Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

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

Artesia

| | | #. PH 40.1 |
|----|------|------------------|
| ia | | 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. | |

| | s form for proposals to dri il. Use form 3160-3 (APD) f | | 6. If Indian, Allottee of | or Tribe Name | | |
|--|--|---|---------------------------------------|--|--|--|
| SUBMIT IN 1 | TRIPLICATE - Other instruc | tions on page 2 | 7. If Unit or CA/Agre | ement, Name and/or No. | | |
| 1. Type of Well | 8. Well Name and No. BIG EDDY UNIT | 8. Well Name and No. BIG EDDY UNIT DI4B 274H | | | | |
| Oil Well ☐ Gas Well ☐ Oth Name of Operator | 9. API Well No. | | | | | |
| XTO PERMIAN OPERATING | | | 30-015-43647-0 | | | |
| 3a. Address 6401 HOLIDAY HILL ROAD B MIDLAND, TX 79707 | | o. Phone No. (include area code) h: 432-620-4374 | 10. Field and Pool or WILLIAMS SIN | Exploratory Area K | | |
| 4. Location of Well (Footage, Sec., T | ., R., M., or Survey Description) | | 11. County or Parish, | State | | |
| Sec 5 T20S R31E SWSE 720 | FSL 2065FEL | | EDDY COUNT | EDDY COUNTY, NM | | |
| | | | | | | |
| 12. CHECK THE AI | PPROPRIATE BOX(ES) TO | INDICATE NATURE O | F NOTICE, REPORT, OR OTI | HER DATA | | |
| TYPE OF SUBMISSION | | TYPE OF | ACTION | | | |
| Notice of Intent | ☐ Acidize | □ Deepen | ☐ Production (Start/Resume) | ■ Water Shut-Off | | |
| _ | ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ■ Well Integrity | | |
| ☐ Subsequent Report | □ Casing Repair | ☐ New Construction | ☐ Recomplete | | | |
| ☐ Final Abandonment Notice | ☐ Change Plans | □ Plug and Abandon | ☐ Temporarily Abandon | PD PD | | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | | | |
| testing has been completed. Final Al determined that the site is ready for f XTO Permian Operating, LLC Collars will provide enough states on 2M Annular & Casing less. | pandonment Notices must be filed of inal inspection. requests requests to not utilized of the inal inspection. requests requests to not utilized of the inal inspection. will be limited to 70% burst of the inspection of the in | ize centralizers in the later of the casing or 1500 psi, we st of a 20" minimum 2M Hy | | RECEIVED APR 2 5 2019 CT II-ARTESIA O.C.D. | | |
| 14: I hereby certify that the foregoing is Con Name (Printed/Typed) KELLY K | Electronic Submission #461 For XTO PERMAN minited to AFMSS for process | OPERATING LLC, sent to t ing by PRISCILLA PEREZ o | he Carlsbad | | | |
| Signature (Electronic | Submissign) | Date 04/11/2 | 019 APPROVED | | | |
| | THIS SPACE FOR | FEDERAL OR STATE | OFFICE USE APR 1-8-2043 | | | |
| Approved By Conditions of approval, if any are attached certify that the applicant holds logal or en which would entitle the applicant to condition. Title 18 U.S.C. Section/1001/and Title 43 | uct operations thereon. | bject lease Office | REAU OF LAND MANAGEME | | | |
| States any false, fictitious of fraudulent | statements or representations as to | any matter within its jurisdiction. | to make to any department o | . apency of the office | | |

DRILLING PLAN: BLM COMPLIANCE (Supplement to BLM 3160-3)

XTO Energy Inc.
Big Eddy Unit DI 4B 274H
Projected TD: 15987' MD / 9106' TVD
SHL: 720' FSL & 2065' FEL , Section 5, T20S, R31E
BHL: 660' FSL & 200' FEL , Section 4, T20S, R31E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

| Formation | Well Depth (TVD) | Water/Oil/Gas |
|--------------------|------------------|---------------|
| Rustler | 564' | Water |
| Top of Salt | 810' | Water |
| Base of Salt | 2306' | Water |
| Capitan | 2912' | Water |
| Delaware | 4225' | Water |
| . Bone Spring | . 6972' | Water/Oil/Gas |
| 1st Bone Spring Ss | 8197' | Water/Oil/Gas |
| 2nd Bone Spring Ss | 8826' | Water/Oil/Gas |
| Target/Land Curve | 9106' | Water/Oil/Gas |
| | | |

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 16 inch casing @ 780' (30' above the salt) and circulating cement back to surface. The salt will be isolated by setting 11-3/4 inch casing at 2330' and circulating cement to surface. 8-5/8 inch intermediate casing will be set at 4325'. A 7-7/8 inch curve and lateral hole will be drilled to TD, where 5-1/2 inch casing will be set and cemented back up to the 8-5/8 inch casing shoe.

3. Casing Design

| Hole Size | Depth | OD Csg | Weight | Collar | Grade | New/Used | SF Burst | SF Collapse | SF Tension |
|-----------|-------------|---------|--------|--------|--------------|----------|-------------|-------------|------------|
| 20" | 0' - 780' | 16" | 75 | STC | J -55 | New | 3.64 | 3.91 | 12.14 |
| . 14-3/4" | 0' – 2330' | 11-3/4" | 42 | STC | H40 | New | 1.64 | 1.46 | 3,14 |
| 10-5/8" | 0' – 4325' | 8-5/8" | 32 | STC | J-55 | New | 1.82 | 2:06 | 2.69 |
| 7-7/8" | 0' - 15987' | 5-1/2" | · 20 | LTC | P-110 | New | 1.33 | 2.66 | 2.34 |

- XTO requests to not utilize centralizers in the curve and lateral.
- 16" Collapse analyzed using 75% evacuation. Casing to be filled while running.
- 11-3/4" & 8-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on 2M Annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichver is less

WELLHEAD:

Temporary Wellhead

- 16" SOW bottom x 16-3/4" 3M top flange.

 Permanent Wellhead GE RSH Multibowl System
- A. Starting Head: 13-5/8" 5M top flange x 11-3/4" SOW bottom
- B. Tubing Head: 13-5/8" 5M bottom flange x 7" 10M top flange
 - Wellhead will be installed by manufacturer's representatives.
 - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - Operator will test the 8-5/8" casing per BLM Onshore Order 2
 - Wellhead manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 16", 75 New J-55, STC casing to be set at +/- 780'

Lead: 930 sxs Class C + Salt (mixed at 12.8 ppg, 1.88 ft3/sx, 11.45 gal/sx water)

Tail: 190 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water) Compressives:

12-hr =

1000 psi

24 hr = 2000 psi

1st Intermediate Casino: 11-3/4", 42 New H40, STC casing to be set at +/- 2330'

Lead: 930 sxs Class C + Poz + Fluid Loss FL-25 + Retarder R-3 + Salt + Bentonite (mixed at 12.8 ppg, 1.88 ft3/sx, 9.93 gal/sx water)

Tail: 190 sxs Class C + Retarder R-3 (mixed at 14.8 ppg, 1.33 ft3/sx, 6.30 gal/sx water)

Compressives:

12-hr =

· 1000 psi

24 hr = 2000 psi

2nd Intermediate Casing: 8-5/8", 32 New J-55, STC casing to be set at +/- 4325' ECP/DV Tool to be set at 2430'

1st Stage

Lead 1: 510 sxs Class C + Glass Beads + integraSeal + Bonding Agent BA-90 + Foam Preventer FP-6L + Sodium Metasilicate A-2 + Anti Settling ASA-301 + Retarder R-21 + Extender LW-5E (mixed at 9.5 ppg, 3.8 ft3/sx, 18.7 gal/sx water)

Lead 2: 210 sxs Class C + Poz + IntegraSeal Cello + IntegraSeal Kol + Salt + Sodium Metasilicate A-2 + Retarder R-21 + Fluid Loss FL-52 + Bentonite (mixed at 11.5 ppg, 2.68 ft3/sx, 15.46 gal/sx water)

Tail: 150 sxs Class C + Foam Preventer FP-6L + Retarder R-21 + Fluid Loss FL-52 (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Compressives:

1000 psi

24 hr = 2000 psi

2nd Stage

Lead: 430 sxs Class C + Poz + IntegraSeal Cello + IntegraSeal Kol + Salt + Retarder R-3 + Sodium Metasilicate A-2 + Fluid Loss FL-52 + Bentonite (mixed at 12.8 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 150 sxs Class C + Fluid Loss FL-52 (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Compressives:

12-hr =

1000 psi

24 hr = 2000 psi

Production Casing: 5-1/2", 20 New P-110, LTC casing to be set at +/- 15987'

Lead 1: 10 sxs Class C.+ Glass Beads + IntegraSeal Kol + Bonding Agent BA-90 + Foam Preventer FP-6L + Sodium Metasilicate A-2 + Anti Settling ASA Lead 2: 340 sxs Class C + Poz + IntegraSeal Cello + IntegraSeal Kol + Foam Preventer FP-6L + Salt + Sodium Metasilicate A-2 + Bentonite (mixed at 11.5 ppg, 2.72 ft3/sx, 15.9 gal/sx water)

Tail: 1110 sxs Class C + IntegraSeal Kol + Foam Preventer FP-6L + Salt + Fluid Loss FL-52 + Dispersant CS-32 + Retarder R-21 + Bonding Agent BA-90 (mixed at 13.2 ppg, 1.61 ft3/sx, 9.36 gal/sx water)

Compressives:

12-hr =

24 hr = 1800 psi

5. Pressure Control Equipment

The blow out preventer equipment (BOP) on surface casing/temp. wellhead will consist of a 20" minimum 2M Hydril. MASP should not exceed 723 psi.

Once the permanent WH is installed on the 11-3/4" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8"" minimum 3M 2-Ram BOP. MASP should not exceed 2164 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13-5/8" 3M bradenhead and flange, the BOP test will be limited to 3000 psi. Since a multibowl system will be used, subsequent BOP pressure tests will be performed as necessary based on required testing schedule (i.e., at least every 30 days). All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each

A variance is requested to allow use of a 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 chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

6. Proposed Mud Circulation System

| INTERVAL | Hole Size | Mud Type | MW (ppg) | Viscosity (sec/qt) | Fluid Loss (cc) |
|-----------------|-----------|--------------------------------|-------------|-----------------------|--------------------|
| 0' - 780' | 20" | FW/Native | 8.3-9.5 | 35-50 | NC |
| 780' - 2330' | 14 3/4" | Brine | 9.5-10.2 | 30-35 | NC |
| 2330' to 4325' | 10-5/8" | ĖW | 8.3-9.5 | 30-32 | NC |
| 4325' to 15987' | 7-7/8" | FW / Cut Brine / Polymer | 8.6-9.4 | 29-32 | NC - 20 |

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 16" surface casing with brine solution. A 9.5ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

For Production hole, XTO requests the option of using OBM if hole conditions dictate OBM properties: 8.6-9.4#, 28-45 Viscosity, and API fluid loss <22

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 11-3/4" casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below 1st intermediate casing.

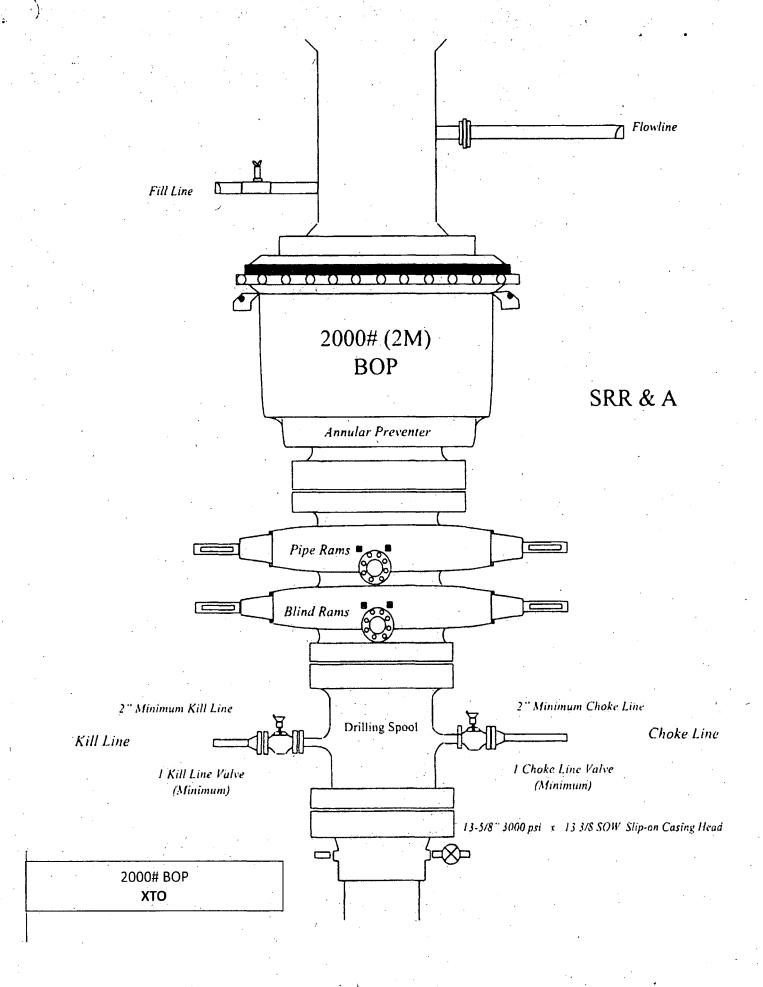
Open hole logging will include quad combo.

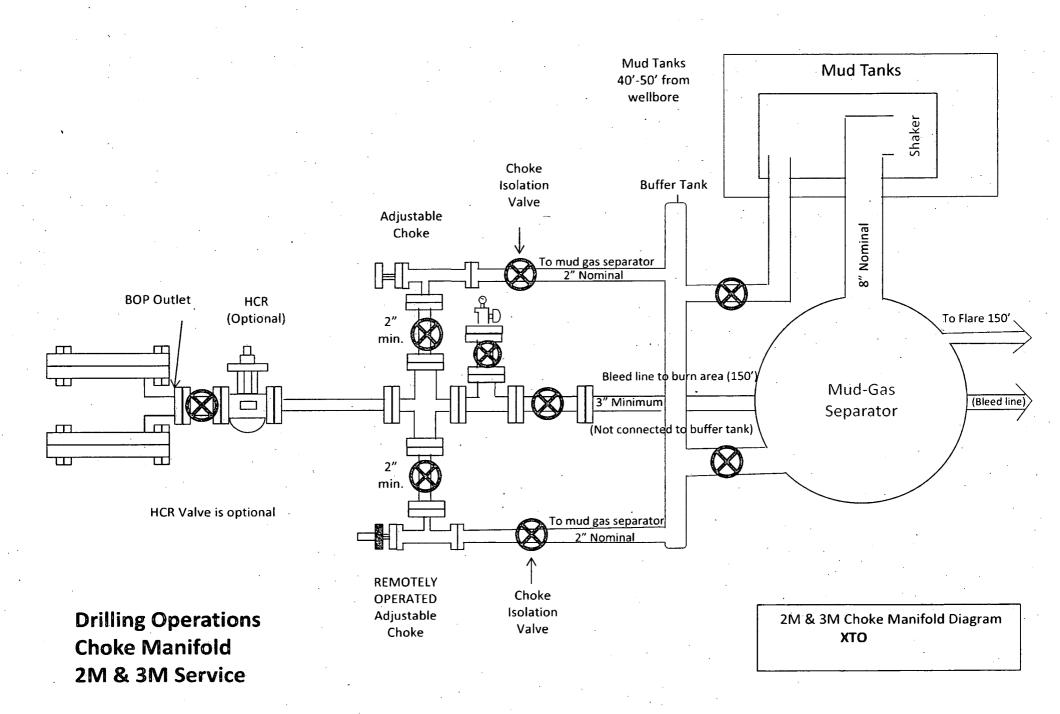
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 135 to 155 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 4167 psi.

10. Anticipated Starting Date and Duration of Operations

Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 40 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.





PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | XTO Permian Operating, LLC

LEASE NO.: NMNM-04557

WELL NAME & NO.: | Big Eddy Unit DI4B 274H SURFACE HOLE FOOTAGE: | 0720' FSL & 2065' FEL

BOTTOM HOLE FOOTAGE | 0660' FSL & 0220' FEL Sec. 04, T. 20 S., R 31 E.

LOCATION: | Section 05, T. 20 S., R 31 E., NMPM

COUNTY: Eddy County, New Mexico

The original COAs still stand with the following drilling modifications:

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. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S 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.

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

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.

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

Secretary's Potash

Capitan Reef

Possibility of water flows in the Artesia Group, Salado, and Capitan Reef. Possibility of lost circulation in the Artesia Group, Rustler, Capitan Reef, and Delaware.

- 1. The 16 inch surface casing shall be set at approximately 780 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.

Special Capitan Reef requirements:

If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

11-3/4 1st Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

- 2. The minimum required fill of cement behind the 11-3/4 inch 1st intermediate casing, which shall be set at approximately 2330 feet (Seven Rivers formation), is:
 - 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 potash.
- 3. The minimum required fill of cement behind the 8-5/8 inch 2nd intermediate casing is:

Operator has proposed DV tool at depth of 2430', 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. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool:
- Cement 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 and potash.

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

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - □ Cement to surface. If cement does not circulate, contact the appropriate BLM office. Excess calculates to negative 2% Additional cement will be required.
- 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 53.
- 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. These documents shall be posted in the company man's trailer and on the rig floor. 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. 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.
- 4. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 11-3/4 inch casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 11-3/4 inch casing shoe shall be 3000 (3M) 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 8-5/8 inch 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.
- 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. 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 041819