



EOG Resources, Inc.

Lea County
Lomas Rojas "26" State Com
#3H
OH

RECEIVED

AUG 09 2010
HOBBSOCD

Survey: MWD #1

Pathfinder X & Y Survey Report

15 June, 2010

PATHFINDER

SUR @ O-26-25s-33e, 330/S & 2262/E
BHL @ B-26-25s-33e, 4905/S & 2306/E
API # 30-025-39702

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Lea County	TVD Reference:	Cactus Rig @ 3357.00ft (30' KB)
Site:	Lomas Rojas "26" State Com	MD Reference:	Cactus Rig @ 3357.00ft (30' KB)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Project	Lea County
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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
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Site Position:		Northing:	403,802.800 ft	Latitude:	32° 6' 27.886 N
From:	Map	Eastings:	742,610.100 ft	Longitude:	103° 32' 59.279 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.42 °

Well	#3H
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Well Position	+N/-S	0.00 ft	Northing:	399,198.900 ft	Latitude:	32° 5' 42.138 N
	+E/-W	0.00 ft	Eastings:	745,235.400 ft	Longitude:	103° 32' 29.152 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,327.00 ft

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

Design	OH
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Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.00

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	359.47

Survey Program	Date	06/15/2010
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From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
219.00	13,742.00	MWD #1 (OH)	MWD	MWD - Standard

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

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	0.00	-3,357.00	0.00	0.00	0.00	0.00	399,198.90	745,235.40
219.00	0.62	0.00	219.00	-3,138.00	1.18	0.00	1.18	0.28	399,200.08	745,235.40	
401.00	0.61	0.00	400.99	-2,956.01	3.14	0.00	3.14	0.01	399,202.04	745,235.40	
665.00	0.26	0.00	664.98	-2,692.02	5.14	0.00	5.14	0.13	399,204.04	745,235.40	
818.00	0.53	341.34	817.97	-2,539.03	6.16	-0.23	6.16	0.19	399,205.06	745,235.17	
1,007.00	0.44	56.75	1,006.97	-2,350.03	7.39	0.10	7.39	0.32	399,206.29	745,235.50	
1,197.00	0.44	47.26	1,196.96	-2,160.04	8.28	1.25	8.27	0.04	399,207.18	745,236.65	
1,384.00	0.00	146.66	1,383.96	-1,973.04	8.77	1.77	8.75	0.24	399,207.67	745,237.17	
1,574.00	0.09	350.57	1,573.96	-1,783.04	8.92	1.75	8.90	0.05	399,207.82	745,237.15	
1,763.00	0.35	332.55	1,762.96	-1,594.04	9.57	1.46	9.56	0.14	399,208.47	745,236.86	
1,952.00	0.18	321.13	1,951.96	-1,405.04	10.32	1.01	10.31	0.09	399,209.22	745,236.41	
2,142.00	0.09	340.20	2,141.96	-1,215.04	10.69	0.77	10.68	0.05	399,209.59	745,236.17	
2,309.00	0.26	71.52	2,308.96	-1,048.04	10.93	1.08	10.92	0.17	399,209.83	745,236.48	
2,426.00	0.88	64.40	2,425.95	-931.05	11.41	2.15	11.39	0.53	399,210.31	745,237.55	
2,613.00	1.93	64.40	2,612.89	-744.11	13.39	6.28	13.33	0.56	399,212.29	745,241.68	
2,707.00	1.49	58.60	2,706.85	-650.15	14.71	8.75	14.63	0.50	399,213.61	745,244.15	
2,802.00	0.79	9.82	2,801.83	-555.17	16.00	9.92	15.91	1.20	399,214.90	745,245.32	
2,896.00	1.14	16.59	2,895.82	-461.18	17.53	10.30	17.44	0.39	399,216.43	745,245.70	
2,989.00	1.06	358.83	2,988.80	-368.20	19.28	10.54	19.18	0.37	399,218.18	745,245.94	
3,084.00	0.09	48.31	3,083.80	-273.20	20.21	10.58	20.11	1.06	399,219.11	745,245.98	
3,179.00	0.97	75.65	3,178.79	-178.21	20.46	11.41	20.35	0.94	399,219.36	745,246.81	
3,273.00	2.02	75.30	3,272.76	-84.24	21.07	13.79	20.95	1.12	399,219.97	745,249.19	
3,367.00	1.76	59.83	3,366.71	9.71	22.22	16.64	22.06	0.61	399,221.12	745,252.04	
3,461.00	0.44	36.89	3,460.69	103.69	23.23	18.10	23.07	1.45	399,222.13	745,253.50	
3,555.00	0.26	90.33	3,554.69	197.69	23.52	18.53	23.35	0.38	399,222.42	745,253.93	
3,649.00	0.18	83.73	3,648.69	291.69	23.54	18.89	23.36	0.09	399,222.44	745,254.29	
3,838.00	0.44	170.40	3,837.68	480.68	22.85	19.31	22.67	0.25	399,221.75	745,254.71	

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Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
4,027.00	1.85	80.92	4,026.65	669.65	22.62	22.44	22.41	1.00	399,221.52	745,257.84	
4,120.00	1.14	55.08	4,119.62	762.62	23.39	24.68	23.16	1.03	399,222.29	745,260.08	
4,216.00	0.26	2.26	4,215.61	858.61	24.15	25.48	23.91	1.05	399,223.05	745,260.88	
4,310.00	0.35	87.78	4,309.61	952.61	24.37	25.77	24.13	0.45	399,223.27	745,261.17	
4,405.00	2.37	97.71	4,404.58	1,047.58	24.12	28.01	23.86	2.13	399,223.02	745,263.41	
4,500.00	2.81	91.03	4,499.48	1,142.48	23.82	32.28	23.52	0.56	399,222.72	745,267.68	
4,594.00	1.58	80.92	4,593.41	1,236.41	23.98	35.87	23.65	1.37	399,222.88	745,271.27	
4,689.00	1.76	114.50	4,688.37	1,331.37	23.58	38.49	23.22	1.03	399,222.48	745,273.89	
4,783.00	0.44	58.16	4,782.35	1,425.35	23.17	40.11	22.80	1.66	399,222.07	745,275.51	
4,877.00	0.88	44.18	4,876.35	1,519.35	23.88	40.92	23.50	0.50	399,222.78	745,276.32	
4,971.00	0.79	28.28	4,970.34	1,613.34	24.97	41.73	24.58	0.26	399,223.87	745,277.13	
4,998.00	0.53	25.73	4,997.34	1,640.34	25.25	41.87	24.86	0.97	399,224.15	745,277.27	
5,139.00	0.53	359.54	5,138.33	1,781.33	26.49	42.15	26.09	0.17	399,225.39	745,277.55	
5,328.00	0.44	348.81	5,327.32	1,970.32	28.07	42.00	27.68	0.07	399,226.97	745,277.40	
5,518.00	0.44	341.96	5,517.32	2,160.32	29.48	41.63	29.09	0.03	399,228.38	745,277.03	
5,707.00	0.26	324.38	5,706.31	2,349.31	30.52	41.16	30.14	0.11	399,229.42	745,276.56	
5,897.00	0.26	308.56	5,896.31	2,539.31	31.14	40.57	30.76	0.04	399,230.04	745,275.97	
6,087.00	0.53	313.92	6,086.31	2,729.31	32.02	39.60	31.65	0.14	399,230.92	745,275.00	
6,277.00	0.70	298.28	6,276.30	2,919.30	33.18	37.94	32.82	0.12	399,232.08	745,273.34	
6,467.00	0.70	301.97	6,466.28	3,109.28	34.34	35.94	34.01	0.02	399,233.24	745,271.34	
6,657.00	0.70	299.86	6,656.27	3,299.27	35.53	33.95	35.22	0.01	399,234.43	745,269.35	
6,847.00	0.70	306.89	6,846.25	3,489.25	36.81	32.01	36.51	0.05	399,235.71	745,267.41	
7,037.00	0.79	316.82	7,036.24	3,679.24	38.46	30.19	38.18	0.08	399,237.36	745,265.59	
7,227.00	0.79	313.22	7,226.22	3,869.22	40.31	28.34	40.05	0.03	399,239.21	745,263.74	
7,417.00	0.62	289.75	7,416.21	4,059.21	41.56	26.41	41.31	0.17	399,240.46	745,261.81	
7,607.00	0.62	269.62	7,606.19	4,249.19	41.90	24.42	41.67	0.11	399,240.80	745,259.82	
7,796.00	0.62	233.15	7,795.18	4,438.18	41.28	22.58	41.07	0.21	399,240.18	745,257.98	

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Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,986.00	0.53	228.49	7,985.17	4,628.17	40.08	21.10	39.88	0.05	399,238.98	745,256.50
8,176.00	0.70	211.70	8,175.16	4,818.16	38.51	19.83	38.32	0.13	399,237.41	745,255.23
8,366.00	0.97	216.36	8,365.14	5,008.14	36.22	18.27	36.05	0.15	399,235.12	745,253.67
8,556.00	0.62	214.69	8,555.12	5,198.12	34.08	16.73	33.93	0.18	399,232.98	745,252.13
8,744.00	0.62	174.79	8,743.11	5,386.11	32.23	16.24	32.08	0.23	399,231.13	745,251.64
8,878.00	1.14	175.40	8,877.10	5,520.10	30.18	16.41	30.03	0.39	399,229.08	745,251.81
8,944.00	1.67	20.10	8,943.09	5,586.09	30.43	16.80	30.28	4.16	399,229.33	745,252.20
8,975.00	5.80	9.99	8,974.02	5,617.02	32.40	17.22	32.24	13.44	399,231.30	745,252.62
9,007.00	10.64	7.53	9,005.68	5,648.68	36.92	17.89	36.76	15.16	399,235.82	745,253.29
9,038.00	15.83	7.09	9,035.85	5,678.85	43.96	18.79	43.79	16.74	399,242.86	745,254.19
9,069.00	20.14	5.95	9,065.32	5,708.32	53.47	19.86	53.28	13.95	399,252.37	745,255.26
9,100.00	24.27	5.78	9,094.02	5,737.02	65.12	21.06	64.93	13.32	399,264.02	745,256.46
9,132.00	28.05	5.34	9,122.74	5,765.74	79.16	22.42	78.95	11.83	399,278.06	745,257.82
9,164.00	31.74	5.25	9,150.47	5,793.47	95.04	23.89	94.82	11.53	399,293.94	745,259.29
9,195.00	35.44	4.90	9,176.29	5,819.29	112.12	25.41	111.88	11.95	399,311.02	745,260.81
9,227.00	38.87	3.58	9,201.79	5,844.79	131.39	26.83	131.14	11.00	399,330.29	745,262.23
9,258.00	41.94	3.14	9,225.40	5,868.40	151.45	28.00	151.18	9.95	399,350.35	745,263.40
9,289.00	44.49	2.70	9,247.99	5,890.99	172.65	29.08	172.37	8.28	399,371.55	745,264.48
9,321.00	47.92	2.44	9,270.13	5,913.13	195.72	30.12	195.43	10.73	399,394.62	745,265.52
9,352.00	52.14	1.65	9,290.04	5,933.04	219.46	30.96	219.16	13.75	399,418.36	745,266.36
9,383.00	55.13	1.21	9,308.42	5,951.42	244.41	31.58	244.11	9.71	399,443.31	745,266.98
9,414.00	57.16	1.03	9,325.69	5,968.69	270.15	32.08	269.84	6.57	399,469.05	745,267.48
9,446.00	60.85	1.03	9,342.16	5,985.16	297.57	32.58	297.25	11.53	399,496.47	745,267.98
9,484.00	63.66	1.29	9,359.85	6,002.85	331.19	33.26	330.87	7.42	399,530.09	745,268.66
9,515.00	64.98	1.38	9,373.29	6,016.29	359.12	33.91	358.79	4.27	399,558.02	745,269.31
9,547.00	66.92	1.47	9,386.33	6,029.33	388.33	34.64	387.99	6.07	399,587.23	745,270.04
9,578.00	69.47	0.94	9,397.84	6,040.84	417.10	35.24	416.76	8.38	399,616.00	745,270.64

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
9,609.00	72.63	0.59	9,407.91	6,050.91	446.42	35.63	446.07	10.25	399,645.32	745,271.03	
9,640.00	75.80	0.59	9,416.34	6,059.34	476.24	35.94	475.89	10.23	399,675.14	745,271.34	
9,671.00	78.52	0.50	9,423.23	6,066.23	506.46	36.22	506.11	8.78	399,705.36	745,271.62	
9,703.00	81.43	0.24	9,428.80	6,071.80	537.97	36.43	537.61	9.13	399,736.87	745,271.83	
9,734.00	84.77	0.06	9,432.52	6,075.52	568.74	36.51	568.38	10.79	399,767.64	745,271.91	
9,765.00	87.23	0.15	9,434.68	6,077.68	599.66	36.56	599.30	7.94	399,798.56	745,271.96	
9,796.00	87.32	359.71	9,436.16	6,079.16	630.63	36.53	630.26	1.45	399,829.53	745,271.93	
9,828.00	88.29	359.54	9,437.38	6,080.38	662.60	36.32	662.24	3.08	399,861.50	745,271.72	
9,859.00	88.37	359.80	9,438.29	6,081.29	693.59	36.14	693.23	0.88	399,892.49	745,271.54	
9,891.00	89.97	359.89	9,438.75	6,081.75	725.58	36.05	725.22	5.01	399,924.48	745,271.45	
9,953.00	89.69	359.18	9,438.93	6,081.93	787.58	35.55	787.22	1.23	399,986.48	745,270.95	
10,047.00	89.87	359.18	9,439.29	6,082.29	881.57	34.20	881.22	0.19	400,080.47	745,269.60	
10,141.00	90.22	359.62	9,439.22	6,082.22	975.57	33.22	975.22	0.60	400,174.47	745,268.62	
10,234.00	90.66	359.18	9,438.51	6,081.51	1,068.56	32.25	1,068.21	0.67	400,267.46	745,267.65	
10,328.00	91.28	358.74	9,436.91	6,079.91	1,162.53	30.54	1,162.20	0.81	400,361.43	745,265.94	
10,422.00	90.57	358.39	9,435.40	6,078.40	1,256.49	28.19	1,256.17	0.84	400,455.39	745,263.59	
10,516.00	91.89	358.57	9,433.38	6,076.38	1,350.43	25.69	1,350.13	1.42	400,549.33	745,261.09	
10,610.00	90.84	359.01	9,431.14	6,074.14	1,444.38	23.71	1,444.10	1.21	400,643.28	745,259.11	
10,704.00	90.31	359.62	9,430.20	6,073.20	1,538.37	22.59	1,538.09	0.86	400,737.27	745,257.99	
10,797.00	87.93	0.77	9,431.63	6,074.63	1,631.35	22.90	1,631.07	2.84	400,830.25	745,258.30	
10,893.00	88.29	0.59	9,434.79	6,077.79	1,727.29	24.04	1,726.99	0.42	400,926.19	745,259.44	
10,988.00	87.58	0.06	9,438.21	6,081.21	1,822.22	24.58	1,821.92	0.93	401,021.12	745,259.98	
11,084.00	87.41	359.71	9,442.41	6,085.41	1,918.13	24.39	1,917.82	0.41	401,117.03	745,259.79	
11,180.00	88.72	359.71	9,445.65	6,088.65	2,014.07	23.90	2,013.77	1.36	401,212.97	745,259.30	
11,275.00	89.08	359.89	9,447.48	6,090.48	2,109.06	23.57	2,108.75	0.42	401,307.96	745,258.97	
11,370.00	86.97	359.98	9,450.75	6,093.75	2,203.99	23.46	2,203.68	2.22	401,402.89	745,258.86	
11,466.00	88.90	359.71	9,454.21	6,097.21	2,299.93	23.20	2,299.61	2.03	401,498.83	745,258.60	

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11,561.00	88.81	359.18	9,456.11	6,099.11	2,394.90	22.28	2,394.59	0.57	401,593.80	745,257.68
11,656.00	89.69	359.45	9,457.35	6,100.35	2,489.89	21.15	2,489.58	0.97	401,688.79	745,256.55
11,752.00	90.40	359.10	9,457.27	6,100.27	2,585.88	19.93	2,585.58	0.82	401,784.78	745,255.33
11,848.00	90.22	359.10	9,456.76	6,099.76	2,681.87	18.42	2,681.58	0.19	401,880.77	745,253.82
11,943.00	90.75	359.10	9,455.95	6,098.95	2,776.85	16.93	2,776.57	0.56	401,975.75	745,252.33
12,039.00	89.16	358.39	9,456.03	6,099.03	2,872.82	14.83	2,872.56	1.81	402,071.72	745,250.23
12,135.00	89.78	358.66	9,456.91	6,099.91	2,968.79	12.36	2,968.55	0.70	402,167.69	745,247.76
12,231.00	90.75	358.39	9,456.47	6,099.47	3,064.75	9.89	3,064.53	1.05	402,263.65	745,245.29
12,326.00	91.63	357.95	9,454.50	6,097.50	3,159.68	6.85	3,159.48	1.04	402,358.58	745,242.25
12,422.00	90.66	357.87	9,452.58	6,095.58	3,255.60	3.35	3,255.43	1.01	402,454.50	745,238.75
12,518.00	90.84	357.95	9,451.32	6,094.32	3,351.53	-0.15	3,351.38	0.21	402,550.43	745,235.25
12,613.00	90.57	358.48	9,450.15	6,093.15	3,446.47	-3.11	3,446.35	0.63	402,645.37	745,232.29
12,709.00	91.10	358.48	9,448.75	6,091.75	3,542.43	-5.65	3,542.33	0.55	402,741.33	745,229.75
12,805.00	90.13	358.13	9,447.72	6,090.72	3,638.38	-8.49	3,638.30	1.07	402,837.28	745,226.91
12,900.00	91.80	358.04	9,446.12	6,089.12	3,733.31	-11.67	3,733.26	1.76	402,932.21	745,223.73
12,996.00	90.40	358.04	9,444.28	6,087.28	3,829.23	-14.95	3,829.21	1.46	403,028.13	745,220.45
13,092.00	90.92	357.25	9,443.18	6,086.18	3,925.14	-18.89	3,925.15	0.99	403,124.04	745,216.51
13,187.00	90.04	358.13	9,442.38	6,085.38	4,020.06	-22.72	4,020.10	1.31	403,218.96	745,212.68
13,282.00	91.10	357.95	9,441.43	6,084.43	4,115.00	-25.97	4,115.06	1.13	403,313.90	745,209.43
13,378.00	89.69	357.51	9,440.77	6,083.77	4,210.92	-29.77	4,211.02	1.54	403,409.82	745,205.63
13,473.00	90.31	357.43	9,440.77	6,083.77	4,305.83	-33.97	4,305.96	0.66	403,504.73	745,201.43
13,569.00	91.28	357.25	9,439.44	6,082.44	4,401.71	-38.42	4,401.88	1.03	403,600.61	745,196.98
13,665.00	90.92	358.57	9,437.60	6,080.60	4,497.63	-41.92	4,497.82	1.42	403,696.53	745,193.48
13,695.00	90.57	358.57	9,437.21	6,080.21	4,527.62	-42.67	4,527.82	1.17	403,726.52	745,192.73
13,742.00	90.57	358.57	9,436.74	6,079.74	4,574.60	-43.84	4,574.81	0.00	403,773.50	745,191.56
BHL-13742.00°MD,90.57°INC,358.57°AZI, 9436.74°TVD, 4574.81°VS, 4574.60°N, -43.84°E - Lomas26#3H_PBHL										

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Lea County	TVD Reference:	Cactus Rig @ 3357.00ft (30' KB)
Site:	Lomas Rojas "26" State Com	MD Reference:	Cactus Rig @ 3357.00ft (30' KB)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Lomas26#3H PBHL	0.00	0.00	9,466.30	4,621.40	-42.70	403,820.300	745,192.700	32° 6' 27.873 N	103° 32' 29.253 W
- survey misses target center by 55.36ft at 13742.00ft MD (9436.74 TVD, 4574.60 N, -43.84 E)									
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
13,742.00	9,436.74	4,574.60	-43.84	BHL-13742.00*MD,90.57*INC,358.57*AZI, 9436.74*TVD, 4574.81*VS, 4

Checked By: _____	Approved By: _____	Date: _____
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