

Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-54760
5. Indicate Type of Lease
STATE [X] FEE [ ]
6. State Oil & Gas Lease No.
335370
7. Lease Name or Unit Agreement Name
Padron 10 State WC Unit
8. Well Number 771H
9. OGRID Number 7377
10. Pool name or Wildcat
989220 - Purple Sage; Wolfcamp (Gas)
11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3182' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [X] Gas Well [ ] Other [ ]
2. Name of Operator
EOG Resources, Inc.
3. Address of Operator
P.O. Box 2267, Midland, Texas 79702
4. Well Location
Unit Letter P : 1233 feet from the South line and 360 feet from the East line
Section 10 25S Township 27E Range NMNM Eddy County
11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3182' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [ ] PLUG AND ABANDON [ ]
TEMPORARILY ABANDON [ ] CHANGE PLANS [X]
PULL OR ALTER CASING [ ] MULTIPLE COMPL [ ]
DOWNHOLE COMMINGLE [ ]
CLOSED-LOOP SYSTEM [ ]
OTHER: [ ]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [ ] ALTERING CASING [ ]
COMMENCE DRILLING OPNS. [ ] P AND A [ ]
CASING/CEMENT JOB [ ]
OTHER: [ ]

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:

Update casing and cement program to current design.

Add a plug-back pilot hole

Spud Date: 2/26/2024

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE TITLE\_Sr Regulatory Specialist DATE\_3/5/2024

Type or print name Star Harrell E-mail address: star\_harrell@eogresources.com PHONE: 432-848-9161

For State Use Only

APPROVED BY: TITLE DATE

Conditions of Approval (if any):



Padron 10 State Com #771H  
Eddy County, New Mexico  
Proposed Wellbore  
Design A

KB: 3207'  
GL: 3182'

1233' FSL  
360' FEL  
Section 10  
T-25-S, R-27-E

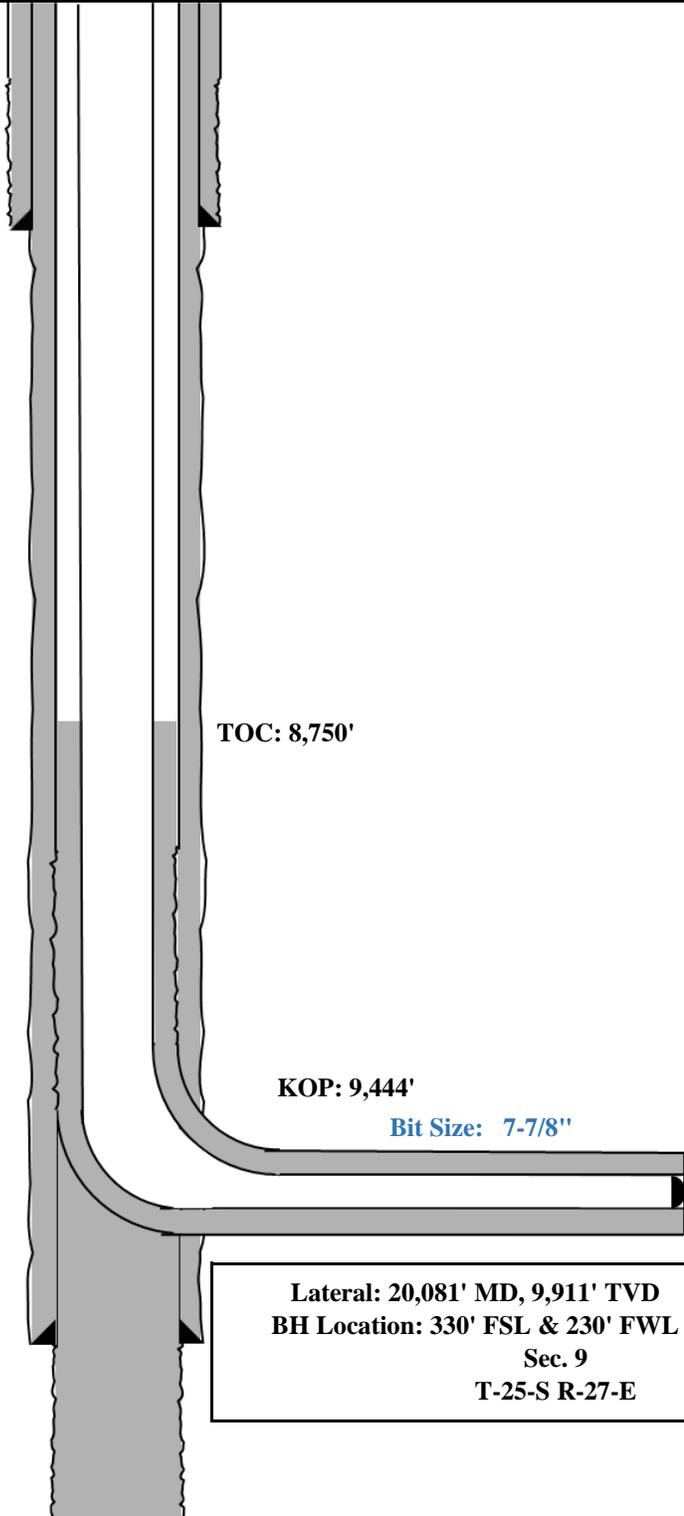
API: 30-015-\*\*\*\*\*

Bit Size: 13-1/2"  
10-3/4", 40.5#, J-55, STC, 0' - 2,200'

Bit Size: 9-7/8"  
8-3/4", 38.5#, P110-EC, SLIJ II NA, 0' - 9,250'

Bit Size: 7-7/8"  
6", 24.5#, P110-EC, VAM Sprint-SF, @ 0' - 20,081'

Pilot Hole Bit Size: 7-7/8" (Pilot hole vertical, 10,680' MD/10,565' TVD). Cement from 9,300' to 10,680'.  
Set bridge plug in casing, set whipstock @ ~9,200' TVD and mill out of casing.



Lateral: 20,081' MD, 9,911' TVD  
BH Location: 330' FSL & 230' FWL  
Sec. 9  
T-25-S R-27-E



### Padron 10 State Com #771H

#### Permit Information:

Well Name: Padron 10 State Com #771H

#### Location:

SHL: 1233' FSL & 360' FEL, Section 10, T-25-S, R-27-E, Eddy Co., N.M.

BHL: 330' FSL & 230' FWL, Section 9, T-25-S, R-27-E, Eddy Co., N.M.

#### Design A

#### Casing Program:

| Hole Size | Interval     | Csg OD | Weight | Grade   | Conn          | DFmin Collapse | DFmin Burst | Dfmin Tension |
|-----------|--------------|--------|--------|---------|---------------|----------------|-------------|---------------|
| 13.5"     | 0' - 2,200'  | 10.75" | 40.5#  | J-55    | STC           | 1.125          | 1.25        | 1.6           |
| 9.875"    | 0' - 9,250'  | 8.75"  | 38.5#  | P110-EC | SLIJ II NA    | 1.125          | 1.25        | 1.6           |
| 7.875"    | 0' - 20,081' | 6"     | 24.5#  | P110-EC | VAM Sprint-SF | 1.125          | 1.25        | 1.6           |

#### Cement Program:

| Depth                           | No. Sacks | Wt. ppg | Yld Ft3/sk | Slurry Description  |
|---------------------------------|-----------|---------|------------|---|
| 2,200'                          | 620       | 13.5    | 1.73       | Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface) |
|                                 | 90        | 14.8    | 1.34       | Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate                                |
| 9,250'                          | 690       | 14.2    | 1.11       | 1st Stage (Tail): Class C + 5% Salt (TOC @ 4,031')  |
|                                 | 1000      | 14.8    | 1.5        | 2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)      |
| 10,680'<br>7-7/8"<br>Pilot Hole | 423       | 15.6    | 1.20       | Plug: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 1,670')                             |
| 20,081'                         | 1620      | 13.2    | 1.31       | Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 8,750')                           |

#### Mud Program:

| Depth                          | Type        | Weight (ppg) | Viscosity | Water Loss |
|--------------------------------|-------------|--------------|-----------|------------|
| 0 - 2,200'                     | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 2,200' - 9,250'                | Brine       | 9.0-10.5     | 28-34     | N/c        |
| 9,250' - 9,444'                | Oil Base    | 8.7-9.4      | 58-68     | N/c - 6    |
| 9,444' - 20,081'<br>Lateral    | Oil Base    | 10.0-14.0    | 58-68     | 4 - 6      |
| 9,444' - 10,680'<br>Pilot Hole | Oil Base    | 10.0-14.0    | 58-68     | 4 - 6      |



## Padron 10 State Com 771H

### TUBING REQUIREMENTS

EOG respectfully requests an exception to the following NMOCD rule:

- 19.15.16.10 Casing AND TUBING REQUIREMENTS:  
J (3): “The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone.”

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.



## Padron 10 State Com #771H

- **Mud program:**

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H<sub>2</sub>S bearing zones.
  
- **Metallurgy:**

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.
  
- **Communication:**

Communication will be via cell phones and land lines where available.



**Padron 10 State Com #771H  
Emergency Assistance Telephone List**

**PUBLIC SAFETY:** **911 or**

|   |  |                |
|---|--|----------------|
| Lea County Sheriff's Department                 |  | (575) 396-3611 |
| Rod Coffman                                     |  |                |
| Fire Department:                                |  |                |
| Carlsbad  |  | (575) 885-3125 |
| Artesia   |  | (575) 746-5050 |
| Hospitals:                                      |  |                |
| Carlsbad  |  | (575) 887-4121 |
| Artesia   |  | (575) 748-3333 |
| Hobbs   |  | (575) 392-1979 |
| Dept. of Public Safety/Carlsbad                 |  | (575) 748-9718 |
| Highway Department                              |  | (575) 885-3281 |
| New Mexico Oil Conservation                     |  | (575) 476-3440 |
| NMOCD Inspection Group - South: Gilbert Cordero |  | (575)-626-0830 |
| U.S. Dept. of Labor                             |  | (575) 887-1174 |

**EOG Resources, Inc.**

|               |        |                |
|---------------|--------|----------------|
| EOG / Midland | Office | (432) 686-3600 |
|---------------|--------|----------------|

**Company Drilling Consultants:**

|                 |      |                |
|-----------------|------|----------------|
| David Dominique | Cell | (985) 518-5839 |
| Mike Vann       | Cell | (817) 980-5507 |

**Drilling Engineer**

|                   |      |                |
|-------------------|------|----------------|
| Esteban Del Valle | Cell | (432) 269-7063 |
| Stephen Davis     | Cell | (432) 235-9789 |

**Drilling Manager**

|          |        |                |
|----------|--------|----------------|
| Matt Day | Office | (432) 848-9068 |
|          | Cell   | (210) 296-4456 |

**Drilling Superintendent**

|                |        |                |
|----------------|--------|----------------|
| Jason Townsend | Office | (432) 848-9209 |
|                | Cell   | (210) 776-5131 |

**H&P Drilling**

|                      |        |                |
|----------------------|--------|----------------|
| H&P Drilling         | Office | (432) 563-5757 |
| H&P 651 Drilling Rig | Rig    | (903) 509-7131 |

**Tool Pusher:**

|                 |      |                |
|-----------------|------|----------------|
| Johnathan Craig | Cell | (817) 760-6374 |
| Brad Garrett    |      |                |

**Safety:**

|                              |        |                |
|------------------------------|--------|----------------|
| Brian Chandler (HSE Manager) | Office | (432) 686-3695 |
|                              | Cell   | (817) 239-0251 |

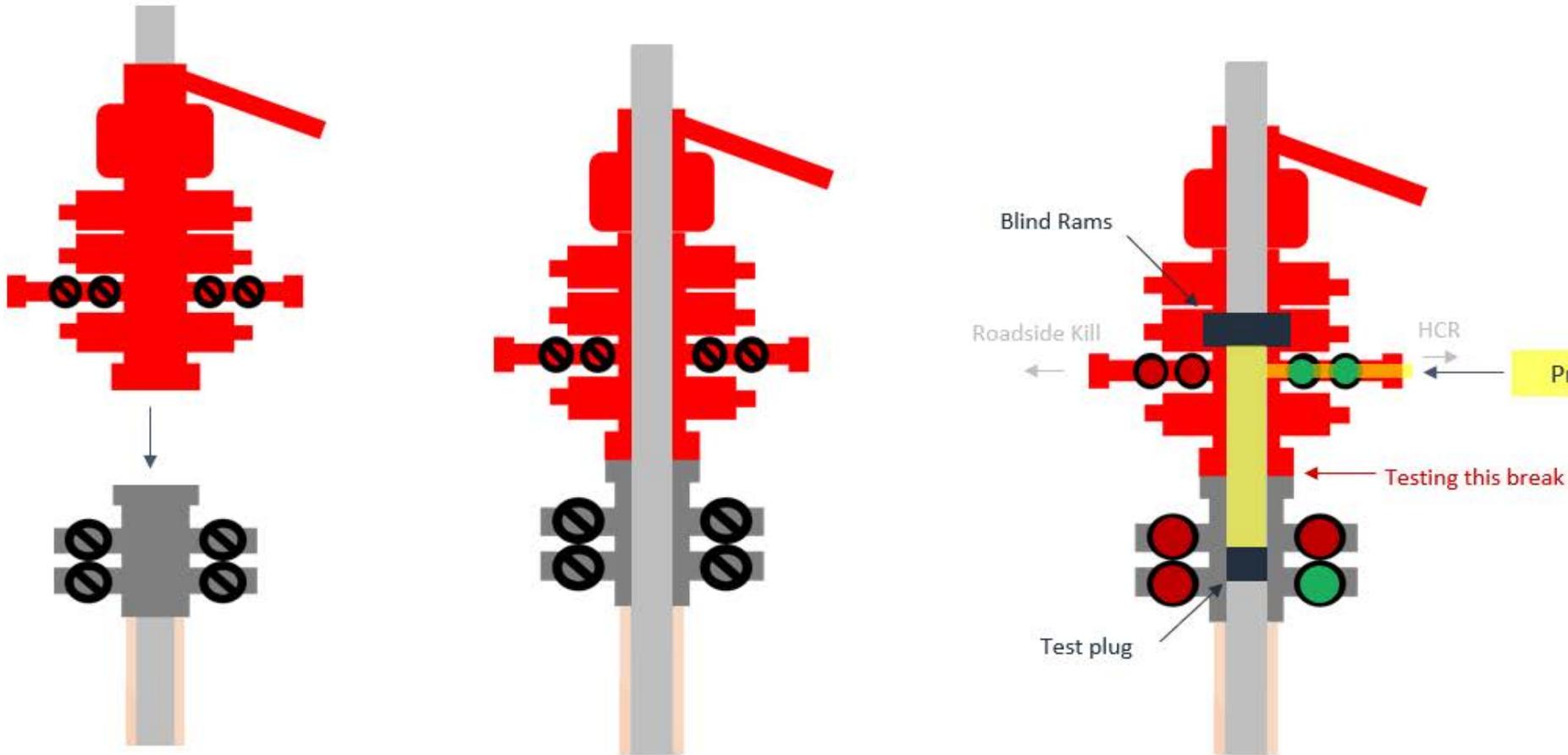


**Break-test BOP & Offline Cementing:**

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
  - Annular ã during each full BOPE test
  - Upper Pipe Rams ã On trip ins where FIT required
  - Blind Rams ã Every trip
  - Lower Pipe Rams ã during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

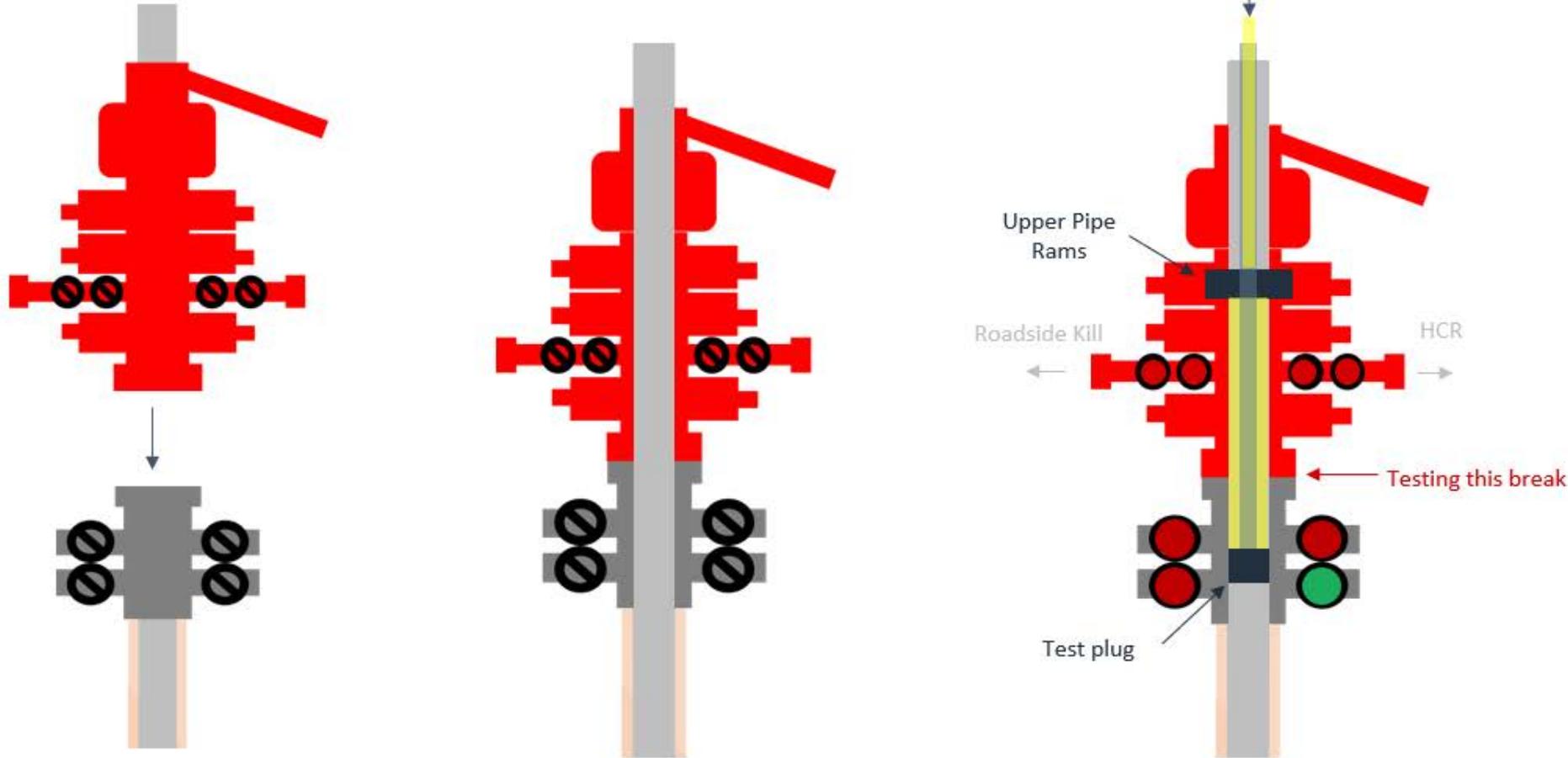
# Break Test Diagram (HCR valve)



## Steps

1. Set plug in wellhead (lower barrier)
2. Close Blind Rams (upper barrier)
3. Close roadside kill
4. Open HCR (pressure application)
5. Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
6. Tie BOP testers high pressure line to main choke manifold crown valve
7. Pressure up to test break
8. Bleed test pressure from BOP testing unit

# Break Test Diagram (Test Joint)



## Steps

1. Set plug in with test joint wellhead (lower barrier)
2. Close Upper Pipe Rams (upper barrier)
3. Close roadside kill
4. Close HCR
5. Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
6. Tie BOP testers high pressure line to top of test joint
7. Pressure up to test break
8. Bleed test pressure from BOP testing unit



## Offline Intermediate Cementing Procedure

2/24/2022

**Cement Program**

1. No changes to the cement program will take place for offline cementing.

**Summarized Operational Procedure for Intermediate Casing**

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
  - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land production casing on mandrel hanger through BOP.
  - a. If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online**.
3. Break circulation and confirm no restrictions.
  - a. Ensure no blockage of float equipment and appropriate annular returns.
  - b. Perform flow check to confirm well is static.
4. Set pack-off
  - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
  - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
  - a. Minimum 4 hrs notice.
6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
  - a. **Note, if any of the barriers fail to test, the BOP stack will not be nipped down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.**
7. Skid/Walk rig off current well.
8. Confirm well is static before removing TA Plug.
  - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
  - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing.
  - c. Well control plan can be seen in Section B, Well Control Procedures.
  - d. If need be, rig can be moved back over well and BOP nipped back up for any further remediation.



Offline Intermediate Cementing Procedure

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- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
9. Rig up return lines to take returns from wellhead to pits and rig choke.
  - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
  - b. If either test fails, perform corrections and retest before proceeding.
  - c. Return line schematics can be seen in Figure 3.
10. Remove TA Plug from the casing.
11. Install offline cement tool.
  - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
12. Rig up cement head and cementing lines.
  - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
13. Break circulation on well to confirm no restrictions.
  - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
  - b. Max anticipated time before circulating with cement truck is 6 hrs.
14. Pump cement job as per plan.
  - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
  - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
15. Confirm well is static and floats are holding after cement job.
  - a. With floats holding and backside static:
    - i. Remove cement head.
  - b. If floats are leaking:
    - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
  - c. If there is flow on the backside:
    - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
16. Remove offline cement tool.
17. Install night cap with pressure gauge for monitoring.
18. Test night cap to 5,000 psi for 10 min.



Offline Intermediate Cementing Procedure

2/24/2022

## Example Well Control Plan Content

### A. Well Control Component Table

The table below, which covers the cementing of the **5M MASP (Maximum Allowable Surface Pressure) portion of the well**, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nipped up to the wellhead.

Intermediate hole section, 5M requirement

| Component                | RWP |
|--------------------------|-----|
| Pack-off                 | 10M |
| Casing Wellhead Valves   | 10M |
| Annular Wellhead Valves  | 5M  |
| TA Plug                  | 10M |
| Float Valves             | 5M  |
| 2" 1502 Lo-Torque Valves | 15M |

### B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

#### General Procedure While Circulating

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.

Page | 3



Offline Intermediate Cementing Procedure

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6. Read and record the following:
  - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
  - b. Pit gain
  - c. Time
  - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.
6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.
7. Continue to place cement until plug bumps.
8. At plug bump close rig choke and cement head.
9. Read and record the following
  - a. SICP and AP
  - b. Pit gain
  - c. Time
  - d. Shut-in annulus valves on wellhead

General Procedure After Cementing

1. Sound alarm (alert crew).
2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
3. Confirm shut-in.
4. Notify tool pusher/company representative.
5. Read and record the following:
  - a. SICP and AP
  - b. Pit gain
  - c. Time
  - d. Shut-in annulus valves on wellhead



Figure 1: Cameron TA Plug and Offline Adapter Schematic

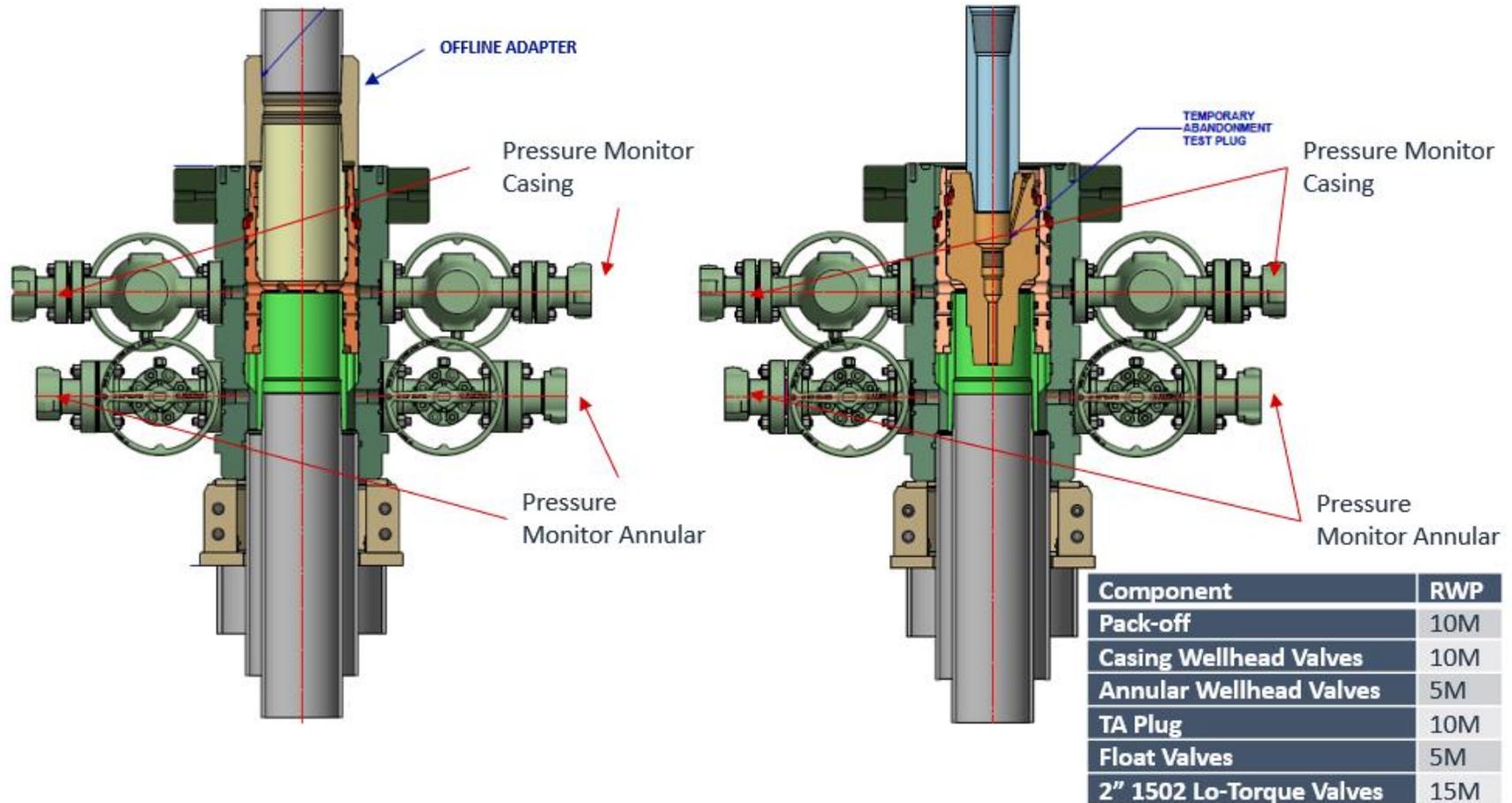
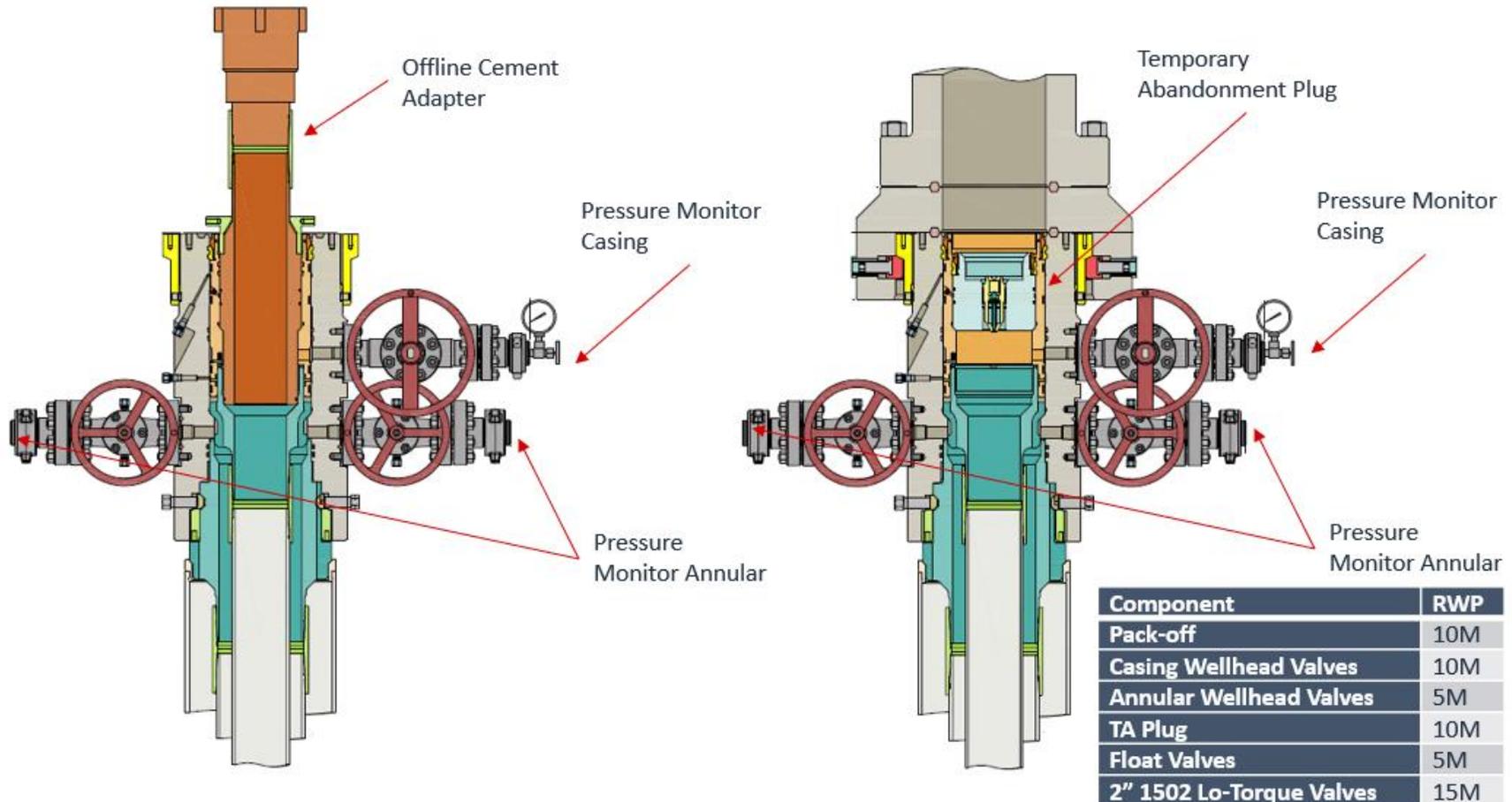




Figure 2: Cactus TA Plug and Offline Adapter Schematic

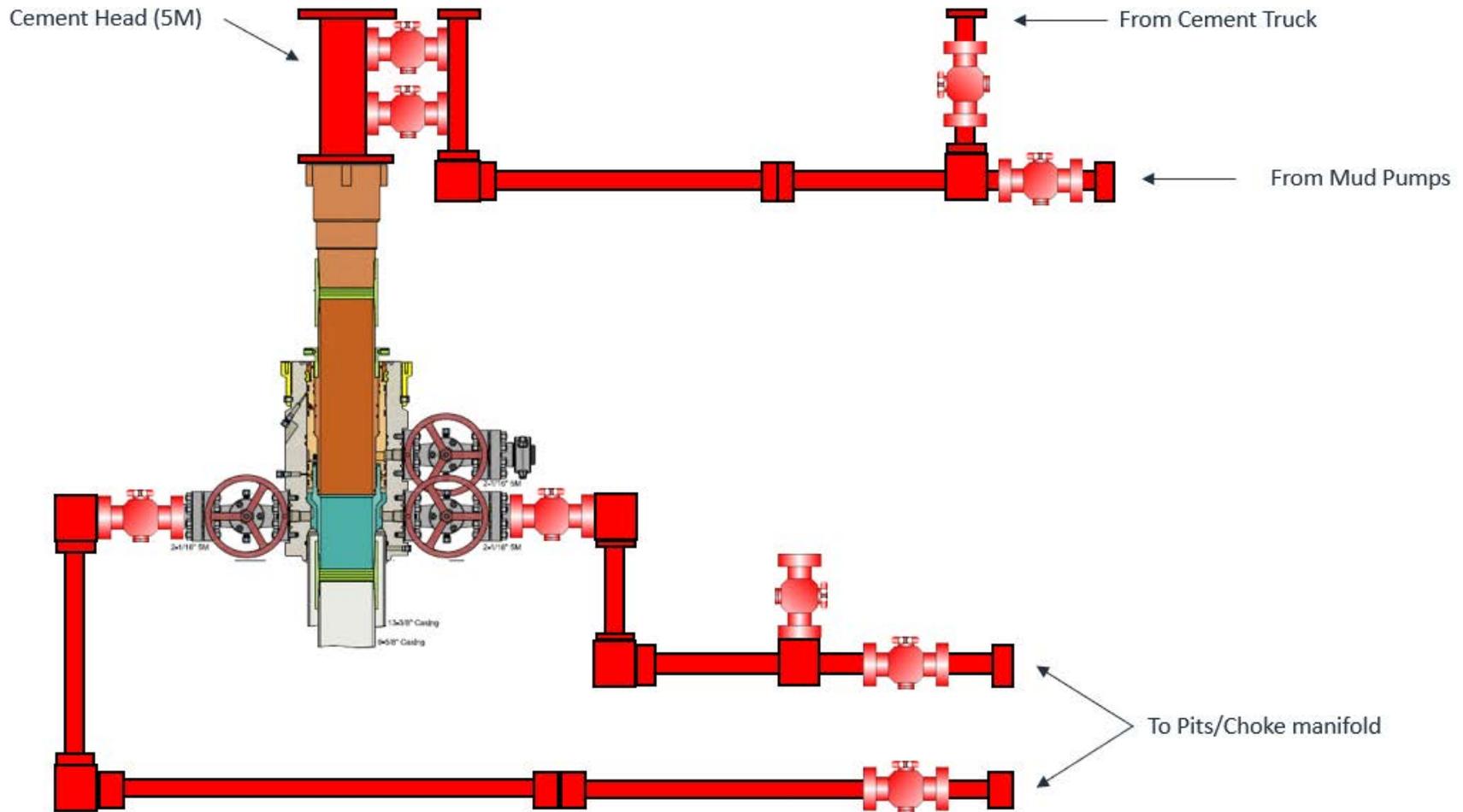




Offline Intermediate Cementing Procedure

2/24/2022

Figure 3: Back Yard Rig Up



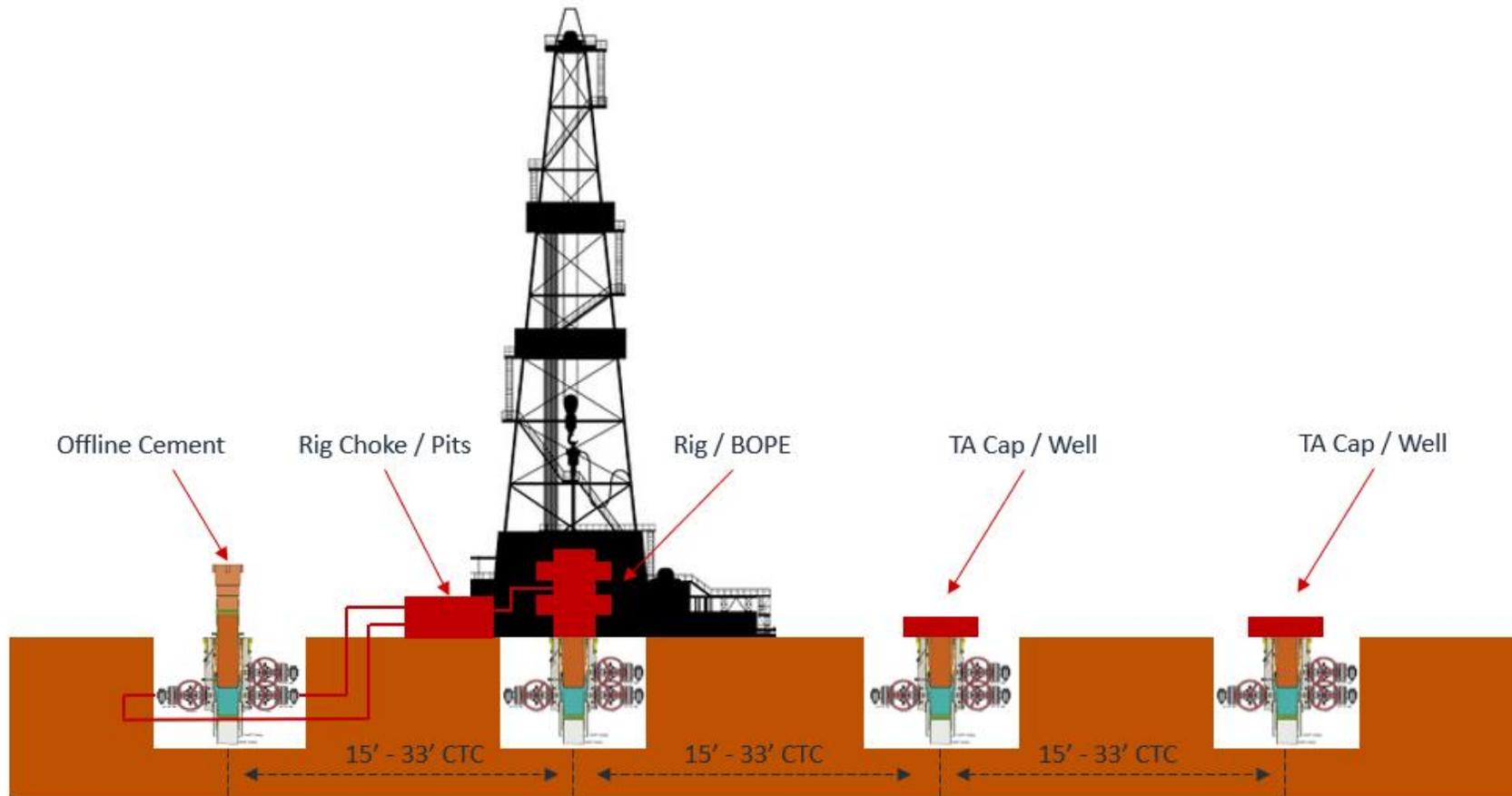
\*\*\* All Lines 10M rated working pressure



Offline Intermediate Cementing Procedure

2/24/2022

Figure 4: Rig Placement Diagram



**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 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 320546

**CONDITIONS**

|   |  |
|---|--|
| Operator:<br>EOG RESOURCES INC<br>5509 Champions Drive<br>Midland, TX 79706 | OGRID:<br>7377                                       |
|   | Action Number:<br>320546                             |
|   | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**CONDITIONS**

| Created By  | Condition  | Condition Date |
|-------------|--|----------------|
| ward.rikala | All original COA's still apply. Additionally, if cement is not circulated during cementing operations, then a CBL is required. | 3/6/2024       |