

Results of Directional Survey

API number:	30-025-40370		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	BLACK BEAR 36 STATE # 3H

surface	ULSTR:	P	36	T	25S	R	33E
				220	FSL	430	FEL

BH Loc	ULSTR:	A	36	T	25S	R	33E
14385	MD	9502.1	TVD	225	FNL	471	FEL
				5055	FSL		

Top Perf/OH	ULSTR:	P	36	T	25S	R	33E
9970	MD	9567.3	TVD	643	FSL	445	FEL

Bot Perf/OH	ULSTR:	A	36	T	25S	R	33E
14261	MD	9501.5	TVD	349	FNL	475	FEL
				4931	FSL		

	MD	N/S	E/W	VD
	9897	349.60	-15.10	9568.7
TOP PERFS/OH	9970	422.60	-15.18	9567.26
	9993	445.60	-15.20	9566.80
	14230	4679.60	-46.40	9501.10
BOT PERFS/OH	14261	4710.60	-45.29	9501.49
	14286	4735.60	-44.40	9501.80

NEXT TO LAST	14348	4797.50	-42.30	9502.20
LAST READING	14385	4834.50	-40.80	9502.10
TD	14385	4834.50	-40.80	9502.10

Surface Location	220	FS	430	FE
Projected BHL	5055	FS	471	FE
Location of				
Top Perfs/OH	643	FS	445	FE
Bottom Perfs/OH	4931	FS	475	FE

SUMMARY of Subsurface Locations

Surface Location	P-36-25S-33E	220	FS	430	FE	Vert. Depth
Top Perfs/OH	P-36-25S-33E	643	FS	445	FE	9567.26
Bottom Perfs/OH	A-36-25S-33E	4931	FS	475	FE	9501.49
Projected TD	A-36-25S-33E	5055	FS	471	FE	9502.10



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HOBBS OCD

EOG Resources, Inc.

Lea County

Black Bear "36" State

#3H

OH

SUR: P-36-25s-33e, 220/S & 430/E
BHL: A-36-25s-33e, 5055/S & 471/E
API # 30-025-40370

Design: OH

PathfinderX & Y Report

12 September, 2012

PATHFINDER[®]

A Schlumberger Company

Company: EOG Resources, Inc.
Project: Lea County
Site: Black Bear "36" State
Well: #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #3H
KB = 25 @ 3348.0usft (Cactus 139)
KB = 25 @ 3348.0usft (Cactus 139)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Project Lea County

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Black Bear "36" State

Site Position:	Northings: 393,927.000 usft	Latitude: 32.080437
From: Map	Easting: 750,632.000 usft	Longitude: -103.524134
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.43 °

Well #3H

Well Position	+N/-S 0.0 usft	Northings: 393,859.000 usft	Latitude: 32.080214
	+E/-W 0.0 usft	Easting: 752,393.000 usft	Longitude: -103.518450
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level: 3,323.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/30/2011	7.49	60.08	48,528

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	359.58

Survey Program Date 9/12/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,063.0	14,385.0	MWD #1 (OH)	MWD	MWD - Standard

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Lea County	TVD Reference:	KB = 25 @ 3348.0usft (Cactus 139)
Site:	Black Bear "36" State	MD Reference:	KB = 25 @ 3348.0usft (Cactus 139)
Well:	#3H	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)	
946.0	1.24	164.56	945.8	-2,402.2	-13.7	9.7	-13.7	0.00	393,845.34	752,402.72	
1,063.0	1.32	163.77	1,062.8	-2,285.2	-16.2	10.4	-16.3	0.07	393,842.83	752,403.43	
1,248.0	0.35	141.09	1,247.8	-2,100.2	-18.7	11.4	-18.7	0.54	393,840.34	752,404.38	
1,432.0	1.06	332.96	1,431.8	-1,916.2	-17.6	11.0	-17.7	0.76	393,841.42	752,403.96	
1,619.0	1.06	322.85	1,618.7	-1,729.3	-14.7	9.1	-14.7	0.10	393,844.34	752,402.13	
1,810.0	1.32	328.03	1,809.7	-1,538.3	-11.4	6.9	-11.4	0.15	393,847.61	752,399.90	
1,999.0	1.06	327.77	1,998.7	-1,349.3	-8.1	4.8	-8.1	0.14	393,850.94	752,397.82	
2,189.0	1.23	323.02	2,188.6	-1,159.4	-4.9	2.7	-5.0	0.10	393,854.05	752,395.65	
2,378.0	1.32	333.75	2,377.6	-970.4	-1.4	0.5	-1.4	0.13	393,857.63	752,393.47	
2,567.0	1.67	14.44	2,566.5	-781.5	3.2	0.2	3.2	0.58	393,862.25	752,393.19	
2,756.0	0.79	41.77	2,755.5	-592.5	6.9	1.7	6.9	0.55	393,865.89	752,394.75	
2,945.0	1.76	72.89	2,944.4	-403.6	8.7	5.4	8.7	0.61	393,867.71	752,398.39	
3,135.0	1.32	54.87	3,134.4	-213.6	10.8	10.0	10.8	0.34	393,869.83	752,402.97	
3,324.0	1.32	82.38	3,323.3	-24.7	12.4	13.9	12.3	0.33	393,871.37	752,406.91	
3,513.0	0.62	90.11	3,512.3	164.3	12.7	17.1	12.5	0.38	393,871.66	752,410.09	
3,703.0	0.35	157.35	3,702.3	354.3	12.1	18.3	12.0	0.31	393,871.12	752,411.34	
3,891.0	0.44	158.93	3,890.3	542.3	10.9	18.8	10.8	0.05	393,869.92	752,411.82	
4,080.0	0.88	75.61	4,079.3	731.3	10.6	20.5	10.4	0.50	393,869.60	752,413.49	
4,269.0	0.18	321.35	4,268.3	920.3	11.2	21.7	11.0	0.51	393,870.19	752,414.71	
4,458.0	0.09	352.73	4,457.2	1,109.2	11.6	21.5	11.4	0.06	393,870.57	752,414.50	
4,647.0	0.97	95.39	4,646.2	1,298.2	11.6	23.1	11.4	0.53	393,870.57	752,416.08	
4,837.0	1.58	119.21	4,836.2	1,488.2	10.1	27.0	9.9	0.42	393,869.14	752,419.96	
5,025.0	0.62	124.39	5,024.2	1,676.2	8.3	30.1	8.1	0.51	393,867.30	752,423.06	
5,202.0	0.88	264.14	5,201.2	1,853.2	7.6	29.5	7.4	0.80	393,866.62	752,422.50	
5,389.0	0.97	268.18	5,388.1	2,040.1	7.4	26.5	7.2	0.06	393,866.42	752,419.49	
5,577.0	0.88	269.32	5,576.1	2,228.1	7.4	23.5	7.2	0.05	393,866.35	752,416.46	
5,766.0	0.70	275.74	5,765.1	2,417.1	7.5	20.9	7.3	0.11	393,866.45	752,413.86	

Company: EOG Resources, Inc.
Project: Lea County
Site: Black Bear "36" State
Well: #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3348.0usft (Cactus 139)
MD Reference: KB = 25 @ 3348.0usft (Cactus 139)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)		
5,953.0	0.88	291.47	5,952.1	2,604.1	8.1	18.4	8.0	0.15	393,867.09	752,411.39		
6,142.0	1.32	247.44	6,141.0	2,793.0	7.8	15.0	7.7	0.49	393,866.79	752,408.02		
6,331.0	1.14	259.83	6,330.0	2,982.0	6.6	11.2	6.5	0.17	393,865.62	752,404.16		
6,519.0	1.14	259.48	6,518.0	3,170.0	6.0	7.5	5.9	0.00	393,864.95	752,400.48		
6,706.0	1.06	272.14	6,704.9	3,356.9	5.7	3.9	5.6	0.14	393,864.67	752,396.93		
6,895.0	1.14	242.61	6,893.9	3,545.9	4.9	0.5	4.9	0.30	393,863.88	752,393.51		
7,084.0	2.64	180.64	7,082.8	3,734.8	-0.3	-1.2	-0.3	1.23	393,858.66	752,391.79		
7,273.0	5.10	181.87	7,271.3	3,923.3	-13.1	-1.5	-13.1	1.30	393,845.91	752,391.47		
7,462.0	5.89	180.91	7,459.5	4,111.5	-31.2	-2.0	-31.2	0.42	393,827.81	752,391.04		
7,651.0	5.45	181.26	7,647.6	4,299.6	-49.9	-2.3	-49.8	0.23	393,809.14	752,390.69		
7,840.0	6.07	182.14	7,835.6	4,487.6	-68.8	-2.9	-68.8	0.33	393,790.19	752,390.12		
8,030.0	5.54	175.54	8,024.6	4,676.6	-88.0	-2.5	-88.0	0.45	393,771.00	752,390.46		
8,219.0	4.84	183.81	8,212.9	4,864.9	-105.0	-2.4	-105.0	0.54	393,753.95	752,390.64		
8,408.0	5.10	180.64	8,401.1	5,053.1	-121.4	-3.0	-121.4	0.20	393,737.60	752,390.01		
8,596.0	4.57	178.62	8,588.5	5,240.5	-137.2	-2.9	-137.2	0.30	393,721.75	752,390.10		
8,785.0	4.40	181.96	8,776.9	5,428.9	-152.0	-3.0	-152.0	0.16	393,706.98	752,390.03		
8,973.0	1.49	193.83	8,964.6	5,616.6	-161.6	-3.8	-161.6	1.57	393,697.40	752,389.20		
9,033.0	1.23	213.25	9,024.6	5,676.6	-162.9	-4.3	-162.9	0.88	393,696.10	752,388.66		
9,076.0	1.14	297.10	9,067.6	5,719.6	-163.1	-5.0	-163.0	3.69	393,695.91	752,388.03		
9,108.0	3.78	345.96	9,099.6	5,751.6	-161.9	-5.5	-161.9	9.84	393,697.08	752,387.49		
KOP - 9108.0 'MD, 9099.6 'TVD, -161.9 'N, -5.5 'E												
9,140.0	6.68	358.18	9,131.4	5,783.4	-159.0	-5.8	-159.0	9.66	393,699.96	752,387.17		
9,171.0	9.23	354.23	9,162.1	5,814.1	-154.8	-6.1	-154.7	8.41	393,704.24	752,386.87		
9,203.0	11.70	352.03	9,193.6	5,845.6	-149.0	-6.8	-148.9	7.82	393,710.01	752,386.16		
9,234.0	14.86	352.56	9,223.8	5,875.8	-141.9	-7.8	-141.9	10.20	393,717.06	752,385.21		
9,266.0	18.38	352.20	9,254.4	5,906.4	-132.9	-9.0	-132.8	11.00	393,726.13	752,383.99		
9,298.0	20.66	351.79	9,284.6	5,936.6	-122.3	-10.5	-122.2	7.14	393,736.72	752,382.50		

