Form 3160-3 (June 2015)

Carlsbad Field Office OCD Artesta

UNITED STATES DEPARTMENT OF THE INTERIOR NOV 0 6 2018

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

5 Lease Serial No NMNM56426

BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL DISE REPENZIERESIA OCOL 6. If Indian Alloree or Tribe Name

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	EN l'ER			7 If Unit or CA Agn	eement. Name and No
1b. Type of Well: ✓ Oil Well ☐ Gas Well ☐ Oth				8 Lease Name and V	
1c. Type of Completion ☐ Hydraulic Fracturing ✓ Sin	gle Zone	Multiple Zone		PAVO FRIO 29/30	B2FE FED COM
				1H 326	2846
2 Name of Operator MEWBOURNE OIL COMPANY		1474	14		15/45405
	3b Phone N (575)393-5	No <i>(include area code</i> 1 <mark>905</mark>	,		SONE SPRING OIL / B
4. Location of Well (Report location clearly and in accordance wi	ith any State	requirements.*)			Blk and Survey or Area
At surface SENW / 2100 FNL / 2450 FWL / LAT 32.7199 At proposed prod. zone SWNW / 2100 FNL / 330 FWL / L		/	207428	SEC 29 / T18S / R2	29E / NMP
14. Distance in miles and direction from nearest town or post offic 20 miles			<u> </u>	12 County or Parish EDDY	13. State
location to nearest	16 No of a	- / / / / X	17 Spacir 320	LUnit dedicated to the	ns well
18. Distance from proposed location* to percest well drilling completed	19. Propose 7617 feet /	/ \	20/BLM/	BIA Bond No. in file	
/ \	07/1 6/ 2018	1	start*	23. Estimated duration 60 days	on
	24. Attad	hments			
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil	and Gas Order No. 1.	and the H	ydraulic Fracturing re	ile per 43 CFR 3162 3-3
Well plat certified by a registered surveyor. A Drilling Plan		4. Bond to cover the Item 20 above).	: operation:	s unless covered by an	existing bond on file (see
3 A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)		Operator certifica Such other site spe BLM.		mation and/or plans as	may be requested by the
25 Signature		(Printed Typed)		_	Date
(Electronic Submission)	Bradio	ey Bishop / Ph: (575)393-590	5	04/13/2018
Title Regulatory					
Approved by (Signature) (Electronic Submission)		: (Printed Typed) topher Walls / Ph: (5	75)234-2		Date 10/24/2018
Title Petroleum Engineer	Office CARL	: .SBAD			
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any are attached.	holds legal	or equitable title to the	ose rights i	n the subject lease wh	nich would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma of the United States any false, fictitious or traudulent statements or					ny department or agency
			0.10	1	

proval Date: 10/24/2018

(Continued on page 2)

*(Instructions on page 2)

RW 11-07-18,

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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 1: 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 of tribal regulatory agencies and from local BLM offices.

NOTICES

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

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

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

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

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

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

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

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

(Form 3160-3, page 2)

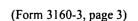
Additional Operator Remarks

Location of Well

1. SHL: SENW / 2100 FNL / 2450 FWL / TWSP: 18S / RANGE: 29E / SECTION: 29 / LAT: 32.7199223 / LONG: -104.0975389 (TVD: 0) feet, MD: 0 feet)
PPP: SWNW / 2100 FNL / 1189 FWL / TWSP: 18S / RANGE: 29E / SECTION: 30 / LAT: 32.7198941 / LONG: -104.0980011 (TVD: 702.09 feet, MD: 13780 feet)
PPP: SENW / 2100 FNL / 2308 FWL / TWSP: 18S / RANGE: 29E / SECTION: 29 / LAT: 32.7199221 / LONG: -104.0980011 (TVD: 702.09 feet, MD: 722.9 feet)
BHL: SWNW / 2100 FNL / 330 FWL / TWSP: 18S / RANGE: 29E / SECTION: 30 / LAT: 32.7198899 / LONG: -104.1207328 (TVD: 7617 feet, MD: 14638 feet)

BLM Point of Contact

Name: Katrina Ponder Title: Geologist Phone: 5752345969 Email: kponder@blm.gov



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 fixed Bureau of Land Management office for further information.



(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Mewbourne Oil Company

LEASE NO.: | NMNM056426

WELL NAME & NO.: | Pavo Frio 29/30 B2FE Fed Com 1H

SURFACE HOLE FOOTAGE: 2100'/N & 2450'/W BOTTOM HOLE FOOTAGE 2100'/N & 330'/W

LOCATION: | Section 29, T.18 S., R.29 E., NMPM

COUNTY: | Eddy County, New Mexico

 \mathbf{COA}

H2S	€ Yes	C No	
Potash	€ None	Secretary	↑ R-111-P
Cave/Karst Potential	د Low	○ Medium	C High
Variance	○ None	• Flex Hose	Other
Wellhead	Conventional	 Multibowl 	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	□ WIPP

A. Hydrogen Sulfide

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Yates** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 300 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,

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- 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.

- 3. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - Cement should tie-back 100' 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.

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)
 393-3612

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

A. CASING

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

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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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

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- 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. 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.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.

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- 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. 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.
- f. 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. This test shall be performed prior to the test at full stack pressure.
- g. 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.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

ZS 102218

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Mewbourne Oil Company

LEASE NO.: NMNM056426

WELL NAME & NO.: | Pavo Frio 29/30 B2FE Fed Com 1H

SURFACE HOLE FOOTAGE: 2100'/N & 2450'/W BOTTOM HOLE FOOTAGE 2100'/N & 330'/W

LOCATION: | Section 29, T.18 S., R.29 E., NMPM

COUNTY: Eddy County, New Mexico

TABLE OF CONTENTS

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

☐ General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Hydrology
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 acceptable weed control methods, which include following EPA and BLM requirements and policies.

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V. SPECIAL REQUIREMENT(S)

Hydrology

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

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

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

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VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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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

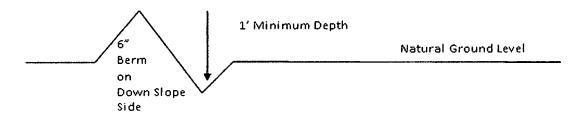
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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.

Construction Steps

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

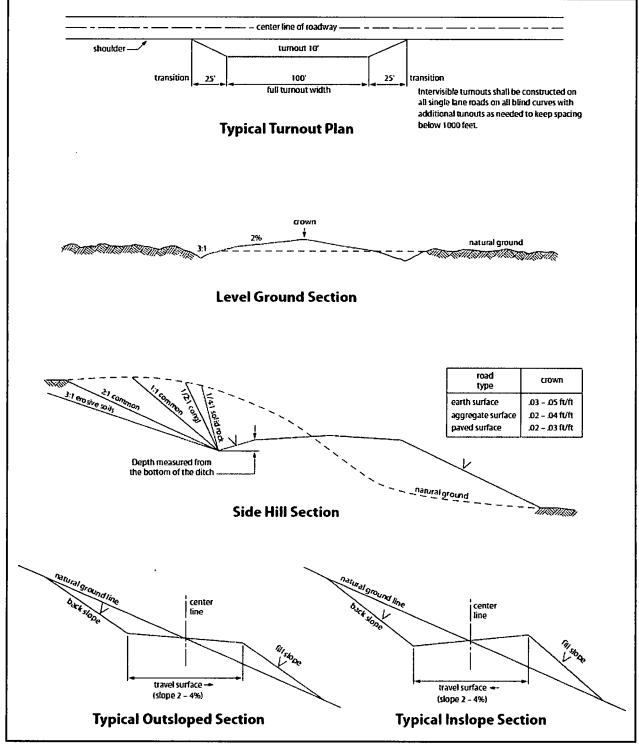


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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.

Page 9 of 11

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 11

Seed Mixture 2, for Sandy Sites

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

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

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

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

^{*}Pounds of pure live seed:

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



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



Operator Certification

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: 04/13/2018
Title: Regulatory		
Street Address: PO Box 5270		
City: Hobbs	State: NM	Zip: 88240
Phone: (575)393-5905		
Email address: bbishop@mewbou	rne.com	
Field Representative		
Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		



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



APD ID: 10400029413

Submission Date: 04/13/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2FE FED COM

Well Number: 1H

eceptit changes **Show Final Text**

griffighted dete Agam and stagle

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400029413

Tie to previous NOS?

Submission Date: 04/13/2018

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: NMNM056426

Lease Acres: 1046.15

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:

PavoFrio29 30B2FEFedCom1H operatorletterofdesignation 20180413094929.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: PAVO FRIO 29/30 B2FE FED COM

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PALMILLO EAST Pool Name: BONE SPRING

BONE SPRING OIL

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

Well Name: PAVO FRIO 29/30 B2FE 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: PAVO Number: 2

Well Class: HORIZONTAL FRIO GH&FE
Number of Legs:

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 20 Miles Distance to nearest well: 330 FT Distance to lease line: 185 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: PavoFrio29_30B2FEFedCom1H_wellplat_20180717103746.pdf

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	210 0	FNL	245 0	FWL	18S	29E	29	Aliquot SENW	32.71992 23	- 104.0975 389	EDD Y	NEW MEXI CO	' ' - ' '	l	NMNM 056426	350 7	0	0
KOP Leg #1	210 0	FNL	245 0	FWL	18S	29E	29	Aliquot SENW	32.71992 23	- 104.0975 389	EDD Y	NEW MEXI CO	117277	F	NMNM 056426	- 372 2	722 9	722 9
	210 0	FNL	230 8	FWL	18S	29E	29	Aliquot SENW	32.71992 21	- 104.0980 011	EDD Y	NEW MEXI CO			NMNM 056426	- 372 2	722 9	722 9

Well Name: PAVO FRIO 29/30 B2FE 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	DVT
PPP Leg #1	210 0	FNL	118 9	FWL	18S	29E	30	Aliquot SWN W	32.71989 41	- 104.1179 529	EDD Y		NEW MEXI CO		NMNM 056427	- 412 1	137 80	762 8
1	210 0	FNL	330	FWL	18S	29E	30	Aliquot SWN W	32.71988 99	- 104.1207 428	EDD Y	MEXI	1 - 1 - 1			- 411 0	146 38	761 7
BHL Leg #1	210 0	FNL	330	FWL	18S	29E	30	Aliquot SWN W	32.71988 99	- 104.1207 428	EDD Y	NEW MEXI CO			NMNM 056427	- 411 0	146 38	761 7

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

Statement Accepting Responsibility for Operations

Operator Name:

Mewbourne Oil Company

Street or Box:

P.O. Box 5270

City, State:

Hobbs, New Mexico

Zip Code:

88241

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

Lease Number:

NMNM 056426

Legal Description of Land:

Section 29, T18S, R29E Eddy County, New Mexico.

Location @ 2100 FNL & 2450 FWL

Formation (if applicable):

Bone Spring

Bond Coverage:

\$150,000

BLM Bond File:

NM1693 nationwide, NMB000919

Authorized Signature:

Name: Bradley Bishop

Title: Regulatory Manager

Date: 3-22-18

Well Name: PAVO FRIO 29/30 B2FE FED COM

Well Number: 1H

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

Choke Diagram Attachment:

Pavo_Frio_29_30_B2FE_Fed_Com_1H_3M_BOPE_Choke_Diagram_20180413105542.pdf
Pavo_Frio_29_30_B2FE_Fed_Com_1H_Flex_Line_Specs_20180413105706.pdf

BOP Diagram Attachment:

Pavo_Frio_29_30_B2FE_Fed_Com_1H_3M_BOPE_Schematic_20180413105718.pdf Pavo_Frio_29_30_B2FE_Fed_Com_1H_5M_Multi_Bowl_WH_20180413105745.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	Z	0	300	0	300	3508	3208	300	H-40	48	STC	5.48	12.3 2	DRY	22.3 6	DRY	37.5 7
	l	12.2 5	9.625	NEW	API	N	0	1150	0	1150	3508	2358	1150	J-55	36	LTC	3.38	5.89	DRY	10.9 4	DRY	13.6 2
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	7986	0	7707	3507	-4200	7986	P- 110	26	LTC	2.07	2.65	DRY	3.05	DRY	4
4	LINER	6.12 5	4.5	NEW	API	N	7229	14638	7229	7617	-3742	-4110	7409	P- 110	13.5	LTC	2.66	3.1	DRY	3.38	DRY	4.22

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Pavo_Frio_29_30_B2FE_Fed_Com_1H_Csg_Assumptions_20180413113019.pdf$

Casing Attachments
Casing ID: 2 String Type: INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Pavo_Frio_29_30_B2FE_Fed_Com_1H_Csg_Assumptions_20180413113008.pdf
Casing ID: 3 String Type: PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Pavo_Frio_29_30_B2FE_Fed_Com_1H_Csg_Assumptions_20180413113001.pdf
Casing ID: 4 String Type:LINER
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Pavo_Frio_29_30_B2FE_Fed_Com_1H_Csg_Assumptions_20180413112819.pdf

Well Number: 1H

Operator Name: MEWBOURNE OIL COMPANY **Well Name:** PAVO FRIO 29/30 B2FE FED COM

Section 4 - Cement

Well Name: PAVO FRIO 29/30 B2FE FED COM Well Number: 1H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	116	80	2.12	12.5	170	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		116	300	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	522	105	2.12	12.5	223	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		522	1150	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		950	5515	410	2.12	12.5	870	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		5515	7986	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		7229	1463 8	305	2.97	11.2	906	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

Describe the mud monitoring system utilized: Visual monitoring

Circulating Medium Table

Top Depth Bottom Depth

Well Name: PAVO FRIO 29/30 B2FE FED COM Well Number: 1H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Fitration (cc)	Additional Characteristics
0	300	SPUD MŪD	8.6	8.8							
300	1150	SALT SATURATED	10	10							
1150	7229	WATER-BASED MUD	8.6	9.5							
7229	7707	OIL-BASED MUD	8.6	10							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (7229') 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

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4008

Anticipated Surface Pressure: 2329.84

Anticipated Bottom Hole Temperature(F): 140

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:

Pavo_Frio_29_30_B2FE_Fed_Com_1H_H2S_Plan_20180413142947.pdf

Well Name: PAVO FRIO 29/30 B2FE FED COM Well Number: 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Pavo_Frio_29_30_B2FE_Fed_Com_1H_Dir_Plan_20180413143017.pdf Pavo_Frio_29_30_B2FE_Fed_Com_1H_Dir_Plot_20180413143025.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Pavo_Frio_29_30_B2FE_Fed_Com_1H_Drlg_Program.doc_20180413143049.docx

Other Variance attachment:



GATES E & S NORTH AMERICA, INC.

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

361-887-0812 FAX:

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.: Created By:	4/30/2015 D-043015-7 JUSTIN CROPPER	
Product Description:		10K3.548.0CK4.1/1610KFLGE/E	LE	
End Fitting 1 :	4 1/16 10K FLG 4773-6290	End Fitting 2 : Assembly Code :	4 1/16 10K FLG 136554102914D-043015-7	
Gates Part No. : Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI	†

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

Quality Manager:

Date:

Signature:

QUALITY

4/30/2015

Date:

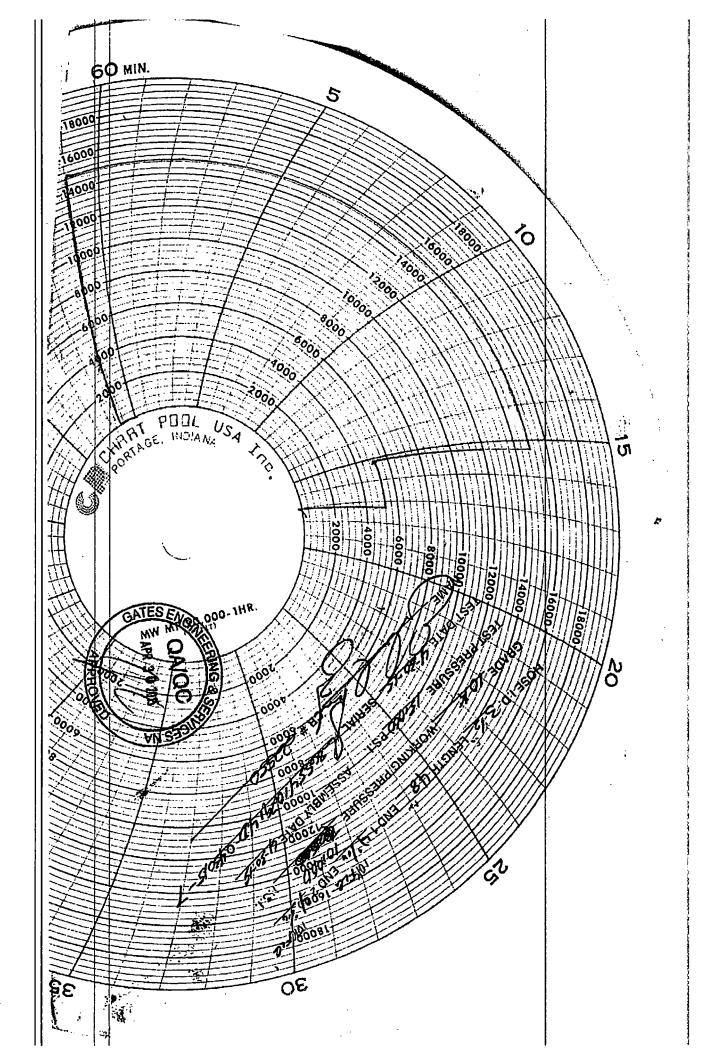
Signature :

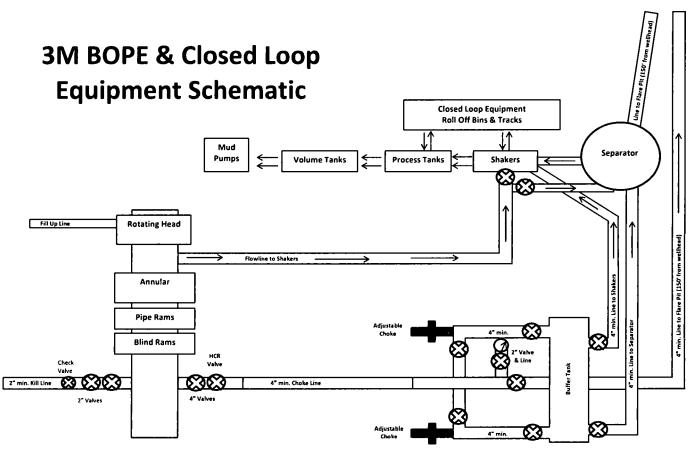
Produciton:

