



SUR: C-26-14s-32e, 811/N & 2310/W
BHL: B-27-14s-32e, 697/N & 2261/E
API # 30-025-39559

EOG Resources, Inc.

Lea County
Incredible Hulk 26 Com
Incredible Hulk 26 Com #1
OH

Survey: MWD #1

Pathfinder X & Y Survey Report

07 December, 2009

PATHFINDER

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well Incredible Hulk 26 Com #1
Project:	Lea County	TVD Reference:	WELL @ 4290.70ft (Ground Elevation)
Site:	Incredible Hulk 26 Com	MD Reference:	WELL @ 4290.70ft (Ground Elevation)
Well:	Incredible Hulk 26 Com #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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		Incredible Hulk 26 Com			
Site Position:		Northing:	757,402.400 ft	Latitude:	33° 4' 49.764 N
From:	Map	Easting:	697,396.500 ft	Longitude:	103° 41' 20.018 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0 35 °

Well		Incredible Hulk 26 Com #1				
Well Position	+N/-S	0.00 ft	Northing:	757,402.400 ft	Latitude:	33° 4' 49.764 N
	+E/-W	0.00 ft	Easting:	697,396.500 ft	Longitude:	103° 41' 20.018 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,290.70 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/15/2009	7.89	61.02	49,308

Design		OH			
Audit Notes:					
Version:		1.0	Phase:		ACTUAL
			Tie On Depth:		0.00
Vertical Section:		Depth From (TVD)		+N/-S	+E/-W
		(ft)		(ft)	(ft)
		0.00		0.00	0.00
				Direction	(°)
				271.57	

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Survey Program		Date	12/07/2009	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	8,400.00	GYRO (OH)	Gyro	Gyro
8,420.00	13,240.00	MWD #1 (OH)	MWD	MWD - Standard

MD (ft)	Inc (")	Azi (")	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg ("/100ft)	Northing (ft)	Easting (ft)
8,400.00	1.11	291.86	8,399.47	4,108.77	24.61	-51.96	52.62	0.00	757,427.01	697,344.54
8,420.00	1.58	274.09	8,419.46	4,128.76	24.70	-52.42	53.07	3.12	757,427.10	697,344.08
8,452.00	3.61	266.33	8,451.43	4,160.73	24.67	-53.86	54.52	6.42	757,427.07	697,342.64
8,483.00	6.33	262.87	8,482.31	4,191.61	24.39	-56.53	57.18	8.82	757,426.79	697,339.97
8,514.00	9.32	268.67	8,513.02	4,222.32	24.12	-60.74	61.38	9.96	757,426.52	697,335.76
8,546.00	12.31	270.30	8,544.44	4,253.74	24.08	-66.74	67.38	9.39	757,426.48	697,329.76
8,577.00	15.12	270.62	8,574.56	4,283.86	24.14	-74.09	74.72	9.07	757,426.54	697,322.41
8,609.00	18.64	270.54	8,605.17	4,314.47	24.23	-83.38	84.01	11.00	757,426.63	697,313.12
8,641.00	23.30	270.09	8,635.05	4,344.35	24.29	-94.83	95.46	14.57	757,426.69	697,301.67
8,673.00	27.79	269.77	8,663.91	4,373.21	24.27	-108.63	109.25	14.04	757,426.67	697,287.87
8,705.00	32.45	269.50	8,691.58	4,400.88	24.17	-124.68	125.29	14.57	757,426.57	697,271.82
8,737.00	36.14	269.57	8,718.01	4,427.31	24.02	-142.71	143.31	11.53	757,426.42	697,253.79
8,769.00	39.75	268.71	8,743.25	4,452.55	23.72	-162.38	162.97	11.40	757,426.12	697,234.12
8,800.00	43.26	267.83	8,766.46	4,475.76	23.10	-182.91	183.47	11.48	757,425.50	697,213.59
8,832.00	47.04	267.33	8,789.02	4,498.32	22.13	-205.57	206.10	11.86	757,424.53	697,190.93
8,864.00	50.83	266.69	8,810.04	4,519.34	20.87	-229.66	230.14	11.94	757,423.27	697,166.84
8,895.00	54.34	267.34	8,828.87	4,538.17	19.59	-254.24	254.68	11.44	757,421.99	697,142.26
8,927.00	57.68	268.72	8,846.76	4,556.06	18.69	-280.75	281.16	11.03	757,421.09	697,115.75
8,959.00	60.59	269.60	8,863.17	4,572.47	18.29	-308.22	308.60	9.39	757,420.69	697,088.28
8,991.00	63.75	269.56	8,878.11	4,587.41	18.08	-336.51	336.88	9.88	757,420.48	697,059.99
9,023.00	66.92	268.58	8,891.46	4,600.76	17.61	-365.58	365.93	10.29	757,420.01	697,030.92

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Well:	Incredible Hulk 26 Com #1	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)
9,054.00	70.61	268.80	8,902.69	4,611.99	16.95	-394.47	394.78	11.92	757,419.35	697,002.03
9,086.00	74.39	268.49	8,912.31	4,621.61	16.22	-424.97	425.26	11.85	757,418.62	696,971.53
9,118.00	78.52	268.98	8,919.80	4,629.10	15.54	-456.07	456.32	12.99	757,417.94	696,940.43
9,150.00	81.95	269.28	8,925.23	4,634.53	15.06	-487.59	487.82	10.76	757,417.46	696,908.91
9,182.00	84.15	269.37	8,929.10	4,638.40	14.69	-519.35	519.56	6.88	757,417.09	696,877.15
9,251.00	89.08	267.78	8,933.18	4,642.48	12.97	-588.19	588.32	7.51	757,415.37	696,808.31
9,346.00	92.33	267.61	8,932.01	4,641.31	9.15	-683.09	683.09	3.43	757,411.55	696,713.41
9,441.00	92.95	267.60	8,927.63	4,636.93	5.19	-777.91	777.76	0.65	757,407.59	696,618.59
9,537.00	92.15	268.21	8,923.36	4,632.66	1.68	-873.75	873.47	1.05	757,404.08	696,522.75
9,631.00	92.77	268.10	8,919.33	4,628.63	-1.34	-967.61	967.21	0.67	757,401.06	696,428.89
9,726.00	93.21	268.11	8,914.37	4,623.67	-4.48	-1,062.43	1,061.91	0.46	757,397.92	696,334.07
9,821.00	92.15	268.46	8,909.93	4,619.23	-7.32	-1,157.28	1,156.65	1.17	757,395.08	696,239.22
9,916.00	92.95	268.68	8,905.70	4,615.00	-9.69	-1,252.16	1,251.42	0.87	757,392.71	696,144.34
10,011.00	92.24	268.43	8,901.40	4,610.70	-12.08	-1,347.03	1,346.19	0.79	757,390.32	696,049.47
10,107.00	90.57	268.52	8,899.05	4,608.35	-14.64	-1,442.96	1,442.02	1.74	757,387.76	695,953.54
10,202.00	91.54	268.84	8,897.30	4,606.60	-16.82	-1,537.92	1,536.88	1.08	757,385.58	695,858.58
10,286.91	90.36	269.30	8,895.89	4,605.19	-18.20	-1,622.80	1,621.70	1.49	757,384.20	695,773.70
BHL (State 26 #1)										
10,297.00	90.22	269.36	8,895.84	4,605.14	-18.32	-1,632.90	1,631.78	1.49	757,384.08	695,763.60
10,392.00	91.19	269.18	8,894.67	4,603.97	-19.53	-1,727.88	1,726.70	1.04	757,382.87	695,668.62
10,487.00	90.13	269.20	8,893.58	4,602.88	-20.87	-1,822.86	1,821.61	1.12	757,381.53	695,573.64
10,582.00	90.48	269.54	8,893.07	4,602.37	-21.91	-1,917.86	1,916.53	0.51	757,380.49	695,478.64
10,677.00	91.19	269.34	8,891.69	4,600.99	-22.84	-2,012.84	2,011.46	0.78	757,379.56	695,383.66
10,772.00	90.31	270.16	8,890.44	4,599.74	-23.26	-2,107.83	2,106.40	1.27	757,379.14	695,288.67
10,867.00	91.01	269.29	8,889.35	4,598.65	-23.71	-2,202.82	2,201.34	1.18	757,378.69	695,193.68
10,962.00	91.98	271.59	8,886.87	4,596.17	-22.98	-2,297.78	2,296.29	2.63	757,379.42	695,098.72
11,058.00	91.45	273.95	8,884.00	4,593.30	-18.35	-2,393.62	2,392.21	2.52	757,384.05	695,002.88

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Well:	Incredible Hulk 26 Com #1	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)	
11,153.00	92.24	274.08	8,880.94	4,590.24	-11.70	-2,488.33	2,487.08	0.84	757,390.70	694,908.17	
11,248.00	93.39	273.99	8,876.27	4,585.57	-5.02	-2,582.98	2,581.87	1.21	757,397.38	694,813.52	
11,344.00	91.63	274.03	8,872.07	4,581.37	1.68	-2,678.65	2,677.69	1.83	757,404.08	694,717.85	
11,439.00	89.78	274.79	8,870.90	4,580.20	8.99	-2,773.36	2,772.56	2.11	757,411.39	694,623.14	
11,534.00	90.40	274.50	8,870.75	4,580.05	16.68	-2,868.04	2,867.42	0.72	757,419.08	694,528.46	
11,629.00	91.01	274.19	8,869.58	4,578.88	23.88	-2,962.76	2,962.31	0.72	757,426.28	694,433.74	
11,724.00	90.04	273.19	8,868.71	4,578.01	29.99	-3,057.56	3,057.23	1.47	757,432.39	694,338.94	
11,819.00	88.11	273.26	8,870.24	4,579.54	35.34	-3,152.39	3,152.18	2.03	757,437.74	694,244.11	
11,914.00	88.64	273.23	8,872.94	4,582.24	40.71	-3,247.20	3,247.10	0.56	757,443.11	694,149.30	
12,009.00	89.69	273.27	8,874.32	4,583.62	46.10	-3,342.04	3,342.05	1.11	757,448.50	694,054.46	
12,104.00	90.48	273.53	8,874.18	4,583.48	51.73	-3,436.87	3,437.00	0.88	757,454.13	693,959.63	
12,199.00	88.90	273.75	8,874.69	4,583.99	57.76	-3,531.67	3,531.93	1.68	757,460.16	693,864.83	
12,274.25	89.53	273.29	8,875.73	4,585.03	62.38	-3,606.78	3,607.13	1.03	757,464.78	693,789.72	
BHL (State 27 #3)											
12,294.00	89.69	273.17	8,875.86	4,585.16	63.49	-3,626.49	3,626.87	1.03	757,465.89	693,770.01	
12,389.00	87.67	273.98	8,878.05	4,587.35	69.42	-3,721.28	3,721.78	2.29	757,471.82	693,675.22	
12,484.00	88.90	273.87	8,880.90	4,590.20	75.92	-3,816.01	3,816.66	1.30	757,478.32	693,580.49	
12,580.00	89.78	273.84	8,882.00	4,591.30	82.37	-3,911.78	3,912.57	0.92	757,484.77	693,484.72	
12,675.00	90.66	273.37	8,881.64	4,590.94	88.34	-4,006.59	4,007.51	1.05	757,490.74	693,389.91	
12,770.00	90.31	272.89	8,880.83	4,590.13	93.53	-4,101.45	4,102.47	0.63	757,495.93	693,295.05	
12,897.00	91.63	272.15	8,878.68	4,587.98	99.11	-4,228.30	4,229.43	1.19	757,501.51	693,168.20	
12,992.00	92.33	272.52	8,875.40	4,584.70	102.98	-4,323.17	4,324.37	0.83	757,505.38	693,073.33	
13,166.00	93.56	272.40	8,866.46	4,575.76	110.44	-4,496.77	4,498.11	0.71	757,512.84	692,899.73	
13,240.00	93.56	272.40	8,861.87	4,571.17	113.53	-4,570.57	4,571.96	0.00	757,515.93	692,825.93	
Hulk 26 (BHL)											

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Site:	Incredible Hulk 26 Com	MD Reference:	WELL @ 4290.70ft (Ground Elevation)
Well:	Incredible Hulk 26 Com #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

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
BHL (State 27 #3) - survey misses by 1153.81ft at 12274.25ft MD (8875.73 TVD, 62.38 N, -3606.78 E) - Circle (radius 150.18)	0.00	0.00	10,000.00	-197.00	-3,608.60	757,205 400	693,787 900	33° 4' 48 032 N	103° 42' 2.441 W
Hulk 26 (BHL) - survey misses by 56.96ft at 13240 00ft MD (8861.87 TVD, 113.53 N, -4570.57 E) - Point	0.00	0.00	8,885.00	126.40	-4,621.00	757,528.800	692,775 500	33° 4' 51.292 N	103° 42' 14.316 W
BHL (State 26 #1) - survey misses by 1602.23ft at 10297.00ft MD (8895.84 TVD, -18.32 N, -1632.90 E) - Circle (radius 120.90)	0.00	0.00	10,490.00	141.40	-1,649.80	757,543.800	695,746.700	33° 4' 51.263 N	103° 41' 39.396 W

Checked By: _____ Approved By: _____ Date: _____