



EOG Resources, Inc.

Lea County
Endurance "25" Fed Com
#1H
OH

RECEIVED

JUL 12 2010

HOBBSOCD

Plan: Plan #1

Pathfinder X & Y Planning Report

16 February, 2010

PATHFINDER



Pathfinder
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3385.30ft (25' KB)
Site:	Endurance "25" Fed Com	MD Reference:	WELL @ 3385.30ft (25' KB)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	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		Endurance "25" Fed Com									
Site Position:		Northing:		372,173.800 ft		Latitude:		32° 1' 14.273 N			
From:		Map		Easting:		751,132.000 ft		Longitude:		103° 31' 22.968 W	
Position Uncertainty:		0.00 ft		Slot Radius:		"		Grid Convergence:		0.43 °	

Well	#1H					
Well Position	+N/-S	0.00 ft	Northing:	372,173.800 ft	Latitude:	32° 1' 14.273 N
	+E/-W	0.00 ft	Easting:	751,132.000 ft	Longitude:	103° 31' 22.968 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	3,360.30 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	02/16/2010	7.70	60.06	48,662

Design		Plan #1		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	179.56

Survey Tool Program		Date 02/16/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	16,720.46	Plan #1 (OH)	MWD	MWD - Standard



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Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: OH
Design: Plan #1

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

Well #1H
WELL @ 3385.30ft (25' KB)
WELL @ 3385.30ft (25' KB)
Grid
Minimum Curvature
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	-3,385.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
100.00	0.00	0.00	100.00	-3,285.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
200.00	0.00	0.00	200.00	-3,185.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
300.00	0.00	0.00	300.00	-3,085.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
400.00	0.00	0.00	400.00	-2,985.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
500.00	0.00	0.00	500.00	-2,885.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
600.00	0.00	0.00	600.00	-2,785.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
700.00	0.00	0.00	700.00	-2,685.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
800.00	0.00	0.00	800.00	-2,585.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
900.00	0.00	0.00	900.00	-2,485.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,000.00	0.00	0.00	1,000.00	-2,385.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,100.00	0.00	0.00	1,100.00	-2,285.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,200.00	0.00	0.00	1,200.00	-2,185.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,300.00	0.00	0.00	1,300.00	-2,085.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,400.00	0.00	0.00	1,400.00	-1,985.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,500.00	0.00	0.00	1,500.00	-1,885.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,600.00	0.00	0.00	1,600.00	-1,785.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,700.00	0.00	0.00	1,700.00	-1,685.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,800.00	0.00	0.00	1,800.00	-1,585.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
1,900.00	0.00	0.00	1,900.00	-1,485.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
2,000.00	0.00	0.00	2,000.00	-1,385.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
2,100.00	0.00	0.00	2,100.00	-1,285.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
2,200.00	0.00	0.00	2,200.00	-1,185.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
2,300.00	0.00	0.00	2,300.00	-1,085.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
2,400.00	0.00	0.00	2,400.00	-985.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
2,500.00	0.00	0.00	2,500.00	-885.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00
2,600.00	0.00	0.00	2,600.00	-785.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00



Pathfinder

Pathfinder X & Y Planning Report



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Well:	#1H	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)	
2,700.00	0.00	0.00	2,700.00	-685.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
2,800.00	0.00	0.00	2,800.00	-585.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
2,900.00	0.00	0.00	2,900.00	-485.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,000.00	0.00	0.00	3,000.00	-385.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,100.00	0.00	0.00	3,100.00	-285.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,200.00	0.00	0.00	3,200.00	-185.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,300.00	0.00	0.00	3,300.00	-85.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,400.00	0.00	0.00	3,400.00	14.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,500.00	0.00	0.00	3,500.00	114.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,600.00	0.00	0.00	3,600.00	214.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,700.00	0.00	0.00	3,700.00	314.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,800.00	0.00	0.00	3,800.00	414.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
3,900.00	0.00	0.00	3,900.00	514.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,000.00	0.00	0.00	4,000.00	614.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,100.00	0.00	0.00	4,100.00	714.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,200.00	0.00	0.00	4,200.00	814.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,300.00	0.00	0.00	4,300.00	914.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,400.00	0.00	0.00	4,400.00	1,014.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,500.00	0.00	0.00	4,500.00	1,114.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,600.00	0.00	0.00	4,600.00	1,214.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,700.00	0.00	0.00	4,700.00	1,314.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,800.00	0.00	0.00	4,800.00	1,414.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
4,900.00	0.00	0.00	4,900.00	1,514.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
5,000.00	0.00	0.00	5,000.00	1,614.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
5,100.00	0.00	0.00	5,100.00	1,714.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
5,200.00	0.00	0.00	5,200.00	1,814.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
5,300.00	0.00	0.00	5,300.00	1,914.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00	



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5,400.00	0.00	0.00	5,400.00	2,014.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
5,500.00	0.00	0.00	5,500.00	2,114.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
5,600.00	0.00	0.00	5,600.00	2,214.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
5,700.00	0.00	0.00	5,700.00	2,314.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
5,800.00	0.00	0.00	5,800.00	2,414.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
5,900.00	0.00	0.00	5,900.00	2,514.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,000.00	0.00	0.00	6,000.00	2,614.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,100.00	0.00	0.00	6,100.00	2,714.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,200.00	0.00	0.00	6,200.00	2,814.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,300.00	0.00	0.00	6,300.00	2,914.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,400.00	0.00	0.00	6,400.00	3,014.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,500.00	0.00	0.00	6,500.00	3,114.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,600.00	0.00	0.00	6,600.00	3,214.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,700.00	0.00	0.00	6,700.00	3,314.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,800.00	0.00	0.00	6,800.00	3,414.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
6,900.00	0.00	0.00	6,900.00	3,514.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,000.00	0.00	0.00	7,000.00	3,614.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,100.00	0.00	0.00	7,100.00	3,714.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,200.00	0.00	0.00	7,200.00	3,814.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,300.00	0.00	0.00	7,300.00	3,914.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,400.00	0.00	0.00	7,400.00	4,014.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,500.00	0.00	0.00	7,500.00	4,114.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,600.00	0.00	0.00	7,600.00	4,214.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,700.00	0.00	0.00	7,700.00	4,314.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,800.00	0.00	0.00	7,800.00	4,414.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
7,900.00	0.00	0.00	7,900.00	4,514.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,000.00	0.00	0.00	8,000.00	4,614.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00



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8,100.00	0.00	0.00	8,100.00	4,714.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,200.00	0.00	0.00	8,200.00	4,814.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,300.00	0.00	0.00	8,300.00	4,914.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,400.00	0.00	0.00	8,400.00	5,014.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,500.00	0.00	0.00	8,500.00	5,114.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,600.00	0.00	0.00	8,600.00	5,214.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,700.00	0.00	0.00	8,700.00	5,314.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,800.00	0.00	0.00	8,800.00	5,414.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
8,900.00	0.00	0.00	8,900.00	5,514.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
9,000.00	0.00	0.00	9,000.00	5,614.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
9,100.00	0.00	0.00	9,100.00	5,714.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
9,200.00	0.00	0.00	9,200.00	5,814.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
9,300.00	0.00	0.00	9,300.00	5,914.70	0.00	0.00	0.00	0.00	372,173.80	751,132.00
9,322.50	0.00	0.00	9,322.50	5,937.20	0.00	0.00	0.00	0.00	372,173.80	751,132.00
9,325.00	0.30	179.56	9,325.00	5,939.70	-0.01	0.00	0.01	12.00	372,173.79	751,132.00
9,350.00	3.30	179.56	9,349.98	5,964.68	-0.79	0.01	0.79	12.00	372,173.01	751,132.01
9,375.00	6.30	179.56	9,374.89	5,989.59	-2.88	0.02	2.88	12.00	372,170.92	751,132.02
9,400.00	9.30	179.56	9,399.66	6,014.36	-6.28	0.05	6.28	12.00	372,167.52	751,132.05
9,425.00	12.30	179.56	9,424.21	6,038.91	-10.96	0.08	10.96	12.00	372,162.84	751,132.08
9,450.00	15.30	179.56	9,448.49	6,063.19	-16.92	0.13	16.92	12.00	372,156.88	751,132.13
9,475.00	18.30	179.56	9,472.42	6,087.12	-24.15	0.19	24.15	12.00	372,149.65	751,132.19
9,500.00	21.30	179.56	9,495.94	6,110.64	-32.61	0.25	32.61	12.00	372,141.19	751,132.25
9,525.00	24.30	179.56	9,518.98	6,133.68	-42.30	0.32	42.30	12.00	372,131.50	751,132.32
9,550.00	27.30	179.56	9,541.49	6,156.19	-53.18	0.41	53.18	12.00	372,120.62	751,132.41
9,575.00	30.30	179.56	9,563.40	6,178.10	-65.22	0.50	65.22	12.00	372,108.58	751,132.50
9,600.00	33.30	179.56	9,584.64	6,199.34	-78.39	0.60	78.39	12.00	372,095.41	751,132.60
9,625.00	36.30	179.56	9,605.17	6,219.87	-92.65	0.71	92.66	12.00	372,081.15	751,132.71



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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)
9,650.00	39.30	179.56	9,624.92	6,239.62	-107.97	0.83	107.98	12.00	372,065.83	751,132.83
9,675.00	42.30	179.56	9,643.84	6,258.54	-124.31	0.95	124.31	12.00	372,049.49	751,132.95
9,700.00	45.30	179.56	9,661.89	6,276.59	-141.61	1.09	141.61	12.00	372,032.19	751,133.09
9,725.00	48.30	179.56	9,679.00	6,293.70	-159.83	1.23	159.83	12.00	372,013.97	751,133.23
9,750.00	51.30	179.56	9,695.14	6,309.84	-178.92	1.37	178.92	12.00	371,994.88	751,133.37
9,775.00	54.30	179.56	9,710.25	6,324.95	-198.83	1.53	198.83	12.00	371,974.97	751,133.53
9,800.00	57.30	179.56	9,724.30	6,339.00	-219.50	1.69	219.51	12.00	371,954.30	751,133.69
9,825.00	60.30	179.56	9,737.25	6,351.95	-240.88	1.85	240.89	12.00	371,932.92	751,133.85
9,850.00	63.30	179.56	9,749.07	6,363.77	-262.91	2.02	262.92	12.00	371,910.89	751,134.02
9,875.00	66.30	179.56	9,759.71	6,374.41	-285.52	2.19	285.53	12.00	371,888.28	751,134.19
9,900.00	69.29	179.56	9,769.16	6,383.86	-308.67	2.37	308.68	12.00	371,865.13	751,134.37
9,925.00	72.29	179.56	9,777.38	6,392.08	-332.27	2.55	332.28	12.00	371,841.53	751,134.55
9,950.00	75.29	179.56	9,784.36	6,399.06	-356.28	2.74	356.29	12.00	371,817.52	751,134.74
9,975.00	78.29	179.56	9,790.07	6,404.77	-380.61	2.92	380.62	12.00	371,793.19	751,134.92
10,000.00	81.29	179.56	9,794.50	6,409.20	-405.21	3.11	405.22	12.00	371,768.59	751,135.11
10,025.00	84.29	179.56	9,797.63	6,412.33	-430.01	3.30	430.02	12.00	371,743.79	751,135.30
10,050.00	87.29	179.56	9,799.47	6,414.17	-454.94	3.49	454.95	12.00	371,718.86	751,135.49
10,072.56	90.00	179.56	9,800.00	6,414.70	-477.49	3.67	477.50	12.00	371,696.31	751,135.67
10,100.00	90.00	179.56	9,800.00	6,414.70	-504.93	3.88	504.94	0.00	371,668.87	751,135.88
10,200.00	90.00	179.56	9,800.00	6,414.70	-604.93	4.65	604.94	0.00	371,568.87	751,136.65
10,300.00	90.00	179.56	9,800.00	6,414.70	-704.92	5.41	704.94	0.00	371,468.88	751,137.41
10,400.00	90.00	179.56	9,800.00	6,414.70	-804.92	6.18	804.94	0.00	371,368.88	751,138.18
10,500.00	90.00	179.56	9,800.00	6,414.70	-904.92	6.95	904.94	0.00	371,268.88	751,138.95
10,600.00	90.00	179.56	9,800.00	6,414.70	-1,004.92	7.72	1,004.94	0.00	371,168.88	751,139.72
10,700.00	90.00	179.56	9,800.00	6,414.70	-1,104.91	8.49	1,104.94	0.00	371,068.89	751,140.49
10,800.00	90.00	179.56	9,800.00	6,414.70	-1,204.91	9.25	1,204.94	0.00	370,968.89	751,141.25
10,900.00	90.00	179.56	9,800.00	6,414.70	-1,304.91	10.02	1,304.94	0.00	370,868.89	751,142.02



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3385.30ft (25' KB)
MD Reference: WELL @ 3385.30ft (25' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	179.56	9,800.00	6,414.70	-1,404.90	10.79	1,404.94	0.00	370,768.90	751,142.79
11,100.00	90.00	179.56	9,800.00	6,414.70	-1,504.90	11.56	1,504.94	0.00	370,668.90	751,143.56
11,200.00	90.00	179.56	9,800.00	6,414.70	-1,604.90	12.32	1,604.94	0.00	370,568.90	751,144.32
11,300.00	90.00	179.56	9,800.00	6,414.70	-1,704.89	13.09	1,704.94	0.00	370,468.91	751,145.09
11,400.00	90.00	179.56	9,800.00	6,414.70	-1,804.89	13.86	1,804.94	0.00	370,368.91	751,145.86
11,500.00	90.00	179.56	9,800.00	6,414.70	-1,904.89	14.63	1,904.94	0.00	370,268.91	751,146.63
11,600.00	90.00	179.56	9,800.00	6,414.70	-2,004.89	15.40	2,004.94	0.00	370,168.91	751,147.40
11,700.00	90.00	179.56	9,800.00	6,414.70	-2,104.88	16.16	2,104.94	0.00	370,068.92	751,148.16
11,800.00	90.00	179.56	9,800.00	6,414.70	-2,204.88	16.93	2,204.94	0.00	369,968.92	751,148.93
11,900.00	90.00	179.56	9,800.00	6,414.70	-2,304.88	17.70	2,304.94	0.00	369,868.92	751,149.70
12,000.00	90.00	179.56	9,800.00	6,414.70	-2,404.87	18.47	2,404.94	0.00	369,768.93	751,150.47
12,100.00	90.00	179.56	9,800.00	6,414.70	-2,504.87	19.24	2,504.94	0.00	369,668.93	751,151.24
12,200.00	90.00	179.56	9,800.00	6,414.70	-2,604.87	20.00	2,604.94	0.00	369,568.93	751,152.00
12,300.00	90.00	179.56	9,800.00	6,414.70	-2,704.86	20.77	2,704.94	0.00	369,468.94	751,152.77
12,400.00	90.00	179.56	9,800.00	6,414.70	-2,804.86	21.54	2,804.94	0.00	369,368.94	751,153.54
12,500.00	90.00	179.56	9,800.00	6,414.70	-2,904.86	22.31	2,904.94	0.00	369,268.94	751,154.31
12,600.00	90.00	179.56	9,800.00	6,414.70	-3,004.86	23.08	3,004.94	0.00	369,168.94	751,155.08
12,700.00	90.00	179.56	9,800.00	6,414.70	-3,104.85	23.84	3,104.94	0.00	369,068.95	751,155.84
12,800.00	90.00	179.56	9,800.00	6,414.70	-3,204.85	24.61	3,204.94	0.00	368,968.95	751,156.61
12,900.00	90.00	179.56	9,800.00	6,414.70	-3,304.85	25.38	3,304.94	0.00	368,868.95	751,157.38
13,000.00	90.00	179.56	9,800.00	6,414.70	-3,404.84	26.15	3,404.94	0.00	368,768.96	751,158.15
13,100.00	90.00	179.56	9,800.00	6,414.70	-3,504.84	26.92	3,504.94	0.00	368,668.96	751,158.92
13,200.00	90.00	179.56	9,800.00	6,414.70	-3,604.84	27.68	3,604.94	0.00	368,568.96	751,159.68
13,300.00	90.00	179.56	9,800.00	6,414.70	-3,704.84	28.45	3,704.94	0.00	368,468.96	751,160.45
13,400.00	90.00	179.56	9,800.00	6,414.70	-3,804.83	29.22	3,804.94	0.00	368,368.97	751,161.22
13,500.00	90.00	179.56	9,800.00	6,414.70	-3,904.83	29.99	3,904.94	0.00	368,268.97	751,161.99
13,600.00	90.00	179.56	9,800.00	6,414.70	-4,004.83	30.76	4,004.94	0.00	368,168.97	751,162.76



Pathfinder

Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3385.30ft (25' KB)
Site:	Endurance "25" Fed Com	MD Reference:	WELL @ 3385.30ft (25' KB)
Well:	#1H	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)
13,700.00	90.00	179.56	9,800.00	6,414.70	-4,104.82	31.52	4,104.94	0.00	368,068.98	751,163.52
13,800.00	90.00	179.56	9,800.00	6,414.70	-4,204.82	32.29	4,204.94	0.00	367,968.98	751,164.29
13,900.00	90.00	179.56	9,800.00	6,414.70	-4,304.82	33.06	4,304.94	0.00	367,868.98	751,165.06
14,000.00	90.00	179.56	9,800.00	6,414.70	-4,404.81	33.83	4,404.94	0.00	367,768.99	751,165.83
14,100.00	90.00	179.56	9,800.00	6,414.70	-4,504.81	34.60	4,504.94	0.00	367,668.99	751,166.60
14,200.00	90.00	179.56	9,800.00	6,414.70	-4,604.81	35.36	4,604.94	0.00	367,568.99	751,167.36
14,300.00	90.00	179.56	9,800.00	6,414.70	-4,704.81	36.13	4,704.94	0.00	367,468.99	751,168.13
14,400.00	90.00	179.56	9,800.00	6,414.70	-4,804.80	36.90	4,804.94	0.00	367,369.00	751,168.90
14,500.00	90.00	179.56	9,800.00	6,414.70	-4,904.80	37.67	4,904.94	0.00	367,269.00	751,169.67
14,600.00	90.00	179.56	9,800.00	6,414.70	-5,004.80	38.43	5,004.94	0.00	367,169.00	751,170.43
14,700.00	90.00	179.56	9,800.00	6,414.70	-5,104.79	39.20	5,104.94	0.00	367,069.01	751,171.20
14,800.00	90.00	179.56	9,800.00	6,414.70	-5,204.79	39.97	5,204.94	0.00	366,969.01	751,171.97
14,900.00	90.00	179.56	9,800.00	6,414.70	-5,304.79	40.74	5,304.94	0.00	366,869.01	751,172.74
15,000.00	90.00	179.56	9,800.00	6,414.70	-5,404.79	41.51	5,404.94	0.00	366,769.01	751,173.51
15,100.00	90.00	179.56	9,800.00	6,414.70	-5,504.78	42.27	5,504.94	0.00	366,669.02	751,174.27
15,200.00	90.00	179.56	9,800.00	6,414.70	-5,604.78	43.04	5,604.94	0.00	366,569.02	751,175.04
15,300.00	90.00	179.56	9,800.00	6,414.70	-5,704.78	43.81	5,704.94	0.00	366,469.02	751,175.81
15,400.00	90.00	179.56	9,800.00	6,414.70	-5,804.77	44.58	5,804.94	0.00	366,369.03	751,176.58
15,500.00	90.00	179.56	9,800.00	6,414.70	-5,904.77	45.35	5,904.94	0.00	366,269.03	751,177.35
15,600.00	90.00	179.56	9,800.00	6,414.70	-6,004.77	46.11	6,004.94	0.00	366,169.03	751,178.11
15,700.00	90.00	179.56	9,800.00	6,414.70	-6,104.76	46.88	6,104.94	0.00	366,069.04	751,178.88
15,800.00	90.00	179.56	9,800.00	6,414.70	-6,204.76	47.65	6,204.94	0.00	365,969.04	751,179.65
15,900.00	90.00	179.56	9,800.00	6,414.70	-6,304.76	48.42	6,304.94	0.00	365,869.04	751,180.42
16,000.00	90.00	179.56	9,800.00	6,414.70	-6,404.76	49.19	6,404.94	0.00	365,769.04	751,181.19
16,100.00	90.00	179.56	9,800.00	6,414.70	-6,504.75	49.95	6,504.94	0.00	365,669.05	751,181.95
16,200.00	90.00	179.56	9,800.00	6,414.70	-6,604.75	50.72	6,604.94	0.00	365,569.05	751,182.72
16,300.00	90.00	179.56	9,800.00	6,414.70	-6,704.75	51.49	6,704.94	0.00	365,469.05	751,183.49

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3385.30ft (25' KB)
Site:	Endurance "25" Fed Com	MD Reference:	WELL @ 3385.30ft (25' KB)
Well:	#1H	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)
16,400.00	90.00	179.56	9,800.00	6,414.70	-6,804.74	52.26	6,804.94	0.00	365,369.06	751,184.26
16,500.00	90.00	179.56	9,800.00	6,414.70	-6,904.74	53.03	6,904.94	0.00	365,269.06	751,185.03
16,600.00	90.00	179.56	9,800.00	6,414.70	-7,004.74	53.79	7,004.94	0.00	365,169.06	751,185.79
16,700.00	90.00	179.56	9,800.00	6,414.70	-7,104.74	54.56	7,104.94	0.00	365,069.06	751,186.56
16,720.46	90.00	179.56	9,800.00	6,414.70	-7,125.20	54.72	7,125.41	0.00	365,048.60	751,186.72

Targets									
Target Name	-hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
PBHL(EN25#1)	- plan hits target center	0.00	0.00	9,800.00	-7,125.20	54.20	365,048.600	751,186.200	Latitude Longitude
	- Point								

Checked By: _____ Approved By: _____ Date: _____



Project: Lea County
 Site: Endurance "25" Fed Com
 Well: #1H
 Wellbore: OH
 Plan: Plan #1 (#1H/OH)



Azimuths to Grid North
 True North: -0.43°
 Magnetic North: 7.27°

Magnetic Field
 Strength: 48662.1snT
 Dip Angle: 60.06°
 Date: 02/16/2010
 Model: IGRF200510

PATHFINDER

WELL DETAILS: #1H

Ground Elevation: 3360.30
 RKB Elevation: WELL @ 3385.30ft (25' KB)
 Rig Name: 25' KB

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	372173.800	751132.000	32° 1' 14.273 N	103° 31' 22.958 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	9322.50	0.00	0.00	9322.50	0.00	0.00	0.00	0.00	0.00	
3	10072.56	90.00	179.56	9800.00	-477.49	3.67	12.00	179.56	477.50	
4	16720.46	90.00	179.56	9800.00	-7125.20	54.72	0.00	0.00	7125.41	PBHL(EN25#1)

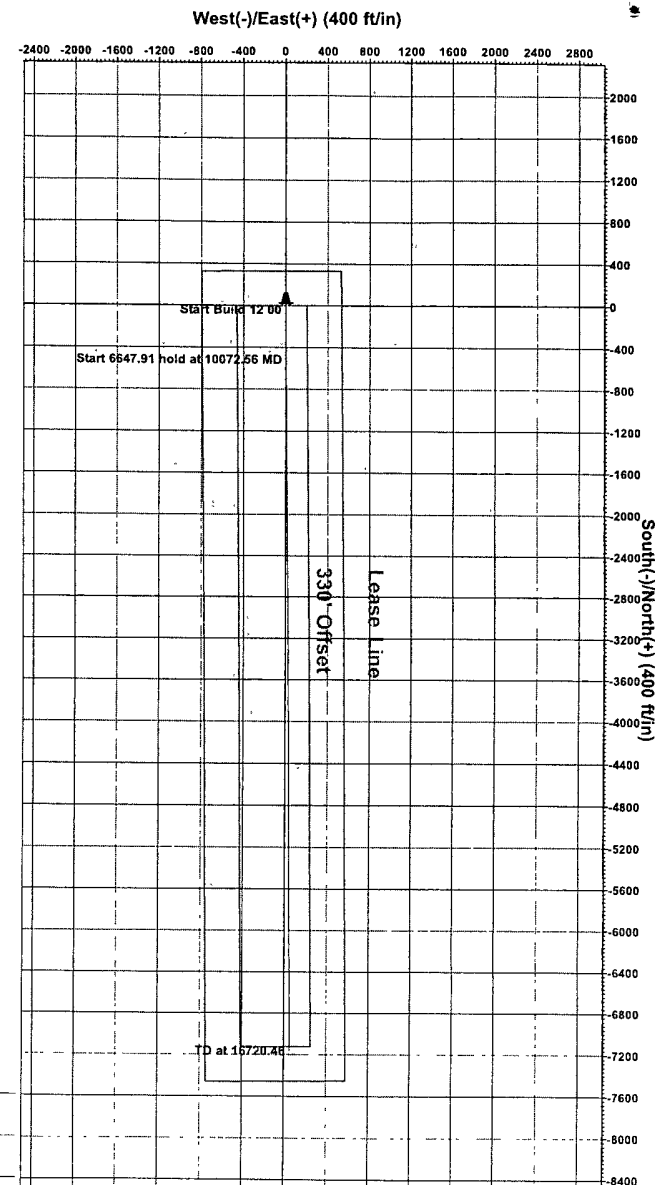
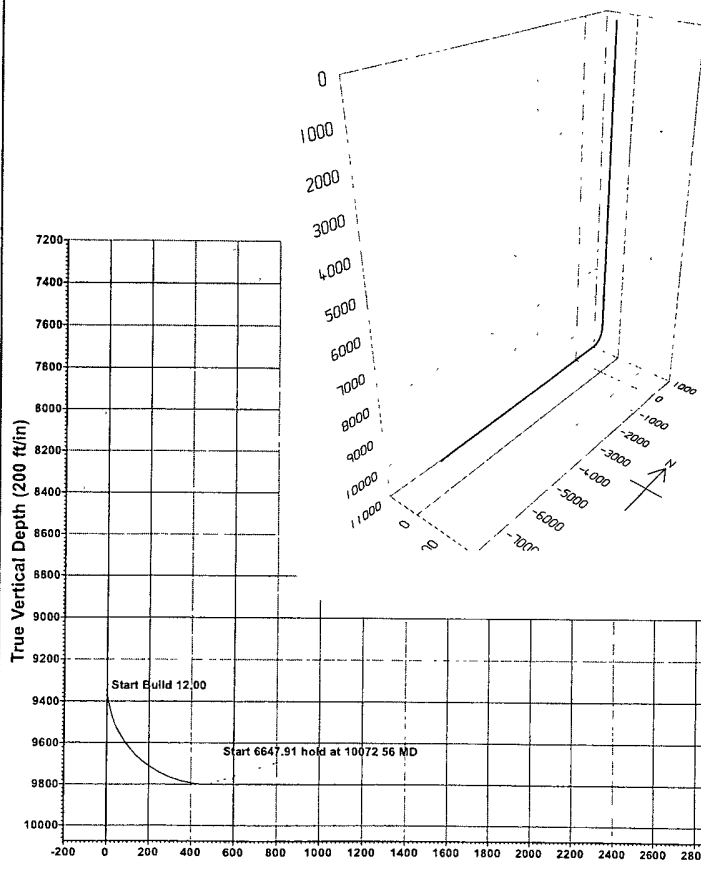
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(EN25#1)	9800.00	-7125.20	54.20	365048.600	751186.200	Point

LEGEND

• Plan #1

PROJECT DETAILS: Lea 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



EOG Resources Inc.
NM-122622 – Endurance 25 Fed Com #1H
API: 30-025-39743
Lea County, New Mexico

RE: APD Plan Change – Conditions of Approval

Pilot hole depth change is approved. **All Original COA are in effect.**

5M BOP is approved. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**

Spacer plug is required between kick off plug and casing shoe. No more than 2000' allowed between plugs in open hole. Plug will be a minimum 25sx meeting the 100' plus an additional 10' per 1000' of depth. Kick off plug and spacer plug must be tagged after WOC of 4 or more hours.

Casing shoe plug must have a minimum 35' bailed or 25sx pumped cement.

Operator to notify the BLM when rigs are moved.

A dry hole tree will be installed to secure the wellbore at the surface.
– Per Stan Wagner on 06/30/10

DHW 062910