| | UNITED STATES EPARTMENT OF THE I | NTERIOR NIM OU COMP | U ERVATIO | MB N | I APPROVED NO. 1004-0137 January 31, 2018 |
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| E | BUREAU OF LAND MANA | GEMENT ARTESIA D | h- | 5. Lease Serial No. NMNM121949 | January 51, 2018 |
| SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter and 2 7 2017 abandoned well. Use form 3160-3 (APD) for such proposals. | | | 2017 - | 6. If Indian, Allottee or Tribe Name | |
| SUBMIT IN TRIPLICATE - Other instructions on page 2 RECEIVED | | | | 7. If Unit or CA/Agr | eement, Name and/or |
| 1. Type of Well | | | | 8. Well Name and No PRINCE RUPER | |
| Oil Well Gas Well Other Arrow Contact: JERRY W SHERRELL E-Mail: jerrys@mec.com | | | | 9. API Well No. 30-005-64241-00-X1 | |
| 3a. Address P.O. BOX 960 | | 3b. Phone No. (include area code) Ph: 575-748-1288 | | 10. Field and Pool or Exploratory Area ROUND TANK-SAN ANDRES | |
| ARTESIA, NM 88211-0960 4. Location of Well <i>(Footage, Sec.,</i> | | | | 52770 11. County or Parish | |
| | 9 | | | , , | |
| Sec 17 T15S R29E SESW 33 | 30FSL 2160FEL | | | CHAVES COUNTY, NM | |
| 12. CHECK THE A | PPROPRIATE BOX(ES) | TO INDICATE NATURE O | F NOTICE, F | REPORT, OR OT | HER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | | | |
| Notice of Intent | | 🗖 Deepen | Production | on (Start/Resume) | U Water Shut- |
| | Alter Casing | Hydraulic Fracturing | Reclamat | ion | 🗋 Well Integrit |
| Subsequent Report | Casing Repair | □ New Construction | | | Other |
| Final Abandonment Notice | Change Plans | Plug and Abandon Plug Back | U Temporar | rily Abandon | |
| following completion of the involve testing has been completed. Final A determined that the site is ready for Mack Energy is requesting ap Drill 8.5 hole to 8229', run spl | ork will be performed or provide d operations. If the operation re bandonment Notices must be fil final inspection. oproval to change the proc lit string 5 1/2" HCP-110 1 | The Bond No. on file with BLM/BIA sults in a multiple completion or recc ed only after all requirements, includ duction casing string as follows 7# Buttress 8229-2700' and 7' | Required subs mpletion in a ne ing reclamation, 5: " HCP-110 26 | equent reports must be w interval, a Form 31 have been completed | e filed within 30 days 60-4 must be filed on |
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MM OIL CONSERVATION ARTESIA DISTRICT

FEB 2 7 2017

PECOS DISTRICT CONDITIONS OF APPROVAL

RECEIVED

| OPERATOR'S NAME: | Mack Energy Coporation |
|----------------------------|--|
| LEASE NO.: | NMNM-121949 (SHL) |
| | Prince Rupert Federal 3H |
| SURFACE HOLE FOOTAGE: | 0330' FSL & 2160' FEL |
| BOTTOM HOLE FOOTAGE | 0340' FSL & 2285' FEL Sec. 20, T. 15 S., R 29 E. |
| LOCATION: | Section 17, T. 15 S., R 29 E., NMPM |
| COUNTY: | Eddy County, New Mexico |

The original COAs still stand with the following drilling modifications:

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

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) 627-0205.

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts 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

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.

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

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. 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.

NOTE: Pre-ongard well #5 (30-005-00453) is in close proximity to the BHL and has a total depth of 2450'.

- 1. The 9-5/8 inch surface casing shall be set at approximately 205'-225' feet 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.

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

The pilot hole plugging procedure is approved as written. Note plug top on Subsequent Report sundry of drilling activities.

2. 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.

3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. 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.
- 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 022217