NOV 07 2014

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

## SUNDRY NOTICES AND REPORTS ON WELLS

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE - Other instructions on reverse side.***

5. Lease Serial No.
NMNM0438001

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
ROSS DRAW 8 FED 1H

2. Name of Operator
EOG RESOURCES INCORPORATED
Contact: STAN WAGNER
E-Mail: stan_wagner@eogresources.com

9. API Well No.
30-015-39248-00-X1

3a. Address
MIDLAND, TX 79702

3b. Phone No. (include area code)
Ph: 432-686-3689

10. Field and Pool, or Exploratory
~~UNDESIGNATED~~
JENNINGS; B.S.

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 8 T26S R31E NWNW 330FNL 520FWL
32.063681 N Lat, 103.806800 W Lon

11. County or Parish, and State
EDDY COUNTY, NM

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☒ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Subsequent Report | ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other Change to Original APD |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

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

EOG Resources requests an amendment to our approved APD to reflect a target change in TVD.

The New target TD is 14810' TMD, 10000' TVD.

A new directional plan and drill plan are attached.

Accepted for record
NMOCD
11-7-2014

Original COA still Applies
I.E. - COA From Sundry dated 10/22/2013
& Approved on 2/7/2014 by JAM

APPROVED
NOV 5 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #263942 verified by the BLM Well Information System**
**For EOG RESOURCES INCORPORATED, sent to the Carlsbad**
**Committed to AFMSS for processing by ED FERNANDEZ on 11/05/2014 (15EF0008SE)**

Name *(Printed/Typed)* STAN WAGNER — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 09/16/2014

### THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ — Title PETROLEUM ENGINEER — Date 11/05/2014

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

EOG RESOURCES, INC.
ROSS DRAW 8 FEDERAL NO. 1H
REVISED 9/15/14

## 1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

## 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| | |
|---|---|
| Rustler | 1,365' |
| Top of Salt | 1,750' |
| Base of Salt | 3,780' |
| Lamar | 3,990' |
| Bell Canyon | 4,020' |
| Cherry Canyon | 4,930' |
| Brushy Canyon | 6,260' |
| Bone Spring Lime | 7,950' |
| Bone Spring Sand 1 | 8,930' |
| Bone Spring 2 Carb | 9,270' |
| Bone Spring 2 Sand | 9,595' |
| TD | 10,000' |

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

| | | |
|---|---|---|
| Upper Permian Sands | 0- 400' | Fresh Water |
| Brushy Canyon | 6,260' | Oil |
| Bone Spring Lime | 7,950' | Oil |

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at 1100' and circulating cement back to surface.

## 4. CASING PROGRAM - NEW

| Hole Size | Interval | Csg OD | Weight | Grade | Conn | $DF_{min}$ Collapse | $DF_{min}$ Burst | $DF_{min}$ Tension |
|---|---|---|---|---|---|---|---|---|
| 17.5" | 0 – 1100' | 13.375" | 54.5# | J55 | STC | 1.125 | 1.25 | 1.60 |
| 12.25" | 0-4000' | 9.625" | 40# | J55 | LTC | 1.125 | 1.25 | 1.60 |
| 8.75" | 0'-14,810' | 5.500" | 17# | P110 or HCP110 | LTC | 1.125 | 1.25 | 1.60 |

**EOG RESOURCES, INC.**
**ROSS DRAW 8 FEDERAL NO. 1H**
**REVISED 9/15/14**

**Cementing Program:**

| Depth | No. Sacks | Wt. lb/gal | Yld $Ft^3/ft$ | Slurry Description |
|---|---|---|---|---|
| 1100' | 400 | 13.5 | 1.73 | Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% $CaCl_2$ + 0.25 lb/sk Cello-Flake (TOC @ surface) |
| | 300 | 14.8 | 1.34 | Tail: Class C + 0.005 pps Static Free + 2% $CaCl_2$ + 0.25 pps CelloFlake + 0.005 gps FP-6L |
| 4,000' | 700 | 12.7 | 2.22 | Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ surface) |
| | 200 | 14.8 | 1.32 | Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free |
| 14,810' | 200 | 10.8 | 3.67 | Lead: 60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free (TOC @ 3500') |
| | 300 | 11.8 | 2.38 | Middle: 50:50:10 Class 'H' + 0.80% FL-52 + 0.45% ASA-301 + 0.40% SMS + 2.00% Salt + 3.00 lb/sx LCM-1 + 0.20% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free |
| | 1725 | 14.2 | 1.28 | Tail: 50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free |

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

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

See COA

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

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

3000 psi BOPE is adequate for this application. Due to the 3000 psi BOPE requirement no FIT tests are planned.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 2000/ 250 psig and the annular preventer to 2000/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000/ 250 psig and the annular preventer to 3000/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

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

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

The applicable depths and properties of the drilling fluid systems are as follows. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| Depth | Type | Weight (ppg) | Viscosity | Water Loss |
|---|---|---|---|---|
| 0 – 1100' | Fresh Water Gel | 8.6-8.8 | 28-34 | N/c |
| 1100' – 4,000' | Saturated Brine | 10.0-10.2 | 28-34 | N/c |
| 4,000' – 9,405' | Fresh Water | 8.4-8.6 | 28-34 | N/c |
| 9,405'– 14,810' Lateral | Cut Brine Water | 9.0-9.5 | 28-34 | N/c |

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

## 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

(C) A mud logging unit will be continuously monitoring drill penetration rate and hydrocarbon shows from intermediate casing point to TD.

(D) $H_2S$ monitoring and detection equipment will be utilized from surface casing point to TD.

## 8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logging is anticipated in the 8-3/4" hole section. The logging suites scheduled for this hole section are listed below:

| | |
|---|---|
| NGT–CNL–LDT w/ Pe | From TD to previous casing shoe. At casing pull GR – Neutron to surface. |
| HR Laterolog Array | From TD to previous casing shoe. |

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

The estimated bottom-hole temperature (BHT) at TD is 159 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4330 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

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

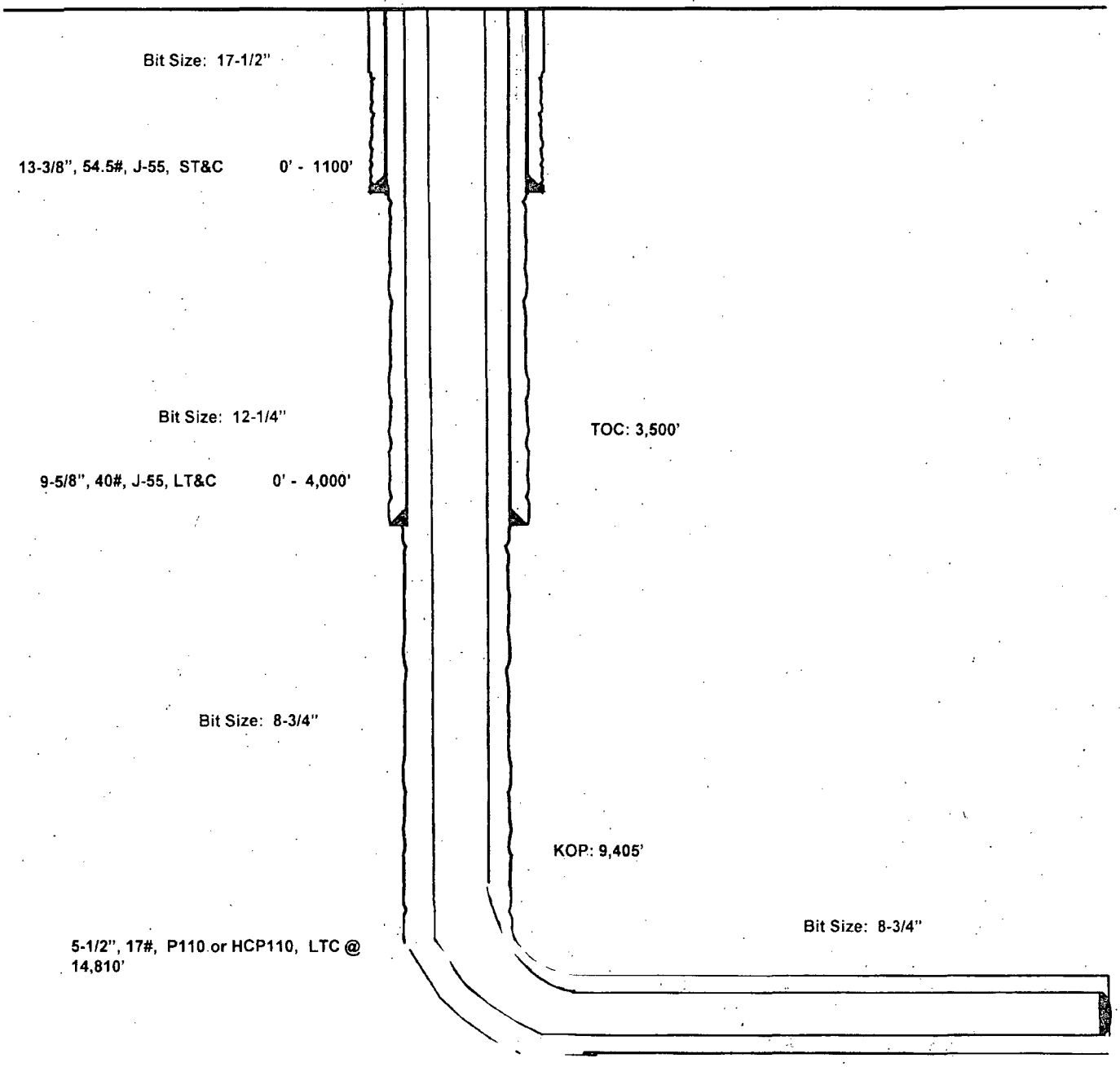
The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

# Ross Draw 8 Fed #1H
## Eddy County, New Mexico
## Proposed Wellbore
## Revised 9/15/14

330' FNL
520' FWL
Section 8
T-26-S, R-31-E

API: 30-015-39248

KB: 3,308'
GL: 3,278'




Lateral:
14,810' MD, 10,000' TVD

BH Location: 230' FSL & 380' FWL
Section 8
T-26-S, R-31-E

# eog resources

**Eddy County, NM (NAD 27 NME)**

**Ross Draw 8 Fed #1H**

**H&P 288**

**Plan #1**

| PROJECT DETAILS: Eddy County, NM (NAD 27 NME) |
|---|
| Geodetic System: US State Plane 1927 (Exact solution)<br>Datum: NAD 1927 (NADCON CONUS)<br>Ellipsoid: Clarke 1866<br>Zone: New Mexico East 3001<br>System Datum: Mean Sea Level |

Azimuths to Grid North
True North: -0.28°
Magnetic North: 7.00°

Magnetic Field
Strength: 48170.3snT
Dip Angle: 59.92°
Date: 9/18/2014
Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction, Add 7.00°
To convert a Magnetic Direction to a True Direction, Add 7.28° East
To convert a True Direction to a Grid Direction, Subtract 0.28°

**WELL DETAILS: #1H**

Ground Level: 3278.0
KB = 24 @ 3302.0usft (H&P 288)

| Northing | Easting | Latitude | Longitude |
|---|---|---|---|
| 387290.00 | 663111.00 | 32° 3' 49.254 N | 103° 48' 24.478 W |

**SECTION DETAILS**

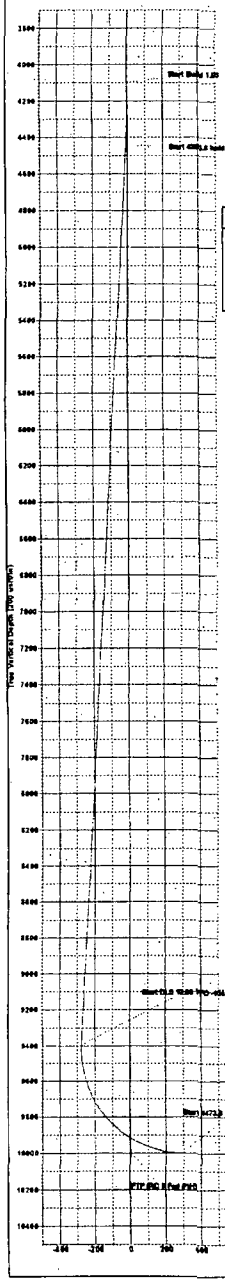
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target | Annotation |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | | |
| 2 | 4100.0 | 0.00 | 0.00 | 4100.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | | |
| 3 | 4444.3 | 3.44 | 335.29 | 4444.1 | 9.4 | -4.3 | 1.00 | 335.29 | -8.3 | | |
| 4 | 9405.1 | 3.44 | 335.29 | 9395.9 | 280.0 | -128.9 | 0.00 | 0.00 | -276.8 | | |
| 5 | 10338.4 | 90.00 | 179.81 | 10000.0 | -282.1 | -143.0 | 10.00 | -166.44 | 295.8 | | |
| 6 | 14810.3 | 90.00 | 179.81 | 10000.0 | -4766.0 | -127.0 | 0.00 | 0.00 | 4767.7 | PBHL(RD 8 Fed #1H) | |

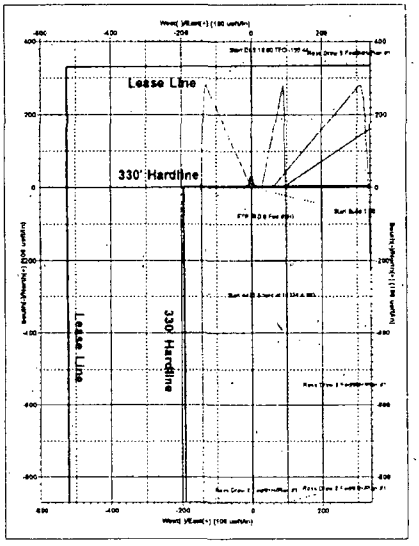
**CASING DETAILS**

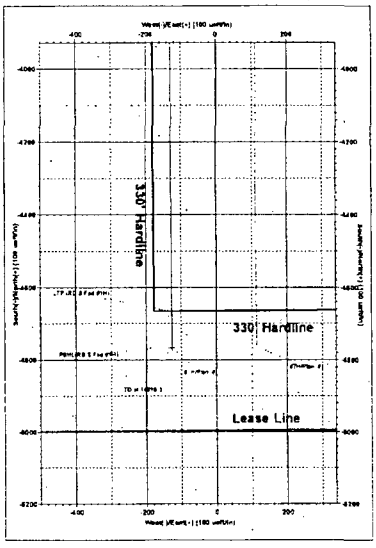
No casing data is available

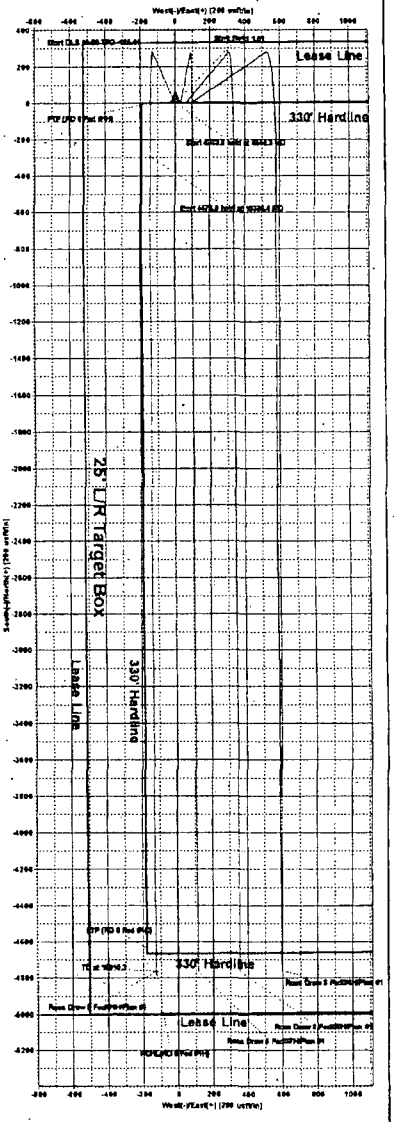
**WELLBORE TARGET DETAILS (MAP CO-ORDINATES)**

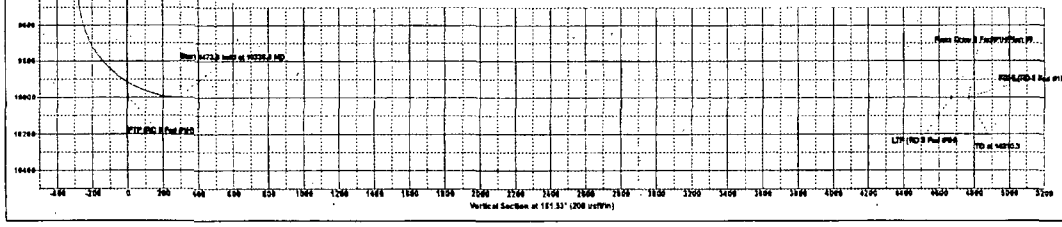
| Name | TVD | +N/-S | +E/-W | Northing | Easting |
|---|---|---|---|---|---|
| FTP (RD 8 Fed #1H) | 10000.0 | 2.0 | -143.0 | 387292.00 | 662968.00 |
| LTP (RD 8 Fed #1H) | 10000.0 | -4666.0 | -128.0 | 382624.00 | 662982.00 |
| PBHL(RD 8 Fed #1H) | 10000.0 | -4766.0 | -127.0 | 382524.00 | 662984.00 |





# EOG Resources - Midland

**Eddy County, NM (NAD 27 NME)**
**Ross Draw 8 Fed**
**#1H**

**OH**

**Plan: Plan #1**

# Standard Planning Report

**15 September, 2014**

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well #1H |
| **Company:** | EOG Resources - Midland | **TVD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Project:** | Eddy County, NM (NAD 27 NME) | **MD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Site:** | Ross Draw 8 Fed | **North Reference:** | Grid |
| **Well:** | #1H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #1 | | |

| | | | |
|---|---|---|---|
| **Project** | Eddy County, NM (NAD 27 NME) | | |
| **Map System:** | US State Plane 1927 (Exact solution) | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | NAD 1927 (NADCON CONUS) | | |
| **Map Zone:** | New Mexico East 3001 | | |

| | | | | | |
|---|---|---|---|---|---|
| **Site** | Ross Draw 8 Fed | | | | |
| **Site Position:** | | **Northing:** | 387,290.00 usft | **Latitude:** | 32° 3' 49.254 N |
| **From:** | Map | **Easting:** | 663,111.00 usft | **Longitude:** | 103° 48' 24.476 W |
| **Position Uncertainty:** | 0.0 usft | **Slot Radius:** | 13-3/16 " | **Grid Convergence:** | 0.28 ° |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well** | #1H | | | | | |
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 387,290.00 usft | **Latitude:** | 32° 3' 49.254 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 663,111.00 usft | **Longitude:** | 103° 48' 24.476 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | 0.0 usft | **Ground Level:** | 3,278.0 usft |

| | | | | | |
|---|---|---|---|---|---|
| **Wellbore** | OH | | | | |
| **Magnetics** | **Model Name** | **Sample Date** | **Declination (°)** | **Dip Angle (°)** | **Field Strength (nT)** |
| | IGRF201014 | 9/15/2014 | 7.28 | 59.92 | 48,170 |

| | | | | | |
|---|---|---|---|---|---|
| **Design** | Plan #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 | 181.53 | |

**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 | |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,444.3 | 3.44 | 335.29 | 4,444.1 | 9.4 | -4.3 | 1.00 | 1.00 | 0.00 | 335.29 | |
| 9,405.1 | 3.44 | 335.29 | 9,395.9 | 280.0 | -128.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,336.4 | 90.00 | 179.81 | 10,000.0 | -292.1 | -142.0 | 10.00 | 9.29 | -16.69 | -155.44 | |
| 14,810.3 | 90.00 | 179.81 | 10,000.0 | -4,766.0 | -127.0 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL(RD 8 Fed #1H) |

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well #1H |
| **Company:** | EOG Resources - Midland | **TVD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Project:** | Eddy County, NM (NAD 27 NME) | **MD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Site:** | Ross Draw 8 Fed | **North Reference:** | Grid |
| **Well:** | #1H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #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 | 0.00 | 0.00 | 3,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 0.00 | 0.00 | 3,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 1.00 | 335.29 | 4,200.0 | 0.8 | -0.4 | -0.8 | 1.00 | 1.00 | 0.00 |
| 4,300.0 | 2.00 | 335.29 | 4,300.0 | 3.2 | -1.5 | -3.1 | 1.00 | 1.00 | 0.00 |
| 4,400.0 | 3.00 | 335.29 | 4,399.9 | 7.1 | -3.3 | -7.0 | 1.00 | 1.00 | 0.00 |
| 4,444.3 | 3.44 | 335.29 | 4,444.1 | 9.4 | -4.3 | -9.3 | 1.00 | 1.00 | 0.00 |
| 4,500.0 | 3.44 | 335.29 | 4,499.7 | 12.4 | -5.7 | -12.3 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 3.44 | 335.29 | 4,599.5 | 17.9 | -8.2 | -17.7 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 3.44 | 335.29 | 4,699.3 | 23.3 | -10.7 | -23.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 3.44 | 335.29 | 4,799.2 | 28.8 | -13.3 | -28.4 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 3.44 | 335.29 | 4,899.0 | 34.3 | -15.8 | -33.8 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 3.44 | 335.29 | 4,998.8 | 39.7 | -18.3 | -39.2 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 3.44 | 335.29 | 5,098.6 | 45.2 | -20.8 | -44.6 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 3.44 | 335.29 | 5,198.4 | 50.6 | -23.3 | -50.0 | 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well #1H |
| **Company:** | EOG Resources - Midland | **TVD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Project:** | Eddy County, NM (NAD 27 NME) | **MD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Site:** | Ross Draw 8 Fed | **North Reference:** | Grid |
| **Well:** | #1H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #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 | 3.44 | 335.29 | 5,298.2 | 56.1 | -25.8 | -55.4 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 3.44 | 335.29 | 5,398.1 | 61.5 | -28.3 | -60.8 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 3.44 | 335.29 | 5,497.9 | 67.0 | -30.8 | -66.1 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 3.44 | 335.29 | 5,597.7 | 72.4 | -33.3 | -71.5 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 3.44 | 335.29 | 5,697.5 | 77.9 | -35.8 | -76.9 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 3.44 | 335.29 | 5,797.3 | 83.4 | -38.4 | -82.3 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 3.44 | 335.29 | 5,897.2 | 88.8 | -40.9 | -87.7 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 3.44 | 335.29 | 5,997.0 | 94.3 | -43.4 | -93.1 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 3.44 | 335.29 | 6,096.8 | 99.7 | -45.9 | -98.5 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 3.44 | 335.29 | 6,196.6 | 105.2 | -48.4 | -103.8 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 3.44 | 335.29 | 6,296.4 | 110.6 | -50.9 | -109.2 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 3.44 | 335.29 | 6,396.3 | 116.1 | -53.4 | -114.6 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 3.44 | 335.29 | 6,496.1 | 121.5 | -55.9 | -120.0 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 3.44 | 335.29 | 6,595.9 | 127.0 | -58.4 | -125.4 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 3.44 | 335.29 | 6,695.7 | 132.5 | -60.9 | -130.8 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 3.44 | 335.29 | 6,795.5 | 137.9 | -63.5 | -136.2 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 3.44 | 335.29 | 6,895.4 | 143.4 | -66.0 | -141.6 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 3.44 | 335.29 | 6,995.2 | 148.8 | -68.5 | -146.9 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 3.44 | 335.29 | 7,095.0 | 154.3 | -71.0 | -152.3 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 3.44 | 335.29 | 7,194.8 | 159.7 | -73.5 | -157.7 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 3.44 | 335.29 | 7,294.6 | 165.2 | -76.0 | -163.1 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 3.44 | 335.29 | 7,394.5 | 170.6 | -78.5 | -168.5 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 3.44 | 335.29 | 7,494.3 | 176.1 | -81.0 | -173.9 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 3.44 | 335.29 | 7,594.1 | 181.5 | -83.5 | -179.3 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 3.44 | 335.29 | 7,693.9 | 187.0 | -86.1 | -184.6 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 3.44 | 335.29 | 7,793.7 | 192.5 | -88.6 | -190.0 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 3.44 | 335.29 | 7,893.6 | 197.9 | -91.1 | -195.4 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 3.44 | 335.29 | 7,993.4 | 203.4 | -93.6 | -200.8 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 3.44 | 335.29 | 8,093.2 | 208.8 | -96.1 | -206.2 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 3.44 | 335.29 | 8,193.0 | 214.3 | -98.6 | -211.6 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 3.44 | 335.29 | 8,292.8 | 219.7 | -101.1 | -217.0 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 3.44 | 335.29 | 8,392.7 | 225.2 | -103.6 | -222.4 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 3.44 | 335.29 | 8,492.5 | 230.6 | -106.1 | -227.7 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 3.44 | 335.29 | 8,592.3 | 236.1 | -108.6 | -233.1 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 3.44 | 335.29 | 8,692.1 | 241.6 | -111.2 | -238.5 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 3.44 | 335.29 | 8,791.9 | 247.0 | -113.7 | -243.9 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 3.44 | 335.29 | 8,891.8 | 252.5 | -116.2 | -249.3 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 3.44 | 335.29 | 8,991.6 | 257.9 | -118.7 | -254.7 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 3.44 | 335.29 | 9,091.4 | 263.4 | -121.2 | -260.1 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 3.44 | 335.29 | 9,191.2 | 268.8 | -123.7 | -265.4 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 3.44 | 335.29 | 9,291.0 | 274.3 | -126.2 | -270.8 | 0.00 | 0.00 | 0.00 |
| 9,405.1 | 3.44 | 335.29 | 9,395.9 | 280.0 | -128.9 | -276.5 | 0.00 | 0.00 | 0.00 |
| 9,450.0 | 1.97 | 226.25 | 9,440.8 | 280.7 | -130.0 | -277.2 | 10.00 | -3.27 | -242.77 |
| 9,500.0 | 6.52 | 192.43 | 9,490.7 | 277.3 | -131.2 | -273.8 | 10.00 | 9.09 | -67.64 |
| 9,550.0 | 11.45 | 186.89 | 9,540.0 | 269.6 | -132.4 | -266.0 | 10.00 | 9.86 | -11.08 |
| 9,600.0 | 16.42 | 184.67 | 9,588.6 | 257.7 | -133.6 | -254.0 | 10.00 | 9.94 | -4.44 |
| 9,650.0 | 21.40 | 183.46 | 9,635.8 | 241.5 | -134.7 | -237.8 | 10.00 | 9.97 | -2.42 |
| 9,700.0 | 26.40 | 182.69 | 9,681.5 | 221.3 | -135.8 | -217.6 | 10.00 | 9.98 | -1.54 |
| 9,750.0 | 31.39 | 182.15 | 9,725.3 | 197.2 | -136.8 | -193.4 | 10.00 | 9.99 | -1.08 |
| 9,800.0 | 36.38 | 181.75 | 9,766.8 | 169.3 | -137.7 | -165.6 | 10.00 | 9.99 | -0.81 |
| 9,850.0 | 41.38 | 181.43 | 9,805.7 | 137.9 | -138.6 | -134.2 | 10.00 | 9.99 | -0.64 |
| 9,900.0 | 46.38 | 181.17 | 9,841.7 | 103.3 | -139.4 | -99.6 | 10.00 | 9.99 | -0.52 |
| 9,950.0 | 51.37 | 180.95 | 9,874.6 | 65.7 | -140.1 | -61.9 | 10.00 | 9.99 | -0.44 |
| 10,000.0 | 56.37 | 180.76 | 9,904.1 | 25.3 | -140.7 | -21.5 | 10.00 | 10.00 | -0.38 |

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well #1H |
| **Company:** | EOG Resources - Midland | **TVD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Project:** | Eddy County, NM (NAD 27 NME) | **MD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Site:** | Ross Draw 8 Fed | **North Reference:** | Grid |
| **Well:** | #1H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #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) |
|---|---|---|---|---|---|---|---|---|---|
| 10,050.0 | 61.37 | 180.59 | 9,929.9 | -17.5 | -141.2 | 21.2 | 10.00 | 10.00 | -0.34 |
| 10,063.4 | 62.71 | 180.55 | 9,936.2 | -29.3 | -141.3 | 33.1 | 10.00 | 10.00 | -0.32 |
| FTP (RD 8 Fed #1H) | | | | | | | | | |
| 10,100.0 | 66.37 | 180.43 | 9,951.9 | -62.4 | -141.6 | 66.1 | 10.00 | 10.00 | -0.31 |
| 10,150.0 | 71.37 | 180.29 | 9,970.0 | -109.0 | -141.9 | 112.7 | 10.00 | 10.00 | -0.29 |
| 10,200.0 | 76.36 | 180.15 | 9,983.8 | -157.0 | -142.1 | 160.7 | 10.00 | 10.00 | -0.27 |
| 10,250.0 | 81.36 | 180.03 | 9,993.5 | -206.0 | -142.1 | 209.8 | 10.00 | 10.00 | -0.26 |
| 10,300.0 | 86.36 | 179.90 | 9,998.8 | -255.7 | -142.1 | 259.4 | 10.00 | 10.00 | -0.25 |
| 10,336.4 | 90.00 | 179.81 | 10,000.0 | -292.1 | -142.0 | 295.8 | 10.00 | 10.00 | -0.25 |
| 10,400.0 | 90.00 | 179.81 | 10,000.0 | -355.7 | -141.8 | 359.4 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 179.81 | 10,000.0 | -455.7 | -141.5 | 459.3 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 179.81 | 10,000.0 | -555.7 | -141.1 | 559.3 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 179.81 | 10,000.0 | -655.7 | -140.8 | 659.2 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 179.81 | 10,000.0 | -755.7 | -140.5 | 759.2 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 179.81 | 10,000.0 | -855.7 | -140.1 | 859.1 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 179.81 | 10,000.0 | -955.7 | -139.8 | 959.1 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 179.81 | 10,000.0 | -1,055.7 | -139.5 | 1,059.1 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 179.81 | 10,000.0 | -1,155.7 | -139.1 | 1,159.0 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 179.81 | 10,000.0 | -1,255.7 | -138.8 | 1,259.0 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 179.81 | 10,000.0 | -1,355.7 | -138.4 | 1,358.9 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 179.81 | 10,000.0 | -1,455.7 | -138.1 | 1,458.9 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 179.81 | 10,000.0 | -1,555.7 | -137.8 | 1,558.8 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 179.81 | 10,000.0 | -1,655.7 | -137.4 | 1,658.8 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 179.81 | 10,000.0 | -1,755.7 | -137.1 | 1,758.7 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 179.81 | 10,000.0 | -1,855.7 | -136.8 | 1,858.7 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 179.81 | 10,000.0 | -1,955.7 | -136.4 | 1,958.6 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 179.81 | 10,000.0 | -2,055.7 | -136.1 | 2,058.6 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 179.81 | 10,000.0 | -2,155.7 | -135.8 | 2,158.6 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 179.81 | 10,000.0 | -2,255.7 | -135.4 | 2,258.5 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 179.81 | 10,000.0 | -2,355.7 | -135.1 | 2,358.5 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 179.81 | 10,000.0 | -2,455.7 | -134.8 | 2,458.4 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 179.81 | 10,000.0 | -2,555.7 | -134.4 | 2,558.4 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 179.81 | 10,000.0 | -2,655.7 | -134.1 | 2,658.3 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 179.81 | 10,000.0 | -2,755.7 | -133.7 | 2,758.3 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 179.81 | 10,000.0 | -2,855.7 | -133.4 | 2,858.2 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 179.81 | 10,000.0 | -2,955.7 | -133.1 | 2,958.2 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 179.81 | 10,000.0 | -3,055.7 | -132.7 | 3,058.2 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 179.81 | 10,000.0 | -3,155.7 | -132.4 | 3,158.1 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 179.81 | 10,000.0 | -3,255.7 | -132.1 | 3,258.1 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 179.81 | 10,000.0 | -3,355.7 | -131.7 | 3,358.0 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 179.81 | 10,000.0 | -3,455.7 | -131.4 | 3,458.0 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 179.81 | 10,000.0 | -3,555.7 | -131.1 | 3,557.9 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 179.81 | 10,000.0 | -3,655.7 | -130.7 | 3,657.9 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 179.81 | 10,000.0 | -3,755.7 | -130.4 | 3,757.8 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 179.81 | 10,000.0 | -3,855.7 | -130.1 | 3,857.8 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 179.81 | 10,000.0 | -3,955.7 | -129.7 | 3,957.8 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 179.81 | 10,000.0 | -4,055.7 | -129.4 | 4,057.7 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 179.81 | 10,000.0 | -4,155.7 | -129.0 | 4,157.7 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 179.81 | 10,000.0 | -4,255.7 | -128.7 | 4,257.6 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 179.81 | 10,000.0 | -4,355.7 | -128.4 | 4,357.6 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 179.81 | 10,000.0 | -4,455.7 | -128.0 | 4,457.5 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 179.81 | 10,000.0 | -4,555.7 | -127.7 | 4,557.5 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 179.81 | 10,000.0 | -4,655.7 | -127.4 | 4,657.4 | 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well #1H |
| **Company:** | EOG Resources - Midland | **TVD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Project:** | Eddy County, NM (NAD 27 NME) | **MD Reference:** | KB = 24 @ 3302.0usft (H&P 288) |
| **Site:** | Ross Draw 8 Fed | **North Reference:** | Grid |
| **Well:** | #1H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #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) |
|---|---|---|---|---|---|---|---|---|---|
| 14,710.3 | 90.00 | 179.81 | 10,000.0 | -4,666.0 | -127.3 | 4,667.7 | 0.00 | 0.00 | 0.00 |
| **LTP (RD 8 Fed #1H)** | | | | | | | | | |
| 14,800.0 | 90.00 | 179.81 | 10,000.0 | -4,755.7 | -127.0 | 4,757.4 | 0.00 | 0.00 | 0.00 |
| 14,810.3 | 90.00 | 179.81 | 10,000.0 | -4,766.0 | -127.0 | 4,767.7 | 0.00 | 0.00 | 0.00 |
| **PBHL(RD 8 Fed #1H)** | | | | | | | | | |

**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 |
|---|---|---|---|---|---|---|---|---|---|
| FTP (RD 8 Fed #1H) | 0.00 | 0.00 | 10,000.0 | 2.0 | -143.0 | 387,292.00 | 662,968.00 | 32° 3' 49.281 N | 103° 48' 26.137 W |
| - plan misses target center by 71.1usft at 10063.4usft MD (9936.2 TVD, -29.3 N, -141.3 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| LTP (RD 8 Fed #1H) | 0.00 | 0.00 | 10,000.0 | -4,666.0 | -128.0 | 382,624.00 | 662,983.00 | 32° 3' 3.085 N | 103° 48' 26.227 W |
| - plan misses target center by 0.7usft at 14710.3usft MD (10000.0 TVD, -4666.0 N, -127.3 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| PBHL(RD 8 Fed #1H) | 0.00 | 0.00 | 10,000.0 | -4,766.0 | -127.0 | 382,524.00 | 662,984.00 | 32° 3' 2.095 N | 103° 48' 26.221 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |