

RECEIVED

JAN 06 2020

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DISTRICT/ARTESIA/O.C.D.

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM0001165
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator MEWBORNE OIL COMPANY		8. Lease Name and Well No. GLOCK 17/16 B3EH FED COM 1H 32689.0
3a. Address PO Box 5270 Hobbs NM 88240	3b. Phone No. (include area code) (575)393-5905	9. API Well No. 30-015-46588
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW / 2090 FSL / 230 FWL / LAT 32.5719846 / LONG -104.1050404 At proposed prod. zone SENE / 2200 FNL / 100 FEL / LAT 32.5746997 / LONG -104.0717841		10. Field and Post, or Exploratory GATINA CANYON / BONE SPRING
14. Distance in miles and direction from nearest town or post office* 20 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 17 / T20S / R29E / NMP
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 2494.41	12. County or Parish EDDY
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1012 feet	19. Proposed Depth 9153 feet / 19412 feet	13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3308 feet	20. BLM/BIA Bond No. in file FED: NM1693	17. Spacing, Unit dedicated to this well 320
22. Approximate date work will start* 11/19/2019	23. Estimated duration 60 days	24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) Bradley Bishop / Ph: (575)393-5905	Date 09/26/2019
Title Regulatory		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 01/06/2020
Title Petroleum Engineer		
Office CARLSBAD		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

APPROVED WITH CONDITIONS
Approval Date: 01/06/2020

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

The BLM connects this information to an 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: NWSW / 2090 FSL / 230 FWL / TWSP: 20S / RANGE: 29E / SECTION: 17 / LAT: 32.5719846 / LONG: -104.1050404 (TVD: 27 feet, MD: 27 feet)
PPP: SWNW / 2200 FNL / 0 FWL / TWSP: 20S / RANGE: 29E / SECTION: 16 / LAT: 32.5747106 / LONG: -104.0886162 (TVD: 9114 feet, MD: 14227 feet)
PPP: SWNW / 2200 FNL / 100 FWL / TWSP: 20S / RANGE: 29E / SECTION: 17 / LAT: 32.57472 / LONG: -104.1046336 (TVD: 9058 feet, MD: 9291 feet)
BHL: SENE / 2200 FNL / 100 FEL / TWSP: 20S / RANGE: 29E / SECTION: 16 / LAT: 32.5746997 / LONG: -104.0717841 (TVD: 9153 feet, MD: 19412 feet)

BLM Point of Contact

Name:

Title:

Phone:

Email:

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.:	NMNM0001165
WELL NAME & NO.:	GLOCK 17/16 B3EH FED COM 1H
SURFACE HOLE FOOTAGE:	2090'/S & 230'/W
BOTTOM HOLE FOOTAGE:	2200'/S & 100'/E
LOCATION:	Section 17, T.20 S., R.29 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
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 checked="" type="checkbox"/> 4 String Area	<input checked="" 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

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

B. CASING

Casing Design:

1. The **20 inch** surface casing shall be set at approximately **400 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 **13-3/8** inch intermediate casing shall be set at approximately **1350** feet. The minimum required fill of cement behind the **13-3/8** inch first intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Excess cement calculates to -39%, additional cement might be required.
 - ❖ In High 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.
 - ❖ In Capitan Reef 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.
 - ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
(Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
3. The **9-5/8** inch intermediate casing shall be set at approximately **3025** feet. The minimum required fill of cement behind the **9-5/8** inch second intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Excess cement calculates to -36%, additional cement might be required.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
4. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 5. 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)

☒ 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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic

pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

OTA01062020

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

**MEWBOURNE OIL COMPANY
Lease Number NMNM0001165**

Pad 1

GLOCK 17/16 B3EH FED COM 1H

Surface Hole Location: 2090' FSL & 230' FWL, Section 17, T. 20 S., R. 29 E.

Bottom Hole Location: 2200' FNL & 100' FEL, Section 16, T. 20 S, R. 29 E.

GLOCK 17/16 W0LI FED COM 1H

Surface Hole Location: 2060' FSL & 230' FWL, Section 17, T. 20 S., R. 29 E.

Bottom Hole Location: 2200' FSL & 100' FEL, Section 16, T. 20 S, R. 29 E.

Pad 2

GLOCK 17/16 B3MP FED COM 1H

Surface Hole Location: 1300' FSL & 230' FWL, Section 17, T. 20 S., R. 29 E.

Bottom Hole Location: 1310' FSL & 100' FEL, Section 16, T. 20 S, R. 29 E.

GLOCK 17/16 W0MP FED COM 1H

Surface Hole Location: 1270' FSL & 230' FWL, Section 17, T. 20 S., R. 29 E.

Bottom Hole Location: 440' FSL & 100' FEL, Section 16, T. 20 S, R. 29 E.

TABLE OF CONTENTS

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

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

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production:

Construction:

General Construction:

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

Pad Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche – no blasting.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.

- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will be vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

Tank Battery Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche – no blasting.
- All tank battery locations and facilities will be lined and bermed.
- The liner should be at least 20 mil in thickness and installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures.
- Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Road Construction:

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

Buried Pipeline/Cable Construction:

- Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

Powerline Construction:

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

Surface Flowlines Installation:

- Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

Leak Detection System:

- A method of detecting leaks is required. The method could incorporate gauges to measure loss, siting valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present.
- A leak detection plan will be submitted to BLM that incorporates an automatic shut off system (see below) to minimize the effects of an undesirable event that could negatively sensitive cave/karst resources.
- Well heads, pipelines (surface and buried), storage tanks, and all supporting equipment should be monitored regularly after installation to promptly identify and fix leaks.

Automatic Shut-off Systems:

- Automatic shut off, check valves, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and groundwater concerns:

Closed Loop System:

- A closed loop system using steel tanks will be utilized during drilling – no pits
- All fluids and cuttings will be hauled off-site and disposed of properly at an authorized site

Rotary Drilling with Fresh Water:

- Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

- The kick off point for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

- ALL lost circulation zones between surface and the base of the cave occurrence zone will be logged and reported in the drilling report.
- If a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, regardless of the type of drilling machinery used, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

- Additional plugging conditions of approval may be required upon well abandonment in high and medium karst potential occurrence zones.

- The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

- The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice.
- If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Watershed

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

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

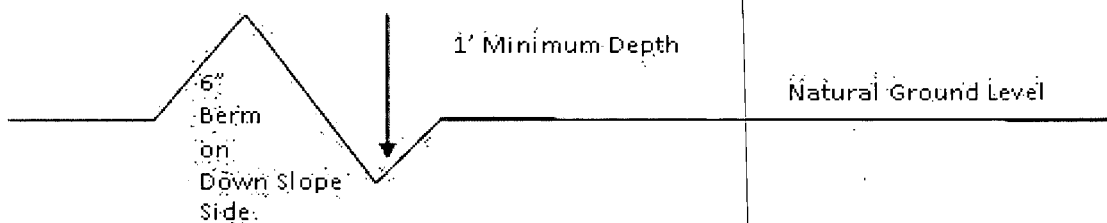
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

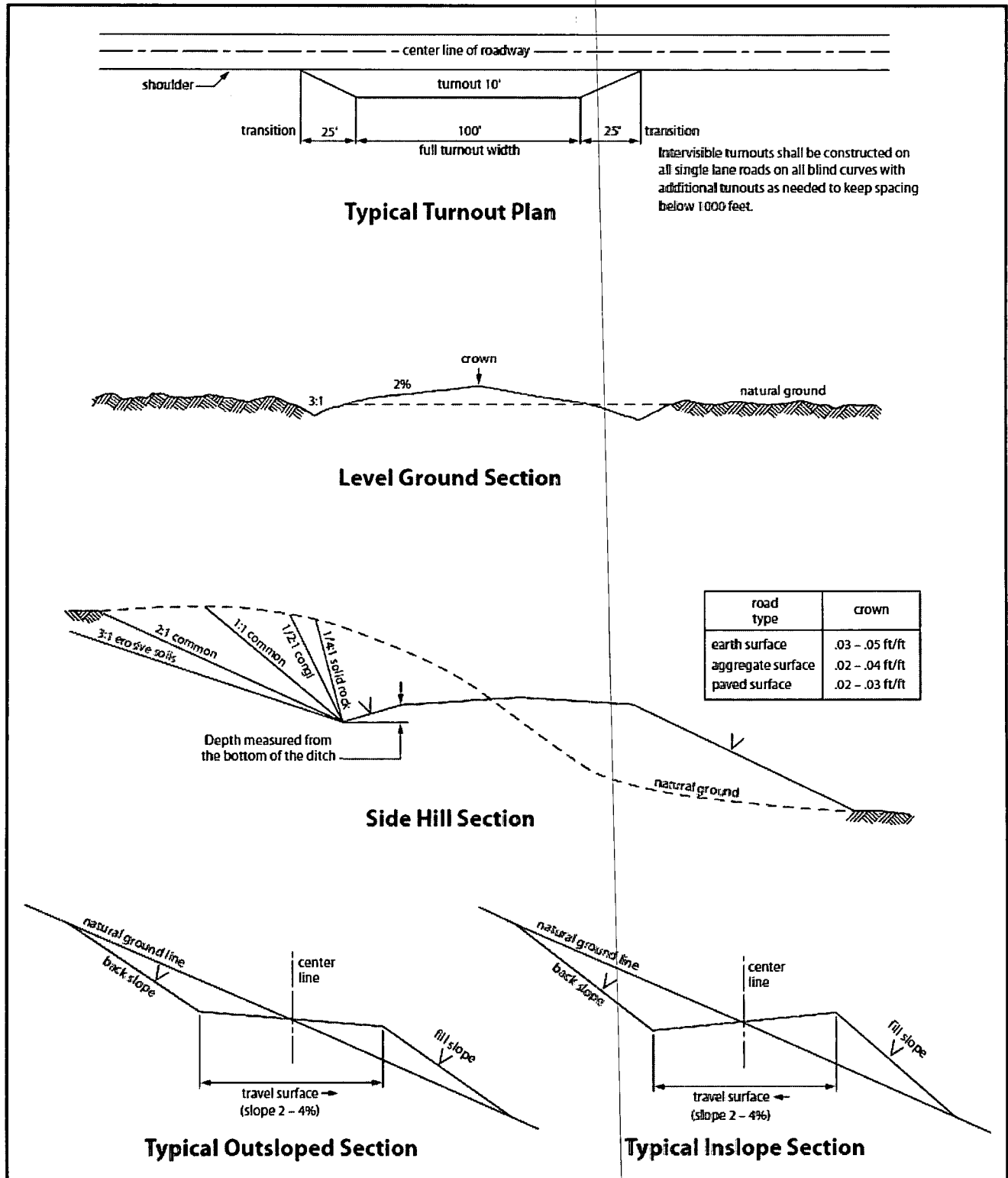


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production

equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

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

Painting Requirement

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42

U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be

segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input checked="" type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the

holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

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

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the application (Grant, Sundry Notice, APD) and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage

to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such

amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner

of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

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

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

Seed Mixture 2, for Sandy Sites

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

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

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

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

*Pounds of pure live seed:

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



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

Operator Certification Data Report

01/06/2020

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

Title: Regulatory

Street Address:

City:

State:

Phone: (575)393-5905

Email address: bbishop@mewbourne.com

Signed on: 09/26/2019

Zip:

Field Representative

Representative Name:

Street Address:

City:

State:

Phone: (575)393-5905

Email address: bbishop@mewbourne.com

Zip:



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

Application Data Report

01/06/2020

APD ID: 10400047686

Submission Date: 09/26/2019

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400047686

Tie to previous NOS? N

Submission Date: 09/26/2019

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: NMNM0001165

Lease Acres: 2494.41

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO

APD Operator: MEWBOURNE OIL COMPANY

Operator letter of designation:

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: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: GATUNA CANYON Pool Name: BONE SPRING

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

Operator Name: MEWBORNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

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

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Glock Number: 2

17/16 MP Fed Com wells

Well Class: HORIZONTAL

Number of Legs: 1

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: 1012 FT

Distance to lease line: 185 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: GLOCK17_16B3EHFEDCOM1H_wellplat_20190919111425.pdf

Well work start Date: 11/19/2019

Duration: 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	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	Will this well produce from this lease?
SHL Leg #1	2090	FSL	230	FWL	20S	29E	17	Aliquot NWS W	32.5719846	-104.1050404	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 0001165	3308	27	27	Y
KOP Leg #1	2200	FNL	10	FWL	20S	29E	17	Aliquot SWN W	32.5747206	-104.1057568	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 0001165	-5291	8674	8599	Y
PPP Leg	2200	FNL	100	FWL	20S	29E	17	Aliquot SWN	32.57472	-104.1046	EDD Y	NEW MEXI	NEW MEXI	F	NMNM 000116	-575	9291	9058	Y

Operator Name: MEWBORNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Wellbore	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	Will this well produce from this lease?
PPP Leg #1-2	220 0	FNL	0	FW L	20S	29E	16	Aliquot SWN W	32.57471 06	- 104.0886 162	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055477 1	- 580 6	142 27	911 4	Y
EXIT Leg #1	220 0	FNL	100	FEL	20S	29E	16	Aliquot SENE	32.57469 97	- 104.0717 841	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055477 1	- 584 5	194 12	915 3	Y
BHL Leg #1	220 0	FNL	100	FEL	20S	29E	16	Aliquot SENE	32.57469 97	- 104.0717 841	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055477 1	- 584 5	194 12	915 3	Y

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 52805		³ Pool Name RUSSELL - BONE SPRING				
⁴ Property Code		⁵ Property Name GLOCK 17/16 B3EH FED COM			⁶ Well Number 1H			
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3280'			
¹⁰ Surface Location								
UL or lot no. L	Section 17	Township 20S	Range 29E	Lot Idn 2090	Feet from the 230	North/South line SOUTH	East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface								
UL or lot no. H	Section 16	Township 20S	Range 29E	Lot Idn 2200	Feet from the 100	North/South line NORTH	East/West line EAST	County EDDY
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

<p>¹⁶</p> <p>CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1916" N: 569804.9 - E: 611437.8</p> <p>B: FOUND BRASS CAP "1916" N: 575088.6 - E: 611425.3</p> <p>C: FOUND BRASS CAP "1916" N: 575086.5 - E: 614071.1</p> <p>D: FOUND BRASS CAP "1916" N: 575085.0 - E: 616714.9</p> <p>E: FOUND BRASS CAP "1916" N: 575095.2 - E: 619357.5</p> <p>F: FOUND BRASS CAP "1916" N: 575105.3 - E: 621999.3</p> <p>G: FOUND BRASS CAP "1916" N: 572462.9 - E: 622006.1</p> <p>H: FOUND BRASS CAP "1916" N: 569820.2 - E: 622012.4</p> <p>I: FOUND BRASS CAP "1916" N: 569809.9 - E: 619369.9</p> <p>J: FOUND BRASS CAP "1916" N: 569798.5 - E: 616727.8</p> <p>K: FOUND BRASS CAP "1916" N: 569801.9 - E: 614082.2</p> <p>L: FOUND BRASS CAP "1916" N: 572443.7 - E: 616721.6</p>		<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.</p> <p>Signature: <i>[Signature]</i> Date: 9-19-19</p> <p>Printed Name: BRADLEY BISHOP</p> <p>E-mail Address: BBISHOP@MEWBOURNE.COM</p>
<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey: 9-09-2019</p> <p>Signature and Seal of Professional Surveyor: <i>[Signature]</i></p> <p>19680</p> <p>Certificate Number: 19680</p> <p>Job No: LS19090887</p>		



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

Drilling Plan Data Report

01/06/2020

APD ID: 10400047686

Submission Date: 09/26/2019

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH 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
541748	UNKNOWN	3308	28	28	OTHER : Topsoil	NONE	N
541752	TOP SALT	2828	480	480	SALT	NONE	N
541749	BOTTOM SALT	2448	860	860	SALT	NONE	N
541756	YATES	2238	1070	1070	SANDSTONE	NATURAL GAS, OIL	N
541757	CAPITAN REEF	1878	1430	1430	DOLOMITE, LIMESTONE	USEABLE WATER	N
541754	LAMAR	168	3140	3140	LIMESTONE	NATURAL GAS, OIL	N
541747	BONE SPRINGS	-2472	5780	5780	LIMESTONE, SHALE	NATURAL GAS, OIL	N
541750	BONE SPRING 1ST	-3547	6855	6855	SANDSTONE	NATURAL GAS, OIL	N
541751	BONE SPRING 2ND	-4147	7455	7455	SANDSTONE	NATURAL GAS, OIL	N
541761	BONE SPRING 3RD	-5482	8790	8790	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 19412

Equipment: Annular, Pipe Rams, 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 not required by manufacturer. A multi-bowl wellhead is being used. See attached schematic

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

Other Diagram Attachments:

Glock_17_16_B3EH_Fed_Com_1H_5M_BOPE_Choke_Diagram_20190925134902.pdf

Glock_17_16_B3EH_Fed_Com_1H_Flex_Line_Specs_20190925134902.pdf

Glock_17_16_B3EH_Fed_Com_1H_Flex_Line_Specs_API_16C_20191227103403.pdf

POP Diagram Attachment:

Glock_17_16_B3EH_Fed_Com_1H_Multi_Bowl_WH_20190925134913.pdf

Glock_17_16_B3EH_Fed_Com_1H_5M_BOPE_Schematic_20190925134933.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	26	20.0	NEW	API	N	0	400	0	400	3308	2908	400	J-55	94	BUTT	2.84	11.53	DRY	37.29	DRY	39.56
2	INTERMEDIATE	17.5	13.375	NEW	API	N	0	1350	0	1350	3229	1958	1350	J-55	54.5	BUTT	1.68	4.05	DRY	6.99	DRY	11.59
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3025	0	3025	3624	283	3025	J-55	36	LT&C	1.46	2.54	DRY	4.16	DRY	5.18
4	PRODUCTION	8.75	7.0	NEW	API	N	0	9290	0	9058	3635	-5750	9290	P-110	26	LT&C	1.39	2.22	DRY	2.65	DRY	3.44
5	LINER	6.125	4.5	NEW	API	N	8674	19412	8599	9153	-5291	-5845	10738	P-110	13.5	LT&C	2.24	2.61	DRY	2.33	DRY	2.91

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY	
Well Name: GLOCK 17/16 B3EH FED COM	Well Number: 1H

Casing Attachments

Casing ID: 1	String Type: SURFACE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Glock_17_16_B3EH_Fed_Com_1H_Csg_assumptions_20190925135259.pdf	

Casing ID: 2	String Type: INTERMEDIATE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Glock_17_16_B3EH_Fed_Com_1H_Csg_assumptions_20190925135424.pdf	

Casing ID: 3	String Type: INTERMEDIATE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Glock_17_16_B3EH_Fed_Com_1H_Csg_assumptions_20190925135508.pdf	

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Casing Attachments

Casing ID: 4String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Glock_17_16_B3EH_Fed_Com_1H_Csg_assumptions_20190925135549.pdf

Casing ID: 5String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Glock_17_16_B3EH_Fed_Com_1H_Csg_assumptions_20190925135644.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	311	450	2.12	12.5	954	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		311	400	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	1380	0	808	180	2.12	12.5	382	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		880	1380	200	1.34	14.8	268	25	Class C	Retarder
INTERMEDIATE	Lead		0	1079	510	2.12	12.5	1081	25	Class C	Salt, Gel, Extender,

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		1079	1350	200	1.34	14.8	268	25	Class C	Retarder
INTERMEDIATE	Lead	1380	1380	2340	180	2.12	12.5	382	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		2340	3025	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		1300	6823	620	2.12	12.5	1314	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		6823	9290	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
INNER	Lead		8674	19412	430	2.97	11.2	1277	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

Describe the mud monitoring system utilized: Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	400	SPUD MUD	8.6	8.8							

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH 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
400	1350	SALT SATURATED	10	10							
1350	9058	WATER-BASED MUD	8.6	9.7							
9058	9153	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 (8674') to surface

Will run MWD GR from KOP (8674') to TD

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4760

Anticipated Surface Pressure: 2746

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:

Glock_17_16_B3EH_Fed_Com_1H_H2S_Plan_20190925140802.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Glock_17_16_B3EH_Fed_Com_1H_Dir_plan_20190925140824.pdf

Glock_17_16_B3EH_Fed_Com_1H_Dir_plot_20190925140824.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Glock_17_16_B3EH_Fed_Com_1H_Add_Info_20190925140914.pdf

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

Customer Ref. :

4060578

Invoice No. :

500506

Test Date:

4/30/2015

Hose Serial No.:

D-043015-7

Created By:

JUSTIN CROPPER

Product Description:

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

End Fitting 1 :

4 1/16 10K FLG

End Fitting 2 :

4 1/16 10K FLG

Gates Part No. :

4773-6290

Assembly Code :

L36554102914D-043015-7

Working Pressure :

10,000 PSI

Test Pressure :

15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :

QUALITY

Date :

4/30/2015

Signature :

Production:

Date :

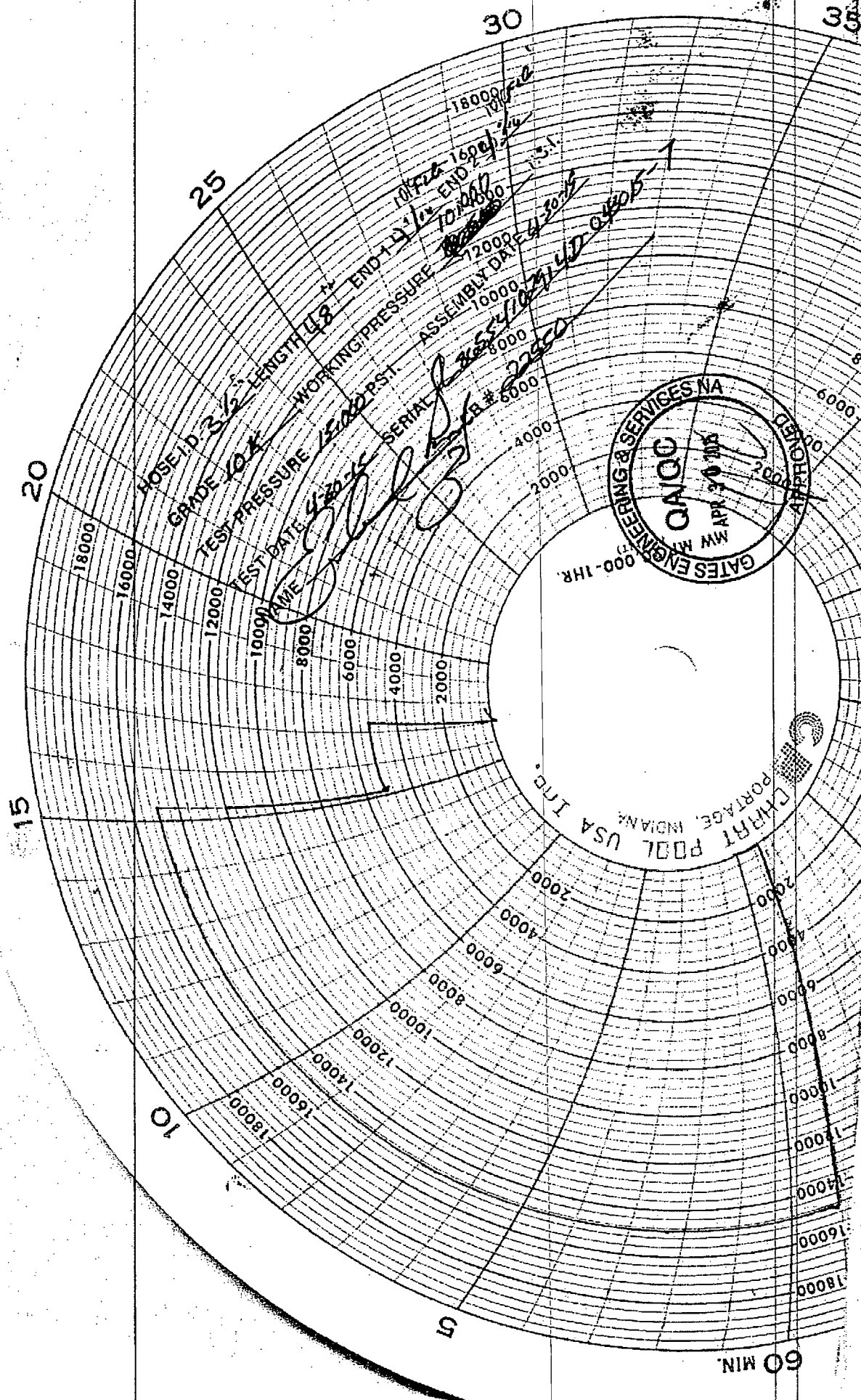
Signature :

PRODUCTION

4/30/2015

Form PTC - 01 Rev.02





HOSE I.D. 3 1/2" LENGTH 48' END 1 1/2" END 2 1/2"
GRADE 10% TEST PRESSURE 15000 PSI ASSEMBLY DATE 4-30-75
TEST DATE 4-30-75 SERIAL # 22950
NAME [Signature]

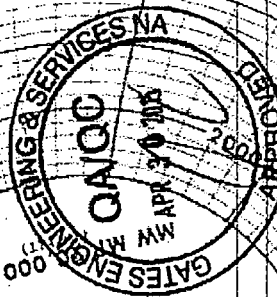
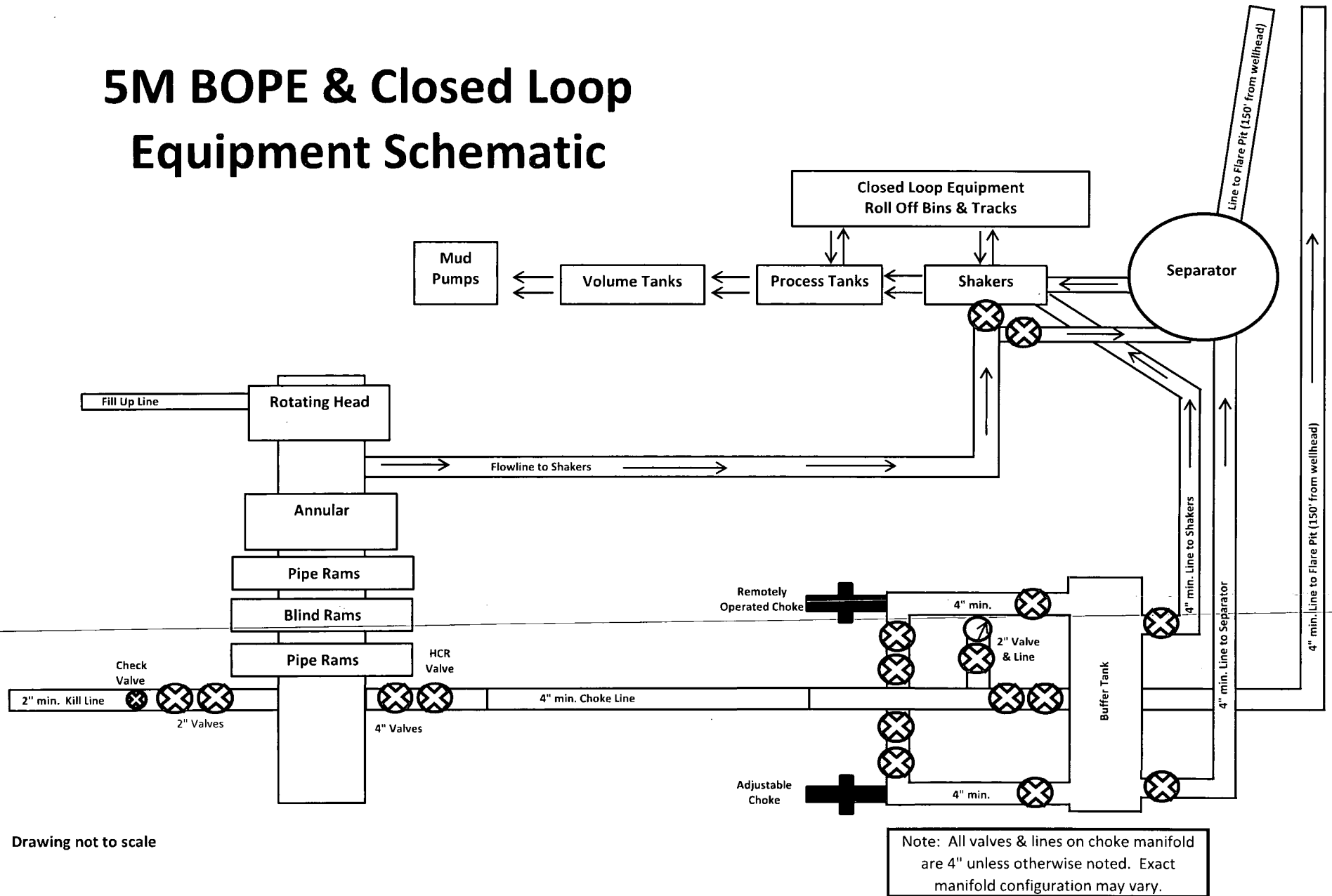


CHART POOL USA INC.
PORTAGE, INDIANA

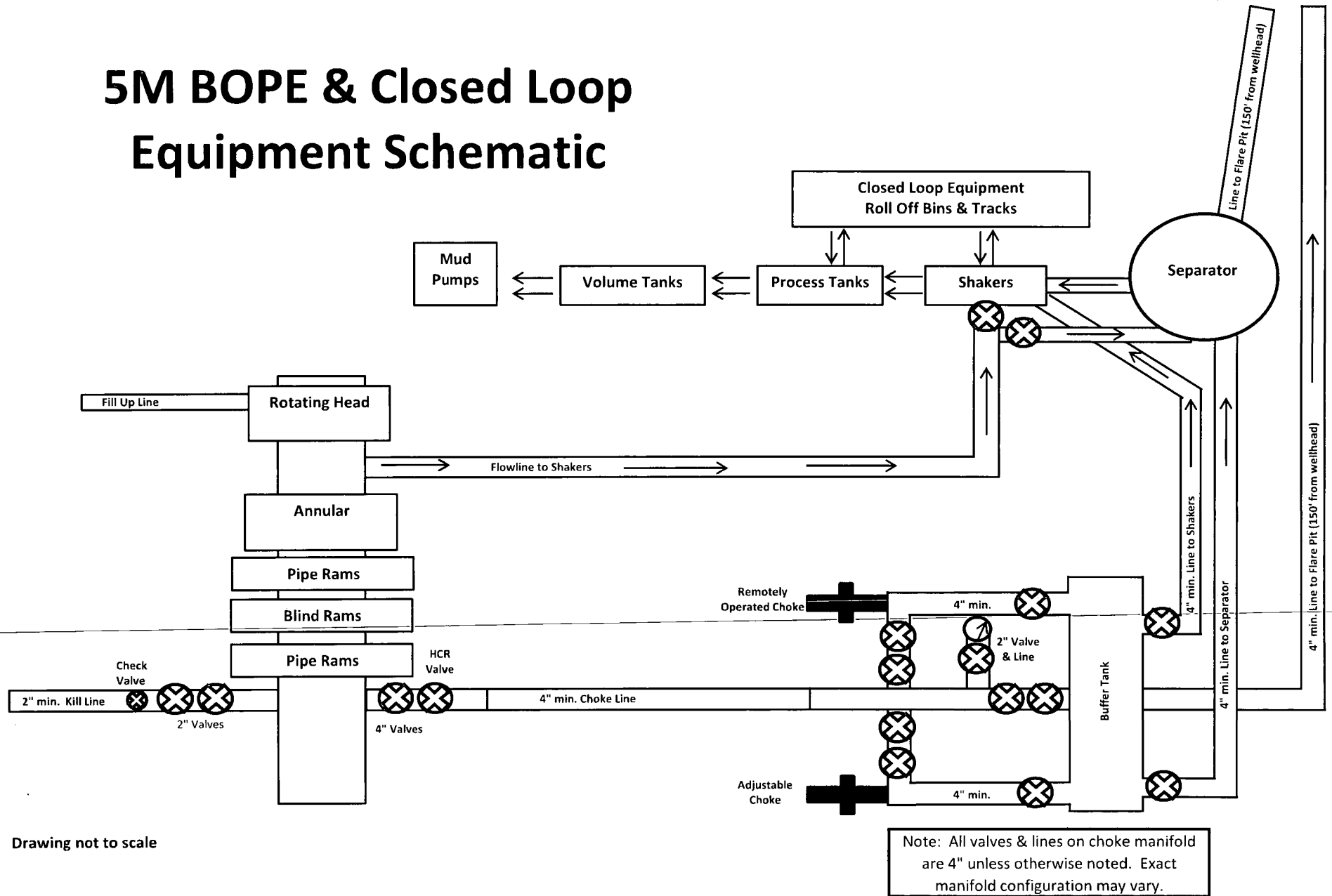
60 MIN

5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

5M 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 :
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



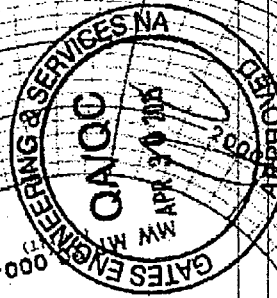
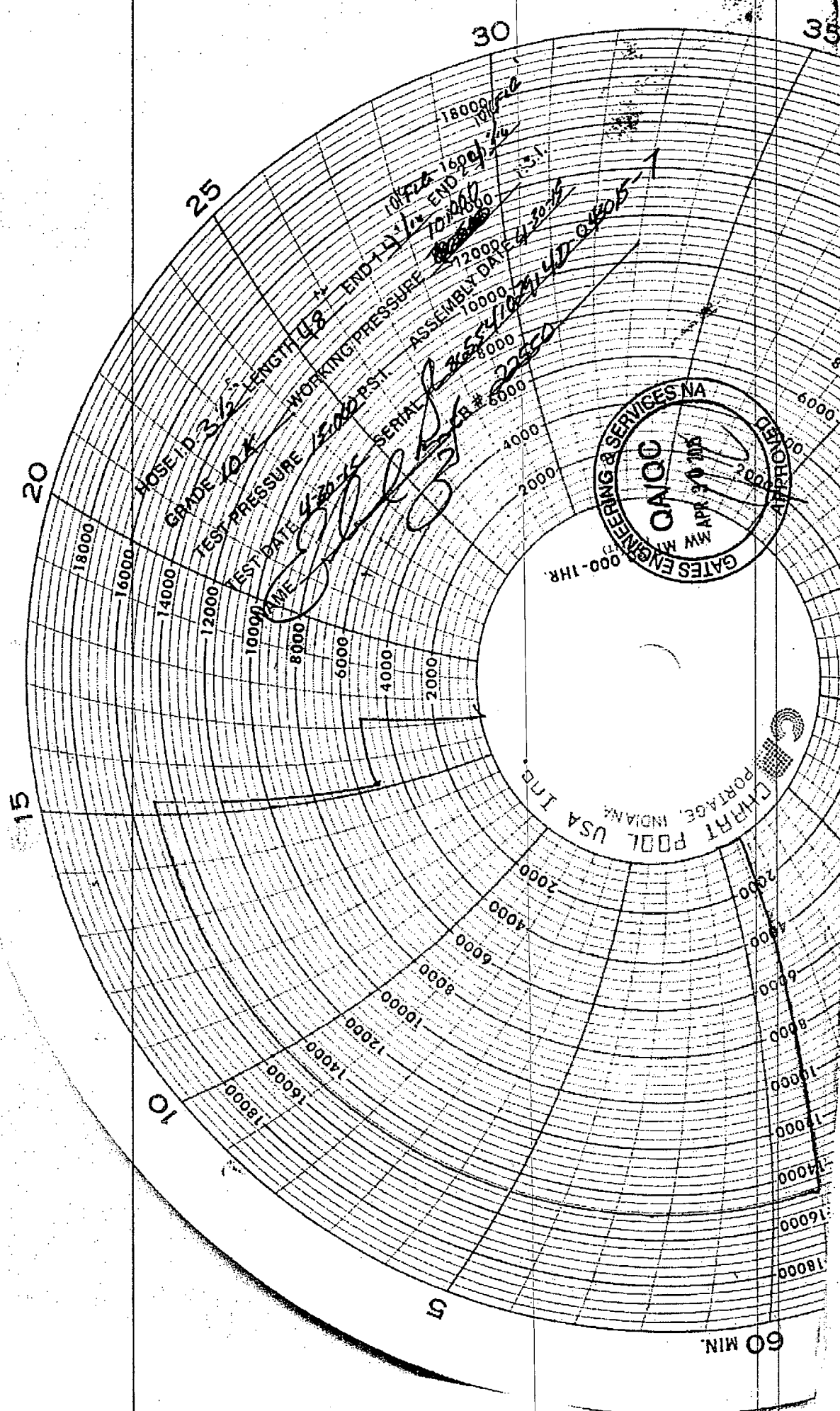


CHART POOL USA INC.
PORTAGE, INDIANA

60 MIN.



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

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

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE		
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :
Date :
Signature :

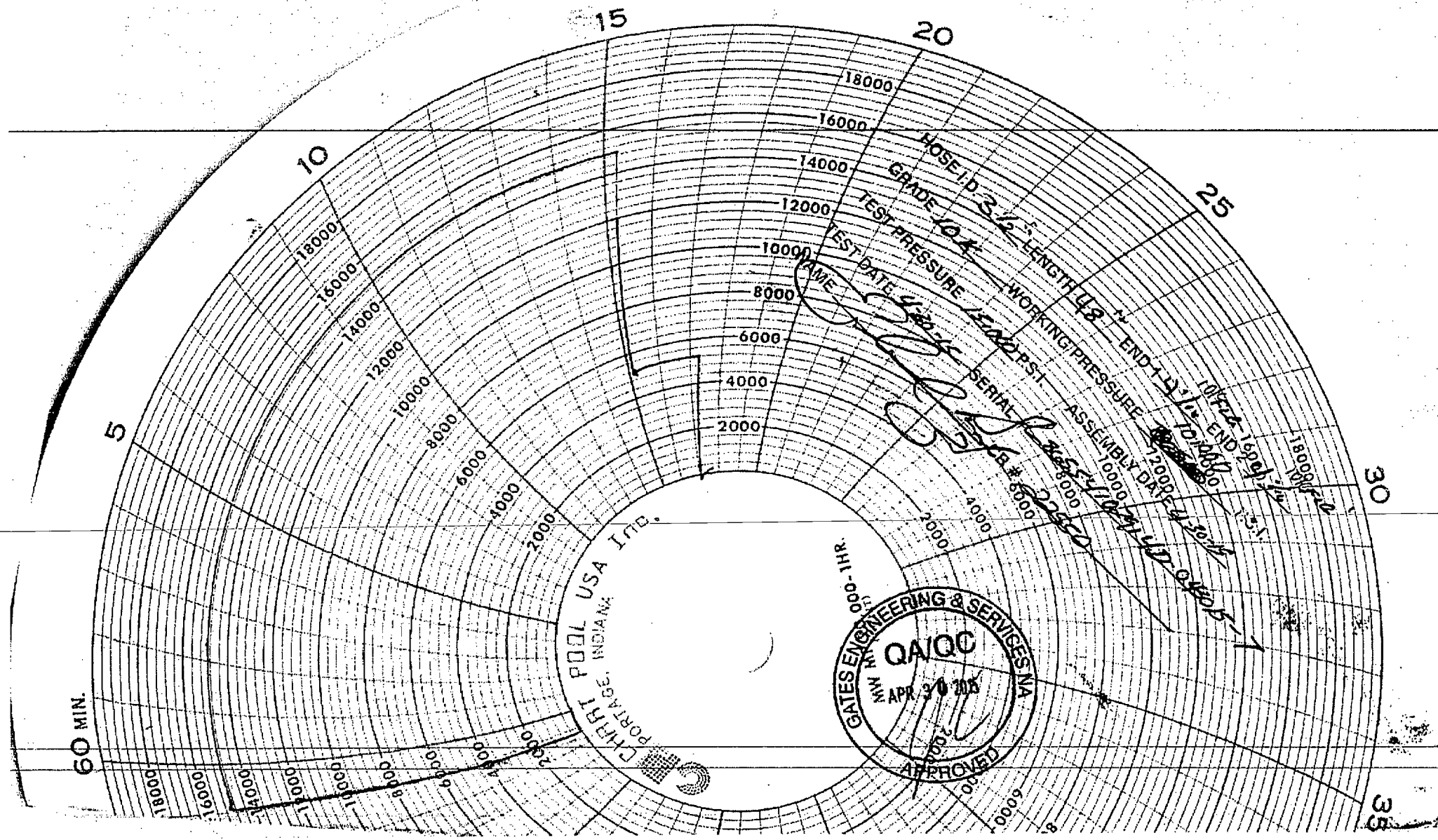
QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:
Date :
Signature :

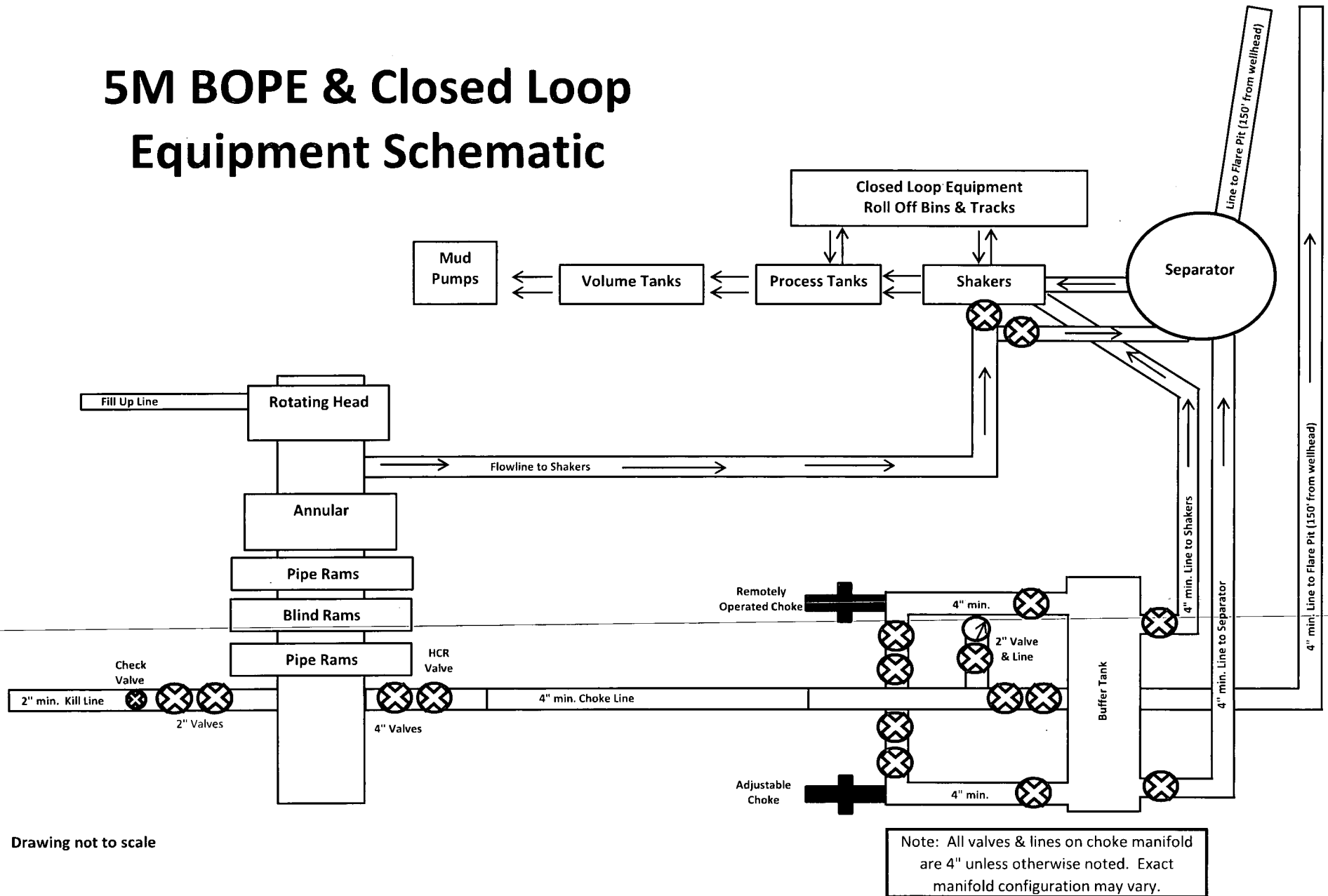
PRODUCTION
4/30/2015
<i>Justin Cropper</i>

Form PTC - 01 Rev.02



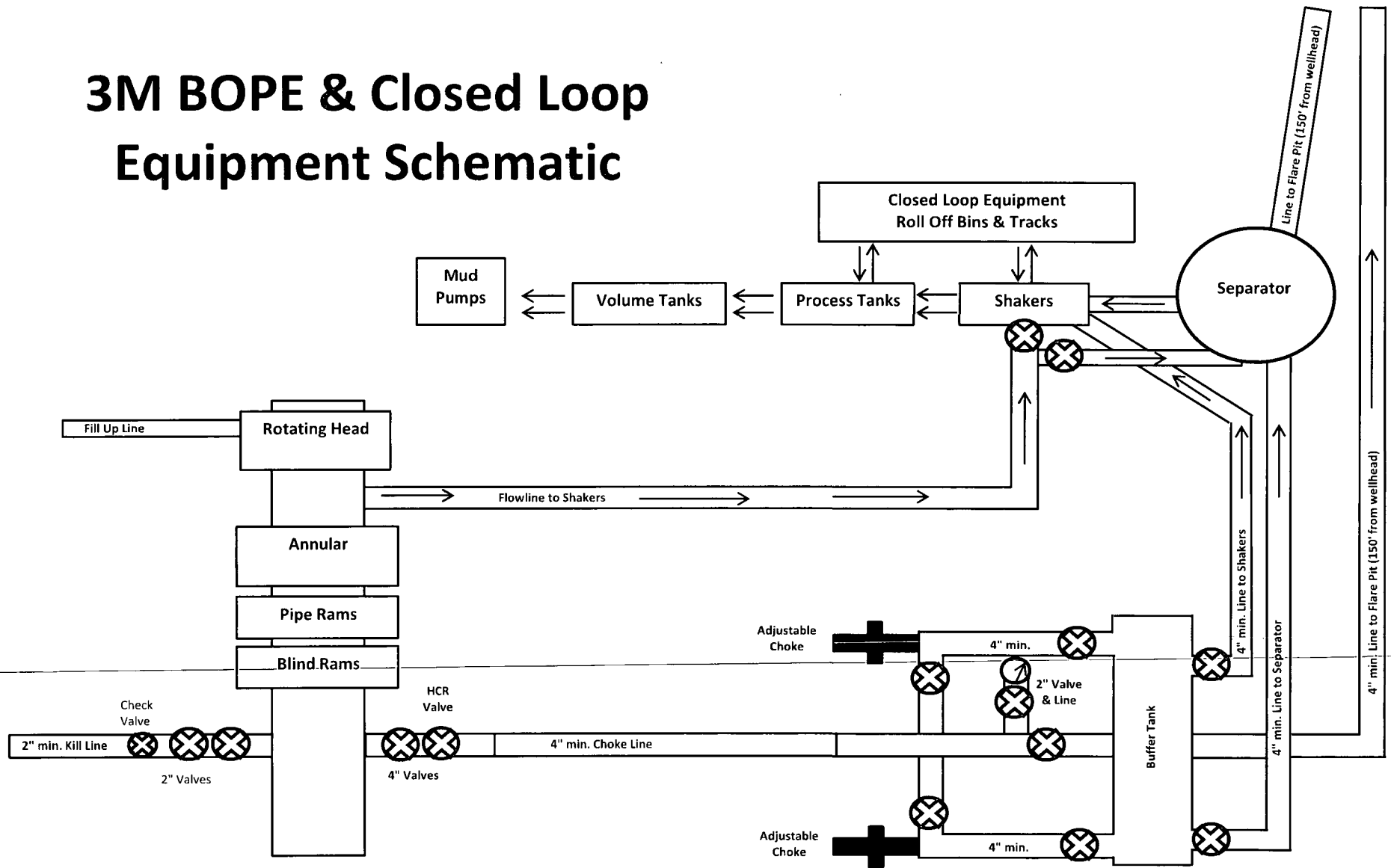


5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

3M BOPE & Closed Loop Equipment Schematic



Drawing not to scale



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

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

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE		
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :
Date :
Signature :

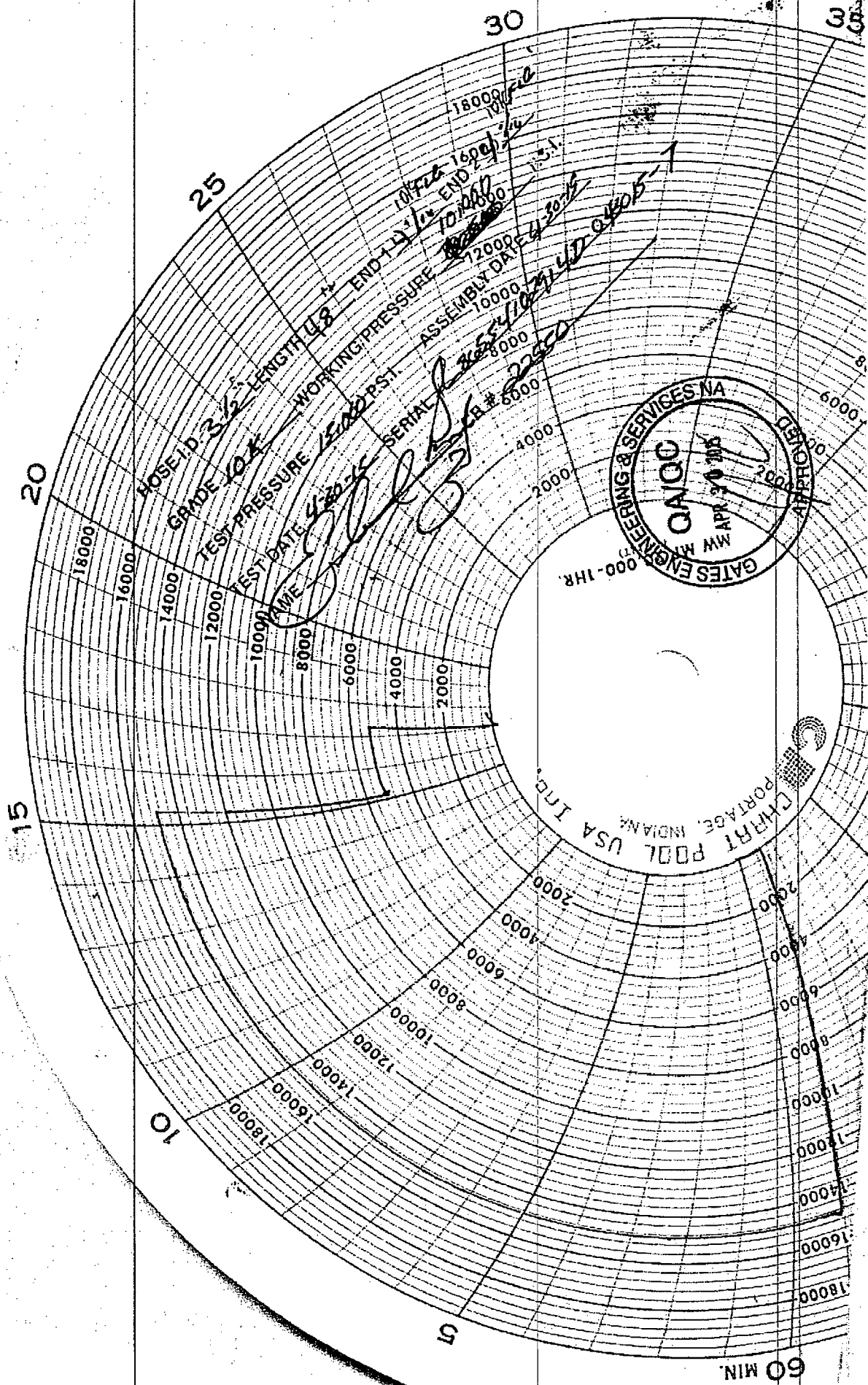
QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:
Date :
Signature :

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

Form PTC - 01 Rev.02







GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN IHC ODA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101801	Hose Serial No.:	11-002018-10
Invoice No.:	511955	Created By:	Mosra Naqvi
Product Description:	10KFB.035.0CK41/1610KFLGFXDxFLT L/E		
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

Gates Engineering & Services North America certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements.

Quality:
Date :
Signature :

QUALITY
8/20/2018
<i>Mosra Naqvi</i>

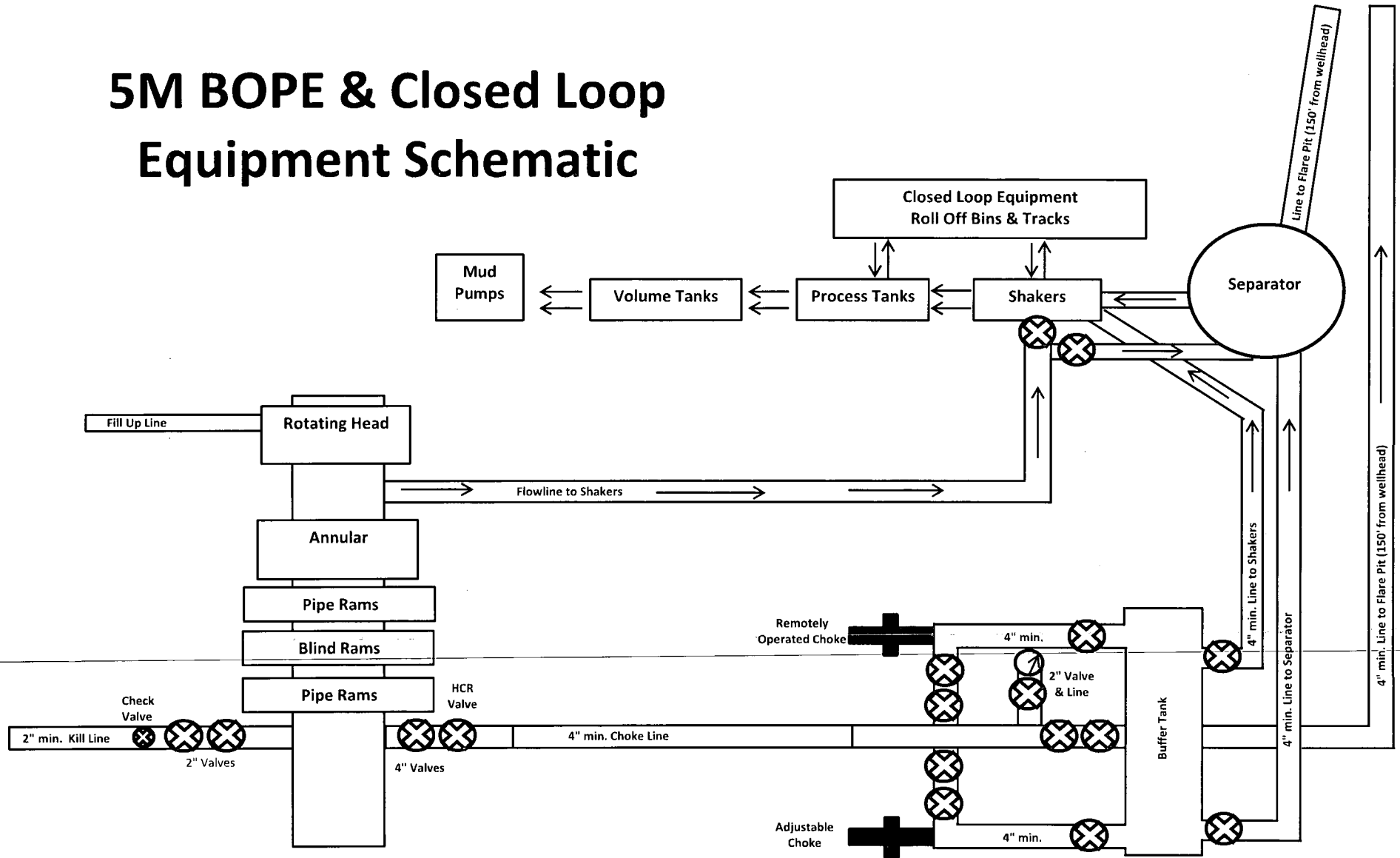
Production:
Date :
Signature :

PRODUCTION
8/20/2018
<i>[Signature]</i>

Form PTC - 01 Rev.02



5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

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



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

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

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER
Product Description: 10K3.548.0CK4.1/1610KFLGE/E LE			
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

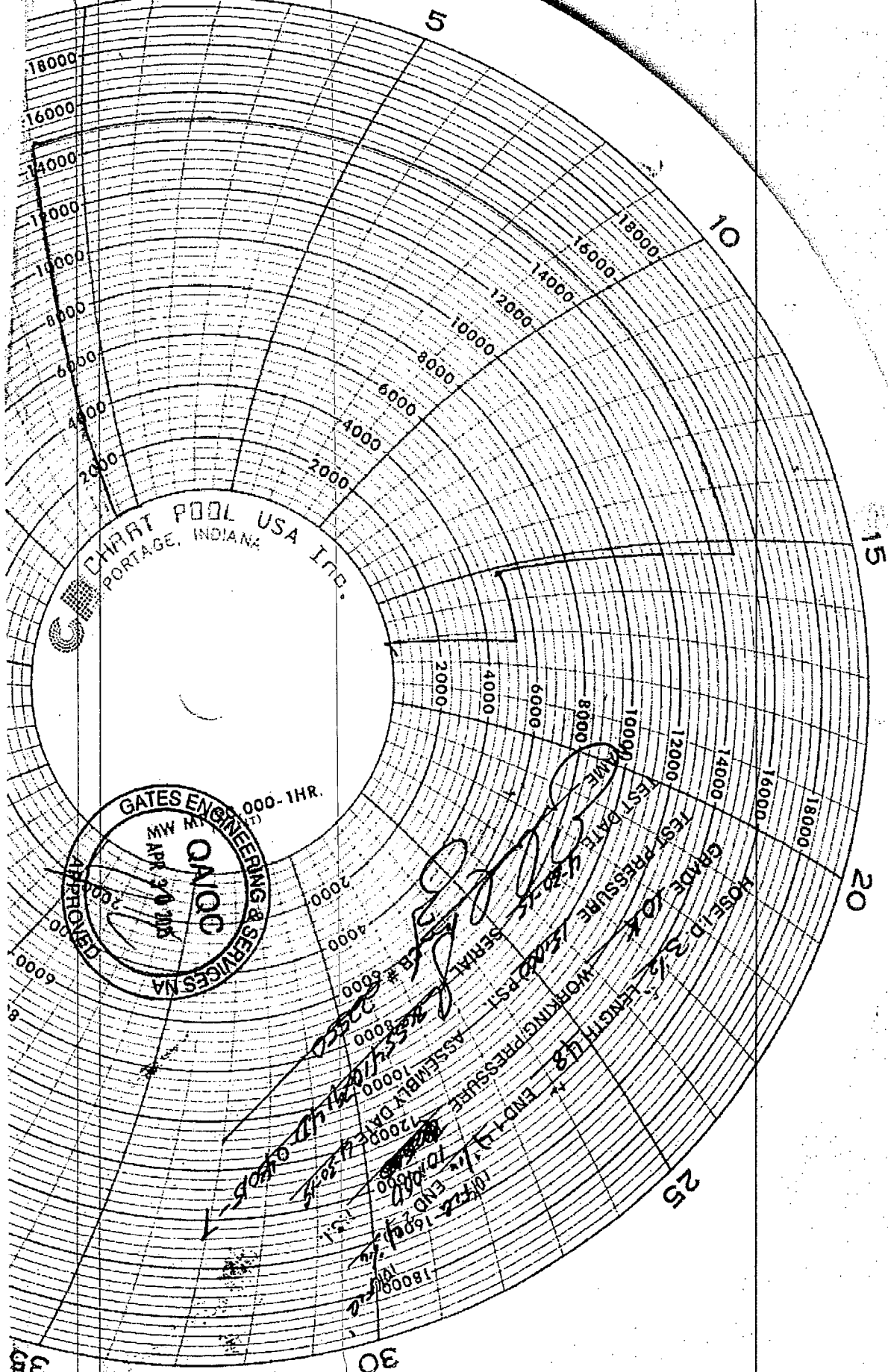
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

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

Form PTC - 01 Rev.02



60 MIN.





GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC ODA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101901	Hose Serial No.:	11-082018-10
Invoice No.:	511956	Created By:	Moore Nagvi
Product Description:	10KX3.035.0CK41/1610KFLGFXDxFLT L/E		
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

Gates Engineering & Services North America certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements.

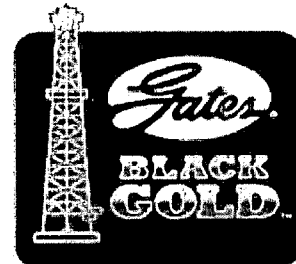
Quality:
Date :
Signature :

QUALITY
8/20/2018
<i>Moore Nagvi</i>

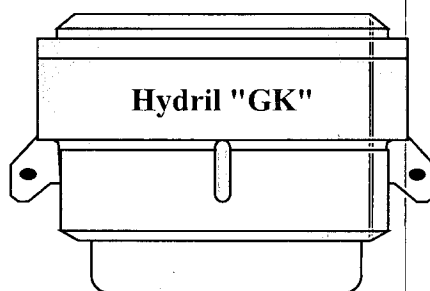
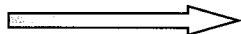
Production:
Date :
Signature :

PRODUCTION
8/20/2018
<i>[Signature]</i>

Form PTC - 01 Rev.02

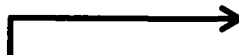


Hydril "GK"
13 5/8" 5M

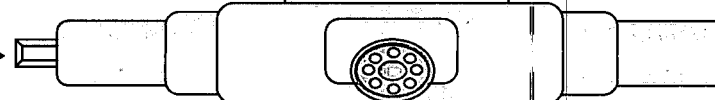
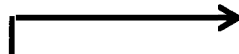


Hydril "GK"

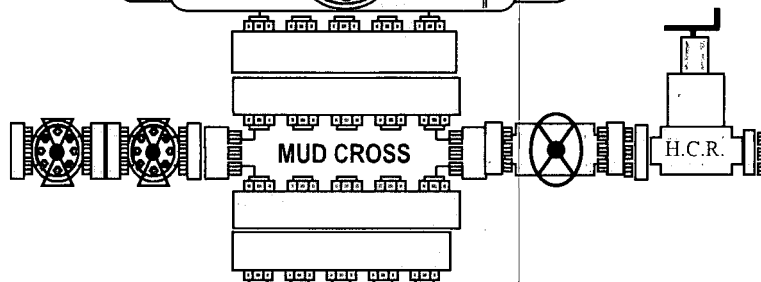
Cameron Type U
13 5/8" 5M



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



BLIND RAMS



MUD CROSS

H.C.R.



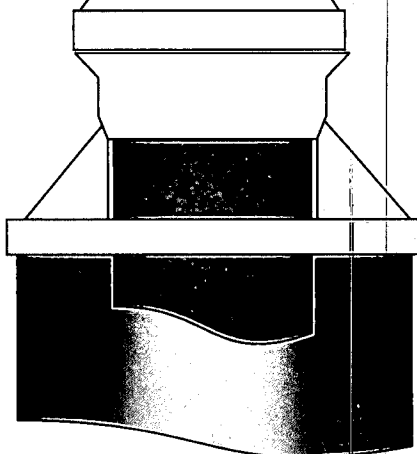
7" RAMS



13 5/8" 5M

13 5/8" 5M

13 5/8" 5M



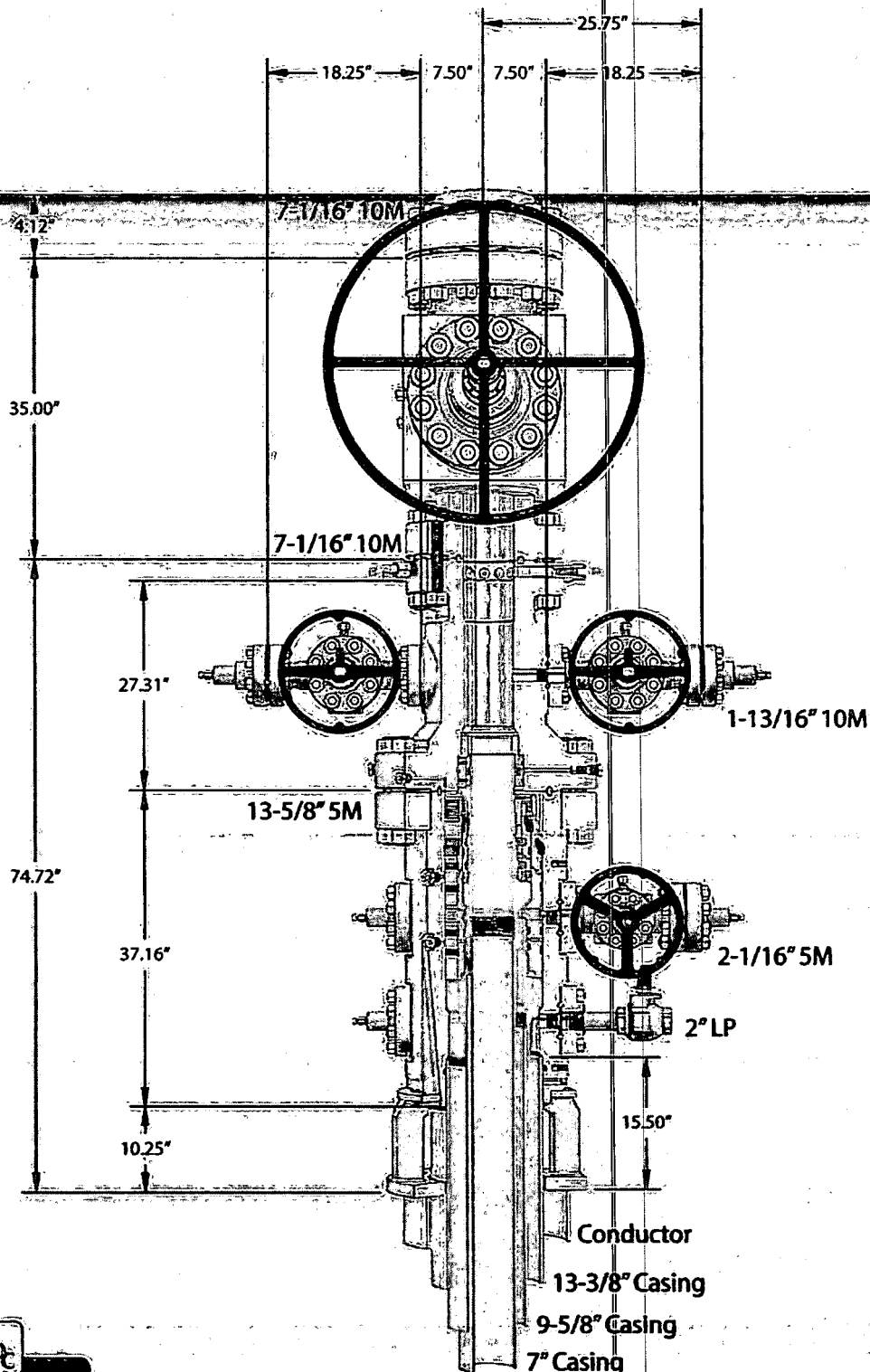
CAMERON

A Schlumberger Company

13-5/8" MN-DS Wellhead System

Ground Level

Ground Level



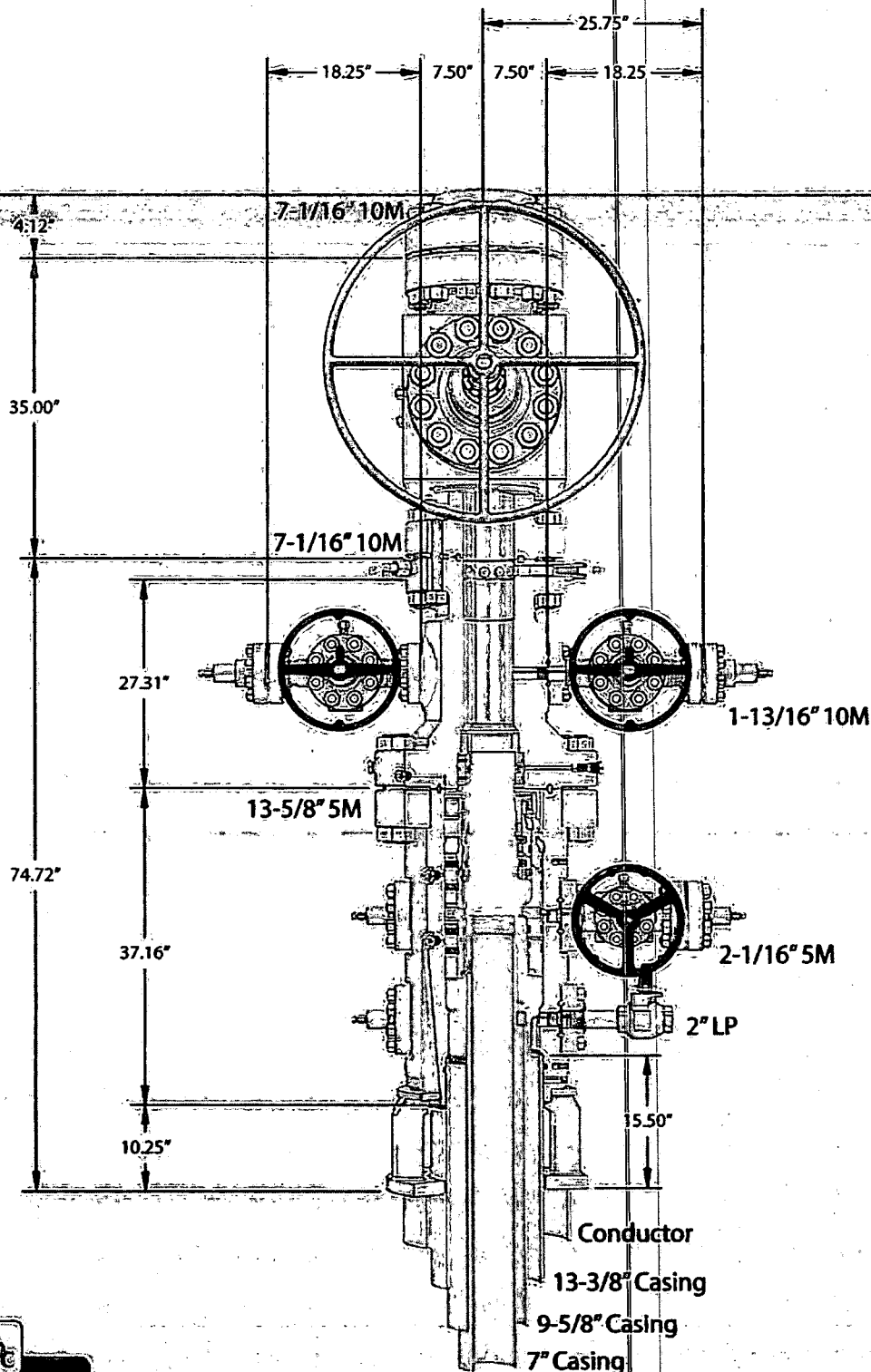
Capping Horns 57" conductor cut-off
79

C7585
Rev. 02

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

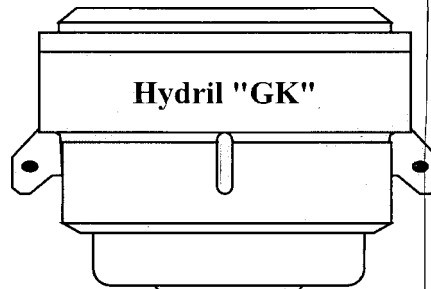
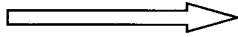
Ground Level

Ground Level

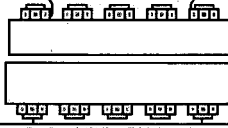


Capping Hanger 57" conductor cut-off
79

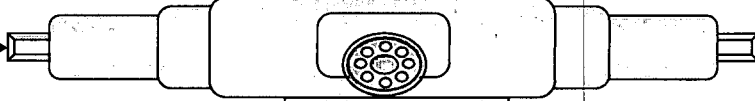
Hydril "GK"
13 5/8" 5M



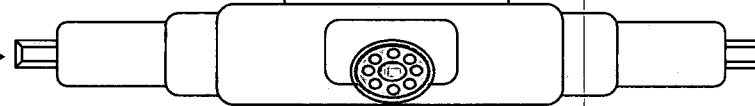
Hydril "GK"



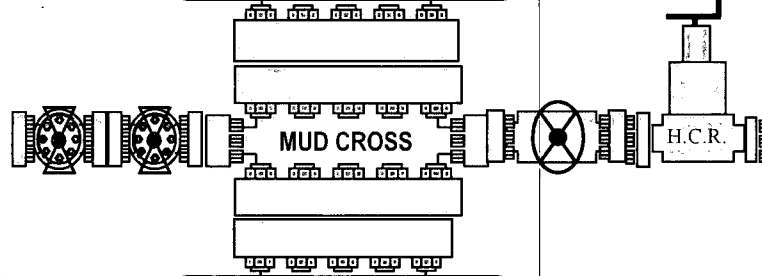
Cameron Type U
13 5/8" 5M



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



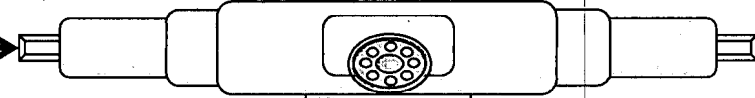
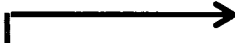
BLIND RAMS



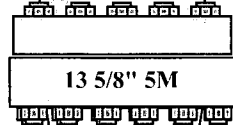
MUD CROSS



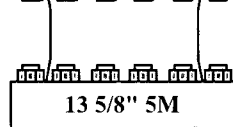
H.C.R.



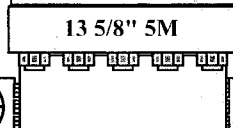
7" RAMS



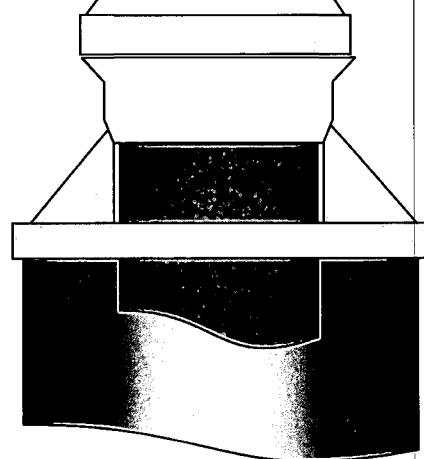
13 5/8" 5M



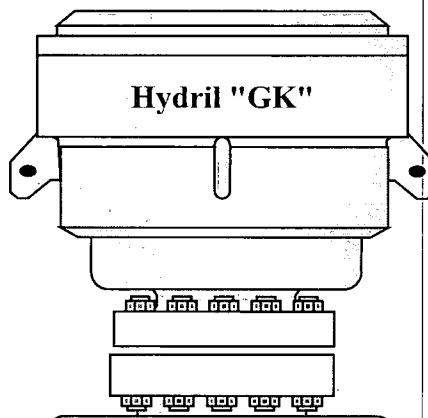
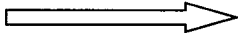
13 5/8" 5M



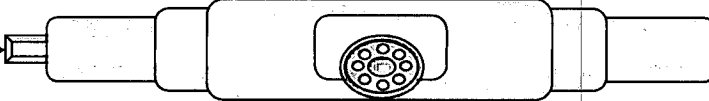
13 5/8" 5M



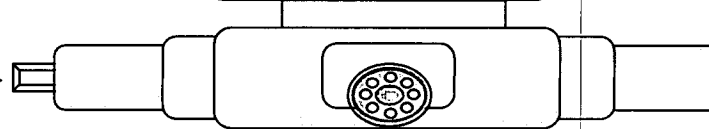
Hydril "GK"
13 5/8" 5M



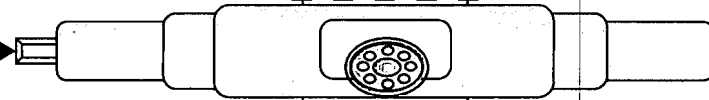
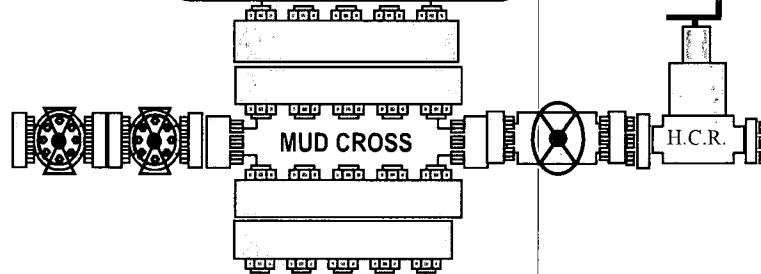
Cameron Type U
13 5/8" 5M



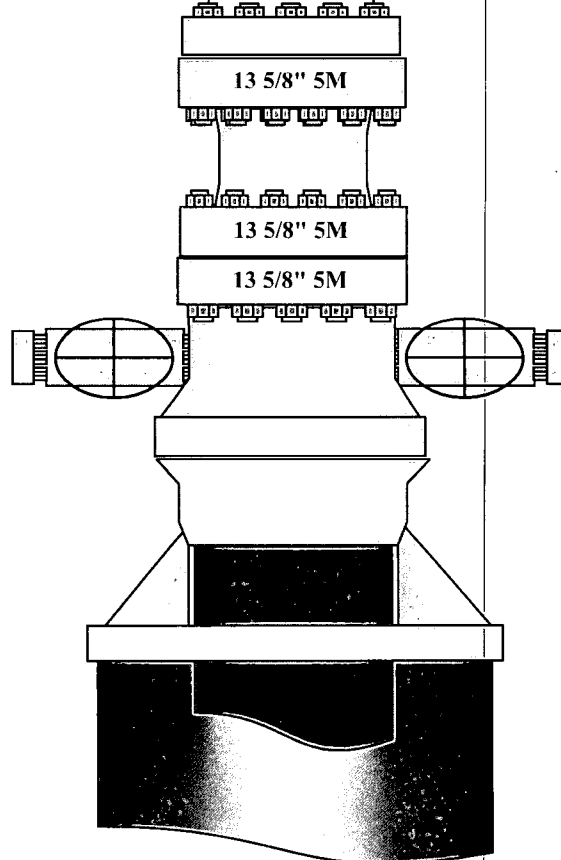
4 1/2" x 5 7/8" VBR



BLIND RAMS



7" RAMS



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, Glock 17/16 B3EH Fed Com #1H

Sec 17, T20S, R29E

SHL: 2090' FSL & 230' FWL, Sec 17

BHL: 2200' FNL & 100' FEL, Sec 16

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
26"	0'	400'	20"	94	J55	BTC	2.84	11.53	37.29	39.36
17.5"	0'	1350'	13.375"	54.5	J55	STC	1.68	4.05	4.38	7.35
12.25"	0'	3025'	9.625"	36	J55	LTC	1.46	2.54	4.16	5.18
8.75"	0'	9290'	7"	26	P110	LTC	1.39	2.22	2.65	3.44
6.125"	8674'	19,412'	4.5"	13.5	P110	LTC	2.24	2.61	2.91	2.33
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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Glock 17/16 B3EH Fed Com #1H

Sec 17, T20S, R29E

SHL: 2090' FSL & 230' FWL, Sec 17

BHL: 2200' FNL & 100' FEL, Sec 16

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
26"	0'	400'	20"	94	J55	BTC	2.84	11.53	37.29	39.36
17.5"	0'	1350'	13.375"	54.5	J55	STC	1.68	4.05	4.38	7.35
12.25"	0'	3025'	9.625"	36	J55	LTC	1.46	2.54	4.16	5.18
8.75"	0'	9290'	7"	26	P110	LTC	1.39	2.22	2.65	3.44
6.125"	8674'	19,412'	4.5"	13.5	P110	LTC	2.24	2.61	2.91	2.33
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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Glock 17/16 B3EH Fed Com #1H

Sec 17, T20S, R29E

SHL: 2090' FSL & 230' FWL, Sec 17

BHL: 2200' FNL & 100' FEL, Sec 16

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
26"	0'	400'	20"	94	J55	BTC	2.84	11.53	37.29	39.36
17.5"	0'	1350'	13.375"	54.5	J55	STC	1.68	4.05	4.38	7.35
12.25"	0'	3025'	9.625"	36	J55	LTC	1.46	2.54	4.16	5.18
8.75"	0'	9290'	7"	26	P110	LTC	1.39	2.22	2.65	3.44
6.125"	8674'	19,412'	4.5"	13.5	P110	LTC	2.24	2.61	2.91	2.33
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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Glock 17/16 B3EH Fed Com #1H

Sec 17, T20S, R29E

SHL: 2090' FSL & 230' FWL, Sec 17

BHL: 2200' FNL & 100' FEL, Sec 16

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
26"	0'	400'	20"	94	J55	BTC	2.84	11.53	37.29	39.36
17.5"	0'	1350'	13.375"	54.5	J55	STC	1.68	4.05	4.38	7.35
12.25"	0'	3025'	9.625"	36	J55	LTC	1.46	2.54	4.16	5.18
8.75"	0'	9290'	7"	26	P110	LTC	1.39	2.22	2.65	3.44
6.125"	8674'	19,412'	4.5"	13.5	P110	LTC	2.24	2.61	2.91	2.33
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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Glock 17/16 B3EH Fed Com #1H

Sec 17, T20S, R29E

SHL: 2090' FSL & 230' FWL, Sec 17

BHL: 2200' FNL & 100' FEL, Sec 16

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
26"	0'	400'	20"	94	J55	BTC	2.84	11.53	37.29	39.36
17.5"	0'	1350'	13.375"	54.5	J55	STC	1.68	4.05	4.38	7.35
12.25"	0'	3025'	9.625"	36	J55	LTC	1.46	2.54	4.16	5.18
8.75"	0'	9290'	7"	26	P110	LTC	1.39	2.22	2.65	3.44
6.125"	8674'	19,412'	4.5"	13.5	P110	LTC	2.24	2.61	2.91	2.33
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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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

Glock 17/16 B3EH Fed Com #1H

Sec 17, T20S, R29E

SHL: 2090' FSL & 230' FWL, Sec 17

BHL: 2200' FNL & 100' FEL, Sec 16

Plan: Design #1

Standard Planning Report

25 September, 2019

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 B3EH Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3308.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3308.0usft (Original Well Elev)
Site:	Glock 17/16 B3EH Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FNL & 100' FEL, Sec 16		
Design:	Design #1		

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

Site	Glock 17/16 B3EH Fed Com #1H		
Site Position:	Northing:	571,894.00 usft	Latitude: 32.5719843
From: Map	Easting:	611,663.00 usft	Longitude: -104.1050398
Position Uncertainty: 0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.12 °

Well	Sec 17, T20S, R29E		
Well Position	+N/-S	0.0 usft	Latitude: 32.5719843
	+E/-W	0.0 usft	Longitude: -104.1050398
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,380.0 usft

Wellbore	BHL: 2200' FNL & 100' FEL, Sec 16		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	9/25/2019	6.83
			Dip Angle
			(°)
			Field Strength
			(nT)
			60.21
			47,918

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			84.36

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	
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,929.6	8.69	347.37	1,927.4	42.8	-9.6	1.50	1.50	0.00	347.37	
8,094.7	8.69	347.37	8,021.6	952.2	-213.4	0.00	0.00	0.00	0.00	
8,674.3	0.00	0.00	8,599.0	995.0	-223.0	1.50	-1.50	0.00	180.00	KOP: 2200' FNL & 10'
9,421.5	89.56	89.91	9,077.0	995.7	251.4	11.99	11.99	0.00	89.91	
19,412.4	89.56	89.91	9,153.0	1,011.0	10,242.0	0.00	0.00	0.00	0.00	BHL: 2200' FNL & 10'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 B3EH Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3308.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3308.0usft (Original Well Elev)
Site:	Glock 17/16 B3EH Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FNL & 100' FEL, Sec 16		
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
SHL: 2090' FSL & 230' FWL (Sec 17)									
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
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.75	347.37	1,400.0	0.3	-0.1	0.0	1.50	1.50	0.00
1,500.0	2.25	347.37	1,500.0	2.9	-0.6	-0.4	1.50	1.50	0.00
1,600.0	3.75	347.37	1,599.8	8.0	-1.8	-1.0	1.50	1.50	0.00
1,700.0	5.25	347.37	1,699.5	15.6	-3.5	-2.0	1.50	1.50	0.00
1,800.0	6.75	347.37	1,799.0	25.8	-5.8	-3.2	1.50	1.50	0.00
1,900.0	8.25	347.37	1,898.1	38.6	-8.6	-4.8	1.50	1.50	0.00
1,929.6	8.69	347.37	1,927.4	42.8	-9.6	-5.3	1.50	1.50	0.00
2,000.0	8.69	347.37	1,997.0	53.2	-11.9	-6.6	0.00	0.00	0.00
2,100.0	8.69	347.37	2,095.8	68.0	-15.2	-8.5	0.00	0.00	0.00
2,200.0	8.69	347.37	2,194.7	82.7	-18.5	-10.3	0.00	0.00	0.00
2,300.0	8.69	347.37	2,293.5	97.5	-21.8	-12.2	0.00	0.00	0.00
2,400.0	8.69	347.37	2,392.4	112.2	-25.1	-14.0	0.00	0.00	0.00
2,500.0	8.69	347.37	2,491.2	127.0	-28.5	-15.8	0.00	0.00	0.00
2,600.0	8.69	347.37	2,590.1	141.7	-31.8	-17.7	0.00	0.00	0.00
2,700.0	8.69	347.37	2,688.9	156.5	-35.1	-19.5	0.00	0.00	0.00
2,800.0	8.69	347.37	2,787.8	171.2	-38.4	-21.4	0.00	0.00	0.00
2,900.0	8.69	347.37	2,886.6	186.0	-41.7	-23.2	0.00	0.00	0.00
3,000.0	8.69	347.37	2,985.5	200.7	-45.0	-25.0	0.00	0.00	0.00
3,100.0	8.69	347.37	3,084.3	215.5	-48.3	-26.9	0.00	0.00	0.00
3,200.0	8.69	347.37	3,183.2	230.2	-51.6	-28.7	0.00	0.00	0.00
3,300.0	8.69	347.37	3,282.0	245.0	-54.9	-30.6	0.00	0.00	0.00
3,400.0	8.69	347.37	3,380.9	259.7	-58.2	-32.4	0.00	0.00	0.00
3,500.0	8.69	347.37	3,479.7	274.5	-61.5	-34.3	0.00	0.00	0.00
3,600.0	8.69	347.37	3,578.6	289.2	-64.8	-36.1	0.00	0.00	0.00
3,700.0	8.69	347.37	3,677.4	304.0	-68.1	-37.9	0.00	0.00	0.00
3,800.0	8.69	347.37	3,776.3	318.7	-71.4	-39.8	0.00	0.00	0.00
3,900.0	8.69	347.37	3,875.1	333.5	-74.7	-41.6	0.00	0.00	0.00
4,000.0	8.69	347.37	3,974.0	348.2	-78.0	-43.5	0.00	0.00	0.00
4,100.0	8.69	347.37	4,072.8	363.0	-81.3	-45.3	0.00	0.00	0.00
4,200.0	8.69	347.37	4,171.7	377.7	-84.7	-47.1	0.00	0.00	0.00
4,300.0	8.69	347.37	4,270.5	392.5	-88.0	-49.0	0.00	0.00	0.00
4,400.0	8.69	347.37	4,369.4	407.2	-91.3	-50.8	0.00	0.00	0.00
4,500.0	8.69	347.37	4,468.2	422.0	-94.6	-52.7	0.00	0.00	0.00
4,600.0	8.69	347.37	4,567.1	436.7	-97.9	-54.5	0.00	0.00	0.00
4,700.0	8.69	347.37	4,665.9	451.5	-101.2	-56.3	0.00	0.00	0.00
4,800.0	8.69	347.37	4,764.8	466.2	-104.5	-58.2	0.00	0.00	0.00
4,900.0	8.69	347.37	4,863.6	481.0	-107.8	-60.0	0.00	0.00	0.00
5,000.0	8.69	347.37	4,962.5	495.7	-111.1	-61.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 B3EH Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3308.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3308.0usft (Original Well Elev)
Site:	Glock 17/16 B3EH Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FNL & 100' FEL, Sec 16		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	8.69	347.37	5,061.3	510.5	-114.4	-63.7	0.00	0.00	0.00
5,200.0	8.69	347.37	5,160.2	525.2	-117.7	-65.5	0.00	0.00	0.00
5,300.0	8.69	347.37	5,259.1	540.0	-121.0	-67.4	0.00	0.00	0.00
5,400.0	8.69	347.37	5,357.9	554.7	-124.3	-69.2	0.00	0.00	0.00
5,500.0	8.69	347.37	5,456.8	569.5	-127.6	-71.1	0.00	0.00	0.00
5,600.0	8.69	347.37	5,555.6	584.2	-130.9	-72.9	0.00	0.00	0.00
5,700.0	8.69	347.37	5,654.5	599.0	-134.2	-74.8	0.00	0.00	0.00
5,800.0	8.69	347.37	5,753.3	613.7	-137.5	-76.6	0.00	0.00	0.00
5,900.0	8.69	347.37	5,852.2	628.5	-140.9	-78.4	0.00	0.00	0.00
6,000.0	8.69	347.37	5,951.0	643.2	-144.2	-80.3	0.00	0.00	0.00
6,100.0	8.69	347.37	6,049.9	658.0	-147.5	-82.1	0.00	0.00	0.00
6,200.0	8.69	347.37	6,148.7	672.7	-150.8	-84.0	0.00	0.00	0.00
6,300.0	8.69	347.37	6,247.6	687.5	-154.1	-85.8	0.00	0.00	0.00
6,400.0	8.69	347.37	6,346.4	702.2	-157.4	-87.6	0.00	0.00	0.00
6,500.0	8.69	347.37	6,445.3	717.0	-160.7	-89.5	0.00	0.00	0.00
6,600.0	8.69	347.37	6,544.1	731.7	-164.0	-91.3	0.00	0.00	0.00
6,700.0	8.69	347.37	6,643.0	746.5	-167.3	-93.2	0.00	0.00	0.00
6,800.0	8.69	347.37	6,741.8	761.2	-170.6	-95.0	0.00	0.00	0.00
6,900.0	8.69	347.37	6,840.7	776.0	-173.9	-96.8	0.00	0.00	0.00
7,000.0	8.69	347.37	6,939.5	790.7	-177.2	-98.7	0.00	0.00	0.00
7,100.0	8.69	347.37	7,038.4	805.5	-180.5	-100.5	0.00	0.00	0.00
7,200.0	8.69	347.37	7,137.2	820.2	-183.8	-102.4	0.00	0.00	0.00
7,300.0	8.69	347.37	7,236.1	835.0	-187.1	-104.2	0.00	0.00	0.00
7,400.0	8.69	347.37	7,334.9	849.7	-190.4	-106.0	0.00	0.00	0.00
7,500.0	8.69	347.37	7,433.8	864.5	-193.7	-107.9	0.00	0.00	0.00
7,600.0	8.69	347.37	7,532.6	879.2	-197.0	-109.7	0.00	0.00	0.00
7,700.0	8.69	347.37	7,631.5	894.0	-200.4	-111.6	0.00	0.00	0.00
7,800.0	8.69	347.37	7,730.3	908.7	-203.7	-113.4	0.00	0.00	0.00
7,900.0	8.69	347.37	7,829.2	923.5	-207.0	-115.3	0.00	0.00	0.00
8,000.0	8.69	347.37	7,928.0	938.2	-210.3	-117.1	0.00	0.00	0.00
8,094.7	8.69	347.37	8,021.6	952.2	-213.4	-118.8	0.00	0.00	0.00
8,100.0	8.61	347.37	8,026.9	953.0	-213.6	-118.9	1.50	-1.50	0.00
8,200.0	7.11	347.37	8,125.9	966.3	-216.6	-120.6	1.50	-1.50	0.00
8,300.0	5.61	347.37	8,225.3	977.1	-219.0	-121.9	1.50	-1.50	0.00
8,400.0	4.11	347.37	8,325.0	985.4	-220.8	-123.0	1.50	-1.50	0.00
8,500.0	2.61	347.37	8,424.8	991.1	-222.1	-123.7	1.50	-1.50	0.00
8,600.0	1.11	347.37	8,524.7	994.3	-222.8	-124.1	1.50	-1.50	0.00
8,674.3	0.00	0.00	8,599.0	995.0	-223.0	-124.2	1.50	-1.50	0.00
KOP: 2200' FNL & 10' FWL (Sec 17)									
8,700.0	3.08	89.91	8,624.7	995.0	-222.3	-123.5	11.99	11.99	0.00
8,800.0	15.07	89.91	8,723.3	995.0	-206.6	-107.8	11.99	11.99	0.00
8,900.0	27.05	89.91	8,816.4	995.1	-170.7	-72.1	11.99	11.99	0.00
9,000.0	39.04	89.91	8,900.1	995.2	-116.3	-17.9	11.99	11.99	0.00
9,100.0	51.03	89.91	8,970.6	995.3	-45.6	52.4	11.99	11.99	0.00
9,200.0	63.01	89.91	9,025.0	995.4	38.1	135.7	11.99	11.99	0.00
9,291.4	73.97	89.91	9,058.4	995.5	123.0	220.2	11.99	11.99	0.00
FTP: 2200' FNL & 100' FWL (Sec 17)									
9,300.0	75.00	89.91	9,060.7	995.5	131.3	228.5	11.99	11.99	0.00
9,400.0	86.99	89.91	9,076.4	995.7	229.9	326.6	11.99	11.99	0.00
9,421.5	89.56	89.91	9,077.0	995.7	251.4	348.0	11.97	11.97	0.00
LP: 2200' FNL & 481' FWL (Sec 17)									
9,500.0	89.56	89.91	9,077.6	995.8	329.9	426.1	0.00	0.00	0.00
9,600.0	89.56	89.91	9,078.4	996.0	429.9	525.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 B3EH Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3308.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3308.0usft (Original Well Elev)
Site:	Glock 17/16 B3EH Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FNL & 100' FEL, Sec 16		
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)
9,700.0	89.56	89.91	9,079.1	996.2	529.9	625.2	0.00	0.00	0.00
9,800.0	89.56	89.91	9,079.9	996.3	629.9	724.7	0.00	0.00	0.00
9,900.0	89.56	89.91	9,080.6	996.5	729.9	824.2	0.00	0.00	0.00
10,000.0	89.56	89.91	9,081.4	996.6	829.9	923.7	0.00	0.00	0.00
10,100.0	89.56	89.91	9,082.2	996.8	929.8	1,023.3	0.00	0.00	0.00
10,200.0	89.56	89.91	9,082.9	996.9	1,029.8	1,122.8	0.00	0.00	0.00
10,300.0	89.56	89.91	9,083.7	997.1	1,129.8	1,222.3	0.00	0.00	0.00
10,400.0	89.56	89.91	9,084.4	997.2	1,229.8	1,321.9	0.00	0.00	0.00
10,500.0	89.56	89.91	9,085.2	997.4	1,329.8	1,421.4	0.00	0.00	0.00
10,600.0	89.56	89.91	9,086.0	997.5	1,429.8	1,520.9	0.00	0.00	0.00
10,700.0	89.56	89.91	9,086.7	997.7	1,529.8	1,620.4	0.00	0.00	0.00
10,800.0	89.56	89.91	9,087.5	997.8	1,629.8	1,720.0	0.00	0.00	0.00
10,900.0	89.56	89.91	9,088.2	998.0	1,729.8	1,819.5	0.00	0.00	0.00
11,000.0	89.56	89.91	9,089.0	998.1	1,829.8	1,919.0	0.00	0.00	0.00
11,100.0	89.56	89.91	9,089.8	998.3	1,929.8	2,018.5	0.00	0.00	0.00
11,200.0	89.56	89.91	9,090.5	998.4	2,029.8	2,118.1	0.00	0.00	0.00
11,300.0	89.56	89.91	9,091.3	998.6	2,129.8	2,217.6	0.00	0.00	0.00
11,400.0	89.56	89.91	9,092.1	998.8	2,229.8	2,317.1	0.00	0.00	0.00
11,500.0	89.56	89.91	9,092.8	998.9	2,329.8	2,416.7	0.00	0.00	0.00
11,600.0	89.56	89.91	9,093.6	999.1	2,429.8	2,516.2	0.00	0.00	0.00
11,700.0	89.56	89.91	9,094.3	999.2	2,529.8	2,615.7	0.00	0.00	0.00
11,800.0	89.56	89.91	9,095.1	999.4	2,629.8	2,715.2	0.00	0.00	0.00
11,900.0	89.56	89.91	9,095.9	999.5	2,729.8	2,814.8	0.00	0.00	0.00
12,000.0	89.56	89.91	9,096.6	999.7	2,829.8	2,914.3	0.00	0.00	0.00
12,100.0	89.56	89.91	9,097.4	999.8	2,929.8	3,013.8	0.00	0.00	0.00
12,200.0	89.56	89.91	9,098.1	1,000.0	3,029.8	3,113.4	0.00	0.00	0.00
12,300.0	89.56	89.91	9,098.9	1,000.1	3,129.8	3,212.9	0.00	0.00	0.00
12,400.0	89.56	89.91	9,099.7	1,000.3	3,229.8	3,312.4	0.00	0.00	0.00
12,500.0	89.56	89.91	9,100.4	1,000.4	3,329.8	3,411.9	0.00	0.00	0.00
12,600.0	89.56	89.91	9,101.2	1,000.6	3,429.8	3,511.5	0.00	0.00	0.00
12,700.0	89.56	89.91	9,101.9	1,000.7	3,529.8	3,611.0	0.00	0.00	0.00
12,800.0	89.56	89.91	9,102.7	1,000.9	3,629.8	3,710.5	0.00	0.00	0.00
12,900.0	89.56	89.91	9,103.5	1,001.0	3,729.8	3,810.1	0.00	0.00	0.00
13,000.0	89.56	89.91	9,104.2	1,001.2	3,829.8	3,909.6	0.00	0.00	0.00
13,100.0	89.56	89.91	9,105.0	1,001.3	3,929.8	4,009.1	0.00	0.00	0.00
13,200.0	89.56	89.91	9,105.7	1,001.5	4,029.8	4,108.6	0.00	0.00	0.00
13,300.0	89.56	89.91	9,106.5	1,001.7	4,129.8	4,208.2	0.00	0.00	0.00
13,400.0	89.56	89.91	9,107.3	1,001.8	4,229.7	4,307.7	0.00	0.00	0.00
13,500.0	89.56	89.91	9,108.0	1,002.0	4,329.7	4,407.2	0.00	0.00	0.00
13,600.0	89.56	89.91	9,108.8	1,002.1	4,429.7	4,506.8	0.00	0.00	0.00
13,700.0	89.56	89.91	9,109.5	1,002.3	4,529.7	4,606.3	0.00	0.00	0.00
13,800.0	89.56	89.91	9,110.3	1,002.4	4,629.7	4,705.8	0.00	0.00	0.00
13,900.0	89.56	89.91	9,111.1	1,002.6	4,729.7	4,805.3	0.00	0.00	0.00
14,000.0	89.56	89.91	9,111.8	1,002.7	4,829.7	4,904.9	0.00	0.00	0.00
14,100.0	89.56	89.91	9,112.6	1,002.9	4,929.7	5,004.4	0.00	0.00	0.00
14,200.0	89.56	89.91	9,113.3	1,003.0	5,029.7	5,103.9	0.00	0.00	0.00
14,227.3	89.56	89.91	9,113.6	1,003.1	5,057.0	5,131.1	0.00	0.00	0.00
PPP2: 2200' FNL & 0' FWL (Sec 16)									
14,300.0	89.56	89.91	9,114.1	1,003.2	5,129.7	5,203.5	0.00	0.00	0.00
14,400.0	89.56	89.91	9,114.9	1,003.3	5,229.7	5,303.0	0.00	0.00	0.00
14,500.0	89.56	89.91	9,115.6	1,003.5	5,329.7	5,402.5	0.00	0.00	0.00
14,600.0	89.56	89.91	9,116.4	1,003.6	5,429.7	5,502.0	0.00	0.00	0.00
14,700.0	89.56	89.91	9,117.2	1,003.8	5,529.7	5,601.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 B3EH Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3308.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3308.0usft (Original Well Elev)
Site:	Glock 17/16 B3EH Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FNL & 100' FEL, Sec 16		
Design:	Design #1		

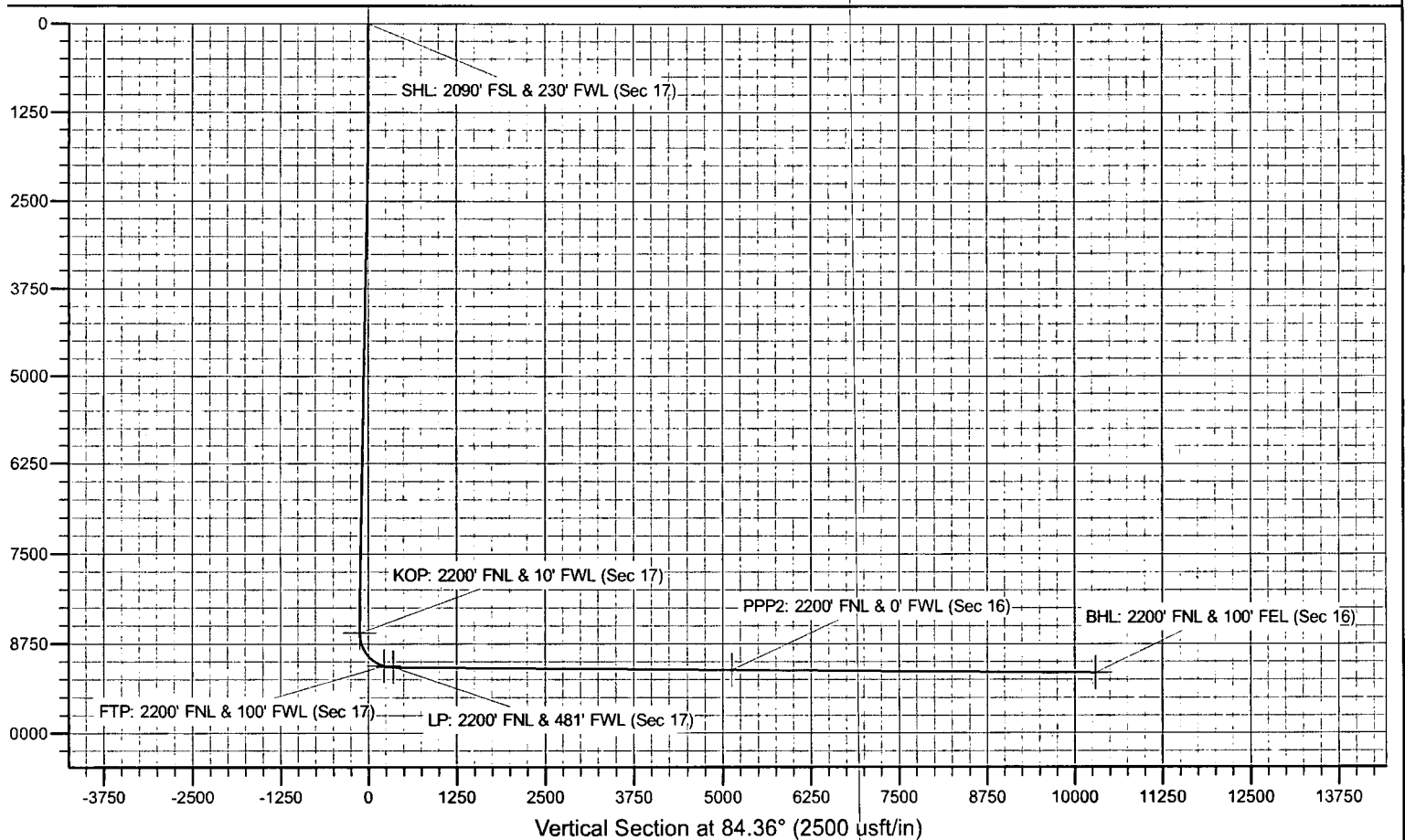
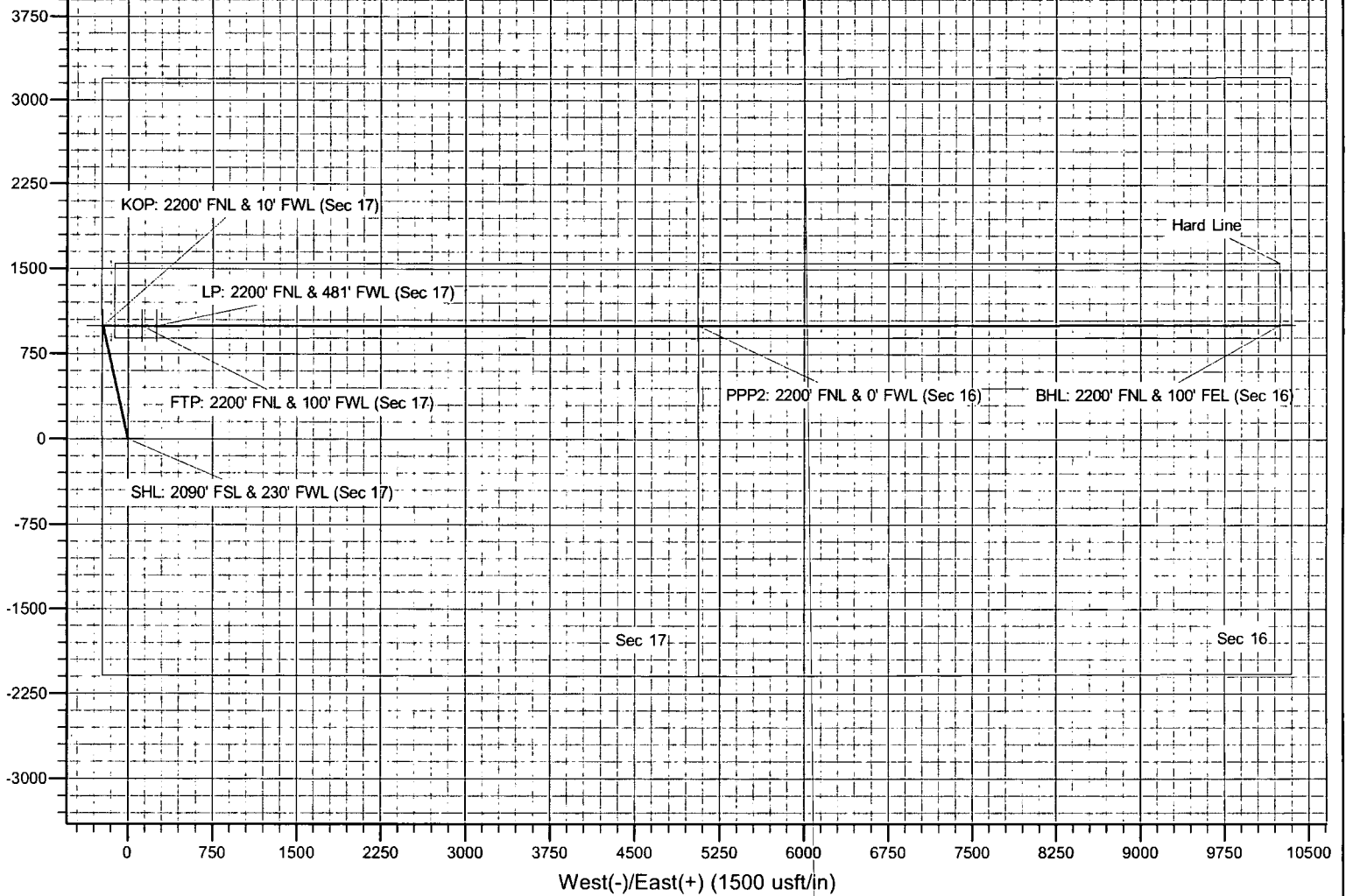
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.0	89.56	89.91	9,117.9	1,003.9	5,629.7	5,701.1	0.00	0.00	0.00
14,900.0	89.56	89.91	9,118.7	1,004.1	5,729.7	5,800.6	0.00	0.00	0.00
15,000.0	89.56	89.91	9,119.4	1,004.3	5,829.7	5,900.2	0.00	0.00	0.00
15,100.0	89.56	89.91	9,120.2	1,004.4	5,929.7	5,999.7	0.00	0.00	0.00
15,200.0	89.56	89.91	9,121.0	1,004.6	6,029.7	6,099.2	0.00	0.00	0.00
15,300.0	89.56	89.91	9,121.7	1,004.7	6,129.7	6,198.7	0.00	0.00	0.00
15,400.0	89.56	89.91	9,122.5	1,004.9	6,229.7	6,298.3	0.00	0.00	0.00
15,500.0	89.56	89.91	9,123.2	1,005.0	6,329.7	6,397.8	0.00	0.00	0.00
15,600.0	89.56	89.91	9,124.0	1,005.2	6,429.7	6,497.3	0.00	0.00	0.00
15,700.0	89.56	89.91	9,124.8	1,005.3	6,529.7	6,596.9	0.00	0.00	0.00
15,800.0	89.56	89.91	9,125.5	1,005.5	6,629.7	6,696.4	0.00	0.00	0.00
15,900.0	89.56	89.91	9,126.3	1,005.6	6,729.7	6,795.9	0.00	0.00	0.00
16,000.0	89.56	89.91	9,127.0	1,005.8	6,829.7	6,895.4	0.00	0.00	0.00
16,100.0	89.56	89.91	9,127.8	1,005.9	6,929.7	6,995.0	0.00	0.00	0.00
16,200.0	89.56	89.91	9,128.6	1,006.1	7,029.7	7,094.5	0.00	0.00	0.00
16,300.0	89.56	89.91	9,129.3	1,006.2	7,129.7	7,194.0	0.00	0.00	0.00
16,400.0	89.56	89.91	9,130.1	1,006.4	7,229.7	7,293.6	0.00	0.00	0.00
16,500.0	89.56	89.91	9,130.8	1,006.5	7,329.7	7,393.1	0.00	0.00	0.00
16,600.0	89.56	89.91	9,131.6	1,006.7	7,429.7	7,492.6	0.00	0.00	0.00
16,700.0	89.56	89.91	9,132.4	1,006.9	7,529.6	7,592.1	0.00	0.00	0.00
16,800.0	89.56	89.91	9,133.1	1,007.0	7,629.6	7,691.7	0.00	0.00	0.00
16,900.0	89.56	89.91	9,133.9	1,007.2	7,729.6	7,791.2	0.00	0.00	0.00
17,000.0	89.56	89.91	9,134.6	1,007.3	7,829.6	7,890.7	0.00	0.00	0.00
17,100.0	89.56	89.91	9,135.4	1,007.5	7,929.6	7,990.3	0.00	0.00	0.00
17,200.0	89.56	89.91	9,136.2	1,007.6	8,029.6	8,089.8	0.00	0.00	0.00
17,300.0	89.56	89.91	9,136.9	1,007.8	8,129.6	8,189.3	0.00	0.00	0.00
17,400.0	89.56	89.91	9,137.7	1,007.9	8,229.6	8,288.8	0.00	0.00	0.00
17,500.0	89.56	89.91	9,138.5	1,008.1	8,329.6	8,388.4	0.00	0.00	0.00
17,600.0	89.56	89.91	9,139.2	1,008.2	8,429.6	8,487.9	0.00	0.00	0.00
17,700.0	89.56	89.91	9,140.0	1,008.4	8,529.6	8,587.4	0.00	0.00	0.00
17,800.0	89.56	89.91	9,140.7	1,008.5	8,629.6	8,686.9	0.00	0.00	0.00
17,900.0	89.56	89.91	9,141.5	1,008.7	8,729.6	8,786.5	0.00	0.00	0.00
18,000.0	89.56	89.91	9,142.3	1,008.8	8,829.6	8,886.0	0.00	0.00	0.00
18,100.0	89.56	89.91	9,143.0	1,009.0	8,929.6	8,985.5	0.00	0.00	0.00
18,200.0	89.56	89.91	9,143.8	1,009.1	9,029.6	9,085.1	0.00	0.00	0.00
18,300.0	89.56	89.91	9,144.5	1,009.3	9,129.6	9,184.6	0.00	0.00	0.00
18,400.0	89.56	89.91	9,145.3	1,009.5	9,229.6	9,284.1	0.00	0.00	0.00
18,500.0	89.56	89.91	9,146.1	1,009.6	9,329.6	9,383.6	0.00	0.00	0.00
18,600.0	89.56	89.91	9,146.8	1,009.8	9,429.6	9,483.2	0.00	0.00	0.00
18,700.0	89.56	89.91	9,147.6	1,009.9	9,529.6	9,582.7	0.00	0.00	0.00
18,800.0	89.56	89.91	9,148.3	1,010.1	9,629.6	9,682.2	0.00	0.00	0.00
18,900.0	89.56	89.91	9,149.1	1,010.2	9,729.6	9,781.8	0.00	0.00	0.00
19,000.0	89.56	89.91	9,149.9	1,010.4	9,829.6	9,881.3	0.00	0.00	0.00
19,100.0	89.56	89.91	9,150.6	1,010.5	9,929.6	9,980.8	0.00	0.00	0.00
19,200.0	89.56	89.91	9,151.4	1,010.7	10,029.6	10,080.3	0.00	0.00	0.00
19,300.0	89.56	89.91	9,152.1	1,010.8	10,129.6	10,179.9	0.00	0.00	0.00
19,400.0	89.56	89.91	9,152.9	1,011.0	10,229.6	10,279.4	0.00	0.00	0.00
19,412.4	89.56	89.91	9,153.0	1,011.0	10,242.0	10,291.8	0.00	0.00	0.00
BHL: 2200' FNL & 100' FEL (Sec 16)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 B3EH Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3308.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3308.0usft (Original Well Elev)
Site:	Glock 17/16 B3EH Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FNL & 100' FEL, Sec 16		
Design:	Design #1		

Design Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
SHL: 2090' FSL & 230' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	571,894.00	611,663.00		32.5719843	-104.1050398
KOP: 2200' FNL & 10' F - plan hits target center - Point	0.00	0.00	8,599.0	995.0	-223.0	572,889.00	611,440.00		32.5747206	-104.1057568
FTP: 2200' FNL & 100' F - plan hits target center - Point	0.00	0.00	9,058.4	995.5	123.0	572,889.53	611,786.00		32.5747200	-104.1046336
LP: 2200' FNL & 481' FV - plan hits target center - Point	0.00	0.00	9,077.0	995.7	251.4	572,889.70	611,914.40		32.5747197	-104.1042167
PPP2: 2200' FNL & 0' F - plan hits target center - Point	0.00	0.00	9,113.6	1,003.1	5,057.0	572,897.08	616,720.00		32.5747106	-104.0886162
BHL: 2200' FNL & 100' F - plan hits target center - Point	0.00	0.00	9,153.0	1,011.0	10,242.0	572,905.00	621,905.00		32.5746985	-104.0717840

Glock 17/16 B3EH Fed Com #1H



Intent ☒ As Drilled ☐

API #

Operator Name: MEWBOURNE OIL COMPANY	Property Name: GLOCK 17/16 B3EH FED COM	Well Number 1H
---	--	-------------------

Kick Off Point (KOP)

UL E	Section 17	Township 20S	Range 29E	Lot	Feet 2200	From N/S N	Feet 10	From E/W W	County EDDY
Latitude 32.5747206					Longitude -104.1057568			NAD 83	

First Take Point (FTP)

UL E	Section 17	Township 20S	Range 29E	Lot	Feet 2200	From N/S N	Feet 100	From E/W W	County EDDY
Latitude 32.5722905					Longitude -104.1046336			NAD 83	

Last Take Point (LTP)

UL H	Section 16	Township 20S	Range 29E	Lot	Feet 2200	From N/S N	Feet 100	From E/W E	County EDDY
Latitude 32.5746985					Longitude -104.0717840			NAD 83	

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

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number
----------------	----------------	-------------

KZ 06/29/2018



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

SUPO Data Report

01/06/2020

APD ID: 10400047686

Submission Date: 09/26/2019

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH 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:

GLOCK17_16B3EHFEDCOM1H_existingroadmap_20190919111701.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:

GLOCK17_16B3EHFEDCOM1H_newroadmap_20190919140358.pdf

New road type: RESOURCE

Length: 40.68

Feet

Width (ft.): 30

Max slope (%): 3

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: None

New road access plan or profile prepared? N

New road access plan attachment:

Access road engineering design? N

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Turnout? N

Access surfacing type: OTHER

Access topsoil source: OFFSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth:

Offsite topsoil source description: Stored onsite, on edge of slope.

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

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

GLOCK17_16B3EHFEDCOM1H_existingwellmap_20190919111804.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: 1 3.5 buried steel flowline with a working pressure of 250#. 1 3.5 buried steel gas line for gas lift purposes with a working pressure of 250#. 1 1 buried gas supply line with a working pressure of 150#. These lines will be installed in one ditch following the attached route approximately 40.71' in length.

Production Facilities map:

GLOCK17_16B3EHFEDCOM1H_productionfacilitymap_20190919111824.pdf

GLOCK17_16B3EHFEDCOM1H_flowlinemap_20190919111832.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Water source type: IRRIGATION

Water source use type:

- STIMULATION
- SURFACE CASING
- DUST CONTROL
- INTERMEDIATE/PRODUCTION CASING

Source latitude: 32.430565

Source longitude: -103.66579

Source datum: NAD83

Water source permit type: WATER WELL

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 3510

Source volume (acre-feet): 0.45241478

Source volume (gal): 147420

Water source type: IRRIGATION

Water source use type:

- STIMULATION
- SURFACE CASING
- DUST CONTROL
- CAMP USE
- INTERMEDIATE/PRODUCTION CASING

Source latitude: 32.265114

Source longitude: -103.28177

Source datum: NAD83

Water source permit type: WATER WELL

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 3510

Source volume (acre-feet): 0.45241478

Source volume (gal): 147420

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Water source and transportation map:

GLOCK17_16B3EHFEDCOM1H_watersourceandtransmap_20190919111938.pdf

Water source comments: Both sources shown on one map

New water well? N

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:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche - both sources shown on one map

Construction Materials source location attachment:

GLOCK17_16B3EHFEDCOM1H_calichesourceandtransmap_20190919112000.pdf

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe 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: DRILLING

Waste content description: Drill cuttings

Amount of waste: 3510 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.

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

GLOCK17_16B3EHFEDCOM1H_wellsitelayout_20190919112015.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Glock 17/16 MP Fed Com wells

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Well pad proposed disturbance (acres): 3.8

Road proposed disturbance (acres): 0.03

Powerline proposed disturbance (acres): 0

Pipeline proposed disturbance (acres): 0

Other proposed disturbance (acres): 3.857

Total proposed disturbance:
7.686999999999999

Well pad interim reclamation (acres): 0.77

Road interim reclamation (acres): 0

Powerline interim reclamation (acres): 0

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 0.77

Well pad long term disturbance (acres): 3.03

Road long term disturbance (acres): 0

Powerline long term disturbance (acres): 0

Pipeline long term disturbance (acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 3.03

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

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

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

Soil treatment: NA

Existing Vegetation at the well pad: Various brush & grasses

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Various brush & grasses

Existing Vegetation Community at the road attachment:

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? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

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? N

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: NONE

Use a previously conducted onsite? Y

Previous Onsite information: SEP 10 2019 Met w/RRC Surveying & staked location @ 1990' FSL & 150' FWL, Sec 17, T20S, R29E, Eddy Co. NM. Location was unacceptable due to terrain. Re-stake location @ 2090' FSL & 230' FWL, Sec 17, T20S, R29E, Eddy Co. NM. (Elevation @ 3280'). Location will be 385' x 430'. Pit area to the E. Smaller pad due to Xcel electric line to E. No topsoil. Will use existing road in to the NE corner of pad. A 400 x 420 battery is staked offsite to the E. MOC electric to the W. Reclaim 60' N & W. Will need to move MOC SWD surface poly lines, the Glock 17 B2EH Fed #1H flow line, & a Select fresh water surface poly line on N side of the pad. Will need to move 2 MOC electric poles to the W. Location is in PA. Location will require BLM onsite. Lat.: 32.57198462, Long.: -104.10504044 NAD83

Other SUPO Attachment

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

GLOCK17_16B3EHFEDCOM1H_gascaptureplan_20190919135729.pdf

GLOCK17_16B3EHFEDCOM1H_interimreclamationdiagram_20190919135737.pdf

VICINITY MAP

NOT TO SCALE



*SECTION 17, TWP. 20 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY CO., NEW MEXICO*

OPERATOR: Mewbourne Oil Company
 LEASE: Glock 17/16 B3EH Fed Com
 WELL NO.: 1H

LOCATION: 2090' FSL & 230' FWL
 ELEVATION: 3280'

Copyright 2016 - All Rights Reserved

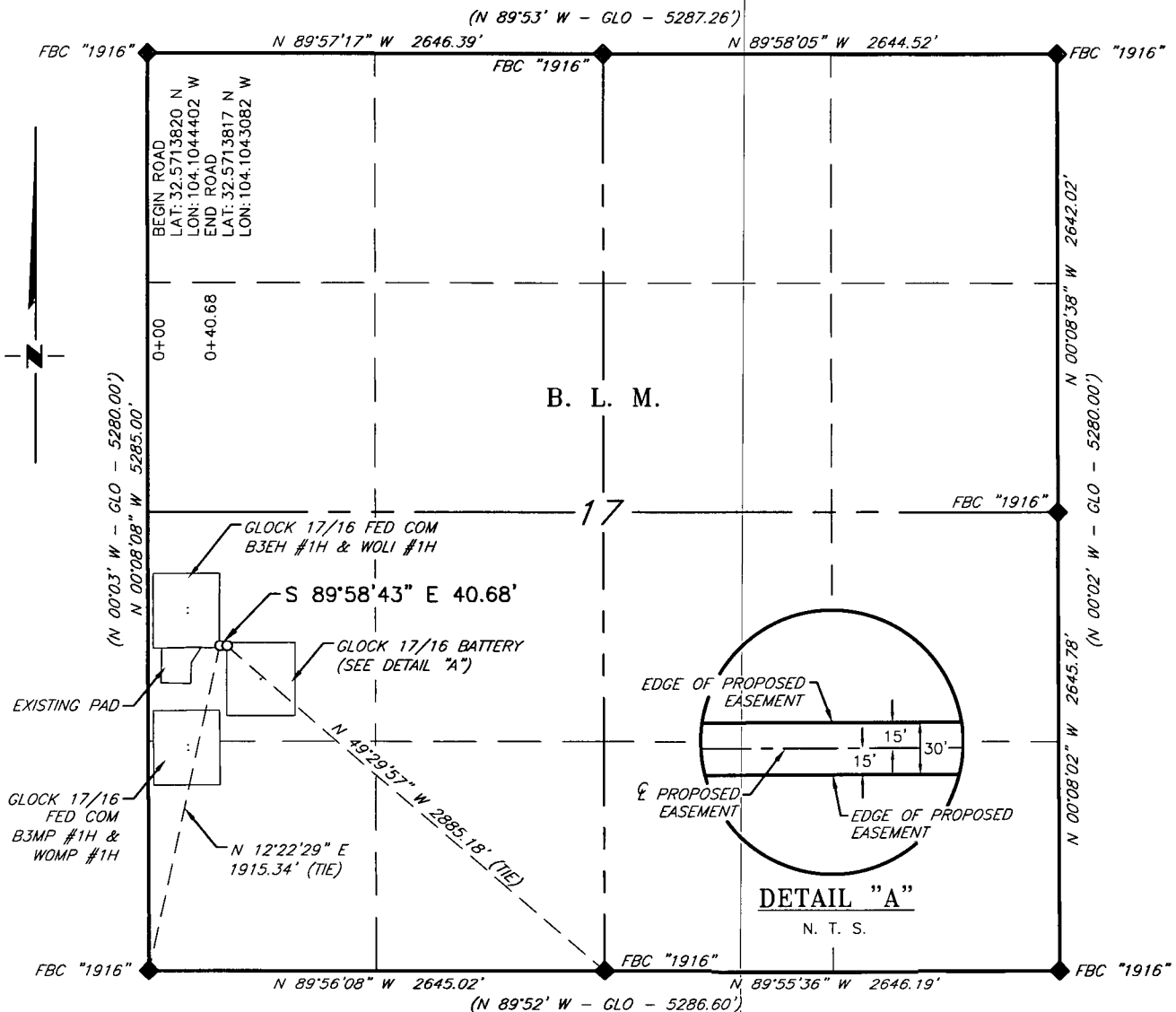
RRC

NO.	REVISION	DATE
JOB NO.: LS19090887		
DWG. NO.: 19090887-3		

701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 9-09-19
SURVEYED BY: ML/EF
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1

MEWBOURNE OIL COMPANY
PROPOSED NORTH ACCESS ROAD FOR THE GLOCK 17/16 BATTERY
SECTION 17, T20S, R29E,
N. M. P. M., EDDY CO., NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 40.68 feet or 2.465 rods in length, lying in Section 17, Township 20 South, Range 29 East, N. M. P. M., Eddy County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across the B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Southwest quarter of Section 17, which bears, N 12°22'29" E, 1,915.34 feet from a brass cap, stamped "1916", found for the Southwest corner of Section 17;

Thence S 89°58'43" E, 40.68 feet, to Engr. Sta. 0+40.68, the End of Survey, a point in the Southwest quarter of Section 17, which bears, N 49°29'57" W, 2,885.18 feet from a brass cap, stamped "1916", found for the South quarter corner of Section 17;

Said strip of land contains 0.028 acres, more or less and is allocated by forties as follows:

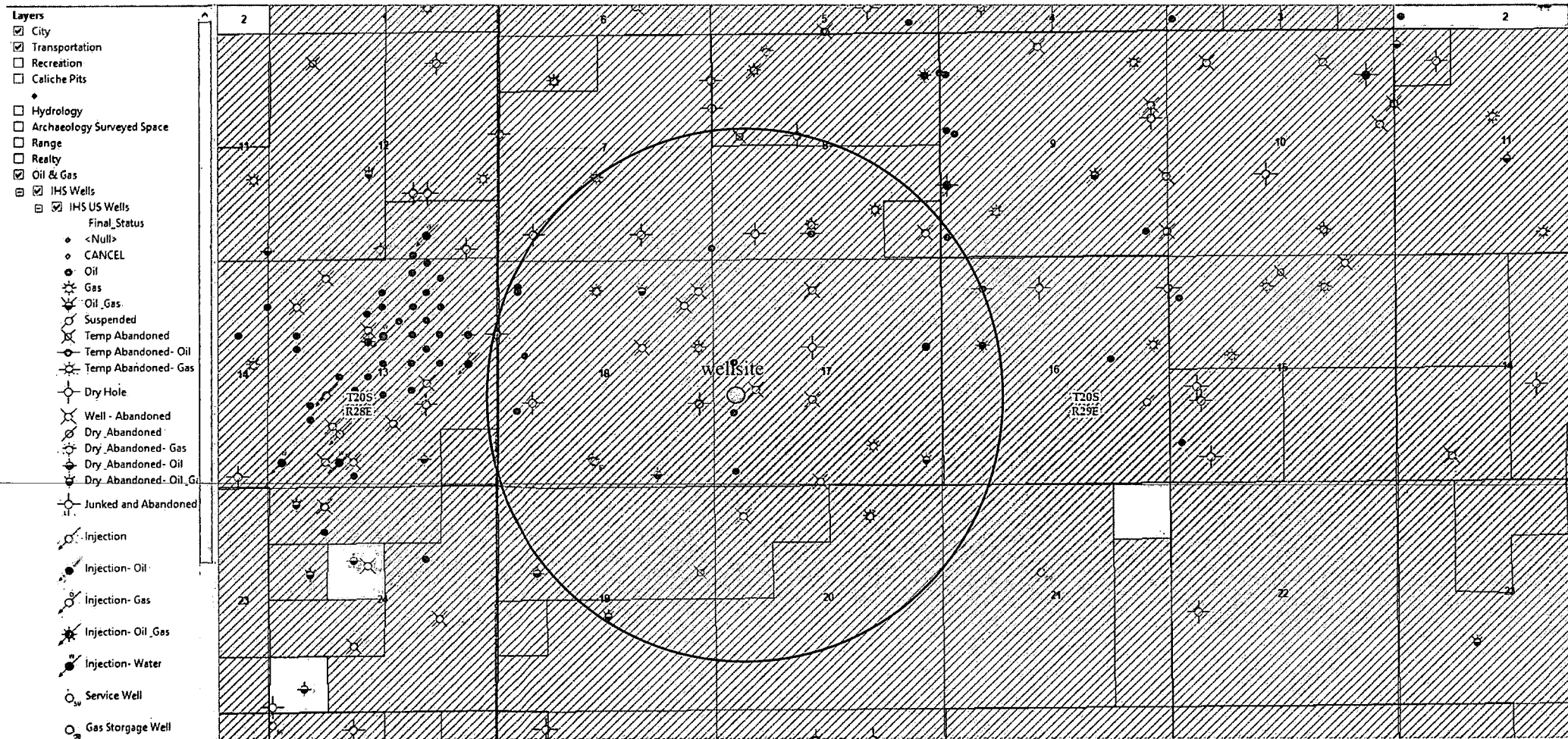
NW 1/4 SW 1/4	2.465 Rods	0.028 Acres
---------------	------------	-------------

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

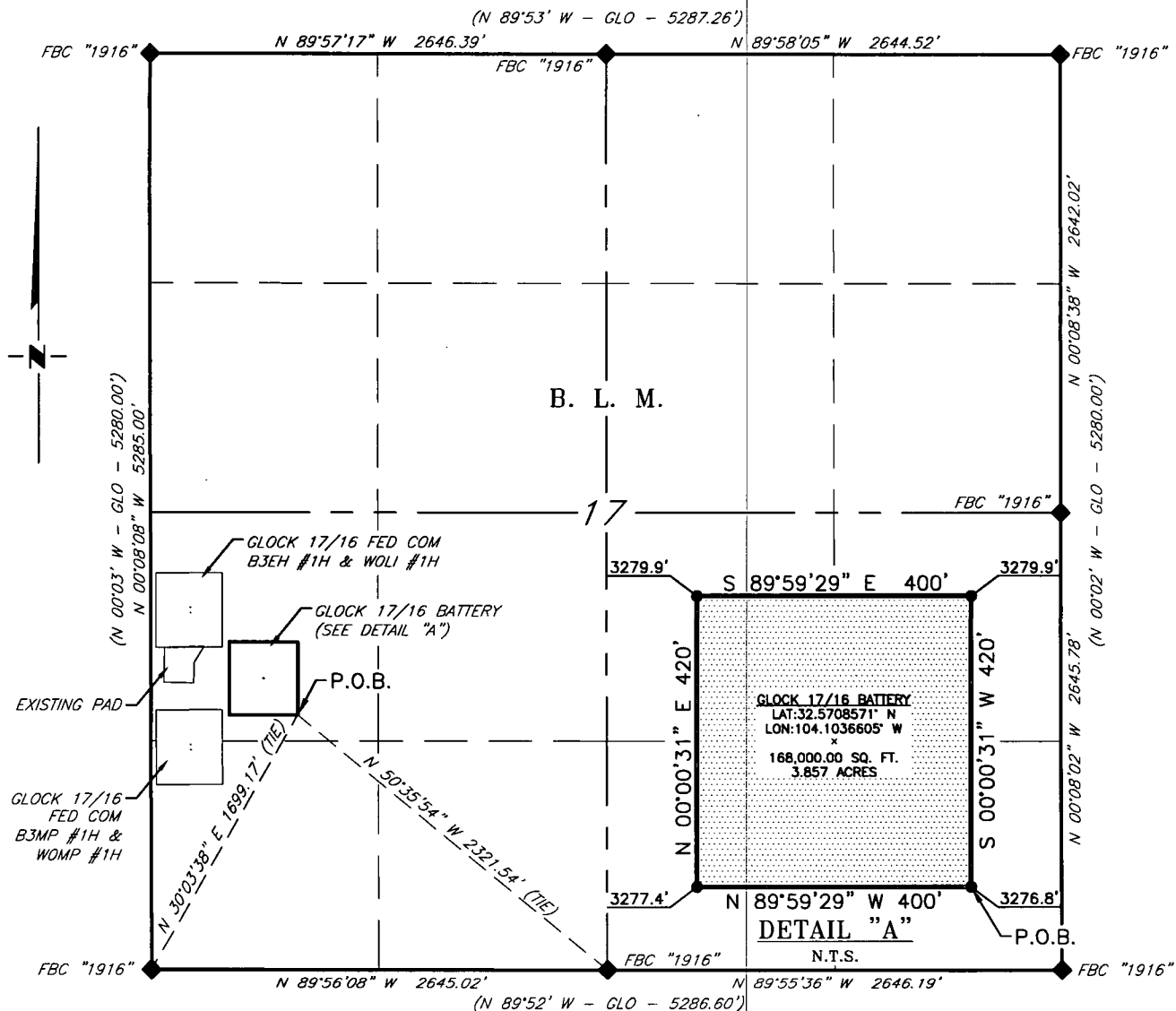
ERT M. HOW

GLOCK 17/16 B3EH FED COM #1H

EXISTING WELL MAP



MEWBOURNE OIL COMPANY
PROPOSED BATTERY FOR THE GLOCK 17/16 FED COM WELL LOCATIONS
SECTION 17, T20S, R29E,
N. M. P. M., EDDY CO., NEW MEXICO



DESCRIPTION

A tract of land situated within the Southwest quarter of Section 17, Township 20 South, Range 29 East, N. M. P. M. Eddy County, New Mexico, across B. L. M. land and being more particularly described by metes and bounds as follows:

BEGINNING at a point which bears, N 30°03'38" E, 1,699.17 feet from a brass cap, stamped "1916", found for the Southwest corner of Section 17 and being N 50°35'54" W, 2,321.54 feet from a brass cap, stamped "1916", found for the South quarter corner of Section 17;

Thence N 89°59'29" W, 400.00 feet, to a point;

Thence N 00°00'31" E, 420.00 feet, to a point;

Thence S 89°59'29" E, 400.00 feet, to a point;

Thence S 00°00'31" W, 420.00 feet, the Point of Beginning.

Said tract of land contains 168,000.00 square feet or 3.857 acres, more or less and is allocated by forties as follows:

NW 1/4 SW 1/4

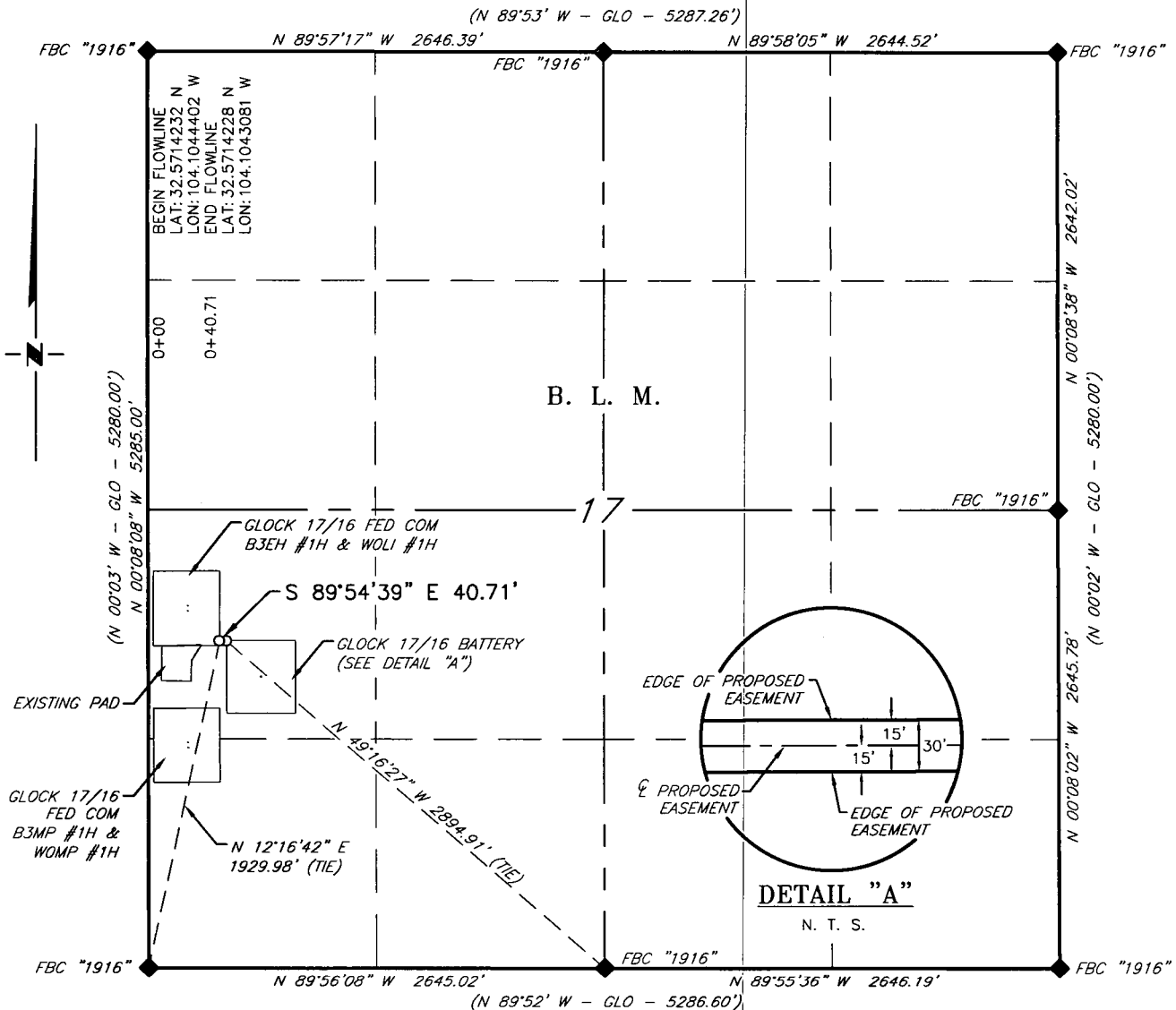
168,000.00 Sq. Ft.

3.857 Acres

SCALE: 1" = 1000'

ERT M. HOW

MEWBOURNE OIL COMPANY
PROPOSED NORTH FLOWLINE FOR THE GLOCK 17/16 BATTERY
SECTION 17, T20S, R29E,
N. M. P. M., EDDY CO., NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 40.71 feet or 2.467 rods in length, lying in Section 17, Township 20 South, Range 29 East, N. M. P. M., Eddy County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across the B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Southwest quarter of Section 17, which bears, N 12°16'42" E, 1,929.98 feet from a brass cap, stamped "1916", found for the Southwest corner of Section 17;

Thence S 89°54'39" E, 40.71 feet, to Engr. Sta. 0+40.71, the End of Survey, a point in the Southwest quarter of Section 17, which bears, N 49°16'27" W, 2,894.91 feet from a brass cap, stamped "1916", found for the South quarter corner of Section 17;

Said strip of land contains 0.028 acres, more or less and is allocated by forties as follows:

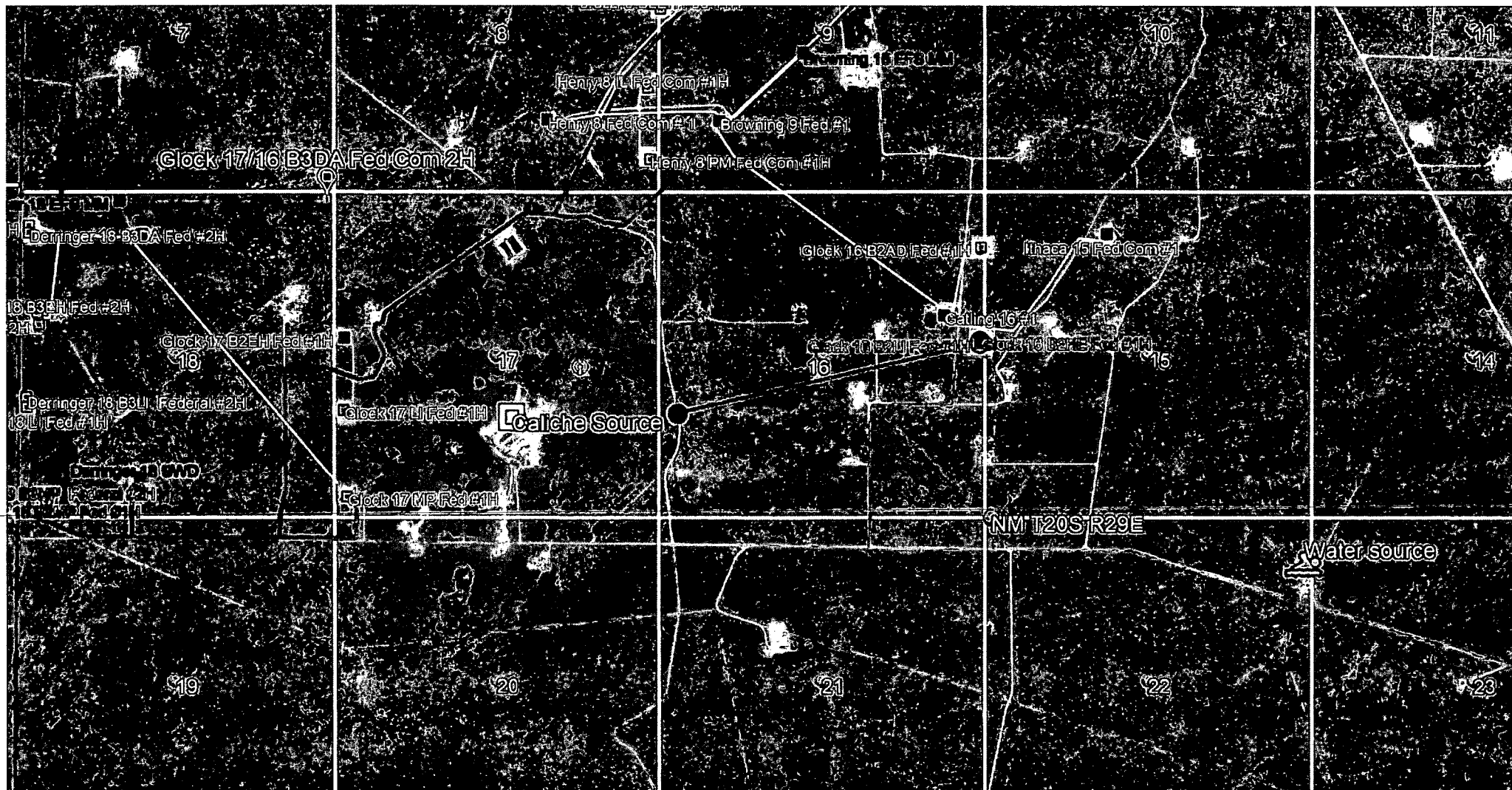
NW 1/4 SW 1/4

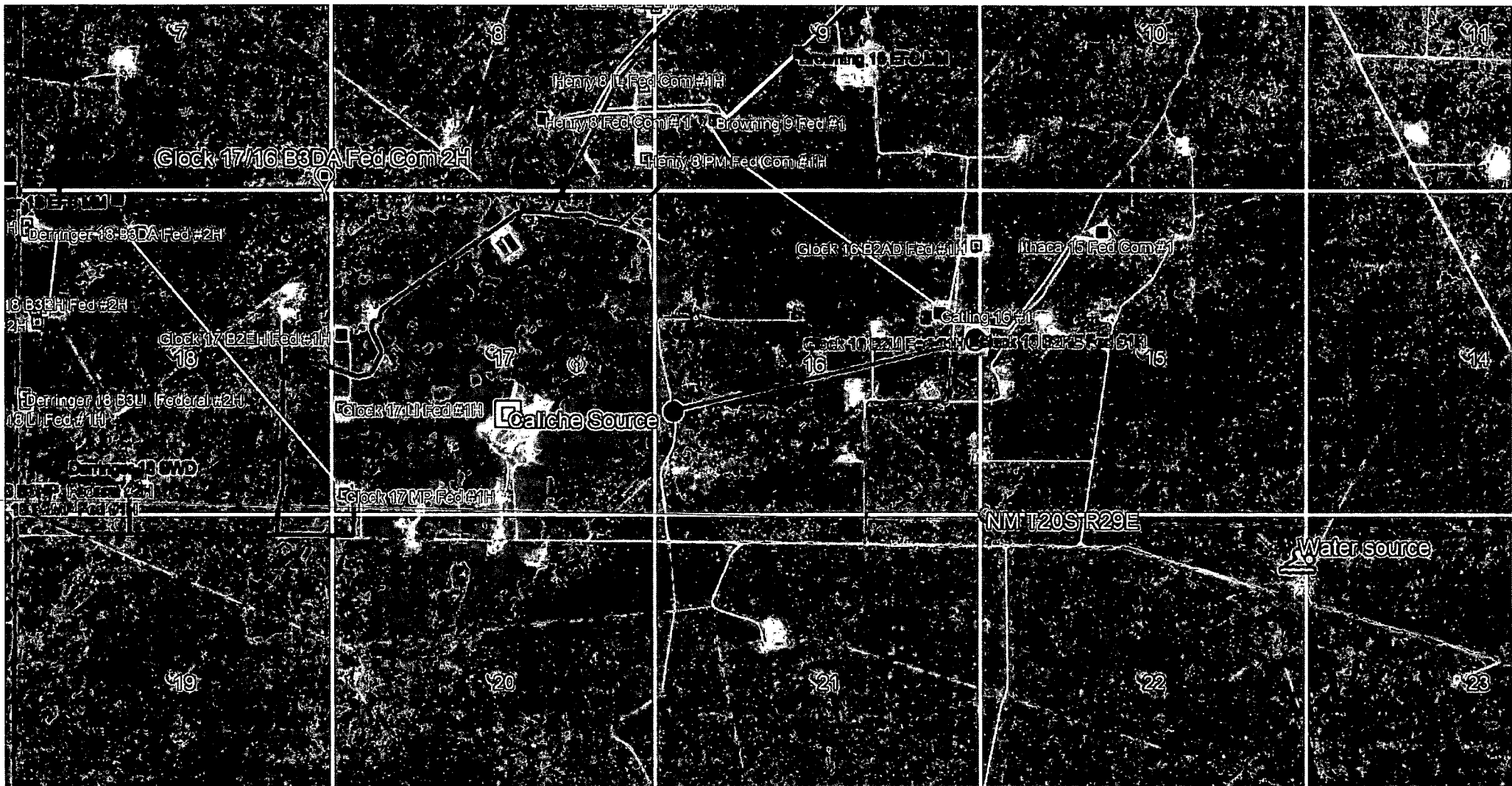
2.467 Rods

0.028 Acres

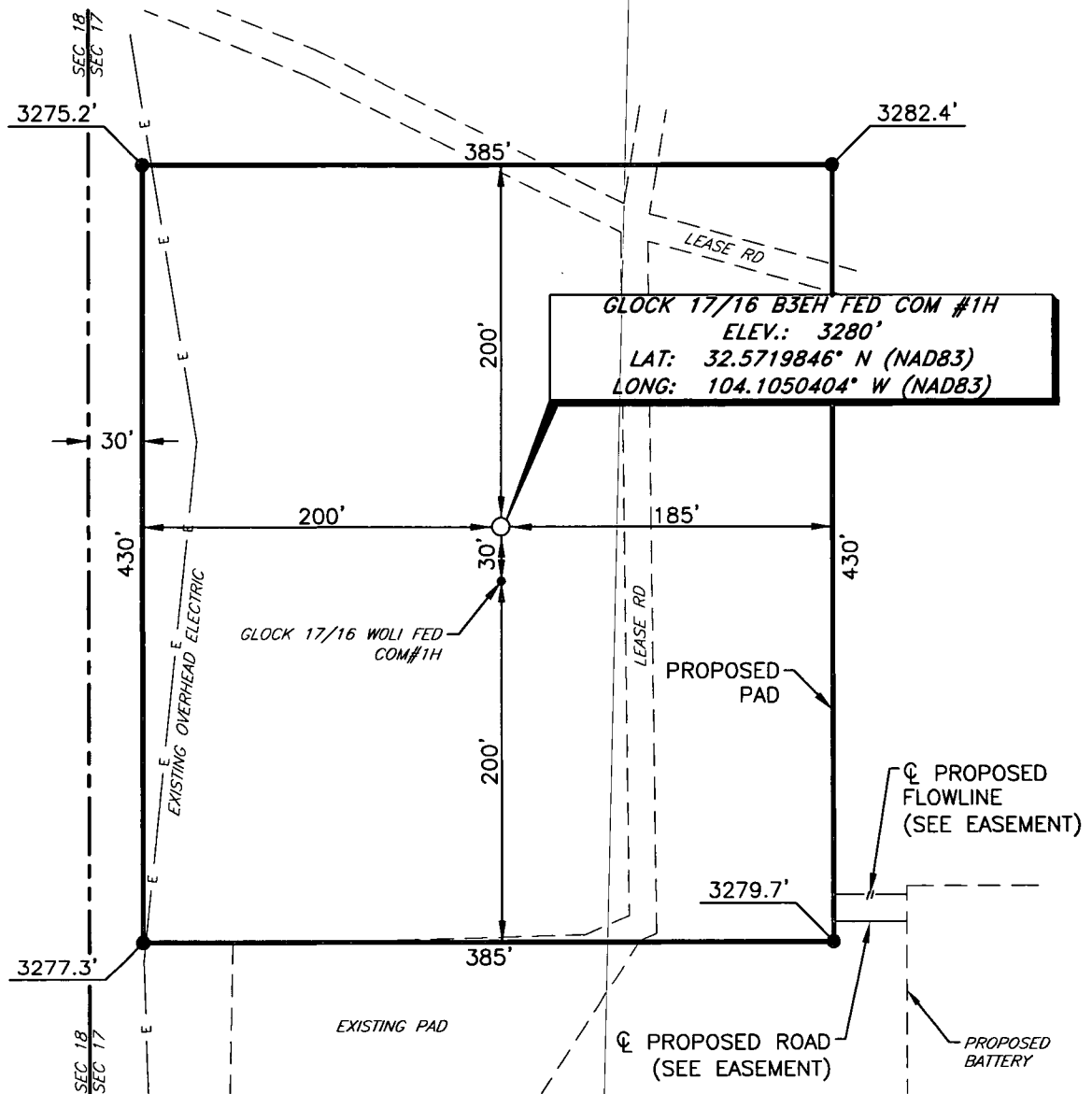
SCALE: 1" = 1000'
0 500' 1000'

BERT M. HOW





MEWBOURNE OIL COMPANY
GLOCK 17/16 B3EH FED COM #1H
(2090' FSL & 230' FWL)
SECTION 17, T20S, R29E
N. M. P. M., EDDY COUNTY, NEW MEXICO



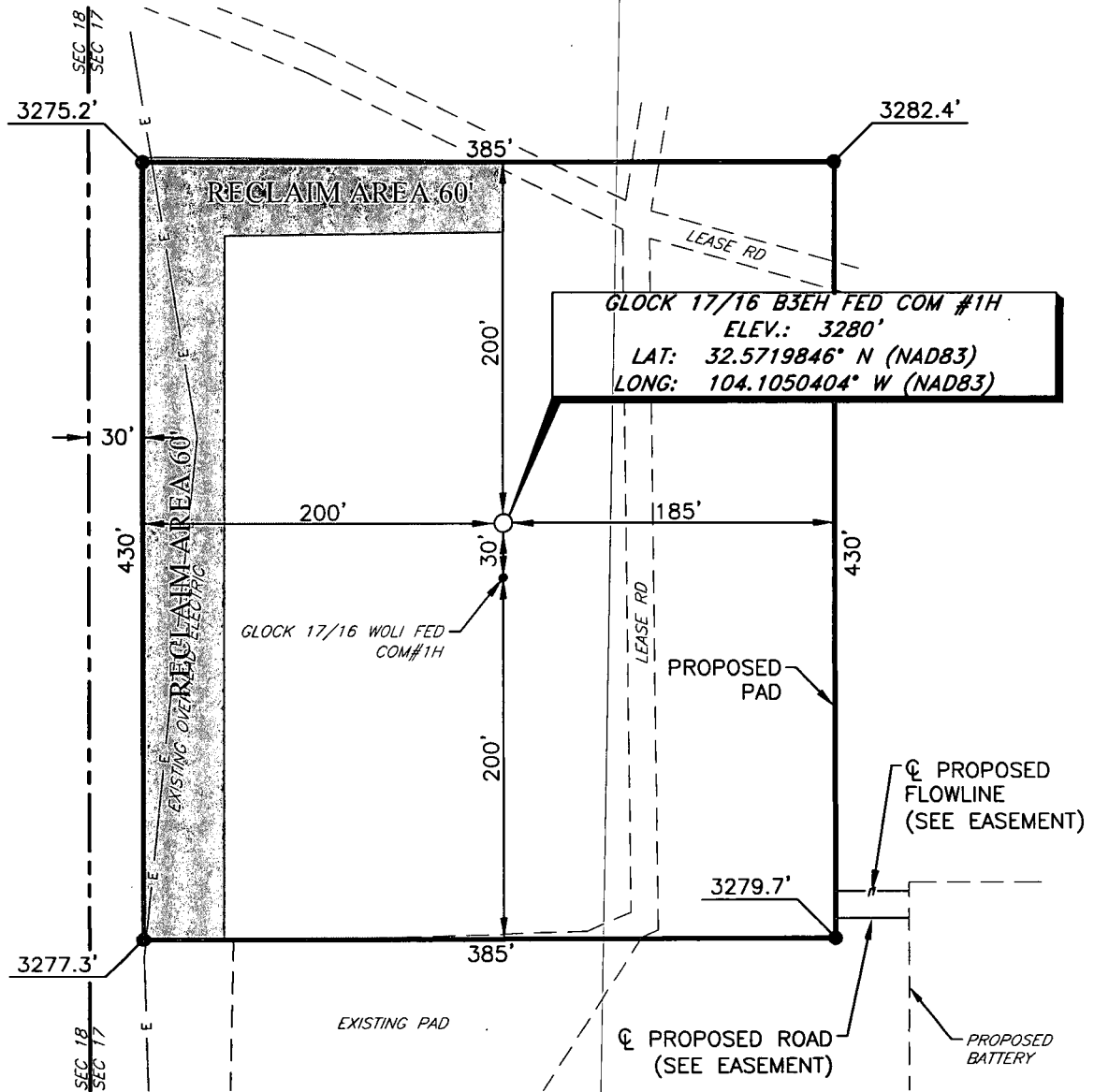
DIRECTIONS TO LOCATION

From the intersection of CR-243 (Magnum Rd.) and CR-238 (Burton Flats Rd.).
Go Southeast on CR-238 approx. 0.2 miles road turns left;
Turn left and go East approx. 0.6 miles to a lease road on the left;
Turn left and go North approx. 0.5 miles to a lease road on the right;
Turn right and go East approx. 0.2 miles to location on the right.

THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA IS SHOWN FROM A PREVIOUS SURVEY REFERENCED HEREON.

ART M. HOL

MEWBOURNE OIL COMPANY
GLOCK 17/16 B3EH FED COM #1H
(2090' FSL & 230' FWL)
SECTION 17, T20S, R29E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR-243 (Magnum Rd.) and CR-238 (Burton Flats Rd.).
Go Southeast on CR-238 approx. 0.2 miles road turns left;
Turn left and go East approx. 0.6 miles to a lease road on the left;
Turn left and go North approx. 0.5 miles to a lease road on the right;
Turn right and go East approx. 0.2 miles to location on the right.

THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA IS SHOWN FROM A PREVIOUS SURVEY REFERENCED HEREON.

ART M. HOW



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

PWD Data Report

01/06/2020

APD ID: 10400047686

Submission Date: 09/26/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

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? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

01/06/2020

APD ID: 10400047686

Submission Date: 09/26/2019

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 B3EH FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: NM1693

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: