

**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**

Form C-101

August 1, 2011

Permit 277407

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|                                                                                         |                                          |                               |
|-----------------------------------------------------------------------------------------|------------------------------------------|-------------------------------|
| 1. Operator Name and Address<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 |                                          | 2. OGRID Number<br>7377       |
|                                                                                         |                                          | 3. API Number<br>30-025-46782 |
| 4. Property Code<br>317562                                                              | 5. Property Name<br>FRAZIER 27 STATE COM | 6. Well No.<br>208H           |

**7. Surface Location**

|               |               |                 |              |              |                   |               |                   |               |               |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-------------------|---------------|---------------|
| UL - Lot<br>C | Section<br>27 | Township<br>24S | Range<br>33E | Lot Idn<br>C | Feet From<br>1159 | N/S Line<br>N | Feet From<br>1783 | E/W Line<br>W | County<br>Lea |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-------------------|---------------|---------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                  |               |                   |               |               |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|-------------------|---------------|---------------|
| UL - Lot<br>N | Section<br>34 | Township<br>24S | Range<br>33E | Lot Idn<br>N | Feet From<br>100 | N/S Line<br>S | Feet From<br>1649 | E/W Line<br>W | County<br>Lea |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|-------------------|---------------|---------------|

**9. Pool Information**

|                      |       |
|----------------------|-------|
| TRIPLE X;BONE SPRING | 59900 |
|----------------------|-------|

**Additional Well Information**

|                           |                             |                                        |                         |                                    |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>OIL        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3506 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>19897 | 18. Formation<br>Bone Spring           | 19. Contractor          | 20. Spud Date<br>3/31/2020         |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 54.5             | 1245          | 920             | 0             |
| Int1 | 12.25     | 9.625       | 40               | 4000          | 510             | 0             |
| Int1 | 12.25     | 9.625       | 40               | 5050          | 350             | 0             |
| Prod | 8.75      | 5.5         | 17               | 9970          | 500             | 0             |
| Prod | 8.5       | 5.5         | 17               | 19897         | 2820            | 4550          |

**Casing/Cement Program: Additional Comments**

|  |
|--|
|  |
|--|

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 3000             | 3000          |              |

|                                                                                                                                                                                                                                                                                                    |                                    |                                  |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|--------------|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. |                                    | <b>OIL CONSERVATION DIVISION</b> |              |
| Signature:                                                                                                                                                                                                                                                                                         |                                    |                                  |              |
| Printed Name:                                                                                                                                                                                                                                                                                      | Electronically filed by Kay Maddox | Approved By:                     | Paul F Kautz |
| Title:                                                                                                                                                                                                                                                                                             | Regulatory Agent                   | Title:                           | Geologist    |
| Email Address:                                                                                                                                                                                                                                                                                     | kay_maddox@eogresources.com        | Approved Date:                   | 1/27/2020    |
| Date:                                                                                                                                                                                                                                                                                              | 1/20/2020                          | Phone:                           | 432-686-3658 |
|                                                                                                                                                                                                                                                                                                    |                                    | Expiration Date:                 | 1/27/2022    |
|                                                                                                                                                                                                                                                                                                    |                                    | Conditions of Approval Attached  |              |

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**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 746-3460 Fax: (505) 746-3462

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

**FORM C-102**

Revised August 1, 2011

**Submit one copy to appropriate**

## District Office

☐ **AMENDED REPORT**

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                      |                                                    |                                                                         |
|--------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------|
| <sup>1</sup> API Number<br>30-025-   | <sup>2</sup> Pool Code<br>96682                    | <sup>3</sup> Pool Name<br>TRISTE DRAW; BONE SPRING, EAST                |
| <sup>4</sup> Property Code<br>317562 | <sup>5</sup> Property Name<br>FRAZIER 27 STATE COM |                                                                         |
| <sup>7</sup> GRID No.<br>7377        | <sup>8</sup> Operator Name<br>EOG RESOURCES, INC.  | <sup>6</sup> Well Number<br>208H<br><br><sup>9</sup> Elevation<br>3506' |

<sup>10</sup>Surface Location

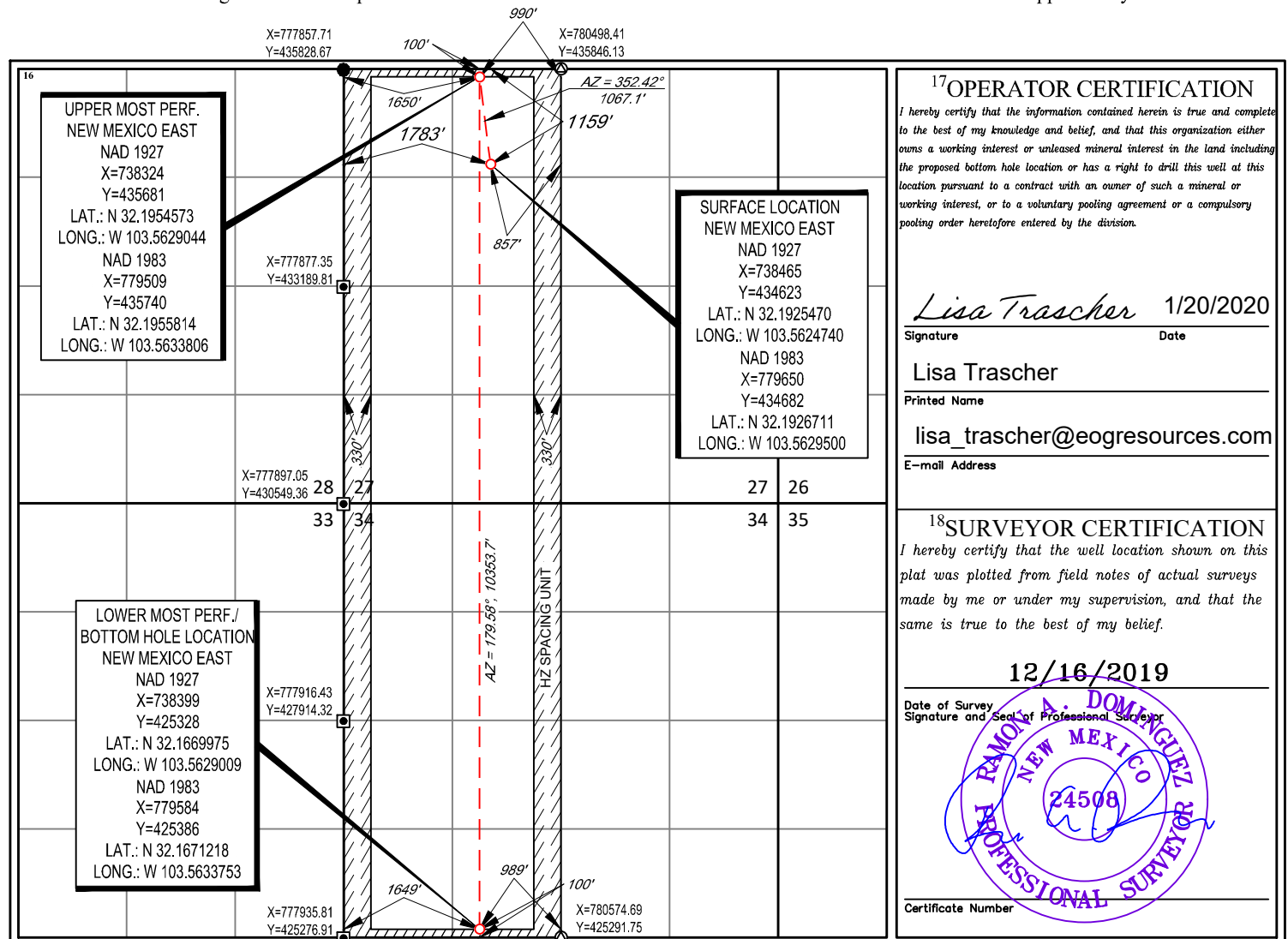
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C             | 27      | 24-S     | 33-E  | -       | 1159'         | NORTH            | 1783'         | WEST           | LEA    |

<sup>11</sup>Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 34      | 24-S     | 33-E  | -       | 100'          | SOUTH            | 1649'         | WEST           | LEA    |

|                                                |                               |                                  |                         |
|------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>640.00</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|------------------------------------------------|-------------------------------|----------------------------------|-------------------------|

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

## GAS CAPTURE PLAN

Date: 1/27/2020

☒ Original

Operator & OGRID No.: [7377] EOG RESOURCES INC

☐ 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 (ULSTR) | Footages    | Expected MCF/D | Flared or Vented | Comments                                                                                                                  |
|----------------------------|--------------|-----------------------|-------------|----------------|------------------|---------------------------------------------------------------------------------------------------------------------------|
| FRAZIER 27 STATE COM #208H | 30-025-46782 | C-27-24S-33E          | 1159N 1783W | 75             | None             | CTB already connected to EOG low pressure gathering system. MMCF/D is +/- Gather: EOG Resources to Abu Compressor Station |

### **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 EOG RESOURCES INC and will be connected to EOG RESOURCES INC Low Pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. EOG RESOURCES INC provides (periodically) to EOG RESOURCES INC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, EOG RESOURCES INC and EOG RESOURCES INC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at EOG RESOURCES INC Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, 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 EOG RESOURCES INC system at that time. Based on current information, it is EOG RESOURCES INC's 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
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Form APD Comments

Permit 277407

PERMIT COMMENTS

|                                                                                              |         |                                     |
|----------------------------------------------------------------------------------------------|---------|-------------------------------------|
| Operator Name and Address:<br>EOG RESOURCES INC [7377]<br>P.O. Box 2267<br>Midland, TX 79702 |         | API Number:<br>30-025-46782         |
|                                                                                              |         | Well:<br>FRAZIER 27 STATE COM #208H |
| Created By                                                                                   | Comment | Comment Date                        |

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

Form APD Conditions

Permit 277407

PERMIT CONDITIONS OF APPROVAL

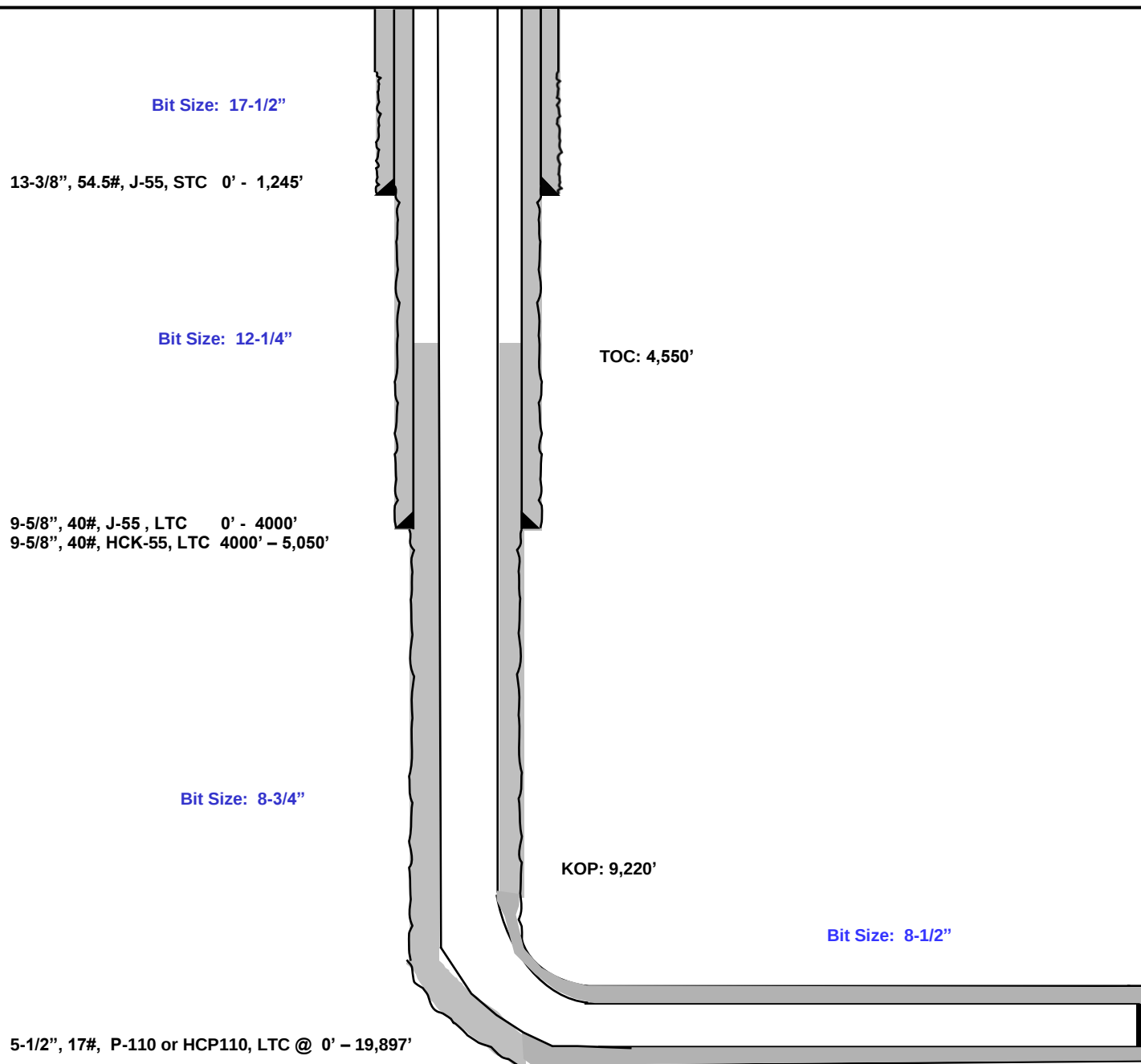
|                                                                                              |                                     |
|----------------------------------------------------------------------------------------------|-------------------------------------|
| Operator Name and Address:<br>EOG RESOURCES INC [7377]<br>P.O. Box 2267<br>Midland, TX 79702 | API Number:<br>30-025-46782         |
|                                                                                              | Well:<br>FRAZIER 27 STATE COM #208H |
| OCD Reviewer                                                                                 | Condition                           |

Frazier 27 Fed Com #208H  
Lea County, New Mexico

## Proposed Wellbore

1159' FNL  
1783' FWL  
Section 27  
T-24-S, R-33-E

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

KB: 3,531'  
GL: 3,506'

Lateral: 19,897' MD, 9,586' TVD  
BH Location: 100' FSL & 1649' FWL  
Section 34  
T-24-S, R-33-E

**EOG RESOURCES, INC.**  
**FRAZIER 27 STATE COM #208H**

**Permit Information:**

Well Name: Frazier 27 State Com #208H

**Location:**

SHL: 1159' FNL & 1783' FWL, Section 27, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 1649' FWL, Section 34, T-24-S, R-33-E, Lea Co., N.M.

**Casing Program:**

| Hole Size | Interval         | Csg OD  | Weight | Grade   | Conn | DF <sub>min</sub> Collapse | DF <sub>min</sub> Burst | DF <sub>min</sub> Tension |
|-----------|------------------|---------|--------|---------|------|----------------------------|-------------------------|---------------------------|
| 17.5"     | 0' – 1,245'      | 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"    | 4000' – 5050'    | 9.625"  | 40#    | HCK-55  | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 8.75"     | 0' – 9,970'      | 5.5"    | 17#    | HCP-110 | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 8.5"      | 9,970' – 19,897' | 5.5"    | 17#    | HCP-110 | LTC  | 1.125                      | 1.25                    | 1.60                      |

**Cement Program:**

| Depth   | No. Sacks | Wt. ppg | Yld Ft <sup>3</sup> /ft | Slurry Description                                                                               |
|---------|-----------|---------|-------------------------|--------------------------------------------------------------------------------------------------|
| 1,245'  | 760       | 13.5    | 1.73                    | Lead: Class C + 4.0% Bentonite + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface) |
|         | 160       | 14.8    | 1.34                    | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate                   |
| 5,050'  | 510       | 9.0     | 3.5                     | Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)                           |
|         | 350       | 14.4    | 1.20                    | Tail: Class C + 10% NaCl + 3% MagOx                                                              |
| 19,897' | 500       | 11.0    | 3.21                    | Lead: Class C + 3% CaCl <sub>2</sub> + 3% Microbond (TOC @ 4,550')                               |
|         | 2,820     | 14.4    | 1.2                     | Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond                                     |

**Mud Program:**

| Depth                       | Type        | Weight (ppg) | Viscosity | Water Loss |
|-----------------------------|-------------|--------------|-----------|------------|
| 0' – 1,245'                 | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,245' – 5,050'             | Brine       | 10.0-10.2    | 28-34     | N/c        |
| 5,050' – 9,220'             | Cut Brine   | 8.4-9.0      | 28-34     | N/c        |
| 9,220' – 19,897'<br>Lateral | Oil Base    | 9.0-9.5      | 40-42     | 8-10       |

**EOG RESOURCES, INC.  
FRAZIER 27 STATE COM #208H**

## **Hydrogen Sulfide Plan Summary**

- A. All personnel shall receive proper H<sub>2</sub>S 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/Escapes 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

- H<sub>2</sub>S 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.

**EOG RESOURCES, INC.  
FRAZIER 27 STATE COM #208H**

- **Mud program:**  
The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H<sub>2</sub>S bearing zones.
- **Metallurgy:**  
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.
- **Communication:**  
Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC.  
FRAZIER 27 STATE COM #208H**

**Emergency Assistance Telephone List**

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

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

**EOG Resources, Inc.**

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

**Company Drilling Consultants:**

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

**Drilling Engineer**

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

**Tool Pusher:**

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

**Safety**

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



## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Frazier 27 State Com

#208H

OH

Plan: Plan #0.1

## **Standard Planning Report**

10 January, 2020



## Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM                         | <b>Local Co-ordinate Reference:</b> | Well #208H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3531.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3531.0usft |
| <b>Site:</b>     | Frazier 27 State Com        | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #208H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

|                    |                             |                      |                |
|--------------------|-----------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NAD 83 NME) |                      |                |
| <b>Map System:</b> | US State Plane 1983         | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983   |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone     |                      |                |

| Site                  |          | Frazier 27 State Com |                 |                   |                   |
|-----------------------|----------|----------------------|-----------------|-------------------|-------------------|
| Site Position:        |          | Northing:            | 434,765.00 usft | Latitude:         | 32° 11' 34.246 N  |
| From:                 | Map      | Easting:             | 782,361.00 usft | Longitude:        | 103° 33' 15.061 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:         | 13-3/16 "       | Grid Convergence: | 0.42              |

|                      |          |               |                     |                 |               |                   |
|----------------------|----------|---------------|---------------------|-----------------|---------------|-------------------|
| Well                 | #208H    |               |                     |                 |               |                   |
| Well Position        | +N/-S    | -83.0 usft    | Northing:           | 434,682.00 usft | Latitude:     | 32° 11' 33.618 N  |
|                      | +E/-W    | -2,711.0 usft | Easting:            | 779,650.00 usft | Longitude:    | 103° 33' 46.615 W |
| Position Uncertainty | 0.0 usft |               | Wellhead Elevation: |                 | Ground Level: | 3,506.0 usft      |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 1/10/2020          | 6.67                   | 60.00                | 47,655.97039835            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #0.1                      |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                  | 180.41               |

|                                 |                        |                          |                  |                |
|---------------------------------|------------------------|--------------------------|------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 1/10/2020                |                  |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Remarks</b> |
| 1                               | 0.0                    | 19,897.1 Plan #0.1 (OH)  | EOG MWD+IFR1     |                |
|                                 |                        |                          | MWD + IFR1       |                |

|                              |                        |                    |                              |                     |                     |                                |                               |                              |                |                      |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|----------------------|
| <b>Plan Sections</b>         |                        |                    |                              |                     |                     |                                |                               |                              |                |                      |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> | <b>TFO (°)</b> | <b>Target</b>        |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                 | 0.0                 | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 1,500.0                      | 0.00                   | 0.00               | 1,500.0                      | 0.0                 | 0.0                 | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 2,093.5                      | 11.87                  | 352.75             | 2,089.2                      | 60.8                | -7.7                | 2.00                           | 2.00                          | 0.00                         | 352.75         |                      |
| 6,928.4                      | 11.87                  | 352.75             | 6,820.8                      | 1,047.2             | -133.3              | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 7,521.8                      | 0.00                   | 0.01               | 7,410.0                      | 1,108.0             | -141.0              | 2.00                           | -2.00                         | 0.00                         | 180.00         |                      |
| 9,220.3                      | 0.00                   | 0.01               | 9,108.5                      | 1,108.0             | -141.0              | 0.00                           | 0.00                          | 0.00                         | 0.00           | KOP(Frazier 27 SC #: |
| 9,970.3                      | 90.00                  | 179.59             | 9,586.0                      | 630.5               | -137.6              | 12.00                          | 12.00                         | 23.94                        | 179.59         |                      |
| 19,897.1                     | 90.00                  | 179.59             | 9,586.0                      | -9,296.0            | -66.0               | 0.00                           | 0.00                          | 0.00                         | 0.00           | PBHL(Frazier 27 SC # |



## Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM                         | <b>Local Co-ordinate Reference:</b> | Well #208H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3531.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3531.0usft |
| <b>Site:</b>     | Frazier 27 State Com        | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #208H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0               | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0               | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0               | 2.00            | 352.75      | 1,600.0               | 1.7          | -0.2         | -1.7                    | 2.00                    | 2.00                   | 0.00                  |
| 1,700.0               | 4.00            | 352.75      | 1,699.8               | 6.9          | -0.9         | -6.9                    | 2.00                    | 2.00                   | 0.00                  |
| 1,800.0               | 6.00            | 352.75      | 1,799.5               | 15.6         | -2.0         | -15.6                   | 2.00                    | 2.00                   | 0.00                  |
| 1,900.0               | 8.00            | 352.75      | 1,898.7               | 27.7         | -3.5         | -27.6                   | 2.00                    | 2.00                   | 0.00                  |
| 2,000.0               | 10.00           | 352.75      | 1,997.5               | 43.2         | -5.5         | -43.1                   | 2.00                    | 2.00                   | 0.00                  |
| 2,093.5               | 11.87           | 352.75      | 2,089.2               | 60.8         | -7.7         | -60.7                   | 2.00                    | 2.00                   | 0.00                  |
| 2,100.0               | 11.87           | 352.75      | 2,095.6               | 62.1         | -7.9         | -62.0                   | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 11.87           | 352.75      | 2,193.5               | 82.5         | -10.5        | -82.4                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 11.87           | 352.75      | 2,291.3               | 102.9        | -13.1        | -102.8                  | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 11.87           | 352.75      | 2,389.2               | 123.3        | -15.7        | -123.2                  | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 11.87           | 352.75      | 2,487.1               | 143.7        | -18.3        | -143.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 11.87           | 352.75      | 2,584.9               | 164.1        | -20.9        | -164.0                  | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 11.87           | 352.75      | 2,682.8               | 184.5        | -23.5        | -184.3                  | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 11.87           | 352.75      | 2,780.7               | 204.9        | -26.1        | -204.7                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 11.87           | 352.75      | 2,878.5               | 225.3        | -28.7        | -225.1                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 11.87           | 352.75      | 2,976.4               | 245.7        | -31.3        | -245.5                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 11.87           | 352.75      | 3,074.2               | 266.1        | -33.9        | -265.9                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 11.87           | 352.75      | 3,172.1               | 286.5        | -36.5        | -286.3                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 11.87           | 352.75      | 3,270.0               | 306.9        | -39.1        | -306.6                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 11.87           | 352.75      | 3,367.8               | 327.3        | -41.7        | -327.0                  | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 11.87           | 352.75      | 3,465.7               | 347.7        | -44.3        | -347.4                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 11.87           | 352.75      | 3,563.6               | 368.1        | -46.8        | -367.8                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 11.87           | 352.75      | 3,661.4               | 388.5        | -49.4        | -388.2                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 11.87           | 352.75      | 3,759.3               | 408.9        | -52.0        | -408.6                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 11.87           | 352.75      | 3,857.1               | 429.4        | -54.6        | -429.0                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 11.87           | 352.75      | 3,955.0               | 449.8        | -57.2        | -449.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 11.87           | 352.75      | 4,052.9               | 470.2        | -59.8        | -469.7                  | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 11.87           | 352.75      | 4,150.7               | 490.6        | -62.4        | -490.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 11.87           | 352.75      | 4,248.6               | 511.0        | -65.0        | -510.5                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 11.87           | 352.75      | 4,346.5               | 531.4        | -67.6        | -530.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 11.87           | 352.75      | 4,444.3               | 551.8        | -70.2        | -551.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 11.87           | 352.75      | 4,542.2               | 572.2        | -72.8        | -571.6                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 11.87           | 352.75      | 4,640.0               | 592.6        | -75.4        | -592.0                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 11.87           | 352.75      | 4,737.9               | 613.0        | -78.0        | -612.4                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 11.87           | 352.75      | 4,835.8               | 633.4        | -80.6        | -632.8                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 11.87           | 352.75      | 4,933.6               | 653.8        | -83.2        | -653.2                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 11.87           | 352.75      | 5,031.5               | 674.2        | -85.8        | -673.6                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 11.87           | 352.75      | 5,129.3               | 694.6        | -88.4        | -693.9                  | 0.00                    | 0.00                   | 0.00                  |



## Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM                         | <b>Local Co-ordinate Reference:</b> | Well #208H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3531.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3531.0usft |
| <b>Site:</b>     | Frazier 27 State Com        | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #208H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,300.0               | 11.87           | 352.75      | 5,227.2               | 715.0        | -91.0        | -714.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 11.87           | 352.75      | 5,325.1               | 735.4        | -93.6        | -734.7                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 11.87           | 352.75      | 5,422.9               | 755.8        | -96.2        | -755.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 11.87           | 352.75      | 5,520.8               | 776.2        | -98.8        | -775.5                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 11.87           | 352.75      | 5,618.7               | 796.6        | -101.4       | -795.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 11.87           | 352.75      | 5,716.5               | 817.0        | -104.0       | -816.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 11.87           | 352.75      | 5,814.4               | 837.4        | -106.6       | -836.6                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 11.87           | 352.75      | 5,912.2               | 857.8        | -109.2       | -857.0                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 11.87           | 352.75      | 6,010.1               | 878.2        | -111.8       | -877.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 11.87           | 352.75      | 6,108.0               | 898.6        | -114.4       | -897.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 11.87           | 352.75      | 6,205.8               | 919.0        | -117.0       | -918.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 11.87           | 352.75      | 6,303.7               | 939.4        | -119.5       | -938.6                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 11.87           | 352.75      | 6,401.6               | 959.8        | -122.1       | -958.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 11.87           | 352.75      | 6,499.4               | 980.2        | -124.7       | -979.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 11.87           | 352.75      | 6,597.3               | 1,000.6      | -127.3       | -999.7                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 11.87           | 352.75      | 6,695.1               | 1,021.0      | -129.9       | -1,020.1                | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 11.87           | 352.75      | 6,793.0               | 1,041.4      | -132.5       | -1,040.5                | 0.00                    | 0.00                   | 0.00                  |
| 6,928.4               | 11.87           | 352.75      | 6,820.8               | 1,047.2      | -133.3       | -1,046.3                | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 10.44           | 352.75      | 6,891.0               | 1,061.0      | -135.0       | -1,060.0                | 2.00                    | -2.00                  | 0.00                  |
| 7,100.0               | 8.44            | 352.75      | 6,989.7               | 1,077.2      | -137.1       | -1,076.2                | 2.00                    | -2.00                  | 0.00                  |
| 7,200.0               | 6.44            | 352.75      | 7,088.8               | 1,090.1      | -138.7       | -1,089.1                | 2.00                    | -2.00                  | 0.00                  |
| 7,300.0               | 4.44            | 352.75      | 7,188.4               | 1,099.5      | -139.9       | -1,098.5                | 2.00                    | -2.00                  | 0.00                  |
| 7,400.0               | 2.44            | 352.75      | 7,288.2               | 1,105.4      | -140.7       | -1,104.4                | 2.00                    | -2.00                  | 0.00                  |
| 7,500.0               | 0.44            | 352.75      | 7,388.2               | 1,107.9      | -141.0       | -1,106.9                | 2.00                    | -2.00                  | 0.00                  |
| 7,521.8               | 0.00            | 0.01        | 7,410.0               | 1,108.0      | -141.0       | -1,107.0                | 2.00                    | -2.00                  | 0.00                  |
| 7,600.0               | 0.00            | 0.00        | 7,488.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 0.00            | 0.00        | 7,588.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 0.00            | 0.00        | 7,688.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 0.00            | 0.00        | 7,788.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 0.00            | 0.00        | 7,888.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 0.00            | 0.00        | 7,988.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 0.00            | 0.00        | 8,088.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 0.00            | 0.00        | 8,188.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 0.00            | 0.00        | 8,288.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 0.00            | 0.00        | 8,388.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 0.00            | 0.00        | 8,488.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 0.00            | 0.00        | 8,588.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 0.00            | 0.00        | 8,688.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 0.00            | 0.00        | 8,788.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 0.00            | 0.00        | 8,888.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 0.00            | 0.00        | 8,988.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 0.00            | 0.00        | 9,088.2               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 9,220.3               | 0.00            | 0.01        | 9,108.5               | 1,108.0      | -141.0       | -1,107.0                | 0.00                    | 0.00                   | 0.00                  |
| 9,225.0               | 0.56            | 179.59      | 9,113.2               | 1,108.0      | -141.0       | -1,106.9                | 12.00                   | 12.00                  | 0.00                  |
| 9,250.0               | 3.56            | 179.59      | 9,138.1               | 1,107.1      | -141.0       | -1,106.1                | 12.00                   | 12.00                  | 0.00                  |
| 9,275.0               | 6.56            | 179.59      | 9,163.0               | 1,104.9      | -141.0       | -1,103.8                | 12.00                   | 12.00                  | 0.00                  |
| 9,300.0               | 9.56            | 179.59      | 9,187.8               | 1,101.4      | -141.0       | -1,100.3                | 12.00                   | 12.00                  | 0.00                  |
| 9,325.0               | 12.56           | 179.59      | 9,212.3               | 1,096.6      | -140.9       | -1,095.5                | 12.00                   | 12.00                  | 0.00                  |
| 9,350.0               | 15.56           | 179.59      | 9,236.6               | 1,090.5      | -140.9       | -1,089.5                | 12.00                   | 12.00                  | 0.00                  |
| 9,375.0               | 18.56           | 179.59      | 9,260.5               | 1,083.2      | -140.8       | -1,082.1                | 12.00                   | 12.00                  | 0.00                  |
| 9,400.0               | 21.56           | 179.59      | 9,283.9               | 1,074.6      | -140.8       | -1,073.6                | 12.00                   | 12.00                  | 0.00                  |
| 9,425.0               | 24.56           | 179.59      | 9,306.9               | 1,064.8      | -140.7       | -1,063.8                | 12.00                   | 12.00                  | 0.00                  |
| 9,450.0               | 27.56           | 179.59      | 9,329.4               | 1,053.8      | -140.6       | -1,052.8                | 12.00                   | 12.00                  | 0.00                  |
| 9,475.0               | 30.56           | 179.59      | 9,351.3               | 1,041.7      | -140.5       | -1,040.7                | 12.00                   | 12.00                  | 0.00                  |



## Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM                         | <b>Local Co-ordinate Reference:</b> | Well #208H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3531.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3531.0usft |
| <b>Site:</b>     | Frazier 27 State Com        | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #208H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 9,500.0               | 33.56           | 179.59      | 9,372.4               | 1,028.4      | -140.4       | -1,027.4                | 12.00                   | 12.00                  | 0.00                  |  |
| 9,525.0               | 36.56           | 179.59      | 9,392.9               | 1,014.1      | -140.3       | -1,013.0                | 12.00                   | 12.00                  | 0.00                  |  |
| 9,550.0               | 39.56           | 179.59      | 9,412.6               | 998.6        | -140.2       | -997.6                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,575.0               | 42.56           | 179.59      | 9,431.4               | 982.2        | -140.1       | -981.2                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,600.0               | 45.56           | 179.59      | 9,449.4               | 964.8        | -140.0       | -963.8                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,625.0               | 48.56           | 179.59      | 9,466.4               | 946.5        | -139.8       | -945.5                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,650.0               | 51.56           | 179.59      | 9,482.5               | 927.4        | -139.7       | -926.4                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,675.0               | 54.56           | 179.59      | 9,497.5               | 907.4        | -139.6       | -906.4                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,700.0               | 57.56           | 179.59      | 9,511.5               | 886.7        | -139.4       | -885.7                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,725.0               | 60.56           | 179.59      | 9,524.3               | 865.2        | -139.2       | -864.2                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,750.0               | 63.56           | 179.59      | 9,536.0               | 843.1        | -139.1       | -842.1                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,775.0               | 66.56           | 179.59      | 9,546.6               | 820.5        | -138.9       | -819.5                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,800.0               | 69.56           | 179.59      | 9,555.9               | 797.3        | -138.8       | -796.3                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,825.0               | 72.56           | 179.59      | 9,564.0               | 773.7        | -138.6       | -772.6                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,850.0               | 75.56           | 179.59      | 9,570.9               | 749.6        | -138.4       | -748.6                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,875.0               | 78.56           | 179.59      | 9,576.5               | 725.3        | -138.2       | -724.3                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,900.0               | 81.56           | 179.59      | 9,580.8               | 700.6        | -138.1       | -699.6                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,925.0               | 84.56           | 179.59      | 9,583.8               | 675.8        | -137.9       | -674.8                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,950.0               | 87.56           | 179.59      | 9,585.5               | 650.9        | -137.7       | -649.9                  | 12.00                   | 12.00                  | 0.00                  |  |
| 9,970.3               | 90.00           | 179.59      | 9,586.0               | 630.5        | -137.6       | -629.6                  | 12.00                   | 12.00                  | 0.00                  |  |
| 10,000.0              | 90.00           | 179.59      | 9,586.0               | 600.9        | -137.3       | -599.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,100.0              | 90.00           | 179.59      | 9,586.0               | 500.9        | -136.6       | -499.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.0              | 90.00           | 179.59      | 9,586.0               | 400.9        | -135.9       | -399.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.0              | 90.00           | 179.59      | 9,586.0               | 300.9        | -135.2       | -299.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.0              | 90.00           | 179.59      | 9,586.0               | 200.9        | -134.5       | -199.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.0              | 90.00           | 179.59      | 9,586.0               | 100.9        | -133.7       | -100.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.0              | 90.00           | 179.59      | 9,586.0               | 0.9          | -133.0       | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.0              | 90.00           | 179.59      | 9,586.0               | -99.1        | -132.3       | 100.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 10,800.0              | 90.00           | 179.59      | 9,586.0               | -199.1       | -131.6       | 200.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 10,900.0              | 90.00           | 179.59      | 9,586.0               | -299.1       | -130.9       | 300.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,000.0              | 90.00           | 179.59      | 9,586.0               | -399.1       | -130.1       | 400.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,100.0              | 90.00           | 179.59      | 9,586.0               | -499.1       | -129.4       | 500.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,200.0              | 90.00           | 179.59      | 9,586.0               | -599.1       | -128.7       | 600.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,300.0              | 90.00           | 179.59      | 9,586.0               | -699.1       | -128.0       | 700.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,400.0              | 90.00           | 179.59      | 9,586.0               | -799.1       | -127.3       | 800.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,500.0              | 90.00           | 179.59      | 9,586.0               | -899.1       | -126.5       | 899.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,600.0              | 90.00           | 179.59      | 9,586.0               | -999.1       | -125.8       | 999.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.0              | 90.00           | 179.59      | 9,586.0               | -1,099.1     | -125.1       | 1,099.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,800.0              | 90.00           | 179.59      | 9,586.0               | -1,199.1     | -124.4       | 1,199.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,900.0              | 90.00           | 179.59      | 9,586.0               | -1,299.1     | -123.6       | 1,299.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,000.0              | 90.00           | 179.59      | 9,586.0               | -1,399.1     | -122.9       | 1,399.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,100.0              | 90.00           | 179.59      | 9,586.0               | -1,499.1     | -122.2       | 1,499.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,200.0              | 90.00           | 179.59      | 9,586.0               | -1,599.1     | -121.5       | 1,599.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,300.0              | 90.00           | 179.59      | 9,586.0               | -1,699.0     | -120.8       | 1,699.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,400.0              | 90.00           | 179.59      | 9,586.0               | -1,799.0     | -120.0       | 1,799.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,500.0              | 90.00           | 179.59      | 9,586.0               | -1,899.0     | -119.3       | 1,899.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,600.0              | 90.00           | 179.59      | 9,586.0               | -1,999.0     | -118.6       | 1,999.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,700.0              | 90.00           | 179.59      | 9,586.0               | -2,099.0     | -117.9       | 2,099.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,800.0              | 90.00           | 179.59      | 9,586.0               | -2,199.0     | -117.2       | 2,199.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,900.0              | 90.00           | 179.59      | 9,586.0               | -2,299.0     | -116.4       | 2,299.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,000.0              | 90.00           | 179.59      | 9,586.0               | -2,399.0     | -115.7       | 2,399.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,100.0              | 90.00           | 179.59      | 9,586.0               | -2,499.0     | -115.0       | 2,499.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,200.0              | 90.00           | 179.59      | 9,586.0               | -2,599.0     | -114.3       | 2,599.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,300.0              | 90.00           | 179.59      | 9,586.0               | -2,699.0     | -113.6       | 2,699.8                 | 0.00                    | 0.00                   | 0.00                  |  |



## Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM                         | <b>Local Co-ordinate Reference:</b> | Well #208H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3531.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3531.0usft |
| <b>Site:</b>     | Frazier 27 State Com        | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #208H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 13,400.0              | 90.00           | 179.59      | 9,586.0               | -2,799.0     | -112.8       | 2,799.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 179.59      | 9,586.0               | -2,899.0     | -112.1       | 2,899.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 179.59      | 9,586.0               | -2,999.0     | -111.4       | 2,999.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 179.59      | 9,586.0               | -3,099.0     | -110.7       | 3,099.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 179.59      | 9,586.0               | -3,199.0     | -110.0       | 3,199.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 179.59      | 9,586.0               | -3,299.0     | -109.2       | 3,299.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 179.59      | 9,586.0               | -3,399.0     | -108.5       | 3,399.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 179.59      | 9,586.0               | -3,499.0     | -107.8       | 3,499.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 179.59      | 9,586.0               | -3,599.0     | -107.1       | 3,599.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 179.59      | 9,586.0               | -3,699.0     | -106.3       | 3,699.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 179.59      | 9,586.0               | -3,799.0     | -105.6       | 3,799.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 179.59      | 9,586.0               | -3,899.0     | -104.9       | 3,899.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 179.59      | 9,586.0               | -3,999.0     | -104.2       | 3,999.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 179.59      | 9,586.0               | -4,099.0     | -103.5       | 4,099.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 179.59      | 9,586.0               | -4,199.0     | -102.7       | 4,199.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 179.59      | 9,586.0               | -4,299.0     | -102.0       | 4,299.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 179.59      | 9,586.0               | -4,399.0     | -101.3       | 4,399.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 179.59      | 9,586.0               | -4,499.0     | -100.6       | 4,499.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 179.59      | 9,586.0               | -4,599.0     | -99.9        | 4,599.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 179.59      | 9,586.0               | -4,699.0     | -99.1        | 4,699.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 179.59      | 9,586.0               | -4,799.0     | -98.4        | 4,799.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 179.59      | 9,586.0               | -4,899.0     | -97.7        | 4,899.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 179.59      | 9,586.0               | -4,999.0     | -97.0        | 4,999.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 179.59      | 9,586.0               | -5,099.0     | -96.3        | 5,099.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 179.59      | 9,586.0               | -5,199.0     | -95.5        | 5,199.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 179.59      | 9,586.0               | -5,299.0     | -94.8        | 5,299.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 179.59      | 9,586.0               | -5,399.0     | -94.1        | 5,399.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 179.59      | 9,586.0               | -5,499.0     | -93.4        | 5,499.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 179.59      | 9,586.0               | -5,598.9     | -92.7        | 5,599.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 179.59      | 9,586.0               | -5,698.9     | -91.9        | 5,699.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 179.59      | 9,586.0               | -5,798.9     | -91.2        | 5,799.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 179.59      | 9,586.0               | -5,898.9     | -90.5        | 5,899.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 179.59      | 9,586.0               | -5,998.9     | -89.8        | 5,999.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 179.59      | 9,586.0               | -6,098.9     | -89.0        | 6,099.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 179.59      | 9,586.0               | -6,198.9     | -88.3        | 6,199.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 179.59      | 9,586.0               | -6,298.9     | -87.6        | 6,299.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 179.59      | 9,586.0               | -6,398.9     | -86.9        | 6,399.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 179.59      | 9,586.0               | -6,498.9     | -86.2        | 6,499.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 179.59      | 9,586.0               | -6,598.9     | -85.4        | 6,599.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 179.59      | 9,586.0               | -6,698.9     | -84.7        | 6,699.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.00           | 179.59      | 9,586.0               | -6,798.9     | -84.0        | 6,799.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,500.0              | 90.00           | 179.59      | 9,586.0               | -6,898.9     | -83.3        | 6,899.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,600.0              | 90.00           | 179.59      | 9,586.0               | -6,998.9     | -82.6        | 6,999.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,700.0              | 90.00           | 179.59      | 9,586.0               | -7,098.9     | -81.8        | 7,099.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,800.0              | 90.00           | 179.59      | 9,586.0               | -7,198.9     | -81.1        | 7,199.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,900.0              | 90.00           | 179.59      | 9,586.0               | -7,298.9     | -80.4        | 7,299.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,000.0              | 90.00           | 179.59      | 9,586.0               | -7,398.9     | -79.7        | 7,399.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,100.0              | 90.00           | 179.59      | 9,586.0               | -7,498.9     | -79.0        | 7,499.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,200.0              | 90.00           | 179.59      | 9,586.0               | -7,598.9     | -78.2        | 7,599.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,300.0              | 90.00           | 179.59      | 9,586.0               | -7,698.9     | -77.5        | 7,699.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,400.0              | 90.00           | 179.59      | 9,586.0               | -7,798.9     | -76.8        | 7,799.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,500.0              | 90.00           | 179.59      | 9,586.0               | -7,898.9     | -76.1        | 7,899.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,600.0              | 90.00           | 179.59      | 9,586.0               | -7,998.9     | -75.4        | 7,999.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,700.0              | 90.00           | 179.59      | 9,586.0               | -8,098.9     | -74.6        | 8,099.2                 | 0.00                    | 0.00                   | 0.00                  |



## Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM                         | <b>Local Co-ordinate Reference:</b> | Well #208H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3531.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3531.0usft |
| <b>Site:</b>     | Frazier 27 State Com        | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #208H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 18,800.0              | 90.00           | 179.59      | 9,586.0               | -8,198.9     | -73.9        | 8,199.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,900.0              | 90.00           | 179.59      | 9,586.0               | -8,298.9     | -73.2        | 8,299.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,000.0              | 90.00           | 179.59      | 9,586.0               | -8,398.9     | -72.5        | 8,399.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,100.0              | 90.00           | 179.59      | 9,586.0               | -8,498.9     | -71.7        | 8,499.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,200.0              | 90.00           | 179.59      | 9,586.0               | -8,598.9     | -71.0        | 8,599.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,300.0              | 90.00           | 179.59      | 9,586.0               | -8,698.9     | -70.3        | 8,699.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,400.0              | 90.00           | 179.59      | 9,586.0               | -8,798.9     | -69.6        | 8,799.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,500.0              | 90.00           | 179.59      | 9,586.0               | -8,898.9     | -68.9        | 8,899.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,600.0              | 90.00           | 179.59      | 9,586.0               | -8,998.9     | -68.1        | 8,999.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,700.0              | 90.00           | 179.59      | 9,586.0               | -9,098.9     | -67.4        | 9,099.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,800.0              | 90.00           | 179.59      | 9,586.0               | -9,198.9     | -66.7        | 9,199.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,897.1              | 90.00           | 179.59      | 9,586.0               | -9,296.0     | -66.0        | 9,296.2                 | 0.00                    | 0.00                   | 0.00                  |

| Design Targets                                                                                                                  |               |              |            |              |              |                 |                |                  |                   |
|---------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| Target Name<br>- hit/miss target<br>- Shape                                                                                     | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
| KOP(Frazier 27 SC #208)<br>- plan hits target center<br>- Point                                                                 | 0.00          | 0.01         | 9,108.5    | 1,108.0      | -141.0       | 435,790.00      | 779,509.00     | 32° 11' 44.592 N | 103° 33' 48.163 W |
| PBHL(Frazier 27 SC #208)<br>- plan hits target center<br>- Point                                                                | 0.00          | 0.00         | 9,586.0    | -9,296.0     | -66.0        | 425,386.00      | 779,584.00     | 32° 10' 1.637 N  | 103° 33' 48.157 W |
| FTP(Frazier 27 SC #208)<br>- plan misses target center by 163.5usft at 9624.9usft MD (9466.3 TVD, 946.6 N, -139.8 E)<br>- Point | 0.00          | 0.01         | 9,586.0    | 1,058.0      | -141.0       | 435,740.00      | 779,509.00     | 32° 11' 44.097 N | 103° 33' 48.167 W |

Intent ☐ As Drilled ☐

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

## Kick Off Point (KOP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## First Take Point (FTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## Last Take Point (LTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

KZ 06/29/2018