

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010**OCT 12 2012** SUNDRY NOTICES AND REPORTS ON WELLS **OCD Hobbs**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***RECEIVED****SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM108503
2. Name of Operator EOG Resources Inc.		6. If Indian, Allottee or Tribe Name
3a. Address P.O. Box 2267 Midland, Texas 79702	3b. Phone No. (include area code) 432-686-3689	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 50 FNL & 2130 FWL, NENW Sec 14, T25S, R33E		8. Well Name and No. Vaca 14 Fed 6H
		9. API Well No. 30-025-39943
		10. Field and Pool, or Exploratory Area Red Hills
		11. County or Parish, State Lea 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	
	☐ 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 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 final site is ready for final inspection.)

EOG Resources requests an amendment to our approved APD to reflect a change in casing as follows:

From 5-1/2", 20#, P110, NSCC to 5-1/2", 17#, P110, LTC.

This well will be drilled as a non-pilot hole. (Originally permitted as a pilot hole.)

A revised directional plan to extend TD 100' past 330' setback line is attached.

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

Name (Printed/Typed)

Stan Wagner

Title Regulatory Analyst

Signature

Date 9/4/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

APPROVED

SEP 4 2012

WESLEY W. INGRAM
PETROLEUM ENGINEER

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

NOV 28 2012 *Chm*

EOG Resources

Lea County, NM (Nad27)

Vaca 14 Federal

Vaca 14 Fed 6H

Wellbore #1

Plan: Plan#1 082712

EOG Resources

28 August, 2012



PHOENIX
TECHNOLOGY SERVICES

OCT 12 2012
RECEIVED
11-20-2012

HOBBS OCD

Phoenix Technology Services

EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Vaca 14 Fed 6H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3396.40usft (Original Well Elev)
Site:	Vaca 14 Federal	MD Reference:	WELL @ 3396.40usft (Original Well Elev)
Well:	Vaca 14 Fed 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 082712	Database:	GCR DB v5000

Project		Lea County, NM (Nad27)	
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		Vaca 14 Federal			
Site Position:		Northing:		Latitude:	
From:	Map		414,652.60 usft		32° 8' 15.1344 N
Position Uncertainty:		Easting:		Longitude:	
	0.00 usft		744,233.20 usft		103° 32' 39.4859 W
		Slot Radius:		Grid Convergence:	
			13-3/16 "		0.42 °

Well:	Vaca 14 Fed 6H					
Well Position	+N-S	0.00 usft	Northing:	414,652.60 usft	Latitude:	32° 8' 15.1344 N
	+E-W	0.00 usft	Easting:	744,233.20 usft	Longitude:	103° 32' 39.4859 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,366.40 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	08/27/12	7.42	60.08	48,447

Design		Plan#1 082712		
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	181.37

Survey Tool Program		Date	08/28/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,280.31	Plan#1 082712 (Wellbore #1)	MWD	MWD - Standard	

Phoenix Technology Services

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Well:	Vaca 14 Fed 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 082712	Database:	GCR DB v5000

Planned Survey

MD (usft)	Inc (%)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	-3,396.40	0.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
100.00	0.00	0.00	-3,296.40	100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
200.00	0.00	0.00	-3,196.40	200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
300.00	0.00	0.00	-3,096.40	300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
400.00	0.00	0.00	-2,996.40	400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
500.00	0.00	0.00	-2,896.40	500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
600.00	0.00	0.00	-2,796.40	600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
700.00	0.00	0.00	-2,696.40	700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
800.00	0.00	0.00	-2,596.40	800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
900.00	0.00	0.00	-2,496.40	900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,000.00	0.00	0.00	-2,396.40	1,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,100.00	0.00	0.00	-2,296.40	1,100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,120.00	0.00	0.00	-2,276.40	1,120.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
Rustler										
1,200.00	0.00	0.00	-2,196.40	1,200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,300.00	0.00	0.00	-2,096.40	1,300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,400.00	0.00	0.00	-1,996.40	1,400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,500.00	0.00	0.00	-1,896.40	1,500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,600.00	0.00	0.00	-1,796.40	1,600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,700.00	0.00	0.00	-1,696.40	1,700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,800.00	0.00	0.00	-1,596.40	1,800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
1,900.00	0.00	0.00	-1,496.40	1,900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
2,000.00	0.00	0.00	-1,396.40	2,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
2,100.00	0.00	0.00	-1,296.40	2,100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
2,200.00	0.00	0.00	-1,196.40	2,200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
2,300.00	0.00	0.00	-1,096.40	2,300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
2,400.00	0.00	0.00	-996.40	2,400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20

Phoenix Technology Services

EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Vaca 14 Fed 6H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3396.40usft (Original Well Elev)
Site:	Vaca 14 Federal	MD Reference:	WELL @ 3396.40usft (Original Well Elev)
Well:	Vaca 14 Fed 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 082712	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
2,500.00	0.00	0.00	-896.40	2,500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
2,600.00	0.00	0.00	-796.40	2,600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
2,700.00	0.00	0.00	-696.40	2,700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
2,800.00	0.00	0.00	-596.40	2,800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
2,900.00	0.00	0.00	-496.40	2,900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,000.00	0.00	0.00	-396.40	3,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,100.00	0.00	0.00	-296.40	3,100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,200.00	0.00	0.00	-196.40	3,200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,300.00	0.00	0.00	-96.40	3,300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,400.00	0.00	0.00	3.60	3,400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,500.00	0.00	0.00	103.60	3,500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,600.00	0.00	0.00	203.60	3,600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,700.00	0.00	0.00	303.60	3,700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,800.00	0.00	0.00	403.60	3,800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
3,900.00	0.00	0.00	503.60	3,900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,000.00	0.00	0.00	603.60	4,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,100.00	0.00	0.00	703.60	4,100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,200.00	0.00	0.00	803.60	4,200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,300.00	0.00	0.00	903.60	4,300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,400.00	0.00	0.00	1,003.60	4,400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,500.00	0.00	0.00	1,103.60	4,500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,600.00	0.00	0.00	1,203.60	4,600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,700.00	0.00	0.00	1,303.60	4,700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
4,800.00	0.00	0.00	1,403.60	4,800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
Top Salt											
4,900.00	0.00	0.00	1,503.60	4,900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	
5,000.00	0.00	0.00	1,603.60	5,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20	

Phoenix Technology Services
EOG Resources



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 082712	Database:	GCR DB v5000

Planned Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)		
5,040.00	0.00	0.00	1,643.60	5,040.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
Base Salt												
5,070.00	0.00	0.00	1,673.60	5,070.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
Lamar												
5,100.00	0.00	0.00	1,703.60	5,100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
5,200.00	0.00	0.00	1,803.60	5,200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
5,300.00	0.00	0.00	1,903.60	5,300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
5,400.00	0.00	0.00	2,003.60	5,400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
5,500.00	0.00	0.00	2,103.60	5,500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
5,600.00	0.00	0.00	2,203.60	5,600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
5,700.00	0.00	0.00	2,303.60	5,700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
5,800.00	0.00	0.00	2,403.60	5,800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
5,900.00	0.00	0.00	2,503.60	5,900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,000.00	0.00	0.00	2,603.60	6,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,100.00	0.00	0.00	2,703.60	6,100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,155.00	0.00	0.00	2,758.60	6,155.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
Bell Canyon												
6,200.00	0.00	0.00	2,803.60	6,200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,300.00	0.00	0.00	2,903.60	6,300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,400.00	0.00	0.00	3,003.60	6,400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,500.00	0.00	0.00	3,103.60	6,500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,600.00	0.00	0.00	3,203.60	6,600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,700.00	0.00	0.00	3,303.60	6,700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,800.00	0.00	0.00	3,403.60	6,800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
6,900.00	0.00	0.00	3,503.60	6,900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
7,000.00	0.00	0.00	3,603.60	7,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		
7,100.00	0.00	0.00	3,703.60	7,100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20		

