Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
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RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMLC0070397

6. If Indian, Allotee or Tribe Name:

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

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: HEREFORD 29/20 B2OB FED COM 1H (32695)

2. Name of Operator: MEWBOURNE OIL COMPANY (14744)

9. API Well No.: 30-025-46768

3a. Address: PO Box 5270 Hobbs NM 88240

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

10. Field and Pool, or Exploratory: PEARL SOUTH / BONE SPRING (55610)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SWSE / 205 FSL / 1330 FEL / LAT 32.6247222 / LONG -103.4751768

At proposed prod. zone: NWNE / 100 FNL / 1980 FEL / LAT 32.6530077 / LONG -103.4772878

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 29 / T19S / R35E / NMP

14. Distance in miles and direction from nearest town or post office*: 10 miles

12. County or Parish: LEA

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 210 feet

16. No of acres in lease: 80

17. Spacing Unit dedicated to this well: 640

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 330 feet

19. Proposed Depth: 10231 feet / 20690 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3744 feet

22. Approximate date work will start*: 04/01/2019

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

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	Bradley Bishop / Ph: (575)393-5905	02/15/2019

Title: Regulatory

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Christopher Walls / Ph: (575)234-2234	01/15/2020

Title	Office
Petroleum Engineer	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.

GCP Rec 01/16/2020

KZ 01/24/2020

EL

APPROVED WITH CONDITIONS

Approval Date: 01/15/2020

(Continued on page 2)

*(Instructions on page 2)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Mewbourne Oil Company**
LEASE NO.:	**NMLC0070397**
WELL NAME & NO.:	Hereford 29/20 B2OB Fed Com 1H
SURFACE HOLE FOOTAGE:	205'/S & 1330'/E
BOTTOM HOLE FOOTAGE	100'/N & 1980'/E
LOCATION:	Section 29, T.19 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. HYDROGEN SULFIDE

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

B. CASING

Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **1900** feet (a minimum of **25 feet (Lea 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 **9-5/8** inch intermediate casing shall be set at approximately **3450** feet.The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

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

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

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive

strength of 500 psi at the shoe, 2) until cement has been in place at least 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    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.

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Operator Certification Data Report

01/15/2020

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

NAME: Bradley Bishop **Signed on:** 02/15/2019

Title: Regulatory

Street Address:

City: **State:** **Zip:**

Phone: (575)393-5905

Email address: bbishop@mewbourne.com

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

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BUREAU OF LAND MANAGEMENT

Application Data Report

01/15/2020

APD ID: 10400038747 **Submission Date:** 02/15/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

[redacted]

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Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

APD ID: 10400038747 **Tie to previous NOS?** **Submission Date:** 02/15/2019

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: NMLC0070397 **Lease Acres:** 80

Surface access agreement in place? **Allotted?** **Reservation:**

Agreement in place? NO **Federal or Indian agreement:**

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO **APD Operator:** MEWBOURNE OIL COMPANY

Operator letter of designation:

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: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** PEARL SOUTH **Pool Name:** BONE SPRING

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

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

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

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** HEREFORD 29/20 PA & BO WELLS **Number:** 3

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: 10 Miles **Distance to nearest well:** 330 FT **Distance to lease line:** 210 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: HEREFORD29_20B2OBFEDCOM1H_wellplat_20190201134859.pdf

Well work start Date: 04/01/2019 **Duration:** 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:**

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	205	FSL	1330	FEL	19S	35E	29	SWSE	32.6247222	-103.4751768	LEA	NEW MEXI	NEW MEXI	S	STATE	3744	0	0	
KOP Leg #1	10	FSL	1980	FEL	19S	35E	29	SWSE	32.6241882	-103.4772881	LEA	NEW MEXI	NEW MEXI	S	STATE	-6150	9931	9894	

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB 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 #1-1	0	FNL	1980	FEL	19S	35E	20	SWSE	32.6387338	-103.4772873	LEA	NEW MEXI	NEW MEXI	F	NMLC0069704	-6560	15496	10304	
PPP Leg #1-2	1323	FSL	1980	FEL	19S	35E	20	NWSE	32.6423729	-103.4772871	LEA	NEW MEXI	NEW MEXI	F	NMNM129268	-6541	16820	10285	
PPP Leg #1-3	2652	FNL	1980	FEL	19S	35E	29	SWNE	32.6314473	-103.4772877	LEA	NEW MEXI	NEW MEXI	F	NMLC0070397	-6597	12845	10341	
PPP Leg #1-4	100	FSL	1980	FEL	19S	35E	29	SWSE	32.6530073	-103.4772906	LEA	NEW MEXI	NEW MEXI	S	STATE	-6435	10237	10179	
EXIT Leg #1	2646	FNL	1980	FEL	19S	35E	20	SWNE	32.6460093	-103.4772869	LEA	NEW MEXI	NEW MEXI	F	FEE	-6523	18143	10267	
BHL Leg #1	100	FNL	1980	FEL	19S	35E	20	NWNE	32.6530077	-103.4772878	LEA	NEW MEXI	NEW MEXI	F	FEE	-6487	20690	10231	

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

Drilling Plan Data Report

01/15/2020

APD ID: 10400038747

Submission Date: 02/15/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

[redacted]

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Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
389109	UNKNOWN	3812	27	27		NONE	N
389110	RUSTLER	1993	1819	1819	ANHYDRITE, DOLOMITE	USEABLE WATER	N
389111	TOP SALT	1710	2102	2102	SALT	NONE	N
389112	BASE OF SALT	584	3228	3228	SALT	NONE	N
389113	YATES	415	3397	3397	SANDSTONE	NATURAL GAS, OIL	N
389114	SEVEN RIVERS	-75	3887	3887	DOLOMITE	NATURAL GAS, OIL	N
389115	QUEEN	-795	4607	4607	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
389116	DELAWARE	-2040	5852	5852	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
389117	BONE SPRING	-3990	7802	7802	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
389118	BONE SPRING 1ST	-5538	9350	9350	SANDSTONE	NATURAL GAS, OIL	N
389119	BONE SPRING 2ND	-5860	9672	9672	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

ressure Rating (PSI): 5M **Rating Depth:** 20690

quipment: Annular Pipe Rams Blind Rams Other accessories to the BOP equipment will include a Kelly cock and floor afety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

equesting Variance? YES

ariance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors are ot required by manufacturer. A variance is requested to use a multi-bowl wellhead. See attached schematic.

esting Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure idicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the orking pressure listed in the table above. If the system is upgraded all the components installed will be functional and

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

f the hole. These checks will be noted on the daily tour sheets.

:hoke Diagram Attachment:

Hereford_29_20_B2OB_Fed_Com_1H_5M_BOPE_Choke_Diagram_20190214161120.pdf

Hereford_29_20_B2OB_Fed_Com_1H_Flex_Line_Specs_20190214161121.pdf

:OP Diagram Attachment:

Hereford_29_20_B2OB_Fed_Com_1H_5M_BOPE_Schematic_20190214161151.pdf

Hereford_29_20_B2OB_Fed_Com_1H_Multi_Bowl_WH_20190214161152.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	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1900	0	1900	3771		1900	J-55	54.5	ST&C	1.27	3.07	DRY	4.96	DRY	8.2
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3450	0	3450	3771		3450	J-55	36	LT&C	1.13	1.96	DRY	3.65	DRY	4.5
3	PRODUCTION	8.75	7.0	NEW	API	N	0	10688	0	10371	3771		10688	P-110	26	LT&C	1.45	1.93	DRY	2.33	DRY	2.9
4	LINER	6.125	4.5	NEW	API	N	9931	20690	9894	10371			10759	P-110	13.5	LT&C	1.98	2.3	DRY	2.33	DRY	2.91

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Hereford_29_20_B2OB_Fed_Com_1H_Csg_Assumptions_20190214163148.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Hereford_29_20_B2OB_Fed_Com_1H_Csg_Assumptions_20190214163217.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Hereford_29_20_B2OB_Fed_Com_1H_Csg_Assumptions_20190214163230.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Hereford_29_20_B2OB_Fed_Com_1H_Csg_Assumptions_20190214163239.pdf

Section 4 - Cement

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

String Type	Lead/Tail	Stage Tool	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1713	1125	2.12	12.5	2385	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		1713	1900	200	1.34	14.8	268	100	Class C	Retarder
NTERMEDIATE	Lead		0	2837	585	2.12	12.5	1240	25	Class C	Salt, Gel, Extender, LCM
NTERMEDIATE	Tail		2837	3450	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		3250	8189	440	2.12	12.5	933	25	Class H	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		8189	10688	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
.INER	Lead		9931	20690	435	2.97	11.2	1292	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Section 5 - Circulating Medium

lud System Type: Closed

Will an air or gas system be Used? NO

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

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

escribe what will be on location to control well or mitigate other conditions: Lost circulation material, sweeps, mud cavengers

escribe the mud monitoring system utilized: Pason/PVT/Visual Monitoring

Circulating Medium Table

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1900	SPUD MUD	8.6	8.8							
1900	3450	SALT SATURATED	10	10							
3450	10231	WATER-BASED MUD	8.6	9.5							
10231	10371	OIL-BASED MUD	8.6	10							

Section 6 - Test, Logging, Coring

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

Vill run GR/CNL from KOP (9931') to surface.

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

:NL,DS,GR,MWD,MUDLOG

:oring operation description for the well:

lone

Section 7 - Pressure

.nticipated Bottom Hole Pressure: 5393 **Anticipated Surface Pressure:** 3117.98

.nticipated Bottom Hole Temperature(F): 140

.nticipated abnormal pressures, temperatures, or potential geologic hazards? NO

lescribe:

:ontingency Plans geoharzards description:

:ontingency Plans geohazards attachment:

lydrogen Sulfide drilling operations plan required? YES

lydrogen sulfide drilling operations plan:

Hereford_29_20_B2OB_Fed_Com_1H_H2S_Plan_20190214165326.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

Section 8 - Other Information

roposed horizontal/directional/multi-lateral plan submission:

Hereford_29_20_B2OB_Fed_Com_1H_Dir_Plan_20190214165646.pdf

Hereford_29_20_B2OB_Fed_Com_1H_Dir_Plot_20190214165646.pdf

ther proposed operations facets description:

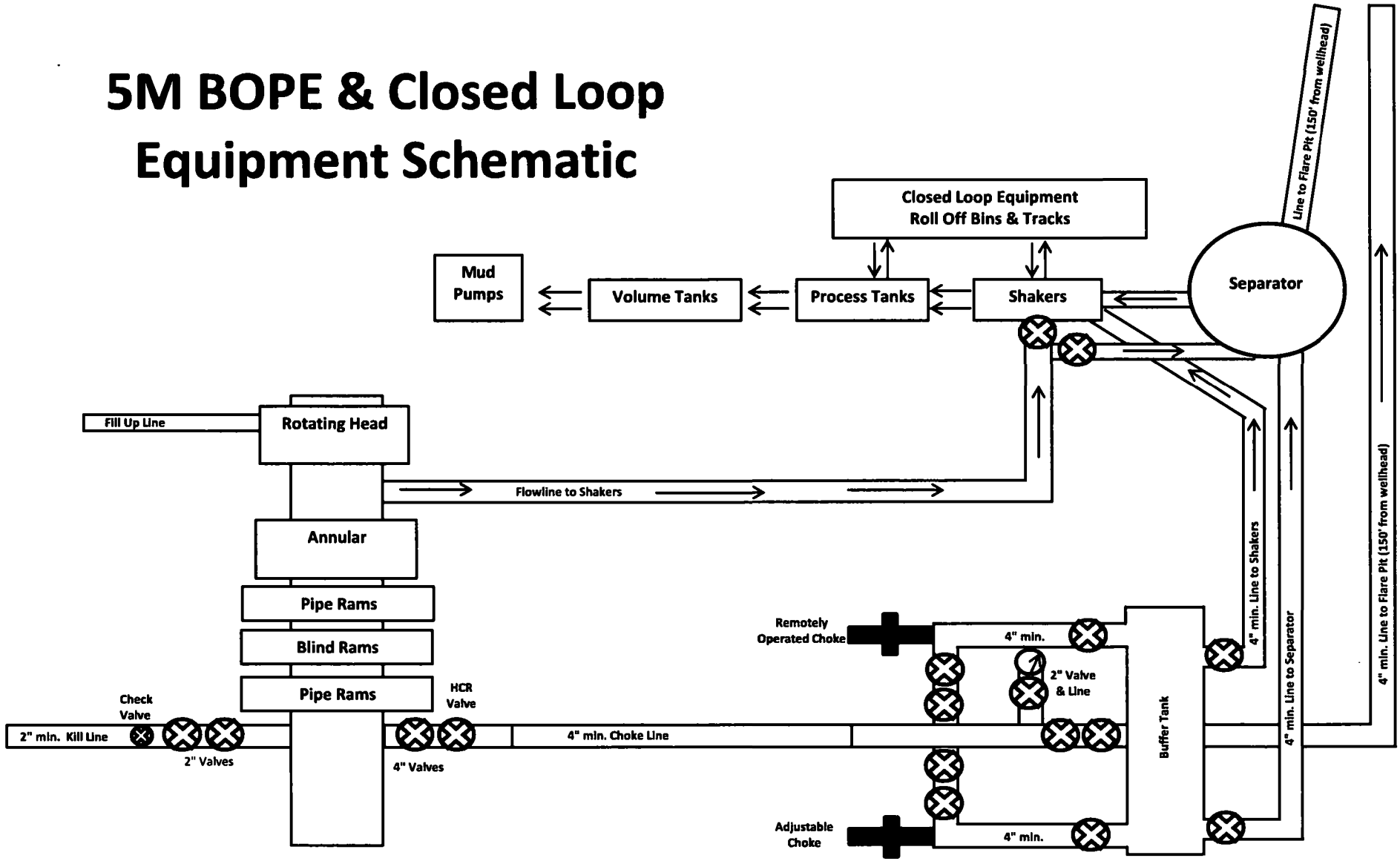
ther proposed operations facets attachment:

Hereford_29_20_B2OB_Fed_Com_1H_Add_Info_20190214165925.pdf

Hereford_29_20_B2OB_Fed_Com_1H_Drlg_Program_20190214165936.doc

ther Variance attachment:

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.

ENGINEERING & SERVICES

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

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

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	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

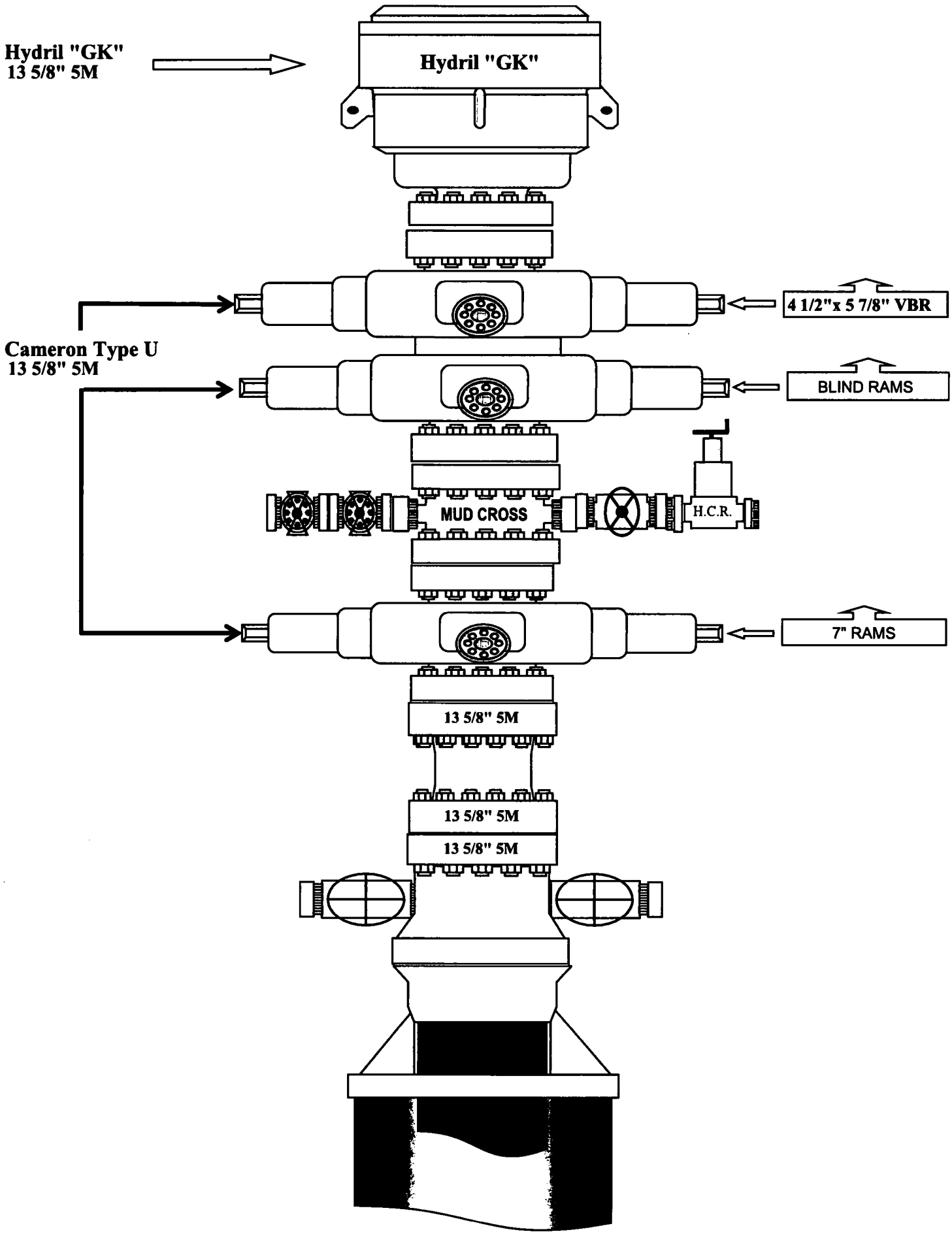
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

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	Produciton:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :		Signature :	

Form-PTC - 01 Rev.0 2

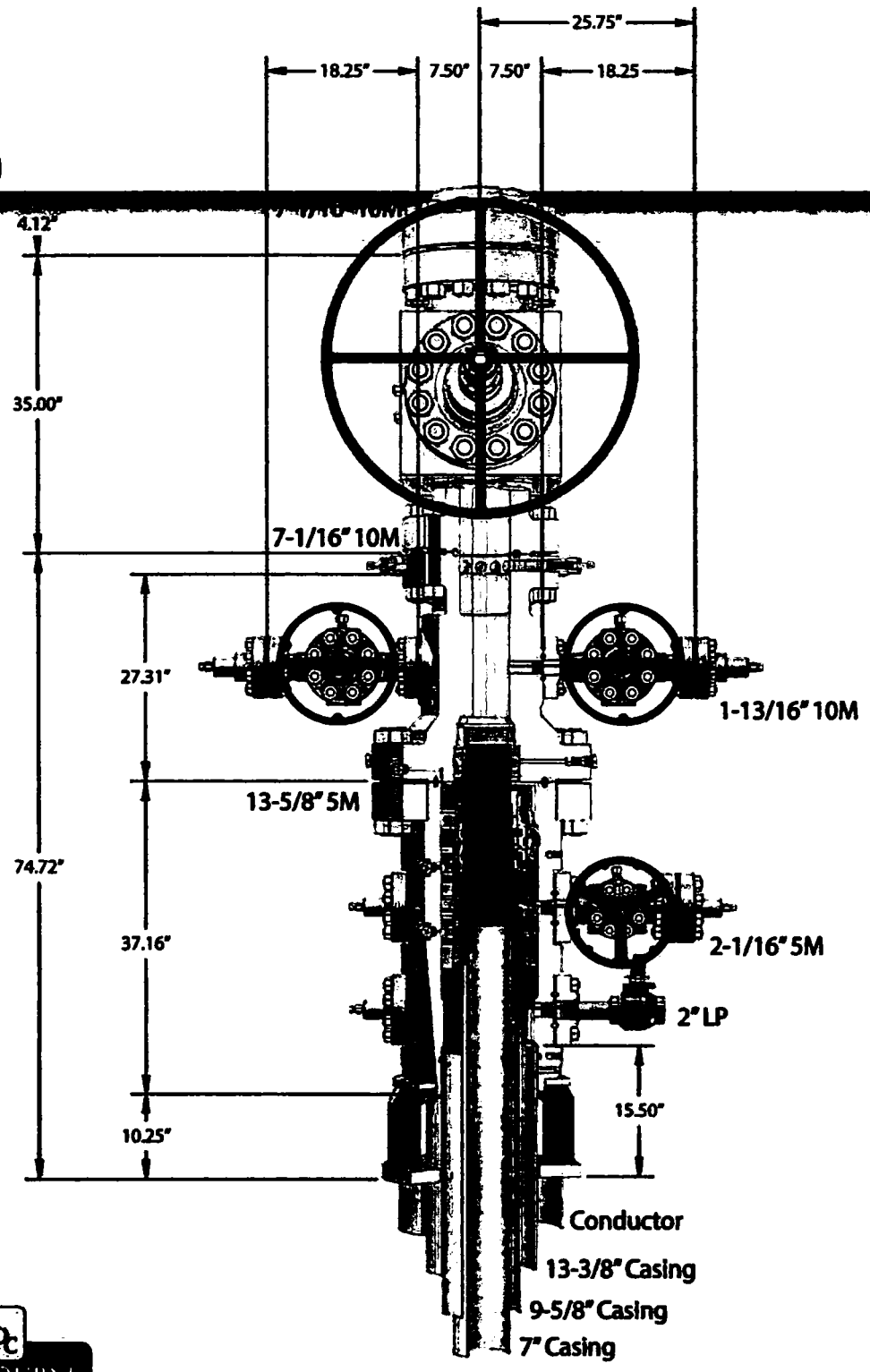
60 MIN.
5
10
15
20
25
30
35
18000
16000
14000
12000
10000
8000
6000
4000
2000
CHART POOL USA Inc.
PORTAGE, INDIANA
GATES ENGINEERING & SERVICES NA
QA100
APPROVED
TEST PRESSURE
GRADE
HOSE I.D.
LENGTH
WORKING PRESSURE
ASSEMBLY DATE
END
MW


Hydril "GK"
13 5/8" 5M
Hydril "GK"
4 1/2"x 5 7/8" VBR
Cameron Type U
13 5/8" 5M
BLIND RAMS
MUD CROSS
H.C.R.
7" RAMS
13 5/8" 5M
13 5/8" 5M
13 5/8" 5M

CAMERON

A Schlumberger Company

13-5/8" MN-DS Wellhead System



MEWBOURNE OIL COMPANY

C7585
Rev. 02

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

Cutting flange 57" conductor cut-off

79

Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	1900'	13.375"	54.5	J55	STC	1.27	3.07	4.96	8.24
12.25"	0'	3450'	9.625"	36	J55	LTC	1.13	1.96	3.65	4.54
8.75"	0'	10,688'	7"	26	HCP110	LTC	1.45	1.93	2.33	2.99
6.125"	9931'	20,690'	4.5"	13.5	P110	LTC	1.98	2.30	2.33	2.91
			BLM Minimum Safety Factor				1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd 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 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

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8.75"	0'	10,688'	7"	26	HCP110	LTC	1.45	1.93	2.33	2.99
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Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
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Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
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If yes, are there three strings cemented to surface?	

