

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
ROSS DRAW 8 FED 4H

2. Name of Operator

Contact: STAN WAGNER

EOG RESOURCES INCORPORATED E-Mail: stan_wagner@eogresources.com

9. API Well No.
30-015-40565-00-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 330FNL 610FWL

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 recompleate 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 recompleation 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, Inc. requests an amendment to our approved APD to reflect a change in BHL and TD.

BHL is changing to 230' FSL & 1100' FWL, SWSW (M), Sec 8, T26S, R31E

The new TD is 13298' MD, 8430' TVD.

A new C-102, directional plan, NSL order, and drill plan are attached.

NM OIL CONSERVATION
ARTESIA DISTRICTAccepted for record
NMOCD-105

JUN 02 2014

RECEIVED

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

Electronic Submission #238808 verified by the BLM Well Information System

For EOG RESOURCES INCORPORATED, sent to the Carlsbad.

Committed to AFMSS for processing by CHRISTOPHER WALLS on 04/29/2014 (14CRW0248SE)

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 03/14/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 05/27/2014

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 ****

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax. (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax. (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

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

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 40565	² Pool Code 97860	³ Pool Name Jennings; Bone Spring, West
⁴ Property Code 38727	⁵ Property Name ROSS DRAW 8 FED	⁶ Well Number #4H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3278'

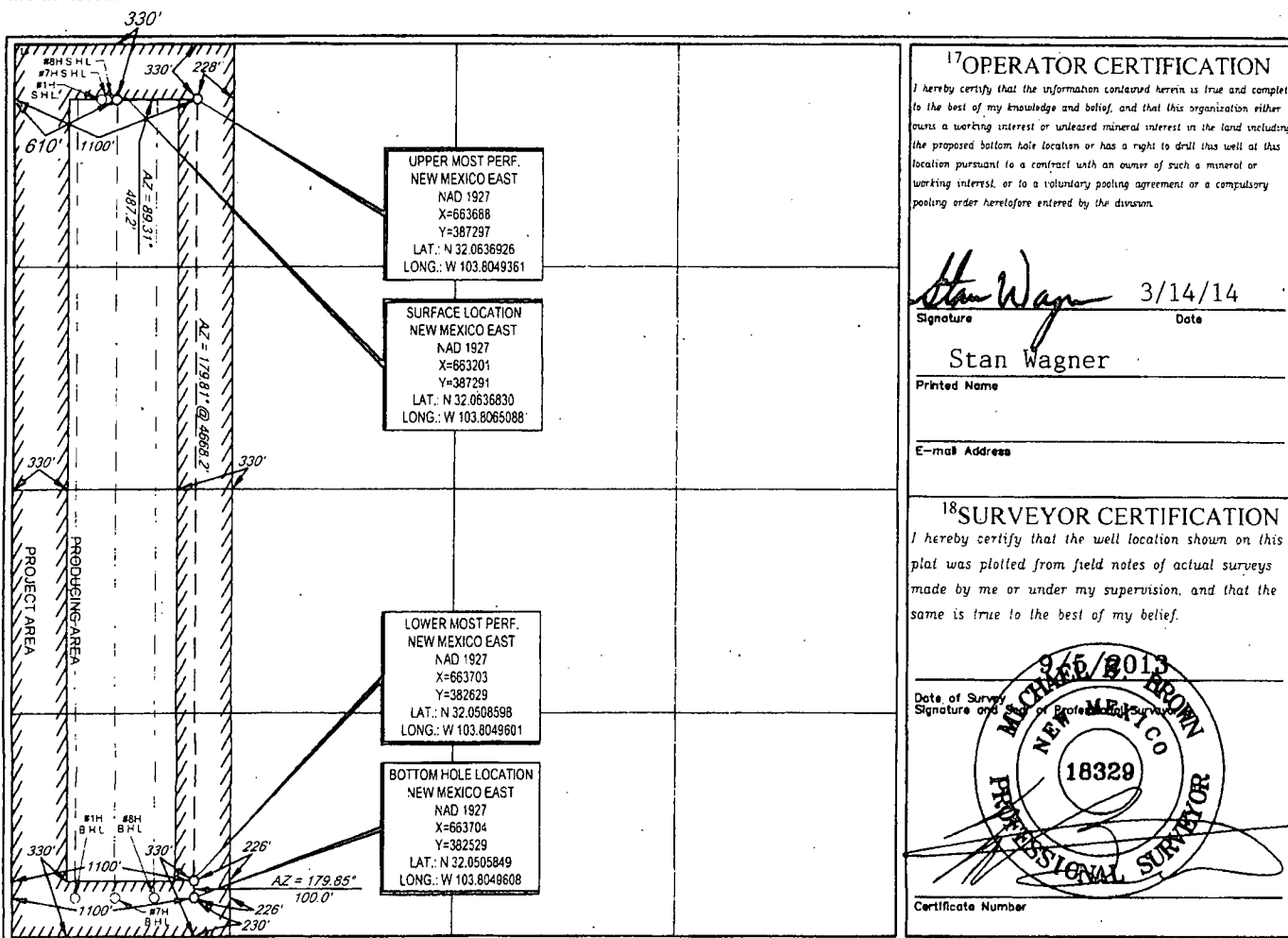
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	8	26-S	31-E	-	330'	NORTH	610'	WEST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	8	26-S	31-E	-	230'	SOUTH	1100'	WEST	EDDY

¹¹ Dedicated Acres 160	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 3/14/14
Signature Date

Stan Wagner
Printed Name

E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

9/25/2013
MICHAEL BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR
Date of Survey
Signature of Professional Surveyor
Certificate Number

EOG RESOURCES, INC.
ROSS DRAW 8 FED NO. 4H
REVISED 10/15/13

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,160'
Top of Salt	1,520'
Base of Salt	3,797'
Lamar	4,008'
Bell Canyon	4,032'
Cherry Canyon	4,952'
Brushy Canyon	6,197'
Bone Spring Lime	7,990'
TD	8,430'

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

Upper Permian Sands	0- 400'	Fresh Water
Brushy Canyon	6,197'	Oil
Bone Spring Lime	7,990'	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 1185' 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 - 1185'	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'-13,298'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
ROSS DRAW 8 FED NO. 4H
REVISED 10/15/13

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1185'	500	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'	600	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
13,298'	300	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')
	225	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
	1300	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:

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. 4H
REVISED 10/15/13

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.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1185'	Fresh Water Gel	8.6-8.8	28-34	N/c
1185' – 4,000'	Saturated Brine	10.0-10.2	28-34	N/c
4,000' – 7,981'	Fresh Water	8.4-8.6	28-34	N/c
7,981' – 13,298' 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) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

EOG RESOURCES, INC.
ROSS DRAW 8 FED NO. 4H
REVISED 10/15/13

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

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

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

The estimated bottom-hole temperature (BHT) at TD is 145 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3650 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:

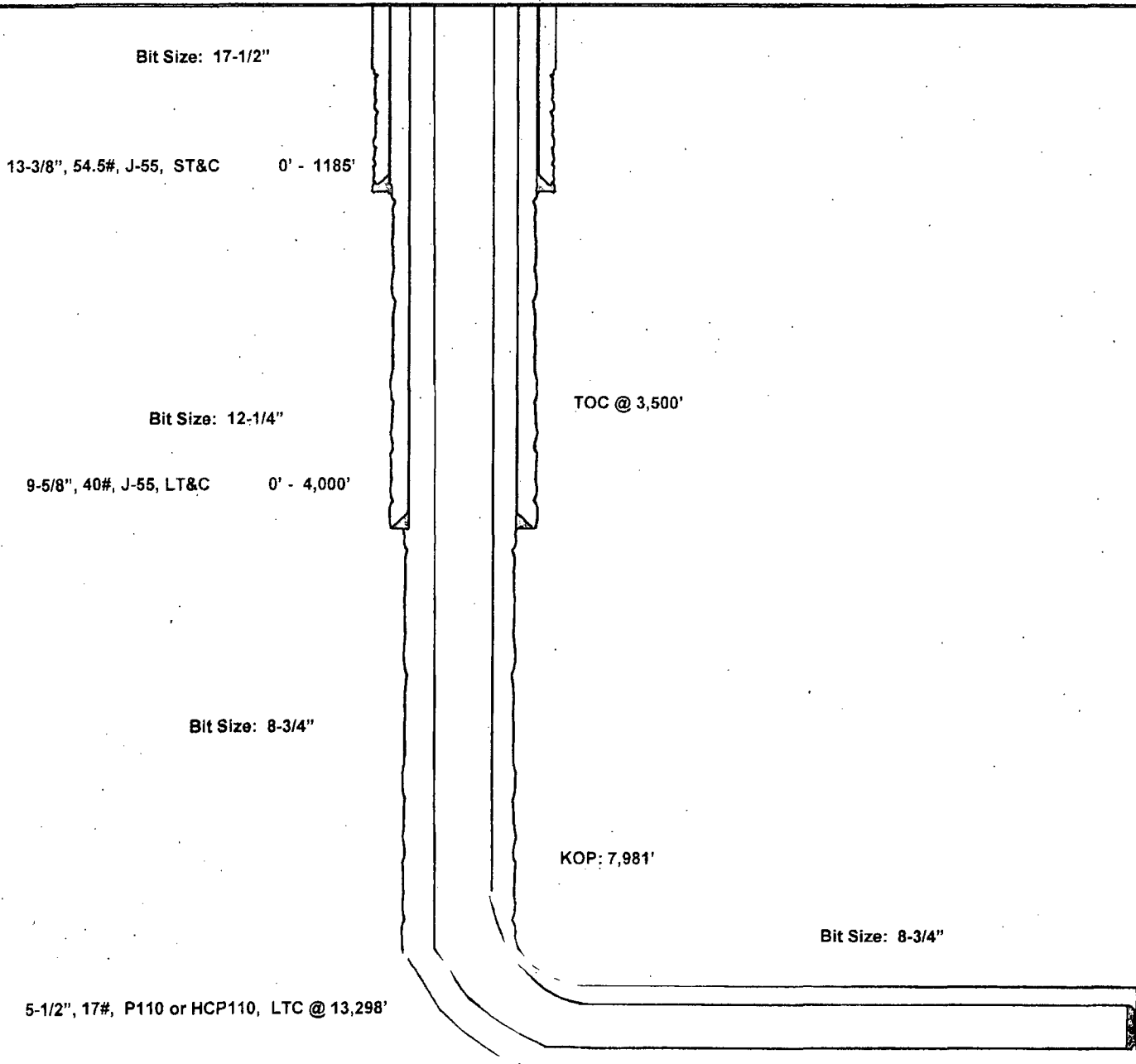
The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

