

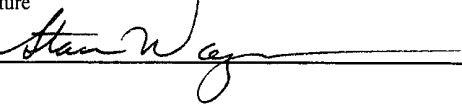
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Well ☐ DRILL ☒ REENTER		5. Lease Serial No. NM-94110
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator EOG Resources Inc.		7. Unit or CA Agreement Name and No.
3a. Address P.O. Box 2267 Midland, Texas 79702		8. Lease Name and Well No. Pitchblende 27 Federal 1H
3b. Phone No. (include area code) 432-686-3689		9. API Well No. 30-025-36929
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 2197' FNL & 655' FWL, U/L E Sec 27 At proposed prod. zone 2310' FSL & 330' FWL, U/L L Sec 22		10. Field and Pool or Exploratory WILDCAT Delaware
14. Distance in miles and direction from nearest town or post office* Approximately 23 miles SW from Jal NM		11. Sec., T., R., M., or Blk. and Survey or Area Sec 27, T25S, R34E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 330'	16. No. of Acres in lease 1160	17. Spacing Unit dedicated to this well 160 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. +5280'	19. Proposed Depth 13,364' MD 9050' TVD	20. BLM/BIA Bond No. on file NM-2308
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3317' GL	22. Approximate date work will start* 4/1/2011	23. Estimated duration 30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM |

25. Signature 	Name (Printed/Typed) Stan Wagner	Date 1/13/2011
Title Regulatory Analyst		
Approved by (Signautre) /s/ Don Peterson	Name (Printed/Typed)	Date APR 22 2011
Title FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

Carlsbad Controlled Water Basin

*(Instructions on page 2)
Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

MAY 04 2011

HOBBS OCD

MAY 02 2011

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

RECEIVED

Form C-402
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

API Number 30-025-36929	Pool Code 97821	Pool Name WILDCAT Undesignated; Delaware
Property Code	Property Name PITCHBLEND "27" FEDERAL	Well Number 1R
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3317.2'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	25 SOUTH	34 EAST, N.M.P.M.		2197'	NORTH	655'	WEST	LEA

Bottom Hole Location If Different From Surface

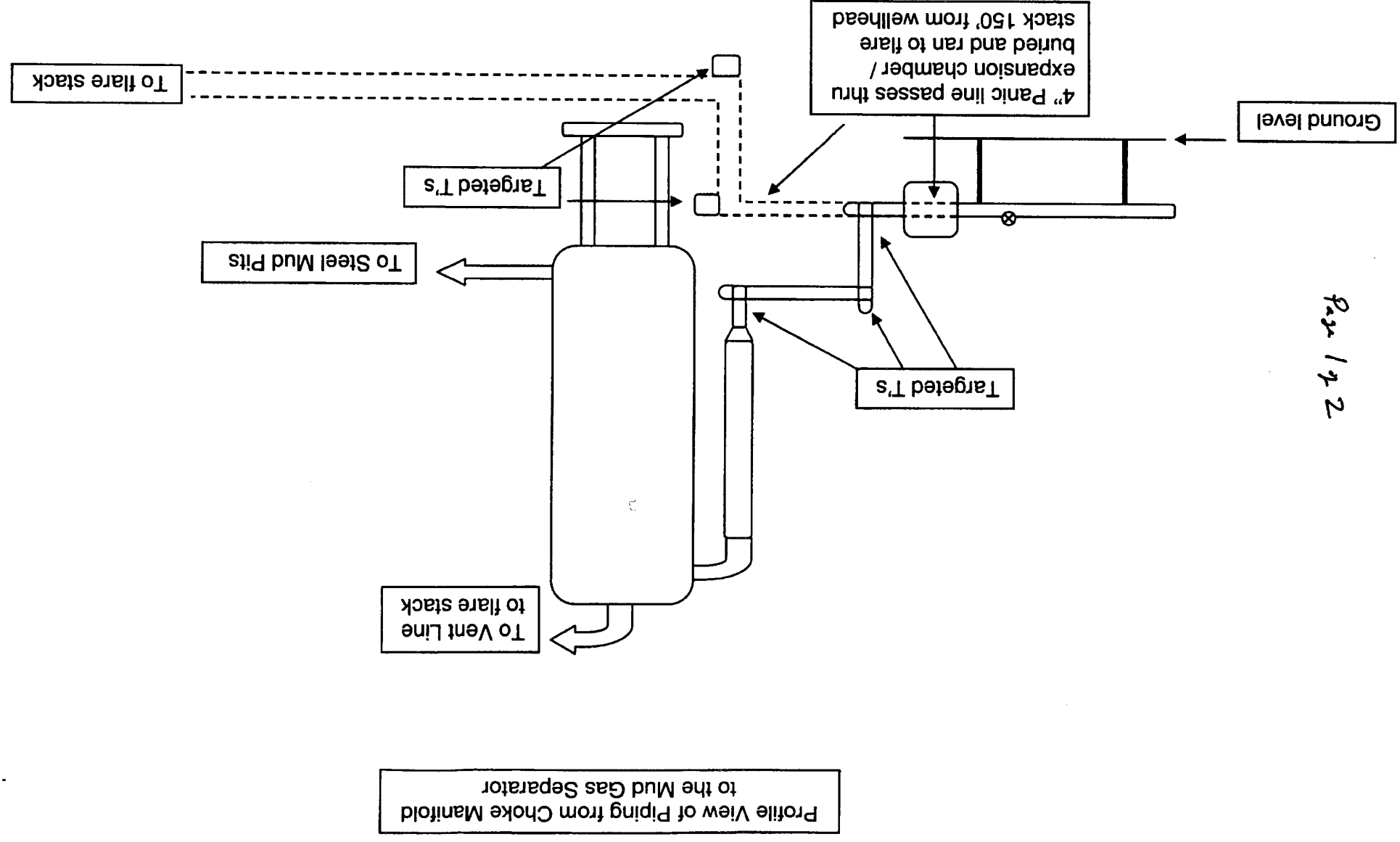
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	25 SOUTH	34 EAST, N.M.P.M.		2310'	SOUTH	330'	WEST	LEA

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
-------------------------------	-----------------	--------------------	-----------

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.

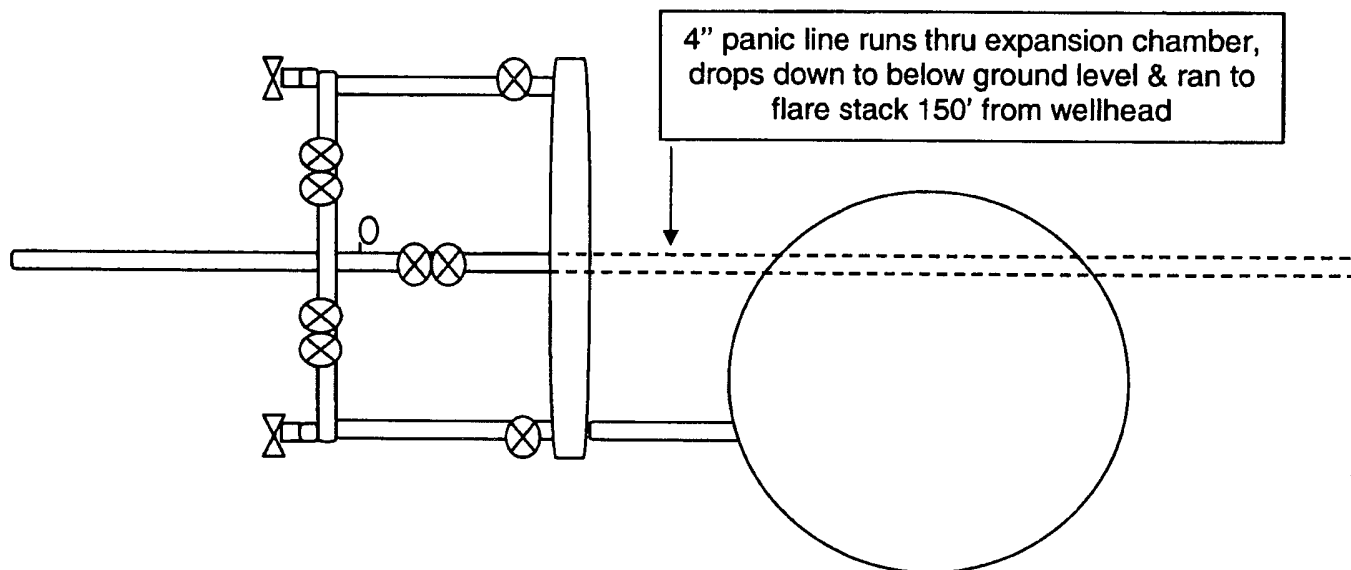
	BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 Y=406636.0 X=768899.5 LAT.: N 32.1149802° LONG.: W 103.4648298°	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest 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. <i>Donny G. Glanton</i> 1/5/11 Signature Date Donny G. Glanton Printed Name
	UPPER MOST PERF. NEW MEXICO EAST NAD 1927 Y=402460.4 X=769236.3 LAT.: N 32.1034952° LONG.: W 103.4638507°	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was located 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. DECEMBER 20, 2010 Date of Survey Signature and Seal of Professional Surveyor <i>Terry J. Paul</i> 1/5/2011 Certificate Number 15079 WO# 101220WL (KA)

