



Lea County, NM (NAD 83 NME)

Righteous 6 State Com #601Y

H&P 621

Plan #2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #601Y

Ground Level: 3398.0
KB = 25 @ 3423.5m (H&P 621)
Northing: 485716.00 Easting: 829537.00 Latitude: 32° 19' 54.881 N Longitude: 103° 23' 57.491 W

SECTION DETAILS

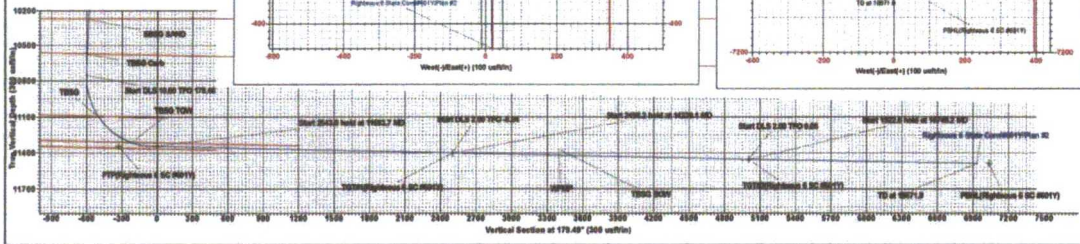
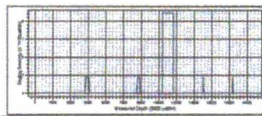
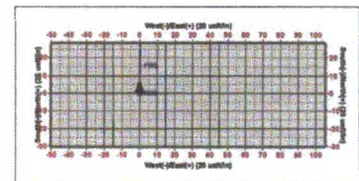
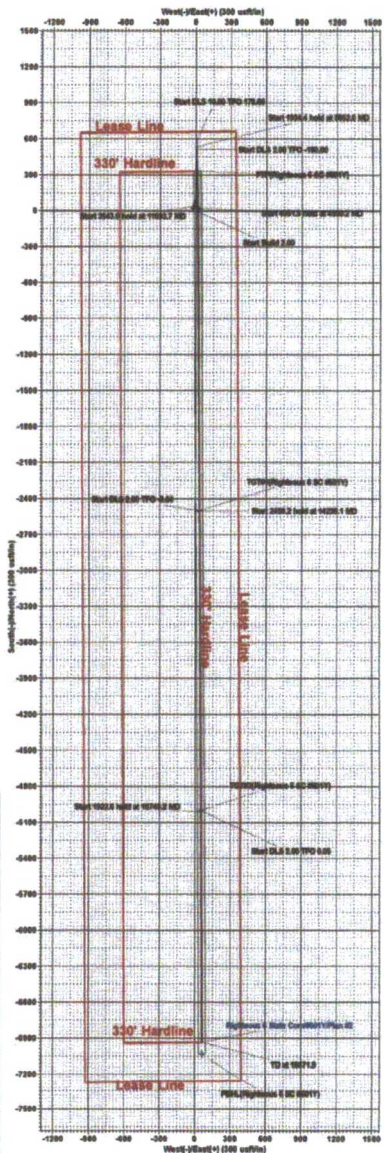
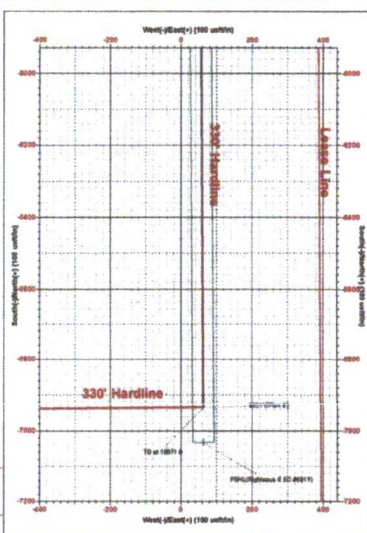
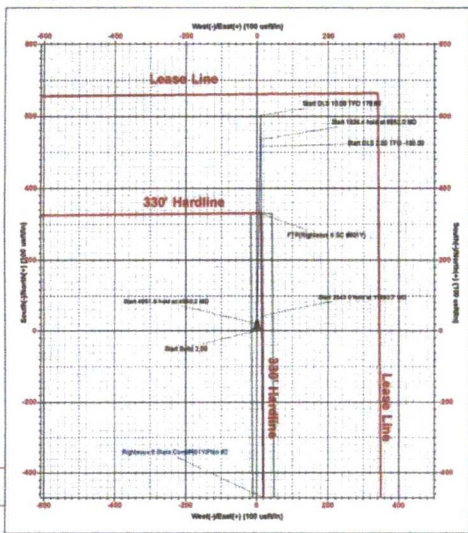
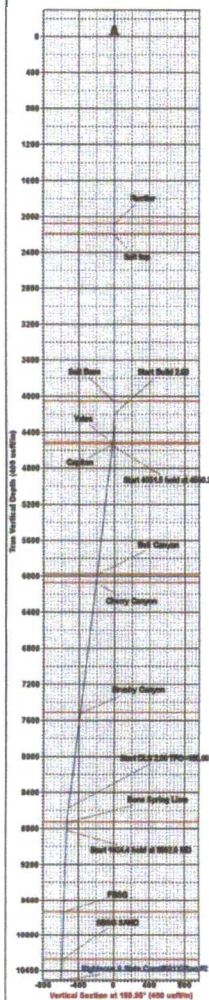
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	4200.0	0.00	0.00	4200.0	0.0	0.00	0.00	0.00	0.0	
3	4550.2	7.00	0.95	4549.3	21.4	0.4	2.00	0.95	-21.4	
4	8601.7	7.00	0.95	8570.6	515.4	8.6	0.00	0.00	-515.3	
5	8852.0	2.00	0.95	8820.0	535.0	8.9	2.00	-180.00	-534.9	
6	10786.3	2.00	0.95	10753.2	602.5	10.0	0.00	0.00	-602.4	
7	11693.7	88.74	179.81	11346.0	42.5	14.3	10.00	178.86	-42.4	
8	14238.7	88.74	179.81	11402.0	-2499.8	31.6	0.00	0.00	2500.0	TGT#1(Righteous 6 SC #601Y)
9	14239.1	88.79	179.80	11402.1	-2502.2	31.6	2.00	-0.04	2502.4	
10	16737.3	88.79	179.80	11455.0	-4999.8	48.9	0.00	0.00	5000.0	TGT#2(Righteous 6 SC #601Y)
11	16749.2	89.02	179.80	11455.2	-5011.7	49.0	2.00	0.05	5011.9	
12	18671.9	89.02	179.80	11488.0	-6934.0	62.3	0.00	0.00	6934.3	PBHL(Righteous 6 SC #601Y)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTF(Righteous 6 SC #601Y)	11346.0	336.0	12.0	485046.00	829668.00
TGT#1(Righteous 6 SC #601Y)	11402.0	-3489.8	31.6	485216.30	829686.00
TGT#2(Righteous 6 SC #601Y)	11455.0	-4999.8	48.9	485716.20	829685.91
PBHL(Righteous 6 SC #601Y)	11488.0	-7534.0	63.0	479682.00	829690.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Righteous 6 State Com

#601Y

OH

Plan: Plan #2

Standard Planning Report

02 May, 2017



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Righteous 6 State Com
Well: #601Y
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #601Y
TVD Reference: KB = 25 @ 3423.0usft (H&P 621)
MD Reference: KB = 25 @ 3423.0usft (H&P 621)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Righteous 6 State Com			
Site Position:		Northing:	485,716.00 usft	Latitude: 32° 19' 54.851 N
From:	Map	Easting:	829,837.00 usft	Longitude: 103° 23' 57.451 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.50 °

Well	#601Y			
Well Position	+N/-S	0.0 usft	Northing:	485,716.00 usft
	+E/-W	0.0 usft	Easting:	829,837.00 usft
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	5/2/2017	6.89	60.19	48,034

Design	Plan #2			
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	179.49

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	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,550.2	7.00	0.95	4,549.3	21.4	0.4	2.00	2.00	0.00	0.95	
8,601.7	7.00	0.95	8,570.6	515.4	8.6	0.00	0.00	0.00	0.00	
8,852.0	2.00	0.95	8,820.0	535.0	8.9	2.00	-2.00	0.00	-180.00	
10,786.3	2.00	0.95	10,753.2	602.5	10.0	0.00	0.00	0.00	0.00	
11,693.7	88.74	179.61	11,346.0	42.5	14.3	10.00	9.56	19.69	178.66	
14,236.7	88.74	179.61	11,402.0	-2,499.8	31.6	0.00	0.00	0.00	0.00	TGT#1(Righteous 6 S
14,239.1	88.79	179.60	11,402.1	-2,502.2	31.6	2.00	1.98	-0.28	-8.04	
16,737.3	88.79	179.60	11,455.0	-4,999.8	48.9	0.00	0.00	0.00	0.00	TGT#2(Righteous 6 S
16,749.2	89.02	179.60	11,455.2	-5,011.7	49.0	2.00	2.00	0.00	0.05	
18,671.9	89.02	179.60	11,488.0	-6,934.0	62.3	0.00	0.00	0.00	0.00	PBHL(Righteous 6 SC



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 KB = 25 @ 3423.0usft (H&P 621)
 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)
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
2,083.0	0.00	0.00	2,083.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,198.0	0.00	0.00	2,198.0	0.0	0.0	0.0	0.00	0.00	0.00
Salt top									
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
4,063.0	0.00	0.00	4,063.0	0.0	0.0	0.0	0.00	0.00	0.00
Salt Base									
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	2.00	0.95	4,300.0	1.7	0.0	-1.7	2.00	2.00	0.00
4,400.0	4.00	0.95	4,399.8	7.0	0.1	-7.0	2.00	2.00	0.00
4,500.0	6.00	0.95	4,499.5	15.7	0.3	-15.7	2.00	2.00	0.00
4,523.7	6.47	0.95	4,523.0	18.3	0.3	-18.3	2.00	2.00	0.00

Yates



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Righteous 6 State Com
Well: #801Y
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #801Y
KB = 25 @ 3423.0usft (H&P 621)
KB = 25 @ 3423.0usft (H&P 621)
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)
4,538.8	6.78	0.95	4,538.0	20.0	0.3	-20.0	2.00	2.00	0.00
Capitan									
4,550.2	7.00	0.95	4,549.3	21.4	0.4	-21.4	2.00	2.00	0.00
4,600.0	7.00	0.95	4,598.8	27.4	0.5	-27.4	0.00	0.00	0.00
4,700.0	7.00	0.95	4,698.0	39.6	0.7	-39.6	0.00	0.00	0.00
4,800.0	7.00	0.95	4,797.3	51.8	0.9	-51.8	0.00	0.00	0.00
4,900.0	7.00	0.95	4,896.5	64.0	1.1	-64.0	0.00	0.00	0.00
5,000.0	7.00	0.95	4,995.8	76.2	1.3	-76.2	0.00	0.00	0.00
5,100.0	7.00	0.95	5,095.0	88.4	1.5	-88.4	0.00	0.00	0.00
5,200.0	7.00	0.95	5,194.3	100.6	1.7	-100.6	0.00	0.00	0.00
5,300.0	7.00	0.95	5,293.5	112.8	1.9	-112.8	0.00	0.00	0.00
5,400.0	7.00	0.95	5,392.8	125.0	2.1	-125.0	0.00	0.00	0.00
5,500.0	7.00	0.95	5,492.0	137.2	2.3	-137.2	0.00	0.00	0.00
5,600.0	7.00	0.95	5,591.3	149.4	2.5	-149.3	0.00	0.00	0.00
5,700.0	7.00	0.95	5,690.5	161.6	2.7	-161.5	0.00	0.00	0.00
5,800.0	7.00	0.95	5,789.8	173.8	2.9	-173.7	0.00	0.00	0.00
5,900.0	7.00	0.95	5,889.1	186.0	3.1	-185.9	0.00	0.00	0.00
5,994.7	7.00	0.95	5,983.0	197.5	3.3	-197.5	0.00	0.00	0.00
Bell Canyon									
6,000.0	7.00	0.95	5,988.3	198.1	3.3	-198.1	0.00	0.00	0.00
6,085.3	7.00	0.95	6,073.0	208.5	3.5	-208.5	0.00	0.00	0.00
Cherry Canyon									
6,100.0	7.00	0.95	6,087.6	210.3	3.5	-210.3	0.00	0.00	0.00
6,200.0	7.00	0.95	6,186.8	222.5	3.7	-222.5	0.00	0.00	0.00
6,300.0	7.00	0.95	6,286.1	234.7	3.9	-234.7	0.00	0.00	0.00
6,400.0	7.00	0.95	6,385.3	246.9	4.1	-246.9	0.00	0.00	0.00
6,500.0	7.00	0.95	6,484.6	259.1	4.3	-259.1	0.00	0.00	0.00
6,600.0	7.00	0.95	6,583.8	271.3	4.5	-271.2	0.00	0.00	0.00
6,700.0	7.00	0.95	6,683.1	283.5	4.7	-283.4	0.00	0.00	0.00
6,800.0	7.00	0.95	6,782.3	295.7	4.9	-295.6	0.00	0.00	0.00
6,900.0	7.00	0.95	6,881.6	307.9	5.1	-307.8	0.00	0.00	0.00
7,000.0	7.00	0.95	6,980.8	320.1	5.3	-320.0	0.00	0.00	0.00
7,100.0	7.00	0.95	7,080.1	332.3	5.5	-332.2	0.00	0.00	0.00
7,200.0	7.00	0.95	7,179.4	344.5	5.7	-344.4	0.00	0.00	0.00
7,300.0	7.00	0.95	7,278.6	356.7	5.9	-356.6	0.00	0.00	0.00
7,400.0	7.00	0.95	7,377.9	368.8	6.1	-368.8	0.00	0.00	0.00
7,500.0	7.00	0.95	7,477.1	381.0	6.3	-381.0	0.00	0.00	0.00
7,541.2	7.00	0.95	7,518.0	386.1	6.4	-386.0	0.00	0.00	0.00
Brushy Canyon									
7,600.0	7.00	0.95	7,576.4	393.2	6.5	-393.2	0.00	0.00	0.00
7,700.0	7.00	0.95	7,675.6	405.4	6.7	-405.3	0.00	0.00	0.00
7,800.0	7.00	0.95	7,774.9	417.6	6.9	-417.5	0.00	0.00	0.00
7,900.0	7.00	0.95	7,874.1	429.8	7.1	-429.7	0.00	0.00	0.00
8,000.0	7.00	0.95	7,973.4	442.0	7.3	-441.9	0.00	0.00	0.00
8,100.0	7.00	0.95	8,072.6	454.2	7.5	-454.1	0.00	0.00	0.00
8,200.0	7.00	0.95	8,171.9	466.4	7.7	-466.3	0.00	0.00	0.00
8,300.0	7.00	0.95	8,271.1	478.6	7.9	-478.5	0.00	0.00	0.00
8,400.0	7.00	0.95	8,370.4	490.8	8.1	-490.7	0.00	0.00	0.00
8,500.0	7.00	0.95	8,469.7	503.0	8.3	-502.9	0.00	0.00	0.00
8,601.7	7.00	0.95	8,570.6	515.4	8.6	-515.3	0.00	0.00	0.00
8,700.0	5.04	0.95	8,668.3	525.7	8.7	-525.6	2.00	-2.00	0.00
8,764.8	3.74	0.95	8,733.0	530.6	8.8	-530.5	2.00	-2.00	0.00
Bone Spring Lime									



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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)
8,800.0	3.04	0.95	8,768.1	532.7	8.8	-532.6	2.00	-2.00	0.00
8,852.0	2.00	0.95	8,820.0	535.0	8.9	-534.9	2.00	-2.00	0.00
8,900.0	2.00	0.95	8,868.0	536.7	8.9	-536.6	0.00	0.00	0.00
9,000.0	2.00	0.95	8,968.0	540.2	9.0	-540.1	0.00	0.00	0.00
9,100.0	2.00	0.95	9,067.9	543.7	9.0	-543.6	0.00	0.00	0.00
9,200.0	2.00	0.95	9,167.8	547.1	9.1	-547.0	0.00	0.00	0.00
9,300.0	2.00	0.95	9,267.8	550.6	9.1	-550.5	0.00	0.00	0.00
9,400.0	2.00	0.95	9,367.7	554.1	9.2	-554.0	0.00	0.00	0.00
9,500.0	2.00	0.95	9,467.6	557.6	9.3	-557.5	0.00	0.00	0.00
9,600.0	2.00	0.95	9,567.6	561.1	9.3	-561.0	0.00	0.00	0.00
9,700.0	2.00	0.95	9,667.5	564.6	9.4	-564.5	0.00	0.00	0.00
9,780.5	2.00	0.95	9,748.0	567.4	9.4	-567.3	0.00	0.00	0.00
FBSG									
9,800.0	2.00	0.95	9,767.5	568.1	9.4	-568.0	0.00	0.00	0.00
9,900.0	2.00	0.95	9,867.4	571.6	9.5	-571.5	0.00	0.00	0.00
10,000.0	2.00	0.95	9,967.3	575.1	9.5	-575.0	0.00	0.00	0.00
10,100.0	2.00	0.95	10,067.3	578.6	9.6	-578.4	0.00	0.00	0.00
10,200.0	2.00	0.95	10,167.2	582.0	9.7	-581.9	0.00	0.00	0.00
10,300.0	2.00	0.95	10,267.2	585.5	9.7	-585.4	0.00	0.00	0.00
10,307.8	2.00	0.95	10,275.0	585.8	9.7	-585.7	0.00	0.00	0.00
SBSG SAND									
10,400.0	2.00	0.95	10,367.1	589.0	9.8	-588.9	0.00	0.00	0.00
10,500.0	2.00	0.95	10,467.0	592.5	9.8	-592.4	0.00	0.00	0.00
10,600.0	2.00	0.95	10,567.0	596.0	9.9	-595.9	0.00	0.00	0.00
10,609.4	2.00	0.95	10,576.3	596.3	9.9	-596.2	0.00	0.00	0.00
TBSG Carb									
10,700.0	2.00	0.95	10,666.9	599.5	10.0	-599.4	0.00	0.00	0.00
10,786.3	2.00	0.95	10,753.2	602.5	10.0	-602.4	0.00	0.00	0.00
10,800.0	0.63	3.83	10,766.9	602.8	10.0	-602.7	10.00	-9.99	21.11
10,850.0	4.37	179.00	10,816.8	601.2	10.1	-601.1	10.00	7.46	350.33
10,900.0	9.37	179.33	10,866.4	595.2	10.1	-595.1	10.00	10.00	0.66
10,950.0	14.37	179.43	10,915.4	584.9	10.3	-584.8	10.00	10.00	0.20
11,000.0	19.37	179.48	10,963.2	570.4	10.4	-570.3	10.00	10.00	0.10
11,050.0	24.37	179.51	11,009.6	551.8	10.6	-551.7	10.00	10.00	0.06
11,100.0	29.37	179.53	11,054.2	529.2	10.7	-529.1	10.00	10.00	0.04
11,150.0	34.37	179.54	11,096.6	502.8	11.0	-502.7	10.00	10.00	0.03
11,151.9	34.56	179.54	11,098.2	501.8	11.0	-501.6	10.00	10.00	0.03
TBSG									
11,200.0	39.37	179.55	11,136.6	472.9	11.2	-472.7	10.00	10.00	0.02
11,250.0	44.37	179.56	11,173.8	439.5	11.5	-439.4	10.00	10.00	0.02
11,300.0	49.37	179.57	11,208.0	403.0	11.7	-402.9	10.00	10.00	0.02
11,350.0	54.37	179.58	11,238.9	363.7	12.0	-363.6	10.00	10.00	0.01
11,400.0	59.37	179.58	11,266.2	321.8	12.3	-321.7	10.00	10.00	0.01
11,430.4	62.41	179.59	11,281.0	295.2	12.5	-295.1	10.00	10.00	0.01
FTP(Righteous 6 SC #601Y)									
11,450.0	64.37	179.59	11,289.8	277.8	12.6	-277.6	10.00	10.00	0.01
11,500.0	69.37	179.59	11,309.4	231.8	13.0	-231.7	10.00	10.00	0.01
11,512.6	70.62	179.59	11,313.7	220.0	13.1	-219.9	10.00	10.00	0.01
TBSG TOW									
11,550.0	74.37	179.60	11,325.0	184.3	13.3	-184.2	10.00	10.00	0.01
11,600.0	79.37	179.60	11,336.3	135.6	13.6	-135.5	10.00	10.00	0.01
11,650.0	84.37	179.61	11,343.4	86.1	14.0	-86.0	10.00	10.00	0.01
11,693.7	88.74	179.61	11,346.0	42.5	14.3	-42.4	10.00	10.00	0.01



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 Well: #601Y
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well #601Y
 TVD Reference: KB = 25 @ 3423.0usft (H&P 621)
 MD Reference: KB = 25 @ 3423.0usft (H&P 621)
 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)
11,700.0	88.74	179.61	11,346.1	36.2	14.3	-36.1	0.00	0.00	0.00
11,800.0	88.74	179.61	11,348.3	-63.7	15.0	63.9	0.00	0.00	0.00
11,900.0	88.74	179.61	11,350.6	-163.7	15.7	163.8	0.00	0.00	0.00
12,000.0	88.74	179.61	11,352.8	-263.7	16.4	263.8	0.00	0.00	0.00
12,100.0	88.74	179.61	11,355.0	-363.7	17.1	363.8	0.00	0.00	0.00
12,200.0	88.74	179.61	11,357.2	-463.6	17.7	463.8	0.00	0.00	0.00
12,300.0	88.74	179.61	11,359.4	-563.6	18.4	563.7	0.00	0.00	0.00
12,400.0	88.74	179.61	11,361.6	-663.6	19.1	663.7	0.00	0.00	0.00
12,500.0	88.74	179.61	11,363.8	-763.5	19.8	763.7	0.00	0.00	0.00
12,600.0	88.74	179.61	11,366.0	-863.5	20.5	863.7	0.00	0.00	0.00
12,700.0	88.74	179.61	11,368.2	-963.5	21.1	963.6	0.00	0.00	0.00
12,800.0	88.74	179.61	11,370.4	-1,063.5	21.8	1,063.6	0.00	0.00	0.00
12,900.0	88.74	179.61	11,372.6	-1,163.4	22.5	1,163.6	0.00	0.00	0.00
13,000.0	88.74	179.61	11,374.8	-1,263.4	23.2	1,263.6	0.00	0.00	0.00
13,100.0	88.74	179.61	11,377.0	-1,363.4	23.9	1,363.5	0.00	0.00	0.00
13,200.0	88.74	179.61	11,379.2	-1,463.4	24.5	1,463.5	0.00	0.00	0.00
13,300.0	88.74	179.61	11,381.4	-1,563.3	25.2	1,563.5	0.00	0.00	0.00
13,400.0	88.74	179.61	11,383.6	-1,663.3	25.9	1,663.5	0.00	0.00	0.00
13,500.0	88.74	179.61	11,385.8	-1,763.3	26.6	1,763.4	0.00	0.00	0.00
13,600.0	88.74	179.61	11,388.0	-1,863.3	27.3	1,863.4	0.00	0.00	0.00
13,700.0	88.74	179.61	11,390.2	-1,963.2	27.9	1,963.4	0.00	0.00	0.00
13,800.0	88.74	179.61	11,392.4	-2,063.2	28.6	2,063.4	0.00	0.00	0.00
13,900.0	88.74	179.61	11,394.6	-2,163.2	29.3	2,163.4	0.00	0.00	0.00
14,000.0	88.74	179.61	11,396.8	-2,263.1	30.0	2,263.3	0.00	0.00	0.00
14,100.0	88.74	179.61	11,399.0	-2,363.1	30.7	2,363.3	0.00	0.00	0.00
14,200.0	88.74	179.61	11,401.2	-2,463.1	31.3	2,463.3	0.00	0.00	0.00
14,236.7	88.74	179.61	11,402.0	-2,499.8	31.6	2,500.0	0.00	0.00	0.00
TGT#1(Righteous 6 SC #601Y)									
14,239.1	88.79	179.60	11,402.1	-2,502.2	31.6	2,502.4	2.00	1.98	-0.28
14,300.0	88.79	179.60	11,403.3	-2,563.1	32.0	2,563.3	0.00	0.00	0.00
14,400.0	88.79	179.60	11,405.5	-2,663.0	32.7	2,663.2	0.00	0.00	0.00
14,500.0	88.79	179.60	11,407.6	-2,763.0	33.4	2,763.2	0.00	0.00	0.00
14,600.0	88.79	179.60	11,409.7	-2,863.0	34.1	2,863.2	0.00	0.00	0.00
14,700.0	88.79	179.60	11,411.8	-2,963.0	34.8	2,963.2	0.00	0.00	0.00
14,800.0	88.79	179.60	11,413.9	-3,062.9	35.5	3,063.1	0.00	0.00	0.00
14,900.0	88.79	179.60	11,416.1	-3,162.9	36.2	3,163.1	0.00	0.00	0.00
15,000.0	88.79	179.60	11,418.2	-3,262.9	36.9	3,263.1	0.00	0.00	0.00
15,100.0	88.79	179.60	11,420.3	-3,362.9	37.6	3,363.1	0.00	0.00	0.00
15,200.0	88.79	179.60	11,422.4	-3,462.8	38.3	3,463.1	0.00	0.00	0.00
15,300.0	88.79	179.60	11,424.5	-3,562.8	39.0	3,563.0	0.00	0.00	0.00
15,400.0	88.79	179.60	11,426.7	-3,662.8	39.7	3,663.0	0.00	0.00	0.00
15,500.0	88.79	179.60	11,428.8	-3,762.8	40.3	3,763.0	0.00	0.00	0.00
15,600.0	88.79	179.60	11,430.9	-3,862.7	41.0	3,863.0	0.00	0.00	0.00
15,700.0	88.79	179.60	11,433.0	-3,962.7	41.7	3,962.9	0.00	0.00	0.00
15,800.0	88.79	179.60	11,435.1	-4,062.7	42.4	4,062.9	0.00	0.00	0.00
15,900.0	88.79	179.60	11,437.3	-4,162.7	43.1	4,162.9	0.00	0.00	0.00
16,000.0	88.79	179.60	11,439.4	-4,262.6	43.8	4,262.9	0.00	0.00	0.00
16,100.0	88.79	179.60	11,441.5	-4,362.6	44.5	4,362.8	0.00	0.00	0.00
16,200.0	88.79	179.60	11,443.6	-4,462.6	45.2	4,462.8	0.00	0.00	0.00
16,300.0	88.79	179.60	11,445.7	-4,562.6	45.9	4,562.8	0.00	0.00	0.00
16,400.0	88.79	179.60	11,447.9	-4,662.5	46.6	4,662.8	0.00	0.00	0.00
16,500.0	88.79	179.60	11,450.0	-4,762.5	47.3	4,762.8	0.00	0.00	0.00
16,600.0	88.79	179.60	11,452.1	-4,862.5	48.0	4,862.7	0.00	0.00	0.00
16,700.0	88.79	179.60	11,454.2	-4,962.5	48.7	4,962.7	0.00	0.00	0.00



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Well: #601Y
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #601Y
TVD Reference: KB = 25 @ 3423.0usft (H&P 621)
MD Reference: KB = 25 @ 3423.0usft (H&P 621)
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)
16,737.3	88.79	179.60	11,455.0	-4,999.8	48.9	5,000.0	0.00	0.00	0.00
TGT#2(Righteous 6 SC #601Y)									
16,749.2	89.02	179.60	11,455.2	-5,011.7	49.0	5,011.9	2.00	2.00	0.00
16,800.0	89.02	179.60	11,456.1	-5,062.5	49.3	5,062.7	0.00	0.00	0.00
16,900.0	89.02	179.60	11,457.8	-5,162.4	50.0	5,162.7	0.00	0.00	0.00
17,000.0	89.02	179.60	11,459.5	-5,262.4	50.7	5,262.7	0.00	0.00	0.00
17,100.0	89.02	179.60	11,461.2	-5,362.4	51.4	5,362.6	0.00	0.00	0.00
17,200.0	89.02	179.60	11,462.9	-5,462.4	52.1	5,462.6	0.00	0.00	0.00
17,300.0	89.02	179.60	11,464.6	-5,562.4	52.8	5,562.6	0.00	0.00	0.00
17,400.0	89.02	179.60	11,466.3	-5,662.4	53.5	5,662.6	0.00	0.00	0.00
17,500.0	89.02	179.60	11,468.0	-5,762.3	54.2	5,762.6	0.00	0.00	0.00
17,600.0	89.02	179.60	11,469.7	-5,862.3	54.9	5,862.6	0.00	0.00	0.00
17,700.0	89.02	179.60	11,471.4	-5,962.3	55.6	5,962.6	0.00	0.00	0.00
17,800.0	89.02	179.60	11,473.1	-6,062.3	56.3	6,062.5	0.00	0.00	0.00
17,900.0	89.02	179.60	11,474.8	-6,162.3	57.0	6,162.5	0.00	0.00	0.00
18,000.0	89.02	179.60	11,476.5	-6,262.2	57.7	6,262.5	0.00	0.00	0.00
18,100.0	89.02	179.60	11,478.3	-6,362.2	58.3	6,362.5	0.00	0.00	0.00
18,200.0	89.02	179.60	11,480.0	-6,462.2	59.0	6,462.5	0.00	0.00	0.00
18,300.0	89.02	179.60	11,481.7	-6,562.2	59.7	6,562.5	0.00	0.00	0.00
18,400.0	89.02	179.60	11,483.4	-6,662.2	60.4	6,662.5	0.00	0.00	0.00
18,500.0	89.02	179.60	11,485.1	-6,762.2	61.1	6,762.4	0.00	0.00	0.00
18,600.0	89.02	179.60	11,486.8	-6,862.1	61.8	6,862.4	0.00	0.00	0.00
18,671.9	89.02	179.60	11,488.0	-6,934.0	62.3	6,934.3	0.00	0.00	0.00
PBHL(Righteous 6 SC #601Y)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(Righteous 6 SC #601Y) - hit/miss target - Shape	0.00	0.00	11,346.0	330.0	12.0	486,046.00	829,849.00	32° 19' 57.916 N	103° 23' 57.278 W
- plan misses target center by 73.7usft at 11430.4usft MD (11281.0 TVD, 295.2 N, 12.5 E)									
- Point									
TGT#1(Righteous 6 SC #601Y) - plan hits target center - Point	0.00	0.00	11,402.0	-2,499.8	31.6	483,216.20	829,868.60	32° 19' 29.914 N	103° 23' 57.337 W
TGT#2(Righteous 6 SC #601Y) - plan hits target center - Point	0.00	0.00	11,455.0	-4,999.8	48.9	480,716.20	829,885.91	32° 19' 5.176 N	103° 23' 57.389 W
PBHL(Righteous 6 SC #601Y) - plan misses target center by 100.0usft at 18671.9usft MD (11488.0 TVD, -6934.0 N, 62.3 E) - Rectangle (sides W60.0 H0.0 D7,364.0)	90.00	179.61	11,488.0	-7,034.0	63.0	478,682.00	829,900.00	32° 18' 45.047 N	103° 23' 57.431 W



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,083.0	2,083.0	Rustler				
2,198.0	2,198.0	Salt top				
4,063.0	4,063.0	Salt Base				
4,523.7	4,523.0	Yates				
4,538.8	4,538.0	Capitan				
5,994.7	5,983.0	Bell Canyon				
6,085.3	6,073.0	Cherry Canyon				
7,541.2	7,518.0	Brushy Canyon				
8,764.8	8,733.0	Bone Spring Lime				
9,780.5	9,748.0	FBSG				
10,307.8	10,275.0	SBSG SAND				
10,609.4	10,576.3	TBSG Carb		-1.12		
11,151.9	11,098.2	TBSG		-1.12		
11,512.6	11,313.7	TBSG TOW		-1.12		