

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

HOBBS OCD

FORM APPROVED
OMB NO. 1004-0137
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.

MAY 25 2011

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NM 94110
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) 2197' FNL & 655' FWL, U/L E, Sec 27 (SHL) 2310' FSL & 330' FWL, U/L L, Sec 22 (BHL)		8. Well Name and No. Pitchblende 27 1H Federal
		9. API Well No. 30-025-36929
		10. Field and Pool, or Exploratory Area Undesignated; Delaware
		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 recomple 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 recomple 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 the approved APD bottom hole location for our Pitchblende 27 Federal 1H be changed to:

2310' FNL & 990' FWL, U/L E, Sec 34, T25S, R34E Lea County NM.
Amended drilling and directional plans attached.

Additionally, EOG Resources requests the name be changed from Pitchblende 27 Federal 1H to:
Pitchblende 27 Fed Com 1H.

SUBJECT TO LIKE
APPROVAL BY STATE

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Stan Wagner		Title Regulatory Analyst
Signature <i>Stan Wagner</i>		Date 5/11/11
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by <i>[Signature]</i>		Title DATE MAY 18 2011 /s/ Chris Walls
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 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE

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.

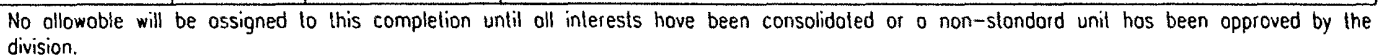
AUG 2 9 2012

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Surface Location

Bottom Hole Location If Different From Surface

OPERATOR 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 unleased 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.

Signature

Date

Stan Wagner
Printed Name

SURVEYOR CERTIFICATION

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

~~Date of Survey~~

Signature of Professional Supervisor

Certificate Number

15079

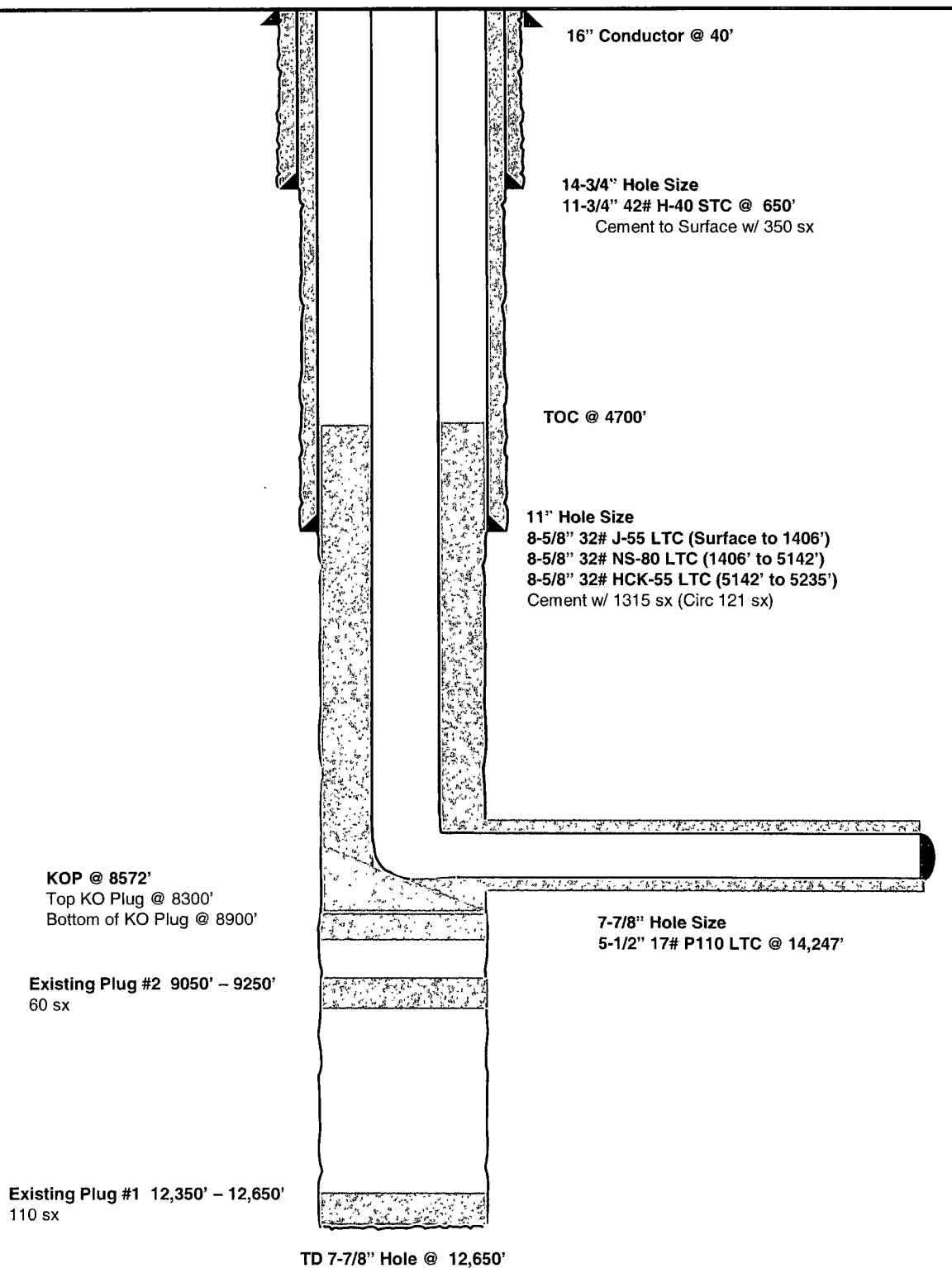
WO# 101220WL (Rev. A) (KA)