Page 1 of 2



Page 2 of 2

Aerial View of the Piping from the Choke
Manifold to the Mud Gas Separator



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

Pitchblende "27" Federal #1 R
Red Hills Field
Lea County, NM

KB: 3347'
GL: 3317'

API #: 30-025-36929
Current Wellbore

Plug #6 100' – Surface
25 sx

16" Conductor @ 40'

14-3/4" Hole Size
11-3/4" 42# H-40 STC (Surface to 650')
Cement to Surface w/ 350 sx

Plug #5 2400' – 2500'
25 sx

Plug #4 5135' – 5285'
(Tag @ 5067')
90 sx

11" Hole Size
8-5/8" 32# J-55 LTC (Surface to 1406')
8-5/8" 32# NS-80 LTC (1406' to 5142')
8-5/8" 32# HCK-55 LTC (5142' to 5235')
Cement w/ 1315 sx (Circ 121 sx)

Plug #3 6800' – 7000'
65 sx

Plug #2 9050' – 9250'
60 sx

Plug #1 12,350' – 12,650'
110 sx

TD 7-7/8" Hole @ 12,650'

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

Pitchblende "27" Federal #1 R
Red Hills Field
Lea County, NM

KB: 3347'
GL: 3317'

API #: 30-025-36929
Proposed Wellbore

16" Conductor @ 40'

14-3/4" Hole Size
11-3/4" 42# H-40 STC @ 650'
Cement to Surface w/ 350 sx

TOC @ 4700'

11" Hole Size
8-5/8" 32# J-55 LTC (Surface to 1406')
8-5/8" 32# NS-80 LTC (1406' to 5142')
8-5/8" 32# HCK-55 LTC (5142' to 5235')
Cement w/ 1315 sx (Circ 121 sx)

KOP @ 8572'
Top KO Plug @ 8300'
Bottom of KO Plug @ 8900'

Existing Plug #2 9050' - 9250'
60 sx

Existing Plug #1 12,350' - 12,650'
110 sx

7-7/8" Hole Size
5-1/2" 17# P110 LTC @ 13,364'

TD 7-7/8" Hole @ 12,650'



EOG Resources, Inc.

Lea County

Pitchblende 27 Fed

1R

OH

HOBBS OCD

MAY 02 2011

RECEIVED

Plan: Plan #1

Pathfinder X & Y Planning Report

11 January, 2011

PATHFINDER
A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1R
Project:	Lea County	TVD Reference:	Cactus #123 @ 3347.20usft (Original Well Elev)
Site:	Pitchblende 27 Fed	MD Reference:	Cactus #123 @ 3347.20usft (Original Well Elev)
Well:	1R	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	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									
Site Position:		Northing:		402,131.500 usft		Latitude:		32° 6' 9.326 N			
From:		Easting:		769,262.900 usft		Longitude:		103° 27' 49.585 W			
Position Uncertainty:		0.00 usft		Slot Radius:		13-3/16 "		Grid Convergence:		0.46 °	

Well	1R					
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 (nT)
	IGRF200510	01/31/11	7.56	60.12	48,628

Design:	Plan #1			
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	355.39

Survey Tool/Program		Date	01/11/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	13,364.19	Plan #1 (OH)	MWD	MWD - Standard	



Pathfinder
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.		Local Co-ordinate Reference:					Well 1R				
Project: Lea County							TVD Reference:		Cactus #123 @ 3347.20usft (Original Well Elev)		
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Well: 1R							North Reference:		Grid		
Wellbore: OH							Survey Calculation Method:		Minimum Curvature		
Design: Plan #1							Database:		EDM 5000.1 Single User Db		
Planned Survey											
MD (usft)	Inc (°)	Azi (°)	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	3,347.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
100.00	0.00	0.00	100.00	3,247.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
200.00	0.00	0.00	200.00	3,147.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
300.00	0.00	0.00	300.00	3,047.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
400.00	0.00	0.00	400.00	2,947.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
500.00	0.00	0.00	500.00	2,847.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
600.00	0.00	0.00	600.00	2,747.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
700.00	0.00	0.00	700.00	2,647.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
800.00	0.00	0.00	800.00	2,547.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
900.00	0.00	0.00	900.00	2,447.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,000.00	0.00	0.00	1,000.00	2,347.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,100.00	0.00	0.00	1,100.00	2,247.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,200.00	0.00	0.00	1,200.00	2,147.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,300.00	0.00	0.00	1,300.00	2,047.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,400.00	0.00	0.00	1,400.00	1,947.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,500.00	0.00	0.00	1,500.00	1,847.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,600.00	0.00	0.00	1,600.00	1,747.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,700.00	0.00	0.00	1,700.00	1,647.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,800.00	0.00	0.00	1,800.00	1,547.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
1,900.00	0.00	0.00	1,900.00	1,447.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,000.00	0.00	0.00	2,000.00	1,347.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,100.00	0.00	0.00	2,100.00	1,247.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,200.00	0.00	0.00	2,200.00	1,147.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,300.00	0.00	0.00	2,300.00	1,047.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,400.00	0.00	0.00	2,400.00	947.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,500.00	0.00	0.00	2,500.00	847.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,600.00	0.00	0.00	2,600.00	747.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	



Pathfinder
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1R
Project:	Lea County	TVD Reference:	Cactus #123 @ 3347.20usft (Original Well Elev)
Site:	Pitchblende 27 Fed	MD Reference:	Cactus #123 @ 3347.20usft (Original Well Elev)
Well:	1R	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (%)	Azi (°)	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	647.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,800.00	0.00	0.00	2,800.00	547.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
2,900.00	0.00	0.00	2,900.00	447.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,000.00	0.00	0.00	3,000.00	347.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,100.00	0.00	0.00	3,100.00	247.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,200.00	0.00	0.00	3,200.00	147.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,300.00	0.00	0.00	3,300.00	47.20	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,400.00	0.00	0.00	3,400.00	-52.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,500.00	0.00	0.00	3,500.00	-152.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,600.00	0.00	0.00	3,600.00	-252.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,700.00	0.00	0.00	3,700.00	-352.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,800.00	0.00	0.00	3,800.00	-452.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
3,900.00	0.00	0.00	3,900.00	-552.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,000.00	0.00	0.00	4,000.00	-652.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,100.00	0.00	0.00	4,100.00	-752.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,200.00	0.00	0.00	4,200.00	-852.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,300.00	0.00	0.00	4,300.00	-952.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,400.00	0.00	0.00	4,400.00	-1,052.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,500.00	0.00	0.00	4,500.00	-1,152.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,600.00	0.00	0.00	4,600.00	-1,252.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,700.00	0.00	0.00	4,700.00	-1,352.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,800.00	0.00	0.00	4,800.00	-1,452.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
4,900.00	0.00	0.00	4,900.00	-1,552.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,000.00	0.00	0.00	5,000.00	-1,652.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,100.00	0.00	0.00	5,100.00	-1,752.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,200.00	0.00	0.00	5,200.00	-1,852.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,300.00	0.00	0.00	5,300.00	-1,952.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	



Pathfinder
Pathfinder X & Y Planning Report



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5,400.00	0.00	0.00	5,400.00	-2,052.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,500.00	0.00	0.00	5,500.00	-2,152.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,600.00	0.00	0.00	5,600.00	-2,252.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,700.00	0.00	0.00	5,700.00	-2,352.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,800.00	0.00	0.00	5,800.00	-2,452.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
5,900.00	0.00	0.00	5,900.00	-2,552.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,000.00	0.00	0.00	6,000.00	-2,652.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,100.00	0.00	0.00	6,100.00	-2,752.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,200.00	0.00	0.00	6,200.00	-2,852.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,300.00	0.00	0.00	6,300.00	-2,952.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,400.00	0.00	0.00	6,400.00	-3,052.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,500.00	0.00	0.00	6,500.00	-3,152.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,600.00	0.00	0.00	6,600.00	-3,252.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,700.00	0.00	0.00	6,700.00	-3,352.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,800.00	0.00	0.00	6,800.00	-3,452.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
6,900.00	0.00	0.00	6,900.00	-3,552.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,000.00	0.00	0.00	7,000.00	-3,652.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,100.00	0.00	0.00	7,100.00	-3,752.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,200.00	0.00	0.00	7,200.00	-3,852.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,300.00	0.00	0.00	7,300.00	-3,952.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,400.00	0.00	0.00	7,400.00	-4,052.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,500.00	0.00	0.00	7,500.00	-4,152.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,600.00	0.00	0.00	7,600.00	-4,252.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,700.00	0.00	0.00	7,700.00	-4,352.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,800.00	0.00	0.00	7,800.00	-4,452.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
7,900.00	0.00	0.00	7,900.00	-4,552.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	
8,000.00	0.00	0.00	8,000.00	-4,652.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90	



Pathfinder
Pathfinder X & Y Planning Report



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

Local Co-ordinate Reference: Well 1R
TVD Reference: Cactus #123 @ 3347.20usft (Original Well Elev)
MD Reference: Cactus #123 @ 3347.20usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	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	-4,752.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,200.00	0.00	0.00	8,200.00	-4,852.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,300.00	0.00	0.00	8,300.00	-4,952.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,400.00	0.00	0.00	8,400.00	-5,052.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,500.00	0.00	0.00	8,500.00	-5,152.80	0.00	0.00	0.00	0.00	402,131.50	769,262.90
8,572.50	0.00	0.00	8,572.50	-5,225.30	0.00	0.00	0.00	0.00	402,131.50	769,262.90
KOP-8572.50°MD,0.00°INC,0.00°AZI,8572.50°TVD										
8,575.00	0.30	355.39	8,575.00	-5,227.80	0.01	0.00	0.01	12.00	402,131.51	769,262.90
8,600.00	3.30	355.39	8,599.98	-5,252.78	0.79	-0.06	0.79	12.00	402,132.29	769,262.84
8,625.00	6.30	355.39	8,624.89	-5,277.69	2.87	-0.23	2.88	12.00	402,134.37	769,262.67
8,650.00	9.30	355.39	8,649.66	-5,302.46	6.26	-0.50	6.28	12.00	402,137.76	769,262.40
8,675.00	12.30	355.39	8,674.21	-5,327.01	10.92	-0.88	10.96	12.00	402,142.42	769,262.02
8,700.00	15.30	355.39	8,698.49	-5,351.29	16.87	-1.36	16.92	12.00	402,148.37	769,261.54
8,725.00	18.30	355.39	8,722.42	-5,375.22	24.07	-1.94	24.15	12.00	402,155.57	769,260.96
8,750.00	21.30	355.39	8,745.94	-5,398.74	32.51	-2.62	32.61	12.00	402,164.01	769,260.28
8,775.00	24.30	355.39	8,768.98	-5,421.78	42.16	-3.40	42.30	12.00	402,173.66	769,259.50
8,800.00	27.30	355.39	8,791.49	-5,444.29	53.01	-4.27	53.18	12.00	402,184.51	769,258.63
8,825.00	30.30	355.39	8,813.40	-5,466.20	65.01	-5.24	65.22	12.00	402,196.51	769,257.66
8,850.00	33.30	355.39	8,834.64	-5,487.44	78.14	-6.30	78.39	12.00	402,209.64	769,256.60
8,875.00	36.30	355.39	8,855.17	-5,507.97	92.36	-7.45	92.66	12.00	402,223.86	769,255.45
8,900.00	39.30	355.39	8,874.92	-5,527.72	107.63	-8.68	107.98	12.00	402,239.13	769,254.22
8,925.00	42.30	355.39	8,893.84	-5,546.64	123.91	-9.99	124.31	12.00	402,255.41	769,252.91
8,950.00	45.30	355.39	8,911.89	-5,564.69	141.15	-11.38	141.61	12.00	402,272.65	769,251.52
8,975.00	48.30	355.39	8,929.00	-5,581.80	159.31	-12.85	159.83	12.00	402,290.81	769,250.05
9,000.00	51.30	355.39	8,945.14	-5,597.94	178.34	-14.38	178.92	12.00	402,309.84	769,248.52
9,025.00	54.30	355.39	8,960.25	-5,613.05	198.19	-15.98	198.83	12.00	402,329.69	769,246.92
9,050.00	57.30	355.39	8,974.30	-5,627.10	218.80	-17.64	219.51	12.00	402,350.30	769,245.26

