

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.*5. Lease Serial No.
NMNM0438001

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
ROSS DRAW 8 FED 8H

2. Name of Operator

EOG RESOURCES INCORPORATED

Contact: STAN WAGNER

E-Mail: stan_wagner@eogresources.com

9. API Well No.
30-015-42265-00-X1

3a. Address

MIDLAND, TX 79702

3b. Phone-No. (include area code)

Ph: 432-686-3689

10. Field and Pool, or Exploratory
JENNINGS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 8 T26S R31E NWNW 0333FNL 0583FWL
32.063692 N Lat, 103.805711 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 Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 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 TD is 14813' TMD, 10000' TVD.

A new directional plan and drill plan are attached.

Original COA Still Applies

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 07 2014

RECEIVED

Accepted for record

TOS NMOC

11/14

APPROVED

NOV 5 2014

BUREAU OF LAND MANAGEMENT

CARLSBAD FIELD OFFICE

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

Electronic Submission #263941 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 (15EF0009SE)

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 FED NO. 8H
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 / Lamar	3,780'
Bell Canyon	4,020'
Cherry Canyon	4,930'
Brushy Canyon	6,260'
Bone Spring Lime	7,950'
Bone Spring 2 Sand	9,615'
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 1400' 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 – 1400'	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'-14,813'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
ROSS DRAW 8 FED NO. 8H
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Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
1400'	600	13.5	1.73	9.13	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	6.34	Tail: Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
4,000'	600	12.7	2.22	12.38	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	6.26	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
14,813'	200	10.8	3.67	21.4	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	13.25	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	5.75	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:

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.

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

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. CLOSED LOOP SYSTEM, OPERATION, MAINTENANCE & CLOSURE

Operator will operate and maintain a closed loop drilling system as follows:

- (A) All drilling fluids used will be recycled, reused or reclaimed.
- (B) Excess or unused fluid shall be disposed of at division approved facilities.
- (C) No hazardous waste shall be knowingly discharged into the closed loop system.
- (D) If a leak develops in any of the closed loop tanks, all liquid shall be removed from the effected tank within 48 hours and any damage shall be repaired prior to putting the tank back into service.
- (E) A level measuring device shall be utilized to monitor catch tank levels, so that excess fluid can be removed appropriately, utilizing a re-circulating pump or vacuum truck.
- (F) Surface water run-on shall be bermed and/ or collected and disposed of at a division approved facility.
- (G) A skimmer system shall be utilized on catch tanks, circulating tanks and over-flow tanks as needed to collect oil.
- (H) Drill cuttings shall be disposed of in steel cuttings bins (catch tanks) on the drilling pad (behind the steel mud tanks). The bin and cuttings shall be hauled to a division approved facility by an approved transporter. Cuttings shall be removed, and the bin will be returned to the drilling site for re-use.
- (I) Remaining drilling fluids shall be hauled off by approved transports to a division approved disposal facility. Water produced during completion shall be put in storage tanks and disposed of at a division approved facility. Oil and condensate produced shall be put in storage tanks and sold or put in a sales pipeline.
- (J) Within 120 days after the drilling and completion of the well, the location area shall be reduced as determined by the operator to the minimum area necessary to safely and effective operate the well. The reclaimed location area shall be restored to the condition that existed prior to oil and gas operations.

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

7. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1400'	Fresh Water Gel	8.6-8.8	28-34	N/c
1400' – 4,000'	Saturated Brine	10.0-10.2	28-34	N/c
4,000' – 9,409'	Fresh Water	8.4-8.6	28-34	N/c
9,409' – 14,813' 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.

8. 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) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

9. LOGGING, TESTING AND CORING PROGRAM:

See COA

Open-hole logs are not planned for this well.

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

10. 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.

11. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

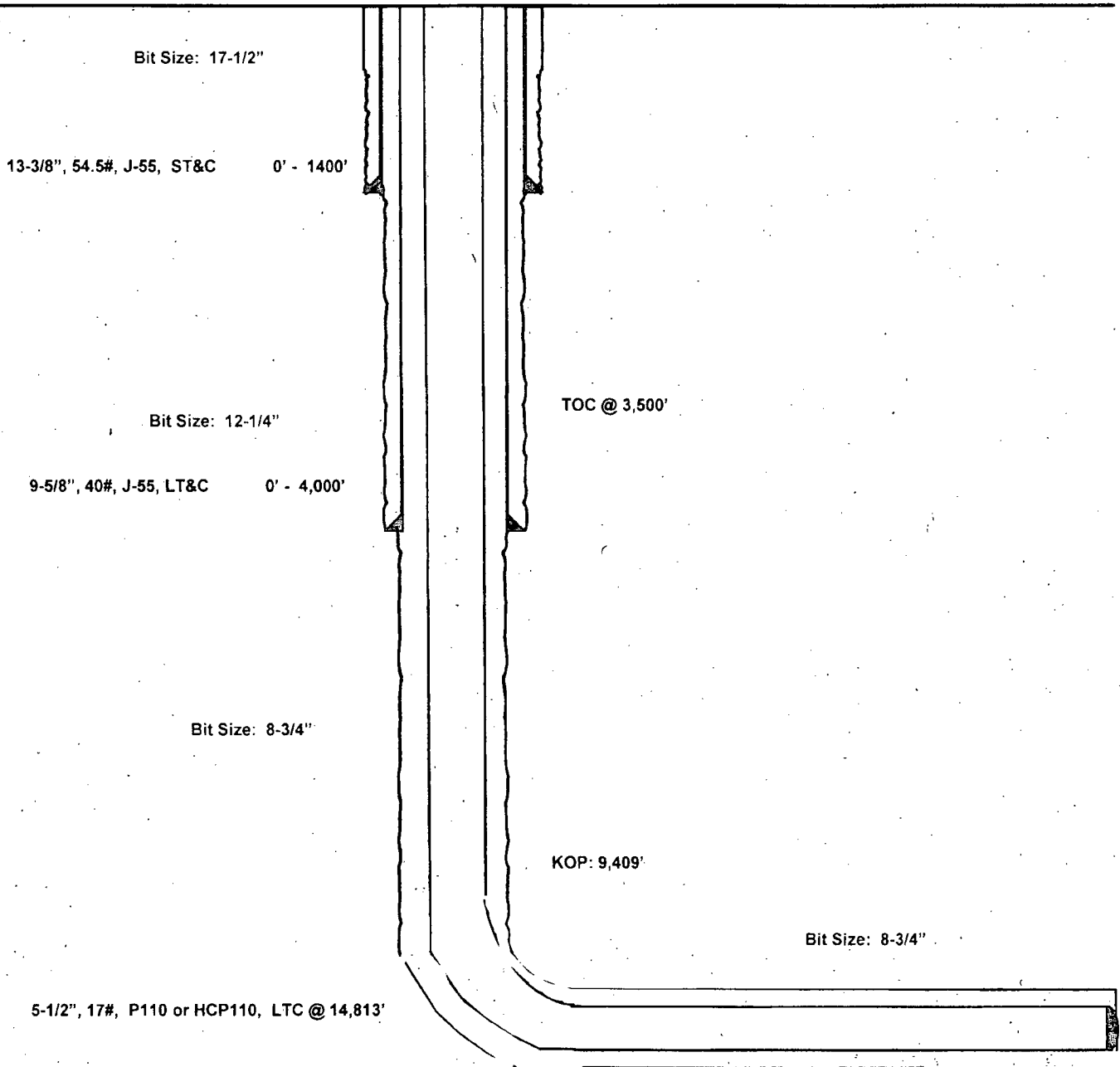
The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

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

333' FNL
583' FWL
Section 8
T-26-S, R-31-E

API: 30-015-42265

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



Lateral:
14,813' MD, 10,000' TVD
BH Location: 230' FSL & 860' FWL
Section 8
T-26-S, R-31-E



Eddy County, NM (NAD 27 NME)

Ross Draw 8 Fed #8H

H&P 288

Plan #1

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #8H

Ground Level: 3278.0
KB = 24 @ 3302.00ft (H&P 288)
Northing: 387291.00 Easting: 653171.00
Latitude: 32° 3' 48.281 N Longitude: 103° 48' 23.778 W

