Carlsbad Field Office

OCD Hobbs

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

ROVED 4-0137

Form 3160-3 (June 2015)

ÚNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT 100 2 5 2019

5 Lease Serial No

| BUREAU OF LAND MANAG | EMENT 2.5 2019 | NMNM128929 |
|--|---|---|
| APPLICATION FOR PERMIT TO DRI | | 6. If Indian, Allotee or Tribe Name |
| la. Type of work: | • | 7. If Unit or CA Agreement, Name and No. |
| | e Zone Multiple Zone | 8. Lease Name and Well No. PADUCA 7/6 W1GB FEDERAL 1H 22 5 470 |
| 2. Name of Operator MEWBOURNE OIL COMPANY (14744) | | 9. APJ-Well No. 45869 |
| | Phone No. (include area code) 75)393-5905 | 10 Field and Pool, or Exploratory 980 WOLFCAMP XWG-025-G-08 5263205N L |
| 4. Location of Well (Report location clearly and in accordance with At surface SWNE / 2400 FNL / 1770 FEL / LAT 32.058289 At proposed prod. zone NWNE / 100 FNL / 2310 FEL / LAT | 96 / LONG -103.7115329 | 11. Sec., T. R. M. of Blk. and Survey or Area SEC 77-726S / R32E / NMP |
| 14. Distance in miles and direction from nearest town or post office* 30 miles | | 12. County or Parish 13. State NM |
| location to nearest | No of acres in lease 17. Spacii | Unit dedicated to this well |
| to pearest well drilling completed | 9. Proposed Depth 20/BLM/ 8071eet / 19388 feet FED: NM | BIA Bond No. in file |
| 3277 feet 07 | Approximate date work will start* /17/2018 | 23. Estimated duration 60 days |
| The following, completed in accordance with the requirements of On (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 L SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operation Item 20 above). 5. Operator certification. | lydraulic Fracturing rule per 43 CFR 3162.3-3 s unless covered by an existing bond on file (see |
| 25. Signature | BLM. Name (Printed/Typed) | Date |
| (Electronic Submission) Title Regulatory | Bradley Bishop / Ph: (575)393-590 | 5 07/31/2018 |
| Approved by (Signature) (Electronic Submission) | Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 | Date 04/05/2019 |
| Title Assistant Field Manager Lands & Minerals | Office CARLSBAD | |
| Application approval does not warrant or certify that the applicant ho applicant to conduct operations thereon. Conditions of approval, if any, are attached. | olds legal or equitable title to those rights | in the subject lease which would entitle the |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make of the United States any false, fictitious or fraudulent statements or re | | |

Pec Och on offe 5/19

APPROVED WITH CONDITIONS

APProval Date: 04/05/2019

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*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: SWNE / 2400 FNL / 1770 FEL / TWSP: 26S / RANGE: 32E / SECTION: 7 / LAT: 32.0582896 / LONG: -103.7115329 (TVD: Qfeet, MD; Qfeet)

PPP: SWNE / 2573 FNL / 2310 FEL / TWSP: 26S / RANGE: 32E / SECTION: 7 / LAT: 32.0587728 / LONG: -103.713327 (TVD: Qfeet, MD: 11917 feet)

BHL: NWNE / 100 FNL / 2310 FEL / TWSP: 26S / RANGE: 32E / SECTION: 6 / LAT: 32.0792288 / LONG: -103.713337 (TVD: Qfeet, MD: 19388 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934 Email: pperez@blm.gov

(Form 3160-3, page 3)

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Mewbourne Oil Company

LEASE NO.: NMNM-128929

WELL NAME & NO.: | Paduca 7 6 W1GB Federal 1H

SURFACE HOLE FOOTAGE: 2400' FNL & 1770' FEL

BOTTOM HOLE FOOTAGE | 0100' FNL & 2310' FEL Sec. 06, T. 26 S., R 32 E.

LOCATION: | Section 07, T. 26 S., R 32 E., NMPM

COUNTY: | County, New Mexico

A. DRILLING OPERATIONS 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)

☐ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 3933612

- 1. 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.
- 2. 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. 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 is located, this does not include the dog house or stairway area.

- 4. 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.
- B. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

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.

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

High Cave/Karst

Possibility of water flows in the Castile and Salado.

Possibility of lost circulation in the Rustler, Red Beds, and Delaware.

Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH. IF THE PRIMARY CEMENT JOB ON THE SURFACE CASING DOES NOT CIRCULATE, THEN THE NEXT TWO CASING STRINGS MUST BE CEMENTED TO SURFACE.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1175 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - 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 is to include the lead cement slurry.
 - 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.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

| 2. | The minimum require | ed fill of cement | behind the 9-5/8 incl | n intermediate casing is: |
|----|---------------------|-------------------|-----------------------|---------------------------|
| | | | | |

| Cement to surface. | If cement does not | t circulate see | B.1.a, c-d above. | Wait on |
|--------------------|--------------------|-----------------|-------------------|---------|
| cement (WOC) tir | me for a primary o | cement job is | to include the le | ad |

cement slurry due to cave/karst. Excess calculates to 24% - Additional cement may be required.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required through the curve and a minimum of one every other joint.

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

Operator has proposed DV tool at depth of 5520', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

| a. | First stage to DV tool: |
|----|--|
| | Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve approved top of cement on the next stage. |
| b. | Second stage above DV tool: |
| П | Cement should tie-back at least 200 feet into previous casing string. Operator |

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

shall provide method of verification.

| 4. | The minimum required fill of cement behind the 4-1/2 inch production Liner is: |
|----|--|
| | ☐ Cement as proposed. Operator shall provide method of verification. |

5. 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.

C. 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 53.

- 2. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. 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 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.

Page 5 of 8

- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Operator shall perform the 9-5/8" and 7" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
- 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.

Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi.)

10M 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. The appropriate BLM office shall be notified a minimum of 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).
 - a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.

Page 6 of 8

- b. 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.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. 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.
- e. 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.
- f. 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.

D. 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.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. WASTE MATERIAL AND FLUIDS

Page 7 of 8

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.

JAM 113018

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Wewbourne Oil Company
NMNM 128929
1H:PADUCA 7-6 W1GB FEDERAL
2400'/N & 1770'/E
100'/N & 2310'/E
100'/N & 2310'/E
LOCATION:
COUNTY: LEA COUNTY, NM

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 |
| Hydrology |
| ☐ Construction |
| Notification |
| Topsoil |
| Closed Loop System |
| Federal Mineral Material Pits |
| Well Pads |
| Roads |
| Road Section Diagram |
| □ Production (Post Drilling) |
| Well Structures & Facilities |
| Pipelines |
| ☐ Interim Reclamation |
| ☐ Final Abandonment & Reclamation |

I. GENERAL PROVISIONS

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

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II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

Page 2 of 17

V. SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

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

Construction:

General Construction:

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

Pad Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche

 no blasting.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).

• Following a rain event, all fluids will vacuumed off of the pad and hauled offsite and disposed at a proper disposal facility.

Tank Battery Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche

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

Road Construction:

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

Buried Pipeline/Cable Construction:

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

Powerline Construction:

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

Surface Flowlines Installation:

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

Leak Detection System:

- A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present.
- A leak detection plan will be submitted to BLM that incorporates an automatic shut off system (see below) to minimize the effects of an undesirable event that could negatively sensitive cave/karst resources.

Page 4 of 17

Well heads, pipelines (surface and buried), storage tanks, and all supporting
equipment should be monitored regularly after installation to promptly identify
and fix leaks.

Automatic Shut-off Systems:

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

Cave/Karst Subsurface Mitigation

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

Closed Loop System:

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

Rotary Drilling with Fresh Water:

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

Directional Drilling:

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

Lost Circulation:

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

Abandonment Cementing:

- Additional plugging conditions of approval may be required upon well abandonment in high and medium karst potential occurrence zones.
- The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

• The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice.

Page 5 of 17

• If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Hydrology

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

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

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

Page 6 of 17

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Page 7 of 17

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

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

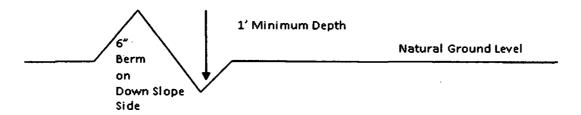
Drainage

Page 8 of 17

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

400 foot road with 4% road slope:
$$\frac{400'}{40'}$$
 + 100' = 200' lead-off ditch interval

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

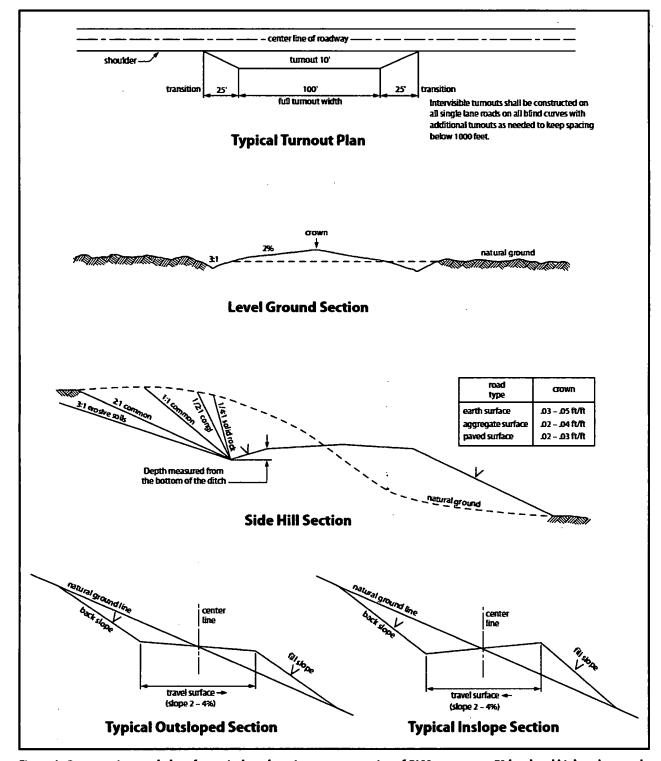


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

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

- 1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without

Page 12 of 17

regard to whether a release is caused by Holder, its agent, or unrelated third parties.

- 4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
 - c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

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

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized right-of-way width of <u>20</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation shall be allowed unless approved in

writing by the Authorized Officer.

- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible

for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

- 16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

Page 15 of 17

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

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

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

Seed Mixture 2, for Sandy Sites

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

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

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

| Species | l <u>b/acre</u> |
|--|-----------------|
| Sand dropseed (Sporobolus cryptandrus) | 1.0 |
| Sand love grass (Eragrostis trichodes) | 1.0 |
| Plains bristlegrass (Setaria macrostachya) | 2.0 |

^{*}Pounds of pure live seed:

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



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

Operator Certification Data Report 04/05/2019

Operator Certification

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

NAME: Bradley Bishop

Signed on: 07/31/2018

Title: Regulatory

Street Address: PO Box 5270

City: Hobbs

State: NM

Zip: 88240

Phone: (575)393-5905

Email address: bbishop@mewbourne.com

Field Representative

| Representative Name: | | |
|----------------------|--------|------|
| Street Address: | | |
| City: | State: | Zip: |
| Phone: | | • |
| Email address: | | |



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

Application Data Report

04/05/2019

APD ID: 10400029533

Submission Date: 07/31/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Type: CONVENTIONAL GAS WELL

Well Number: 1H

Well Work Type: Drill

.

Show Final Text

Section 1 - General

APD ID:

10400029533

Tie to previous NOS?

Submission Date: 07/31/2018

BLM Office: CARLSBAD

User: Bradley Bishop

Title: Regulatory

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM128929

Lease Acres: 760.71

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:

Paduca7_6W1GBFederal1H_operatorletterofdesignation_20180417141533.pdf

Zip: 88240

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: PO Box 5270

Operator City: Hobbs

Operator PO Box:

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: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WOLFCAMP

Pool Name: WC-025-G-08 5263205N UPPER WOLFCAMP

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

Describe other minerals:

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

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: PADUCA 7/6 W1GB FEDERAL Number: 2

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 30 Miles

Distance to nearest well: 50 FT

Distance to lease line: 185 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat:

Paduca7_6W1GBFederal1H_wellplat_20180731111912.pdf

Well work start Date: 07/17/2018

Duration: 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

| | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | DVT |
|------------------|----------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------|-------------------|------------|----------------|---------------|-----------|-----------|
| SHL Leg #1 | 240 0 | FNL | 177 0 | FEL | 26S | 32E | 7 | Aliquot SWNE | 32.05828 96 | - 103.7115 329 | | MEXI | NEW MEXI CO | F | NMNM 128929 | 327 7 | 0 | 0 |
| KOP Leg #1 | 256 3 | FNL | 231 0 | FEL | 26S | 32E | 7 | Aliquot SWNE | 32.05783 82 | - 103.7132 752 | | | NEW MEXI CO | F | NMNM 128929 | - 795 7 | 112 57 | 112 34 |
| PPP Leg #1 | 257 3 | FNL | 231 0 | FEL | 26S | 32E | 7 | Aliquot SWNE | 32.05877 28 | - 103.7132 779 | | | NEW MEXI CO | F | NMNM 128929 | - 848 0 | 119 17 | 117 57 |

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

| | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD |
|-------------------|---------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------------------|-------------------|------------|----------------|---------------|----|-----------|
| EXIT Leg #1 | 100 | FNL | 231 0 | FEL | 26S | 32E | 6 | | 32.07922 88 | - 103.7133 371 | | NEW MEXI CO | NEW MEXI CO | F | NMNM 128929 | - 853 0 | | 118 07 |
| BHL Leg #1 | 100 | FNL | 231 0 | FEL | 26S | 32E | 6 | | 32.07922 88 | - 103.7133 371 | | NEW MEXI CO | NEW MEXI CO | F | NMNM 128929 | - 853 0 | | 118 07 |

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

Statement Accepting Responsibility for Operations

Operator Name:

Mewbourne Oil Company

Street or Box:

P.O. Box 5270

City, State:

Hobbs, New Mexico

Zip Code:

88241

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

Lease Number:

NMNM 128929

Legal Description of Land:

Section 7, T26S, R32E, Lea County, New Mexico.

Location @ 2400 FNL & 1770 FEL

Formation (if applicable):

Wolfcamp

Bond Coverage:

\$150,000

BLM Bond File:

NM1693 nationwide, NMB000919

Authorized Signature:

Name: Bradley Bishop

Title: Regulatory Manager

Enadly C

Date: 4-3-18



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

Drilling Plan Data Report 04/05/2019

APD ID: 10400029533

Submission Date: 07/31/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

| Formation | · : | | True Vertical | Measured | | ·.i : | Producing |
|-----------|-----------------|------------|---------------|----------|---------------------------------|-------------------|-----------|
| ID | Formation Name | Elevation | Depth | Depth | Lithologies | Mineral Resources | |
| 1 | UNKNOWN | 3250 | 27 | 27 | | NONE | No |
| 2 | RUSTLER | 2150 | 1100 | 1100 | DOLOMITE,ANHYDRIT E | USEABLE WATER | No |
| 3 | TOP SALT | 1915 | 1335 | 1335 | SALT | NONE | No |
| 4 | BOTTOM SALT | -895 | 4145 | 4145 | SALT | NONE | No |
| 5 | LAMAR | -1110 | 4360 | 4360 | LIMESTONE | NATURAL GAS,OIL | No |
| 6 | MANZANITA | -2270 | 5520 | 5520 | LIMESTONE | NATURAL GAS,OIL | No |
| 7 | BONE SPRING | -5125 | 8375 | 8375 | LIMESTONE, SHALE | NATURAL GAS, OIL | No |
| 8 | BONE SPRING 1ST | -6130 | 9380 | 9380 | SANDSTONE | NATURAL GAS,OIL | No |
| 9 | BONE SPRING 2ND | -6765 • | 10015 | 10015 | SANDSTONE | NATURAL GAS,OIL | No |
| 10 | BONE SPRING 3RD | -7945 | 11195 | 11195 | SANDSTONE | NATURAL GAS,OIL | No |
| 11 | WOLFCAMP | -8385 | 11635 | 11701 | LIMESTONE, SHALE, SA NDSTONE | NATURAL GAS,OIL | Yes |

Section 2 - Blowout Prevention

Pressure Rating (PSi): 10M

Rating Depth: 19388

Equipment: Annular, Pipe Rams, Blind Rams

Requesting Variance? YES

Variance request: A variance is requested for use of a 5000 psi annular BOP with the 10,000 psi BOP stack. A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead will be used. See attached schematic.

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

Page 1 of 6

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL Well Number: 1H

cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

Paduca_7_6_W1GB_Fed_1H_10M_BOPE_Choke_Diagram_20180727121405.pdf

Paduca_7_6_W1GB_Fed_1H_Flex_Line_Specs_20180727121415.pdf

BOP Diagram Attachment:

Paduca_7_6_W1GB_Fed_1H_10M_BOPE_Schematic_20180727121428.pdf

Paduca_7_6_W1GB_Fed_1H_10M_Multi_Bowl_WH_20180727121438.pdf

Paduca_7_6_W1GB_Fed_1H_10M_Annular_BOP_Variance_20180727121643.pdf

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|--------------------------------|-----------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
| 1 | SURFACE | 17.5 | 13.375 | NEW | API | N | 0 | 1175 | 0 | 1175 | 3277 | 2102 | 1175 | H-40 | 48 | STC | 1.43 | 3.22 | DRY | 5.71 | DRY | 9.59 |
| | INTERMED IATE | 12.2 5 | 9.625 | NEW | API | Υ | 0 | 4285 | 0 | 4285 | 3277 | -1008 | 4285 | J-55 | 36 | LTC | 1.13 | 1.96 | DRY | 2.87 | DRY | 3.58 |
| | PRODUCTI ON | 8.75 | 7.0 | NEW | API | N | 0 | 12157 | 0 | 11807 | 3277 | -8530 | 12157 | P- 110 | 26 | LTC | 1.4 | 1.79 | DRY | 2.04 | ₽RY • | 2.63 |
| 4 | LINER | 6.12 5 | 4.5 | NEW | API | N | 11257 | 19388 | 11234 | 11807 | -7957 | -8530 | 8131 | P- 110 | 13.5 | LTC | 1.34 | 1.55 | DRY | 3.08 | DRY | 3.84 |

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY Well Name: PADUCA 7/6 W1GB FEDERAL Well Number: 1H **Casing Attachments** Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Paduca_7_6_W1GB_Fed_1H_Csg_Assumptions_20180727131718.pdf Casing ID: 2 **String Type: INTERMEDIATE Inspection Document: Spec Document: Tapered String Spec:** Paduca_7_6_W1GB_Fed_1H_Inter_Tapered_String_Diagram_20180727131956.pdf Casing Design Assumptions and Worksheet(s): Paduca_7_6_W1GB_Fed_1H_Csg_Assumptions_20180727131728.pdf Casing ID: 3 **String Type:**PRODUCTION **Inspection Document: Spec Document:**

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Paduca_7_6_W1GB_Fed_1H_Csg_Assumptions_20180727131738.pdf

Page 3 of 6

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL We

Well Number: 1H

Casing Attachments

Casing ID: 4

String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Paduca_7_6_W1GB_Fed_1H_Csg_Assumptions_20180727131747.pdf$

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 | 984 | 350 | 2.12 | 12.5 | 1378 | 100 | Class C | Salt, Gel, Extender, LCM |
| SURFACE : | Tail | | 984 | 1175 | 200 | 1.34 | 14.8 | 268 | 100 | Class C | Retarder : |
| INTERMEDIATE | Lead | | 0 | 3641 | 715 | 2.12 | 12.5 | 1516 | 25 | Class C | Salt, Gel, Extender, LCM |
| INTERMEDIATE | Tail | | 3641 | 4285 | 200 | 1.34 | 14.8 | 268 | 25 | Class C | Retarder |
| PRODUCTION | Lead | 5520 | 4085 | 4838 | 70 | 2.12 | 12.5 | 148 | 25 | Class C | Gel, Retarder, Defoamer, Extender |
| PRODUCTION | Tail | | 4838 | 5520 | 100 | 1.34 | 14.8 | 134 | 25 | Class C | Retarder |
| PRODUCTION | Lead | 5520 | 5520 | 9663 | 370 | 2.12 | 12.5 | 784 | 25 | Class C | Gel, Retarder, Defoamer, Extender |
| PRODUCTION | Tail | | 9663 | 1215 7 | 400 | 1.18 | 15.6 | 472 | 25 | Class H | Retarder, Fluid Loss, Defoamer |
| LINER | Lead | | 1125 7 | 1938 8 | 335 | 2.97 | 11.2 | 995 | 25 | Class C | Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent |

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

Describe the mud monitoring system utilized: 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) | Н | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics | |
|-----------|--------------|--------------------|----------------------|----------------------|---------------------|-----------------------------|---|----------------|----------------|-----------------|----------------------------|--|
| 0 | 1175 | SPUD MUD | 8.6 | 8.8 | | | | | | | - | |
| 1175 | 4285 | SALT SATURATED | 10 | 10 | | | | | | | | |
| 4285 | 1123 4 | WATER-BASED MUD | 8.6 | 9.5 | | | | | | | | |
| 1123 4 | 1180 7 | OIL-BASED MUD | 10 | 13 | | | | | | | | |

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (11,257') to surface.

Will run MWD GR from KOP (11,257') to TD.

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

CNL,DS,GR,MWD,MUDLOG

Coring operation description for the well:

None

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL Well Number: 1H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7982

Anticipated Surface Pressure: 5386

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Paduca_7_6_W1GB_Fed_1H_H2S_Plan_20180727133020.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Paduca_7_6_W1GB_Fed_1H_Dir_Plan_20180727133654.pdf

Paduca_7_6_W1GB_Fed_1H_Dir_Plot_20180727133701.pdf

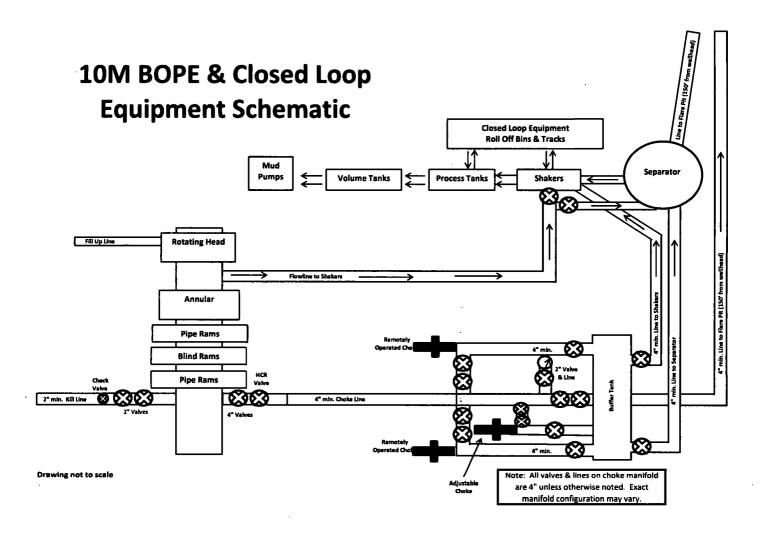
Other proposed operations facets description:

Other proposed operations facets attachment:

Paduca_7_6_W1GB_Fed_1H_Drlg_Program_20180727133714.doc

Paduca_7_6_W1GB_Fed_1H_OCD_Sheet_20180727133726.pdf

Other Variance attachment:





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

PHONE: 361-887-9807

361-887-0812

EMAIL: Tim.Cantu@gates.com

www.gates.com

10Y CEMENTING ACCEMBLY DDECCLIDE TEST CEDITEICATE

| iustomer: | AUSTIN DISTRIBUTING | Test Date: | 4/30/2015 |
|--------------------|---------------------|------------------|------------------------|
| ustomer Ref. : | 4060578 | Hose Serial No.: | D-043015-7 |
| tvoice No. : | 500506 | Created By: | JUSTIN CROPPER |
| ind Fitting 1: | 4 1/16 10K FLG | End Fitting 2 : | 4 1/16 10K FLG |
| ates Part No. : | 4773-6290 | Assembly Code : | L36554102914D-043015-7 |
| Yorking Pressure : | 10,000 PSI | Test Pressure : | 15,000 PSI |
| | | | |

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

Quality Manager:

Date:

Signature:

