



EOG Resources, Inc.

Lea County
Lomas Rojas "26" State Com
#5H
OH

RECEIVED
SEP 03 2010
HOBBSOCD

SUR @ P-26-25s-33e, 330/S & 430/E
BHL @ A-26-25s-33e, 4913/S & 503/E
API # 30-025-39704

Survey: MWD #1

Pathfinder X & Y Survey Report

08 July, 2010

PATHFINDER

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #5H
Project:	Lea County	TVD Reference:	RKB to GL 30' @ 3364.40ft (Cactus #123)
Site:	Lomas Rojas "26" State Com.	MD Reference:	RKB to GL 30' @ 3364.40ft (Cactus #123)
Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Project:	Lea County	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
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	#5H					
Well Position	+N-S	0.00 ft	Northing:	399,210.900 ft	Latitude:	32° 5' 42.123 N
	+E-W	0.00 ft	Easting:	747,067.400 ft	Longitude:	103° 32' 7.855 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,334.40 ft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	02/26/2010	(°)	(°)	(nT)
			7.70	60.12	48,703

Design:	OH				
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	359.57	

Survey Program	Date	07/08/2010			
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
240.00	13,800.00	MWD #1 (OH)	MWD	MWD - Standard	

Company: EOG Resources, Inc.
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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: RKB to GL 30' @ 3364.40ft (Cactus #123)
MD Reference: RKB to GL 30' @ 3364.40ft (Cactus #123)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
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	-3,364.40	0.00	0.00	0.00	0.00	399,210.90	747,067.40
240.00	0.90	251.32	239.99	-3,124.41	-0.60	-1.79	-0.59	0.37	399,210.30	747,065.61
420.00	0.10	241.02	419.98	-2,944.42	-1.13	-3.26	-1.11	0.45	399,209.77	747,064.14
680.00	0.40	142.42	679.98	-2,684.42	-1.96	-2.91	-1.94	0.16	399,208.94	747,064.49
721.00	0.88	159.34	720.98	-2,643.42	-2.37	-2.71	-2.35	1.25	399,208.53	747,064.69
910.00	1.14	167.42	909.95	-2,454.45	-5.56	-1.79	-5.55	0.16	399,205.34	747,065.61
1,004.00	0.70	119.00	1,003.94	-2,360.46	-6.75	-1.08	-6.75	0.91	399,204.15	747,066.32
1,099.00	0.62	103.27	1,098.93	-2,265.47	-7.15	-0.07	-7.15	0.21	399,203.75	747,067.33
1,287.00	0.26	121.71	1,286.92	-2,077.48	-7.61	1.28	-7.62	0.20	399,203.29	747,068.68
1,476.00	0.62	133.37	1,475.92	-1,888.48	-8.54	2.39	-8.56	0.20	399,202.36	747,069.79
1,665.00	0.62	120.46	1,664.91	-1,699.49	-9.76	4.01	-9.79	0.07	399,201.14	747,071.41
1,854.00	0.79	139.49	1,853.89	-1,510.51	-11.27	5.74	-11.31	0.15	399,199.63	747,073.14
2,042.00	0.62	143.09	2,041.88	-1,322.52	-13.07	7.19	-13.12	0.09	399,197.83	747,074.59
2,231.00	0.53	119.31	2,230.87	-1,133.53	-14.31	8.57	-14.38	0.13	399,196.59	747,075.97
2,420.00	1.06	103.81	2,419.85	-944.55	-15.16	11.03	-15.24	0.30	399,195.74	747,078.43
2,608.00	1.76	32.89	2,607.81	-756.59	-13.15	14.29	-13.25	0.92	399,197.75	747,081.69
2,702.00	1.32	33.73	2,701.77	-662.63	-11.04	15.67	-11.15	0.47	399,199.86	747,083.07
2,796.00	0.35	41.43	2,795.76	-568.64	-9.92	16.46	-10.04	1.04	399,200.98	747,083.86
2,985.00	1.14	65.26	2,984.74	-379.66	-8.70	18.55	-8.84	0.44	399,202.20	747,085.95
3,079.00	0.62	47.25	3,078.73	-285.67	-7.96	19.77	-8.11	0.62	399,202.94	747,087.17
3,268.00	3.08	72.53	3,267.62	-96.78	-5.74	25.37	-5.94	1.34	399,205.16	747,092.77
3,363.00	2.37	53.86	3,362.51	-1.89	-3.82	29.39	-4.04	1.19	399,207.08	747,096.79
3,458.00	1.85	31.78	3,457.45	93.05	-1.36	31.78	-1.60	1.01	399,209.54	747,099.18
3,552.00	1.06	32.87	3,551.42	187.02	0.66	33.06	0.41	0.84	399,211.56	747,100.46
3,647.00	1.23	44.16	3,646.40	282.00	2.13	34.24	1.87	0.30	399,213.03	747,101.64
3,742.00	0.79	346.09	3,741.39	376.99	3.50	34.80	3.24	1.11	399,214.40	747,102.20
3,836.00	0.88	322.49	3,835.38	470.98	4.70	34.20	4.44	0.38	399,215.60	747,101.60

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Wellbore: OH
Design: OH

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North Reference:
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Minimum Curvature
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MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
3,931.00	1.85	35.23	3,930.36	565.96	6.53	34.64	6.27	1.89	399,217.43	747,102.04
4,026.00	0.97	12.63	4,025.33	660.93	8.57	35.70	8.30	1.08	399,219.47	747,103.10
4,121.00	0.97	354.80	4,120.31	755.91	10.15	35.80	9.89	0.32	399,221.05	747,103.20
4,216.00	0.97	347.29	4,215.30	850.90	11.74	35.55	11.47	0.13	399,222.64	747,102.95
4,311.00	1.14	7.53	4,310.28	945.88	13.46	35.50	13.19	0.43	399,224.36	747,102.90
4,405.00	0.44	115.38	4,404.28	1,039.88	14.23	35.95	13.96	1.43	399,225.13	747,103.35
4,594.00	1.58	113.80	4,593.25	1,228.85	12.87	38.99	12.58	0.60	399,223.77	747,106.39
4,688.00	0.97	75.54	4,687.22	1,322.82	12.55	40.95	12.24	1.08	399,223.45	747,108.35
4,783.00	1.49	87.12	4,782.20	1,417.80	12.81	42.96	12.49	0.60	399,223.71	747,110.36
4,877.00	0.70	77.55	4,876.18	1,511.78	12.99	44.74	12.66	0.86	399,223.89	747,112.14
4,983.00	0.79	44.31	4,982.17	1,617.77	13.66	45.88	13.31	0.41	399,224.56	747,113.28
5,126.00	0.53	49.80	5,125.17	1,760.77	14.79	47.08	14.44	0.19	399,225.69	747,114.48
5,315.00	0.44	47.05	5,314.16	1,949.76	15.85	48.27	15.49	0.05	399,226.75	747,115.67
5,504.00	0.35	52.15	5,503.15	2,138.75	16.70	49.26	16.33	0.05	399,227.60	747,116.66
5,693.00	0.44	30.30	5,692.15	2,327.75	17.68	50.08	17.30	0.09	399,228.58	747,117.48
5,882.00	0.44	57.81	5,881.14	2,516.74	18.69	51.06	18.31	0.11	399,229.59	747,118.46
6,071.00	0.35	12.79	6,070.14	2,705.74	19.64	51.81	19.25	0.17	399,230.54	747,119.21
6,259.00	0.62	14.27	6,258.13	2,893.73	21.19	52.18	20.79	0.14	399,232.09	747,119.58
6,449.00	0.44	5.25	6,448.12	3,083.72	22.91	52.50	22.51	0.10	399,233.81	747,119.90
6,638.00	0.53	26.55	6,637.12	3,272.72	24.41	52.96	24.02	0.11	399,235.31	747,120.36
6,828.00	0.53	6.29	6,827.11	3,462.71	26.07	53.45	25.67	0.10	399,236.97	747,120.85
7,016.00	0.62	358.83	7,015.10	3,650.70	27.95	53.52	27.55	0.06	399,238.85	747,120.92
7,205.00	0.53	14.66	7,204.09	3,839.69	29.82	53.72	29.42	0.10	399,240.72	747,121.12
7,393.00	0.35	30.59	7,392.09	4,027.69	31.16	54.24	30.75	0.11	399,242.06	747,121.64
7,582.00	0.62	53.81	7,581.08	4,216.68	32.26	55.36	31.84	0.17	399,243.16	747,122.76
7,772.00	0.53	54.59	7,771.07	4,406.67	33.37	56.90	32.95	0.05	399,244.27	747,124.30
7,962.00	0.70	77.97	7,961.06	4,596.66	34.13	58.75	33.68	0.16	399,245.03	747,126.15

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MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
8,151.00	1.06	99.76	8,150.04	4,785.64	34.07	61.61	33.61	0.26	399,244.97	747,129.01	
8,246.00	0.44	114.21	8,245.03	4,880.63	33.77	62.80	33.30	0.68	399,244.67	747,130.20	
8,436.00	0.26	127.77	8,435.02	5,070.62	33.21	63.81	32.73	0.10	399,244.11	747,131.21	
8,626.00	0.35	164.57	8,625.02	5,260.62	32.38	64.31	31.90	0.11	399,243.28	747,131.71	
8,815.00	0.44	178.43	8,814.02	5,449.62	31.10	64.48	30.62	0.07	399,242.00	747,131.88	
8,907.00	0.44	197.44	8,906.01	5,541.61	30.41	64.38	29.93	0.16	399,241.31	747,131.78	
8,963.00	0.62	226.01	8,962.01	5,597.61	30.00	64.10	29.52	0.56	399,240.90	747,131.50	
8,994.00	1.93	335.26	8,993.01	5,628.61	30.35	63.76	29.88	7.14	399,241.25	747,131.16	
9,026.00	6.07	350.02	9,024.92	5,660.52	32.51	63.24	32.04	13.23	399,243.41	747,130.64	
9,058.00	11.08	352.66	9,056.55	5,692.15	37.23	62.56	36.76	15.70	399,248.13	747,129.96	
9,089.00	16.09	354.42	9,086.68	5,722.28	44.46	61.76	44.00	16.21	399,255.36	747,129.16	
9,121.00	20.93	355.91	9,117.01	5,752.61	54.59	60.92	54.13	15.20	399,265.49	747,128.32	
9,152.00	25.06	355.74	9,145.54	5,781.14	66.66	60.03	66.21	13.32	399,277.56	747,127.43	
9,184.00	28.75	356.18	9,174.08	5,809.68	81.10	59.02	80.66	11.55	399,292.00	747,126.42	
9,215.00	32.27	357.58	9,200.78	5,836.38	96.81	58.17	96.38	11.58	399,307.71	747,125.57	
9,247.00	35.70	357.32	9,227.31	5,862.91	114.68	57.37	114.25	10.73	399,325.58	747,124.77	
9,279.00	38.78	358.46	9,252.78	5,888.38	134.03	56.67	133.60	9.86	399,344.93	747,124.07	
9,310.00	41.42	357.32	9,276.49	5,912.09	153.98	55.93	153.56	8.84	399,364.88	747,123.33	
9,341.00	44.32	358.20	9,299.21	5,934.81	175.05	55.11	174.64	9.55	399,385.95	747,122.51	
9,372.00	48.01	358.46	9,320.68	5,956.28	197.40	54.46	196.99	11.92	399,408.30	747,121.86	
9,404.00	51.35	358.73	9,341.38	5,976.98	221.79	53.86	221.38	10.46	399,432.69	747,121.26	
9,435.00	53.73	358.46	9,360.23	5,995.83	246.39	53.26	245.98	7.71	399,457.29	747,120.66	
9,467.00	55.84	358.64	9,378.68	6,014.28	272.52	52.60	272.12	6.61	399,483.42	747,120.00	
9,499.00	59.00	358.55	9,395.91	6,031.51	299.47	51.93	299.08	9.88	399,510.37	747,119.33	
9,530.00	63.14	359.34	9,410.91	6,046.51	326.60	51.44	326.20	13.54	399,537.50	747,118.84	
9,562.00	67.80	359.69	9,424.19	6,059.79	355.70	51.19	355.30	14.60	399,566.60	747,118.59	
9,568.00	68.85	359.87	9,426.40	6,062.00	361.27	51.17	360.88	17.72	399,572.17	747,118.57	

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RKB to GL 30' @ 3364.40ft (Cactus #123)
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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)	
9,600.00	74.04	359.78	9,436.58	6,072.18	391.60	51.08	391.21	16.22	399,602.50	747,118.48	
9,632.00	76.15	359.60	9,444.81	6,080.41	422.52	50.91	422.13	6.62	399,633.42	747,118.31	
9,663.00	77.38	0.57	9,451.91	6,087.51	452.70	50.96	452.30	5.00	399,663.60	747,118.36	
9,695.00	79.40	0.22	9,458.35	6,093.95	484.04	51.17	483.64	6.40	399,694.94	747,118.57	
9,726.00	82.39	359.96	9,463.26	6,098.86	514.65	51.22	514.25	9.68	399,725.55	747,118.62	
9,758.00	85.91	359.96	9,466.52	6,102.12	546.47	51.20	546.07	11.00	399,757.37	747,118.60	
9,789.00	88.55	0.48	9,468.02	6,103.62	577.43	51.32	577.03	8.68	399,788.33	747,118.72	
9,821.00	88.81	0.22	9,468.75	6,104.35	609.42	51.51	609.02	1.15	399,820.32	747,118.91	
9,852.00	90.13	359.78	9,469.04	6,104.64	640.42	51.51	640.02	4.49	399,851.32	747,118.91	
9,883.00	90.66	358.11	9,468.83	6,104.43	671.42	50.94	671.01	5.65	399,882.32	747,118.34	
9,947.00	91.19	357.23	9,467.79	6,103.39	735.35	48.34	734.97	1.60	399,946.25	747,115.74	
10,041.00	87.49	353.45	9,468.88	6,104.48	829.00	40.71	828.67	5.63	400,039.90	747,108.11	
10,136.00	88.37	353.80	9,472.31	6,107.91	923.35	30.17	923.10	1.00	400,134.25	747,097.57	
10,230.00	88.02	354.94	9,475.27	6,110.87	1,016.85	20.95	1,016.67	1.27	400,227.75	747,088.35	
10,324.00	88.29	353.98	9,478.29	6,113.89	1,110.36	11.88	1,110.24	1.06	400,321.26	747,079.28	
10,418.00	88.55	354.51	9,480.89	6,116.49	1,203.85	2.46	1,203.80	0.63	400,414.75	747,069.86	
10,513.00	89.52	356.97	9,482.49	6,118.09	1,298.57	-4.60	1,298.57	2.78	400,509.47	747,062.80	
10,607.00	89.87	357.76	9,482.99	6,118.59	1,392.47	-8.92	1,392.50	0.92	400,603.37	747,058.48	
10,702.00	90.57	357.23	9,482.62	6,118.22	1,487.37	-13.07	1,487.43	0.92	400,698.27	747,054.33	
10,798.00	91.28	357.05	9,481.07	6,116.67	1,583.24	-17.86	1,583.33	0.76	400,794.14	747,049.54	
10,893.00	89.34	357.67	9,480.56	6,116.16	1,678.14	-22.24	1,678.25	-2.14	400,889.04	747,045.16	
10,989.00	88.90	357.23	9,482.03	6,117.63	1,774.03	-26.51	1,774.18	0.65	400,984.93	747,040.89	
11,085.00	89.16	358.11	9,483.66	6,119.26	1,869.93	-30.41	1,870.11	0.96	401,080.83	747,036.99	
11,181.00	90.48	358.02	9,483.96	6,119.56	1,965.88	-33.65	1,966.07	1.38	401,176.78	747,033.75	
11,276.00	91.01	357.93	9,482.72	6,118.32	2,060.81	-37.01	2,061.03	0.57	401,271.71	747,030.39	
11,372.00	91.10	357.41	9,480.96	6,116.56	2,156.71	-40.91	2,156.96	0.55	401,367.61	747,026.49	
11,468.00	90.40	357.49	9,479.70	6,115.30	2,252.61	-45.18	2,252.88	0.73	401,463.51	747,022.22	

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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)
11,563.00	91.28	357.93	9,478.31	6,113.91	2,347.52	-48.97	2,347.82	1.04	401,558.42	747,018.43
11,658.00	94.00	359.60	9,473.93	6,109.53	2,442.39	-51.02	2,442.70	3.36	401,653.29	747,016.38
11,722.00	92.68	359.25	9,470.20	6,105.80	2,506.27	-51.66	2,506.59	2.13	401,717.17	747,015.74
11,786.00	91.28	359.08	9,467.99	6,103.59	2,570.23	-52.59	2,570.55	2.20	401,781.13	747,014.81
11,850.00	91.98	359.34	9,466.17	6,101.77	2,634.19	-53.48	2,634.52	1.17	401,845.09	747,013.92
11,945.00	89.96	359.60	9,464.56	6,100.16	2,729.17	-54.36	2,729.50	2.14	401,940.07	747,013.04
12,041.00	90.04	359.34	9,464.56	6,100.16	2,825.17	-55.24	2,825.50	0.28	402,036.07	747,012.16
12,137.00	87.93	359.08	9,466.26	6,101.86	2,921.14	-56.57	2,921.48	2.21	402,132.04	747,010.83
12,232.00	88.29	358.11	9,469.40	6,105.00	3,016.06	-58.89	3,016.41	1.09	402,226.96	747,008.51
12,328.00	86.09	356.70	9,474.10	6,109.70	3,111.83	-63.23	3,112.22	2.72	402,322.73	747,004.17
12,347.00	86.00	357.09	9,475.41	6,111.01	3,130.76	-64.26	3,131.16	2.10	402,341.66	747,003.14
12,443.00	88.55	357.93	9,479.98	6,115.58	3,226.55	-68.43	3,226.98	2.80	402,437.45	746,998.97
12,538.00	91.89	359.27	9,479.61	6,115.21	3,321.51	-70.75	3,321.95	3.79	402,532.41	746,996.65
12,633.00	94.09	358.83	9,474.66	6,110.26	3,416.36	-72.32	3,416.81	2.36	402,627.26	746,995.08
12,697.00	94.88	0.22	9,469.65	6,105.25	3,480.16	-72.85	3,480.61	2.49	402,691.06	746,994.55
12,761.00	93.65	0.43	9,464.89	6,100.49	3,543.98	-72.49	3,544.42	1.95	402,754.88	746,994.91
12,825.00	92.51	0.59	9,461.45	6,097.05	3,607.88	-71.92	3,608.32	1.80	402,818.78	746,995.48
12,920.00	91.54	1.06	9,458.10	6,093.70	3,702.81	-70.55	3,703.24	1.13	402,913.71	746,996.85
13,016.00	91.28	0.63	9,455.74	6,091.34	3,798.77	-69.14	3,799.19	0.52	403,009.67	746,998.26
13,112.00	90.75	1.93	9,454.03	6,089.63	3,894.73	-66.99	3,895.13	1.46	403,105.63	747,000.41
13,207.00	91.45	0.89	9,452.21	6,087.81	3,989.68	-64.65	3,990.06	1.32	403,200.58	747,002.75
13,271.00	89.69	1.12	9,451.57	6,087.17	4,053.67	-63.53	4,054.03	2.77	403,264.57	747,003.87
13,303.00	89.87	0.91	9,451.70	6,087.30	4,085.66	-62.96	4,086.02	0.86	403,296.56	747,004.44
13,399.00	87.67	358.40	9,453.76	6,089.36	4,181.63	-63.54	4,181.99	3.48	403,392.53	747,003.86
13,494.00	89.78	359.68	9,455.87	6,091.47	4,276.58	-65.13	4,276.95	2.60	403,487.48	747,002.27
13,590.00	91.45	359.11	9,454.84	6,090.44	4,372.57	-66.15	4,372.94	1.84	403,583.47	747,001.25
13,686.00	93.12	358.40	9,451.01	6,086.61	4,468.46	-68.23	4,468.85	1.89	403,679.36	746,999.17

Company: EOG Resources, Inc.
Project: Lea County
Site: Lomas Rojas "26" State Com
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: RKB to GL 30' @ 3364.40ft (Cactus #123)
MD Reference: RKB to GL 30' @ 3364.40ft (Cactus #123)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
13,752.00	93.47	358.76	9,447.22	6,082.82	4,534.33	-69.86	4,534.73	0.76	403,745.23	746,997.54
13,800.00	93.47	358.76	9,444.32	6,079.92	4,582.24	-70.90	4,582.64	0.00	403,793.14	746,996.50
BHL-13800.00°MD,93.47°INC,358.76°AZI, 9444.32°TVD, 4582.64°VS, 4582.24°N, -70.90°E										

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
Lomas#5H_PBHL	0.00	0.00	9,541.97	4,621.10	-34.80	403,832.000	747,032.600	32° 6' 27.854 N	103° 32' 7.862 W
- survey misses target center by 111.13ft at 13800.00ft MD (9444.32 TVD, 4582.24 N, -70.90 E) - Point									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
13,800.00	9,444.32	4,582.24	-70.90	BHL-13800.00°MD,93.47°INC,358.76°AZI, 9444.32°TVD, 4582.64°VS, 4

Checked By: _____ Approved By: _____ Date: _____