



RECEIVED

FEB 18 2010

HOBBSD

EOG Resources, Inc.

Lea County

Horse "30" State

#1H

OH

Plan: Plan #1

Pathfinder X & Y Planning Report

05 February, 2010

PATHFINDER

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3345 00ft (Cactus 123)
Site:	Horse "30" State	MD Reference:	WELL @ 3345 00ft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

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		Horse "30" State			
Site Position:		Northing:		399,287.600 ft	
From:	Map	Easting:		757,667.100 ft	
Position Uncertainty:		Slot Radius:		"	
				Latitude:	
				32° 5' 42.089 N	
				Longitude:	
				103° 30' 4.638 W	
				Grid Convergence:	
				0.44 °	

Well:	#1H					
Well Position	+N/-S	0.00 ft	Northing:	399,287.600 ft	Latitude:	32° 5' 42.089 N
	+E/-W	0.00 ft	Easting:	757,667.100 ft	Longitude:	103° 30' 4.638 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,320.00 ft	

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/05/2010	7.71	60.11	48,682

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0 00	0 00	0 00	356.25

Survey Tool Program		Date: 02/05/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0 00	13,923 26	Plan #1 (OH)	MWD	MWD - Standard

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3345.00ft (Cactus 123)
Site:	Horse "30" State	MD Reference:	WELL @ 3345.00ft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	-3,345.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
100.00	0.00	0.00	100.00	-3,245.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
200.00	0.00	0.00	200.00	-3,145.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
300.00	0.00	0.00	300.00	-3,045.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
400.00	0.00	0.00	400.00	-2,945.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
500.00	0.00	0.00	500.00	-2,845.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
600.00	0.00	0.00	600.00	-2,745.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
700.00	0.00	0.00	700.00	-2,645.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
800.00	0.00	0.00	800.00	-2,545.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
900.00	0.00	0.00	900.00	-2,445.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,000.00	0.00	0.00	1,000.00	-2,345.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,100.00	0.00	0.00	1,100.00	-2,245.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,200.00	0.00	0.00	1,200.00	-2,145.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,300.00	0.00	0.00	1,300.00	-2,045.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,400.00	0.00	0.00	1,400.00	-1,945.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,500.00	0.00	0.00	1,500.00	-1,845.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,600.00	0.00	0.00	1,600.00	-1,745.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,700.00	0.00	0.00	1,700.00	-1,645.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,800.00	0.00	0.00	1,800.00	-1,545.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
1,900.00	0.00	0.00	1,900.00	-1,445.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
2,000.00	0.00	0.00	2,000.00	-1,345.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
2,100.00	0.00	0.00	2,100.00	-1,245.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
2,200.00	0.00	0.00	2,200.00	-1,145.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
2,300.00	0.00	0.00	2,300.00	-1,045.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
2,400.00	0.00	0.00	2,400.00	-945.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
2,500.00	0.00	0.00	2,500.00	-845.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
2,600.00	0.00	0.00	2,600.00	-745.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3345.00ft (Cactus 123)
Site:	Horse "30" State	MD Reference:	WELL @ 3345.00ft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
2,700.00	0.00	0.00	2,700.00	-645.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
2,800.00	0.00	0.00	2,800.00	-545.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
2,900.00	0.00	0.00	2,900.00	-445.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,000.00	0.00	0.00	3,000.00	-345.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,100.00	0.00	0.00	3,100.00	-245.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,200.00	0.00	0.00	3,200.00	-145.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,300.00	0.00	0.00	3,300.00	-45.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,400.00	0.00	0.00	3,400.00	55.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,500.00	0.00	0.00	3,500.00	155.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,600.00	0.00	0.00	3,600.00	255.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,700.00	0.00	0.00	3,700.00	355.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,800.00	0.00	0.00	3,800.00	455.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
3,900.00	0.00	0.00	3,900.00	555.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,000.00	0.00	0.00	4,000.00	655.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,100.00	0.00	0.00	4,100.00	755.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,200.00	0.00	0.00	4,200.00	855.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,300.00	0.00	0.00	4,300.00	955.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,400.00	0.00	0.00	4,400.00	1,055.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,500.00	0.00	0.00	4,500.00	1,155.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,600.00	0.00	0.00	4,600.00	1,255.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,700.00	0.00	0.00	4,700.00	1,355.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,800.00	0.00	0.00	4,800.00	1,455.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
4,900.00	0.00	0.00	4,900.00	1,555.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
5,000.00	0.00	0.00	5,000.00	1,655.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
5,100.00	0.00	0.00	5,100.00	1,755.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
5,200.00	0.00	0.00	5,200.00	1,855.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	
5,300.00	0.00	0.00	5,300.00	1,955.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3345.00ft (Cactus 123)
Site:	Horse "30" State	MD Reference:	WELL @ 3345.00ft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V-Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
5,400.00	0.00	0.00	5,400.00	2,055.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
5,500.00	0.00	0.00	5,500.00	2,155.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
5,600.00	0.00	0.00	5,600.00	2,255.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
5,700.00	0.00	0.00	5,700.00	2,355.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
5,800.00	0.00	0.00	5,800.00	2,455.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
5,900.00	0.00	0.00	5,900.00	2,555.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,000.00	0.00	0.00	6,000.00	2,655.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,100.00	0.00	0.00	6,100.00	2,755.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,200.00	0.00	0.00	6,200.00	2,855.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,300.00	0.00	0.00	6,300.00	2,955.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,400.00	0.00	0.00	6,400.00	3,055.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,500.00	0.00	0.00	6,500.00	3,155.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,600.00	0.00	0.00	6,600.00	3,255.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,700.00	0.00	0.00	6,700.00	3,355.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,800.00	0.00	0.00	6,800.00	3,455.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
6,900.00	0.00	0.00	6,900.00	3,555.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,000.00	0.00	0.00	7,000.00	3,655.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,100.00	0.00	0.00	7,100.00	3,755.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,200.00	0.00	0.00	7,200.00	3,855.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,300.00	0.00	0.00	7,300.00	3,955.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,400.00	0.00	0.00	7,400.00	4,055.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,500.00	0.00	0.00	7,500.00	4,155.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,600.00	0.00	0.00	7,600.00	4,255.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,700.00	0.00	0.00	7,700.00	4,355.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,800.00	0.00	0.00	7,800.00	4,455.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
7,900.00	0.00	0.00	7,900.00	4,555.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,000.00	0.00	0.00	8,000.00	4,655.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10

Company:	EOG Resources, Inc	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3345.00ft (Cactus 123)
Site:	Horse "30" State	MD Reference:	WELL @ 3345.00ft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,100.00	0.00	0.00	8,100.00	4,755.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,200.00	0.00	0.00	8,200.00	4,855.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,300.00	0.00	0.00	8,300.00	4,955.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,400.00	0.00	0.00	8,400.00	5,055.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,500.00	0.00	0.00	8,500.00	5,155.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,600.00	0.00	0.00	8,600.00	5,255.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,700.00	0.00	0.00	8,700.00	5,355.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,800.00	0.00	0.00	8,800.00	5,455.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
8,900.00	0.00	0.00	8,900.00	5,555.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
9,000.00	0.00	0.00	9,000.00	5,655.00	0.00	0.00	0.00	0.00	399,287.60	757,667.10
9,022.50	0.00	0.00	9,022.50	5,677.50	0.00	0.00	0.00	0.00	399,287.60	757,667.10
9,025.00	0.30	356.25	9,025.00	5,680.00	0.01	0.00	0.01	12.00	399,287.61	757,667.10
9,050.00	3.30	356.25	9,049.98	5,704.98	0.79	-0.05	0.79	12.00	399,288.39	757,667.05
9,075.00	6.30	356.25	9,074.89	5,729.89	2.88	-0.19	2.88	12.00	399,290.48	757,666.91
9,100.00	9.30	356.25	9,099.66	5,754.66	6.26	-0.41	6.28	12.00	399,293.86	757,666.69
9,125.00	12.30	356.25	9,124.21	5,779.21	10.94	-0.72	10.96	12.00	399,298.54	757,666.38
9,150.00	15.30	356.25	9,148.49	5,803.49	16.89	-1.11	16.92	12.00	399,304.49	757,665.99
9,175.00	18.30	356.25	9,172.42	5,827.42	24.09	-1.58	24.15	12.00	399,311.69	757,665.52
9,200.00	21.30	356.25	9,195.94	5,850.94	32.54	-2.13	32.61	12.00	399,320.14	757,664.97
9,225.00	24.30	356.25	9,218.98	5,873.98	42.21	-2.77	42.30	12.00	399,329.81	757,664.33
9,250.00	27.30	356.25	9,241.49	5,896.49	53.06	-3.48	53.18	12.00	399,340.66	757,663.62
9,275.00	30.30	356.25	9,263.40	5,918.40	65.08	-4.27	65.22	12.00	399,352.68	757,662.83
9,300.00	33.30	356.25	9,284.64	5,939.64	78.22	-5.13	78.39	12.00	399,365.82	757,661.97
9,325.00	36.30	356.25	9,305.17	5,960.17	92.46	-6.06	92.66	12.00	399,380.06	757,661.04
9,350.00	39.30	356.25	9,324.92	5,979.92	107.74	-7.06	107.98	12.00	399,395.34	757,660.04
9,375.00	42.30	356.25	9,343.84	5,998.84	124.04	-8.13	124.31	12.00	399,411.64	757,658.97
9,400.00	45.30	356.25	9,361.89	6,016.89	141.31	-9.26	141.61	12.00	399,428.91	757,657.84

Company:	EOG Resources, Inc	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3345.00ft (Cactus 123)
Site:	Horse "30" State	MD Reference:	WELL @ 3345.00ft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
9,425.00	48.30	356.25	9,379.00	6,034.00	159.49	-10.45	159.83	12.00	399,447.09	757,656.65	
9,450.00	51.30	356.25	9,395.14	6,050.14	178.54	-11.70	178.92	12.00	399,466.14	757,655.40	
9,475.00	54.30	356.25	9,410.25	6,065.25	198.41	-13.00	198.83	12.00	399,486.01	757,654.10	
9,500.00	57.30	356.25	9,424.30	6,079.30	219.04	-14.36	219.51	12.00	399,506.64	757,652.74	
9,525.00	60.30	356.25	9,437.25	6,092.25	240.37	-15.75	240.89	12.00	399,527.97	757,651.35	
9,550.00	63.30	356.25	9,449.07	6,104.07	262.35	-17.20	262.92	12.00	399,549.95	757,649.90	
9,575.00	66.30	356.25	9,459.71	6,114.71	284.92	-18.67	285.53	12.00	399,572.52	757,648.43	
9,600.00	69.29	356.25	9,469.16	6,124.16	308.02	-20.19	308.68	12.00	399,595.62	757,646.91	
9,625.00	72.29	356.25	9,477.38	6,132.38	331.57	-21.73	332.28	12.00	399,619.17	757,645.37	
9,650.00	75.29	356.25	9,484.36	6,139.36	355.52	-23.30	356.29	12.00	399,643.12	757,643.80	
9,675.00	78.29	356.25	9,490.07	6,145.07	379.81	-24.89	380.62	12.00	399,667.41	757,642.21	
9,700.00	81.29	356.25	9,494.50	6,149.50	404.36	-26.50	405.22	12.00	399,691.96	757,640.60	
9,725.00	84.29	356.25	9,497.63	6,152.63	429.10	-28.12	430.02	12.00	399,716.70	757,638.98	
9,750.00	87.29	356.25	9,499.47	6,154.47	453.98	-29.76	454.95	12.00	399,741.58	757,637.34	
9,772.56	90.00	356.25	9,500.00	6,155.00	476.48	-31.23	477.50	12.00	399,764.08	757,635.87	
9,800.00	90.00	356.25	9,500.00	6,155.00	503.86	-33.02	504.94	0.00	399,791.46	757,634.08	
9,900.00	90.00	356.25	9,500.00	6,155.00	603.65	-39.57	604.94	0.00	399,891.25	757,627.53	
10,000.00	90.00	356.25	9,500.00	6,155.00	703.44	-46.11	704.94	0.00	399,991.04	757,620.99	
10,100.00	90.00	356.25	9,500.00	6,155.00	803.22	-52.65	804.94	0.00	400,090.82	757,614.45	
10,200.00	90.00	356.25	9,500.00	6,155.00	903.01	-59.19	904.94	0.00	400,190.61	757,607.91	
10,300.00	90.00	356.25	9,500.00	6,155.00	1,002.79	-65.73	1,004.94	0.00	400,290.39	757,601.37	
10,400.00	90.00	356.25	9,500.00	6,155.00	1,102.58	-72.27	1,104.94	0.00	400,390.18	757,594.83	
10,500.00	90.00	356.25	9,500.00	6,155.00	1,202.36	-78.81	1,204.94	0.00	400,489.96	757,588.29	
10,600.00	90.00	356.25	9,500.00	6,155.00	1,302.15	-85.35	1,304.94	0.00	400,589.75	757,581.75	
10,700.00	90.00	356.25	9,500.00	6,155.00	1,401.94	-91.89	1,404.94	0.00	400,689.54	757,575.21	
10,800.00	90.00	356.25	9,500.00	6,155.00	1,501.72	-98.43	1,504.94	0.00	400,789.32	757,568.67	
10,900.00	90.00	356.25	9,500.00	6,155.00	1,601.51	-104.97	1,604.94	0.00	400,889.11	757,562.13	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3345 00ft (Cactus 123)
Site:	Horse "30" State	MD Reference:	WELL @ 3345:00ft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
11,000.00	90.00	356.25	9,500.00	6,155.00	1,701.29	-111.51	1,704.94	0.00	400,988.89	757,555.59
11,100.00	90.00	356.25	9,500.00	6,155.00	1,801.08	-118.05	1,804.94	0.00	401,088.68	757,549.05
11,200.00	90.00	356.25	9,500.00	6,155.00	1,900.87	-124.59	1,904.94	0.00	401,188.47	757,542.51
11,300.00	90.00	356.25	9,500.00	6,155.00	2,000.65	-131.13	2,004.94	0.00	401,288.25	757,535.97
11,400.00	90.00	356.25	9,500.00	6,155.00	2,100.44	-137.67	2,104.94	0.00	401,388.04	757,529.43
11,500.00	90.00	356.25	9,500.00	6,155.00	2,200.22	-144.21	2,204.94	0.00	401,487.82	757,522.89
11,600.00	90.00	356.25	9,500.00	6,155.00	2,300.01	-150.75	2,304.94	0.00	401,587.61	757,516.35
11,700.00	90.00	356.25	9,500.00	6,155.00	2,399.80	-157.29	2,404.94	0.00	401,687.40	757,509.81
11,800.00	90.00	356.25	9,500.00	6,155.00	2,499.58	-163.83	2,504.94	0.00	401,787.18	757,503.27
11,900.00	90.00	356.25	9,500.00	6,155.00	2,599.37	-170.37	2,604.94	0.00	401,886.97	757,496.73
12,000.00	90.00	356.25	9,500.00	6,155.00	2,699.15	-176.91	2,704.94	0.00	401,986.75	757,490.19
12,100.00	90.00	356.25	9,500.00	6,155.00	2,798.94	-183.45	2,804.94	0.00	402,086.54	757,483.65
12,200.00	90.00	356.25	9,500.00	6,155.00	2,898.73	-189.99	2,904.94	0.00	402,186.33	757,477.11
12,300.00	90.00	356.25	9,500.00	6,155.00	2,998.51	-196.53	3,004.94	0.00	402,286.11	757,470.57
12,400.00	90.00	356.25	9,500.00	6,155.00	3,098.30	-203.07	3,104.94	0.00	402,385.90	757,464.03
12,500.00	90.00	356.25	9,500.00	6,155.00	3,198.08	-209.61	3,204.94	0.00	402,485.68	757,457.49
12,600.00	90.00	356.25	9,500.00	6,155.00	3,297.87	-216.15	3,304.94	0.00	402,585.47	757,450.95
12,700.00	90.00	356.25	9,500.00	6,155.00	3,397.65	-222.69	3,404.94	0.00	402,685.25	757,444.41
12,800.00	90.00	356.25	9,500.00	6,155.00	3,497.44	-229.23	3,504.94	0.00	402,785.04	757,437.87
12,900.00	90.00	356.25	9,500.00	6,155.00	3,597.23	-235.77	3,604.94	0.00	402,884.83	757,431.33
13,000.00	90.00	356.25	9,500.00	6,155.00	3,697.01	-242.31	3,704.94	0.00	402,984.61	757,424.79
13,100.00	90.00	356.25	9,500.00	6,155.00	3,796.80	-248.86	3,804.94	0.00	403,084.40	757,418.24
13,200.00	90.00	356.25	9,500.00	6,155.00	3,896.58	-255.40	3,904.94	0.00	403,184.18	757,411.70
13,300.00	90.00	356.25	9,500.00	6,155.00	3,996.37	-261.94	4,004.94	0.00	403,283.97	757,405.16
13,400.00	90.00	356.25	9,500.00	6,155.00	4,096.16	-268.48	4,104.94	0.00	403,383.76	757,398.62
13,500.00	90.00	356.25	9,500.00	6,155.00	4,195.94	-275.02	4,204.94	0.00	403,483.54	757,392.08
13,600.00	90.00	356.25	9,500.00	6,155.00	4,295.73	-281.56	4,304.94	0.00	403,583.33	757,385.54

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3345.00ft (Cactus 123)
Site:	Horse "30" State	MD Reference:	WELL @ 3345.00ft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V-Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
13,700.00	90.00	356.25	9,500.00	6,155.00	4,395.51	-288.10	4,404.94	0.00	403,683.11	757,379.00
13,800.00	90.00	356.25	9,500.00	6,155.00	4,495.30	-294.64	4,504.94	0.00	403,782.90	757,372.46
13,900.00	90.00	356.25	9,500.00	6,155.00	4,595.09	-301.18	4,604.94	0.00	403,882.69	757,365.92
13,923.26	90.00	356.25	9,500.00	6,155.00	4,618.29	-302.70	4,628.20	0.00	403,905.89	757,364.40

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(Horse30#1) - plan hits target center - Point	0.00	0.00	9,500.00	4,618.30	-302.60	403,905.900	757,364.500	32° 6' 27.813 N	103° 30' 7.742 W

Checked By: _____ Approved By: _____ Date: _____



Project: Lea County
Site: Horse "30" State
Well: #1H
Wellbore: OH
Plan: Plan #1 (#1H/OH)



Azimuths to Grid North
True North: -0.44°
Magnetic North: 7.27°

PATHFINDER

Magnetic Field
Strength: 48681.9nT
Dip Angle: 60.11°
Date: 02/05/2010
Model: IGRF2010

WELL DETAILS: #1H

Ground Elevation: 3320.00
RKB Elevation: WELL @ 3345.00ft (Cactus 123)
Rig Name: Cactus 123

	+N/-S	+E/-W	Northing	Eastings	Latitude	Longitude	Slot
	0.00	0.00	399287.600	757567.100	32° 5' 42.089 N	103° 30' 4.638 W	

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

SECTION DETAILS

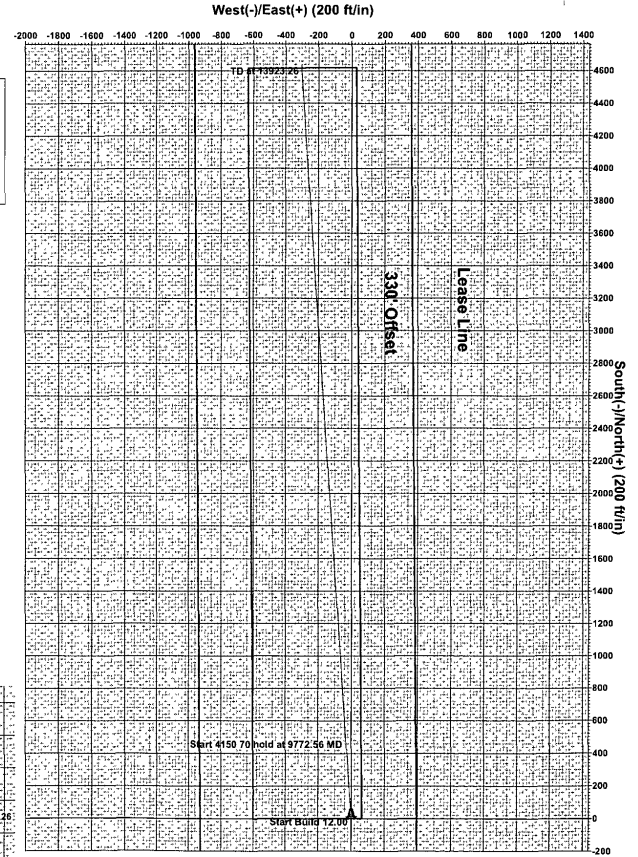
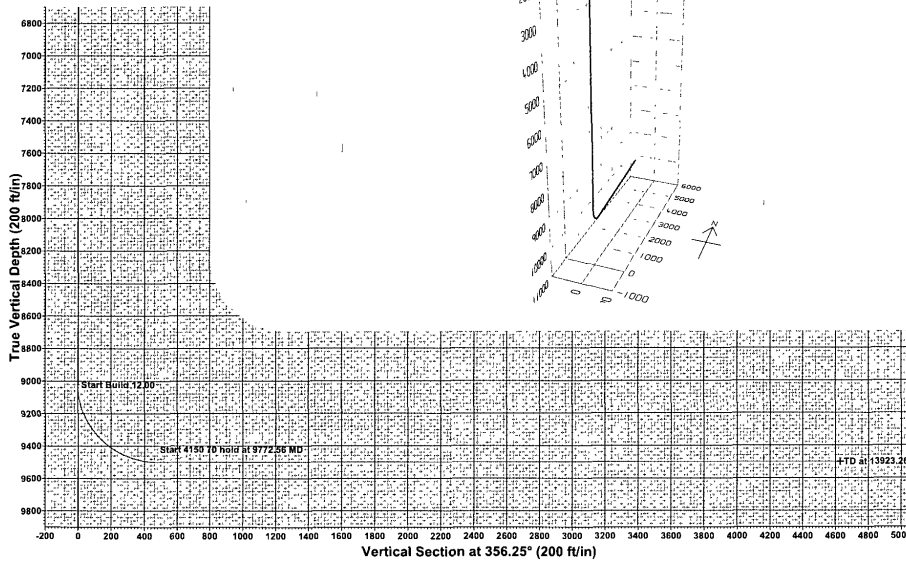
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9022.50	0.00	0.00	9022.50	0.00	0.00	0.00	0.00	0.00	
3	9772.56	90.00	356.25	9500.00	476.48	-31.23	12.00	356.25	477.50	
4	13923.26	90.00	356.25	9500.00	4618.29	-382.70	0.00	0.00	4628.20	PBHL(Horse30#1)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Eastings	Shape
PBHL(Horse30#1)	4618.30	-382.60	403995.900	757364.500		Point

LEGEND

• Plan #1



Plan Plan #1 (#1H/OH)

Created By: Nate Bergham Date: 13:50, February 05 2010
Checked: _____ Date: _____