PRODUCTION

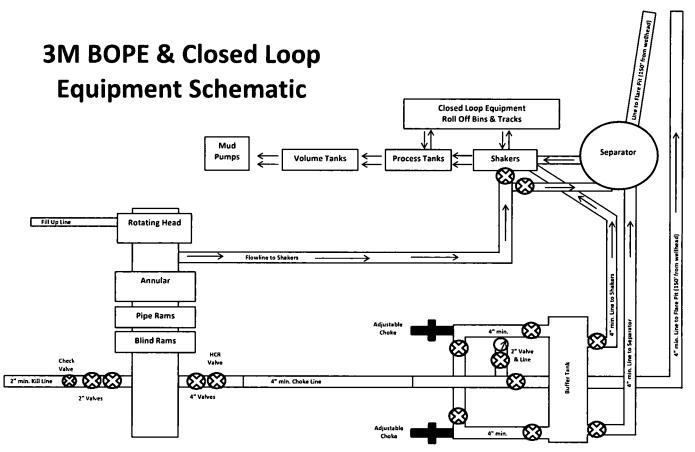
Forn PTC - 01 Rev.0 2







Drawing not to scale



Drawing not to scale



GATES E & S NORTH AMERICA, INC.

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX: 361-887-0812

WEB: www.gates.com

EMAIL: Tim.Cantu@gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

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

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

Quality Manager:

Date:

Signature :

QUALITY /

4/30/2015

Produciton:

Date:

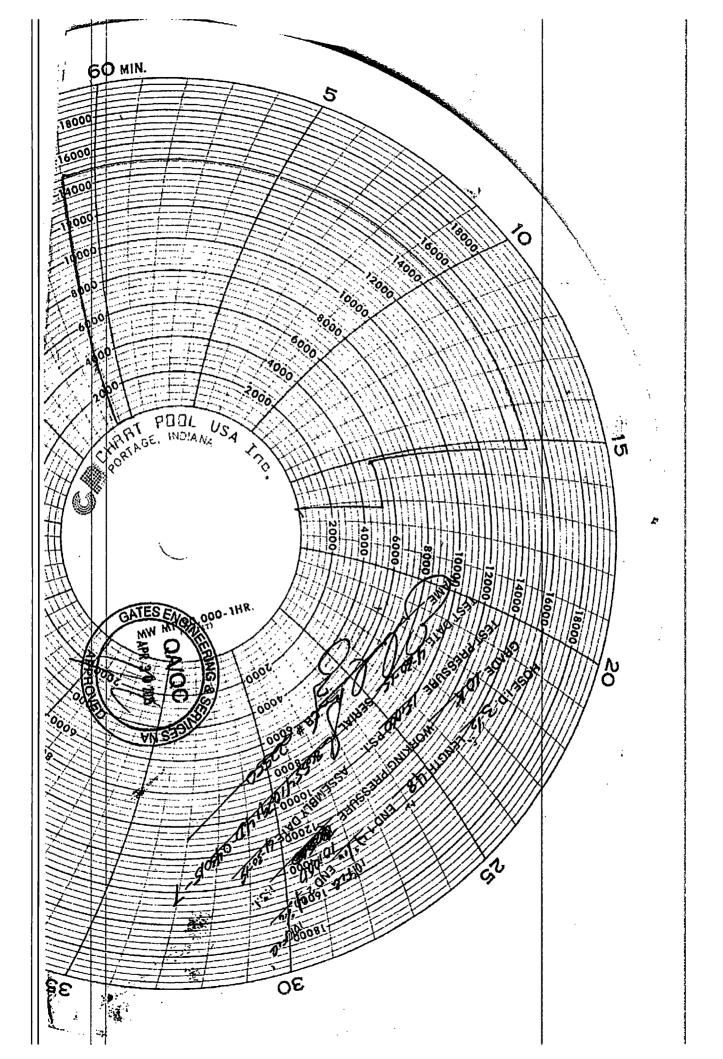
Signature :

PRODUCTION

4/30/2015

Forn PTC - 01 Rev.0 2

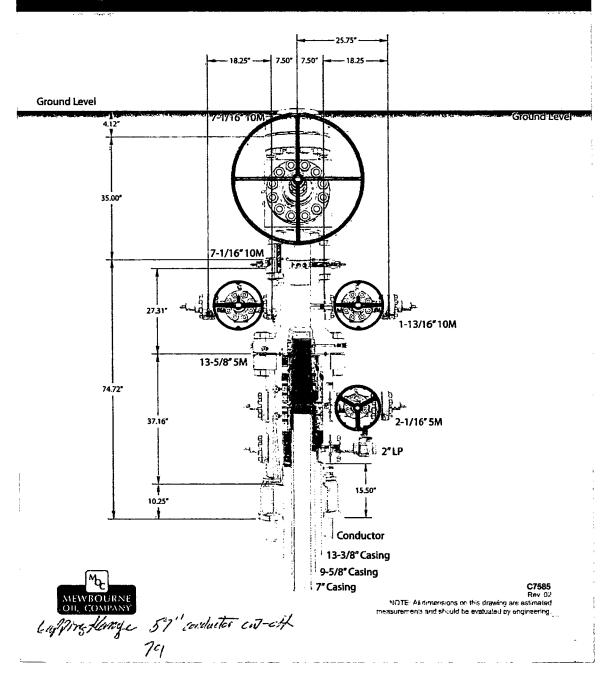


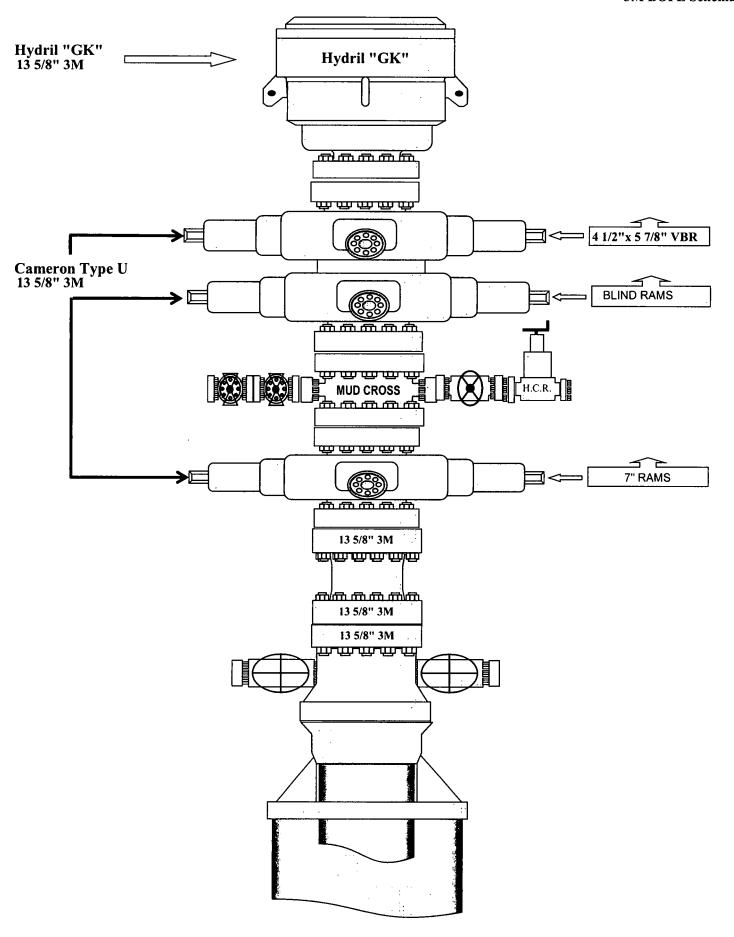


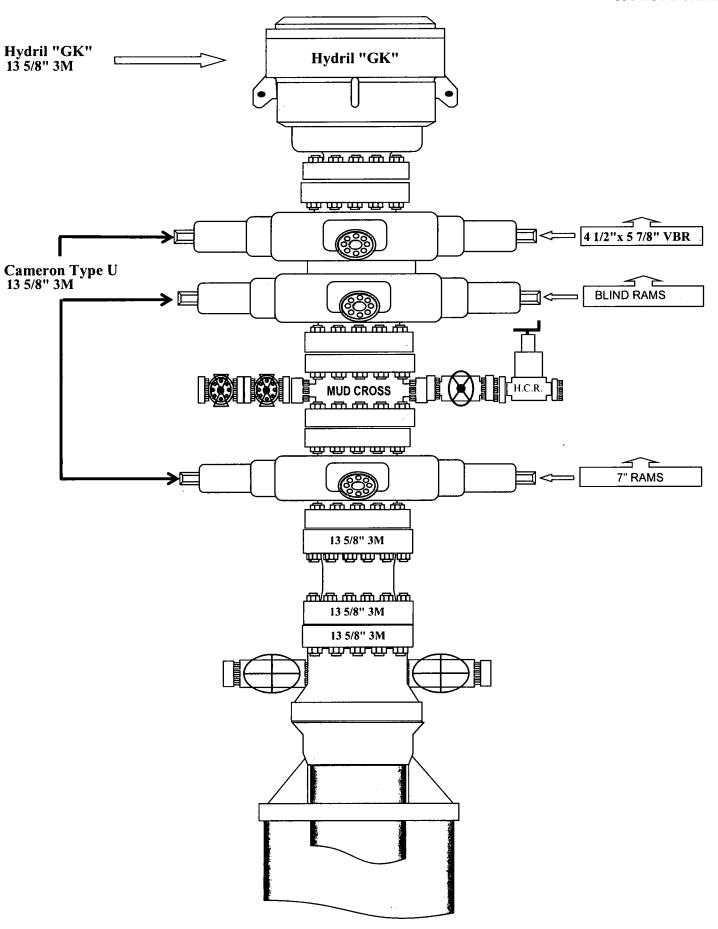


13-5/8" MN-DS Wellhead System

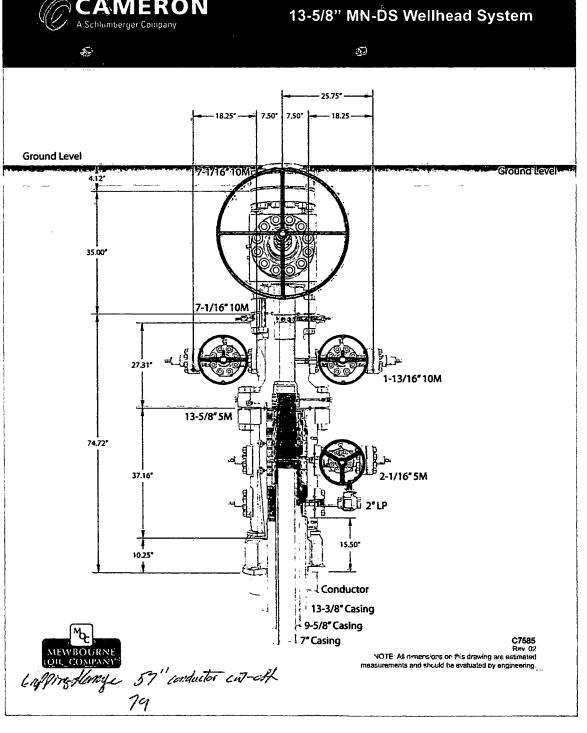
B











SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	300'	13.375"	48	H40	STC	5.48	12.32	22.36	37.57
12.25"	0'	1150'	9.625"	36	J55	LTC	3.38	5.89	10.94	13.62
8.75"	0'	7986'	7"	26	HCP110	LTC	2.07	2.65	3.05	4.00
6.125"	7229'	14638'	4.5"	13.5	P110	LTC	2.66	3.10	3.38	4.22
		_		BL	M Minimu	m Safety	1.125	l	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

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

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	300'	13.375"	48	H40	STC	5.48	12.32	22.36	37.57
12.25"	0'	1150'	9.625"	36	J55	LTC	3.38	5.89	10.94	13.62
8.75"	0'	7986'	7"	26	HCP110	LTC	2.07	2.65	3.05	4.00
6.125"	7229'	14638'	4.5"	13.5	P110	LTC	2.66	3.10	3.38	4.22
	•		•	BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

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

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	300'	13.375"	48	H40	STC	5.48	12.32	22.36	37.57
12.25"	0'	1150'	9.625"	36	J55	LTC	3.38	5.89	10.94	13.62
8.75"	0'	7986'	7"	26	HCP110	LTC	2.07	2.65	3.05	4.00
6.125"	7229'	14638'	4.5"	13.5	P110	LTC	2.66	3.10	3.38	4.22
		-		BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet
					-					

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

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	300'	13.375"	48	H40	STC	5.48	12.32	22.36	37.57
12.25"	0'	1150'	9.625"	36	J55	LTC	3.38	5.89	10.94	13.62
8.75"	0'	7986'	7"	26	HCP110	LTC	2.07	2.65	3.05	4.00
6.125"	7229'	14638'	4.5"	13.5	P110	LTC	2.66	3.10	3.38	4.22
			•	BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

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

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. <u>Protective Equipment for Essential Personnel</u>

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

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

3. Hydrogen Sulfide Protection and Monitoring Equipment

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

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

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

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

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

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Pavo Frio 29/30 B2FE Fed Com #1H

Sec 29, T18S, R29E

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

Plan: Design #1

Standard Planning Report

02 April, 2018

TVD Reference:

MD Reference:

North Reference:

Database:

Hobbs

Company:

Mewbourne Oil Company

Project:

Eddy County, New Mexico NAD 83 Pavo Frio 29/30 B2FE Fed Com #1H

Site: Well:

Wellbore:

BHL: 2100' FNL & 330' FWL (30)

Design:

Design #1

Sec 29, T18S, R29E

Project

Map System: Map Zone:

Geo Datum:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

Eddy County, New Mexico NAD 83

System Datum:

Local Co-ordinate Reference:

Survey Calculation Method:

Mean Sea Level

Grid

Minimum Curvature

Site Pavo Frio 29/30 B2FE Fed Com #1H

WELL @ 3507.0usft (Original Well Elev)

WELL @ 3507.0usft (Original Well Elev)

Site Pavo Frio 29/30 B2FE Fed Com #1H

Site Position:

From:

Мар

Northing: Easting:

625,720.00 usft 613,854.00 usft

Latitude:

Longitude:

32.7199227

Position Uncertainty:

0.0 usft Slot Radius:

13-3/16 "

Grid Convergence:

-104.0975394

0.13 4

Well Sec 29, T18S, R29E

Well Position

+N/-S +E/-W 0.0 usft 0.0 usft

Northing: Easting:

625,720.00 usft 613,854.00 usft Latitude: Longitude: 32.7199227

Position Uncertainty

0.0 usft

Wellhead Elevation:

3,507.0 usft

Ground Level:

-104.0975394 3,480.0 usft

Wellbore

BHL: 2100' FNL & 330' FWL (30)

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

(nT)

IGRF2010

3/28/2018

7.03

60.38

48,179

Design

Design #1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

Depth From (TVD)

+N/-S

+E/-W

Direction

Vertical Section:

(usft) 0.0

(usft) 0.0

(usft) 0.0

(°) 269,78

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,229.0	0.00	0.00	7,229.0	0.0	0.0	0.00	0.00	0.00	0.00	KOP @ 7229'
7,986.4	90.78	269.78	7,707.0	-1.8	-484.5	11.99	11.99	0.00	-9 0.22	
14,638.5	90.78	269.78	7,617.0	-27.0	-7,136.0	0.00	0.00	0.00	0.00	BHL: 2100' FNL & 330

Database:

Hobbs

Company:

Mewbourne Oil Company

Project:

Eddy County, New Mexico NAD 83 Pavo Frio 29/30 B2FE Fed Com #1H

Site: Well:

Sec 29, T18S, R29E

Wellbore:

BHL: 2100' FNL & 330' FWL (30)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Pavo Frio 29/30 B2FE Fed Com #1H WELL @ 3507.0usft (Original Well Elev) WELL @ 3507.0usft (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)
	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
0.0 SI : 2100' FN	0.00 L & 2450' FWL (0.0	0.0	0.0	0.0	0.00	0.00	0.00
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
									0.00
500.0	0.00 0.00	0.00 0.00	500.0 600.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00
600.0 700.0	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
									0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00 0.00	0.00 0.00	0.00 0.00
2,600.0 2,700.0	0.00	0.00 0.00	2,600.0	0.0 0.0	0.0	0.0 0.0	0.00	0.00	0.00
2,700.0	0.00 0.00	0.00	2,700.0 2,800.0	0.0	0.0 0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0,00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00

Database:

Hobbs

Company:

Mewbourne Oil Company

Project:

Eddy County, New Mexico NAD 83 Pavo Frio 29/30 B2FE Fed Com #1H

Site: Well:

Sec 29, T18S, R29E

Wellbore:

BHL: 2100' FNL & 330' FWL (30)

Design:

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Pavo Frio 29/30 B2FE Fed Com #1H WELL @ 3507.0usft (Original Well Elev)

WELL @ 3507.0usft (Original Well Elev)

Grid

d Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00								
5,500.0	0.00	0.00	5,500.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00	0.00	0.00
5,600.0 5,700.0	0,00 0.00	0.00 0.00	5,600.0 5,700.0	0.0	0.0	0.0	0.00 0.00	0.00 0.00	0.00 0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	.0,0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,229.0	0.00	0.00	7,229.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 7229),								
7,300.0	8.51	269.78	7,299.7	0.0	-5.3	5.3	11.99	11.99	0.00
7 400 0	20.50	269.78	7.396.4	-0.1	-30.3	30.3	11.99	11.99	0.00
7,400.0			-						0.00
7,500.0 7,600.0	32.48 44.47	269.78 269.78	7,485.7 7,563.9	-0.3 -0.5	-74.8 -136.9	74.8 136.9	11.99 11.99	11.99 11.99	0.00
7,600.0	45.33	269.78	7,569.0	-0.5 -0.5	-142.0	142.0	11.99	11.99	0.00
			7,305.0	-0.5	-142.0	142.0	11.55	11,55	0,00
7,700.0	NL & 2308' FWL 56,45	269.78	7,627.4	-0.8	-213.9	213.9	11,99	11,99	0.00
7,700.0	30,43		7,027.4	-0.6	-213.9	213.9	11.99	11.99	
7,800.0	68.44	269.78	7,673.6	-1,1	-302.3	302.4	11.99	11.99	0.00
7,900.0	80.42	269.78	7,700.4	-1.5	-398.5	398.5	11.99	11.99	0.00
7,986.4	90.78	269.78	7,707.0	-1.8	-484.5	484.5	11.99	11.99	0.00
	IL & 1965' FWL (•							
8,000.0	90.78	269.78	7,706.8	-1.9	-498.1	498.1	0.00	0.00	0.00
8,100.0	90.78	269.78	7,705.5	-2.3	-598.1	598.1	0.00	0.00	0.00
8,200.0	90.78	269.78	7,704.1	-2.6	-698.1	698.1	0.00	0.00	0.00
8,300.0	90.78	269.78	7,702.8	-3.0	-798.1	798.1	0.00	0.00	0.00
8,400.0	90.78	269.78	7,701.4	-3.4	-898.1	898.1	0.00	0.00	0.00
8,500.0	90.78	269.78	7,700.1	-3.8	-998.1	998.1	0.00	0.00	0.00
8,600.0	90,78	269.78	7,698.7	-4.2	-1,098.1	1,098.1	0.00	0.00	0.00
8,700.0	90.78	269.78	7,697.3	-4.5	-1,198.1	1,198.1	0.00	0.00	0.00
8,700.0	90.78	269.78 269.78	7,697.3 7,696.0	-4.5 -4.9	-1,198.1	1,198.1	0.00	0.00	0.00
8,900.0	90.78	269.78	7,694.6	-5.3	-1,298.0	1,398.1	0.00	0.00	0.00
9,000.0	90.78	269.78	7,693.3	-5.7	-1,498.0	1,498.0	0.00	0.00	0.00
9,100.0	90.78	269.78	7,691.9	-6.0	-1,598.0	1,598.0	0.00	0.00	0.00
9,200.0	90.78	269.78	7,690.6	-6.4	-1,698.0	1,698.0	0.00	0.00	0.00
9,300.0	90.78	269.78	7,689.2	-6.8	-1,798.0	1,798.0	0.00	0.00	0.00
9,400.0	90.78	269.78	7,687.9	-7.2	-1,898.0	1,898.0	0.00	0.00	0.00
9,500.0	90.78	269.78	7,686.5	-7.6	-1,998.0	1,998.0	0.00	0.00	0.00
9,600.0	90.78	269.78	7,685.2	-7.9	-2,098.0	2,098.0	0.00	0.00	0.00
9,700.0	90.78	269.78	7,683.8	-8.3	-2,198.0	2,198.0	0.00	0.00	0.00
9,800.0	90.78	269.78	7,682.5	-8.7	-2,298.0	2,298.0	0.00	0.00	0.00
9,900.0	90.78	269.78	7,681.1	-9.1	-2,397.9	2,398.0	0.00	0.00	0.00

Database: Company: Hobbs

Mewbourne Oil Company

Project:

Eddy County, New Mexico NAD 83 Pavo Frio 29/30 B2FE Fed Com #1H

Site: Well:

Sec 29, T18S, R29E

Wellbore:

BHL: 2100' FNL & 330' FWL (30)

Design:

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Pavo Frio 29/30 B2FE Fed Com #1H WELL @ 3507.0usft (Original Well Elev)

WELL @ 3507.0usft (Original Well Elev)

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usit)	(/ loudsit)	(/ loousity	(/ toousit)
10,000.0	90.78	269.78	7,679.8	-9.5	-2,497.9	2,497.9	0.00	0.00	0.0
10,100.0	90.78	269.78	7,678.4	-9.8	-2,597.9	2,597.9	0.00	0.00	0.0
10,200.0	90.78	269.78	7,677.1	-10.2	-2,697.9	2,697.9	0.00	0.00	0.0
10,300.0	90.78	269.78	7,675.7	-10.6	-2,797.9	2,797.9	0.00	0.00	0.0
10,400.0	90.78	269.78	7,674.3	-11.0	-2,897.9	2,897.9	0.00	0.00	0.0
10,500.0	90.78	269.78	7,673.0	-11.3	-2,997.9	2,997.9	0.00	0.00	0.0
10,600.0	90.78	269.78	7,671.6	-11.7	-3,097.9	3,097.9	0.00	0.00	0.0
10 700 0	90,78	269.78	7,670.3	-12.1	-3,197.9	3,197.9	0.00	0.00	0.0
10,700.0 10,800.0	90.78	269.78	7,668.9	-12.1	-3,197.9	3,197.9	0.00	0.00	0.0
10,800.0	90.78	269.78	7,667.6 7,667.6	-12.5 -12.9	-3,397.8	3,297.9	0.00	0.00	0.00
11,000.0	90.78	269.78	7,666.2	-13.2	-3,397.8 -3,497.8	3,397.9	0.00	0.00	0.0
11,100.0	90.78	269.78	7,664.9	-13.6	-3,597.8	3,597.8	0.00	0.00	0.0
11,200.0	90.78	269.78	7,663.5	-14.0	-3,697.8	3,697.8	0.00	0.00	0.0
11,300.0	90.78	269,78	7,662,2	-14,4	-3,797.8	3,797.8	0.00	0.00	0.0
11,400.0	90.78	269.78	7,660.8	-14.7	-3,897.8	3,897.8	0.00	0.00	0.0
11,500.0	90.78	269.78	7,659.5	-15.1	-3,997.8	3,997.8	0.00 0.00	0.00 0.00	0.00 0.00
11,600.0	90.78	269.78	7,658.1	-15.5	-4,097.8	4,097.8			
11,700.0	90.78	269.78	7,656.8	-15.9	-4,197.8	4,197.8	0.00	0.00	0.0
11,800.0	90.78	269.78	7,655.4	-16,3	-4,297.8	4,297.8	0.00	0.00	0.00
11,900.0	90.78	269.78	7,654.1	-16.6	-4,397.7	4,397.8	0.00	0.00	0.0
12,000.0	90.78	269.78	7,652.7	-17.0	-4,497.7	4,497.8	0.00	0.00	0.00
12,100.0	90.78	269.78	7,651.3	-17.4	-4,597.7	4,597.8	0.00	0.00	0.00
12,200.0	90.78	269.78	7,650.0	-17.8	-4,697.7	4,697.7	0.00	0.00	0.00
12,300.0	90.78	269.78	7,648.6	-18.2	-4,797.7	4,797.7	0.00	0.00	0.00
12,400.0	90.78	269.78	7,647.3	-18.5	-4,897.7	4,897.7	0.00	0.00	0.00
12,500.0	90.78	269.78	7,645.9	-18.9	-4,997.7	4,997.7	0.00	0.00	0.00
12,600.0	90.78	269.78	7,644.6	-19.3	-5,097.7	5,097.7	0.00	0.00	0.00
12,700.0	90.78	269.78	7,643.2	-19.7	-5,197.7	5,197.7	0.00	0.00	0.00
12,800.0	90.78	269.78	7,641.9	-20.0	-5,297.7	5,297.7	0.00	0.00	0.00
12,900.0	90.78	269.78	7,640.5	-20.4	-5,397.6	5,397.7	0.00	0.00	0.00
13,000.0	90.78	269.78	7,639.2	-20.8	-5,497.6	5,497.7	0.00	0.00	0.00
13,100.0	90.78	269.78	7,637.8	-21.2	-5,597.6	5,597.7	0.00	0.00	0.00
13,200.0	90.78	269.78	7,636.5	-21.6	-5,697.6	5,697.7	0.00	0.00	0.00
13,300.0	90.78	269.78	7,635.1	-21.9	-5,797.6	5,797.6	0.00	0.00	0.00
13,400.0	90.78	269.78	7,633.8	-22.3	-5,897.6	5,897.6	0.00	0.00	0.00
13,500.0	90.78	269.78	7,632.4	-22.7	-5,997.6	5,997.6	0.00	0.00	0.00
13,600.0	90.78	269.78	7,631.1	-23.1	-6,097.6	6,097.6	0.00	0.00	0.00
13,700.0	90.78	269.78	7,629.7	-23.4	-6,197.6	6,197.6	0.00	0.00	0.00
13,780.4	90.78	269.78	7,628.6	-23.8	-6,278.0	6,278.0	0.00	0.00	0.00
	' FNL & 2378' FV		•		·	•			
13,800.0	90,78	269.78	7,628.3	-23.8	-6,297.6	6,297.6	0.00	0.00	0.00
13,900.0	90.78	269.78	7,627.0	-24.2	-6,397.5	6,397.6	0.00	0.00	0.00
14,000.0	90.78	269.78	7,625.6	-24.6	-6,497.5	6,497.6	0.00	0.00	0.00
14,100.0	90.78	269.78	7,624.3	-25.0	-6,597.5	6,597.6	0.00	0.00	0.00
14,200.0	90.78	269.78	7,622.9	-25.3	-6,697.5	6,697.6	0.00	0.00	0.00
14,300.0	90.78	269.78	7,621.6	-25.7	-6,797.5	6,797.6	0.00	0.00	0.00
14,400.0	90.78	269.78	7,620.2	-26.1	-6,897.5	6,897.5	0.00	0.00	0.00
14,500.0	90.78	269.78	7,618.9	-26.5	-6,997.5	6,997.5	0.00	0.00	0.00
14,600.0	90.78	269.78	7,617.5	-26.9	-7,097.5	7,097.5	0.00	0.00	0.00
14,638.5	90.78	269.78	7,617.0	-27.0	-7,136.0	7,136.1	0.00	0.00	0.0

Database:

Hobbs

Company:

Mewbourne Oil Company

Project:

Eddy County, New Mexico NAD 83 Pavo Frio 29/30 B2FE Fed Com #1H

Site: Well:

Sec 29, T18S, R29E

Wellbore:

BHL: 2100' FNL & 330' FWL (30)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

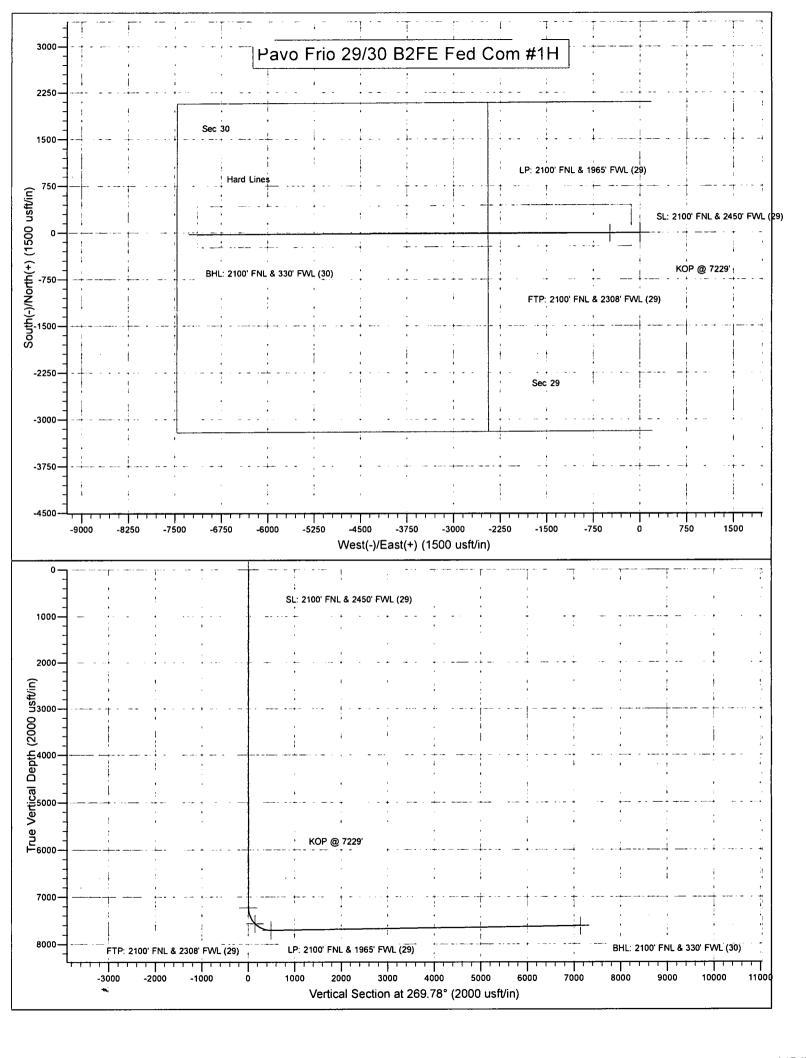
Survey Calculation Method:

Reference: Site Pavo Frio 29/30 B2FE Fed Com #1H

WELL @ 3507.0usft (Original Well Elev)
WELL @ 3507.0usft (Original Well Elev)

Grid

Design Targets		-				~			
Target Name - hit/mlss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 2100' FNL & 2450' F - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	625,720.00	613,854.00	32.7199227	-104.0975394
KOP @ 7229' - plan hits target cent - Point	0.00 er	0.00	7,229.0	0.0	0.0	625,720.00	613,854.00	32.7199227	-104.0975394
FTP: 2100' FNL & 2308' - plan hits target cent - Point	0.00 er	0.00	7,569.0	-0.5	-142.0	625,719,47	613,712.00	32,7199221	-104.0980011
BHL: 2100' FNL & 330' F - plan hits target cent - Point	0.00 er	0.00	7,617.0	-27.0	-7,136.0	625,693.00	606,718.00	32,7198899	-104.1207428
PPP-2: 2100' FNL & 237 - plan hits target cent - Point	0.00 er	0.00	7,628.6	-23.8	-6,278.0	625,696.25	607,576.00	32.7198941	-104.1179529
LP: 2100' FNL & 1965' F - plan hits target cent - Point	0.00 er	0.00	7,707.0	-1.8	-484.5	625,718.17	613,369.50	32.7199206	-104.0991148



SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

1. Geologic Formations

TVD of target	7707'	Pilot hole depth	NA
MD at TD:	14638'	Deepest expected fresh water:	200'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Target Zone.	
Rustler			
Top of Salt	470		
Castile			
Base of Salt	820		
Yates	990	Oil/Gas	
Seven Rivers	1330	Oil/Gas	
Queen	1940	Oil/Gas	
Grayburg	2320		
San Andreas	2820	Oil/Gas	
Bone Spring	3710	Oil/Gas	
1st Bone Spring Sand	6610	Oil/Gas	
2 nd Bone Spring Sand	7460	Target Zone	
3rd Bone Spring Sand			
Abo			
Wolfcamp			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

2. Casing Program

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

Hole Size		ising erval	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	Fro	To		, ,		<u> </u>				
	m									
17.5"	0'	300'	13.375"	48	H40	STC	5.48	12.32	22.36	37.57
12.25"	0'	1150'	9.625"	36	J55	LTC	3.38	5.89	10.94	13.62
8.75"	0'	7986'	7"	26	HCP110	LTC	2.07	2.65	3.05	4.00
6.125"	7229'	14638'	4.5"	13.5	P110	LTC	2.66	3.10	3.38	4.22
BLM	1.125	1	1.6 Dr	y 1.6 Dr	y					
Minimu			1.8 We	et 1.8 W	et					
m										
Safety										
Factor										

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

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	80	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.	105	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	88	Tail: Class C + Retarder
Prod. Stg 1	410	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	305	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	950'	25%
Liner	7229'	25%

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

4. Pressure Control Equipment

Variance: None	

BOP installed and tested before drilling which hole?	Size?	System Rated WP	7	Туре		Tested to:
			Annular		X	1500#
		3M	Blir	nd Ram	X	
12-1/4"	13-5/8"		Pipe Ram		X	3000#
			Doul	ble Ram		3000#
			Other*			

^{*}Specify if additional ram is utilized.

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

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

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

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	300	FW Gel	8.6-8.8	28-34	N/C
300	1150	Saturated Brine	10.0	28-34	N/C
1150	7229	Cut Brine	8.6-9.5	28-34	N/C
7229	14638	OBM	8.6-10.0	30-40	<10cc

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

What will be used to monitor the loss or gain	Visual monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	Logging, Coring and Testing.		
X	Will run GR/CNL from KOP (7229') to surface (horizontal well – vertical portion of		
	hole). Stated logs run will be in the Completion Report and submitted to the BLM.		
	No Logs are planned based on well control or offset log information.		
	Drill stem test? If yes, explain		
	Coring? If yes, explain		

Additional logs planned		Interval
X	Gamma Ray	7229' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

SL: 2100' FNL & 2450' FWL (29) BHL: 2100' FNL & 330' FWL (30)

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4008 psi
Abnormal Temperature	No

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

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

8. Other facets of operation

Is th	iis a walking operation?	If yes, describe.
Wil	l be pre-setting casing?	If yes, describe.
	1 8 8	,
Δtts	nchments	
Atte		
	Directional Plan	
	Other, describe	
	omer, accorde	



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



APD ID: 10400029413

Submission Date: 04/13/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PAVO FRIO 29/30 B2FE FED COM

Well Number: 1H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PavoFrio29_30B2FEFedCom1H_existingroadmap_20180413095028.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

WM new reads be needed? YES

New Road Map:

PavoFrio29_28B2GHFedCom1H_newroadmap_20180810121756.pdf

New road type: LOCAL

Length: 200.13

Feet

Width (ft.): 20

Max slope (%): 3

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: None

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Well Name: PAVO FRIO 29/30 B2FE FED COM Well Number: 1H

Access surfacing type: OTHER

Access topsoil source: OFFSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth:

Offsite topsoil source description: None

Onsite topsoil removal process:

Access other construction information: None

Access miscellaneous information: None

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: None

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

PavoFrio29 30B2FEFedCom1H_existingwellmap_20180413093517.pdf

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 south 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:

Well Name: PAVO FRIO 29/30 B2FE FED COM Well Number: 1H

PavoFrio29_30B2FEFedCom1H_productionfacilitymap_20180413095100.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: -104.12318

Source latitude: 32.705666 Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 2515 Source volume (acre-feet): 0.32416615

Source volume (gal): 105630

Water source and transportation map:

PavoFrio29 30B2FEFedCom1H_watersourceandtransmap_20180413094245.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

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

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

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

Well Production type: Completion Method:

Water well additional information:

Well Name: PAVO FRIO 29/30 B2FE FED COM Well Number: 1H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche

Construction Materials source location attachment:

PavoFrio29 30B2FEFedCom1H calichesourceandtransmap 20180413094538.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 1515 barrels

Waste disposal frequency: One Time Only

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

Safe containment attachment:

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

FACILITY

Disposal type description:

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

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

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons
Waste disposal frequency: Weekly

Safe containment description: 2,000 gallon plastic container

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500 pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

Operator Name: MEWBOURNE OIL COMPANY	
Well Name: PAVO FRIO 29/30 B2FE FED COM	Well Number: 1H
Waste disposal type: HAUL TO COMMERCIAL	Disposal location ownership: PRIVATE
Disposal type description:	
Disposal location description: Waste Manageme	ent facility in Carlsbad.
Pasarya Pit	
Reserve Pit Reserve Pit being used? NO	
Temporary disposal of produced water into res	erve pit?
Reserve pit length (ft.) Reserve pit wid	
Reserve pit depth (ft.)	Reserve pit volume (cu. yd.)
s at least 50% of the reserve pit in cut?	
Reserve pit liner	
Reserve pit liner specifications and installation	description
Cuttings Ar	'ea
Cuttings Area being used? NO Are you storing cuttings on location? NO	
Description of cuttings location	Cuttings area width (ft)
Cuttings area length (ft.) Cuttings area depth (ft.)	Cuttings area width (ft.) Cuttings area volume (cu. yd.)
s at least 50% of the cuttings area in cut?	outiligs area volulile (cu. yu.)
WCuttings area liner	
vocutings area liner Cuttings area liner specifications and installation	on description
outungs area uner specifications and installatio	on accompany
Section 8 - Ancillary Facilities	
Are you requesting any Ancillary Facilities?: NO	0
Ancillary Facilities attachment:	
S .	
Comments:	

Well Name: PAVO FRIO 29/30 B2FE FED COM Well Number: 1H

Section 9 - Well Site Layout

Well Site Layout Diagram:

PavoFrio29_30B2FEFedCom1H_wellsitelayout_20180413094607.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: PAVO FRIO GH&FE

Multiple Well Pad Number: 2

Recontouring attachment:

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

Well pad proposed disturbance

(acres): 4.132

Road proposed disturbance (acres):

0.092

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 4.224

Well pad interim reclamation (acres):

Road interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 0.813

Well pad long term disturbance

(acres): 3.319

Road long term disturbance (acres): 0

(acres): 0

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

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 3.319

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:

Operator Name: MEWBOURNE OIL	_ COMPANY	
Well Name: PAVO FRIO 29/30 B2FI	E FED COM	Well Number: 1H
Existing Vegetation Community at	the pipeline: NA	
Existing Vegetation Community at	the pipeline attac	hment:
Existing Vegetation Community at	other disturbance	es: NA
Existing Vegetation Community at	other disturbance	es attachment:
Non native seed used? NO		
Non native seed description:		
Seedling transplant description:		·
Will seedlings be transplanted for t	his project? NO	
Seedling transplant description att	achment:	
Will seed be harvested for use in si	ite reclamation? N	NO
Seed harvest description:		
Seed harvest description attachme	nt:	
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 Summa	ary	Total pounds/Acre:
Seed Type Po	ounds/Acre	
Seed reclamation attachment:		
Operator Contact/Respondent	onsible Offici	al Contact Info

First Name: Bradley Last Name: Bishop

Phone: (575)393-5905 Email: bbishop@mewbourne.com

Well Name: PAVO FRIO 29/30 B2FE FED COM Well Number: 1H

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

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

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

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: NA

Weed treatment plan attachment:

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

Monitoring plan attachment:

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

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT, STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: NMSLO HOBBS, NM

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: MEWBOURNE OIL COMPANY	
Well Name: PAVO FRIO 29/30 B2FE FED COM	Well Number: 1H
Disturbance type: EXISTING ACCESS ROAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT,STATE	GOVERNMENT
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
OOD Local Office:	
NPS Local Office:	
State Local Office: NMSLO HOBBS, NM	
Military Local Office:	
JSFWS Local Office:	
Other Local Office:	
JSFS Region:	
JSFS Forest/Grassland:	USFS Ranger District:
Disturbance type: WELL PAD	
Describe:	
Surface Owner: PRIVATE OWNERSHIP	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
OOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
JSFWS Local Office:	
Other Local Office:	
JSFS Region:	
JSFS Forest/Grassland:	USFS Ranger District:

Well Name: PAVO FRIO 29/30 B2FE FED COM

Well Number: 1H

Fee Owner: COG Operating, LLC ETAL

Fee Owner Address: 1293 CR 305, Midland, TX 79701

Phone: (432)221-0500

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SUA

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

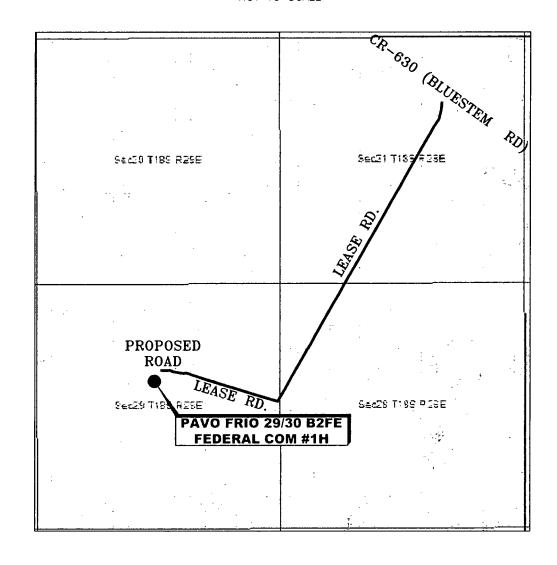
Previous Onsite information: MAR 6 2018 Met w/RRC Surveying & staked location @ 2100' FNL & 2500' FEL, Sec 29, T18S, R29E, Eddy Co., NM. Location was unacceptable due to buried pipelines angling on N & E sides. Re-staked location @ 2100' FNL & 2450' FWL, Sec 29, T18S, R29E, Eddy Co., NM. (Elevation @ 3480'). Pad size is 400' x 450'. Topsoil will be stockpiled 30' wide on S side. Reclaim 60' S & E. A battery pad is staked to the W of the well pad. Road is off the NE corner going N to lease road. Will require onsite w/BLM. Lat. 32.71992231 N, Long. -104.09753885 W NAD83.

Other SUPO Attachment

 $\label{lem:pavoFrio29_30B2FEFedCom1H_interimreclaimation diagram_20180413094828.pdf $$PavoFrio29_30B2FEFedCom1H_gascapture plan_20180413094842.pdf $$$

VICINITY MAP

NOT TO SCALE



SECTION 29, TWP. 18 SOUTH, RGE. 29 EAST, N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: Mewbourne Oil Company LOCATION: 2100' FNL & 2450' FWL LEASE: Pavo Frio 29/30 B2FE Federal Com ELEVATION: 3480'

WELL NO.: 1H

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NO. REVISION DATE

JOB NO.: LS1802234

DWG. NO.: 1802234-3



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

SCALE: 1" = 1000'

DATE: 02-28-2018

SURVEYED BY: ML/TF

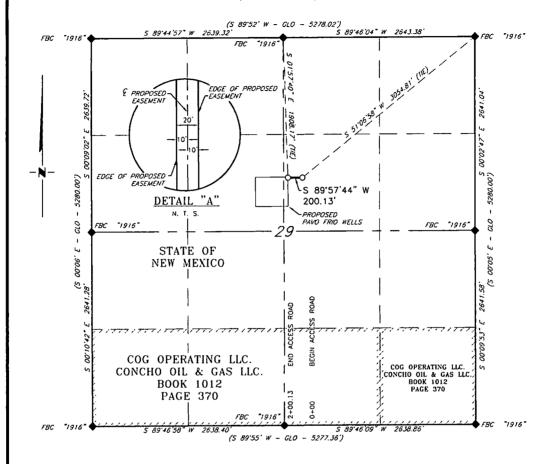
DRAWN BY: KAKN

APPROVED BY: RMH

SHEET: 1 OF 1

MEWBOURNE OIL COMPANY PROPOSED ACCESS ROAD FOR THE PAVO FRIO 29/28 B2GH FEDERAL COM #1H & 29/30 B2FE FEDERAL COM #1H SECTION 29, T18S, R29E,

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



DESCRIPTION

A strip of land 20 feet wide, being 200.13 feet or 12.129 rods in length, lying in Section 29, Township 18 South, Range 29 East, N. M. P. M., Eddy County, New Mexico, being 10 feet left and 10 feet right of the following described survey of a centerline across State of New Mexico land:

BEGINNING at Engr. Sta. 0+00, a point in the Northeast quarter of Section 29, which bears, S 51°06'58" W, 3,054.81 feet from a brass cap, stamped "1916", found for the Northeast corner of Section 29;

Thence S 89'57'44" W, 200.13 feet, to Engr. Sta. 2+00.13, the End of Survey, a point in Northeast quarter of Section 29, which bears, S 01'57'40" E, 1,908.17 feet from a brass cap, stamped "1916", found for the North quarter corner of Section 29.

Said strip of land contains 0.092 acres, more or less, and is allocated by forties as follows:

SW 1/4 NE 1/4 12.129 Rods 0.092 Acres



BEARINGS ARE GRID NAD 83 DISTANCES ARE HORIZ. GROUND

LEGEND

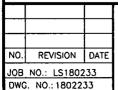
RECORD DATA - GLO FOUND MONUMENT

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify true and correct to the best of my knowledge and belief.

Hobert M. Howell NM PS 19680

PROPOSED ACCESS ROAD Robert M. Howett

OK RT

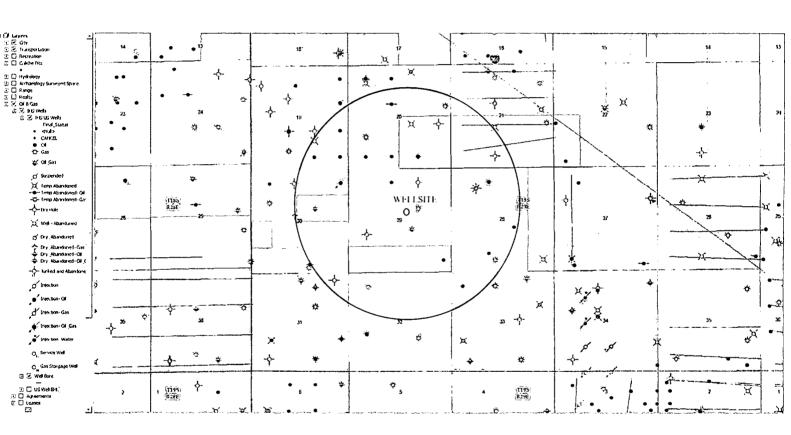




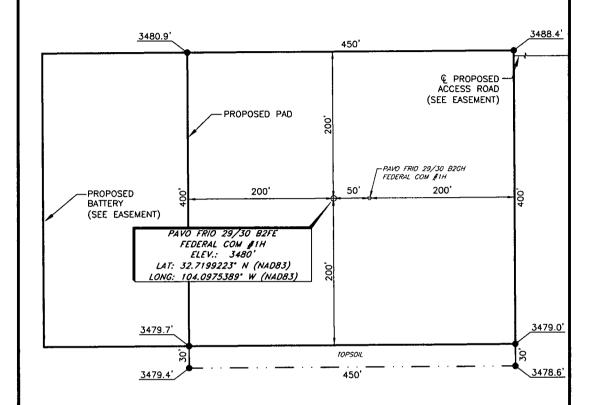
308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200 TE OS ONAL SCALE: 1" = 1000 DATE: 02/28/2018 SURVEYED BY: ML/TF DRAWN BY: KAKN APPROVED BY: RMH SHEET: 1 OF 1

M. HOWK

EXISTING WELL MAP PAVO FRIO 29/30 B2FE FEDERAL COM #1H



MEWBOURNE OIL COMPANY PAVO FRIO 29/30 B2FE FEDERAL COM #1H (2100' FNL & 2450' FWL) SECTION 29, T18S, R29E N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR-360 (Bluestern Road) and CR-210,

Go Northwest on CR-360 approx. 1.0 miles to lease road on left;

Turn left and go Southwest approx. 1.4 miles to a lease road on the right;

Turn right and go Northwest approx. 0.5 miles to proposed road on left;

Turn left and go West on proposed road approx. 200 feet to location.



BEARINGS ARE GRID NAD 83 KNOWLEDGE ONC.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location 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.

Howett

Robert M. Howett

NM PS 19680

03/03/10 Riss/ONAL SUR

M. Hon

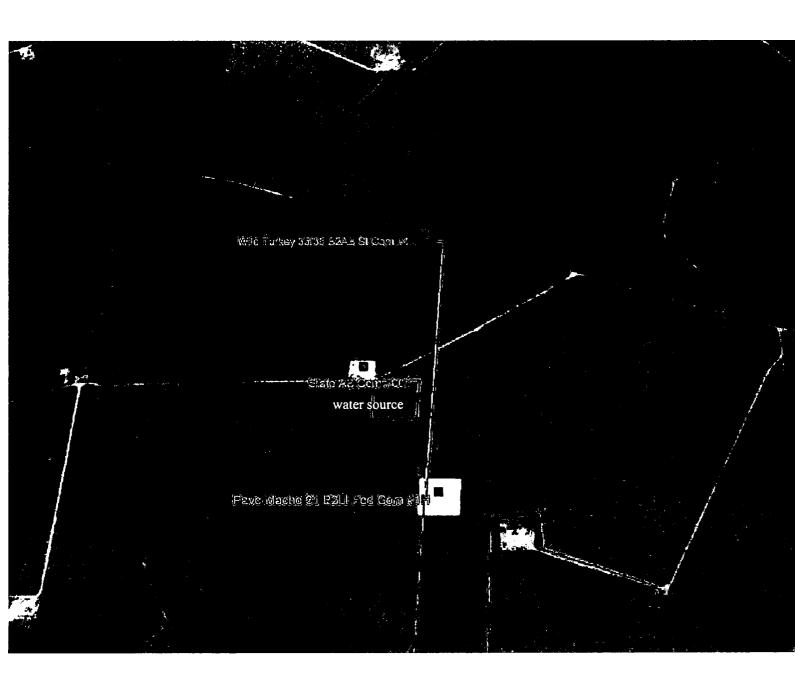
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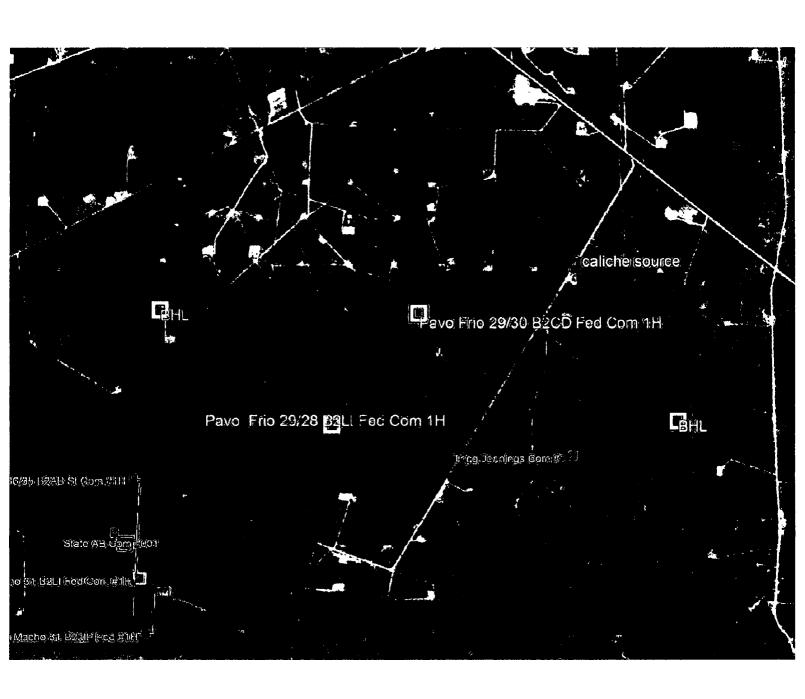
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NO.	REVISION	DATE
JOB NO.: LS1802234		
DWG NO 1802234-4		

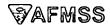


308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200 SCALE: 1" = 1000 DATE: 02/28/2018 SURVEYED BY: ML/TF DRAWN BY: KAKN APPROVED BY: RMH 1 OF 1 SHEET:





MEWBOURNE OIL COMPANY PAVO FRIO 29/30 B2FE FEDERAL COM #1H (2100' FNL & 2450' FWL) SECTION 29, T18S, R29E N. M. P. M., EDDY COUNTY, NEW MEXICO 3488.4° 3480.9 450' **♀** PROPOSED ACCESS ROAD (SEE EASEMENT) PROPOSED PAD -PAVO FRIO 29/30 B2GH FEDERAL COM ∦1H 200' 200' PROPOSED BATTERY (SEE EASEMENT) PAVO FRIO 29/30 B2FE FEDERAL COM #1H ELEV.: 3480' LAT: 32.7199223° N (NAD83) LONG: 104.0975389° W (NAD83) 3479.0 3479.7 20 TOPSON 3478.6 3479.4 450' DIRECTIONS TO LOCATION From the intersection of CR-360 (Bluestem Road) and CR-210, Go Northwest on CR-360 approx. 1.0 miles to lease road on left; Turn left and go Southwest approx. 1.4 miles to a lease road on the right; Turn right and go Northwest approx. 0.5 miles to proposed road on left; Turn left and go West on proposed road approx. 200 feet to location. OKRT OKRT M. Hon SEN METIC I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I, K. M. Howett, a N. M. Professional Surveyor, nereby certify the prepared this unclassified survey of a well location 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 O3/O3, REGONAL SU knowledge and belief. BEARINGS ARE GRID NAD 83 / NN EAST DISTANCES ARE HORIZ, GROUND. Robert M. Howett Robert M. Howett NM PS 19680 All Rights Rese SCALE: 1" = 1000" DATE: 02/28/2018 SURVEYED BY: ML/TF REVISION DRAWN BY: KAKN APPROVED BY: RMH JOB NO.: LS1802234 SHEET: 1 OF 1 DWG. NO.: 1802234-4 308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200



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



Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

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

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

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: