

Form 3160-5  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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. **MULTIPLE**6. If Indian, Allottee or Tribe Name  
**MULTIPLE****SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **EOG RESOURCES INCORPORATED**3a. Address **1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77001** 3b. Phone No. (include area code)  
**(713) 651-7000**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**MULTIPLE**7. If Unit of CA/Agreement, Name and/or No.  
**MULTIPLE**8. Well Name and No. **MULTIPLE**9. API Well No. **MULTIPLE**10. Field and Pool or Exploratory Area  
**MULTIPLE**11. Country or Parish, State  
**MULTIPLE****12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |                                               |                                                    |                                           |  |
|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|--|
| <input checked="" 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 checked="" 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 recompleat 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 recompleat 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 detennined that the site is ready for final inspection.)

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.

Adding secondary casing design: 13.5"x9.875"x7.875"x6.75" hole; 10.75"x8.75"x5.5" casing

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
**STAR HARRELL / Ph: (432) 848-9161**

Title **Regulatory Specialist**

Signature

Date

**08/17/2022**

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

**KEITH P IMMATTY / Ph: (575) 988-4722 / Approved**

Title **ENGINEER**

Date **09/07/2022**

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 **CARLSBAD**

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

### Batch Well Data

YUKON 20 FED COM 507H, US Well Number: 3002550352, Case Number: NMNM17241, Lease Number: NMNM17241,  
Operator:EOG RESOURCES INCORPORATED

YUKON 20 FED COM 508H, US Well Number: 3002550351, Case Number: NMNM17241, Lease Number: NMNM17241,  
Operator:EOG RESOURCES INCORPORATED

YUKON 20 FED COM 510H, US Well Number: 3002550347, Case Number: NMNM17241, Lease Number: NMNM17241,  
Operator:EOG RESOURCES INCORPORATED

YUKON 20 FED COM 509H, US Well Number: 3002550348, Case Number: NMNM17241, Lease Number: NMNM17241,  
Operator:EOG RESOURCES INCORPORATED

CONFIDENTIAL



**Yukon 20 Fed Com 507H, 508H, 509H, 510H  
Revised Permit Information 07/28/2022:**

**Primary Casing Program:**

| Hole Size | Interval MD<br>From (ft) To (ft) |        | Interval TVD<br>From (ft) To (ft) |        | Csg OD  | Weight | Grade   | Conn |
|-----------|----------------------------------|--------|-----------------------------------|--------|---------|--------|---------|------|
| 16"       | 0                                | 1,320  | 0                                 | 1,320  | 13-3/8" | 54.5#  | J-55    | STC  |
| 12-1/4"   | 0                                | 4,173  | 0                                 | 4,000  | 9-5/8"  | 40#    | J-55    | LTC  |
| 12-1/4"   | 4,173                            | 5,393  | 4,000                             | 5,220  | 9-5/8"  | 40#    | HCK-55  | LTC  |
| 7-7/8"    | 0                                | 21,160 | 0                                 | 10,768 | 5-1/2"  | 17#    | HCP-110 | LTC  |

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" 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 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.

**Cementing Program:**

| Depth             | No. Sacks | Wt. ppg | Yld Ft3/sk | Slurry Description                                                                                                                 |
|-------------------|-----------|---------|------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1,320'<br>13-3/8" | 400       | 13.5    | 1.73       | Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)                               |
|                   | 100       | 14.8    | 1.34       | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,120')                                      |
| 5,220'<br>9-5/8"  | 760       | 12.7    | 2.22       | Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)                                                             |
|                   | 330       | 14.8    | 1.32       | Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,180')                                                                                 |
| 21,160'<br>5-1/2" | 1120      | 11.0    | 3.21       | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,720')                                                        |
|                   | 2770      | 13.2    | 1.52       | Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 10480') |



### Yukon 20 Fed Com 507H, 508H, 509H, 510H

| 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                         |

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

#### Mud Program:

| Depth (TVD)      | Type        | Weight (ppg) | Viscosity | Water Loss |
|------------------|-------------|--------------|-----------|------------|
| 0 – 1,320'       | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,320' – 5,220'  | Brine       | 8.6-8.8      | 28-34     | N/c        |
| 5,220' – 21,160' | Oil Base    | 8.8-9.5      | 58-68     | N/c - 6    |

#### Wellhead & Offline Cementing:

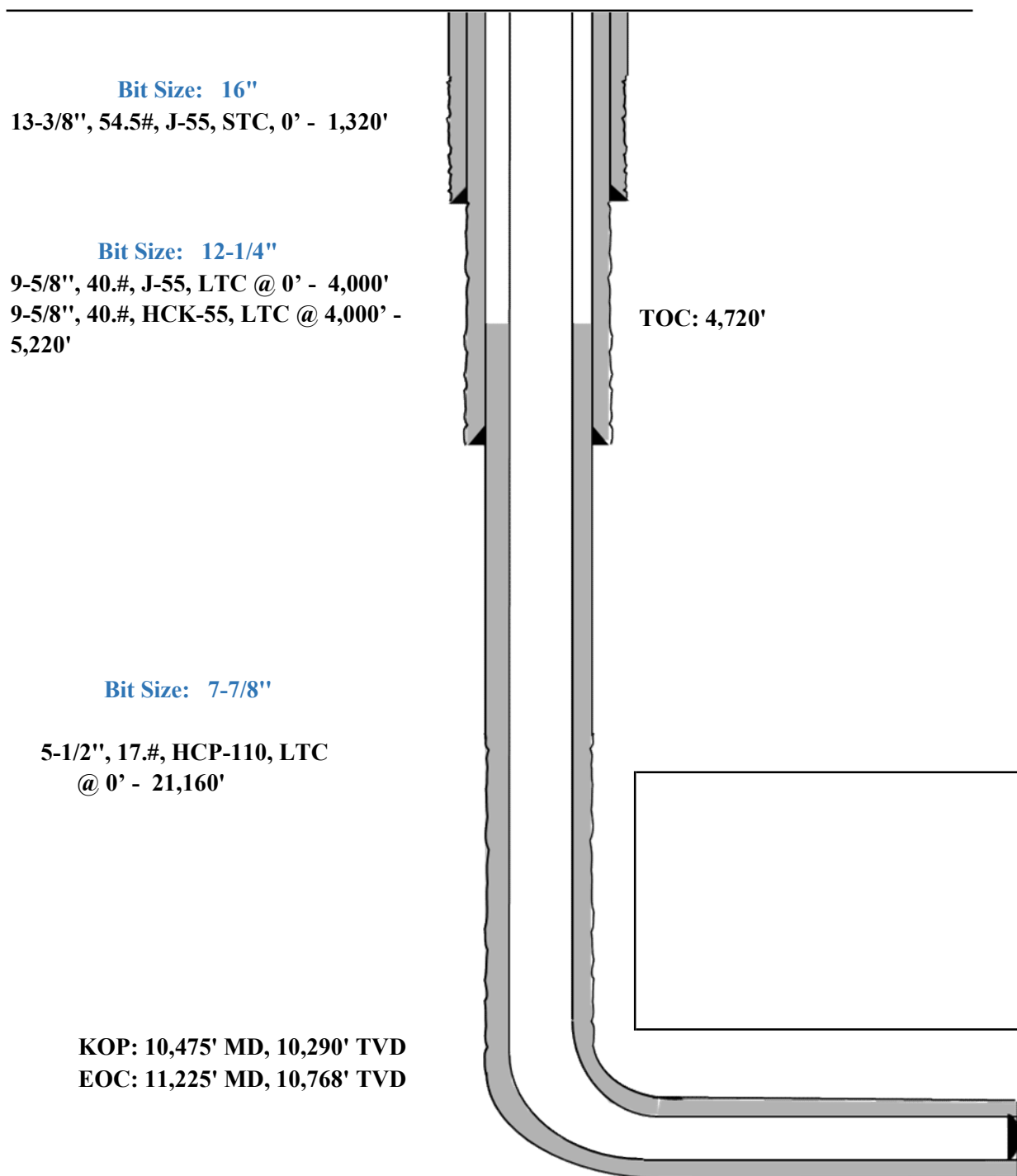
EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- 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.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



Yukon 20 Fed Com 507H, 508H, 509H, 510H

Revised Wellbore





# Yukon 20 Fed Com 507H, 508H, 509H, 510H

## Revised Permit Information 07/25/2022:

Well Name: Yukon 20 Fed Com 510H

Location: SHL: & , Section 20, T-24-S, R-34-E, Lea Co., N.M.

BHL: & , Section 29, T-24-S, R-34-E, Lea Co., N.M.

## Backup Casing Program:

| Hole Size | Interval MD |         | Interval TVD |         | Csg OD  | Weight | Grade   | Conn          |
|-----------|-------------|---------|--------------|---------|---------|--------|---------|---------------|
|           | From (ft)   | To (ft) | From (ft)    | To (ft) |         |        |         |               |
| 13-1/2"   | 0           | 1,320   | 0            | 1,320   | 10-3/4" | 40.5#  | J-55    | STC           |
| 9-7/8"    | 0           | 5,393   | 0            | 5,220   | 8-3/4"  | 38.5#  | P110-EC | Vam Sprint-SF |
| 7-7/8"    | 0           | 10,648  | 0            | 10,475  | 5-1/2"  | 17#    | HCP-110 | LTC           |
| 6-3/4"    | 0           | 21,160  | 0            | 10,768  | 5-1/2"  | 17#    | HCP-110 | LTC           |

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 5-1/2" casing in the 6-3/4" & 7-7/8" hole sizes. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" & 7-7/8" hole intervals to maximize cement bond and zonal isolation.

## Cementing Program:

| Depth             | No. Sacks | Wt. ppg | Yld Ft3/sk | Slurry Description                                                                                                                 |
|-------------------|-----------|---------|------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1,320'<br>10-3/4" | 380       | 13.5    | 1.73       | Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)                               |
|                   | 90        | 14.8    | 1.34       | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,120')                                      |
| 5,220'<br>8-3/4"  | 290       | 12.7    | 2.22       | Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)                                                             |
|                   | 190       | 14.8    | 1.32       | Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,180')                                                                                 |
| 21,160'<br>5-1/2" | 670       | 11.0    | 3.21       | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,720')                                                        |
|                   | 2770      | 13.2    | 1.52       | Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 10480') |



### Yukon 20 Fed Com 510H

| 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                         |

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

#### Mud Program:

| Depth (TVD)      | Type        | Weight (ppg) | Viscosity | Water Loss |
|------------------|-------------|--------------|-----------|------------|
| 0 – 1,320'       | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,320' – 5,220'  | Brine       | 8.6-8.8      | 28-34     | N/c        |
| 5,220' – 21,160' | Oil Base    | 8.8-9.5      | 58-68     | N/c - 6    |

#### Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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:

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- Function test BOP elements per Onshore Order No. 2.
- 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.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



## Yukon 20 Fed Com 507H, 508H, 509H, 510H

Revised Wellbore

KB: 3562'

GL: 3537'

Section 20

T-24-S, R-34-E

API: 30-025-\*\*\*\*\*

**Bit Size: 13-1/2"**

10-3/4", 40.5#, J-55, STC

@ 0' - 1,320'

**Bit Size: 9-7/8"**

8-3/4", 38.5#, P110-EC, Vam Sprint-SF

@ 0' - 5,220'

TOC: 4,720'

**Bit Size: 7-7/8"**

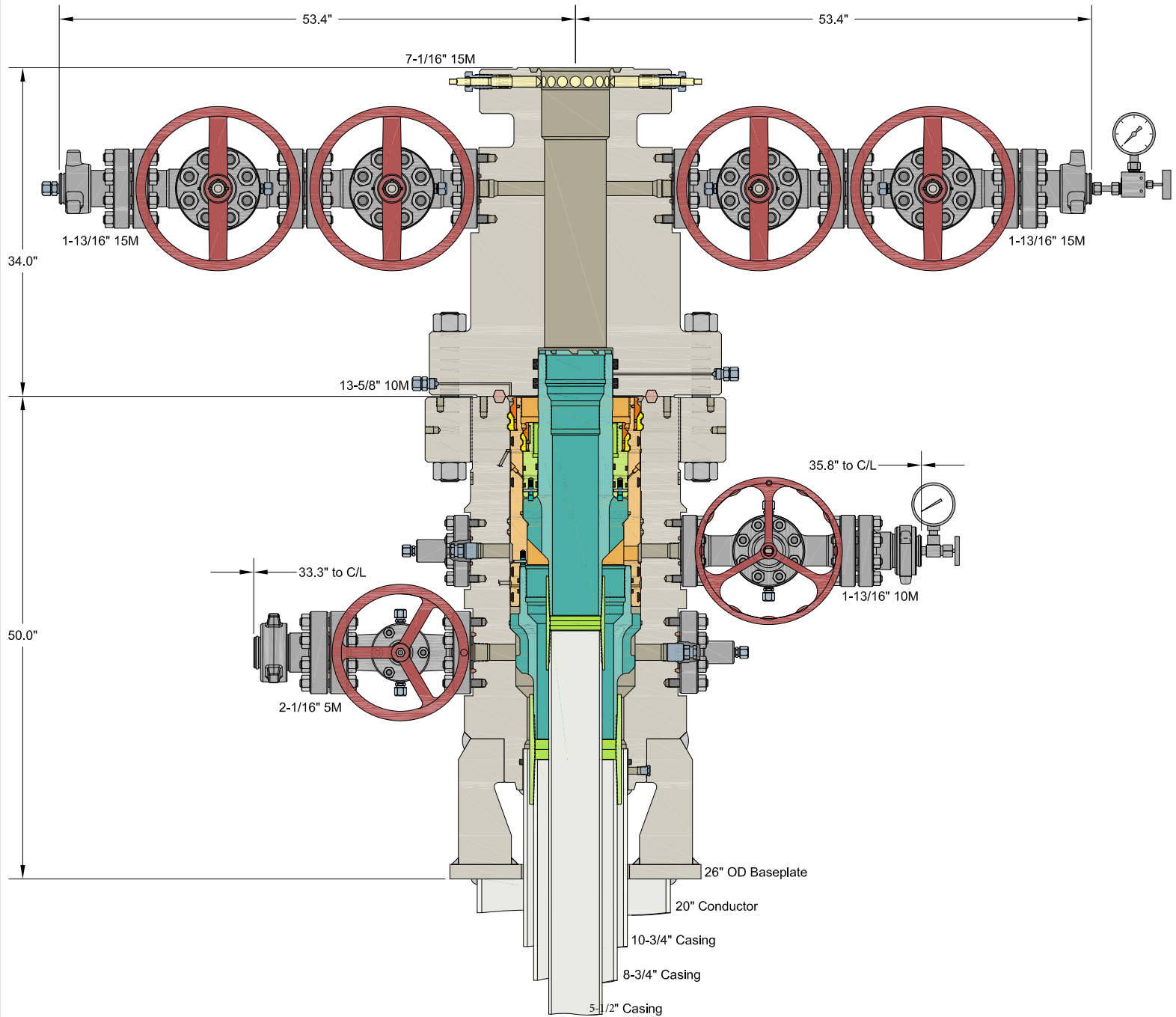
5-1/2", 17#, HCP-110, LTC

@ 0 - 21,160'

KOP: 10,475' MD, 10,290' TVD

EOC: 11,225' MD, 10,768' TVD

**Bit Size: 6-3/4"**



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ALL DIMENSIONS APPROXIMATE

## CACTUS WELLHEAD LLC

## EOG RESOURCES

10-3/4" x 8-3/4" x 6" MBU-3T-SF-SOW Wellhead System  
With 8-5/8" & 6" Pin Bottom Mandrel Casing Hangers  
And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head

DRAWN

DLE

14APR21

APPRV

DRAWING NO.

SDT-3141-1

New Search »

« Back to Previous List

USC ☒ Metric

6/8/2015 10:14:05 AM

| Mechanical Properties            | Pipe   | BTC    | LTC | STC    |          |
|----------------------------------|--------|--------|-----|--------|----------|
| Minimum Yield Strength           | 55,000 | --     | --  | --     | psi      |
| Maximum Yield Strength           | 80,000 | --     | --  | --     | psi      |
| Minimum Tensile Strength         | 75,000 | --     | --  | --     | psi      |
| Dimenstons                       | Pipe   | BTC    | LTC | STC    |          |
| Outside Diameter                 | 10.750 | 11.750 | --  | 11.750 | in.      |
| Wall Thickness                   | 0.350  | --     | --  | --     | in.      |
| Inside Diameter                  | 10.050 | 10.050 | --  | 10.050 | in.      |
| Standard Drift                   | 9.894  | 9.894  | --  | 9.894  | in.      |
| Alternate Drift                  | --     | --     | --  | --     | in.      |
| Nominal Linear Weight, T&C       | 40.50  | --     | --  | --     | lbs/ft   |
| Plain End Weight                 | 38.91  | --     | --  | --     | lbs/ft   |
| Performance                      | Pipe   | BTC    | LTC | STC    |          |
| Minimum Collapse Pressure        | 1,580  | 1,580  | --  | 1,580  | psi      |
| Minimum Internal Yield Pressure  | 3,130  | 3,130  | --  | 3,130  | psi      |
| Minimum Pipe Body Yield Strength | 629.00 | --     | --  | --     | 1000 lbs |
| Joint Strength                   | --     | 700    | --  | 420    | 1000 lbs |
| Reference Length                 | --     | 11,522 | --  | 6,915  | ft       |
| Make-Up Data                     | Pipe   | BTC    | LTC | STC    |          |
| Make-Up Loss                     | --     | 4.81   | --  | 3.50   | in.      |
| Minimum Make-Up Torque           | --     | --     | --  | 3,150  | ft-lbs   |
| Maximum Make-Up Torque           | --     | --     | --  | 5,250  | ft-lbs   |

Issued on: 09 Dec. 2020 by Wesley Ott

# VAM® SPRINT-SF

## Connection Data Sheet

|                               |                                                                           |                                     |                               |                                         |                                            |
|-------------------------------|---------------------------------------------------------------------------|-------------------------------------|-------------------------------|-----------------------------------------|--------------------------------------------|
| <b>OD</b><br><b>8 3/4 in.</b> | <b>Weight (lb/ft)</b><br><b>Nominal: 38.50</b><br><b>Plain End: 36.98</b> | <b>Wall Th.</b><br><b>0.415 in.</b> | <b>Grade</b><br><b>P110EC</b> | <b>Spec. Drift:</b><br><b>7.875 in.</b> | <b>Connection</b><br><b>VAM® SPRINT-SF</b> |
|-------------------------------|---------------------------------------------------------------------------|-------------------------------------|-------------------------------|-----------------------------------------|--------------------------------------------|

| PIPE PROPERTIES                |            |       |
|--------------------------------|------------|-------|
| Nominal OD                     | 8.750      | in.   |
| Nominal ID                     | 7.920      | in.   |
| Nominal Cross Section Area     | 10.867     | sqin. |
| Grade Type                     | High Yield |       |
| Min. Yield Strength            | 125        | ksi   |
| Max. Yield Strength            | 140        | ksi   |
| Min. Ultimate Tensile Strength | 135        | ksi   |

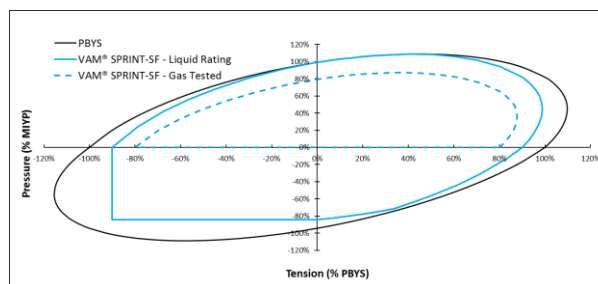
| CONNECTION PROPERTIES        |                     |           |
|------------------------------|---------------------|-----------|
| Connection Type              | Integral Semi-Flush |           |
| Connection OD (nom):         | 9.009               | in.       |
| Connection ID (nom):         | 7.945               | in.       |
| Make-Up Loss                 | 4.905               | in.       |
| Critical Cross Section       | 9.970               | sqin.     |
| Tension Efficiency           | 89.0                | % of pipe |
| Compression Efficiency       | 80.0                | % of pipe |
| Internal Pressure Efficiency | 87                  | % of pipe |
| External Pressure Efficiency | 100                 | % of pipe |

| CONNECTION PERFORMANCES               |       |         |
|---------------------------------------|-------|---------|
| Tensile Yield Strength                | 1,209 | klb     |
| Compression Resistance                | 1,086 | klb     |
| Internal Yield Pressure               | 9,030 | psi     |
| Collapse Resistance                   | 5,210 | psi     |
| Max. Structural Bending               | 55    | °/100ft |
| Max. Bending with ISO/API Sealability | 30    | °/100ft |

\* 87.5% RBW

| TORQUE VALUES                      |        |       |
|------------------------------------|--------|-------|
| Min. Make-up torque                | 20,750 | ft.lb |
| Opt. Make-up torque                | 23,250 | ft.lb |
| Max. Make-up torque                | 25,750 | ft.lb |
| Max. Torque with Sealability (MTS) | 50,000 | ft.lb |

**VAM® SPRINT-SF** is a semi-flush connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections and tight clearance requirements.



Do you need help on this product? - Remember no one knows VAM® like VAM®

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usa@vamfieldservice.com  
mexico@vamfieldservice.com  
brazil@vamfieldservice.com

uk@vamfieldservice.com  
dubai@vamfieldservice.com  
nigeria@vamfieldservice.com  
angola@vamfieldservice.com

china@vamfieldservice.com  
baku@vamfieldservice.com  
singapore@vamfieldservice.com  
australia@vamfieldservice.com

Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance



**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 141484

CONDITIONS

|                                                                      |                                                      |
|----------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377                                       |
|                                                                      | Action Number:<br>141484                             |
|                                                                      | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| pkautz     | None      | 9/15/2022      |