Phoenix Technology Services

EOG Resources



Company: EOG Resources
Project: Lea County, NM (Nad27)
Site: Vaca 14 Federal
Well: Vaca 14 Fed 6H
Wellbore: Wellbore #1
Design: Plan#1 082712

Local Co-ordinate Reference: Well Vaca 14 Fed 6H
TVD Reference: WELL @ 3396.40usft (Original Well Elev)
MD Reference: WELL @ 3396.40usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)
7,200.00	0.00	0.00	3,803.60	7,200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
7,300.00	0.00	0.00	3,903.60	7,300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
7,400.00	0.00	0.00	4,003.60	7,400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
7,500.00	0.00	0.00	4,103.60	7,500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
7,600.00	0.00	0.00	4,203.60	7,600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
7,700.00	0.00	0.00	4,303.60	7,700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
7,800.00	0.00	0.00	4,403.60	7,800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
7,900.00	0.00	0.00	4,503.60	7,900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,000.00	0.00	0.00	4,603.60	8,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,100.00	0.00	0.00	4,703.60	8,100.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,200.00	0.00	0.00	4,803.60	8,200.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,300.00	0.00	0.00	4,903.60	8,300.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,400.00	0.00	0.00	5,003.60	8,400.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,500.00	0.00	0.00	5,103.60	8,500.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,600.00	0.00	0.00	5,203.60	8,600.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,700.00	0.00	0.00	5,303.60	8,700.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,800.00	0.00	0.00	5,403.60	8,800.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
8,900.00	0.00	0.00	5,503.60	8,900.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
9,000.00	0.00	0.00	5,603.60	9,000.00	0.00	0.00	0.00	0.00	414,652.60	744,233.20
9,008.01	0.00	0.00	5,611.61	9,008.01	0.00	0.00	0.00	0.00	414,652.60	744,233.20
Start Build 12.00										
9,100.00	11.04	181.37	5,703.03	9,099.43	-8.83	-0.21	8.84	12.00	414,643.77	744,232.99
9,200.00	23.04	181.37	5,798.47	9,194.87	-38.07	-0.91	38.08	12.00	414,614.53	744,232.29
9,227.67	26.36	181.37	5,823.60	9,220.00	-49.63	-1.19	49.64	12.00	414,602.97	744,232.01
Cherry Canyon										
9,300.00	35.04	181.37	5,885.74	9,282.14	-86.51	-2.07	86.54	12.00	414,566.09	744,231.13
9,400.00	47.04	181.37	5,961.02	9,357.42	-152.03	-3.63	152.07	12.00	414,500.57	744,229.57

Phoenix Technology Services

EOG Resources



Company: EOG Resources
Project: Lea County, NM (Nad27)
Site: Vaca 14 Federal
Well: Vaca 14 Fed 6H
Wellbore: Wellbore #1
Design: Plan#1 082712

Local Co-ordinate Reference: Well Vaca 14 Fed 6H
TVD Reference: WELL @ 3396.40usft (Original Well Elev)
MD Reference: WELL @ 3396.40usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)
9,500.00	59.04	181.37	6,021.04	9,417.44	-231.77	-5.54	231.83	12.00	414,420.83	744,227.66
9,600.00	71.04	181.37	6,063.16	9,459.56	-322.24	-7.70	322.33	12.00	414,330.36	744,225.50
9,700.00	83.04	181.37	6,085.55	9,481.95	-419.48	-10.03	419.60	12.00	414,233.12	744,223.17
9,764.92	90.83	181.37	6,089.02	9,485.42	-484.24	-11.58	484.38	12.00	414,168.36	744,221.62
Start 4516.19 hold at 9764.92 MD										
9,800.00	90.83	181.37	6,088.51	9,484.91	-519.31	-12.41	519.46	0.00	414,133.29	744,220.79
9,900.00	90.83	181.37	6,087.06	9,483.46	-619.27	-14.80	619.44	0.00	414,033.33	744,218.40
10,000.00	90.83	181.37	6,085.62	9,482.02	-719.23	-17.19	719.43	0.00	413,933.37	744,216.01
10,100.00	90.83	181.37	6,084.17	9,480.57	-819.19	-19.58	819.42	0.00	413,833.41	744,213.62
10,200.00	90.83	181.37	6,082.72	9,479.12	-919.15	-21.97	919.41	0.00	413,733.45	744,211.23
10,300.00	90.83	181.37	6,081.27	9,477.67	-1,019.11	-24.36	1,019.40	0.00	413,633.49	744,208.84
10,400.00	90.83	181.37	6,079.82	9,476.22	-1,119.07	-26.75	1,119.39	0.00	413,533.53	744,206.45
10,500.00	90.83	181.37	6,078.37	9,474.77	-1,219.03	-29.14	1,219.38	0.00	413,433.57	744,204.06
10,600.00	90.83	181.37	6,076.92	9,473.32	-1,318.99	-31.53	1,319.37	0.00	413,333.61	744,201.67
10,700.00	90.83	181.37	6,075.48	9,471.88	-1,418.96	-33.92	1,419.36	0.00	413,233.64	744,199.28
10,800.00	90.83	181.37	6,074.03	9,470.43	-1,518.92	-36.31	1,519.35	0.00	413,133.68	744,196.89
10,900.00	90.83	181.37	6,072.58	9,468.98	-1,618.88	-38.70	1,619.34	0.00	413,033.72	744,194.50
11,000.00	90.83	181.37	6,071.13	9,467.53	-1,718.84	-41.09	1,719.33	0.00	412,933.76	744,192.11
11,100.00	90.83	181.37	6,069.68	9,466.08	-1,818.80	-43.48	1,819.32	0.00	412,833.80	744,189.72
11,200.00	90.83	181.37	6,068.23	9,464.63	-1,918.76	-45.87	1,919.31	0.00	412,733.84	744,187.33
11,300.00	90.83	181.37	6,066.78	9,463.18	-2,018.72	-48.26	2,019.30	0.00	412,633.88	744,184.94
11,400.00	90.83	181.37	6,065.34	9,461.74	-2,118.68	-50.65	2,119.29	0.00	412,533.92	744,182.55
11,500.00	90.83	181.37	6,063.89	9,460.29	-2,218.64	-53.04	2,219.28	0.00	412,433.96	744,180.16
11,600.00	90.83	181.37	6,062.44	9,458.84	-2,318.60	-55.42	2,319.27	0.00	412,334.00	744,177.78
11,700.00	90.83	181.37	6,060.99	9,457.39	-2,418.57	-57.81	2,419.26	0.00	412,234.03	744,175.39
11,800.00	90.83	181.37	6,059.54	9,455.94	-2,518.53	-60.20	2,519.25	0.00	412,134.07	744,173.00
11,900.00	90.83	181.37	6,058.09	9,454.49	-2,618.49	-62.59	2,619.23	0.00	412,034.11	744,170.61

Phoenix Technology Services

EOG Resources



Company: EOG Resources
 Project: Lea County, NM (Nad27)
 Site: Vaca 14 Federal
 Well: Vaca 14 Fed 6H
 Wellbore: Wellbore #1
 Design: Plan#1 082712

Local Co-ordinate Reference: Well Vaca 14 Fed 6H
 TVD Reference: WELL @ 3396.40usft (Original Well Elev)
 MD Reference: WELL @ 3396.40usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)
12,000.00	90.83	181.37	6,056.64	9,453.04	-2,718.45	-64.98	2,719.22	0.00	411,934.15	744,168.22
12,100.00	90.83	181.37	6,055.20	9,451.60	-2,818.41	-67.37	2,819.21	0.00	411,834.19	744,165.83
12,200.00	90.83	181.37	6,053.75	9,450.15	-2,918.37	-69.76	2,919.20	0.00	411,734.23	744,163.44
12,300.00	90.83	181.37	6,052.30	9,448.70	-3,018.33	-72.15	3,019.19	0.00	411,634.27	744,161.05
12,400.00	90.83	181.37	6,050.85	9,447.25	-3,118.29	-74.54	3,119.18	0.00	411,534.31	744,158.66
12,500.00	90.83	181.37	6,049.40	9,445.80	-3,218.25	-76.93	3,219.17	0.00	411,434.35	744,156.27
12,600.00	90.83	181.37	6,047.95	9,444.35	-3,318.21	-79.32	3,319.16	0.00	411,334.39	744,153.88
12,700.00	90.83	181.37	6,046.50	9,442.90	-3,418.17	-81.71	3,419.15	0.00	411,234.43	744,151.49
12,800.00	90.83	181.37	6,045.05	9,441.45	-3,518.14	-84.10	3,519.14	0.00	411,134.46	744,149.10
12,900.00	90.83	181.37	6,043.61	9,440.01	-3,618.10	-86.49	3,619.13	0.00	411,034.50	744,146.71
13,000.00	90.83	181.37	6,042.16	9,438.56	-3,718.06	-88.88	3,719.12	0.00	410,934.54	744,144.32
13,100.00	90.83	181.37	6,040.71	9,437.11	-3,818.02	-91.27	3,819.11	0.00	410,834.58	744,141.93
13,200.00	90.83	181.37	6,039.26	9,435.66	-3,917.98	-93.66	3,919.10	0.00	410,734.62	744,139.54
13,300.00	90.83	181.37	6,037.81	9,434.21	-4,017.94	-96.05	4,019.09	0.00	410,634.66	744,137.15
13,400.00	90.83	181.37	6,036.36	9,432.76	-4,117.90	-98.44	4,119.08	0.00	410,534.70	744,134.76
13,500.00	90.83	181.37	6,034.91	9,431.31	-4,217.86	-100.83	4,219.07	0.00	410,434.74	744,132.37
13,600.00	90.83	181.37	6,033.47	9,429.87	-4,317.82	-103.21	4,319.06	0.00	410,334.78	744,129.99
13,700.00	90.83	181.37	6,032.02	9,428.42	-4,417.78	-105.60	4,419.05	0.00	410,234.82	744,127.60
13,800.00	90.83	181.37	6,030.57	9,426.97	-4,517.75	-107.99	4,519.04	0.00	410,134.85	744,125.21
13,900.00	90.83	181.37	6,029.12	9,425.52	-4,617.71	-110.38	4,619.03	0.00	410,034.89	744,122.82
14,000.00	90.83	181.37	6,027.67	9,424.07	-4,717.67	-112.77	4,719.01	0.00	409,934.93	744,120.43
14,100.00	90.83	181.37	6,026.22	9,422.62	-4,817.63	-115.16	4,819.00	0.00	409,834.97	744,118.04
14,200.00	90.83	181.37	6,024.77	9,421.17	-4,917.59	-117.55	4,918.99	0.00	409,735.01	744,115.65
14,280.00	90.83	181.37	6,023.62	9,420.02	-4,997.56	-119.46	4,998.99	0.00	409,655.04	744,113.74
TD at 14281.11										
14,281.11	90.83	181.37	6,023.60	9,420.00	-4,998.67	-119.49	5,000.10	0.00	409,653.93	744,113.71

Phoenix Technology Services

EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Vaca 14 Fed 6H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3396.40usft (Original Well Elev)
Site:	Vaca 14 Federal	MD Reference:	WELL @ 3396.40usft (Original Well Elev)
Well:	Vaca 14 Fed 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 082712	Database:	GCR DB v5000

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,040.00	5,040.00	Base Salt		0.00	
5,070.00	5,070.00	Lamar		0.00	
1,120.00	1,120.00	Rustler		0.00	
6,155.00	6,155.00	Bell Canyon		0.00	
4,800.00	4,800.00	Top Salt		0.00	
9,227.67	9,220.00	Cherry Canyon		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,008.01	9,008.01	0.00	0.00	Start Build 12.00
9,764.92	9,485.42	-484.24	-11.58	Start 4516.19 hold at 9764.92 MD
14,280.00	9,420.02	-4,997.56	-119.46	TD at 14281.11

Checked By: _____ Approved By: _____ Date: _____