

Form 3160-5  
(October 2024)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0220  
Expires: October 31, 2027

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.	NMNM132939
6. If Indian, Allottee or Tribe Name	

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. MEDICINE HAT STATE COM/3H	
2. Name of Operator MACK ENERGY CORPORATION	9. API Well No. 3000564396	
3a. Address P O BOX 960, ARTESIA, NM 88211-0960	3b. Phone No. (include area code) (575) 748-1288	10. Field and Pool or Exploratory Area Round Tank/SAN ANDRES
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 27/T15S/R28E/NMP		11. Country or Parish, State CHAVES/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

API # 30-005-64396, APD # 10400099059, Reason for Change- New Csg/Cmt Plan, Requesting Contingency Plan.

Mack Energy Corporation Request the following changes to the Medicine Hat State Com #3H.

Surface csg/cmt: Drill 17 1/2" hole to 450'. RIH w/ 13 3/8", 48#, J-55 ST&C @ 0-450', Collapse SF 3.29416, Burst SF 4.652898, Joints SF 23.49763, Body SF 4.74. Lead cmt w/ 150sx Class C+4% PF20+1% PF1+0.125#/skPF29+.4%PF45, density-13.5, yld-2.31, 9.166gals/sk, 100%excess, Slurry Top-Surface. Tail cmt w/ 200sx Class C+1%PF1, density-14.8, yld- 1.32, 6.307gals/sk, 100%excess, Slurry Top- 250'. CU/FT=313. Additives- 20bbls gelled water, 50sx of 11# scavenger cement. Intermediate csg/cmt: Drill 12 1/4" hole to 1,500'. RIH w/ 9 5/8", 36#, J-55, LT&C @ 0-1,500', Collapse SF 2.589744, Burst SF 7.04, Joint SF 8.614281, Body SF 7.04. Lead cmt w/ 475sx Class C+45 F20+.4pps PF45+.125 PF29, density-13.5, yld- 1.72, 9.102gals/sk, 100%excess, Slurry Top- Surface. Tail cmt w/ 200sx Class C+1%PF1. density- 14.8, yld- 1.34, 6.323gals/sk, 100%excess, Slurry Top-1,300'. CU/FT=470. Additives- 20bbls gelled water, 50sx of 11# scavenger cement. Production csg/cmt: Drill 8 3/4" hole to 8,842'. RIH w/ 7",26#, HCP-110 LT&C 0-2,000', Collapse SF 7.190612, Burst SF 3.316667, Joint SF 6.4825, Body SF 3.316667, 7", 26#, HCP-110, Buttress 2,000-3,100', Collapse SF 4.690954, Burst SF 3.316667, Joint SF 7.979177, Body SF 3.316667, 5 1/2", 17#, HCP-110, Buttress 3,100-8,842', Collapse SF 5.431205, Burst SF 3.546667, Joint SF 6.869938, Body SF

Continued on page 3 additional information      **See Conditions of Approval**      **Like Approval by NMOCD**

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) DEANA WEAVER / Ph: (575) 748-1288	Title Production Clerk
Signature (Electronic Submission)	Date 03/30/2026

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Petroleum Engineer	04/01/2026
----- Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title	Date
	Office RFO	

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

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Additional Remarks

3.546667. Stage 1 cmt w/ 150sx Light weight+2%P-202+1.3%P-112+5PPS P-305, density-11, yld-2.49, 14.71gals/sk, 50%excess, Slurry Top-1,600'. Tail cmt w/ 1,726sx Pro Eco Plus Class H-Buzzi+Pro-Eco POZ F OG+5%P-402+2% P201+0.2% P-12, density- 14.2, yld-1.26, 5.65gals/sk, 50% excess, Slurry Top- 3,100'. CU/FT= 1648. Additives- 20bbbs Gelled Water, 20bbbs Chemical Wash, 50sx of 11# scavenger cement. Contingency- 2 Stage DV tool @ 1,600'. Stage 2 Tail cmt w/ 200sx Class C-GCC+1% P-401, density-14.8, yld-1.34, 0% excess, Slurry Top- Surface. CU/FT=257.

### Location of Well

0. SHL: SESE / 707 FSL / 310 FEL / TWSP: 15S / RANGE: 28E / SECTION: 27 / LAT: 32.9818436 / LONG: -104.112207 ( TVD: 0 feet, MD: 0 feet )  
PPP: NWNW / 100 FNL / 330 FWL / TWSP: 15S / RANGE: 28E / SECTION: 35 / LAT: 32.9795974 / LONG: -104.1101525 ( TVD: 0 feet, MD: 0 feet )  
BHL: SWSW / 1 FSL / 330 FWL / TWSP: 15S / RANGE: 28E / SECTION: 35 / LAT: 32.9653787 / LONG: -104.1099462 ( TVD: 0 feet, MD: 0 feet )

CONFIDENTIAL

Attached to Form 5160-3  
**Mack Energy Corporation**  
**Medicine Hat State Com 3H NMNM-132939**  
**SHL : 707 FSL & 310 FEL, SESE, Sec. 27 T15S R28E**  
**BHL : 1 FSL & 330 FWL, SWSW, Sec. 35 T15S R28E**  
**Chaves County, NM**

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## DRILLING PROGRAM

### 1. Geologic Name of Surface Formation

Quaternary

### 2. Estimated Tops of Important Geologic Markers:

Top Salt	227'
Base Salt	450'
Yates	499'
Seven Rivers	730'
Queen	1,210'
Grayburg	1,617'
San Andres	1,940'

### 3. Estimated Depths of Anticipated Fresh Water, Oil and Gas:

Water Sand	150'	Fresh Water
Yates	499'	Oil/Gas
Seven Rivers	730'	Oil/Gas
Queen	1,210'	Oil/Gas
Grayburg	1,617'	Oil/Gas
San Andres	1,940'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 450' and circulating cement back to surface will protect the surface fresh water sand. Salt section and shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them by cementing 5 1/2" production casing, sufficient cement will be pumped to circulate back to surface.

### 4. Casing Program:

Hole Size	Interval	OD Casing	Wt, Grade, Jt, cond, collapse/burst/tension/joint
17 1/2"	0-450'	13 3/8"	48#, J-55, ST&C, New, 3.29416/4.652898/4.74/23.49763
12 1/4"	0-1500'	9 5/8"	36#, J-55, ST&C, New, 2.589744/7.04/7.04/8.614281/8.614281
8 3/4"	0-2000'	7"	26#, HCP-110,LT&C, New, 7.190612/3.316667/3.316667/6.4825
8 3/4"	2000-3100'	7"	26#, HCP-110, Buttress, New, 4.690954/3.316667/3.316667/7.979177
8 3/4"	3100-8842'	5 1/2"	17#, HCP-110, Buttress, New, .5431205/3.546667/3.546667/6.869938

***Variance request: A variance is requested to use a Multi Bowl System and Flex Hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test will be kept on the rig.***

***Perforations 3653 TD 3038 TVD 8700 TD TVD 3038***

**Mack Energy Corporation**  
**Medicine Hat State Com 3H NMNM-132939**  
**SHL : 707 FSL & 310 FEL, SESE, Sec. 27 T15S R28E**  
**BHL : 1 FSL & 330 FWL, SWSW, Sec. 35 T15S R28E**  
**Chaves County, NM**

**5. Cement Program:**

13 3/8" Surface Casing: Lead 150sx, Class C + 4%PF20+1% PF1+0.125#/sk PF29+.4% PF45, yld 2.31, wt 13.5 ppg, 9.166gals/sx, 100% excess, Slurry Top- Surface. Tail: 200sx, Class C+1% PF1, yld 1.32, wt 14.8 ppg, 6.307 gals/sx, excess 100%, Slurry Top- 250', CU/FT=313  
 Additives- 20bbbls Gelled Water, 50sx of 11# Scavenger Cement.

9 5/8" Intermediate Casing: Lead 475sx, Class C +4 PF20 + .4pps PF44 + .125 PF29, yld 1.72, wt 13.5 ppg, 9.102gals/sx, excess 100%, Slurry Top-Surface. Tail: 200sx, Class C+1% PF1, yld 1.34, wt 14.8, 6.323 gals/sx, excess 100%, Slurry Top-1300', CU/FT=470  
 Additives- 20bbbls Gelled Water, 50sx of 11# Scavenger Cement

7" & 5 1/2" Production Casing: Lead 150sx Light Weight +2% P-202+1.3% P-112+5PPS P-305, yld 2.49, wt 11 ppg, 14.71 gals/sx, excess 50%, Slurry Top-1,600'. Tail 1726sx, Pro-Eco Plus Class H- Buzzi + Pro-Eco POZ F OG+ 5% P-402+2% P201+0.2% P-12, yield 1.26, wt 14.2, 5.65 gals/sx, 50% excess, Slurry Top 3,100', CU/FT=1698  
 Additive- 20bbbls Gelled Water, 20bbbls Chemical Wash, 50sx of 11# Scavenger Cement

Contingency- 2 Stage DV Tool @ 1,600'. Stage 2 Tail Cement- 200sx Class C-GCC+1% P-401, yld 1.34, wt 14.8 ppg, 0% excess, Slurry Top- Surface. CU/FT=257

**6. Minimum Specifications for Pressure Control:**

The blowout preventer equipment (BOP) shown in Exhibit #10 will consist of a double ram-type (3000 psi WP) minimum preventer. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on bottom. The 11" BOP will be nipped up on the 8 5/8" surface casing and tested by a 3<sup>rd</sup> party to 2000 psi used continuously until TD is reached. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of intermediate casing. 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 (Exhibit #10) will include a Kelly cock and floor safety valve and choke lines and choke manifold (Exhibit #11) with a minimum 3000 psi WP rating

**7. Types and Characteristics of the Proposed Mud System:**

The well will be drilled to TD with a combination of fresh and cut brine mud system. The applicable depths and properties of this system are as follows:

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0-450'	Fresh Water	8.5	28	N.C.
450'-1,500'	Cut Brine	9.1	29	N.C.
1,500-TD	Cut Brine	9.1	29	N.C.

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

Attached to Form 5160-3  
**Mack Energy Corporation**  
**Medicine Hat State Com 3H NMNM-132939**  
**SHL : 707 FSL & 310 FEL, SESE, Sec. 27 T15S R28E**  
**BHL : 1 FSL & 330 FWL, SWSW, Sec. 35 T15S R28E**  
**Chaves County, NM**

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**8. Auxiliary Well Control and Monitoring Equipment:**

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

**9. Logging, Testing and Coring Program:**

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log from T.D. to 8 5/8 casing shoe.
- B. Drill Stem test is not anticipated.
- C. No conventional coring is anticipated.
- D. Further testing procedures will be determined at TD.

**10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:**

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is **1453 psig (0.052\*3038'TVD\*9.2)**. Low levels of Hydrogen sulfide have been monitors in producing wells in the area, so H2S may be present while drilling of the well; a plan is attached to the Drilling program. No major loss of circulation zones has been reported in offsetting wells.

**11. Anticipated Starting Date and Duration of Operations:**

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is **November 1, 2024**. Once commenced, the drilling operation should be finished in approximately 20 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

**Attachment to Exhibit #10**  
**NOTES REGARDING THE BLOWOUT PREVENTERS**  
**Medicine Hat State Com 3H**  
**Chaves County, New Mexico**

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
4. All fittings to be flanged.

**PECOS DISTRICT  
DRILLING OPERATIONS  
CONDITIONS OF APPROVAL**

<b>OPERATOR'S NAME:</b>	<b>Mack Energy Corporation</b>
<b>LEASE NO.:</b>	<b>NMNM-132939 – SHL only</b>
<b>WELL NAME &amp; NO.:</b>	<b>Medicine Hat State Com 3H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>0707' FSL &amp; 0310' FEL</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>0001' FSL &amp; 0330' FWL Sec. 35, T. 15 S., R 28 E.</b>
<b>LOCATION:</b>	<b>Section 27, T. 15 S., R 28 E., NMPM</b>
<b>COUNTY:</b>	<b>Chaves County, New Mexico</b>

The Gamma Ray and Neutron well logs must be run from total depth to surface and e-mailed to McKitric Wier at [mwier@blm.gov](mailto:mwier@blm.gov) or hard copy mailed to 2909 West Second Street Roswell, NM 88201 to his attention.

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 hours call (575) 627-0205.

**A. Hydrogen Sulfide**

1. **Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

## **B. CASING**

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

### **Wait on cement (WOC) for Water Basin:**

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least **8 hours**. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

### **Medium Cave/Karst**

**Possibility of water flows in the Rustler, Queen, Salado, and Artesia Group.**

**Possibility of lost circulation in the Rustler, Artesia Group, and San Andres.**

1. The 13-3/8 inch surface casing shall be set at approximately **180** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
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.

**Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.**

3. The minimum required fill of cement behind the **7 X 5-1/2** inch production casing is:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Contingency 2<sup>nd</sup> Stage DV tool:

**Operator has proposed DV tool at depth of 1600', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe.**

- a. Second stage above DV tool:
    - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

### C. PRESSURE CONTROL

1. 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.
2. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi (testing to 2,000 psi).**
  - a. **Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
  - b. **If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
  - c. **Manufacturer representative shall install the test plug for the initial BOP test.**
  - d. **Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.**
  - e. **If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.**
3. 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. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.**

- c. 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.
- d. The results of the test shall be reported to the appropriate BLM office.
- 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 if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

#### **D. DRILL STEM TEST**

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

#### **E. 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.

**JAM 04012026**

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 570122

**CONDITIONS**

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 570122
	Action Type: [C-103A] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	4/8/2026