



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Colgrove 35 Fed Com

#706H

OH

Plan: Plan #.01

Standard Planning Report

14 July, 2016

HOBBS OCD
FEB 06 2017
RECEIVED

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Colgrove 35 Fed Com
Well: #706H
Wellbore: OH
Design: Plan #.01

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3352.0usft
MD Reference: KB = 25' @ 3352.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
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 Colgrove 35 Fed Com

Site Position:		Northing:	365,015.00 usft	Latitude:	32° 0' 4.048 N
From:	Map	Easting:	742,682.00 usft	Longitude:	103° 33' 1.713 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well #706H

Well Position	+N/-S	-36.0 usft	Northing:	364,979.00 usft	Latitude:	32° 0' 3.468 N
	+E/-W	3,104.0 usft	Easting:	745,786.00 usft	Longitude:	103° 32' 25.672 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,327.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/13/2016	7.02	59.87	47,905

Design Plan #.01

Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	2.04

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,803.8	3.04	129.89	4,803.7	-5.2	6.2	1.00	1.00	0.00	129.89	
11,981.8	3.04	129.89	11,971.6	-249.1	298.1	0.00	0.00	0.00	0.00	
12,748.2	90.00	359.55	12,465.0	228.2	314.3	12.00	11.35	-17.01	-130.30	
19,788.2	90.00	359.55	12,465.0	7,268.0	259.0	0.00	0.00	0.00	0.00	PBHL (CG 35 Fed Co)

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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)
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	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	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	129.89	4,600.0	-0.6	0.7	-0.5	1.00	1.00	0.00
4,700.0	2.00	129.89	4,700.0	-2.2	2.7	-2.1	1.00	1.00	0.00
4,803.8	3.04	129.89	4,803.7	-5.2	6.2	-4.9	1.00	1.00	0.00
4,900.0	3.04	129.89	4,899.7	-8.4	10.1	-8.1	0.00	0.00	0.00
5,000.0	3.04	129.89	4,999.6	-11.8	14.2	-11.3	0.00	0.00	0.00
5,100.0	3.04	129.89	5,099.4	-15.2	18.2	-14.6	0.00	0.00	0.00
5,200.0	3.04	129.89	5,199.3	-18.6	22.3	-17.8	0.00	0.00	0.00
5,300.0	3.04	129.89	5,299.2	-22.0	26.4	-21.1	0.00	0.00	0.00

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5,400.0	3.04	129.89	5,399.0	-25.4	30.4	-24.3	0.00	0.00	0.00
5,500.0	3.04	129.89	5,498.9	-28.8	34.5	-27.6	0.00	0.00	0.00
5,600.0	3.04	129.89	5,598.7	-32.2	38.6	-30.8	0.00	0.00	0.00
5,700.0	3.04	129.89	5,698.6	-35.6	42.6	-34.1	0.00	0.00	0.00
5,800.0	3.04	129.89	5,798.5	-39.0	46.7	-37.3	0.00	0.00	0.00
5,900.0	3.04	129.89	5,898.3	-42.4	50.8	-40.6	0.00	0.00	0.00
6,000.0	3.04	129.89	5,998.2	-45.8	54.8	-43.8	0.00	0.00	0.00
6,100.0	3.04	129.89	6,098.0	-49.2	58.9	-47.1	0.00	0.00	0.00
6,200.0	3.04	129.89	6,197.9	-52.6	63.0	-50.3	0.00	0.00	0.00
6,300.0	3.04	129.89	6,297.8	-56.0	67.0	-53.6	0.00	0.00	0.00
6,400.0	3.04	129.89	6,397.6	-59.4	71.1	-56.8	0.00	0.00	0.00
6,500.0	3.04	129.89	6,497.5	-62.8	75.2	-60.1	0.00	0.00	0.00
6,600.0	3.04	129.89	6,597.3	-66.2	79.2	-63.3	0.00	0.00	0.00
6,700.0	3.04	129.89	6,697.2	-69.6	83.3	-66.6	0.00	0.00	0.00
6,800.0	3.04	129.89	6,797.1	-73.0	87.4	-69.8	0.00	0.00	0.00
6,900.0	3.04	129.89	6,896.9	-76.4	91.4	-73.1	0.00	0.00	0.00
7,000.0	3.04	129.89	6,996.8	-79.8	95.5	-76.4	0.00	0.00	0.00
7,100.0	3.04	129.89	7,096.6	-83.2	99.6	-79.6	0.00	0.00	0.00
7,200.0	3.04	129.89	7,196.5	-86.6	103.6	-82.9	0.00	0.00	0.00
7,300.0	3.04	129.89	7,296.3	-90.0	107.7	-86.1	0.00	0.00	0.00
7,400.0	3.04	129.89	7,396.2	-93.4	111.8	-89.4	0.00	0.00	0.00
7,500.0	3.04	129.89	7,496.1	-96.8	115.8	-92.6	0.00	0.00	0.00
7,600.0	3.04	129.89	7,595.9	-100.2	119.9	-95.9	0.00	0.00	0.00
7,700.0	3.04	129.89	7,695.8	-103.6	124.0	-99.1	0.00	0.00	0.00
7,800.0	3.04	129.89	7,795.6	-107.0	128.0	-102.4	0.00	0.00	0.00
7,900.0	3.04	129.89	7,895.5	-110.4	132.1	-105.6	0.00	0.00	0.00
8,000.0	3.04	129.89	7,995.4	-113.8	136.2	-108.9	0.00	0.00	0.00
8,100.0	3.04	129.89	8,095.2	-117.2	140.2	-112.1	0.00	0.00	0.00
8,200.0	3.04	129.89	8,195.1	-120.6	144.3	-115.4	0.00	0.00	0.00
8,300.0	3.04	129.89	8,294.9	-124.0	148.4	-118.6	0.00	0.00	0.00
8,400.0	3.04	129.89	8,394.8	-127.4	152.4	-121.9	0.00	0.00	0.00
8,500.0	3.04	129.89	8,494.7	-130.8	156.5	-125.1	0.00	0.00	0.00
8,600.0	3.04	129.89	8,594.5	-134.2	160.6	-128.4	0.00	0.00	0.00
8,700.0	3.04	129.89	8,694.4	-137.6	164.6	-131.6	0.00	0.00	0.00
8,800.0	3.04	129.89	8,794.2	-141.0	168.7	-134.9	0.00	0.00	0.00
8,900.0	3.04	129.89	8,894.1	-144.4	172.8	-138.1	0.00	0.00	0.00
9,000.0	3.04	129.89	8,994.0	-147.8	176.8	-141.4	0.00	0.00	0.00
9,100.0	3.04	129.89	9,093.8	-151.2	180.9	-144.6	0.00	0.00	0.00
9,200.0	3.04	129.89	9,193.7	-154.6	185.0	-147.9	0.00	0.00	0.00
9,300.0	3.04	129.89	9,293.5	-158.0	189.0	-151.1	0.00	0.00	0.00
9,400.0	3.04	129.89	9,393.4	-161.4	193.1	-154.4	0.00	0.00	0.00
9,500.0	3.04	129.89	9,493.3	-164.8	197.2	-157.6	0.00	0.00	0.00
9,600.0	3.04	129.89	9,593.1	-168.2	201.2	-160.9	0.00	0.00	0.00
9,700.0	3.04	129.89	9,693.0	-171.6	205.3	-164.1	0.00	0.00	0.00
9,800.0	3.04	129.89	9,792.8	-175.0	209.4	-167.4	0.00	0.00	0.00
9,900.0	3.04	129.89	9,892.7	-178.4	213.4	-170.6	0.00	0.00	0.00
10,000.0	3.04	129.89	9,992.6	-181.8	217.5	-173.9	0.00	0.00	0.00
10,100.0	3.04	129.89	10,092.4	-185.2	221.6	-177.1	0.00	0.00	0.00
10,200.0	3.04	129.89	10,192.3	-188.6	225.6	-180.4	0.00	0.00	0.00
10,300.0	3.04	129.89	10,292.1	-192.0	229.7	-183.7	0.00	0.00	0.00
10,400.0	3.04	129.89	10,392.0	-195.4	233.8	-186.9	0.00	0.00	0.00
10,500.0	3.04	129.89	10,491.9	-198.7	237.8	-190.2	0.00	0.00	0.00
10,600.0	3.04	129.89	10,591.7	-202.1	241.9	-193.4	0.00	0.00	0.00
10,700.0	3.04	129.89	10,691.6	-205.5	246.0	-196.7	0.00	0.00	0.00

