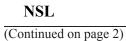
| 1b. Type of Well:   ✓     Oil Well   Gas Well   | GEMENT<br>RILL OR I          |   | OMB N<br>Expires: J<br>5. Lease Serial No.<br>NMNM0002965A<br>6. If Indian, Allotee | reement, Name and No.<br>Well No.             |      |
|---|------------------------------|---|---|---|------|
| 2. Name of Operator<br>EOG RESOURCES INCORPORATED [7377]  | - L                          | o. (include area code)  | 403H  | [319802]<br>30-025-49095                      |      |
|   | (713) 651-7                  |   |   | or Exploratory<br><b>3309P;-UPPER-WOLF(</b> 7 | 7280 |
| 4. Location of Well <i>(Report location clearly and in accordance wi</i><br>At surface LOT 3 / 2281 FNL / 1569 FWL / LAT 32.0009<br>At proposed prod. zone NESW / 2541 FSL / 2595 FWL / L   | 141 / LONG                   | G -103.5636538  | SEC 34/T26S/R33   | r Blk. and Survey or Area<br>BE/NMP           |      |
| 14. Distance in miles and direction from nearest town or post office  | e*                           |   | 12. County or Paris   | h 13. State<br>NM                             |      |
| location to nearest 100 feet<br>property or lease line, ft.<br>(Also to nearest drig. unit line, if any)  | 16. No of ac                 | 314.0   | ing Unit dedicated to   |   |      |
| to nearest well, drilling, completed,   | 19. Proposed<br>10450 feet / | 1 Depth 20. BLN<br>/ 15270 feet FED:  | 1/BIA Bond No. in file  |   |      |
|   | 01/30/2021                   | mate date work will start*  | 23. Estimated durat<br>25 days  | ion   |      |
|   | 24. Attacl                   |   |   |   |      |
| <ul> <li>The following, completed in accordance with the requirements of (as applicable)</li> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).</li> </ul> | Lands, the                   | <ul> <li>4. Bond to cover the operation<br/>Item 20 above).</li> <li>5. Operator certification.</li> <li>6. Such other site specific info<br/>BLM.</li> </ul> | ons unless covered by a   | n existing bond on file (see                  |      |
| 25. Signature<br>(Electronic Submission)  |                              | (Printed/Typed)<br>RASCHER / Ph: (713) 65   | 1-7000  | Date<br>07/28/2020                            |      |
| Title<br>Regulatory Specialist  |                              |   |   |   |      |
| Approved by (Signature)<br>(Electronic Submission)  |                              | (Printed/Typed)<br>_ayton / Ph: (575) 234-595   | 9   | Date<br>05/10/2021                            |      |
| Title<br>Assistant Field Manager Lands & Minerals   |                              | ad Field Office   |   |   |      |
| Application approval does not warrant or certify that the applicant<br>applicant to conduct operations thereon.<br>Conditions of approval, if any, are attached.  |                              |   |   |   |      |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma of the United States any false, fictitious or fraudulent statements or  |                              |   |   | any department or agency                      |      |

### GCP Rec 05/11/2021







**REQUIRES NSL** 

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 Road, 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, NM 87505

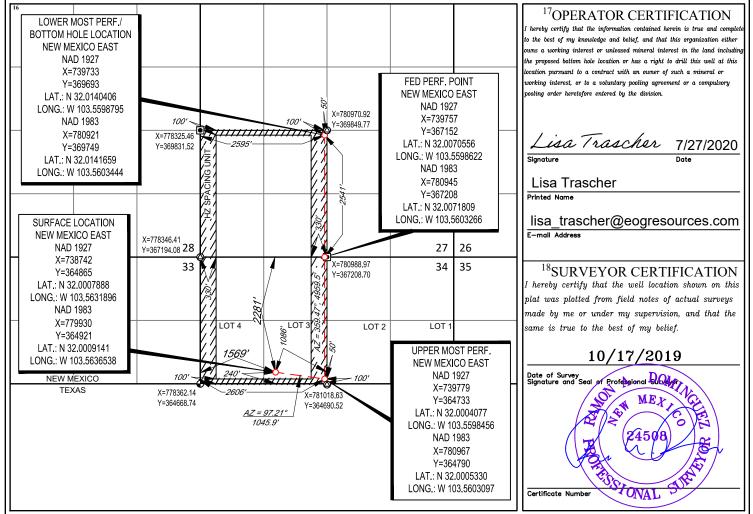
WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

Page 2 of 27

#### <sup>1</sup>API Number <sup>2</sup>Pool Code <sup>3</sup>Pool Name Red-Hills;-Lower-Bone-Spring Bradley; Bone Spring 51020 7280 <u> 30-025-49095</u> <sup>5</sup>Property Name Well Number <sup>4</sup>Property Code 319802 BARLOW 34 FED COM 403H <sup>8</sup>Operator Name <sup>7</sup>OGRID No. <sup>9</sup>Elevation 3279 EOG RESOURCES, INC. 7377 <sup>10</sup>Surface Location UL or lot no. Section Township Rang Lot Idn Feet from the North/South line Feet from the East/West line County 26-S 33-E 2281' NORTH 1569' WEST LEA 3 $\mathbf{34}$ <sup>11</sup>Bottom Hole Location If Different From Surface UL or lot no. Township Lot Idn Feet from the North/South line Feet from the East/West line County Section Rang SOUTH 27 2541' 2595' Κ 26-S 33-E WEST LEA <sup>2</sup>Dedicated Acres <sup>3</sup>Joint or Infill <sup>4</sup>Consolidation Code <sup>5</sup>Order No. 313.60

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.



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S:\SURVEY\EOG\_MIDLAND\BARLOW\_34\_FED\_COM\FINAL\_PRODUCTS\LO\_BARLOW\_34\_FC\_403H\_REV1.DWG 6/30/2020 8:44:22 PM adisabella

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

#### GAS CAPTURE PLAN

Date: 07/27/2020

 $\boxtimes$  Original

Operator & OGRID No.: EOG Resources, Inc. 7377

□ Amended - Reason for Amendment:\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

#### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name              | API         | Well Location | Footages                 | Expected | Flared or | Comments       |
|------------------------|-------------|---------------|--------------------------|----------|-----------|----------------|
|                        |             | (ULSTR)       |                          | MCF/D    | Vented    |                |
| Barlow 34 Fed Com 401H | 30-025-**** | 2-34-26S-33E  | 2337' FNL<br>& 1837' FEL | ±3500    | None      | APD Submission |
|                        |             |               | & 1857 FEL               |          | Planned   |                |
| Barlow 34 Fed Com 402H | 30-025-**** | 2-34-26S-33E  | 2337' FNL                | ±3500    | None      | APD Submission |
|                        |             |               | & 1852' FEL              |          | Planned   |                |
| Barlow 34 Fed Com 403H | 30-025-**** | 3-34-26S-33E  | 2281' FNL&               | ±3500    | None      | APD Submission |
|                        | 30-025-49   | 095           | 1569' FWL                |          | Planned   |                |
| Barlow 34 Fed Com 404H | 30-025-**** | 3-34-26S-33E  | 2282' FNL&               | ±3500    | None      | APD Submission |
|                        |             |               | 1554' FWL                |          | Planned   |                |
| Barlow 34 Fed Com 405H | 30-025-**** | 3-34-26S-33E  | 2282' FNL&               | ±3500    | None      | APD Submission |
|                        |             |               | 1539' FWL                |          | Planned   |                |

#### **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Lucid Energy. Enterprise & Regency Field Services</u> and will be connected to <u>EOG Resources</u> low/high pressure gathering system located in Lea County, New Mexico. EOG Resources provides (periodically) to <u>Lucid Energy, Enterprise & Regency Field Services</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, EOG Resources and <u>Lucid Energy, Enterprise & Regency Field Services</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Lucid Energy, Enterprise & Regency Field Services</u> Processing Plant located in Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

#### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on **Lucid Energy, Enterprise & Regency Field Services** system at that time. Based on current information, it is **EOG Resources'** belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

#### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
  - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared

## Received by OCD: 5/11/2021 1:25:03 PM Compressed Natural Gas – On lease

- - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease ٠
  - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

#### 1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| Rustler                           | 800'    |
|-----------------------------------|---------|
| Tamarisk Anhydrite                | 875'    |
| Top of Salt                       | 1,155'  |
| Base of Salt                      | 4,790'  |
| Lamar                             | 5,040'  |
| Bell Canyon                       | 5,067'  |
| Cherry Canyon                     | 6,098'  |
| Brushy Canyon                     | 8,091'  |
| Bone Spring Lime                  | 9,234'  |
| Leonard Shale                     | 9,307'  |
| 1 <sup>st</sup> Bone Spring Sand  | 10,178' |
| 2 <sup>nd</sup> Bone Spring Shale | 10,342' |
| TD                                | 10,450' |
|                                   |         |

### 3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

| Upper Permian Sands               | 0-400'  | Fresh Water |
|-----------------------------------|---------|-------------|
| Cherry Canyon                     | 6,098'  | Oil         |
| Brushy Canyon                     | 8,091'  | Oil         |
| Leonard                           | 9,307'  | Oil         |
| 1 <sup>st</sup> Bone Spring Sand  | 10,178' | Oil         |
| 2 <sup>nd</sup> Bone Spring Shale | 10,342' | 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 13.375" casing at 900' and circulating cement back to surface.

| Hole   |                 | Csg     |        |         |      | DF <sub>min</sub> | DF <sub>min</sub> | DF <sub>min</sub> |
|--------|-----------------|---------|--------|---------|------|-------------------|-------------------|-------------------|
| Size   | Interval        | OD      | Weight | Grade   | Conn | Collapse          | Burst             | Tension           |
| 17.5"  | 0'-900'         | 13.375" | 54.5#  | J-55    | STC  | 1.125             | 1.25              | 1.60              |
| 12.25" | 0'-4,000'       | 9.625"  | 40#    | J-55    | LTC  | 1.125             | 1.25              | 1.60              |
| 12.25" | 4,000' - 4,890' | 9.625"  | 40#    | HCK-55  | LTC  | 1.125             | 1.25              | 1.60              |
| 8.75"  | 0'-10,834'      | 5.5"    | 17#    | HCP-110 | LTC  | 1.125             | 1.25              | 1.60              |
| 8.5"   | 10,834'–        | 5.5"    | 17#    | HCP-110 | LTC  | 1.125             | 1.25              | 1.60              |
|        | 15,270'         |         |        |         |      |                   |                   |                   |

#### 4. CASING PROGRAM - NEW

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 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.

|         | No.   | Wt.  | Yld                 |  |  |  |  |  |  |
|---------|-------|------|---------------------|--|--|--|--|--|--|
| Depth   | Sacks | ppg  | Ft <sup>3</sup> /sk | Slurry Description   |  |  |  |  |  |
| 900'    | 510   | 13.5 | 1.73                | Lead: Class C + 4.0% Bentonite + 0.5% $CaCl_2$ + 0.25 lb/sk<br>Cello-Flake (TOC @ Surface)     |  |  |  |  |  |
|         | 160   | 14.8 | 1.34                | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.29<br>Sodium Metasilicate (TOC @ 700') |  |  |  |  |  |
| 4,890'  | 780   | 12.7 | 2.22                | Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)                         |  |  |  |  |  |
|         | 310   | 14.8 | 1.32                | Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,900')   |  |  |  |  |  |
| 15,270' | 560   | 11.0 | 3.21                | Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,390')   |  |  |  |  |  |
|         | 1,410 | 14.4 | 1.2                 | Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3%<br>Microbond (TOC @ 9,934')                 |  |  |  |  |  |

#### **<u>Cementing Program</u>**:

| Additive            | Purpose                                 |  |  |  |  |
|---------------------|---|--|--|--|--|
| Bentonite Gel       | Lightweight/Lost circulation prevention |  |  |  |  |
| Calcium Chloride    | Accelerator                             |  |  |  |  |
| Cello-flake         | Lost circulation prevention             |  |  |  |  |
| Sodium Metasilicate | Accelerator                             |  |  |  |  |
| MagOx               | 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                         |  |  |  |  |

Cement integrity tests will be performed immediately following plug bump.

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.

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

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

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig.

Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

#### 6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

| Depth            | Depth         Type           0 - 900'         Fresh - Gel |         | Viscosity | Water Loss |
|------------------|---|---------|-----------|------------|
| 0 – 900'         |   |         | 28-34     | N/c        |
| 900' - 4,890'    | Brine   | 8.6-8.8 | 28-34     | N/c        |
| 4,890' - 15,270' | Oil Base  | 8.8-9.5 | 58-68     | N/c - 6    |

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

#### 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H<sub>2</sub>S monitoring and detection equipment will be utilized from surface casing point to TD.

#### 8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR–CCL Will be run in cased hole during completions phase of operations.

# 9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5,162 psig and a maximum anticipated surface pressure of 2,863 psig (based on 9.5 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 8,091' to TD.

#### **10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:**

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

(A) 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 1000 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.

#### **11. WELLHEAD**:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13-3/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cameron Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

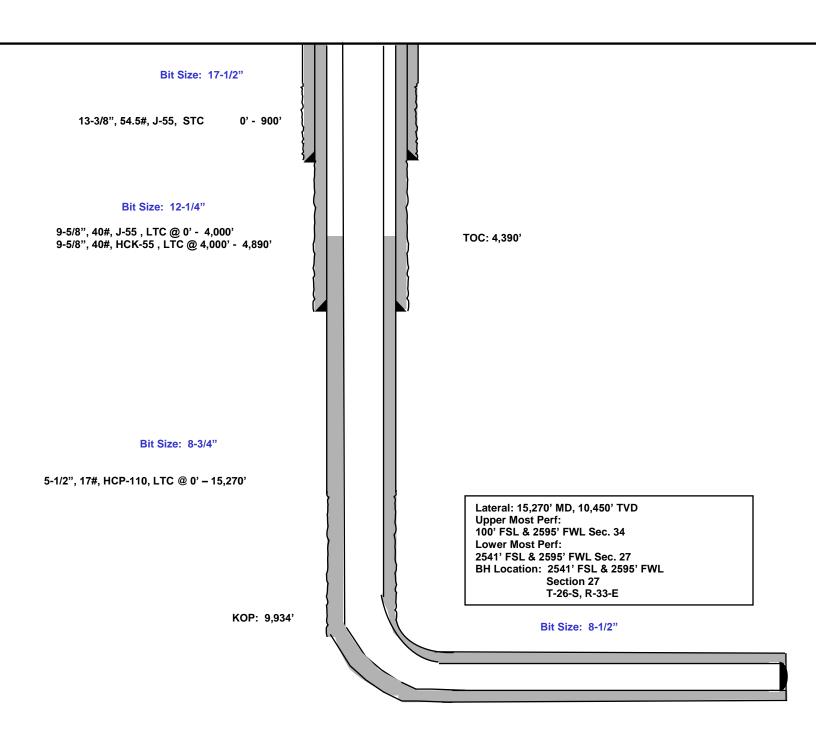
The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

| 2281' FNL<br>1569' FWL | Proposed Wellbore | KB: 3,304'<br>GL: 3,279' |
|------------------------|-------------------|--------------------------|
| Section 34             | •                 |                          |
| T-26-S, R-33-E         | API: 30-025-****  |                          |





## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME) Barlow 34 Fed Com #403H

ОН

Plan: Plan #0.1

## **Standard Planning Report**

13 July, 2020

# **O**eog resources

#### **EOG Resources**

Planning Report

| US State<br>North Am<br>New Mex                         | 0.   | 1983  | ng:  | System Dat  | um:  | Me   | an Sea Level   |   |  |
|---|--|---|--|---|--|--|--|---|--|
| Мар<br>#403Н<br><b>+N/-S</b>                            | 0.   | Eastir  | ng:  | 364   |  |  |  |   |  |
| #403H<br>+N/-S  | 0.   | Eastir  | ng:  | 364   |  |  |  |   |  |
| +N/-S   |  |   | adius:   | 778   | ,974.00 usft<br>,981.00 usft<br>13-3/16 "  | Latitude:<br>Longitude:<br>Grid Converg  | ence:  |   | 32.0010774°N<br>103.5667130°W<br>0.41 °  |
|   |  |   |  |   |  |  |  |   |  |
|   | 949  | 9.0 usft Ea   | sting:   | ion:  |  | usft Lon   | gitude:  |   | 32.0009132°N<br>103.5636531°W<br>3,279.0 usft  |
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| Plan #0.  |  |   |  | PLAN<br>+N/-S<br>(usft)<br>0.0  | +E.<br>(us   | /-W<br>sft)  | Dire   | (°)   |  |
| (usf  | i To<br>ït) Survey   |   |  | <b>Tool Name</b><br>EOG MWD+IF<br>MWD + IFR1  | R1   | Remarks  |  |   |  |
|   |  |   |  |   |  |  |  |   |  |
| nation<br>°)  | Azimuth<br>(°)   | Vertical<br>Depth<br>(usft)   | +N/-S<br>(usft)  | +E/-W<br>(usft)   | Dogleg<br>Rate<br>(°/100usft)  | Build<br>Rate<br>(°/100usft)   | Turn<br>Rate<br>(°/100usft)  | TFO<br>(°)  | Target   |
| 0.00<br>6.28<br>6.28<br>0.00<br>90.00<br>90.00<br>90.00 | 0.00<br>99.90<br>99.90<br>0.00<br>359.49<br>359.49<br>359.46 | 0.0<br>313.5<br>9,563.5<br>9,877.0<br>10,450.0<br>10,450.0<br>10,450.0  | 0.0<br>-3.0<br>-178.0<br>-181.0<br>391.9<br>2,287.0<br>2,288.5   | 0.0<br>16.9<br>1,020.1<br>1,037.0<br>1,031.9<br>1,015.0<br>1,015.0  | 0.00<br>2.00<br>2.00<br>10.00<br>0.00<br>2.00  | 0.00<br>2.00<br>0.00<br>-2.00<br>10.00<br>0.00<br>0.08   | 0.00<br>0.00<br>0.00<br>-0.06<br>0.00<br>-2.00   | 359.49<br>0.00<br>-87.60  | KOP (Barlow 34 Fed (<br>FPP (Barlow 34 Fed (   |
|   | +E/-W<br>OH<br>Mod<br>Plan #0<br>Plan #0                     | +E/-W     948       OH     IGRF2020       Model Name     IGRF2020       Plan #0.1     Date       Depth To<br>(usft)     Date       Depth To<br>(usft)     Survey       15,270.4     Plan #0       nation     Azimuth<br>(°)       0.00     0.00       6.28     99.90       0.00     0.00       90.00     359.49       90.00     359.49       90.00     359.49 | +E/-W     949.0 usft<br>0.0 usft     Ea<br>0.0 usft       OH     OH       Model Name     Sample       IGRF2020     IGRF2020       Plan #0.1     Phas       Depth From (T)<br>(usft)     Depth From (T)<br>(usft)       old     Jate       7/13/2020       Depth To<br>(usft)     Survey (Wellbore)       15,270.4     Plan #0.1 (OH)       Azimuth<br>°)     Vertical<br>Depth<br>(usft)       0.00     0.00       6.28     99.90       91.00     359.49       90.00     359.49       90.00     359.49       90.00     359.49       90.00     359.46 | +E/-W       949.0 usft<br>0.0 usft       Easting:<br>Wellhead Elevat         OH       OH       Sample Date         IGRF2020       7/13/2020         Plan #0.1       Phase:       F         Depth From (TVD)<br>(usft)       0.0         Ogram       Date       7/13/2020         Depth To<br>(usft)       Survey (Wellbore)       1         15,270.4       Plan #0.1 (OH)       +N/-S         nation       Azimuth<br>(°)       Vertical<br>Depth to<br>(usft)       +N/-S         0.00       0.00       0.0       0.0         0.00       0.00       0.0       0.0         0.00       0.00       9.90       313.5       -3.0         0.28       99.90       313.5       -3.0       -3.0         0.28       99.90       9,563.5       -178.0       0.00       0.00       391.9         90.00       359.49       10,450.0       2,287.0       90.00       359.45       10,450.0       2,287.0 | +E/-W       949.0 usft       Easting:<br>0.0 usft       Wellhead Elevation:         OH       Model Name       Sample Date       Declina<br>(°)         IGRF2020       7/13/2020       (°)         Plan #0.1       Phase:       PLAN         Depth From (TVD)<br>(usft)       +N/-S<br>(usft)       +N/-S<br>(usft)         Depth From (TVD)<br>(usft)       +N/-S<br>(usft)       this         Depth To<br>(usft)       Date       7/13/2020       Tool Name         15,270.4       Plan #0.1 (OH)       EOG MWD+IF<br>MWD + IFR1       EOG MWD+IF<br>MWD + IFR1         hation       Azimuth<br>(°)       Vertical<br>Depth<br>(°)       +N/-S<br>(usft)       +E/-W<br>(usft)         0.00       0.00       0.0       0.0       0.0         0.00       0.00       0.0       16.9         6.28       99.90       313.5       -3.0       16.9         6.28       99.90       9,563.5       -178.0       1,020.1         0.00       0.00       9,877.0       -181.0       1,037.0         90.00       359.49       10,450.0       2,287.0       1,015.0         90.00       359.44       10,450.0       2,285.5       1,015.0 | +E/-W       949.0 usft       Easting:<br>0.0 usft       779,930.00         OH       OH       Model Name       Sample Date       Declination<br>(°)         IGRF2020       7/13/2020       6.63         Plan #0.1       Phase:       PLAN       Tie         Depth From (TVD)       +N/-S       +EE/-W       (usft)         (usft)       (usft)       (usft)       (usft)         Opeth To<br>(usft)       Survey (Wellbore)       Tool Name       Tool Name         15,270.4       Plan #0.1 (OH)       EOG MWD+IFR1<br>MWD + IFR1       MWD + IFR1         Nodel 99.90       313.5       -3.0       16.9       2.00         6.28       99.90       313.5       -3.0       16.9       2.00         6.28       99.90       9,563.5       -178.0       1,020.1       0.00         0.00       0.00       9,877.0       -181.0       1,037.0       2.00         90.00       359.49       10,450.0       2,287.0       1,015.0       0.00         90.00       359.49       10,450.0       2,288.5       1,015.0       2.00 | +E/-W         949.0 usft         Easting:<br>0.0 usft         779,930.00 usft         Lon<br>Gro           OH         Model Name         Sample Date         Declination<br>(°)         Dip A<br>(°)         Oi p<br>(°)         Oi p<br>(°)           IGRF2020         7/13/2020         6.63         Depth for<br>(°)         Dip A<br>(°)         Dip A | +E/-W         949.0 usft         Easting:<br>0.0 usft         779,930.00 usft         Longitude:<br>Ground Level:           OH         Model Name         Sample Date         Declination<br>(°)         Dip Angle<br>(°)         Dip Angle<br>(°)           IGRF2020         7/13/2020         6.63         59.73           Plan #0.1         Phase:         PLAN         Tie On Depth:           Usft         (usft)         (usft)         Dir<br>(°)         Dir<br>(°)           0.0         0.0         0.0         0.0         1           OP         *N/-S         *E/-W         Dir<br>(usft)         Dir<br>(usft)         Tie On Depth:           Istrict         0.0         0.0         0.0         0.0         1           Opeth To<br>(usft)         Survey (Wellbore)         Tool Name         Remarks           15.270.4         Plan #0.1 (OH)         EOG MWD+IFR1<br>MWD + IFR1         MWD + IFR1           Multiple         Usft)         (usft)         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 | +E/-W         949.0 usft         Easting:<br>0.0 usft         779,930.00 usft         Longitude:<br>Ground Level:           OH         Model Name         Sample Date         Declination<br>(*)         Dip Angle<br>(*)         Field S<br>(*)           Model Name         Sample Date         Declination<br>(*)         Dip Angle<br>(*)         Field S<br>(*)           IGRF2020         7/13/2020         6.63         59.73         47.4           Plan #0.1         Phase:         PLAN         Tie On Depth:<br>(usft)         Direction<br>(*)         Direction<br>(*)           Opth From (TVD)<br>(usft)         +N/-S<br>(usft)         +E/-W<br>(usft)         Direction<br>(usft)         0.0         0.0           Opth To<br>(usft)         Survey (Wellbore)         Tool Name         Remarks         Turn<br>(*)         Trp<br>(usft)         Turn<br>(*)         Trp<br>(usft)         Turn<br>(usft)         Turn<br>(*)         Trp<br>(*)         Trp<br>(*)           0.0         0.0         0.0         0.0         0.0         0.00         0.00         0.00           15,270.4         Plan #0.1 (OH)         EOG MWD+IFR1<br>MWD + IFR1         MWD + IFR1         Turn<br>Ration         Rate<br>Rate         Turn<br>Rate         Turn<br>Rate         Turn<br>Rate         Turn<br>Rate         Turn<br>Rate         Turn<br>Rate         Rate         Turn<br>Rate         Turn<br>Rate         < |

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**Planning Report** 

| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #403H            |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25' @ 3304.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25' @ 3304.0usft |
| Site:     | Barlow 34 Fed Com           | North Reference:             | Grid                  |
| Well:     | #403H                       | Survey Calculation Method:   | Minimum Curvature     |
| Wellbore: | ОН                          |                              |                       |
| Design:   | Plan #0.1                   |                              |                       |

Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 0.0                         | 0.00               | 0.00           | 0.0                         | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 100.0                       | 2.00               | 99.90          | 100.0                       | -0.3            | 1.7             | 0.1                           | 2.00                          | 2.00                         | 0.00                        |
| 200.0                       | 4.00               | 99.90          | 199.8                       | -1.2            | 6.9             | 0.2                           | 2.00                          | 2.00                         | 0.00                        |
| 300.0                       | 6.00               | 99.90          | 299.5                       | -2.7            | 15.5            | 0.5                           | 2.00                          | 2.00                         | 0.00                        |
| 314.1                       | 6.28               | 99.90          | 313.5                       | -3.0            | 16.9            | 0.5                           | 2.00                          | 2.00                         | 0.00                        |
| 400.0                       | 6.28               | 99.90          | 398.9                       | -4.6            | 26.2            | 0.8                           | 0.00                          | 0.00                         | 0.00                        |
| 500.0                       | 6.28               | 99.90<br>99.90 | 498.3                       | -4.0            | 37.0            | 1.1                           | 0.00                          | 0.00                         | 0.00                        |
|                             |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 600.0                       | 6.28               | 99.90          | 597.7                       | -8.3            | 47.8            | 1.4                           | 0.00                          | 0.00                         | 0.00                        |
| 700.0                       | 6.28               | 99.90          | 697.1                       | -10.2           | 58.5            | 1.8                           | 0.00                          | 0.00                         | 0.00                        |
| 800.0                       | 6.28               | 99.90          | 796.5                       | -12.1           | 69.3            | 2.1                           | 0.00                          | 0.00                         | 0.00                        |
| 900.0                       | 6.28               | 99.90          | 895.9                       | -14.0           | 80.1            | 2.4                           | 0.00                          | 0.00                         | 0.00                        |
| 1,000.0                     | 6.28               | 99.90          | 995.3                       | -15.9           | 90.9            | 2.7                           | 0.00                          | 0.00                         | 0.00                        |
| 1,100.0                     | 6.28               | 99.90          | 1,094.7                     | -17.7           | 101.7           | 3.1                           | 0.00                          | 0.00                         | 0.00                        |
| 1,200.0                     | 6.28               | 99.90          | 1,194.1                     | -19.6           | 112.4           | 3.4                           | 0.00                          | 0.00                         | 0.00                        |
| 1,300.0                     | 6.28               | 99.90          | 1,293.5                     | -21.5           | 123.2           | 3.7                           | 0.00                          | 0.00                         | 0.00                        |
| 1,400.0                     | 6.28               | 99.90          | 1,392.9                     | -23.4           | 134.0           | 4.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,500.0                     | 6.28               | 99.90          | 1,492.3                     | -25.3           | 144.8           | 4.4                           | 0.00                          | 0.00                         | 0.00                        |
| 1,600.0                     | 6.28               | 99.90          | 1,591.6                     | -27.2           | 155.6           | 4.7                           | 0.00                          | 0.00                         | 0.00                        |
| 1,700.0                     | 6.28               | 99.90          | 1,691.0                     | -29.0           | 166.3           | 5.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,800.0                     | 6.28               | 99.90          | 1,790.4                     | -30.9           | 177.1           | 5.3                           | 0.00                          | 0.00                         | 0.00                        |
| 1,900.0                     | 6.28               | 99.90          | 1,889.8                     | -32.8           | 187.9           | 5.7                           | 0.00                          | 0.00                         | 0.00                        |
| 2,000.0                     | 6.28               | 99.90          | 1,989.2                     | -34.7           | 198.7           | 6.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,100.0                     | 6.28               | 99.90          | 2,088.6                     | -36.6           | 209.5           | 6.3                           | 0.00                          | 0.00                         | 0.00                        |
| 2,200.0                     | 6.28               | 99.90          | 2,188.0                     | -38.4           | 220.2           | 6.6                           | 0.00                          | 0.00                         | 0.00                        |
| 2,300.0                     | 6.28               | 99.90          | 2,287.4                     | -40.3           | 231.0           | 7.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,400.0                     | 6.28               | 99.90          | 2,386.8                     | -42.2           | 241.8           | 7.3                           | 0.00                          | 0.00                         | 0.00                        |
| 2,500.0                     | 6.28               | 99.90          | 2,486.2                     | -44.1           | 252.6           | 7.6                           | 0.00                          | 0.00                         | 0.00                        |
| 2,600.0                     | 6.28               | 99.90          | 2,585.6                     | -46.0           | 263.3           | 7.9                           | 0.00                          | 0.00                         | 0.00                        |
| 2,700.0                     | 6.28               | 99.90          | 2,685.0                     | -47.8           | 274.1           | 8.2                           | 0.00                          | 0.00                         | 0.00                        |
| 2,800.0                     | 6.28               | 99.90          | 2,784.4                     | -49.7           | 284.9           | 8.6                           | 0.00                          | 0.00                         | 0.00                        |
| 2,900.0                     | 6.28               | 99.90          | 2,883.8                     | -51.6           | 295.7           | 8.9                           | 0.00                          | 0.00                         | 0.00                        |
| 3,000.0                     | 6.28               | 99.90          | 2,983.2                     | -53.5           | 306.5           | 9.2                           | 0.00                          | 0.00                         | 0.00                        |
| 3,100.0                     | 6.28               | 99.90          | 3,082.6                     | -55.4           | 317.2           | 9.5                           | 0.00                          | 0.00                         | 0.00                        |
| 3,200.0                     | 6.28               | 99.90          | 3,182.0                     | -57.3           | 328.0           | 9.9                           | 0.00                          | 0.00                         | 0.00                        |
| 3,300.0                     | 6.28               | 99.90          | 3,281.4                     | -59.1           | 338.8           | 10.2                          | 0.00                          | 0.00                         | 0.00                        |
| 3,400.0                     | 6.28               | 99.90          | 3,380.8                     | -61.0           | 349.6           | 10.5                          | 0.00                          | 0.00                         | 0.00                        |
| 3,500.0                     | 6.28               | 99.90          | 3,480.2                     | -62.9           | 360.4           | 10.8                          | 0.00                          | 0.00                         | 0.00                        |
| 3,600.0                     | 6.28               | 99.90          | 3,579.6                     | -64.8           | 371.1           | 11.2                          | 0.00                          | 0.00                         | 0.00                        |
| 3,700.0                     | 6.28               | 99.90          | 3,679.0                     | -66.7           | 381.9           | 11.5                          | 0.00                          | 0.00                         | 0.00                        |
| 3,800.0                     | 6.28               | 99.90          | 3,778.4                     | -68.5           | 392.7           | 11.8                          | 0.00                          | 0.00                         | 0.00                        |
| 3,900.0                     | 6.28               | 99.90          | 3,877.8                     | -70.4           | 403.5           | 12.1                          | 0.00                          | 0.00                         | 0.00                        |
| 4,000.0                     | 6.28               | 99.90          | 3,977.2                     | -72.3           | 414.3           | 12.5                          | 0.00                          | 0.00                         | 0.00                        |
| 4,100.0                     | 6.28               | 99.90          | 4,076.6                     | -74.2           | 425.0           | 12.8                          | 0.00                          | 0.00                         | 0.00                        |
| 4,200.0                     | 6.28               | 99.90          | 4,176.0                     | -76.1           | 435.8           | 13.1                          | 0.00                          | 0.00                         | 0.00                        |
| 4,300.0                     | 6.28               | 99.90          | 4,275.4                     | -77.9           | 446.6           | 13.4                          | 0.00                          | 0.00                         | 0.00                        |
| 4,400.0                     | 6.28               | 99.90          | 4,374.8                     | -79.8           | 457.4           | 13.8                          | 0.00                          | 0.00                         | 0.00                        |
| 4,500.0                     | 6.28               | 99.90          | 4,474.2                     | -81.7           | 468.2           | 14.1                          | 0.00                          | 0.00                         | 0.00                        |
| 4,600.0                     | 6.28               | 99.90          | 4,573.6                     | -83.6           | 478.9           | 14.4                          | 0.00                          | 0.00                         | 0.00                        |
| 4,700.0                     | 6.28               | 99.90          | 4,673.0                     | -85.5           | 489.7           | 14.7                          | 0.00                          | 0.00                         | 0.00                        |
| 4,800.0                     | 6.28               | 99.90          | 4,772.4                     | -87.4           | 500.5           | 15.1                          | 0.00                          | 0.00                         | 0.00                        |
| 4.900.0                     | 6.28               | 99.90          | 4,871.8                     | -89.2           | 511.3           | 15.4                          | 0.00                          | 0.00                         | 0.00                        |
| 5,000.0                     | 6.28               | 99.90          | 4,971.2                     | -91.1           | 522.0           | 15.7                          | 0.00                          | 0.00                         | 0.00                        |
| 5,100.0                     | 6.28               | 99.90          | 5,070.6                     | -93.0           | 532.8           | 16.0                          | 0.00                          | 0.00                         | 0.00                        |
| 5,200.0                     | 6.28               | 99.90          | 5,170.0                     | -94.9           | 543.6           | 16.4                          | 0.00                          | 0.00                         | 0.00                        |
| 0,200.0                     | 0.20               | 33.30          | 5,170.0                     | ·JT.J           | 545.0           | 10.4                          | 0.00                          | 0.00                         | 0.00                        |

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**Planning Report** 

| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #403H            |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25' @ 3304.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25' @ 3304.0usft |
| Site:     | Barlow 34 Fed Com           | North Reference:             | Grid                  |
| Well:     | #403H                       | Survey Calculation Method:   | Minimum Curvature     |
| Wellbore: | OH                          |                              |                       |
| Design:   | Plan #0.1                   |                              |                       |

Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°)   | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft)  | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|------------------|-----------------------------|------------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 5,300.0                     | 6.28               | 99.90            | 5,269.4                     | -96.8            | 554.4           | 16.7                          | 0.00                          | 0.00                         | 0.00                        |
| 5,400.0                     | 6.28               | 99.90            | 5,368.8                     | -98.6            | 565.2           | 17.0                          | 0.00                          | 0.00                         | 0.00                        |
| 5,500.0                     | 6.28               | 99.90            | 5,468.2                     | -100.5           | 575.9           | 17.3                          | 0.00                          | 0.00                         | 0.00                        |
| 5,600.0                     | 6.28               | 99.90            | 5,567.6                     | -102.4           | 586.7           | 17.0                          | 0.00                          | 0.00                         | 0.00                        |
| 5,700.0                     | 6.28               | 99.90            | 5,667.0                     | -104.3           | 597.5           | 18.0                          | 0.00                          | 0.00                         | 0.00                        |
| 5,800.0                     | 6.28               | 99.90            | 5,766.4                     | -104.3           | 608.3           | 18.3                          | 0.00                          | 0.00                         | 0.00                        |
| 5,600.0                     | 0.20               | 99.90            | 5,700.4                     | -100.2           | 000.3           | 10.5                          | 0.00                          | 0.00                         | 0.00                        |
| 5,900.0                     | 6.28               | 99.90            | 5,865.8                     | -108.1           | 619.1           | 18.6                          | 0.00                          | 0.00                         | 0.00                        |
| 6,000.0                     | 6.28               | 99.90            | 5,965.2                     | -109.9           | 629.8           | 19.0                          | 0.00                          | 0.00                         | 0.00                        |
| 6,100.0                     | 6.28               | 99.90            | 6,064.6                     | -111.8           | 640.6           | 19.3                          | 0.00                          | 0.00                         | 0.00                        |
| 6,200.0                     | 6.28               | 99.90            | 6,164.0                     | -113.7           | 651.4           | 19.6                          | 0.00                          | 0.00                         | 0.00                        |
| 6,300.0                     | 6.28               | 99.90            | 6,263.4                     | -115.6           | 662.2           | 19.9                          | 0.00                          | 0.00                         | 0.00                        |
|                             |                    |                  |                             |                  |                 |                               |                               |                              |                             |
| 6,400.0                     | 6.28               | 99.90            | 6,362.8                     | -117.5           | 673.0           | 20.3                          | 0.00                          | 0.00                         | 0.00                        |
| 6,500.0                     | 6.28               | 99.90            | 6,462.2                     | -119.3           | 683.7           | 20.6                          | 0.00                          | 0.00                         | 0.00                        |
| 6,600.0                     | 6.28               | 99.90            | 6,561.6                     | -121.2           | 694.5           | 20.9                          | 0.00                          | 0.00                         | 0.00                        |
| 6,700.0                     | 6.28               | 99.90            | 6,661.0                     | -123.1           | 705.3           | 21.2                          | 0.00                          | 0.00                         | 0.00                        |
| 6,800.0                     | 6.28               | 99.90            | 6,760.4                     | -125.0           | 716.1           | 21.5                          | 0.00                          | 0.00                         | 0.00                        |
| 6,900.0                     | 6.28               | 99.90            | 6,859.8                     | -126.9           | 726.9           | 21.9                          | 0.00                          | 0.00                         | 0.00                        |
|                             | 6.28               | 99.90            | 6,959.2                     | -128.7           | 737.6           | 21.9                          |                               | 0.00                         |                             |
| 7,000.0                     |                    |                  |                             | -128.7<br>-130.6 | 737.6<br>748.4  | 22.2                          | 0.00<br>0.00                  | 0.00                         | 0.00<br>0.00                |
| 7,100.0                     | 6.28               | 99.90            | 7,058.6                     |                  |                 |                               |                               |                              |                             |
| 7,200.0                     | 6.28               | 99.90            | 7,158.0                     | -132.5           | 759.2           | 22.8                          | 0.00                          | 0.00                         | 0.00                        |
| 7,300.0                     | 6.28               | 99.90            | 7,257.4                     | -134.4           | 770.0           | 23.2                          | 0.00                          | 0.00                         | 0.00                        |
| 7,400.0                     | 6.28               | 99.90            | 7,356.8                     | -136.3           | 780.8           | 23.5                          | 0.00                          | 0.00                         | 0.00                        |
| 7,500.0                     | 6.28               | 99.90            | 7,456.2                     | -138.2           | 791.5           | 23.8                          | 0.00                          | 0.00                         | 0.00                        |
| 7,600.0                     | 6.28               | 99.90            | 7,555.6                     | -140.0           | 802.3           | 24.1                          | 0.00                          | 0.00                         | 0.00                        |
| 7,700.0                     | 6.28               | 99.90            | 7,655.0                     | -141.9           | 813.1           | 24.5                          | 0.00                          | 0.00                         | 0.00                        |
| 7,800.0                     | 6.28               | 99.90            | 7,754.4                     | -143.8           | 823.9           | 24.8                          | 0.00                          | 0.00                         | 0.00                        |
|                             |                    |                  |                             |                  |                 |                               |                               |                              |                             |
| 7,900.0                     | 6.28               | 99.90            | 7,853.8                     | -145.7           | 834.6           | 25.1                          | 0.00                          | 0.00                         | 0.00                        |
| 8,000.0                     | 6.28               | 99.90            | 7,953.2                     | -147.6           | 845.4           | 25.4                          | 0.00                          | 0.00                         | 0.00                        |
| 8,100.0                     | 6.28               | 99.90            | 8,052.6                     | -149.4           | 856.2           | 25.8                          | 0.00                          | 0.00                         | 0.00                        |
| 8,200.0                     | 6.28               | 99.90            | 8,152.0                     | -151.3           | 867.0           | 26.1                          | 0.00                          | 0.00                         | 0.00                        |
| 8,300.0                     | 6.28               | 99.90            | 8,251.4                     | -153.2           | 877.8           | 26.4                          | 0.00                          | 0.00                         | 0.00                        |
|                             |                    | 00.00            |                             |                  |                 |                               |                               | 0.00                         |                             |
| 8,400.0                     | 6.28               | 99.90            | 8,350.8                     | -155.1           | 888.5           | 26.7                          | 0.00                          | 0.00                         | 0.00                        |
| 8,500.0                     | 6.28               | 99.90            | 8,450.2                     | -157.0           | 899.3           | 27.1                          | 0.00                          | 0.00                         | 0.00                        |
| 8,600.0                     | 6.28               | 99.90            | 8,549.6                     | -158.9           | 910.1           | 27.4                          | 0.00                          | 0.00                         | 0.00                        |
| 8,700.0                     | 6.28               | 99.90            | 8,649.0                     | -160.7           | 920.9           | 27.7                          | 0.00                          | 0.00                         | 0.00                        |
| 8,800.0                     | 6.28               | 99.90            | 8,748.4                     | -162.6           | 931.7           | 28.0                          | 0.00                          | 0.00                         | 0.00                        |
| 8,900.0                     | 6.28               | 99.90            | 8,847.8                     | -164.5           | 942.4           | 28.4                          | 0.00                          | 0.00                         | 0.00                        |
| 9,000.0                     | 6.28               | 99.90            | 8,947.2                     | -166.4           | 953.2           | 28.7                          | 0.00                          | 0.00                         | 0.00                        |
| 9,100.0                     | 6.28               | 99.90            | 9,046.6                     | -168.3           | 964.0           | 29.0                          | 0.00                          | 0.00                         | 0.00                        |
| 9,200.0                     | 6.28               | 99.90            | 9,146.0                     | -170.1           | 974.8           | 29.3                          | 0.00                          | 0.00                         | 0.00                        |
| 9,300.0                     | 6.28               | 99.90            | 9,245.4                     | -172.0           | 985.6           | 29.3                          | 0.00                          | 0.00                         | 0.00                        |
|                             |                    |                  |                             |                  |                 |                               |                               |                              |                             |
| 9,400.0                     | 6.28               | 99.90            | 9,344.8                     | -173.9           | 996.3           | 30.0                          | 0.00                          | 0.00                         | 0.00                        |
| 9,500.0                     | 6.28               | 99.90            | 9,444.2                     | -175.8           | 1,007.1         | 30.3                          | 0.00                          | 0.00                         | 0.00                        |
| 9,600.0                     | 6.28               | 99.90            | 9,543.6                     | -177.7           | 1,017.9         | 30.6                          | 0.00                          | 0.00                         | 0.00                        |
| 9,620.0                     | 6.28               | 99.90            | 9,563.5                     | -178.0           | 1,020.1         | 30.7                          | 0.00                          | 0.00                         | 0.00                        |
| 9,700.0                     | 4.68               | 99.90            | 9,643.1                     | -179.4           | 1,027.6         | 30.9                          | 2.00                          | -2.00                        | 0.00                        |
|                             |                    |                  |                             |                  |                 |                               |                               |                              |                             |
| 9,800.0                     | 2.68               | 99.90            | 9,742.9                     | -180.5           | 1,033.9         | 31.1                          | 2.00                          | -2.00                        | 0.00                        |
| 9,900.0                     | 0.68               | 99.90            | 9,842.9                     | -181.0           | 1,036.8         | 31.2                          | 2.00                          | -2.00                        | 0.00                        |
| 9,934.1                     | 0.00               | 0.00             | 9,877.0                     | -181.0           | 1,037.0         | 31.2                          | 2.00                          | -2.00                        | 0.00                        |
| 9,950.0                     | 1.59               | 359.49           | 9,892.9                     | -180.8           | 1,037.0         | 31.4                          | 10.00                         | 10.00                        | 0.00                        |
| 10,000.0                    | 6.59               | 359.49           | 9,942.7                     | -177.2           | 1,037.0         | 34.9                          | 10.00                         | 10.00                        | 0.00                        |
| 10,050.0                    | 11.59              | 359.49           | 9,992.1                     | -169.3           | 1,036.9         | 42.6                          | 10.00                         | 10.00                        | 0.00                        |
| 10,050.0                    |                    | 359.49<br>359.49 |                             | -169.3<br>-157.2 | 1,036.9         |                               | 10.00                         |                              |                             |
| 10,100.0                    | 16.59<br>21.59     | 359.49<br>359.49 | 10,040.6                    | -157.2<br>-140.8 | 1,036.8         | 54.5                          |                               | 10.00                        | 0.00                        |
|                             | 21 50              | 359 49           | 10,087.8                    | -1/10 8          | 10366           | 70.5                          | 10.00                         | 10.00                        | 0.00                        |

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COMPASS 5000.15 Build 91

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**Planning Report** 

| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #403H            |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25' @ 3304.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25' @ 3304.0usft |
| Site:     | Barlow 34 Fed Com           | North Reference:             | Grid                  |
| Well:     | #403H                       | Survey Calculation Method:   | Minimum Curvature     |
| Wellbore: | ОН                          |                              |                       |
| Design:   | Plan #0.1                   |                              |                       |

Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°)   | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft)    | +E/-W<br>(usft)    | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|------------------|-----------------------------|--------------------|--------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 10,200.0                    | 26.59              | 359.49           | 10,133.4                    | -120.4             | 1,036.5            | 90.4                          | 10.00                         | 10.00                        | 0.00                        |
| 10,200.0                    | 31.59              | 359.49           | 10,133.4                    | -120.4<br>-96.1    | 1,036.2            | 90.4<br>114.2                 | 10.00                         | 10.00                        | 0.00                        |
|                             |                    |                  |                             |                    |                    |                               |                               |                              |                             |
| 10,300.0                    | 36.59              | 359.49           | 10,218.5                    | -68.1              | 1,036.0            | 141.6                         | 10.00                         | 10.00                        | 0.00                        |
| 10,350.0                    | 41.59              | 359.49           | 10,257.3                    | -36.6              | 1,035.7            | 172.4                         | 10.00                         | 10.00                        | 0.00                        |
| 10,400.0                    | 46.59              | 359.49           | 10,293.2                    | -1.8               | 1,035.4            | 206.4                         | 10.00                         | 10.00                        | 0.00                        |
| 10,450.0                    | 51.59              | 359.49           | 10,325.9                    | 36.0               | 1,035.1            | 243.3                         | 10.00                         | 10.00                        | 0.00                        |
| 10,500.0                    | 56.59              | 359.49           | 10,355.3                    | 76.4               | 1,034.7            | 282.9                         | 10.00                         | 10.00                        | 0.00                        |
| 10,550.0                    | 61.59              | 359.49           | 10,380.9                    | 119.3              | 1,034.3            | 324.8                         | 10.00                         | 10.00                        | 0.00                        |
| 10,600.0                    | 66.59              | 359.49           | 10,402.8                    | 164.3              | 1,033.9            | 368.8                         | 10.00                         | 10.00                        | 0.00                        |
| 10,650.0                    | 71.59              | 359.49           | 10,420.6                    | 211.0              | 1,033.5            | 414.5                         | 10.00                         | 10.00                        | 0.00                        |
| 10,700.0                    | 76.59              | 359.49           | 10,434.3                    | 259.0              | 1,033.1            | 461.5                         | 10.00                         | 10.00                        | 0.00                        |
| 10,750.0                    | 81.59              | 359.49           | 10,443.8                    | 308.1              | 1,032.6            | 509.4                         | 10.00                         | 10.00                        | 0.00                        |
| 10,800.0                    |                    | 359.49           | 10,448.9                    | 357.8              |                    | 558.1                         |                               | 10.00                        | 0.00                        |
|                             | 86.59<br>90.00     | 359.49<br>359.49 |                             | 357.8<br>391.9     | 1,032.2            | 558.1<br>591.4                | 10.00                         | 10.00                        | 0.00                        |
| 10,834.1                    |                    |                  | 10,450.0                    |                    | 1,031.9            |                               | 10.00                         |                              |                             |
| 10,900.0                    | 90.00              | 359.49           | 10,450.0                    | 457.8              | 1,031.3            | 655.8                         | 0.00                          | 0.00                         | 0.00                        |
| 11,000.0<br>11,100.0        | 90.00<br>90.00     | 359.49<br>359.49 | 10,450.0<br>10,450.0        | 557.8<br>657.8     | 1,030.4<br>1,029.5 | 753.6<br>851.4                | 0.00<br>0.00                  | 0.00<br>0.00                 | 0.00<br>0.00                |
|                             |                    |                  |                             |                    |                    |                               |                               |                              |                             |
| 11,200.0                    | 90.00              | 359.49           | 10,450.0                    | 757.8              | 1,028.6            | 949.1                         | 0.00                          | 0.00                         | 0.00                        |
| 11,300.0                    | 90.00              | 359.49           | 10,450.0                    | 857.8              | 1,027.7            | 1,046.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,400.0                    | 90.00              | 359.49           | 10,450.0                    | 957.8              | 1,026.8            | 1,144.7                       | 0.00                          | 0.00                         | 0.00                        |
| 11,500.0                    | 90.00              | 359.49           | 10,450.0                    | 1,057.8            | 1,026.0            | 1,242.5                       | 0.00                          | 0.00                         | 0.00                        |
| 11,600.0                    | 90.00              | 359.49           | 10,450.0                    | 1,157.8            | 1,025.1            | 1,340.2                       | 0.00                          | 0.00                         | 0.00                        |
| 11,700.0                    | 90.00              | 359.49           | 10,450.0                    | 1,257.8            | 1,024.2            | 1,438.0                       | 0.00                          | 0.00                         | 0.00                        |
| 11,800.0                    | 90.00              | 359.49           | 10,450.0                    | 1,357.8            | 1,023.3            | 1,535.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,900.0                    | 90.00              | 359.49           | 10,450.0                    | 1,457.8            | 1,022.4            | 1,633.6                       | 0.00                          | 0.00                         | 0.00                        |
| 12,000.0                    | 90.00              | 359.49           | 10,450.0                    | 1,557.8            | 1,021.5            | 1,731.3                       | 0.00                          | 0.00                         | 0.00                        |
| 12,100.0                    | 90.00              | 359.49           | 10,450.0                    | 1,657.7            | 1,020.6            | 1,829.1                       | 0.00                          | 0.00                         | 0.00                        |
| 12,200.0                    | 90.00              | 359.49           | 10,450.0                    | 1,757.7            | 1,019.7            | 1,926.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,300.0                    | 90.00              | 359.49           | 10,450.0                    | 1,857.7            | 1,018.8            | 2,024.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,400.0                    | 90.00              | 359.49           | 10,450.0                    | 1,957.7            | 1,017.9            | 2,122.4                       | 0.00                          | 0.00                         | 0.00                        |
| 12,500.0                    | 90.00              | 359.49           | 10,450.0                    | 2,057.7            | 1,017.0            | 2,220.2                       | 0.00                          | 0.00                         | 0.00                        |
| 12,600.0                    | 90.00              | 359.49           | 10,450.0                    | 2,157.7            | 1,016.2            | 2,318.0                       | 0.00                          | 0.00                         | 0.00                        |
|                             |                    |                  |                             |                    |                    |                               |                               |                              |                             |
| 12,700.0                    | 90.00              | 359.49           | 10,450.0                    | 2,257.7            | 1,015.3            | 2,415.8                       | 0.00                          | 0.00                         | 0.00                        |
| 12,729.3                    | 90.00              | 359.49           | 10,450.0                    | 2,287.0            | 1,015.0            | 2,444.4                       | 0.00                          | 0.00                         | 0.00                        |
| 12,730.8                    | 90.00              | 359.46           | 10,450.0                    | 2,288.5            | 1,015.0            | 2,445.9                       | 2.00                          | 0.08                         | -2.00                       |
| 12,800.0                    | 90.00              | 359.46           | 10,450.0                    | 2,357.7            | 1,014.3            | 2,513.5                       | 0.00                          | 0.00                         | 0.00                        |
| 12,900.0                    | 90.00              | 359.46           | 10,450.0                    | 2,457.7            | 1,013.4            | 2,611.3                       | 0.00                          | 0.00                         | 0.00                        |
| 13,000.0                    | 90.00              | 359.46           | 10,450.0                    | 2,557.7            | 1,012.4            | 2,709.0                       | 0.00                          | 0.00                         | 0.00                        |
| 13,100.0                    | 90.00              | 359.46           | 10,450.0                    | 2,657.7            | 1,011.5            | 2,806.8                       | 0.00                          | 0.00                         | 0.00                        |
| 13,200.0                    | 90.00              | 359.46           | 10,450.0                    | 2,757.7            | 1,010.6            | 2,904.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,300.0                    | 90.00              | 359.46           | 10,450.0                    | 2,857.7            | 1,009.6            | 3,002.3                       | 0.00                          | 0.00                         | 0.00                        |
| 13,400.0                    | 90.00              | 359.46           | 10,450.0                    | 2,957.7            | 1,008.7            | 3,100.1                       | 0.00                          | 0.00                         | 0.00                        |
| 13,500.0                    | 90.00              | 359.46           | 10,450.0                    | 3,057.7            | 1,007.7            | 3,197.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,600.0                    | 90.00              | 359.46           | 10,450.0                    | 3,157.7            | 1,006.8            | 3,295.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,700.0                    | 90.00              | 359.46           | 10,450.0                    | 3,257.7            | 1,005.8            | 3,393.4                       | 0.00                          | 0.00                         | 0.00                        |
| 13,800.0                    | 90.00              | 359.46           | 10,450.0                    | 3,357.7            | 1,004.9            | 3,491.2                       | 0.00                          | 0.00                         | 0.00                        |
| 13,900.0                    | 90.00              | 359.46           | 10,450.0                    | 3,457.7            | 1,003.9            | 3,588.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,000.0                    | 90.00              | 359.46           | 10,450.0                    | 3,557.7            | 1,003.0            | 3,686.7                       | 0.00                          | 0.00                         | 0.00                        |
| 14,100.0                    | 90.00              | 359.46           | 10,450.0                    | 3,657.7            | 1,002.1            | 3,784.4                       | 0.00                          | 0.00                         | 0.00                        |
| 14,200.0                    | 90.00              | 359.46           | 10,450.0                    | 3,757.7            | 1,001.1            | 3,882.2                       | 0.00                          | 0.00                         | 0.00                        |
| 14,300.0                    | 90.00              | 359.46           | 10,450.0                    | 3,857.7            | 1,000.2            | 3,980.0                       | 0.00                          | 0.00                         | 0.00                        |
| 14,400.0                    | 90.00              | 359.46           | 10,450.0                    | 3,957.6            | 999.2              | 4,077.7                       | 0.00                          | 0.00                         | 0.00                        |
|                             |                    |                  | 10,450.0                    |                    | 998.3              |                               | 0.00                          |                              | 0.00                        |
| 14,500.0<br>14,600.0        | 90.00<br>90.00     | 359.46<br>359.46 | 10,450.0                    | 4,057.6<br>4,157.6 | 998.3<br>997.3     | 4,175.5<br>4,273.3            | 0.00                          | 0.00<br>0.00                 | 0.00                        |

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**Planning Report** 

| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #403H            |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25' @ 3304.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25' @ 3304.0usft |
| Site:     | Barlow 34 Fed Com           | North Reference:             | Grid                  |
| Well:     | #403H                       | Survey Calculation Method:   | Minimum Curvature     |
| Wellbore: | ОН                          |                              |                       |
| Design:   | Plan #0.1                   |                              |                       |

Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 14,700.0                    | 90.00              | 359.46         | 10,450.0                    | 4,257.6         | 996.4           | 4,371.0                       | 0.00                          | 0.00                         | 0.00                        |
| 14,800.0                    | 90.00              | 359.46         | 10,450.0                    | 4,357.6         | 995.4           | 4,468.8                       | 0.00                          | 0.00                         | 0.00                        |
| 14,900.0                    | 90.00              | 359.46         | 10,450.0                    | 4,457.6         | 994.5           | 4,566.6                       | 0.00                          | 0.00                         | 0.00                        |
| 15,000.0                    | 90.00              | 359.46         | 10,450.0                    | 4,557.6         | 993.6           | 4,664.3                       | 0.00                          | 0.00                         | 0.00                        |
| 15,100.0                    | 90.00              | 359.46         | 10,450.0                    | 4,657.6         | 992.6           | 4,762.1                       | 0.00                          | 0.00                         | 0.00                        |
| 15,200.0                    | 90.00              | 359.46         | 10,450.0                    | 4,757.6         | 991.7           | 4,859.8                       | 0.00                          | 0.00                         | 0.00                        |
| 15,270.4                    | 90.00              | 359.46         | 10,450.0                    | 4,828.0         | 991.0           | 4,928.7                       | 0.00                          | 0.00                         | 0.00                        |

| Design Targets   |                       |                       |                         |                        |                           |                    |                   |              |               |
|--|-----------------------|-----------------------|-------------------------|------------------------|---------------------------|--------------------|-------------------|--------------|---------------|
| Target Name<br>- hit/miss target<br>- Shape                  | Dip Angle<br>(°)      | Dip Dir.<br>(°)       | TVD<br>(usft)           | +N/-S<br>(usft)        | +E/-W<br>(usft)           | Northing<br>(usft) | Easting<br>(usft) | Latitude     | Longitude     |
| KOP (Barlow 34 Fed Co<br>- plan hits target cent<br>- Point  | 0.00<br>er            | 0.00                  | 9,877.0                 | -181.0                 | 1,037.0                   | 364,740.00         | 780,967.00        | 32.0003953°N | 103.5603122°W |
| LTP/PBHL (Barlow 34 Fŧ<br>- plan hits target cent<br>- Point | 0.00<br>er            | 0.00                  | 10,450.0                | 4,828.0                | 991.0                     | 369,749.00         | 780,921.00        | 32.0141647°N | 103.5603451°W |
| FTP (Barlow 34 Fed Cor<br>- plan misses target o<br>- Point  | 0.00<br>center by 202 | 0.00<br>9usft at 104. | 10,450.0<br>05.1usft MD | -131.0<br>(10296.7 TVE | 1,037.0<br>), 1.9 N, 1035 | 364,790.00<br>4 E) | 780,967.00        | 32.0005328°N | 103.5603111°W |
| FPP (Barlow 34 Fed Cor<br>- plan hits target cent<br>- Point | 0.00<br>er            | 0.00                  | 10,450.0                | 2,287.0                | 1,015.0                   | 367,208.00         | 780,945.00        | 32.0071797°N | 103.5603263°W |

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| <b>OPERATOR'S NAME:</b> | EOG RESOURCES, INC.                |
|-------------------------|------------------------------------|
| LEASE NO.:              | NMNM02965A                         |
| WELL NAME & NO.:        | BARLOW FED COM 401H – 405H         |
| LOCATION:               | Section 34, T.26 S., R.33 E., NMPM |
| COUNTY:                 | LEA County, New Mexico             |

## COA

| H2S                  | O Yes            | No             |            |
|----------------------|------------------|----------------|------------|
| Potash               | None             | O Secretary    | © R-111-P  |
| Cave/Karst Potential | O Low            | Medium         | O High     |
| Variance             | O None           | Flex Hose      | O Other    |
| Wellhead             | Conventional     | Multibowl      | O Both     |
| Other                | □4 String Area   | Capitan Reef   | WIPP       |
| Other                | Fluid Filled     | Cement Squeeze | Pilot Hole |
| Special Requirements | □ Water Disposal | COM            | 🗆 Unit     |

#### A. Hydrogen Sulfide

 Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

#### **B.** CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately **900** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of  $\underline{8}$ <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- In <u>Medium/High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

#### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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### **D. SPECIAL REQUIREMENT (S)**

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

### JJP04072021

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after

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installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
  - Notify the BLM when moving in and removing the Spudder Rig.
  - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
  - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for

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details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

#### B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

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- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

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- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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## Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
  - Well control equipment
    - a. Flare line 150' from wellhead to be ignited by flare gun.
    - b. Choke manifold with a remotely operated choke.
    - c. Mud/gas separator
  - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
  - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  - c. Two wind socks will be placed in strategic locations, visible from all angles.

#### ■ Mud program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S 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 H2S service.

■ Communication:

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

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### EOG RESOURCES, INC. BARLOW 34 FED COM #403H

| Lea County Sheriff's Department         (575) 396-3611           Rod Coffman         Fire Department:           Carlsbad         (575) 885-3125           Artesia         (575) 746-5050           Hospitals:         (575) 748-7333           Hobbs         (575) 748-7333           Hobbs         (575) 748-7318           Pighway Department         (575) 748-718           Highway Department         (575) 748-718           U.S. Dept. of Labor         (575) 887-1174           EOG Resources, Inc.         EOG/Midland           EOG / Midland         Office (432) 686-3600           Company Drilling Consultants:         EOG           Jett Dueitt         Cell (432) 230-4840           Blake Burney         Cell (432) 686-3609           Cell (432) 686-3609         Cell (432) 686-3609           Cell (432) 686-3609         Cell (432) 686-3609           Cell (432) 686-3751         Cell (817) 480-1167           Jason Townsend         Office (432) 686-3751           M&P Drilling Superintendent         Cell (210) 776-5131           H&P Drilling Rig         Office (432) 630-5757           H&P Drilling Rig         Cell (817) 760-6374           H&P Drilling Rig         Cell (817) 760-6374           H&P Drilling Rig | PUBLIC SAFETY:                       | 2150   | 911 or         |
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| Artesia         (575) 746-5050           Hospitals:         Carlsbad         (575) 887-4121           Artesia         (575) 748-3333         Hobbs         (575) 392-1979           Dept. of Public Safety/Carlsbad         (575) 748-3733         Hobbs         (575) 392-1979           Dept. of Public Safety/Carlsbad         (575) 748-9718         Highway Department         (575) 885-3281           New Mexico Oil Conservation         (575) 887-1174         EOG Resources, Inc.         EOG / Midland         Office (432) 686-3600           Company Drilling Consultants:   | Fire Department:                     |        |                |
| Hospitals:(575) 887-4121<br>(575) 748-3333<br>(575) 748-3333<br>(575) 748-3333<br>(575) 748-3333<br>Hobbs(575) 748-3333<br>(575) 748-9718<br>Highway DepartmentDept. of Public Safety/Carlsbad(575) 748-9718<br>(575) 885-3281<br>New Mexico Oil Conservation(575) 748-9718<br>(575) 885-3281<br>New Mexico Oil ConservationNew Mexico Oil Conservation(575) 748-9718<br>(575) 887-1174EOG Resources, Inc.EOG / MidlandOffice (432) 686-3600Company Drilling Consultants:Jett DueittCellBlake BurneyOffice (432) 686-3609<br>Cell (432) 894-1256Drilling EngineerCellSteve MunsellOffice (432) 686-3609<br>Cell (432) 894-1256Drilling SuperintendentCell (817) 480-1167Jason TownsendOffice (432) 563-5757<br>R&P 415 Drilling RigH&P Drilling<br>H&P Drilling RigOffice (432) 563-5757<br>Rig (432) 230-4840Tool Pusher:Johnathan Craig<br>Brian Chandler (HSE Manager)Safety<br>Brian Chandler (HSE Manager)Office (432) 686-3695  | Carlsbad                             |        | (575) 885-3125 |
| $\begin{array}{c} Carlsbad \\ Artesia \\ Artesia \\ (575) 887-4121 \\ Artesia \\ (575) 748-3333 \\ Hobbs \\ (575) 392-1979 \\ C575) 392-1979 \\ Dept. of Public Safety/Carlsbad \\ (575) 748-9718 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 887-1174 \\ \hline \end{array}$  | Artesia                              |        | (575) 746-5050 |
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| Jett Ducitt         Cell         (432) 230-4840           Blake Burney         Drilling Engineer         Steve Munsell         Office         (432) 686-3609           Steve Munsell         Office         (432) 894-1256         Office         (432) 894-1256           Drilling Manager         Cell         (432) 686-3751         Cell         (817) 480-1167           Drilling Superintendent         Ison Townsend         Office         (432) 848-9209         Cell         (210) 776-5131           H&P Drilling         Office         (432) 563-5757         Kig         (432) 230-4840           Tool Pusher:         Office         (432) 230-4840         Safety           Brad Garrett         Safety         Cell         (817) 760-6374           Brian Chandler (HSE Manager)         Office         (432) 686-3695  | EOG / Midland                        | Office | (432) 686-3600 |
| Jett Dueitt       Cell       (432) 230-4840         Blake Burney       Drilling Engineer         Steve Munsell       Office (432) 686-3609         Cell       (432) 894-1256         Drilling Manager       Cell         Aj Dach       Office (432) 686-3751         Drilling Superintendent       Cell         Jason Townsend       Office (432) 848-9209         Cell       (210) 776-5131         H&P Drilling       Office (432) 563-5757         H&P Drilling Rig       Office (432) 563-5757         H&P A15 Drilling Rig       Cell         Tool Pusher:       Johnathan Craig         Johnathan Craig       Cell         Brad Garrett       Safety         Brian Chandler (HSE Manager)       Office (432) 686-3695   | <b>Company Drilling Consultants:</b> |        |                |
| Drilling Engineer         Steve Munsell       Office (432) 686-3609<br>Cell (432) 894-1256         Drilling Manager       Office (432) 686-3751<br>Cell (817) 480-1167         Aj Dach       Office (432) 686-3751<br>Cell (817) 480-1167         Drilling Superintendent       U         Jason Townsend       Office (432) 848-9209<br>Cell (210) 776-5131         H&P Drilling       Office (432) 563-5757         H&P Drilling Rig       Office (432) 563-5757         H&P 415 Drilling Rig       Office (432) 230-4840         Tool Pusher:       U         Johnathan Craig       Cell (817) 760-6374         Brad Garrett       Safety         Brian Chandler (HSE Manager)       Office (432) 686-3695  |                                      | Cell   | (432) 230-4840 |
| Steve Munsell       Office (432) 686-3609         Cell (432) 894-1256         Drilling Manager         Aj Dach       Office (432) 686-3751         Cell (817) 480-1167         Drilling Superintendent         Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig         Office (432) 563-5757         H&P 415 Drilling Rig         Tool Pusher:         Johnathan Craig         Brad Garrett         Safety         Brian Chandler (HSE Manager)         Office (432) 686-3695  | Blake Burney                         |        |                |
| Steve Munsell       Office (432) 686-3609         Cell (432) 894-1256         Drilling Manager         Aj Dach       Office (432) 686-3751         Cell (817) 480-1167         Drilling Superintendent         Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig         Office (432) 563-5757         H&P 415 Drilling Rig         Tool Pusher:         Johnathan Craig         Brad Garrett         Safety         Brian Chandler (HSE Manager)         Office (432) 686-3695  | Drilling Engineer                    |        |                |
| Drilling Manager           Aj Dach         Office (432) 686-3751<br>Cell (817) 480-1167           Drilling Superintendent         Cell (817) 480-1167           Jason Townsend         Office (432) 848-9209<br>Cell (210) 776-5131           H&P Drilling         Cell (210) 776-5131           H&P Drilling Rig         Office (432) 563-5757           H&P A15 Drilling Rig         Office (432) 230-4840           Tool Pusher:         Cell (817) 760-6374           Johnathan Craig         Cell (817) 760-6374           Brad Garrett         Office (432) 686-3695  | Steve Munsell                        | Office | (432) 686-3609 |
| Aj Dach       Office (432) 686-3751<br>Cell (817) 480-1167         Drilling Superintendent  |                                      | Cell   | (432) 894-1256 |
| Cell (817) 480-1167         Drilling Superintendent         Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig         Tool Pusher:         Johnathan Craig         Brad Garrett         Safety         Brian Chandler (HSE Manager)  | Drilling Manager                     |        |                |
| Drilling Superintendent       Office (432) 848-9209         Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131       Cell (210) 776-5131         H&P Drilling       Office (432) 563-5757         H&P 415 Drilling Rig       Office (432) 230-4840         Tool Pusher:       Safety         Johnathan Craig       Cell (817) 760-6374         Brian Chandler (HSE Manager)       Office (432) 686-3695   | Aj Dach                              | Office | (432) 686-3751 |
| Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig         Office (432) 563-5757         H&P 415 Drilling Rig         Tool Pusher:         Johnathan Craig         Brad Garrett         Safety         Brian Chandler (HSE Manager)         Office (432) 686-3695   |                                      | Cell   | (817) 480-1167 |
| Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig       Office (432) 563-5757         H&P 415 Drilling Rig       Rig (432) 230-4840         Tool Pusher:         Johnathan Craig       Cell (817) 760-6374         Brad Garrett       Cell (817) 760-6374         Safety         Brian Chandler (HSE Manager)       Office (432) 686-3695   | Drilling Superintendent              |        |                |
| H&P DrillingOffice (432) 563-5757H&P Drilling RigOffice (432) 230-4840Tool Pusher:RigJohnathan CraigCellBrad GarrettCellSafetySafetyBrian Chandler (HSE Manager)Office (432) 686-3695   | Jason Townsend                       | Office | (432) 848-9209 |
| H&P Drilling<br>H&P 415 Drilling RigOffice (432) 563-5757<br>Rig (432) 230-4840Tool Pusher:<br>Johnathan Craig<br>Brad GarrettCell (817) 760-6374Safety<br>Brian Chandler (HSE Manager)Office (432) 686-3695  |                                      | Cell   | (210) 776-5131 |
| H&P 415 Drilling RigRig(432) 230-4840Tool Pusher:   | H&P Drilling                         |        |                |
| Tool Pusher:Johnathan Craig<br>Brad GarrettSafety<br>Brian Chandler (HSE Manager)Office (432) 686-3695  | H&P Drilling                         | Office | (432) 563-5757 |
| Johnathan Craig<br>Brad GarrettCell (817) 760-6374Safety<br>Brian Chandler (HSE Manager)Office (432) 686-3695   | H&P 415 Drilling Rig                 | Rig    | (432) 230-4840 |
| Brad Garrett Safety Brian Chandler (HSE Manager) Office (432) 686-3695  | Tool Pusher:                         |        |                |
| SafetyBrian Chandler (HSE Manager)Office (432) 686-3695   | Johnathan Craig                      | Cell   | (817) 760-6374 |
| Brian Chandler (HSE Manager)Office (432) 686-3695   | -                                    |        |                |
|   | Safety                               |        |                |
| Cell (817) 239-0251   | Brian Chandler (HSE Manager)         | Office | (432) 686-3695 |
|   |                                      | Cell   | (817) 239-0251 |

## **Emergency Assistance Telephone List**

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

| Operator:         | OGRID:  |
|-------------------|---|
| EOG RESOURCES INC | 7377  |
| P.O. Box 2267     | Action Number:  |
| Midland, TX 79702 | 27789   |
|                   | Action Type:  |
|                   | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

#### CONDITIONS

| Created<br>By | Condition  | Condition<br>Date |
|---------------|--|-------------------|
| pkautz        | Will require a File As Drilled C-102 and a Directional Survey with the C-104   | 6/24/2021         |
|               | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string | 6/24/2021         |

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