Ross Draw 8 Fed #4H
Eddy County, New Mexico
Proposed Wellbore
Revised 10/15/13

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

API: 30-015-40565

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



Lateral:
13,298' MD, 8,430' TVD

BH Location: 230' FSL & 100' FWL
Section 8
T-26-S, R-31-E

EOG Resources

Project: Eddy County, NM (NAD27 NME)
Site: Ross Draw 8 Fed
Well: Ross Draw 8 Fed 4H
Wellbore: Wellbore #1
Plan: Plan#2 101613
Rig: Cactus Rig No. 123

PROJECT DETAILS: Eddy County, NM (NAD27 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
 Location North: Grid

Azimuths to Grid North
 True North: -0.28°
 Magnetic North: 7.12°
 Magnetic Field
 Strength: 48261.4snT
 Dip Angle: 59.94°
 Date: 10/16/2013
 Model: IGRF2010_14

PHOENIX
 TECHNOLOGY SERVICES

WELL DETAILS: Ross Draw 8 Fed 4H

Ground Level: 3278.40
 Northing: 387291.00 Easting: 663201.00 32° 3' 49.25886 N 103° 48' 23.42982 W

ANNOTATIONS

TVD	MD	Annotation
2132.30	2132.30	Start Build 2.50
2371.86	2372.30	Start 5106.66 hold at 2372.30 MD
7450.55	7478.96	Start Drop -2.00
7750.00	7778.96	Start 202.54 hold at 7778.96 MD
7952.54	7981.50	Start Build 12.00
8430.00	8731.50	Start 4566.86 hold at 8731.50 MD
8430.00	13298.36	TD at 13298.36

FORMATION TOP DETAILS

No formation data is available.

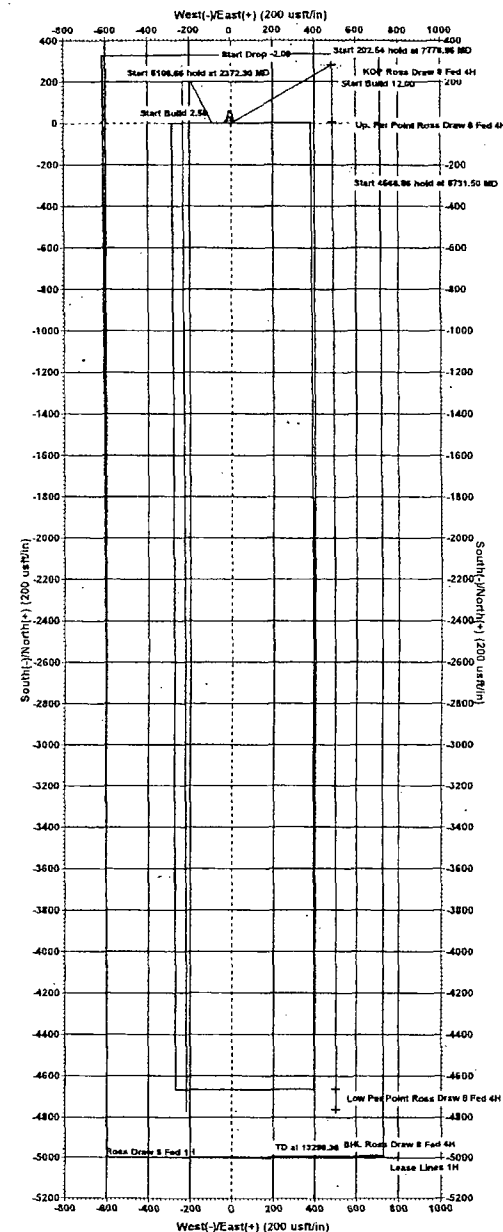
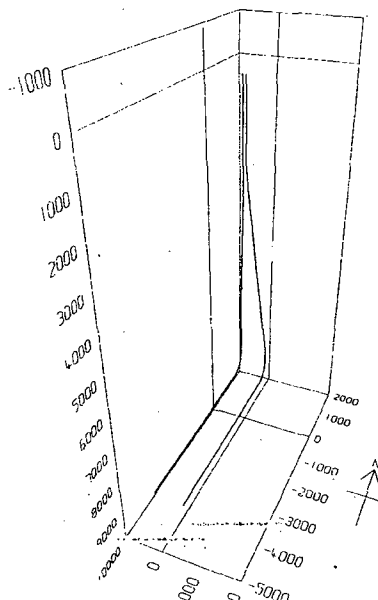
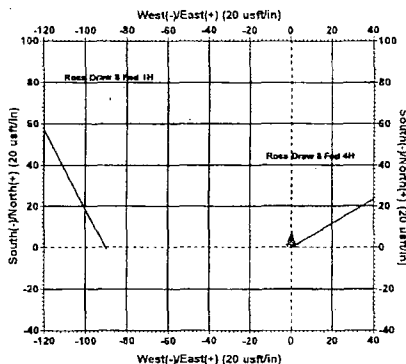
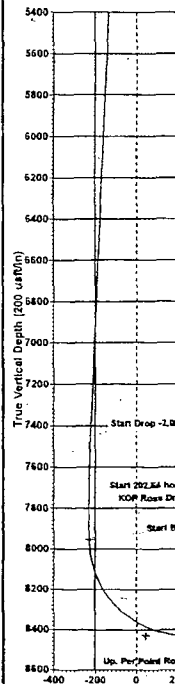
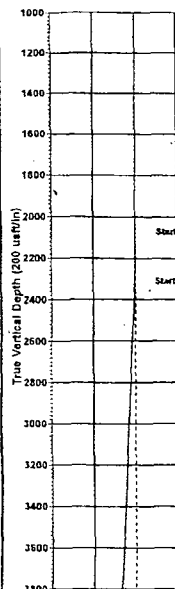
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
KOP Ross Draw 8 Fed 4H	7952.54	282.30	486.00	387291.00	663201.00	Point
BHL Ross Draw 8 Fed 4H	8430.00	-4762.00	503.00	382529.00	663704.00	Point
Low Per Point Ross Draw 8 Fed 4H	8430.00	-4662.00	502.00	382529.00	663703.00	Point
Up. Per Point Ross Draw 8 Fed 4H	8430.00	6.00	487.00	387297.00	663688.00	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2132.30	0.00	0.00	2132.30	0.00	0.00	0.00	0.00	0.00
2372.30	6.00	59.85	2371.86	5.31	10.86	2.50	59.85	-5.13
7478.96	6.00	59.85	7450.55	274.42	472.43	0.00	0.00	-223.27
7778.96	0.00	0.00	7750.00	282.30	486.00	2.00	180.00	-229.69
7981.50	0.00	0.00	7952.54	282.30	486.00	0.90	0.00	-229.69
8731.50	90.00	179.81	8430.00	-195.16	487.61	12.00	179.81	245.30
13298.36	90.00	179.81	8430.00	-4762.00	503.00	0.00	0.00	4788.49

BHL Ross Draw 8 Fed 4H





EOG Resources

Eddy County, NM (NAD27 NME)

Ross Draw 8 Fed

Ross Draw 8 Fed 4H

Wellbore #1

Plan: Plan#2 101613

Standard Survey Report

16 October, 2013



Survey Report

Company: EOG Resources
Project: Eddy County, NM (NAD27 NME)
Site: Ross Draw 8 Fed
Well: Ross Draw 8 Fed 4H
Wellbore: Wellbore #1
Design: Plan#2 101613

Local Co-ordinate Reference: Well Ross Draw 8 Fed 4H
TVD Reference: WELL @ 3308.40usft (Original Well Elev)
MD Reference: WELL @ 3308.40usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR.DB

Project	Eddy County, NM (NAD27 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:	387,290.50 usft
From:	Map	Easting:	663,109.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 49.25933 N
		Longitude:	103° 48' 24.49197 W
		Grid Convergence:	0.28 °

Well	Ross Draw 8 Fed 4H		
Well Position	+N/-S	0.00 usft	Northing: 387,291.00 usft
	+E/-W	0.00 usft	Easting: 663,201.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 3' 49.25986 N
		Longitude:	103° 48' 23.42982 W
		Ground Level:	3,278.40 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010_14	10/16/13	7.40
			Dip Angle (°)
			59.94
			Field Strength (nT)
			48,261

Design	Plan#2 101613		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			173.97

Survey Tool Program	Date	10/16/13
From (usft)	To (usft)	Survey (Wellbore)
0.00	13,298.32	Plan#2 101613 (Wellbore #1)
	Tool Name	Description
	MWD	MWD - Standard

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00



Survey Report

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Well: Ross Draw 8 Fed 4H
Wellbore: Wellbore #1
Design: Plan#2 101613

Local Co-ordinate Reference: Well Ross Draw 8 Fed 4H
TVD Reference: WELL @ 3308.40usft (Original Well Elev)
MD Reference: WELL @ 3308.40usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Correction (usft)	Depth Rate (°/100usft)	Depth Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,132.30	0.00	0.00	2,132.30	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.50									
2,200.00	1.69	59.85	2,199.99	0.50	0.86	-0.41	2.50	2.50	0.00
2,300.00	4.19	59.85	2,299.85	3.08	5.30	-2.51	2.50	2.50	0.00
2,372.30	6.00	59.85	2,371.86	6.31	10.86	-5.13	2.50	2.50	0.00
Start 5106.66 hold at 2372.30 MD									
2,400.00	6.00	59.85	2,399.41	7.76	13.36	-6.31	0.00	0.00	0.00
2,500.00	6.00	59.85	2,498.86	13.01	22.40	-10.59	0.00	0.00	0.00
2,600.00	6.00	59.85	2,598.31	18.26	31.44	-14.86	0.00	0.00	0.00
2,700.00	6.00	59.85	2,697.77	23.51	40.48	-19.13	0.00	0.00	0.00
2,800.00	6.00	59.85	2,797.22	28.76	49.51	-23.40	0.00	0.00	0.00
2,900.00	6.00	59.85	2,896.67	34.01	58.55	-27.67	0.00	0.00	0.00
3,000.00	6.00	59.85	2,996.12	39.26	67.59	-31.94	0.00	0.00	0.00
3,100.00	6.00	59.85	3,095.58	44.51	76.63	-36.22	0.00	0.00	0.00
3,200.00	6.00	59.85	3,195.03	49.76	85.67	-40.49	0.00	0.00	0.00
3,300.00	6.00	59.85	3,294.48	55.01	94.71	-44.76	0.00	0.00	0.00
3,400.00	6.00	59.85	3,393.93	60.26	103.75	-49.03	0.00	0.00	0.00
3,500.00	6.00	59.85	3,493.38	65.51	112.79	-53.30	0.00	0.00	0.00
3,600.00	6.00	59.85	3,592.84	70.76	121.82	-57.57	0.00	0.00	0.00
3,700.00	6.00	59.85	3,692.29	76.01	130.86	-61.85	0.00	0.00	0.00
3,800.00	6.00	59.85	3,791.74	81.26	139.90	-66.12	0.00	0.00	0.00
3,900.00	6.00	59.85	3,891.19	86.51	148.94	-70.39	0.00	0.00	0.00
4,000.00	6.00	59.85	3,990.64	91.76	157.98	-74.66	0.00	0.00	0.00
4,100.00	6.00	59.85	4,090.10	97.01	167.02	-78.93	0.00	0.00	0.00
4,200.00	6.00	59.85	4,189.55	102.26	176.06	-83.21	0.00	0.00	0.00
4,300.00	6.00	59.85	4,289.00	107.51	185.09	-87.48	0.00	0.00	0.00
4,400.00	6.00	59.85	4,388.45	112.77	194.13	-91.75	0.00	0.00	0.00
4,500.00	6.00	59.85	4,487.91	118.02	203.17	-96.02	0.00	0.00	0.00
4,600.00	6.00	59.85	4,587.36	123.27	212.21	-100.29	0.00	0.00	0.00
4,700.00	6.00	59.85	4,686.81	128.52	221.25	-104.56	0.00	0.00	0.00
4,800.00	6.00	59.85	4,786.26	133.77	230.29	-108.84	0.00	0.00	0.00
4,900.00	6.00	59.85	4,885.71	139.02	239.33	-113.11	0.00	0.00	0.00



Survey Report

Company: EOG Resources
Project: Eddy County, NM (NAD27 NME)
Site: Ross Draw 8 Fed
Well: Ross Draw 8 Fed 4H
Wellbore: Wellbore #1
Design: Plan#2 101613

Local Coordinates Reference: Well Ross Draw 8 Fed 4H
TYD Reference: WELL @ 3308.40usft (Original Well Elev)
MD Reference: WELL @ 3308.40usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

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)
5,000.00	6.00	59.85	4,985.17	144.27	248.37	-117.38	0.00	0.00	0.00
5,100.00	6.00	59.85	5,084.62	149.52	257.40	-121.65	0.00	0.00	0.00
5,200.00	6.00	59.85	5,184.07	154.77	266.44	-125.92	0.00	0.00	0.00
5,300.00	6.00	59.85	5,283.52	160.02	275.48	-130.19	0.00	0.00	0.00
5,400.00	6.00	59.85	5,382.98	165.27	284.52	-134.47	0.00	0.00	0.00
5,500.00	6.00	59.85	5,482.43	170.52	293.56	-138.74	0.00	0.00	0.00
5,600.00	6.00	59.85	5,581.88	175.77	302.60	-143.01	0.00	0.00	0.00
5,700.00	6.00	59.85	5,681.33	181.02	311.64	-147.28	0.00	0.00	0.00
5,800.00	6.00	59.85	5,780.78	186.27	320.67	-151.55	0.00	0.00	0.00
5,900.00	6.00	59.85	5,880.24	191.52	329.71	-155.82	0.00	0.00	0.00
6,000.00	6.00	59.85	5,979.69	196.77	338.75	-160.10	0.00	0.00	0.00
6,100.00	6.00	59.85	6,079.14	202.02	347.79	-164.37	0.00	0.00	0.00
6,200.00	6.00	59.85	6,178.59	207.27	356.83	-168.64	0.00	0.00	0.00
6,300.00	6.00	59.85	6,278.05	212.52	365.87	-172.91	0.00	0.00	0.00
6,400.00	6.00	59.85	6,377.50	217.77	374.91	-177.18	0.00	0.00	0.00
6,500.00	6.00	59.85	6,476.95	223.02	383.94	-181.46	0.00	0.00	0.00
6,600.00	6.00	59.85	6,576.40	228.27	392.98	-185.73	0.00	0.00	0.00
6,700.00	6.00	59.85	6,675.85	233.52	402.02	-190.00	0.00	0.00	0.00
6,800.00	6.00	59.85	6,775.31	238.77	411.06	-194.27	0.00	0.00	0.00
6,900.00	6.00	59.85	6,874.76	244.02	420.10	-198.54	0.00	0.00	0.00
7,000.00	6.00	59.85	6,974.21	249.27	429.14	-202.81	0.00	0.00	0.00
7,100.00	6.00	59.85	7,073.66	254.52	438.18	-207.09	0.00	0.00	0.00
7,200.00	6.00	59.85	7,173.12	259.77	447.22	-211.36	0.00	0.00	0.00
7,300.00	6.00	59.85	7,272.57	265.02	456.25	-215.63	0.00	0.00	0.00
7,400.00	6.00	59.85	7,372.02	270.27	465.29	-219.90	0.00	0.00	0.00
7,478.96	6.00	59.85	7,450.55	274.42	472.43	-223.27	0.00	0.00	0.00
Start Drop -2.00									
7,500.00	5.58	59.85	7,471.48	275.48	474.26	-224.14	2.00	-2.00	0.00
7,600.00	3.58	59.85	7,571.16	279.49	481.17	-227.40	2.00	-2.00	0.00
7,700.00	1.58	59.85	7,671.05	281.75	485.06	-229.24	2.00	-2.00	0.00
7,778.96	0.00	0.00	7,750.00	282.30	486.00	-229.69	2.00	-2.00	0.00
Start 202.54 hold at 7778.96 MD									
7,800.00	0.00	0.00	7,771.04	282.30	486.00	-229.69	0.00	0.00	0.00
7,900.00	0.00	0.00	7,871.04	282.30	486.00	-229.69	0.00	0.00	0.00
7,981.50	0.00	0.00	7,952.54	282.30	486.00	-229.69	0.00	0.00	0.00
Start Build 12.00									
8,000.00	2.22	179.81	7,971.03	281.94	486.00	-229.33	12.00	12.00	0.00
8,100.00	14.22	179.81	8,069.83	267.67	486.05	-215.13	12.00	12.00	0.00
8,200.00	26.22	179.81	8,163.49	233.17	486.17	-180.81	12.00	12.00	0.00
8,300.00	38.22	179.81	8,247.94	179.95	486.34	-127.87	12.00	12.00	0.00
8,400.00	50.22	179.81	8,319.47	110.34	486.58	-58.61	12.00	12.00	0.00
8,500.00	62.22	179.81	8,374.97	27.37	486.86	23.92	12.00	12.00	0.00
8,600.00	74.22	179.81	8,412.01	-65.32	487.17	116.14	12.00	12.00	0.00
8,700.00	86.22	179.81	8,428.96	-163.69	487.50	213.99	12.00	12.00	0.00



Survey Report

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Site: Ross Draw 8 Fed
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Wellbore: Wellbore #1
Design: Plan#2 101613

Local Co-ordinate Reference: Well Ross Draw 8 Fed 4H
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MD Reference: WELL @ 3308.40usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N-S (usft)	E-W (usft)	Vertical St. Dev (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,731.50	90.00	179.81	8,430.00	-195.16	487.61	245.30	12.00	12.00	0.00
Start 4566.86 hold at 8731.50 MD									
8,800.00	90.00	179.81	8,430.00	-263.67	487.84	313.45	0.00	0.00	0.00
8,900.00	90.00	179.81	8,430.00	-363.66	488.18	412.93	0.00	0.00	0.00
9,000.00	90.00	179.81	8,430.00	-463.66	488.51	512.41	0.00	0.00	0.00
9,100.00	90.00	179.81	8,430.00	-563.66	488.85	611.90	0.00	0.00	0.00
9,200.00	90.00	179.81	8,430.00	-663.66	489.19	711.38	0.00	0.00	0.00
9,300.00	90.00	179.81	8,430.00	-763.66	489.53	810.86	0.00	0.00	0.00
9,400.00	90.00	179.81	8,430.00	-863.66	489.86	910.34	0.00	0.00	0.00
9,500.00	90.00	179.81	8,430.00	-963.66	490.20	1,009.82	0.00	0.00	0.00
9,600.00	90.00	179.81	8,430.00	-1,063.66	490.54	1,109.30	0.00	0.00	0.00
9,700.00	90.00	179.81	8,430.00	-1,163.66	490.87	1,208.79	0.00	0.00	0.00
9,800.00	90.00	179.81	8,430.00	-1,263.66	491.21	1,308.27	0.00	0.00	0.00
9,900.00	90.00	179.81	8,430.00	-1,363.66	491.55	1,407.75	0.00	0.00	0.00
10,000.00	90.00	179.81	8,430.00	-1,463.66	491.88	1,507.23	0.00	0.00	0.00
10,100.00	90.00	179.81	8,430.00	-1,563.66	492.22	1,606.71	0.00	0.00	0.00
10,200.00	90.00	179.81	8,430.00	-1,663.66	492.56	1,706.19	0.00	0.00	0.00
10,300.00	90.00	179.81	8,430.00	-1,763.66	492.90	1,805.68	0.00	0.00	0.00
10,400.00	90.00	179.81	8,430.00	-1,863.66	493.23	1,905.16	0.00	0.00	0.00
10,500.00	90.00	179.81	8,430.00	-1,963.66	493.57	2,004.64	0.00	0.00	0.00
10,600.00	90.00	179.81	8,430.00	-2,063.66	493.91	2,104.12	0.00	0.00	0.00
10,700.00	90.00	179.81	8,430.00	-2,163.65	494.24	2,203.60	0.00	0.00	0.00
10,800.00	90.00	179.81	8,430.00	-2,263.65	494.58	2,303.08	0.00	0.00	0.00
10,900.00	90.00	179.81	8,430.00	-2,363.65	494.92	2,402.56	0.00	0.00	0.00
11,000.00	90.00	179.81	8,430.00	-2,463.65	495.25	2,502.05	0.00	0.00	0.00
11,100.00	90.00	179.81	8,430.00	-2,563.65	495.59	2,601.53	0.00	0.00	0.00
11,200.00	90.00	179.81	8,430.00	-2,663.65	495.93	2,701.01	0.00	0.00	0.00
11,300.00	90.00	179.81	8,430.00	-2,763.65	496.27	2,800.49	0.00	0.00	0.00
11,400.00	90.00	179.81	8,430.00	-2,863.65	496.60	2,899.97	0.00	0.00	0.00
11,500.00	90.00	179.81	8,430.00	-2,963.65	496.94	2,999.45	0.00	0.00	0.00
11,600.00	90.00	179.81	8,430.00	-3,063.65	497.28	3,098.94	0.00	0.00	0.00
11,700.00	90.00	179.81	8,430.00	-3,163.65	497.61	3,198.42	0.00	0.00	0.00
11,800.00	90.00	179.81	8,430.00	-3,263.65	497.95	3,297.90	0.00	0.00	0.00
11,900.00	90.00	179.81	8,430.00	-3,363.65	498.29	3,397.38	0.00	0.00	0.00
12,000.00	90.00	179.81	8,430.00	-3,463.65	498.62	3,496.86	0.00	0.00	0.00
12,100.00	90.00	179.81	8,430.00	-3,563.65	498.96	3,596.34	0.00	0.00	0.00
12,200.00	90.00	179.81	8,430.00	-3,663.65	499.30	3,695.83	0.00	0.00	0.00
12,300.00	90.00	179.81	8,430.00	-3,763.65	499.64	3,795.31	0.00	0.00	0.00
12,400.00	90.00	179.81	8,430.00	-3,863.64	499.97	3,894.79	0.00	0.00	0.00
12,500.00	90.00	179.81	8,430.00	-3,963.64	500.31	3,994.27	0.00	0.00	0.00
12,600.00	90.00	179.81	8,430.00	-4,063.64	500.65	4,093.75	0.00	0.00	0.00
12,700.00	90.00	179.81	8,430.00	-4,163.64	500.98	4,193.23	0.00	0.00	0.00
12,800.00	90.00	179.81	8,430.00	-4,263.64	501.32	4,292.72	0.00	0.00	0.00



Survey Report

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Site: Ross Draw 8 Fed
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Wellbore: Wellbore #1
Design: Plan#2 101613

Local Coordinates Reference: Well Ross Draw 8 Fed 4H
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MD Reference: WELL @ 3308.40usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

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)
12,900.00	90.00	179.81	8,430.00	-4,363.64	501.66	4,392.20	0.00	0.00	0.00
13,000.00	90.00	179.81	8,430.00	-4,463.64	501.99	4,491.68	0.00	0.00	0.00
13,100.00	90.00	179.81	8,430.00	-4,563.64	502.33	4,591.16	0.00	0.00	0.00
13,200.00	90.00	179.81	8,430.00	-4,663.64	502.67	4,690.64	0.00	0.00	0.00
13,298.36	90.00	179.81	8,430.00	-4,762.00	503.00	4,788.49	0.00	0.00	0.00

TD at 13298.36

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOP Ross Draw 8 Fed 4	0.00	0.01	7,952.54	282.30	486.00	387,573.30	683,687.00	32° 3' 52.03005 N	103° 48' 17.76612 W
- plan hits target center									
- Point									
Up. Per Point Ross Draw	0.00	0.00	8,430.00	6.00	487.00	387,297.00	663,686.00	32° 3' 49.29568 N	103° 48' 17.77022 W
- plan misses target center by 40.65usft at 8540.34usft MD (8392.24 TVD, -9.07 N, 486.98 E)									
- Point									
Low Per Point Ross Draw	0.00	0.00	8,430.00	-4,662.00	502.00	382,629.00	663,703.00	32° 3' 3.09937 N	103° 48' 17.86143 W
- plan misses target center by 0.66usft at 13198.36usft MD (8430.00 TVD, -4662.00 N, 502.66 E)									
- Point									
BHL Ross Draw 8 Fed 4	0.00	0.01	8,430.00	-4,762.00	503.00	382,529.00	663,704.00	32° 3' 2.10970 N	103° 48' 17.85550 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Comment
2132	2132	0	0	Start Build 2.50
2372	2372	6	11	Start 5106.66 hold at 2372.30 MD
7479	7451	274	472	Start Drop -2.00
7779	7750	282	486	Start 202.54 hold at 7778.96 MD
7981	7953	282	486	Start Build 12.00
8731	8430	-195	488	Start 4566.86 hold at 8731.50 MD
13,298	8430	-4762	503	TD at 13298.36

Checked By: _____ Approved By: _____ Date: _____

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



March 11, 2014

EOG Resources Inc
Attn: Mr. Michael Feldewert

ADMINISTRATIVE NON-STANDARD LOCATION ORDER

Administrative Order NSL-7040
Administrative Application Reference No. pMAM1404337272

EOG Resources INC
OGRID 7377
Ross Draw 8 Federal Well No. 4H
API No. 30-015-40565

Proposed Location:

	<u>Footages</u>	<u>Unit</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	333 FNL & 613 FWL	D	8	26S	31E	Eddy
Penetration Point	330 FNL & 1100 FWL	D	8	26S	31E	Eddy
Terminus	230 FSL & 1100 FWL	M	8	26S	31E	Eddy

Proposed Project Area:

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
W/2 W/2 of Section 8	160	Jennings; Bone Spring, West	97860

Reference is made to your application received on February 11, 2014.

You have requested to drill this horizontal well at an unorthodox oil well location described above in the referenced pool or formation. This location is governed by statewide Rule 19.15.15.9.A NMAC, which provides for 40-acre units, with wells located at least 330 feet from a unit outer boundary, and Rule 19.15.16.14.B (2) NMAC concerning directional wells in designated project areas. This location is unorthodox because portions of the proposed completed interval are closer to outside boundaries of the proposed project area than any location that would be a standard location under the applicable pool rules.

March 11, 2014
Page 2

Your application has been duly filed under the provisions of Division Rules 19.15.15.13 NMAC and 19.15.4.12.A (2) NMAC.

It is our understanding that you are seeking this location for engineering reasons, in order to maximize production of hydrocarbons underlying this project area and prevent waste.

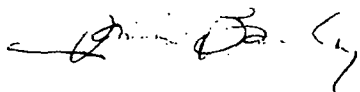
It is also understood that you have given due notice of this application to all operators or owners who are "affected persons," as defined in Rule 19.15.4.12.A (2) NMAC, in all adjoining units towards which the proposed location encroaches.

Pursuant to the authority conferred by Division Rule 19.15.15.13 (B) NMAC, the above-described unorthodox location is hereby approved.

This approval is subject to your being in compliance with all other applicable Division rules, including, but not limited to Division Rule 19.15.5.9 NMAC.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,



Jami Bailey
Director

JB/mam

cc: New Mexico Oil Conservation Division – Artesia
Bureau of Land Management – Carlsbad