



Project: Lea County
Site: Horse "29" State
Well: #1
Wellbore: OH
Plan: Plan #1 (#1/OH)



Azimuths to Grid North
True North: -0.44°
Magnetic North: 7.26°

Magnetic Field
Strength: 48730.3nT
Dip Angle: 60.14°
Date: 12/31/2009
Model: IGRF200510

PATHFINDER

WELL DETAILS: #1
Ground Elevation: 3319.50
RKB Elevation: WELL @ 3338.50ft (Original Well Elev)
Rig Name: Original Well Elev

+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	403912.300	758454.500	32° 6' 27.793 N	103° 29' 55.070 W	

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

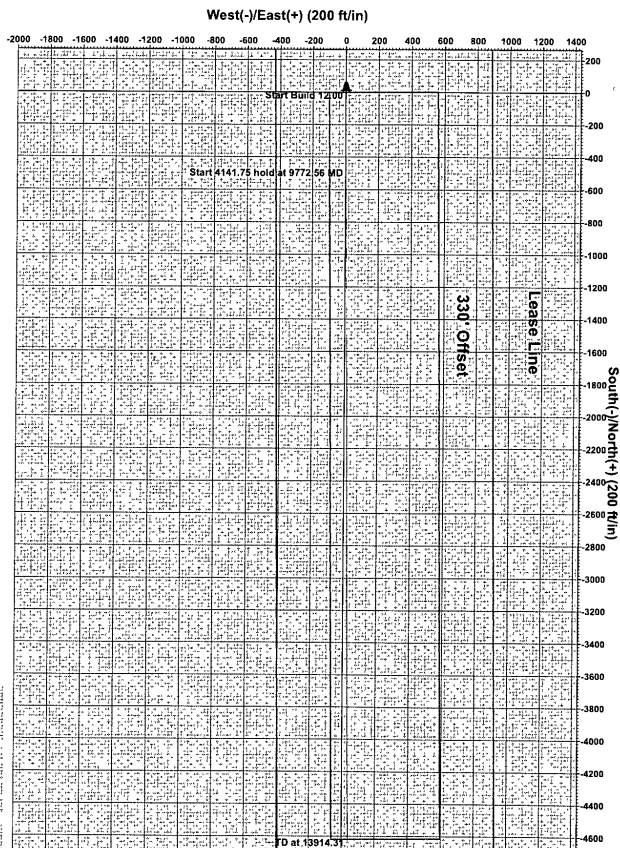
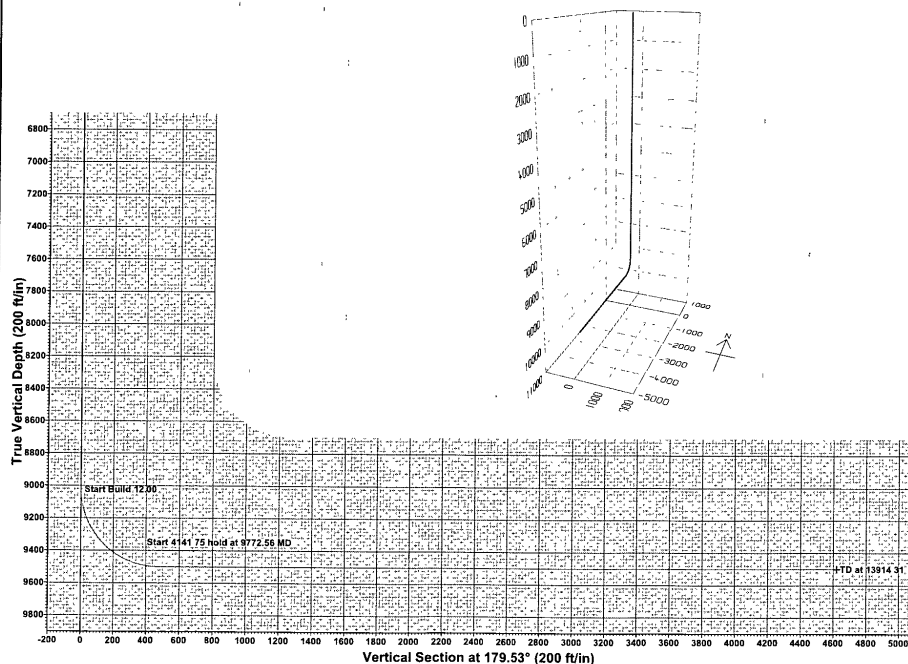
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	9022.50	0.00	0.00	9022.50	0.00	0.00	0.00	0.00	0.00
3	9772.56	90.00	179.53	9500.00	-477.48	3.92	12.00	179.53	477.50
4	13914.31	90.00	179.53	9500.00	-4619.10	37.89	0.00	0.00	4619.25 PBHL(H29#1)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBHL(H29#1)	9500.00	-4619.10	37.60	399293.200	758492.100	Point

LEGEND

+ Plan #1



Plan Plan #1 (#1/OH)

Created By: Nate Bingham Date: 13.22, January 04 2010

Checked: _____ Date: _____



EOG Resources, Inc.

Lea County
Horse "29" State
#1
OH

Plan: Plan #1

Pathfinder X & Y Planning Report

04 January, 2010

PATHFINDER

RECEIVED
JAN 06 2010
HOBBSOCD

API # 30-025-39633

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1
Project:	Lea County	TVD Reference:	WELL @ 3338.50ft (Original Well Elev)
Site:	Horse #29 State	MD Reference:	WELL @ 3338 50ft (Original Well Elev)
Well:	#1	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	Horse "29" State				
Site Position:		Northing:	403,912.300 ft	Latitude:	32° 6' 27.793 N
From:	Map	Easting:	758,454.500 ft	Longitude:	103° 29' 55.070 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.44 °

Well	#1					
Well Position	+N/-S	0.00 ft	Northing:	403,912.300 ft	Latitude:	32° 6' 27.793 N
	+E/-W	0.00 ft	Easting:	758,454.500 ft	Longitude:	103° 29' 55.070 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,319.50 ft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.71	60.14	48,730

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	179.53

Survey Tool Program		Date 12/17/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	13,914.09	Plan #1 (OH)	MWD	MWD - Standard

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1
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Site:	Horse "29" State	MD Reference:	WELL @ 3338.50ft (Original Well Elev)
Well:	#1	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	-3,338.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
100.00	0.00	0.00	100.00	-3,238.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
200.00	0.00	0.00	200.00	-3,138.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
300.00	0.00	0.00	300.00	-3,038.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
400.00	0.00	0.00	400.00	-2,938.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
500.00	0.00	0.00	500.00	-2,838.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
600.00	0.00	0.00	600.00	-2,738.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
700.00	0.00	0.00	700.00	-2,638.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
800.00	0.00	0.00	800.00	-2,538.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
900.00	0.00	0.00	900.00	-2,438.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,000.00	0.00	0.00	1,000.00	-2,338.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,100.00	0.00	0.00	1,100.00	-2,238.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,200.00	0.00	0.00	1,200.00	-2,138.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,300.00	0.00	0.00	1,300.00	-2,038.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,400.00	0.00	0.00	1,400.00	-1,938.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,500.00	0.00	0.00	1,500.00	-1,838.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,600.00	0.00	0.00	1,600.00	-1,738.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,700.00	0.00	0.00	1,700.00	-1,638.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,800.00	0.00	0.00	1,800.00	-1,538.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
1,900.00	0.00	0.00	1,900.00	-1,438.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
2,000.00	0.00	0.00	2,000.00	-1,338.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
2,100.00	0.00	0.00	2,100.00	-1,238.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
2,200.00	0.00	0.00	2,200.00	-1,138.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
2,300.00	0.00	0.00	2,300.00	-1,038.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
2,400.00	0.00	0.00	2,400.00	-938.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
2,500.00	0.00	0.00	2,500.00	-838.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
2,600.00	0.00	0.00	2,600.00	-738.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	

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Well:	#1	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	-638.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
2,800.00	0.00	0.00	2,800.00	-538.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
2,900.00	0.00	0.00	2,900.00	-438.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,000.00	0.00	0.00	3,000.00	-338.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,100.00	0.00	0.00	3,100.00	-238.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,200.00	0.00	0.00	3,200.00	-138.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,300.00	0.00	0.00	3,300.00	-38.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,400.00	0.00	0.00	3,400.00	61.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,500.00	0.00	0.00	3,500.00	161.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,600.00	0.00	0.00	3,600.00	261.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,700.00	0.00	0.00	3,700.00	361.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,800.00	0.00	0.00	3,800.00	461.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
3,900.00	0.00	0.00	3,900.00	561.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,000.00	0.00	0.00	4,000.00	661.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,100.00	0.00	0.00	4,100.00	761.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,200.00	0.00	0.00	4,200.00	861.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,300.00	0.00	0.00	4,300.00	961.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,400.00	0.00	0.00	4,400.00	1,061.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,500.00	0.00	0.00	4,500.00	1,161.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,600.00	0.00	0.00	4,600.00	1,261.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,700.00	0.00	0.00	4,700.00	1,361.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,800.00	0.00	0.00	4,800.00	1,461.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
4,900.00	0.00	0.00	4,900.00	1,561.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
5,000.00	0.00	0.00	5,000.00	1,661.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
5,100.00	0.00	0.00	5,100.00	1,761.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
5,200.00	0.00	0.00	5,200.00	1,861.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
5,300.00	0.00	0.00	5,300.00	1,961.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50

Company:	EOG Resources, Inc	Local Co-ordinate Reference:	Well #1
Project:	Lea County	TVD Reference:	WELL @ 3338.50ft (Original Well Elev)
Site:	Horse "29" State	MD Reference:	WELL @ 3338.50ft (Original Well Elev)
Well:	#1	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)	
5,400.00	0.00	0.00	5,400.00	2,061.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
5,500.00	0.00	0.00	5,500.00	2,161.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
5,600.00	0.00	0.00	5,600.00	2,261.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
5,700.00	0.00	0.00	5,700.00	2,361.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
5,800.00	0.00	0.00	5,800.00	2,461.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
5,900.00	0.00	0.00	5,900.00	2,561.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,000.00	0.00	0.00	6,000.00	2,661.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,100.00	0.00	0.00	6,100.00	2,761.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,200.00	0.00	0.00	6,200.00	2,861.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,300.00	0.00	0.00	6,300.00	2,961.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,400.00	0.00	0.00	6,400.00	3,061.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,500.00	0.00	0.00	6,500.00	3,161.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,600.00	0.00	0.00	6,600.00	3,261.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,700.00	0.00	0.00	6,700.00	3,361.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,800.00	0.00	0.00	6,800.00	3,461.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
6,900.00	0.00	0.00	6,900.00	3,561.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,000.00	0.00	0.00	7,000.00	3,661.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,100.00	0.00	0.00	7,100.00	3,761.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,200.00	0.00	0.00	7,200.00	3,861.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,300.00	0.00	0.00	7,300.00	3,961.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,400.00	0.00	0.00	7,400.00	4,061.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,500.00	0.00	0.00	7,500.00	4,161.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,600.00	0.00	0.00	7,600.00	4,261.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,700.00	0.00	0.00	7,700.00	4,361.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,800.00	0.00	0.00	7,800.00	4,461.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
7,900.00	0.00	0.00	7,900.00	4,561.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	
8,000.00	0.00	0.00	8,000.00	4,661.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50	

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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)
8,100.00	0.00	0.00	8,100.00	4,761.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
8,200.00	0.00	0.00	8,200.00	4,861.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
8,300.00	0.00	0.00	8,300.00	4,961.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
8,400.00	0.00	0.00	8,400.00	5,061.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
8,500.00	0.00	0.00	8,500.00	5,161.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
8,600.00	0.00	0.00	8,600.00	5,261.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
8,700.00	0.00	0.00	8,700.00	5,361.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
8,800.00	0.00	0.00	8,800.00	5,461.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
8,900.00	0.00	0.00	8,900.00	5,561.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
9,000.00	0.00	0.00	9,000.00	5,661.50	0.00	0.00	0.00	0.00	403,912.30	758,454.50
9,022.50	0.00	0.00	9,022.50	5,684.00	0.00	0.00	0.00	0.00	403,912.30	758,454.50
9,025.00	0.30	179.53	9,025.00	5,686.50	-0.01	0.00	0.01	12.00	403,912.29	758,454.50
9,050.00	3.30	179.53	9,049.98	5,711.48	-0.79	0.01	0.79	12.00	403,911.51	758,454.51
9,075.00	6.30	179.53	9,074.89	5,736.39	-2.88	0.02	2.88	12.00	403,909.42	758,454.52
9,100.00	9.30	179.53	9,099.66	5,761.16	-6.28	0.05	6.28	12.00	403,906.02	758,454.55
9,125.00	12.30	179.53	9,124.21	5,785.71	-10.96	0.09	10.96	12.00	403,901.34	758,454.59
9,150.00	15.30	179.53	9,148.49	5,809.99	-16.92	0.14	16.92	12.00	403,895.38	758,454.64
9,175.00	18.30	179.53	9,172.42	5,833.92	-24.14	0.20	24.15	12.00	403,888.16	758,454.70
9,200.00	21.30	179.53	9,195.94	5,857.44	-32.61	0.27	32.61	12.00	403,879.69	758,454.77
9,225.00	24.30	179.53	9,218.98	5,880.48	-42.30	0.35	42.30	12.00	403,870.00	758,454.85
9,250.00	27.30	179.53	9,241.49	5,902.99	-53.18	0.44	53.18	12.00	403,859.12	758,454.94
9,275.00	30.30	179.53	9,263.40	5,924.90	-65.22	0.53	65.22	12.00	403,847.08	758,455.03
9,300.00	33.30	179.53	9,284.64	5,946.14	-78.39	0.64	78.39	12.00	403,833.91	758,455.14
9,325.00	36.30	179.53	9,305.17	5,966.67	-92.65	0.76	92.66	12.00	403,819.65	758,455.26
9,350.00	39.30	179.53	9,324.92	5,986.42	-107.97	0.89	107.98	12.00	403,804.33	758,455.39
9,375.00	42.30	179.53	9,343.84	6,005.34	-124.30	1.02	124.31	12.00	403,788.00	758,455.52
9,400.00	45.30	179.53	9,361.89	6,023.39	-141.60	1.16	141.61	12.00	403,770.70	758,455.66

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1
Project:	Lea County	TVD Reference:	WELL @ 3338.50ft (Original Well Elev)
Site:	Horse "29" State	MD Reference:	WELL @ 3338.50ft (Original Well Elev)
Well:	#1	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)	
9,425.00	48.30	179.53	9,379.00	6,040.50	-159.82	1.31	159.83	12.00	403,752.48	758,455.81	
9,450.00	51.30	179.53	9,395.14	6,056.64	-178.92	1.47	178.92	12.00	403,733.38	758,455.97	
9,475.00	54.30	179.53	9,410.25	6,071.75	-198.83	1.63	198.83	12.00	403,713.47	758,456.13	
9,500.00	57.30	179.53	9,424.30	6,085.80	-219.50	1.80	219.51	12.00	403,692.80	758,456.30	
9,525.00	60.30	179.53	9,437.25	6,098.75	-240.88	1.98	240.89	12.00	403,671.42	758,456.48	
9,550.00	63.30	179.53	9,449.07	6,110.57	-262.91	2.16	262.92	12.00	403,649.39	758,456.66	
9,575.00	66.30	179.53	9,459.71	6,121.21	-285.52	2.34	285.53	12.00	403,626.78	758,456.84	
9,600.00	69.29	179.53	9,469.16	6,130.66	-308.67	2.53	308.68	12.00	403,603.63	758,457.03	
9,625.00	72.29	179.53	9,477.38	6,138.88	-332.27	2.73	332.28	12.00	403,580.03	758,457.23	
9,650.00	75.29	179.53	9,484.36	6,145.86	-356.27	2.92	356.29	12.00	403,556.03	758,457.42	
9,675.00	78.29	179.53	9,490.07	6,151.57	-380.61	3.12	380.62	12.00	403,531.69	758,457.62	
9,700.00	81.29	179.53	9,494.50	6,156.00	-405.21	3.32	405.22	12.00	403,507.09	758,457.82	
9,725.00	84.29	179.53	9,497.63	6,159.13	-430.01	3.53	430.02	12.00	403,482.29	758,458.03	
9,750.00	87.29	179.53	9,499.47	6,160.97	-454.94	3.73	454.95	12.00	403,457.36	758,458.23	
9,772.56	90.00	179.53	9,500.00	6,161.50	-477.48	3.92	477.50	12.00	403,434.82	758,458.42	
9,800.00	90.00	179.53	9,500.00	6,161.50	-504.93	4.14	504.94	0.00	403,407.37	758,458.64	
9,900.00	90.00	179.53	9,500.00	6,161.50	-604.92	4.96	604.94	0.00	403,307.38	758,459.46	
10,000.00	90.00	179.53	9,500.00	6,161.50	-704.92	5.78	704.94	0.00	403,207.38	758,460.28	
10,100.00	90.00	179.53	9,500.00	6,161.50	-804.92	6.60	804.94	0.00	403,107.38	758,461.10	
10,200.00	90.00	179.53	9,500.00	6,161.50	-904.91	7.42	904.94	0.00	403,007.39	758,461.92	
10,300.00	90.00	179.53	9,500.00	6,161.50	-1,004.91	8.24	1,004.94	0.00	402,907.39	758,462.74	
10,400.00	90.00	179.53	9,500.00	6,161.50	-1,104.91	9.06	1,104.94	0.00	402,807.39	758,463.56	
10,500.00	90.00	179.53	9,500.00	6,161.50	-1,204.90	9.88	1,204.94	0.00	402,707.40	758,464.38	
10,600.00	90.00	179.53	9,500.00	6,161.50	-1,304.90	10.70	1,304.94	0.00	402,607.40	758,465.20	
10,700.00	90.00	179.53	9,500.00	6,161.50	-1,404.90	11.52	1,404.94	0.00	402,507.40	758,466.02	
10,800.00	90.00	179.53	9,500.00	6,161.50	-1,504.89	12.34	1,504.94	0.00	402,407.41	758,466.84	
10,900.00	90.00	179.53	9,500.00	6,161.50	-1,604.89	13.17	1,604.94	0.00	402,307.41	758,467.67	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1
Project:	Lea County	TVD Reference:	WELL @ 3338 50ft (Original Well Elev)
Site:	Horse "29" State	MD Reference:	WELL @ 3338 50ft (Original Well Elev)
Well:	#1	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	179.53	9,500.00	6,161.50	-1,704.89	13.99	1,704.94	0.00	402,207.41	758,468.49	
11,100.00	90.00	179.53	9,500.00	6,161.50	-1,804.88	14.81	1,804.94	0.00	402,107.42	758,469.31	
11,200.00	90.00	179.53	9,500.00	6,161.50	-1,904.88	15.63	1,904.94	0.00	402,007.42	758,470.13	
11,300.00	90.00	179.53	9,500.00	6,161.50	-2,004.88	16.45	2,004.94	0.00	401,907.42	758,470.95	
11,400.00	90.00	179.53	9,500.00	6,161.50	-2,104.87	17.27	2,104.94	0.00	401,807.43	758,471.77	
11,500.00	90.00	179.53	9,500.00	6,161.50	-2,204.87	18.09	2,204.94	0.00	401,707.43	758,472.59	
11,600.00	90.00	179.53	9,500.00	6,161.50	-2,304.87	18.91	2,304.94	0.00	401,607.43	758,473.41	
11,700.00	90.00	179.53	9,500.00	6,161.50	-2,404.86	19.73	2,404.94	0.00	401,507.44	758,474.23	
11,800.00	90.00	179.53	9,500.00	6,161.50	-2,504.86	20.55	2,504.94	0.00	401,407.44	758,475.05	
11,900.00	90.00	179.53	9,500.00	6,161.50	-2,604.86	21.37	2,604.94	0.00	401,307.44	758,475.87	
12,000.00	90.00	179.53	9,500.00	6,161.50	-2,704.85	22.19	2,704.94	0.00	401,207.45	758,476.69	
12,100.00	90.00	179.53	9,500.00	6,161.50	-2,804.85	23.01	2,804.94	0.00	401,107.45	758,477.51	
12,200.00	90.00	179.53	9,500.00	6,161.50	-2,904.85	23.83	2,904.94	0.00	401,007.45	758,478.33	
12,300.00	90.00	179.53	9,500.00	6,161.50	-3,004.84	24.65	3,004.94	0.00	400,907.46	758,479.15	
12,400.00	90.00	179.53	9,500.00	6,161.50	-3,104.84	25.47	3,104.94	0.00	400,807.46	758,479.97	
12,500.00	90.00	179.53	9,500.00	6,161.50	-3,204.84	26.29	3,204.94	0.00	400,707.46	758,480.79	
12,600.00	90.00	179.53	9,500.00	6,161.50	-3,304.83	27.11	3,304.94	0.00	400,607.47	758,481.61	
12,700.00	90.00	179.53	9,500.00	6,161.50	-3,404.83	27.93	3,404.94	0.00	400,507.47	758,482.43	
12,800.00	90.00	179.53	9,500.00	6,161.50	-3,504.83	28.75	3,504.94	0.00	400,407.47	758,483.25	
12,900.00	90.00	179.53	9,500.00	6,161.50	-3,604.82	29.57	3,604.94	0.00	400,307.48	758,484.07	
13,000.00	90.00	179.53	9,500.00	6,161.50	-3,704.82	30.39	3,704.94	0.00	400,207.48	758,484.89	
13,100.00	90.00	179.53	9,500.00	6,161.50	-3,804.82	31.21	3,804.94	0.00	400,107.48	758,485.71	
13,200.00	90.00	179.53	9,500.00	6,161.50	-3,904.81	32.03	3,904.94	0.00	400,007.49	758,486.53	
13,300.00	90.00	179.53	9,500.00	6,161.50	-4,004.81	32.85	4,004.94	0.00	399,907.49	758,487.35	
13,400.00	90.00	179.53	9,500.00	6,161.50	-4,104.81	33.67	4,104.94	0.00	399,807.49	758,488.17	
13,500.00	90.00	179.53	9,500.00	6,161.50	-4,204.80	34.49	4,204.94	0.00	399,707.50	758,488.99	
13,600.00	90.00	179.53	9,500.00	6,161.50	-4,304.80	35.31	4,304.94	0.00	399,607.50	758,489.81	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1
Project:	Lea County	TVD Reference:	WELL @ 3338.50ft (Original Well Elev)
Site:	Horse "29" State	MD Reference:	WELL @ 3338.50ft (Original Well Elev)
Well:	#1	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	179.53	9,500.00	6,161.50	-4,404.80	36.13	4,404.94	0.00	399,507.50	758,490.63	
13,800.00	90.00	179.53	9,500.00	6,161.50	-4,504.79	36.95	4,504.94	0.00	399,407.51	758,491.45	
13,900.00	90.00	179.53	9,500.00	6,161.50	-4,604.79	37.77	4,604.94	0.00	399,307.51	758,492.27	
13,914.31	90.00	179.53	9,500.00	6,161.50	-4,619.10	37.89	4,619.25	0.00	399,293.20	758,492.39	
PBHL(H29#1)											

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
hit/miss target									
Shape									
PBHL(H29#1)	0.00	0.00	9,500.00	-4,619.10	37.60	399,293.200	758,492.100	32° 5' 42.082 N	103° 29' 55.048 W
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____