

RECEIVED

FEB 13 2020

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		6. If Indian, Allottee or Tribe Name
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit or CA Agreement, Name and No.
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. GLOCK 17/16 WOLF.FED.COM 1H
2. Name of Operator MEWBOURNE OIL COMPANY		9. API Well No. 30-015-46746
3a. Address PO Box 5270 Hobbs NM 88240	3b. Phone No. (include area code) (575)393-5905	10. Well Location, if different from lease location WILDCAT, WOLFCAMP / WOLFCAMP G95
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW / 2060 FSL / 230 FWL / LAT 32.5719022 / LONG -104.1050405 At proposed prod. zone NESE / 2200 FSL / 100 FEL / LAT 32.5722631 / LONG -104.0717846		11. Sec., T. R. M. or Blk. and Survey or Area SEC 17 / T20S / R29E / NMP
14. Distance in miles and direction from nearest town or post office* 8.5 miles		12. County or Parish EDDY
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet		13. State NM
16. No of acres in lease 2494.41		17. Spacing Unit dedicated to this well 640
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 50 feet		20. BLM/BIA Bond No. in file FED: NM1693
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3308 feet		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) Cody Layton / Ph: (575)234-5959	Date 02/11/2020
Title Assistant Field Manager Lands & Minerals		
Office CARLSBAD		

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

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

APPROVED WITH CONDITIONS
Approval Date: 02/11/2020

Ref 2-17-20

*(Instructions on page 2)

NSL Required

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
LEASE NO.:	NMNM0001165
WELL NAME & NO.:	GLOCK 17-16 WOLI FED COM 1H
SURFACE HOLE FOOTAGE:	2060'/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 first 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.
 - ❖ 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 second 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 **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 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.

OTA02102020

**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**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 W0LI FED COM

Well Number: 1H

Is the proposed well in an area containing other mineral resources? NONE

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 B3EH and W0LI Fed Com

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 8.5 Miles

Distance to nearest well: 50 FT

Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: GLOCK17_16W0LIFEDCOM1H_wellplat_20190919143352.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	2060	FSL	230	FWL	20S	29E	17	Aliquot NWS W	32.5719022	-104.1050405	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 0001165	3308	0	0	Y
KOP Leg #1	2200	FSL	10	FWL	20S	29E	17	Aliquot NWS W	32.5722907	-104.1057532	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 0001165	-5515	8828	8823	Y
PPP Leg	2200	FSL	100	FWL	20S	29E	17	Aliquot NWS	32.5722905	-104.1054	EDD Y	NEW MEXI	NEW MEXI	F	NMNM 000116	-579	9125	9102	Y

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 W0LI 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	FSL	0	FW L	20S	29E	16	Aliquot NWS W	32.57227 79	- 104.0886 13	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055477 1	- 604 9	143 80	935 7	Y
EXIT Leg #1	220 0	FSL	100	FEL	20S	29E	16	Aliquot NESE	32.57226 31	- 104.0717 846	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055477 1	- 611 0	195 65	941 8	Y
BHL Leg #1	220 0	FSL	100	FEL	20S	29E	16	Aliquot NESE	32.57226 31	- 104.0717 846	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055477 1	- 611 0	195 65	941 8	Y



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

Drilling Plan Data Report

02/12/2020

APD ID: 10400047727

Submission Date: 09/26/2019

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 WOLI FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
542260	UNKNOWN	3308	28	28	OTHER : Top Soil	NONE	N
542251	TOP SALT	2828	480	480	SALT	NONE	N
542252	BASE OF SALT	2448	860	860	SALT	NONE	N
542261	YATES	2238	1070	1070	SANDSTONE	NATURAL GAS, OIL	N
542254	CAPITAN REEF	1878	1430	1430	DOLOMITE, LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
542253	LAMAR	168	3140	3140	LIMESTONE	NATURAL GAS, OIL	N
542255	BONE SPRING	-2472	5780	5780	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
542256	BONE SPRING 1ST	-3547	6855	6855	SANDSTONE	NATURAL GAS, OIL	N
542257	BONE SPRING 2ND	-4147	7455	7455	SANDSTONE	NATURAL GAS, OIL	N
542258	BONE SPRING 3RD	-5482	8790	8790	SANDSTONE	NATURAL GAS, OIL	N
542259	WOLFCAMP	-5877	9185	9185	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 19565

Equipment: Annular, Blind Ram, Pipe Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors are not required by 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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 WOLI FED COM

Well Number: 1H

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

Choke Diagram Attachment:

Glock_17_16_WOLI_Fed_Com_1H_5M_BOPE_Choke_Diagram_20190924133950.pdf

Glock_17_16_WOLI_Fed_Com_1H_Flex_Line_Specs_20190924134437.pdf

Glock_17_16_WOLI_Fed_Com_1H_Flex_Line_Specs_API_16C_20200203151918.pdf

BOP Diagram Attachment:

Glock_17_16_WOLI_Fed_Com_1H_Multi_Bowl_WH_20190924134455.pdf

Glock_17_16_WOLI_Fed_Com_1H_5M_BOPE_Schematic_20190924134455.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	11.5	DRY	37.2	DRY	39.0
2	INTERMEDIATE	17.5	13.375	NEW	API	N	0	1350	0	1350	3308	1958	1350	J-55	54.5	BUTT	1.68	4.05	DRY	6.99	DRY	11.8
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3025	0	3025	2982	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	9400	0	9268	2982	-5960	9400	P-110	26	LT&C	1.36	2.17	DRY	2.61	DRY	3.4
5	LINER	6.125	4.5	NEW	API	N	8828	19565	8823	9418	-5515	-6110	10737	P-110	13.5	LT&C	2.18	2.53	DRY	2.21	DRY	2.91

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 W0LI 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_W0LI_Fed_Com_1H_Csg_assumptions_20200203153221.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Glock_17_16_W0LI_Fed_Com_1H_Csg_assumptions_20200203153050.pdf

Casing ID: 3 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Glock_17_16_W0LI_Fed_Com_1H_Csg_assumptions_20200203153039.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 WOLI 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_WOLI_Fed_Com_1H_Csg_assumptions_20200203153025.pdf

Casing ID: 5String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Glock_17_16_WOLI_Fed_Com_1H_Csg_assumptions_20200203153104.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		808	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,

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 WOLI FED COM

Well Number: 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
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		0	6932	630	2.12	12.5	1336	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		6932	9400	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
INNER	Lead		8828	1956 5	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: Sufficient mud materials to maintain mud properties & meet minimum lost circulation and weight increase requirements will be kept on location at all times.

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

Circulating Medium Table

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 WOLI 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	9268	WATER-BASED MUD	8.6	9.7							
9268	9418	OIL-BASED MUD	10	12							MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.

Section 6 - Test, Logging, Coring

1st of production tests including testing procedures, equipment and safety measures:

Will run GR/CNL from KOP (8828') to surface

Will run MWD GR from KOP (8828') to TD

1st of open and cased hole logs run in the well:

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5876

Anticipated Surface Pressure: 3804

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Glock_17_16_WOLI_Fed_Com_1H_H2S_Plan_20190924145224.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GLOCK 17/16 WOLI FED COM

Well Number: 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Glock_17_16_WOLI_Fed_Com_1H_Dir_plot_20190924145246.pdf

Glock_17_16_WOLI_Fed_Com_1H_Dir_plan_20190924145246.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Glock_17_16_WOLI_Fed_Com_1H_Add_Info_20190924145317.pdf

Other Variance attachment:

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

Sec 17, T20S, R29E

SHL: 2060' FSL & 230' FWL, Sec 17

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

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	37.28	39.36
17.5"	0'	1350'	13.375"	54.5	J55	STC	1.68	4.05	6.99	11.59
12.25"	0'	3025'	9.625"	36	J55	LTC	1.46	2.54	4.16	5.18
8.75"	0'	9400'	7"	26	P110	LTC	1.38	2.17	2.61	3.4
6.125"	8828'	19565'	4.5"	13.5	P110	LTC	2.18	2.53	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?	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 W0LI Fed Com #1H

Sec 17, T20S, R29E

SHL: 2060' FSL & 230' FWL, Sec 17

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

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

Sec 17, T20S, R29E

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

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

Sec 17, T20S, R29E

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

Sec 17, T20S, R29E

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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
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If yes, are there three strings cemented to surface?	

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

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

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

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

3. Hydrogen Sulfide Protection and Monitoring Equipment

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. Visual Warning Systems

A. Wind direction indicators as indicated on the wellsite diagram.

B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. **Mud Program**

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

5. **Metallurgy**

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

6. **Communications**

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

7. **Well Testing**

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

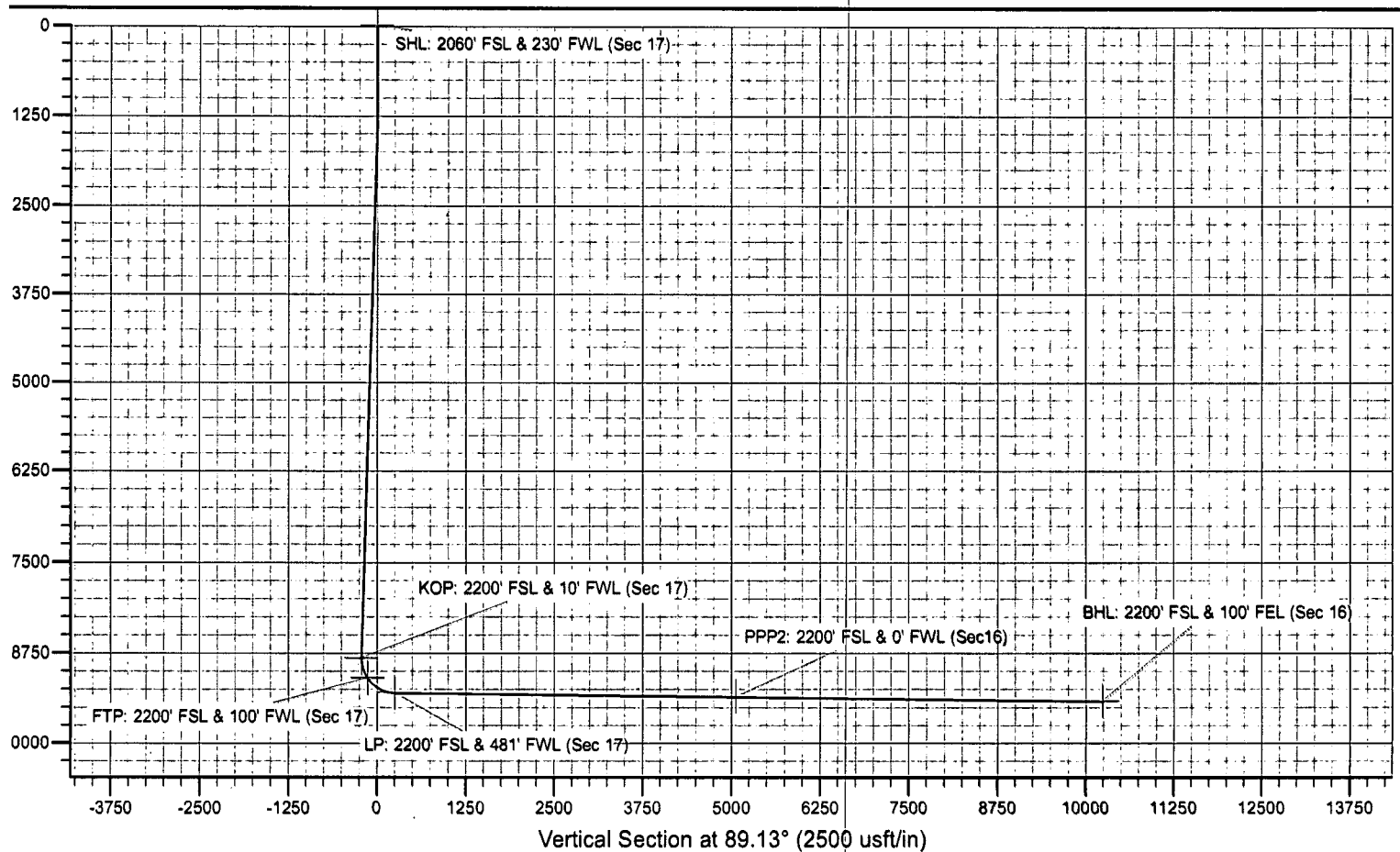
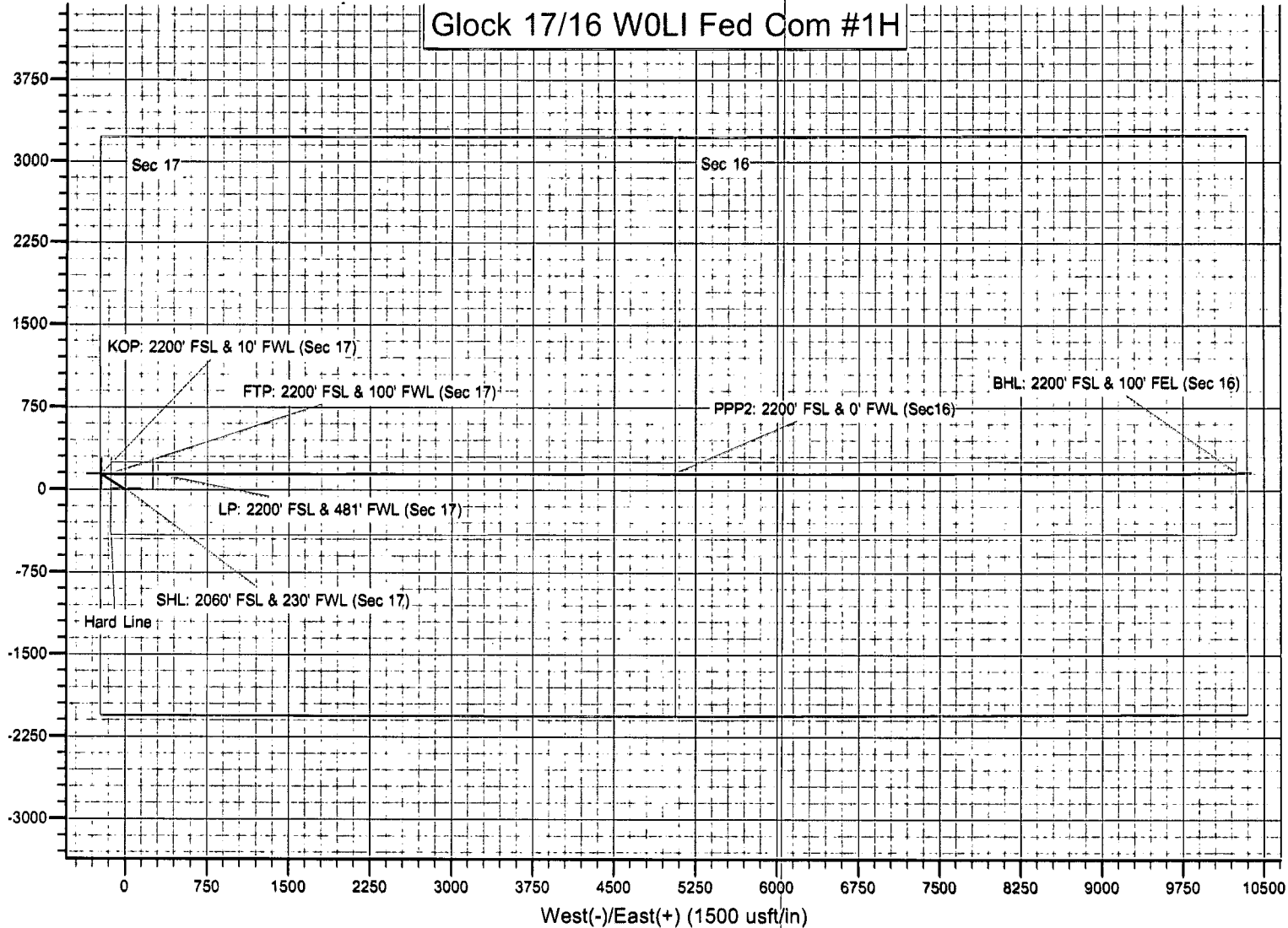
8. **Emergency Phone Numbers**

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

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

Glock 17/16 WOLI Fed Com #1H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Glock 17/16 W0LI Fed Com #1H

Sec 17, T20S, R29E

SHL: 2060' FSL & 230' FWL (Sec 17)

BHL: 2200' FSL & 100' FEL (Sec 16)

Plan: Design #1

Standard Planning Report

24 September, 2019

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 WOLI Fed Com #1H
Company:	Mowbourne 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 WOLI Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FSL & 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 WOLI Fed Com #1H		
Site Position:	Northing:	571,864.00 usft	Latitude: 32.5719018
From: Map	Easting:	611,663.00 usft	Longitude: -104.1050400
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: 32.5719018
	+E/-W	0.0 usft	Longitude: -104.1050400
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,308.0 usft
			Ground Level: 3,280.0 usft

Wellbore	BHL: 2200' FSL & 100' FEL (Sec 16)		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	9/23/2019	6.83
			Dip Angle
			(°)
			Field Strength
			(nT)
			60.21
			47,919

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
			(°)
			89.13

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	
1,486.0	2.04	302.66	1,486.0	1.3	-2.0	1.50	1.50	0.00	302.66	
8,691.6	2.04	302.66	8,687.0	139.7	-218.0	0.00	0.00	0.00	0.00	
8,827.6	0.00	0.00	8,823.0	141.0	-220.0	1.50	-1.50	0.00	180.00	KOP: 2200' FSL & 10'
9,571.3	89.32	89.92	9,300.0	141.6	251.4	12.01	12.01	0.00	89.92	
19,564.6	89.32	89.92	9,418.0	155.0	10,244.0	0.00	0.00	0.00	0.00	BHL: 2200' FSL & 100'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 WOLI Fed Com #1H
Company:	Mowbourne 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 WOLI Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FSL & 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: 2060' 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	302.66	1,400.0	0.2	-0.3	-0.3	1.50	1.50	0.00
1,486.0	2.04	302.66	1,486.0	1.3	-2.0	-2.0	1.50	1.50	0.00
1,500.0	2.04	302.66	1,500.0	1.6	-2.5	-2.4	0.00	0.00	0.00
1,600.0	2.04	302.66	1,599.9	3.5	-5.5	-5.4	0.00	0.00	0.00
1,700.0	2.04	302.66	1,699.8	5.4	-8.5	-8.4	0.00	0.00	0.00
1,800.0	2.04	302.66	1,799.8	7.3	-11.4	-11.3	0.00	0.00	0.00
1,900.0	2.04	302.66	1,899.7	9.3	-14.4	-14.3	0.00	0.00	0.00
2,000.0	2.04	302.66	1,999.6	11.2	-17.4	-17.3	0.00	0.00	0.00
2,100.0	2.04	302.66	2,099.6	13.1	-20.4	-20.2	0.00	0.00	0.00
2,200.0	2.04	302.66	2,199.5	15.0	-23.4	-23.2	0.00	0.00	0.00
2,300.0	2.04	302.66	2,299.5	16.9	-26.4	-26.2	0.00	0.00	0.00
2,400.0	2.04	302.66	2,399.4	18.9	-29.4	-29.1	0.00	0.00	0.00
2,500.0	2.04	302.66	2,499.3	20.8	-32.4	-32.1	0.00	0.00	0.00
2,600.0	2.04	302.66	2,599.3	22.7	-35.4	-35.1	0.00	0.00	0.00
2,700.0	2.04	302.66	2,699.2	24.6	-38.4	-38.0	0.00	0.00	0.00
2,800.0	2.04	302.66	2,799.1	26.5	-41.4	-41.0	0.00	0.00	0.00
2,900.0	2.04	302.66	2,899.1	28.5	-44.4	-44.0	0.00	0.00	0.00
3,000.0	2.04	302.66	2,999.0	30.4	-47.4	-46.9	0.00	0.00	0.00
3,100.0	2.04	302.66	3,098.9	32.3	-50.4	-49.9	0.00	0.00	0.00
3,200.0	2.04	302.66	3,198.9	34.2	-53.4	-52.9	0.00	0.00	0.00
3,300.0	2.04	302.66	3,298.8	36.1	-56.4	-55.8	0.00	0.00	0.00
3,400.0	2.04	302.66	3,398.8	38.1	-59.4	-58.8	0.00	0.00	0.00
3,500.0	2.04	302.66	3,498.7	40.0	-62.4	-61.8	0.00	0.00	0.00
3,600.0	2.04	302.66	3,598.6	41.9	-65.4	-64.7	0.00	0.00	0.00
3,700.0	2.04	302.66	3,698.6	43.8	-68.4	-67.7	0.00	0.00	0.00
3,800.0	2.04	302.66	3,798.5	45.7	-71.4	-70.7	0.00	0.00	0.00
3,900.0	2.04	302.66	3,898.4	47.7	-74.4	-73.6	0.00	0.00	0.00
4,000.0	2.04	302.66	3,998.4	49.6	-77.4	-76.6	0.00	0.00	0.00
4,100.0	2.04	302.66	4,098.3	51.5	-80.4	-79.6	0.00	0.00	0.00
4,200.0	2.04	302.66	4,198.3	53.4	-83.4	-82.5	0.00	0.00	0.00
4,300.0	2.04	302.66	4,298.2	55.4	-86.4	-85.5	0.00	0.00	0.00
4,400.0	2.04	302.66	4,398.1	57.3	-89.4	-88.5	0.00	0.00	0.00
4,500.0	2.04	302.66	4,498.1	59.2	-92.4	-91.4	0.00	0.00	0.00
4,600.0	2.04	302.66	4,598.0	61.1	-95.4	-94.4	0.00	0.00	0.00
4,700.0	2.04	302.66	4,697.9	63.0	-98.3	-97.4	0.00	0.00	0.00
4,800.0	2.04	302.66	4,797.9	65.0	-101.3	-100.4	0.00	0.00	0.00
4,900.0	2.04	302.66	4,897.8	66.9	-104.3	-103.3	0.00	0.00	0.00
5,000.0	2.04	302.66	4,997.7	68.8	-107.3	-106.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 WOLI 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 WOLI Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FSL & 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	2.04	302.66	5,097.7	70.7	-110.3	-109.3	0.00	0.00	0.00
5,200.0	2.04	302.66	5,197.6	72.6	-113.3	-112.2	0.00	0.00	0.00
5,300.0	2.04	302.66	5,297.6	74.6	-116.3	-115.2	0.00	0.00	0.00
5,400.0	2.04	302.66	5,397.5	76.5	-119.3	-118.2	0.00	0.00	0.00
5,500.0	2.04	302.66	5,497.4	78.4	-122.3	-121.1	0.00	0.00	0.00
5,600.0	2.04	302.66	5,597.4	80.3	-125.3	-124.1	0.00	0.00	0.00
5,700.0	2.04	302.66	5,697.3	82.2	-128.3	-127.1	0.00	0.00	0.00
5,800.0	2.04	302.66	5,797.2	84.2	-131.3	-130.0	0.00	0.00	0.00
5,900.0	2.04	302.66	5,897.2	86.1	-134.3	-133.0	0.00	0.00	0.00
6,000.0	2.04	302.66	5,997.1	88.0	-137.3	-136.0	0.00	0.00	0.00
6,100.0	2.04	302.66	6,097.0	89.9	-140.3	-138.9	0.00	0.00	0.00
6,200.0	2.04	302.66	6,197.0	91.8	-143.3	-141.9	0.00	0.00	0.00
6,300.0	2.04	302.66	6,296.9	93.8	-146.3	-144.9	0.00	0.00	0.00
6,400.0	2.04	302.66	6,396.9	95.7	-149.3	-147.8	0.00	0.00	0.00
6,500.0	2.04	302.66	6,496.8	97.6	-152.3	-150.8	0.00	0.00	0.00
6,600.0	2.04	302.66	6,596.7	99.5	-155.3	-153.8	0.00	0.00	0.00
6,700.0	2.04	302.66	6,696.7	101.4	-158.3	-156.7	0.00	0.00	0.00
6,800.0	2.04	302.66	6,796.6	103.4	-161.3	-159.7	0.00	0.00	0.00
6,900.0	2.04	302.66	6,896.5	105.3	-164.3	-162.7	0.00	0.00	0.00
7,000.0	2.04	302.66	6,996.5	107.2	-167.3	-165.6	0.00	0.00	0.00
7,100.0	2.04	302.66	7,096.4	109.1	-170.3	-168.6	0.00	0.00	0.00
7,200.0	2.04	302.66	7,196.4	111.0	-173.3	-171.6	0.00	0.00	0.00
7,300.0	2.04	302.66	7,296.3	113.0	-176.3	-174.5	0.00	0.00	0.00
7,400.0	2.04	302.66	7,396.2	114.9	-179.3	-177.5	0.00	0.00	0.00
7,500.0	2.04	302.66	7,496.2	116.8	-182.3	-180.5	0.00	0.00	0.00
7,600.0	2.04	302.66	7,596.1	118.7	-185.3	-183.4	0.00	0.00	0.00
7,700.0	2.04	302.66	7,696.0	120.6	-188.2	-186.4	0.00	0.00	0.00
7,800.0	2.04	302.66	7,796.0	122.6	-191.2	-189.4	0.00	0.00	0.00
7,900.0	2.04	302.66	7,895.9	124.5	-194.2	-192.3	0.00	0.00	0.00
8,000.0	2.04	302.66	7,995.8	126.4	-197.2	-195.3	0.00	0.00	0.00
8,100.0	2.04	302.66	8,095.8	128.3	-200.2	-198.3	0.00	0.00	0.00
8,200.0	2.04	302.66	8,195.7	130.3	-203.2	-201.2	0.00	0.00	0.00
8,300.0	2.04	302.66	8,295.7	132.2	-206.2	-204.2	0.00	0.00	0.00
8,400.0	2.04	302.66	8,395.6	134.1	-209.2	-207.2	0.00	0.00	0.00
8,500.0	2.04	302.66	8,495.5	136.0	-212.2	-210.1	0.00	0.00	0.00
8,600.0	2.04	302.66	8,595.5	137.9	-215.2	-213.1	0.00	0.00	0.00
8,691.6	2.04	302.66	8,687.0	139.7	-218.0	-215.8	0.00	0.00	0.00
8,700.0	1.91	302.66	8,695.4	139.8	-218.2	-216.1	1.50	-1.50	0.00
8,800.0	0.41	302.66	8,795.4	140.9	-219.9	-217.8	1.50	-1.50	0.00
8,827.6	0.00	0.00	8,823.0	141.0	-220.0	-217.8	1.50	-1.50	0.00
KOP: 2200' FSL & 10' FWL (Sec 17)									
8,900.0	8.69	89.92	8,895.1	141.0	-214.5	-212.4	12.01	12.01	0.00
9,000.0	20.70	89.92	8,991.6	141.0	-189.2	-187.0	12.01	12.01	0.00
9,100.0	32.71	89.92	9,080.8	141.1	-144.3	-142.2	12.01	12.01	0.00
9,125.4	35.77	89.92	9,101.8	141.1	-130.0	-127.9	12.01	12.01	0.00
FTP: 2200' FSL & 100' FWL (Sec 17)									
9,200.0	44.73	89.92	9,158.7	141.2	-81.9	-79.7	12.01	12.01	0.00
9,300.0	56.74	89.92	9,221.9	141.3	-4.6	-2.5	12.01	12.01	0.00
9,400.0	68.75	89.92	9,267.6	141.4	84.1	86.2	12.01	12.01	0.00
9,500.0	80.76	89.92	9,293.8	141.5	180.4	182.5	12.01	12.01	0.00
9,571.3	89.32	89.92	9,300.0	141.6	251.4	253.5	12.01	12.01	0.00
LP: 2200' FSL & 481' FWL (Sec 17)									
9,600.0	89.32	89.92	9,300.3	141.7	280.1	282.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 WOLI 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 WOLI Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FSL & 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	89.32	89.92	9,301.5	141.8	380.1	382.2	0.00	0.00	0.00
9,800.0	89.32	89.92	9,302.7	141.9	480.1	482.2	0.00	0.00	0.00
9,900.0	89.32	89.92	9,303.9	142.1	580.1	582.1	0.00	0.00	0.00
10,000.0	89.32	89.92	9,305.1	142.2	680.1	682.1	0.00	0.00	0.00
10,100.0	89.32	89.92	9,306.2	142.3	780.1	782.1	0.00	0.00	0.00
10,200.0	89.32	89.92	9,307.4	142.5	880.0	882.1	0.00	0.00	0.00
10,300.0	89.32	89.92	9,308.6	142.6	980.0	982.1	0.00	0.00	0.00
10,400.0	89.32	89.92	9,309.8	142.7	1,080.0	1,082.1	0.00	0.00	0.00
10,500.0	89.32	89.92	9,311.0	142.9	1,180.0	1,182.0	0.00	0.00	0.00
10,600.0	89.32	89.92	9,312.1	143.0	1,280.0	1,282.0	0.00	0.00	0.00
10,700.0	89.32	89.92	9,313.3	143.1	1,380.0	1,382.0	0.00	0.00	0.00
10,800.0	89.32	89.92	9,314.5	143.3	1,480.0	1,482.0	0.00	0.00	0.00
10,900.0	89.32	89.92	9,315.7	143.4	1,580.0	1,582.0	0.00	0.00	0.00
11,000.0	89.32	89.92	9,316.9	143.5	1,680.0	1,682.0	0.00	0.00	0.00
11,100.0	89.32	89.92	9,318.1	143.7	1,780.0	1,781.9	0.00	0.00	0.00
11,200.0	89.32	89.92	9,319.2	143.8	1,880.0	1,881.9	0.00	0.00	0.00
11,300.0	89.32	89.92	9,320.4	143.9	1,980.0	1,981.9	0.00	0.00	0.00
11,400.0	89.32	89.92	9,321.6	144.1	2,080.0	2,081.9	0.00	0.00	0.00
11,500.0	89.32	89.92	9,322.8	144.2	2,180.0	2,181.9	0.00	0.00	0.00
11,600.0	89.32	89.92	9,324.0	144.3	2,279.9	2,281.9	0.00	0.00	0.00
11,700.0	89.32	89.92	9,325.1	144.5	2,379.9	2,381.9	0.00	0.00	0.00
11,800.0	89.32	89.92	9,326.3	144.6	2,479.9	2,481.8	0.00	0.00	0.00
11,900.0	89.32	89.92	9,327.5	144.7	2,579.9	2,581.8	0.00	0.00	0.00
12,000.0	89.32	89.92	9,328.7	144.9	2,679.9	2,681.8	0.00	0.00	0.00
12,100.0	89.32	89.92	9,329.9	145.0	2,779.9	2,781.8	0.00	0.00	0.00
12,200.0	89.32	89.92	9,331.0	145.1	2,879.9	2,881.8	0.00	0.00	0.00
12,300.0	89.32	89.92	9,332.2	145.3	2,979.9	2,981.8	0.00	0.00	0.00
12,400.0	89.32	89.92	9,333.4	145.4	3,079.9	3,081.7	0.00	0.00	0.00
12,500.0	89.32	89.92	9,334.6	145.5	3,179.9	3,181.7	0.00	0.00	0.00
12,600.0	89.32	89.92	9,335.8	145.7	3,279.9	3,281.7	0.00	0.00	0.00
12,700.0	89.32	89.92	9,336.9	145.8	3,379.9	3,381.7	0.00	0.00	0.00
12,800.0	89.32	89.92	9,338.1	146.0	3,479.9	3,481.7	0.00	0.00	0.00
12,900.0	89.32	89.92	9,339.3	146.1	3,579.9	3,581.7	0.00	0.00	0.00
13,000.0	89.32	89.92	9,340.5	146.2	3,679.8	3,681.6	0.00	0.00	0.00
13,100.0	89.32	89.92	9,341.7	146.4	3,779.8	3,781.6	0.00	0.00	0.00
13,200.0	89.32	89.92	9,342.8	146.5	3,879.8	3,881.6	0.00	0.00	0.00
13,300.0	89.32	89.92	9,344.0	146.6	3,979.8	3,981.6	0.00	0.00	0.00
13,400.0	89.32	89.92	9,345.2	146.8	4,079.8	4,081.6	0.00	0.00	0.00
13,500.0	89.32	89.92	9,346.4	146.9	4,179.8	4,181.6	0.00	0.00	0.00
13,600.0	89.32	89.92	9,347.6	147.0	4,279.8	4,281.5	0.00	0.00	0.00
13,700.0	89.32	89.92	9,348.8	147.2	4,379.8	4,381.5	0.00	0.00	0.00
13,800.0	89.32	89.92	9,349.9	147.3	4,479.8	4,481.5	0.00	0.00	0.00
13,900.0	89.32	89.92	9,351.1	147.4	4,579.8	4,581.5	0.00	0.00	0.00
14,000.0	89.32	89.92	9,352.3	147.6	4,679.8	4,681.5	0.00	0.00	0.00
14,100.0	89.32	89.92	9,353.5	147.7	4,779.8	4,781.5	0.00	0.00	0.00
14,200.0	89.32	89.92	9,354.7	147.8	4,879.8	4,881.4	0.00	0.00	0.00
14,300.0	89.32	89.92	9,355.8	148.0	4,979.8	4,981.4	0.00	0.00	0.00
14,380.3	89.32	89.92	9,356.8	148.1	5,060.0	5,061.7	0.00	0.00	0.00
PPP2: 2200' FSL & 0' FWL (Sec16)									
14,400.0	89.32	89.92	9,357.0	148.1	5,079.7	5,081.4	0.00	0.00	0.00
14,500.0	89.32	89.92	9,358.2	148.2	5,179.7	5,181.4	0.00	0.00	0.00
14,600.0	89.32	89.92	9,359.4	148.4	5,279.7	5,281.4	0.00	0.00	0.00
14,700.0	89.32	89.92	9,360.6	148.5	5,379.7	5,381.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 WOLI 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 WOLI Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FSL & 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	89.32	89.92	9,361.7	148.6	5,479.7	5,481.3	0.00	0.00	0.00
14,900.0	89.32	89.92	9,362.9	148.8	5,579.7	5,581.3	0.00	0.00	0.00
15,000.0	89.32	89.92	9,364.1	148.9	5,679.7	5,681.3	0.00	0.00	0.00
15,100.0	89.32	89.92	9,365.3	149.0	5,779.7	5,781.3	0.00	0.00	0.00
15,200.0	89.32	89.92	9,366.5	149.2	5,879.7	5,881.3	0.00	0.00	0.00
15,300.0	89.32	89.92	9,367.6	149.3	5,979.7	5,981.3	0.00	0.00	0.00
15,400.0	89.32	89.92	9,368.8	149.4	6,079.7	6,081.2	0.00	0.00	0.00
15,500.0	89.32	89.92	9,370.0	149.6	6,179.7	6,181.2	0.00	0.00	0.00
15,600.0	89.32	89.92	9,371.2	149.7	6,279.7	6,281.2	0.00	0.00	0.00
15,700.0	89.32	89.92	9,372.4	149.8	6,379.7	6,381.2	0.00	0.00	0.00
15,800.0	89.32	89.92	9,373.5	150.0	6,479.6	6,481.2	0.00	0.00	0.00
15,900.0	89.32	89.92	9,374.7	150.1	6,579.6	6,581.2	0.00	0.00	0.00
16,000.0	89.32	89.92	9,375.9	150.2	6,679.6	6,681.1	0.00	0.00	0.00
16,100.0	89.32	89.92	9,377.1	150.4	6,779.6	6,781.1	0.00	0.00	0.00
16,200.0	89.32	89.92	9,378.3	150.5	6,879.6	6,881.1	0.00	0.00	0.00
16,300.0	89.32	89.92	9,379.5	150.6	6,979.6	6,981.1	0.00	0.00	0.00
16,400.0	89.32	89.92	9,380.6	150.8	7,079.6	7,081.1	0.00	0.00	0.00
16,500.0	89.32	89.92	9,381.8	150.9	7,179.6	7,181.1	0.00	0.00	0.00
16,600.0	89.32	89.92	9,383.0	151.0	7,279.6	7,281.0	0.00	0.00	0.00
16,700.0	89.32	89.92	9,384.2	151.2	7,379.6	7,381.0	0.00	0.00	0.00
16,800.0	89.32	89.92	9,385.4	151.3	7,479.6	7,481.0	0.00	0.00	0.00
16,900.0	89.32	89.92	9,386.5	151.4	7,579.6	7,581.0	0.00	0.00	0.00
17,000.0	89.32	89.92	9,387.7	151.6	7,679.6	7,681.0	0.00	0.00	0.00
17,100.0	89.32	89.92	9,388.9	151.7	7,779.6	7,781.0	0.00	0.00	0.00
17,200.0	89.32	89.92	9,390.1	151.8	7,879.5	7,880.9	0.00	0.00	0.00
17,300.0	89.32	89.92	9,391.3	152.0	7,979.5	7,980.9	0.00	0.00	0.00
17,400.0	89.32	89.92	9,392.4	152.1	8,079.5	8,080.9	0.00	0.00	0.00
17,500.0	89.32	89.92	9,393.6	152.2	8,179.5	8,180.9	0.00	0.00	0.00
17,600.0	89.32	89.92	9,394.8	152.4	8,279.5	8,280.9	0.00	0.00	0.00
17,700.0	89.32	89.92	9,396.0	152.5	8,379.5	8,380.9	0.00	0.00	0.00
17,800.0	89.32	89.92	9,397.2	152.6	8,479.5	8,480.8	0.00	0.00	0.00
17,900.0	89.32	89.92	9,398.3	152.8	8,579.5	8,580.8	0.00	0.00	0.00
18,000.0	89.32	89.92	9,399.5	152.9	8,679.5	8,680.8	0.00	0.00	0.00
18,100.0	89.32	89.92	9,400.7	153.0	8,779.5	8,780.8	0.00	0.00	0.00
18,200.0	89.32	89.92	9,401.9	153.2	8,879.5	8,880.8	0.00	0.00	0.00
18,300.0	89.32	89.92	9,403.1	153.3	8,979.5	8,980.8	0.00	0.00	0.00
18,400.0	89.32	89.92	9,404.2	153.4	9,079.5	9,080.7	0.00	0.00	0.00
18,500.0	89.32	89.92	9,405.4	153.6	9,179.5	9,180.7	0.00	0.00	0.00
18,600.0	89.32	89.92	9,406.6	153.7	9,279.5	9,280.7	0.00	0.00	0.00
18,700.0	89.32	89.92	9,407.8	153.8	9,379.4	9,380.7	0.00	0.00	0.00
18,800.0	89.32	89.92	9,409.0	154.0	9,479.4	9,480.7	0.00	0.00	0.00
18,900.0	89.32	89.92	9,410.2	154.1	9,579.4	9,580.7	0.00	0.00	0.00
19,000.0	89.32	89.92	9,411.3	154.2	9,679.4	9,680.6	0.00	0.00	0.00
19,100.0	89.32	89.92	9,412.5	154.4	9,779.4	9,780.6	0.00	0.00	0.00
19,200.0	89.32	89.92	9,413.7	154.5	9,879.4	9,880.6	0.00	0.00	0.00
19,300.0	89.32	89.92	9,414.9	154.6	9,979.4	9,980.6	0.00	0.00	0.00
19,400.0	89.32	89.92	9,416.1	154.8	10,079.4	10,080.6	0.00	0.00	0.00
19,500.0	89.32	89.92	9,417.2	154.9	10,179.4	10,180.6	0.00	0.00	0.00
19,564.6	89.32	89.92	9,418.0	155.0	10,244.0	10,245.2	0.00	0.00	0.00
BHL: 2200' FSL & 100' FEL (Sec 16)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Glock 17/16 WOLI 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 WOLI Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2200' FSL & 100' FEL (Sec 16)		
Design:	Design #1		

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: 2080' FSL & 230' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	571,864.00	611,663.00	32.5719018	-104.1050400	
KOP: 2200' FSL & 10' FV - plan hits target center - Point	0.00	0.00	8,823.0	141.0	-220.0	572,005.00	611,443.00	32.5722907	-104.1057532	
FTP: 2200' FSL & 100' F - plan hits target center - Point	0.00	0.00	9,101.9	141.1	-130.0	572,005.12	611,533.00	32.5722905	-104.1054610	
LP: 2200' FSL & 481' FV - plan hits target center - Point	0.00	0.00	9,300.0	141.6	251.4	572,005.60	611,914.40	32.5722896	-104.1042229	
PPP2: 2200' FSL & 0' FV - plan hits target center - Point	0.00	0.00	9,356.8	148.1	5,060.0	572,012.07	616,723.00	32.5722779	-104.0886130	
BHL: 2200' FSL & 100' F - plan hits target center - Point	0.00	0.00	9,418.0	155.0	10,244.0	572,019.00	621,907.00	32.5722631	-104.0717846	

Intent ☒ As Drilled ☐

API #

Operator Name: MEWBOURNE OIL COMPANY	Property Name: GLOCK 17/16 WOLI FED COM	Well Number 1H
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Kick Off Point (KOP)

UL L	Section 17	Township 20S	Range 29E	Lot	Feet 2200	From N/S S	Feet 10	From E/W W	County EDDY
Latitude 32.5722907					Longitude -104.1057532			NAD 83	

First Take Point (FTP)

330 For GAS

UL L	Section 17	Township 20S	Range 29E	Lot	Feet 2200	From N/S S	Feet 100	From E/W W	County EDDY
Latitude 32.5722905					Longitude -104.1054610			NAD 83	

Last Take Point (LTP)

330 For GAS

UL I	Section 16	Township 20S	Range 29E	Lot	Feet 2200	From N/S S	Feet 100	From E/W E	County EDDY
Latitude 32.5722631					Longitude -104.0717846			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
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KZ 06/29/2018

NSL

STANDARD For GAS OFFSET 330'

R.P.