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

1. 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

Lea County, New Mexico NAD 83
Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SHL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

Plan: Design #1

Standard Planning Report

14 February, 2019

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hereford 29/20 B2OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Site:	Hereford 29/20 B2OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T19S, R35E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1980' FEL, Sec 20		
Design:	Design #1		

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

Site	Hereford 29/20 B2OB Fed Com #1H				
Site Position:		**Northing:**	592,072.00 usft	**Latitude:**	32.6247235
From:	Map	**Easting:**	805,541.00 usft	**Longitude:**	-103.4751750
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.46 °

Well	Sec 29, T19S, R35E					
Well Position	**+N/-S**	0.0 usft	**Northing:**	592,072.00 usft	**Latitude:**	32.6247235
	+E/-W	0.0 usft	**Easting:**	805,541.00 usft	**Longitude:**	-103.4751750
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,771.0 usft	**Ground Level:**	3,744.0 usft

Wellbore	BHL: 100' FNL & 1980' FEL, Sec 20			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	2/13/2019	6.62	60.37	48,096

Design	Design #1			
Audit Notes:				
Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	355.92

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,819.0	6.38	252.87	3,818.3	-5.2	-17.0	2.00	2.00	0.00	252.87	
9,611.8	6.38	252.87	9,575.2	-194.8	-632.0	0.00	0.00	0.00	0.00	
9,930.7	0.00	0.00	9,893.5	-200.0	-649.0	2.00	-2.00	0.00	180.00	KOP: 10' FSL & 1980'
10,687.5	90.80	359.54	10,371.0	284.2	-652.9	12.00	12.00	0.00	-0.46	
20,689.6	90.80	359.54	10,231.0	10,285.0	-733.0	0.00	0.00	0.00	0.00	BHL: 100' FNL & 198(

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hereford 29/20 B2OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Site:	Hereford 29/20 B2OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T19S, R35E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1980' FEL, Sec 20		
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: 205' FSL & 1330' FEL (29)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	2.00	252.87	3,600.0	-0.5	-1.7	-0.4	2.00	2.00	0.00
3,700.0	4.00	252.87	3,699.8	-2.1	-6.7	-1.6	2.00	2.00	0.00
3,800.0	6.00	252.87	3,799.5	-4.6	-15.0	-3.5	2.00	2.00	0.00
3,819.0	6.38	252.87	3,818.3	-5.2	-17.0	-4.0	2.00	2.00	0.00
3,900.0	6.38	252.87	3,898.8	-7.9	-25.6	-6.0	0.00	0.00	0.00
4,000.0	6.38	252.87	3,998.2	-11.1	-36.2	-8.5	0.00	0.00	0.00
4,100.0	6.38	252.87	4,097.6	-14.4	-46.8	-11.1	0.00	0.00	0.00
4,200.0	6.38	252.87	4,197.0	-17.7	-57.4	-13.6	0.00	0.00	0.00
4,300.0	6.38	252.87	4,296.4	-21.0	-68.0	-16.1	0.00	0.00	0.00
4,400.0	6.38	252.87	4,395.7	-24.2	-78.6	-18.6	0.00	0.00	0.00
4,500.0	6.38	252.87	4,495.1	-27.5	-89.3	-21.1	0.00	0.00	0.00
4,600.0	6.38	252.87	4,594.5	-30.8	-99.9	-23.6	0.00	0.00	0.00
4,700.0	6.38	252.87	4,693.9	-34.1	-110.5	-26.1	0.00	0.00	0.00
4,800.0	6.38	252.87	4,793.3	-37.3	-121.1	-28.6	0.00	0.00	0.00
4,900.0	6.38	252.87	4,892.6	-40.6	-131.7	-31.1	0.00	0.00	0.00
5,000.0	6.38	252.87	4,992.0	-43.9	-142.4	-33.6	0.00	0.00	0.00
5,100.0	6.38	252.87	5,091.4	-47.1	-153.0	-36.1	0.00	0.00	0.00

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hereford 29/20 B2OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Site:	Hereford 29/20 B2OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T19S, R35E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1980' FEL, Sec 20		
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)
5,200.0	6.38	252.87	5,190.8	-50.4	-163.6	-38.7	0.00	0.00	0.00
5,300.0	6.38	252.87	5,290.2	-53.7	-174.2	-41.2	0.00	0.00	0.00
5,400.0	6.38	252.87	5,389.6	-57.0	-184.8	-43.7	0.00	0.00	0.00
5,500.0	6.38	252.87	5,488.9	-60.2	-195.4	-46.2	0.00	0.00	0.00
5,600.0	6.38	252.87	5,588.3	-63.5	-206.1	-48.7	0.00	0.00	0.00
5,700.0	6.38	252.87	5,687.7	-66.8	-216.7	-51.2	0.00	0.00	0.00
5,800.0	6.38	252.87	5,787.1	-70.0	-227.3	-53.7	0.00	0.00	0.00
5,900.0	6.38	252.87	5,886.5	-73.3	-237.9	-56.2	0.00	0.00	0.00
6,000.0	6.38	252.87	5,985.8	-76.6	-248.5	-58.7	0.00	0.00	0.00
6,100.0	6.38	252.87	6,085.2	-79.9	-259.2	-61.2	0.00	0.00	0.00
6,200.0	6.38	252.87	6,184.6	-83.1	-269.8	-63.7	0.00	0.00	0.00
6,300.0	6.38	252.87	6,284.0	-86.4	-280.4	-66.3	0.00	0.00	0.00
6,400.0	6.38	252.87	6,383.4	-89.7	-291.0	-68.8	0.00	0.00	0.00
6,500.0	6.38	252.87	6,482.7	-93.0	-301.6	-71.3	0.00	0.00	0.00
6,600.0	6.38	252.87	6,582.1	-96.2	-312.3	-73.8	0.00	0.00	0.00
6,700.0	6.38	252.87	6,681.5	-99.5	-322.9	-76.3	0.00	0.00	0.00
6,800.0	6.38	252.87	6,780.9	-102.8	-333.5	-78.8	0.00	0.00	0.00
6,900.0	6.38	252.87	6,880.3	-106.0	-344.1	-81.3	0.00	0.00	0.00
7,000.0	6.38	252.87	6,979.6	-109.3	-354.7	-83.8	0.00	0.00	0.00
7,100.0	6.38	252.87	7,079.0	-112.6	-365.3	-86.3	0.00	0.00	0.00
7,200.0	6.38	252.87	7,178.4	-115.9	-376.0	-88.8	0.00	0.00	0.00
7,300.0	6.38	252.87	7,277.8	-119.1	-386.6	-91.3	0.00	0.00	0.00
7,400.0	6.38	252.87	7,377.2	-122.4	-397.2	-93.9	0.00	0.00	0.00
7,500.0	6.38	252.87	7,476.5	-125.7	-407.8	-96.4	0.00	0.00	0.00
7,600.0	6.38	252.87	7,575.9	-128.9	-418.4	-98.9	0.00	0.00	0.00
7,700.0	6.38	252.87	7,675.3	-132.2	-429.1	-101.4	0.00	0.00	0.00
7,800.0	6.38	252.87	7,774.7	-135.5	-439.7	-103.9	0.00	0.00	0.00
7,900.0	6.38	252.87	7,874.1	-138.8	-450.3	-106.4	0.00	0.00	0.00
8,000.0	6.38	252.87	7,973.5	-142.0	-460.9	-108.9	0.00	0.00	0.00
8,100.0	6.38	252.87	8,072.8	-145.3	-471.5	-111.4	0.00	0.00	0.00
8,200.0	6.38	252.87	8,172.2	-148.6	-482.1	-113.9	0.00	0.00	0.00
8,300.0	6.38	252.87	8,271.6	-151.9	-492.8	-116.4	0.00	0.00	0.00
8,400.0	6.38	252.87	8,371.0	-155.1	-503.4	-118.9	0.00	0.00	0.00
8,500.0	6.38	252.87	8,470.4	-158.4	-514.0	-121.5	0.00	0.00	0.00
8,600.0	6.38	252.87	8,569.7	-161.7	-524.6	-124.0	0.00	0.00	0.00
8,700.0	6.38	252.87	8,669.1	-164.9	-535.2	-126.5	0.00	0.00	0.00
8,800.0	6.38	252.87	8,768.5	-168.2	-545.9	-129.0	0.00	0.00	0.00
8,900.0	6.38	252.87	8,867.9	-171.5	-556.5	-131.5	0.00	0.00	0.00
9,000.0	6.38	252.87	8,967.3	-174.8	-567.1	-134.0	0.00	0.00	0.00
9,100.0	6.38	252.87	9,066.6	-178.0	-577.7	-136.5	0.00	0.00	0.00
9,200.0	6.38	252.87	9,166.0	-181.3	-588.3	-139.0	0.00	0.00	0.00
9,300.0	6.38	252.87	9,265.4	-184.6	-598.9	-141.5	0.00	0.00	0.00
9,400.0	6.38	252.87	9,364.8	-187.8	-609.6	-144.0	0.00	0.00	0.00
9,500.0	6.38	252.87	9,464.2	-191.1	-620.2	-146.5	0.00	0.00	0.00
9,600.0	6.38	252.87	9,563.5	-194.4	-630.8	-149.1	0.00	0.00	0.00
9,611.8	6.38	252.87	9,575.2	-194.8	-632.0	-149.4	0.00	0.00	0.00
9,700.0	4.61	252.87	9,663.1	-197.3	-640.1	-151.3	2.00	-2.00	0.00
9,800.0	2.61	252.87	9,762.9	-199.1	-646.2	-152.7	2.00	-2.00	0.00
9,900.0	0.61	252.87	9,862.8	-200.0	-648.8	-153.3	2.00	-2.00	0.00
9,930.7	0.00	0.00	9,893.5	-200.0	-649.0	-153.4	2.00	-2.00	0.00
KOP: 10' FSL & 1980' FEL (29)									
10,000.0	8.31	359.54	9,962.6	-195.0	-649.0	-148.4	12.00	12.00	0.00
10,100.0	20.31	359.54	10,059.3	-170.3	-649.2	-123.7	12.00	12.00	0.00

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hereford 29/20 B2OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Site:	Hereford 29/20 B2OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T19S, R35E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1980' FEL, Sec 20		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.0	32.31	359.54	10,148.8	-126.1	-649.6	-79.6	12.00	12.00	0.00
10,237.1	36.77	359.54	10,179.4	-105.0	-649.8	-58.6	12.00	12.00	0.00
FTP: 100' FSL & 1980' FEL (29)									
10,300.0	44.31	359.54	10,227.1	-64.2	-650.1	-17.8	12.00	12.00	0.00
10,400.0	56.31	359.54	10,290.8	12.6	-650.7	58.8	12.00	12.00	0.00
10,500.0	68.31	359.54	10,337.2	101.0	-651.4	147.0	12.00	12.00	0.00
10,600.0	80.31	359.54	10,364.2	197.1	-652.2	243.0	12.00	12.00	0.00
10,687.5	90.80	359.54	10,371.0	284.2	-652.9	329.9	12.00	12.00	0.00
LP: 489' FSL & 1980' FEL (29)									
10,700.0	90.80	359.54	10,370.8	296.7	-653.0	342.4	0.00	0.00	0.00
10,800.0	90.80	359.54	10,369.4	396.7	-653.8	442.2	0.00	0.00	0.00
10,900.0	90.80	359.54	10,368.0	496.7	-654.6	541.9	0.00	0.00	0.00
11,000.0	90.80	359.54	10,366.6	596.7	-655.4	641.7	0.00	0.00	0.00
11,100.0	90.80	359.54	10,365.2	696.6	-656.2	741.5	0.00	0.00	0.00
11,200.0	90.80	359.54	10,363.8	796.6	-657.0	841.3	0.00	0.00	0.00
11,300.0	90.80	359.54	10,362.4	896.6	-657.8	941.1	0.00	0.00	0.00
11,400.0	90.80	359.54	10,361.0	996.6	-658.6	1,040.9	0.00	0.00	0.00
11,500.0	90.80	359.54	10,359.6	1,096.6	-659.4	1,140.7	0.00	0.00	0.00
11,600.0	90.80	359.54	10,358.2	1,196.6	-660.2	1,240.5	0.00	0.00	0.00
11,700.0	90.80	359.54	10,356.8	1,296.6	-661.0	1,340.3	0.00	0.00	0.00
11,800.0	90.80	359.54	10,355.4	1,396.6	-661.8	1,440.1	0.00	0.00	0.00
11,900.0	90.80	359.54	10,354.0	1,496.5	-662.6	1,539.9	0.00	0.00	0.00
12,000.0	90.80	359.54	10,352.6	1,596.5	-663.4	1,639.6	0.00	0.00	0.00
12,100.0	90.80	359.54	10,351.2	1,696.5	-664.2	1,739.4	0.00	0.00	0.00
12,200.0	90.80	359.54	10,349.8	1,796.5	-665.0	1,839.2	0.00	0.00	0.00
12,300.0	90.80	359.54	10,348.4	1,896.5	-665.8	1,939.0	0.00	0.00	0.00
12,400.0	90.80	359.54	10,347.0	1,996.5	-666.6	2,038.8	0.00	0.00	0.00
12,500.0	90.80	359.54	10,345.6	2,096.5	-667.4	2,138.6	0.00	0.00	0.00
12,600.0	90.80	359.54	10,344.2	2,196.5	-668.2	2,238.4	0.00	0.00	0.00
12,700.0	90.80	359.54	10,342.8	2,296.4	-669.0	2,338.2	0.00	0.00	0.00
12,800.0	90.80	359.54	10,341.4	2,396.4	-669.8	2,438.0	0.00	0.00	0.00
12,844.6	90.80	359.54	10,340.8	2,441.0	-670.2	2,482.5	0.00	0.00	0.00
PPP2: 2562' FNL & 1980' FEL (29)									
12,900.0	90.80	359.54	10,340.0	2,496.4	-670.6	2,537.8	0.00	0.00	0.00
13,000.0	90.80	359.54	10,338.6	2,596.4	-671.4	2,637.6	0.00	0.00	0.00
13,100.0	90.80	359.54	10,337.2	2,696.4	-672.2	2,737.3	0.00	0.00	0.00
13,200.0	90.80	359.54	10,335.8	2,796.4	-673.0	2,837.1	0.00	0.00	0.00
13,300.0	90.80	359.54	10,334.4	2,896.4	-673.8	2,936.9	0.00	0.00	0.00
13,400.0	90.80	359.54	10,333.0	2,996.3	-674.6	3,036.7	0.00	0.00	0.00
13,500.0	90.80	359.54	10,331.6	3,096.3	-675.4	3,136.5	0.00	0.00	0.00
13,600.0	90.80	359.54	10,330.2	3,196.3	-676.2	3,236.3	0.00	0.00	0.00
13,700.0	90.80	359.54	10,328.8	3,296.3	-677.0	3,336.1	0.00	0.00	0.00
13,800.0	90.80	359.54	10,327.4	3,396.3	-677.8	3,435.9	0.00	0.00	0.00
13,900.0	90.80	359.54	10,326.0	3,496.3	-678.6	3,535.7	0.00	0.00	0.00
14,000.0	90.80	359.54	10,324.6	3,596.3	-679.4	3,635.5	0.00	0.00	0.00
14,100.0	90.80	359.54	10,323.2	3,696.3	-680.2	3,735.3	0.00	0.00	0.00
14,200.0	90.80	359.54	10,321.8	3,796.2	-681.0	3,835.1	0.00	0.00	0.00
14,300.0	90.80	359.54	10,320.4	3,896.2	-681.8	3,934.8	0.00	0.00	0.00
14,400.0	90.80	359.54	10,319.0	3,996.2	-682.6	4,034.6	0.00	0.00	0.00
14,500.0	90.80	359.54	10,317.6	4,096.2	-683.4	4,134.4	0.00	0.00	0.00
14,600.0	90.80	359.54	10,316.2	4,196.2	-684.2	4,234.2	0.00	0.00	0.00
14,700.0	90.80	359.54	10,314.8	4,296.2	-685.0	4,334.0	0.00	0.00	0.00
14,800.0	90.80	359.54	10,313.4	4,396.2	-685.8	4,433.8	0.00	0.00	0.00

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hereford 29/20 B2OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Site:	Hereford 29/20 B2OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T19S, R35E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1980' FEL, Sec 20		
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)
14,900.0	90.80	359.54	10,312.0	4,496.2	-686.6	4,533.6	0.00	0.00	0.00
15,000.0	90.80	359.54	10,310.6	4,596.1	-687.4	4,633.4	0.00	0.00	0.00
15,100.0	90.80	359.54	10,309.2	4,696.1	-688.2	4,733.2	0.00	0.00	0.00
15,200.0	90.80	359.54	10,307.8	4,796.1	-689.0	4,833.0	0.00	0.00	0.00
15,300.0	90.80	359.54	10,306.4	4,896.1	-689.8	4,932.8	0.00	0.00	0.00
15,400.0	90.80	359.54	10,305.0	4,996.1	-690.6	5,032.5	0.00	0.00	0.00
15,495.9	90.80	359.54	10,303.7	5,092.0	-691.4	5,128.3	0.00	0.00	0.00
PPP3: 0' FSL & 1980' FEL (20)									
15,500.0	90.80	359.54	10,303.6	5,096.1	-691.4	5,132.3	0.00	0.00	0.00
15,600.0	90.80	359.54	10,302.2	5,196.1	-692.2	5,232.1	0.00	0.00	0.00
15,700.0	90.80	359.54	10,300.8	5,296.0	-693.0	5,331.9	0.00	0.00	0.00
15,800.0	90.80	359.54	10,299.4	5,396.0	-693.8	5,431.7	0.00	0.00	0.00
15,900.0	90.80	359.54	10,298.0	5,496.0	-694.6	5,531.5	0.00	0.00	0.00
16,000.0	90.80	359.54	10,296.6	5,596.0	-695.4	5,631.3	0.00	0.00	0.00
16,100.0	90.80	359.54	10,295.2	5,696.0	-696.2	5,731.1	0.00	0.00	0.00
16,200.0	90.80	359.54	10,293.8	5,796.0	-697.0	5,830.9	0.00	0.00	0.00
16,300.0	90.80	359.54	10,292.4	5,896.0	-697.8	5,930.7	0.00	0.00	0.00
16,400.0	90.80	359.54	10,291.0	5,996.0	-698.6	6,030.5	0.00	0.00	0.00
16,500.0	90.80	359.54	10,289.6	6,095.9	-699.4	6,130.2	0.00	0.00	0.00
16,600.0	90.80	359.54	10,288.2	6,195.9	-700.2	6,230.0	0.00	0.00	0.00
16,700.0	90.80	359.54	10,286.8	6,295.9	-701.0	6,329.8	0.00	0.00	0.00
16,800.0	90.80	359.54	10,285.4	6,395.9	-701.8	6,429.6	0.00	0.00	0.00
16,820.1	90.80	359.54	10,285.2	6,416.0	-702.0	6,449.7	0.00	0.00	0.00
PPP4: 1323' FSL & 1980' FEL (20)									
16,900.0	90.80	359.54	10,284.0	6,495.9	-702.6	6,529.4	0.00	0.00	0.00
17,000.0	90.80	359.54	10,282.6	6,595.9	-703.4	6,629.2	0.00	0.00	0.00
17,100.0	90.80	359.54	10,281.2	6,695.9	-704.2	6,729.0	0.00	0.00	0.00
17,200.0	90.80	359.54	10,279.8	6,795.9	-705.0	6,828.8	0.00	0.00	0.00
17,300.0	90.80	359.54	10,278.4	6,895.8	-705.8	6,928.6	0.00	0.00	0.00
17,400.0	90.80	359.54	10,277.0	6,995.8	-706.6	7,028.4	0.00	0.00	0.00
17,500.0	90.80	359.54	10,275.6	7,095.8	-707.4	7,128.2	0.00	0.00	0.00
17,600.0	90.80	359.54	10,274.2	7,195.8	-708.3	7,227.9	0.00	0.00	0.00
17,700.0	90.80	359.54	10,272.8	7,295.8	-709.1	7,327.7	0.00	0.00	0.00
17,800.0	90.80	359.54	10,271.4	7,395.8	-709.9	7,427.5	0.00	0.00	0.00
17,900.0	90.80	359.54	10,270.0	7,495.8	-710.7	7,527.3	0.00	0.00	0.00
18,000.0	90.80	359.54	10,268.6	7,595.7	-711.5	7,627.1	0.00	0.00	0.00
18,100.0	90.80	359.54	10,267.2	7,695.7	-712.3	7,726.9	0.00	0.00	0.00
18,143.3	90.80	359.54	10,266.6	7,739.0	-712.6	7,770.1	0.00	0.00	0.00
PPP5: 2646' FNL & 1980' FEL (20)									
18,200.0	90.80	359.54	10,265.8	7,795.7	-713.1	7,826.7	0.00	0.00	0.00
18,300.0	90.80	359.54	10,264.4	7,895.7	-713.9	7,926.5	0.00	0.00	0.00
18,400.0	90.80	359.54	10,263.0	7,995.7	-714.7	8,026.3	0.00	0.00	0.00
18,500.0	90.80	359.54	10,261.6	8,095.7	-715.5	8,126.1	0.00	0.00	0.00
18,600.0	90.80	359.54	10,260.2	8,195.7	-716.3	8,225.9	0.00	0.00	0.00
18,700.0	90.80	359.54	10,258.8	8,295.7	-717.1	8,325.6	0.00	0.00	0.00
18,800.0	90.80	359.54	10,257.4	8,395.6	-717.9	8,425.4	0.00	0.00	0.00
18,900.0	90.80	359.54	10,256.0	8,495.6	-718.7	8,525.2	0.00	0.00	0.00
19,000.0	90.80	359.54	10,254.6	8,595.6	-719.5	8,625.0	0.00	0.00	0.00
19,100.0	90.80	359.54	10,253.2	8,695.6	-720.3	8,724.8	0.00	0.00	0.00
19,200.0	90.80	359.54	10,251.8	8,795.6	-721.1	8,824.6	0.00	0.00	0.00
19,300.0	90.80	359.54	10,250.5	8,895.6	-721.9	8,924.4	0.00	0.00	0.00
19,400.0	90.80	359.54	10,249.1	8,995.6	-722.7	9,024.2	0.00	0.00	0.00
19,500.0	90.80	359.54	10,247.7	9,095.6	-723.5	9,124.0	0.00	0.00	0.00

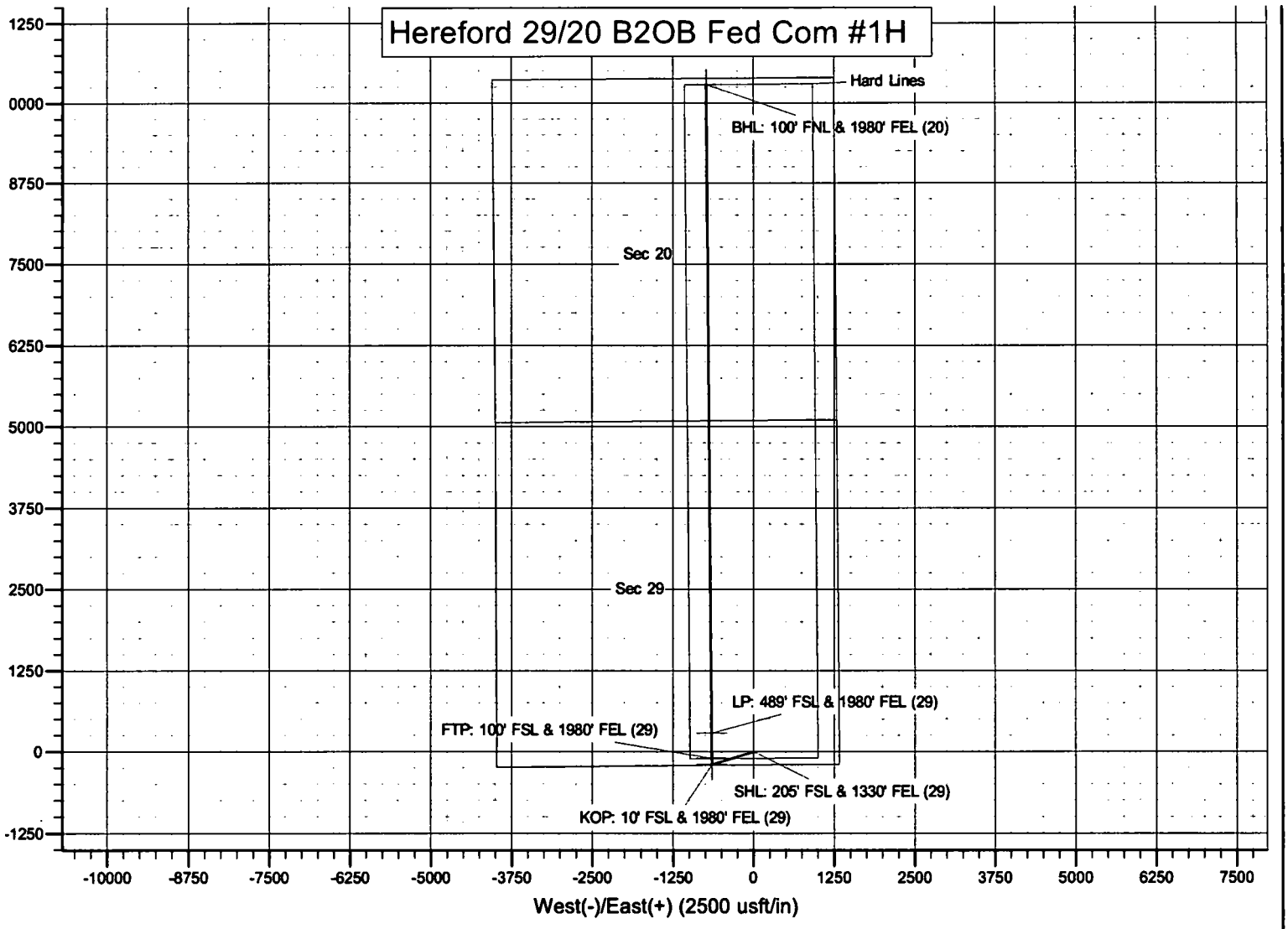
Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hereford 29/20 B2OB Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3771.0usft (Original Well Elev)
Site:	Hereford 29/20 B2OB Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T19S, R35E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1980' FEL, Sec 20		
Design:	Design #1		

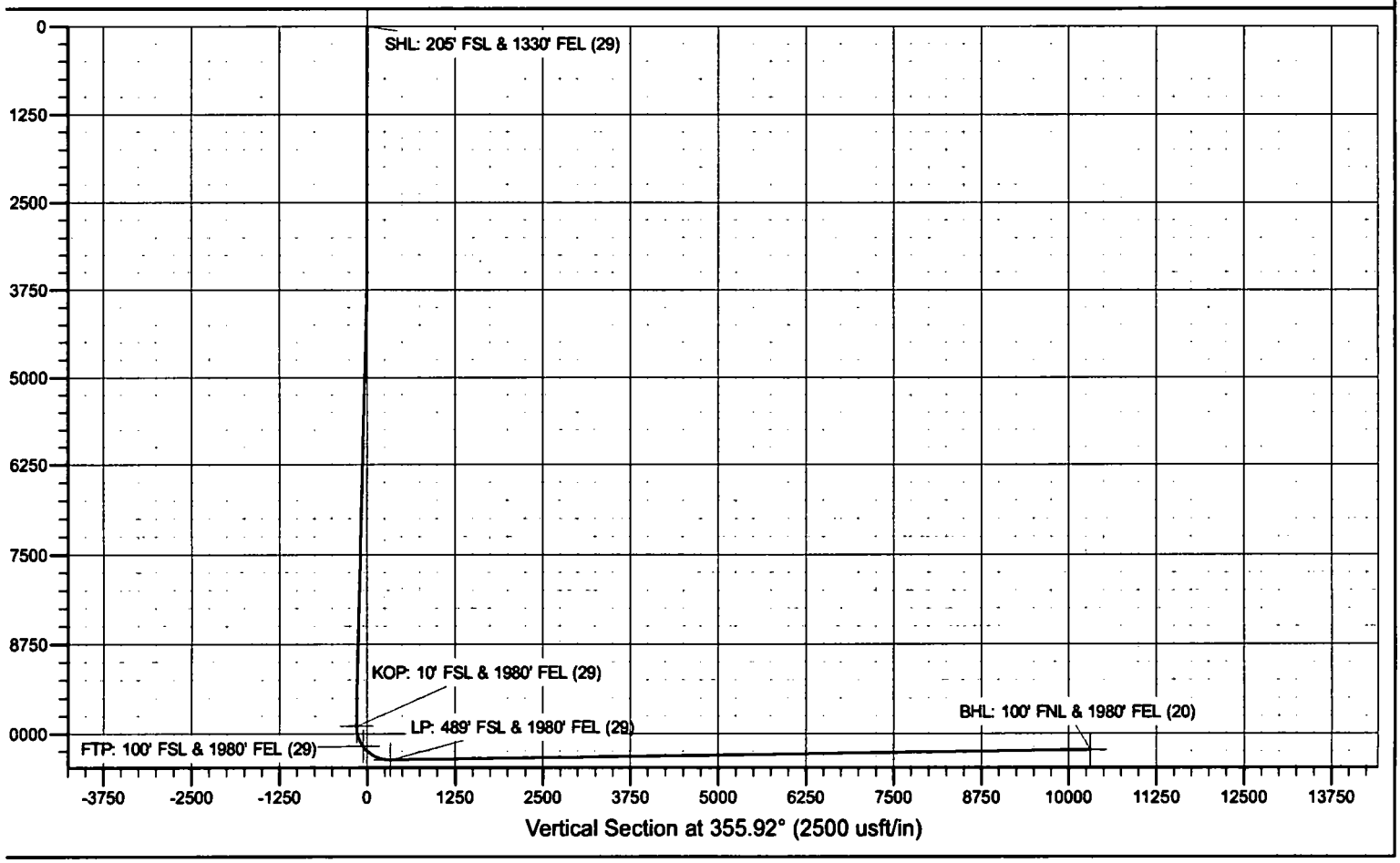
Planned Survey

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)
19,600.0	90.80	359.54	10,246.3	9,195.5	-724.3	9,223.8	0.00	0.00	0.00
19,700.0	90.80	359.54	10,244.9	9,295.5	-725.1	9,323.6	0.00	0.00	0.00
19,800.0	90.80	359.54	10,243.5	9,395.5	-725.9	9,423.3	0.00	0.00	0.00
19,900.0	90.80	359.54	10,242.1	9,495.5	-726.7	9,523.1	0.00	0.00	0.00
20,000.0	90.80	359.54	10,240.7	9,595.5	-727.5	9,622.9	0.00	0.00	0.00
20,100.0	90.80	359.54	10,239.3	9,695.5	-728.3	9,722.7	0.00	0.00	0.00
20,200.0	90.80	359.54	10,237.9	9,795.5	-729.1	9,822.5	0.00	0.00	0.00
20,300.0	90.80	359.54	10,236.5	9,895.4	-729.9	9,922.3	0.00	0.00	0.00
20,400.0	90.80	359.54	10,235.1	9,995.4	-730.7	10,022.1	0.00	0.00	0.00
20,500.0	90.80	359.54	10,233.7	10,095.4	-731.5	10,121.9	0.00	0.00	0.00
20,600.0	90.80	359.54	10,232.3	10,195.4	-732.3	10,221.7	0.00	0.00	0.00
20,689.6	90.80	359.54	10,231.0	10,285.0	-733.0	10,311.1	0.00	0.00	0.00
BHL: 100' FNL & 1980' FEL (20)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 205' FSL & 1330' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	592,072.00	805,541.00	32.6247235	-103.4751750
KOP: 10' FSL & 1980' FI - plan hits target center - Point	0.00	0.00	9,893.5	-200.0	-649.0	591,872.00	804,892.00	32.6241882	-103.4772881
FTP: 100' FSL & 1980' F - plan hits target center - Point	0.00	0.00	10,179.4	-105.0	-649.8	591,967.00	804,891.24	32.6244493	-103.4772881
BHL: 100' FNL & 1980' F - plan hits target center - Point	0.00	0.00	10,231.0	10,285.0	-733.0	602,357.00	804,808.00	32.6530072	-103.4772865
PPP5: 2646' FNL & 198(- plan hits target center - Point	0.00	0.00	10,266.6	7,739.0	-712.6	599,811.00	804,828.40	32.6460093	-103.4772869
PPP4: 1323' FSL & 198(- plan hits target center - Point	0.00	0.00	10,285.2	6,416.0	-702.0	598,488.00	804,838.99	32.6423729	-103.4772871
PPP3: 0' FSL & 1980' FE - plan hits target center - Point	0.00	0.00	10,303.7	5,092.0	-691.4	597,164.00	804,849.60	32.6387338	-103.4772873
PPP2: 2562' FNL & 198(- plan hits target center - Point	0.00	0.00	10,340.8	2,441.0	-670.2	594,513.00	804,870.84	32.6314473	-103.4772877
LP: 489' FSL & 1980' FE - plan hits target center - Point	0.00	0.00	10,371.0	284.2	-652.9	592,356.20	804,888.10	32.6255191	-103.4772881


Hereford 29/20 B2OB Fed Com #1H
Hard Lines
BHL: 100' FNL & 1980' FEL (20)
Sec 20
Sec 29
LP: 489' FSL & 1980' FEL (29)
FTP: 100' FSL & 1980' FEL (29)
SHL: 205' FSL & 1330' FEL (29)
KOP: 10' FSL & 1980' FEL (29)
1250
0000
8750
7500
6250
5000
3750
2500
1250
0
-1250
-10000
-8750
-7500
-6250
-5000
-3750
-2500
-1250
0
1250
2500
3750
5000
6250
7500
West(-)/East(+) (2500 usft/in)


SHL: 205' FSL & 1330' FEL (29)
KOP: 10' FSL & 1980' FEL (29)
LP: 489' FSL & 1980' FEL (29)
FTP: 100' FSL & 1980' FEL (29)
BHL: 100' FNL & 1980' FEL (20)
0
1250
2500
3750
5000
6250
7500
8750
0000
-3750
-2500
-1250
0
1250
2500
3750
5000
6250
7500
8750
10000
11250
12500
13750
Vertical Section at 355.92° (2500 usft/in)

Intent [X] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
Mewbourne Oil Co.	Hereford 29/20 B2OB Fed Com	1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	29	19S	35E		10	S	1980	E	Lea

Latitude	Longitude	NAD
32.6241882	-103.4772881	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	29	19S	35E		100	S	1980	E	Lea

Latitude	Longitude	NAD
32.6244493	-103.4772881	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	20	19S	35E		100	N	1980	E	Lea

Latitude	Longitude	NAD
32.6530077	-103.4772878	83

Is this well the defining well for the Horizontal Spacing Unit? [N]

Is this well an infill well? [Y]

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
Mewbourne Oil Co.	Hereford 29/20 B3PA St Com	2H

KZ 06/29/2018

Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

1. Geologic Formations

TVD of target	10,371'	Pilot hole depth	NA
MD at TD:	20,690'	Deepest expected fresh water:	50'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	1819		
Top of Salt	2102		
Castile			
Base of Salt	3228		
Yates	3397		
Seven Rivers	3887		
Queen	4607		
Lamar	5852	Oil/Gas	
Bell Canyon			
Cherry Canyon			
Manzanita Marker			
Brushy Canyon			
Bone Spring	7802	Oil/Gas	
1st Bone Spring Sand	9350		
2nd Bone Spring Sand	9672	Target Zone	
3rd Bone Spring Sand			
Abo			
Wolfcamp			
Devonian			
Ellenburger			
Granite Wash			

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

Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

2. Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	1900'	13.375"	54.5	J55	STC	1.27	3.07	4.96	8.24
12.25"	0'	3450'	9.625"	36	J55	LTC	1.13	1.96	3.65	4.54
8.75"	0'	10,688'	7"	26	HCP110	LTC	1.45	1.93	2.33	2.99
6.125"	9931'	20,690'	4.5"	13.5	P110	LTC	1.98	2.30	2.33	2.91
	BLM Minimum Safety Factor		1.125	1	1.6 Dry 1.8 Wet		1.6 Dry 1.8 Wet			

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

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd 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 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	

Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	1125	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	585	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	440	12.5	2.12	11	9	Lead: Class H + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	435	11.2	2.97	18	16	Class H + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

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

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	3250'	25%
Liner	9931'	25%

Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

4. Pressure Control Equipment

N	Variance: None

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

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

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

Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. • Provide description here: See attached schematic.	

5. Mud Program

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1900'	FW Gel	8.6-8.8	28-34	N/C
1900'	3450'	Saturated Brine	10.0	28-34	N/C
3450'	10,231'	Cut Brine	8.6-9.5	28-34	N/C
10,231'	10,371'	OBM	8.6-10.0	30-40	<10cc

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

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

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (9931') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
X	Gamma Ray	9931' (KOP) to TD

	Density	
	CBL	
	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5393 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

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

8. Other facets of operation

Is this a walking operation? If yes, describe.
Will be pre-setting casing? If yes, describe.

Attachments

Mewbourne Oil Company, Hereford 29/20 B2OB Fed Com #1H
Sec 29, T19S, R35E
SL: 205' FSL & 1330' FEL, Sec 29
BHL: 100' FNL & 1980' FEL, Sec 20

___ Directional Plan
___ Other, describe

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PWD Data Report

01/15/2020

APD ID: 10400038747 **Submission Date:** 02/15/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB 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? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe 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: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe 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: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB FED COM **Well Number:** 1H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

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BUREAU OF LAND MANAGEMENT

Bond Info Data Report

01/15/2020

APD ID: 10400038747

Submission Date: 02/15/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HEREFORD 29/20 B2OB 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: