



EOG Resources, Inc.

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

RECEIVED
OCT 21 2010
HOBBSOCD

Plan: Plan #3

Pathfinder X & Y Planning Report

01 October, 2010

PATHFINDER[®]
A Schlumberger Company

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

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: Endurance "25" Fed Com

Site Position: From: Map
Position Uncertainty: 0.00 ft
Northing: 372,173.800 ft
Easting: 751,132.000 ft
Slot Radius: "
Latitude: 32° 1' 14.273 N
Longitude: 103° 31' 22.968 W
Grid Convergence: 0.43 °

Well: #1H

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

Wellbore: ST

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	09/15/10	7.63	60.04	48,607

Design: Plan #3

Audit Notes:

Version: Phase: PLAN Tie On Depth: 9,050.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.56

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Survey Tool Program Date 10/01/10

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	9,050.00	GYRO (ST)	CB-GYRO-MS	Camera based gyro multishot
9,050.00	16,527.11	Plan #3 (ST)	MWD	MWD - Standard

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	-3,390.30	0.00	0.00	0.00	0.00	372,173.80	751,132.00	
100.00	0.16	187.00	100.00	-3,290.30	-0.14	-0.02	0.14	0.16	372,173.66	751,131.98	
200.00	0.22	118.59	200.00	-3,190.30	-0.37	0.13	0.37	0.22	372,173.43	751,132.13	
300.00	0.27	128.66	300.00	-3,090.30	-0.61	0.49	0.61	0.07	372,173.19	751,132.49	
400.00	0.26	126.03	400.00	-2,990.30	-0.89	0.85	0.90	0.02	372,172.91	751,132.85	
500.00	0.27	96.60	500.00	-2,890.30	-1.05	1.27	1.06	0.13	372,172.75	751,133.27	
600.00	0.27	106.68	600.00	-2,790.30	-1.14	1.73	1.16	0.05	372,172.66	751,133.73	
700.00	0.30	79.83	699.99	-2,690.31	-1.17	2.22	1.18	0.14	372,172.63	751,134.22	
800.00	0.31	95.51	799.99	-2,590.31	-1.15	2.74	1.17	0.08	372,172.65	751,134.74	
900.00	0.49	51.01	899.99	-2,490.31	-0.90	3.34	0.93	0.35	372,172.90	751,135.34	
1,000.00	0.41	44.89	999.99	-2,390.31	-0.38	3.93	0.41	0.09	372,173.42	751,135.93	
1,100.00	0.63	50.31	1,099.98	-2,290.32	0.23	4.60	-0.19	0.23	372,174.03	751,136.60	
1,200.00	0.49	44.02	1,199.98	-2,190.32	0.88	5.32	-0.84	0.15	372,174.68	751,137.32	
1,300.00	0.63	47.24	1,299.97	-2,090.33	1.56	6.03	-1.52	0.14	372,175.36	751,138.03	
1,400.00	0.51	44.45	1,399.97	-1,990.33	2.26	6.74	-2.20	0.12	372,176.06	751,138.74	
1,500.00	0.67	59.14	1,499.96	-1,890.34	2.87	7.55	-2.82	0.22	372,176.67	751,139.55	
1,600.00	0.65	57.51	1,599.96	-1,790.34	3.48	8.53	-3.41	0.03	372,177.28	751,140.53	
1,700.00	0.45	83.22	1,699.95	-1,690.35	3.83	9.40	-3.76	0.31	372,177.63	751,141.40	
1,800.00	0.68	123.45	1,799.95	-1,590.35	3.55	10.29	-3.47	0.44	372,177.35	751,142.29	
1,900.00	1.05	130.67	1,899.94	-1,490.36	2.62	11.48	-2.54	0.38	372,176.42	751,143.48	
2,000.00	1.24	140.45	1,999.92	-1,390.38	1.19	12.86	-1.09	0.27	372,174.99	751,144.86	

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' 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)
2,100.00	1.63	163.41	2,099.89	-1,290.41	-1.01	13.96	1.11	0.69	372,172.79	751,145.96
2,200.00	1.76	173.61	2,199.84	-1,190.46	-3.89	14.53	4.00	0.33	372,169.91	751,146.53
2,300.00	1.32	192.23	2,299.81	-1,090.49	-6.55	14.46	6.66	0.66	372,167.25	751,146.46
2,400.00	0.65	247.81	2,399.79	-990.51	-7.89	13.69	7.99	1.09	372,165.91	751,145.69
2,500.00	0.75	326.54	2,499.79	-890.51	-7.55	12.81	7.65	0.89	372,166.25	751,144.81
2,600.00	0.87	6.94	2,599.78	-790.52	-6.25	12.54	6.35	0.57	372,167.55	751,144.54
2,700.00	1.23	30.67	2,699.76	-690.54	-4.58	13.18	4.68	0.56	372,169.22	751,145.18
2,800.00	1.43	40.04	2,799.73	-590.57	-2.70	14.53	2.81	0.29	372,171.10	751,146.53
2,900.00	0.36	5.32	2,899.72	-490.58	-1.43	15.36	1.55	1.15	372,172.37	751,147.36
3,000.00	0.18	104.00	2,999.72	-390.58	-1.16	15.54	1.27	0.43	372,172.64	751,147.54
3,100.00	1.20	97.99	3,099.71	-290.59	-1.34	16.73	1.47	1.02	372,172.46	751,148.73
3,200.00	1.89	86.97	3,199.68	-190.62	-1.40	19.41	1.55	0.75	372,172.40	751,151.41
3,300.00	0.95	42.43	3,299.65	-90.65	-0.70	21.62	0.86	1.38	372,173.10	751,153.62
3,400.00	0.55	6.36	3,399.64	9.34	0.39	22.23	-0.22	0.60	372,174.19	751,154.23
3,500.00	0.60	5.55	3,499.63	109.33	1.39	22.33	-1.22	0.05	372,175.19	751,154.33
3,600.00	0.22	217.15	3,599.63	209.33	1.76	22.27	-1.59	0.80	372,175.56	751,154.27
3,700.00	0.69	120.58	3,699.63	309.33	1.30	22.67	-1.12	0.75	372,175.10	751,154.67
3,800.00	1.39	88.16	3,799.61	409.31	1.03	24.40	-0.84	0.89	372,174.83	751,156.40
3,900.00	1.49	61.38	3,899.58	509.28	1.69	26.76	-1.49	0.67	372,175.49	751,158.76
4,000.00	2.34	30.98	3,999.53	609.23	4.06	28.95	-3.84	1.30	372,177.86	751,160.95
4,100.00	2.59	24.16	4,099.44	709.14	7.88	30.92	-7.64	0.38	372,181.68	751,162.92
4,200.00	2.41	24.78	4,199.34	809.04	11.85	32.73	-11.60	0.18	372,185.65	751,164.73
4,300.00	1.21	48.52	4,299.29	908.99	14.45	34.40	-14.19	1.39	372,188.25	751,166.40
4,400.00	1.08	72.41	4,399.27	1,008.97	15.44	36.09	-15.16	0.49	372,189.24	751,168.09
4,500.00	2.00	86.34	4,499.23	1,108.93	15.83	38.73	-15.54	0.99	372,189.63	751,170.73
4,600.00	2.43	87.09	4,599.16	1,208.86	16.05	42.59	-15.73	0.43	372,189.85	751,174.59
4,700.00	2.12	84.19	4,699.08	1,308.78	16.35	46.55	-15.99	0.33	372,190.15	751,178.55

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' 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)
4,800.00	1.86	81.04	4,799.02	1,408.72	16.79	49.99	-16.41	0.28	372,190.59	751,181.99
4,900.00	1.04	118.88	4,898.99	1,508.69	16.60	52.39	-16.20	1.22	372,190.40	751,184.39
5,000.00	1.56	194.03	4,998.97	1,608.67	14.84	52.85	-14.44	1.64	372,188.64	751,184.85
5,100.00	1.68	202.23	5,098.93	1,708.63	12.17	51.97	-11.77	0.26	372,185.97	751,183.97
5,200.00	0.91	228.86	5,198.90	1,808.60	10.29	50.82	-9.90	0.96	372,184.09	751,182.82
5,300.00	0.90	243.14	5,298.89	1,908.59	9.41	49.52	-9.03	0.23	372,183.21	751,181.52
5,400.00	1.02	244.04	5,398.88	2,008.58	8.67	48.02	-8.30	0.12	372,182.47	751,180.02
5,500.00	0.87	234.07	5,498.86	2,108.56	7.83	46.60	-7.48	0.22	372,181.63	751,178.60
5,600.00	0.96	246.77	5,598.85	2,208.55	7.05	45.22	-6.71	0.22	372,180.85	751,177.22
5,700.00	0.99	243.27	5,698.84	2,308.54	6.34	43.68	-6.00	0.07	372,180.14	751,175.68
5,800.00	1.00	212.64	5,798.82	2,408.52	5.21	42.43	-4.89	0.53	372,179.01	751,174.43
5,900.00	1.06	233.54	5,898.81	2,508.51	3.93	41.22	-3.61	0.38	372,177.73	751,173.22
6,000.00	1.17	233.88	5,998.79	2,608.49	2.78	39.65	-2.47	0.11	372,176.58	751,171.65
6,100.00	1.08	234.94	6,098.77	2,708.47	1.63	38.05	-1.34	0.09	372,175.43	751,170.05
6,200.00	1.35	231.58	6,198.74	2,808.44	0.36	36.36	-0.08	0.28	372,174.16	751,168.36
6,300.00	1.34	224.33	6,298.72	2,908.42	-1.21	34.62	1.47	0.17	372,172.59	751,166.62
6,400.00	1.31	229.50	6,398.69	3,008.39	-2.79	32.93	3.04	0.12	372,171.01	751,164.93
6,500.00	1.34	231.06	6,498.66	3,108.36	-4.26	31.15	4.50	0.05	372,169.54	751,163.15
6,600.00	1.42	228.25	6,598.63	3,208.33	-5.82	29.32	6.05	0.10	372,167.98	751,161.32
6,700.00	0.96	222.72	6,698.61	3,308.31	-7.27	27.83	7.48	0.47	372,166.53	751,159.83
6,800.00	0.83	178.49	6,798.60	3,408.30	-8.60	27.28	8.81	0.68	372,165.20	751,159.28
6,900.00	0.75	181.64	6,898.59	3,508.29	-9.98	27.28	10.19	0.09	372,163.82	751,159.28
7,000.00	0.86	184.99	6,998.58	3,608.28	-11.39	27.20	11.59	0.12	372,162.41	751,159.20
7,100.00	0.84	183.78	7,098.57	3,708.27	-12.86	27.08	13.07	0.03	372,160.94	751,159.08
7,200.00	0.92	185.47	7,198.56	3,808.26	-14.39	26.96	14.60	0.08	372,159.41	751,158.96
7,300.00	0.52	215.81	7,298.55	3,908.25	-15.56	26.61	15.76	0.54	372,158.24	751,158.61
7,400.00	0.36	206.20	7,398.55	4,008.25	-16.21	26.21	16.41	0.18	372,157.59	751,158.21

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' 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)
7,500.00	0.40	232.79	7,498.55	4,108.25	-16.70	25.79	16.90	0.18	372,157.10	751,157.79
7,600.00	0.57	226.90	7,598.54	4,208.24	-17.26	25.15	17.45	0.18	372,156.54	751,157.15
7,700.00	0.62	231.04	7,698.54	4,308.24	-17.94	24.37	18.12	0.07	372,155.86	751,156.37
7,800.00	0.77	223.21	7,798.53	4,408.23	-18.77	23.49	18.94	0.18	372,155.03	751,155.49
7,900.00	0.88	219.79	7,898.52	4,508.22	-19.85	22.54	20.02	0.12	372,153.95	751,154.54
8,000.00	0.99	220.81	7,998.51	4,608.21	-21.09	21.48	21.25	0.11	372,152.71	751,153.48
8,100.00	0.98	213.18	8,098.49	4,708.19	-22.46	20.45	22.61	0.13	372,151.34	751,152.45
8,200.00	0.86	208.54	8,198.48	4,808.18	-23.83	19.62	23.98	0.14	372,149.97	751,151.62
8,300.00	0.95	207.02	8,298.47	4,908.17	-25.23	18.89	25.37	0.09	372,148.57	751,150.89
8,400.00	1.04	207.75	8,398.45	5,008.15	-26.77	18.09	26.91	0.09	372,147.03	751,150.09
8,500.00	1.11	201.00	8,498.43	5,108.13	-28.48	17.32	28.61	0.14	372,145.32	751,149.32
8,600.00	1.18	194.29	8,598.41	5,208.11	-30.38	16.72	30.51	0.15	372,143.42	751,148.72
8,700.00	1.15	194.34	8,698.39	5,308.09	-32.35	16.21	32.48	0.03	372,141.45	751,148.21
8,800.00	1.14	196.42	8,798.37	5,408.07	-34.28	15.68	34.40	0.04	372,139.52	751,147.68
8,900.00	1.14	197.35	8,898.35	5,508.05	-36.18	15.11	36.30	0.02	372,137.62	751,147.11
9,000.00	1.21	201.77	8,998.33	5,608.03	-38.11	14.42	38.22	0.11	372,135.69	751,146.42
9,050.00	1.22	203.59	9,048.32	5,658.02	-39.09	14.01	39.20	0.08	372,134.71	751,146.01
KOP-9050.00'MD, 1.22°INC, 203.59°AZI, 9048.32'TVD										
9,100.00	5.20	179.03	9,098.23	5,707.93	-41.85	13.83	41.95	8.25	372,131.95	751,145.83
9,150.00	9.31	175.90	9,147.82	5,757.52	-48.15	14.16	48.26	8.25	372,125.65	751,146.16
9,200.00	13.43	174.67	9,196.83	5,806.53	-57.97	14.99	58.09	8.25	372,115.83	751,146.99
9,250.00	17.55	174.02	9,245.00	5,854.70	-71.26	16.32	71.38	8.25	372,102.54	751,148.32
9,300.00	21.68	173.61	9,292.09	5,901.79	-87.94	18.13	88.08	8.25	372,085.86	751,150.13
9,350.00	25.80	173.32	9,337.85	5,947.55	-107.94	20.43	108.09	8.25	372,065.86	751,152.43
9,400.00	29.93	173.11	9,382.04	5,991.74	-131.14	23.19	131.31	8.25	372,042.66	751,155.19
9,450.00	34.05	172.94	9,424.44	6,034.14	-157.43	26.41	157.62	8.25	372,016.37	751,158.41
9,500.00	38.18	172.81	9,464.82	6,074.52	-186.66	30.06	186.89	8.25	371,987.14	751,162.06

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' 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)	
9,550.00	42.30	172.70	9,502.98	6,112.68	-218.70	34.14	218.95	8.25	371,955.10	751,166.14	
9,600.00	46.43	172.61	9,538.72	6,148.42	-253.36	38.61	253.65	8.25	371,920.44	751,170.61	
9,650.00	50.55	172.52	9,571.85	6,181.55	-290.48	43.45	290.81	8.25	371,883.32	751,175.45	
9,700.00	54.68	172.45	9,602.20	6,211.90	-329.86	48.65	330.23	8.25	371,843.94	751,180.65	
9,750.00	58.81	172.38	9,629.61	6,239.31	-371.30	54.16	371.70	8.25	371,802.50	751,186.16	
9,800.00	62.93	172.32	9,653.95	6,263.65	-414.58	59.97	415.02	8.25	371,759.22	751,191.97	
9,850.00	67.06	172.27	9,675.08	6,284.78	-459.47	66.05	459.96	8.25	371,714.33	751,198.05	
9,900.00	71.18	172.22	9,692.89	6,302.59	-505.75	72.35	506.29	8.25	371,668.05	751,204.35	
9,950.00	75.31	172.17	9,707.30	6,317.00	-553.18	78.86	553.76	8.25	371,620.62	751,210.86	
10,000.00	79.44	172.12	9,718.23	6,327.93	-601.50	85.53	602.13	8.25	371,572.30	751,217.53	
10,050.00	83.56	172.07	9,725.62	6,335.32	-650.47	92.33	651.15	8.25	371,523.33	751,224.33	
10,100.00	87.69	172.02	9,729.44	6,339.14	-699.83	99.22	700.57	8.25	371,473.97	751,231.22	
10,125.85	89.82	172.00	9,730.00	6,339.70	-725.43	102.81	726.19	8.25	371,448.37	751,234.81	
EOC-10125.85°MD,89.82°INC,172.00°AZI,9730.00°TVD,8.25°DLS, 726.18°VS, -725.42°N, 102.81°E											
10,200.00	89.82	173.85	9,730.23	6,339.93	-799.01	111.94	799.83	2.50	371,374.79	751,243.94	
10,300.00	89.82	176.35	9,730.55	6,340.25	-898.63	120.48	899.52	2.50	371,275.17	751,252.48	
10,400.00	89.82	178.85	9,730.86	6,340.56	-998.54	124.66	999.46	2.50	371,175.26	751,256.66	
10,472.64	89.82	180.67	9,731.09	6,340.79	-1,071.17	124.96	1,072.09	2.50	371,102.63	751,256.96	
Start 6054.47 hold at 10472.64 MD											
10,500.00	89.82	180.67	9,731.17	6,340.87	-1,098.53	124.64	1,099.45	0.00	371,075.27	751,256.64	
10,600.00	89.82	180.67	9,731.49	6,341.19	-1,198.52	123.47	1,199.43	0.00	370,975.28	751,255.47	
10,700.00	89.82	180.67	9,731.80	6,341.50	-1,298.52	122.30	1,299.41	0.00	370,875.28	751,254.30	
10,800.00	89.82	180.67	9,732.11	6,341.81	-1,398.51	121.14	1,399.39	0.00	370,775.29	751,253.14	
10,900.00	89.82	180.67	9,732.42	6,342.12	-1,498.50	119.97	1,499.37	0.00	370,675.30	751,251.97	
11,000.00	89.82	180.67	9,732.74	6,342.44	-1,598.49	118.80	1,599.35	0.00	370,575.31	751,250.80	
11,100.00	89.82	180.67	9,733.05	6,342.75	-1,698.49	117.63	1,699.33	0.00	370,475.31	751,249.63	
11,200.00	89.82	180.67	9,733.36	6,343.06	-1,798.48	116.46	1,799.31	0.00	370,375.32	751,248.46	

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' 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)
11,300.00	89.82	180.67	9,733.67	6,343.37	-1,898.47	115.29	1,899.29	0.00	370,275.33	751,247.29
11,400.00	89.82	180.67	9,733.99	6,343.69	-1,998.46	114.12	1,999.28	0.00	370,175.34	751,246.12
11,500.00	89.82	180.67	9,734.30	6,344.00	-2,098.46	112.95	2,099.26	0.00	370,075.34	751,244.95
11,600.00	89.82	180.67	9,734.61	6,344.31	-2,198.45	111.79	2,199.24	0.00	369,975.35	751,243.79
11,700.00	89.82	180.67	9,734.92	6,344.62	-2,298.44	110.62	2,299.22	0.00	369,875.36	751,242.62
11,800.00	89.82	180.67	9,735.23	6,344.93	-2,398.44	109.45	2,399.20	0.00	369,775.36	751,241.45
11,900.00	89.82	180.67	9,735.55	6,345.25	-2,498.43	108.28	2,499.18	0.00	369,675.37	751,240.28
12,000.00	89.82	180.67	9,735.86	6,345.56	-2,598.42	107.11	2,599.16	0.00	369,575.38	751,239.11
12,100.00	89.82	180.67	9,736.17	6,345.87	-2,698.41	105.94	2,699.14	0.00	369,475.39	751,237.94
12,200.00	89.82	180.67	9,736.48	6,346.18	-2,798.41	104.77	2,799.12	0.00	369,375.39	751,236.77
12,300.00	89.82	180.67	9,736.80	6,346.50	-2,898.40	103.60	2,899.10	0.00	369,275.40	751,235.60
12,400.00	89.82	180.67	9,737.11	6,346.81	-2,998.39	102.44	2,999.08	0.00	369,175.41	751,234.44
12,500.00	89.82	180.67	9,737.42	6,347.12	-3,098.38	101.27	3,099.06	0.00	369,075.42	751,233.27
12,600.00	89.82	180.67	9,737.73	6,347.43	-3,198.38	100.10	3,199.05	0.00	368,975.42	751,232.10
12,700.00	89.82	180.67	9,738.05	6,347.75	-3,298.37	98.93	3,299.03	0.00	368,875.43	751,230.93
12,800.00	89.82	180.67	9,738.36	6,348.06	-3,398.36	97.76	3,399.01	0.00	368,775.44	751,229.76
12,900.00	89.82	180.67	9,738.67	6,348.37	-3,498.36	96.59	3,498.99	0.00	368,675.44	751,228.59
13,000.00	89.82	180.67	9,738.98	6,348.68	-3,598.35	95.42	3,598.97	0.00	368,575.45	751,227.42
13,100.00	89.82	180.67	9,739.30	6,349.00	-3,698.34	94.25	3,698.95	0.00	368,475.46	751,226.25
13,200.00	89.82	180.67	9,739.61	6,349.31	-3,798.33	93.09	3,798.93	0.00	368,375.47	751,225.09
13,300.00	89.82	180.67	9,739.92	6,349.62	-3,898.33	91.92	3,898.91	0.00	368,275.47	751,223.92
13,400.00	89.82	180.67	9,740.23	6,349.93	-3,998.32	90.75	3,998.89	0.00	368,175.48	751,222.75
13,500.00	89.82	180.67	9,740.54	6,350.24	-4,098.31	89.58	4,098.87	0.00	368,075.49	751,221.58
13,600.00	89.82	180.67	9,740.86	6,350.56	-4,198.30	88.41	4,198.85	0.00	367,975.50	751,220.41
13,700.00	89.82	180.67	9,741.17	6,350.87	-4,298.30	87.24	4,298.84	0.00	367,875.50	751,219.24
13,800.00	89.82	180.67	9,741.48	6,351.18	-4,398.29	86.07	4,398.82	0.00	367,775.51	751,218.07
13,900.00	89.82	180.67	9,741.79	6,351.49	-4,498.28	84.90	4,498.80	0.00	367,675.52	751,216.90



Pathfinder
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' 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)
14,000.00	89.82	180.67	9,742.11	6,351.81	-4,598.27	83.74	4,598.78	0.00	367,575.53	751,215.74
14,100.00	89.82	180.67	9,742.42	6,352.12	-4,698.27	82.57	4,698.76	0.00	367,475.53	751,214.57
14,200.00	89.82	180.67	9,742.73	6,352.43	-4,798.26	81.40	4,798.74	0.00	367,375.54	751,213.40
14,300.00	89.82	180.67	9,743.04	6,352.74	-4,898.25	80.23	4,898.72	0.00	367,275.55	751,212.23
14,400.00	89.82	180.67	9,743.36	6,353.06	-4,998.25	79.06	4,998.70	0.00	367,175.55	751,211.06
14,500.00	89.82	180.67	9,743.67	6,353.37	-5,098.24	77.89	5,098.68	0.00	367,075.56	751,209.89
14,600.00	89.82	180.67	9,743.98	6,353.68	-5,198.23	76.72	5,198.66	0.00	366,975.57	751,208.72
14,700.00	89.82	180.67	9,744.29	6,353.99	-5,298.22	75.55	5,298.64	0.00	366,875.58	751,207.55
14,800.00	89.82	180.67	9,744.61	6,354.31	-5,398.22	74.39	5,398.63	0.00	366,775.58	751,206.39
14,900.00	89.82	180.67	9,744.92	6,354.62	-5,498.21	73.22	5,498.61	0.00	366,675.59	751,205.22
15,000.00	89.82	180.67	9,745.23	6,354.93	-5,598.20	72.05	5,598.59	0.00	366,575.60	751,204.05
15,100.00	89.82	180.67	9,745.54	6,355.24	-5,698.19	70.88	5,698.57	0.00	366,475.61	751,202.88
15,200.00	89.82	180.67	9,745.85	6,355.55	-5,798.19	69.71	5,798.55	0.00	366,375.61	751,201.71
15,300.00	89.82	180.67	9,746.17	6,355.87	-5,898.18	68.54	5,898.53	0.00	366,275.62	751,200.54
15,400.00	89.82	180.67	9,746.48	6,356.18	-5,998.17	67.37	5,998.51	0.00	366,175.63	751,199.37
15,500.00	89.82	180.67	9,746.79	6,356.49	-6,098.16	66.20	6,098.49	0.00	366,075.64	751,198.20
15,600.00	89.82	180.67	9,747.10	6,356.80	-6,198.16	65.04	6,198.47	0.00	365,975.64	751,197.04
15,700.00	89.82	180.67	9,747.42	6,357.12	-6,298.15	63.87	6,298.45	0.00	365,875.65	751,195.87
15,800.00	89.82	180.67	9,747.73	6,357.43	-6,398.14	62.70	6,398.43	0.00	365,775.66	751,194.70
15,900.00	89.82	180.67	9,748.04	6,357.74	-6,498.14	61.53	6,498.42	0.00	365,675.66	751,193.53
16,000.00	89.82	180.67	9,748.35	6,358.05	-6,598.13	60.36	6,598.40	0.00	365,575.67	751,192.36
16,100.00	89.82	180.67	9,748.67	6,358.37	-6,698.12	59.19	6,698.38	0.00	365,475.68	751,191.19
16,200.00	89.82	180.67	9,748.98	6,358.68	-6,798.11	58.02	6,798.36	0.00	365,375.69	751,190.02
16,300.00	89.82	180.67	9,749.29	6,358.99	-6,898.11	56.85	6,898.34	0.00	365,275.69	751,188.85
16,400.00	89.82	180.67	9,749.60	6,359.30	-6,998.10	55.69	6,998.32	0.00	365,175.70	751,187.69
16,500.00	89.82	180.67	9,749.92	6,359.62	-7,098.09	54.52	7,098.30	0.00	365,075.71	751,186.52

Company: EOG Resources, Inc.
Project: Lea County
Site: Endurance "25" Fed Com
Well: #1H
Wellbore: ST
Design: Plan #3

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' KB)
MD Reference: Well1 @ 3390.30ft (Cactus #123 - 30' 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)	DLag (°/100ft)	Northing (ft)	Easting (ft)
16,527.11	89.82	180.67	9,750.00	6,359.70	-7,125.20	54.20	7,125.41	0.00	365,048.60	751,186.20

TD at 16527.11 - PBHL(EN25#1)

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(EN25#1)	0.00	0.00	9,750.00	-7,125.20	54.20	365,048.600	751,186.200	32° 0' 3.760 N	103° 31' 22.959 W
- plan hits target center									
- Point									

Plan Annotations

Measured
Depth
(ft)

Vertical
Depth
(ft)

Local Coordinates
+N/-S
(ft)

+E/-W
(ft)

Comment

9,050.00	9,048.32	-39.09	14.01	KOP-9050.00'MD,1.22°INC,203.59°AZI,9048.32'TVD
10,125.85	9,730.00	-725.43	102.81	EOC-10125.85'MD,89.82°INC,172.00°AZI,9730.00'TVD,8.25°DLS, 726
10,472.64	9,731.09	-1,071.17	124.96	Start 6054.47 hold at 10472.64 MD
16,527.11	9,750.00	-7,125.20	54.20	TD at 16527.11

Checked By:	Approved By:	Date:
-------------	--------------	-------