QUALITY

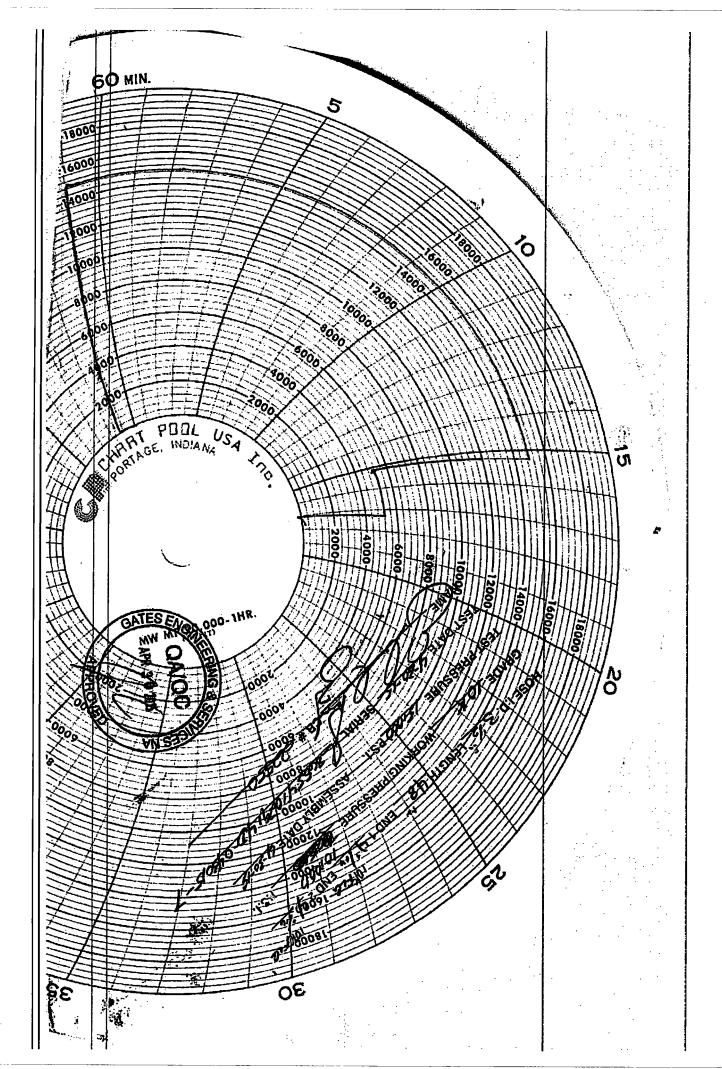
4/30/2015

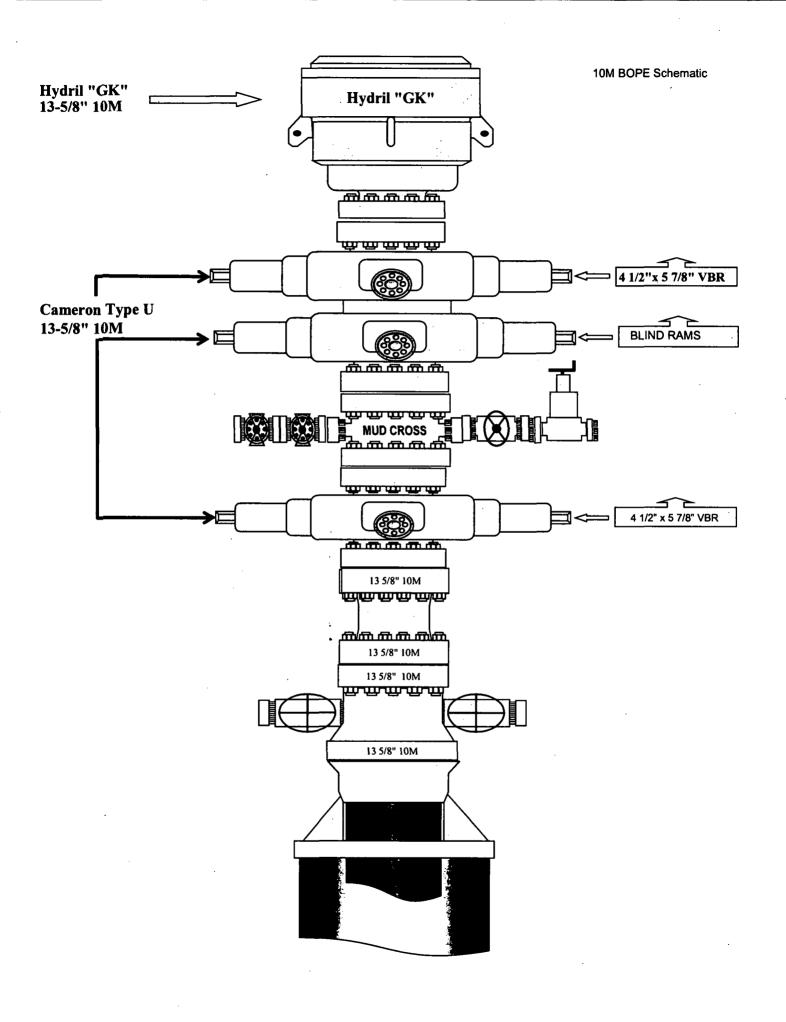
Production: Date:

Signature :

PRODUCTION



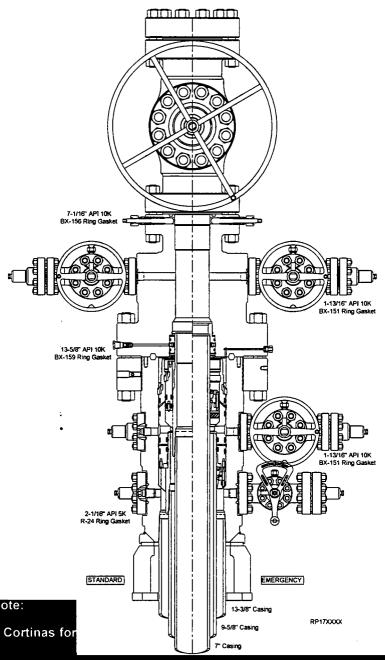




NOTE DRAFT Publication is for Review ONLY. NOT approved for System Installation. NOT approved for field usage. NOT approved for distribution. If you obtain a DRAFT copy - it is your responsibility to verify SAP revision level or contact Houston Engineering to ensure document has been approved and released.

RUNNING PROCEDURE

Mewbourne Oil Co



Publication Status Note:

Draft A sent to John Cortinas for review; RA 04/29/17

Surface Systems Publication



13-5/8" 10K MN-DS System 13-3/8" x 9-5/8" x 7" Casing Program RP-003815 Rev 01 Draft A

10,000 PSI Annular BOP Variance Request

Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

| | 12-1/4" Intermediate Hole Section 10M psi Requirement | | | | | | | | | |
|---------------------|---|-------------------|-----|------------------------|-----|--|--|--|--|--|
| Component | OD | Primary Preventer | RWP | Alternate Preventer(s) | RWP | | | | | |
| Drillpipe | 5.000" or | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | | |
| | 4.500" | | | Lower 3.5"-5.5" VBR | 10M | | | | | |
| HWDP | 5.000" or | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | | |
| | 4.500" | | | Lower 3.5"-5.5" VBR | 10M | | | | | |
| Jars | 6.500" | Annular | 5M | - | - | | | | | |
| DCs and MWD tools | 6.500"-8.000" | Annular | 5M | • | | | | | | |
| Mud Motor | 8.000"-9.625" | Annular | 5M | • | - | | | | | |
| Intermediate Casing | 9.625" | Annular | 5M | <u>.</u> . | - | | | | | |
| Open-Hole | - | Blind Rams | 10M | - | - | | | | | |

| 8-3/4" Production Hole Section 10M psi Requirement | | | | | | | | | |
|--|---------------|-------------------|-----|------------------------|-----|--|--|--|--|
| Component | OD | Primary Preventer | RWP | Alternate Preventer(s) | RWP | | | | |
| Drillpipe | 5.000" or | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | |
| | 4.500" | | | Lower 3.5"-5.5" VBR | 10M | | | | |
| HWDP | 5.000" or | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | |
| | 4.500" | | | Lower 3.5"-5.5" VBR | 10M | | | | |
| Jars | 6.500" | Annular | 5M | - | - | | | | |
| DCs and MWD tools | 6.500"-8.000" | Annular | 5M | - | - | | | | |
| Mud Motor | 6.750"-8.000" | Annular | 5M | - | - | | | | |
| Production Casing | 7" | Annular | 5M | - | - | | | | |
| Open-Hole | - | Blind Rams | 10M | - | - | | | | |

| 6-1/8" Lateral Hole Section 10M psi Requirement | | | | | | | | | |
|--|---------------|-------------------|-----|------------------------|-------|--|--|--|--|
| Component | OD | Primary Preventer | RWP | Alternate Preventer(s) | RWP | | | | |
| Drillpipe | 4.500" | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | |
| | | | | Lower 3.5"-5.5" VBR | . 10M | | | | |
| HWDP | 4.500" | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | |
| | | | | Lower 3.5"-5.5" VBR | 10M | | | | |
| DCs and MWD tools | 4.750"-5.500" | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | |
| | | | | Lower 3.5"-5.5" VBR | 10M | | | | |
| Mud Motor | 4.750"-5.500" | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | |
| | | | | Lower 3.5"-5.5" VBR | 10M | | | | |
| Production Casing | 4.500" | Annular | 5M | Upper 3.5"-5.5" VBR | 10M | | | | |
| _ | | | | Upper 3.5"-5.5" VBR | 10M | | | | |
| Open-Hole | - | Blind Rams | 10M | - | - | | | | |

VBR = Variable Bore Ram

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the Mewbourne Oil Company drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full-opening safety valve & close
- 3. Space out drill string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full-opening safety valve and close
- 3. Space out string
- Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

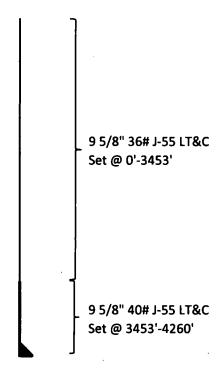
- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams (HCR & choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

- 1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP

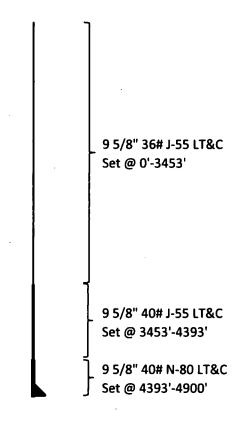
- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

Red Hills West Unit #018H Intermediate Casing



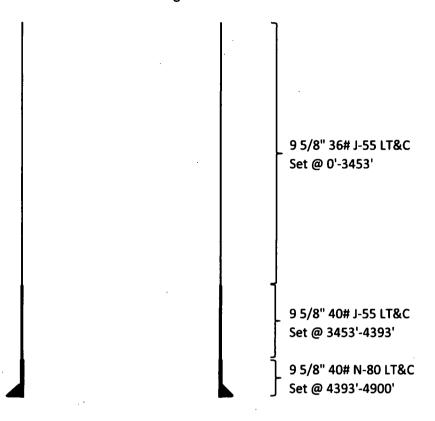
| | SF | SF | SF Jt | SF Body |
|----------|----------|-------|---------|---------|
| Casing | Collapse | Burst | Tension | Tension |
| 36# J-55 | 1.13 | 1.96 | 2.89 | 4.54 |
| 40# J-55 | 1.16 | 1.78 | 16.11 | 19.52 |

Salado Draw 9 W1DM Fed Com #3H Intermediate Casing



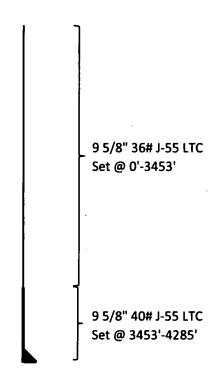
| | SF | SF | SF Jt | SF Body |
|----------|----------|-------|---------|---------|
| Casing | Collapse | Burst | Tension | Tension |
| 36# J-55 | 1.13 | 1.96 | 2.49 | 4.54 |
| 40# J-55 | 1.13 | 1.73 | 8.98 | 16.75 |
| 40# N-80 | 1.21 | 2.26 | 36.35 | 45.18 |

Salado Draw 9/16 W1BO Fed Com #3H Intermediate Casing



| | ŞF | SF | SF Jt | SF Body |
|----------|----------|-------|---------|---------|
| Casing | Collapse | Burst | Tension | Tension |
| 36# J-55 | 1.13 | 1.96 | 2.78 | : 4.54 |
| 40# J-55 | 1.13 | 1.73 | 8.98 | 16.75 |
| 40# N-80 | 1.21 | 2.26 | 36.35 | 45.18 |

Paduca 7/6 W1GB Fed #1H Intermediate Csg



| | SF | SF | SF Jt | SF Body |
|----------|----------|-------|---------|---------|
| Casing | Collapse | Burst | Tension | Tension |
| 36# J-55 | 1.13 | 1.96 | 2.87 | 3.58 |
| 40# J-55 | 1.15 | 1.77 | 15.62 | 18.93 |

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

Casing Program

| Hole | Casing | Interval | Csg. | Weight | Grade | Conn. | SF | SF | SF Jt | SF Body |
|--------|--------|----------|---------|--------|----------|----------|----------|-------|---------|---------|
| Size | From | To | Size | (lbs) | | | Collapse | Burst | Tension | Tension |
| 17.5" | 0' | 1175' | 13.375" | 48 | H40 | STC | 1.43 | 3.22 | 5.71 | 9.59 |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 2.87 | 3.58 |
| 12.25" | 3453' | 4285' | 9.625" | 40 | J55 | LTC | 1.15 | 1.77 | 15.62 | 18.93 |
| 8.75" | 0' | 12157' | 7" | 26 | HCP110 | LTC | 1.40 | 1.79 | 2.04 | 2.63 |
| 6.125" | 11257' | 19388' | 4.5" | 13.5 | P110 | LTC | 1.34 | 1.55 | 3.08 | 3.84 |
| | | | | BL | M Minimu | m Safety | 1.125 | 1 | 1.6 Dry | 1.6 Dry |
| | | | | Factor | | | | | 1.8 Wet | 1.8 Wet |

| | Y or N |
|--|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1 | Y |
| Is casing API approved? If no, attach casing specification sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | N |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y |
| Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? | Y |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | 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? | |

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

Casing Program

| Hole | Casing | Interval | Csg. | Weight | Grade | Conn. | SF | SF | SF Jt | SF Body |
|--------|--------|----------|---------|--------|----------|----------|----------|-------|---------|---------|
| Size | From | To | Size | (lbs) | | | Collapse | Burst | Tension | Tension |
| 17.5" | 0' | 1175' | 13.375" | 48 | H40 | STC | 1.43 | 3.22 | 5.71 | 9.59 |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 2.87 | 3.58 |
| 12.25" | 3453' | 4285' | 9.625" | 40 | J55 | LTC | 1.15 | 1.77 | 15.62 | 18.93 |
| 8.75" | 0' | 12157' | 7" | 26 | HCP110 | LTC | 1.40 | 1.79 | 2.04 | 2.63 |
| 6.125" | 11257' | 19388' | 4.5" | 13.5 | P110 | LTC | 1.34 | 1.55 | 3.08 | 3.84 |
| | | • | | BL | M Minimu | m Safety | 1.125 | 1 | 1.6 Dry | 1.6 Dry |
| | | | | | | Factor | | | 1.8 Wet | 1.8 Wet |

| | 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 | Y |
| justification (loading assumptions, casing design criteria). | |
| Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the | Y |
| collapse pressure rating of the casing? | <u> </u> |
| 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. | ļ ; |
| Is well located in SOPA but not in R-111-P? | Ň |
| 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? | |

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

Casing Program

| Hole | Casing | Casing Interval | | Casing Interval | | Weight | 1 – 1 | Conn. | SF | SF | SF Jt | SF Body |
|--------|--------|-----------------|---------|-----------------|----------|----------|----------|-------|---------|---------|-------|---------|
| Size | From | To | Size | (lbs) | | | Collapse | Burst | Tension | Tension | | |
| 17.5" | 0' | 1175' | 13.375" | 48 | H40 | STC | 1.43 | 3.22 | 5.71 | 9.59 | | |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 2.87 | 3.58 | | |
| 12.25" | 3453' | 4285' | 9.625" | 40 | J55 | LTC | 1.15 | 1.77 | 15.62 | 18.93 | | |
| 8.75" | 0' | 12157' | 7" | 26 | HCP110 | LTC | 1.40 | 1.79 | 2.04 | 2.63 | | |
| 6.125" | 11257' | 19388' | 4.5" | 13.5 | P110 | LTC | 1.34 | 1.55 | 3.08 | 3.84 | | |
| | | | | BL | M Minimu | m Safety | 1.125 | 1 | 1.6 Dry | 1.6 Dry | | |
| | | | | | | Factor | | | 1.8 Wet | 1.8 Wet | | |

| | 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 | Y |
| justification (loading assumptions, casing design criteria). | |
| Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the | Y |
| collapse pressure rating of the casing? | |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back | |
| 500' into previous casing? | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | 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? | |

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

Casing Program

| Hole | Casing | Interval | Csg. | Weight | Grade | Conn. | SF | SF | SF Jt | SF Body |
|--------|--------|----------|---------|--------|----------|----------|----------|-------|---------|---------|
| Size | From | To | Size | (lbs) | | | Collapse | Burst | Tension | Tension |
| 17.5" | 0' | 1175' | 13.375" | 48 | H40 | STC | 1.43 | 3.22 | 5.71 | 9.59 |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 2.87 | 3.58 |
| 12.25" | 3453' | 4285' | 9.625" | 40 | J55 | LTC | 1.15 | 1.77 | 15.62 | 18.93 |
| 8.75" | 0' | 12157' | 7" | 26 | HCP110 | LTC | 1.40 | 1.79 | 2.04 | 2.63 |
| 6.125" | 11257' | 19388' | 4.5" | 13.5 | P110 | LTC | 1.34 | 1.55 | 3.08 | 3.84 |
| | | | | BL | M Minimu | m Safety | 1.125 | 1 | 1.6 Dry | 1.6 Dry |
| | | | | · | | Factor | | | 1.8 Wet | 1.8 Wet |

| | Y or N |
|--|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1 | Y |
| Is casing API approved? If no, attach casing specification sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | N |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y |
| Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? | Y |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | 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? | 1 |

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:

- 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.
- 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. <u>Visual Warning Systems</u>

- 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 Fax | 575-393-5905 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 |

Mewbourne Oil Company

Lea County, New Mexico NAD 83 Paduca 7/6 W1GB Fed #1H Sec 7, T26S, R32E

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

Plan: Design #1

Standard Planning Report

27 July, 2018

Database:

Hobbs

Company:

Mewbourne Oil Company Lea County, New Mexico NAD 83

Project: Site:

Paduca 7/6 W1GB Fed #1H

Well:

Sec 7, T26S, R32E

Wellbore:

BHL: 100' FNL & 2310' FEL (6)

Lea County, New Mexico NAD 83

Design:

Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: **Survey Calculation Method:** Site Paduca 7/6 W1GB Fed #1H

WELL @ 3277.0usft (Original Well Elev) WELL @ 3277.0usft (Original Well Elev)

Minimum Curvature

Project

Map System:

US State Plane 1983

Geo Datum:

North American Datum 1983

Map Zone:

New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

From:

Well

Paduca 7/6 W1GB Fed #1H

Site Position:

Мар

Northing:

385,498.00 usft

Latitude:

Longitude:

32.0582887

0.33 9

Position Uncertainty:

Easting: Slot Radius: 733,968.00 usft 13-3/16 "

Grid Convergence:

-103.7115324

Sec 7, T26S, R32E

Well Position

+N/-S

0.0 usft

0.0 usft

Northing:

385,498.00 usft 733,968.00 usft

6.76

Latitude: Longitude: 32.0582887

Position Uncertainty

+E/-W

0.0 usft 0.0 usft Easting:

3,277.0 usft Wellhead Elevation:

Ground Level:

-103.7115324 3,250.0 usft

Wellbore

BHL: 100' FNL & 2310' FEL (6)

IGRF2010

Magnetics

Model Name

Sample Date

7/27/2018

Declination (°)

Dip Angle (°)

Field Strength

(nT)

47,793

Design

Design #1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

59.83

Vertical Section:

Depth From (TVD)

+N/-S

+E/-W (usft)

Direction

(usft) 0.0

(usft) 0.0

0.0

(°) 355.48

| lan Sections | · | | | | | | | | | <u> </u> |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-------------------------|-------------------------------|------------------------------|-----------------------------|------------|---------------------|
| 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 | |
| 4,360.0 | 0.00 | 0.00 | 4,360.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,603.2 | 4.86 | 252.79 | 4,602.9 | -3.1 | -9.9 | 2.00 | 2.00 | 0.00 | 252.79 | |
| 11,014.5 | 4.86 | 252.79 | 10,991.1 | -163.9 | -529.1 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 11,257.7 | 0.00 | 0.00 | 11,234.0 | -167.0 | -539.0 | 2.00 | -2.00 | 0.00 | 180.00 | KOP @ 11234' |
| 12,157.7 | 90.00 | 359.53 | 11,807.0 | 406.0 | -543.7 | 10.00 | 10.00 | 0.00 | -0.47 | |
| 19,388,0 | 90.00 | 359,53 | 11,807,0 | 7,636,0 | -603.0 | 0.00 | 0.00 | 0.00 | 0.00 | BHL: 100' FNL & 231 |

Database:

Hobbs

Company: Project: Mewbourne Oil Company Lea County, New Mexico NAD 83

Site:

Paduca 7/6 W1GB Fed #1H

Well: Wellbore: Sec 7, T26S, R32E

Design:

BHL: 100' FNL & 2310' FEL (6) Design #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site Paduca 7/6 W1GB Fed #1H

WELL @ 3277.0usft (Original Well Elev) WELL @ 3277.0usft (Original Well Elev)

Grid

| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Vertical Section | Dogleg Rate | Build Rate | Turn Rate |
|--------------------|-------------------|------------------|--------------------|----------------|----------------|---------------------|----------------|---------------|--------------|
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| SL: 100' FNL | . & 1770' FEL (7) | | | | | | | | |
| 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 2,900.0 | 0.00 0.00 | 0.00 0.00 | 2,800.0 2,900.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.00 0.00 | 0.00 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 3,300.0 | 0.00 0.00 | 0.00 0.00 | 3,200.0 3,300.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.00 0.00 | 0.00 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 3,700.0 | 0.00 0.00 | 0.00 0.00 | 3,600.0 3,700.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 4,000.0 4,100.0 | 0.00 0.00 | 0.00 0.00 | 4,000.0 4,100.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 0.00 | 0.00 | 4,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 0.00 | 0.00 | 4,360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 4,400.0 4,500.0 | 0.80 2.80 | 252.79 252.79 | 4,400.0 4,499.9 | -0.1 -1.0 | -0.3 -3.3 | -0.1 -0.8 | 2.00 2.00 | 2,00 2.00 | 0.00 0.00 |
| 4,500.0 4,600.0 | 2.80 4.80 | 252.79 252.79 | 4,499.9 4,599.7 | -1.0 -3.0 | -3.3 -9.6 | -0.8 -2.2 | 2.00 | 2.00 | 0.00 |
| 4,603.2 | 4.86 | 252.79 252.79 | 4,599.7 4,602.9 | -3.0 -3.1 | -9.0 -9.9 | -2.2 -2.3 | 2.00 | 2.00 | 0.00 |
| 4,700.0 | 4.86 | 252.79 252.79 | 4,692.9 | -5.1 -5.5 | -9.9 -17.7 | -2.3 -4.1 | 0.00 | 0.00 | 0.00 |
| · | | | | | | | | | |
| 4,800.0 4,900.0 | 4.86 4.86 | 252.79 252.79 | 4,799.0 4,898.6 | -8.0 -10.5 | -25.8 -33.9 | -5.9 -7.8 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 5,000.0 | 4.86 | 252.79 252.79 | 4,998.3 | -10.5 -13.0 | -33.9 -42.0 | -7.8 -9.7 | 0.00 | 0.00 | 0.00 |

Database:

Hobbs

Company:

Mewbourne Oil Company Lea County, New Mexico NAD 83 Paduca 7/6 W1GB Fed #1H

Project: Site: Well:

Sec 7, T26S, R32E

Wellbore:

BHL: 100' FNL & 2310' FEL (6)

Design:

Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Site Paduca 7/6 W1GB Fed #1H

WELL @ 3277.0usft (Original Well Elev) WELL @ 3277.0usft (Original Well Elev)

Grid

| I | | _ | |
|------|------|-------|---|
| Plan | boar | Cum | - |
| FIGI | mou | OUI 4 | |

| | | | 16-41I | | | Madaal | Danlan | D. 0.4 | T |
|--------------------|--------------------|------------------------------|--------------------|------------------|--------------------|---------------------|----------------|---------------|--------------|
| Measured Depth | Inclination | A =lma +4- | Vertical Depth | AN/ C | +E/34 | Vertical Section | Dogleg Rate | Build Rate | Turn Rate |
| (usft) | Inclination (°) | Azimuth (°) | (usft) | +N/-S (usft) | +E/-W (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 5,100.0 | 4.86 | 252.79 | 5,097.9 | -15.5 | -50.1 | -11.5 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 4.86 | 252.79 | 5,197.6 | -18.0 | -58.2 | -13.4 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 4.86 | 252.79 | 5,297.2 | -20.5 | -66.3 | -15.3 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 4.86 | 252.79 | 5,396.8 | -23.0 | -74.4 | -17.1 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 4.86 | 252.79 | 5,496.5 | -25.6 | -82.5 | -19.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 4.86 | 252.79 | 5,596.1 | -28.1 | -90.6 | -20.8 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 4.86 | 252.79 | 5,695.8 | -30.6 | -98.7 | -22.7 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 4.86 | 252.79 | 5,795.4 | -33.1 | -106.8 | -24.6 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 4.86 | 252.79 | 5,895.0 | -35.6 | -114.9 | -26.4 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 4.86 | 252.79 | 5,994.7 | -38.1 | -123.0 | -28.3 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 4.86 | 252.79 | 6,094.3 | -40.6 | -131.1 | -30.2 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 4.86 | 252.79 | 6,194.0 | -43.1 | -139.2 | -32.0 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 4.86 | 252.79 | 6,293.6 | -45.6 | -147.3 | -33.9 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 4.86 | 252.79 | 6,393.2 | -48.1 | -155.4 | -35.8 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 4.86 | 252.79 | 6,492.9 | -50.7 | -163.5 | -37.6 | 0.00 | 0.00 | 0.00 |
| 6,600.0 6,700.0 | 4.86 4.86 | 252.79 252.79 | 6,592.5 6,692.2 | -53.2 -55.7 | -171.6 -179.7 | -39.5 -41.4 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| • | | | | | | | | | |
| 6,800.0 | 4.86 | 252.79 | 6,791.8 | -58.2 | -187.8 | -43.2 | 0.00 | 0.00 | 0.00 |
| 6,900.0 7,000.0 | 4.86 4.86 | 252.79 252.79 | 6,891.4 6,991.1 | -60.7 -63.2 | -195.9 -204.0 | -45.1 -46.9 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 7,100.0 | 4.86 | 252.79 | 7,090.7 | -65.7 | -204.0 -212.1 | -48.8 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 4.86 | 252.79 | 7,090.7 7,190.4 | -68.2 | -212.1 | -50.7 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 7,300.0 | 4.86 | 252.79 | 7,290.0 | -70.7 70.2 | -228.3 | -52.5 | 0.00 | 0.00 | 0.00 |
| 7,400.0 7,500.0 | 4.86 4.86 | 252.79 252.79 | 7,389.6 7,489.3 | -73.2 -75.7 | -236.4 -244.5 | -54.4 -56.3 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 7,600.0 | 4.86 | 252.79 | 7,588.9 | -73.7 -78.3 | -252.6 | -58.1 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 4.86 | 252.79 | 7,688.6 | -80.8 | -260.7 | -60.0 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 4.86 | 252,79 | 7,788.2 | -83.3 | -268.8 | -61.9 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 4.86 | 252.79 | 7,887.8 | -85.8 | -276.9 | -63.7 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 4.86 | 252.79 | 7,987.5 | -88.3 | -285.0 | -65.6 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 4.86 | 252.79 | 8,087.1 | -90.8 | -293.1 | -67.5 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 4.86 | 252.79 | 8,186.8 | -93.3 | -301.2 | -69.3 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 4.86 | 252,79 | 8,286.4 | -95.8 | -309.3 | -71.2 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 4,86 | 252.79 | 8,386.0 | -98.3 | -317.4 | -73.0 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 4.86 | 252.79 | 8,485.7 | -100.8 | -325.5 | -74.9 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 4.86 | 252.79 | 8,585.3 | -103.4 | -333.6 | -76.8 78.6 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 4.86 | 252.79 | 8,685.0 | -105.9 | -341.7 | -78.6 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 4.86 | 252.79 | 8,784.6 | -108.4 | -349.8 | -80.5 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 4.86 | 252.79 | 8,884.2 | -110.9 | -357.9 | -82.4 | 0.00 | 0.00 | 0.00 |
| 9,000.0 B 100.0 | 4.86 4.86 | 252.79 252.79 | 8,983.9 9,083.5 | -113.4 -115.9 | -366,0 -374,1 | -84.2 -86.1 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 9,100.0 9,200.0 | 4.86 4.86 | 252.79 252.79 | 9,083.5 9,183.2 | -115.9 -118.4 | -3/4.1 -382.2 | -86.1 -88.0 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 4.86 | 252.79 | 9,282.8 | -120.9 | -390.3 | -89.8 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 4.86 | 252.7 9 252.79 | 9,382.4 | -120.9 | -398.4 | -09.6 -91.7 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 4.86 | 252.79 | 9,482.1 | -125.4 | -406,5 | -93.6 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 4.86 | 252.79 | 9,581.7 | -128.4 | -4 14.6 | -95.4 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 4.86 | 252.79 | 9,681.4 | -131.0 | -422.7 | -97.3 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 4.86 | 252.79 | 9,781.0 | -133.5 | -430.8 | -99.1 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 4.86 | 252.79 | 9,880.6 | -136.0 | -438.9 | -101.0 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 4.86 | 252.79 | 9,980.3 | -138.5 | -447.0 | -102.9 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 4.86 | 252.79 | 10,079.9 | -141.0 | -455.1 | -104.7 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 4.86 | 252.79 | 10,179.6 | -143.5 | -463.2 | -106.6 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 4.86 | 252.79 | 10,279.2 | -146.0 | -471.3 | -108.5 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 4.86 | 252.79 | 10,378.8 | -148.5 | -479.4 | -110.3 | 0.00 | 0.00 | 0,00 |

Database:

Hobbs

Company:

Mewbourne Oil Company

Project: Site: Lea County, New Mexico NAD 83 Paduca 7/6 W1GB Fed #1H

Well: Wellbore: Sec 7, T26S, R32E

BHL: 100' FNL & 2310' FEL (6)

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Site Paduca 7/6 W1GB Fed #1H

WELL @ 3277.0usft (Original Well Elev) WELL @ 3277.0usft (Original Well Elev)

Grid

| sign: | Design #1 | | | | | | | | |
|----------------------|------------------|------------------|----------------------|--------------------|------------------|---------------|--------------|--------------|-------------|
| anned Survey | | | | | | | | | |
| Measured | | | Vertical | | | Vertical | Dogleg | Build | Turn |
| Depth | Inclination | Azimuth | Depth | +N/-S | +E/-W | Section | Rate | Rate | Rate |
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| (===, | \ , | `` | (22.5) | (0010) | (uoit) | (| (| (| (|
| 10,500.0 | 4.86 | 252.79 | 10,478.5 | -151.0 | -487.5 | -112.2 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 4.86 | 252.79 | 10,578.1 | -153.5 | -495.6 | -114.1 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 4.86 | 252.79 | 10,677.7 | -156.1 | -503.7 | -115.9 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 4.86 | 252.79 | 10,777.4 | -158.6 | -511.8 | -117.8 | 0.00 | 0.00 | 0.00 |
| | | 252.79 252.79 | • | | | | 0.00 | 0.00 | 0.00 |
| 10,900.0 | | 252.79 252.79 | 10,877.0 | -161.1 -163.6 | -519.9 | -119.6 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | | | 10,976.7 | | -528.0 | -121.5 | 0.00 | 0.00 | 0.00 |
| 11,014.5 | | 252.79 | 10,991.1 | -163.9 | -529.1 | -121.8 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 3.15 | 252.79 | 11,076.4 | -165.7 | -534.9 | -123.1 | 2.00 | -2.00 | 0.00 |
| 11,200.0 | 1.15 | 252.79 | 11,176.3 | -166.8 | -538.4 | -123.9 | 2.00 | -2.00 | 0.00 |
| 11,257.7 | | 0.00 | 11,234.0 | -167.0 | -539.0 | -124.1 | 2.00 | -2.00 | 0.00 |
| KOP @ 112 | | | , | | | | | | **** |
| 11,300.0 | | 359.53 | 11,276.3 | -165.4 | -539.0 | -122.5 | 10.00 | 10.00 | 0.00 |
| 11,400.0 | | 359.53 | 11,374.9 | -149.4 | -539.0 -539.1 | | 10.00 | | |
| • | | | • | | | -106.5 | | 10.00 | 0.00 |
| 11,500.0 | 24.23 | 359.53 | 11,469.2 | -116.5 | -539.4 | -73 .7 | 10,00 | 10.00 | 0.00 |
| 11,600.0 | 34.23 | 359.53 | 11,556.3 | -67.8 | -539.8 | -25.0 | 10.00 | 10.00 | 0.00 |
| 11,700.0 | | 359.53 | 11,633.7 | -4.6 | -540.3 | 38.0 | 10.00 | 10.00 | 0.00 |
| 11,800.0 | | 359.53 | 11,698.9 | 71.0 | -541.0 | 113.4 | 10.00 | 10.00 | 0.00 |
| 11,900.0 | | 359.53 | 11,750.0 | 156.9 | -541.7 | 199.0 | 10.00 | 10.00 | 0.00 |
| 11,917.8 | | 359.53 | 11,757.5 | 173.0 | -541.8 | 215.1 | 10.00 | 10.00 | 0.00 |
| • | FNL & 2310' FEL | | 11,701.0 | 110.0 | 571.5 | 210.1 | 10.00 | 10.00 | 0.00 |
| F1F. 20/3 | FRE & 2310 FEE | (1) | • | | | | | | |
| 12,000.0 | 74.23 | 359.53 | 11,785.4 | 250.2 | -542.4 | 292.2 | 10.00 | 10.00 | 0.00 |
| 12,100.0 | 84.23 | 359.53 | 11,804.1 | 348.3 | -543.2 | 390.0 | 10.00 | 10.00 | 0.00 |
| 12,157.7 | | 359.53 | 11.807.0 | 406.0 | -543.7 | 447.5 | 10.00 | 10,00 | 0.00 |
| • | NL & 2310' FEL (| | , | | | | | | |
| 12,200.0 | • | 359.53 | 11,807.0 | 448.2 | -544.0 | 489.7 | 0.00 | 0.00 | 0.00 |
| · | | 359.53 359.53 | | 548.2 | | | 0.00 | | |
| 12,300.0 | 90.00 | 338.33 | 11,807.0 | 540.2 | -544.9 | 589.4 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 359.53 | : 11,807.0 | 648.2 | -545.7 | 689.2 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 359.53 | 11,807.0 | 748.2 | -546.5 | 788.9 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90,00 | 359,53 | 11,807.0 | 848.2 | -547.3 | 888.7 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 359.53 | 11,807.0 | 948.2 | -548.1 | 988.4 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | | 359,53 | 11,807.0 | 1,048.2 | -549.0 | 1,088.2 | 0.00 | 0.00 | 0.00 |
| • | | | • | | | | | | |
| 12,900.0 | | 359.53 | 11,807.0 | 1,148.2 | -549.8 | 1,187.9 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | | 359.53 | 11,807.0 | 1,248.2 | -550.6 | 1,287.7 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | | 359.53 | 11,807.0 | 1,348.2 | -551.4 | 1,387.4 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | | 359.53 | 11,807.0 | 1,448.2 | -552.2 | 1,487.2 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 359.53 | 11,807.0 | 1,548.2 | -553.1 | 1,586.9 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 359.53 | 11,807.0 | 1,648.2 | -553.9 | 1,686.7 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | | 359.53 | 11,807.0 | 1,748.2 | -554.7 | 1,786.4 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | | 359.53 | 11,807.0 | 1,848.2 | -555.5 | 1,886.2 | 0.00 | 0.00 | 0.00 |
| | | 359.53 | | 4 0 4 0 0 | -556.3 | 4.005.0 | | | 0.00 |
| 13,700.0 13,800.0 | | 359.53 359.53 | 11,807.0 11,807.0 | 1,948.2 2,048.2 | -556.3 -557.2 | 1,985.9 | 0.00 0.00 | 0.00 0.00 | 0.00 |
| 13,800.0 | | | | 2,048.2 | | 2,085.7 | | | |
| 13,900.0 | 90.00 | 359.53 | 11,807.0 | 2,148.2 | -558.0 | 2,185.4 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 359.53 | 11,807.0 | 2,248.2 | -558.8 | 2,285.2 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 359.53 | 11,807.0 | 2,348.2 | -559.6 | 2,384.9 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | | 359.53 | 11,807.0 | 2,448.2 | -560.4 | 2,484.7 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | | 359.53 | 11,807.0 | 2,548.2 | -561.3 | 2,584.4 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 14,400.0 | | 359.53 | 11,807.0 | 2,648.2 | -562.1 | 2,684.2 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | | 359.53 | 11,807.0 | 2,748.2 | -562.9 | 2,783.9 | 0.00 | 0.00 • | 0.00 |
| 14,600.0 | 90.00 | 359.53 | 11,807.0 | 2,848.2 | -563.7 | 2,883.7 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 359.53 | 11,807.0 | 2,948.2 | -564.6 | 2,983.4 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | | 359.53 | 11,807.0 | 3,048.2 | -565.4 | 3,083.2 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 14,900.0 | | 359.53 | 11,807.0 | 3,148.1 | -566.2 | 3,182.9 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 359.53 | 11,807.0 | 3,248.1 | -567.0 | 3 282.7 | 0.00 | 0.00 | 0.00 |

Database:

Hobbs

Company:

Mewbourne Oil Company

Project: Site:

Lea County, New Mexico NAD 83 Paduca 7/6 W1GB Fed #1H

Well:

Sec 7, T26S, R32E

Wellbore: Design:

BHL: 100' FNL & 2310' FEL (6)

Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: **Survey Calculation Method:** Site Paduca 7/6 W1GB Fed #1H

WELL @ 3277.0usft (Original Well Elev) WELL @ 3277.0usft (Original Well Elev)

Grid

| Planned | Survey |
|---------|---------|
| | Measure |

| 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) |
|-----------------------------|--------------------|----------------|-----------------------------|----------------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 15,100.0 | 90.00 | 359.53 | 11,807.0 | 3,348.1 | -567.8 | 3,382.5 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 359.53 | 11,807.0 | 3,448.1 | -568.7 | 3,482.2 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 359.53 | 11,807.0 | 3,548.1 | -569.5 | 3,582.0 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 359.53 | 11,807.0 | 3,648.1 | -570.3 | 3,681.7 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 359.53 | 11,807.0 | 3,748.1 | -571.1 | 3,781.5 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 359.53 | 11,807.0 | 3,848.1 | -571.9 | 3,881.2 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 359.53 | 11,807.0 | 3,948.1 | -572.8 | 3,981.0 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 359.53 | 11,807.0 | 4,048.1 | -573.6 | 4,080.7 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 359.53 | 11,807.0 | 4,148.1 | -574.4 | 4,180.5 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 359.53 | 11,807.0 | 4,248.1 | -575.2 | 4,280.2 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 359.53 | 11,807.0 | 4,348.1 | -576.0 | 4,380.0 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 359.53 | 11,807.0 | 4,448.1 | -576.9 | 4,479.7 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 359.53 | 11,807.0 | 4,548.1 | -577.7 | 4,579.5 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 359.53 | 11,807.0 | 4,648.1 | -578.5 | 4,679.2 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 359.53 | 11,807.0 | 4,748.1 | -579.3 | 4,779.0 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 359.53 | 11,807.0 | 4,848.1 | -580.1 | 4,878.7 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 359.53 | 11,807.0 | 4,948.1 | -581.0 | 4,978.5 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 359.53 | 11,807.0 | 5,048.1 | -581.8 | 5,078.2 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 359.53 | 11,807.0 | 5,148.1 | -582.6 | 5,178.0 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 359.53 | 11,807.0 | 5,248.1 | -583.4 | 5,277.7 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 359.53 | 11,807.0 | 5,348.1 | -584.2 | 5,377.5 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 359.53 | 11,807.0 | 5,448.1 | -585.1 | 5,477.2 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 359.53 | 11,807.0 | 5,548.1 | -585.9 | 5,577.0 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 359.53 | 11,807.0 | 5,648.1 | -586.7 | 5,676.7 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 359.53 | 11,807.0 | 5,748.1 _. | -587.5 | 5,776.5 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 90.00 | 359.53 | 11,807.0 | 5,848.1 | -588.3 | 5,876.2 | 0.00 | 0.00 | 0.00 |
| 17,700.0 | 90.00 | 359.53 | 11,807.0 | 5,948.1 | -589.2 | 5,976.0 | 0.00 | 0.00 | 0.00 |
| 17,800.0 | 90.00 | 359.53 | 11,807.0 | 6,048.0 | -590.0 | 6,075.7 | 0.00 | 0.00 | 0.00 |
| 17,900.0 | 90.00 | 359.53 | 11,807.0 | 6,148.0 | -590.8 | 6,175.5 | 0.00 | 0.00 | 0.00 |
| 18,000.0 | 90.00 | 359.53 | 11,807.0 | 6,248.0 | -591.6 | 6,275.2 | 0.00 | 0.00 | 0.00 |
| 18,100.0 | 90.00 | 359.53 | 11,807.0 | 6,348.0 | -592.4 | 6,375.0 | 0.00 | 0.00 | 0.00 |
| 18,200.0 | 90.00 | 359.53 | 11,807.0 | 6,448.0 | -593.3 | 6,474.7 | 0.00 | 0.00 | 0.00 |
| 18,300.0 | 90.00 | 359.53 | 11,807.0 | 6,548.0 | -594.1 | 6,574.5 | 0.00 | 0.00 | 0.00 |
| 18,400.0 | 90.00 | 359.53 | 11,807.0 | 6,648.0 | -594.9 | 6,674.2 | 0.00 | 0.00 | 0.00 |
| 18,500.0 | 90.00 | 359.53 | 11,807.0 | 6,748.0 | -595.7 | 6,774.0 | 0.00 | 0.00 | 0.00 |
| 18,600.0 | 90.00 | 359.53 | 11,807.0 | 6,848.0 | -596.5 | 6,873.7 | 0.00 | . 0.00 | 0.00 |
| 18,700.0 | 90.00 | 359.53 | 11,807.0 | 6,948.0 | -597.4 | 6,973.5 | 0.00 | 0.00 | 0.00 |
| 18,800.0 | 90.00 | 359.53 | 11,807.0 | 7,048.0 | -598.2 | 7,073.2 | 0.00 | 0.00 | 0.00 |
| 18,900.0 | 90.00 | 359.53 | 11,807.0 | 7,148.0 | -599.0 | 7,173.0 | 0.00 | 0.00 | 0.00 |
| 19,000.0 | 90.00 | 359.53 | 11,807.0 | 7,248.0 | -599.8 | 7,272.7 | 0.00 | 0.00 | 0.00 |
| 19,100.0 | 90.00 | 359.53 | 11,807.0 | 7,348.0 | -600.6 | 7,372.5 | 0.00 | 0.00 | 0.00 |
| 19,200.0 | 90.00 | 359.53 | 11,807.0 | 7,448.0 | -601.5 | 7,472.2 | 0.00 | 0.00 | 0.00 |
| 19,300.0 | 90.00 | 359.53 | 11,807.0 | 7,548.0 | -602.3 | 7,572.0 | 0.00 | 0.00 | 0.00 |
| 19,388.0 | 90.00 | 359.53 | 11,807.0 | 7,636.0 | -603.0 | 7,659.8 | 0.00 | 0.00 | 0.00 |

Database:

Hobbs

Company:

Mewbourne Oil Company

Project: Site: Lea County, New Mexico NAD 83 Paduca 7/6 W1GB Fed #1H

Well:

Sec 7, T26S, R32E

Wellbore:

BHL: 100' FNL & 2310' FEL (6)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

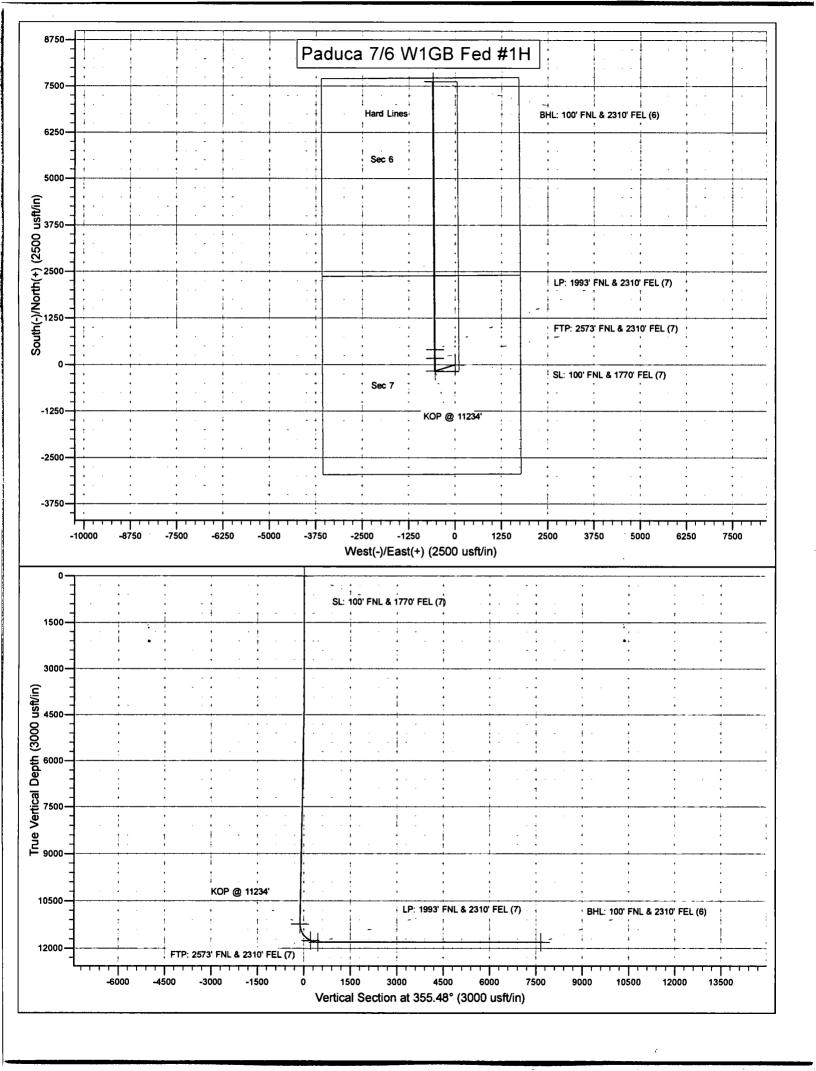
North Reference: Survey Calculation Method: Site Paduca 7/6 W1GB Fed #1H

WELL @ 3277.0usft (Original Well Elev)

WELL @ 3277.0usft (Original Well Elev)

Grid

| Design Targets | | | | | | | | | |
|---|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------|--------------|
| Target Name - hit/miss target - Shape | Oip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| SL: 100' FNL & 1770' FE - plan hits target center - Point | 0.00 | 0.01 | 0.0 | 0.0 | 0.0 | 385,498.00 | 733,968.00 | 32.0582887 | -103.7115324 |
| KOP @ 11234' - plan hits target center - Point | 0.00 | 0.00 | 11,234.0 | -167.0 | -539.0 | 385,331.00 | 733,429.00 | 32.0578382 | -103.7132752 |
| FTP: 2573' FNL & 2310' - plan hits target center - Point | 0.00 | 0.00 | 11,757.5 | 173.0 | -541.8 | 385,671.00 | 733,426.21 | 32.0587728 | -103.7132779 |
| BHL: 100' FNL & 2310' F - plan hits target center - Point | 0.00 | 0.00 | 11,807.0 | 7,636.0 | -603.0 | 393,134.00 | 733,365.00 | 32.0792882 | -103.7133371 |
| LP: 1993' FNL & 2310' F - plan hits target center - Point | 0.00 | 0.00 | 11,807.0 | 406.0 | -543.7 | 385,903.98 | 733,424.30 | 32.0594132 | -103.7132798 |



SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

1. Geologic Formations

| TVD of target | 11807' | Pilot hole depth | NA |
|---------------|--------|-------------------------------|------|
| MD at TD: | 19388' | Deepest expected fresh water: | 275' |

Basin

| Formation | Depth (TVD) | Water/Mineral Bearing/ | Hazards* |
|----------------------------------|-------------|------------------------|----------|
| | from KB | Target Zone? | |
| Quaternary Fill | Surface | | |
| Rustler | 1100 | | |
| Top Salt | 1335 | | |
| Base Salt | 4145 | | |
| Yates | | Oil/Gas | |
| Seven Rivers | | Oil/Gas | |
| Queen | | Oil/Gas | |
| Grayburg | | | |
| Delaware | 4360 | Oil/Gas | |
| Bell Canyon | | Oil/Gas | |
| Cherry Canyon | | Oil/Gas | |
| Manzanita Marker | 5520 | | |
| Basal Brushy | 8165 | Oil/Gas | |
| Bone Spring | 8375 | Oil/Gas | |
| 1 st Bone Spring Sand | 9380 | Oil/Gas | |
| 2 nd Bone Spring Sand | 10015 | Oil/Gas | • |
| 3rd Bone Spring Sand | 11195 | Oil/Gas | • |
| Abo | | | |
| Wolfcamp | 11635 | Target Zone | |
| Devonian | | | |
| Fusselman | | | |
| Ellenburger | | | |
| Granite Wash | | | |

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

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

2. Casing Program

| Hole | Casing | Interval | Csg. | Weight | Grade | Conn. | SF | SF | SF Jt | SF Body |
|--------|---------|-----------|----------|--------|---------|---------|----------|-------|---------|---------|
| Size | From | To | Size | (lbs) | | | Collapse | Burst | Tension | Tension |
| 17.5" | 0' | 1175' | 13.375" | 48 | H40 | STC | 1.43 | 3.22 | 5.71 | 9.59 |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 2.87 | 3.58 |
| 12.25" | 3453' | 4285' | 9.625" | 40 | J55 | LTC | 1.15 | 1.77 | 15.62 | 18.93 |
| 8.75" | 0' | 12157' | 7" | 26 | HCP110 | LTC | 1.40 | 1.79 | 2.04 | 2.63 |
| 6.125" | 11257' | 19388' | 4.5" | 13.5 | P110 | LTC | 1.34 | 1.55 | 3.08 | 3.84 |
| B | LM Mini | mum Safet | ty 1.125 | 1 | 1.6 Dry | y 1.6 D | ry | | | |
| | | Facto | or | | 1.8 We | t 1.8 V | Vet | | | |

| | Y or N |
|--|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1 | Y |
| Is casing API approved? If no, attach casing specification sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | N |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y |
| Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? | Y |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | 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? | 1 |

Mewbourne Oil Company, Paduca 7/6 W1GB Fed #1H

Sec 7, T26S, R32E

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

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

3. Cementing Program

| Casing | # Sks | Wt. | Yld | H ₂ 0 | - 500# | Slurry Description |
|--------|-------|------|------|------------------|----------|--|
| · | | lb/ | ft3/ | gal/ | Comp. | |
| | | gal | sack | sk | Strength | |
| | | | | | (hours) | |
| Surf. | 650 | 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. | 715 | 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. | 370 | 12.5 | 2.12 | 11 | 9 | Lead: Class C + Gel + Retarder + Defoamer + |
| Stg 1 | | | | | | Extender |
| | 400 | 15.6 | 1.18 | 5.2 | 10 | Tail: Class H + Retarder + Fluid Loss + Defoamer |
| | | | | | ECP/DV T | 'ool @ 5520' |
| Prod. | 70 | 12.5 | 2.12 | 11 | 9 | Lead: Class C + Gel + Retarder + Defoamer + |
| Stg 2 | | | | | | Extender |
| | 100 | 14.8 | 1.34 | 6.3 | 8 | Tail: Class C + Retarder |
| Liner | 335 | 11.2 | 2.97 | 18 | 16 | Class C + Salt + Gel + Fluid Loss + Retarder + |
| | | | | | | Dispersant + Defoamer + Anti-Settling Agent |

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

| Casing String | TOC | % Excess | |
|---------------|--------|----------|--|
| Surface | 0' | 100% | |
| Intermediate | 0' | 25% | |
| Production | 4085' | 25% | |
| Liner | 11257' | 25% | |

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

4. Pressure Control Equipment

Variance: 5M Annular

| BOP installed and tested before drilling which hole? | Size? | System Rated WP | Туре | | 1 | Tested to: |
|---|---------|-----------------------|--------|------------|---|------------|
| | | | A | nnular | X | 5000# |
| | | | Bli | Blind Ram | | |
| 12 1/4" | 13 5/8" | 10M | Pip | Pipe Ram | | 10000# |
| | | | Dou | Double Ram | | 10000# |
| | | | 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, Paduca 7/6 W1GB Fed #1H Sec 7, T26S, R32E

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

| 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

| | Depth | Туре | Weight (ppg) | Viscosity | Water Loss | |
|--------|--------|-----------------|--------------|-----------|------------|--|
| From | To | | | | | |
| 0' | 1175' | FW Gel | 8.6-8.8 | 28-34 | N/C | |
| 1175' | 4285' | Saturated Brine | 10.0 | 28-34 | N/C | |
| 4285' | 11234' | Cut Brine | 8.6-9.5 | 28-34 | N/C | |
| 11234' | 11807' | OBM | 10.0-13.0 | 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 | Pason/PVT/Visual Monitoring |
|---|-----------------------------|
| of fluid? | |

6. Logging and Testing Procedures

| Logg | Logging, Coring and Testing. | | | | | | |
|------|---|--|--|--|--|--|--|
| X | Will run GR/CNL from KOP (11257') 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 | | | | | | |

| Add | litional logs planned | Interval |
|-------------|-----------------------|--------------------|
| X Gamma Ray | | 11257' (KOP) to TD |
| | Density | |

Mewbourne Oil Company, Paduca 7/6 W1GB Fed #1H Sec 7, T26S, R32E

SL: 2400' FNL & 1770' FEL (7)

BHL: 100' FNL & 2310' FEL (6)

| CBL | |
|---------|--|
| Mud log | |
| PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH Pressure at deepest TVD | 7982 psi |
| Abnormal Temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

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

| | | | |
|------|-------------------|---|--|
| | H2S is present | | |
| X | H2S Plan attached | , | |

8. Other facets of operation

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

| Attachments | | | | |
|------------------|--|--|--|--|
| Directional Plan | | | | |
| Other, describe | | | | |

Mewbourne Oil Company, Paduca 7/6 W1GB Fed #1H Sec 7, T26S, R32E

SL: 2400' FNL & 1770' FEL (7) BHL: 100' FNL & 2310' FEL (6)

| Operator Name: | | | | | Property Name: | | | | | | Well Number | |
|-----------------------|--------------------------|-----------------|--------------|----------|---------------------------------------|--------------------------|-------------|-----------|-------------|----------|---------------|--------------|
| Mewbourne Oil Company | | | | · · | - | | Feder | al | | 1H | | |
| Kick (| Off Point | (KOP) | | | 1 | | | | | | | |
| UL G | Section 7 | Township 26S | Range 32E | Lot | Feet 2563 | Fro N | m N/S | Feet 2310 | | om E/W | County | |
| Latitu | 1. | l | OZL | | Longitu | | | 12010 | <u>, </u> | | NAD 83 | |
| First | Take Poir | nt (FTP) | | | · · · · · · · · · · · · · · · · · · · | | | | - w. | | | |
| UL G | Section 7 | Township 26S | Range 32E | Lot | Feet 2573 | N | m N/S | Feet 2310 | | om E/W | County Lea | |
| 32.0 | ^{1de} 058772 | 28 | | | Longitu -103 | ^{ide} .71327 | 79 | | | | NAD 83 | |
| Last 1 | ake Poin | t (LTP) | | | | | | | | | | |
| UL B | Section 6 | Township 26S | Range 32E | Lot 2 | Feet 100 | From N/ | S Fee 23 | | From E/W | Coun | ty | |
| Latitu 32.0 | ide 079288 | 32 | | • | Longitu -103 | itude NAD 83 | | | | | | |
| | - | | : | | | | | | | | | : |
| s this | well the | defining v | vell for th | e Hori: | zontal Sp | pacing Ur | it? | Υ | | | | |
| ls this | well an | infill well? | | N | | | | | | | | |
| | ll is yes p ng Unit. | lease prov | ide API if | availat | ole, Oper | rator Nan | ne and | well nu | ımber fo | r Defini | ng well fo | r Horizontal |
| API# | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | |



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

SUPO Data Report

APD ID: 10400029533

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Type: CONVENTIONAL GAS WELL

Submission Date: 07/31/2018

Well Number: 1H

Well Work Type: Drill



Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Paduca7_6W1GBFederal1H_existingroadmap_20180417141754.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Paduca7_6W1GBFederal1H_existingwellmap_20180417133702.pdf

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Battery will be on the north side of location 200' of 2-7/8" surface flow line will be installed from wellhead to battery.

Production Facilities map:

Paduca7_6W1GBFederal1H_productionfacilitymap_20180417141729.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: CAMP USE, DUST CONTROL,

INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

CASING

Describe type:

Source longitude: -103.41237

Water source type: IRRIGATION

Source latitude: 32.25868

Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: FEDERAL

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 1940

Source volume (acre-feet): 0.2500526

Source volume (gal): 81480

Water source and transportation map:

Paduca7_6W1GBFederal1H_watersourceandtransmap_20180417134144.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well Name: PADUCA 7/6 W1GB FEDERAL Well Number: 1H

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche

Construction Materials source location attachment:

Paduca7_6W1GBFederal1H_calichesourceandtransmap_20180417134314.pdf

barrels

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Amount of waste: 940

Waste content description: Drill cuttings

Waste disposal frequency: One Time Only

Safe containment description: Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located

on HWY 62/180, Sec. 27 T20S R32E.

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe containment attachment:

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

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

FACILITY

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500

pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Well Name: PADUCA 7/6 W1GB FEDERAL Well Number: 1H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Paduca7_6W1GBFederal1H_wellsitelayout_20180417141920.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: PADUCA 7/6 W1GB FEDERAL

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: None Drainage/Erosion control reclamation: None

Well pad proposed disturbance

(acres): 5.51

Well pad interim reclamation (acres):

Well pad long term disturbance

(acres): 4.215

Road proposed disturbance (acres): 0 Road interim reclamation (acres): 0 Road long term disturbance (acres): 0

Powerline proposed disturbance

Pipeline proposed disturbance

Total proposed disturbance: 5.51

(acres): 0

(acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

Pipeline interim reclamation (acres):

2.9834712E-7

Pipeline long term disturbance

(acres): 2.9834712E-7

Other proposed disturbance (acres): 0 Other interim reclamation (acres):

1.205

Other long term disturbance (acres):

1.205

Total interim reclamation: 2.5000002 Total long term disturbance: 5.42

Disturbance Comments: In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging. Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

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

Operator Name: MEWBOURNE OIL COMPANY Well Name: PADUCA 7/6 W1GB FEDERAL Well Number: 1H weeds, will be used. Soil treatment: NA Existing Vegetation at the well pad: Various brush & grasses Existing Vegetation at the well pad attachment: Existing Vegetation Community at the road: Various brush & grasses **Existing Vegetation Community at the road attachment:** Existing Vegetation Community at the pipeline: NA **Existing Vegetation Community at the pipeline attachment:** Existing Vegetation Community at other disturbances: NA **Existing Vegetation Community at other disturbances attachment:** Non native seed used? NO Non native seed description: Seedling transplant description: Will seedlings be transplanted for this project? NO Seedling transplant description attachment: Will seed be harvested for use in site reclamation? NO Seed harvest description: Seed harvest description attachment: **Seed Management Seed Table** Seed type: Seed source: Seed name: Source address: Source name: Source phone:

Proposed seeding season:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

Total pounds/Acre:

| Seed Summary | | | | | |
|--------------|-------------|--|--|--|--|
| Seed Type | Pounds/Acre | | | | |

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Bradley

Last Name: Bishop

Phone: (575)393-5905

Email: bbishop@mewbourne.com

Seedbed prep: Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed BMP: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Seed method: drilling or broadcasting seed over entire reclaimed area.

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: NA

Weed treatment plan attachment:

Monitoring plan description: vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.

Monitoring plan attachment:

Success standards: regrowth within 1 full growing season of reclamation.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

| Military Local Office: | |
|--|-----------------------|
| USFWS Local Office: | |
| Other Local Office: | |
| USFS Region: | |
| USFS Forest/Grassland: | USFS Ranger District: |
| | |
| · | |
| | |
| Disturbance type: NEW ACCESS ROAD | |
| Describe: | |
| Surface Owner: BUREAU OF LAND MANAGEMENT | |
| Other surface owner description: | · |
| BIA Local Office: | |
| BOR Local Office: | |
| COE Local Office: | |
| DOD Local Office: | |
| NPS Local Office: | |
| State Local Office: | |
| Military Local Office: | |
| USFWS Local Office: | |
| Other Local Office: | |
| USFS Region: | |
| USFS Forest/Grassland: | USFS Ranger District: |
| | |
| | |
| | |
| | |
| Disturbance type: EXISTING ACCESS ROAD | |
| Describe: | |
| Surface Owner: BUREAU OF LAND MANAGEMENT | |
| Other surface owner description: | |
| BIA Local Office: | |

Well Number: 1H

Operator Name: MEWBOURNE OIL COMPANY
Well Name: PADUCA 7/6 W1GB FEDERAL

BOR Local Office:
COE Local Office:

Well Name: PADUCA 7/6 W1GB FEDERAL

Well Number: 1H

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

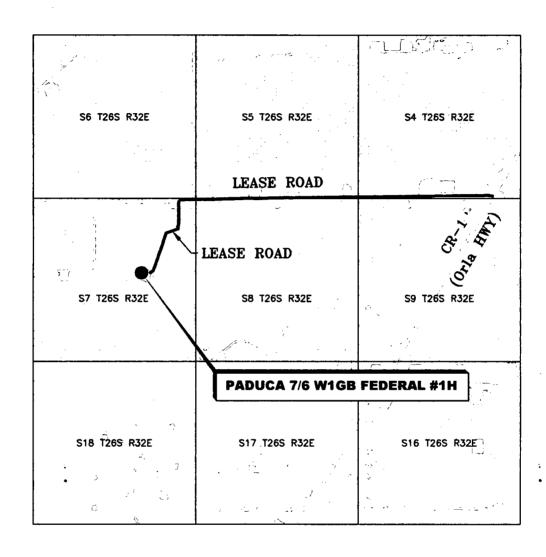
Previous Onsite information: MAR 08 2018 Met w/RRC Surveying & staked location @ 2450' FNL & 1700' FEL, Sec 7, T26S, R32E, Lea, Co., NM. This location was unacceptable due to buried MOC pipelines to the S. Re-staked location @ 2400' FNL & 1770' FEL, Sec 7, T26S, R32E, Lea, Co., NM. (Elevation @ 3250'). Topsoil will be stockpiled 30' wide on S side. Reclaim 60' S, E, & W. This will be a 400' x 600' pad. Wells will go to offsite battery to the N. Existing road comes in off NE corner. Location is in the PA. Will require onsite w/BLM.

Other SUPO Attachment

Paduca7_6W1GBFederal1H_gascaptureplan_20180417134643.pdf
Paduca7_6W1GBFederal1H_interimreclaimationdiagram_20180417141507.pdf

VICINITY MAP

NOT TO SCALE



SECTION 7, TWP. 26 SOUTH, RGE. 32 EAST, N. M. P. M., LEA COUNTY, NEW MEXICO

| OPERATOR: | Mewbourne Oil Company |
|-------------|-----------------------|
| LEASE: Padi | ica 7/6 W1GB Federal |

WELL NO.: 1H

LOCATION: 2400' FNL & 1770' FEL

ELEVATION: 3250'

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NO. REVISION DATE

JOB NO.: LS1803269

DWG. NO.: 1803269VM



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

SCALE: N / A

DATE: 03-07-2018

SURVEYED BY: ML/TF

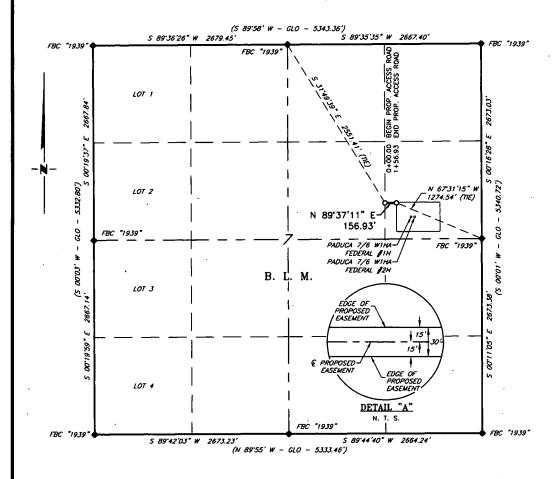
DRAWN BY: AIAC

APPROVED BY: RMH

SHEET: 1 OF 1

MEWBOURNE OIL COMPANY PROPOSED ACCESS ROAD FOR THE PADUCA 7/6 W1HA FEDERAL WELL LOCATIONS SECTION 7, T26S, R32E

N. M. P. M., LEA COUNTY, NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 156.93 feet or 9.511 rods in length, lying in Section 7, Township 26 South, Range 32 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Northeast quarter of Section 7, which bears, S 31'49'39" E, 2,551.41 feet from a brass cap, stamped "1939", found for the North quarter corner of Section 7;

Thence, N 89'37'11" E, 156.93 feet, to Engr. Sta. 1+56.93, the End of Survey, a point in the Northeast quarter of Section 7, which bears, N 67'31'15" W, 1,274.54 feet from a brass cap, stamped "1939", found for the East quarter corner of Section 7.

Said strip of land contains 0.108 acres, more or less, and is allocated by forties as follows:

= 1000 500 1000 SE 1/4 NE 1/4

9.511 Rods

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

RECORD DATA - GLO

FOUND MONUMENT AS NOTED PROPOSED ACCESS ROAD

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

46 wett Hobert M. Robert M. Howett

3/12/18 TIGE/ONAL SUR Copyright 2017 - All Rights Rese

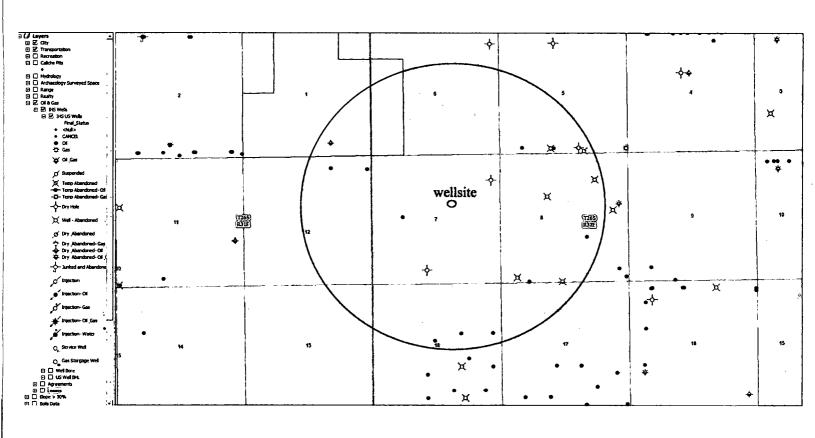
REVISION DATE JOB NO.: LS1803267 DWG. NO.: 1803267RD

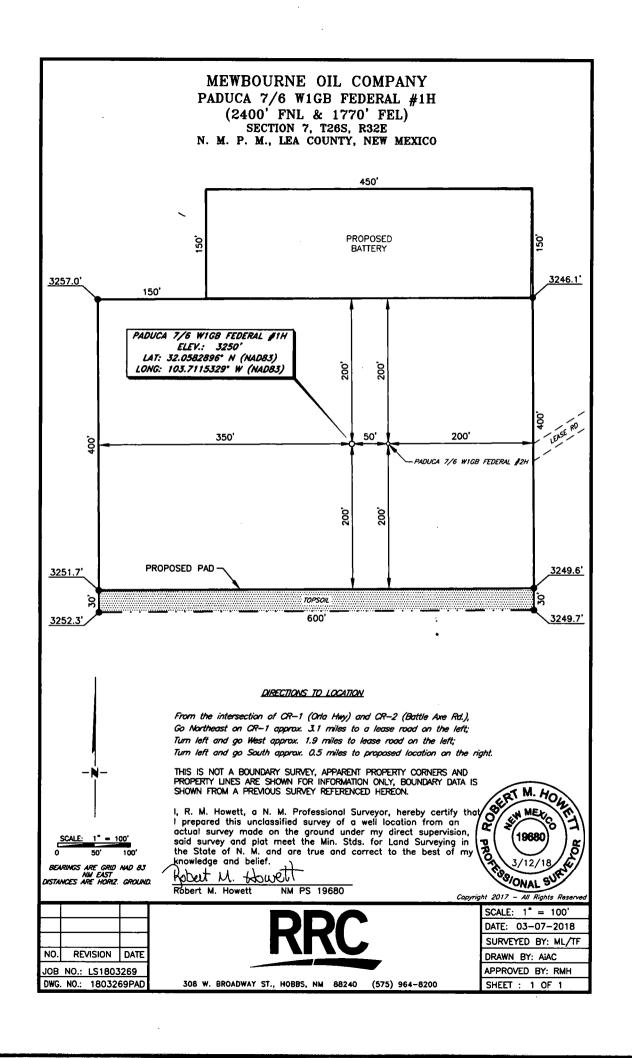


308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200 SCALE: 1" = 1000' DATE: 03-07-2018 SURVEYED BY: ML/TF DRAWN BY: AIAC APPROVED BY: RMH SHEET: 1 OF 1

M. HON

EXISTING WELL MAP PADUCA 7/6 W1GB FEDERAL #1H

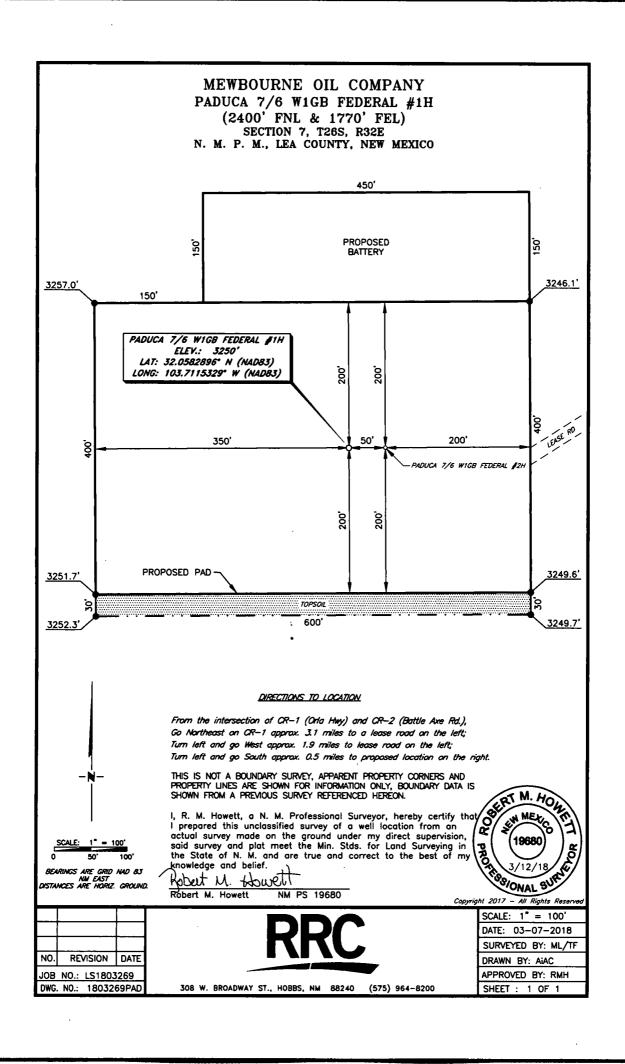


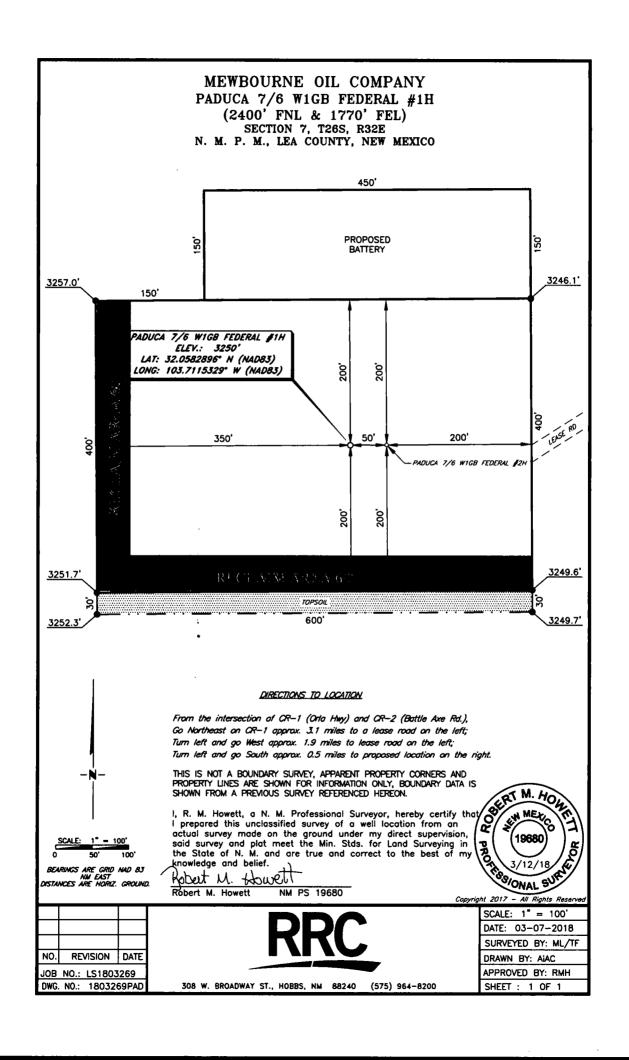


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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

PWD Data Report 04/05/2019

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

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:

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

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

| Produced Water Disposal (PWD) Location: | |
|--|---|
| PWD surface owner: | PWD disturbance (acres): |
| Unlined pit PWD on or off channel: | |
| Unlined pit PWD discharge volume (bbl/day): | |
| Unlined pit specifications: | |
| Precipitated solids disposal: | |
| 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 Disso that of the existing water to be protected? | lved Solids (TDS) concentration equal to or less than |
| TDS lab results: | |
| Geologic and hydrologic evidence: | • |
| State authorization: | |
| Unlined Produced Water Pit Estimated percolation: | |
| Unlined pit: do you have a reclamation bond for the pit? | |
| is the reclamation bond a rider under the BLM bond? | |
| Unlined pit bond number: | |
| Unlined pit bond amount: | |
| Additional bond information attachment: | |
| Section 4 - Injection | |
| Would you like to utilize Injection PWD options? NO | |
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Injection PWD discharge volume (bbl/day): | • |

| Injection well type: | |
|---|----------------------------|
| Injection well number: | Injection well name: |
| Assigned injection well API number? | Injection well API number: |
| Injection well new surface disturbance (acres): | |
| Minerals protection information: | |
| Mineral protection attachment: | |
| Underground Injection Control (UIC) Permit? | |
| UIC Permit attachment: | |
| Section 5 - Surface Discharge | |
| Would you like to utilize Surface Discharge PWD options? NO | |
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Surface discharge PWD discharge volume (bbl/day): | |
| Surface Discharge NPDES Permit? | |
| Surface Discharge NPDES Permit attachment: | |
| Surface Discharge site facilities information: | |
| Surface discharge site facilities map: | |
| Section 6 - Other | |
| Would you like to utilize Other PWD options? NO | • |
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Other PWD discharge volume (bbl/day): | |
| Other PWD type description: | |
| Other PWD type attachment: | |
| Have other regulatory requirements been met? | |
| Other regulatory requirements attachment: | |
| · | |
| | |

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

Bond Info Data Report 04/05/2019

Bond Information

Federal/Indian APD: FED

BLM Bond number: NM1693

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: