

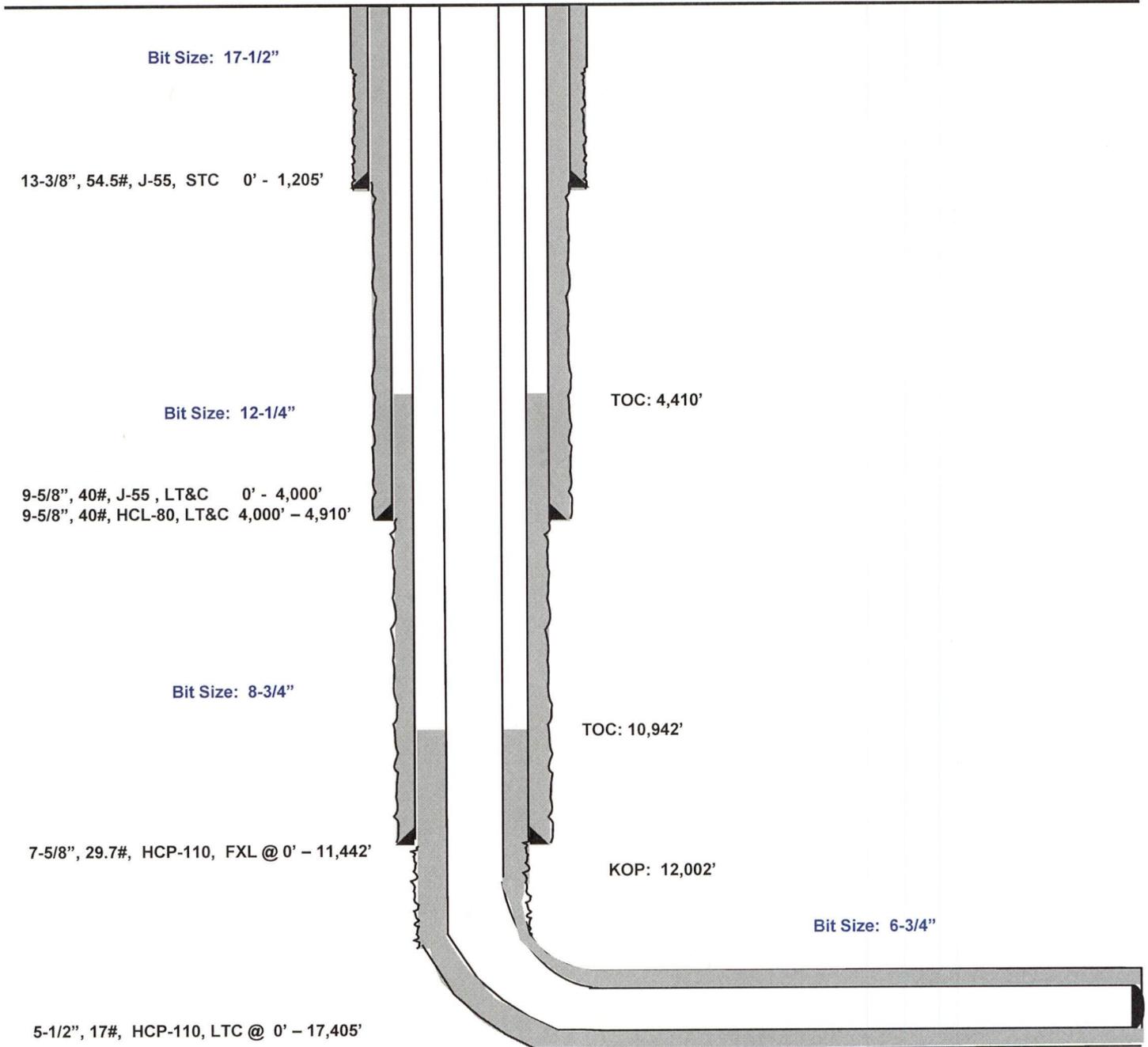
Heartthrob 17 State #708H
Lea County, New Mexico

OCD - HOBBS
08/24/2018
RECEIVED

483' FSL
676' FEL
Section 17
T-24-S, R-33-E

Proposed Wellbore
30-025-45143
API: 30-025-*****

KB: 3,593'
GL: 3,568'



Lateral: 17,405' MD, 12,462' TVD
BH Location: 100' FNL & 330' FEL
Section 17
T-24-S, R-33-E

Permit Information:

Well Name: Heartthrob 17 State No. 708H

Location:

SL: 483' FSL & 676' FEL, Section 17, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 330' FEL, Section 17, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

| Hole Size | Interval | Csg OD | Weight | Grade | Conn | DF _{min} Collapse | DF _{min} Burst | DF _{min} Tension |
|-----------|-----------------|---------|--------|---------|------|----------------------------|-------------------------|---------------------------|
| 17.5" | 0 - 1,205' | 13.375" | 54.5# | J55 | STC | 1.125 | 1.25 | 1.60 |
| 12.25" | 0-4,000' | 9.625" | 40# | J55 | LTC | 1.125 | 1.25 | 1.60 |
| 12.25" | 4,000' - 4,910' | 9.625" | 40# | HCL-80 | LTC | 1.125 | 1.25 | 1.60 |
| 8.75" | 0 - 11,442' | 7.625" | 29.7# | HCP-110 | FXL | 1.125 | 1.25 | 1.60 |
| 6.75" | 0'-17,405' | 5.5" | 17# | HCP-110 | LTC | 1.125 | 1.25 | 1.60 |

Cement Program:

| Depth | No. Sacks | Wt. lb/gal | Yld Ft ³ /ft | Slurry Description |
|---------|-----------|------------|-------------------------|--|
| 1205' | 697 | 13.5 | 1.74 | Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (TOC @ Surface) |
| | 333 | 14.8 | 1.35 | Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk) |
| 4,910' | 692 | 12.7 | 2.22 | Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface) |
| | 303 | 14.8 | 1.32 | Tail: Class C + 0.13% C-20 |
| 11,442' | 375 | 10.8 | 3.67 | Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,410') |
| | 400 | 14.8 | 2.38 | Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800 |
| 17,405' | 800 | 14.8 | 1.31 | Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,942') |

Mud Program:

| Depth | Type | Weight (ppg) | Viscosity | Water Loss |
|------------------------------|-------------|--------------|-----------|------------|
| 0 - 1205' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,205' - 4,910' | Brine | 10.0-10.2 | 28-34 | N/c |
| 4,910' - 11,442' | Oil Base | 8.7-9.4 | 58-68 | N/c - 6 |
| 11,442' - 17,405' Lateral | Oil Base | 10.0-11.5 | 58-68 | 3 - 6 |

EOG RESOURCES, INC.
HEARTTHROB 17 STATE #708H

OCD - HOBBS
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Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator

- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/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

- H₂S detection and monitoring equipment:

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

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

- Visual warning systems.

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

EOG RESOURCES, INC.
HEARTTHROB 17 STATE #708H

- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.

- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

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

EOG RESOURCES, INC.
HEARTTHROB 17 STATE #708H

Emergency Assistance Telephone List

| PUBLIC SAFETY: | 911 or |
|--|--|
| Lea County Sheriff's Department Rod Coffman | (575) 396-3611 |
| 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 | |
| Todd Hamilton | Office (432) 848-9029 Cell (210) 413-9569 |
| | |
| 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 |



Lea County, NM (NAD 83 NME)

Heartthrob 17 state #708H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

WELL DETAILS: #708H

KB = 25 @ 3593.0usft 3568.0
 Northing 441562.00 Easting 771862.00 Latitude 32° 12' 42.240 N Longitude 103° 35' 16.686 W

Azimuths to Grid North
 True North: -0.40°
 Magnetic North: 6.43°
 Magnetic Field Strength: 47806.4snT
 Dip Angle: 60.03°
 Date: 8/23/2018
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.43°
 To convert a Magnetic Direction to a True Direction, Add 6.83° East
 To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

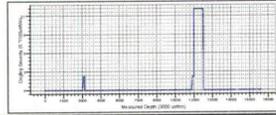
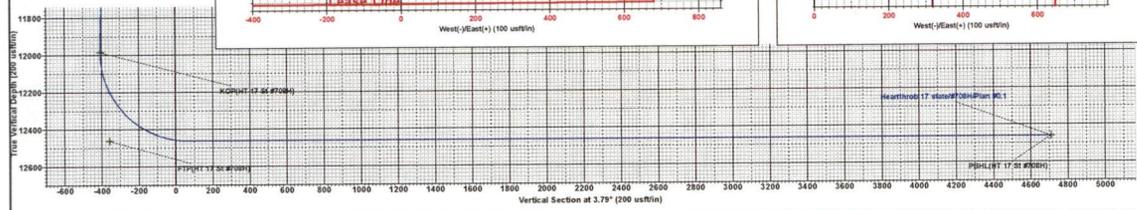
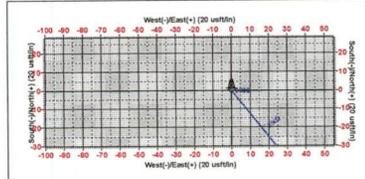
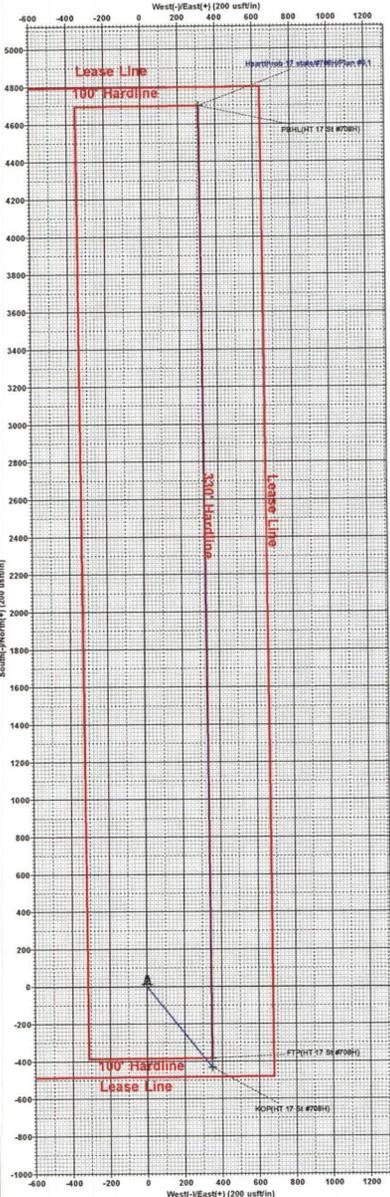
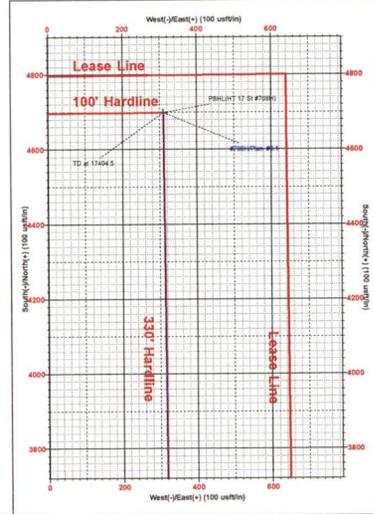
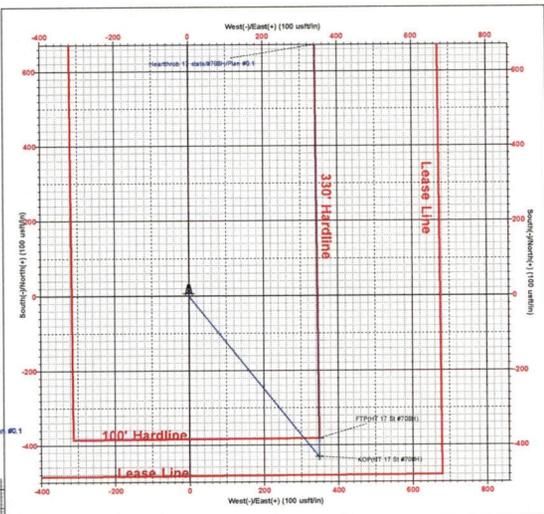
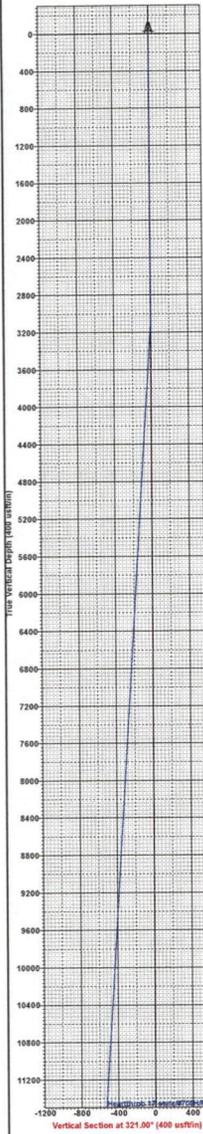
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|-----|---------|-------|--------|---------|--------|-------|-------|--------|--------|----------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 3000.0 | 0.00 | 0.00 | 3000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 3180.2 | 3.60 | 141.00 | 3180.1 | -4.4 | 3.6 | 2.00 | 141.00 | -4.2 | |
| 4 | 11821.6 | 3.60 | 141.00 | 11804.4 | -426.6 | 345.4 | 0.00 | 0.00 | -402.9 | KOP(HT 17 St #708H) |
| 5 | 12001.8 | 0.00 | 0.00 | 11984.5 | -431.0 | 349.0 | 2.00 | 180.00 | -407.0 | |
| 6 | 12751.8 | 90.00 | 359.58 | 12462.0 | 46.4 | 345.5 | 12.00 | 359.58 | 69.2 | PBHL(HT 17 St #708H) |
| 7 | 17404.5 | 90.00 | 359.58 | 12462.0 | 4699.0 | 311.0 | 0.00 | 0.00 | 4709.3 | |

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name | TVD | +N/-S | +E/-W | Northing | Easting |
|----------------------|---------|--------|-------|-----------|-----------|
| KOP(HT 17 St #708H) | 11984.5 | -431.0 | 349.0 | 441131.00 | 772211.00 |
| FTP(HT 17 St #708H) | 12462.0 | -381.0 | 349.0 | 441181.00 | 772211.00 |
| PBHL(HT 17 St #708H) | 12462.0 | 4699.0 | 311.0 | 446251.00 | 772173.00 |



East: 772211.00
 West: 772173.00
 North: 441131.00
 South: 446251.00
 Date: 8/23/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#708H

OH

Plan: Plan #0.1

Standard Planning Report

23 August, 2018



Planning Report

| | | | |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14 | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 25 @ 3593.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 25 @ 3593.0usft |
| Site: | Heartthrob 17 state | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

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

| | | | |
|-----------------------|----------|-------------------|---------------------|
| Site | | | Heartthrob 17 state |
| Site Position: | | Northing: | 441,886.00 usft |
| From: | Map | Easting: | 767,698.00 usft |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " |
| | | Latitude: | 32° 12' 45.730 N |
| | | Longitude: | 103° 36' 5.126 W |
| | | Grid Convergence: | 0.39 ° |

| | | | |
|----------------------|-------|--------------|---------------------|
| Well | | | #708H |
| Well Position | +N/-S | -324.0 usft | Northing: |
| | +E/-W | 4,164.0 usft | Easting: |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: |
| | | | Latitude: |
| | | | Longitude: |
| | | | Ground Level: |

| Wellbore | | | OH | | |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 8/23/2018 | 6.83 | 60.03 | 47,806.37571692 |

| Design | | | Plan #0.1 | | |
|-------------------|-------------------------|--------------|--------------|---------------|-----|
| Audit Notes: | | | | | |
| Version: | | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 3.79 | |

| Plan Survey Tool Program | | Date | 8/23/2018 | |
|--------------------------|-----------------|-------------------|----------------|---------------------|
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.0 | 17,404.5 | Plan #0.1 (OH) | MWD |
| | | | | OWSG MWD - Standard |

| Plan Sections | | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 3,180.2 | 3.60 | 141.00 | 3,180.1 | -4.4 | 3.6 | 2.00 | 2.00 | 0.00 | 141.00 | | |
| 11,821.6 | 3.60 | 141.00 | 11,804.4 | -426.6 | 345.4 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 12,001.8 | 0.00 | 0.01 | 11,984.5 | -431.0 | 349.0 | 2.00 | -2.00 | 0.00 | 180.00 | KOP(HT 17 St #708H) | |
| 12,751.8 | 90.00 | 359.58 | 12,462.0 | 46.4 | 345.5 | 12.00 | 12.00 | -0.06 | 359.58 | | |
| 17,404.5 | 90.00 | 359.58 | 12,462.0 | 4,699.0 | 311.0 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL(HT 17 St #708H) | |



Planning Report

| | | | |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14 | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 25 @ 3593.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 25 @ 3593.0usft |
| Site: | Hearthrob 17 state | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | 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 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 2.00 | 141.00 | 3,100.0 | -1.4 | 1.1 | -1.3 | 2.00 | 2.00 | 0.00 |
| 3,180.2 | 3.60 | 141.00 | 3,180.1 | -4.4 | 3.6 | -4.2 | 2.00 | 2.00 | 0.00 |
| 3,200.0 | 3.60 | 141.00 | 3,199.8 | -5.4 | 4.3 | -5.1 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 3.60 | 141.00 | 3,299.6 | -10.3 | 8.3 | -9.7 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 3.60 | 141.00 | 3,399.4 | -15.1 | 12.3 | -14.3 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 3.60 | 141.00 | 3,499.2 | -20.0 | 16.2 | -18.9 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 3.60 | 141.00 | 3,599.1 | -24.9 | 20.2 | -23.5 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 3.60 | 141.00 | 3,698.9 | -29.8 | 24.1 | -28.1 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 3.60 | 141.00 | 3,798.7 | -34.7 | 28.1 | -32.8 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 3.60 | 141.00 | 3,898.5 | -39.6 | 32.0 | -37.4 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 3.60 | 141.00 | 3,998.3 | -44.5 | 36.0 | -42.0 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 3.60 | 141.00 | 4,098.1 | -49.3 | 40.0 | -46.6 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 3.60 | 141.00 | 4,197.9 | -54.2 | 43.9 | -51.2 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 3.60 | 141.00 | 4,297.7 | -59.1 | 47.9 | -55.8 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 3.60 | 141.00 | 4,397.5 | -64.0 | 51.8 | -60.4 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 3.60 | 141.00 | 4,497.3 | -68.9 | 55.8 | -65.1 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 3.60 | 141.00 | 4,597.1 | -73.8 | 59.7 | -69.7 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 3.60 | 141.00 | 4,696.9 | -78.7 | 63.7 | -74.3 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 3.60 | 141.00 | 4,796.7 | -83.5 | 67.6 | -78.9 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 3.60 | 141.00 | 4,896.5 | -88.4 | 71.6 | -83.5 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 3.60 | 141.00 | 4,996.3 | -93.3 | 75.6 | -88.1 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 3.60 | 141.00 | 5,096.1 | -98.2 | 79.5 | -92.7 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 3.60 | 141.00 | 5,195.9 | -103.1 | 83.5 | -97.3 | 0.00 | 0.00 | 0.00 |



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|----------------------|
| Database: | EDM 5000.14 | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 25 @ 3593.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 25 @ 3593.0usft |
| Site: | Heartthrob 17 state | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | 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 | 3.60 | 141.00 | 5,295.7 | -108.0 | 87.4 | -102.0 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 3.60 | 141.00 | 5,395.5 | -112.9 | 91.4 | -106.6 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 3.60 | 141.00 | 5,495.3 | -117.7 | 95.3 | -111.2 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 3.60 | 141.00 | 5,595.1 | -122.6 | 99.3 | -115.8 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 3.60 | 141.00 | 5,694.9 | -127.5 | 103.3 | -120.4 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 3.60 | 141.00 | 5,794.7 | -132.4 | 107.2 | -125.0 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 3.60 | 141.00 | 5,894.5 | -137.3 | 111.2 | -129.6 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 3.60 | 141.00 | 5,994.3 | -142.2 | 115.1 | -134.3 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 3.60 | 141.00 | 6,094.1 | -147.1 | 119.1 | -138.9 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 3.60 | 141.00 | 6,193.9 | -151.9 | 123.0 | -143.5 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 3.60 | 141.00 | 6,293.7 | -156.8 | 127.0 | -148.1 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 3.60 | 141.00 | 6,393.5 | -161.7 | 130.9 | -152.7 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 3.60 | 141.00 | 6,493.3 | -166.6 | 134.9 | -157.3 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 3.60 | 141.00 | 6,593.1 | -171.5 | 138.9 | -161.9 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 3.60 | 141.00 | 6,692.9 | -176.4 | 142.8 | -166.6 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 3.60 | 141.00 | 6,792.7 | -181.3 | 146.8 | -171.2 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 3.60 | 141.00 | 6,892.5 | -186.1 | 150.7 | -175.8 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 3.60 | 141.00 | 6,992.3 | -191.0 | 154.7 | -180.4 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 3.60 | 141.00 | 7,092.1 | -195.9 | 158.6 | -185.0 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 3.60 | 141.00 | 7,191.9 | -200.8 | 162.6 | -189.6 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 3.60 | 141.00 | 7,291.7 | -205.7 | 166.6 | -194.2 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 3.60 | 141.00 | 7,391.5 | -210.6 | 170.5 | -198.8 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 3.60 | 141.00 | 7,491.3 | -215.5 | 174.5 | -203.5 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 3.60 | 141.00 | 7,591.1 | -220.3 | 178.4 | -208.1 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 3.60 | 141.00 | 7,690.9 | -225.2 | 182.4 | -212.7 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 3.60 | 141.00 | 7,790.7 | -230.1 | 186.3 | -217.3 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 3.60 | 141.00 | 7,890.5 | -235.0 | 190.3 | -221.9 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 3.60 | 141.00 | 7,990.3 | -239.9 | 194.2 | -226.5 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 3.60 | 141.00 | 8,090.1 | -244.8 | 198.2 | -231.1 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 3.60 | 141.00 | 8,190.0 | -249.7 | 202.2 | -235.8 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 3.60 | 141.00 | 8,289.8 | -254.5 | 206.1 | -240.4 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 3.60 | 141.00 | 8,389.6 | -259.4 | 210.1 | -245.0 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 3.60 | 141.00 | 8,489.4 | -264.3 | 214.0 | -249.6 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 3.60 | 141.00 | 8,589.2 | -269.2 | 218.0 | -254.2 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 3.60 | 141.00 | 8,689.0 | -274.1 | 221.9 | -258.8 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 3.60 | 141.00 | 8,788.8 | -279.0 | 225.9 | -263.4 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 3.60 | 141.00 | 8,888.6 | -283.9 | 229.9 | -268.1 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 3.60 | 141.00 | 8,988.4 | -288.7 | 233.8 | -272.7 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 3.60 | 141.00 | 9,088.2 | -293.6 | 237.8 | -277.3 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 3.60 | 141.00 | 9,188.0 | -298.5 | 241.7 | -281.9 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 3.60 | 141.00 | 9,287.8 | -303.4 | 245.7 | -286.5 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 3.60 | 141.00 | 9,387.6 | -308.3 | 249.6 | -291.1 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 3.60 | 141.00 | 9,487.4 | -313.2 | 253.6 | -295.7 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 3.60 | 141.00 | 9,587.2 | -318.1 | 257.5 | -300.4 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 3.60 | 141.00 | 9,687.0 | -322.9 | 261.5 | -305.0 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 3.60 | 141.00 | 9,786.8 | -327.8 | 265.5 | -309.6 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 3.60 | 141.00 | 9,886.6 | -332.7 | 269.4 | -314.2 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 3.60 | 141.00 | 9,986.4 | -337.6 | 273.4 | -318.8 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 3.60 | 141.00 | 10,086.2 | -342.5 | 277.3 | -323.4 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 3.60 | 141.00 | 10,186.0 | -347.4 | 281.3 | -328.0 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 3.60 | 141.00 | 10,285.8 | -352.3 | 285.2 | -332.6 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 3.60 | 141.00 | 10,385.6 | -357.1 | 289.2 | -337.3 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 3.60 | 141.00 | 10,485.4 | -362.0 | 293.1 | -341.9 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 3.60 | 141.00 | 10,585.2 | -366.9 | 297.1 | -346.5 | 0.00 | 0.00 | 0.00 |



Planning Report

| | | | |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14 | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 25 @ 3593.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 25 @ 3593.0usft |
| Site: | Heartthrob 17 state | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | 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) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,700.0 | 3.60 | 141.00 | 10,685.0 | -371.8 | 301.1 | -351.1 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 3.60 | 141.00 | 10,784.8 | -376.7 | 305.0 | -355.7 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 3.60 | 141.00 | 10,884.6 | -381.6 | 309.0 | -360.3 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 3.60 | 141.00 | 10,984.4 | -386.5 | 312.9 | -364.9 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 3.60 | 141.00 | 11,084.2 | -391.3 | 316.9 | -369.6 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 3.60 | 141.00 | 11,184.0 | -396.2 | 320.8 | -374.2 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 3.60 | 141.00 | 11,283.8 | -401.1 | 324.8 | -378.8 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 3.60 | 141.00 | 11,383.6 | -406.0 | 328.8 | -383.4 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 3.60 | 141.00 | 11,483.4 | -410.9 | 332.7 | -388.0 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 3.60 | 141.00 | 11,583.2 | -415.8 | 336.7 | -392.6 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 3.60 | 141.00 | 11,683.0 | -420.7 | 340.6 | -397.2 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 3.60 | 141.00 | 11,782.8 | -425.5 | 344.6 | -401.9 | 0.00 | 0.00 | 0.00 |
| 11,821.6 | 3.60 | 141.00 | 11,804.4 | -426.6 | 345.4 | -402.9 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 2.04 | 141.00 | 11,882.7 | -429.6 | 347.9 | -405.7 | 2.00 | -2.00 | 0.00 |
| 12,001.8 | 0.00 | 0.01 | 11,984.5 | -431.0 | 349.0 | -407.0 | 2.00 | -2.00 | 0.00 |
| KOP(HT 17 St #708H) | | | | | | | | | |
| 12,025.0 | 2.78 | 359.58 | 12,007.7 | -430.4 | 349.0 | -406.5 | 12.00 | 12.00 | 0.00 |
| 12,050.0 | 5.78 | 359.58 | 12,032.6 | -428.6 | 349.0 | -404.6 | 12.00 | 12.00 | 0.00 |
| 12,075.0 | 8.78 | 359.58 | 12,057.4 | -425.4 | 349.0 | -401.4 | 12.00 | 12.00 | 0.00 |
| 12,100.0 | 11.78 | 359.58 | 12,082.0 | -420.9 | 348.9 | -397.0 | 12.00 | 12.00 | 0.00 |
| 12,125.0 | 14.78 | 359.58 | 12,106.3 | -415.2 | 348.9 | -391.3 | 12.00 | 12.00 | 0.00 |
| 12,150.0 | 17.78 | 359.58 | 12,130.3 | -408.2 | 348.8 | -384.3 | 12.00 | 12.00 | 0.00 |
| 12,175.0 | 20.78 | 359.58 | 12,153.9 | -399.9 | 348.8 | -376.0 | 12.00 | 12.00 | 0.00 |
| 12,200.0 | 23.78 | 359.58 | 12,177.0 | -390.5 | 348.7 | -366.6 | 12.00 | 12.00 | 0.00 |
| 12,225.0 | 26.78 | 359.58 | 12,199.6 | -379.8 | 348.6 | -355.9 | 12.00 | 12.00 | 0.00 |
| 12,250.0 | 29.78 | 359.58 | 12,221.6 | -367.9 | 348.5 | -344.1 | 12.00 | 12.00 | 0.00 |
| 12,275.0 | 32.78 | 359.58 | 12,243.0 | -355.0 | 348.4 | -331.2 | 12.00 | 12.00 | 0.00 |
| 12,300.0 | 35.78 | 359.58 | 12,263.7 | -340.9 | 348.3 | -317.1 | 12.00 | 12.00 | 0.00 |
| 12,325.0 | 38.78 | 359.58 | 12,283.6 | -325.7 | 348.2 | -302.0 | 12.00 | 12.00 | 0.00 |
| 12,350.0 | 41.78 | 359.58 | 12,302.6 | -309.6 | 348.1 | -285.9 | 12.00 | 12.00 | 0.00 |
| 12,375.0 | 44.78 | 359.58 | 12,320.8 | -292.4 | 348.0 | -268.8 | 12.00 | 12.00 | 0.00 |
| 12,400.0 | 47.78 | 359.58 | 12,338.1 | -274.4 | 347.8 | -250.8 | 11.99 | 11.99 | 0.00 |
| FTP(HT 17 St #708H) | | | | | | | | | |
| 12,425.0 | 50.78 | 359.58 | 12,354.4 | -255.4 | 347.7 | -231.9 | 12.01 | 12.01 | 0.00 |
| 12,450.0 | 53.78 | 359.58 | 12,369.7 | -235.7 | 347.6 | -212.2 | 12.00 | 12.00 | 0.00 |
| 12,475.0 | 56.78 | 359.58 | 12,383.9 | -215.1 | 347.4 | -191.7 | 12.00 | 12.00 | 0.00 |
| 12,500.0 | 59.78 | 359.58 | 12,397.1 | -193.9 | 347.2 | -170.5 | 12.00 | 12.00 | 0.00 |
| 12,525.0 | 62.78 | 359.58 | 12,409.1 | -171.9 | 347.1 | -148.6 | 12.00 | 12.00 | 0.00 |
| 12,550.0 | 65.78 | 359.58 | 12,419.9 | -149.4 | 346.9 | -126.2 | 12.00 | 12.00 | 0.00 |
| 12,575.0 | 68.78 | 359.58 | 12,429.6 | -126.4 | 346.7 | -103.2 | 12.00 | 12.00 | 0.00 |
| 12,600.0 | 71.78 | 359.58 | 12,438.0 | -102.8 | 346.6 | -79.7 | 12.00 | 12.00 | 0.00 |
| 12,625.0 | 74.78 | 359.58 | 12,445.2 | -78.9 | 346.4 | -55.8 | 12.00 | 12.00 | 0.00 |
| 12,650.0 | 77.78 | 359.58 | 12,451.1 | -54.6 | 346.2 | -31.6 | 12.00 | 12.00 | 0.00 |
| 12,675.0 | 80.78 | 359.58 | 12,455.8 | -30.0 | 346.0 | -7.1 | 12.00 | 12.00 | 0.00 |
| 12,700.0 | 83.78 | 359.58 | 12,459.2 | -5.3 | 345.8 | 17.6 | 12.00 | 12.00 | 0.00 |
| 12,725.0 | 86.78 | 359.58 | 12,461.2 | 19.6 | 345.7 | 42.4 | 12.00 | 12.00 | 0.00 |
| 12,751.8 | 90.00 | 359.58 | 12,462.0 | 46.4 | 345.5 | 69.2 | 12.00 | 12.00 | 0.00 |
| 12,800.0 | 90.00 | 359.58 | 12,462.0 | 94.6 | 345.1 | 117.2 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 359.58 | 12,462.0 | 194.6 | 344.4 | 216.9 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 359.58 | 12,462.0 | 294.6 | 343.6 | 316.7 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 359.58 | 12,462.0 | 394.6 | 342.9 | 416.4 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 359.58 | 12,462.0 | 494.6 | 342.1 | 516.1 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 359.58 | 12,462.0 | 594.6 | 341.4 | 615.9 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 359.58 | 12,462.0 | 694.6 | 340.7 | 715.6 | 0.00 | 0.00 | 0.00 |



Planning Report

| | | | |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14 | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 25 @ 3593.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 25 @ 3593.0usft |
| Site: | Hearthrob 17 state | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,500.0 | 90.00 | 359.58 | 12,462.0 | 794.6 | 339.9 | 815.3 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 359.58 | 12,462.0 | 894.6 | 339.2 | 915.0 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 359.58 | 12,462.0 | 994.6 | 338.4 | 1,014.8 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 359.58 | 12,462.0 | 1,094.6 | 337.7 | 1,114.5 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 359.58 | 12,462.0 | 1,194.6 | 337.0 | 1,214.2 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 359.58 | 12,462.0 | 1,294.6 | 336.2 | 1,314.0 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 359.58 | 12,462.0 | 1,394.6 | 335.5 | 1,413.7 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 359.58 | 12,462.0 | 1,494.6 | 334.7 | 1,513.4 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 359.58 | 12,462.0 | 1,594.6 | 334.0 | 1,613.2 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 359.58 | 12,462.0 | 1,694.6 | 333.3 | 1,712.9 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 359.58 | 12,462.0 | 1,794.6 | 332.5 | 1,812.6 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 359.58 | 12,462.0 | 1,894.6 | 331.8 | 1,912.3 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 359.58 | 12,462.0 | 1,994.6 | 331.0 | 2,012.1 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 359.58 | 12,462.0 | 2,094.6 | 330.3 | 2,111.8 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 359.58 | 12,462.0 | 2,194.6 | 329.6 | 2,211.5 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 359.58 | 12,462.0 | 2,294.6 | 328.8 | 2,311.3 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 359.58 | 12,462.0 | 2,394.6 | 328.1 | 2,411.0 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 359.58 | 12,462.0 | 2,494.6 | 327.3 | 2,510.7 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 359.58 | 12,462.0 | 2,594.6 | 326.6 | 2,610.5 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 359.58 | 12,462.0 | 2,694.5 | 325.8 | 2,710.2 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 359.58 | 12,462.0 | 2,794.5 | 325.1 | 2,809.9 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 359.58 | 12,462.0 | 2,894.5 | 324.4 | 2,909.6 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 359.58 | 12,462.0 | 2,994.5 | 323.6 | 3,009.4 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 359.58 | 12,462.0 | 3,094.5 | 322.9 | 3,109.1 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 359.58 | 12,462.0 | 3,194.5 | 322.1 | 3,208.8 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 359.58 | 12,462.0 | 3,294.5 | 321.4 | 3,308.6 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 359.58 | 12,462.0 | 3,394.5 | 320.7 | 3,408.3 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 359.58 | 12,462.0 | 3,494.5 | 319.9 | 3,508.0 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 359.58 | 12,462.0 | 3,594.5 | 319.2 | 3,607.8 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 359.58 | 12,462.0 | 3,694.5 | 318.4 | 3,707.5 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 359.58 | 12,462.0 | 3,794.5 | 317.7 | 3,807.2 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 359.58 | 12,462.0 | 3,894.5 | 317.0 | 3,906.9 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 359.58 | 12,462.0 | 3,994.5 | 316.2 | 4,006.7 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 359.58 | 12,462.0 | 4,094.5 | 315.5 | 4,106.4 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 359.58 | 12,462.0 | 4,194.5 | 314.7 | 4,206.1 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 359.58 | 12,462.0 | 4,294.5 | 314.0 | 4,305.9 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 359.58 | 12,462.0 | 4,394.5 | 313.3 | 4,405.6 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 359.58 | 12,462.0 | 4,494.5 | 312.5 | 4,505.3 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 359.58 | 12,462.0 | 4,594.5 | 311.8 | 4,605.1 | 0.00 | 0.00 | 0.00 |
| 17,404.5 | 90.00 | 359.58 | 12,462.0 | 4,699.0 | 311.0 | 4,709.3 | 0.00 | 0.00 | 0.00 |

PBHL(HT 17 St #708H)

| | | | |
|------------------|-----------------------------|-------------------------------------|----------------------|
| Database: | EDM 5000.14 | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 25 @ 3593.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 25 @ 3593.0usft |
| Site: | Heartthrob 17 state | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

| Design Targets | | | | | | | | | |
|---|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|-------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| KOP(HT 17 St #708H) - plan hits target center - Point | 0.00 | 0.01 | 11,984.5 | -431.0 | 349.0 | 441,131.00 | 772,211.00 | 32° 12' 37.952 N | 103° 35' 12.659 W |
| PBHL(HT 17 St #708H) - plan hits target center - Point | 0.00 | 0.01 | 12,462.0 | 4,699.0 | 311.0 | 446,261.00 | 772,173.00 | 32° 13' 28.717 N | 103° 35' 12.687 W |
| FTP(HT 17 St #708H) - plan misses target center by 163.5usft at 12400.0usft MD (12338.1 TVD, -274.4 N, 347.8 E) - Point | 0.00 | 0.01 | 12,462.0 | -381.0 | 349.0 | 441,181.00 | 772,211.00 | 32° 12' 38.446 N | 103° 35' 12.655 W |

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

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

Submit Original
to Appropriate
District Office

OCD - HOBBS
08/24/2018
RECEIVED

GAS CAPTURE PLAN

Date: 08/24/2018

Original Operator & OGRID No.: EOG Resources, Inc. 7377
 Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple 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 |
|----------------------------|-----------------------------------|-----------------------|--------------------|----------------|------------------|----------------|
| Heartthrob 17 State 703H | 30-025-*** | M-17-24S-33E | 455 FSL & 1079 FWL | ±3500 | None Planned | APD Submission |
| Heartthrob 17 State 704H | 30-025-*** | M-17-24S-33E | 455 FSL & 1112 FWL | ±3500 | None Planned | APD Submission |
| Heartthrob 17 State 705H | 30-025-*** | O-17-24S-33E | 443 FSL & 1401 FEL | ±3500 | None Planned | APD Submission |
| Heartthrob 17 State 706H | 30-025-*** | O-17-24S-33E | 455 FSL & 1368 FEL | ±3500 | None Planned | APD Submission |
| Heartthrob 17 State 707H | 30-025-*** | P-17-24S-33E | 478 FSL & 709 FEL | ±3500 | None Planned | APD Submission |
| ✓ Heartthrob 17 State 708H | 30-025-*** 30-025-45143 | P-17-24S-33E | 483 FSL & 676 FEL | ±3500 | None Planned | APD Submission |

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 **Enterprise Field Services** and will be connected to **EOG Resources** low/high pressure gathering system located in Eddy/Lea County, New Mexico. **EOG Resources** provides (periodically) to **Enterprise Field Services** a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, **EOG Resources** and **Enterprise Field Services** have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at **Enterprise Field Services** Processing Plant located in **Lea** County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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