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Lea County	TVD Reference:	KB = 25 @ 3348.0usft (Cactus 139)
Site:	Black Bear "36" State	MD Reference:	KB = 25 @ 3348.0usft (Cactus 139)
Well:	#3H	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)
9,329.0	22.77	351.77	9,313.4	5,965.4	-110.9	-12.1	-110.8	6.81	393,748.07	752,380.86
9,355.0	25.50	353.52	9,337.1	5,989.1	-100.4	-13.5	-100.3	10.85	393,758.61	752,379.51
9,386.0	29.02	354.68	9,364.7	6,016.7	-86.3	-14.9	-86.2	11.48	393,772.74	752,378.06
9,418.0	34.21	355.40	9,391.9	6,043.9	-69.6	-16.4	-69.4	16.26	393,789.44	752,376.62
9,449.0	38.95	356.14	9,416.8	6,068.8	-51.1	-17.7	-51.0	15.36	393,807.86	752,375.26
9,481.0	42.82	357.77	9,441.0	6,093.0	-30.2	-18.8	-30.1	12.54	393,828.77	752,374.16
9,512.0	47.48	359.22	9,462.8	6,114.8	-8.3	-19.4	-8.1	15.39	393,850.73	752,373.59
9,543.0	51.79	359.28	9,482.9	6,134.9	15.3	-19.7	15.5	13.90	393,874.35	752,373.29
9,575.0	55.84	358.81	9,501.8	6,153.8	41.2	-20.1	41.3	12.71	393,900.17	752,372.85
9,607.0	60.59	358.59	9,518.6	6,170.6	68.4	-20.8	68.5	14.86	393,927.35	752,372.23
9,638.0	65.16	358.86	9,532.8	6,184.8	95.9	-21.4	96.1	14.76	393,954.93	752,371.62
9,653.8	67.49	358.81	9,539.1	6,191.1	110.4	-21.7	110.6	14.74	393,969.39	752,371.33
South Hardline Crossing - 9653.8 'MD, 67.49 'INC, 9539.1 'TVD, 110.4 'N, -21.7 'E										
9,669.0	69.73	358.77	9,544.7	6,196.7	124.5	-22.0	124.7	14.74	393,983.54	752,371.03
9,701.0	74.74	1.07	9,554.4	6,206.4	155.0	-22.0	155.2	17.09	394,014.01	752,370.99
9,733.0	79.93	2.25	9,561.4	6,213.4	186.2	-21.1	186.4	16.61	394,045.20	752,371.90
9,764.0	84.06	2.71	9,565.8	6,217.8	216.9	-19.8	217.0	13.40	394,075.86	752,373.23
9,803.0	87.58	2.66	9,568.6	6,220.6	255.7	-17.9	255.8	9.03	394,114.71	752,375.05
9,834.0	90.04	2.32	9,569.2	6,221.2	286.7	-16.6	286.8	8.01	394,145.67	752,376.40
LP - 9834.0 'MD, 9569.2 'TVD, 286.7 'N, -16.6 'E										
9,866.0	90.57	1.45	9,569.1	6,221.1	318.7	-15.5	318.8	3.18	394,177.66	752,377.45
9,897.0	90.92	0.19	9,568.7	6,220.7	349.6	-15.1	349.8	4.22	394,208.65	752,377.90
9,993.0	91.36	359.66	9,566.8	6,218.8	445.6	-15.2	445.7	0.72	394,304.63	752,377.77
10,088.0	91.63	1.52	9,564.3	6,216.3	540.6	-14.3	540.7	1.98	394,399.59	752,378.75
10,183.0	90.04	1.85	9,562.9	6,214.9	635.5	-11.5	635.6	1.71	394,494.53	752,381.54
10,278.0	90.75	1.96	9,562.2	6,214.2	730.5	-8.3	730.5	0.76	394,589.48	752,384.70
10,372.0	90.40	2.22	9,561.3	6,213.3	824.4	-4.9	824.4	0.46	394,683.41	752,388.13

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #3H
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Well:	#3H	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)	
10,468.0	90.48	0.05	9,560.6	6,212.6	920.4	-3.0	920.4	2.26	394,779.38	752,390.03	
10,563.0	90.22	359.78	9,560.0	6,212.0	1,015.4	-3.1	1,015.4	0.39	394,874.38	752,389.89	
10,657.0	88.72	359.12	9,560.9	6,212.9	1,109.4	-4.0	1,109.4	1.74	394,968.37	752,388.98	
10,749.0	90.92	356.83	9,561.1	6,213.1	1,201.3	-7.3	1,201.3	3.45	395,060.30	752,385.73	
10,843.0	91.89	356.88	9,558.8	6,210.8	1,295.1	-12.4	1,295.2	1.03	395,154.13	752,380.58	
10,937.0	93.39	357.10	9,554.5	6,206.5	1,388.9	-17.4	1,389.0	1.61	395,247.90	752,375.65	
11,032.0	93.21	358.00	9,549.0	6,201.0	1,483.7	-21.4	1,483.8	0.96	395,342.65	752,371.59	
11,126.0	92.33	358.86	9,544.5	6,196.5	1,577.5	-24.0	1,577.6	1.31	395,436.50	752,369.02	
11,220.0	91.71	0.31	9,541.2	6,193.2	1,671.4	-24.7	1,671.6	1.68	395,530.44	752,368.34	
11,312.0	91.01	0.46	9,539.0	6,191.0	1,763.4	-24.0	1,763.5	0.78	395,622.41	752,368.96	
11,405.0	92.59	0.63	9,536.1	6,188.1	1,856.4	-23.2	1,856.5	1.71	395,715.36	752,369.84	
11,500.0	91.19	1.30	9,532.9	6,184.9	1,951.3	-21.6	1,951.4	1.63	395,810.29	752,371.44	
11,595.0	92.68	1.08	9,529.7	6,181.7	2,046.2	-19.6	2,046.3	1.59	395,905.21	752,373.41	
11,689.0	91.45	0.72	9,526.3	6,178.3	2,140.1	-18.1	2,140.2	1.36	395,999.14	752,374.89	
11,783.0	90.22	0.58	9,525.0	6,177.0	2,234.1	-17.0	2,234.2	1.32	396,093.12	752,375.96	
11,876.0	92.24	1.54	9,523.0	6,175.0	2,327.1	-15.3	2,327.1	2.40	396,186.08	752,377.68	
11,971.0	91.36	1.72	9,520.0	6,172.0	2,422.0	-12.6	2,422.0	0.95	396,280.99	752,380.38	
12,065.0	88.99	0.43	9,519.7	6,171.7	2,516.0	-10.9	2,516.0	2.87	396,374.97	752,382.14	
12,160.0	89.87	359.52	9,520.7	6,172.7	2,611.0	-10.9	2,611.0	1.33	396,469.96	752,382.10	
12,253.0	91.28	359.24	9,519.7	6,171.7	2,703.9	-11.9	2,704.0	1.55	396,562.95	752,381.09	
12,346.0	89.96	0.36	9,518.7	6,170.7	2,796.9	-12.2	2,797.0	1.86	396,655.94	752,380.77	
12,440.0	89.60	0.93	9,519.1	6,171.1	2,890.9	-11.2	2,890.9	0.72	396,749.93	752,381.83	
12,534.0	91.63	1.18	9,518.1	6,170.1	2,984.9	-9.4	2,984.9	2.18	396,843.90	752,383.56	
12,628.0	91.36	0.89	9,515.6	6,167.6	3,078.9	-7.7	3,078.8	0.42	396,937.86	752,385.25	
12,722.0	90.31	0.28	9,514.2	6,166.2	3,172.8	-6.8	3,172.8	1.29	397,031.84	752,386.21	
12,817.0	88.46	0.23	9,515.3	6,167.3	3,267.8	-6.4	3,267.8	1.95	397,126.83	752,386.64	
12,913.0	88.11	358.98	9,518.1	6,170.1	3,363.8	-7.0	3,363.7	1.35	397,222.78	752,385.97	

Company: EOG Resources, Inc.
Project: Lea County
Site: Black Bear "36" State
Well: #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #3H
KB = 25 @ 3348.0usft (Cactus 139)
KB = 25 @ 3348.0usft (Cactus 139)
Grid
Minimum Curvature
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)
13,005.0	88.46	357.85	9,520.9	6,172.9	3,455.7	-9.6	3,455.7	1.29	397,314.70	752,383.43
13,100.0	90.04	357.09	9,522.1	6,174.1	3,550.6	-13.8	3,550.6	1.85	397,409.60	752,379.24
13,194.0	91.63	356.96	9,520.8	6,172.8	3,644.5	-18.6	3,644.5	1.70	397,503.46	752,374.36
13,289.0	91.45	358.01	9,518.2	6,170.2	3,739.3	-22.8	3,739.4	1.12	397,598.33	752,370.19
13,384.0	91.71	357.60	9,515.6	6,167.6	3,834.2	-26.4	3,834.3	0.51	397,693.23	752,366.56
13,479.0	89.87	357.18	9,514.3	6,166.3	3,929.1	-30.8	3,929.2	1.99	397,788.11	752,362.23
13,572.0	90.13	357.86	9,514.3	6,166.3	4,022.0	-34.8	4,022.2	0.78	397,881.03	752,358.21
13,665.0	90.40	358.43	9,513.9	6,165.9	4,115.0	-37.8	4,115.1	0.68	397,973.98	752,355.20
13,760.0	93.91	358.37	9,510.3	6,162.3	4,209.9	-40.5	4,210.0	3.70	398,068.86	752,352.55
13,853.0	90.48	359.37	9,506.7	6,158.7	4,302.8	-42.3	4,303.0	3.84	398,161.76	752,350.71
13,947.0	91.98	359.08	9,504.7	6,156.7	4,396.7	-43.6	4,396.9	1.63	398,255.72	752,349.44
14,042.0	91.36	358.57	9,501.9	6,153.9	4,491.7	-45.5	4,491.9	0.84	398,350.66	752,347.50
14,136.0	90.31	359.13	9,500.6	6,152.6	4,585.6	-47.4	4,585.9	1.27	398,444.63	752,345.61
14,230.0	89.08	2.09	9,501.1	6,153.1	4,679.6	-46.4	4,679.8	3.41	398,538.61	752,346.61
14,286.0	89.39	1.97	9,501.8	6,153.8	4,735.6	-44.4	4,735.8	0.59	398,594.57	752,348.59
North Hardline Crossing - 14286.0 'MD, 89.39 'INC, 9501.8 'TVD, 4735.6 'N, -44.4 'E										
14,325.0	89.60	1.88	9,502.2	6,154.2	4,774.5	-43.1	4,774.7	0.59	398,633.55	752,349.90
14,348.0	90.22	2.28	9,502.2	6,154.2	4,797.5	-42.3	4,797.7	3.21	398,656.53	752,350.74
14,385.0	90.22	2.28	9,502.1	6,154.1	4,834.5	-40.8	4,834.7	0.00	398,693.50	752,352.21
PROJECTED BHL - 14385.0 'MD, 9502.1 'TVD, 4834.5 'N, -40.8 'E										

Company: EOG Resources, Inc.
Project: Lea County
Site: Black Bear "36" State
Well: #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #3H
TVD Reference: KB = 25 @ 3348.0usft (Cactus 139)
MD Reference: KB = 25 @ 3348.0usft (Cactus 139)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,108.0	9,099.6	-161.9	-5.5	KOP - 9108.0 'MD, 9099.6 'TVD, -161.9 'N, -5.5 'E
9,653.8	9,539.1	110.4	-21.7	South Hardline Crossing - 9653.8 'MD, 67.49 °INC, 9539.1 'TVD, 110.4 'N, -21.7 'E
9,834.0	9,569.2	286.7	-16.6	LP - 9834.0 'MD, 9569.2 'TVD, 286.7 'N, -16.6 'E
14,286.0	9,501.8	4,735.6	-44.4	North Hardline Crossing - 14286.0 'MD, 89.39 °INC, 9501.8 'TVD, 4735.6 'N, -44.4 'E
14,385.0	9,502.1	4,834.5	-40.8	PROJECTED BHL - 14385.0 'MD, 9502.1 'TVD, 4834.5 'N, -40.8 'E

Checked By: _____ Approved By: _____ Date: _____