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1R
Project:	Lea County	TVD Reference:	Cactus #123 @ 3347.20usft (Original Well Elev)
Site:	Pitchblende 27 Fed	MD Reference:	Cactus #123 @ 3347.20usft (Original Well Elev)
Well:	1R	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
9,075.00	60.30	355.39	8,987.25	-5,640.05	240.11	-19.36	240.89	12.00	402,371.61	769,243.54	
9,100.00	63.30	355.39	8,999.07	-5,651.87	262.06	-21.13	262.92	12.00	402,393.56	769,241.77	
9,125.00	66.30	355.39	9,009.71	-5,662.51	284.61	-22.95	285.53	12.00	402,416.11	769,239.95	
9,150.00	69.29	355.39	9,019.16	-5,671.96	307.68	-24.81	308.68	12.00	402,439.18	769,238.09	
9,175.00	72.29	355.39	9,027.38	-5,680.18	331.21	-26.71	332.28	12.00	402,462.71	769,236.19	
9,200.00	75.29	355.39	9,034.36	-5,687.16	355.13	-28.64	356.29	12.00	402,486.63	769,234.26	
9,225.00	78.29	355.39	9,040.07	-5,692.87	379.39	-30.59	380.62	12.00	402,510.89	769,232.31	
9,250.00	81.29	355.39	9,044.50	-5,697.30	403.91	-32.57	405.22	12.00	402,535.41	769,230.33	
9,275.00	84.29	355.39	9,047.63	-5,700.43	428.63	-34.56	430.02	12.00	402,560.13	769,228.34	
9,300.00	87.29	355.39	9,049.47	-5,702.27	453.48	-36.57	454.95	12.00	402,584.98	769,226.33	
9,322.56	90.00	355.39	9,050.00	-5,702.80	475.96	-38.38	477.50	12.00	402,607.46	769,224.52	
EOC-9322.56°MD,90.00°INC,355.39°AZI,9050.00°TVD											
9,400.00	90.00	355.39	9,050.00	-5,702.80	553.15	-44.60	554.94	0.00	402,684.65	769,218.30	
9,500.00	90.00	355.39	9,050.00	-5,702.80	652.83	-52.64	654.94	0.00	402,784.33	769,210.26	
9,600.00	90.00	355.39	9,050.00	-5,702.80	752.50	-60.68	754.94	0.00	402,884.00	769,202.22	
9,700.00	90.00	355.39	9,050.00	-5,702.80	852.18	-68.71	854.94	0.00	402,983.68	769,194.19	
9,800.00	90.00	355.39	9,050.00	-5,702.80	951.86	-76.75	954.94	0.00	403,083.36	769,186.15	
9,900.00	90.00	355.39	9,050.00	-5,702.80	1,051.53	-84.79	1,054.94	0.00	403,183.03	769,178.11	
10,000.00	90.00	355.39	9,050.00	-5,702.80	1,151.21	-92.83	1,154.94	0.00	403,282.71	769,170.07	
10,100.00	90.00	355.39	9,050.00	-5,702.80	1,250.88	-100.86	1,254.94	0.00	403,382.38	769,162.04	
10,200.00	90.00	355.39	9,050.00	-5,702.80	1,350.56	-108.90	1,354.94	0.00	403,482.06	769,154.00	
10,300.00	90.00	355.39	9,050.00	-5,702.80	1,450.24	-116.94	1,454.94	0.00	403,581.74	769,145.96	
10,400.00	90.00	355.39	9,050.00	-5,702.80	1,549.91	-124.98	1,554.94	0.00	403,681.41	769,137.92	
10,500.00	90.00	355.39	9,050.00	-5,702.80	1,649.59	-133.01	1,654.94	0.00	403,781.09	769,129.89	
10,600.00	90.00	355.39	9,050.00	-5,702.80	1,749.27	-141.05	1,754.94	0.00	403,880.77	769,121.85	
10,700.00	90.00	355.39	9,050.00	-5,702.80	1,848.94	-149.09	1,854.94	0.00	403,980.44	769,113.81	
10,800.00	90.00	355.39	9,050.00	-5,702.80	1,948.62	-157.12	1,954.94	0.00	404,080.12	769,105.78	



Pathfinder
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well 1R
Project:	Lea County	TVD Reference:	Cactus #123 @ 3347.20usft (Original Well Elev)
Site:	Pitchblende 27 Fed	MD Reference:	Cactus #123 @ 3347.20usft (Original Well Elev)
Well:	1R	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
10,900.00	90.00	355.39	9,050.00	-5,702.80	2,048.30	-165.16	2,054.94	0.00	404,179.80	769,097.74	
11,000.00	90.00	355.39	9,050.00	-5,702.80	2,147.97	-173.20	2,154.94	0.00	404,279.47	769,089.70	
11,100.00	90.00	355.39	9,050.00	-5,702.80	2,247.65	-181.24	2,254.94	0.00	404,379.15	769,081.66	
11,200.00	90.00	355.39	9,050.00	-5,702.80	2,347.33	-189.27	2,354.94	0.00	404,478.83	769,073.63	
11,300.00	90.00	355.39	9,050.00	-5,702.80	2,447.00	-197.31	2,454.94	0.00	404,578.50	769,065.59	
11,400.00	90.00	355.39	9,050.00	-5,702.80	2,546.68	-205.35	2,554.94	0.00	404,678.18	769,057.55	
11,500.00	90.00	355.39	9,050.00	-5,702.80	2,646.36	-213.39	2,654.94	0.00	404,777.86	769,049.51	
11,600.00	90.00	355.39	9,050.00	-5,702.80	2,746.03	-221.42	2,754.94	0.00	404,877.53	769,041.48	
11,700.00	90.00	355.39	9,050.00	-5,702.80	2,845.71	-229.46	2,854.94	0.00	404,977.21	769,033.44	
11,800.00	90.00	355.39	9,050.00	-5,702.80	2,945.39	-237.50	2,954.94	0.00	405,076.89	769,025.40	
11,900.00	90.00	355.39	9,050.00	-5,702.80	3,045.06	-245.53	3,054.94	0.00	405,176.56	769,017.37	
12,000.00	90.00	355.39	9,050.00	-5,702.80	3,144.74	-253.57	3,154.94	0.00	405,276.24	769,009.33	
12,100.00	90.00	355.39	9,050.00	-5,702.80	3,244.41	-261.61	3,254.94	0.00	405,375.91	769,001.29	
12,200.00	90.00	355.39	9,050.00	-5,702.80	3,344.09	-269.65	3,354.94	0.00	405,475.59	768,993.25	
12,300.00	90.00	355.39	9,050.00	-5,702.80	3,443.77	-277.68	3,454.94	0.00	405,575.27	768,985.22	
12,400.00	90.00	355.39	9,050.00	-5,702.80	3,543.44	-285.72	3,554.94	0.00	405,674.94	768,977.18	
12,500.00	90.00	355.39	9,050.00	-5,702.80	3,643.12	-293.76	3,654.94	0.00	405,774.62	768,969.14	
12,600.00	90.00	355.39	9,050.00	-5,702.80	3,742.80	-301.80	3,754.94	0.00	405,874.30	768,961.10	
12,700.00	90.00	355.39	9,050.00	-5,702.80	3,842.47	-309.83	3,854.94	0.00	405,973.97	768,953.07	
12,800.00	90.00	355.39	9,050.00	-5,702.80	3,942.15	-317.87	3,954.94	0.00	406,073.65	768,945.03	
12,900.00	90.00	355.39	9,050.00	-5,702.80	4,041.83	-325.91	4,054.94	0.00	406,173.33	768,936.99	
13,000.00	90.00	355.39	9,050.00	-5,702.80	4,141.50	-333.94	4,154.94	0.00	406,273.00	768,928.96	
13,100.00	90.00	355.39	9,050.00	-5,702.80	4,241.18	-341.98	4,254.94	0.00	406,372.68	768,920.92	
13,200.00	90.00	355.39	9,050.00	-5,702.80	4,340.86	-350.02	4,354.94	0.00	406,472.36	768,912.88	
13,300.00	90.00	355.39	9,050.00	-5,702.80	4,440.53	-358.06	4,454.94	0.00	406,572.03	768,904.84	
13,364.19	90.00	355.39	9,050.00	-5,702.80	4,504.51	-363.22	4,519.13	0.00	406,636.01	768,899.68	
TD at 13364.19 - PBHL (P27)											



Pathfinder
Pathfinder X & Y Planning Report



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

Local Co-ordinate Reference: Well 1R
TVD Reference: Cactus #123 @ 3347.20usft (Original Well Elev)
MD Reference: Cactus #123 @ 3347.20usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,572.50	8,572.50	0.00	0.00	KOP-8572.50'MD,0.00°INC,0.00°AZI,8572.50'TVD
9,322.56	9,050.00	475.96	-38.38	EOC-9322.56'MD,90.00°INC,355.39°AZI,9050.00'TVD
13,364.19	9,050.00	4,504.51	-363.22	TD at 13364.19

Checked By: _____ Approved By: _____ Date: _____



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



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

PATHFINDER
 A Schlumberger Company

Magnetic Field
 Strength: 48627.6snT
 Dip Angle: 60.12°
 Date: 01/31/2011
 Model: IGRF200510

WELL DETAILS: 1R

Ground Elevation: 3317.20
 RKB Elevation: Cactus #123 @ 3347.20usft (Original Well Elev)
 Rig Name: Original Well Elev

+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	
8572.50	0.00	0.00	8572.50	0.00	0.00	0.00	0.00	0.00	
9322.56	90.00	355.39	9050.00	475.96	-38.38	12.00	355.39	477.50	
13364.19	90.00	355.39	9050.00	4504.51	-363.22	0.00	0.00	4519.13	PBHL (P27)

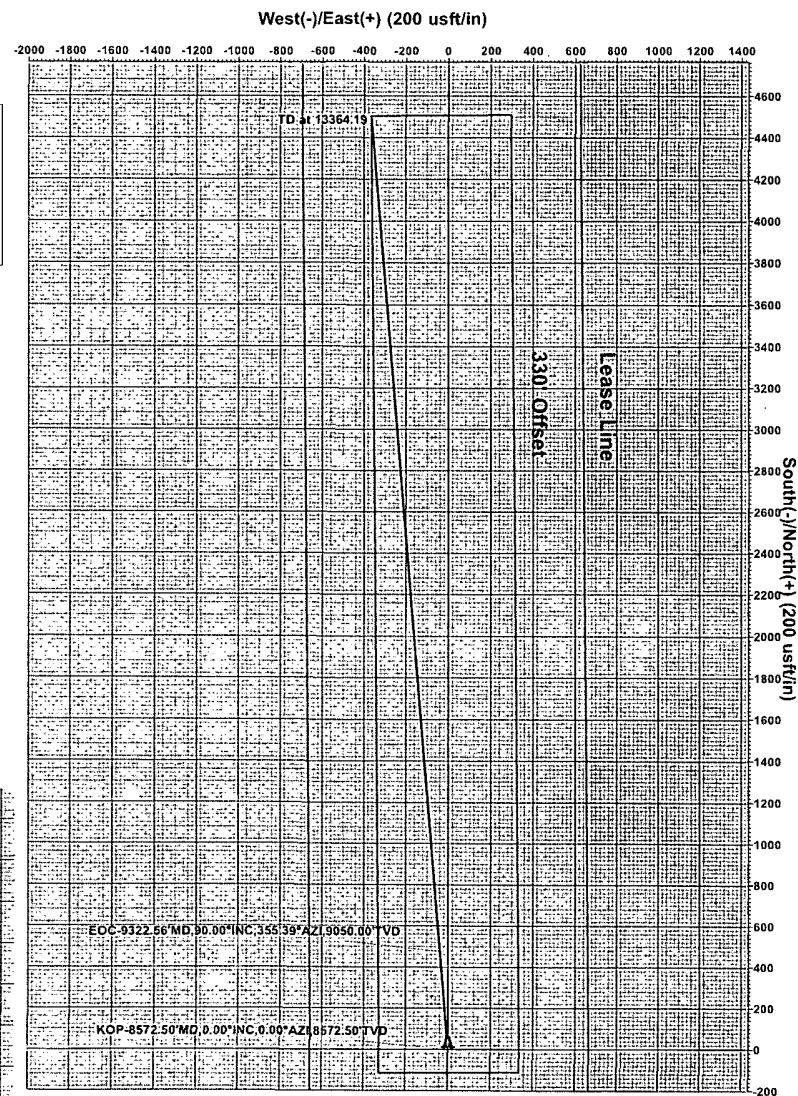
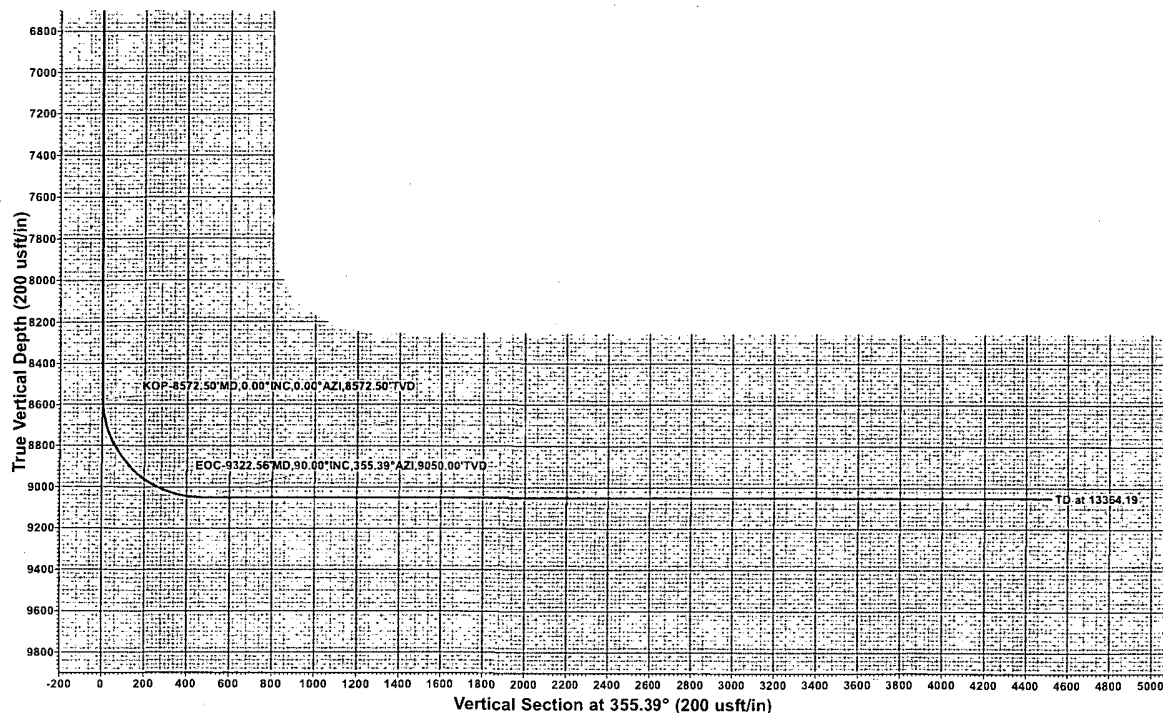
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (P27)	9050.00	4504.50	-363.40	406636.000	768899.500	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

LEGEND

• Plan #1



Plan: Plan #1 (1R/OH)

Created By: Nate Bingham Date: 16:11, January 11 2011

Checked: _____ Date: _____