2197' FNL
655' FWL
Section 27
Township 25 South
Range 34 East

Pitchblende "27" Fed Com #1H
Red Hills Field
Lea County, NM

KB: 3347'
GL: 3317'

API #: 30-025-36929
Proposed Wellbore



EOG RESOURCES, INC.
PITCHBLEND 27 FED COM NO. 1H
REVISED 5/11/11

1. GEOLOGIC NAME OF SURFACE FORMATION:

Quaternary

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	810'
Base of Salt	5,058'
Lamar	5,318'
Bell Canyon	5,344'
Cherry Canyon	6,326'
Brushy Canyon	7,945'
Bone Spring Lime	9,294'
1 st Bone Spring Sand	10,407'

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

Upper Permian Sands	0- 400'	Fresh Water
Brushy Canyon	7,945'	Oil
1 st Bone Spring Sand	10,407'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities.

4. CASING PROGRAM – NEW

Sidetrack out of the existing 7-7/8" hole via a cement plug.

Bit Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14-3/4"	0' – 650'	11.75" Existing	42.0#	H40	STC	1.125	1.25	1.6
11"	0' – 1406'	8.625" Existing	32.0#	J55	LTC	1.125	1.25	1.6
11"	1406' – 5142'	8.625" Existing	32.0#	NS80	LTC	1.125	1.25	1.6
11"	5142' – 5235'	8.625" Existing	32.0#	HCK55	LTC	1.125	1.25	1.6
7-7/8"	0' -14,247'	5.5"	17.0#	P110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
PITCHBLEND 27 FED COM NO. 1H
REVISED 5/11/11

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
8,300' - 8,900'	300	18.0	0.90	600' Sidetrack Plug - Class 'H' + 1.20% CD-32 + 0.12% R-3
14,247'	100	10.8	3.67	Lead 1: 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 + 2.10% R-21 + 8.00 lb/sk LCM-1 + 0.01 gps FP-13L (TOC @ 4700')
	275	11.8	2.38	Lead 2: 50:50:10 Class H + 0.80% FL-52A + 0.30% ASA-301 + 0.30% SMS + 2.00% Salt (2.47 lb/sk) + 0.35% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
	900	14.2	1.28	Tail: 50:50:2 Class H + 0.65% FL-52A + 0.20% CD-32 + 0.15% SMS + 2.00% Salt (0.961 lb/sk) + 0.20% R-3 + 0.005 lb/sk Static Free

All cement volumes are based on bit size + 25% excess.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

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

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be cleaned out to KOP and drilled to TD with a cut brine, and polymer sweeps. The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
Drill out plugs to 9050'	Cut Brine	9.0-9.5	28-42	N/c
KOP to TD of Lateral	Cut Brine	9.0-9.5	28-42	N/c

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

EOG RESOURCES, INC.
PITCHBLEND 27 FED COM NO. 1H
REVISED 5/11/11

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 KOP to TD.
- (D) H₂S monitoring and detection equipment will be utilized from KOP to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Quad Combo - Possible in the production hole (vertical and/or lateral)
FMI - Possible in the production hole (vertical and/or lateral)

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

The estimated bottom hole temperature (BHT) at TD is 151 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4000 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 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.



Project: Lea County
Site: Pitchblende 27 Fed Com
Well: 1H
Wellbore: OH
Plan: Plan #2 (1H/OH)

PATHFINDER
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WELL DETAILS 1H						
Ground Elevation 3317.20						
RKB Elevation McVay #4 @ 3336.20usft						
Rig Name:						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	402131.500	769262.900	32° 6' 9.326 N	103° 27' 49.585 W	

SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8572.54	0.00	0.00	8572.54	0.00	0.00	0.00	0.00	0.00	0.00	
9322.54	90.00	175.93	9050.00	-476.26	33.85	12.00	175.93	477.47		
14247.57	90.00	175.93	9050.00	-5388.90	383.00	0.00	0.00	5402.49	PBHL (P27)	

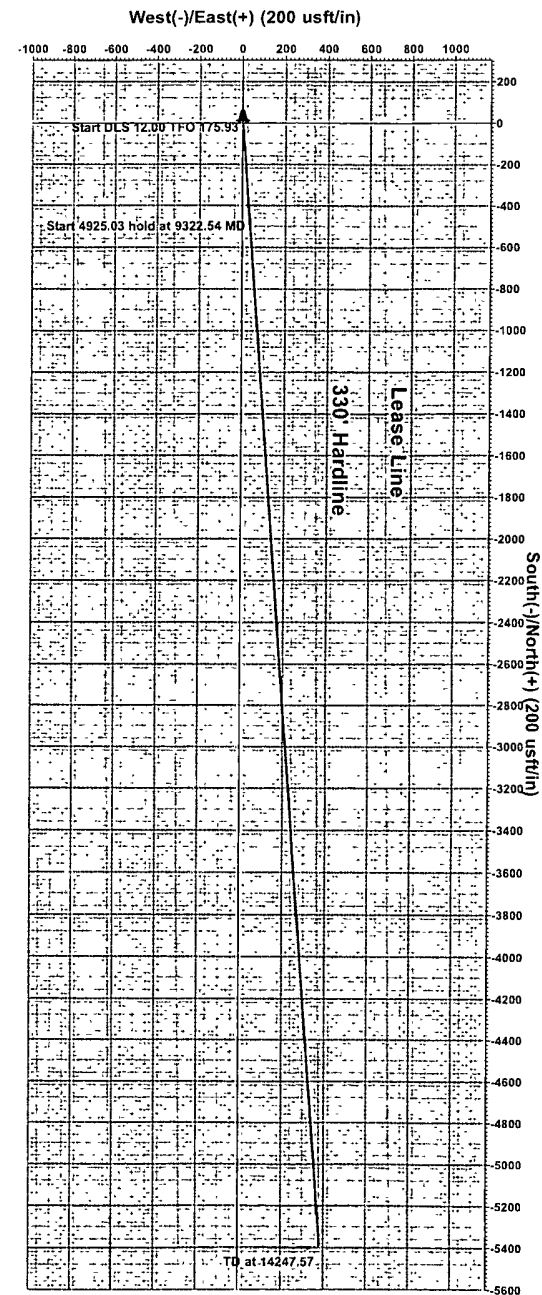
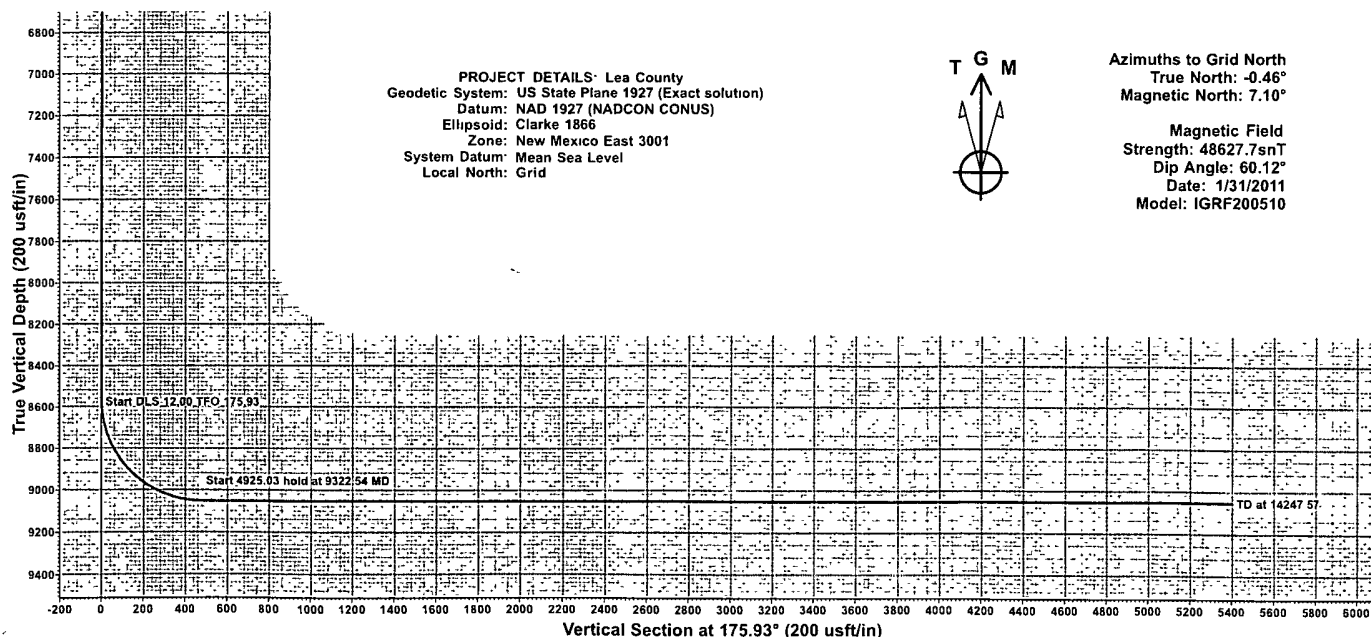
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (P27)	9050.00	-5388.90	383.00	396742.600	769645.900	Point

PROJECT DETAILS: Lea County
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
Local North: Grid



Azimuths to Grid North
True North: -0.46°
Magnetic North: 7.10°

Magnetic Field
Strength: 48627.7snT
Dip Angle: 60.12°
Date: 1/31/2011
Model: IGRF200510



Plan, Plan #2 (1H/OH)			
Created By	Nate Bingham	Date:	13:23, May 11 2011
Checked		Date:	



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MAY 25 2011

RECEIVED

EOG Resources, Inc.

Lea County

Pitchblende 27 Fed Com

1H

OH

Plan: Plan #2

Pathfinder X&Y Report

11 May, 2011



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Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1H
Project:	Lea County	TVD Reference:	McVay #4 @ 3336.20usft
Site:	Pitchblende 27 Fed Com	MD Reference:	McVay #4 @ 3336 20usft
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Project:	Lea County		
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:	Pitchblende 27 Fed Com		
Site Position:		Northing:	402,131.500 usft
From:	Map	Easting:	769,262.900 usft
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 9.326 N
		Longitude:	103° 27' 49.585 W
		Grid Convergence:	0.46 °

Well:	1H					
Well Position	+N/-S	0.00 usft	Northing:	402,131.500 usft	Latitude:	32° 6' 9.326 N
	+E/-W	0.00 usft	Easting:	769,262.900 usft	Longitude:	103° 27' 49.585 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,317.20 usft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	1/31/2011	(°) 7.56	(°) 60.12	(nT) 48,628

Design:	Plan #2			
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	175.93

Survey Tool Program	Date	5/11/2011		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	14,247.53	Plan #2 (OH)	MWD	MWD - Standard



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Pathfinder
Pathfinder X&Y Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1H
Project:	Lea County	TVD Reference:	McVay #4 @ 3336.20usft
Site:	Pitchblende 27 Fed Com	MD Reference:	McVay #4 @ 3336.20usft
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM-5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	-3,336.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
100.00	0.00	0.00	100.00	-3,236.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
200.00	0.00	0.00	200.00	-3,136.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
300.00	0.00	0.00	300.00	-3,036.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
400.00	0.00	0.00	400.00	-2,936.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
500.00	0.00	0.00	500.00	-2,836.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
600.00	0.00	0.00	600.00	-2,736.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
700.00	0.00	0.00	700.00	-2,636.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
800.00	0.00	0.00	800.00	-2,536.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
900.00	0.00	0.00	900.00	-2,436.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,000.00	0.00	0.00	1,000.00	-2,336.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,100.00	0.00	0.00	1,100.00	-2,236.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,200.00	0.00	0.00	1,200.00	-2,136.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,300.00	0.00	0.00	1,300.00	-2,036.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,400.00	0.00	0.00	1,400.00	-1,936.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,500.00	0.00	0.00	1,500.00	-1,836.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,600.00	0.00	0.00	1,600.00	-1,736.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,700.00	0.00	0.00	1,700.00	-1,636.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,800.00	0.00	0.00	1,800.00	-1,536.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,900.00	0.00	0.00	1,900.00	-1,436.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,000.00	0.00	0.00	2,000.00	-1,336.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,100.00	0.00	0.00	2,100.00	-1,236.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,200.00	0.00	0.00	2,200.00	-1,136.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,300.00	0.00	0.00	2,300.00	-1,036.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,400.00	0.00	0.00	2,400.00	-936.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,500.00	0.00	0.00	2,500.00	-836.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,600.00	0.00	0.00	2,600.00	-736.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	



