

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Report

Well Name: ROBIN FED Well Location: T20S / R34E / SEC 20 / County or Parish/State:

SWSE /

Well Number: 133H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM13276 Unit or CA Name: Unit or CA Number:

US Well Number: 3002552586 **Well Status:** Approved Application for **Operator:** COLGATE

Permit to Drill OPERATING LLC

Notice of Intent

Sundry ID: 2776498

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/26/2024 Time Sundry Submitted: 07:45

Date proposed operation will begin: 03/08/2024

Procedure Description: 30-025-52586 Colgate respectfully request to change our drilling plan from 3 string to 4 string as it states in our COAs. Please see revised drilling plan, batch drilling/OLC procedure, BOPs, Choke diagrams and variances attached. Directional survey will remain the same.

NOI Attachments

Procedure Description

Robin_Fed_133H_drilling_packet_4_string_20240223100114.pdf

Page 1 of 2

Well Name: ROBIN FED Well Location: T20S / R34E / SEC 20 / County or Parish/State: Page 2 of

SWSE /

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Permit to Drill

OPERATING LLC

Conditions of Approval

Additional

SEC20_T20SR34E_ROBIN_FED_AND_FED_COM__Lea_NMNM13276_COLGATE_RESOURCES_11_28_2023_JS_20240318153250.pdf

ROBIN_FED_133H_COAs_20240318153250.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KANICIA SCHLICHTING Signed on: MAR 18, 2024 09:43 AM

Name: COLGATE OPERATING LLC

Title: Regulatory Specialist

Street Address: 300 N MARIENFELD ST SUITE 1000

City: MIDLAND State: TX

Phone: (432) 232-2875

Email address: KANICIA.SCHLICHTING@PERMIANRES.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 **BLM POC Email Address:** cwalls@blm.gov

Disposition: Approved **Disposition Date:** 03/18/2024

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

| FORM AI | PPROVED |
|---------------|--------------|
| OMB No. | 1004-0137 |
| Expires: Octo | ober 31, 202 |

| BUREAU OF LAND MANAGEMENT | 5. Lease Seri |
|---------------------------|---------------|
| | |

| SUNDRY NOTICES AND REPORTS OF Do not use this form for proposals to drill of abandoned well. Use Form 3160-3 (APD) for | r to re-e | nter an | - | 6. If Indian, Allottee or | Tribe | Name | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------|--|--|
| SUBMIT IN TRIPLICATE - Other instructions on | page 2 | | | 7. If Unit of CA/Agreer | nent, | Name and/or No. | | |
| 1. Type of Well | | | | | | | | |
| Oil Well Gas Well Other | | | | 8. Well Name and No. | | | | |
| 2. Name of Operator | | | | 9. API Well No. | | | | |
| 3a. Address 3b. Phone | No. (includ | e area code) | | 10. Field and Pool or Exploratory Area | | | | |
| 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) | | | | 11. Country or Parish, S | State | | | |
| 12. CHECK THE APPROPRIATE BOX(ES) TO | INDICATI | E NATURE OF | NOTIO | CE, REPORT OR OTH | ER D | ATA | | |
| TYPE OF SUBMISSION | | ТҮРЕ О | F ACT | TION | | | | |
| Acidize I | Deepen | | Produ | action (Start/Resume) | | Water Shut-Off | | |
| Notice of Intent \square | Hydraulic Fi | racturing | : | ımation | | Well Integrity | | |
| Coging Pensir | New Constri | · = | | mplete | | Other | | |
| Subsequent Report | Plug and Ab | | : | orarily Abandon | | | | |
| | Plug Back | | | r Disposal | | | | |
| 3. Describe Proposed or Completed Operation: Clearly state all pertinent deta the proposal is to deepen directionally or recomplete horizontally, give substitute Bond under which the work will be perfonned or provide the Bond No. completion of the involved operations. If the operation results in a multiple completed. Final Abandonment Notices must be filed only after all requirer is ready for final inspection.) 4. I hereby certify that the foregoing is true and correct. Name (Printed/Typed.) | surface loca on file with completion nents, inclu- | tions and measu BLM/BIA. Rec or recompletion | red and quired a n in a r | d true vertical depths of subsequent reports must new interval, a Form 310 | f all pe t be fil 60-4 n | ertinent markers and zones. Attach led within 30 days following nust be filed once testing has been | | |
| | Title | | | | | | | |
| Signature | Date | | | | | | | |
| THE SPACE FOR F | EDERAL | OR STATE | OF | ICE USE | | | | |
| Approved by | | | | | | | | |
| | | T:41 - | | 7. | -4- | | | |
| | + | Title | | D | ate | | | |
| Conditions of approval, if any, are attached. Approval of this notice does not watertify that the applicant holds legal or equitable title to those rights in the subjective would entitle the applicant to conduct operations thereon. | | Office | | | | | | |
| Fitle 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime finy false, fictitious or fraudulent statements or representations as to any matter | | | d willf | fully to make to any dep | artme | ent or agency of the United States | | |

(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, 3162.3-4.

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SWSE / 10 FSL / 1355 FEL / TWSP: 20S / RANGE: 34E / SECTION: 20 / LAT: 32.5513475 / LONG: -103.5782474 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 100 FSL / 2310 FEL / TWSP: 20S / RANGE: 34E / SECTION: 20 / LAT: 32.5515423 / LONG: -103.5813468 (TVD: 10931 feet, MD: 11028 feet) BHL: NWNE / 10 FNL / 2310 FEL / TWSP: 20S / RANGE: 34E / SECTION: 17 / LAT: 32.5802597 / LONG: -103.5808766 (TVD: 11053 feet, MD: 21415 feet)

SEC20-T20SR34E_ROBIN FED AND FED COM _Lea_NMNM13276_COLGATE RESOURCES_11-28-2023_JS

ROBIN FED AND FED COM

| 13 3/8 | Sl | ırface csg in a | 17 1/2 | inch hole. | <u>Design Factors</u> | | | | | Surface | | |
|--------------|----------------|----------------------------------|----------|------------|-----------------------|--------------|---------|--------|-----|---------|------|-----------|
| Segment | #/ft | Grade | | Coupling | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 54.50 | | j 55 | btc | 10.09 | 1.48 | 1.54 | 1,552 | 4 | 2.67 | 2.66 | 84,584 |
| "B" | | | | btc | | | | 0 | | | | 0 |
| 1 | w/8.4 | #/g mud, 30min Sfc Csg Test psig | : 1,234 | Tail Cmt | does not | circ to sfc. | Totals: | 1,552 | | | | 84,584 |
| Comparison o | of Proposed to | Minimum Required Cement | /olumes_ | | | | | | | | | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg |
| 17 1/2 | 0.6946 | 1210 | 1621 | 1078 | 50 | 9.50 | 1022 | 2M | | | | 1.56 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| J | | | | | | | | | | | | |

| 10 3/4 | ca | sing inside the | 13 3/8 | Design Factors | | | | | | Int 1 | | |
|-------------------|---------------|---------------------------------|--------------------|-------------------------|----------|------------|-------------|--------|-----|-------|------|-----------|
| Segment | #/ft | Grade | | Coupling | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 45.50 | | j 55 | BTC | 4.61 | 1.18 | 1.31 | 3,412 | 2 | 2.37 | 2.05 | 155,246 |
| "B" | | | | | | | | 0 | | | | 0 |
| | w/8.4 | 4#/g mud, 30min Sfc Csg Test ps | ig: 1,017 | | | | Totals: | 3,412 | | | | 155,246 |
| | | The cement vo | lume(s) are intend | ded to achieve a top of | 0 | ft from su | ırface or a | 1552 | | | | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg |
| 12 1/4 | 0.1882 | 530 | 915 | 719 | 27 | 10.00 | 1509 | 2M | | | | 0.25 |
| D V Tool(s): | | | | | | | sum of sx | Σ CuFt | | | | Σ%excess |
| t by stage %: | | #VALUE! | #VALUE! | | | | 530 | 915 | | | | 27 |
| Class 'H' tail cn | nt yld > 1.20 | | | | | | | | | | | |

| 8 5/8 | casin | g inside the | 10 3/4 | | | Design Fac | ctors | | _ | Int 2 | | |
|-------------------------------|------------------------------------------|-----------------------------|---------------------|------------------------|----------|------------|------------|--------|-----|-------|------|-----------|
| Segment | #/ft | Grade | | Coupling | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 32.00 | | p 110 | mo-fxl | 5.70 | 1.58 | 1.67 | 5,517 | 4 | 2.90 | 2.85 | 176,544 |
| "B" | | | | | | | | 0 | | | | 0 |
| | w/8.4#/g | g mud, 30min Sfc Csg Test p | osig: 1,500 | | | | Totals: | 5,517 | | | | 176,544 |
| | | The cement v | olume(s) are intend | ed to achieve a top of | 0 | ft from su | rface or a | 3412 | | | | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg |
| 9 7/8 | 0.1261 | 490 | 844 | 724 | 17 | 9.50 | 3347 | 5M | | | | 0.63 |
| Class 'C' tail cmt yld > 1.35 | | | | | | | | | | | | |
| | Does not meet CFO 25% excess requirement | | | | | | | | | | | |

| 5 1/2 | casin | g inside the | 8 5/8 | | | <u>Design F</u> | actors | | Prod 1 | | | |
|-------------------|---------------|-------------------------|---------------------|-------------------------|----------|-----------------|------------|--------|--------|------|------|-----------|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 20.00 | | p 110 | geoconn | 1.26 | 1.71 | 2.36 | 11,642 | 2 | 4.10 | 3.32 | 232,840 |
| "B" | 20.00 | | p 110 | geoconn | ∞ | 1.91 | 2.36 | 10,011 | 2 | 4.10 | 3.32 | 200,220 |
| 1 | w/8.4#/g | mud, 30min Sfc Csg Test | psig: 2,459 | | | | Totals: | 21,653 | | | | 433,060 |
| | | The cement v | olume(s) are intend | led to achieve a top of | 5317 | ft from su | rface or a | 200 | | | | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg |
| 7 7/8 | 0.1733 | 1950 | 3775 | 2831 | 33 | 10.00 | | | | | | 0.91 |
| Class 'H' tail cm | nt yld > 1.20 | | Capitan Reef est | t top XXXX. | | | | | | | | |
| | | | | | | | | | | | | |

Carlsbad Field Office 3/18/2024

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: COLGATE OPERATING LLC
WELL NAME & NO.: ROBIN FED 133H
SURFACE HOLE FOOTAGE: 10'/S & 1355'/E
BOTTOM HOLE FOOTAGE 10'/N & 2310'/E
LOCATION: Section 20, T.20 S., R.34 E., NMP
COUNTY: Lea County, New Mexico

COA

| H2S | • Yes | O No | |
|----------------------|------------------|-----------------------------|------------------|
| Potash | O None | © Secretary | ⊙ R-111-P |
| Cave/Karst Potential | • Low | © Medium | C High |
| Cave/Karst Potential | Critical | | |
| Variance | O None | • Flex Hose | Other |
| Wellhead | Conventional | Multibowl | O Both |
| Wellhead Variance | O Diverter | | |
| Other | ✓ 4 String | | □WIPP |
| Other | ☐ Fluid Filled | ☐ Pilot Hole | ☐ Open Annulus |
| Cementing | ☐ Contingency | ☐ EchoMeter | ☐ Primary Cement |
| _ | Cement Squeeze | | Squeeze |
| Special Requirements | ☐ Water Disposal | ▼ COM | □ Unit |
| Special Requirements | ☐ Batch Sundry | | |
| Special Requirements | ✓ Break Testing | ✓ Offline | ✓ Casing |
| Variance | | Cementing | Clearance |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately 1620 feet per BLM Geologist (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 17 1/2 inch in diameter.

- 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 will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- 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 10-3/4 inch intermediate casing 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 cave/karst, potash or capitan reef.
 - ❖ In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
- 3. The minimum required fill of cement behind the 8-5/8 inch intermediate casing 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 cave/karst, potash or capitan reef.
 Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top **or 500 feet** into the previous casing, whichever is greater. 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 cave/karst, potash or capitan reef.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface 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.
 - 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. 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.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance:

Operator casing variance is approved for the utilization of 10-3/4 inch intermediate casing in a 12 ¼ inch intermediate hole.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL 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
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

- ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. 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.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

- 2. 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 are located, this does not include the dog house or stairway area.
- 3. 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.

A. 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.
- 2. 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. 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.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If 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.
- 3. 5M or higher 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.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 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 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 cement), 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. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** 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 (8 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).
 - d. 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.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. 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.

- g. 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.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. 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.

JS 3/18/2024

Permian Resources - Robin Fed 133H

1. Geologic Formations

| Formation | Lithology | Elevation | TVD | Target |
|----------------------|---------------------------|-----------|-------|--------|
| Rustler | Sandstone | 2178 | 1527 | No |
| Top of Salt | Salt | 2068 | 1637 | No |
| Yates | Anhydrite/Shale | 318 | 3387 | No |
| Seven Rivers | Limestone | NP | NP | No |
| Capitan | Sandstone | 83 | 3622 | No |
| Delaware Sands | Sandstone | -1862 | 5567 | No |
| Brushy Canyon | Sandstone | -3102 | 6807 | No |
| Bone Spring Lime | Limestone/Shale | -4832 | 8537 | No |
| 1st Bone Spring Sand | Sandstone/Limestone/Shale | -5807 | 9512 | No |
| 2nd Bone Spring Sand | Sandstone/Limestone/Shale | -6382 | 10087 | No |
| 3rd Bone Spring Sand | Sandstone/Limestone/Shale | -7142 | 10847 | Yes |
| Wolfcamp | Shale | -7390 | 11095 | No |

2. Blowout Prevention

| BOP installed and tested before drilling | Size? | Min. Required WP | Ту | Туре | | Туре | | Туре | | Туре | | Туре | | Туре | | Туре | | Tested to: |
|------------------------------------------|---------|------------------------|------------|---------|------------|----------|----------|----------|---|----------|--|------|--|------|--|------|--|------------|
| | | | Anr | Annular | | 2500 psi | | | | | | | | | | | | |
| | | | Blind | Ram | Х | | | | | | | | | | | | | |
| 12.25 | 13-5/8" | 5M | Pipe | Ram | Х | 5000 psi | | | | | | | | | | | | |
| | | | Double | e Ram | | 3000 psi | | | | | | | | | | | | |
| | | | Other* | | | | | | | | | | | | | | | |
| | | | Annular | | Х | 2500 psi | | | | | | | | | | | | |
| | | | Blind | Ram | Х | | | | | | | | | | | | | |
| 9.875 | 13-5/8" | 5M | Pipe Ram | | Х | 5000 pai | | | | | | | | | | | | |
| | | | Double | e Ram | | 5000 psi | | | | | | | | | | | | |
| | | | Other* | | | | | | | | | | | | | | | |
| | | | Anr | nular | Х | 2500 psi | | | | | | | | | | | | |
| | | | Blind Ram | | Х | | | | | | | | | | | | | |
| 7.875 | 13-5/8" | 5M | Pipe Ram | | Pipe Ram | | Pipe Ram | | Х | 5000 nai | | | | | | | | |
| | | | Double Ram | | Double Ram | | | 5000 psi | | | | | | | | | | |
| | | | Other* | | | 1 | | | | | | | | | | | | |

Equipment: BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. All BOPE connections shall be flanged, welded or clamped. All choke lines shall be straight unless targeted with running tees or tee blocks are used, and choke lines shall be anchored to prevent whip and reduce vibrations. All valves in the choke line & the choke manifold shall be full opening as to not cause restrictions and to allow for straight fluid paths to minimize potential erosion. All gauges utilized in the well control system shall be of a type designed for drilling fluid service. A top drive inside BOP valve will be utilized at all times. Subs equipped with full opening valves sized to fit the drill pipe and collars will be available on the rig floor in the open position. The key to operate said valve equipped subs will be on the rig floor at all times. The accumulator system will have sufficient capacity to open the HCR and close all three sets of rams plus the annular preventer while retaining at least 300 psi above precharge on the closing manifold (accumulator system shall be capable of doing so without using the closing unit pumps). The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity, and the fluid level will be maintained at the manufacturer's recommended level. Prior to connecting the closing unit to the BOP stack, an accumulator precharge pressure test shall be performed to ensure the precharge pressure is within 100 psi of the desired precharge pressure (only nitrogen gas will be used to precharge). Two independent power sources will be made available at all times to power the closing unit pumps so that the pumps can automatically start when the closing valve manifold pressure has decreased to the preset level. Closing unit pumps will be sized to allow opening of HCR and closing of annular preventer on 5" drill pipe achieving at least 200 psi above precharge pressure with the accumulator system isolated from service in less than two minutes. A valve shall be installed in the closing line as close to the annular preventer as possible to act as a locking device; the valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative. Remote controls capable of opening and closing all preventers & the HCR shall be readily accessible to the driller; master controls with the same capability will be operable at the accumulator. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing & isolation of the 133/8 x 95/8 annulus without breaking the connection between the BOP & wellhead to install an additional casing head. A wear bushing will be installed & inspected frequently to guard against internal wear to wellhead. VBRs (variablebore rams) will be run in upper rambody of BOP stack to provide redundancy to annular preventer while RIH w/ production casing;

Requesting Variance? YES

Variance request: Break testing, flex hose, and offline cement variances, see attachments in section 8. Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order II requirements. The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 3500 psi. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator and a multi-bowl system will be used, please see attachment in section 8 for multi-bowl procedure. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checked will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP), choke lines, and choke manifold. See attached schematics.

Choke Diagram Attachment: 5M Choke Manifold BOP Diagram Attachment: BOP Schematics

3. Casing

| String | Hole Size | Casing Size | Тор | Bottom | Тор ТVD | Bottom TVD | Length | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|----------------|-----------|-------------|-------|--------|---------|------------|--------|---------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
| Surface | 17.5 | 13.375 | 0 | 1552 | 0 | 1552 | 1552 | J55 | 54.5 | BTC | 1.47 | 1.91 | Dry | 4.92 | Dry | 4.62 |
| Intermediate 1 | 12.25 | 10.75 | 0 | 3412 | 0 | 3412 | 3412 | J55 | 45.5 | BTC | 6.82 | 3.65 | Dry | 4.16 | Dry | 4.07 |
| Intermediate 2 | 9.875 | 8.625 | 0 | 5517 | 0 | 5517 | 5517 | P110 HS | 32 | MO-FXL | 4.63 | 2.28 | Dry | 2.85 | Dry | 4.14 |
| Production | 7.875 | 5.5 | 0 | 11406 | 0 | 11053 | 11406 | P110RY | 20 | GeoConn | 1.93 | 2.02 | Dry | 2.00 | Dry | 2.00 |
| Production | 7.875 | 5.5 | 11406 | 21371 | 11053 | 11053 | 9965 | P110RY | 20 | GeoConn | 1.93 | 2.02 | Dry | 2.00 | Dry | 2.00 |
| | | | | | | | | BLM Mi | n Safe | ty Factor | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

4. Cement

| String | Lead/Tail | Top MD | Bottom MD | Quanity (sx) | Yield | Density | Cu Ft | Excess % | Cement Type | Additives |
|----------------|-----------|--------|-----------|--------------|-------|---------|-------|----------|-------------|----------------------------|
| Surface | Tail | 0 | 1552 | 1210 | 1.34 | 14.8 | 1620 | 50% | Class C | Accelerator |
| | | | | | | | | | | EconoCem-HLC + 5% Salt + |
| Intermediate 1 | Lead | 0 | 2720 | 380 | 1.88 | 12.9 | 700 | 50% | Class C | 5% Kol-Seal |
| Intermediate 1 | Tail | 2720 | 3412 | 150 | 1.34 | 14.8 | 200 | 50% | Class C | Retarder |
| | | | | | | | | | | EconoCem-HLC + 5% Salt + |
| Intermediate 2 | Lead | 0 | 4410 | 350 | 1.88 | 12.9 | 650 | 50% | Class C | 5% Kol-Seal |
| Intermediate 2 | Tail | 4410 | 5517 | 140 | 1.33 | 14.8 | 180 | 25% | Class C | Salt |
| | | | | | | | | | | POZ, Extender, Fluid Loss, |
| Production | Lead | 5017 | 10656 | 560 | 2.41 | 11.5 | 1340 | 40% | Class H | Dispersant, Retarder |
| | | | | | | | | | | POZ, Extender, Fluid Loss, |
| Production | Tail | 10656 | 21371 | 1350 | 1.73 | 12.5 | 2330 | 25% | Class H | Dispersant, Retarder |

If losses are encountered while drilling intermediate 2 a stage tool will be added and cement will be adjusted accordingly.

5. Circulating Medium

Mud System Type: Closed

Will an air or gas system be used: No

Describe what will be on location to control well or mitigate oter conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Cuttings Volume: 10600 Cu Ft

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight | Max Weight |
|-----------|--------------|----------------|------------|------------|
| 0 | 1552 | Spud Mud | 8.6 | 9.5 |
| 1552 | 3412 | Salt Saturated | 10 | 10 |
| 3412 | 5517 | Water Base Mud | 8.6 | 9.5 |
| 5517 | 11406 | Brine | 9 | 10 |
| 11406 | 21371 | OBM | 9 | 10 |

6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY, GAMMA RAY LOG,

Coring operation description for the well:

N/A

7. Pressure

| Anticipated Bottom Hole Pressure | 5750 | psi |
|-----------------------------------------------------|------|-----|
| Anticipated Surface Pressure | 3316 | psi |
| Anticipated Bottom Hole Temperature | 165 | °F |
| Anticipated Abnormal pressure, temp, or geo hazards | No | |

8. Waste Management

| Waste Type: | Drilling |
|-------------------------------|--------------------------------------------------|
| Waste content description: | Fresh water based drilling fluid |
| Amount of waste: | 1500 bbls |
| Waste disposal frequency: | Weekly (after drilling all surfaces) |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Grey Water & Human Waste |
| Waste content description: | Grey Water/Human Waste |
| Amount of waste: | 5000 gallons |
| Waste disposal frequency: | Weekly |
| Safe containment description: | Approved waste storage tanks with containment |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Garbage |
| Waste content description: | General trash/garbage |
| Amount of waste: | 5000 lbs |
| Waste disposal frequency: | Weekly |
| Safe containment description: | Enclosed trash trailer |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Drilling |
| Waste content description: | Drill Cuttings |
| Amount of waste: | 10600 Cu Ft |
| Waste disposal frequency: | Per well |
| Safe containment description: | Steel tanks |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Drilling |
| Waste content description: | Brine water based drilling fluid |
| Amount of waste: | 1500 bbls |
| Waste disposal frequency: | Monthly |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |

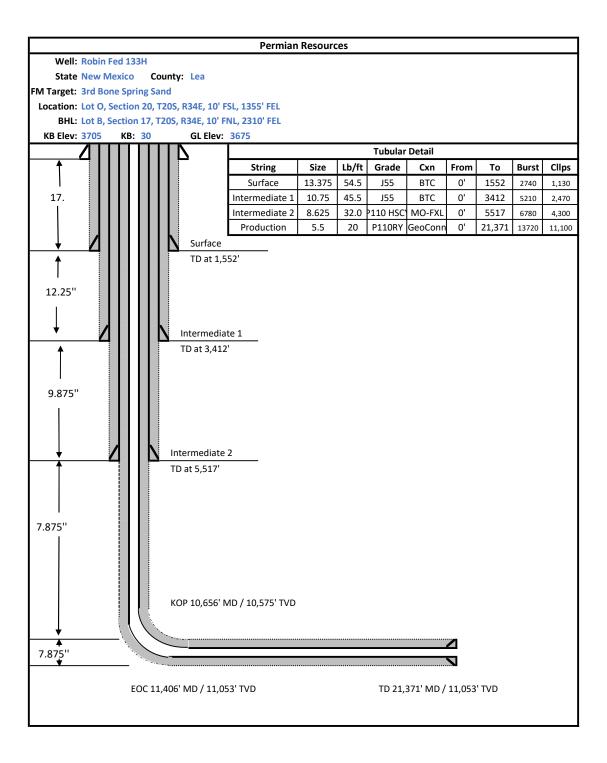
9. Other Information

Well Plan and AC Report: attached Batching Drilling Procedure: attached

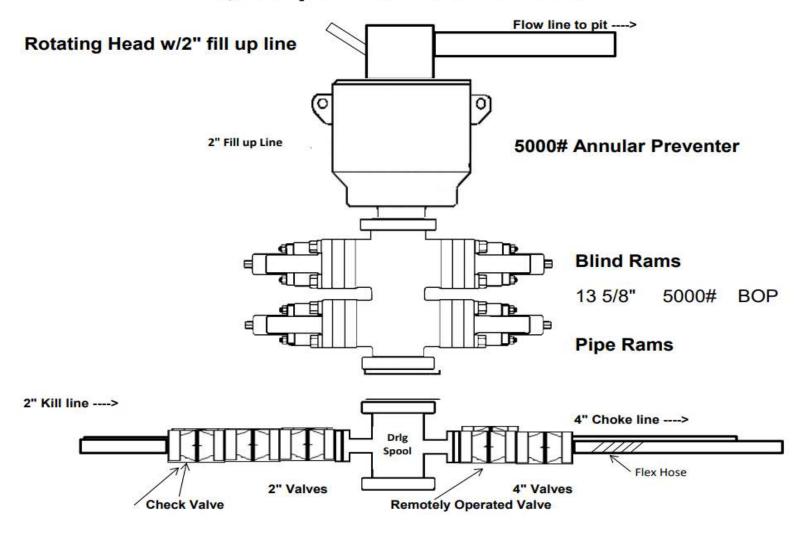
WBD: attached

Flex Hose Specs: attached

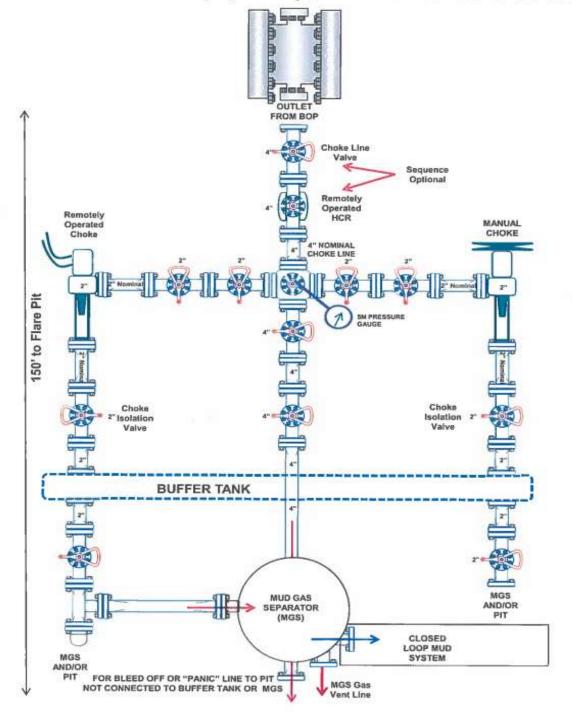
Offline Cementing Procedure: attached Break Testing Procedure: attached



5,000 psi BOP Schematic



5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)





CONTITECH RUBBER No:QC-DB- 210/ 2014 Industrial Kft. Page: 9 / 113

| QUALITY CONTROL INSPECTION AND TEST CERTIFICATE | | | | | CERT. Nº: 504 | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------|---------------|---------------------------------|---------------------------------------------------|---------------------------|
| PURCHASER: | Oil & Marine C | orp. | | P.O. Nº | Á A | 450040965 | 9 | |
| CONTITECH PLUBBER ON | HOSE TYPE: 3° ID | | ID. | | Choke and | nd Kill Hose | | |
| HOSE SERIAL Nº: | NOMINAL / ACT | TUAL LE | NGTH: | | 10,67 m | 1 / 10,77 m | | |
| W.P. 68,9 MPa | 10000 psi | T.P. 103,4 | MPa | 1500 | O pel | Duration | 60 | min |
| | 3 | See attachme | ent. (1 | page |) | | | |
| ↑ 10 mm= 10 → 10 mm= 20 | Min. | | | | | | | |
| 10 mm = 10 | MPa | Serial | N° | | | u±lity | Heat | M ₀ |
| ↑ 10 mm = 10 → 10 mm = 20 | MPs Type | Serial 9251 | N= 925 | 4 | - 120 | uelity SI 4130 | Heat ! | |
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ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No. 501, 504, 505

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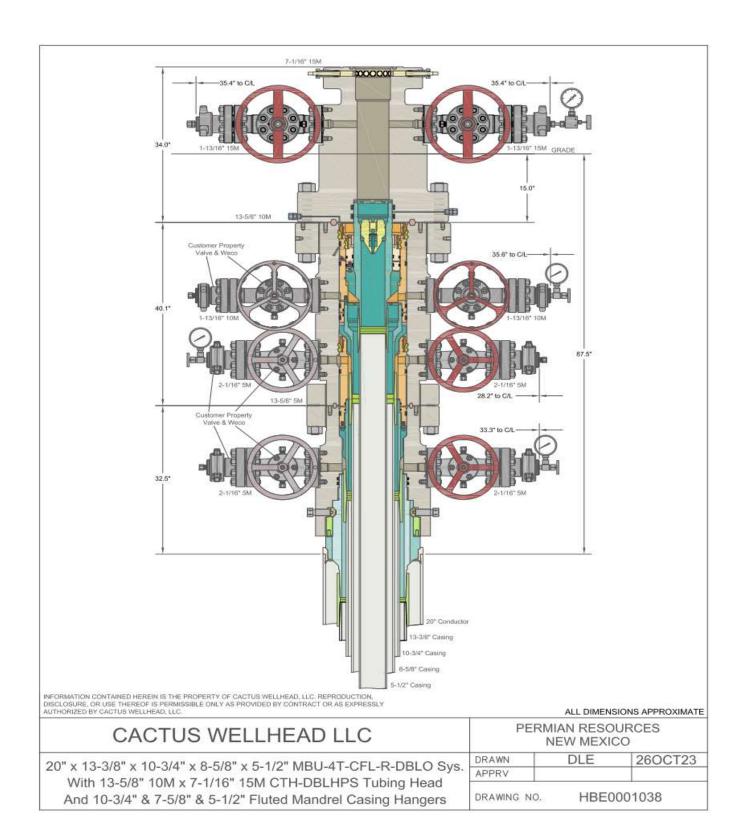
No:QC-DB- 210/ 2014 Page: 15 / 113

ContiTech

Hose Data Sheet

| CRI Order No. | 538236 |
|--------------------------------|-----------------------------------------------------------------------|
| Customer | ContiTech Oil & Marine Corp. |
| Customer Order No | 4500409859 |
| Item No. | 1 |
| Hose Type | Flexible Hose |
| Standard | API SPEC 16 C |
| Inside dia in inches | 3 |
| Length | 35 ft |
| Type of coupling one end | FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX156 R.GR.SOUR |
| Type of coupling other end | FLANGE 4.1/16* 10K API SPEC 6A TYPE 6BX FLANGE CAV BX155 R.GR.SOUR |
| H2S service NACE MR0175 | Yes |
| Working Pressure | 10 000 psi |
| Design Pressure | 10 000 psi |
| Test Pressure | 15 000 psi |
| Safety Factor | 2,25 |
| Marking | USUAL PHOENIX |
| Cover | NOT FIRE RESISTANT |
| Outside protection | St.steel outer wrap |
| Internal stripwound tube | No |
| Lining | OIL + GAS RESISTANT SOUR |
| Safety clamp | No |
| Lifting collar | No |
| Element C | No |
| Safety chain | No |
| Safety wire rope | No |
| Max.design temperature [°C] | 100 |
| Min.design temperature [°C] | -20 |
| Min. Bend Radius operating [m] | 0,90 |
| Min. Bend Radius storage [m] | 0,90 |
| Electrical continuity | The Hose is electrically continuous |
| Type of packing | WOODEN CRATE ISPM-15 |

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Permian Resources Casing Design Criteria

A sundry will be requested if any lesser grade or different size casing is substituted. All casing will be centralized as specified in On Shore Order II. Casing will be tested as specified in On Shore Order II.

Casing Design Assumptions:

Surface

- 1) Burst Design Loads
 - a) Displacement to Gas
 - (1) Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate I

- 1) Burst Design Loads
 - a) Displacement to Gas
 - (1) Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.

- (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a
 depth where the hydrostatic pressure of the mud column equals pore pressure at the
 depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate or Intermediate II

- 1) Burst Design Loads
 - a) Gas Kick Profile
 - Internal: Load profile based on influx encountered in lateral portion of wellbore with a maximum influx volume of 150 bbl and a kick intensity of 1.5 ppg using maximum anticipated MW of 9.9 ppg.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the deepest TVD of the next hole section and the fluid level falls
 to a depth where the hydrostatic pressure of the mud column equals pore pressure at the
 depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

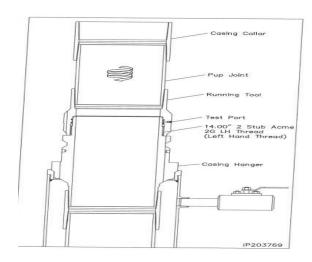
Production

- 1) Burst Design Loads
 - a) Injection Down Casing
 - (1) Internal: Surface pressure plus injection fluid gradient.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test (Drilling)
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - c) Casing Pressure Test (Production)
 - (1) Internal: The design pressure test should be the greater of the planned test pressure prior to simulation down the casing, the regulatory test pressure, and the expected gas lift system pressure. The design test fluid should be the fluid associated with the pressure test having the greatest pressure.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - d) Tubing Leak
 - (1) Internal: SITP plus a packer fluid gradient to the top of packer.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
 - b) Full Evacuation
 - (1) Internal: Full void pipe.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Permian Resources Multi-Well Pad Batch Drilling & Off Line Cement Procedure

<u>Surface Casing</u> - PR intends to Batch set and offline cement all surface casing to a depth approved in the APD. Surface Holes will be batch drilled by a big rig. Appropriate notifications will be made prior to spudding the well, running, and cementing casing and prior to skidding to the rig to the next well on pad.

- 1. Drill Surface hole to Approved Depth with Surface Preset Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
- 2. Run casing with Cactus Multibowl system, with baseplate supported by Conductor.
- 3. Circulate 1.5 csg capacity.
- 4. Flow test Confirm well is static.
- 5. Install cap flange.
- 6. Skid rig to next well on pad
- 7. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
- 8. Install offline cement tool.
- 9. Rig up cementers.
- 10. Circulate bottoms up with cement truck
- 11. Commence planned cement job, take returns through the annulus wellhead valve
- 12. After plug is bumped confirm floats hold and well is static
- 13. Perform green cement casing test.
 - a) Test Surface casing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst.
- 14. Rig down cementers and equipment
- 15. Install night cap with pressure gauge to monitor.

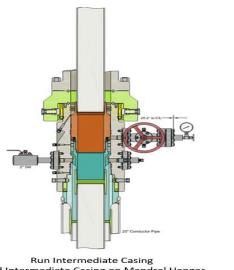


<u>Intermediate 1 Casing</u> – PR intends to Batch set all intermediate 1 casing strings to a depth approved in the APD, typically set into end of salts. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

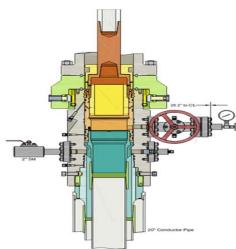
Rig will remove the nightcap and install and test BOPE (testing will be performed on the first Intermediate 1 as per requested break testing variance).

Install wear bushing then drill out 20" shoe-track.

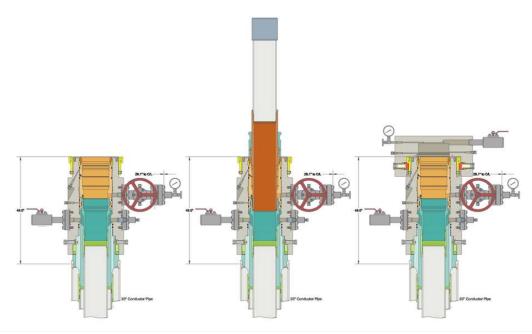
- 1. Drill Intermediate 1 hole to approved casing point. Trip out of hole with BHA to run Casing.
- 2. Remove wear bushing then run and land Intermediate 1 casing with mandrel hanger in wellhead.
- 3. Flow test Confirm well is static.
- 4. Set Annular packoff and pressure test. Test to 5k.
- 5. Install BPV, Nipple down BOP and install cap flange.
- 6. Skid rig to next well on pad
- 7. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
- 8. Install offline cement tool.
- 9. Rig up cementers.
- 10. Circulate bottoms up with cement truck
- 11. Commence planned cement job, take returns through the annulus wellhead valve
- 12. After plug is bumped confirm floats hold and well is static
- 13. Perform green cement casing test.
 - a) Test casing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst
- 14. Rig down cementers and equipment
- 15. Install night cap with pressure gauge to monitor.



Run Intermediate Casing Land Intermediate Casing on Mandrel Hanger Cement Intermediate Casing Retrieve Running Tool



Run Packoff Test Upper and Lower Seals Engage Lockring Retrieve Running Tool



<u>Intermediate 2 Casing</u> – PR intends to Batch set all Intermediate 2 casing strings to a depth approved in the APD, typically set into Captain past losses. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

- 1. Rig will remove the nightcap and install and test BOPE (testing will be performed on the first Intermediate 2 as per requested break testing variance).
- 2. Install wear bushing then drill out Intermediate 1 shoe-track.
- 3. Drill Intermediate 2 hole to approved casing point. Trip out of hole with BHA to run Casing.
- 4. Remove wear bushing then run and land Intermediate 2 casing with mandrel hanger in wellhead.
- 5. Flow test Confirm well is static.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Install BPV, Nipple down BOP and install cap flange.
- 8. Skid rig to next well on pad
- 9. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
- 10. Install offline cement tool.
- 11. Rig up cementers.
- 12. Circulate bottoms up with cement truck
- 13. Commence planned cement job, take returns through the annulus wellhead valve
- 14. After plug is bumped confirm floats hold and well is static
- 15. Perform green cement casing test.
 - a) Test casing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst.
- 16. Rig down cementers and equipment
- 17. Install night cap with pressure gauge to monitor.

<u>Production Casing</u> – PR intends to Batch set all Production casings. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

- 1. Rig will remove the nightcap and install and test BOPE.
- 2. Install wear bushing then drill Intermediate shoe-track.
- 3. Drill Vertical hole to KOP Trip out for Curve BHA.
- 4. Drill Curve, landing in production interval Trip for Lateral BHA.
- 5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run Production Casing.
- 6. Remove wear bushing then run Production casing to TD landing casing mandrel in wellhead.
- 7. Cement Production string to surface with floats holding.

Permian Resources BOP Break Testing Variance Procedure

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE). Permian Resources requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Title 43 CFR 3172, Drilling Operations, Sections 6.b.9.iv states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. 43 CFR 3172.13, Variances from minimum standards states, "An operator may request the authorized officer to approve a variance from any of the minimum standards prescribed in §§ 3172.6 through 3172.12. All such requests shall be submitted in writing to the appropriate authorized officer and provide information as to the circumstances which warrant approval of the variance(s) requested and the proposed alternative methods by which the related minimum standard(s) are to be satisfied. The authorized officer, after considering all relevant factors, if appropriate, may approve the requested variance(s) if it is determined that the proposed alternative(s) meet or exceed the objectives of the applicable minimum standard(s).". Permian Resources feels the break testing the BOPE is such a situation. Therefore, as per 43 CFR 3172.13, Permian Resources submits this request for the variance.

Supporting Documentation

The language used in 43 CFR 3172 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time, there have been significant changes in drilling technology. The BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR 3172 was originally released. The Permian Resources drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System



American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. 43 CFR 3172 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

| 52 | API STANDARD 53 | | | | | |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------|--|--|--|
| Та | ble C.4—Initial Pressure Te | esting. Surface BOP Stacks | | | | |
| | Pressure Test—Low | Pressure Test—High Pressure** | | | | |
| Component to be Pressure Tested | Pressure** psig (MPa) | Change Out of Component, Elastomer, or Ring Gasket | No Change Out of Component, Elastomer, or Ring Gasket | | | |
| Annular preventer | 250 to 350 (1 72 to 2.41) | RWP of annular preventer | MASP or 70% annular RWP, whichever is lower. | | | |
| Fixed pipe, variable bore, blind, and BSR preventers∞ | 250 to 350 (1.72 to 2.41) | RWP of ram preventer or wellhead system, whichever is lower | ПР | | | |
| Choke and kill line and BOP side outlet valves below ram preventers (both sides) | 250 to 350 (1.72 to 2 41) | RWP of side outlet valve or wellhead system, whichever is lower | ІТР | | | |
| Choke manifold—upstream of chokes* | 250 to 350 (1.72 to 2.41) | RWP of ram preventers or wellhead system, whichever is lower | ПР | | | |
| Choke manifold—downstream of chokes* | 250 to 350 (1.72 to 2.41) | RWP of valve(s), line(s), or MASP for the well program, whichever is lower | | | | |
| Kelly, kelly valves, drill pipe safety valves, IBOPs | 250 to 350 (1.72 to 2.41) | MASP for the well program | | | | |
| | during the evaluation period. The p | ressure shall not decrease below the allest OD drill pipe to be used in well p | | | | |
| For pad drilling operations, moving pressure-controlling connections | from one wellhead to another within when the integrity of a pressure sea | n the 21 days, pressure testing is requal is broken. | uired for pressure-containing an | | | |
| For surface offshore operations, the | ne ram BOPs shall be pressure test band operations, the ram BOPs sha | led with the ram locks engaged and all be pressure tested with the ram loo | | | | |

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

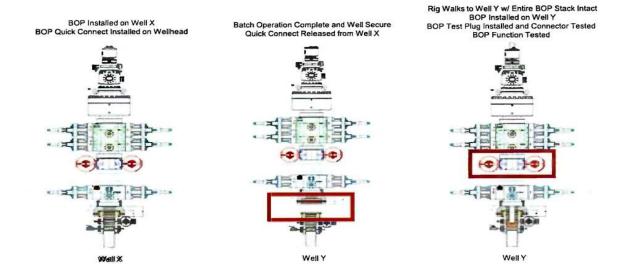
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

Permian Resources feels break testing and our current procedures meet the intent of 43 CFR 3172 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. Permian Resources internal standards require complete BOPE tests more often than that of 43 CFR 3172 (every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, Permian Resources performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of 43 CFR 3172.

Procedures

- 1) Permian Resources will use this document for our break testing plan for New Mexico Delaware Basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
- 2) Permian Resources will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a)A full BOP test will be conducted on the first well on the pad.
- b) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same formation depth or shallower.
- c) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d) A full BOP test will be required prior to drilling any production hole.
- 3) After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a) Between the HCV valve and choke line connection
 - b)Between the BOP quick connect and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5) After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6) The connections mentioned in 3a and 3b will then be reconnected.
- 7) Install test plug into the wellhead using test joint or drill pipe.
- 8) A shell test is performed against the upper pipe rams testing the two breaks.
- 9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10) Function tests will be performed on the following components: lower pipe rams, blind rams, and annular.
- 11) For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12) A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

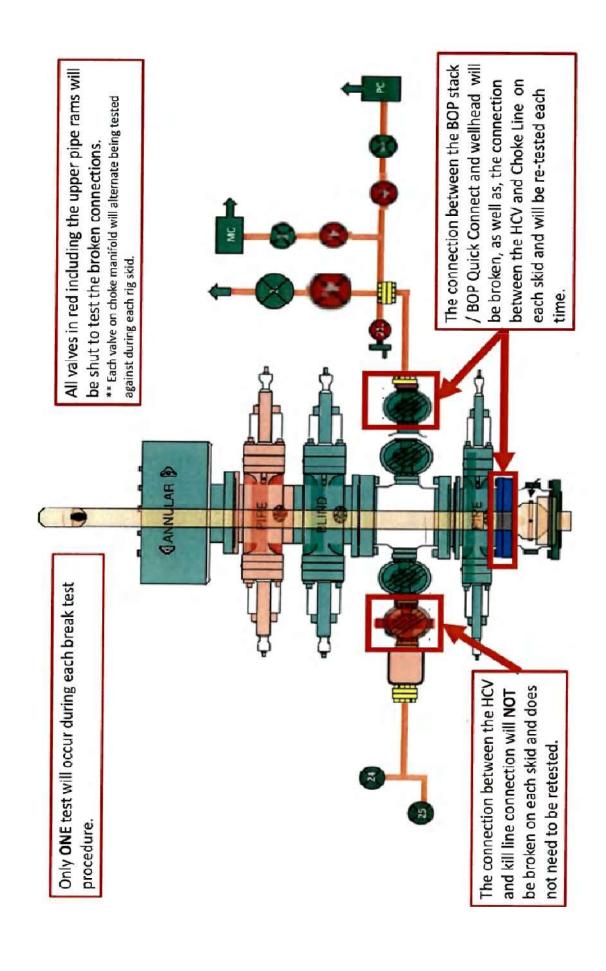
A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

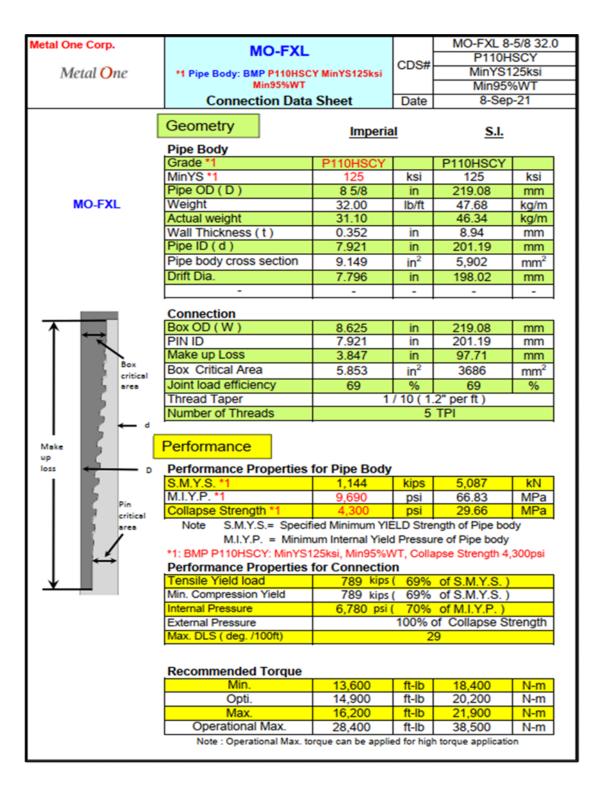
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control

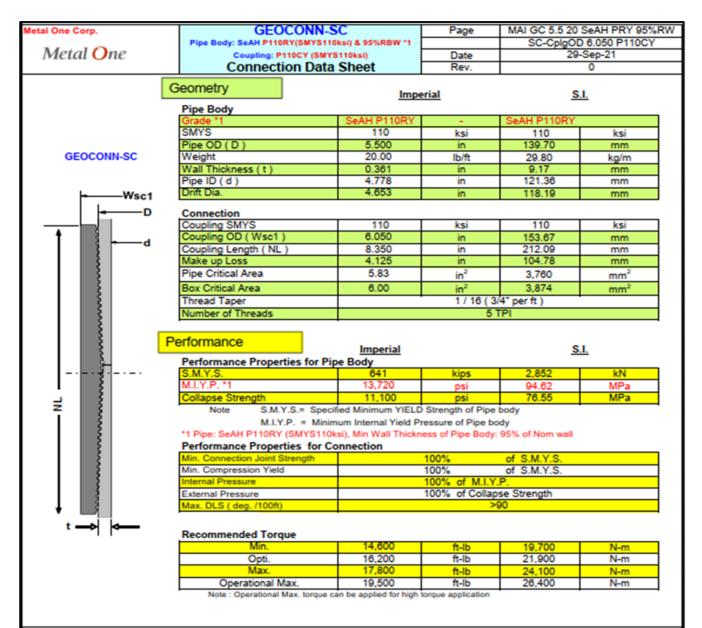
event occurs prior to the commencement of a BOPE Break Testing operation.

Based on public data and the supporting documentation submitted herein to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1) After a full BOP test is conducted on the first well on the pad.
- 2) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same depth or shallower.
- 3) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4) A full BOP test will be required prior to drilling the production hole.







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The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to <a href="http://www.mtin.co.io/more-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-product-with-the-

District I
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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 324460

CONDITIONS

| Operator: | OGRID: | |
|-----------------------------|--------------------------------------|--|
| COLGATE OPERATING, LLC | 371449 | |
| 300 North Marienfeld Street | Action Number: | |
| Midland, TX 79701 | 324460 | |
| | Action Type: | |
| | [C-103] NOI Change of Plans (C-103A) | |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|------------------------------------------------------------------------------------------|-------------------|
| pkautz | Must circulate cement on surface casing, Intermediate1 and intermediate2 casing strings. | 3/19/2024 |
| pkautz | IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A CBL MUST BE RUN ON THAT STRING OF CASING. | 3/19/2024 |