NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 3 0 2019 FORM APPROVED OMB No. 1004-0137 Form 3160-3 (June 2015) Expires: January 31, 2018 RECEIVED **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM016348 **BUREAU OF LAND MANAGEMENT** 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: Gas We 1b. Type of Well: Oil Well Other 8. Lease Name and Well No Single Zone Multiple Zone 1c. Type of Completion: Hydraulic Fracturing ARMSTRONG 2. Name of Operator MEWBOURNE OIL COMPANY 3:0-10 Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) WILDCAT WOLFCAMP / LOWF PO Box 5270 Hobbs NM 88240 (575)393-5905 4. Location of Well (Report location clearly and in accordance with any State requirements.*) T. R. M. of Blk. and SEC 26 / T25S/ R31E / NMP At surface SENE / 2500 FNL / 900 FEL / LAT 32.1016615 / LONG -103.7430997 At proposed prod. zone NENE / 330 FNL / 990 FEL / LAT 32.1221349 / LONG -103.7433297 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* 25 miles **EDDY** NM 15. Distance from proposed* 16. No of acres in leas 17. Spacing Unit dedicated to this well 330 feet location to nearest property or lease line, ft. 840 (Also to nearest drig. unit line, if any) 20/BLM/BIA Bond No. in file 18. Distance from proposed location^a 19. Proposed Depth to nearest well, drilling, completed, 50 feet FED: NM1693 11788 feet / 19062 feet applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 22. Approximate date work will start* 3341 feet 03/15/2019 60 days Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) Bradley Bishop / Ph: (575)393-5905	Date 01/16/2019
Title Regulatory		···
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 09/25/2019
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD	<u> </u>
Application approval does not warrant or certify that the applica	nt holds legal or equitable title to those rights in the subje	ct lease which would entitle the

applicant to conduct operations thereon

Conditions of approval-if any, are attached

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



*(Instructions on page 2)

(Continued on page 2)

Rup 10-01-19

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(\$, 6, 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.

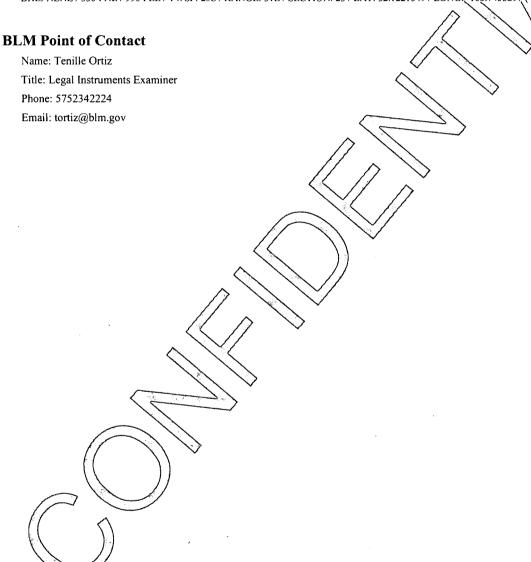
BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form 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

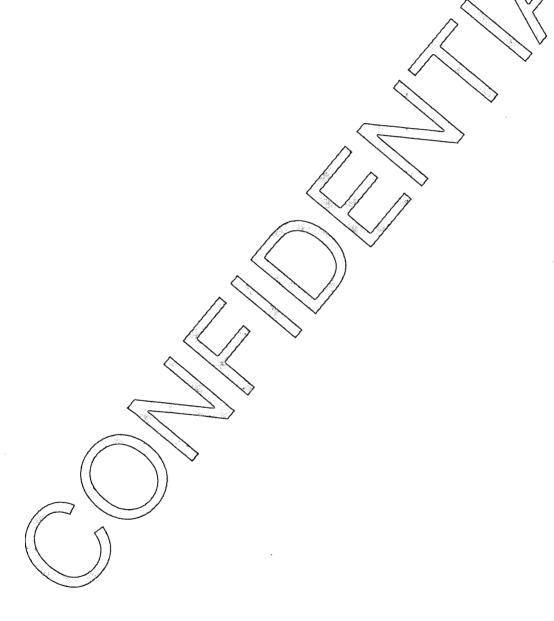
Location of Well

1. SHL: SENE / 2500 FNL / 900 FEL / TWSP: 25S / RANGE: 31E / SECTION: 26 / LAT: 32.1016615 / LONG: -103.7430997 (TVD: 0.feet, MD: 0.feet)
PPP: SENE / 2311 FNL / 990 FEL / TWSP: 25S / RANGE: 31E / SECTION: 26 / LAT: 32.1021815 / LONG: -103.7433892 (TVD: 11721 feet, MD: 11782 feet)
PPP: SENE / 2640 FNL / 990 FEL / TWSP: 25S / RANGE: 31E / SECTION: 23 / LAT: 32.1157862 / LONG: -103.7476102 (TVD: 11788 feet, MD: 16754 feet)
BHL: NENE / 330 FNL / 990 FEL / TWSP: 25S / RANGE: 31E / SECTION: 23 / LAT: 32.1221349 / LONG: -103.7433297 (TVD: 11788 feet, MD: 19062 feet)



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.



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMNM016348
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Wewbourne Oil Company
NMNM016348
Armstrong 26/23 W0HA Fed Com 2H
2500'/N & 990'/E
330'/N & 990'/E
Section 26, T.25 S., R.31 E., NMPM
Eddy County, New Mexico

 \mathbf{COA}

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

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 950 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to

- include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Additional cement maybe required. Excess calculated to 16%.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 7 inch production casing is:

 Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.
 - a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - Second stage above DV tool: Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - Cement should tie-back 100 feet into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)

- ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the

following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least $\underline{24}$ hours. WOC time will be recorded in the driller's log.

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

B. PRESSURE CONTROL

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

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

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basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 052219

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: Mewbourne Oil Company
WELL NAME & NO.:
SURFACE HOLE FOOTAGE: 2500'/N & 990'/E
BOTTOM HOLE FOOTAGE LOCATION: COUNTY: Eddy County, New Mexico

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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
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Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Hydrology
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
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☐ Road Section Diagram
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Well Structures & Facilities
Pipelines
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Final Abandonment & Reclamation

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

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Approval Date: 09/25/2019

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:
Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period.
Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted.
Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

to exceed 75 db measured at 30 feet from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Hydrology

The entire 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 with impermeable mineral material (e.g. caliche). 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 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 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. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. 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.

When crossing ephemeral drainages the pipeline will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

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.

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 5 of 15

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

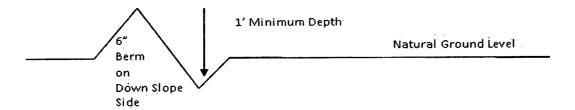
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Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

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:
$$\frac{400'}{4\%}$$
 + 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

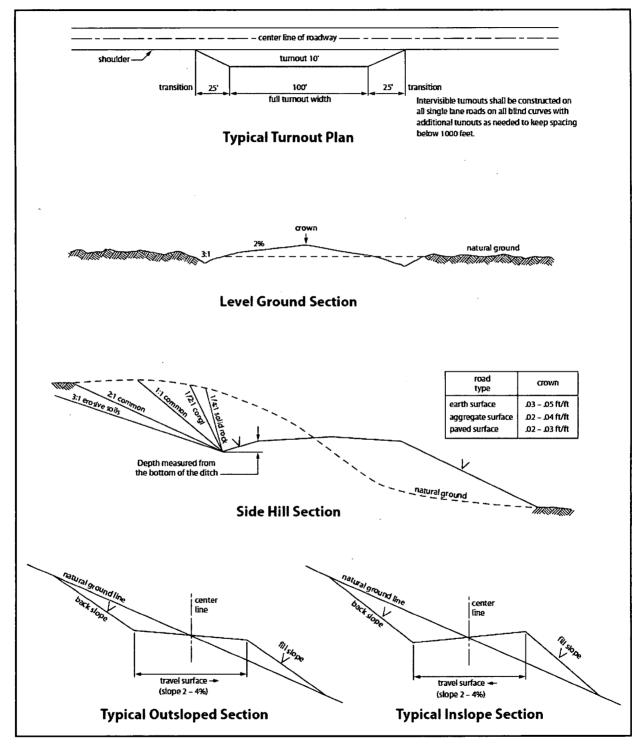


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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

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

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

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parties.

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

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

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

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

by the Authorized Officer.

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

authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

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

18. Special Stipulations:

a. <u>Lesser Prairie-Chicken:</u> Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

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.

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

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 shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall 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). 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. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may 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	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}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

©perator Certification Data Report 09/26/2019

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 Bish	hop	Signed on: 01/16/2019
Title: Regulatory		
Street Address:		
City:	State:	Zip:
Phone: (575)393-59	905	
Email address: bbi	ishop@mewbourne.com	
Field Rep	resentative	
Representative Na	ime:	
Street Address:		•
City:	State:	Zip:
Phone:		
Email address:	-	



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

Application Data Report

APD ID: 10400038003

Operator Name: MEWBOURNE OIL COMPANY

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Type: OIL WELL

Submission Date: 01/16/2019

Highlighted data reflects the most

recent changes

Show Final Text

Well Work Type: Drill

Well Number: 2H

Section 1 - General

APD ID:

10400038003

Tie to previous NOS?

Submission Date: 01/16/2019

BLM Office: CARLSBAD

User: Bradley Bishop

Title: Regulatory

Federal/Indian APD: FED

Lease number: NMNM016348

Lease Acres: 840

Federal or Indian agreement:

Surface access agreement in place?

Allotted?

Reservation:

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

Agreement in place? NO

Agreement number: Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: MEWBOURNE OIL COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: PO Box 5270

Zip: 88240

Operator PO Box:

Operator City: Hobbs

State: NM

Operator Phone: (575)393-5905

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: ARMSTRONG 26/23 W0HA FED COM

Field/Pool or Exploratory? Field and Pool

Master Development Plan name:

Master SUPO name:

Master Drilling Plan name:

Well Number: 2H

Well API Number:

Field Name: WILDCAT **WOLFCAMP**

Pool Name: LOWER 3RD **BONE SPRING (HARKY)**

SHALE

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? YES

Multiple Well Pad Name:

New surface disturbance? Y

Type of Well Pad: MULTIPLE WELL

Well Class: HORIZONTAL

ARMSTRONG 26/23 HA WELLS

Number: 2

Number of Legs:

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 25 Miles

Distance to nearest well: 50 FT

Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat:

ARMSTRONG26_23W0HAFEDCOM2H_wellplat_20190115093132.pdf

Well work start Date: 03/15/2019

Duration: 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number;

Reference Datum:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	250 0	FNL	900	FEL	258	31E	26	Aliquot SENE	32.10166 15	- 103.7430 997	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016348	334 1	0	0
KOP Leg #1	250 0	FNL	990	FEL	258	31E	26	Aliquot SENE	32.10166 2	- 103.7433 908	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016348	- 800 0	113 42	113 41
PPP Leg #1	231 1	FNL	990	FEL	258	31E	26	Aliquot SENE	32.10218 15	- 103.7433 892	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 016348	- 838 0	117 82	117 21

Well Name: ARMSTRONG 26/23 W0HA FED COM Well Number: 2H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD ´
PPP Leg #1	264 0	FNL	990	FEL	25S	31E	23	Aliquot SENE	32.11578 62	- 103.7476 102	EDD Y		NEW MEXI CO		NMLC0 061862	- 845 7	167 54	117 98
EXIT Leg #1	330	FNL	990	FEL	25S	31E	23	Aliquot NENE	32.12213 49	- 103.7433 297	EDD Y		NEW MEXI CO		NMLC0 061862	- 844 7	190 62	117 88
BHL Leg #1	330	FNL	990	FEL	258	31E	23	Aliquot NENE	32.12213 49	- 103.7433 297	EDD/ Y/	1 1	NEW MEXI CO	\ \	NMLC0 061862	- 844 7	190 62	117 88

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Pressure Rating (PSI): 5M

Rating Depth: 19062

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors are not required by manufacturer. A multibowl wellhead is being used. See attached schematic.

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

Choke Diagram Attachment:

Armstrong_26_23_W0HA_Fed_Com_2H_5M_BOPE_Choke_Diagram_20190.115162559.pdf
Armstrong_26_23_W0HA_Fed_Com_2H_Flex_Line_Specs_201901.15162600.pdf

BOP Diagram Attachment:

Armstrong_26_23_W0HA_Fed_Com_2H_5M_BOPE_Schematic_20190115162612.pdf
Armstrong_26_23_W0HA_Fed_Com_2H_Multi_Bowl_WH_20190115162614.pdf

Section 3 - Casing

					4 /		` `	\	7 T	. 1 .												
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	ARI	N ,	Ō	950	0	950			950	H-40	48	ST&C	1.77	3.98	DRY	7.06	DRY	11.8 6
	INTERMED` IATE	12.2 5	9.625	NEW	API	Y	0	4220	0	4220			4220	J-55	36	LT&C	1.13	1.96	DRY	2.92	DRY	3.64
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	11900	0	11780			11900	HCP -110	26	LT&C	1.34	1.71	DRY	2.24	DRY	2.68
4		6.12´ 5	4.5	NEW	API	N	11340	19062	11340	11788				P- 110	13.5	LT&C	1.45	1.68	DRY	3.24	DRY	4.05

Casing Attachments

Well Name: ARMSTRONG 26/23 W0HA FED COM Well Number: 2H **Casing Attachments** Casing ID: 1 String Type:SURFACE Inspection Document: Spec Document: **Tapered String Spec:** Casing Design Assumptions and Worksheet(s): String Type:INTERMEDIATE Casing ID: 2 Inspection Document: Spec Document: **Tapered String Spec:** $Armstrong_26_23_W0HA_Fed_Com_2H_Intermediate_Tapered_String_20190115163323.pdf$ Casing Design Assumptions and Worksheet(s): $Armstrong_26_23_W0HA_Fed_Com_2H_Csg_Assumptions_20190115163357.docx$ String Type:PRODUCTION Casing ID: 3 Inspection Document: Spec Document: **Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Armstrong_26_23_W0HA_Fed_Com_2H_Csg_Assumptions_20190115163511.docx

Operator Name: MEWBOURNE OIL COMPANY

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Casing Attachments

Casing ID: 4

String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Armstrong_26_23_W0HA_Fed_Com_2H_Csg_Assumptions_20190115163607;docx

Section	4 - Ce	emen	t				1			7	
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Qì Et	Excess%	Cement type	Additives
SURFACE	Lead	,	, 0,	758	500	2.12	12.5	1060	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	0,	758	950	200	1:34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	1	0	3524	640	2.12	12.5	1357	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		3524	4220	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	5485	4020	4790	70	2.12	12.5	148	~ 25	Class C	Gel, Retarder, Defoamer, Extender
PRÓDÚCTION	Tail	1	4790	5485	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	5485	5485	9406	350	2.12	12.5	742	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	-Tail		9406	1190 0	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		1134 0	1906 2	310	2.97	11.2	921	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Well Name: ARMSTRONG 26/23 W0HA FED COM Well Number: 2H

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 (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Get Strength (lbs/100 sqft)	H	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
950	4220	SALT SATURATED	∠10 -	10		1					
4220	1178 0	WATER-BASED MUD	8.6	9.5		-					
1178 0	1181	OIL-BASED MUD	10	12							Mud wieght up to 13.0 ppg may be required for shale control. The highest mud weight needed to balance formation is expected to be 12.0 ppg.
0	950、	SPUD MUD	8.6	8.8							

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Section 6 - Test, Logging, Coring

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

GR/CNL will be run from KOP (11,340') to surface.

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

DS,GR,MWD,MUDLOG

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7374

Anticipated Surface Pressure: 4778.44

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:

Armstrong_26_23_WQHA_Fed_Com_2H_H2S_Plan/20190115164324.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Armstrong_26_23_W0HA_Fed_Com_2H_Dir_Plan_20190115164345.pdf Armstrong_26_23_W0HA_Fed_Com_2H_Dir_Plot_20190115164346.pdf

Other proposed operations facets description:

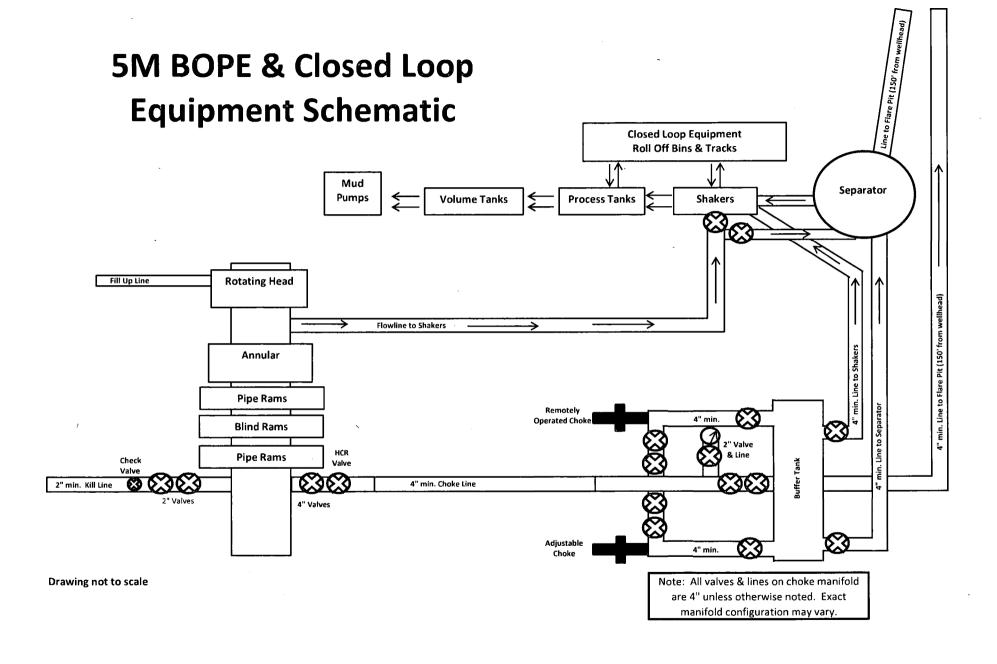
Other proposed operations facets attachment:

Armstrong_26_23_W0HA_Fed_Com_2H_Additional_Points_20190115164359.pdf

Armstrong_26_23_W0HA_Fed_Com_2H_Drlg_Program_20190115164400.docx

Other Variance attachment:

.





GATES E & S NORTH AMERICA, INC. 134 44TH STREET CORPUS CHRISTI, TEXAS 78405 PHONE: 361-887-9807 FAX: 361-887-0812

EMAIL: Tim.Cantu@gates.com

WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

ustomer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
ustomer Ref. :	4060578	Hose Senal No.:	D-043015-7
voice No. :	500506	Created By:	JUSTIN CROPPER
roduct Description:		10K3.548.0CK4.1/1610KFLGE/E	LE .
roduct Description:		10K3.548.0CK4.1/1610KFLGE/E	
·	4 1/16 10K FLG	10K3.548.0CK4.1/1610KFLGE/E	4 1/16 10K FLG
roduct Description:	4 1/16 10K FLG 4773-6290		

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 :

Produciton:

QUALITY

4/30/2015

Date:

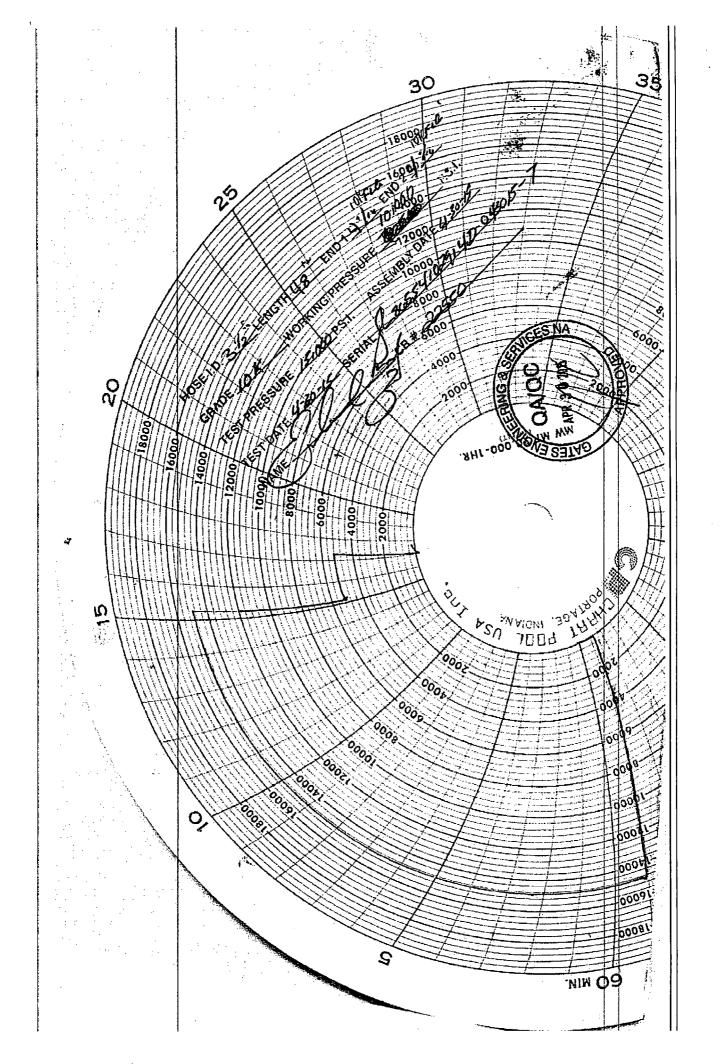
Signature :

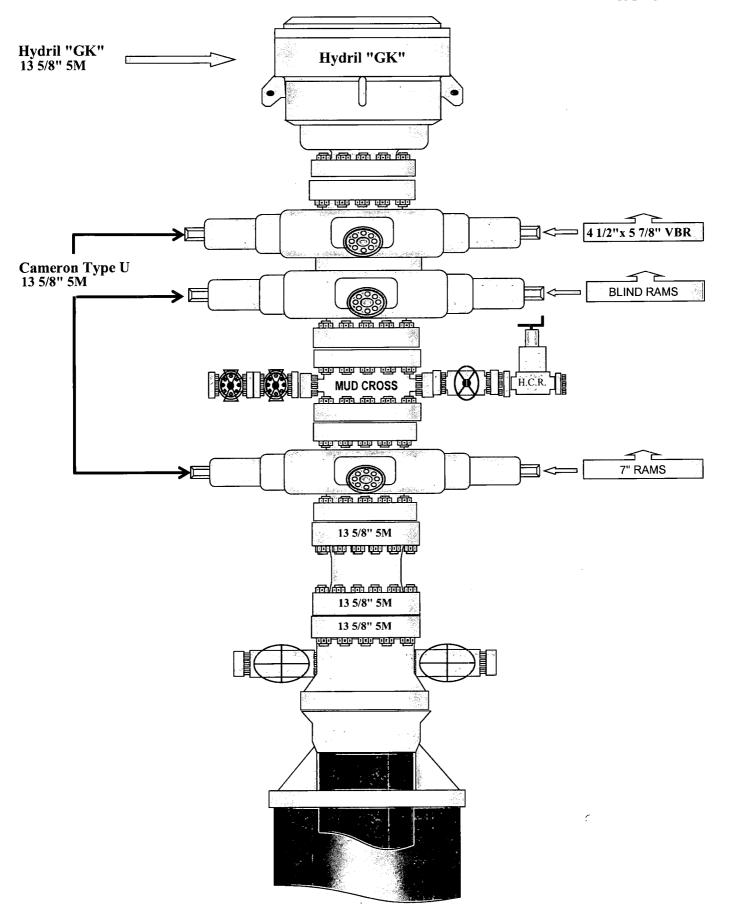
PRODUCTION

4/30/2015

Forn PTC - 01 Rev.0 2



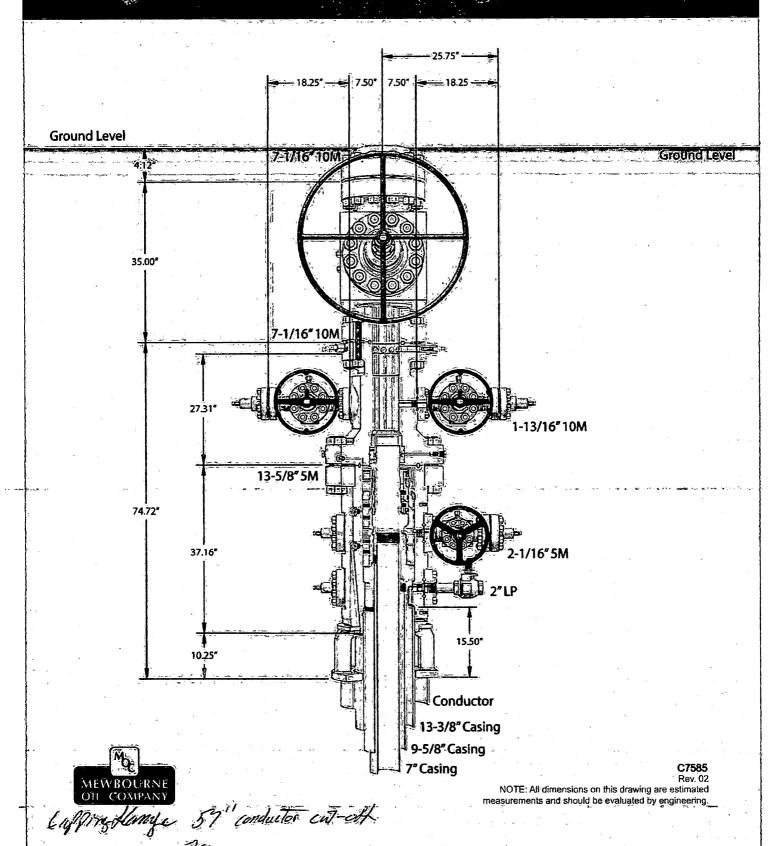




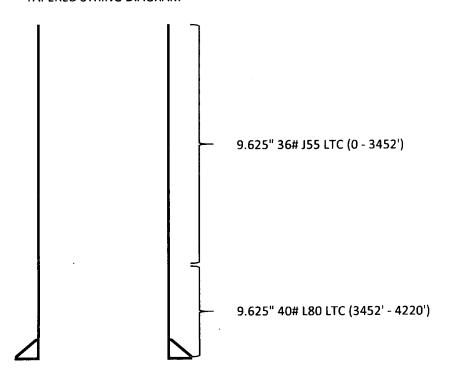


13-5/8" MN-DS Wellhead System

1



TAPERED STRING DIAGRAM



			JOINT	
	COLLAPSE	BURST	YIELD	BODY YIELD
36#	1.130	1.960	2.920	3.640
40#	1.410	2.620	23.670	29.820

Secs. 23 & 26, T25S, R31E SL: 2500' FNL & 900' FEL (26)

BHL: 330' FNL & 990' FEL (23)

Casing Program

Hole Size		ising erval	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	Fro m	To								
17.5"	0'	950'	13.375"	48	H 40	STC	1.77	3.98	7.06	11.86
12.25"	0'	3452'	9.625"	36	J55	LTC	1.13	1.96	2.92	3.64
12.25"	3452'	4220'	9.625"	40	L80	LTC	1.41	2.62	23.67	29.82
8.75"	0'	11900'	7"	26	HCP110	LTC _	1.34	1.71	2.24	2.68
6.125"	1134 0'	19062'	4.5"	13.5	P1-10	LTC	1.45	1.68	3.24	4.05
BLM	1.125	1	1.6 Dr	y 1.6 Dr	<u>у</u>	•				-
Minimu			1.8 We	et 1.8 W	et					
m										
Safety										
Factor										ļ

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

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

Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

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

Secs. 23 & 26, T25S, R31E SL: 2500' FNL & 900' FEL (26)

BHL: 330' FNL & 990' FEL (23)

Casing Program

Hole Size	1.0	ising erval	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	Fro m	z To								
17.5"	0'	950'	13.375"	48	H40	STC	1.77	3.98	7.06	11.86
12.25"	0'	3452'	9.625"	36	J55	LTC	1.13	1.96	2.92	3.64
12.25"	3452'	4220'	9.625"	40	L80	LTC	1.41	2.62	23.67	29.82
8.75"	0'	11900'	7"	26	HCP110	LTC	1.34	1.71	2.24	2.68
6.125"	1134 0'	19062'	4.5"	13.5	P110	LTC	1.45	1.68	3.24	4.05
BLM	1.125	1	1.6 Dr	y 1.6 Dr	<u>у</u>					
Minimu			1.8 We	et 1.8 W	et					
m										
Safety										
Factor										

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

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

Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26)

BHL:	330'	FNL	&	990'	FEL	(23)

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

Secs. 23 & 26, T25S, R31E SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

Casing Program

Hole Size		asing erval	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
•	Fro m	To								
17.5"	0'	950'	13.375"	48	H40	STC	1.77	3.98	7.06	11.86
12.25"	0,	3452'	9.625"	36	J55	LTC	1.13	1.96	2.92	3.64
12.25"	3452'	4220'	9.625"	40	L80	LTC	1.41	2.62	23.67	29.82
8.75"	0'	11900'	7"	26	HCP110	LTC	1.34	1.71	2.24	2.68
6.125"	1134 0'	19062'	4.5"	13.5	P110	LTC	1.45	1.68	3.24	4.05
BLM	1.125	1	1.6 Dr	y 1.6 Dr	y					
Minimu			1.8 W	et 1.8 Wo	et					
m										
Safety										
Factor										

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	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?	
	\$200 H A ARCT 1133
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.	
T UI CODAL C D 111 DO	N.T.
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?	l N
	+ **
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
10 WOR TOURIOU IN HIGH CAVOIXABLE.	.1 * 1

Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

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

Mewbourne Oil Company Armstrong 26/23 W0HA Fed Com #2H Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

Casing Program

Hole Size	BOA .	ising erval	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	Fro m	То		24						er en
17.5"	0'	950'	13.375"	48	H40	STC	1.77	3.98	7.06	11.86
12.25"	0'	3452'	9.625"	36	J55	LTC	1.13	1.96	2.92	3.64
12.25"	3452'	4220'	9.625"	40	L80	LTC	1.41	2.62	23.67	29.82
8.75"	0'	11900'	7"	26	HCP110	LTC	1.34	1.71	2.24	2.68
6.125"	1134	19062'	4.5"	13.5	P110	LTC	1.45	1.68	3.24	4.05
	0'									
BLM	1.125	1	1.6 Dr	y 1.6 Dr	y					
Minimu			1.8 We	et 1.8 W	et					
m										
Safety										
Factor										

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	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?	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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?	
	N
Is well located in high Cave/Karst?	N

Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

If yes, are there two strings cemented to surface?		
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?		
	<u> </u>	25 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Is well located in critical Cave/Karst?		N
If yes, are there three strings cemented to surface?		

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

- 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. Visual Warning Systems

- A. Wind direction indicators as indicated on the wellsite diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2 nd Fax	575-393-7259
District Manager	Robin Terrell	575-390-4816
Drilling Superintendent	Frosty Lathan	575-390-4103
-	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Armstrong 26/23 W0HA Fed Com #2H

Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

Plan: Design #1

Standard Planning Report

15 January, 2019

Hobbs Site Armstrong 26/23 W0HA Fed Com #2H Local Co-ordinate Reference: Database: Mewbourne Oil Company WELL @ 3368.0usft (Original Well Elev) Company: TVD Reference: WELL @ 3368.0usft (Original Well Elev) Eddy County, New Mexico NAD 83 Project: MD Reference: Site: Armstrong 26/23 W0HA Fed Com #2H North Reference: Secs. 23 & 26, T25S, R31E **Survey Calculation Method:** Minimum Curvature Well: Wellbore: BHL: 330' FNL & 990' FEL (23)

Design:

Design #1

Project Eddy County, New Mexico NAD 83

Map System: US State Plane 1983 System Datum: Mean Sea Level

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

Site Armstrong 26/23 W0HA Fed Com #2H 32.1016607 Northing: 401,221.00 usft Latitude: Site Position: 724,102.00 usft -103.7431001 Longitude: Мар Easting: **Grid Convergence:** 0.31° Slot Radius: 13-3/16 " Position Uncertainty: 0.0 usft

Well Secs. 23 & 26, T25S, R31E 32.1016607 401,221.00 usft Latitude: +N/-S 0.0 usft Northing: **Well Position** -103.7431001 724,102.00 usft Longitude: +E/-W 0.0 usft Easting: **Ground Level:** 3,341.0 usft 3,368.0 usft 0.0 usft Wellhead Elevation: **Position Uncertainty**

BHL: 330' FNL & 990' FEL (23) Wellbore Field Strength Dip Angle **Model Name** Sample Date Declination Magnetics (nT) (°) (°) 47,768 IGRF2010 1/15/2019 6.72 59.85

Design #1 Design Audit Notes: 0.0 Version: Phase: **PROTOTYPE** Tie On Depth: Depth From (TVD) +N/-S +E/-W Direction Vertical Section: (usft) (usft) (°) (usft) 359.14 0.0 0.0 0.0

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	
4,295.0	0.00	0.00	4,295.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,344.1	0.74	270.00	4,344.1	0.0	-0.3	1.50	1.50	0.00	270.00	
11,292.4	0.74	270.00	11,291.9	0.0	-89.7	0.00	0.00	0.00	0.00	
11,341.6	0.00	0.00	11,341.0	0.0	-90.0	1.50	-1.50	0.00	180.00	KOP: 2500' FNL & 99
12,092.9	90.25	359.83	11,818.0	479.1	-91.4	12.01	12.01	0.00	-0.17	
19,061.9	90.25	359.83	11,788.0	7,448.0	-112.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 990

Database: Company: Hobbs

Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Armstrong 26/23 W0HA Fed Com #2H

Well: Wellbore: Design: Secs. 23 & 26, T25S, R31E BHL: 330' FNL & 990' FEL (23)

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Site Armstrong 26/23 W0HA Fed Com #2H WELL @ 3368.0usft (Original Well Elev) WELL @ 3368.0usft (Original Well Elev)

Grid

ned Survey						· · · · · · · · · · · · · · · · · · ·				
	and the second	127		14 14 14 14 14 14 14 14 14 14 14 14 14 1			te, j	is Asian Samining	And the second	
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)	,
0.0	0,00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
SL: 2500'	FNL & 900' FEL (20	6)		the second way a garage common			agency are areas . It is a respect to	and the substance - section to a first		
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	
600.6	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.6	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.6	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.	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.6	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.6	0.00	0.00	1,700.0	0.0	` _ 0.0	0.0	0.00	0.00	0.00	
1,800.	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.6		0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.		0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.		0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.		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.		0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0		0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.		0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.		0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.		0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.		0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.		0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.		0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0		0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
									0.00	
3,500.0		0.00	3,500.0	0.0	0.0	0.0	0.00	0.00		
3,600.		0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00 0.00	
3,700.0		0.00	3,700.0	0.0	0.0	0.0	0.00	0.00		
3,800.0 3,900.0		0.00 0.00	3,800.0 3,900.0	0.0 0.0	0.0 0.0	0.0	0.00 0.00	0.00 0.00	0.00 0.00	
4,000.		0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00 0.00	
4,100.		0.00	4,100.0	0.0	0.0	0.0	0.00	0.00		
4,200.		0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,295.		0.00	4,295.0	0.0	0.0	0.0	0.00	0.00	0.00 0.00	
4,300.		270.00	4,300.0	0.0	0.0	0.0	1.50	1.50		
4,344.		270.00	4,344.1	0.0	-0.3	0.0	1.50	1.50	0.00	
4,400.		270.00	4,400.0	0.0	-1.0	0.0	0.00	0.00	0.00	
4,500.		270.00	4,500.0	0.0	-2.3	0.0	0.00	0.00	0.00	
4,600.		270.00	4,600.0	0.0	-3.6	0.1	0.00	0.00	0.00	
4,700.0	0 0.74	270.00	4,700.0	0.0	-4.9	0.1	0.00	0.00	0.00	
4,800.0	0 0.74	270.00	4,800.0	0.0	-6.2	0.1	0.00	0.00	0.00	
4,900.	0 0.74	270.00	4,900.0	0.0	- 7.5	0.1	0.00	0.00	0.00	
5,000.0		270.00	4,999.9	0.0	-8.8	0.1	0.00	0.00	0.00	

Database: Company: Project:

Site:

Well:

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Armstrong 26/23 W0HA Fed Com #2H

Secs. 23 & 26, T25S, R31E

 Wellbore:
 BHL: 330' FNL & 990' FEL (23)

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site Armstrong 26/23 W0HA Fed Com #2H WELL @ 3368.0usft (Original Well Elev) WELL @ 3368.0usft (Original Well Elev)

Grid

Planr	ned Survey	حجا المراجع					- 20	-		
	Measured			Vertical			Vertical	Dogleg	Build	Turn
					.N/ C	Erw	Section	Rate	Rate	Rate
	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	1.000	(°/100usft)	(°/100usft)	(°/100usft)
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(/ Toousit)	(/ Ioousit)	
	5,100.0	0.74	270.00	5,099.9	0.0	-10.0	0.2	0.00	0.00	0.00
	5,200.0	0.74	270.00	5,199.9	0.0	-11.3	0.2	0.00	0.00	0.00
	5,300.0	0.74	270.00	5,299.9	0.0	-12.6	0.2	0.00	0.00	0.00
	5,400.0	0.74	270.00	5,399.9	0.0	-13.9	0.2	0.00	0.00	0.00
	5,500.0	0.74	270.00	5,499.9	0.0	-15.2	0.2	0.00	0.00	0.00
	5,600.0	0.74	270.00	5,599.9	0.0	-16.5	0.2	0.00	0.00	0.00
	5,700.0	0.74	270.00	5,699.9	0.0	-17.8	0.3	0.00	0.00	0.00
	5,800.0	0.74	270.00	5,799.9	0.0	-19.0	0.3	0.00	0.00	0.00
	5,900.0	0.74	270.00	5,899.9	0.0	-20.3	0.3	0.00	0.00	0.00
	6,000.0	0.74	270.00	5,999.9	0.0	-21.6	0.3	0.00	0.00	0.00
	6,100.0	0.74	270.00	6,099.9	0.0	-22.9	0.3	0.00	0.00	0.00
	6,200.0	0.74	270.00	6,199.8	0.0	-24.2	0.4	0.00	0.00	0.00
					0.0	-25.5	0.4	0.00	0.00	0.00
	6,300.0	0.74	270.00	6,299.8		-25.5 -26.8	0.4	0.00	0.00	0.00
	6,400.0	0.74	270.00	6,399.8	0.0 0.0	-26.8 -28.0	0.4	0.00	0.00	0.00
	6,500.0	0.74	270.00	6,499.8	0.0	-28.0 -29.3	0.4	0.00	0.00	0.00
	6,600.0 6,700.0	0.74 0.74	270.00 270.00	6,599.8 6,699.8	0.0	-29.3 -30.6	0.4	0.00	0.00	0.00
	6,700.0									
	6,800.0	0.74	270.00	6,799.8	0.0	-31.9	0.5	0.00	0.00	0.00
	6,900.0	0.74	270.00	6,899.8	0.0	-33.2	0.5	0.00	0.00	0.00
	7,000.0	0.74	270.00	6,999.8	0.0	-34.5	0.5	0.00	0.00	0.00
	7,100.0	0.74	270.00	7,099.8	0.0	-35.8	0.5	0.00	0.00	0.00
	7,200.0	0.74	270.00	7,199.8	0.0	-37.0	0.6	0.00	0.00	0.00
	7,300.0	0.74	270.00	7,299.8	0.0	-38.3	0.6	0.00	0.00	0.00
	7,400.0	0.74	270.00	7,399.7	0.0	-39.6	0.6	0.00	0.00	0.00
	7,500.0	0.74	270.00	7,499.7	0.0	-40.9	0.6	0.00	0.00	0.00
	7,600.0	0.74	270.00	7,599.7	0.0	-42.2	0.6	0.00	0.00	0.00
	7,700.0	0.74	270.00	7,699.7	0.0	-43.5	0.7	0.00	0.00	0.00
			270.00	7,799.7	0.0	-44.8	0.7	0.00	0.00	0.00
	7,800.0	0.74 0.74	270.00 270.00	7,799.7 7,899.7	0.0	-46.1	0.7	0.00	0.00	0.00
	7,900.0 8,000.0	0.74	270.00	7,999.7	0.0	-47.3	0.7	0.00	0.00	0.00
	8,100.0	0.74	270.00	8,099.7	0.0	-48.6	0.7	0.00	0.00	0.00
	8,200.0	0.74	270.00	8,199.7	0.0	-49.9	0.8	0.00	0.00	0.00
								0.00	0.00	0.00
	8,300.0	0.74	270.00	8,299.7	0.0	-51.2	0.8		0.00	0.00
	8,400.0	0.74	270.00	8,399.7	0.0	-52.5	0.8	0.00	0.00	0.00
	8,500.0	0.74	270.00	8,499.7	0.0	-53.8	0.8	0.00	0.00	0.00
	8,600.0	0.74	270.00	8,599.6	0.0	-55.1 -56.3	8.0 8.0	0.00 0.00	0.00	0.00
	8,700.0	0.74	270.00	8,699.6	0.0					
	8,800.0	0.74	270.00	8,799.6	0.0	-57.6	0.9	0.00	0.00	. 0.00
	8,900.0	0.74	270.00	8,899.6	0.0	-58.9	0.9	0.00	0.00	0.00
	9,000.0	0.74	270.00	8,999.6	0.0	-60.2	0.9	0.00	0.00	0.00
	9,100.0	0.74	270.00	9,099.6	0.0	-61.5	0.9	0.00	0.00	0.00
	9,200.0	0.74	270.00	9,199.6	0.0	-62.8	0.9	0.00	0.00	0.00
	9,300.0	0.74	270.00	9,299.6	0.0	-64.1	1.0	0.00	0.00	0.00
	9,400.0	0.74	270.00	9,399.6	0.0	-65.3	1.0	0.00	0.00	0.00
	9,500.0	0.74	270.00	9,499.6	0.0	-66.6	1.0	0.00	0.00	0.00
	9,600.0	0.74	270.00	9,599.6	0.0	-67.9	1.0	0.00	0.00	0.00
	9,700.0	0.74	270.00	9,699.6	0.0	-69.2	1.0	0.00	0.00	0.00
	9,800.0	0.74	270.00	9,799.5	0.0	-70.5	1.1	0.00	0.00	0.00
	9,900.0	0.74	270.00	9,899.5	0.0	-71.8 -70.4	1.1	0.00	0.00	0.00
	10,000.0	0.74	270.00	9,999.5	0.0	-73.1	1.1	0.00	0.00	0.00
	10,100.0	0.74	270.00	10,099.5	0.0	-74.3	1.1	0.00	0.00	0.00
	10,200.0	0.74	270.00	10,199.5	0.0	-75.6	1.1	0.00	0.00	0.00
	10,300.0	0.74	270.00	10,299.5	0.0	-76.9	1.2	0.00	0.00	0.00
	10,400.0	0.74	270.00	10,399.5	0.0	-78.2	1.2	0.00	0.00	0.00

Database: Company: Project: Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Armstrong 26/23 W0HA Fed Com #2H

Well: Wellbore:

Site:

Secs. 23 & 26, T25S, R31E BHL: 330' FNL & 990' FEL (23)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Armstrong 26/23 W0HA Fed Com #2H WELL @ 3368.0usft (Original Well Elev) WELL @ 3368.0usft (Original Well Elev)

Grid

	4.0										
	Measured			Vertical			Vertical	Dogleg	Build	Turn	
	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate	
s.	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
	10,500.0	0.74	270.00	10,499.5	0.0	-79.5	1.2	0.00	0.00	0.00	
	10,600.0	0.74	270.00	10,599.5	0.0	-80.8	1.2	0.00	0.00	0.00	
	10,700.0	0.74	270.00	10,699.5	0.0	-82.1	1.2	0.00	0.00	0.00	
				•							
	10,800.0	0.74	270.00	10,799.5	0.0	-83.4	1.3	0.00	0.00	0.00	
	10,900.0	0.74	270.00	10,899.5	0.0	-84.6	1.3	0.00	0.00	0.00	
	11,000.0	0.74	270.00	10,999.4	0.0	-85.9	1.3	0.00	0.00	0.00	
	11,100.0	0.74	270.00	11,099.4	0.0	-87.2	1.3	0.00	0.00	0.00	
	11,200.0	0.74	270.00	11,199.4	0.0	-88.5	1.3	0.00	0.00	0.00	
	11,292.4	0.74	270.00	11,291.9	0.0	-89.7	1.3	0.00	0.00	0.00	
	11,300.0	0.62	270.00	11,299.4	0.0	-89.8	1.3	1.50	-1.50	0.00	
	11,341.6	0.00	0.00	11,341.0	0.0	-90.0	1.4	1.50	-1.50	0.00	
	KOP: 2500'	FNL & 990' FEL (26)								-
	11,400.0	7.02	359.83	11,399.3	3.6	-90.0	4.9	12.01	12.01	0.00	
	11,500.0	19.03	359.83	11,496.5	26.1	-90.1	27.4	12.01	12.01	0.00	
	11,600.0	31.04	359.83	11,587.0	68.3	-90.2	69,7	12,01	12.01	0.00	
	11,800.0	43.05	359.83	11,567.0	128.4	-90.2 -90.4	129.8	12.01	12.01	0.00	
	11,781.7	52.86	359.83	11,721.3	189.0	-90.6	190.4	12.01	12.01	0.00	
r	THE RESIDENCE A POWER OF RELEASE	NL & 990' FEL (2	THE RESERVE THE PERSON OF THE	11,721.5	103.0	-50.0	130.4			0.00	
٠.	11,800.0	55.06	359.83	11,732.0	203.8	-90.6	205.2	12.01	12.01	0.00	+
	11,900.0	67.08	359.83	11,780.3	291.2	-90.9	292.5	12.01	12.01	0.00	
				11,809.4	386.7	-91.1	388.0	12.01	12.01	0.00	
	12,000.0	79.09	359.83		305.7 479.1				12.01	0.00	
	12,092.9	90.25	359.83	11,818.0		-91.4	480.4	12.01			
	12,100.0	90.25	359.83	11,818.0	486.1	-91.4	487.5	0.00	0.00	0.00	
	12,200.0	90.25	359.83	11,817.5	586.1	-91.7	587.5	0.00	0.00	0.00 0.00	
	12,300.0	90.25	359.83	11,817.1	686.1	-92.0	687.5	0.00	0.00		
	12,400.0	90.25	359.83	11,816.7	786.1	-92.3	787.4	0.00	0.00	0.00	
	12,500.0	90.25	359.83	11,816.2	886.1	-92.6	887.4	0.00	0.00	0.00	
	12,600.0	90.25	359.83	11,815.8	986.1	-92.9	987.4	0.00	0.00	0.00	
	12,700.0	90.25	359.83	11,815.4	1,086.1	-93.2	1,087.4	0.00	0.00	0.00	
	12,800.0	90.25	359.83	11,815.0	1,186.1	-93.5	1,187.4	0.00	0.00	0.00	
	12,900.0	90.25	359.83	11,814.5	1,286.1	-93.8	1,287.4	0.00	0.00	0.00	
	13,000.0	90.25	359.83	11,814.1	1,386.1	-94.1	1,387.4	0.00	0.00	0.00	
	13,100.0	90.25	359.83	11,813.7	1,486.1	-94.4	1,487.4	0.00	0.00	0.00	
	13,200.0	90.25	359.83	11,813.2	1,586.1	-94.7	1,587.4	0.00	0.00	0.00	
	13,300.0	90.25	359.83	11,812.8	1,686.1	-95.0	1,687.4	0.00	0.00	0.00	
	13,400.0									0.00	
		90.25	359.83	11,812.4	1,786.1	-95.3	1,787.4	0.00	0.00		
	13,500.0	90.25	359.83	11,811.9	1,886.1	-95.6	1,887.4	0.00	0.00	0.00	
	13,600.0	90.25	359.83	11,811.5	1,986.1	-95.9	1,987.3	0.00	0.00	0.00	
	13,700.0 13,800.0	90.25 90.25	359.83 359.83	11,811.1 11,810.7	2,086.1 2,186.1	-96.2 -96.5	2,087,3 2,187.3	0.00 0.00	0.00 0.00	0.00 0.00	
	13,900.0	90.25	359.83	11,810.2	2,286.1	-96.8	2,287.3	0.00	0.00	0.00	
	14,000.0	90.25	359.83	11,809.8	2,386.1	-97.0	2,387.3	0.00	0.00	0.00	
	14,100.0	90.25	359.83	11,809.4	2,486.1	-97.3	2,487.3	0.00	0.00	0.00	
	14,200.0	90.25	359.83	11,808.9	2,586.1	-97.6	2,587.3	0.00	0.00	0.00	
	14,300.0	90.25	359.83	11,808.5	2,686.1	-97.9	2,687.3	0.00	0.00	0.00	
	14,400.0	90.25	359.83	11,808,1	2,786.1	-98.2	2,787.3	0.00	0.00	0.00	
	14,500.0	90.25	359.83	11,807.6	2,886.1	-98.5	2,887.3	0.00	0.00	0.00	
	14,600.0	90.25	359.83	11,807.2	2,986.1	-98.8	2,987.3	0.00	0.00	0.00	
	14,700.0	90.25	359.83	11,806.8	3,086.1	-99.1	3,087.3	0.00	0.00	0.00	
	14,800.0	90.25	359.83	11,806.3	3,186.1	-99.4	3,187.2	0.00	0.00	0.00	
				·		-99.7	3,287.2	0.00	0.00	0.00	
	14,900.0 15,000.0	90.25 90.25	359.83 359.83	11,805.9 11,805.5	3,286.1 3,386.1		3,287.2 3,387.2	0.00	0.00	0.00	
		90.25 90.25	359.83	11,805.1	3,486.1	-100.0	3,387.2	0.00	0.00	0.00	
	15,100.0 15,200.0	90.25 90.25	359.83	11,804.6	3,466.1 3,586.1	-100.3	3,467.2 3,587.2	0.00	0.00		

Database: Company: Project:

Site:

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Armstrong 26/23 W0HA Fed Com #2H

Well: Wellbore:

Design:

Secs. 23 & 26, T25S, R31E BHL: 330' FNL & 990' FEL (23)

Design #1

19,061.9

90.25

BHL: 330' FNL & 990' FEL (23)

359.83

11,788.0

7,448.0

-112.0

7,448.8

0.00

0.00 0.00

0.00

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Armstrong 26/23 W0HA Fed Com #2H WELL @ 3368.0usft (Original Well Elev) WELL @ 3368.0usft (Original Well Elev)

Grid

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)
15,300.0	^ 90.25	359.83	11,804.2	3,686.1	-100.9	3,687.2	0.00	0.00	0.00
15,400.0	90.25	359.83	11,803.8	3,786.1	-101.2	3,787.2	0.00	0.00	0.00
15,500.0		359.83	11,803,3	3,886.1	-101.5	3,887.2	0.00	0.00	0.00
15,600.0		359.83	11,802.9	3,986.1	-101.8	3,987.2	0.00	0.00	0.00
15,700.0		359.83	11,802.5	4,086.1	-102.1	4,087.2	0.00	0.00	0.00
15,800.0		359.83	11,802.0	4,186.1	-102.4	4,187.2	0.00	0.00	0.00
15,900.0		359.83	11,801.6	4,286.1	-102.7	4,287.2	0.00	0.00	0.00
16,000.0		359.83	11,801.2	4,386.1	-103.0	4,387.1	0.00	0.00	0.00
16,100.0		359.83	11,800.8	4,486.1	-103.3	4,487.1	0.00	0.00	0.00
		359.83	11,800.3	4,586.1	-103.5	4,587.1	0.00	0.00	0.00
16,200.0 _ 16,300.0		359.83 359.83	11,799.9	4,586.1	-103.8	4,687.1	0.00	0.00	0.00
								0.00	0.00
16,400.0		359.83	11,799.5	4,786.1	-104.1	4,787.1	0.00		0.00
16,500.0		359.83	11,799.0	4,886.1	-104.4	4,887.1	0.00	0.00 0.00	0.00
16,600.0		359.83	11,798.6	4,986.1	-104.7	4,987.1	0.00		0.00
16,700.0		359.83	11,798.2	5,086.1	-105.0	5,087.1	0.00	0.00 0.00	0.00
16,753.9		359.83	11,797.9	5,140.0	-105.2	5,141.0	0.00	0.00	
PPP: 2640	FNL & 990' FEL ((23)					-		
16,800.0	90.25	359.83	11,797.7	5,186.1	-105.3	5,187.1	0.00	0.00	0.00
16,900.0		359.83	11,797.3	5,286.1	-105.6	5,287.1	0.00	0.00	0.00
17,000.0	90.25	359.83	11,796.9	5,386.1	-105.9	5,387.1	0.00	0.00	0.00
17,100.0		359.83	11,796.4	5,486.1	-106.2	5,487.1	0.00	0.00	0.00
17,200.0		359.83	11,796.0	5,586.1	-106.5	5,587.0	0.00	0.00	0.00
17,300.0	90,25	359.83	11,795.6	5,686.1	-106.8	5,687.0	0.00	0.00	0.00
17,400.0		359.83	11,795.2	5,786.1	-107.1	5,787.0	0.00	0.00	0.00
17,500.0		359.83	11,794.7	5,886.1	-107.4	5,887.0	0.00	0.00	0.00
17,600.0		359.83	11,794.3	5,986.1	-107.7	5,987.0	0.00	0.00	0.00
17,700.0		359.83	11,793.9	6,086.1	-108.0	6,087.0	0.00	0.00	0.00
		359,83	11.793.4	6,186.1	-108.3	6,187.0	0.00	0.00	0.00
17,800.0				6,186.1 6,286.1	-108.6	6,287.0	0.00	0.00	0.00
17,900.0		359.83 359.83	11,793.0 11,792.6	6,286.1	-108.9	6,387.0	0.00	0.00	0.00
18,000.0		359.83 359.83	11,792.6	6,486.1	-109.2	6,487.0	0.00	0.00	0.00
18,100.0		359.83 359.83	11,792.1 11,791.7	6,586.1	-109.2 -109.5	6,587.0	0.00	0.00	0.00
18,200.0			•	·					
18,300.0		359.83	11,791.3	6,686.1	-109.7	6,687.0	0.00	0.00	0.00
18,400.0		359.83	11,790.8	6,786.1	-110.0	6,786.9	0.00	0.00	0.00
18,500.0		359.83	11,790.4	6,886.1	-110.3	6,886.9	0.00	0.00	0.00
18,600.0		359.83	11,790.0	6,986.1	-110.6	6,986.9	0.00	0.00	0.00
18,700.0	90.25	359.83	11,789.6	7,086.1	-110.9	7,086.9	0.00	0.00	0.00
18,800.0	90.25	359.83	11,789.1	7,186.1	-111.2	7,186.9	0.00	0.00	0.00
18,900.0		359.83	11,788.7	7,286.1	-111.5	7,286.9	0.00	0.00	0.00
19,000.0		359.83	11,788.3	7,386.1	-111.8	7,386.9	0.00	0.00	0.00
,			•						0.00

Database: Company:

Well:

Hobbs

Mewbourne Oil Company

Project: Site: Eddy County, New Mexico NAD 83 Armstrong 26/23 W0HA Fed Com #2H

Secs. 23 & 26, T25S, R31E BHL: 330' FNL & 990' FEL (23)

Wellbore: BHL: 330'
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

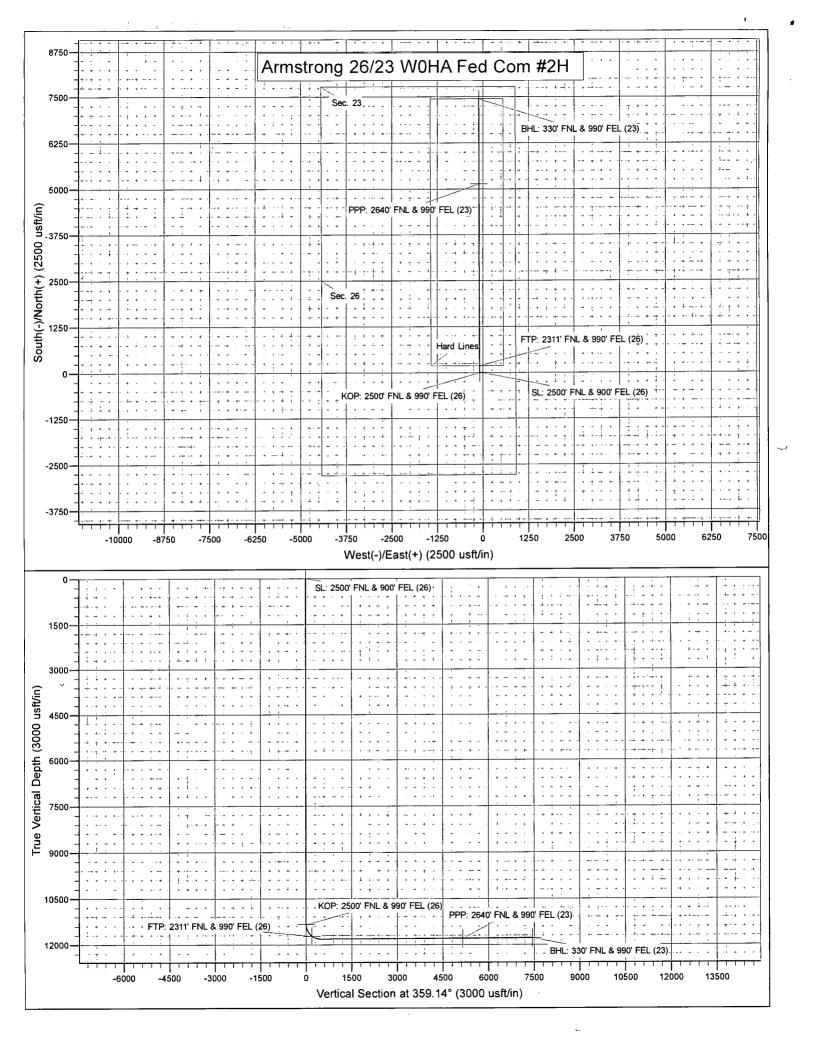
MD Reference: North Reference:

Survey Calculation Method:

Site Armstrong 26/23 W0HA Fed Com #2H WELL @ 3368.0usft (Original Well Elev) WELL @ 3368.0usft (Original Well Elev)

Grid

Design Targets									
Target Name - hit/miss target D - Shape	ip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 2500' FNL & 900' FE - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	401,221.00	724,102.00	32.1016607	-103.7431001
KOP: 2500' FNL & 990' F - plan hits target center - Point	0.00	0.00	11,341.0	0.0	-90.0	401,221.00	724,012.00	32.1016620	-103,7433908
FTP: 2311' FNL & 990' F - plan hits target center - Point	0.00	0.00	11,721.2	189.0	-90.6	401,410.00	724,011.44	32.1021815	-103.7433892
BHL: 330' FNL & 990' FE - plan hits target center - Point	0.00	0.00	11,788.0	7,448.0	-112.0	408,669.00	723,990.00	32.1221355	-103.7433301
PPP: 2640' FNL & 990' F - plan hits target center - Point	0.00	0.00	11,797.9	5,140.0	-105.2	406,361.00	723,996.81	32.1157911	-103.7433489



Mewbourne Oil Company Armstrong 26/23 W0HA Fed Com #2H Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

2. Casing Program

Hole Size	A STATE OF THE STATE OF	asing terval	Csg. Size	Weight (lbs)	Grade	Conn.	. SF. Collapse	SF. Burst	SF Jt Tension	SF Body Tension
	Ero m	To								
17.5"	0'	950'	13.375"	48 ,	H40	STC	1.77	3.98	7.06	11.86
12.25"	0'	3452'	9.625"	36	J55	LTC	1.13	1.96	2.92	3.64
12.25"	3452'	4220'	9.625"	40	L80	LTC	1.41	2.62	23.67	29.82
8.75"	0'	11900'	7"	26	HCP110	LTC	1.34	1.71	2.24	2.68
6.125"	1134	19062'	4.5"	13.5	P110	LTC	1.45	1.68	3.24	4.05
	0'									
BLM	1.125	1	1.6 Dr	y 1.6 Dr	у					
Minimu			1.8 We	et 1.8 W	et					
m										
Safety								_		
Factor								•		

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

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

Mewbourne Oil Company

Armstrong 26/23 W0HA Fed Com #2H

Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt.	Yld	H ₂ 0	500#	Slurry Description	
	e egil	lb/	ft3/	gal/	Comp.		
7 4	2.5	gal	sack	sk	Strength		
					(hours)		
Surf.	500	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.	640	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.	350	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM	
Stg 1	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer	
					ECP/DV to	ool @ 5485'	
Prod.	70	12.5	2.12	11	9 .	Lead: Class C + Salt + Gel + Extender + LCM	
Stg 2	100	14.8	1.34	6.3	8	Tail: Class C + Retarder	
Liner	310	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.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4020'	25%
Liner	11340'	25%

Mewbourne Oil Company Armstrong 26/23 W0HA Fed Com #2H Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	System Rated WP	7	Гуре		Tested to:
			Aı	nnular	X	2500#
			Blit	nd Ram	X	
12-1/4"	13-5/8"	5M	Pip	e Ram	X	5000#
			Double Ram			3000#
			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.

Secs. 23 & 26, T25S, R31E SL: 2500' FNL & 900' FEL (26)

BHL: 330' FNL & 990' FEL (23)

	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.		
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'	950'	FW Gel	8.6-8.8	28-34	N/C
950'	4220'	Saturated Brine	10.0	28-34	N/C
4220'	11780'	Cut Brine	8.6-9.5	28-34	N/C
11780'	11818'	OBM	9.5-12.0	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. MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.

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

6. Logging and Testing Procedures

Log	ging, Coring and Testing.			
X	X Will run GR/CNL from KOP (11340') 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.			

Secs. 23 & 26, T25S, R31E SL: 2500' FNL & 900' FEL (26)

BHL: 330' FNL & 990' FEL (23)

Drill stem test? If yes, explain
Coring? If yes, explain

Ado	litional logs planned	Interval
X	Gamma Ray	11340' (KOP) to TD
	Density	,
	CBL	
	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7374 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

Mewbourne Oil Company Armstrong 26/23 W0HA Fed Com #2H Secs. 23 & 26, T25S, R31E

SL: 2500' FNL & 900' FEL (26) BHL: 330' FNL & 990' FEL (23)

Is this a walking operation? If yes, describe.

Will be pre-setting casing? If yes, describe.

will be pre-setting casing?	ii yes, describe.
Attachments	
Directional Plan	
Other, describe	



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

SUPO Data Report

09/26/2019

APD ID: 10400038003

Well Type: OIL WELL

Submission Date: 01/16/2019

Highlighted data reflects the most

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 2H

recent changes

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Work Type: Drill

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

ARMSTRONG26 23W0HAFEDCOM2H existingroadmap 20190115093211.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

ARMSTRONG26 23W0HAFEDCOM2H_newroadmap_20190115093315.pdf

New road type: RESOURCE

Length: 226.49

Feet

Width (ft.): 30

Max slope (%): 3

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: None

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Well Name: ARMSTRONG 26/23 W0HA FED COM Well Number: 2H

Turnout? Y

Access surfacing type: OTHER

Access topsoil source: OFFSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth:

Offsite topsoil source description: Topsoil will be on edge of lease road.

Onsite topsoil removal process:

Access other construction information: None

Access miscellaneous information: None

Number of access turnouts: 3

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: None

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

ARMSTRONG26 23W0HAFEDCOM2H_existingwellmap_20190115093334.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Battery is offsite to the southeast of the well pad. 2246' of surface 2-7/8" steel flowline with a working pressure of 125# will be installed from well pad to production facility within 5' of lease road. **Production Facilities map:**

ARMSTRONG26_23W0HAFEDCOM2H_flowlinemap_20190115093354.pdf
ARMSTRONG26_23W0HAFEDCOM2H_productionfacilitymap_20190516103651.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Water source type: IRRIGATION

Water source use type:

INTERMEDIATE/PRODUCTION

CASING

SURFACE CASING

STIMULATION

DUST CONTROL

Source latitude: 32.53542

Source datum: NAD83

Water source permit type:

WATER WELL

Water source transport method:

TRÜCKING

Source land ownership: PRIVATE

Source transportation land ownership: COMMERCIA

Water source volume (barrels): 2014

Source volume (gal): 84588

Source volume (acre-feet): 0.2595907

Source longitude: -103:44969

Water source and transportation map:

ARMSTRONG26 23W0HAFEDCOM2H_watersourceandtransmap_20190115093624.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche

Construction Materials source location attachment:

ARMSTRONG26_23W0HAFEDCOM2H_calichesourceandtransmap_20190115093638.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940 barrels

Waste disposal frequency: One Time Only

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

Safe 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

FACILITY

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500

pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

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

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: ARMSTRONG 26/23 W0HA FED COM Well Number: 2H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

ARMSTRONG26_23W0HAFEDCOM2H_wellsitelayout_20190115093659.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Multiple Well Pad Name: ARMSTRONG 26/23 HA WELLS Type of disturbance: New Surface Disturbance

Multiple Well Pad Number: 2

Recontouring attachment:

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

Well pad proposed disturbance

(acres): 3.95

Road proposed disturbance (acres):

0.155

Powerline proposed disturbance

(acres): 1.025

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres):

1.205

Total proposed disturbance: 6.335

Well pad interim reclamation (acres):

Road interim reclamation (acres): 0

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

Other interim reclamation (acres):

1.205

Total interim reclamation: 3.229

Well pad long term disturbance

(acres): 1.926

Road long term disturbance (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

(acres): 0

Other long term disturbance (acres):

1.205

Total long term disturbance: 3.131

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

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

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 name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Seed Summary

Seed Type

Pounds/Acre

Total 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: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Well Name: ARMSTRONG 26/23 W0HA FED COM	Well Number: 2H
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Fee Owner: Pecos Valley Artesian Convservation	Fee Owner Address:
District Phone: (575)622-7000	Email:
Surface use plan certification: NO	
Surface use plan certification document:	
Surface access agreement or bond: Agreement	
Surface Access Agreement Need description: St	JA in place
Surface Access Bond BLM or Forest Service:	
BLM Surface Access Bond number:	
USFS Surface access bond number:	
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:

Operator Name: MEWBOURNE OIL COMPANY Well Name: ARMSTRONG 26/23 W0HA FED COM Well Number: 2H Fee Owner Address: Fee Owner: Pecos Valley Artesian Conservation District Email: Phone: (575)622-7000 Surface use plan certification: NO Surface use plan certification document: Surface access agreement or bond: Agreement Surface Access Agreement Need description: SUA in place **Surface Access Bond BLM or Forest Service: BLM Surface Access Bond number: USFS Surface access bond number:** 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:

USFS Ranger District:

USFWS Local Office:
Other Local Office:

USFS Forest/Grassland:

USFS Region:

Page 10 of 12

Well Name: ARMSTRONG 26/23 W0HA FED COM Well Number: 2H

Disturbance type: OTHER

Describe: Production Facility

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: NONE

Use a previously conducted onsite? YES

Previous Onsite information: DEC 14 2018 Met w/RRC Surveying & staked location @ 2530' FNL & 380' FEL, Sec 26, T25S, R31E, Eddy Co., NM. Location was unacceptable due to MOC battery & multiple buried pipelines. Re-staked location @ 2500' FNL & 900' FEL, Sec 26, T25S, R31E, Eddy Co., NM. (Elevation @ 3341'). Pad is 400 x 430. Topsoil W. Reclaim all sides 60'. Offsite battery to the SW. Location is in MOA/PA. Will require BLM onsite. Lat.: 32.10166154 N, Long.: - 103.74309972 W NAD83. (BPS) DEC 19 2018 Met w/Paul Murphy (BLM-NRS) & Kyle Rybacki (BLM-Cave/Karst). Location approved.

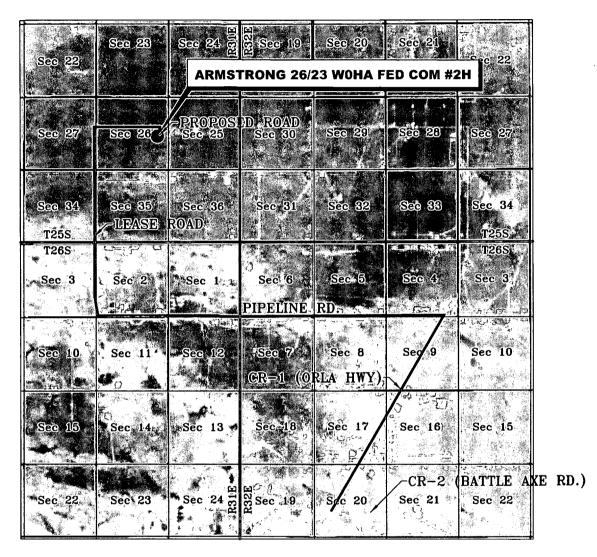
Other SUPO Attachment

Well Name: ARMSTRONG 26/23 W0HA FED COM Well Number: 2H

ARMSTRONG26_23W0HAFEDCOM2H_interimreclamationdiagram_20190115094048.pdf ARMSTRONG26_23W0HAFEDCOM2H_gascapturemap_20190115094208.pdf

VICINITY MAP

NOT TO SCALE



SECTION 26, TWP. 25 SOUTH, RGE. 31 EAST, N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: Mewbourne Oil Company LOCATION: 2500' FNL & 900' FEL

LEASE: Armstrong 26/23 WOHA Fed Com

WELL NO.: 2H

ELEVATION: 3341'

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REVISION DATE JOB NO.: LS18121332F DWG. NO.: 18121332-3



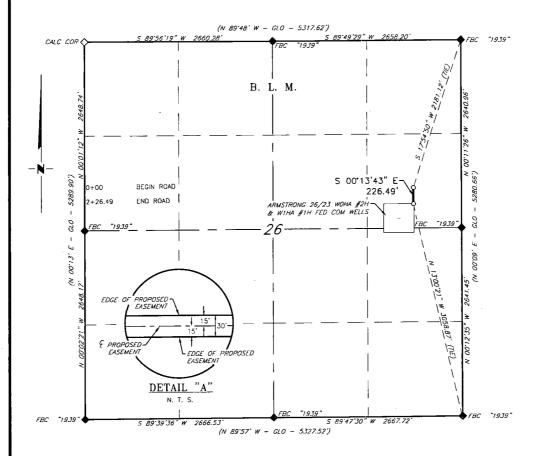
308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S. DATE: 12-05-18 SURVEYED BY: ML/TF DRAWN BY: GA APPROVED BY: RMH SHEET: 1 OF 1

MEWBOURNE OIL COMPANY PROPOSED ACCESS ROAD FOR THE

ARMSTRONG 26/23 WOHA #2H & W1HA #1H FED COM WELL LOCATIONS SECTION 26, T25S, R31E

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



DESCRIPTION

A strip of land 30 feet wide, being 226.49 feet or 13.727 rods in length, lying in Section 26, Township 25, South, Range 31 East, N. M. P. M., Eddy County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Northeast quarter of Section 26, which bears, S 17*54'50" W, 2,181.12 feet from a brass cap, stamped "1939", found for the Northeast corner of Section 26;

Thence S 00°13'43" E, 226.49 feet, to Engr. Sta. 2+26.49, the End of Survey, a point in the Northeast quarter of Section 26, which bears, N 13'00'21" W, 3,058.97 feet from a brass cap, stamped "1939", found for the Southeast corner of Section 26.

Said strip of land contains 0.156 acres, more or less, and is allocated by forties as follows:

SE 1/4 NE 1/4

13.727 Rods

0.156 Acres

SCALE: 1" = 1000' 0 500' 1000

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

LEGEND

(**\$**

RECORD DATA — GLO
FOUND MONUMENT
FOUND MONUMENT
AS NOTED
PROPOSED ACCESS ROAD

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

Robert M. Howell

Robert M. Howett NM PS 19680

19680 12/13/18 188/0NAL SURVIN

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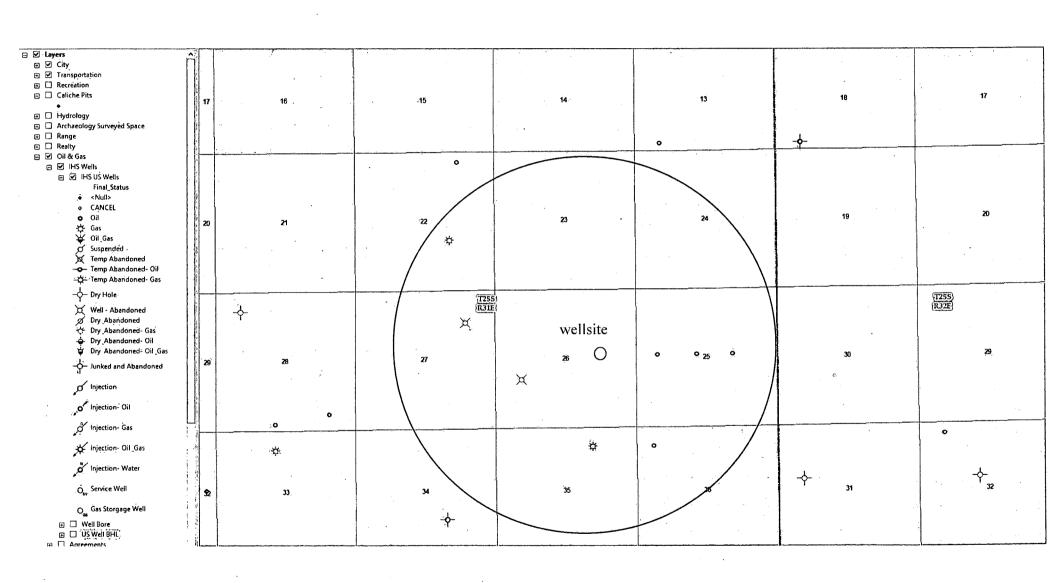
NO.	REVISION	DATE
JOB NO.: LS18121332R		
DWG. NO.: 18121332-5		



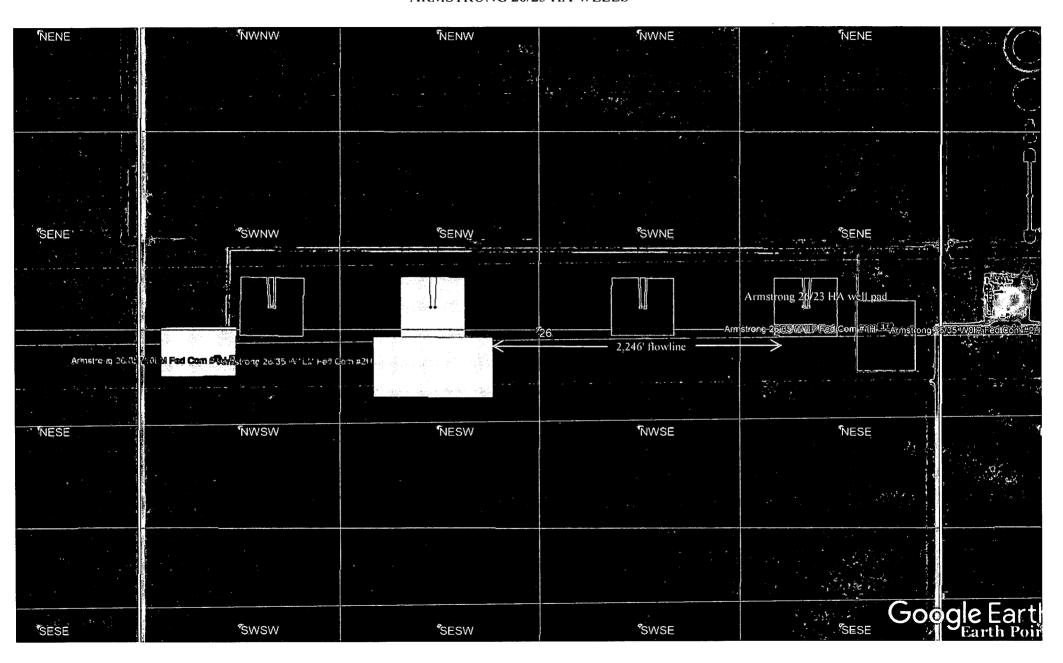
SCALE: 1" = 1000'
DATE: 12-11-18
SURVEYED BY: ML/TF
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1

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

EXISTING WELL MAP ARMSTRONG 26/23 W0HA FED COM #2H

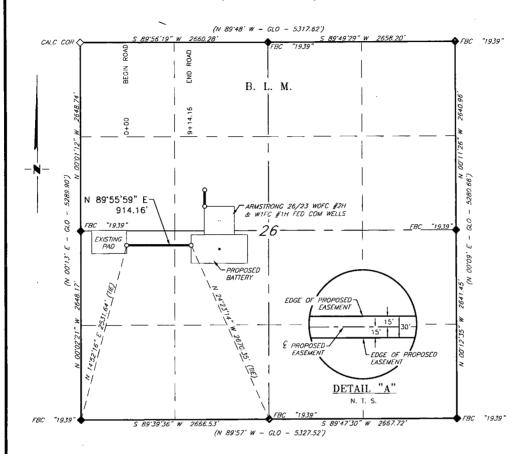


PROPOSED FLOWLINE FOR THE ARMSTRONG 26/23 HA WELLS



MEWBOURNE OIL COMPANY PROPOSED ACCESS ROAD FOR THE **ARMSTRONG 26/23 BATTERY** SECTION 26, T25S, R31E

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



DESCRIPTION

A strip of land 30 feet wide, being 914.16 feet or 55.404 rods in length, lying in Section 26, Township 25, South, Range 31 East, N. M. P. M., Eddy County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Southwest quarter of Section 26, which bears, N 14°52'16" E, 2,531.64 feet from a brass cap, stamped "1939", found for the Southwest corner of Section 26;

Thence N 89'55'59" E, 914.16 feet, to Engr. Sta. 9+14.16, the End of Survey, a point in the Southwest quarter of Section 26, which bears, N 24'23'14" W, 2,670.35 feet from a brass cap, stamped "1939", found for the South quarter corner of Section 26.

Said strip of land contains 0.630 acres, more or less, and is allocated by forties as follows:

NW 1/4 SW 1/4 NE 1/4 SW 1/4 41.249 Rods 14.155 Rods 0.469 Acres 0.161 Acres

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

LEGEND RECORD DATA - GLO

FOUND MONUMENT AS NOTED PROPOSED ACCESS ROAD

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

Robert M. Howell

12/06/18 10 TUS/ONAL SUR

M. HON

SEW METIC

19680

ON PART

NM PS 19680 Robert M. Howett

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NO.	REVISION	DATE
JOB NO.: LS18121328		
DWG. NO.: 18121328-6		



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

SCALE: 1" = 1000'
DATE: 12-03-18
SURVEYED BY: ML/TF
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1

MEWBOURNE OIL COMPANY SURVEY OF THE PROPOSED ARMSTRONG BATTERY **SECTION 26, T25S, R31E** N. M. P. M., EDDY COUNTY, NEW MEXICO 3338.4° 3331.4 N 89'55'51" E BATTERY LAT:32.1005805' N LON:103.7510494* W 320,000.00 SQ. FT. 7.346 ACRES P.O.B. S 89'55'51" W 800 3337.9' 3334.3 B. I. M. 27 S 89'39'36" W 2665.53' 34 35 (N 89°57' W - GLO - 2663.76') = 200 BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND. LEGEND DESCRIPTION RECORD DATA - GLO FOUND MONUMENT AS NOTED A tract of land situated within the North half of Section 26, Township 25 South, Range 31 East, N. M. P. M. Eddy County, New Mexico, across B. L. M. land, and being more particularly Δ M. HON described by metes and bounds as follows: BEGINNING at a point which bears, N 35°26'21" E, 2,697.65 feet from a brass cap, stamped "1939", found for the Southwest corner of Section 26 and being N 26'48'03" W, 2,444.66 feet SEW METIC from a brass cap, stamped "1939", found for the South quarter corner of Section 26; 19680 SSIONAL SUP Thence N 00°04'09" W, 400.00 feet, to a point; Thence N 89'55'51" E, 800.00 feet, to a point; I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared Thence S 00°04'09" E, 400.00 feet, to a point; 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. Thence S 89°55'51" W, 800.00 feet, to the Point of Beginning. Said tract of land contains 320,000 square feet or 7.346 acres, more or less, and is allocated by forties as follows: NE 1/4 SW 1/4 32,000.00 Sq. Ft. 7.346 Acres Robert M. Howell NM PS 19680 Robert M. Howett Copyright 2016 - All Rights Reserve SCALE: 1" = 200

NO. REVISION DATE

JOB NO.: LS18121328

DWG. NO.: 18121328-7



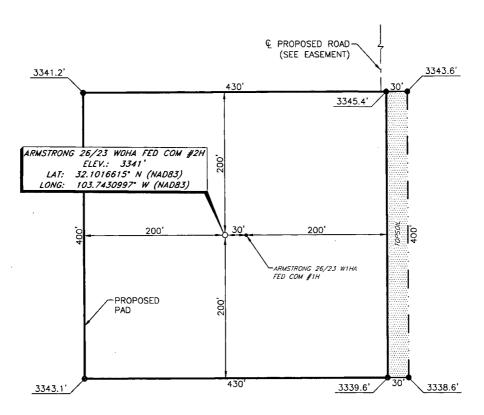
DATE: 12-03-18
SURVEYED BY: ML/TF
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1

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

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MEWBOURNE OIL COMPANY
ARMSTRONG 26/23 WOHA FED COM #2H
(2500' FNL & 900' FEL)
SECTION 26, T25S, R31E
N. M. P. M., EDDY CO., NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR-2 (Battle Axe Rd.) and CR-1 (Orla Hwy.);
Go Northeast on CR-1 approx. 3.1 miles to Pipeline Rd. on the left;
Turn left and go West approx. 4.8 miles to a lease road on the right;
Turn right and go North approx. 2.6 miles to a lease road on the right;
Turn right and go East approx. 0.9 miles to a proposed road on the right;
Turn right and go South approx. 427 feet to location on the right.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared a unclassified survey of a well location from an actual survey made on the grounder my direct supervision, said survey and plat meet the Min. Stds. for surveying in the State of N. M. and are true and correct to the best of the world with the state of N. M. and are true and correct to the best of the state of N. M. and the state of

BEARINGS ARE TO LOCAL M. HOWELT NM PS 19680

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NO. REVISION DATE
JOB NO.: LS18121332F
DWG. NO.:18121332-4

RRC

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

SCALE: 1" = 100'

DATE: 12-11-18

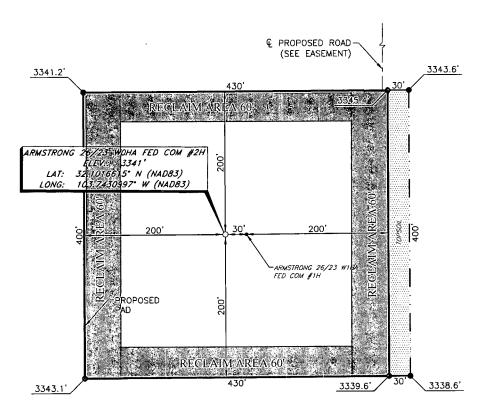
SURVEYED BY: ML/TF

DRAWN BY: GA

APPROVED BY: RMH

SHEET: 1 OF 1

MEWBOURNE OIL COMPANY
ARMSTRONG 26/23 WOHA FED COM #2H
(2500' FNL & 900' FEL)
SECTION 26, T25S, R31E
N. M. P. M., EDDY CO., NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR-2 (Battle Axe Rd.) and CR-1 (Orla Hwy.);
Go Northeast on CR-1 approx. 3.1 miles to Pipeline Rd. on the left;
Turn left and go West approx. 4.8 miles to a lease road on the right;
Turn right and go North approx. 2.6 miles to a lease road on the right;
Turn right and go East approx. 0.9 miles to a proposed road on the right;
Turn right and go South approx. 427 feet to location on the right.

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

NAD BE GRINGS ARE ROBERT M. HOWELT NM PS 19680

NO. REVISION DATE

JOB NO.: LS18121332F

DWG. NO.:18121332-4



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

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SCALE: 1" = 100'

DATE: 12-11-18

SURVEYED BY: ML/TF

DRAWN BY: GA

APPROVED BY: RMH

SHEET: 1 OF 1

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Number: 2H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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



Bond Info Data Report

APD ID: 10400038003

Operator Name: MEWBOURNE OIL COMPANY

Well Name: ARMSTRONG 26/23 W0HA FED COM

Well Type: OIL WELL

Submission Date: 01/16/2019

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Well Number: 2H

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: