

30-025-39703



EOG Resources, Inc.

Lea County
Lomas Rojas "26" State Com
#4H
OH

RECEIVED

MAR 05 2010
HOBBSOCD

Plan: Plan #1

Pathfinder X & Y Planning Report

26 February, 2010

PATHFINDER

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Lea County	TVD Reference:	RKBtoGL-19' @ 3347.90ft (Original Well Elev)
Site:	Lomas Rojas "26" State Com	MD Reference:	RKBtoGL-19' @ 3347.90ft (Original Well Elev)
Well:	#4H	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: Lomas Rojas "26" State Com					
Site Position:		Northing:	403,802.800 ft	Latitude:	32° 6' 27.886 N
From:	Map	Easting:	742,610.100 ft	Longitude:	103° 32' 59.279 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.42 °

Well		#4H				
Well Position	+N/-S	0.00 ft	Northing:	399,204.900 ft	Latitude:	32° 5' 42.131 N
	+E/-W	0.00 ft	Easting:	746,147.400 ft	Longitude:	103° 32' 18.550 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,328.90 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	02/26/2010	7.71	60.12	48,703

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		359 57	

Survey Tool Program		Date 02/26/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0 00	13,827.11	Plan #1 (OH)	MWD	MWD - Standard

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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	-3,347.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
100.00	0.00	0.00	100.00	-3,247.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
200.00	0.00	0.00	200.00	-3,147.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
300.00	0.00	0.00	300.00	-3,047.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
400.00	0.00	0.00	400.00	-2,947.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
500.00	0.00	0.00	500.00	-2,847.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
600.00	0.00	0.00	600.00	-2,747.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
700.00	0.00	0.00	700.00	-2,647.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
800.00	0.00	0.00	800.00	-2,547.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
900.00	0.00	0.00	900.00	-2,447.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,000.00	0.00	0.00	1,000.00	-2,347.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,100.00	0.00	0.00	1,100.00	-2,247.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,200.00	0.00	0.00	1,200.00	-2,147.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,300.00	0.00	0.00	1,300.00	-2,047.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,400.00	0.00	0.00	1,400.00	-1,947.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,500.00	0.00	0.00	1,500.00	-1,847.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,600.00	0.00	0.00	1,600.00	-1,747.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,700.00	0.00	0.00	1,700.00	-1,647.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,800.00	0.00	0.00	1,800.00	-1,547.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
1,900.00	0.00	0.00	1,900.00	-1,447.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,000.00	0.00	0.00	2,000.00	-1,347.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,100.00	0.00	0.00	2,100.00	-1,247.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,200.00	0.00	0.00	2,200.00	-1,147.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,300.00	0.00	0.00	2,300.00	-1,047.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,400.00	0.00	0.00	2,400.00	-947.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,500.00	0.00	0.00	2,500.00	-847.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,600.00	0.00	0.00	2,600.00	-747.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	

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2,700.00	0.00	0.00	2,700.00	-647.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,800.00	0.00	0.00	2,800.00	-547.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
2,900.00	0.00	0.00	2,900.00	-447.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,000.00	0.00	0.00	3,000.00	-347.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,100.00	0.00	0.00	3,100.00	-247.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,200.00	0.00	0.00	3,200.00	-147.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,300.00	0.00	0.00	3,300.00	-47.90	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,400.00	0.00	0.00	3,400.00	52.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,500.00	0.00	0.00	3,500.00	152.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,600.00	0.00	0.00	3,600.00	252.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,700.00	0.00	0.00	3,700.00	352.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,800.00	0.00	0.00	3,800.00	452.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
3,900.00	0.00	0.00	3,900.00	552.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,000.00	0.00	0.00	4,000.00	652.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,100.00	0.00	0.00	4,100.00	752.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,200.00	0.00	0.00	4,200.00	852.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,300.00	0.00	0.00	4,300.00	952.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,400.00	0.00	0.00	4,400.00	1,052.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,500.00	0.00	0.00	4,500.00	1,152.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,600.00	0.00	0.00	4,600.00	1,252.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,700.00	0.00	0.00	4,700.00	1,352.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,800.00	0.00	0.00	4,800.00	1,452.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
4,900.00	0.00	0.00	4,900.00	1,552.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,000.00	0.00	0.00	5,000.00	1,652.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,100.00	0.00	0.00	5,100.00	1,752.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,200.00	0.00	0.00	5,200.00	1,852.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,300.00	0.00	0.00	5,300.00	1,952.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	

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5,400.00	0.00	0.00	5,400.00	2,052.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,500.00	0.00	0.00	5,500.00	2,152.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,600.00	0.00	0.00	5,600.00	2,252.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,700.00	0.00	0.00	5,700.00	2,352.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,800.00	0.00	0.00	5,800.00	2,452.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
5,900.00	0.00	0.00	5,900.00	2,552.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,000.00	0.00	0.00	6,000.00	2,652.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,100.00	0.00	0.00	6,100.00	2,752.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,200.00	0.00	0.00	6,200.00	2,852.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,300.00	0.00	0.00	6,300.00	2,952.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,400.00	0.00	0.00	6,400.00	3,052.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,500.00	0.00	0.00	6,500.00	3,152.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,600.00	0.00	0.00	6,600.00	3,252.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,700.00	0.00	0.00	6,700.00	3,352.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,800.00	0.00	0.00	6,800.00	3,452.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
6,900.00	0.00	0.00	6,900.00	3,552.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,000.00	0.00	0.00	7,000.00	3,652.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,100.00	0.00	0.00	7,100.00	3,752.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,200.00	0.00	0.00	7,200.00	3,852.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,300.00	0.00	0.00	7,300.00	3,952.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,400.00	0.00	0.00	7,400.00	4,052.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,500.00	0.00	0.00	7,500.00	4,152.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,600.00	0.00	0.00	7,600.00	4,252.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,700.00	0.00	0.00	7,700.00	4,352.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,800.00	0.00	0.00	7,800.00	4,452.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
7,900.00	0.00	0.00	7,900.00	4,552.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	
8,000.00	0.00	0.00	8,000.00	4,652.10	0.00	0.00	0.00	0.00	399,204.90	746,147.40	

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8,100.00	0.00	0.00	8,100.00	4,752.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,200.00	0.00	0.00	8,200.00	4,852.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,300.00	0.00	0.00	8,300.00	4,952.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,400.00	0.00	0.00	8,400.00	5,052.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,500.00	0.00	0.00	8,500.00	5,152.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,600.00	0.00	0.00	8,600.00	5,252.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,700.00	0.00	0.00	8,700.00	5,352.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,800.00	0.00	0.00	8,800.00	5,452.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,900.00	0.00	0.00	8,900.00	5,552.10	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
8,932.61	0.00	0.00	8,932.61	5,584.71	0.00	0.00	0.00	0.00	0.00	399,204.90	746,147.40
Start Build 12.00											
8,950.00	2.09	359.57	8,950.00	5,602.10	0.32	0.00	0.32	12.00	399,205.22	746,147.40	
8,975.00	5.09	359.57	8,974.94	5,627.04	1.88	-0.01	1.88	12.00	399,206.78	746,147.39	
9,000.00	8.09	359.57	8,999.78	5,651.88	4.75	-0.04	4.75	12.00	399,209.65	746,147.36	
9,025.00	11.09	359.57	9,024.42	5,676.52	8.91	-0.07	8.91	12.00	399,213.81	746,147.33	
9,050.00	14.09	359.57	9,048.82	5,700.92	14.36	-0.11	14.36	12.00	399,219.26	746,147.29	
9,075.00	17.09	359.57	9,072.90	5,725.00	21.07	-0.16	21.07	12.00	399,225.97	746,147.24	
9,100.00	20.09	359.57	9,096.59	5,748.69	29.04	-0.22	29.04	12.00	399,233.94	746,147.18	
9,125.00	23.09	359.57	9,119.84	5,771.94	38.24	-0.29	38.24	12.00	399,243.14	746,147.11	
9,150.00	26.09	359.57	9,142.57	5,794.67	48.64	-0.37	48.64	12.00	399,253.54	746,147.03	
9,175.00	29.09	359.57	9,164.72	5,816.82	60.21	-0.45	60.22	12.00	399,265.11	746,146.95	
9,200.00	32.09	359.57	9,186.24	5,838.34	72.93	-0.55	72.94	12.00	399,277.83	746,146.85	
9,225.00	35.09	359.57	9,207.06	5,859.16	86.76	-0.65	86.76	12.00	399,291.66	746,146.75	
9,250.00	38.09	359.57	9,227.14	5,879.24	101.66	-0.76	101.66	12.00	399,306.56	746,146.64	
9,275.00	41.09	359.57	9,246.40	5,898.50	117.59	-0.88	117.59	12.00	399,322.49	746,146.52	
9,300.00	44.09	359.57	9,264.80	5,916.90	134.50	-1.01	134.51	12.00	399,339.40	746,146.39	
9,325.00	47.09	359.57	9,282.30	5,934.40	152.36	-1.14	152.36	12.00	399,357.26	746,146.26	

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9,350.00	50.09	359.57	9,298.83	5,950.93	171.11	-1.28	171.11	12.00	399,376.01	746,146.12	
9,375.00	53.09	359.57	9,314.37	5,966.47	190.69	-1.43	190.70	12.00	399,395.59	746,145.97	
9,400.00	56.09	359.57	9,328.85	5,980.95	211.06	-1.58	211.07	12.00	399,415.96	746,145.82	
9,425.00	59.09	359.57	9,342.25	5,994.35	232.17	-1.74	232.17	12.00	399,437.07	746,145.66	
9,450.00	62.09	359.57	9,354.53	6,006.63	253.94	-1.91	253.95	12.00	399,458.84	746,145.49	
9,475.00	65.09	359.57	9,366.65	6,017.75	276.33	-2.07	276.34	12.00	399,481.23	746,145.33	
9,500.00	68.09	359.57	9,375.58	6,027.68	299.27	-2.25	299.27	12.00	399,504.17	746,145.15	
9,525.00	71.09	359.57	9,384.30	6,036.40	322.69	-2.42	322.70	12.00	399,527.59	746,144.98	
9,550.00	74.09	359.57	9,391.78	6,043.88	346.54	-2.60	346.55	12.00	399,551.44	746,144.80	
9,575.00	77.09	359.57	9,398.00	6,050.10	370.75	-2.78	370.76	12.00	399,575.65	746,144.62	
9,600.00	80.09	359.57	9,402.95	6,055.05	395.26	-2.97	395.27	12.00	399,600.16	746,144.43	
9,625.00	83.09	359.57	9,406.60	6,058.70	419.98	-3.15	419.99	12.00	399,624.88	746,144.25	
9,650.00	86.09	359.57	9,408.96	6,061.06	444.87	-3.34	444.88	12.00	399,649.77	746,144.06	
9,674.28	89.00	359.57	9,410.00	6,062.10	469.12	-3.52	469.13	12.00	399,674.02	746,143.88	
Start 4152.83 hold at 9674.28 MD											
9,700.00	89.00	359.57	9,410.45	6,062.55	494.84	-3.72	494.85	0.00	399,699.74	746,143.68	
9,800.00	89.00	359.57	9,412.20	6,064.30	594.82	-4.47	594.84	0.00	399,799.72	746,142.93	
9,900.00	89.00	359.57	9,413.94	6,066.04	694.80	-5.22	694.82	0.00	399,899.70	746,142.18	
10,000.00	89.00	359.57	9,415.69	6,067.79	794.78	-5.97	794.81	0.00	399,999.68	746,141.43	
10,100.00	89.00	359.57	9,417.43	6,069.53	894.77	-6.72	894.79	0.00	400,099.67	746,140.68	
10,200.00	89.00	359.57	9,419.18	6,071.28	994.75	-7.47	994.78	0.00	400,199.65	746,139.93	
10,300.00	89.00	359.57	9,420.92	6,073.02	1,094.73	-8.22	1,094.76	0.00	400,299.63	746,139.18	
10,400.00	89.00	359.57	9,422.67	6,074.77	1,194.71	-8.97	1,194.74	0.00	400,399.61	746,138.43	
10,500.00	89.00	359.57	9,424.41	6,076.51	1,294.69	-9.72	1,294.73	0.00	400,499.59	746,137.68	
10,600.00	89.00	359.57	9,426.16	6,078.26	1,394.67	-10.47	1,394.71	0.00	400,599.57	746,136.93	
10,700.00	89.00	359.57	9,427.90	6,080.00	1,494.66	-11.22	1,494.70	0.00	400,699.56	746,136.18	
10,800.00	89.00	359.57	9,429.65	6,081.75	1,594.64	-11.97	1,594.68	0.00	400,799.54	746,135.43	

Company:	EOG Resources, Inc	Local Co-ordinate Reference:	Well #4H
Project:	Lea County	TVD Reference:	RKBtoGL-19' @ 3347.90ft (Original Well Elev)
Site:	Lomas Rojas "26" State Com.	MD Reference:	RKBtoGL-19' @ 3347.90ft (Original Well Elev)
Well:	#4H	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)
10,900.00	89.00	359.57	9,431.39	6,083.49	1,694.62	-12.72	1,694.67	0.00	400,899.52	746,134.68
11,000.00	89.00	359.57	9,433.14	6,085.24	1,794.60	-13.48	1,794.65	0.00	400,999.50	746,133.92
11,100.00	89.00	359.57	9,434.88	6,086.98	1,894.58	-14.23	1,894.64	0.00	401,099.48	746,133.17
11,200.00	89.00	359.57	9,436.63	6,088.73	1,994.57	-14.98	1,994.62	0.00	401,199.47	746,132.42
11,300.00	89.00	359.57	9,438.37	6,090.47	2,094.55	-15.73	2,094.61	0.00	401,299.45	746,131.67
11,400.00	89.00	359.57	9,440.12	6,092.22	2,194.53	-16.48	2,194.59	0.00	401,399.43	746,130.92
11,500.00	89.00	359.57	9,441.87	6,093.97	2,294.51	-17.23	2,294.58	0.00	401,499.41	746,130.17
11,600.00	89.00	359.57	9,443.61	6,095.71	2,394.49	-17.98	2,394.56	0.00	401,599.39	746,129.42
11,700.00	89.00	359.57	9,445.36	6,097.46	2,494.48	-18.73	2,494.55	0.00	401,699.38	746,128.67
11,800.00	89.00	359.57	9,447.10	6,099.20	2,594.46	-19.48	2,594.53	0.00	401,799.36	746,127.92
11,900.00	89.00	359.57	9,448.85	6,100.95	2,694.44	-20.23	2,694.52	0.00	401,899.34	746,127.17
12,000.00	89.00	359.57	9,450.59	6,102.69	2,794.42	-20.98	2,794.50	0.00	401,999.32	746,126.42
12,100.00	89.00	359.57	9,452.34	6,104.44	2,894.40	-21.73	2,894.49	0.00	402,099.30	746,125.67
12,200.00	89.00	359.57	9,454.08	6,106.18	2,994.39	-22.48	2,994.47	0.00	402,199.29	746,124.92
12,300.00	89.00	359.57	9,455.83	6,107.93	3,094.37	-23.24	3,094.46	0.00	402,299.27	746,124.16
12,400.00	89.00	359.57	9,457.57	6,109.67	3,194.35	-23.99	3,194.44	0.00	402,399.25	746,123.41
12,500.00	89.00	359.57	9,459.32	6,111.42	3,294.33	-24.74	3,294.42	0.00	402,499.23	746,122.66
12,600.00	89.00	359.57	9,461.06	6,113.16	3,394.31	-25.49	3,394.41	0.00	402,599.21	746,121.91
12,700.00	89.00	359.57	9,462.81	6,114.91	3,494.30	-26.24	3,494.39	0.00	402,699.20	746,121.16
12,800.00	89.00	359.57	9,464.55	6,116.65	3,594.28	-26.99	3,594.38	0.00	402,799.18	746,120.41
12,900.00	89.00	359.57	9,466.30	6,118.40	3,694.26	-27.74	3,694.36	0.00	402,899.16	746,119.66
13,000.00	89.00	359.57	9,468.04	6,120.14	3,794.24	-28.49	3,794.35	0.00	402,999.14	746,118.91
13,100.00	89.00	359.57	9,469.79	6,121.89	3,894.22	-29.24	3,894.33	0.00	403,099.12	746,118.16
13,200.00	89.00	359.57	9,471.53	6,123.63	3,994.21	-29.99	3,994.32	0.00	403,199.11	746,117.41
13,300.00	89.00	359.57	9,473.28	6,125.38	4,094.19	-30.74	4,094.30	0.00	403,299.09	746,116.66
13,400.00	89.00	359.57	9,475.02	6,127.12	4,194.17	-31.49	4,194.29	0.00	403,399.07	746,115.91
13,500.00	89.00	359.57	9,476.77	6,128.87	4,294.15	-32.24	4,294.27	0.00	403,499.05	746,115.16

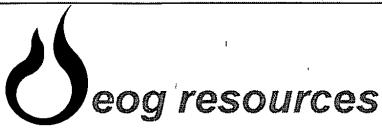
Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Lea County	TVD Reference:	RKBtoGL-19' @ 3347.90ft (Original Well Elev)
Site:	Lomas' Rojas "26" State Com	MD Reference:	RKBtoGL-19' @ 3347.90ft (Original Well Elev)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
13,600.00	89.00	359.57	9,478.52	6,130.62	4,394.13	-32.99	4,394.26	0.00	403,599.03	746,114.41
13,700.00	89.00	359.57	9,480.26	6,132.36	4,494.12	-33.75	4,494.24	0.00	403,699.02	746,113.65
13,800.00	89.00	359.57	9,482.01	6,134.11	4,594.10	-34.50	4,594.23	0.00	403,799.00	746,112.90
13,825.84	89.00	359.57	9,482.46	6,134.56	4,619.94	-34.69	4,620.07	0.00	403,824.84	746,112.71
Lomas#4H_PBHL - Lomas#4H_PBHL										
13,827.11	89.00	359.57	9,482.48	6,134.58	4,621.20	-34.70	4,621.33	0.00	403,826.10	746,112.70
TD at 13827.11										

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Lomas#4H_PBHL	0.00	0.00	9,410.00	4,621.20	-34.70	403,826.100	746,112.700	32° 6' 27.863 N	103° 32' 18.557 W
- plan misses target center by 72.47ft at 13825.84ft MD (9482.46 TVD, 4619.94 N, -34.69 E)									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,932.61	8,932.61	0.00	0.00	Start Build 12.00
9,674.28	9,410.00	469.12	-3.52	Start 4152.83 hold at 9674.28 MD
13,827.11	9,482.48	4,621.20	-34.70	TD at 13827.11

Checked By: _____	Approved By: _____	Date: _____
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Project: Lea County
Site: Lomas Rojas "26" State Com
Well: #4H
Wellbore: OH
Plan: Plan #1 (#4H/OH)



Azimuths to Grid North
True North: -0.42°
Magnetic North: 7.28°
Magnetic Field
Strength: 48703.1snT
Dip Angle: 68.12°
Date: 02/26/2010
Model: IGRF200510

PATHFINDER

WELL DETAILS: #4H

Ground Elevation: 3328.90
RKB Elevation: RKBtoGL 19' @ 3347.90ft (Original Well Elev)
Rig Name: Original Well Elev

	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
	0.00	0.00	399204.900	746167.400	32° 9' 42.131 N	103° 32' 18.550 W	

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	8932.61	0.00	0.00	8932.61	0.00	0.00	0.00	0.00	0.00	
3	9674.28	89.00	359.57	9410.00	469.12	-3.52	12.00	359.57	469.13	Lomas#4H_PBHL
4	13827.11	89.00	359.57	9482.48	4621.20	-34.70	0.00	0.00	4621.33	Lomas#4H_PBHL

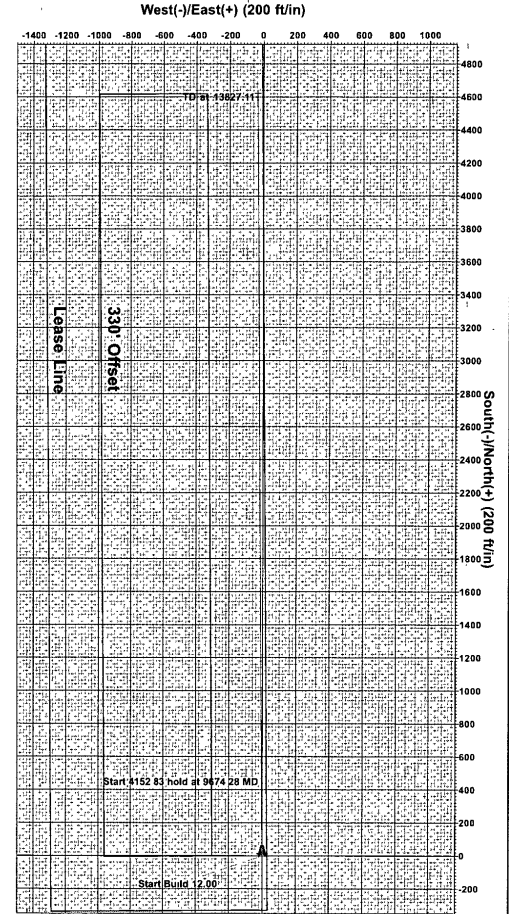
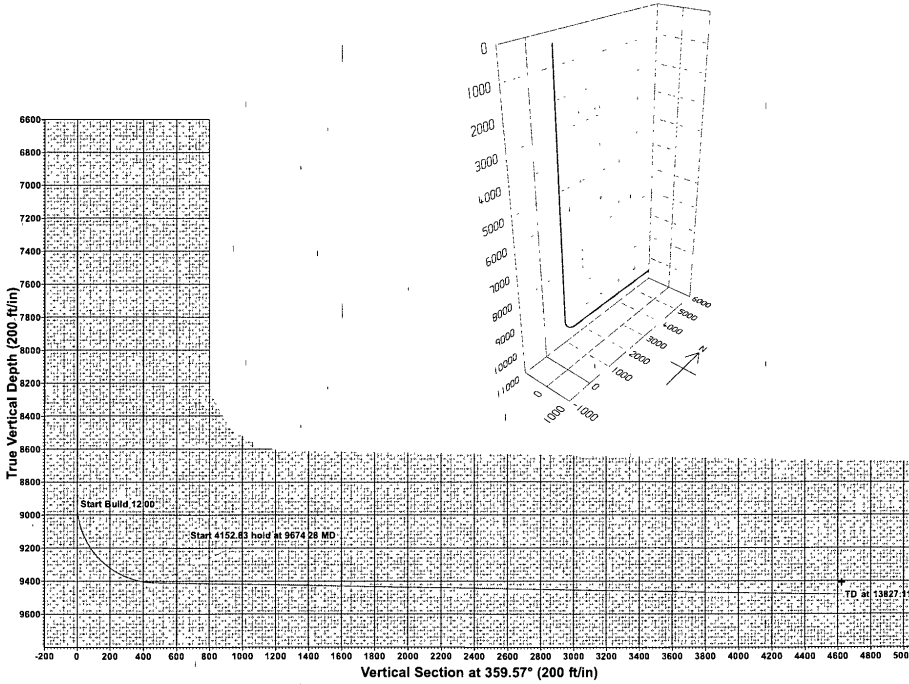
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Lomas#4H_PBHL	4621.20		-34.70	403826.100	746112.700	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 (#4H/OH)
Created By: Nate Bingham Date: 10/52, February 26/2010
Checked: _____ Date: _____