Results of Directional Survey

API number:	30-025-40580			
OGRID:		Operator:	EOG RESOURCES INC	
		Property:	BLACK BEAR 36 STATE	# 4H

surface	ULSTR:	O	36	T	25S	R	33E
				220	FSL	1340	FEL
BH Loc	ULSTR:	B	36	T	25S	R	33E
14390 MD		9481.9 TVD		236	FNL	1671	FEL
				5044	FSL		
Top Perf/OH	ULSTR:	O	36	T	25S	R	33E
9987 MD		9595.7 TVD		645	FSL	1629	FEL
Bot Perf/OH	ULSTR:	B	36	T	25S	R	33E
14278 MD		9485.5 TVD		348	FNL	1673	FEL
				4932	FSL		

	MD	N/S	E/W	VD
	9983	421.30	-288.80	9595.8
TOP PERFS/OH	**9987**	425.30	-288.81	9595.74
	10015	453.30	-288.90	9595.30
	14225	4658.90	-333.90	9486.20
BOT PERFS/OH	**14278**	4711.90	-333.08	9485.45
	14296.1	4730.00	-332.80	9485.20

NEXT TO LAST	14347	4780.80	-332.20	9483.60
LAST READING	14390	4823.80	-331.40	9481.90
TD	**14390**	4823.80	-331.40	9481.90

Surface Location	220	FS	1340	FE
Projected BHL	5044	FS	1671	FE
Location of				
Top Perfs/OH	645	FS	1629	FE
Bottom Perfs/OH	4932	FS	1673	FE

SUMMARY of Subsurface Locations

Surface Location	O-36-25S-33E	220	FS	1340	FE	Vert. Depth
Top Perfs/OH	O-36-25S-33E	645	FS	1629	FE	9595.74
Bottom Perfs/OH	B-36-25S-33E	4932	FS	1673	FE	9485.45
Projected TD	B-36-25S-33E	5044	FS	1671	FE	9481.90

DEC 20 2012

eog resources

EOG Resources, Inc.

Lea County
Black Bear "36" State
#4H
OH

SUR: O-36-25s-33e, 220/S & 1340/E
BHL: B-5044/S & 1671/E
API # 30-025-40580

Design: OH

PathfinderX & Y Report

02 August, 2012

PATHFINDER®
A Schlumberger Company

Company:	EOG Resources, Inc.	**Local Co-ordinate Reference:**	Well #4H
Project:	Lea County	**TVD Reference:**	KB = 25 @ 3348.9usft (Cactus 139)
Site:	Black Bear "36" State	**MD Reference:**	KB = 25 @ 3348.9usft (Cactus 139)
Well:	#4H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

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 Black Bear "36" State

Site Position:		**Northing:**	393,927.000 usft	**Latitude:**	32.080
From:	Map	**Easting:**	750,632.000 usft	**Longitude:**	-103.524
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.43 °

Well #4H

Well Position	**+N/-S**	0.0 usft	**Northing:**	393,853.000 usft	**Latitude:**	32.080
	+E/-W	0.0 usft	**Easting:**	751,483.000 usft	**Longitude:**	-103.521
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,323.9 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/15/2012	7.43	60.06	48,484

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	356.02

Survey Program **Date** 8/2/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,063.0	14,390.0	MWD #1 (OH)	MWD	MWD - Standard

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Well:	#4H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
920.0	0.96	162.33	919.9	-2,429.0	-11.7	1.1	-11.7	0.00	393,841.31	751,484.12
1,063.0	0.97	178.82	1,062.9	-2,286.0	-14.0	1.5	-14.1	0.19	393,838.96	751,484.51
1,249.0	0.18	212.48	1,248.9	-2,100.0	-15.9	1.4	-15.9	0.44	393,837.14	751,484.38
1,433.0	0.09	356.00	1,432.9	-1,916.0	-16.0	1.2	-16.0	0.14	393,837.04	751,484.22
1,621.0	0.88	326.58	1,620.9	-1,728.0	-14.6	0.4	-14.6	0.43	393,838.39	751,483.41
1,811.0	0.97	330.80	1,810.9	-1,538.0	-12.0	-1.2	-11.9	0.06	393,841.01	751,481.83
2,001.0	0.88	316.28	2,000.8	-1,348.1	-9.5	-3.0	-9.3	0.13	393,843.47	751,480.03
2,190.0	0.62	1.27	2,189.8	-1,159.1	-7.5	-3.9	-7.2	0.33	393,845.54	751,479.05
2,380.0	0.88	19.99	2,379.8	-969.1	-5.1	-3.4	-4.8	0.19	393,847.94	751,479.57
2,568.0	0.44	69.10	2,567.8	-781.1	-3.4	-2.3	-3.3	0.36	393,849.55	751,480.74
2,757.0	0.35	154.30	2,756.8	-592.1	-3.7	-1.3	-3.6	0.29	393,849.29	751,481.67
2,947.0	1.32	36.04	2,946.8	-402.1	-2.5	0.2	-2.5	0.80	393,850.54	751,483.21
3,137.0	1.85	84.04	3,136.7	-212.2	-0.4	4.5	-0.7	0.72	393,852.63	751,487.55
3,327.0	0.26	7.68	3,326.7	-22.2	0.4	7.7	-0.2	0.95	393,853.37	751,490.66
3,516.0	0.53	341.76	3,515.7	166.8	1.6	7.4	1.1	0.17	393,854.63	751,490.44
3,705.0	0.97	276.77	3,704.7	355.8	2.6	5.6	2.3	0.47	393,855.65	751,488.58
3,893.0	0.35	302.25	3,892.6	543.7	3.1	3.5	2.9	0.36	393,856.14	751,486.51
4,083.0	1.06	47.72	4,082.6	733.7	4.6	4.3	4.3	0.63	393,857.63	751,487.32
4,273.0	0.62	251.60	4,272.6	923.7	5.5	4.6	5.2	0.87	393,858.49	751,487.65
4,461.0	0.35	20.18	4,460.6	1,111.7	5.7	3.9	5.4	0.47	393,858.71	751,486.88
4,651.0	1.41	322.17	4,650.6	1,301.7	8.1	2.6	7.9	0.66	393,861.10	751,485.64
4,841.0	1.76	157.80	4,840.6	1,491.7	7.2	2.3	7.1	1.65	393,860.25	751,485.31
5,002.0	1.93	188.59	5,001.5	1,652.6	2.3	2.8	2.1	0.62	393,855.28	751,485.84
5,113.0	2.11	199.12	5,112.4	1,763.5	-1.5	1.9	-1.6	0.37	393,851.50	751,484.89
5,302.0	2.29	220.51	5,301.3	1,952.4	-7.7	-1.7	-7.5	0.44	393,845.34	751,481.30
5,492.0	5.36	229.98	5,490.8	2,141.9	-16.3	-11.0	-15.5	1.64	393,836.74	751,472.04
5,681.0	6.33	235.44	5,678.9	2,330.0	-27.8	-26.3	-26.0	0.59	393,825.16	751,456.70

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Well:	#4H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
5,870.0	6.86	240.88	5,866.6	2,517.7	-39.2	-44.7	-36.1	0.43	393,813.75	751,438.25
6,060.0	6.16	239.78	6,055.4	2,706.5	-49.9	-63.5	-45.4	0.37	393,803.10	751,419.53
6,249.0	5.72	237.41	6,243.4	2,894.5	-60.1	-80.2	-54.4	0.27	393,792.92	751,402.83
6,439.0	5.36	239.52	6,432.5	3,083.6	-69.7	-95.8	-62.9	0.22	393,783.32	751,387.21
6,629.0	5.63	243.18	6,621.6	3,272.7	-78.4	-111.8	-70.4	0.23	393,774.62	751,371.24
6,818.0	6.77	244.66	6,809.5	3,460.6	-87.3	-130.1	-78.1	0.61	393,765.66	751,352.90
7,006.0	5.80	244.66	6,996.4	3,647.5	-96.1	-148.7	-85.6	0.52	393,756.86	751,334.30
7,195.0	5.10	240.85	7,184.5	3,835.6	-104.3	-164.7	-92.7	0.42	393,748.68	751,318.33
7,384.0	4.92	242.00	7,372.8	4,023.9	-112.2	-179.2	-99.5	0.11	393,740.78	751,303.84
7,573.0	4.84	242.47	7,561.1	4,212.2	-119.7	-193.4	-106.0	0.05	393,733.29	751,289.61
7,759.0	5.54	241.52	7,746.3	4,397.4	-127.6	-208.2	-112.9	0.38	393,725.38	751,274.76
7,948.0	5.36	238.47	7,934.5	4,585.6	-136.6	-223.8	-120.7	0.18	393,716.41	751,259.22
8,138.0	5.72	244.05	8,123.6	4,774.7	-145.4	-239.9	-128.4	0.34	393,707.63	751,243.14
8,326.0	5.54	240.77	8,310.7	4,961.8	-153.9	-256.2	-135.8	0.20	393,699.10	751,226.80
8,515.0	5.10	243.09	8,498.9	5,150.0	-162.2	-271.7	-142.9	0.26	393,690.84	751,211.35
8,703.0	2.37	247.11	8,686.5	5,337.6	-167.5	-282.7	-147.5	1.46	393,685.55	751,200.31
8,893.0	0.53	259.25	8,876.4	5,527.5	-169.1	-287.2	-148.8	0.98	393,683.86	751,195.83
9,067.0	0.97	218.38	9,050.4	5,701.5	-170.4	-288.9	-150.0	0.38	393,682.55	751,194.12
9,139.0	2.29	354.54	9,122.4	5,773.5	-169.5	-289.4	-149.0	4.26	393,683.51	751,193.61
KOP - 9139.0 'MD, 9122.4 'TVD, -169.5 'N, -289.4 'E										
9,169.0	5.72	4.04	9,152.3	5,803.4	-167.4	-289.3	-146.9	11.61	393,685.59	751,193.66
9,201.0	9.67	6.51	9,184.0	5,835.1	-163.1	-288.9	-142.7	12.38	393,689.86	751,194.07
9,232.0	14.60	7.75	9,214.3	5,865.4	-156.7	-288.1	-136.3	15.92	393,696.32	751,194.90
9,264.0	19.52	7.01	9,244.9	5,896.0	-147.4	-286.9	-127.1	15.39	393,705.63	751,196.09
9,296.0	23.83	5.66	9,274.6	5,925.7	-135.6	-285.6	-115.5	13.56	393,717.37	751,197.38
9,327.0	27.08	3.59	9,302.6	5,953.7	-122.4	-284.6	-102.3	10.87	393,730.65	751,198.44
9,359.0	30.51	1.64	9,330.6	5,981.7	-107.0	-283.9	-87.0	11.11	393,746.04	751,199.13

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Well:	#4H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
9,390.0	33.41	0.11	9,356.9	6,008.0	-90.6	-283.6	-70.7	9.71	393,762.45	751,199.37
9,421.0	37.11	358.81	9,382.2	6,033.3	-72.7	-283.8	-52.8	12.18	393,780.34	751,199.20
9,452.0	40.63	358.23	9,406.4	6,057.5	-53.2	-284.3	-33.4	11.42	393,799.78	751,198.69
9,484.0	43.26	357.60	9,430.2	6,081.3	-31.8	-285.1	-12.0	8.32	393,821.16	751,197.91
9,515.0	46.69	356.96	9,452.1	6,103.2	-10.0	-286.1	9.9	11.16	393,843.04	751,196.87
9,545.0	50.56	356.53	9,471.9	6,123.0	12.5	-287.4	32.4	12.94	393,865.51	751,195.59
9,576.0	53.82	356.22	9,490.9	6,142.0	36.9	-289.0	56.9	10.55	393,889.95	751,194.04
9,607.0	56.28	356.24	9,508.7	6,159.8	62.3	-290.6	82.3	7.94	393,915.30	751,192.37
9,639.0	60.06	356.61	9,525.5	6,176.6	89.4	-292.3	109.5	11.85	393,942.43	751,190.67
9,670.0	63.40	357.90	9,540.2	6,191.3	116.7	-293.6	136.8	11.38	393,969.70	751,189.37
9,702.0	67.27	359.45	9,553.6	6,204.7	145.8	-294.3	165.8	12.87	393,998.76	751,188.70
9,734.0	71.49	0.96	9,564.8	6,215.9	175.7	-294.2	195.7	13.91	394,028.71	751,188.82
9,764.0	74.39	1.78	9,573.6	6,224.7	204.4	-293.5	224.2	10.01	394,057.37	751,189.50
9,796.0	77.82	1.89	9,581.3	6,232.4	235.4	-292.5	255.1	10.72	394,088.42	751,190.50
9,827.0	80.46	1.63	9,587.2	6,238.3	265.8	-291.6	285.4	8.56	394,118.85	751,191.43
9,858.0	83.27	1.81	9,591.6	6,242.7	296.5	-290.6	316.0	9.08	394,149.52	751,192.35
9,890.0	86.70	1.37	9,594.4	6,245.5	328.4	-289.8	347.7	10.81	394,181.38	751,193.24
9,922.0	88.99	0.70	9,595.6	6,246.7	360.3	-289.2	379.5	7.46	394,213.35	751,193.82
9,952.0	89.87	0.34	9,595.9	6,247.0	390.3	-288.9	409.4	3.17	394,243.34	751,194.09
9,982.0	90.46	0.01	9,595.8	6,246.9	420.3	-288.8	439.4	2.25	394,273.34	751,194.18
LP - 9982.0 'MD, 9595.8 'TVD, 420.3 'N, -288.8 'E										
9,983.0	90.48	0.00	9,595.8	6,246.9	421.3	-288.8	440.4	2.25	394,274.34	751,194.18
10,015.0	91.10	359.84	9,595.3	6,246.4	453.3	-288.9	472.3	2.00	394,306.34	751,194.14
10,078.0	91.80	358.84	9,593.7	6,244.8	516.3	-289.6	535.1	1.94	394,369.31	751,193.41
10,171.0	92.07	358.31	9,590.6	6,241.7	609.2	-291.9	628.0	0.64	394,462.23	751,191.10
10,265.0	91.54	357.96	9,587.6	6,238.7	703.1	-295.0	721.9	0.68	394,556.14	751,188.04
10,360.0	92.77	357.71	9,584.1	6,235.2	798.0	-298.5	816.8	1.32	394,651.00	751,184.45

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,454.0	91.36	356.59	9,580.7	6,231.8	891.8	-303.2	910.7	1.92	394,744.82	751,179.78
10,549.0	90.22	356.39	9,579.4	6,230.5	986.6	-309.0	1,005.7	1.22	394,839.63	751,173.97
10,643.0	90.84	355.86	9,578.5	6,229.6	1,080.4	-315.4	1,099.7	0.87	394,933.41	751,167.62
10,736.0	91.71	357.58	9,576.4	6,227.5	1,173.2	-320.7	1,192.6	2.07	395,026.23	751,162.30
10,830.0	93.65	359.26	9,572.0	6,223.1	1,267.1	-323.3	1,286.4	2.73	395,120.08	751,159.71
10,924.0	92.42	359.97	9,567.0	6,218.1	1,360.9	-323.9	1,380.1	1.51	395,213.95	751,159.08
11,018.0	91.80	358.98	9,563.6	6,214.7	1,454.9	-324.8	1,473.9	1.24	395,307.88	751,158.21
11,112.0	92.42	359.09	9,560.1	6,211.2	1,548.8	-326.4	1,567.7	0.67	395,401.80	751,156.63
11,206.0	90.57	357.62	9,557.7	6,208.8	1,642.7	-329.1	1,661.6	2.51	395,495.72	751,153.93
11,301.0	89.25	359.74	9,557.8	6,208.9	1,737.7	-331.3	1,756.5	2.63	395,590.69	751,151.75
11,395.0	91.28	0.15	9,557.4	6,208.5	1,831.7	-331.3	1,850.2	2.20	395,684.68	751,151.66
11,489.0	90.92	0.72	9,555.6	6,206.7	1,925.7	-330.6	1,944.0	0.72	395,778.66	751,152.37
11,584.0	91.63	1.82	9,553.5	6,204.6	2,020.6	-328.5	2,038.5	1.38	395,873.61	751,154.47
11,679.0	91.28	2.54	9,551.1	6,202.2	2,115.5	-324.9	2,132.9	0.84	395,968.51	751,158.09
11,773.0	91.71	2.57	9,548.6	6,199.7	2,209.4	-320.7	2,226.3	0.46	396,062.39	751,162.28
11,867.0	91.89	357.39	9,545.6	6,196.7	2,303.3	-320.8	2,320.0	5.51	396,156.31	751,162.24
11,962.0	91.45	354.49	9,542.9	6,194.0	2,398.0	-327.5	2,415.0	3.09	396,251.02	751,155.52
12,056.0	90.22	357.13	9,541.5	6,192.6	2,491.7	-334.3	2,508.9	3.10	396,344.75	751,148.65
12,150.0	91.36	359.90	9,540.2	6,191.3	2,585.7	-336.8	2,602.8	3.19	396,438.70	751,146.22
12,245.0	89.16	357.24	9,539.8	6,190.9	2,680.7	-339.2	2,697.7	3.63	396,533.65	751,143.85
12,340.0	91.28	357.35	9,539.4	6,190.5	2,775.5	-343.6	2,792.7	2.23	396,628.54	751,139.37
12,434.0	91.98	356.89	9,536.7	6,187.8	2,869.4	-348.4	2,886.6	0.89	396,722.38	751,134.64
12,529.0	94.70	0.33	9,531.2	6,182.3	2,964.2	-350.7	2,981.3	4.61	396,817.17	751,132.34
12,624.0	93.83	0.47	9,524.1	6,175.2	3,058.9	-350.0	3,075.8	0.93	396,911.90	751,133.00
12,719.0	91.89	0.94	9,519.4	6,170.5	3,153.8	-348.8	3,170.4	2.10	397,006.77	751,134.17
12,814.0	91.36	1.70	9,516.7	6,167.8	3,248.7	-346.6	3,264.9	0.98	397,101.71	751,136.36
12,908.0	90.66	0.43	9,515.1	6,166.2	3,342.7	-344.9	3,358.5	1.54	397,195.68	751,138.10

Company:	EOG Resources, Inc.	**Local Co-ordinate Reference:**	Well #4H
Project:	Lea County	**TVD Reference:**	KB = 25 @ 3348.9usft (Cactus 139)
Site:	Black Bear "36" State	**MD Reference:**	KB = 25 @ 3348.9usft (Cactus 139)
Well:	#4H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,000.0	89.16	0.38	9,515.2	6,166.3	3,434.7	-344.2	3,450.3	1.63	397,287.67	751,138.75
13,095.0	90.31	358.67	9,515.6	6,166.7	3,529.7	-345.0	3,545.1	2.17	397,382.66	751,137.97
13,189.0	91.19	357.45	9,514.4	6,165.5	3,623.6	-348.2	3,639.0	1.60	397,476.60	751,134.78
13,284.0	92.95	0.55	9,511.0	6,162.1	3,718.5	-349.9	3,733.8	3.75	397,571.51	751,133.13
13,376.0	92.51	0.61	9,506.6	6,157.7	3,810.4	-348.9	3,825.4	0.48	397,663.40	751,134.06
13,470.0	91.54	1.19	9,503.3	6,154.4	3,904.3	-347.5	3,919.0	1.20	397,757.32	751,135.53
13,565.0	92.59	0.33	9,499.8	6,150.9	3,999.3	-346.2	4,013.6	1.43	397,852.25	751,136.79
13,658.0	92.15	0.83	9,496.0	6,147.1	4,092.2	-345.3	4,106.3	0.72	397,945.17	751,137.73
13,750.0	92.24	1.70	9,492.5	6,143.6	4,184.1	-343.2	4,197.8	0.95	398,037.08	751,139.76
13,845.0	90.04	1.74	9,490.6	6,141.7	4,279.0	-340.4	4,292.3	2.32	398,132.01	751,142.61
13,940.0	91.89	1.03	9,489.0	6,140.1	4,374.0	-338.1	4,386.9	2.09	398,226.96	751,144.91
14,035.0	91.71	0.90	9,486.0	6,137.1	4,468.9	-336.5	4,481.5	0.23	398,321.90	751,146.51
14,130.0	88.90	0.57	9,485.5	6,136.6	4,563.9	-335.3	4,576.1	2.98	398,416.88	751,147.73
14,225.0	90.31	1.05	9,486.2	6,137.3	4,658.9	-333.9	4,670.8	1.57	398,511.87	751,149.07
14,296.1	91.30	0.71	9,485.2	6,136.3	4,730.0	-332.8	4,741.6	1.47	398,582.95	751,150.16
Hardline Crossing - 14296.1 'MD, 91.30 °INC, 9485.2 'TVD, 4730.0 'N, -332.8 'E										
14,320.0	91.63	0.60	9,484.5	6,135.6	4,753.8	-332.6	4,765.5	1.47	398,606.84	751,150.44
14,347.0	92.33	1.07	9,483.6	6,134.7	4,780.8	-332.2	4,792.3	3.12	398,633.82	751,150.83
14,390.0	92.33	1.07	9,481.9	6,133.0	4,823.8	-331.4	4,835.1	0.00	398,676.78	751,151.63
PROJECTED BHL - 14390.0 'MD, 9481.9 'TVD, 4823.8 'N, -331.4 'E										

Company:	EOG Resources, Inc.	**Local Co-ordinate Reference:**	Well #4H
Project:	Lea County	**TVD Reference:**	KB = 25 @ 3348.9usft (Cactus 139)
Site:	Black Bear "36" State	**MD Reference:**	KB = 25 @ 3348.9usft (Cactus 139)
Well:	#4H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
9,139.0	9,122.4	-169.5	-289.4	KOP - 9139.0 'MD, 9122.4 'TVD, -169.5 'N, -289.4 'E
9,982.0	9,595.8	420.3	-288.8	LP - 9982.0 'MD, 9595.8 'TVD, 420.3 'N, -288.8 'E
14,296.1	9,485.2	4,730.0	-332.8	Hardline Crossing - 14296.1 'MD, 91.30 °INC, 9485.2 'TVD, 4730.0 'N, -332.8 'I
14,390.0	9,481.9	4,823.8	-331.4	PROJECTED BHL - 14390.0 'MD, 9481.9 'TVD, 4823.8 'N, -331.4 'E

Checked By: _____ Approved By: _____ Date: _____