



Project: Eddy County
Site: Elk Wallow 11 State
Well: #4H
Wellbore: OH
Plan: Plan #1 (#4H/OH)



Azimuths to Grid North
True North: -0.20°
Magnetic North: 7.62°
Magnetic Field
Strength: 48581.5nT
Dip Angle: 60.05°
Date: 11/12/2010
Model: IGRF2010

PATHFINDER
A Schlumberger Company

WELL DETAILS: #4H

Ground Elevation: 3131.70
RKB Elevation: WELL @ 3150.70ft (Original Well Elev)
Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	413902.700	619442.600	32° 8' 14.449 N	103° 56' 50.531 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	6917.50	0.00	0.00	6917.50	0.00	0.00	0.00	0.00	0.00	
3	7667.56	90.00	359.59	7395.00	477.49	-3.42	12.00	359.59	477.50	
4	12124.98	90.00	359.59	7395.00	4934.80	-35.31	0.00	0.00	4934.93	PBHL(EW11#4)

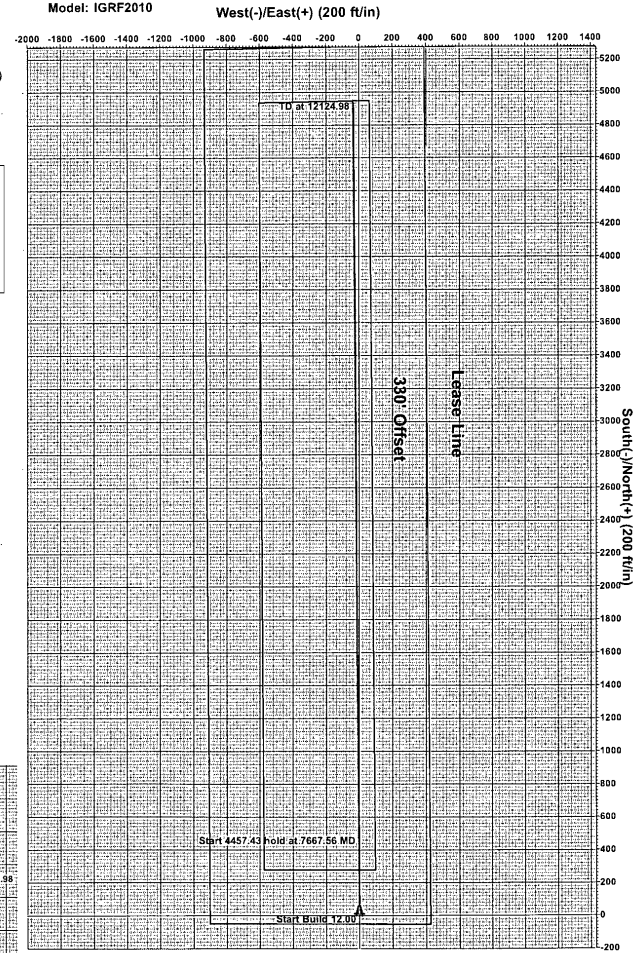
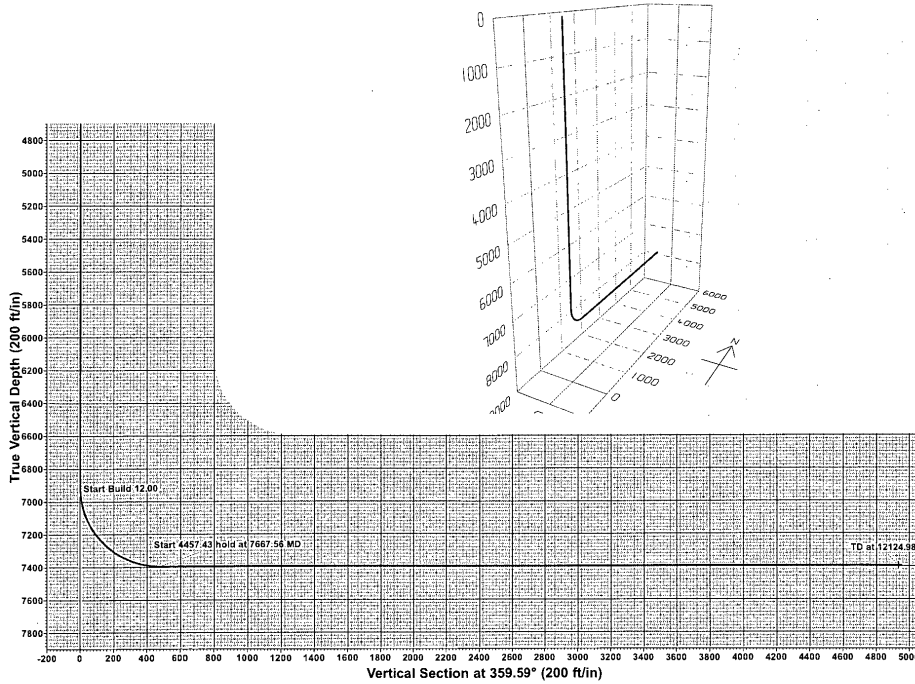
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(EW11#4)	7395.00	4934.80	-35.50	418837.500	619407.100	Point

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid

LEGEND

• Plan #1



Plan: Plan #1 (#4H/OH)
Created By: Nate Bingham Date: 9:27, November 12 2010
Checked: _____ Date: _____



EOG Resources, Inc.

Eddy County
Elk Wallow 11 State
#4H
OH

Plan: Plan #1

Pathfinder X & Y Planning Report

12 November, 2010



Pathfinder
Pathfinder X & Y Planning Report

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County	TVD Reference:	WELL @ 3150.70ft (Original Well Elev)
Site:	Elk Wallow 11 State	MD Reference:	WELL @ 3150.70ft (Original Well Elev)
Well:	#4H	North Reference:	.Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Project:	Eddy 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:	Elk Wallow 11 State				
Site Position:		Northing:	418,830.100 ft	Latitude:	32° 9' 3.367 N
From:	Map	Easting:	615,001.000 ft	Longitude:	103° 57' 42.290 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.20 °

Well:	#4H					
Well Position	+N/-S	0.00 ft	Northing:	413,902.700 ft	Latitude:	32° 8' 14.449 N
	+E/-W	0.00 ft	Easting:	619,442.600 ft	Longitude:	103° 56' 50.831 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	3,131.70 ft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/12/10	7.82	60.05	48,582

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.59

Survey Tool Program	Date	11/12/10		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	12,124.98	Plan #1 (OH)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Planning Report

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Site:	Elk Wallow 11 State	MD Reference:	WELL @ 3150.70ft (Original Well Elev)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned 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	-3,150.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
100.00	0.00	0.00	100.00	-3,050.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
200.00	0.00	0.00	200.00	-2,950.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
300.00	0.00	0.00	300.00	-2,850.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
400.00	0.00	0.00	400.00	-2,750.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
500.00	0.00	0.00	500.00	-2,650.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
600.00	0.00	0.00	600.00	-2,550.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
700.00	0.00	0.00	700.00	-2,450.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
800.00	0.00	0.00	800.00	-2,350.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
900.00	0.00	0.00	900.00	-2,250.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,000.00	0.00	0.00	1,000.00	-2,150.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,100.00	0.00	0.00	1,100.00	-2,050.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,200.00	0.00	0.00	1,200.00	-1,950.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,300.00	0.00	0.00	1,300.00	-1,850.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,400.00	0.00	0.00	1,400.00	-1,750.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,500.00	0.00	0.00	1,500.00	-1,650.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,600.00	0.00	0.00	1,600.00	-1,550.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,700.00	0.00	0.00	1,700.00	-1,450.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,800.00	0.00	0.00	1,800.00	-1,350.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
1,900.00	0.00	0.00	1,900.00	-1,250.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,000.00	0.00	0.00	2,000.00	-1,150.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,100.00	0.00	0.00	2,100.00	-1,050.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,200.00	0.00	0.00	2,200.00	-950.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,300.00	0.00	0.00	2,300.00	-850.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,400.00	0.00	0.00	2,400.00	-750.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,500.00	0.00	0.00	2,500.00	-650.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,600.00	0.00	0.00	2,600.00	-550.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60



Pathfinder Pathfinder X & Y Planning Report

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	-450.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,800.00	0.00	0.00	2,800.00	-350.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
2,900.00	0.00	0.00	2,900.00	-250.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,000.00	0.00	0.00	3,000.00	-150.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,100.00	0.00	0.00	3,100.00	-50.70	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,200.00	0.00	0.00	3,200.00	49.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,300.00	0.00	0.00	3,300.00	149.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,400.00	0.00	0.00	3,400.00	249.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,500.00	0.00	0.00	3,500.00	349.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,600.00	0.00	0.00	3,600.00	449.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,700.00	0.00	0.00	3,700.00	549.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,800.00	0.00	0.00	3,800.00	649.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
3,900.00	0.00	0.00	3,900.00	749.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,000.00	0.00	0.00	4,000.00	849.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,100.00	0.00	0.00	4,100.00	949.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,200.00	0.00	0.00	4,200.00	1,049.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,300.00	0.00	0.00	4,300.00	1,149.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,400.00	0.00	0.00	4,400.00	1,249.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,500.00	0.00	0.00	4,500.00	1,349.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,600.00	0.00	0.00	4,600.00	1,449.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,700.00	0.00	0.00	4,700.00	1,549.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,800.00	0.00	0.00	4,800.00	1,649.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
4,900.00	0.00	0.00	4,900.00	1,749.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
5,000.00	0.00	0.00	5,000.00	1,849.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
5,100.00	0.00	0.00	5,100.00	1,949.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
5,200.00	0.00	0.00	5,200.00	2,049.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60
5,300.00	0.00	0.00	5,300.00	2,149.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60



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Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
5,400.00	0.00	0.00	5,400.00	2,249.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
5,500.00	0.00	0.00	5,500.00	2,349.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
5,600.00	0.00	0.00	5,600.00	2,449.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
5,700.00	0.00	0.00	5,700.00	2,549.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
5,800.00	0.00	0.00	5,800.00	2,649.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
5,900.00	0.00	0.00	5,900.00	2,749.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,000.00	0.00	0.00	6,000.00	2,849.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,100.00	0.00	0.00	6,100.00	2,949.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,200.00	0.00	0.00	6,200.00	3,049.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,300.00	0.00	0.00	6,300.00	3,149.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,400.00	0.00	0.00	6,400.00	3,249.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,500.00	0.00	0.00	6,500.00	3,349.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,600.00	0.00	0.00	6,600.00	3,449.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,700.00	0.00	0.00	6,700.00	3,549.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,800.00	0.00	0.00	6,800.00	3,649.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,900.00	0.00	0.00	6,900.00	3,749.30	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,917.50	0.00	0.00	6,917.50	3,766.80	0.00	0.00	0.00	0.00	413,902.70	619,442.60	
6,925.00	0.90	359.59	6,925.00	3,774.30	0.06	0.00	0.06	12.00	413,902.76	619,442.60	
6,950.00	3.90	359.59	6,949.97	3,799.27	1.11	-0.01	1.11	12.00	413,903.81	619,442.59	
6,975.00	6.90	359.59	6,974.86	3,824.16	3.46	-0.02	3.46	12.00	413,906.16	619,442.58	
7,000.00	9.90	359.59	6,999.59	3,848.89	7.11	-0.05	7.11	12.00	413,909.81	619,442.55	
7,025.00	12.90	359.59	7,024.09	3,873.39	12.05	-0.09	12.05	12.00	413,914.75	619,442.51	
7,050.00	15.90	359.59	7,048.31	3,897.61	18.27	-0.13	18.27	12.00	413,920.97	619,442.47	
7,075.00	18.90	359.59	7,072.16	3,921.46	25.74	-0.18	25.74	12.00	413,928.44	619,442.42	
7,100.00	21.90	359.59	7,095.59	3,944.89	34.45	-0.25	34.45	12.00	413,937.15	619,442.35	
7,125.00	24.90	359.59	7,118.53	3,967.83	44.38	-0.32	44.38	12.00	413,947.08	619,442.28	
7,150.00	27.90	359.59	7,140.92	3,990.22	55.49	-0.40	55.49	12.00	413,958.19	619,442.20	



Pathfinder

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Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
7,175.00	30.90	359.59	7,162.70	4,012.00	67.76	-0.48	67.76	12.00	413,970.46	619,442.12	
7,200.00	33.90	359.59	7,183.81	4,033.11	81.16	-0.58	81.16	12.00	413,983.86	619,442.02	
7,225.00	36.90	359.59	7,204.18	4,053.48	95.63	-0.68	95.64	12.00	413,998.33	619,441.92	
7,250.00	39.90	359.59	7,223.77	4,073.07	111.16	-0.80	111.16	12.00	414,013.86	619,441.80	
7,275.00	42.90	359.59	7,242.52	4,091.82	127.69	-0.91	127.69	12.00	414,030.39	619,441.69	
7,300.00	45.90	359.59	7,260.39	4,109.69	145.18	-1.04	145.18	12.00	414,047.88	619,441.56	
7,325.00	48.90	359.59	7,277.31	4,126.61	163.58	-1.17	163.58	12.00	414,066.28	619,441.43	
7,350.00	51.90	359.59	7,293.24	4,142.54	182.84	-1.31	182.84	12.00	414,085.54	619,441.29	
7,375.00	54.90	359.59	7,308.15	4,157.45	202.90	-1.45	202.91	12.00	414,105.60	619,441.15	
7,400.00	57.90	359.59	7,321.98	4,171.28	223.72	-1.60	223.73	12.00	414,126.42	619,441.00	
7,425.00	60.90	359.59	7,334.71	4,184.01	245.24	-1.75	245.24	12.00	414,147.94	619,440.85	
7,450.00	63.90	359.59	7,346.29	4,195.59	267.39	-1.91	267.39	12.00	414,170.09	619,440.69	
7,475.00	66.90	359.59	7,356.70	4,206.00	290.11	-2.08	290.12	12.00	414,192.81	619,440.52	
7,500.00	69.89	359.59	7,365.90	4,215.20	313.35	-2.24	313.36	12.00	414,216.05	619,440.36	
7,525.00	72.89	359.59	7,373.88	4,223.18	337.04	-2.41	337.05	12.00	414,239.74	619,440.19	
7,550.00	75.89	359.59	7,380.60	4,229.90	361.12	-2.58	361.13	12.00	414,263.82	619,440.02	
7,575.00	78.89	359.59	7,386.06	4,235.36	385.51	-2.76	385.52	12.00	414,288.21	619,439.84	
7,600.00	81.89	359.59	7,390.23	4,239.53	410.16	-2.94	410.17	12.00	414,312.86	619,439.66	
7,625.00	84.89	359.59	7,393.10	4,242.40	434.99	-3.11	435.00	12.00	414,337.69	619,439.49	
7,650.00	87.89	359.59	7,394.68	4,243.98	459.94	-3.29	459.95	12.00	414,362.64	619,439.31	
7,667.56	90.00	359.59	7,395.00	4,244.30	477.49	-3.42	477.50	12.00	414,380.19	619,439.18	
7,700.00	90.00	359.59	7,395.00	4,244.30	509.93	-3.65	509.94	0.00	414,412.63	619,438.95	
7,800.00	90.00	359.59	7,395.00	4,244.30	609.93	-4.36	609.94	0.00	414,512.63	619,438.24	
7,900.00	90.00	359.59	7,395.00	4,244.30	709.93	-5.08	709.94	0.00	414,612.63	619,437.52	
8,000.00	90.00	359.59	7,395.00	4,244.30	809.92	-5.80	809.94	0.00	414,712.62	619,436.80	
8,100.00	90.00	359.59	7,395.00	4,244.30	909.92	-6.51	909.94	0.00	414,812.62	619,436.09	
8,200.00	90.00	359.59	7,395.00	4,244.30	1,009.92	-7.23	1,009.94	0.00	414,912.62	619,435.37	



Pathfinder

Pathfinder X & Y Planning Report

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County	TVD Reference:	WELL @ 3150.70ft (Original Well Elev)
Site:	Elk Wallow 11 State	MD Reference:	WELL @ 3150.70ft (Original Well Elev)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,300.00	90.00	359.59	7,395.00	4,244.30	1,109.92	-7.94	1,109.94	0.00	415,012.62	619,434.66
8,400.00	90.00	359.59	7,395.00	4,244.30	1,209.91	-8.66	1,209.94	0.00	415,112.61	619,433.94
8,500.00	90.00	359.59	7,395.00	4,244.30	1,309.91	-9.37	1,309.94	0.00	415,212.61	619,433.23
8,600.00	90.00	359.59	7,395.00	4,244.30	1,409.91	-10.09	1,409.94	0.00	415,312.61	619,432.51
8,700.00	90.00	359.59	7,395.00	4,244.30	1,509.91	-10.80	1,509.94	0.00	415,412.61	619,431.80
8,800.00	90.00	359.59	7,395.00	4,244.30	1,609.90	-11.52	1,609.94	0.00	415,512.60	619,431.08
8,900.00	90.00	359.59	7,395.00	4,244.30	1,709.90	-12.24	1,709.94	0.00	415,612.60	619,430.36
9,000.00	90.00	359.59	7,395.00	4,244.30	1,809.90	-12.95	1,809.94	0.00	415,712.60	619,429.65
9,100.00	90.00	359.59	7,395.00	4,244.30	1,909.90	-13.67	1,909.94	0.00	415,812.60	619,428.93
9,200.00	90.00	359.59	7,395.00	4,244.30	2,009.89	-14.38	2,009.94	0.00	415,912.59	619,428.22
9,300.00	90.00	359.59	7,395.00	4,244.30	2,109.89	-15.10	2,109.94	0.00	416,012.59	619,427.50
9,400.00	90.00	359.59	7,395.00	4,244.30	2,209.89	-15.81	2,209.94	0.00	416,112.59	619,426.79
9,500.00	90.00	359.59	7,395.00	4,244.30	2,309.89	-16.53	2,309.94	0.00	416,212.59	619,426.07
9,600.00	90.00	359.59	7,395.00	4,244.30	2,409.88	-17.25	2,409.94	0.00	416,312.58	619,425.35
9,700.00	90.00	359.59	7,395.00	4,244.30	2,509.88	-17.96	2,509.94	0.00	416,412.58	619,424.64
9,800.00	90.00	359.59	7,395.00	4,244.30	2,609.88	-18.68	2,609.94	0.00	416,512.58	619,423.92
9,900.00	90.00	359.59	7,395.00	4,244.30	2,709.88	-19.39	2,709.94	0.00	416,612.58	619,423.21
10,000.00	90.00	359.59	7,395.00	4,244.30	2,809.87	-20.11	2,809.94	0.00	416,712.57	619,422.49
10,100.00	90.00	359.59	7,395.00	4,244.30	2,909.87	-20.82	2,909.94	0.00	416,812.57	619,421.78
10,200.00	90.00	359.59	7,395.00	4,244.30	3,009.87	-21.54	3,009.94	0.00	416,912.57	619,421.06
10,300.00	90.00	359.59	7,395.00	4,244.30	3,109.87	-22.25	3,109.94	0.00	417,012.57	619,420.35
10,400.00	90.00	359.59	7,395.00	4,244.30	3,209.86	-22.97	3,209.94	0.00	417,112.56	619,419.63
10,500.00	90.00	359.59	7,395.00	4,244.30	3,309.86	-23.69	3,309.94	0.00	417,212.56	619,418.91
10,600.00	90.00	359.59	7,395.00	4,244.30	3,409.86	-24.40	3,409.94	0.00	417,312.56	619,418.20
10,700.00	90.00	359.59	7,395.00	4,244.30	3,509.85	-25.12	3,509.94	0.00	417,412.55	619,417.48
10,800.00	90.00	359.59	7,395.00	4,244.30	3,609.85	-25.83	3,609.94	0.00	417,512.55	619,416.77
10,900.00	90.00	359.59	7,395.00	4,244.30	3,709.85	-26.55	3,709.94	0.00	417,612.55	619,416.05

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County	TVD Reference:	WELL @ 3150.70ft (Original Well Elev)
Site:	Elk Wallow 11 State	MD Reference:	WELL @ 3150.70ft (Original Well Elev)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
11,000.00	90.00	359.59	7,395.00	4,244.30	3,809.85	-27.26	3,809.94	0.00	417,712.55	619,415.34	
11,100.00	90.00	359.59	7,395.00	4,244.30	3,909.84	-27.98	3,909.94	0.00	417,812.54	619,414.62	
11,200.00	90.00	359.59	7,395.00	4,244.30	4,009.84	-28.69	4,009.94	0.00	417,912.54	619,413.91	
11,300.00	90.00	359.59	7,395.00	4,244.30	4,109.84	-29.41	4,109.94	0.00	418,012.54	619,413.19	
11,400.00	90.00	359.59	7,395.00	4,244.30	4,209.84	-30.13	4,209.94	0.00	418,112.54	619,412.47	
11,500.00	90.00	359.59	7,395.00	4,244.30	4,309.83	-30.84	4,309.94	0.00	418,212.53	619,411.76	
11,600.00	90.00	359.59	7,395.00	4,244.30	4,409.83	-31.56	4,409.94	0.00	418,312.53	619,411.04	
11,700.00	90.00	359.59	7,395.00	4,244.30	4,509.83	-32.27	4,509.94	0.00	418,412.53	619,410.33	
11,800.00	90.00	359.59	7,395.00	4,244.30	4,609.83	-32.99	4,609.94	0.00	418,512.53	619,409.61	
11,900.00	90.00	359.59	7,395.00	4,244.30	4,709.82	-33.70	4,709.94	0.00	418,612.52	619,408.90	
12,000.00	90.00	359.59	7,395.00	4,244.30	4,809.82	-34.42	4,809.94	0.00	418,712.52	619,408.18	
12,100.00	90.00	359.59	7,395.00	4,244.30	4,909.82	-35.13	4,909.94	0.00	418,812.52	619,407.47	
12,124.98	90.00	359.59	7,395.00	4,244.30	4,934.80	-35.31	4,934.93	0.00	418,837.50	619,407.29	
PBHL(EW11#4)											

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
PBHL(EW11#4) - plan hits target center - Point	0.00	0.00	7,395.00	4,934.80	-35.50	418,837.500	619,407.100	32° 9' 3.287 N	103° 56' 51.038 W

Checked By: _____ Approved By: _____ Date: _____