/2018

23. Estimated duration
60 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
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
08/08/2018

Title
Regulatory

Approved by (Signature)
(Electronic Submission)

Name (Printed/Typed)
Cody Layton / Ph: (575)234-5959

Date
05/09/2019

Title
Assistant Field Manager Lands & Minerals

Office
CARLSBAD

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

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

APPROVED WITH CONDITIONS
Approval Date: 05/09/2019

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

1. SHL: NWSE / 1980 FSL / 2435 FEL / TWSP: 18S / RANGE: 29E / SECTION: 29 / LAT: 32.7166199 / LONG: -104.0962595 (TVD: 27 feet, MD: 27 feet)
PPP: NESW / 1980 FSL / 2538 FWL / TWSP: 18S / RANGE: 29E / SECTION: 29 / LAT: 32.7166178 / LONG: -104.097249 (TVD: 7674 feet, MD: 7801 feet)
PPP: NWSW / 1980 FSL / 1319 FWL / TWSP: 18S / RANGE: 29E / SECTION: 29 / LAT: 32.7166127 / LONG: -104.1012125 (TVD: 7691 feet, MD: 9025 feet)
PPP: NESE / 1980 FSL / 0 FEL / TWSP: 18S / RANGE: 29E / SECTION: 30 / LAT: 32.716607 / LONG: -104.1055012 (TVD: 7671 feet, MD: 10344 feet)
BHL: LOT 3 / 1980 FSL / 100 FWL / TWSP: 18S / RANGE: 29E / SECTION: 30 / LAT: 32.716585 / LONG: -104.1215038 (TVD: 7598 feet, MD: 15266 feet)

BLM Point of Contact

Name: Katrina Ponder

Title: Geologist

Phone: 5752345969

Email: kponder@blm.gov

CONFIDENTIAL

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.

CONFIDENTIAL

PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM056428
WELL NAME & NO.:	Pavo Frio 29/30 B2KL Fed Com 1H
SURFACE HOLE FOOTAGE:	1980'/S & 2435'/E
BOTTOM HOLE FOOTAGE:	1980'/S & 100'/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
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

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 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after 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 23%.**
- 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.
4. The minimum required fill of cement behind the **4-1/2** inch production liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties

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

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours.

WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS 050119



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

Operator Certification Data Report

05/10/2019

Operator Certification

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

NAME: Bradley Bishop

Signed on: 08/08/2018

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

05/10/2019

APD ID: 10400029655

Submission Date: 08/08/2018

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400029655

Tie to previous NOS?

Submission Date: 08/08/2018

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_30B2KLFedCom1H_operatorletterofdesignation_20180420100259.pdf

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: PO Box 5270

Zip: 88240

Operator PO Box:

Operator City: Hobbs

State: NM

Operator Phone: (575)393-5905

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: PAVO FRIO 29/30 B2KL 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 B2KL 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

FRIO KL & JI

Well Class: HORIZONTAL

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_30B2KLFedCom1H_wellplat_20181106071653.pdf

Well work start Date: 07/23/2018

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	198 0	FSL	243 5	FEL	18S	29E	29	Aliquot NWSE	32.71661 99	- 104.0962 595	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 056428	346 6	27	27
KOP Leg #1	198 0	FSL	243 5	FEL	18S	29E	29	Aliquot NWSE	32.71661 91	- 104.0962 605	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 056428	- 376 3	722 9	722 9
PPP Leg #1	198 0	FSL	253 8	FWL	18S	29E	29	Aliquot NESW	32.71661 78	- 104.0972 49	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 056428	- 420 8	780 1	767 4

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** PAVO FRIO 29/30 B2KL 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	198 0	FSL	131 9	FWL	18S	29E	29	Aliquot NWS W	32.71661 27	- 104.1012 125	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 137447	- 422 5	902 5	769 1
PPP Leg #1	198 0	FSL	0	FEL	18S	29E	30	Aliquot NESE	32.71660 7	- 104.1055 012	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 056426	- 420 5	103 44	767 1
EXIT Leg #1	198 0	FSL	100	FWL	18S	29E	30	Lot 3	32.71658 5	- 104.1215 038	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 056426	- 413 2	152 66	759 8
BHL Leg #1	198 0	FSL	100	FWL	18S	29E	30	Lot 3	32.71658 5	- 104.1215 038	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 056426	- 413 2	152 66	759 8

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

Statement Accepting Responsibility for Operations

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

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

Lease Number: NMNM 056428, NMNM 056426

Legal Description of Land: Section 29, T18S, R29E Eddy County, New Mexico.
Location @ 1980 FSL & 2435 FEL

Formation (if applicable): Bone Spring

Bond Coverage: \$150,000

BLM Bond File: NM1693 nationwide, NMB000919

Authorized Signature: _____



Name: Bradley Bishop
Title: Regulatory Manager

Date: 4-13-18



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

Drilling Plan Data Report

05/10/2019

APD ID: 10400029655

Submission Date: 08/08/2018

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3466	27	27		NONE	No
2	TOP SALT	3011	470	470	SALT	NONE	No
3	BOTTOM SALT	2661	820	820	SALT	NONE	No
4	YATES	2491	990	990	SANDSTONE	NATURAL GAS,OIL	No
5	SEVEN RIVERS	2151	1330	1330	DOLOMITE	NATURAL GAS,OIL	No
6	QUEEN	1541	1940	1940	SANDSTONE,DOLOMITE	NATURAL GAS,OIL	No
7	GRAYBURG	1161	2320	2320		NONE	No
8	SAN ANDRES	661	2820	2820	DOLOMITE	NATURAL GAS,OIL	No
9	BONE SPRING LIME	-229	3710	3710	LIMESTONE,SHALE	NATURAL GAS,OIL	No
10	BONE SPRING 1ST	-3129	6610	6610	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 2ND	-3979	7460	7460	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 15266

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 variance is also requested for the use of a multibowl wellhead. See attached schematics.

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

ock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Choke Diagram Attachment:

- Pavo_Frio_29_30_B2KL_Fed_Com_1H_3M_BOPE_Choke_Diagram_20180806133035.pdf
- Pavo_Frio_29_30_B2KL_Fed_Com_1H_Flex_Line_Specs_20180806133050.pdf

BOP Diagram Attachment:

- Pavo_Frio_29_30_B2KL_Fed_Com_1H_3M_BOPE_Schematic_20180806133112.pdf
- Pavo_Frio_29_30_B2KL_Fed_Com_1H_5M_Multi_Bowl_WH_20180806133142.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	3493	3193	300	H-40	48	STC	5.61	12.6	DRY	22.36	DRY	37.67
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	1150	0	1150	3493	2343	1150	J-55	36	LTC	3.38	5.89	DRY	10.94	DRY	13.62
3	PRODUCTION	8.75	7.0	NEW	API	N	0	7987	0	7707	3493	-4214	7987	P-110	26	LTC	2.18	2.79	DRY	3.05	DRY	4
4	LINER	6.125	4.5	NEW	API	N	7229	15266	7229	7707	-3736	-4214	8037	P-110	13.5	LTC	2.66	3.1	DRY	3.12	DRY	3.86

Casing Attachments

Casing ID: 1String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL 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_B2KL_Fed_Com_1H_Csg_Assumptions_20180806133749.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pavo_Frio_29_30_B2KL_Fed_Com_1H_Csg_Assumptions_20180806133758.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pavo_Frio_29_30_B2KL_Fed_Com_1H_Csg_Assumptions_20180806133807.pdf

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	80	2.12	12.5	170	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		116	300	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	522	105	2.12	12.5	223	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		522	1150	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		950	5515	410	2.12	12.5	870	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		5515	7987	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
INNER	Lead		7229	15266	325	2.97	11.2	965	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

Describe the mud monitoring system utilized: Visual monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Compressive Strength (lbs/100 sqft)	Temperature	Viscosity (CP)	Fluidity (ppm)	Water Retention (cc)	Additional Characteristics
-----------	--------------	----------	------------------	----------------------	---------------------	-------------------------------------	-------------	----------------	----------------	----------------------	----------------------------

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL 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	1150	SALT SATURATED	10	10							
1150	7229	WATER-BASED MUD	8.6	9.5							
7229	7707	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 (7229') 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: 4008

Anticipated Surface Pressure: 2329.84

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_B2KL_Fed_Com_1H_H2S_Plan_20180806135159.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL FED COM

Well Number: 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Pavo_Frio_29_30_B2KL_Fed_Com_1H_Dir_Plan_20180806135233.pdf

Pavo_Frio_29_30_B2KL_Fed_Com_1H_Dir_Plot_20180806135241.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Pavo_Frio_29_30_B2KL_Fed_Com_1H_OCD_Sheet_20180806135308.pdf

Pavo_Frio_29_30_B2KL_Fed_Com_1H_Drlg_Program_20190111082221.docx

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

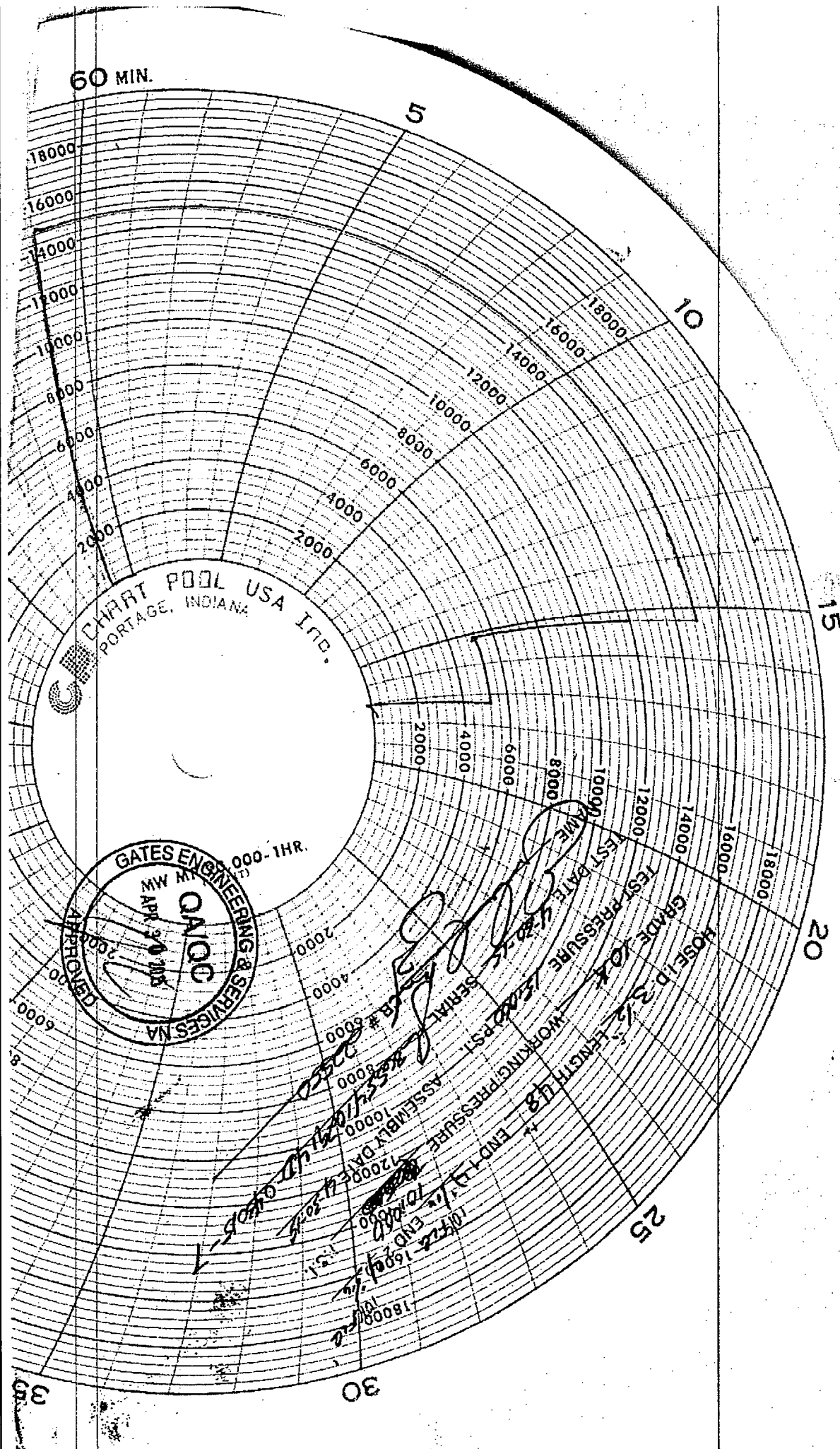
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in 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 :	QUALITY	Production:
Date :	4/30/2015	Date :
Signature :		Signature :

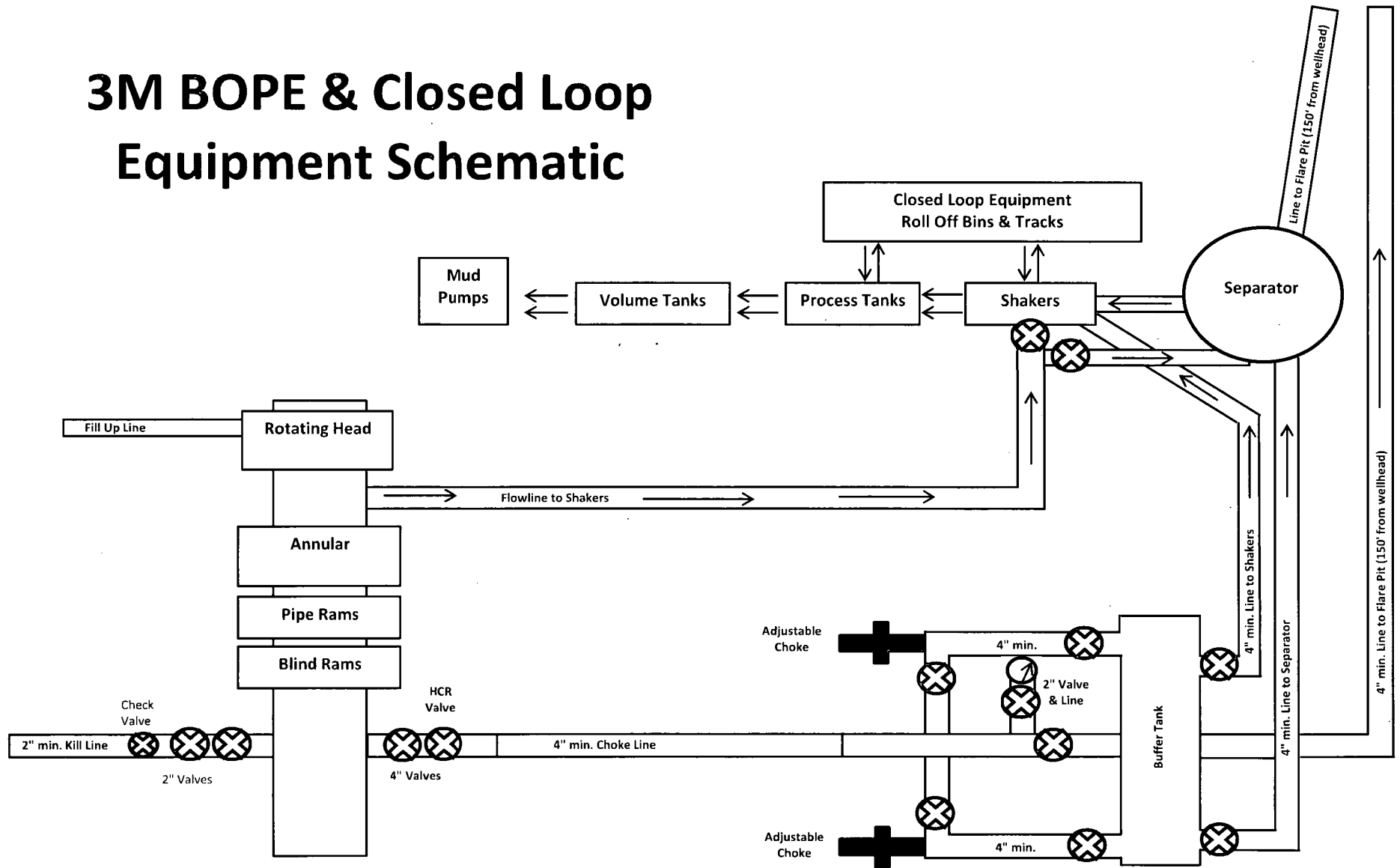
PRODUCTION
4/30/2015

Form PTC - 01 Rev.0/2



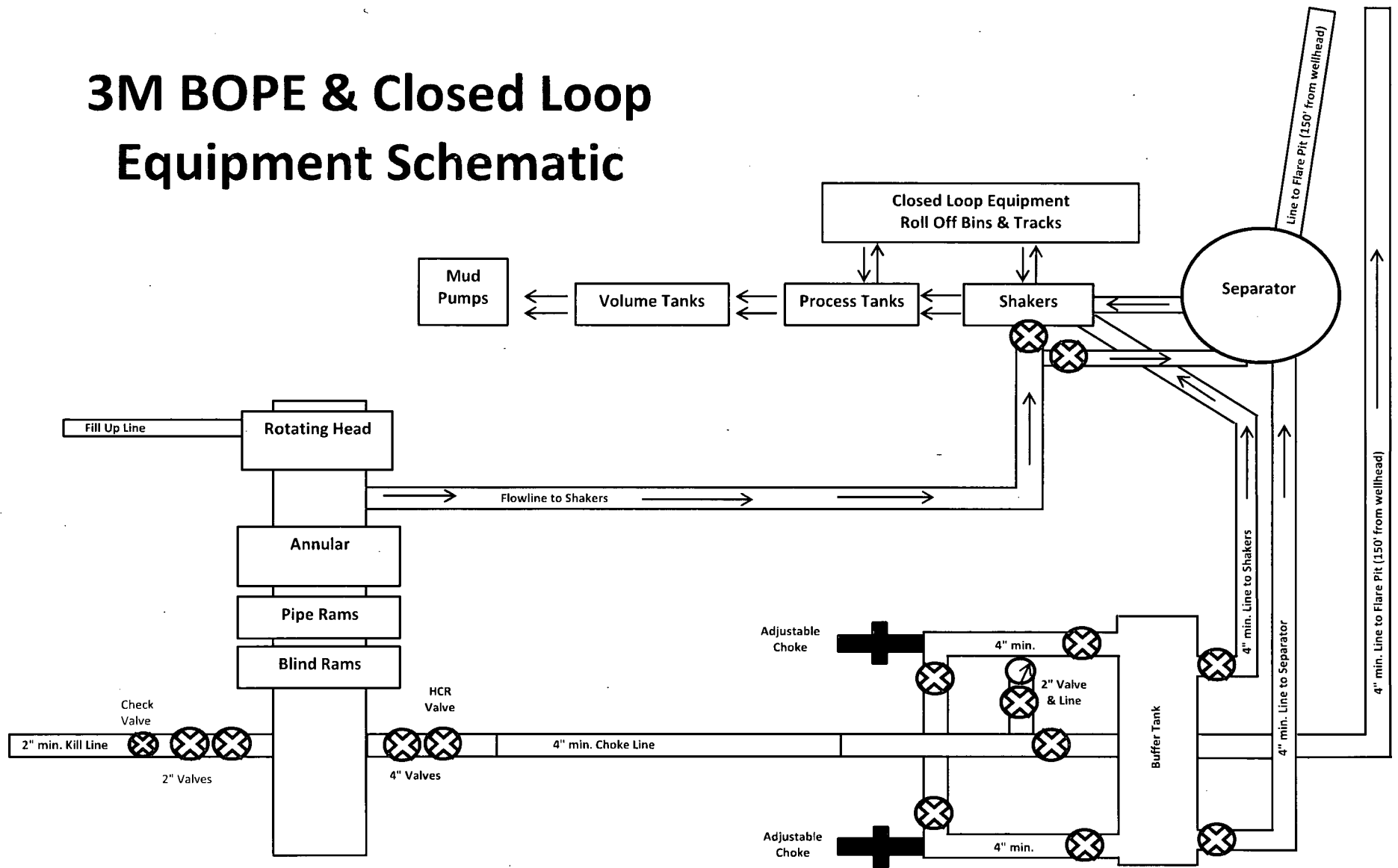


3M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

3M BOPE & Closed Loop Equipment Schematic



Drawing not to scale



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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 :

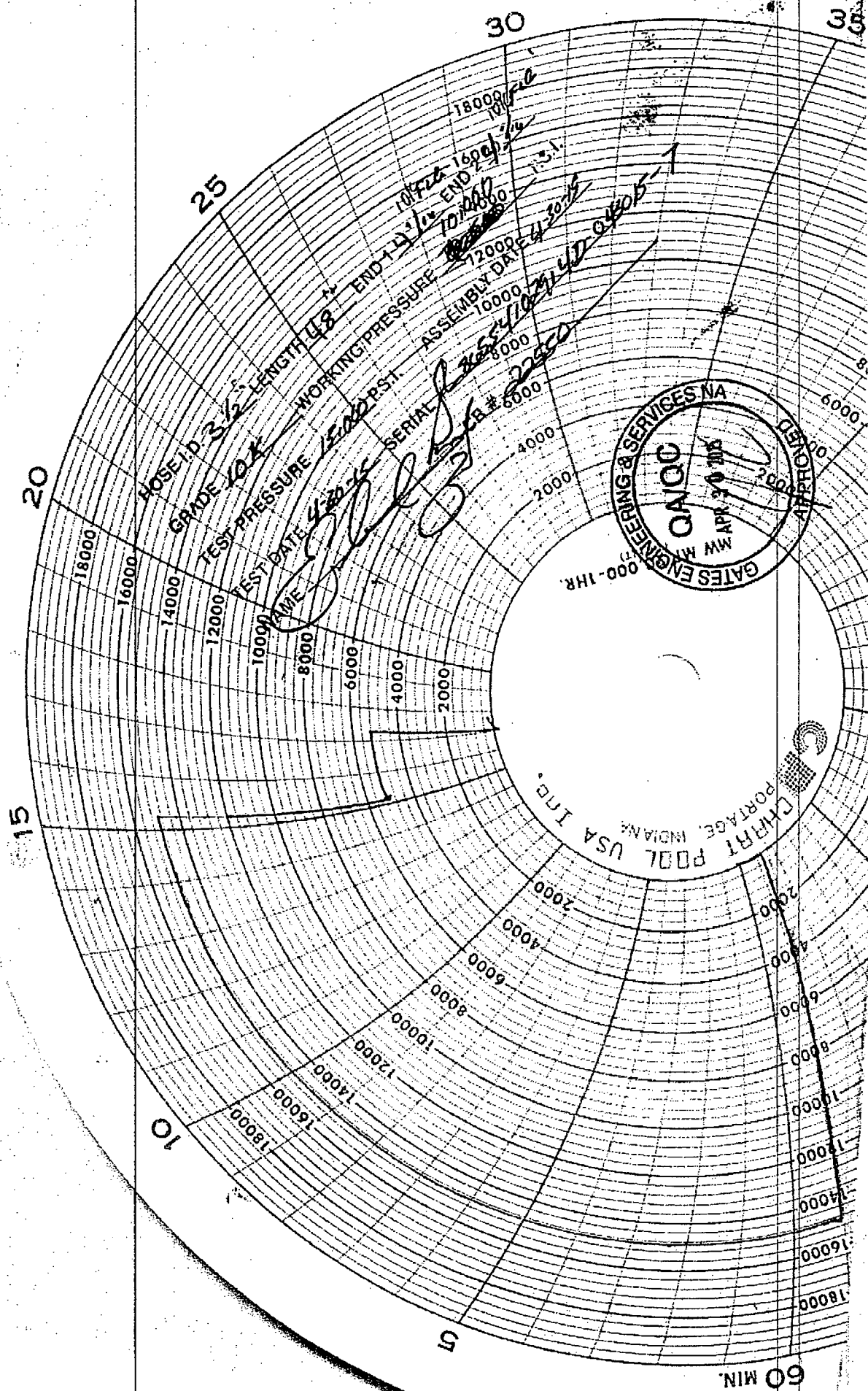
QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:
Date :
Signature :

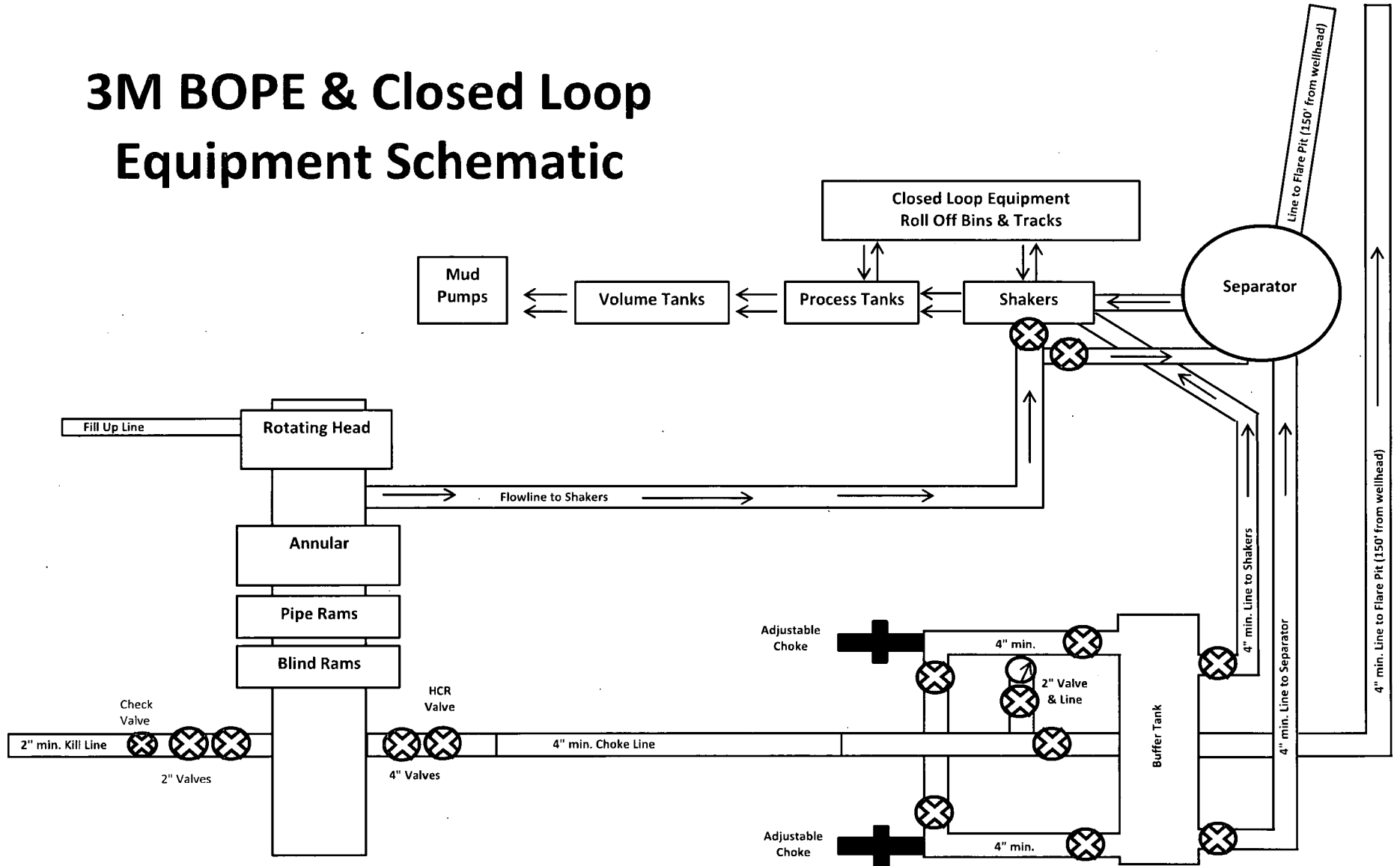
PRODUCTION
4/30/2015
<i>Justin Cropper</i>

Form PTC - 01 Rev.02





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

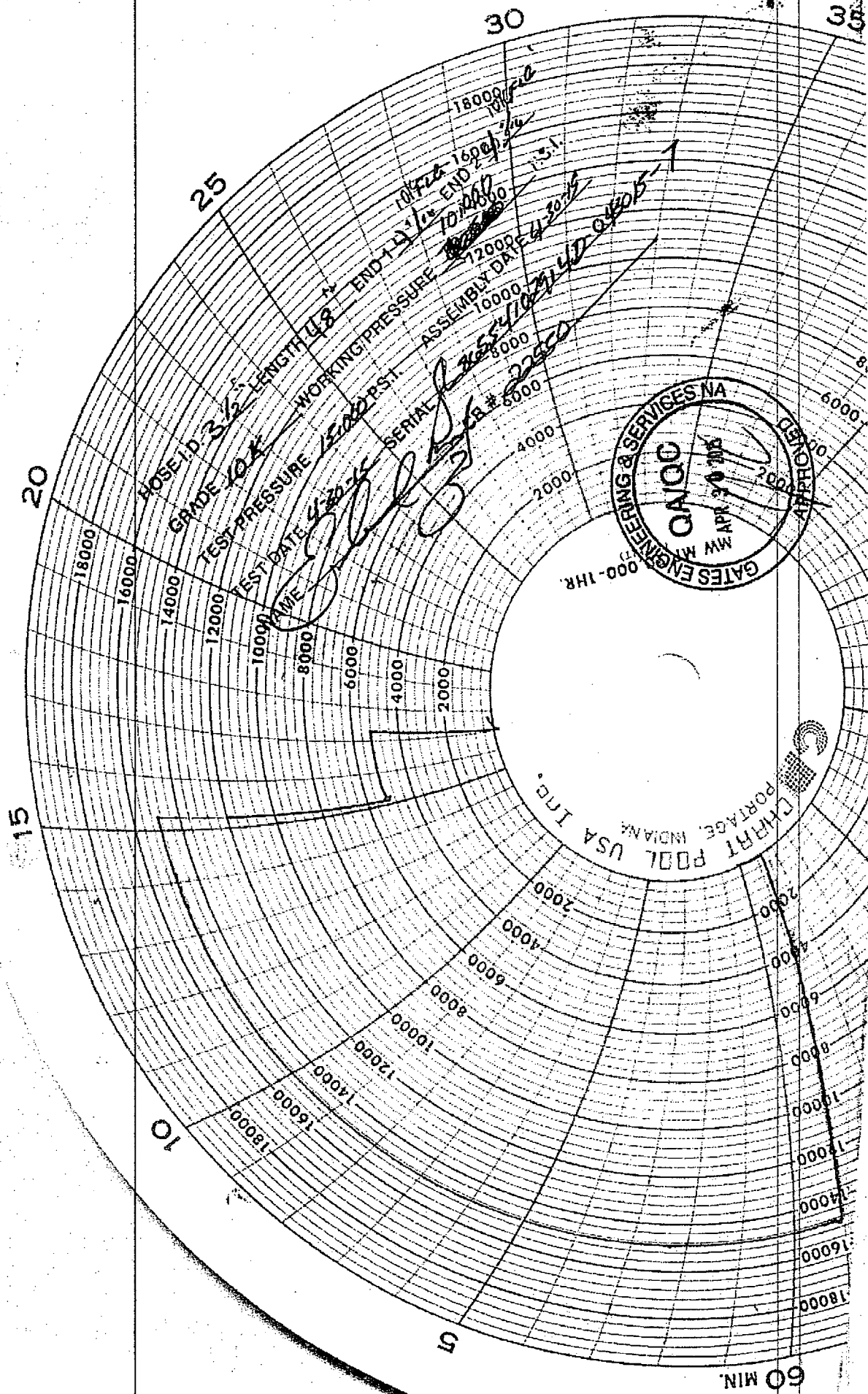
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in 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:
Date :	4/30/2015	Date :
Signature :		Signature :

PRODUCTION
4/30/2015

Form PTC - 01 Rev.0/2







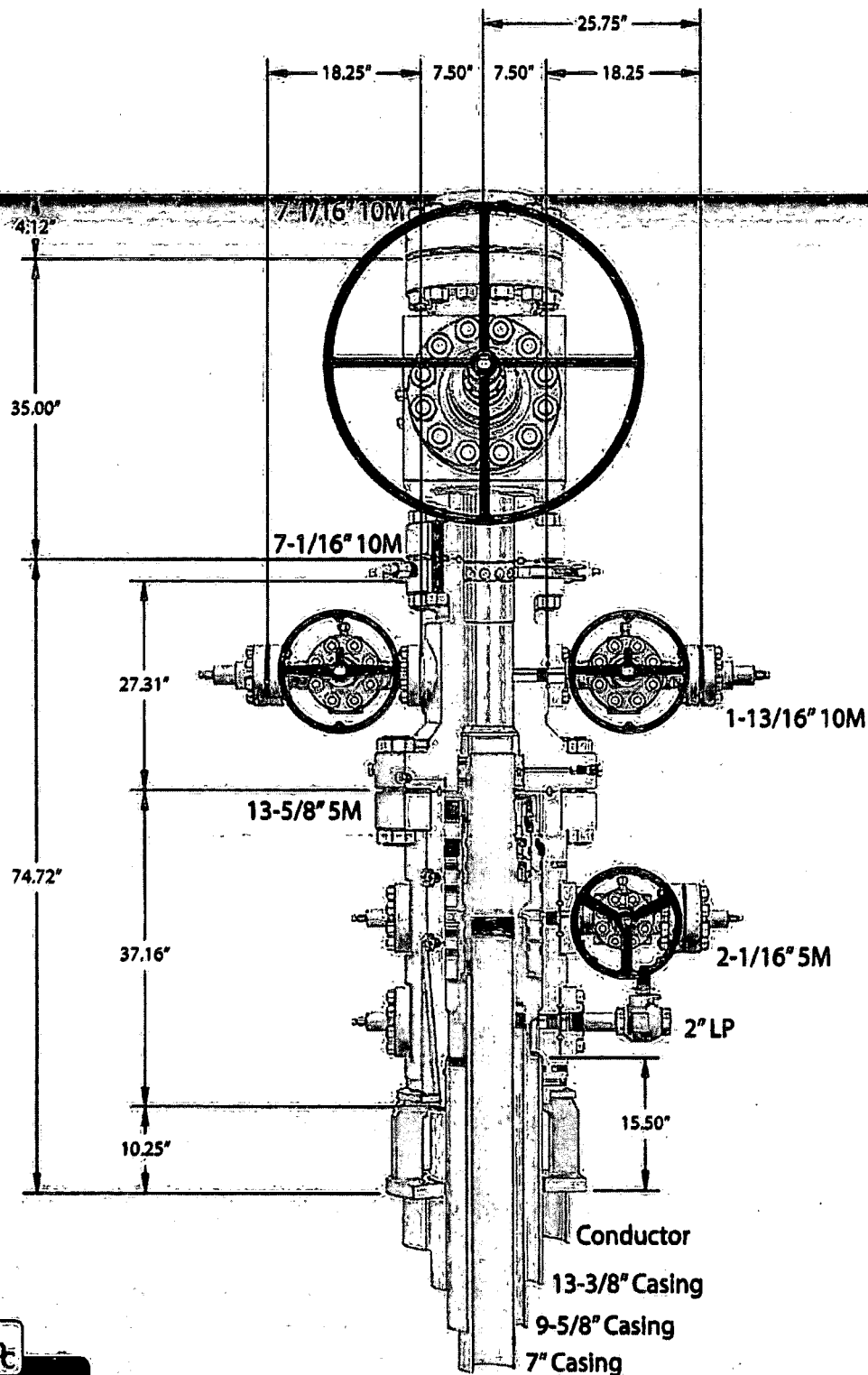
CAMERON

A Schlumberger Company

13-5/8" MN-DS Wellhead System

Ground Level

Ground Level



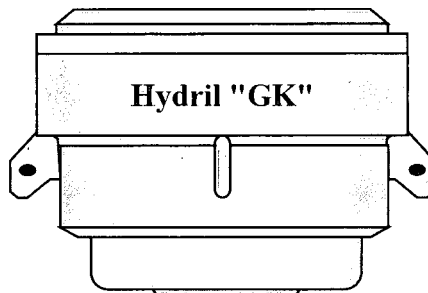
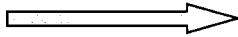
MEWBOURNE
OIL COMPANY

C7585
Rev. 02

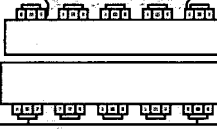
NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

Capping Plug 57" conductor cut-off
79

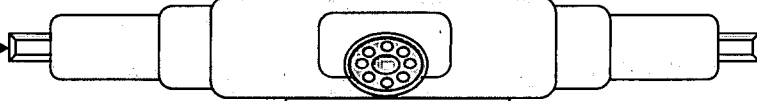
Hydril "GK"
13 5/8" 3M



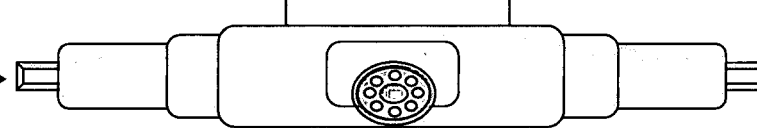
Hydril "GK"



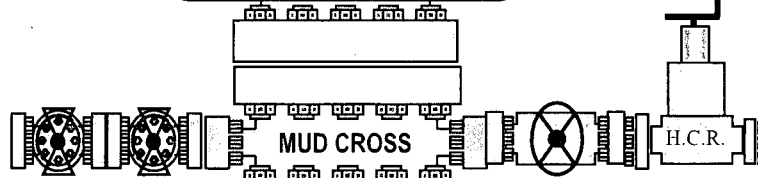
Cameron Type U
13 5/8" 3M



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

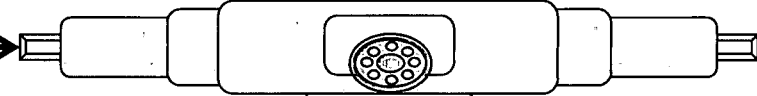


BLIND RAMS

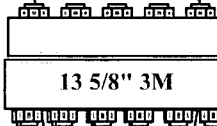


MUD CROSS

H.C.R.



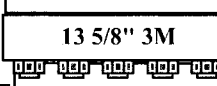
7" RAMS



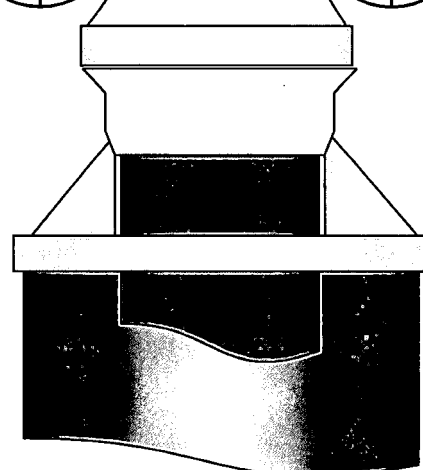
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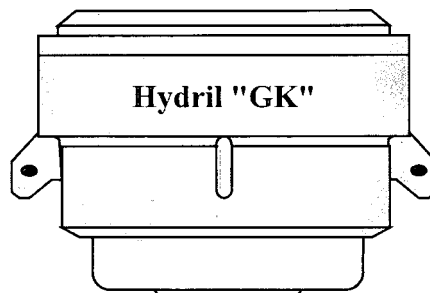
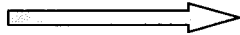
13 5/8" 3M



13 5/8" 3M

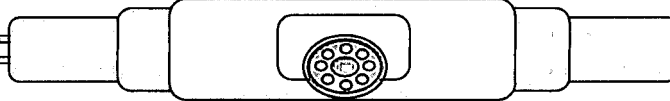


Hydril "GK"
13 5/8" 3M



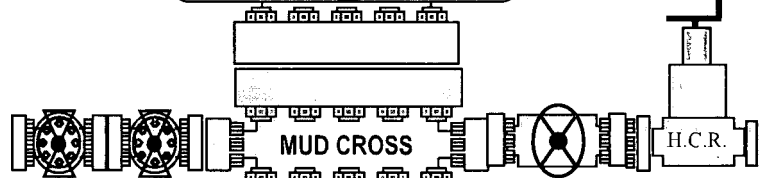
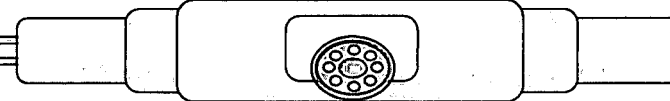
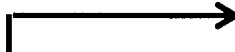
Hydril "GK"

Cameron Type U
13 5/8" 3M



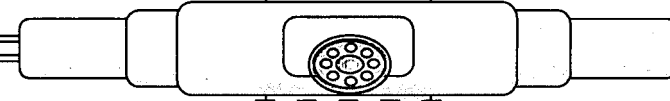
4 1/2"x 5 7/8" VBR

BLIND RAMS



MUD CROSS

H.C.R.

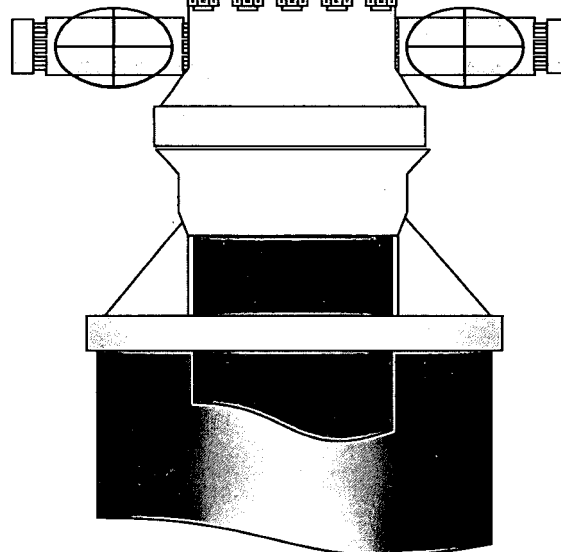


7" RAMS

13 5/8" 3M

13 5/8" 3M

13 5/8" 3M





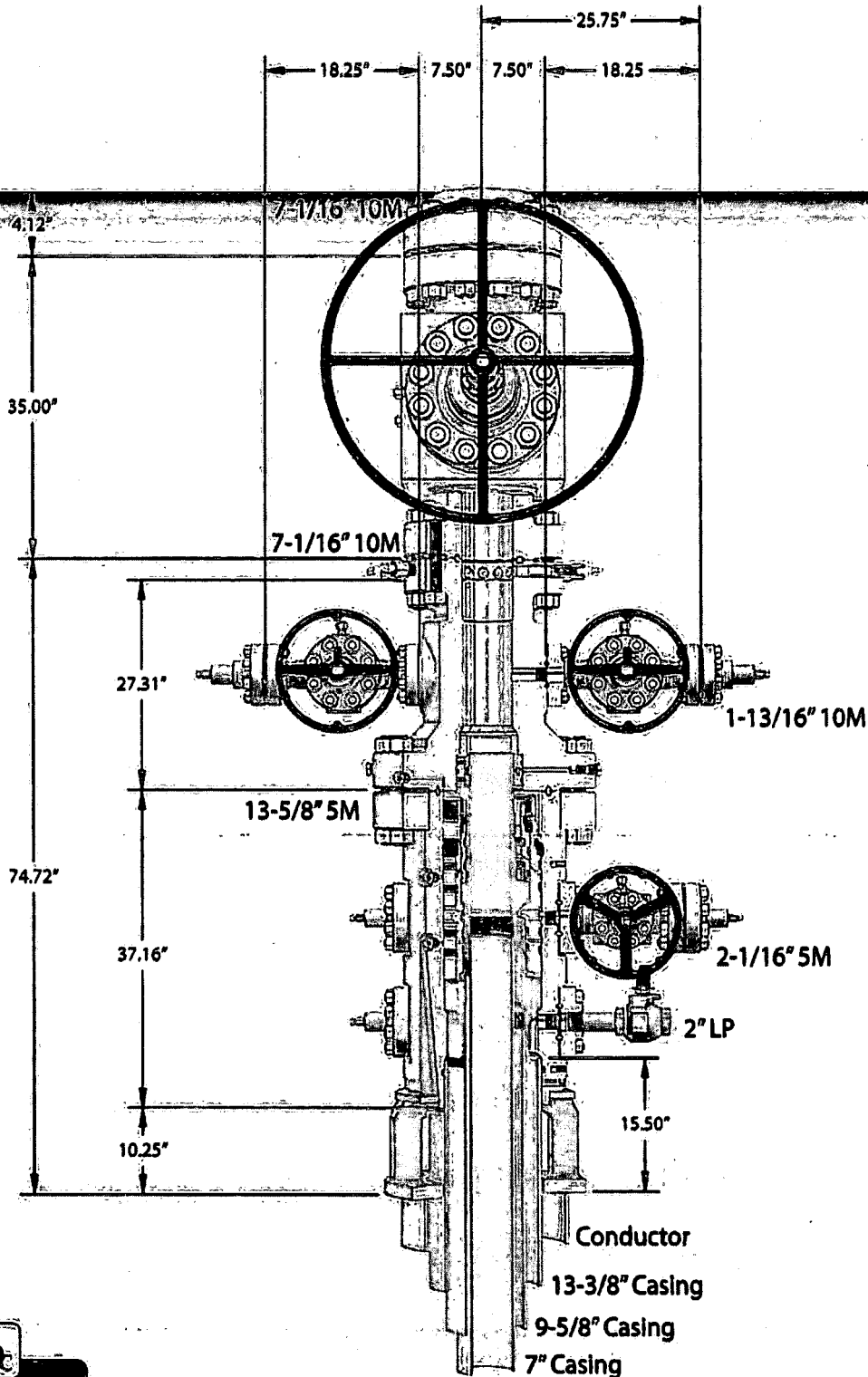
CAMERON

A Schlumberger Company

13-5/8" MN-DS Wellhead System

Ground Level

Ground Level

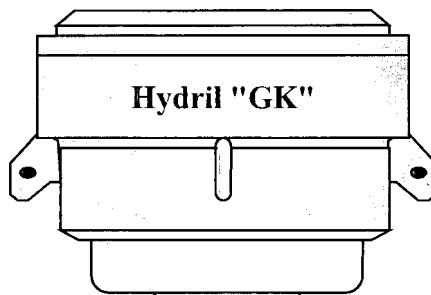
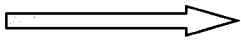


Lapping Range 57" conductor cut-off
79

C7685
Rev. 02

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

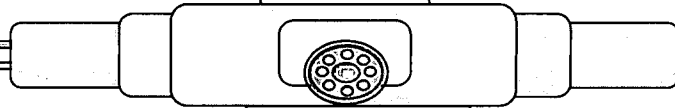
Hydril "GK"
13 5/8" 3M



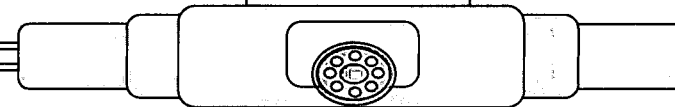
Hydril "GK"



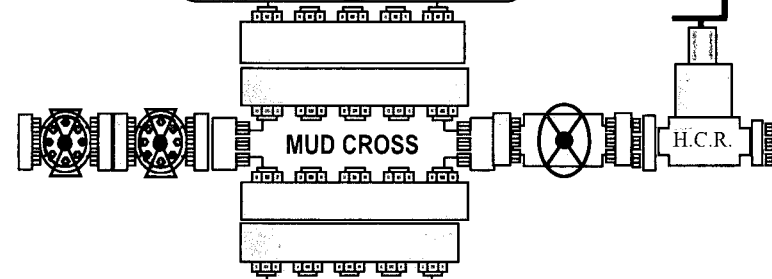
Cameron Type U
13 5/8" 3M



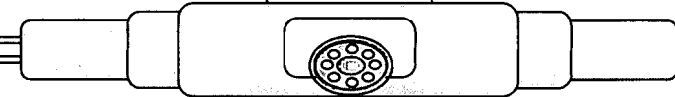
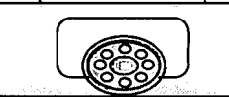
4 1/2"x 5 7/8" VBR



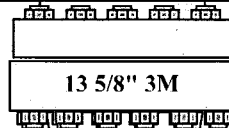
BLIND RAMS



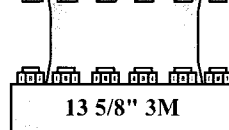
MUD CROSS



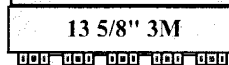
7" RAMS



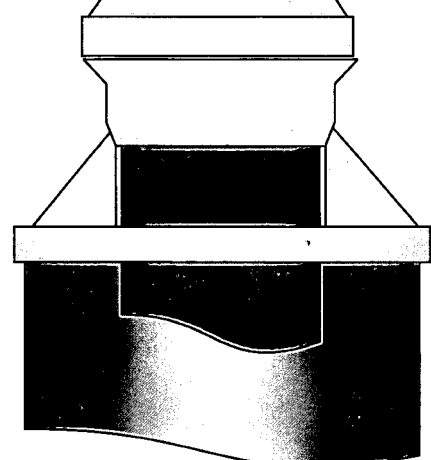
13 5/8" 3M



13 5/8" 3M



13 5/8" 3M





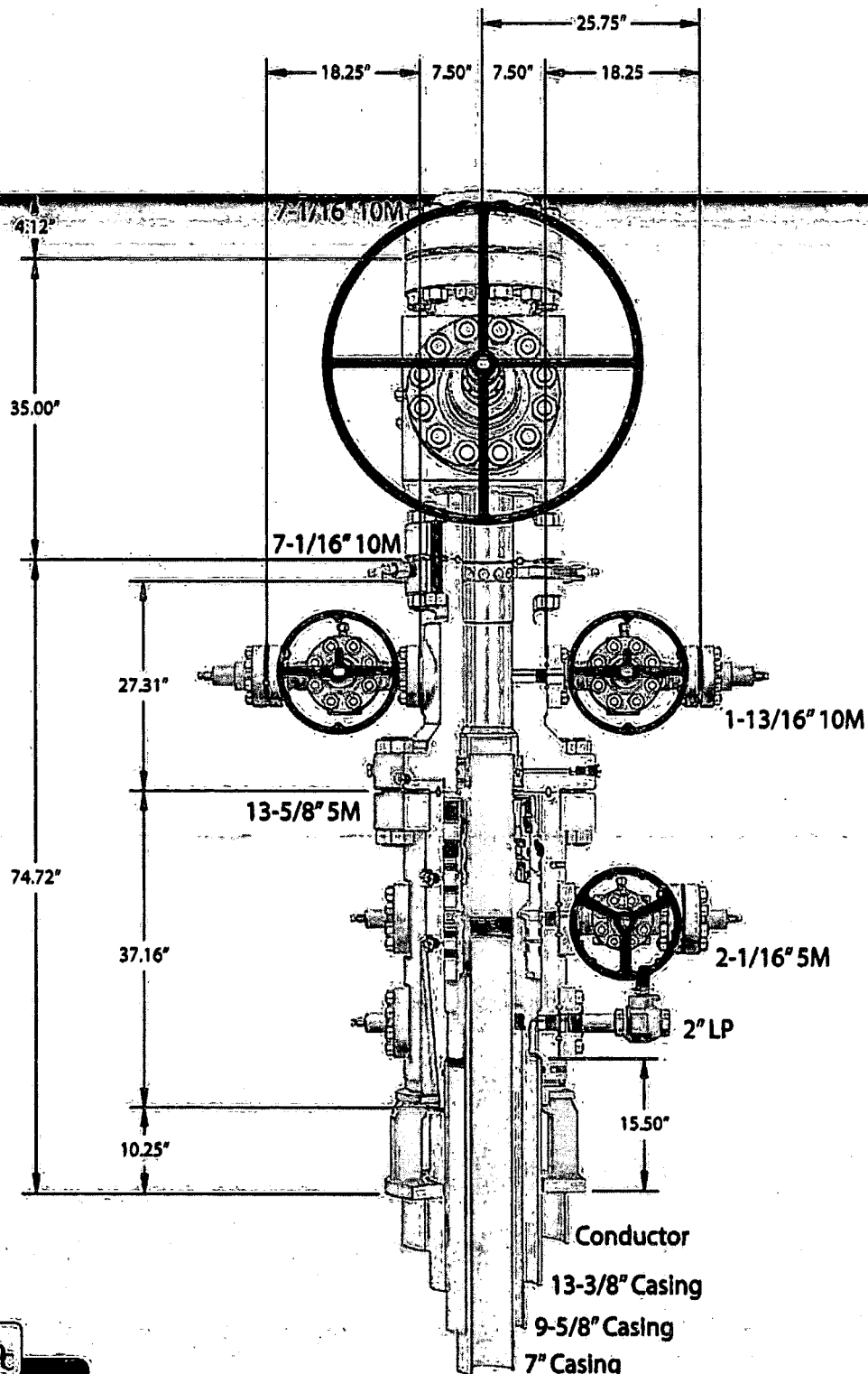
CAMERON

A Schlumberger Company

13-5/8" MN-DS Wellhead System

Ground Level

Ground Level



C7585
Rev. 02

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

6000 ft. 57" conductor cut-off
79

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

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	5.61	12.60	22.36	37.57
12.25"	0'	1150'	9.625"	36	J55	LTC	3.38	5.89	10.94	13.62
8.75"	0'	7987'	7"	26	HCP110	LTC	2.18	2.79	3.05	4.00
6.125"	7229'	15266'	4.5"	13.5	P110	LTC	2.66	3.10	3.12	3.89
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 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

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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?	
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Is 2 nd string set 100' to 600' below the base of salt?	
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If yes, are there two strings cemented to surface?	
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If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

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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?	
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If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
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If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

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

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

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

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

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

3. Hydrogen Sulfide Protection and Monitoring Equipment
Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.
4. Visual Warning Systems
 - A. Wind direction indicators as indicated on the wellsite diagram.
 - B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2nd Fax	575-393-7259

District Manager	Robin Terrell	575-390-4816
Drilling Superintendent	Frosty Lathan	575-390-4103
	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Pavo Frio 29/30 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 2435' FEL & 1980' FSL (29)

BHL: 1980' FSL & 100' FWL (30)

Plan: Design #1

Standard Planning Report

06 August, 2018

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Frio 29/30 B2KL Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3493.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3493.0usft (Original Well Elev)
Site:	Pavo Frio 29/30 B2KL Fed Com #1H	North Reference:	Grid
Well:	Sec 29, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (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 B2KL Fed Com #1H				
Site Position:		Northing:	624,519.00 usft	Latitude:	32.7166191
From:	Map	Easting:	614,250.00 usft	Longitude:	-104.0962605
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:	624,519.00 usft	Latitude:	32.7166191
	+E/-W	0.0 usft	Easting:	614,250.00 usft	Longitude:	-104.0962605
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,493.0 usft	Ground Level:	3,466.0 usft

Wellbore	BHL: 1980' FSL & 100' FWL (30)				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	8/6/2018	6.98	60.37	48,142

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	269.79

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
0.0	0.00	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.00	
7,229.0	0.00	0.00	7,229.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,229.0	0.00	0.00	7,229.0	0.0	0.0	0.01	0.00	0.00	0.00	KOP @ 7229'
7,987.1	90.86	269.79	7,707.0	-1.8	-485.2	11.99	11.99	0.00	-90.21	
15,266.7	90.86	269.79	7,598.0	-29.0	-7,764.0	0.00	0.00	0.00	0.00	BHL: 1980' FSL & 100'

Planning Report

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Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3493.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3493.0usft (Original Well Elev)
Site:	Pavo Frio 29/30 B2KL Fed Com #1H	North Reference:	Grid
Well:	Sec 29, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (30)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 1980' FSL & 2435' FEL (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
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Frio 29/30 B2KL Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3493.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3493.0usft (Original Well Elev)
Site:	Pavo Frio 29/30 B2KL Fed Com #1H	North Reference:	Grid
Well:	Sec 29, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (30)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,229.0	0.00	0.00	7,229.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 7229'									
7,300.0	8.51	269.79	7,299.7	0.0	-5.3	5.3	11.99	11.99	0.00
7,400.0	20.49	269.79	7,396.4	-0.1	-30.3	30.3	11.99	11.99	0.00
7,500.0	32.48	269.79	7,485.7	-0.3	-74.8	74.8	11.99	11.99	0.00
7,600.0	44.47	269.79	7,563.9	-0.5	-136.9	136.9	11.99	11.99	0.00
7,700.0	56.45	269.79	7,627.4	-0.8	-213.9	213.9	11.99	11.99	0.00
7,800.0	68.44	269.79	7,673.6	-1.1	-302.3	302.3	11.99	11.99	0.00
7,801.8	68.65	269.79	7,674.2	-1.1	-304.0	304.0	11.99	11.99	0.00
FTP: 1980' FSL & 2538' FWL (29)									
7,900.0	80.42	269.79	7,700.4	-1.5	-398.5	398.5	11.99	11.99	0.00
7,987.1	90.86	269.79	7,707.0	-1.8	-485.2	485.2	11.99	11.99	0.00
LP: 2357' FWL & 1980' FSL (29)									
8,000.0	90.86	269.79	7,706.8	-1.9	-498.1	498.1	0.00	0.00	0.00
8,100.0	90.86	269.79	7,705.3	-2.2	-598.1	598.1	0.00	0.00	0.00
8,200.0	90.86	269.79	7,703.8	-2.6	-698.1	698.1	0.00	0.00	0.00
8,300.0	90.86	269.79	7,702.3	-3.0	-798.1	798.1	0.00	0.00	0.00
8,400.0	90.86	269.79	7,700.8	-3.4	-898.1	898.1	0.00	0.00	0.00
8,500.0	90.86	269.79	7,699.3	-3.7	-998.1	998.1	0.00	0.00	0.00
8,600.0	90.86	269.79	7,697.8	-4.1	-1,098.1	1,098.1	0.00	0.00	0.00
8,700.0	90.86	269.79	7,696.3	-4.5	-1,198.0	1,198.0	0.00	0.00	0.00
8,800.0	90.86	269.79	7,694.8	-4.8	-1,298.0	1,298.0	0.00	0.00	0.00
8,900.0	90.86	269.79	7,693.3	-5.2	-1,398.0	1,398.0	0.00	0.00	0.00
9,000.0	90.86	269.79	7,691.8	-5.6	-1,498.0	1,498.0	0.00	0.00	0.00
9,100.0	90.86	269.79	7,690.3	-6.0	-1,598.0	1,598.0	0.00	0.00	0.00
9,200.0	90.86	269.79	7,688.8	-6.3	-1,698.0	1,698.0	0.00	0.00	0.00
9,300.0	90.86	269.79	7,687.3	-6.7	-1,798.0	1,798.0	0.00	0.00	0.00
9,400.0	90.86	269.79	7,685.8	-7.1	-1,898.0	1,898.0	0.00	0.00	0.00
9,500.0	90.86	269.79	7,684.3	-7.5	-1,997.9	1,998.0	0.00	0.00	0.00
9,600.0	90.86	269.79	7,682.8	-7.8	-2,097.9	2,097.9	0.00	0.00	0.00
9,700.0	90.86	269.79	7,681.4	-8.2	-2,197.9	2,197.9	0.00	0.00	0.00
9,800.0	90.86	269.79	7,679.9	-8.6	-2,297.9	2,297.9	0.00	0.00	0.00
9,900.0	90.86	269.79	7,678.4	-9.0	-2,397.9	2,397.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Frio 29/30 B2KL Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3493.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3493.0usft (Original Well Elev)
Site:	Pavo Frio 29/30 B2KL Fed Com #1H	North Reference:	Grid
Well:	Sec 29, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (30)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	90.86	269.79	7,676.9	-9.3	-2,497.9	2,497.9	0.00	0.00	0.00
10,100.0	90.86	269.79	7,675.4	-9.7	-2,597.9	2,597.9	0.00	0.00	0.00
10,200.0	90.86	269.79	7,673.9	-10.1	-2,697.9	2,697.9	0.00	0.00	0.00
10,300.0	90.86	269.79	7,672.4	-10.5	-2,797.8	2,797.9	0.00	0.00	0.00
10,400.0	90.86	269.79	7,670.9	-10.8	-2,897.8	2,897.9	0.00	0.00	0.00
10,500.0	90.86	269.79	7,669.4	-11.2	-2,997.8	2,997.8	0.00	0.00	0.00
10,600.0	90.86	269.79	7,667.9	-11.6	-3,097.8	3,097.8	0.00	0.00	0.00
10,700.0	90.86	269.79	7,666.4	-11.9	-3,197.8	3,197.8	0.00	0.00	0.00
10,800.0	90.86	269.79	7,664.9	-12.3	-3,297.8	3,297.8	0.00	0.00	0.00
10,900.0	90.86	269.79	7,663.4	-12.7	-3,397.8	3,397.8	0.00	0.00	0.00
11,000.0	90.86	269.79	7,661.9	-13.1	-3,497.8	3,497.8	0.00	0.00	0.00
11,100.0	90.86	269.79	7,660.4	-13.4	-3,597.8	3,597.8	0.00	0.00	0.00
11,200.0	90.86	269.79	7,658.9	-13.8	-3,697.7	3,697.8	0.00	0.00	0.00
11,300.0	90.86	269.79	7,657.4	-14.2	-3,797.7	3,797.8	0.00	0.00	0.00
11,400.0	90.86	269.79	7,655.9	-14.6	-3,897.7	3,897.7	0.00	0.00	0.00
11,500.0	90.86	269.79	7,654.4	-14.9	-3,997.7	3,997.7	0.00	0.00	0.00
11,600.0	90.86	269.79	7,652.9	-15.3	-4,097.7	4,097.7	0.00	0.00	0.00
11,700.0	90.86	269.79	7,651.4	-15.7	-4,197.7	4,197.7	0.00	0.00	0.00
11,800.0	90.86	269.79	7,649.9	-16.1	-4,297.7	4,297.7	0.00	0.00	0.00
11,900.0	90.86	269.79	7,648.4	-16.4	-4,397.7	4,397.7	0.00	0.00	0.00
12,000.0	90.86	269.79	7,646.9	-16.8	-4,497.6	4,497.7	0.00	0.00	0.00
12,100.0	90.86	269.79	7,645.4	-17.2	-4,597.6	4,597.7	0.00	0.00	0.00
12,200.0	90.86	269.79	7,643.9	-17.5	-4,697.6	4,697.7	0.00	0.00	0.00
12,300.0	90.86	269.79	7,642.4	-17.9	-4,797.6	4,797.6	0.00	0.00	0.00
12,400.0	90.86	269.79	7,640.9	-18.3	-4,897.6	4,897.6	0.00	0.00	0.00
12,500.0	90.86	269.79	7,639.4	-18.7	-4,997.6	4,997.6	0.00	0.00	0.00
12,600.0	90.86	269.79	7,637.9	-19.0	-5,097.6	5,097.6	0.00	0.00	0.00
12,700.0	90.86	269.79	7,636.4	-19.4	-5,197.6	5,197.6	0.00	0.00	0.00
12,800.0	90.86	269.79	7,634.9	-19.8	-5,297.6	5,297.6	0.00	0.00	0.00
12,900.0	90.86	269.79	7,633.4	-20.2	-5,397.5	5,397.6	0.00	0.00	0.00
13,000.0	90.86	269.79	7,631.9	-20.5	-5,497.5	5,497.6	0.00	0.00	0.00
13,100.0	90.86	269.79	7,630.4	-20.9	-5,597.5	5,597.6	0.00	0.00	0.00
13,200.0	90.86	269.79	7,628.9	-21.3	-5,697.5	5,697.5	0.00	0.00	0.00
13,300.0	90.86	269.79	7,627.4	-21.7	-5,797.5	5,797.5	0.00	0.00	0.00
13,400.0	90.86	269.79	7,626.0	-22.0	-5,897.5	5,897.5	0.00	0.00	0.00
13,500.0	90.86	269.79	7,624.5	-22.4	-5,997.5	5,997.5	0.00	0.00	0.00
13,600.0	90.86	269.79	7,623.0	-22.8	-6,097.5	6,097.5	0.00	0.00	0.00
13,700.0	90.86	269.79	7,621.5	-23.1	-6,197.4	6,197.5	0.00	0.00	0.00
13,800.0	90.86	269.79	7,620.0	-23.5	-6,297.4	6,297.5	0.00	0.00	0.00
13,900.0	90.86	269.79	7,618.5	-23.9	-6,397.4	6,397.5	0.00	0.00	0.00
14,000.0	90.86	269.79	7,617.0	-24.3	-6,497.4	6,497.5	0.00	0.00	0.00
14,100.0	90.86	269.79	7,615.5	-24.6	-6,597.4	6,597.4	0.00	0.00	0.00
14,200.0	90.86	269.79	7,614.0	-25.0	-6,697.4	6,697.4	0.00	0.00	0.00
14,300.0	90.86	269.79	7,612.5	-25.4	-6,797.4	6,797.4	0.00	0.00	0.00
14,400.0	90.86	269.79	7,611.0	-25.8	-6,897.4	6,897.4	0.00	0.00	0.00
14,500.0	90.86	269.79	7,609.5	-26.1	-6,997.3	6,997.4	0.00	0.00	0.00
14,600.0	90.86	269.79	7,608.0	-26.5	-7,097.3	7,097.4	0.00	0.00	0.00
14,700.0	90.86	269.79	7,606.5	-26.9	-7,197.3	7,197.4	0.00	0.00	0.00
14,800.0	90.86	269.79	7,605.0	-27.3	-7,297.3	7,297.4	0.00	0.00	0.00
14,900.0	90.86	269.79	7,603.5	-27.6	-7,397.3	7,397.4	0.00	0.00	0.00
15,000.0	90.86	269.79	7,602.0	-28.0	-7,497.3	7,497.3	0.00	0.00	0.00
15,100.0	90.86	269.79	7,600.5	-28.4	-7,597.3	7,597.3	0.00	0.00	0.00
15,200.0	90.86	269.79	7,599.0	-28.8	-7,697.3	7,697.3	0.00	0.00	0.00
15,266.7	90.86	269.79	7,598.0	-29.0	-7,764.0	7,764.1	0.00	0.00	0.00

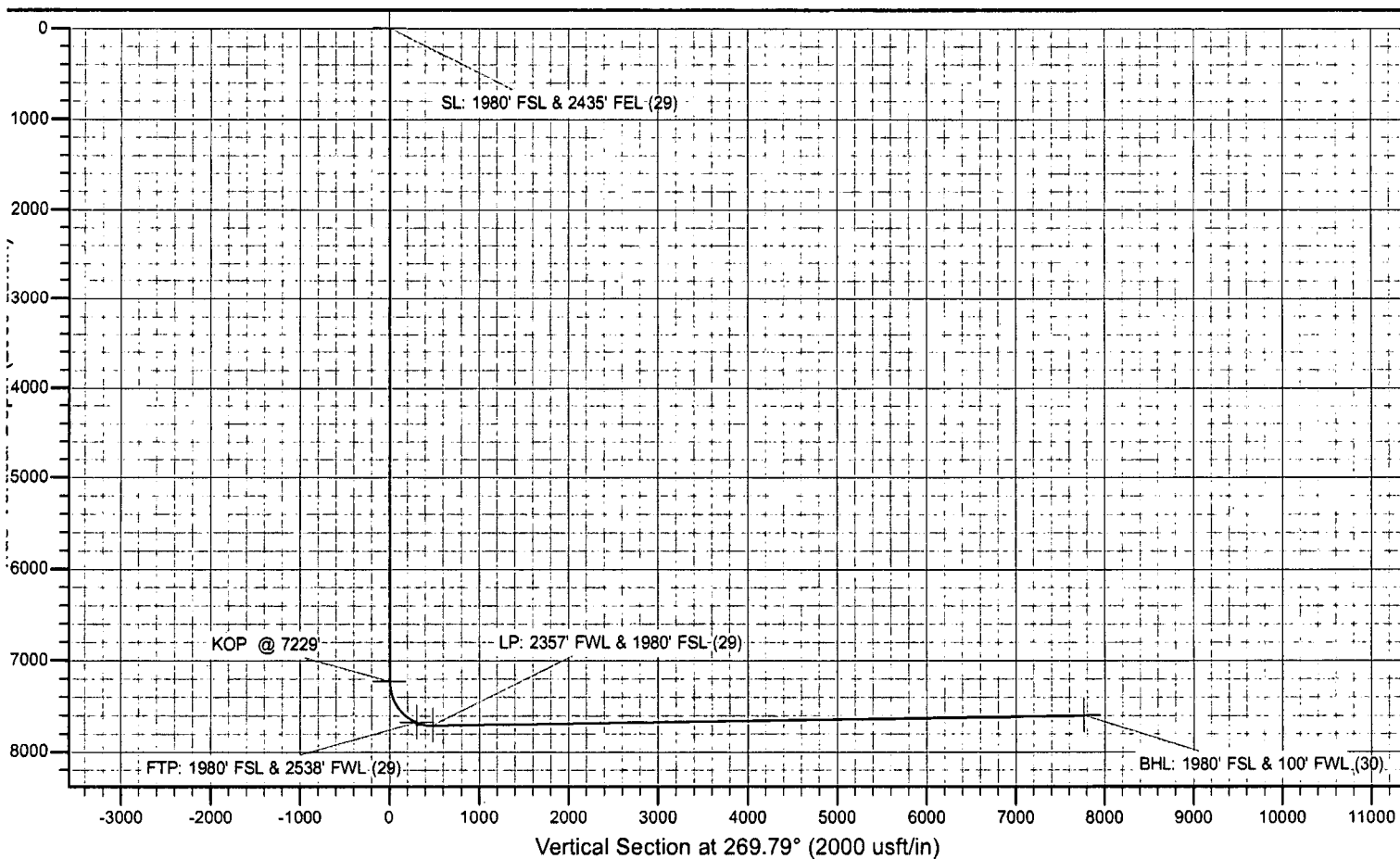
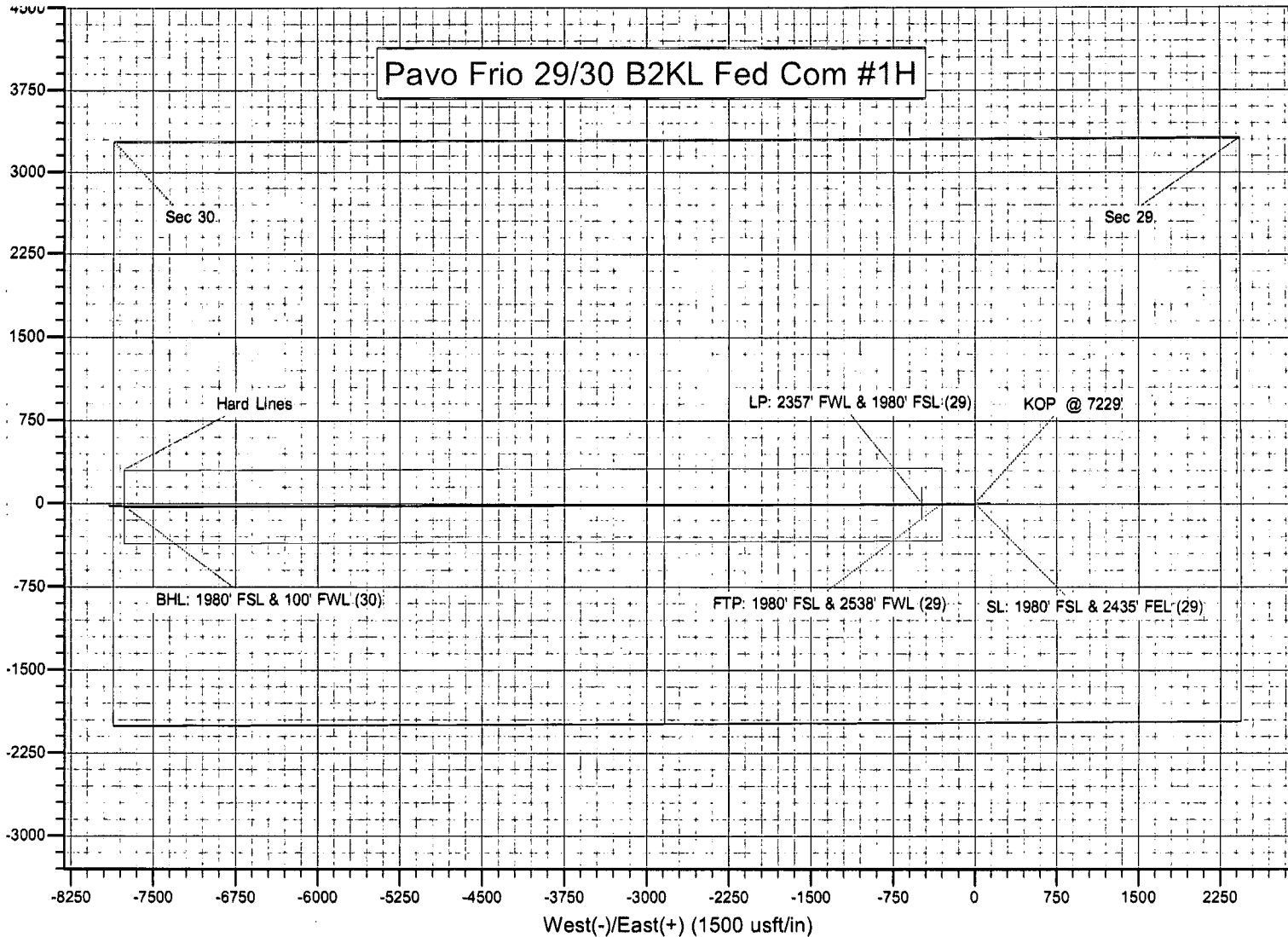
Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Frio 29/30 B2KL Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3493.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3493.0usft (Original Well Elev)
Site:	Pavo Frio 29/30 B2KL Fed Com #1H	North Reference:	Grid
Well:	Sec 29, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (30)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
BHL: 1980' FSL & 100' FWL (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: 1980' FSL & 2435' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	624,519.00	614,250.00	32.7166191	-104.0962605
KOP @ 7229' - plan hits target center - Point	0.00	0.00	7,229.0	0.0	0.0	624,519.00	614,250.00	32.7166191	-104.0962605
BHL: 1980' FSL & 100' F - plan hits target center - Point	0.00	0.00	7,598.0	-29.0	-7,764.0	624,490.00	606,486.00	32.7165846	-104.1215050
FTP: 1980' FSL & 2538' - plan hits target center - Point	0.00	0.00	7,674.2	-1.1	-304.0	624,517.87	613,946.00	32.7166178	-104.0972490
LP: 2357' FWL & 1980' F - plan hits target center - Point	0.00	0.00	7,707.0	-1.8	-485.2	624,517.19	613,764.80	32.7166171	-104.0978382

Pavo Frio 29/30 B2KL Fed Com #1H



Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

1. Geologic Formations

TVD of target	7707'	Pilot hole depth	NA
MD at TD:	15266'	Deepest expected fresh water:	200'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler			
Top of Salt	470		
Castile			
Base of Salt	820		
Yates	990	Oil/Gas	
Seven Rivers	1330	Oil/Gas	
Queen	1940	Oil/Gas	
Grayburg	2320		
San Andreas	2820	Oil/Gas	
Bone Spring	3710	Oil/Gas	
1 st Bone Spring Sand	6610	Oil/Gas	
2 nd Bone Spring Sand	7460	Target Zone	
3 rd Bone Spring Sand			
Abo			
Wolfcamp			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

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	5.61	12.60	22.36	37.57
12.25"	0'	1150'	9.625"	36	J55	LTC	3.38	5.89	10.94	13.62
8.75"	0'	7987'	7"	26	HCP110	LTC	2.18	2.79	3.05	4.00
6.125"	7229'	15266'	4.5"	13.5	P110	LTC	2.66	3.10	3.12	3.89
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?	

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

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

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	80	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.	105	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod. Stg 1	410	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	325	11.2	2.97	18	16	Class H + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

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

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	950'	25%
Liner	7229'	25%

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

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
---	--

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

	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. <ul style="list-style-type: none"> Provide description here: See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	300	FW Gel	8.6-8.8	28-34	N/C
300	1150	Saturated Brine	10.0	28-34	N/C
1150	7229	Cut Brine	8.6-9.5	28-34	N/C
7229	7707	OBM	8.6-10.0	30-40	<10cc

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

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 (7229') 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	7229' (KOP) to TD
	Density	

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL

	CBL	
	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4008 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.

	H ₂ S is present
X	H ₂ S 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

Mewbourne Oil Company, Pavo Frio 29/28 B2KL Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL (29)

BHL: 1980' FSL & 100' FWL



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

SUPO Data Report

05/10/2019

APD ID: 10400029655

Submission Date: 08/08/2018

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PavoFrio29_30B2KLFedCom1H_existingroadmap_20180420100619.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:

PavoFrio29_30B2KLFedCom1H_newroadmap_20180420100711.pdf

New road type: LOCAL

Length: 64.45

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL 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_30B2KLFedCom1H_existingwellmap_20180420100730.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: Production facility will be offsite to the north. A surface 2 7/8" flowline will be installed within 5' of existing lease road. Line pressure will be 100#. The length of the flowline will be 600'.

Production Facilities map:

PavoFrio29_30B2KLFedCom1H_productionfacilitymap2_20180420100831.pdf

PavoFrio29_30B2KLFedCom1H_productionfacilitymap_20180420101731.pdf

Section 5 - Location and Types of Water Supply

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL FED COM

Well Number: 1H

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

Water source type: IRRIGATION

Describe type:

Source longitude: -104.12318

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 (acre-feet): 0.32416615

Source volume (gal): 105630

Water source and transportation map:

PavoFrio29_30B2KLFedCom1H_watersourceandtransmap_20180420100852.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:

State appropriation permit:

Additional information attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL FED COM

Well Number: 1H

Section 6 - Construction Materials

Construction Materials description: Caliche

Construction Materials source location attachment:

PavoFrio29_30B2KLFedCom1H_calichesourceandtransmap_20180420100934.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:

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL FED COM

Well Number: 1H

FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

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 B2KL FED COM

Well Number: 1H

Section 9 - Well Site Layout

Well Site Layout Diagram:

PavoFrio29_30B2KLFedCom1H_wellsitelayout_20180420101006.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: PAVO FRIO KL & JI

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance
(acres): 4.132

Well pad interim reclamation (acres): 1.281

Well pad long term disturbance
(acres): 2.851

Road proposed disturbance (acres): 0.03

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: 4.162

Total interim reclamation: 1.281

Total long term disturbance: 2.851

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL 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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2KL 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 B2KL 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: 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

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 B2KL 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: APR 02 2018 Met w/RRC Surveying & staked location @ 1980' FSL & 2435' FEL, Sec 29, T18S, R29E, Eddy Co., NM. (Elevation @ 3466') Pad size is 400' x 450'. Topsoil will be stockpiled 30' wide on E side. Reclaim 70' S, E & W. A 200' x 400' battery pad is staked to the NE of the well pad along road. New road needed off the NW corner going W then NE. An Enterprise tie-in is to the SW. Will require onsite w/BLM. Location is in PA.

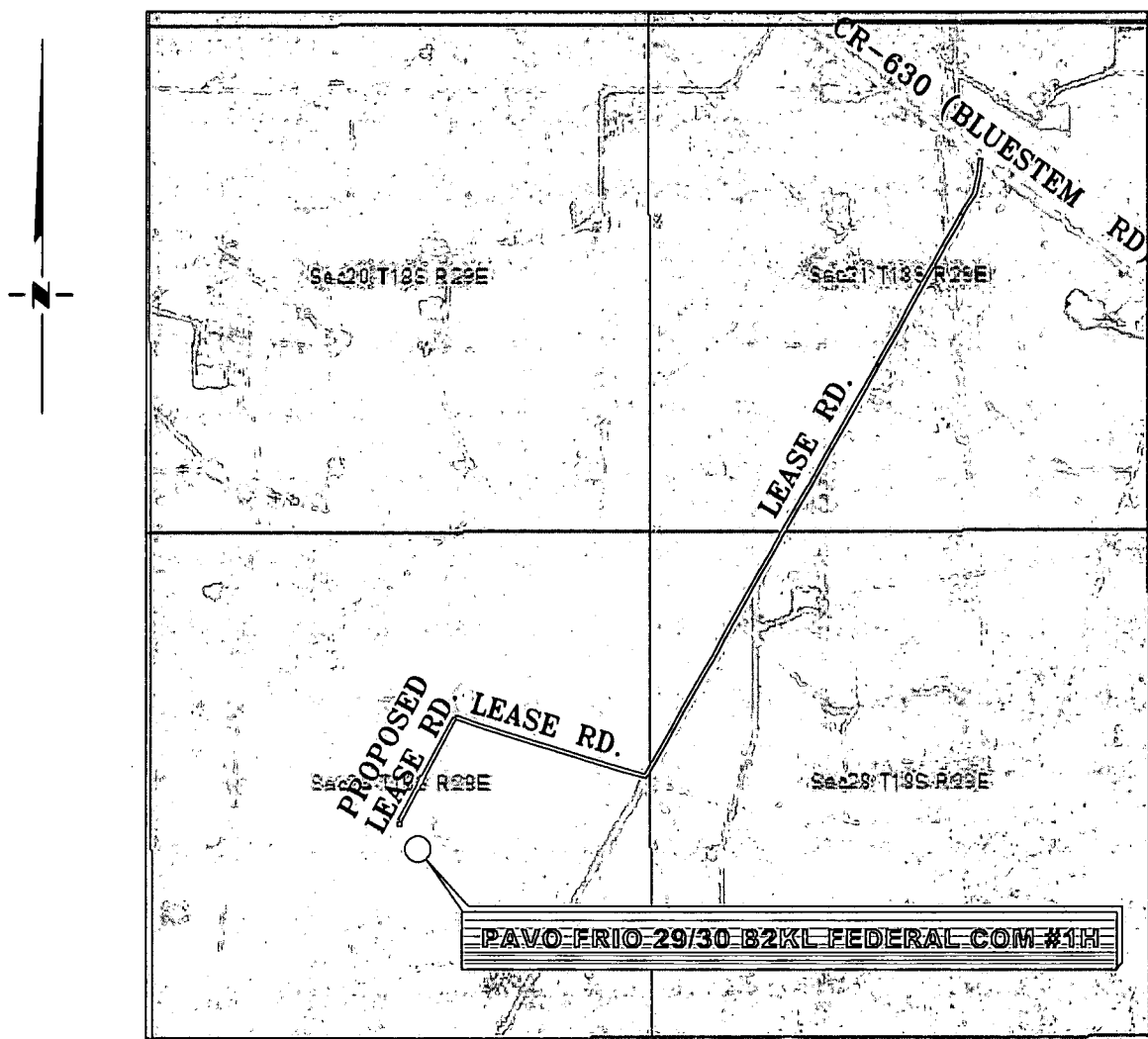
Other SUPO Attachment

PavoFrio29_30B2KLFedCom1H_interimreclamationdiagram_20180420101318.pdf

PavoFrio29_30B2KLFedCom1H_gascaptureplan_20180420101335.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: 1980' FSL & 2435' FEL
LEASE: Pavo Frio 29/30 B2KL Federal Com ELEVATION: 3466'
WELL NO.: 1H

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RRC

SCALE: 1" = 1000'

DATE: 03/28/2018

SURVEYED BY: ML/TF

DRAWN BY: KAKN

APPROVED BY: RMH

SHEET: 1 OF 1

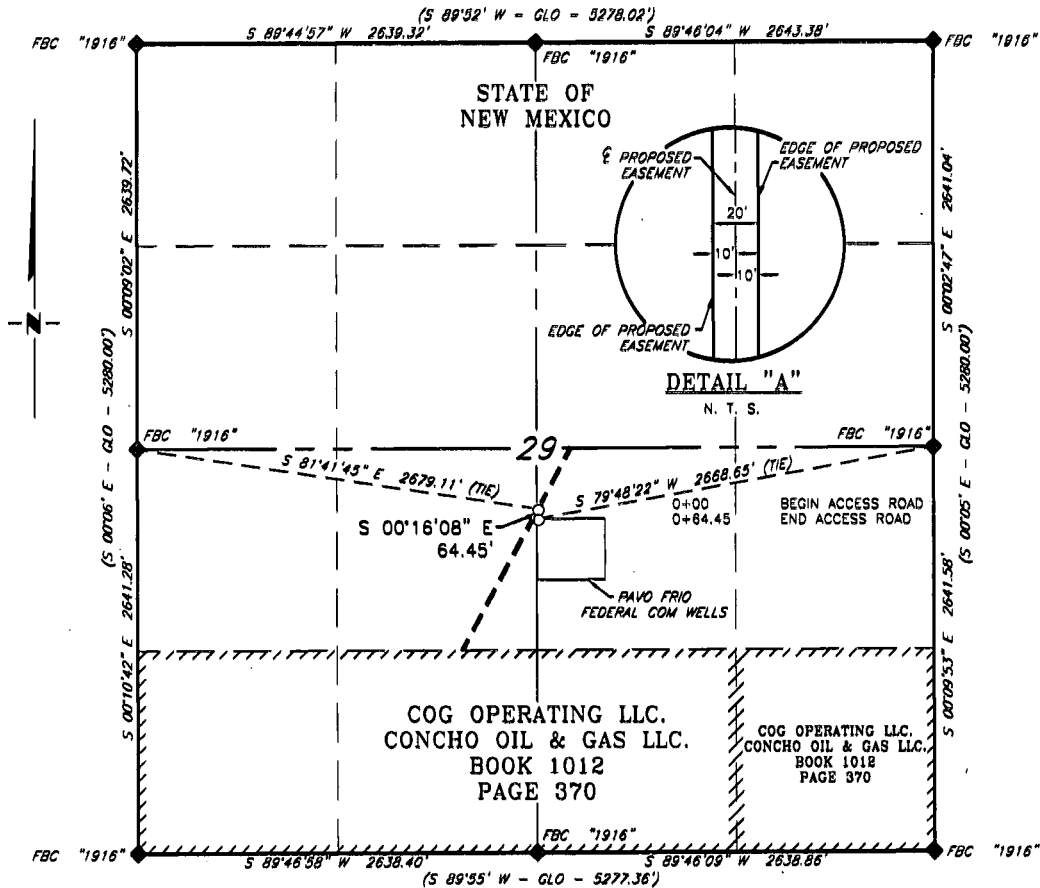
NO.	REVISION	DATE

JOB NO.: LS1803412

DWG. NO.: 1803412-3

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

MEWBOURNE OIL COMPANY
PROPOSED ACCESS ROAD FOR THE PAVO FRIO FEDERAL COM WELLS
SECTION 29, T18S, R29E,
N. M. P. M., EDDY CO., NEW MEXICO



DESCRIPTION

A strip of land 20 feet wide, being 64.45 feet or 3.906 rods in length, lying in Section 29, Township 18 South, Range 29 East, N. M. P. M., Eddy County, New Mexico, being 10 feet left and 10 feet right of the following described survey of a centerline across State of New Mexico land:

BEGINNING at Engr. Sta. 0+00, a point in the Southeast quarter of Section 29, which bears, S 81°41'45" E, 2,679.11 feet from a brass cap, stamped "1916", found for the West quarter corner of Section 29;

Thence S 00°16'08" E, 64.45 feet, to Engr. Sta. 0+64.45, the End of Survey, a point in Southeast quarter of Section 29, which bears, S 79°48'22" W, 2,668.65 feet from a brass cap, stamped "1916", found for the East quarter corner of Section 29.

Said strip of land contains 0.032 acres, more or less, and is allocated by forties as follows:

NW 1/4 SE 1/4 3.906 Rods 0.032 Acres

SCALE: 1" = 1000'
 0 500' 1000'
 BEARINGS ARE GRID NAD 83
 NM EAST
 DISTANCES ARE HORIZ. GROUND.
 LEGEND
 () RECORD DATA - GLO
 FOUND MONUMENT
 AS NOTED
 PROPOSED ACCESS ROAD

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

Robert M. Howett

Robert M. Howett NM PS 19680



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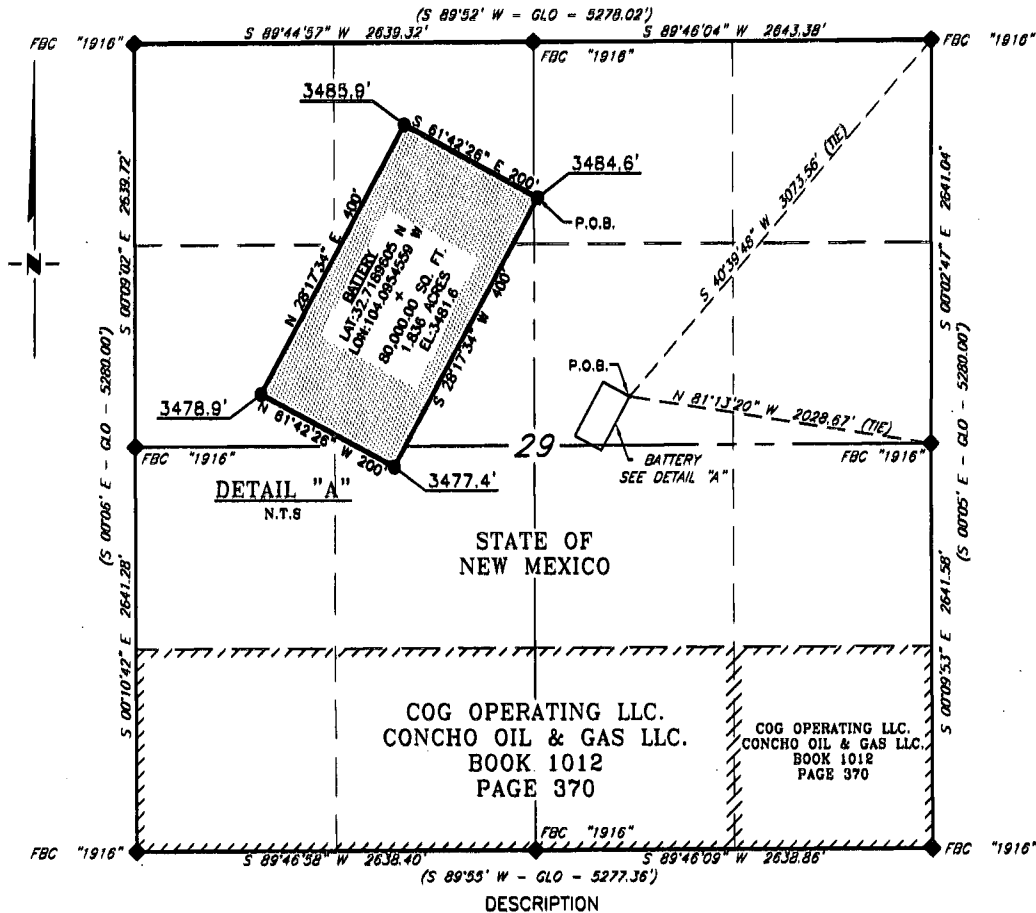
NO.	REVISION	DATE
JOB NO.:	LS1803412	
DWG. NO.:	1803412-5	

RRC

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

SCALE: 1" = 1000'
DATE: 03/28/2018
SURVEYED BY: ML/TF
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 1

**MEWBOURNE OIL COMPANY
PROPOSED BATTERY FOR THE PAVO FRIO FEDERAL COM WELLS
SECTION 29, T18S, R29E,
N. M. P. M., EDDY CO., NEW MEXICO**



A tract of land situated in Section 29, Township 18 South, Range 29 East, N. M. P. M., Eddy County, New Mexico, across State of New Mexico land, and being more particularly described by metes and bounds as follows:

BEGINNING at a point, which bears S 40°39'48" W, 3,073.56 feet, from a brass cap, stamped "1916", found for the Northeast corner of Section 29 and bears N 81°13'20" W, 2,028.67 feet from a brass cap, stamped "1916", found for the East quarter corner of Section 29;

Thence S 28°17'34" W, 400 feet, to a point;

Thence N 61°42'26" W, 200 feet, to a point;

Thence N 28°17'34" E, 400 feet, to a point;

Thence S 61°42'26" E, 200 feet, to the Point of Beginning.

Said tract of land contains 80,000.00 square feet or 1.836 acres, more or less and is allocated by forties as follows:

SW 1/4 NE 1/4	78,595.75 Sq. Ft.	1.804 Acres
NW 1/4 SE 1/4	1,404.25 Sq. Ft.	0.032 Acres

SCALE: 1" = 1000'
0 500' 1000'

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

LEGEND
() RECORD DATA - GLO
FOUND MONUMENT
AS NOTED
P.O.B. POINT OF BEGINNING

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

Robert M. Howett
Robert M. Howett NM PS 19680



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NO.	REVISION	DATE
JOB NO.:	LS1803412	
DWG. NO.:	1803412-6	

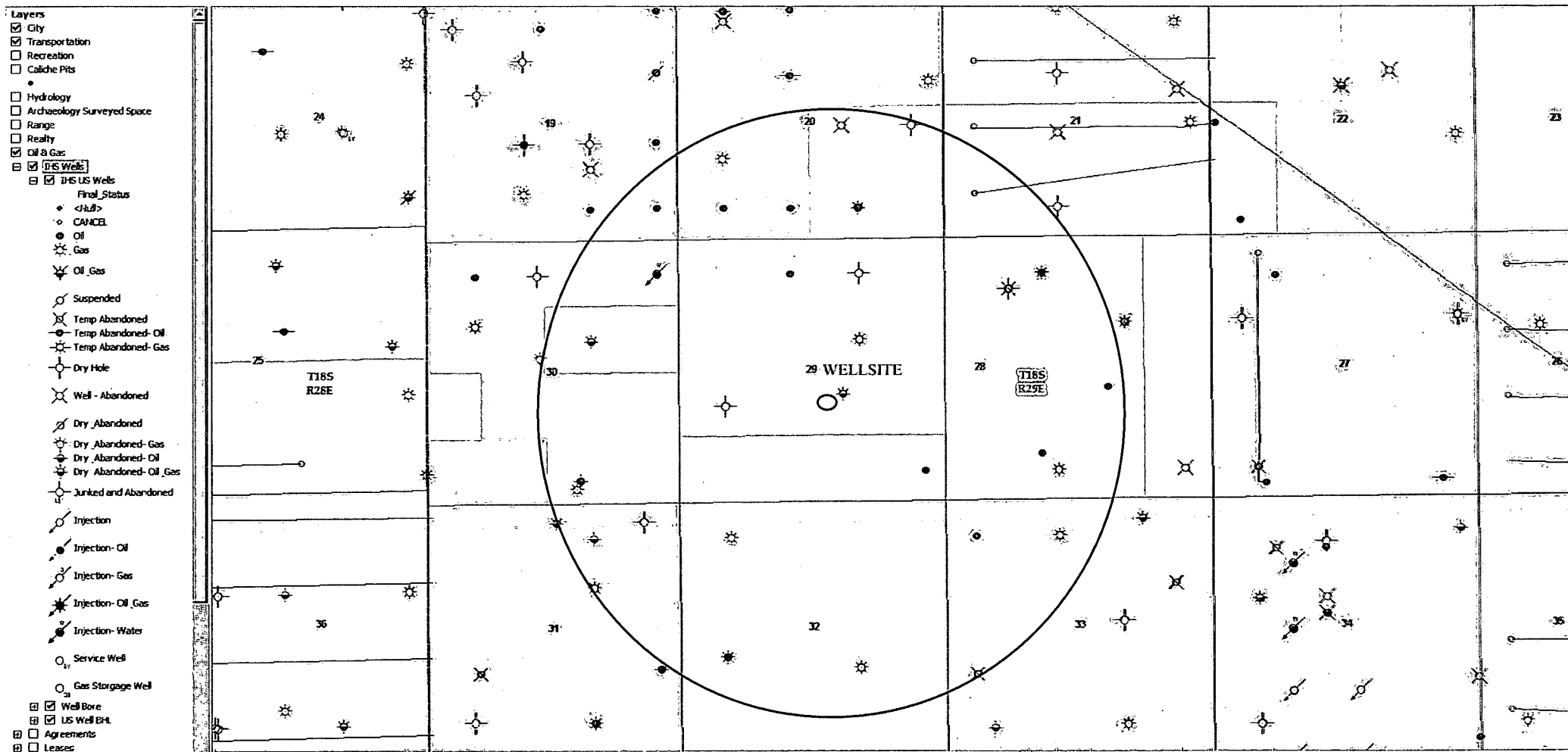
RRC

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

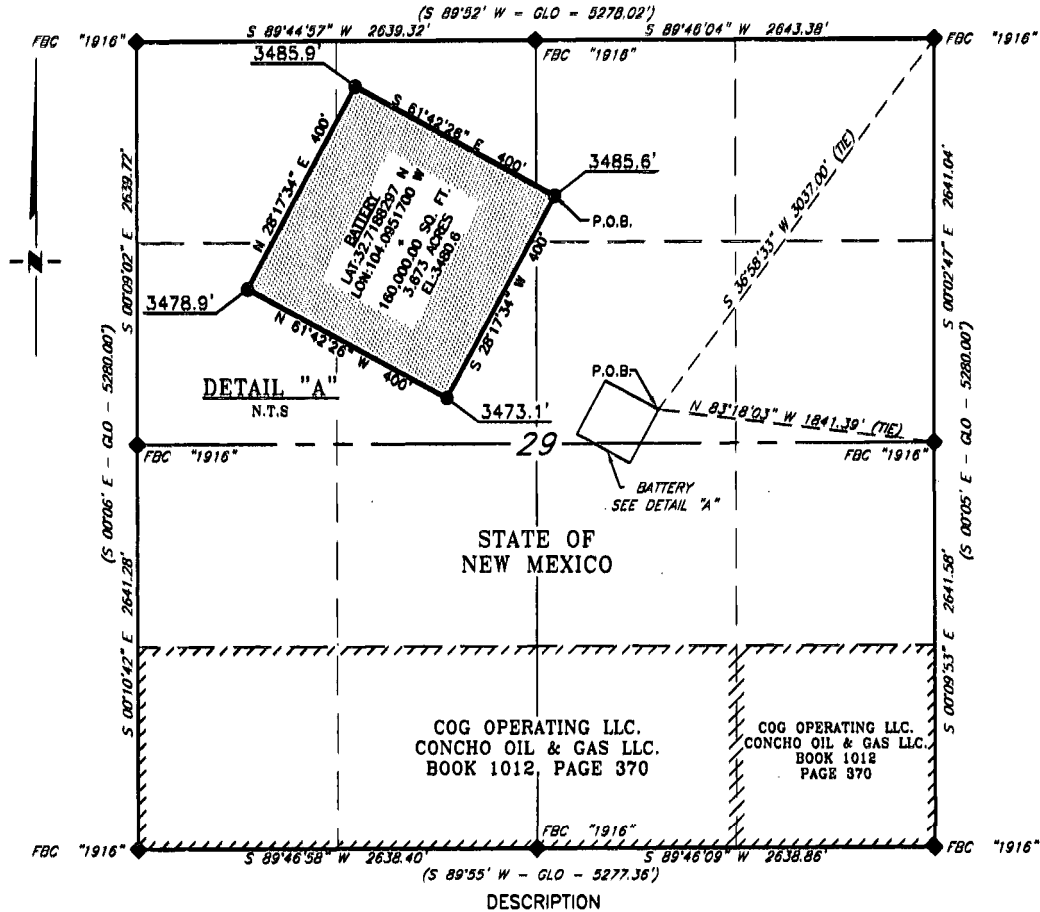
SCALE: 1" = 1000'
DATE: 03/28/2018
SURVEYED BY: BK/ZS
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 3

PAVO FRIO 29/30 B2KL FEDERAL COM #1H

EXISTING WELL MAP



**MEWBOURNE OIL COMPANY
PROPOSED BATTERY FOR THE PAVO FRIO FEDERAL COM WELLS
SECTION 29, T18S, R29E,
N. M. P. M., EDDY CO., NEW MEXICO**



A tract of land situated in Section 29, Township 18 South, Range 29 East, N. M. P. M., Eddy County, New Mexico, across State of New Mexico land, and being more particularly described by metes and bounds as follows:

BEGINNING at a point, which bears S 36°58'33" W, 3,037.00 feet, from a brass cap, stamped "1916", found for the Northeast corner of Section 29 and bears N 83°18'03" W, 1,841.39 feet from a brass cap, stamped "1916", found for the East quarter corner of Section 29;

Thence S 28°17'34" W, 400 feet, to a point;

Thence N 61°42'26" W, 400 feet, to a point;

Thence N 28°17'34" E, 400 feet, to a point;

Thence S 61°42'26" E, 400 feet, to the Point of Beginning.

Said tract of land contains 160,000.00 square feet or 3.673 acres, more or less and is allocated by forties as follows:

SW 1/4 NE 1/4	139,965.54 Sq. Ft.	3.213 Acres
NW 1/4 SE 1/4	20,034.46 Sq. Ft.	0.460 Acres

SCALE: 1" = 1000'
0 500' 1000'

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

LEGEND
() RECORD DATA - GLO
FOUND MONUMENT
AS NOTED
P.O.B. POINT OF BEGINNING

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

Robert M. Howett
Robert M. Howett NM PS 19680



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NO.	REVISION	DATE
JOB NO.:	LS1803412	
DWG. NO.:	1803412-6	

RRC

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

SCALE: 1" = 1000'
DATE: 03/28/2018
SURVEYED BY: BK/ZS
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 3

SWNE SWNE

PRODUCTION FACILITY MAP
PAYO FRIO 29/30 B2KL FED COM #1H

PAYO FRIO 29/30 B2KL FED COM #1H
PAYO FRIO 29/30 B2KL FED COM #1H

BATTERY

29-29

ROAD 615

600' OF 2-7/8" FLOW LINE

MOC WELL PAD

PAYO FRIO 29/30 B2KL FED COM #1H
PAYO FRIO 29/30 B2KL FED COM #1H

Wild Turkey 86/35 B2AB St Com #1H

State AB Com #001

water source

Pavo Macho 31 B2LI Fed Com #1H

BHL

caliche source



Pavo Frio 29/30 B2CD Fed Com 1H

Pavo Frio 29/28 B2LI Fed Com 1H

BHL

Trog Jennings Com #1

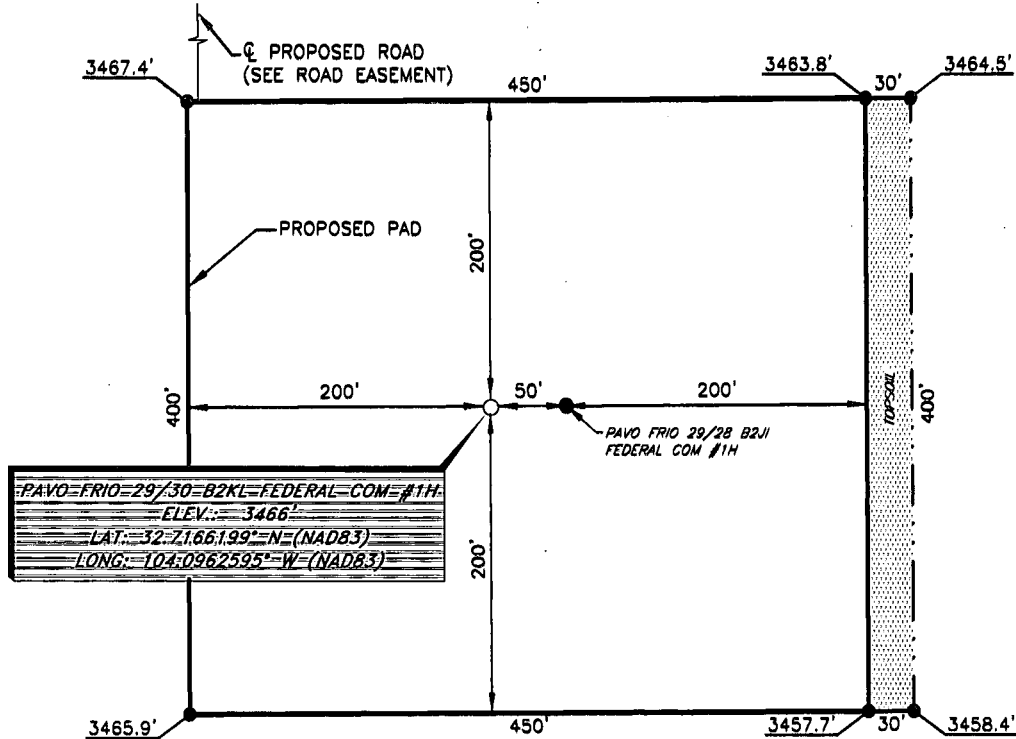
35 B2AB St Com #1H

State AB Com #001

31 B2LI Fed Com #1H

echo 31 B2MP Fed #1H

MEWBOURNE OIL COMPANY
PAVO FRIO 29/30 B2KL FEDERAL COM #1H
 (1980' FSL & 2435' FEL)
 SECTION 29, T18S, R29E
 N. M. P. M., EDDY COUNTY, NEW MEXICO



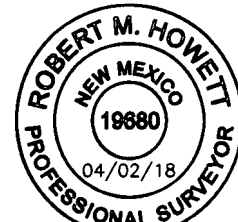
DIRECTIONS TO LOCATION

From the intersection of CR-360 (Bluestem Road) and CR-210 (Old Loco Rd.)
 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. 0.4 miles to proposed road on the left;
 Turn left and go Southwest on proposed road approx. 0.2 miles to proposed road on the left;
 Turn left and go South on proposed road approx. 250 feet to location on the left

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

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

Robert M. Howett
 Robert M. Howett NM PS 19680



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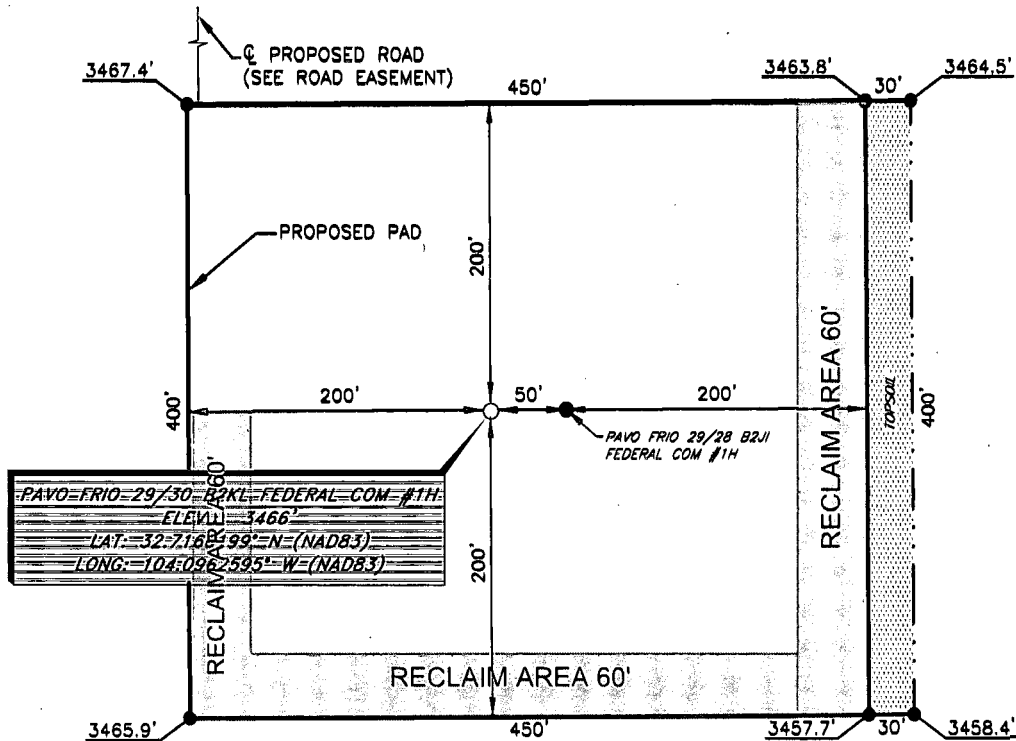
NO.	REVISION	DATE
JOB NO.:	LS1803412	
DWG. NO.:	1803412-4	



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

SCALE: 1" = 1000'
DATE: 03/28/2018
SURVEYED BY: ML/TF
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 1

MEWBOURNE OIL COMPANY
PAVO FRIO 29/30 B2KL FEDERAL COM #1H
(1980' FSL & 2435' FEL)
SECTION 29, T18S, R29E
N. M. P. M., EDDY COUNTY, NEW MEXICO



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NO.	REVISION	DATE
JOB NO.:	LS1803412	
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RRC

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

SCALE: 1" = 1000'
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SHEET: 1 OF 1



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

PWD Data Report

05/10/2019

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

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 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

05/10/2019

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: