#### NM OIL CONSERVATION ARTESIA DISTRICT

Form 3160-3 (June 2015)

FEB 2 5 2019

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

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR

5. Lease Serial No.

BUREAU OF LAND MANA	AGEMENT RECEIVED	NMNM036975	
APPLICATION FOR PERMIT TO D	RILL OR REENTER	6. If Indian, Allotee or Trib	e Name
a. Type of work:	EENTER	7. If Unit or CA Agreemen	t, Name and No.
	ther		
	ngle Zone Multiple Zone	8. Lease Name and Well N	
t. Type of Completion. Tryutauric Practuring	ingle Zone   Multiple Zone	KANSAS 21/28 WZLM F	ED COM
		3250/1	ÀT .
Name of Operator		9. APJ-Well No.	<del>)</del>
MEWBOURNE OIL COMPANY	14744	30-015	1-145763
a. Address	3b. Phone No. (include area code)	10 Field and Pool, or Exp	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
PO Box 5270 Hobbs NM 88240	(575)393-5905	WOLFCAMPYPURPLE	
Location of Well (Report location clearly and in accordance w		11. Sec., T. R. M. of Blk. a	
At surface SWNW / 2635 FNL / 330 FWL / LAT 32.203	1 / `	SEC 214 T24S / R28E /	NMP
At proposed prod. zone SWSW / 330 FSL / 330 FWL / L/	AT 32.1821057 / LONG -104 1000091		
4. Distance in miles and direction from nearest town or post offi 3 miles	ce*	12. County or Parish EDDY	13. State NM
5. Distance from proposed* 185 feet	16. No of acres in lease 17. Space	cing Unit dedicated to this we	ıı
location to nearest property or lease line, ft.	920 ( / 320	~	
(Also to nearest drig. unit line, if any)			
8. Distance from proposed location•		M/BIA Bond No. in file	
to nearest well, drilling, completed, applied for, on this lease, ft.	10509 feet./ 18058 feet FED: N	M1693	
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration	
3031 feet	08/10/2018	60 days	
7	24. Attachments		
The following, completed in accordance with the requirements of as applicable)	f Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule per	43 CFR 3162.3-3
	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Well plat certified by a registered surveyor.	4. Bond to cover the operation litem 20 above).	ons unless covered by an exist	ing bond on file (see
. A Surface Use Plan (if the location is on National Forest System	m Lands, the 5. Operator certification.		
SUPO must be filed with the appropriate Forest Service Office	6. Such other site specific inf BLM.	ormation and/or plans as may b	e requested by the
5. Signature	Name (Printed/Typed)	Date	<del></del>
(Electronic Submission)	Bradley Bishop / Ph: (575)393-59	905 05/1	5/2018
itle			
Regulatory			
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 02/2	2/2019
Title	Office		
Assistant/Field Manager Lands & Minerals	CARLSBAD		
application approval does not warrant or certify that the applicar	nt holds legal or equitable title to those right	ts in the subject lease which v	vould entitle the
pplicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n	nake it a crime for any person knowingly of	nd willfully to make to any de	nartment or agency
of the United States any false, fictitious or fraudulent statements			parametric or agency
		<u> </u>	
		7	
	7010	s N	

proval Date: 02/22/2019

\*(Instructions on page 2)

(Continued on page 2)

RW 2-25-19

#### **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.Ş.C. 396; 43 CRR 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.

#### **Additional Operator Remarks**

#### **Location of Well**

1. SHL: SWNW / 2635 FNL / 330 FWL / TWSP: 24S / RANGE: 28E / SECTION: 21 / LAT: 32.203333 / LONG: -104.1001392 ( TVD: 27 feet ) PPP: NWSW / 2340 FSL / 330 FWL / TWSP: 24S / RANGE: 28E / SECTION: 21 / LAT: 32.2023242 / LONG: -104.1000021 ( TVD: 10488 feet, MD: 10702 feet ) BHL: SWSW / 330 FSL / 330 FWL / TWSP: 24S / RANGE: 28E / SECTION: 28 / LAT: 32.1821057 / LONG: -104.1000021 ( TVD: 10509 feet, MD: 18058 feet )

#### **BLM Point of Contact**

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224 Email: tortiz@blm.gov

(Form 3160-3, page 3)

#### **Review and Appeal Rights**

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



(Form 3160-3, page 4)

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
MEWBOURNE OIL COMPANY
NMNM036975
KANSAS 21 28 W2LM FED COM 1H
2635'/N & 330'/W
330'/S & 330'/W
SECTION 21, T24S, R28E, NMPM
EDDY, NEW MEXICO

COA

H2S	C Yes	© No	
Potash	• None	O Secretary	C R-111-P
Cave/Karst Potential	CLow	○ Medium	• High
Variance	None	© Flex Hose	Other
Wellhead	C Conventional	Multibowl	© Both
Other	☐4 String Area	☐ Capitan Reef	□ WIPP
Other	Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	<b>☑</b> 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 425 feet (a minimum of 25 feet 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 calculates to 23%. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
  - ❖ In <u>High Cave/Karst Areas</u> 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.
  - b. 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)
  - Eddy County
    Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - ∠ Lea County
     Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)

- 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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.

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- 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 basin (8 hours) or potash (24 hours) or 500 pounds compressive strength,

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- 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 022119

## PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMNM036975
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
WEWBOURNE OIL COMPANY
NMNM036975
KANSAS 21 28 W2LM FED COM 1H
2635'/N & 330'/W
330'/W
SECTION 21, T24S, R28E, NMPM
EDDY

#### **TABLE OF CONTENTS**

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

□ General Provisions
☐ Permit Expiration
Archaeology, Paleontology, and Historical Sites
⊠ Special Requirements
Texas Hornshell Zone D
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
☐ Production (Post Drilling)
Well Structures & Facilities
☐ Interim Reclamation
Final Abandonment & Reclamation

#### I. GENERAL PROVISIONS

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

#### II. PERMIT EXPIRATION

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

## III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

#### IV. NOXIOUS WEEDS

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

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

#### V. SPECIAL REQUIREMENT(S)

#### **Texas Hornshell Zone D**

Oil and Gas and Associated Infrastructure Mitigation Measures for Zone D – CCA Boundary Requirements:

- The oil and gas Participant shall comply with SPCC requirements in accordance with 40 CFR Part 112.
- Provide CEHMM with the permit, lease grant, or other authorization form BLM, if applicable.
- Provide CEHMM with plats or other electronic media describing the new surface disturbance for the project.

#### 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

Page 3 of 10

Tanks are required for drilling operations: No Pits.

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

#### D. FEDERAL MINERAL MATERIALS PIT

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

#### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

#### F. EXCLOSURE FENCING (CELLARS & PITS)

#### **Exclosure Fencing**

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

#### G. ON LEASE ACCESS ROADS

#### **Road Width**

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

#### Surfacing

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

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

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

#### Crowning

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

#### Ditching

Ditching shall be required on both sides of the road.

#### **Turnouts**

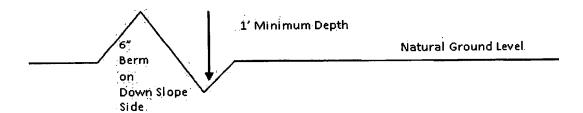
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

#### **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill 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.

Page 6 of 10

#### **Construction Steps**

- 1. Salvage topsoil
- 3. Redistribute topsoil

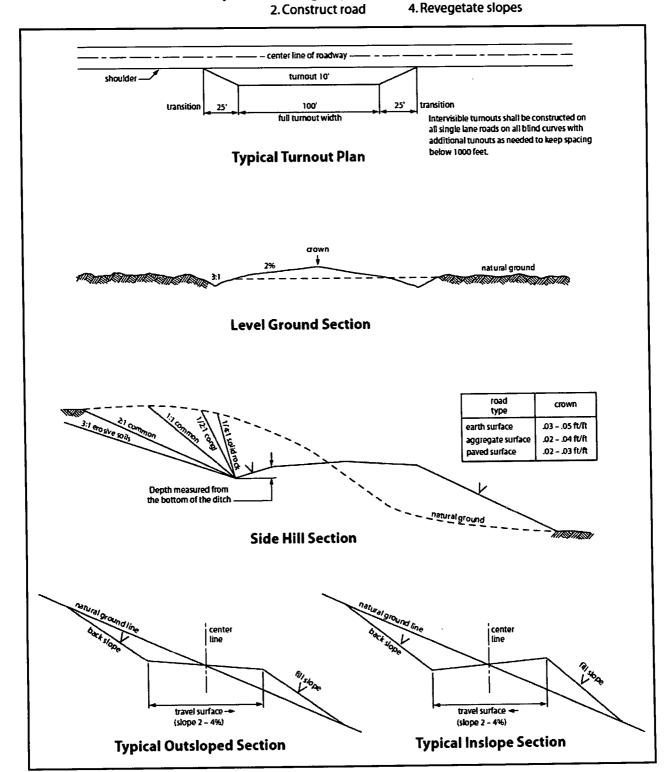


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

#### 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).

#### VIII. INTERIM RECLAMATION

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

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

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

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

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

#### IX. FINAL ABANDONMENT & RECLAMATION

Page 9 of 10

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).

Page 10 of 10



Email address:

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



#### **Operator Certification**

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

NAME: Bradley Bishop		Signed on: 05/15/2018
Title: Regulatory		
Street Address: PO Box	5270	
City: Hobbs	State: NM	Zip: 88240
Phone: (575)393-5905		
Email address: bbishop@	@mewbourne.com	
Field Repres	entative	
Representative Name	:	
Street Address:		
City:	State:	Zip:
Phone:		



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

## Application Data Report

APD ID: 10400030164

Submission Date: 05/15/2018

Highlighted data reflects the most

recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 1H

Well Name: KANSAS 21/28 W2LM FED COM

**Show Final Text** 

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

#### **Section 1 - General**

APD ID:

10400030164

Tie to previous NOS?

Submission Date: 05/15/2018

**BLM Office: CARLSBAD** 

User: Bradley Bishop

Title: Regulatory

Federal/Indian APD: FED

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

Lease number: NMNM036975

Lease Acres: 920

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: MEWBOURNE OIL COMPANY

Operator letter of designation:

Kansas21\_28W2LMFedCom1H\_operatorletterofdesignation\_20180510145630.pdf

#### 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

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: KANSAS 21/28 W2LM FED COM

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WOLFCAMP

Pool Name: PURPLE SAGE

**WOLFCAMP GAS** 

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

Well Name: KANSAS 21/28 W2LM FED COM Well Number: 1H

Describe other minerals:

Is the proposed well in a Helium production area? N

Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 2

Well Class: HORIZONTAL

KANSAS 21/28 W0LM & W2LM Number of Legs:

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 3 Miles

Distance to nearest well: 1895 FT

Distance to lease line: 185 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat:

Kansas21\_28W2LMFedCom1H\_wellplat\_20180510145606.pdf

Well work start Date: 08/10/2018

**Duration: 60 DAYS** 

#### **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	•																	$\overline{}$
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Тwsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	ΟΛΤ
SHL Leg #1	263 5	-	330			28E	21	Aliquot SWN W	32.20333 3	- 104.1001 392		MEXI	NEW MEXI CO	F	NMNM 036975	303 1	27	27
KOP Leg	255 5	FNL	330	FWL	24S	28E	21	Aliquot SWN W	32.20355 02	- 104.1001 419	EDD Y	NEW MEXI CO	1	F	NMNM 036975	- 689 8	993 0	992 9
PPP Leg #1	234 0	FSL	330	FWL	24S	28E	21	Aliquot NWS W	32.20232 42	- 104.1001 343	EDD Y		NEW MEXI CO	F	NMNM 036975	- 745 7	107 02	104 88

Well Name: KANSAS 21/28 W2LM FED COM

Well Number: 1H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	ΔΛΤ
EXIT Leg #1	330	FSL	330	FWL	248	28E	28	Aliquot SWS W	32.18210 57	- 104.1000 091	EDD Y	MEXI	NEW MEXI CO	F	NMNM 036975	- 747 8	180 58	105 09
BHL Leg #1	330	FSL	330	FWL	24S	28E	28	Aliquot SWS W	32.18210 57	- 104.1000 091	EDD Y	1	NEW MEXI CO		NMNM 036975	- 747 8	180 58	105 09

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

#### Statement Accepting Responsibility for Operations

Mewbourne Oil Company

Operator Name:

Street or Box:	P.O. Box 5270
City, State:	Hobbs, New Mexico
Zip Code:	88241
The undersigned accepts all concerning operations condu	applicable terms, conditions, stipulations, and restrictions acted of the leased land or portion thereof, as described below.
Lease Number:	NMNM 036975
Legal Description of Land:	Section 21, T24S, R28E, Eddy County, New Mexico. Location @ 2635 FNL & 330 FWL
Formation (if applicable):	Wolfcamp
Bond Coverage:	\$150,000
BLM Bond File:	NM1693 nationwide, NMB000919
Auti	horized Signature:  Name: Bradley Bishop

Title: Regulatory Manager

Date: <u>5-8-18</u>



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

## Drilling Plan Data Report

APD ID: 10400030164 Submission Date: 05/15/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: KANSAS 21/28 W2LM FED COM

Well Number: 1H

recent changes
Show Final Text

Highlighted data

reflects the most

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

#### **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3031	27	27		NONE	No
2	CASTILE	1951	1080	1080	SALT	NONE	No
3	LAMAR	516	2515	2515	LIMESTONE	NATURAL GAS,OIL	No
4	BELL CANYON	486	2545	2545	SANDSTONE	NATURAL GAS,OIL	No
5	CHERRY CANYON	-354	3385	3385	SANDSTONE	NATURAL GAS,OIL	No
6	MANZANITA	-464	3495	3495	LIMESTONE	NATURAL GAS,OIL	No
7	BRUSHY CANYON	-1579	4610	4610	SANDSTONE	NATURAL GAS,OIL	No
8	BONE SPRING LIME	-3159	6190	6190	LIMESTONE, SHALE	NATURAL GAS,OIL	No
9	BONE SPRING 1ST	-4059	7090	7090	SANDSTONE	NATURAL GAS,OIL	No
10	BONE SPRING 2ND	-4919	7950	7950	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 3RD	-5969	9000	9000	SANDSTONE	NATURAL GAS,OIL	No
12	WOLFCAMP	-6339	9370	9370	LIMESTONE, SHALE, SA NDSTONE	NATURAL GAS,OIL	Yes

#### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M

Rating Depth: 18058

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. A multi-bowl wellhead is being used. See attached schematic

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

Well Name: KANSAS 21/28 W2LM FED COM

tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out

Well Number: 1H

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.

#### **Choke Diagram Attachment:**

Kansas\_21\_28\_W2LM\_Fed\_1H\_5M\_BOPE\_Choke\_Diagram\_20180515140237.pdf
Kansas\_21\_28\_W2LM\_Fed\_1H\_Flex\_Line\_Specs\_20180515140238.pdf

#### **BOP Diagram Attachment:**

Kansas\_21\_28\_W2LM\_Fed\_1H\_5M\_BOPE\_Schematic\_20180515140349.pdf
Kansas\_21\_28\_W2LM\_Fed\_1H\_Multi\_Bowl\_WH\_20180515140350.pdf

#### **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	425	0	425	3058		425	H-40	48	STC	3.48	7.83		15.7 8	DRY	26.5 2
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2440	0	2440	3058		2440	J-55	36	LTC	1.59	2.77	DRY	5.16	DRY	6.42
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	10630	0	10502	3058		10630	P- 110	26	LTC	1.51	1.93	DRY	2.35	DRY	3
4	LINER	6.12 5	4.5	NEW	API	N	9930	18058	9930	10509			8128	P- 110	13.5	LTC	1.5	1.75	DRY	3.08	DRY	3.85

#### **Casing Attachments**

Operator Name: MEWBOURNE OIL COMPANY Well Number: 1H Well Name: KANSAS 21/28 W2LM FED COM **Casing Attachments** Casing ID: 1 **String Type:**SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s):  $Kansas\_21\_28\_W2LM\_Fed\_1H\_Csg\_Assumptions\_20180515140815.pdf$ Casing ID: 2 **String Type:**INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s):  $Kansas\_21\_28\_W2LM\_Fed\_1H\_Csg\_Assumptions\_20180515141528.pdf$ String Type: PRODUCTION Casing ID: 3 **Inspection Document: Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Kansas\_21\_28\_W2LM\_Fed\_1H\_Csg\_Assumptions\_20180515143845.pdf

Well Name: KANSAS 21/28 W2LM FED COM Well Number: 1H

#### **Casing Attachments**

Casing ID: 4

String Type:LINER

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Kansas\_21\_28\_W2LM\_Fed\_1H\_Csg\_Assumptions\_20180515144106.pdf

#### **Section 4 - Cement**

				<u>!</u>							
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	240	155	2.12	12.5	329	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		240	425	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1800	345	2.12	12.5	731	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1800	2440	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3495	2240	2860	60	2.12	12.5	127	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		2860	3495	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	3495	3495	8139	415	2.12	12.5	880	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		8139	1063 0	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9930	1805 8	330	2.97	11.2	980	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Well Name: KANSAS 21/28 W2LM FED COM Well Number: 1H

#### **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

#### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	425	SPUD MUD	8.6	8.8							
425	2440	SALT SATURATED	10	10							
2440	9929	WATER-BASED MUD	8.6	9.7							
9929	1050 9	OIL-BASED MUD	10	12							

#### Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (9930') to surface

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

CNL,DS,GR,MWD,MUDLOG

Coring operation description for the well:

None

Well Name: KANSAS 21/28 W2LM FED COM Well Number: 1H

#### Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6558

Anticipated Surface Pressure: 4477.46

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:

Kansas\_21\_28\_W2LM\_Fed\_1H\_H2S\_Plan\_20180515145104.pdf

#### Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

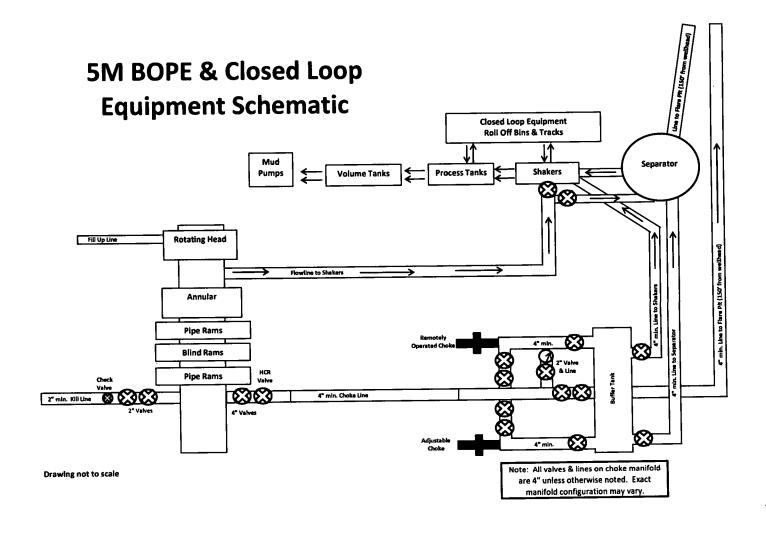
Kansas\_21\_28\_W2LM\_Fed\_1H\_Dir\_Plot\_20180515145134.pdf Kansas\_21\_28\_W2LM\_Fed\_1H\_Dir\_Plan\_20180515145135.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Kansas\_21\_28\_W2LM\_Fed\_1H\_Drlg\_Program\_20180515145144.doc

Other Variance attachment:





GATES E & S NORTH AMERICA, INC. **134 44TH STREET** 

**CORPUS CHRISTI, TEXAS 78405** 

PHONE: 361-887-9807 361-887-0812

EMAIL: Tim.Cantu@gates.com

www.gates.com WEB:

#### 10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:

Customer Ref.: Invoice No. :

AUSTIN DISTRIBUTING 4060578 500506

Test Date:

Hose Serial No.:

4/30/2015

D-043015-7

Created By:

JUSTIN CROPPER

Product Description:

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

End Fitting 1:

4 1/16 10K FLG 4773-6290 Gates Part No. : 10,000 PSI Working Pressure:

End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 10K FLG

L36554102914D-043015-7

15,000 PSI

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

Quality Manager:

Date:

Signature:

QUALITY

4/30/2015

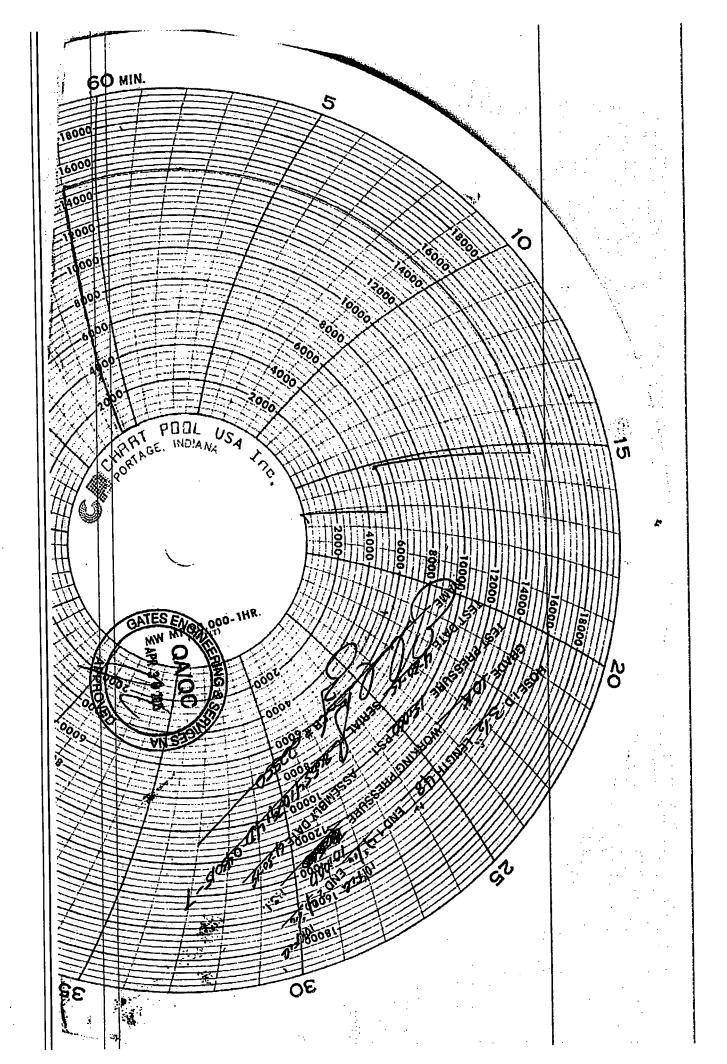
Production:

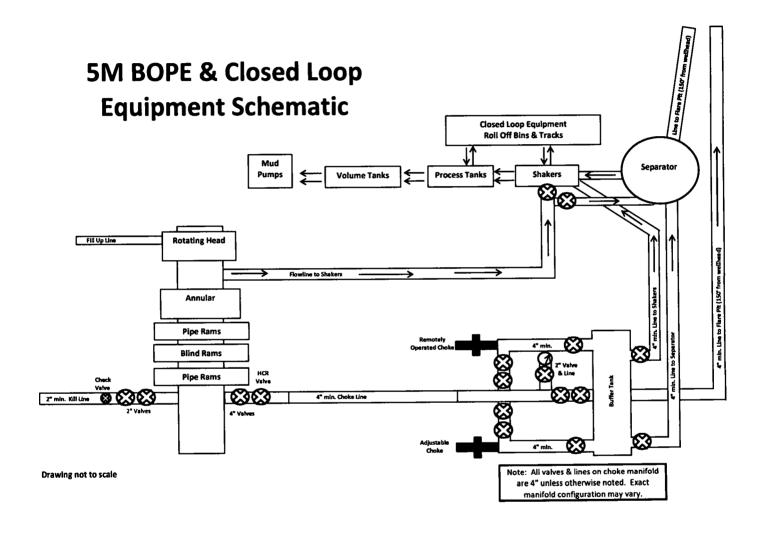
Date:

Signature :

**PRODUCTION** 









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

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

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

Quality Manager:

Date:

Signature:

QUALITY

4/30/2015

Production:

Date:

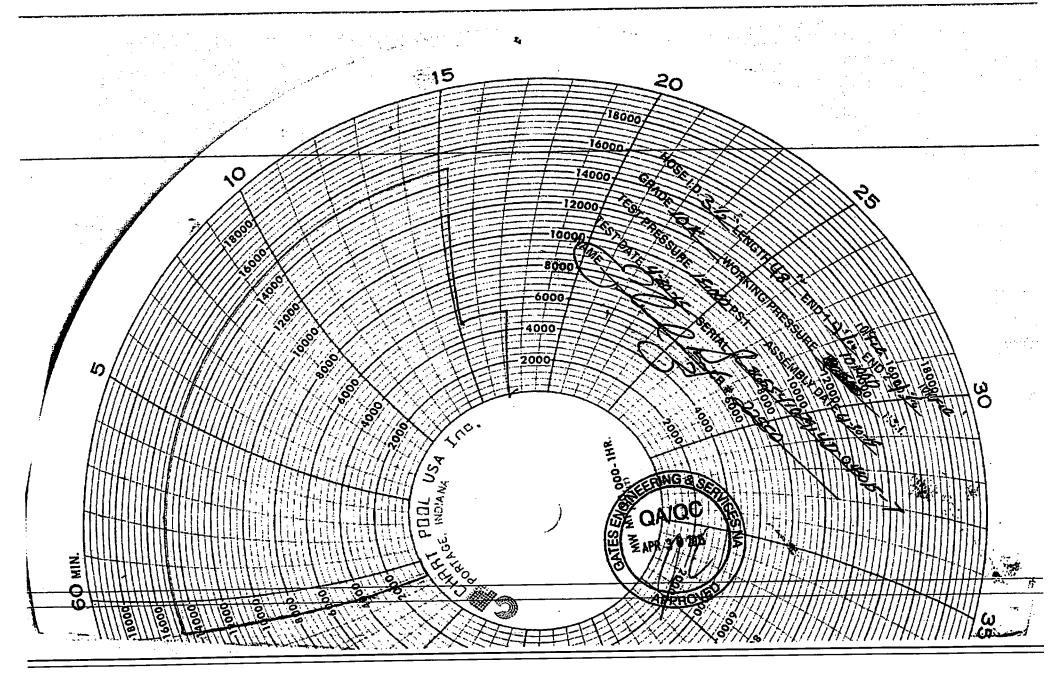
Signature :

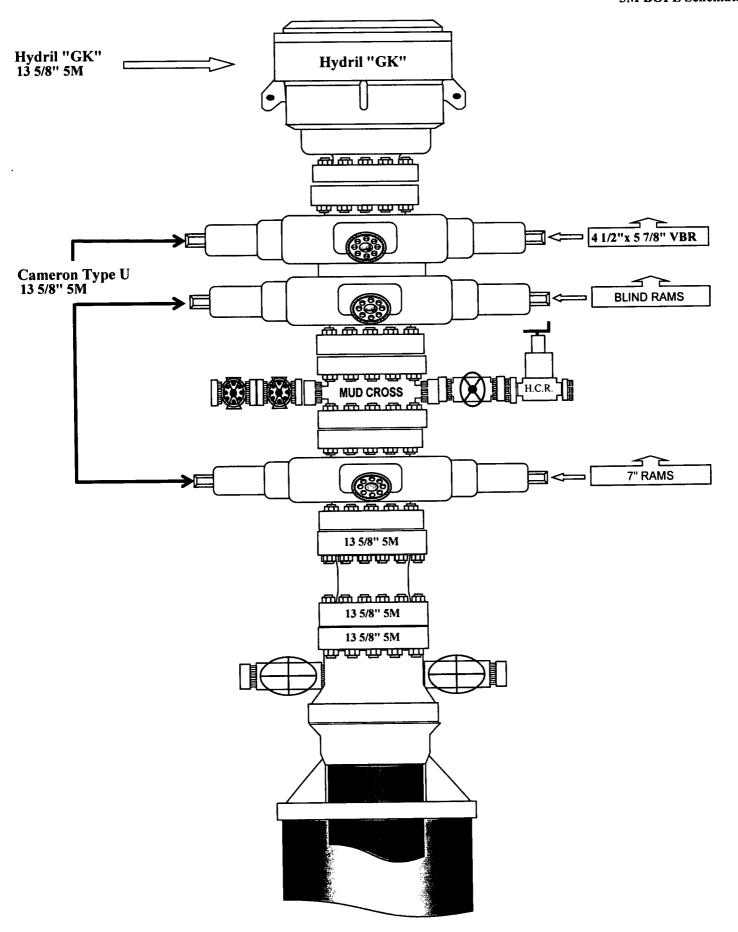
**PRODUCTION** 

4/30/2015

Forn PTC - 01 Rev.0

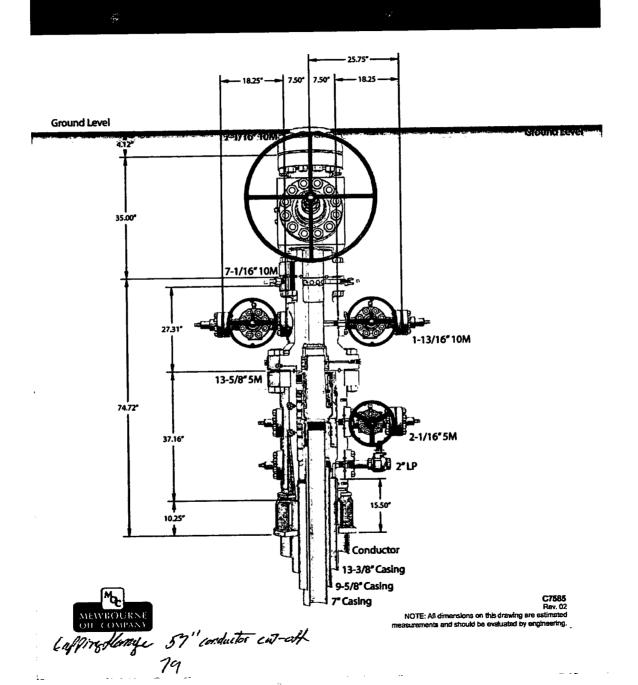


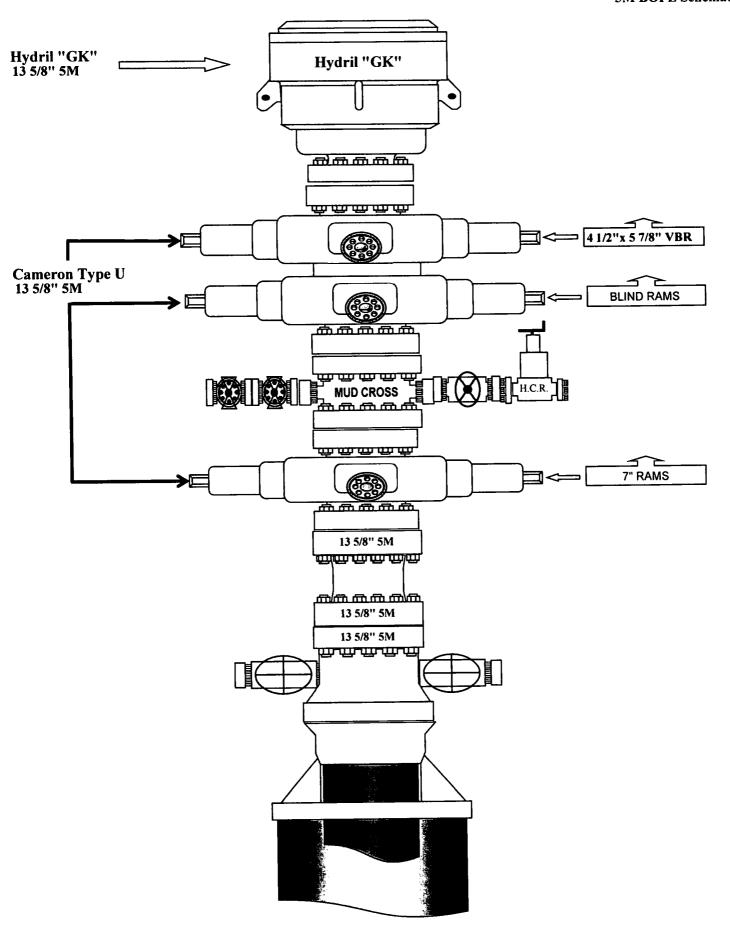


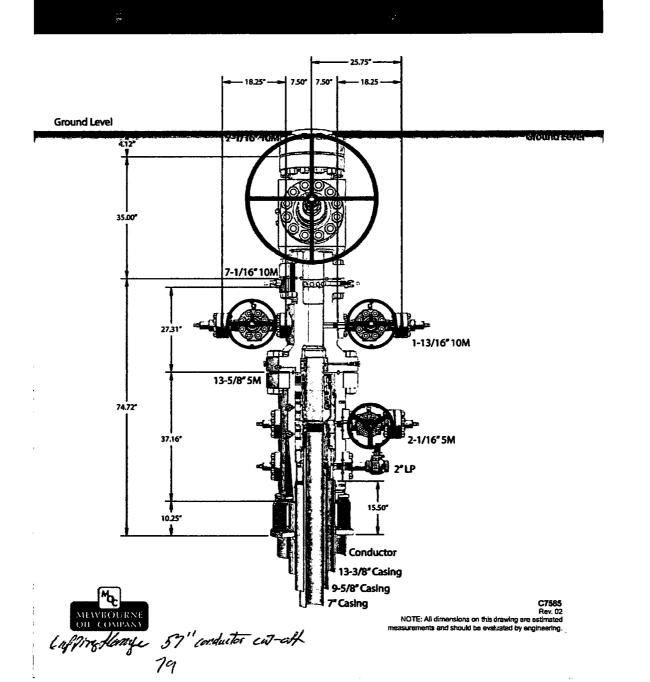


CAMERON
A Schlamberger Company

13-5/8" MN-DS Wellhead System







SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

## **Casing Program**

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	425'	13.375"	48	H40	STC	3.48	7.83	15.78	26.52
12.25"	0'	2440'	9.625"	36	J55	LTC	1.59	2.77	5.16	6.42
8.75"	0'	10,630'	7"	26	HCP110	LTC	1.51	1.93	2.35	3.00
6.125"	9930'	18,058'	4.5"	13.5	P110	LTC	1.50	1.75	3.08	3.85
		1		BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry	1.6 Dry
						•			1.8 Wet	1.8 Wet

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

	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?  If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	N
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 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

## **Casing Program**

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	425'	13.375"	48	H40	STC	3.48	7.83	15.78	26.52
12.25"	0'	2440'	9.625"	36	J55	LTC	1.59	2.77	5.16	6.42
8.75"	0'	10,630'	7"	26	HCP110	LTC	1.51	1.93	2.35	3.00
6.125"	9930'	18,058'	4.5"	13.5	P110	LTC	1.50	1.75	3.08	3.85
	7,700	1 1 9,900		L	imum Safe	ty Factor	1.125	1	1.6 Dry	1.6 Dry
						•			1.8 Wet	1.8 Wet

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

	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?  If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	<u> </u>
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

# **Casing Program**

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	425'	13.375"	48	H40	STC	3.48	7.83	15.78	26.52
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6.125"	9930'	18,058'	4.5"	13.5	P110	LTC	1.50	1.75	3.08	3.85
				BLM Min	imum Safet	y Factor	1.125	1	1.6 Dry	1.6 Dry
						-	Ì		1.8 Wet	1.8 Wet

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

	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?  If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	N
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 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If ves, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

## **Casing Program**

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)	i		Collapse	Burst	Tension	Tension
17.5"	0'	425'	13.375"	48	H40	STC	3.48	7.83	15.78	26.52
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6.125"	9930'	18,058'	4.5"	13.5	P110	LTC	1.50	1.75	3.08	3.85
	<u> </u>	1 /		BLM Min	imum Safet	ty Factor	1.125	1	1.6 Dry	1.6 Dry
						•			1.8 Wet	1.8 Wet

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

	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?  If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	N
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 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

# Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company

#### 1. General Requirements

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

## 2. Hydrogen Sulfide Training

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

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

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

- 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.

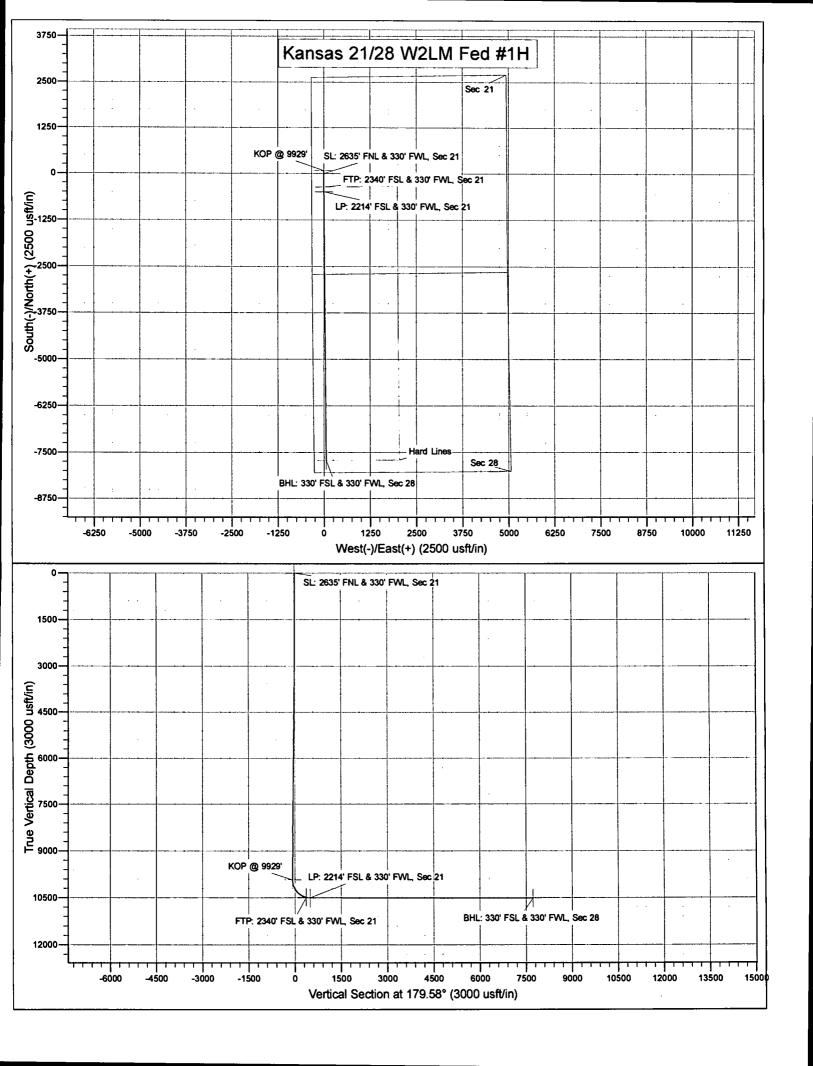
#### 7. Well Testing

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 Fax 2 <sup>nd</sup> Fax	575-393-5905 575-397-6252 575-393-7259
District Manager	Robin Terrell Frosty Lathan	575-390-4816 575-390-4103
Drilling Superintendent	Bradley Bishop Wesley Noseff	575-390-6838 575-441-0729
Drilling Foreman	wesley Moseli	3/3-441-0/2/



# **Mewbourne Oil Company**

Eddy County, New Mexico NAD 83 Kansas 21/28 W2LM Fed #1H Sec 21, T24S, R28E

SL: 2635' FNL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

Plan: Design #1

# **Standard Planning Report**

27 April, 2018

TVD Reference:

MD Reference:

System Datum:

North Reference:

Local Co-ordinate Reference:

**Survey Calculation Method:** 

437,785.00 usft

613,465.00 usft

Database:

Hobbs

Company:

Mewbourne Oil Company

Project: Site:

Eddy County, New Mexico NAD 83 Kansas 21/28 W2LM Fed #1H

Well:

Sec 21, T24S, R28E

Weilbore:

BHL: 330' FSL & 330' FWL, Sec 28

Design:

Design #1

**Project** 

Site

Well

Eddy County, New Mexico NAD 83

Map System:

US State Plane 1983 North American Datum 1983

Geo Datum: Map Zone:

New Mexico Eastern Zone

Kansas 21/28 W2LM Fed #1H

Site Position:

Well Position

Position Uncertainty:

**Position Uncertainty** 

From:

+N/-S

+E/-W

Map

Sec 21, T24S, R28E

Easting: 0.0 usft

0.0 usft

0.0 usft

0.0 usft

Northing:

Slot Radius:

13-3/16"

437,785.00 usft Northing: 613,465.00 usft Easting:

3,058.0 usft

6.98

Latitude:

Longitude:

**Grid Convergence:** 

Longitude: **Ground Level:** 

Latitude:

Grid

Minimum Curvature

Mean Sea Level

3,031.0 usft

32.2033330

32.2033330

-104.1001392

0.12 °

-104.1001392

Wellbore

BHL: 330' FSL & 330' FWL, Sec 28

IGRF2010

Magnetics

Model Name

Sample Date

Wellhead Elevation:

Declination (°)

**Dip Angle** (°)

Field Strength (nT)

47,866

Design

Design #1

**Audit Notes:** 

Version:

Depth From (TVD)

Phase:

**PROTOTYPE** 

Tie On Depth: +E/-W

Direction

59.91

+N/-S **Vertical Section:** (usft) (usft) (usft) 0.0 0.0

4/27/2018

0.0

(°) 179.58

0.0

Site Kansas 21/28 W2LM Fed #1H

WELL @ 3058.0usft (Original Well Elev)

WELL @ 3058.0usft (Original Well Elev)

Measured			Vertical			Dogleg	Bulld	Turn		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (ueft)	+E/-W (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,540.8	0.61	359.27	2,540.8	0.2	0.0	1.50	1.50	0.00	359.27	
9,888.6	0.61	359.27	9,888.2	78.8	-1.0	0.00	0.00	0.00	0.00	
9.929.5	0.00	0.00	9,929.0	79.0	-1.0	1.50	-1.50	0.00	180.00	KOP @ 9929'
10,828.9	89.94	179.57	10,502.0	-493.4	3.3	10.00	10.00	0.00	179.57	
18,057.7	89.94	179.57	10,509.0	-7,722.0	57.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 330

Database:

Hobbs

Company:

Mewbourne Oil Company

Project: Site:

Eddy County, New Mexico NAD 83 Kansas 21/28 W2LM Fed #1H

Well: Wellbore: Sec 21, T24S, R28E

Design:

BHL: 330' FSL & 330' FWL, Sec 28

Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

**Survey Calculation Method:** 

Site Kansas 21/28 W2LM Fed #1H

WELL @ 3058.0usft (Original Well Elev) WELL @ 3058.0usft (Original Well Elev)

Grid

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	L & 330' FWL, S	ec 21							
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,540.8	0.61	359.27	2,540.8	0.2	0.0	-0.2	1.50	1.50	0.00
2,600.0	0.61	359.27	2,600.0	0.9	0.0	-0.9	0.00	0.00	0.00
2,700.0	0.61	359.27	2,700.0	1.9	0.0	-1.9	0.00	0.00	0.00
2,800.0	0.61	359.27	2,800.0	3.0	0.0	-3.0	0.00	0.00	0.00
2,900.0	0.61	359.27	2,900.0	4.1	-0.1	-4.1	0.00	0.00	0.00
3,000.0	0.61	359.27	3,000.0	5.1	-0.1	-5.1	0.00	0.00	0.00
3,100.0	0.61	359.27	3,100.0	6.2	-0.1	-6.2	0.00	0.00	0.00
3,200.0	0.61	359.27	3,200.0	7.3	-0.1	-7.3	0.00	0.00	0.00
3,300.0	0.61	359.27	3,300.0	8.3	-0.1	-8.3	0.00	0.00	0.00
3,400.0	0.61	359.27	3,400.0	9.4	-0.1		0.00		0.00
3,500.0	0.61	359.27	3,499.9	10.5	-0.1		0.00		0.00
3,600.0	0.61	359.27	3,599.9	11.5	-0.1		0.00		0.00
3,700.0	0.61	359.27	3,699.9	12.6	-0.2		0.00		0.00
3,800.0	0.61	359.27	3,799.9	13.7	-0.2		0.00		0.00
3,900.0	0.61	359.27	3,899.9	14.8	-0.2		0.00		0.00
4,000.0	0.61	359.27	3,999.9	15.8	-0.2				0.00
4,100.0	0.61	359.27	4,099.9	16.9	-0.2				0.00
4,200.0	0.61	359.27	4,199.9	18.0	-0.2				0.00
4,300.0	0.61	359.27	4,299.9	19.0	-0.2				0.00
4,400.0	0.61	359.27	4,399.9	20.1	-0.3				0.00
4,500.0			4,499.9	21.2	-0.3				0.00
4,600.0			4,599.9	22.2	-0.3				0.00
4,700.0			4,699.9	23.3	-0.3				0.00
4,800.0			4,799.9	24.4	-0.3				0.00
4,900.0	0.61	359.27	4,899.9	25.4	-0.3				0.00
5,000.0			4,999.9	26.5	-0.3	-26.5	0.00	0.00	0.00

Database:

Hobbs

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

 Site:
 Kansas 21/28 W2LM Fed #1H

 Well:
 Sec 21, T24S, R28E

Wellbore: BHL: 330' FSL & 330' FWL, Sec 28

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site Kansas 21/28 W2LM Fed #1H WELL @ 3058.0usft (Original Well Elev) WELL @ 3058.0usft (Original Well Elev)

Grid

anned Surve	у									
Measu Dep			Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usf		nclination (°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5,	200.0	0.61	359.27	5,199.8	28.7	-0.4	-28.7	0.00	0.00	0.00
5,	300.0	0.61	359.27	5,299.8	29.7	-0.4	-29.7	0.00	0.00	0.00
5.	400.0	0.61	359.27	5,399.8	30.8	-0.4	-30.8	0.00	0.00	0.00
	500.0	0.61	359.27	5,499.8	31.9	-0.4	-31.9	0.00	0.00	0.00
5,	600.0	0.61	359.27	5,599.8	32.9	-0.4	-32.9	0.00	0.00	0.00
5,	700.0	0.61	359.27	5,699.8	34.0	-0.4	-34.0	0.00	0.00	0.00
5,	0.008,	0.61	359.27	5,799.8	35.1	-0.4	-35.1	0.00	0.00	0.00
5,	900.0	0.61	359.27	5,899.8	36.1	-0.5	-36.1	0.00	0.00	0.00
	0.000	0.61	359.27	5,999.8	37.2	-0.5	-37.2	0.00	0.00	0.00
	100.0	0.61	359.27	6,099.8	38.3	-0.5	-38.3	0.00	0.00	0.00
	,200.0	0.61	359.27	6,199.8	39.3	-0.5	-39.3	0.00	0.00	0.00 0.00
6,	,300.0	0.61	359.27	6,299.8	40.4	-0.5	-40.4	0.00	0.00	
6.	,400.0	0.61	359.27	6,399.8	41.5	-0.5	-41.5	0.00	0.00	0.00
	,500.0	0.61	359.27	6,499.8	42.6	-0.5	-42.6	0.00	0.00	0.00
	600.0	0.61	359.27	6,599.8	43.6	-0.6	-43.6	0.00	0.00	0.00
	,700.0	0.61	359.27	6,699.8	44.7	-0.6	-44.7	0.00	0.00	0.00
6	,800.0	0.61	359.27	6,799.8	45.8	-0.6	-45.8	0.00	0.00	0.00
6	,900.0	0.61	359.27	6,899.7	46.8	-0.6	-46.8	0.00	0.00	0.00
	.000.0	0.61	359.27	6,999.7	47.9	-0.6	-47.9	0.00	0.00	0.00
	,100.0	0.61	359.27	7,099.7	49.0	-0.6	-49.0	0.00	0.00	0.00
	,200.0	0.61	359.27	7,199.7	50.0	-0.6	-50.0	0.00	0.00	0.00
	,300.0	0.61	359.27	7,299.7	51.1	-0.6	-51.1	0.00	0.00	0.00
7	,400.0	0.61	359.27	7,399.7	52.2	-0.7	-52.2	0.00	0.00	0.00
	,500.0	0.61	359.27	7,499.7	53.2	-0.7	-53.2	0.00	0.00	0.00
	,600.0	0.61	359.27	7,599.7	54.3	-0.7	-54.3	0.00	0.00	0.00
	700.0	0.61	359.27	7,699.7	55.4	-0.7	-55.4	0.00	0.00	0.00
7	,800.0	0.61	359.27	7,799.7	56.4	-0.7	-56.5	0.00	0.00	0.00
7	,900.0	0.61	359.27	7,899.7	57.5	-0.7	-57.5	0.00	0.00	0.00
	3,000.0	0.61	359.27	7,999.7	58.6	-0.7	-58.6	0.00	0.00	0.00
	3,100.0	0.61	359.27	8,099.7	59.7	-0.8	-59.7	0.00	0.00	0.00
	3,200.0	0.61	359.27	8,199.7	60.7	-0.8	-60.7	0.00	0.00	0.00
	3,300.0	0.61	359.27	8,299.7	61.8	-0.8	-61.8	0.00	0.00	0.00
٥	3,400.0	0.61	359.27	8.399.7	62.9	-0.8	-62.9	0.00	0.00	0.00
	3,500.0	0.61	359.27	8,499.7	63.9	-0.8	-63.9	0.00	0.00	0.00
	3,600.0	0.61	359.27	8,599.7	65.0	-0.8	-65.0	0.00	0.00	0.00
	3,700.0	0.61	359.27	8,699.6	66.1	-0.8	-66.1	0.00	0.00	0.00
	0.008,8	0.61	359.27	8,799.6	67.1	-0.8	-67.1	0.00	0.00	0.00
5	3,900.0	0.61	359.27	8,899.6	68.2	-0.9	-68.2	0.00	0.00	0.00
	9,000.0	0.61	359.27	8,999.6	69.3	-0.9	-69.3	0.00	0.00	0.00
	9,100.0	0.61	359.27	9,099.6	70.3	-0.9	-70.4	0.00	0.00	0.00
	9,200.0	0.61	359.27	9,199.6	71.4	-0.9	-71.4	0.00	0.00	0.00
	300.0	0.61	359.27	9,299.6	72.5	-0.9	-72.5	0.00	0.00	0.00
	9,400.0	0.61	359.27	9,399.6	73.6	-0.9	-73.6	0.00	0.00	0.00
	9,500.0	0.61	359.27	9,499.6	74.6	-0.9	-74.6	0.00	0.00	0.00
	9,600.0	0.61	359.27	9,599.6	75.7	-1.0		0.00		0.00
	9,700.0	0.61	359.27	9,699.6	76.8	-1.0		0.00		0.00
	9,800.0	0.61	359.27	9,799.6	77.8	-1.0	-77.8	0.00	0.00	0.00
	9.888.6	0.61	359.27	9,888.2	78.8	-1.0	-78.8	0.00	0.00	0.00
	9,000.0 9,900.0	0.61	359.27	9,899.6	78.9	-1.0				0.00
	9,929.5	0.00	0.00	9,929.0	79.0	-1.0			-1.50	0.00
	P @ 9929'		5.5	-,						
	0,000.0	7.05	179.57	9,999.4	74.7	-1.0	-74.7			0.00
	0,100.0	17.05		10,097.1	53.8	-0.8		10.00	10.00	0.00

Database: Company: Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Kansas 21/28 W2LM Fed #1H

Project: Site: Well:

Sec 21, T24S, R28E

Wellbore: BHL: 330' FSL & 330' FWL, Sec 28

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method: Site Kansas 21/28 W2LM Fed #1H WELL @ 3058.0usft (Original Well Elev) WELL @ 3058.0usft (Original Well Elev)

Grid

Cush   P   P   Cush   Cush   Cush   Cush   Cush   Cush   P   P   P   P   P   P   P   P   P	Measured			Vertical		. == 144	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
10,200 37,05 179,57 10,274,3 -36.7 -0.1 36.7 10.00 10.00 0.00 10,400 47,05 179,57 10,346,4 -103.6 0.4 103.6 10.00 10.00 0.00 10,500 57,05 179,57 10,467,8 -367,0 16. 270,6 16. 270,6 10.00 10.00 0.00 10,500 57,05 179,57 10,467,8 -367,0 2.3 365,6 10.00 10.00 0.00 10,700 77,05 179,57 10,467,8 -367,0 2.3 365,6 10.00 10.00 0.00 10,700 77,05 179,57 10,467,8 -367,0 2.3 365,6 10.00 10.00 0.00 10,700 77,05 179,57 10,467,8 -367,0 2.3 365,6 10.00 10.00 0.00 10,700 77,05 179,57 10,501,2 44,5 3.0 484,5 10.00 10.00 0.00 10,00 0.00 0.				•						
10,300.0 37.05 179.57 10,274.3 -36.7 -0.1 36.7 10.00 10.00 0.00 10,300.0 \$7.05 179.57 10,348.4 -103.6 0.4 103.6 10.00 10.00 0.00 10,500.0 \$7.05 179.57 10,469.9 -182.3 0.9 182.3 10.00 10.00 0.00 10,500.0 \$7.05 179.57 10,465.7 -270.6 1.6 270.6 10.00 10.00 0.00 10,500.0 \$7.05 179.57 10,465.7 -270.6 1.6 270.6 10.00 10.00 0.00 10,701.5 77.20 179.57 10,487.4 -365.6 2.3 365.6 10.00 10.00 0.00 10,701.5 77.20 179.57 10,487.8 -387.0 2.3 367.0 10.00 10.00 0.00 10,701.5 77.20 179.57 10,501.2 -464.5 3.0 464.5 10.00 10.00 0.00 10,701.5 77.20 179.57 10,501.2 -464.5 3.0 464.5 10.00 10.00 0.00 10.00 87.05 179.57 10,501.2 -464.5 3.0 464.5 10.00 10.00 10.00 0.00 10,200 87.05 179.57 10,502.1 -564.5 3.0 464.5 10.00 10.00 10.00 0.00 11,000 89.4 179.57 10,502.1 -564.5 3.8 564.5 0.00 0.00 10.00 0.00 11,000 89.4 179.57 10,502.1 -564.5 3.8 564.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.1 -564.5 3.8 564.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.3 -764.5 5.3 764.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 6.8 684.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 7.5 1,164.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.5 -1,064.5 7.5 1,164.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 7.5 1,164.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 7.5 1,164.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 7.5 1,164.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 7.5 1,164.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 7.5 1,164.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 7.5 1,164.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 10.5 14.4 12.0 1,64.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 10.5 14.4 12.0 1,64.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 10.5 14.4 12.0 1,64.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 10.5 14.4 12.0 1,64.5 0.00 0.00 0.00 11,000 89.4 179.57 10,502.6 -1,064.5 10.5 14.4 12.0 1,64.5 0.00 0.00 0.00 0.00 11,000 89.4 179.57 10,503.0 -1,064.4 12.0 1,64.5 0.00 0.00 0.00 0.00 11,000 89.4 179.57 10,503.5 -2,064.4 11.4 12.0 1,64.5 0.00 0.	10,200.0	27.05	179.57	10,189.6	16.3	-0.5	-16.3	10.00	10.00	
10,000			179.57	10,274.3	-36.7	-0.1	36.7	10.00	10.00	
10,000.0 57.05 179.57 10,409.8 -149.37 10.00 10.00 0.00 10,000.0 77.05 179.57 10,487.8 -387.0 2.3 385.6 10.00 10.00 0.00 10,700.0 77.05 179.57 10,487.8 -387.0 2.3 385.6 10.00 10.00 0.00 10,700.0 77.05 179.57 10,487.8 -387.0 2.3 385.6 10.00 10.00 0.00 10,000 77.05 179.57 10,501.2 -464.5 3.0 464.5 10.00 10.00 0.00 10,000 77.05 179.57 10,501.2 -464.5 3.0 464.5 10.00 10.00 0.00 10,000 77.05 179.57 10,501.2 -464.5 3.0 464.5 10.00 10.00 0.00 10,000 89.84 179.57 10,502.0 -493.4 3.3 493.4 10.00 10.00 0.00 11,000 89.94 179.57 10,502.1 -564.5 3.8 564.5 0.00 0.00 0.00 11,000 89.94 179.57 10,502.1 -564.5 3.8 564.5 0.00 0.00 0.00 11,100.0 89.94 179.57 10,502.1 -564.5 3.8 564.5 0.00 0.00 0.00 11,100.0 89.94 179.57 10,502.3 -764.5 5.3 764.5 0.00 0.00 0.00 11,300.0 89.94 179.57 10,502.5 -864.5 6.8 864.5 0.00 0.00 0.00 11,300.0 89.94 179.57 10,502.5 -10,64.5 7.5 10,64.5 0.00 0.00 0.00 11,300.0 89.94 179.57 10,502.6 -1,1064.5 7.5 10,64.5 0.00 0.00 0.00 11,300.0 89.94 179.57 10,502.6 -1,1064.5 7.5 10,64.5 0.00 0.00 0.00 11,400.0 89.94 179.57 10,502.6 -1,164.5 8.2 1,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 -1,164.5 8.2 1,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 -1,164.5 8.2 1,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.0 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.0 -1,164.4 11.2 1,564.5 0.00 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.0 -1,164.5 9.0 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.					-103.6	0.4	103.6	10.00	10.00	
10,000				10,409.9	-182.3	0.9	182.3	10.00	10.00	
10,701.5						1.6	270.6	10.00	10.00	0.00
10,201.5 77.20 179.57 10,487.8 -367.0 2.3 367.0 10.00 10.00 10.00 0.00 10.00 87.05 179.57 10,501.2 464.5 3.0 464.5 10.00 10.00 10.00 0.00 10.20.8 89.94 179.57 10,501.2 464.5 3.0 464.5 10.00 10.00 0.00 10.00 89.94 179.57 10,501.2 464.5 3.8 564.5 0.00 0.00 0.00 11,000 89.94 179.57 10,502.1 -564.5 3.8 564.5 0.00 0.00 0.00 11,100.0 89.94 179.57 10,502.3 -764.5 5.3 764.5 0.00 0.00 0.00 11,200.0 89.94 179.57 10,502.3 -764.5 5.3 764.5 0.00 0.00 0.00 0.00 11,200.0 89.94 179.57 10,502.5 -864.5 6.8 864.5 0.00 0.00 0.00 0.00 11,200.0 89.94 179.57 10,502.6 -1,064.5 7.5 1,064.5 0.00 0.00 0.00 11,400.0 89.94 179.57 10,502.6 -1,064.5 7.5 1,064.5 0.00 0.00 0.00 11,400.0 89.94 179.57 10,502.6 -1,164.5 8.2 1,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 -1,164.5 8.2 1,164.5 0.00 0.00 0.00 11,700.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 0.00 11,700.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 0.00 11,700.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 0.00 11,700.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 0.00 11,700.0 89.94 179.57 10,502.6 -1,164.5 9.0 1,264.5 0.00 0.00 0.00 0.00 11,700.0 89.94 179.57 10,502.6 -1,164.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	10 700 0	77.05	179 57	10.487.4	-365.6	2.3	365,6	10.00	10.00	0.00
FIFE 240* FSL & 330* FWL, Sec 21   10,800				-				10.00	10.00	0.00
10,880.0 97.05 179.57 10,501.2 4-64.5 3.0 464.5 10.00 10.00 0.00 10,889.9 89.4 179.57 10,502.0 4-693.4 3.3 493.4 10.00 10.00 0.00 11,000.0 0.00 11,000.0 89.94 179.57 10,502.1 5-64.5 3.8 564.5 0.00 0.00 0.00 0.00 11,100.0 89.94 179.57 10,502.3 7-64.5 5.3 764.5 0.00 0.00 0.00 0.00 11,200.0 89.94 179.57 10,502.3 7-64.5 5.3 764.5 0.00 0.00 0.00 0.00 11,200.0 89.94 179.57 10,502.5 -964.5 6.0 864.5 0.00 0.00 0.00 11,300.0 89.94 179.57 10,502.6 -1,164.5 6.0 864.5 0.00 0.00 0.00 11,300.0 89.94 179.57 10,502.6 -1,164.5 8.2 11,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 1,164.5 8.2 11,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.5 -1,164.5 8.2 11,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 1,164.5 8.2 11,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 1,164.5 8.2 11,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 1,164.5 8.2 11,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 1,164.5 8.2 11,164.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 1,1364.5 9.7 1,364.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 1,1364.5 9.7 1,364.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,502.6 1,1364.5 9.7 1,364.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,503.0 1,1364.4 11.2 1,1564.5 0.00 0.00 0.00 11,500.0 89.94 179.57 10,503.0 1,1364.4 11.2 1,1564.5 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 1,164.4 12.7 1,764.5 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 1,1864.4 12.7 1,764.5 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 1,1864.4 12.7 1,764.5 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 1,1864.4 12.7 1,1864.5 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 2,604.4 14.9 2,604.5 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 2,604.4 14.9 2,645.5 0.00 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 2,604.4 14.9 2,645.5 0.00 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 2,604.4 14.9 2,645.5 0.00 0.00 0.00 0.00 12,200.0 89.94 179.57 10,503.5 2,604.4 14.9 2,645.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00				ŕ						
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10,900						3.3	493.4	10.00	10.00	0.00
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12,900.0 89.94 179.57 10,504.0 -2,564.4 18.7 2,564.5 0.00 0.00 0.00 13,000.0 89.94 179.57 10,504.1 -2,664.4 19.4 2,664.5 0.00 0.00 0.00 13,100.0 89.94 179.57 10,504.2 -2,764.4 20.1 2,764.5 0.00 0.00 0.00 13,200.0 89.94 179.57 10,504.4 -2,964.4 20.9 2,864.5 0.00 0.00 0.00 13,300.0 89.94 179.57 10,504.4 -2,964.4 21.6 2,964.5 0.00 0.00 0.00 13,400.0 89.94 179.57 10,504.6 -3,164.4 22.4 3,064.5 0.00 0.00 0.00 13,500.0 89.94 179.57 10,504.6 -3,164.4 23.1 3,164.5 0.00 0.00 0.00 13,500.0 89.94 179.57 10,504.6 -3,164.4 23.1 3,164.5 0.00 0.00 0.00 13,500.0 89.94 179.57 10,504.6 -3,164.4 23.9 3,264.5 0.00 0.00 0.00 13,500.0 89.94 179.57 10,504.8 -3,364.4 24.6 3,364.5 0.00 0.00 0.00 13,500.0 89.94 179.57 10,504.9 -3,464.4 25.3 3,464.5 0.00 0.00 0.00 13,500.0 89.94 179.57 10,505.0 -3,564.4 26.1 3,564.5 0.00 0.00 0.00 14,100.0 89.94 179.57 10,505.0 -3,564.4 26.1 3,564.5 0.00 0.00 0.00 14,100.0 89.94 179.57 10,505.0 -3,564.4 26.1 3,564.5 0.00 0.00 0.00 14,100.0 89.94 179.57 10,505.0 -3,564.4 26.8 3,664.5 0.00 0.00 0.00 14,100.0 89.94 179.57 10,505.0 -3,564.4 26.8 3,664.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.1 -3,664.4 26.8 3,664.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.1 -3,664.4 27.6 3,764.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.1 -3,664.4 28.3 3,864.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,500.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,500.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 0.00 14,500.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 0.00 14,500.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 0.00 14,500.0 89.94 179.57 10,505.5 -4,064.4 32.8 4,464.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0							2,464.5	0.00	0.00	0.00
13,100.0 89.94 179.57 10,504.2 -2,764.4 20.1 2,764.5 0.00 0.00 0.00 13,200.0 89.94 179.57 10,504.3 -2,864.4 20.9 2,864.5 0.00 0.00 0.00 13,400.0 89.94 179.57 10,504.5 -3,064.4 22.4 3,064.5 0.00 0.00 0.00 13,400.0 89.94 179.57 10,504.6 -3,164.4 22.4 3,064.5 0.00 0.00 0.00 13,600.0 89.94 179.57 10,504.6 -3,164.4 23.1 3,164.5 0.00 0.00 0.00 13,600.0 89.94 179.57 10,504.6 -3,164.4 23.1 3,164.5 0.00 0.00 0.00 13,600.0 89.94 179.57 10,504.6 -3,364.4 24.6 3,364.5 0.00 0.00 0.00 13,800.0 89.94 179.57 10,504.8 -3,364.4 24.6 3,364.5 0.00 0.00 0.00 13,800.0 89.94 179.57 10,504.9 -3,464.4 25.3 3,464.5 0.00 0.00 0.00 13,900.0 89.94 179.57 10,505.0 -3,564.4 26.1 3,564.5 0.00 0.00 0.00 14,000.0 89.94 179.57 10,505.0 -3,564.4 26.1 3,564.5 0.00 0.00 0.00 14,100.0 89.94 179.57 10,505.2 -3,764.4 27.6 3,764.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.2 -3,764.4 27.6 3,764.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 27.6 3,764.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 27.6 3,764.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,400.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,400.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.6 -4,164.4 30.5 4,164.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.7 -4,364.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,900.0 89.94 179.57 10,505.8 -4,464.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,900.0 89.94 179.57 10,505.9 -4,564.4 32.8 4,464.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0						18.7	2,564.5	0.00	0.00	0.00
13,100.0 89.94 179.57 10,504.2 -2,764.4 20.1 2,764.5 0.00 0.00 0.00 13,200.0 89.94 179.57 10,504.3 -2,864.4 20.9 2,864.5 0.00 0.00 0.00 13,300.0 89.94 179.57 10,504.4 -2,964.4 21.6 2,964.5 0.00 0.00 0.00 13,400.0 89.94 179.57 10,504.5 -3,064.4 22.4 3,064.5 0.00 0.00 0.00 13,500.0 89.94 179.57 10,504.6 -3,164.4 23.1 3,164.5 0.00 0.00 0.00 13,500.0 89.94 179.57 10,504.7 -3,264.4 23.9 3,264.5 0.00 0.00 0.00 13,700.0 89.94 179.57 10,504.8 -3,364.4 24.6 3,364.5 0.00 0.00 0.00 13,800.0 89.94 179.57 10,504.9 -3,464.4 25.3 3,464.5 0.00 0.00 0.00 13,800.0 89.94 179.57 10,504.9 -3,464.4 25.3 3,464.5 0.00 0.00 0.00 13,900.0 89.94 179.57 10,505.0 -3,564.4 26.1 3,564.5 0.00 0.00 0.00 14,000.0 89.94 179.57 10,505.1 -3,664.4 26.8 3,664.5 0.00 0.00 0.00 14,100.0 89.94 179.57 10,505.2 -3,764.4 27.6 3,764.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,400.0 89.94 179.57 10,505.5 -4,064.4 28.3 3,864.5 0.00 0.00 0.00 14,400.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,500.0 89.94 179.57 10,505.6 -4,164.4 30.5 4,164.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,700.0 89.94 179.57 10,505.6 -4,164.4 30.5 4,164.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.8 -4,464.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,900.0 89.94 179.57 10,505.9 -4,564.4 32.8 4,464.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	13,000,0	89 94	179.57	10.504.1	-2.664.4	19.4	2,664.5	0.00	0.00	0.00
13,200.0       89.94       179.57       10,504.3       -2,884.4       20.9       2,864.5       0.00       0.00       0.00         13,300.0       89.94       179.57       10,504.4       -2,964.4       21.6       2,964.5       0.00       0.00       0.00         13,400.0       89.94       179.57       10,504.6       -3,164.4       22.4       3,064.5       0.00       0.00       0.00         13,600.0       89.94       179.57       10,504.6       -3,164.4       23.1       3,164.5       0.00       0.00       0.00         13,700.0       89.94       179.57       10,504.8       -3,364.4       24.6       3,364.5       0.00       0.00       0.00         13,800.0       89.94       179.57       10,504.8       -3,364.4       24.6       3,364.5       0.00       0.00       0.00         13,800.0       89.94       179.57       10,504.9       -3,464.4       25.3       3,464.5       0.00       0.00       0.00         14,000.0       89.94       179.57       10,505.0       -3,564.4       26.1       3,564.5       0.00       0.00       0.00         14,100.0       89.94       179.57       10,505.5       -3,764.4       26.8						20.1	2,764.5	0.00		0.00
13,300.0       89.94       179.57       10,504.4       -2,964.4       21.6       2,964.5       0.00       0.00       0.00         13,400.0       89.94       179.57       10,504.5       -3,064.4       22.4       3,064.5       0.00       0.00       0.00         13,500.0       89.94       179.57       10,504.6       -3,184.4       23.1       3,164.5       0.00       0.00       0.00         13,600.0       89.94       179.57       10,504.7       -3,264.4       23.9       3,264.5       0.00       0.00       0.00         13,700.0       89.94       179.57       10,504.8       -3,364.4       24.6       3,364.5       0.00       0.00       0.00         13,800.0       89.94       179.57       10,504.9       -3,464.4       25.3       3,464.5       0.00       0.00       0.00         14,000.0       89.94       179.57       10,505.0       -3,564.4       26.1       3,564.5       0.00       0.00       0.00         14,200.0       89.94       179.57       10,505.1       -3,664.4       26.8       3,664.5       0.00       0.00       0.00         14,200.0       89.94       179.57       10,505.3       -3,764.4       27.6					-2,864.4	20.9	2,864.5			0.00
13,400.0       89.94       179.57       10,504.5       -3,064.4       22.4       3,064.5       0.00       0.00       0.00         13,500.0       89.94       179.57       10,504.6       -3,164.4       23.1       3,164.5       0.00       0.00       0.00         13,600.0       89.94       179.57       10,504.7       -3,264.4       23.9       3,264.5       0.00       0.00       0.00         13,700.0       89.94       179.57       10,504.8       -3,364.4       24.6       3,364.5       0.00       0.00       0.00         13,800.0       89.94       179.57       10,504.9       -3,464.4       25.3       3,464.5       0.00       0.00       0.00         13,900.0       89.94       179.57       10,505.0       -3,564.4       26.1       3,564.5       0.00       0.00       0.00         14,000.0       89.94       179.57       10,505.1       -3,664.4       26.8       3,664.5       0.00       0.00       0.00         14,200.0       89.94       179.57       10,505.2       -3,764.4       27.6       3,764.5       0.00       0.00       0.00         14,300.0       89.94       179.57       10,505.5       -4,064.4       29.1			179.57	10,504.4	-2,964.4	21.6	2,964.5			0.00
13,500.0 89.94 179.57 10,504.7 -3,264.4 23.9 3,264.5 0.00 0.00 0.00 13,800.0 89.94 179.57 10,504.9 -3,464.4 25.3 3,464.5 0.00 0.00 0.00 13,800.0 89.94 179.57 10,505.0 -3,564.4 26.1 3,564.5 0.00 0.00 0.00 13,900.0 89.94 179.57 10,505.1 -3,664.4 26.1 3,564.5 0.00 0.00 0.00 14,100.0 89.94 179.57 10,505.2 -3,764.4 27.6 3,764.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,300.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,300.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,400.0 89.94 179.57 10,505.5 -3,964.4 29.1 3,964.5 0.00 0.00 0.00 14,400.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,400.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.7 -4,264.4 30.5 4,164.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 32.8 4,464.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.8 -4,464.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.9 -4,564.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.9 -4,564.4 32.8 4,464.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0				10,504.5	-3,064.4	22.4	3,064.5	0.00	0.00	0.00
13,600.0 89.94 179.57 10,504.7 -3,264.4 23.9 3,264.5 0.00 0.00 0.00 13,700.0 89.94 179.57 10,504.8 -3,364.4 24.6 3,364.5 0.00 0.00 0.00 13,800.0 89.94 179.57 10,504.9 -3,464.4 25.3 3,464.5 0.00 0.00 0.00 13,900.0 89.94 179.57 10,505.0 -3,564.4 26.1 3,564.5 0.00 0.00 0.00 14,000.0 89.94 179.57 10,505.1 -3,664.4 26.8 3,664.5 0.00 0.00 0.00 14,100.0 89.94 179.57 10,505.2 -3,764.4 27.6 3,764.5 0.00 0.00 0.00 14,200.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,300.0 89.94 179.57 10,505.3 -3,864.4 28.3 3,864.5 0.00 0.00 0.00 14,300.0 89.94 179.57 10,505.5 -3,964.4 29.1 3,964.5 0.00 0.00 0.00 14,400.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,500.0 89.94 179.57 10,505.5 -4,064.4 29.8 4,064.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.6 -4,164.4 30.5 4,164.5 0.00 0.00 0.00 14,600.0 89.94 179.57 10,505.7 -4,264.4 31.3 4,264.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 32.8 4,464.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.7 -4,264.4 32.8 4,464.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.8 -4,464.4 32.8 4,464.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.8 -4,464.4 32.8 4,464.5 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.9 -4,564.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.9 -4,564.4 32.8 4,464.5 0.00 0.00 0.00 0.00 14,800.0 89.94 179.57 10,505.9 -4,564.4 33.5 4,564.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	13 500 0	89.94	179.57	10.504.6	-3,164.4	23.1	3,164.5			0.00
13,700.0       89.94       179.57       10,504.8       -3,364.4       24.6       3,364.5       0.00       0.00       0.00         13,800.0       89.94       179.57       10,504.9       -3,464.4       25.3       3,464.5       0.00       0.00       0.00         13,900.0       89.94       179.57       10,505.0       -3,564.4       26.1       3,564.5       0.00       0.00       0.00         14,000.0       89.94       179.57       10,505.1       -3,664.4       26.8       3,664.5       0.00       0.00       0.00         14,100.0       89.94       179.57       10,505.2       -3,764.4       27.6       3,764.5       0.00       0.00       0.00         14,200.0       89.94       179.57       10,505.3       -3,864.4       28.3       3,864.5       0.00       0.00       0.00         14,300.0       89.94       179.57       10,505.4       -3,964.4       29.1       3,964.5       0.00       0.00       0.00         14,400.0       89.94       179.57       10,505.5       -4,064.4       29.8       4,064.5       0.00       0.00       0.00         14,500.0       89.94       179.57       10,505.6       -4,164.4       30.5							3,264.5			0.00
13,800.0       89.94       179.57       10,504.9       -3,464.4       25.3       3,464.5       0.00       0.00       0.00         13,900.0       89.94       179.57       10,505.0       -3,564.4       26.1       3,564.5       0.00       0.00       0.00         14,000.0       89.94       179.57       10,505.1       -3,664.4       26.8       3,664.5       0.00       0.00       0.00         14,100.0       89.94       179.57       10,505.2       -3,764.4       27.6       3,764.5       0.00       0.00       0.00         14,200.0       89.94       179.57       10,505.3       -3,864.4       28.3       3,864.5       0.00       0.00       0.00         14,300.0       89.94       179.57       10,505.4       -3,964.4       29.1       3,964.5       0.00       0.00       0.00         14,400.0       89.94       179.57       10,505.5       -4,064.4       29.8       4,064.5       0.00       0.00       0.00         14,500.0       89.94       179.57       10,505.6       -4,164.4       30.5       4,164.5       0.00       0.00       0.00         14,600.0       89.94       179.57       10,505.7       -4,264.4       31.3				•		24.6				0.00
13,900.0       89.94       179.57       10,505.0       -3,564.4       26.1       3,564.5       0.00       0.00       0.00         14,000.0       89.94       179.57       10,505.1       -3,664.4       26.8       3,664.5       0.00       0.00       0.00         14,100.0       89.94       179.57       10,505.2       -3,764.4       27.6       3,764.5       0.00       0.00       0.00         14,200.0       89.94       179.57       10,505.3       -3,864.4       28.3       3,864.5       0.00       0.00       0.00         14,300.0       89.94       179.57       10,505.4       -3,964.4       29.1       3,964.5       0.00       0.00       0.00         14,400.0       89.94       179.57       10,505.5       -4,064.4       29.8       4,064.5       0.00       0.00       0.00         14,500.0       89.94       179.57       10,505.6       -4,164.4       30.5       4,164.5       0.00       0.00       0.00         14,600.0       89.94       179.57       10,505.7       -4,264.4       31.3       4,264.5       0.00       0.00       0.00         14,800.0       89.94       179.57       10,505.7       -4,364.4       32.8										0.00
14,000.0       89.94       179.57       10,505.1       -3,764.4       27.6       3,764.5       0.00       0.00       0.00         14,200.0       89.94       179.57       10,505.2       -3,764.4       28.3       3,864.5       0.00       0.00       0.00         14,300.0       89.94       179.57       10,505.4       -3,964.4       29.1       3,964.5       0.00       0.00       0.00         14,400.0       89.94       179.57       10,505.5       -4,064.4       29.8       4,064.5       0.00       0.00       0.00         14,500.0       89.94       179.57       10,505.6       -4,164.4       30.5       4,164.5       0.00       0.00       0.00         14,600.0       89.94       179.57       10,505.7       -4,264.4       31.3       4,264.5       0.00       0.00       0.00         14,700.0       89.94       179.57       10,505.7       -4,364.4       32.0       4,364.5       0.00       0.00       0.00         14,800.0       89.94       179.57       10,505.8       -4,464.4       32.8       4,464.5       0.00       0.00       0.00         14,900.0       89.94       179.57       10,505.8       -4,464.4       32.8			179.57	10,505.0	-3,564.4	26.1	3,564.5	0.00		0.00
14,100.0       89.94       179.57       10,505.2       -3,764.4       27.6       3,764.5       0.00       0.00       0.00         14,200.0       89.94       179.57       10,505.3       -3,864.4       28.3       3,864.5       0.00       0.00       0.00         14,300.0       89.94       179.57       10,505.4       -3,964.4       29.1       3,964.5       0.00       0.00       0.00         14,400.0       89.94       179.57       10,505.5       -4,064.4       29.8       4,064.5       0.00       0.00       0.00         14,500.0       89.94       179.57       10,505.6       -4,164.4       30.5       4,164.5       0.00       0.00       0.00         14,600.0       89.94       179.57       10,505.7       -4,264.4       31.3       4,264.5       0.00       0.00       0.00         14,700.0       89.94       179.57       10,505.7       -4,364.4       32.0       4,364.5       0.00       0.00       0.00         14,800.0       89.94       179.57       10,505.8       -4,464.4       32.8       4,464.5       0.00       0.00       0.00         14,900.0       89.94       179.57       10,505.9       -4,564.4       32.8	14.000.0	89.94	179.57	10,505.1	-3,664.4	26.8				0.00
14,200.0       89.94       179.57       10,505.3       -3,864.4       28.3       3,864.5       0.00       0.00       0.00         14,300.0       89.94       179.57       10,505.4       -3,964.4       29.1       3,964.5       0.00       0.00       0.00         14,400.0       89.94       179.57       10,505.5       -4,064.4       29.8       4,064.5       0.00       0.00       0.00         14,500.0       89.94       179.57       10,505.6       -4,164.4       30.5       4,164.5       0.00       0.00       0.00         14,600.0       89.94       179.57       10,505.7       -4,264.4       31.3       4,264.5       0.00       0.00       0.00         14,800.0       89.94       179.57       10,505.8       -4,464.4       32.0       4,364.5       0.00       0.00       0.00         14,800.0       89.94       179.57       10,505.8       -4,464.4       32.8       4,464.5       0.00       0.00       0.00         14,900.0       89.94       179.57       10,505.9       -4,564.4       32.8       4,464.5       0.00       0.00       0.00         14,900.0       89.94       179.57       10,505.9       -4,564.4       32.8				10,505.2	-3,764.4					0.00
14,300.0       89.94       179.57       10,505.4       -3,964.4       29.1       3,964.5       0.00       0.00       0.00         14,400.0       89.94       179.57       10,505.5       -4,064.4       29.8       4,064.5       0.00       0.00       0.00         14,500.0       89.94       179.57       10,505.6       -4,164.4       30.5       4,164.5       0.00       0.00       0.00         14,600.0       89.94       179.57       10,505.7       -4,264.4       31.3       4,264.5       0.00       0.00       0.00         14,800.0       89.94       179.57       10,505.8       -4,464.4       32.8       4,464.5       0.00       0.00       0.00         14,900.0       89.94       179.57       10,505.9       -4,564.4       32.8       4,464.5       0.00       0.00       0.00         14,900.0       89.94       179.57       10,505.9       -4,564.4       33.5       4,564.5       0.00       0.00       0.00			179.57	10,505.3	-3,864.4					0.00
14,400.0     89.94     179.57     10,505.5     -4,064.4     29.8     4,064.5     0.00     0.00     0.00       14,500.0     89.94     179.57     10,505.6     -4,164.4     30.5     4,164.5     0.00     0.00     0.00       14,600.0     89.94     179.57     10,505.7     -4,264.4     31.3     4,264.5     0.00     0.00     0.00       14,700.0     89.94     179.57     10,505.7     -4,364.4     32.0     4,364.5     0.00     0.00     0.00       14,800.0     89.94     179.57     10,505.8     -4,464.4     32.8     4,464.5     0.00     0.00     0.00       14,900.0     89.94     179.57     10,505.9     -4,564.4     33.5     4,564.5     0.00     0.00			179.57	10,505.4						0.00
14,800.0     89.94     179.57     10,505.7     -4,264.4     31.3     4,264.5     0.00     0.00     0.00       14,700.0     89.94     179.57     10,505.7     -4,364.4     32.0     4,364.5     0.00     0.00     0.00       14,800.0     89.94     179.57     10,505.8     -4,464.4     32.8     4,464.5     0.00     0.00     0.00       14,900.0     89.94     179.57     10,505.9     -4,564.4     33.5     4,564.5     0.00     0.00     0.00       14,900.0     89.94     179.57     10,505.9     -4,564.4     33.5     4,564.5     0.00     0.00			179.57	10,505.5	-4,064.4	29.8	4,064.5	0.00		0.00
14,600.0     89.94     179.57     10,505.7     -4,264.4     31.3     4,264.5     0.00     0.00     0.00       14,700.0     89.94     179.57     10,505.7     -4,364.4     32.0     4,364.5     0.00     0.00     0.00       14,800.0     89.94     179.57     10,505.8     -4,464.4     32.8     4,464.5     0.00     0.00     0.00       14,900.0     89.94     179.57     10,505.9     -4,564.4     33.5     4,564.5     0.00     0.00     0.00       14,900.0     89.94     179.57     10,505.9     -4,564.4     33.5     4,564.5     0.00     0.00	14.500.0	89.94	179.57	10,505.6	-4,164.4	30.5				0.00
14,700.0     89.94     179.57     10,505.7     -4,364.4     32.0     4,364.5     0.00     0.00     0.00       14,800.0     89.94     179.57     10,505.8     -4,464.4     32.8     4,464.5     0.00     0.00     0.00       14,900.0     89.94     179.57     10,505.9     -4,564.4     33.5     4,564.5     0.00     0.00     0.00       14,900.0     89.94     179.57     10,505.9     -4,564.4     33.5     4,564.5     0.00     0.00     0.00				•		31.3	4,264.5			0.00
14,800.0 89.94 179.57 10,505.8 -4,464.4 32.8 4,464.5 0.00 0.00 0.00 14,900.0 89.94 179.57 10,505.9 -4,564.4 33.5 4,564.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0						32.0	4,364.5	0.00		0.00
14,900.0 89.94 179.57 10,505.9 -4,564.4 33.5 4,564.5 0.00 0.00 0.0	•					32.8	4,464.5			0.00
						33.5	4,564.5	0.00	0.00	0.00
15,000.0 89.94 179.57 10,506.0 -4,664.4 34.3 4,664.5 0.00 0.00				10,506.0	-4,664.4	34.3	4,664.5	0.00	0.00	0.00

Database:

Hobbs

BHL: 330' FSL & 330' FWL, Sec 28

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

Kansas 21/28 W2LM Fed #1H

Site:

Sec 21, T24S, R28E

Well: Wellbore:

BHL: 330' FSL & 330' FWL, Sec 28

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Site Kansas 21/28 W2LM Fed #1H

WELL @ 3058.0usft (Original Well Elev)
WELL @ 3058.0usft (Original Well Elev)

Grid

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)
15,200.0	89.94	179.57	10,506.2	-4,864.4	35.8	4,864.5	0.00	0.00	0.00
15,300.0	89.94	179.57	10,506.3	-4,964.4	36.5	4,964.5	0.00	0.00	0.00
15,400.0	89.94	179.57	10,506.4	-5,064.4	37.2	5,064.5	0.00	0.00	0.00
15,500.0	89.94	179.57	10,506.5	-5,164.3	38.0	5,164.5	0.00	0.00	0.00
15,600.0	89.94	179.57	10,506.6	-5,264.3	38.7	5,264.5	0.00	0.00	0.00
15,700.0	89.94	179.57	10,506.7	-5,364.3	39.5	5,364.5	0.00	0.00	0.00
15,800.0	89.94	179.57	10,506.8	-5,464.3	40.2	5,464.5	0.00	0.00	0.00
15,900.0	89.94	179.57	10,506.9	-5,564.3	41.0	5,564.5	0.00	0.00	0.00
16,000.0	89.94	179.57	10,507.0	-5,664.3	41.7	5,664.5	0.00	0.00	0.00
16,100.0	89.94	179.57	10,507.1	-5,764.3	42.4	5,764.5	0.00	0.00	0.00
16,200.0	89.94	179.57	10,507.2	-5,864.3	43.2	5,864.5	0.00	0.00	0.00
16,300.0	89.94	179.57	10,507.3	-5,964.3	43.9	5,964.5	0.00	0.00	0.00
16,400.0	89.94	179.57	10,507.4	-6,064.3	44.7	6,064.5	0.00	0.00	0.00
16,500.0	89.94	179.57	10,507.5	-6,164.3	45.4	6,164.5	0.00	0.00	0.00
16,600.0	89.94	179.57	10,507.6	-6,264.3	46.2	6,264.5	0.00	0.00	0.00
16,700.0	89.94	179.57	10,507.7	-6,364.3	46.9	6,364.5	0.00	0.00	0.00
16,800.0	89.94	179.57	10,507.8	-6,464.3	47.6	6,464.5	0.00	0.00	0.00
16,900.0	89.94	179.57	10,507.9	-6,564.3	48.4	6,564.5	0.00	0.00	0.00
17,000.0	89.94	179.57	10,508.0	-6,664.3	49.1	6,664.5	0.00	0.00	0.00
17,100.0	89.94	179.57	10,508.1	-6,764.3	49.9	6,764.5	0.00	0.00	0.00
17,200.0	89.94	179.57	10,508.2	-6,864.3	50.6	6,864.5	0.00	0.00	0.00
17,300.0	89.94	179.57	10,508.3	-6,964.3	51.4	6,964.5	0.00	0.00	0.00
17,400.0	89.94	179.57	10,508.4	-7,064.3	52.1	7,064.5	0.00	0.00	0.00
17,500.0	89.94	179.57	10,508.5	-7,164.3	52.9	7,164.5	0.00	0.00	0.00
17,600.0	89.94	179.57	10,508.6	-7,264.3	53.6	7,264.5	0.00	0.00	0.00
17,700.0	89.94	179.57	10,508.7	-7,364.3	54.3	7,364.5	0.00	0.00	0.00
17,800.0	89.94	179.57	10,508.8	-7,464.3	55.1	7,464.5	0.00	0.00	0.00
17,900.0	89.94	179.57	10,508.8	-7,564.3	55.8	7,564.5	0.00	0.00	0.00

Database: Company: Hobbs

Mewbourne Oil Company

Project:

Eddy County, New Mexico NAD 83 Kansas 21/28 W2LM Fed #1H

Site: Well:

Sec 21, T24S, R28E

Wellbore:

BHL: 330' FSL & 330' FWL, Sec 28

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Kansas 21/28 W2LM Fed #1H

WELL @ 3058.0usft (Original Well Elev) WELL @ 3058.0usft (Original Well Elev)

Grid

Dealer Torreto									
Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitud <del>e</del>	Longitude
SL: 2635' FNL & 330' FV - plan hits target cent - Point	0.00 ter	0.00	0.0	0.0	0.0	437,785.00	613,465.00	32.2033330	-104.1001392
KOP @ 9929' - plan hits target cent - Point	0.00 ter	0.00	9,929.0	79.0	-1.0	437,864.00	613,464.00	32.2035502	-104.1001419
FTP: 2340' FSL & 330' F - plan hits target cen - Point	0.00 ter	0.00	10,487.8	-367.0	2.3	437,418.00	613,467.32	32.2023242	-104.100134
LP: 2214' FSL & 330' FV - plan hits target cen - Point	0.00 ter	0.00	10,502.0	-493.4	3.3	437,291.60	613,468.30	32.2019767	-104.1001320
BHL: 330' FSL & 330' FV - plan hits target cen - Point		0.00	10,509.0	-7,722.0	57.0	430,063.00	613,522.00	32.1821057	-104.100009

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

## 1. Geologic Formations

TVD of target	10,509'	Pilot hole depth	NA
MD at TD:	18,058'	Deepest expected fresh water:	50'

## **Basin**

Formation	Depth (TVD)	Water/Mineral Bearing/	Hazards*
	from KB	Target Zone?	
Quaternary Fill	Surface		
Rustler			
Top of Salt			
Castile	1080		
Base of Salt			
Yates			<u> </u>
Capitan			
Lamar	2515	Oil	
Bell Canyon	2545		
Cherry Canyon	3385		
Manzanita Marker	3495		
Brushy Canyon	4610		
Bone Spring	6190	Oil/Gas	
1 <sup>st</sup> Bone Spring Sand	7090		
2 <sup>nd</sup> Bone Spring Sand	7950		
3 <sup>rd</sup> Bone Spring Sand	9000		
Abo			
Wolfcamp	9370	Target Zone	
Devonian			
Ellenburger			
Granite Wash			

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

## 2. Casing Program

Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
0'	425'	13.375"	48	H40	STC	3.48	7.83	15.78	26.52
0'		9.625"	36	J55	LTC	1.59	2.77	5.16	6.42
0'		7"	26	HCP110	LTC	1.51	1.93	2.35	3.00
9930'	<u> </u>	4.5"	13.5	P110	LTC	1.50	1.75	3.08	3.85
	<del></del>	Factor 1.	125		٠ ,	1.6 Dry			
	From 0' 0' 0' 9930'	0' 425' 0' 2440' 0' 10,630' 9930' 18,058'	From         To         Size           0'         425'         13.375"           0'         2440'         9.625"           0'         10,630'         7"           9930'         18,058'         4.5"	From         To         Size         (lbs)           0'         425'         13.375"         48           0'         2440'         9.625"         36           0'         10,630'         7"         26           9930'         18,058'         4.5"         13.5	From         To         Size         (lbs)           0'         425'         13.375"         48         H40           0'         2440'         9.625"         36         J55           0'         10,630'         7"         26         HCP110           9930'         18,058'         4.5"         13.5         P110           BLM Minimum Safety Factor         1.125         1         1.	From         To         Size         (lbs)         H40         STC           0'         425'         13.375"         48         H40         STC           0'         2440'         9.625"         36         J55         LTC           0'         10,630'         7"         26         HCP110         LTC           9930'         18,058'         4.5"         13.5         P110         LTC	From         To         Size         (lbs)         Collapse           0'         425'         13.375"         48         H40         STC         3.48           0'         2440'         9.625"         36         J55         LTC         1.59           0'         10,630'         7"         26         HCP110         LTC         1.51           9930'         18,058'         4.5"         13.5         P110         LTC         1.50           BLM Minimum Safety Factor         1.125         1         1.6 Dry         1.6 Dry	From         To         Size         (lbs)         Collapse         Burst           0'         425'         13.375"         48         H40         STC         3.48         7.83           0'         2440'         9.625"         36         J55         LTC         1.59         2.77           0'         10,630'         7"         26         HCP110         LTC         1.51         1.93           9930'         18,058'         4.5"         13.5         P110         LTC         1.50         1.75           BLM Minimum Safety Factor         1.125         1         1.6 Dry         1.6 Dry         1.6 Dry	From         To         Size         (lbs)         Collapse         Burst         Tension           0'         425'         13.375"         48         H40         STC         3.48         7.83         15.78           0'         2440'         9.625"         36         J55         LTC         1.59         2.77         5.16           0'         10,630'         7"         26         HCP110         LTC         1.51         1.93         2.35           9930'         18,058'         4.5"         13.5         P110         LTC         1.50         1.75         3.08           BLM Minimum Safety Factor         1.125         1         1.6 Dry         1.6 Dry         1.6 Dry

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

	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.	<u> </u>
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	

# Mewbourne Oil Company, Kansas 21/28 W2LM Fed #1H

# Sec 21, T24S, R28E

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

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

# 3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H <sub>2</sub> 0 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	155	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.	345	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.	415	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer +
Stg 1						Extender
] 5.5 1	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
		'			ECP/DV T	'ool @ 3495'
Prod.	60	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
Stg 2	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	330	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	2240'	25%
Liner	9930'	25%

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

## 4. Pressure Control Equipment

N	Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Т	ype	1	Tested to:			
	13-5/8" 5M		An	nular	X	2500#			
			Blin	d Ram	X				
12-1/4"		2-1/4"   13-5/8"	5M	/8"   5M	-5/8" 5M	Pip	e Ram	X	5000#
				ole Ram		Juuun			
			Other*						

<sup>\*</sup>Specify if additional ram is utilized.

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

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

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

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

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.		
1	N	Are anchors required by manufacturer?	
Y	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
	•	Provide description here: See attached schematic.	

## 5. Mud Program

TVD		Туре	Weight (ppg)	Viscosity	Water Loss
From	То				
0	425'	FW Gel	8.6-8.8	28-34	N/C
425'	2440'	Saturated Brine	10.0	28-34	N/C
2440'	9929'	Cut Brine	8.6-9.5	28-34	N/C
9929'	10,509'	OBM	10.0-12.0	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

	ging, Coring and Testing.
X	Will run GR/CNL from KOP (9930') to surface (horizontal well – vertical portion of
	hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
Auutiviiai ivgo piainiva	Tricer van

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

X	Gamma Ray	9930' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

## 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6558 psi
Abnormal Temperature	No

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

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

H2S is present

X H2S Plan attached

## 8. Other facets of operation

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

**Attachments** 

SL: 2635' FSL & 330' FWL, Sec 21 BHL: 330' FSL & 330' FWL, Sec 28

 Direct	ional	Plan
Other,	desc	ribe



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

SUPO Data Report

APD ID: 10400030164

Submission Date: 05/15/2018

Highlighted data reflects the most

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 1H

recent changes

Well Name: KANSAS 21/28 W2LM FED COM

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

**Show Final Text** 

## **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

Kansas21\_28W2LMFedCom1H\_existingroadmap\_20180510145708.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

#### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

# **Section 3 - Location of Existing Wells**

Existing Wells Map? YES

Attach Well map:

Kansas21\_28W2LMFedCom1H\_existingwellmap\_20180510145731.pdf

Well Name: KANSAS 21/28 W2LM FED COM Well Number: 1H

**Existing Wells description:** 

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color that blends in with the surrounding landscape. The paint color will be one of the colors from the BLM Standard Environmental Colors chart selected by the BLM authorized officer. b. All proposed production facilities that are located on the well pad will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location. c. Production from the proposed well will be located on the East edge of location. d. If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation of construction. e. An electric line will be applied for through a sundry notice or BLM right of way at a later date.

**Production Facilities map:** 

Kansas21\_28W2LMFedCom1H\_productionfacilitymap\_20180510145745.pdf

## Section 5 - Location and Types of Water Supply

## **Water Source Table**

Water source use type: DUST CONTROL,

Water source type: IRRIGATION

INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

**CASING** 

Describe type: Source longitude: -104.04341

Source latitude: 32.193806 Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2152 Source volume (acre-feet): 0.27737793

Source volume (gal): 90384

Water source use type: DUST CONTROL, Water source type: IRRIGATION

INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

**CASING** 

Describe type: Source longitude: -104.04341

Source latitude: 32.193806 Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: FEDERAL

Well Name: KANSAS 21/28 W2LM FED COM Well Number: 1H

Water source transport method: TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2152

Source volume (acre-feet): 0.27737793

Source volume (gal): 90384

#### Water source and transportation map:

Kansas21\_28W2LMFedCom1H\_watersourceandtransmap\_20180510145804.pdf

Water source comments: Both sources shown on one map.

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:

Aguifer comments:

#### Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

**Completion Method:** 

Water well additional information:

#### State appropriation permit:

#### Additional information attachment:

## **Section 6 - Construction Materials**

Construction Materials description: Caliche

#### **Construction Materials source location attachment:**

Kansas21\_28W2LMFedCom1H\_calichesourceandtransmap\_20180510145817.pdf

Well Number: 1H Well Name: KANSAS 21/28 W2LM FED COM

## **Section 7 - Methods for Handling Waste**

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500

gallons

Waste disposal frequency: Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: PRIVATE

**FACILITY** 

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500

pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: PRIVATE

**FACILITY** 

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

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.

R	ese	rve	Pit	ŀ

Well Name: KANSAS 21/28 W2LM FED COM Well Number: 1H

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

## **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: NO

**Ancillary Facilities attachment:** 

Comments:

# Section 9 - Well Site Layout

#### Well Site Layout Diagram:

Kansas21\_28W2LMFedCom1H\_wellsitelayout\_20180510150016.pdf

Comments:

Well Number: 1H Well Name: KANSAS 21/28 W2LM FED COM

## Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: KANSAS 21/28 W0LM & W2LM

Multiple Well Pad Number: 2

Recontouring attachment:

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

Well pad proposed disturbance (acres): Well pad interim reclamation (acres):

5.92

Road proposed disturbance (acres): 0

1.53

Road interim reclamation (acres): 0

Road long term disturbance (acres): 4.39

4.39

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

Powerline long term disturbance (acres):

Well pad long term disturbance (acres):

Pipeline proposed disturbance (acres): 0

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance (acres): 0

Other proposed disturbance (acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 5.92

Total interim reclamation: 1.53

Total long term disturbance: 8.78

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

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

Soil treatment: NA

Existing Vegetation at the well pad: Various brush & grasses

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Various brush & grasses

**Existing Vegetation Community at the road attachment:** 

Existing Vegetation Community at the pipeline: NA

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: NA

Existing Vegetation Community at other disturbances attachment:

Well Name: KANSAS 21/28 W2LM FED COM

Well Number: 1H

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:

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

Well Name: KANSAS 21/28 W2LM FED COM Well Number: 1H

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: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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**:

Well Name: KANSAS 21/28 W2LM FED COM

Well Number: 1H

Fee Owner: Pecos Valley Artesian Conservation

District

Phone: (575)622-7000

Fee Owner Address: PO Box 1346 Roswell NM 88202

Email:

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: EXISTING ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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: KANSAS 21/28 W2LM FED COM

Well Number: 1H

Fee Owner: Pecos Valley Artesian Convservation

**District** 

Phone: (575)622-7000

Fee Owner Address: PO Box 1346 Roswell NM 88202

Email:

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: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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: KANSAS 21/28 W2LM FED COM

Well Number: 1H

Fee Owner: Pecos Valley Artesian Conservation

District

Phone: (575)622-7000

Fee Owner Address: PO Box 1346 Roswell NM 88202

Email:

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:

## **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: APR 06 2018 Met with RRC Surveying & staked location @ 2635' FNL & 330' FWL, Sec 21 T24S R28E, Eddy Co NM. This appears to be a drillable location. Elevation @ 3037'. Kansas 21/28 W0LM Fed #2H staked 30' East, Creedence 21/16 W0ED State Com #2H & Creedence 21/16 W0ED State Com #1H staked 200' North. Requires SUA with Pecos Valley Artesian Conservation District & BLM onsite for approval.

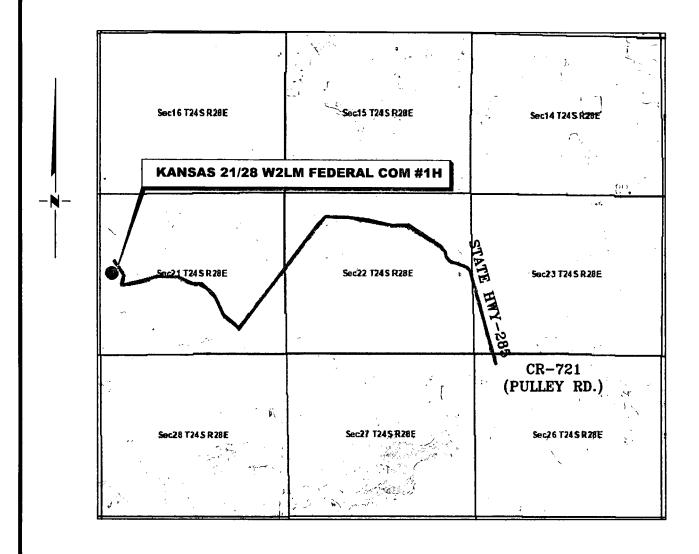
## Other SUPO Attachment

 $Kansas 21\_28W2LMFedCom 1H\_interim reclamation diagram\_20180510150208.pdf \\ Kansas 21\_28W2LMFedCom 1H\_gascapture plan\_20180510150238.pdf$ 



# VICINITY MAP

NOT TO SCALE



SECTION 21, TWP. 24 SOUTH, RGE. 28 EAST, N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: Mewbourne Oil Company LOCATION: 2635' FNL & 330' FWL

LEASE: Kansas 21/28 W2LM Federal Com ELEVATION: 3031'

WELL NO.: 1H

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NO. REVISION DATE JOB NO.: LS1804445 DWG. NO.: 1804445VM



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

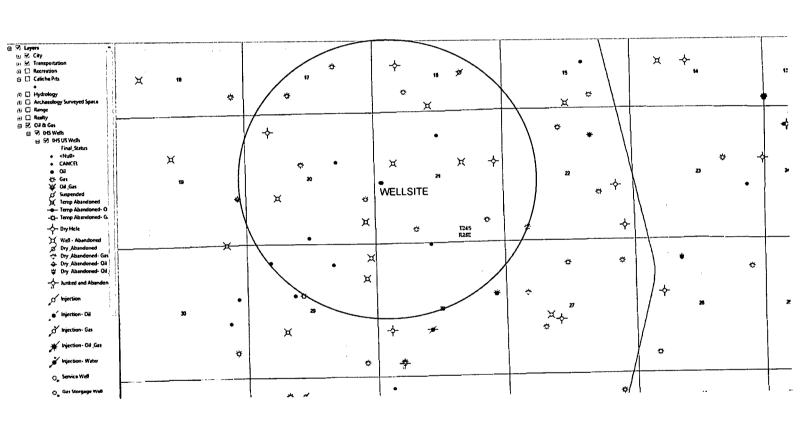
SCALE: N. T. S. DATE: 4-05-2018 SURVEYED BY: ML/TF

DRAWN BY: LPS

APPROVED BY: RMH

SHEET: 1 OF 1

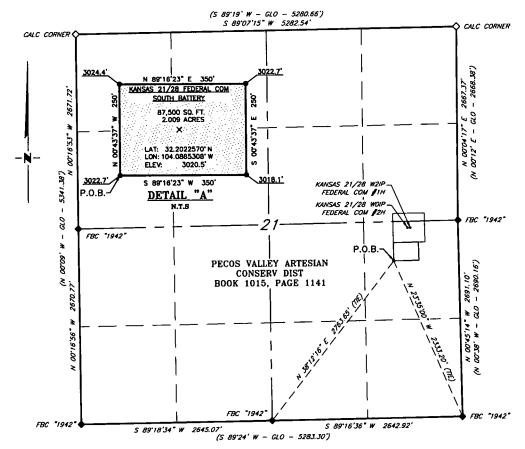
# EXISTING WELL MAP KANSAS 21/28 W2LM FEDERAL COM WELL #1H



#### MEWBOURNE OIL COMPANY

## SURVEY FOR THE PROPOSED KANSAS 21/28 FEDERAL COM WELL LOCATIONS SOUTH BATTERY SECTION 21, T24S, R28E

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



#### DESCRIPTION

A tract of land situated within the Southeast quarter of Section 21, Township 24 South, Range 28 East, N. M. P. M., Eddy County, New Mexico, across the lands of Pecos Valley Artesian Conserv. Dist., according to a deed filed for record in Book 1015, Page 1141, of the Deed Records of Eddy County, New Mexico, and being more particularly described by metes and bounds as follows:

BEGINNING at a point, which bears, N 38\*12'16" E, 2,763.65 feet from a brass cap, stamped "1942", found for the South quarter corner of Section 21, and bears, N 23'35'00" W, 2,333.20 feet from a brass cap, stamped "1942", found for the Southeast corner of Section 21;

Thence N 00°43'37" W, 250 feet, to a point;

Thence N 89'16'23" E, 350 feet, to a point;

Thence S 00"43'37" E, 250 feet, to a point;

Thence S 89'16'23" W, 350 feet, to the Point of Beginning.

Said tract of land contains 87,500 square feet or 2.009 acres, more or less, and is allocated by forties as: 84RT

1" = 1000 1000

NE 1/4 SE 1/4 87,500 Sq. Ft. 2.009 Acres

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

LEGEND

( ) RECORD DATA - GLO

FOUND MONUMENT AS NOTED

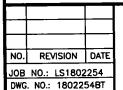
P.O.B. POINT OF BEGINNING

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

GONAL SUF Copyright 2017 - All Rights Reserv





DATE: 02-23-2018 SURVEYED BY: ML/TF DRAWN BY: AIAC APPROVED BY: RMH SHEET: 1 OF 1

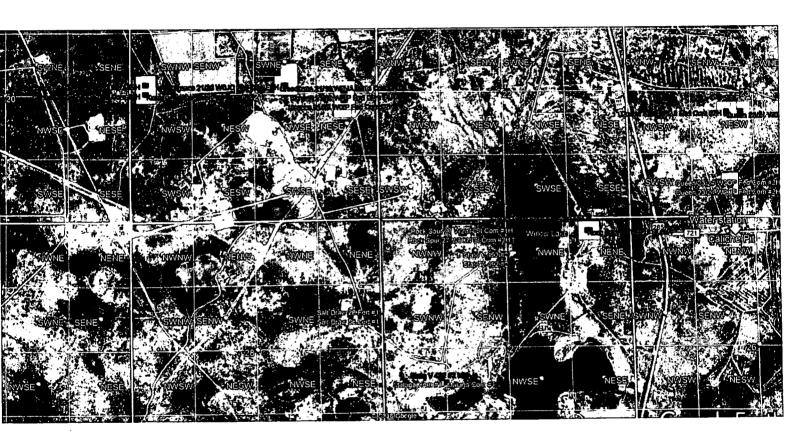
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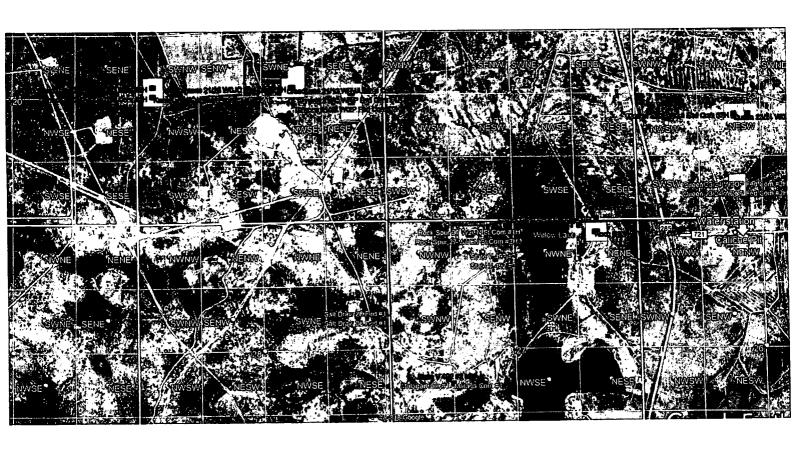
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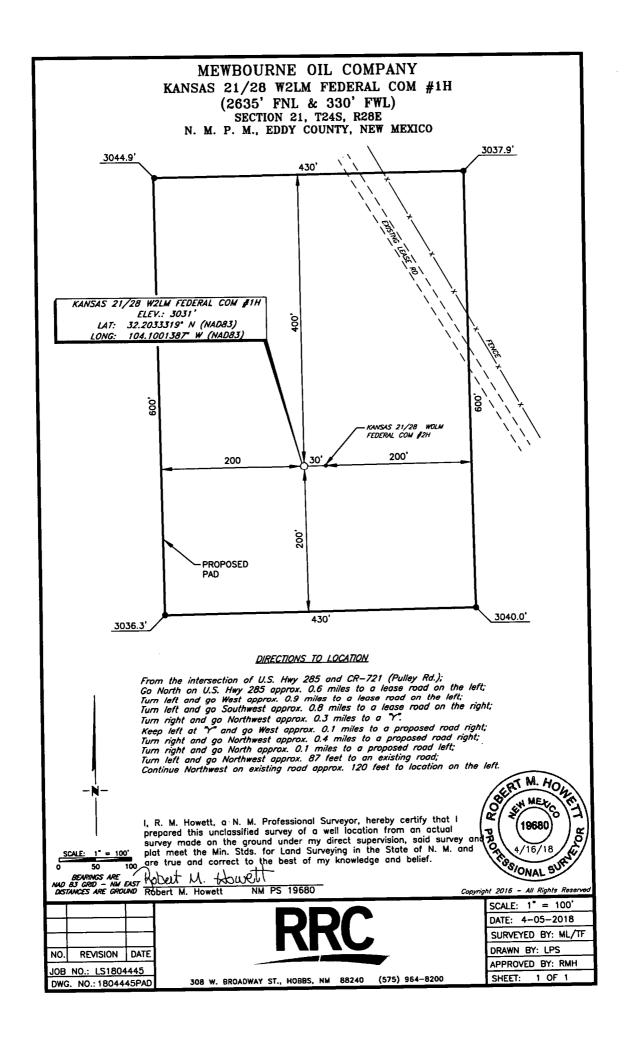
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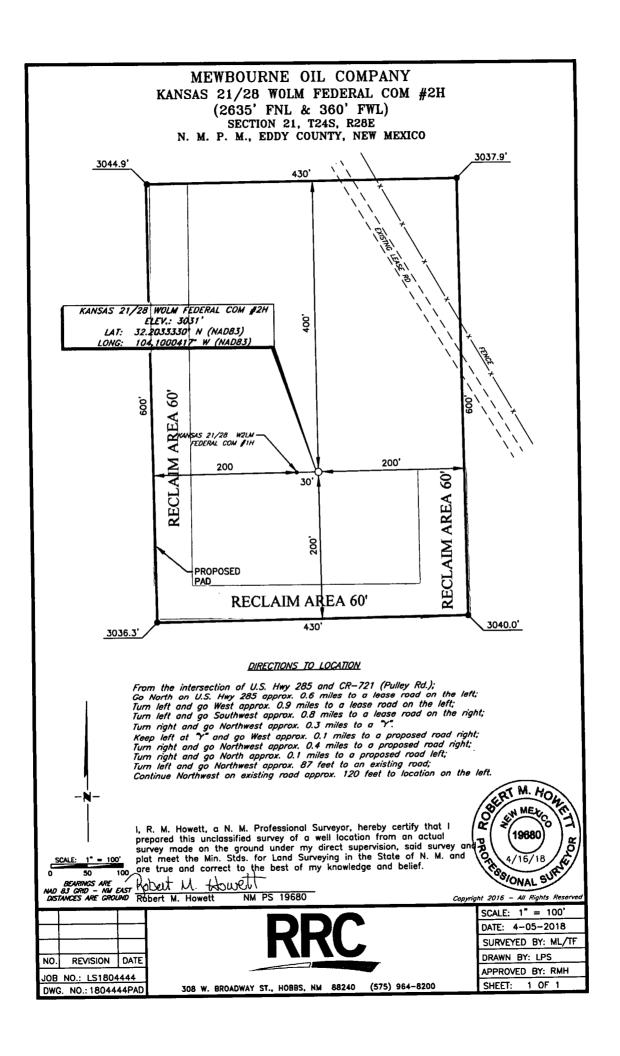
19680

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

# PWD Data Report 02/25/2019

#### Section 1 - General

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

## **Section 2 - Lined Pits**

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

# Section 3 - Unlined Pits

Tartara finite consequences of the consequence of t	
Would you like to utilize Unlined Pit PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	
Unlined pit precipitated solids disposal schedule attachment:	
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial use?	
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total Dissolved Solids the existing water to be protected?	(TDS) concentration equal to or less than that of
TDS lab results:	
Geologic and hydrologic evidence:	
State authorization:	
Unlined Produced Water Pit Estimated percolation:	
Unlined pit: do you have a reclamation bond for the pit?	
Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day): Injection well mineral owner:

PWD surface owner:

Produced Water Disposal (PWD) Location:

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



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

# Bond Info Data Report 02/25/2019

#### **Bond Information**

Federal/Indian APD: FED

BLM Bond number: NM1693

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

**BLM** reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: