



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Righteous 6 State Com

#601H

OH

Plan: Plan #0.1

Standard Planning Report

02 March, 2017



EOG Resources, Inc. Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Righteous 6 State Com
Well: #601H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3423.0usft
MD Reference: KB = 25' @ 3423.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Lea County, NM (NAD 27 NME)

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: Righteous 6 State Com

Site Position: Northing: 485,656.00 usft Latitude: 32° 19' 54.202 N
From: Map Easting: 788,668.00 usft Longitude: 103° 23' 55.564 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.50°

Well: #601H

Well Position: +N/-S 0.0 usft Northing: 485,656.00 usft Latitude: 32° 19' 54.202 N
+E/-W 0.0 usft Easting: 788,668.00 usft Longitude: 103° 23' 55.564 W
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,398.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/2/2017	6.91	60.19	48,051

Design: Plan #0.1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.62

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,532.8	5.33	359.53	4,532.1	24.8	-0.2	1.00	1.00	0.00	359.53	
10,816.1	5.33	359.53	10,788.2	609.2	-5.0	0.00	0.00	0.00	0.00	
11,610.5	90.00	179.61	11,310.0	132.8	-1.8	12.00	10.66	-22.65	-179.92	
18,777.5	90.00	179.61	11,310.0	-7,034.0	47.0	0.00	0.00	0.00	0.00	PBHL (Righteous 6 Si



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Local Co-ordinate Reference:
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 MD Reference: KB = 25' @ 3423.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	1.00	359.53	4,100.0	0.9	0.0	-0.9	1.00	1.00	0.00
4,200.0	2.00	359.53	4,200.0	3.5	0.0	-3.5	1.00	1.00	0.00
4,300.0	3.00	359.53	4,299.9	7.9	-0.1	-7.9	1.00	1.00	0.00
4,400.0	4.00	359.53	4,399.7	14.0	-0.1	-14.0	1.00	1.00	0.00
4,500.0	5.00	359.53	4,499.4	21.8	-0.2	-21.8	1.00	1.00	0.00
4,532.8	5.33	359.53	4,532.1	24.8	-0.2	-24.8	1.00	1.00	0.00
4,600.0	5.33	359.53	4,598.9	31.0	-0.3	-31.0	0.00	0.00	0.00
4,700.0	5.33	359.53	4,698.5	40.3	-0.3	-40.3	0.00	0.00	0.00
4,800.0	5.33	359.53	4,798.1	49.6	-0.4	-49.6	0.00	0.00	0.00
4,900.0	5.33	359.53	4,897.6	58.9	-0.5	-58.9	0.00	0.00	0.00
5,000.0	5.33	359.53	4,997.2	68.1	-0.6	-68.1	0.00	0.00	0.00
5,100.0	5.33	359.53	5,096.8	77.4	-0.6	-77.4	0.00	0.00	0.00
5,200.0	5.33	359.53	5,196.3	86.7	-0.7	-86.7	0.00	0.00	0.00



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Survey Calculation Method:

Well #601H
KB = 25' @ 3423.0usft
KB = 25' @ 3423.0usft
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	5.33	359.53	5,295.9	96.0	-0.8	-96.0	0.00	0.00	0.00
5,400.0	5.33	359.53	5,395.5	105.3	-0.9	-105.3	0.00	0.00	0.00
5,500.0	5.33	359.53	5,495.1	114.6	-0.9	-114.6	0.00	0.00	0.00
5,600.0	5.33	359.53	5,594.6	123.9	-1.0	-123.9	0.00	0.00	0.00
5,700.0	5.33	359.53	5,694.2	133.1	-1.1	-133.1	0.00	0.00	0.00
5,800.0	5.33	359.53	5,793.8	142.4	-1.2	-142.4	0.00	0.00	0.00
5,900.0	5.33	359.53	5,893.3	151.7	-1.2	-151.7	0.00	0.00	0.00
6,000.0	5.33	359.53	5,992.9	161.0	-1.3	-161.0	0.00	0.00	0.00
6,100.0	5.33	359.53	6,092.5	170.3	-1.4	-170.3	0.00	0.00	0.00
6,200.0	5.33	359.53	6,192.0	179.6	-1.5	-179.6	0.00	0.00	0.00
6,300.0	5.33	359.53	6,291.6	188.9	-1.5	-188.9	0.00	0.00	0.00
6,400.0	5.33	359.53	6,391.2	198.1	-1.6	-198.1	0.00	0.00	0.00
6,500.0	5.33	359.53	6,490.7	207.4	-1.7	-207.4	0.00	0.00	0.00
6,600.0	5.33	359.53	6,590.3	216.7	-1.8	-216.7	0.00	0.00	0.00
6,700.0	5.33	359.53	6,689.9	226.0	-1.8	-226.0	0.00	0.00	0.00
6,800.0	5.33	359.53	6,789.4	235.3	-1.9	-235.3	0.00	0.00	0.00
6,900.0	5.33	359.53	6,889.0	244.6	-2.0	-244.6	0.00	0.00	0.00
7,000.0	5.33	359.53	6,988.6	253.9	-2.1	-253.9	0.00	0.00	0.00
7,100.0	5.33	359.53	7,088.1	263.1	-2.1	-263.2	0.00	0.00	0.00
7,200.0	5.33	359.53	7,187.7	272.4	-2.2	-272.4	0.00	0.00	0.00
7,300.0	5.33	359.53	7,287.3	281.7	-2.3	-281.7	0.00	0.00	0.00
7,400.0	5.33	359.53	7,386.8	291.0	-2.4	-291.0	0.00	0.00	0.00
7,500.0	5.33	359.53	7,486.4	300.3	-2.4	-300.3	0.00	0.00	0.00
7,600.0	5.33	359.53	7,586.0	309.6	-2.5	-309.6	0.00	0.00	0.00
7,700.0	5.33	359.53	7,685.5	318.9	-2.6	-318.9	0.00	0.00	0.00
7,800.0	5.33	359.53	7,785.1	328.1	-2.7	-328.2	0.00	0.00	0.00
7,900.0	5.33	359.53	7,884.7	337.4	-2.7	-337.4	0.00	0.00	0.00
8,000.0	5.33	359.53	7,984.3	346.7	-2.8	-346.7	0.00	0.00	0.00
8,100.0	5.33	359.53	8,083.8	356.0	-2.9	-356.0	0.00	0.00	0.00
8,200.0	5.33	359.53	8,183.4	365.3	-3.0	-365.3	0.00	0.00	0.00
8,300.0	5.33	359.53	8,283.0	374.6	-3.1	-374.6	0.00	0.00	0.00
8,400.0	5.33	359.53	8,382.5	383.9	-3.1	-383.9	0.00	0.00	0.00
8,500.0	5.33	359.53	8,482.1	393.1	-3.2	-393.2	0.00	0.00	0.00
8,600.0	5.33	359.53	8,581.7	402.4	-3.3	-402.4	0.00	0.00	0.00
8,700.0	5.33	359.53	8,681.2	411.7	-3.4	-411.7	0.00	0.00	0.00
8,800.0	5.33	359.53	8,780.8	421.0	-3.4	-421.0	0.00	0.00	0.00
8,900.0	5.33	359.53	8,880.4	430.3	-3.5	-430.3	0.00	0.00	0.00
9,000.0	5.33	359.53	8,979.9	439.6	-3.6	-439.6	0.00	0.00	0.00
9,100.0	5.33	359.53	9,079.5	448.9	-3.7	-448.9	0.00	0.00	0.00
9,200.0	5.33	359.53	9,179.1	458.2	-3.7	-458.2	0.00	0.00	0.00
9,300.0	5.33	359.53	9,278.6	467.4	-3.8	-467.5	0.00	0.00	0.00
9,400.0	5.33	359.53	9,378.2	476.7	-3.9	-476.7	0.00	0.00	0.00
9,500.0	5.33	359.53	9,477.8	486.0	-4.0	-486.0	0.00	0.00	0.00
9,600.0	5.33	359.53	9,577.3	495.3	-4.0	-495.3	0.00	0.00	0.00
9,700.0	5.33	359.53	9,676.9	504.6	-4.1	-504.6	0.00	0.00	0.00
9,800.0	5.33	359.53	9,776.5	513.9	-4.2	-513.9	0.00	0.00	0.00
9,900.0	5.33	359.53	9,876.0	523.2	-4.3	-523.2	0.00	0.00	0.00
10,000.0	5.33	359.53	9,975.6	532.4	-4.3	-532.5	0.00	0.00	0.00
10,100.0	5.33	359.53	10,075.2	541.7	-4.4	-541.7	0.00	0.00	0.00
10,200.0	5.33	359.53	10,174.7	551.0	-4.5	-551.0	0.00	0.00	0.00
10,300.0	5.33	359.53	10,274.3	560.3	-4.6	-560.3	0.00	0.00	0.00
10,400.0	5.33	359.53	10,373.9	569.6	-4.6	-569.6	0.00	0.00	0.00
10,500.0	5.33	359.53	10,473.4	578.9	-4.7	-578.9	0.00	0.00	0.00
10,600.0	5.33	359.53	10,573.0	588.2	-4.8	-588.2	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	5.33	359.53	10,672.6	597.4	-4.9	-597.5	0.00	0.00	0.00
10,800.0	5.33	359.53	10,772.2	606.7	-4.9	-606.7	0.00	0.00	0.00
10,816.1	5.33	359.53	10,788.2	608.2	-5.0	-608.2	0.00	0.00	0.00
10,825.0	4.26	359.51	10,797.0	609.0	-5.0	-609.0	12.00	-12.00	-0.22
10,850.0	1.26	359.29	10,822.0	610.2	-5.0	-610.2	12.00	-12.00	-0.92
10,875.0	1.74	179.85	10,847.0	610.1	-5.0	-610.1	12.00	1.90	-717.76
10,900.0	4.74	179.70	10,872.0	608.7	-5.0	-608.7	12.00	12.00	-0.60
10,925.0	7.74	179.66	10,896.8	605.9	-5.0	-606.0	12.00	12.00	-0.13
10,950.0	10.74	179.65	10,921.5	601.9	-4.9	-601.9	12.00	12.00	-0.06
10,975.0	13.74	179.64	10,945.9	596.6	-4.9	-596.6	12.00	12.00	-0.03
11,000.0	16.74	179.63	10,970.0	590.1	-4.9	-590.1	12.00	12.00	-0.02
11,025.0	19.74	179.63	10,993.8	582.2	-4.8	-582.3	12.00	12.00	-0.02
11,050.0	22.74	179.63	11,017.1	573.2	-4.7	-573.2	12.00	12.00	-0.01
11,075.0	25.74	179.62	11,039.9	562.9	-4.7	-562.9	12.00	12.00	-0.01
11,100.0	28.74	179.62	11,062.1	551.5	-4.6	-551.5	12.00	12.00	-0.01
11,125.0	31.74	179.62	11,083.7	538.9	-4.5	-538.9	12.00	12.00	-0.01
11,150.0	34.74	179.62	11,104.6	525.2	-4.4	-525.2	12.00	12.00	0.00
11,175.0	37.74	179.62	11,124.8	510.4	-4.3	-510.4	12.00	12.00	0.00
11,200.0	40.74	179.62	11,144.1	494.6	-4.2	-494.6	12.00	12.00	0.00
11,225.0	43.74	179.62	11,162.6	477.8	-4.1	-477.8	12.00	12.00	0.00
11,250.0	46.74	179.62	11,180.2	460.1	-4.0	-460.1	12.00	12.00	0.00
11,275.0	49.74	179.62	11,196.9	441.4	-3.9	-441.4	12.00	12.00	0.00
11,300.0	52.74	179.62	11,212.5	421.9	-3.7	-421.9	12.00	12.00	0.00
11,325.0	55.74	179.61	11,227.1	401.6	-3.6	-401.6	12.00	12.00	0.00
11,350.0	58.74	179.61	11,240.7	380.6	-3.5	-380.6	12.00	12.00	0.00
11,375.0	61.74	179.61	11,253.1	358.9	-3.3	-358.9	12.00	12.00	0.00
11,400.0	64.74	179.61	11,264.3	336.6	-3.2	-336.6	12.00	12.00	0.00
11,424.4	67.67	179.61	11,274.2	314.2	-3.0	-314.2	12.00	12.00	0.00
FTP (Righteous 6 State Com #601H)									
11,425.0	67.74	179.61	11,274.4	313.7	-3.0	-313.7	12.00	12.00	0.00
11,450.0	70.74	179.61	11,283.3	290.3	-2.9	-290.4	12.00	12.00	0.00
11,475.0	73.74	179.61	11,290.9	266.5	-2.7	-266.5	12.00	12.00	0.00
11,500.0	76.74	179.61	11,297.3	242.4	-2.5	-242.4	12.00	12.00	0.00
11,525.0	79.74	179.61	11,302.4	217.9	-2.4	-217.9	12.00	12.00	0.00
11,550.0	82.74	179.61	11,306.2	193.2	-2.2	-193.2	12.00	12.00	0.00
11,575.0	85.74	179.61	11,308.7	168.3	-2.0	-168.3	12.00	12.00	0.00
11,600.0	88.74	179.61	11,309.9	143.4	-1.9	-143.4	12.00	12.00	0.00
11,610.5	90.00	179.61	11,310.0	132.8	-1.8	-132.8	12.00	12.00	0.00
11,700.0	90.00	179.61	11,310.0	43.4	-1.2	-43.4	0.00	0.00	0.00
11,800.0	90.00	179.61	11,310.0	-56.6	-0.5	56.6	0.00	0.00	0.00
11,900.0	90.00	179.61	11,310.0	-156.6	0.2	156.6	0.00	0.00	0.00
12,000.0	90.00	179.61	11,310.0	-256.6	0.9	256.6	0.00	0.00	0.00
12,100.0	90.00	179.61	11,310.0	-356.6	1.5	356.6	0.00	0.00	0.00
12,200.0	90.00	179.61	11,310.0	-456.6	2.2	456.6	0.00	0.00	0.00
12,300.0	90.00	179.61	11,310.0	-556.6	2.9	556.6	0.00	0.00	0.00
12,400.0	90.00	179.61	11,310.0	-656.6	3.6	656.6	0.00	0.00	0.00
12,500.0	90.00	179.61	11,310.0	-756.6	4.3	756.6	0.00	0.00	0.00
12,600.0	90.00	179.61	11,310.0	-856.6	5.0	856.6	0.00	0.00	0.00
12,700.0	90.00	179.61	11,310.0	-956.6	5.6	956.6	0.00	0.00	0.00
12,800.0	90.00	179.61	11,310.0	-1,056.6	6.3	1,056.6	0.00	0.00	0.00
12,900.0	90.00	179.61	11,310.0	-1,156.6	7.0	1,156.6	0.00	0.00	0.00
13,000.0	90.00	179.61	11,310.0	-1,256.6	7.7	1,256.6	0.00	0.00	0.00
13,100.0	90.00	179.61	11,310.0	-1,356.6	8.4	1,356.6	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Righteous & State Com
Well: #601H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3423.0usft
MD Reference: KB = 25' @ 3423.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.0	90.00	179.61	11,310.0	-1,456.6	9.0	1,456.6	0.00	0.00	0.00
13,300.0	90.00	179.61	11,310.0	-1,556.6	9.7	1,556.6	0.00	0.00	0.00
13,400.0	90.00	179.61	11,310.0	-1,656.6	10.4	1,656.6	0.00	0.00	0.00
13,500.0	90.00	179.61	11,310.0	-1,756.6	11.1	1,756.6	0.00	0.00	0.00
13,600.0	90.00	179.61	11,310.0	-1,856.6	11.8	1,856.6	0.00	0.00	0.00
13,700.0	90.00	179.61	11,310.0	-1,956.6	12.4	1,956.6	0.00	0.00	0.00
13,800.0	90.00	179.61	11,310.0	-2,056.6	13.1	2,056.6	0.00	0.00	0.00
13,900.0	90.00	179.61	11,310.0	-2,156.6	13.8	2,156.6	0.00	0.00	0.00
14,000.0	90.00	179.61	11,310.0	-2,256.6	14.5	2,256.6	0.00	0.00	0.00
14,100.0	90.00	179.61	11,310.0	-2,356.6	15.2	2,356.6	0.00	0.00	0.00
14,200.0	90.00	179.61	11,310.0	-2,456.6	15.8	2,456.6	0.00	0.00	0.00
14,300.0	90.00	179.61	11,310.0	-2,556.6	16.5	2,556.6	0.00	0.00	0.00
14,400.0	90.00	179.61	11,310.0	-2,656.6	17.2	2,656.6	0.00	0.00	0.00
14,500.0	90.00	179.61	11,310.0	-2,756.6	17.9	2,756.6	0.00	0.00	0.00
14,600.0	90.00	179.61	11,310.0	-2,856.6	18.6	2,856.6	0.00	0.00	0.00
14,700.0	90.00	179.61	11,310.0	-2,956.6	19.2	2,956.6	0.00	0.00	0.00
14,800.0	90.00	179.61	11,310.0	-3,056.6	19.9	3,056.6	0.00	0.00	0.00
14,900.0	90.00	179.61	11,310.0	-3,156.6	20.6	3,156.6	0.00	0.00	0.00
15,000.0	90.00	179.61	11,310.0	-3,256.6	21.3	3,256.6	0.00	0.00	0.00
15,100.0	90.00	179.61	11,310.0	-3,356.6	22.0	3,356.6	0.00	0.00	0.00
15,200.0	90.00	179.61	11,310.0	-3,456.6	22.6	3,456.6	0.00	0.00	0.00
15,300.0	90.00	179.61	11,310.0	-3,556.6	23.3	3,556.6	0.00	0.00	0.00
15,400.0	90.00	179.61	11,310.0	-3,656.6	24.0	3,656.6	0.00	0.00	0.00
15,500.0	90.00	179.61	11,310.0	-3,756.6	24.7	3,756.6	0.00	0.00	0.00
15,600.0	90.00	179.61	11,310.0	-3,856.6	25.4	3,856.6	0.00	0.00	0.00
15,700.0	90.00	179.61	11,310.0	-3,956.6	26.1	3,956.6	0.00	0.00	0.00
15,800.0	90.00	179.61	11,310.0	-4,056.6	26.7	4,056.6	0.00	0.00	0.00
15,900.0	90.00	179.61	11,310.0	-4,156.5	27.4	4,156.6	0.00	0.00	0.00
16,000.0	90.00	179.61	11,310.0	-4,256.5	28.1	4,256.6	0.00	0.00	0.00
16,100.0	90.00	179.61	11,310.0	-4,356.5	28.8	4,356.6	0.00	0.00	0.00
16,200.0	90.00	179.61	11,310.0	-4,456.5	29.5	4,456.6	0.00	0.00	0.00
16,300.0	90.00	179.61	11,310.0	-4,556.5	30.1	4,556.6	0.00	0.00	0.00
16,400.0	90.00	179.61	11,310.0	-4,656.5	30.8	4,656.6	0.00	0.00	0.00
16,500.0	90.00	179.61	11,310.0	-4,756.5	31.5	4,756.6	0.00	0.00	0.00
16,600.0	90.00	179.61	11,310.0	-4,856.5	32.2	4,856.6	0.00	0.00	0.00
16,700.0	90.00	179.61	11,310.0	-4,956.5	32.9	4,956.6	0.00	0.00	0.00
16,800.0	90.00	179.61	11,310.0	-5,056.5	33.5	5,056.6	0.00	0.00	0.00
16,900.0	90.00	179.61	11,310.0	-5,156.5	34.2	5,156.6	0.00	0.00	0.00
17,000.0	90.00	179.61	11,310.0	-5,256.5	34.9	5,256.6	0.00	0.00	0.00
17,100.0	90.00	179.61	11,310.0	-5,356.5	35.6	5,356.6	0.00	0.00	0.00
17,200.0	90.00	179.61	11,310.0	-5,456.5	36.3	5,456.6	0.00	0.00	0.00
17,300.0	90.00	179.61	11,310.0	-5,556.5	36.9	5,556.6	0.00	0.00	0.00
17,400.0	90.00	179.61	11,310.0	-5,656.5	37.6	5,656.6	0.00	0.00	0.00
17,500.0	90.00	179.61	11,310.0	-5,756.5	38.3	5,756.6	0.00	0.00	0.00
17,600.0	90.00	179.61	11,310.0	-5,856.5	39.0	5,856.6	0.00	0.00	0.00
17,700.0	90.00	179.61	11,310.0	-5,956.5	39.7	5,956.6	0.00	0.00	0.00
17,800.0	90.00	179.61	11,310.0	-6,056.5	40.3	6,056.6	0.00	0.00	0.00
17,900.0	90.00	179.61	11,310.0	-6,156.5	41.0	6,156.6	0.00	0.00	0.00
18,000.0	90.00	179.61	11,310.0	-6,256.5	41.7	6,256.6	0.00	0.00	0.00
18,100.0	90.00	179.61	11,310.0	-6,356.5	42.4	6,356.6	0.00	0.00	0.00
18,200.0	90.00	179.61	11,310.0	-6,456.5	43.1	6,456.6	0.00	0.00	0.00
18,300.0	90.00	179.61	11,310.0	-6,556.5	43.7	6,556.6	0.00	0.00	0.00
18,400.0	90.00	179.61	11,310.0	-6,656.5	44.4	6,656.6	0.00	0.00	0.00
18,500.0	90.00	179.61	11,310.0	-6,756.5	45.1	6,756.6	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #601H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3423.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25' @ 3423.0usft
Site:	Righteous 6 State Com	North Reference:	Grid
Well:	#601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,600.0	90.00	179.61	11,310.0	-6,856.5	45.8	6,856.6	0.00	0.00	0.00
18,700.0	90.00	179.61	11,310.0	-6,956.5	46.5	6,956.6	0.00	0.00	0.00
18,777.5	90.00	179.61	11,310.0	-7,034.0	47.0	7,034.2	0.00	0.00	0.00
PBHL (Righteous 6 State Com #601H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (Righteous 6 State	0.00	0.00	11,310.0	330.0	-3.0	485,986.00	788,665.00	32° 19' 57.468 N	103° 23' 55.566 W
- plan misses target center by 39.1usft at 11424.4usft MD (11274.2 TVD, 314.2 N, -3.0 E)									
- Point									
PBHL (Righteous 6 State	0.00	0.00	11,310.0	-7,034.0	47.0	478,622.00	788,715.00	32° 18' 44.597 N	103° 23' 55.731 W
- plan hits target center									
- Point									

EOG RESOURCES, INC.
RIGHTEOUS 6 STATE COM #601H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator

- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

EOG RESOURCES, INC.
RIGHTEOUS 6 STATE COM #601H

- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC.
RIGHTEOUS 6 STATE COM #601H**

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department	(575) 396-3611
Rod Coffman	
Fire Department:	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals:	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174

EOG Resources, Inc.

EOG / Midland	Office (432) 686-3600
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Company Drilling Consultants:

David Dominique	Cell (985) 518-5839
Mike Vann	Cell (817) 980-5507

Drilling Engineer

Steve Munsell	Office (432) 686-3609
	Cell (432) 894-1256

Drilling Manager

Heath Work	Office (432) 686-6716
	Cell (903) 780-1179

Drilling Superintendent

Jason Fitzgerald	Office (432) 848-9029
	Cell (318) 347-3916

H&P Drilling

H&P Drilling	Office (432) 563-5757
H&P 651 Drilling Rig	Rig (903) 509-7131

Tool Pusher:

Johnathan Craig	Cell (817) 760-6374
Brad Garrett	

Safety

Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251

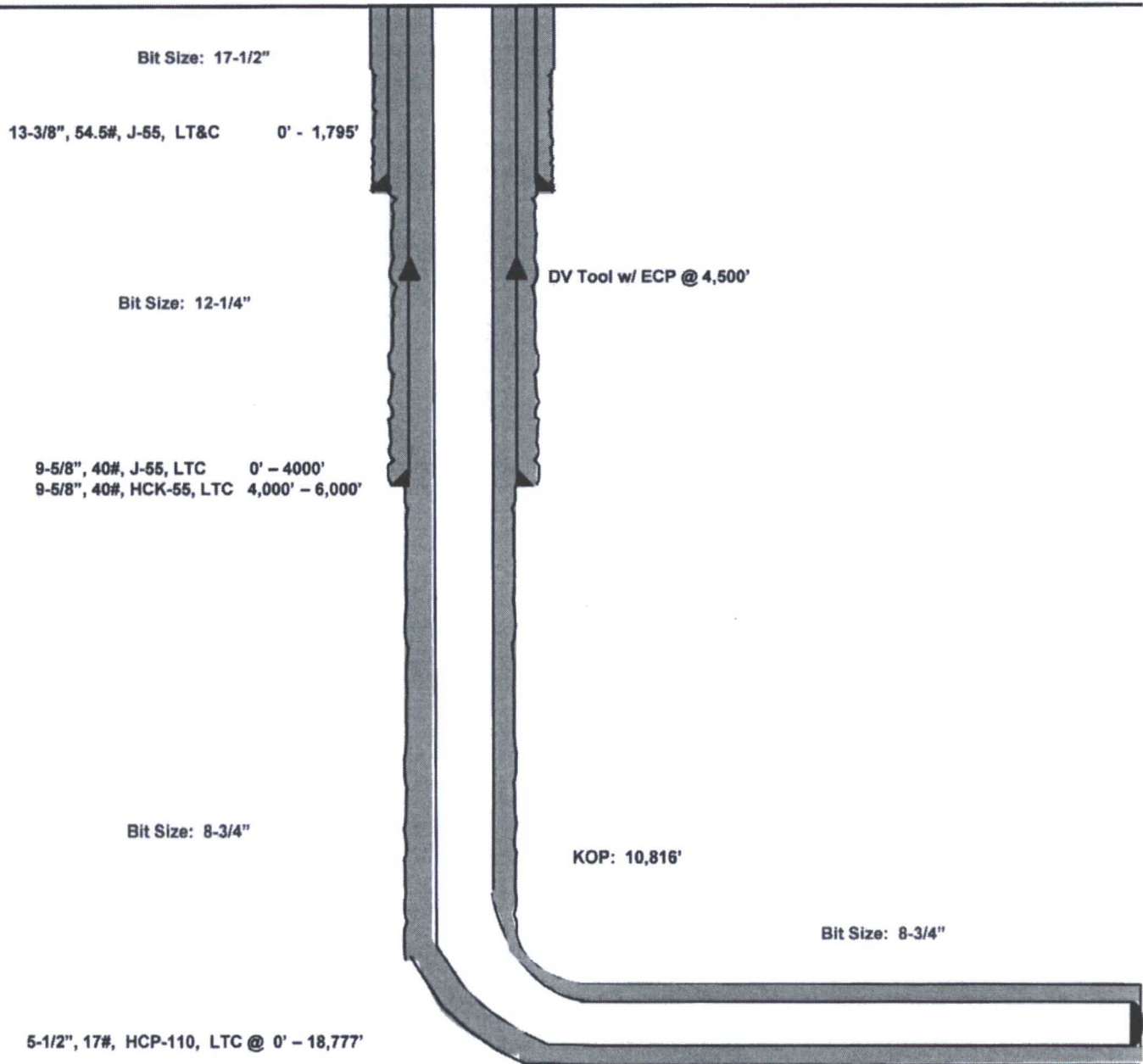
Righteous 6 State Com #601H

**Lea County, New Mexico
Proposed Wellbore**

**1982' FSL
330' FEL
Section 6
T-23-S, R-35-E**

API: 30-025-*****

**KB: 3,423'
GL: 3,398'**

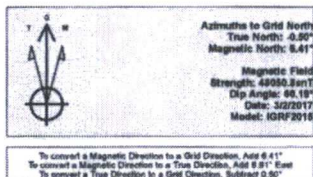


Lateral: 18,777' MD, 11,310' TVD

**BH Location: 230' FSL & 330' FEL
Section 7
T-23-S, R-35-E**



Lea County, NM (NAD 27 NME)
Righteous 6 State Com #601H
Plan #0.1



PROJECT DETAILS: Lea County, NM (NAD 27 NME)
 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

WELL DETAILS: #601H
 Ground Level: 3399.0
 KB = 20' @ 3423.0 nT
 Northing: 48986.50
 Easting: 78666.50
 Latitude: 32° 19' 54.282 N
 Longitude: 103° 23' 55.594 W

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diep	TFace	VSeal
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0
3	4532.6	5.33	359.53	4532.1	24.6	-0.2	1.00	359.53	-24.6
4	10816.1	5.33	359.53	10788.2	808.2	-5.0	0.00	0.00	-808.2
5	11610.5	90.00	179.61	11310.0	132.8	-1.8	12.00	-179.92	-132.8
6	18777.5	90.00	179.61	11310.0	-7034.0	47.0	0.00	0.00	7034.2

PBHL (Righteous 6 State Com #601H)

CASING DETAILS
 No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
P7P (Righteous 6 State Com #601H)	11310.0	500.0	-5.0	48986.50	78666.50
PBHL (Righteous 6 State Com #601H)	11310.0	-7034.0	47.0	478822.50	786716.00

