

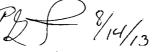
# UNITED STATES

OCD Hobbs

FORM APPROVED OMB NO. 1004-0135

|  | UREAU OF LAND MANAGE   |  | BBS OCD                                   |                                      | July 31, 2010           | 0             |  |  |
|--|--|--|---|--------------------------------------|-------------------------|---------------|--|--|
| SUNDRY   | NOTICES AND REPORT   | S ON WELLS   | BB3 OCD 3                                 | 5. Lease Serial No.<br>NMLC065710    |                         |               |  |  |
| Do not use th<br>abandoned we  | is form for proposals to dr<br>ll. Use form 3160-3 (APD)   | ill or to re-enter an<br>for such proposals. AU(                     | i 1.9 2013                                | 6. If Indian, Allottee of            | r Tribe Name            | e             |  |  |
| SUBMIT IN TRI  | PLICATE - Other instruction  |  | ECEIVED                                   | 7. If Unit or CA/Agree               | ement, Name             | and/or No.    |  |  |
| Type of Well   |  |  |   | B. Well Name and No.                 |                         |               |  |  |
| Ø Oil Well ☐ Gas Well ☐ Oth  | her /  |  |   | LUSK 28 WEST F                       | EDERAL C                | :OM 1H 🖊      |  |  |
| Name of Operator     OCCIDENTAL PERMIAN LTD  | Contact: JE<br>D E-Mail: JENNIFER_D  | NNIFER A DUARTE<br>UARTE@OXY.COM                                     | Ş   | 9. API Well No.<br>30-025-41257      |                         |               |  |  |
| 3a. Address<br>PO BOX 4294<br>HOUSTON, TX 77210  |  | b. Phone No. (include area code<br>Ph: 713-513-6640                  | ) 1                                       | 0. Field and Pool, or<br>LUSK BONESP | Exploratory<br>RING SOL | <br>JTН<br>/  |  |  |
| 4. Location of Well (Footage, Sec., T  | ., R., M., or Survey Description)  |  | 1   | 1. County or Parish,                 | and State               |               |  |  |
| Sec 28 T19S R32E SWSE 65   | 2FSL 2425FEL   |  |   | LEA COUNTY,                          | NM                      | •             |  |  |
|  |  |  |   | ,                                    |                         |               |  |  |
| 12. CHECK APPI   | ROPRIATE BOX(ES) TO I  | NDICATE NATURE OF I  | NOTICE, REP                               | ORT, OR OTHE                         | R DATA                  |               |  |  |
| TYPE OF SUBMISSION   | F ACTION   |  |   |                                      |                         |               |  |  |
| - Nutice of Intent   | ☐ Acidize  | □ Deepen   | ☐ Production                              | (Start/Resume)                       | ☐ Water                 | Shut-Off      |  |  |
| Notice of Intent ■   | ☐ Alter Casing   | ☐ Fracture Treat   | □ Reclamation                             | on                                   | ☐ Well I                | Integrity     |  |  |
| ☐ Subsequent Report  | ☐ Casing Repair  | ■ New Construction   | ☐ Recomple                                | te                                   | ☑ Other                 |               |  |  |
| ☐ Final Abandonment Notice ☐ Change Plans  |  | □ Plug and Abandon   | <u>-</u>                                  |                                      |                         | to Original A |  |  |
|  | ☐ Convert to Injection   | ☐ Plug Back  | ■ Water Dis                               | posal                                | PD                      |               |  |  |
| Attach the Bond under which the won following completion of the involved testing has been completed. Final Attach determined that the site is ready for following completes an approved drilling plan, as follows:   | d operations. If the operation results<br>bandonment Notices shall be filed c<br>inal inspection.)  approval for the Hole Size/C | s in a multiple completion or reconly after all requirements, includ | ompletion in a nev<br>ling reclamation, h | v interval, a Form 316               | 0-4 shall be f          | iled once     |  |  |
| 1. REVISED CASING PROGE  | RAM  |  |   |                                      |                         |               |  |  |
| Intermediate2 Casing ran in 1  | 0-5/8? hole filled with 8.6 pp   | g mud  | SEE                                       | : ATTACHE[                           | ) FOR                   |               |  |  |
| Hole Size (in) Interval (ft) OD (in) Wt (ppf) Grade Conn ID  |  |  | CON                                       | NDITIONS O                           | F APPI                  | ROVAL         |  |  |
| 14. I hereby certify that the foregoing is   | true and correct   |  |   |                                      |                         | <u> </u>      |  |  |
| 14. Photosy county and anotorogoning to  | Electronic Submission #215   | AL PERMIAN LTD. sent to the  | ne Hobbs                                  | •                                    |                         |               |  |  |
| Name(Printed/Typed) JENNIFEF   | R A DUARTE   | Title REGUL  | ATORY SPEC                                | IALIST                               |                         |               |  |  |
| (m)  |  | D  | 0.45                                      |                                      |                         | _             |  |  |
| Signature (Electronic S  |  | Date 08/05/2   |   | PPROVET                              |                         |               |  |  |
|  | THIS SPACE FOR   | FEDERAL OR STATE   | OFFICE USE                                | INUVEL                               |                         |               |  |  |
| Approved_By  | . <b></b> _  | Title  |   | IIG 1.5 2013                         | Date                    |               |  |  |
| Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conductive th | itable title to those rights in the sub  |  | RUREAU                                    | maju                                 | wen                     | <u></u>       |  |  |
| Title 18 U.S.C. Section 1001 and Title 43  | U.S.C. Section 1212, make it a crim  | ne for any person knowingly and                                      | Willfull VICARIA                          | Schart delearment for                | MENY of the             | United        |  |  |

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



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 States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

AUG 2.0 2013

GARE BRAS OF OFFICE OF THE United

### Additional data for EC transaction #215810 that would not fit on the form

#### 32. Additional remarks, continued

(in) Condition Burst (psi) Collapse (psi) Burst SF Coll SF Ten SF 10.625 4300 8.625 32 J55 LTC 7.921\* New 3928 2533 1.21 1.26 1.90

\*SPECIAL DRIFT TO 7.875?

2. PRODUCTION HOLE SIZE

Production Casing ran in 7-7/8? hole.

#### 3. REVISED CEMENT PROGRAM:

Intermediate2 Interval Interval Amount sx Ft of Fill Type Gal/Sk PPG Ft3/sk 24 Hr Comp Lead: (150% Excess) 680 3800 Light Premium Plus Cement, with 5% Salt, 5 lb/sk Kol-Seal, & 0.125 lb/sk Poly-E-Flake 9.88 12.9 1.91 660 psi Tail: 3800? ? 4300? (150% Excess) 200 500 Premium Plus cement with 3 lb/sk Kol-Seal & 0.5% Welllife 734 6.19 14.8 1.35 1586 psi CONTINGENCY DV TOOL WITH EXTERNAL CASING PACKER SET AT 3000?. If no cement to surface during primary cementing operation, DV cancellation cone will be run and 2nd stage cancelled. Contingency recipe for 2nd stage as follows: Lead: 0? ? 2500? (10% Excess) 350 2500 Light Premium Plus Cement with 3lbs/sk Salt 11.39 12.4 2.05 450 psi (500psi in 26 hrs) Tail: 2500? ? 3000? (200% Excess) 120 500 Premium Plus cement with 2% Calcium Chloride 6.39 14.8 1.35 1746 psi Production Interval

Production Interval
Interval Amount sx Ft of Fill Type Gal/Sk PPG Ft3/sk 24 Hr Comp
Lead:
0? ? 8700?
(100% Excess) 800 8700 TUNED LIGHT (TM) SYSTEM
3 lbm/sk Kol-Seal, 0.125 lbm/sk Poly-E-Flake, 0.25 lbm/sk HR-800 14.05 10.2 2.95 900
Tail:
8700? ? 13363?
(30% Excess) 630 4663 Super H Cement, 0.5 % Halad(R)-344, 0.4 % CFR-3, 3 lbm/sk Salt, 0.3 % HR-601, 0.125 lbm/sk Poly-E-Flake, 5 lbm/sk Kol-Seal 8.33 13.2 1.68 1527
CONTINGENCY DV TOOL SET AT 4350?. If no cement to surface during primary cementing operation, DV cancellation cone will be run and 2nd stage cancelled. Contingency recipe for 2nd stage as follows: Stage 2 Lead:
0? ? 3850?
(10% Excess) 370 3850 Halliburton Light Premium Plus cement with 3 lbm/sk Salt 11.39 12.4 2.05 450
(500 psi in 26 hrs)
Stage 2 Tail:
3850? ? 4350?
(50% Excess) 100 500 94 lbm/sk Premium Plus Cement 6.34 14.8 1.33 1849

# OCCIDENTAL PERMIAN LIMITED LUSK 28 WEST FED COM #1H SUNDRY NOTICE

Oxy, respectfully requests an approval for the Hole Size/Casing/Cementing Design change in the approved drilling plan, as follows:

#### 1. REVISED CASING PROGRAM

Intermediate2 Casing ran in 10-5/8" hole filled with 8.6 ppg mud

| 1 | Hole Size | Interval | OD    | Wt    | Grada | Conn | ID     | Condition | Burst | Collapse | Burst | Coll | Ten  |
|---|-----------|----------|-------|-------|-------|------|--------|-----------|-------|----------|-------|------|------|
| I | (in)      | (ft)     | (in)  | (ppf) | Grade | Conn | (in)   | Condition | (psi) | (psi)    | SF    | SF   | SF   |
| ı | 10.625    | 4300     | 8.625 | 32    | J55   | LTC  | 7.921* | New       | 3928  | 2533     | 1.21  | 1.26 | 1.90 |

<sup>\*</sup>SPECIAL DRIFT TO 7.875"

# **Casing Design Assumptions:**

#### **Burst Loads**

CSG Test (Intermediate2)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the section TD to previous CSG shoe and MW of the drilling fluid that was in the hole when the CSG was run to surface

#### Gas Kick (Intermediate2)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas
  gradient to surface while drilling the next hole section (e.g. Gas Kick while drilling the production hole
  section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling fluid that was in the hole when the CSG was run to surface

### Collapse Loads

Full Evacuation (Intermediate2)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

#### Cementing (Intermediate2)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

#### **Tension Loads**

Running CSG (Intermediate2)

Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever
is less

#### Green Cement (Intermediate2)

• Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

# PRODUCTION HOLE SIZE

Production Casing ran in 7-7/8" hole.

# REVISED CEMENT PROGRAM:

| Intermediate2 Interval | Interm | ediate2 | Interval |
|------------------------|--------|---------|----------|
|------------------------|--------|---------|----------|

| Interval  | Amount<br>sx | Ft of<br>Fill | Туре  | Gal/Sk | PPG  | Ft³/sk | 24 Hr<br>Comp |  |
|---|--------------|---------------|---|--------|------|--------|---------------|--|
| Lead:<br>0' - 3800'<br>(150%<br>Excess)   | 680          | 3800          | Light Premium Plus Cement, with 5% Salt, 5 lb/sk Kol-Seal, & 0.125 lb/sk Poly-E-Flake | 9.88   | 12.9 | 1.91   | 660 psi       |  |
| Tail:<br>3800' – 4300'<br>(150%<br>Excess)  | 200          | 500           | Premium Plus cement with 3 lb/sk<br>Kol-Seal & 0.5% Welllife 734                      | 6.19   | 14.8 | 1.35   | 1586 psi      |  |
| CONTINGENCY DV TOOL WITH EXTERNAL CASING PACKER SET AT 3000'. If no cement to surface during primary cementing operation, DV cancellation cone will be run and 2nd stage cancelled. |              |               |   |        |      |        |               |  |

| Contingency                                | ecipe ioi z | inu stay | e as lulluws.                                   |       |      |      |                                  |
|--|-------------|----------|---|-------|------|------|----------------------------------|
| Lead:<br>0' - 2500'<br>(10%<br>Excess)     | 350         | 2500     | Light Premium Plus Cement with 3lbs/sk Salt     | 11.39 | 12.4 | 2.05 | 450 psi<br>(500psi<br>in 26 hrs) |
| Tail:<br>2500' - 3000'<br>(200%<br>Excess) | 120         | 500      | Premium Plus cement with 2%<br>Calcium Chloride | 6.39  | 14.8 | 1.35 | 1746 psi                         |

# **Production Interval**

| Interval   | Amount sx   | Ft of<br>Fill | Туре   | Gal/Sk     | PPG     | Ft³/sk     | 24 Hr<br>Comp |  |  |
|--|-------------|---------------|--|------------|---------|------------|---------------|--|--|
| Lead:<br>0' - 8700'<br>(100%<br>Excess)  | 800         | 8700          | TUNED LIGHT (TM) SYSTEM<br>3 lbm/sk Kol-Seal, 0.125 lbm/sk<br>Poly-E-Flake, 0.25 lbm/sk HR-800                             | 14.05      | 10.2    | 2.95       | 900           |  |  |
| Tail:<br>8700' –<br>13363'<br>(30%<br>Excess)  | 630         | 4663          | Super H Cement, 0.5 % Halad(R)-344, 0.4 % CFR-3, 3 lbm/sk Salt, 0.3 % HR-601, 0.125 lbm/sk Poly-E-Flake, 5 lbm/sk Kol-Seal | 8.33       | 13.2    | 1.68       | 1527          |  |  |
| CONTINGENCY DV TOOL SET AT 4350'. If no cement to surface during primary cementing operation, DV cancellation cone will be run and 2nd stage cancelled. Contingency recipe for 2nd stage as follows: |             |               |  |            |         |            |               |  |  |
| Cancellation c   | one will be | run and       | a 2nd stage cancelled. Contingency re  | cipe for 2 | nd stag | e as folic | ws:           |  |  |

| Lead:<br>0' - 3850'<br>(10%<br>Excess)            | 370 | 3850 | Halliburton Light Premium Plus<br>cement with 3 lbm/sk Salt | 11.39 | 12.4 | 2.05 | 450<br>(500 psi<br>in 26 hrs) |
|---|-----|------|---|-------|------|------|-------------------------------|
| Stage 2 Tail:<br>3850' - 4350'<br>(50%<br>Excess) | 100 | 500  | 94 lbm/sk Premium Plus Cement                               | 6.34  | 14.8 | 1.33 | 1849                          |



# \*Description of Cement Additives:

Bentonite: Light Weight Additive Calcium Chloride: Accelerator

CFR-3: Dispersant

Halad-344: Low Fluid Loss Control

HR-601: Retarder HR-800: Retarder

Kol-Seal: Lost Circulation Additive Poly-E-Flake: Lost Circulation Additive Welllife 734: Cement Enhancer

# AUG 1.9 2013

# PECOS DISTRICT CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME: Occidental Permian Limited Partnership

LEASE NO.: | NM0175774

WELL NAME & NO.: 1H Lusk 28 West Federal Com

SURFACE HOLE FOOTAGE: 652' FSL & 2425' FEL BOTTOM HOLE FOOTAGE 330' FNL & 2284' FEL

LOCATION: | Section 28, T. 19 S., R 32 E., NMPM

COUNTY: Lea County, New Mexico

API: | 30-025-41257

# The original COAs still stand with the following drilling modifications:

# **Communitization Agreement**

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. If the Communitization Agreement number is known, it shall also be on the sign. If not, it shall be placed on the sign when the sign is replaced.

# 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)

# **\( \)** Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** 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.
- 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. 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.).

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

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. 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.

Secretary's Potash Possible lost circulation in the Capitan Reef and Artesia group. Possible water and brine flows in the Artesia and Salado groups.

- 1. The 16 inch surface casing shall be set at approximately 1000 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 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 11-3/4 inch 1<sup>st</sup> intermediate casing is: (Set casing below the Yates sand at approximately 2950')
  - □ 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 and potash.

Formation below the 11-3/4" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

- 3. The minimum required fill of cement behind the 8-5/8 inch 2<sup>nd</sup> intermediate casing is: (Set casing in the base of the reef at approximately 4300')
  - a. First stage:
    - □ Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

Operator has proposed a contingency DV tool at 3000'. If operator does not lose circulation while pumping the first stage, operator is approved to run the DV tool cancellation plug and cancel the second stage of the proposed cement plan. If cement does not circulate, operator will proceed with the second stage.

- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

Formation below the 8-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - a. First stage:
    - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Operator has proposed a contingency DV tool at 4350'. If operator does not lose circulation while pumping the first stage, operator is approved to run the DV tool cancellation plug and cancel the second stage of the proposed cement plan. If cement does not circulate, operator will proceed with the second stage.

- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 5. 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. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. A variance is granted for the use of a diverter on the 16" surface casing.
- 4. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 1<sup>st</sup> intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. 5M 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.
  - 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 9-5/8" casing integrity tests 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.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. 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.
  - 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.
- 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.

### 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 081513