

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

| |
|--------------------------------------|
| 5. Lease Serial No. |
| 6. If Indian, Allottee or Tribe Name |

SUBMIT IN TRIPLICATE - Other instructions on page 2

| | | |
|---|-----------------------------------|---|
| 1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 7. If Unit of CA/Agreement, Name and/or No. |
| 2. Name of Operator | | 8. Well Name and No. |
| 3a. Address | 3b. Phone No. (include area code) | 9. API Well No. |
| 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) | | 10. Field and Pool or Exploratory Area |
| | | 11. Country or Parish, State |

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|--|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

| | |
|---|-------|
| 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) | Title |
| Signature | Date |

THE SPACE FOR FEDERAL OR STATE OFFICE USE

| | | |
|---|-------|--------|
| Approved by | Title | Date |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | | Office |

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.

(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, 3162.3-3, 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

Additional Information

Location of Well

0. SHL: TR N / 1002 FSL / 1379 FWL / TWSP: 23 / RANGE: 33 / SECTION: 14 / LAT: 32.3001912 / LONG: -103.5472113 (TVD: 0 feet, MD: 0 feet)

PPP: TR 0 / 0 / 0 / TWSP: 23 / RANGE: 33 / SECTION: 14 / LAT: 32.2977239 / LONG: -103.5506067 (TVD: 12450 feet, MD: 12892 feet)

BHL: TR D / 100 FNL / 330 FWL / TWSP: 23 / RANGE: 33 / SECTION: 14 / LAT: 32.3262257 / LONG: -103.5506166 (TVD: 12384 feet, MD: 22513 feet)

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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|-----------------------------------|---|--|
| API Number 30-025-53209 | Pool Code í Fí € | Pool Name Ó^ Ásá^LÁ [&eac [ÉP :@ |
| Property Code HFFÍ J | Property Name DRIVER 14 FED COM | Well Number 705H |
| OGRID No. 7377 | Operator Name EOG RESOURCES, INC. | Elevation 3678' |

Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N | 14 | 23-S | 33-E | - | 1002' | SOUTH | 1469' | WEST | LEA |

Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D | 11 | 23-S | 33-E | - | 100' | NORTH | 330' | WEST | LEA |

| | | | |
|-----------------------------------|-----------------|-------------------|---|
| Dedicated Acres 1280.00 | Joint or Infill | Consolidated Code | Order No. PENDING COM AGREEMENT |
|-----------------------------------|-----------------|-------------------|---|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=784322 Y=473833
LAT.: N 32.3001894
LONG.: W103.5469201
NAD 1927
X=743139 Y=473773
LAT.: 32.3000657
LONG.: 103.5464393
1002' FSL 1469' FWL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=783190 Y=472877
LAT.: N 32.2975864
LONG.: W 103.5506067
NAD 1927
X=742006 Y=472818
LAT.: N 32.2974627
LONG.: W 103.5501259
50' FSL 330' FWL

UPPER MOST PERF. (UMP)
NEW MEXICO EAST
NAD 1983
X=783189 Y=472927
LAT.: N 32.2977239
LONG.: W 103.5506067
NAD 1927
X=742006 Y=472868
LAT.: N 32.2976002
LONG.: W 103.5501259
100' FSL 330' FWL

PENDING COM AGREEMENT

**LOWER MOST PERF. (LMP)
BOTTOM HOLE LOCATION (BHL)**
NEW MEXICO EAST
NAD 1983
X=783111 Y=483296
LAT.: N 32.3262257
LONG.: W 103.5506166
NAD 1927
X=741927 Y=483236
LAT.: N 32.3261020
LONG.: W 103.5501349
100' FNL 330' FWL

OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: _____ Date: _____
Print Name: **Ósá^LÁ [|&eac [ÉP | :@**
E-mail Address: _____

SURVEYORS CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
05/07/2024
Date of Survey
Signature and Seal of Professional Surveyor:

7/17/2024 8:54:52 AM



DRIVER 14 FED COM 705H

Revised Permit Information 05/01/2024:

Well Name: DRIVER 14 FED COM 705H

Location: SHL: 1002' FSL & 1469' FWL, Section 14, T-23-S, R-33-E, LEA Co., N.M.

BHL: 100' FNL & 330' FWL, Section 11, T-23-S, R-33-E, LEA Co., N.M.

CASING PROGRAM:

| Hole Size | Interval MD | | Interval TVD | | Csg OD | Weight | Grade | Conn |
|-----------|-------------|---------|--------------|---------|--------|--------|----------|---------------|
| | From (ft) | To (ft) | From (ft) | To (ft) | | | | |
| 12-1/4" | 0 | 1,500 | 0 | 1,500 | 9-5/8" | 36# | J-55 | LTC |
| 8-3/4" | 0 | 11,433 | 0 | 11,310 | 7-5/8" | 29.7# | ICYP-110 | MO FXL |
| 6-3/4" | 0 | 10,921 | 0 | 10,810 | 5-1/2" | 20# | P110-EC | DWC/C IS MS |
| 6-3/4" | 10,921 | 11,433 | 10,810 | 11,310 | 5-1/2" | 20# | P110-EC | VAM Sprint SF |
| 6-3/4" | 11,433 | 22,754 | 11,310 | 12,384 | 5-1/2" | 20# | P110-EC | DWC/C IS MS |

Variance is requested to waive the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the production open hole section.

CEMENTING PROGRAM:

| Depth | No. Sacks | Wt. ppg | Yld Ft3/sk | Slurry Description |
|-------------------|-----------|---------|------------|--|
| 1,500' 9-5/8" | 400 | 13.5 | 1.73 | Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface) |
| | 80 | 14.8 | 1.34 | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,300') |
| 11,310' 7-5/8" | 1300 | 14.2 | 1.11 | 1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,380') |
| | 1000 | 14.8 | 1.5 | 2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface) |
| 22,754' 5-1/2" | 2292 | 12.5 | 2.05 | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ Surface) |
| | 2290 | 13.2 | 1.41 | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,808') |

**DRIVER 14 FED COM 705H**

| Additive | Purpose |
|---------------------|---|
| Bentonite Gel | Lightweight/Lost circulation prevention |
| Calcium Chloride | Accelerator |
| Cello-flake | Lost circulation prevention |
| Sodium Metasilicate | Accelerator |
| MagOx | Expansive agent |
| Pre-Mag-M | Expansive agent |
| Sodium Chloride | Accelerator |
| FL-62 | Fluid loss control |
| Halad-344 | Fluid loss control |
| Halad-9 | Fluid loss control |
| HR-601 | Retarder |
| Microbond | Expansive Agent |

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,577') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 100 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

EOG requests a variance to set the intermediate casing shoe in the Bone Spring formation OR the Wolfcamp formation, depending on depletion in the area and well conditions. EOG will monitor the well and ensure the well is static before casing operations begin.

MUD PROGRAM:

| Measured Depth | Type | Weight (ppg) | Viscosity | Water Loss |
|------------------------------|-------------|--------------|-----------|------------|
| 0 – 1,500' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,500' – 11,310' | Brine | 9.0-10.5 | 28-34 | N/c |
| 11,310' – 11,948' | Oil Base | 8.7-9.4 | 58-68 | N/c - 6 |
| 11,948' – 22,754' Lateral | Oil Base | 10.0-14.0 | 58-68 | 4 - 6 |



DRIVER 14 FED COM 705H

EOG requests a variance to set the intermediate casing shoe in the Bone Spring formation OR the Wolfcamp formation, depending on depletion in the area and well conditions. EOG will monitor the well and ensure the well is static before casing operations begin.

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.



DRIVER 14 FED COM 705H

1002' FSL
1469' FWL
Section 14
T-23-S, R-33-E

Revised Wellbore

KB: 3703'
GL: 3678'

API: 30-025-53209

Bit Size: 12-1/4"
9-5/8", 36#, J-55, LTC,
@ 0' - 1,500'

Bit Size: 8-3/4"
7-5/8", 29.7#, ICYP-110, MO FXL,
@ 0' - 11,310'

Bit Size: 6-3/4"
5-1/2", 20.#, P110-EC, DWC/C IS MS
@ 0' - 10,810'
5-1/2", 20.#, P110-EC, VAM Sprint SF
@ 10,810' - 11,310'
5-1/2", 20.#, P110-EC, DWC/C IS MS
@ 11,310' - 22,754'

KOP: 11,948' MD, 11,819' TVD
EOC: 12,918' MD, 12,451' TVD

TOC: 10,433' MD, 10,308' TVD

Lateral: 22,754' MD, 12,384' TVD
Upper Most Perf:
100' FSL & 330' FWL Sec. 14
Lower Most Perf:
100' FNL & 330' FWL Sec. 11
BH Location: 100' FNL & 330' FWL
Sec. 11
T-23-S R-33-E



DRIVER 14 FED COM 705H

Design B**CASING PROGRAM:**

| Hole Size | Interval MD | | Interval TVD | | Csg OD | Weight | Grade | Conn |
|-----------|-------------|---------|--------------|---------|---------|--------|---------|---------------|
| | From (ft) | To (ft) | From (ft) | To (ft) | | | | |
| 13" | 0 | 1,500 | 0 | 1,500 | 10-3/4" | 40.5# | J-55 | STC |
| 9-7/8" | 0 | 11,433 | 0 | 11,308 | 8-3/4" | 38.5# | P110-EC | SLIJ II NA |
| 7-7/8" | 0 | 22,754 | 0 | 12,451 | 6" | 24.5# | P110-EC | VAM Sprint-SF |

Variance is requested to waive the centralizer requirements for the 8-3/4" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 6" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 6" casing by 8-3/4" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the production open hole section.

CEMENTING PROGRAM:

| Depth | No. Sacks | Wt. ppg | Yld Ft ³ /sk | Slurry Description |
|-------------------|-----------|---------|-------------------------|--|
| 1,500' 10-3/4" | 370 | 13.5 | 1.73 | Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface) |
| | 70 | 14.8 | 1.34 | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,300') |
| 11,308' 8-3/4" | 1480 | 14.2 | 1.11 | 1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,377') |
| | 1000 | 14.8 | 1.5 | 2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface) |
| 22,754' 6" | 1670 | 13.2 | 1.31 | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,808') |



DRIVER 14 FED COM 705H

EOG requests variance from minimum standards to pump a two stage cement job on the 8-3/4" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,577') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of -972 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

EOG requests a variance to set the intermediate casing shoe in the Bone Spring formation OR the Wolfcamp formation, depending on depletion in the area and well conditions. EOG will monitor the well and ensure the well is static before casing operations begin.

VARIANCE REQUESTS:

EOG requests the additional variance(s) in the attached document(s):

Variances requested include (supporting documents attached):

- BOP Break Testing for 5M Intermediate Intervals (EOG BLM Variance 3a_b)
- Offline Cementing for Surface and Intermediate Intervals (EOG BLM Variance 3a_b)
- Intermediate Bradenhead Cement (EOG BLM Variance 2a)



DRIVER 14 FED COM 705H

1002' FSL
1469' FWL
Section 14
T-23-S, R-33-E

Proposed Wellbore

KB: 3703'
GL: 3678'

API: 30-025-53209

Bit Size: 13"
10-3/4", 40.5#, J-55, STC,
@ 0' - 1,500'

Bit Size: 9-7/8"
8-3/4" 38.5#, P110-EC, SLIJ II NA,
@ 0' - 11,308'

Bit Size: 7-7/8"
6", 24.5#, P110-EC, VAM Sprint-SF,
@ 0' - 22,754'

KOP: 11,948' MD, 11,819' TVD
EOC: 12,918' MD, 12,451' TVD

TOC: 10,433' MD, 10,308' TVD

Lateral: 22,754' MD, 12,384' TVD
Upper Most Perf:
100' FSL & 330' FWL Sec. 14
Lower Most Perf:
100' FNL & 330' FWL Sec. 11
BH Location: 100' FNL & 330' FWL
Sec. 11
T-23-S R-33-E



DRIVER 14 FED COM 705H

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| | |
|------------------------|---------|
| Rustler | 1,378' |
| Tamarisk Anhydrite | 1,475' |
| Top of Salt | 1,883' |
| Base of Salt | 4,262' |
| Lamar | 5,318' |
| Bell Canyon | 5,362' |
| Cherry Canyon | 6,243' |
| Brushy Canyon | 7,577' |
| Bone Spring Lime | 9,028' |
| Leonard (Avalon) Shale | 9,184' |
| 1st Bone Spring Sand | 10,132' |
| 2nd Bone Spring Shale | 10,382' |
| 2nd Bone Spring Sand | 10,715' |
| 3rd Bone Spring Carb | 11,208' |
| 3rd Bone Spring Sand | 11,738' |
| Wolfcamp | 12,021' |
| TD | 12,384' |

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

| | | |
|------------------------|---------|-------------|
| Upper Permian Sands | 0- 400' | Fresh Water |
| Bell Canyon | 5,362' | Oil |
| Cherry Canyon | 6,243' | Oil |
| Brushy Canyon | 7,577' | Oil |
| Leonard (Avalon) Shale | 9,184' | Oil |
| 1st Bone Spring Sand | 10,132' | Oil |
| 2nd Bone Spring Shale | 10,382' | Oil |
| 2nd Bone Spring Sand | 10,715' | Oil |



EOG Batch Casing

Pad Name: Driver 14 Fed Com Deep

SHL: Section 14, Township 23-S, Range 33-E, LEA County, NM

| Well Name | API # | Surface | | Intermediate | | Production | |
|------------------------------------|--------------|---------|-------|--------------|--------|------------|--------|
| | | MD | TVD | MD | TVD | MD | TVD |
| DRIVER 14 FED COM #705H | 30-025-53209 | 1,500 | 1,500 | 11,433 | 11,308 | 22,754 | 12,384 |
| DRIVER 14 FED COM #706H (FKA 602H) | 30-025-52923 | 1,500 | 1,500 | 11,395 | 11,308 | 22,464 | 12,169 |
| DRIVER 14 FED COM #707H (FKA 603H) | 30-025-52924 | 1,500 | 1,500 | 11,661 | 11,308 | 22,686 | 12,169 |
| DRIVER 14 FED COM #708H (FKA 604H) | 30-025-52929 | 1,500 | 1,500 | 11,429 | 11,308 | 22,493 | 12,169 |
| DRIVER 14 FED COM #709H (FKA 605H) | 30-025-52944 | 1,500 | 1,500 | 11,509 | 11,308 | 22,561 | 12,169 |
| DRIVER 14 FED COM #711H (FKA 701H) | 30-025-52925 | 1,500 | 1,500 | 11,421 | 11,308 | 22,528 | 12,208 |
| DRIVER 14 FED COM #712H (FKA 702H) | 30-025-52926 | 1,500 | 1,500 | 11,426 | 11,308 | 22,531 | 12,208 |
| DRIVER 14 FED COM #713H (FKA 703H) | 30-025-52927 | 1,500 | 1,500 | 11,501 | 11,308 | 22,595 | 12,208 |
| DRIVER 14 FED COM #714H (FKA 704H) | 30-025-52928 | 1,500 | 1,500 | 11,426 | 11,308 | 22,528 | 12,208 |



EOG Batch Casing

Variations

EOG requests the additional variance(s) in the attached document(s):

- EOG BLM Variance 2a - Intermediate Bradenhead Cement
- EOG BLM Variance 3a_b - BOP Break-test and Offline Intermediate Cement



EOG Batch Casing

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| | |
|------------------------|---------|
| Rustler | 1,378' |
| Tamarisk Anhydrite | 1,475' |
| Top of Salt | 1,883' |
| Base of Salt | 4,262' |
| Lamar | 5,318' |
| Bell Canyon | 5,362' |
| Cherry Canyon | 6,243' |
| Brushy Canyon | 7,577' |
| Bone Spring Lime | 9,028' |
| Leonard (Avalon) Shale | 9,184' |
| 1st Bone Spring Sand | 10,132' |
| 2nd Bone Spring Shale | 10,382' |
| 2nd Bone Spring Sand | 10,715' |
| 3rd Bone Spring Carb | 11,208' |
| 3rd Bone Spring Sand | 11,738' |
| Wolfcamp | 12,021' |

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

| | | |
|------------------------|---------|-------------|
| Upper Permian Sands | 0- 400' | Fresh Water |
| Bell Canyon | 5,362' | Oil |
| Cherry Canyon | 6,243' | Oil |
| Brushy Canyon | 7,577' | Oil |
| Leonard (Avalon) Shale | 9,184' | Oil |
| 1st Bone Spring Sand | 10,132' | Oil |
| 2nd Bone Spring Shale | 10,382' | Oil |
| 2nd Bone Spring Sand | 10,715' | Oil |

NO OTHER FORMATIONS ARE EXPECTED TO GIVE UP OIL, GAS OR FRESH WATER IN MEASURABLE QUANTITIES. SURFACE FRESH WATER SANDS WILL BE PROTECTED BY SETTING SURFACE CASING AT 1,500' AND CIRCULATING CEMENT BACK TO SURFACE.



DRIVER 14 FED COM 705H API #: 30-025-53209 Variances

EOG respectfully requests the below variances to be applied to the above well:

- Variance is requested to waive the centralizer requirements for the intermediate casing in the intermediate hole. An expansion additive will be utilized, in the cement slurry, for the entire length of the intermediate interval to maximize cement bond and zonal isolation.

- Variance is also requested to waive the centralizer requirements for the production casing in the production hole. An expansion additive will be utilized, in the cement slurry, for the entire length of the production interval to maximize cement bond and zonal isolation.

- EOG requests a variance to set the intermediate casing shoe in the Bone Spring formation or the Wolfcamp formation, depending on depletion in the area and well conditions. EOG will monitor the well and ensure the well is static before casing operations begin.

- Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

- Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

- EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1,500 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

EOG requests the additional variance(s) in the attached document(s):

- EOG BLM Variance 2a - Intermediate Bradenhead Cement
- EOG BLM Variance 3a_b - BOP Break-test and Offline Intermediate Cement



Intermediate Bradenhead Cement:

EOG requests variance from minimum standards to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

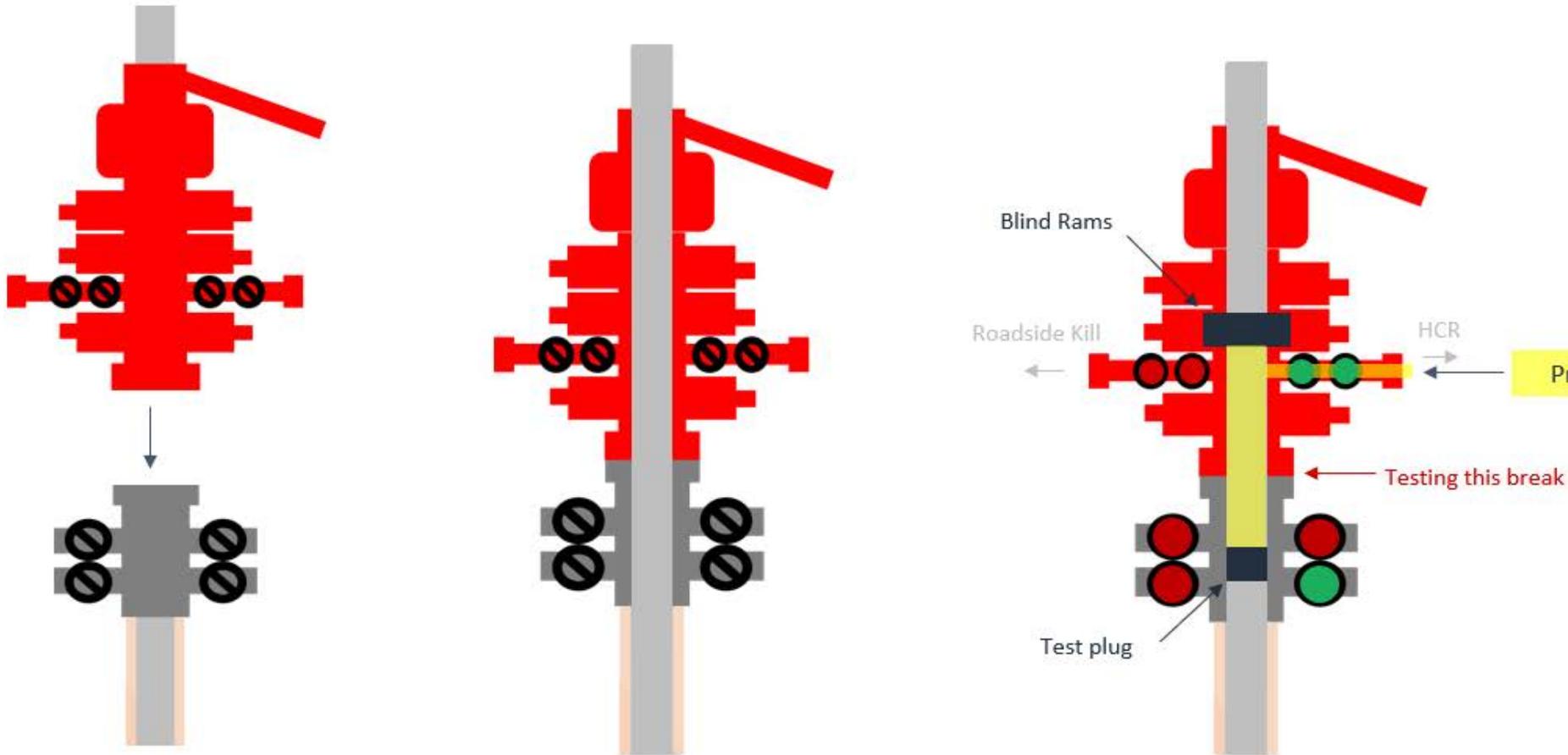


Break-test BOP & Offline Cementing:

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.

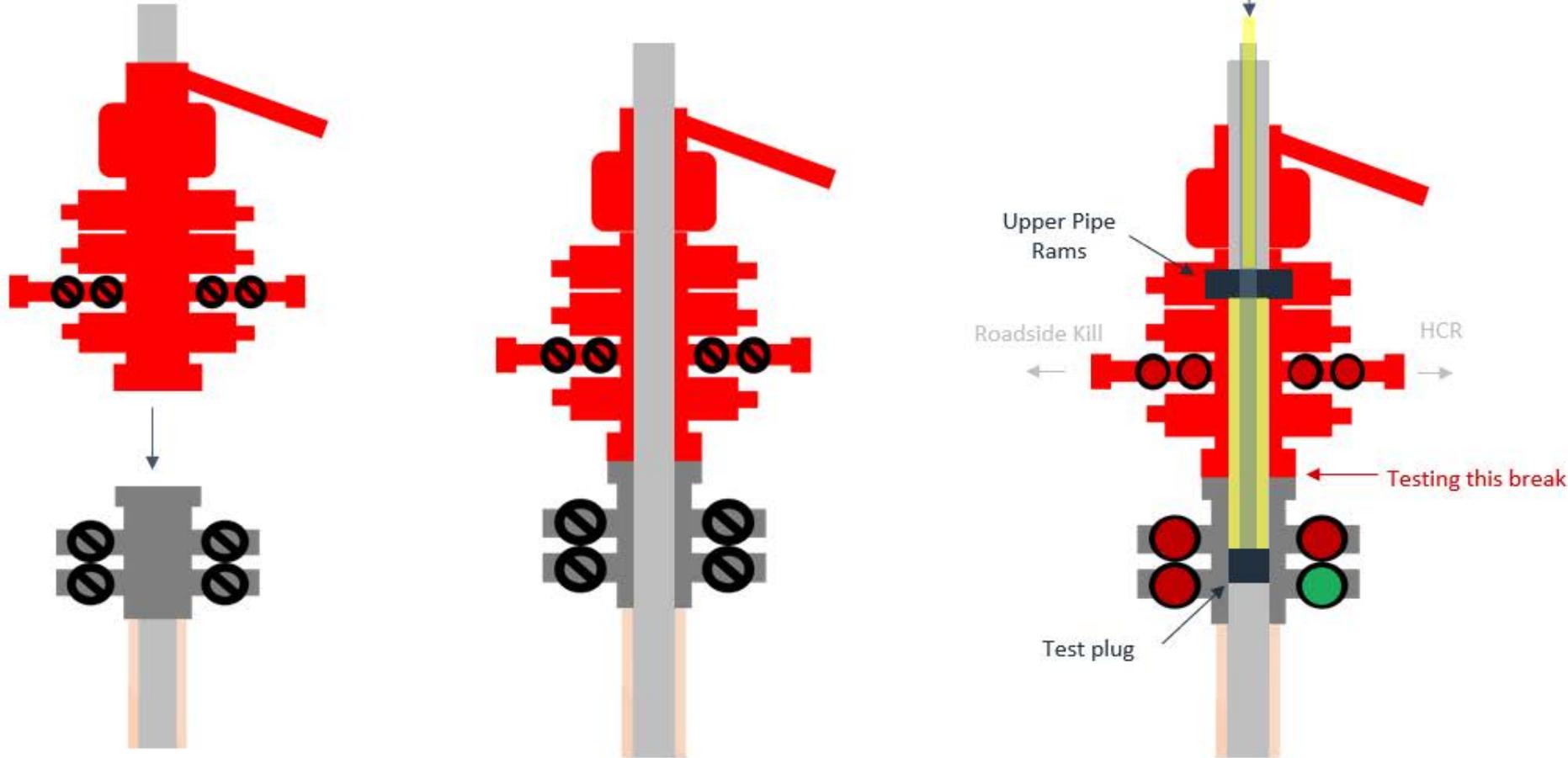
Break Test Diagram (HCR valve)



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

2/24/2022

- 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

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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.

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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

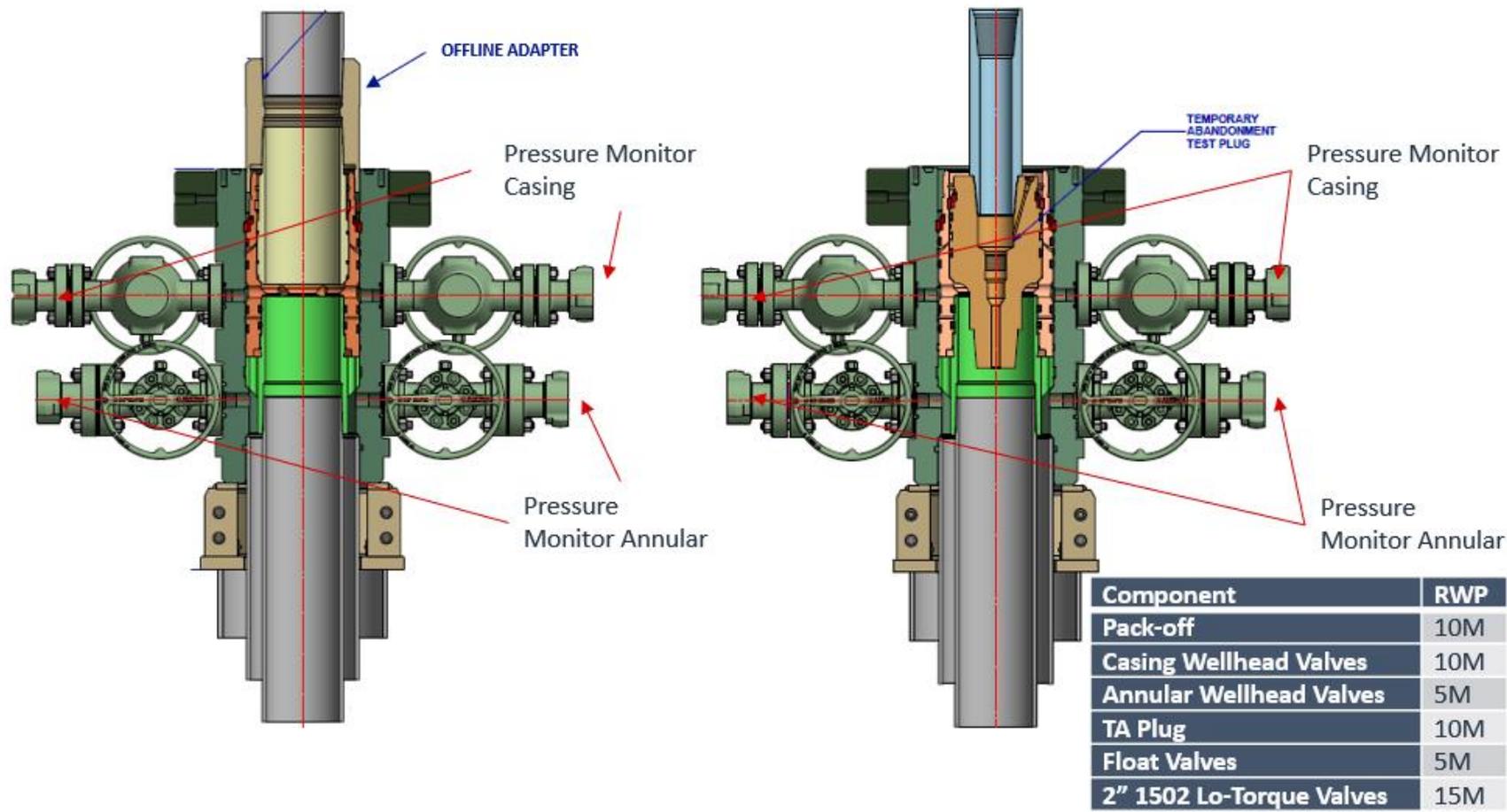
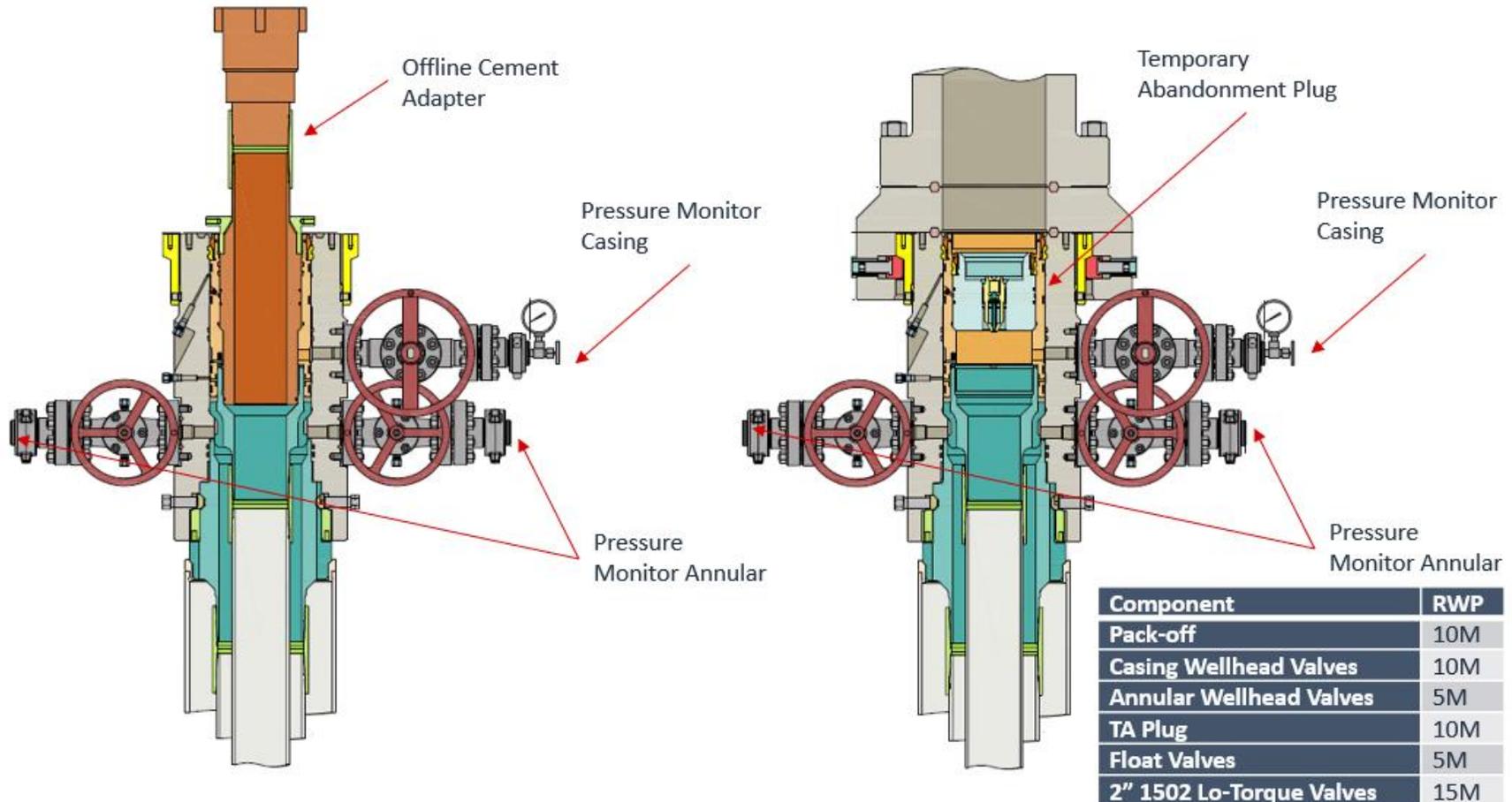




Figure 2: Cactus TA Plug and Offline Adapter Schematic

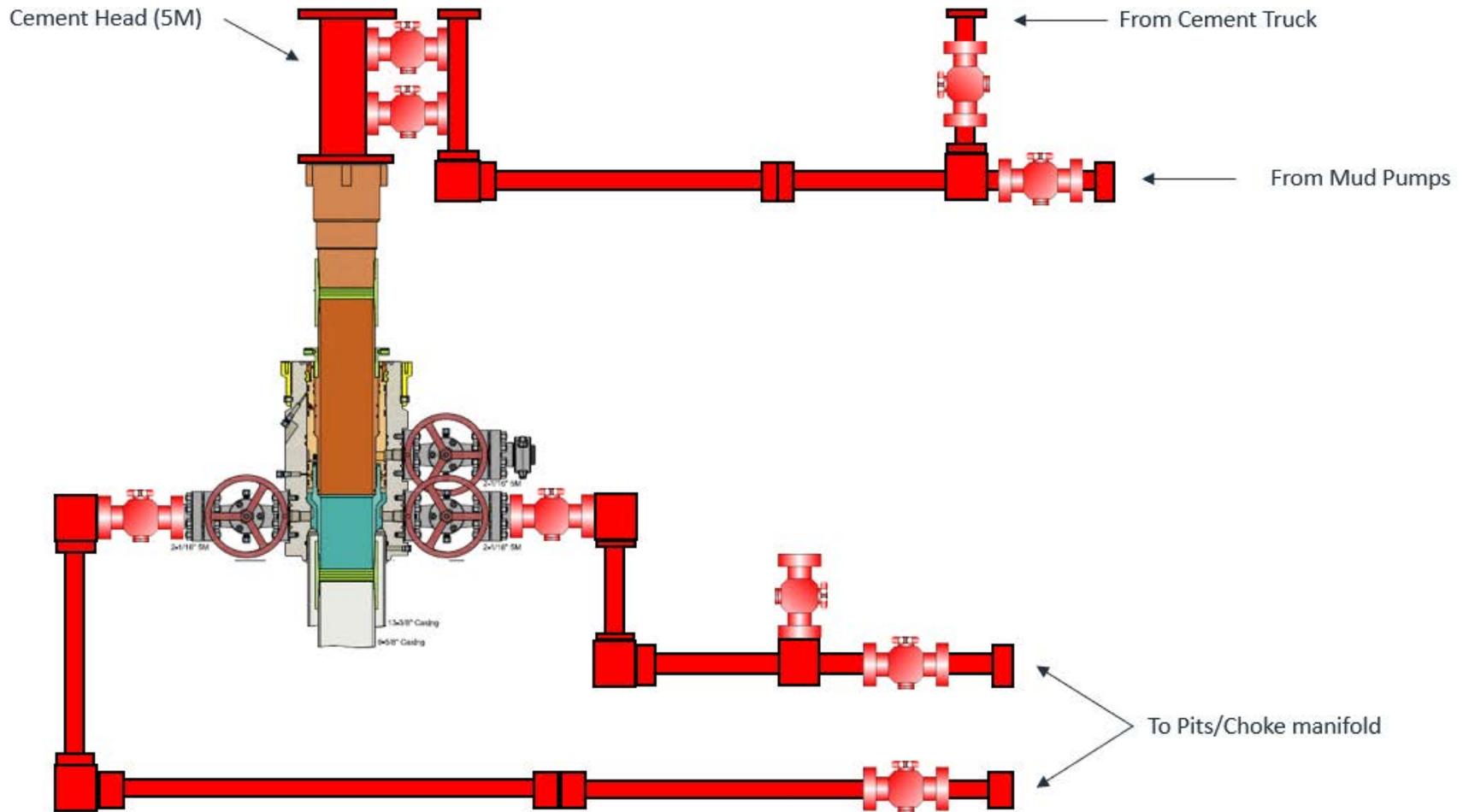




Offline Intermediate Cementing Procedure

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Figure 3: Back Yard Rig Up



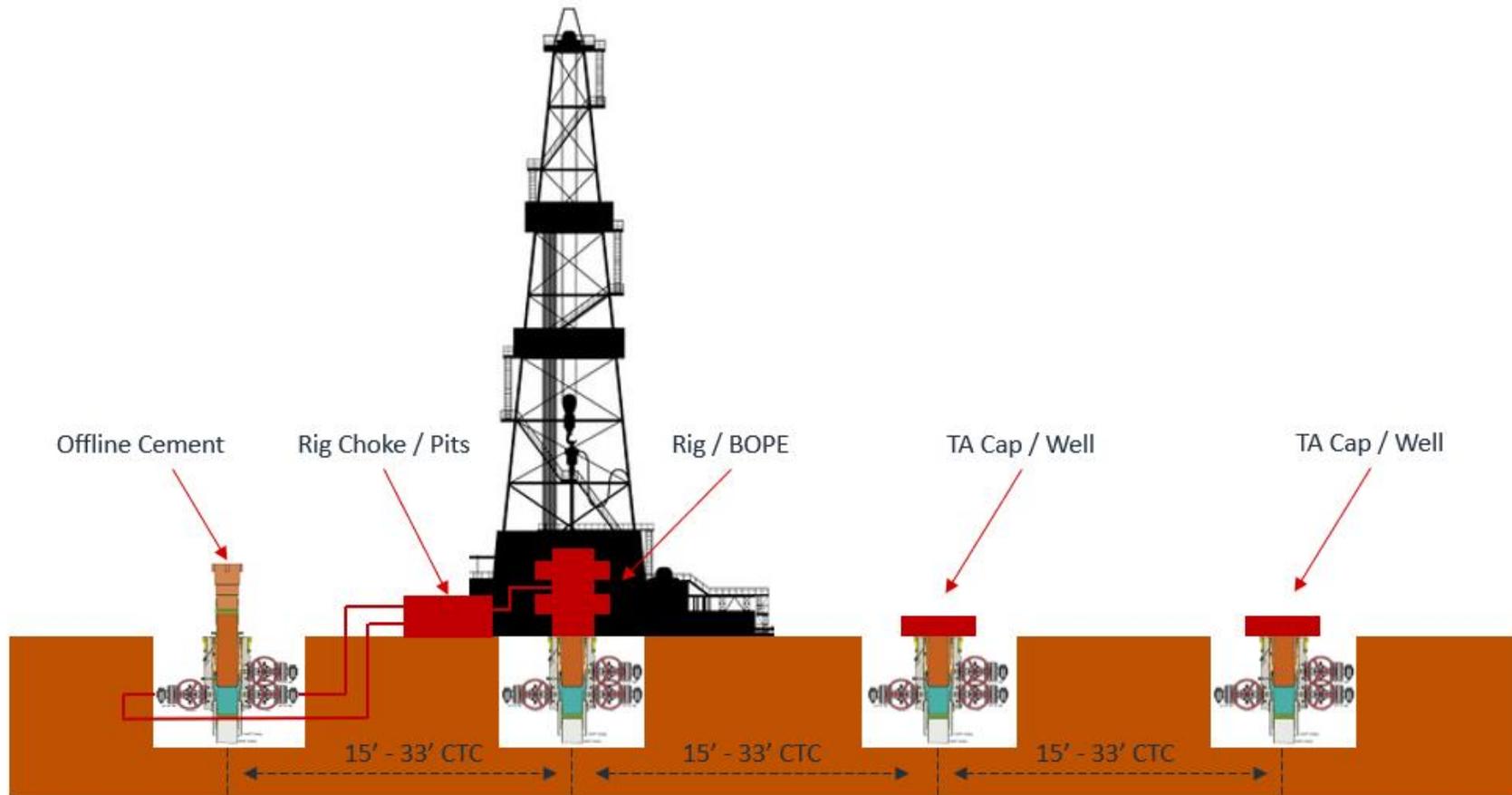
*** All Lines 10M rated working pressure



Offline Intermediate Cementing Procedure

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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 368721

CONDITIONS

| | |
|---|--|
| Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706 | OGRID: 7377 |
| | Action Number: 368721 |
| | Action Type: [C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| pkautz | None | 7/31/2024 |