A Schlumberger Company

Pathfinder

Pathfinder X&Y Report



A Schlumberger Company

Company:	EOG Resources, Inc.						Local Co-ordinate Reference:		Well 1H				
Project:	Lea County						TVD Reference:		McVay #4 @ 3336.20usft				
Site:	Pitchblende 27 Fed Com						MD Reference:		McVay #4 @ 3336.20usft				
Well:	1H						North Reference:		Grid				
Wellbore:	OH						Survey Calculation Method:		Minimum Curvature				
Design:	Plan #2						Database:		EDM 5000.1 Single User Db				
Planned Survey													
MD (usft)	Inc (°)	Azi:(azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V: Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)			
2,700.00	0.00	0.00	2,700.00	-636.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
2,800.00	0.00	0.00	2,800.00	-536.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
2,900.00	0.00	0.00	2,900.00	-436.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,000.00	0.00	0.00	3,000.00	-336.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,100.00	0.00	0.00	3,100.00	-236.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,200.00	0.00	0.00	3,200.00	-136.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,300.00	0.00	0.00	3,300.00	-36.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,400.00	0.00	0.00	3,400.00	63.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,500.00	0.00	0.00	3,500.00	163.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,600.00	0.00	0.00	3,600.00	263.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,700.00	0.00	0.00	3,700.00	363.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,800.00	0.00	0.00	3,800.00	463.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
3,900.00	0.00	0.00	3,900.00	563.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,000.00	0.00	0.00	4,000.00	663.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,100.00	0.00	0.00	4,100.00	763.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,200.00	0.00	0.00	4,200.00	863.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,300.00	0.00	0.00	4,300.00	963.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,400.00	0.00	0.00	4,400.00	1,063.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,500.00	0.00	0.00	4,500.00	1,163.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,600.00	0.00	0.00	4,600.00	1,263.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,700.00	0.00	0.00	4,700.00	1,363.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,800.00	0.00	0.00	4,800.00	1,463.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
4,900.00	0.00	0.00	4,900.00	1,563.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
5,000.00	0.00	0.00	5,000.00	1,663.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
5,100.00	0.00	0.00	5,100.00	1,763.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
5,200.00	0.00	0.00	5,200.00	1,863.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			
5,300.00	0.00	0.00	5,300.00	1,963.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90			

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1H
Project:	Lea County	TVD Reference:	McVay #4 @ 3336.20usft
Site:	Pitchblende 27 Fed Com	MD Reference:	McVay #4 @ 3336.20usft
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
5,400.00	0.00	0.00	5,400.00	2,063.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,500.00	0.00	0.00	5,500.00	2,163.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,600.00	0.00	0.00	5,600.00	2,263.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,700.00	0.00	0.00	5,700.00	2,363.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,800.00	0.00	0.00	5,800.00	2,463.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,900.00	0.00	0.00	5,900.00	2,563.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,000.00	0.00	0.00	6,000.00	2,663.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,100.00	0.00	0.00	6,100.00	2,763.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,200.00	0.00	0.00	6,200.00	2,863.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,300.00	0.00	0.00	6,300.00	2,963.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,400.00	0.00	0.00	6,400.00	3,063.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,500.00	0.00	0.00	6,500.00	3,163.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,600.00	0.00	0.00	6,600.00	3,263.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,700.00	0.00	0.00	6,700.00	3,363.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,800.00	0.00	0.00	6,800.00	3,463.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,900.00	0.00	0.00	6,900.00	3,563.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,000.00	0.00	0.00	7,000.00	3,663.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,100.00	0.00	0.00	7,100.00	3,763.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,200.00	0.00	0.00	7,200.00	3,863.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,300.00	0.00	0.00	7,300.00	3,963.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,400.00	0.00	0.00	7,400.00	4,063.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,500.00	0.00	0.00	7,500.00	4,163.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,600.00	0.00	0.00	7,600.00	4,263.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,700.00	0.00	0.00	7,700.00	4,363.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,800.00	0.00	0.00	7,800.00	4,463.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,900.00	0.00	0.00	7,900.00	4,563.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
8,000.00	0.00	0.00	8,000.00	4,663.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	

Company: EOG Resources, Inc.
 Project: Lea County
 Site: Pitchblende 27 Fed Com
 Well: 1H
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well 1H
 McVay #4 @ 3336.20usft
 McVay #4 @ 3336.20usft
 Grid
 Minimum Curvature
 EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,100.00	0.00	0.00	8,100.00	4,763.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,200.00	0.00	0.00	8,200.00	4,863.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,300.00	0.00	0.00	8,300.00	4,963.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,400.00	0.00	0.00	8,400.00	5,063.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,500.00	0.00	0.00	8,500.00	5,163.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,572.54	0.00	0.00	8,572.54	5,236.34	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,575.00	0.30	175.93	8,575.00	5,238.80	-0.01	0.00	0.01	12.00	402,131.49	769,262.90
8,600.00	3.30	175.93	8,599.98	5,263.78	-0.79	0.06	0.79	12.00	402,130.71	769,262.96
8,625.00	6.30	175.93	8,624.89	5,288.69	-2.87	0.20	2.88	12.00	402,128.63	769,263.10
8,650.00	9.30	175.93	8,649.66	5,313.46	-6.25	0.44	6.27	12.00	402,125.25	769,263.34
8,675.00	12.30	175.93	8,674.22	5,338.02	-10.92	0.78	10.95	12.00	402,120.58	769,263.68
8,700.00	15.30	175.93	8,698.49	5,362.29	-16.87	1.20	16.91	12.00	402,114.63	769,264.10
8,725.00	18.30	175.93	8,722.42	5,386.22	-24.07	1.71	24.13	12.00	402,107.43	769,264.61
8,750.00	21.30	175.93	8,745.94	5,409.74	-32.52	2.31	32.60	12.00	402,098.98	769,265.21
8,775.00	24.30	175.93	8,768.99	5,432.79	-42.18	3.00	42.29	12.00	402,089.32	769,265.90
8,800.00	27.30	175.93	8,791.49	5,455.29	-53.03	3.77	53.16	12.00	402,078.47	769,266.67
8,825.00	30.30	175.93	8,813.40	5,477.20	-65.04	4.62	65.20	12.00	402,066.46	769,267.52
8,850.00	33.30	175.93	8,834.65	5,498.45	-78.18	5.56	78.37	12.00	402,053.32	769,268.46
8,875.00	36.30	175.93	8,855.17	5,518.97	-92.41	6.57	92.64	12.00	402,039.09	769,269.47
8,900.00	39.30	175.93	8,874.93	5,538.73	-107.69	7.65	107.96	12.00	402,023.81	769,270.55
8,925.00	42.30	175.93	8,893.85	5,557.65	-123.98	8.81	124.29	12.00	402,007.52	769,271.71
8,950.00	45.30	175.93	8,911.89	5,575.69	-141.23	10.04	141.59	12.00	401,990.27	769,272.94
8,975.00	48.30	175.93	8,929.01	5,592.81	-159.41	11.33	159.81	12.00	401,972.09	769,274.23
9,000.00	51.30	175.93	8,945.14	5,608.94	-178.45	12.68	178.90	12.00	401,953.05	769,275.58
9,025.00	54.30	175.93	8,960.26	5,624.06	-198.31	14.09	198.81	12.00	401,933.19	769,276.99
9,050.00	57.30	175.93	8,974.31	5,638.11	-218.93	15.56	219.49	12.00	401,912.57	769,278.46
9,075.00	60.30	175.93	8,987.26	5,651.06	-240.26	17.08	240.87	12.00	401,891.24	769,279.98



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Pathfinder Pathfinder X&Y Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1H
Project:	Lea County	TVD Reference:	McVay #4 @ 3336.20usft
Site:	Pitchblende 27 Fed Com	MD Reference:	McVay #4 @ 3336.20usft
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
9,100.00	63.30	175.93	8,999.08	5,662.88	-262.23	18.64	262.90	12.00	401,869.27	769,281.54	
9,125.00	66.30	175.93	9,009.72	5,673.52	-284.79	20.24	285.51	12.00	401,846.71	769,283.14	
9,150.00	69.30	175.93	9,019.17	5,682.97	-307.88	21.88	308.66	12.00	401,823.62	769,284.78	
9,175.00	72.30	175.93	9,027.39	5,691.19	-331.43	23.56	332.26	12.00	401,800.07	769,286.46	
9,200.00	75.30	175.93	9,034.37	5,698.17	-355.37	25.26	356.27	12.00	401,776.13	769,288.16	
9,225.00	78.30	175.93	9,040.08	5,703.88	-379.64	26.98	380.60	12.00	401,751.86	769,289.88	
9,250.00	81.30	175.93	9,044.51	5,708.31	-404.18	28.73	405.20	12.00	401,727.32	769,291.63	
9,275.00	84.30	175.93	9,047.64	5,711.44	-428.92	30.48	430.00	12.00	401,702.58	769,293.38	
9,300.00	87.30	175.93	9,049.47	5,713.27	-453.79	32.25	454.93	12.00	401,677.71	769,295.15	
9,322.54	90.00	175.93	9,050.00	5,713.80	-476.26	33.85	477.47	12.00	401,655.24	769,296.75	
9,400.00	90.00	175.93	9,050.00	5,713.80	-553.53	39.34	554.92	0.00	401,577.97	769,302.24	
9,500.00	90.00	175.93	9,050.00	5,713.80	-653.28	46.43	654.92	0.00	401,478.22	769,309.33	
9,600.00	90.00	175.93	9,050.00	5,713.80	-753.03	53.52	754.92	0.00	401,378.47	769,316.42	
9,700.00	90.00	175.93	9,050.00	5,713.80	-852.77	60.61	854.92	0.00	401,278.73	769,323.51	
9,800.00	90.00	175.93	9,050.00	5,713.80	-952.52	67.70	954.92	0.00	401,178.98	769,330.60	
9,900.00	90.00	175.93	9,050.00	5,713.80	-1,052.27	74.79	1,054.92	0.00	401,079.23	769,337.69	
10,000.00	90.00	175.93	9,050.00	5,713.80	-1,152.02	81.88	1,154.92	0.00	400,979.48	769,344.78	
10,100.00	90.00	175.93	9,050.00	5,713.80	-1,251.77	88.97	1,254.92	0.00	400,879.73	769,351.87	
10,200.00	90.00	175.93	9,050.00	5,713.80	-1,351.52	96.05	1,354.92	0.00	400,779.98	769,358.95	
10,300.00	90.00	175.93	9,050.00	5,713.80	-1,451.26	103.14	1,454.92	0.00	400,680.24	769,366.04	
10,400.00	90.00	175.93	9,050.00	5,713.80	-1,551.01	110.23	1,554.92	0.00	400,580.49	769,373.13	
10,500.00	90.00	175.93	9,050.00	5,713.80	-1,650.76	117.32	1,654.92	0.00	400,480.74	769,380.22	
10,600.00	90.00	175.93	9,050.00	5,713.80	-1,750.51	124.41	1,754.92	0.00	400,380.99	769,387.31	
10,700.00	90.00	175.93	9,050.00	5,713.80	-1,850.26	131.50	1,854.92	0.00	400,281.24	769,394.40	
10,800.00	90.00	175.93	9,050.00	5,713.80	-1,950.01	138.59	1,954.92	0.00	400,181.49	769,401.49	
10,900.00	90.00	175.93	9,050.00	5,713.80	-2,049.75	145.68	2,054.92	0.00	400,081.75	769,408.58	
11,000.00	90.00	175.93	9,050.00	5,713.80	-2,149.50	152.77	2,154.92	0.00	399,982.00	769,415.67	



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Pathfinder

Pathfinder X&Y Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1H
Project:	Lea County	TVD Reference:	McVay #4 @ 3336.20usft
Site:	Pitchblende 27 Fed Com	MD Reference:	McVay #4 @ 3336.20usft
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
11,100.00	90.00	175.93	9,050.00	5,713.80	-2,249.25	159.86	2,254.92	0.00	399,882.25	769,422.76
11,200.00	90.00	175.93	9,050.00	5,713.80	-2,349.00	166.95	2,354.92	0.00	399,782.50	769,429.85
11,300.00	90.00	175.93	9,050.00	5,713.80	-2,448.75	174.04	2,454.92	0.00	399,682.75	769,436.94
11,400.00	90.00	175.93	9,050.00	5,713.80	-2,548.50	181.13	2,554.92	0.00	399,583.00	769,444.03
11,500.00	90.00	175.93	9,050.00	5,713.80	-2,648.24	188.22	2,654.92	0.00	399,483.26	769,451.12
11,600.00	90.00	175.93	9,050.00	5,713.80	-2,747.99	195.31	2,754.92	0.00	399,383.51	769,458.21
11,700.00	90.00	175.93	9,050.00	5,713.80	-2,847.74	202.39	2,854.92	0.00	399,283.76	769,465.29
11,800.00	90.00	175.93	9,050.00	5,713.80	-2,947.49	209.48	2,954.92	0.00	399,184.01	769,472.38
11,900.00	90.00	175.93	9,050.00	5,713.80	-3,047.24	216.57	3,054.92	0.00	399,084.26	769,479.47
12,000.00	90.00	175.93	9,050.00	5,713.80	-3,146.99	223.66	3,154.92	0.00	398,984.51	769,486.56
12,100.00	90.00	175.93	9,050.00	5,713.80	-3,246.74	230.75	3,254.92	0.00	398,884.76	769,493.65
12,200.00	90.00	175.93	9,050.00	5,713.80	-3,346.48	237.84	3,354.92	0.00	398,785.02	769,500.74
12,300.00	90.00	175.93	9,050.00	5,713.80	-3,446.23	244.93	3,454.92	0.00	398,685.27	769,507.83
12,400.00	90.00	175.93	9,050.00	5,713.80	-3,545.98	252.02	3,554.92	0.00	398,585.52	769,514.92
12,500.00	90.00	175.93	9,050.00	5,713.80	-3,645.73	259.11	3,654.92	0.00	398,485.77	769,522.01
12,600.00	90.00	175.93	9,050.00	5,713.80	-3,745.48	266.20	3,754.92	0.00	398,386.02	769,529.10
12,700.00	90.00	175.93	9,050.00	5,713.80	-3,845.23	273.29	3,854.92	0.00	398,286.27	769,536.19
12,800.00	90.00	175.93	9,050.00	5,713.80	-3,944.97	280.38	3,954.92	0.00	398,186.53	769,543.28
12,900.00	90.00	175.93	9,050.00	5,713.80	-4,044.72	287.47	4,054.92	0.00	398,086.78	769,550.37
13,000.00	90.00	175.93	9,050.00	5,713.80	-4,144.47	294.56	4,154.92	0.00	397,987.03	769,557.46
13,100.00	90.00	175.93	9,050.00	5,713.80	-4,244.22	301.65	4,254.92	0.00	397,887.28	769,564.55
13,200.00	90.00	175.93	9,050.00	5,713.80	-4,343.97	308.73	4,354.92	0.00	397,787.53	769,571.63
13,300.00	90.00	175.93	9,050.00	5,713.80	-4,443.72	315.82	4,454.92	0.00	397,687.78	769,578.72
13,400.00	90.00	175.93	9,050.00	5,713.80	-4,543.46	322.91	4,554.92	0.00	397,588.04	769,585.81
13,500.00	90.00	175.93	9,050.00	5,713.80	-4,643.21	330.00	4,654.92	0.00	397,488.29	769,592.90
13,600.00	90.00	175.93	9,050.00	5,713.80	-4,742.96	337.09	4,754.92	0.00	397,388.54	769,599.99
13,700.00	90.00	175.93	9,050.00	5,713.80	-4,842.71	344.18	4,854.92	0.00	397,288.79	769,607.08



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1H
Project:	Lea County	TVD Reference:	McVay #4 @ 3336.20usft
Site:	Pitchblende 27 Fed Com	MD Reference:	McVay #4 @ 3336.20usft
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,800.00	90.00	175.93	9,050.00	5,713.80	-4,942.46	351.27	4,954.92	0.00	397,189.04	769,614.17
13,900.00	90.00	175.93	9,050.00	5,713.80	-5,042.21	358.36	5,054.92	0.00	397,089.29	769,621.26
14,000.00	90.00	175.93	9,050.00	5,713.80	-5,141.95	365.45	5,154.92	0.00	396,989.55	769,628.35
14,100.00	90.00	175.93	9,050.00	5,713.80	-5,241.70	372.54	5,254.92	0.00	396,889.80	769,635.44
14,200.00	90.00	175.93	9,050.00	5,713.80	-5,341.45	379.63	5,354.92	0.00	396,790.05	769,642.53
14,247.57	90.00	175.93	9,050.00	5,713.80	-5,388.90	383.00	5,402.49	0.00	396,742.60	769,645.90

Checked By: _____	Approved By: _____	Date: _____
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