UNITED STATES DEPARTMENT OF THE INTERIOR

| BUREAU OF LAND MANAGEMENT |
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| DRY NOTICES AND REPORTS ON WELLS |
| o this form for proposale to drill or to re-enter an |

| OCD Artesla | FORM APPROVED OMB NO. 1004-0135 |
|-------------|------------------------------------|
| | Expires: July 31, 2010 |

| | Expires: July |
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| 5. | Lease Serial No. |
| | |

| 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. NMNM1003426. If Indian, Allottee or Tribe Name | | | |
|---|--|--|--|--|---|---|--|--|--|
| SUBMIT IN TRIPLICATE - Other instructions on reverse side. | | | | | | 7. If Unit or CA/Agreement, Name and/or No. | | | |
| 1. Type of Well | | | | | | 8. Well Name and No. AIRBUS 12 FEDERAL 3H | | | |
| 2. Name of Operator COG OPERATING LLC Contact: MELANIE WILSON E-Mail: mwilson@concho.com | | | | | | 9. API Well No. 30-015-42412-00-X1 | | | |
| 3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701 3b. Phone No: (include area code) Ph: 575-748-6952 | | | | | | 10. Field and Pool, or Exploratory GREENWOOD | | | |
| 4. Location of Well (Footage, Sec., T | , R., M., or Survey Description | 1) | | | | 11. County or Parish, and State | | | |
| Sec 12 T19S R31E SESW 19 32.681644 N Lat, 103.824548 | , | | | · | EDDY COUNTY, NM | | | | |
| 12. CHECK APPI | ROPRIATE BOX(ES) TO | O INDICAT | E NATUR) | E OF NO | OTICE, RE | EPORT, OR | OTHER | DATA | |
| TYPE OF SUBMISSION | | | TY | YPE OF . | ACTION | | | | |
| Notice of Intent | ☐ Acidize | ☐ De | epen | | ☐ Producti | on (Start/Resu | ıme) | ■ Water Shut-Off | |
| ■ Notice of Intent | ☐ Alter Casing | ☐ Fra | cture Treat | | ☐ Reclama | tion | | ■ Well Integrity | |
| ☐ Subsequent Report | Casing Repair | ☐ Ne | w Construct | ion | Recomp! | lete | | ⊠ Other | |
| ☐ Final Abandonment Notice | Change Plans | ☐ Plu | g and Aband | don | ☐ Tempora | rily Abandon | | Change to Original A PD | |
| | | | ug Back 🔲 Wa | | | isposal | | | |
| 13. Describe Proposed or Completed Ope If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi COG Operating LLC respectfu 1. Operator will run 13 3/8 sur our geologist shows the Rustle | Illy or recomplete horizontally, k will be performed or provide operations. If the operation readonment Notices shall be file in the interest of the state of the | give subsurface the Bond No. c sults in a multip ed only after all following cha | e locations and if le with BI le completion requirements anges to the hange from | d measure LM/BIA. To recom In including Origina In north to | d and true ver Required sub- pletion in a no g reclamation | rical depths of a sequent reports ew interval, a F , have been com | all pertiner shall be fil orm 3160- apleted, an | nt markers and zones. led within 30 days 4 shall be filed once d the operator has IL CONSERVATIO ARTESIA DISTRICT JUL 0 1 2015 | |
| 2. Operator will run 9 5/8 J-55 | 36/40 lb intermediate ca | sing to 4450 | ft with a D' | VT/ECP | at 2750 ft. | ТТАСЫ | | 'An | |
| 2. Operator will run 9 5/8 J-55 36/40 lb intermediate casing to 4450 ft with a DVT/ECP at 2750 ft. 3. Operator will cement the 9 5/8 casing with the following cement job: a. 1st stage i. Lead: 350 sx 35:64:6 C Blend (12.7 ppg - 2 cf/sk) ii. Tail: 250 sx Class C (14.8 ppg - 1.34 cf/sk) Accepted for record | | | | | | | | RECEIVED APPROVAL | |
| , | | ŰŽČ | NMOCI | | 30/15 | <u> </u> | | • | |
| 14. I hereby certify that the foregoing is Commi Name(Printed/Typed) TIM SMITH | Electronic Submission #3 For COG O itted to AFMSS for proces | PERATING L | C, sent to | the Carl | sbad 06/29/2015 (| • | E) | | |
| | | | | / | $\overline{\cap}$ | 10 | | | |
| Signature (Electronic St | ibmission). | | Date 06 | /25/201 | 5/PPI | 2//V/EJ/ | | <u> </u> | |
| | THIS SPACE FO | R FEDERA | L OR ST | ATE O | FICE US | | 7./ | | |
| Approved By | | | Title | | JUN | 9 2015 | | Date | |
| onditions of approval, if any, are attached ertify that the applicant holds legal or equi hich would entitle the applicant to conduc | table title to those rights in the toperations thereon. | subject lease | Office | | LM I | MA | ZA // // // ZENT | / | |
| itle 18 U.S.C. Section 1001 and Title 43 U States any false, fictitious or fraudulent st | I.S.C. Section 1212, make it a catements or representations as | crime for any pe to any matter w | erson knowing | gly and wi | Ilfully to mak | e to any departr | nem or ag | ency of the United | |

Additional data for EC transaction #306696 that would not fit on the form

32. Additional remarks, continued

b. 2nd stage i. Lead: 650 sx Class C + 4% Gel (13.5 ppg - 1.75 cf/sk) ii. Tail: 100 sx Class C (14.8 ppg - 1.34 cf/sk)

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: COG Operating LLC

LEASE NO.: | NMNM-100342

WELL NAME & NO.: Airbus 12 Federal 3H SURFACE HOLE FOOTAGE: 0190' FSL & 1980' FWL

BOTTOM HOLE FOOTAGE | 0330' FNL & 1980' FWL

LOCATION: Section 12, T. 19 S., R 31 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)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated prior to drilling out the surface shoe. 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.
- 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.

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.

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

Capitan Reef

Possibility of water and brine flows in the Artesia and Salado Groups.

Possibility of lost circulation in the Rustler, Artesia Group, Capitan Reef, and Delaware Sands.

- 1. The 13-3/8 inch surface casing shall be set at approximately 800 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet 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 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, which shall be set at approxaimtely 4450 feet, is:

Operator has proposed DV tool at depth of 4450'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

- a. First stage to DV tool:
- Ement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

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 5-1/2 inch production easing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
- 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. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 3000 (3M) psi.
- 4. 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).
 - a. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - b. 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.
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. 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.

e. 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 062915