SECTION DETAILS

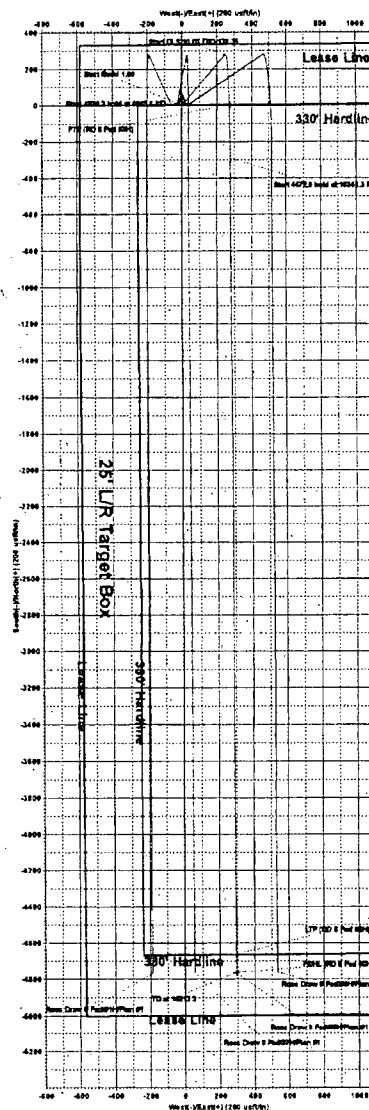
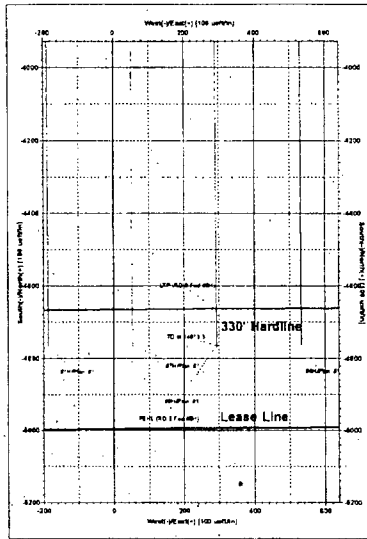
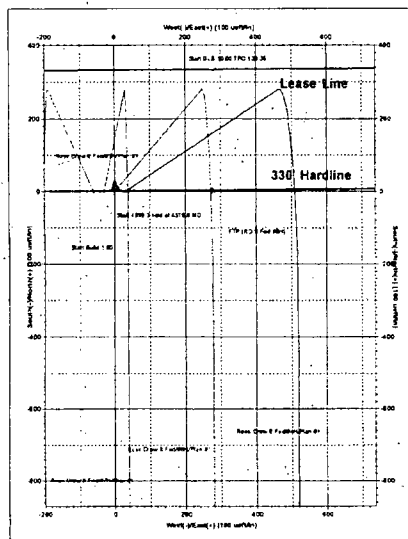
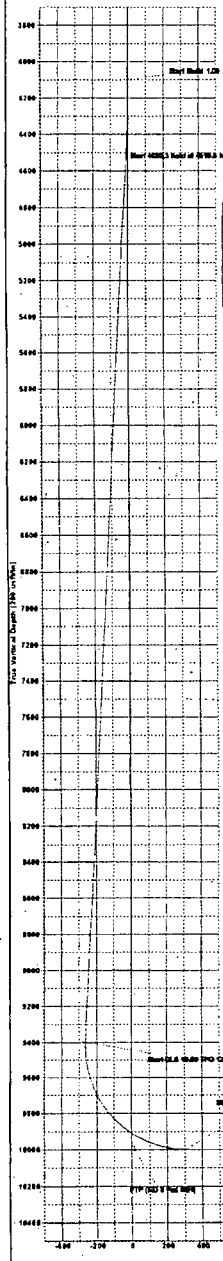
Sec	MD	Inc	Ati	TVD	+N/S	+E/W	Deg	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4100.0	0.00	0.00	4100.0	0.0	0.0	0.00	0.00	0.0		
3	4819.8	4.20	41.38	4619.2	11.8	10.2	1.00	41.38	-10.8		
4	5608.8	4.20	41.38	5398.4	290.0	244.7	0.00	0.00	-244.3		
5	10341.5	90.00	179.81	10000.0	-292.0	271.0	10.00	128.36	308.8		
6	14813.3	90.00	179.81	10000.0	-4784.0	293.0	0.00	0.00	4773.0	PBHL (RD 8 Fed #8H)	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
FTP (RD 8 Fed #8H)	16000.0	4.0	277.0	387290.00	653448.00
LTP (RD 8 Fed #8H)	16000.0	-4664.0	292.0	382827.00	653443.00
PBHL (RD 8 Fed #8H)	16000.0	-4764.0	293.0	382527.00	653444.00





EOG Resources - Midland

Eddy County, NM (NAD 27 NME)

Ross Draw 8 Fed

#8H

OH

Plan: Plan #1

Standard Planning Report

15 September, 2014



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Eddy County, NM (NAD 27 NME)
Site: Ross Draw 8 Fed
Well: #8H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #8H
TVD Reference: KB = 24 @ 3302.0usft (H&P 288)
MD Reference: KB = 24 @ 3302.0usft (H&P 288)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	#8H			
Well Position	+N/-S	1.0 usft	Northing:	387,291.00 usft
	+E/-W	60.0 usft	Easting:	663,171.00 usft
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	176.48

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	
4,519.6	4.20	41.38	4,519.2	11.5	10.2	1.00	1.00	0.00	41.38	
9,409.9	4.20	41.38	9,396.4	280.0	246.7	0.00	0.00	0.00	0.00	
10,341.3	90.00	179.81	10,000.0	-292.0	278.0	10.00	9.21	14.86	138.35	
14,813.3	90.00	179.81	10,000.0	-4,764.0	293.0	0.00	0.00	0.00	0.00	PBHL (RD 8 Fed #8H)



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Eddy County, NM (NAD 27 NME)
 Site: Ross Draw 8 Fed
 Well: #8H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #8H
 TVD Reference: KB = 24 @ 3302.0usft (H&P 288)
 MD Reference: KB = 24 @ 3302.0usft (H&P 288)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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	41.38	4,200.0	0.7	0.6	-0.6	1.00	1.00	0.00
4,300.0	2.00	41.38	4,300.0	2.6	2.3	-2.5	1.00	1.00	0.00
4,400.0	3.00	41.38	4,399.9	5.9	5.2	-5.6	1.00	1.00	0.00
4,500.0	4.00	41.38	4,499.7	10.5	9.2	-9.9	1.00	1.00	0.00
4,519.6	4.20	41.38	4,519.2	11.5	10.2	-10.9	1.00	1.00	0.00
4,600.0	4.20	41.38	4,599.4	15.9	14.0	-15.0	0.00	0.00	0.00
4,700.0	4.20	41.38	4,699.1	21.4	18.9	-20.2	0.00	0.00	0.00
4,800.0	4.20	41.38	4,798.9	26.9	23.7	-25.4	0.00	0.00	0.00
4,900.0	4.20	41.38	4,898.6	32.4	28.6	-30.6	0.00	0.00	0.00
5,000.0	4.20	41.38	4,998.3	37.9	33.4	-35.8	0.00	0.00	0.00
5,100.0	4.20	41.38	5,098.1	43.4	38.2	-41.0	0.00	0.00	0.00
5,200.0	4.20	41.38	5,197.8	48.9	43.1	-46.1	0.00	0.00	0.00



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Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #8H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	4.20	41.38	5,297.5	54.4	47.9	-51.3	0.00	0.00	0.00
5,400.0	4.20	41.38	5,397.3	59.9	52.7	-56.5	0.00	0.00	0.00
5,500.0	4.20	41.38	5,497.0	65.3	57.6	-61.7	0.00	0.00	0.00
5,600.0	4.20	41.38	5,596.7	70.8	62.4	-66.9	0.00	0.00	0.00
5,700.0	4.20	41.38	5,696.5	76.3	67.2	-72.0	0.00	0.00	0.00
5,800.0	4.20	41.38	5,796.2	81.8	72.1	-77.2	0.00	0.00	0.00
5,900.0	4.20	41.38	5,895.9	87.3	76.9	-82.4	0.00	0.00	0.00
6,000.0	4.20	41.38	5,995.7	92.8	81.8	-87.6	0.00	0.00	0.00
6,100.0	4.20	41.38	6,095.4	98.3	86.6	-92.8	0.00	0.00	0.00
6,200.0	4.20	41.38	6,195.1	103.8	91.4	-98.0	0.00	0.00	0.00
6,300.0	4.20	41.38	6,294.9	109.3	96.3	-103.1	0.00	0.00	0.00
6,400.0	4.20	41.38	6,394.6	114.7	101.1	-108.3	0.00	0.00	0.00
6,500.0	4.20	41.38	6,494.3	120.2	105.9	-113.5	0.00	0.00	0.00
6,600.0	4.20	41.38	6,594.0	125.7	110.8	-118.7	0.00	0.00	0.00
6,700.0	4.20	41.38	6,693.8	131.2	115.6	-123.9	0.00	0.00	0.00
6,800.0	4.20	41.38	6,793.5	136.7	120.5	-129.1	0.00	0.00	0.00
6,900.0	4.20	41.38	6,893.2	142.2	125.3	-134.2	0.00	0.00	0.00
7,000.0	4.20	41.38	6,993.0	147.7	130.1	-139.4	0.00	0.00	0.00
7,100.0	4.20	41.38	7,092.7	153.2	135.0	-144.6	0.00	0.00	0.00
7,200.0	4.20	41.38	7,192.4	158.7	139.8	-149.8	0.00	0.00	0.00
7,300.0	4.20	41.38	7,292.2	164.2	144.6	-155.0	0.00	0.00	0.00
7,400.0	4.20	41.38	7,391.9	169.6	149.5	-160.1	0.00	0.00	0.00
7,500.0	4.20	41.38	7,491.6	175.1	154.3	-165.3	0.00	0.00	0.00
7,600.0	4.20	41.38	7,591.4	180.6	159.1	-170.5	0.00	0.00	0.00
7,700.0	4.20	41.38	7,691.1	186.1	164.0	-175.7	0.00	0.00	0.00
7,800.0	4.20	41.38	7,790.8	191.6	168.8	-180.9	0.00	0.00	0.00
7,900.0	4.20	41.38	7,890.6	197.1	173.7	-186.1	0.00	0.00	0.00
8,000.0	4.20	41.38	7,990.3	202.6	178.5	-191.2	0.00	0.00	0.00
8,100.0	4.20	41.38	8,090.0	208.1	183.3	-196.4	0.00	0.00	0.00
8,200.0	4.20	41.38	8,189.8	213.6	188.2	-201.6	0.00	0.00	0.00
8,300.0	4.20	41.38	8,289.5	219.0	193.0	-206.8	0.00	0.00	0.00
8,400.0	4.20	41.38	8,389.2	224.5	197.8	-212.0	0.00	0.00	0.00
8,500.0	4.20	41.38	8,489.0	230.0	202.7	-217.1	0.00	0.00	0.00
8,600.0	4.20	41.38	8,588.7	235.5	207.5	-222.3	0.00	0.00	0.00
8,700.0	4.20	41.38	8,688.4	241.0	212.4	-227.5	0.00	0.00	0.00
8,800.0	4.20	41.38	8,788.2	246.5	217.2	-232.7	0.00	0.00	0.00
8,900.0	4.20	41.38	8,887.9	252.0	222.0	-237.9	0.00	0.00	0.00
9,000.0	4.20	41.38	8,987.6	257.5	226.9	-243.1	0.00	0.00	0.00
9,100.0	4.20	41.38	9,087.3	263.0	231.7	-248.2	0.00	0.00	0.00
9,200.0	4.20	41.38	9,187.1	268.5	236.5	-253.4	0.00	0.00	0.00
9,300.0	4.20	41.38	9,286.8	273.9	241.4	-258.6	0.00	0.00	0.00
9,409.9	4.20	41.38	9,396.4	280.0	246.7	-264.3	0.00	0.00	0.00
9,450.0	2.92	107.24	9,436.5	280.8	248.6	-265.0	10.00	-3.18	164.14
9,500.0	6.50	154.51	9,486.3	277.8	251.1	-261.9	10.00	7.16	94.55
9,550.0	11.22	165.60	9,535.7	270.6	253.5	-254.5	10.00	9.44	22.18
9,600.0	16.11	170.10	9,584.3	259.0	255.9	-242.8	10.00	9.78	9.00
9,650.0	21.05	172.54	9,631.6	243.3	258.3	-226.9	10.00	9.88	4.87
9,700.0	26.01	174.08	9,677.5	223.4	260.6	-207.0	10.00	9.92	3.08
9,750.0	30.99	175.16	9,721.4	199.7	262.8	-183.2	10.00	9.95	2.15
9,800.0	35.97	175.96	9,763.1	172.2	264.9	-155.6	10.00	9.96	1.61
9,850.0	40.95	176.59	9,802.2	141.2	266.9	-124.5	10.00	9.97	1.26
9,900.0	45.94	177.11	9,838.5	106.9	268.8	-90.2	10.00	9.97	1.03
9,950.0	50.93	177.54	9,871.7	69.5	270.5	-52.8	10.00	9.98	0.87
10,000.0	55.92	177.92	9,901.5	29.4	272.1	-12.6	10.00	9.98	0.76



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	60.91	178.26	9,927.6	-13.2	273.5	29.9	10.00	9.98	0.67
10,067.1	62.62	178.36	9,935.7	-28.3	274.0	45.0	10.00	9.98	0.63
FTP (RD 8 Fed #8H)									
10,100.0	65.90	178.56	9,950.0	-57.8	274.8	74.6	10.00	9.99	0.60
10,150.0	70.90	178.84	9,968.4	-104.3	275.8	121.0	10.00	9.99	0.56
10,200.0	75.89	179.11	9,982.7	-152.2	276.7	168.9	10.00	9.99	0.53
10,250.0	80.89	179.36	9,992.8	-201.2	277.3	217.8	10.00	9.99	0.51
10,300.0	85.88	179.61	9,998.5	-250.8	277.8	267.4	10.00	9.99	0.49
10,341.3	90.00	179.81	10,000.0	-292.0	278.0	308.5	10.00	9.99	0.49
10,400.0	90.00	179.81	10,000.0	-350.8	278.2	367.2	0.00	0.00	0.00
10,500.0	90.00	179.81	10,000.0	-450.8	278.5	467.0	0.00	0.00	0.00
10,600.0	90.00	179.81	10,000.0	-550.8	278.9	566.8	0.00	0.00	0.00
10,700.0	90.00	179.81	10,000.0	-650.8	279.2	666.7	0.00	0.00	0.00
10,800.0	90.00	179.81	10,000.0	-750.8	279.5	766.5	0.00	0.00	0.00
10,900.0	90.00	179.81	10,000.0	-850.8	279.9	866.3	0.00	0.00	0.00
11,000.0	90.00	179.81	10,000.0	-950.8	280.2	966.2	0.00	0.00	0.00
11,100.0	90.00	179.81	10,000.0	-1,050.8	280.5	1,066.0	0.00	0.00	0.00
11,200.0	90.00	179.81	10,000.0	-1,150.8	280.9	1,165.8	0.00	0.00	0.00
11,300.0	90.00	179.81	10,000.0	-1,250.8	281.2	1,265.7	0.00	0.00	0.00
11,400.0	90.00	179.81	10,000.0	-1,350.8	281.5	1,365.5	0.00	0.00	0.00
11,500.0	90.00	179.81	10,000.0	-1,450.8	281.9	1,465.3	0.00	0.00	0.00
11,600.0	90.00	179.81	10,000.0	-1,550.8	282.2	1,565.2	0.00	0.00	0.00
11,700.0	90.00	179.81	10,000.0	-1,650.8	282.6	1,665.0	0.00	0.00	0.00
11,800.0	90.00	179.81	10,000.0	-1,750.8	282.9	1,764.8	0.00	0.00	0.00
11,900.0	90.00	179.81	10,000.0	-1,850.8	283.2	1,864.7	0.00	0.00	0.00
12,000.0	90.00	179.81	10,000.0	-1,950.8	283.6	1,964.5	0.00	0.00	0.00
12,100.0	90.00	179.81	10,000.0	-2,050.8	283.9	2,064.3	0.00	0.00	0.00
12,200.0	90.00	179.81	10,000.0	-2,150.8	284.2	2,164.2	0.00	0.00	0.00
12,300.0	90.00	179.81	10,000.0	-2,250.8	284.6	2,264.0	0.00	0.00	0.00
12,400.0	90.00	179.81	10,000.0	-2,350.8	284.9	2,363.8	0.00	0.00	0.00
12,500.0	90.00	179.81	10,000.0	-2,450.8	285.2	2,463.6	0.00	0.00	0.00
12,600.0	90.00	179.81	10,000.0	-2,550.8	285.6	2,563.5	0.00	0.00	0.00
12,700.0	90.00	179.81	10,000.0	-2,650.8	285.9	2,663.3	0.00	0.00	0.00
12,800.0	90.00	179.81	10,000.0	-2,750.8	286.2	2,763.1	0.00	0.00	0.00
12,900.0	90.00	179.81	10,000.0	-2,850.8	286.6	2,863.0	0.00	0.00	0.00
13,000.0	90.00	179.81	10,000.0	-2,950.8	286.9	2,962.8	0.00	0.00	0.00
13,100.0	90.00	179.81	10,000.0	-3,050.8	287.3	3,062.6	0.00	0.00	0.00
13,200.0	90.00	179.81	10,000.0	-3,150.8	287.6	3,162.5	0.00	0.00	0.00
13,300.0	90.00	179.81	10,000.0	-3,250.8	287.9	3,262.3	0.00	0.00	0.00
13,400.0	90.00	179.81	10,000.0	-3,350.8	288.3	3,362.1	0.00	0.00	0.00
13,500.0	90.00	179.81	10,000.0	-3,450.8	288.6	3,462.0	0.00	0.00	0.00
13,600.0	90.00	179.81	10,000.0	-3,550.8	288.9	3,561.8	0.00	0.00	0.00
13,700.0	90.00	179.81	10,000.0	-3,650.8	289.3	3,661.6	0.00	0.00	0.00
13,800.0	90.00	179.81	10,000.0	-3,750.8	289.6	3,761.5	0.00	0.00	0.00
13,900.0	90.00	179.81	10,000.0	-3,850.8	289.9	3,861.3	0.00	0.00	0.00
14,000.0	90.00	179.81	10,000.0	-3,950.8	290.3	3,961.1	0.00	0.00	0.00
14,100.0	90.00	179.81	10,000.0	-4,050.8	290.6	4,060.9	0.00	0.00	0.00
14,200.0	90.00	179.81	10,000.0	-4,150.7	290.9	4,160.8	0.00	0.00	0.00
14,300.0	90.00	179.81	10,000.0	-4,250.7	291.3	4,260.6	0.00	0.00	0.00
14,400.0	90.00	179.81	10,000.0	-4,350.7	291.6	4,360.4	0.00	0.00	0.00
14,500.0	90.00	179.81	10,000.0	-4,450.7	291.9	4,460.3	0.00	0.00	0.00
14,600.0	90.00	179.81	10,000.0	-4,550.7	292.3	4,560.1	0.00	0.00	0.00
14,700.0	90.00	179.81	10,000.0	-4,650.7	292.6	4,659.9	0.00	0.00	0.00



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14,713.3	90.00	179.81	10,000.0	-4,664.0	292.7	4,673.2	0.00	0.00	0.00
LTP (RD 8 Fed #8H)									
14,800.0	90.00	179.81	10,000.0	-4,750.7	293.0	4,759.8	0.00	0.00	0.00
14,813.3	90.00	179.81	10,000.0	-4,764.0	293.0	4,773.0	0.00	0.00	0.00
PBHL (RD 8 Fed #8H)									

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
LTP (RD 8 Fed #8H)	0.00	0.00	10,000.0	-4,664.0	292.0	382,627.00	663,463.00	32° 3' 3.091 N	103° 48' 20.650 W
- plan misses target center by 0.7usft at 14713.3usft MD (10000.0 TVD, -4664.0 N, 292.7 E)									
- Point									
PBHL (RD 8 Fed #8H)	0.00	0.00	10,000.0	-4,764.0	293.0	382,527.00	663,464.00	32° 3' 2.102 N	103° 48' 20.644 W
- plan hits target center									
- Point									
FTP (RD 8 Fed #8H)	0.00	0.00	10,000.0	4.0	277.0	387,295.00	663,448.00	32° 3' 49.288 N	103° 48' 20.559 W
- plan misses target center by 72.0usft at 10067.1usft MD (9935.7 TVD, -28.3 N, 274.0 E)									
- Point									