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10,800.0	3.04	129.89	10,791.4	-208.9	250.0	-199.9	0.00	0.00	0.00
10,900.0	3.04	129.89	10,891.3	-212.3	254.1	-203.2	0.00	0.00	0.00
11,000.0	3.04	129.89	10,991.1	-215.7	258.2	-206.4	0.00	0.00	0.00
11,100.0	3.04	129.89	11,091.0	-219.1	262.2	-209.7	0.00	0.00	0.00
11,200.0	3.04	129.89	11,190.9	-222.5	266.3	-212.9	0.00	0.00	0.00
11,300.0	3.04	129.89	11,290.7	-225.9	270.4	-216.2	0.00	0.00	0.00
11,400.0	3.04	129.89	11,390.6	-229.3	274.4	-219.4	0.00	0.00	0.00
11,500.0	3.04	129.89	11,490.4	-232.7	278.5	-222.7	0.00	0.00	0.00
11,600.0	3.04	129.89	11,590.3	-236.1	282.6	-225.9	0.00	0.00	0.00
11,700.0	3.04	129.89	11,690.2	-239.5	286.6	-229.2	0.00	0.00	0.00
11,800.0	3.04	129.89	11,790.0	-242.9	290.7	-232.4	0.00	0.00	0.00
11,900.0	3.04	129.89	11,889.9	-246.3	294.8	-235.7	0.00	0.00	0.00
11,981.8	3.04	129.89	11,971.6	-249.1	298.1	-238.3	0.00	0.00	0.00
12,000.0	2.33	84.14	11,989.8	-249.4	298.8	-238.6	12.00	-3.90	-251.22
12,025.0	3.97	35.25	12,014.7	-248.6	299.8	-237.8	12.00	6.55	-195.55
12,050.0	6.64	19.90	12,039.6	-246.6	300.8	-235.7	12.00	10.68	-61.41
12,075.0	9.50	13.53	12,064.4	-243.2	301.8	-232.3	12.00	11.47	-25.47
12,100.0	12.43	10.12	12,088.9	-238.5	302.7	-227.6	12.00	11.72	-13.65
12,125.0	15.39	8.00	12,113.2	-232.6	303.7	-221.6	12.00	11.83	-8.49
12,150.0	18.36	6.55	12,137.1	-225.4	304.6	-214.4	12.00	11.88	-5.80
12,175.0	21.34	5.49	12,160.6	-217.0	305.5	-205.9	12.00	11.91	-4.23
12,200.0	24.32	4.68	12,183.6	-207.3	306.3	-196.3	12.00	11.93	-3.23
12,225.0	27.31	4.04	12,206.1	-196.4	307.2	-185.4	12.00	11.95	-2.57
12,250.0	30.30	3.52	12,228.0	-184.4	307.9	-173.3	12.00	11.96	-2.09
12,275.0	33.29	3.08	12,249.3	-171.3	308.7	-160.2	12.00	11.96	-1.75
12,300.0	36.28	2.71	12,269.8	-157.0	309.4	-145.9	12.00	11.97	-1.49
12,325.0	39.28	2.39	12,289.6	-141.7	310.1	-130.6	12.00	11.97	-1.29
12,350.0	42.27	2.10	12,308.5	-125.4	310.7	-114.3	12.00	11.98	-1.14
12,375.0	45.27	1.85	12,326.6	-108.1	311.3	-97.0	12.00	11.98	-1.01
12,400.0	48.26	1.62	12,343.7	-89.9	311.9	-78.8	12.00	11.98	-0.91
12,425.0	51.26	1.41	12,359.8	-70.9	312.4	-59.7	12.00	11.98	-0.83
12,450.0	54.25	1.22	12,375.0	-51.0	312.8	-39.8	12.00	11.98	-0.77
12,475.0	57.25	1.04	12,389.0	-30.3	313.2	-19.1	12.00	11.99	-0.71
12,500.0	60.25	0.88	12,402.0	-8.9	313.6	2.2	12.00	11.99	-0.66
12,525.0	63.24	0.72	12,413.8	13.1	313.9	24.2	12.00	11.99	-0.63
12,550.0	66.24	0.57	12,424.5	35.7	314.2	46.8	12.00	11.99	-0.59
12,561.0	67.56	0.51	12,428.8	45.8	314.3	57.0	12.00	11.99	-0.57
FTP (CG 35 Fed Com 706H)									
12,575.0	69.24	0.43	12,434.0	58.8	314.4	70.0	12.00	11.99	-0.56
12,600.0	72.23	0.29	12,442.2	82.4	314.5	93.6	12.00	11.99	-0.54
12,625.0	75.23	0.16	12,449.2	106.4	314.6	117.5	12.00	11.99	-0.53
12,650.0	78.23	0.03	12,455.0	130.7	314.7	141.9	12.00	11.99	-0.51
12,675.0	81.23	359.91	12,459.4	155.3	314.6	166.4	12.00	11.99	-0.50
12,700.0	84.22	359.78	12,462.6	180.1	314.6	191.2	12.00	11.99	-0.49
12,725.0	87.22	359.66	12,464.4	205.1	314.5	216.1	12.00	11.99	-0.49
12,748.2	90.00	359.55	12,465.0	228.2	314.3	239.3	12.00	11.99	-0.49
12,800.0	90.00	359.55	12,465.0	280.0	313.9	291.0	0.00	0.00	0.00
12,900.0	90.00	359.55	12,465.0	380.0	313.1	390.9	0.00	0.00	0.00
13,000.0	90.00	359.55	12,465.0	480.0	312.3	490.9	0.00	0.00	0.00
13,100.0	90.00	359.55	12,465.0	580.0	311.5	590.8	0.00	0.00	0.00
13,200.0	90.00	359.55	12,465.0	680.0	310.7	690.7	0.00	0.00	0.00
13,300.0	90.00	359.55	12,465.0	780.0	310.0	790.6	0.00	0.00	0.00
13,400.0	90.00	359.55	12,465.0	880.0	309.2	890.5	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Colgrove 35 Fed Com
Well: #706H
Wellbore: OH
Design: Plan #.01

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3352.0usft
MD Reference: KB = 25' @ 3352.0usft
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)
13,500.0	90.00	359.55	12,465.0	980.0	308.4	990.4	0.00	0.00	0.00
13,600.0	90.00	359.55	12,465.0	1,080.0	307.6	1,090.3	0.00	0.00	0.00
13,700.0	90.00	359.55	12,465.0	1,180.0	306.8	1,190.2	0.00	0.00	0.00
13,800.0	90.00	359.55	12,465.0	1,280.0	306.0	1,290.1	0.00	0.00	0.00
13,900.0	90.00	359.55	12,465.0	1,380.0	305.2	1,390.0	0.00	0.00	0.00
14,000.0	90.00	359.55	12,465.0	1,480.0	304.5	1,489.9	0.00	0.00	0.00
14,100.0	90.00	359.55	12,465.0	1,580.0	303.7	1,589.8	0.00	0.00	0.00
14,200.0	90.00	359.55	12,465.0	1,680.0	302.9	1,689.7	0.00	0.00	0.00
14,300.0	90.00	359.55	12,465.0	1,780.0	302.1	1,789.6	0.00	0.00	0.00
14,400.0	90.00	359.55	12,465.0	1,880.0	301.3	1,889.5	0.00	0.00	0.00
14,500.0	90.00	359.55	12,465.0	1,980.0	300.5	1,989.4	0.00	0.00	0.00
14,600.0	90.00	359.55	12,465.0	2,080.0	299.7	2,089.3	0.00	0.00	0.00
14,700.0	90.00	359.55	12,465.0	2,180.0	299.0	2,189.2	0.00	0.00	0.00
14,800.0	90.00	359.55	12,465.0	2,280.0	298.2	2,289.2	0.00	0.00	0.00
14,900.0	90.00	359.55	12,465.0	2,380.0	297.4	2,389.1	0.00	0.00	0.00
15,000.0	90.00	359.55	12,465.0	2,480.0	296.6	2,489.0	0.00	0.00	0.00
15,100.0	90.00	359.55	12,465.0	2,580.0	295.8	2,588.9	0.00	0.00	0.00
15,200.0	90.00	359.55	12,465.0	2,680.0	295.0	2,688.8	0.00	0.00	0.00
15,300.0	90.00	359.55	12,465.0	2,780.0	294.2	2,788.7	0.00	0.00	0.00
15,400.0	90.00	359.55	12,465.0	2,880.0	293.5	2,888.6	0.00	0.00	0.00
15,500.0	90.00	359.55	12,465.0	2,980.0	292.7	2,988.5	0.00	0.00	0.00
15,600.0	90.00	359.55	12,465.0	3,080.0	291.9	3,088.4	0.00	0.00	0.00
15,700.0	90.00	359.55	12,465.0	3,180.0	291.1	3,188.3	0.00	0.00	0.00
15,800.0	90.00	359.55	12,465.0	3,280.0	290.3	3,288.2	0.00	0.00	0.00
15,900.0	90.00	359.55	12,465.0	3,379.9	289.5	3,388.1	0.00	0.00	0.00
16,000.0	90.00	359.55	12,465.0	3,479.9	288.8	3,488.0	0.00	0.00	0.00
16,100.0	90.00	359.55	12,465.0	3,579.9	288.0	3,587.9	0.00	0.00	0.00
16,200.0	90.00	359.55	12,465.0	3,679.9	287.2	3,687.8	0.00	0.00	0.00
16,300.0	90.00	359.55	12,465.0	3,779.9	286.4	3,787.7	0.00	0.00	0.00
16,400.0	90.00	359.55	12,465.0	3,879.9	285.6	3,887.6	0.00	0.00	0.00
16,500.0	90.00	359.55	12,465.0	3,979.9	284.8	3,987.5	0.00	0.00	0.00
16,600.0	90.00	359.55	12,465.0	4,079.9	284.0	4,087.5	0.00	0.00	0.00
16,700.0	90.00	359.55	12,465.0	4,179.9	283.3	4,187.4	0.00	0.00	0.00
16,800.0	90.00	359.55	12,465.0	4,279.9	282.5	4,287.3	0.00	0.00	0.00
16,900.0	90.00	359.55	12,465.0	4,379.9	281.7	4,387.2	0.00	0.00	0.00
17,000.0	90.00	359.55	12,465.0	4,479.9	280.9	4,487.1	0.00	0.00	0.00
17,100.0	90.00	359.55	12,465.0	4,579.9	280.1	4,587.0	0.00	0.00	0.00
17,200.0	90.00	359.55	12,465.0	4,679.9	279.3	4,686.9	0.00	0.00	0.00
17,300.0	90.00	359.55	12,465.0	4,779.9	278.5	4,786.8	0.00	0.00	0.00
17,400.0	90.00	359.55	12,465.0	4,879.9	277.8	4,886.7	0.00	0.00	0.00
17,500.0	90.00	359.55	12,465.0	4,979.9	277.0	4,986.6	0.00	0.00	0.00
17,600.0	90.00	359.55	12,465.0	5,079.9	276.2	5,086.5	0.00	0.00	0.00
17,700.0	90.00	359.55	12,465.0	5,179.9	275.4	5,186.4	0.00	0.00	0.00
17,800.0	90.00	359.55	12,465.0	5,279.9	274.6	5,286.3	0.00	0.00	0.00
17,900.0	90.00	359.55	12,465.0	5,379.9	273.8	5,386.2	0.00	0.00	0.00
18,000.0	90.00	359.55	12,465.0	5,479.9	273.0	5,486.1	0.00	0.00	0.00
18,100.0	90.00	359.55	12,465.0	5,579.9	272.3	5,586.0	0.00	0.00	0.00
18,200.0	90.00	359.55	12,465.0	5,679.9	271.5	5,685.9	0.00	0.00	0.00
18,300.0	90.00	359.55	12,465.0	5,779.9	270.7	5,785.8	0.00	0.00	0.00
18,400.0	90.00	359.55	12,465.0	5,879.9	269.9	5,885.8	0.00	0.00	0.00
18,500.0	90.00	359.55	12,465.0	5,979.9	269.1	5,985.7	0.00	0.00	0.00
18,600.0	90.00	359.55	12,465.0	6,079.9	268.3	6,085.6	0.00	0.00	0.00
18,700.0	90.00	359.55	12,465.0	6,179.9	267.5	6,185.5	0.00	0.00	0.00
18,800.0	90.00	359.55	12,465.0	6,279.9	266.8	6,285.4	0.00	0.00	0.00

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 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)
18,900.0	90.00	359.55	12,465.0	6,379.9	266.0	6,385.3	0.00	0.00	0.00
19,000.0	90.00	359.55	12,465.0	6,479.9	265.2	6,485.2	0.00	0.00	0.00
19,100.0	90.00	359.55	12,465.0	6,579.8	264.4	6,585.1	0.00	0.00	0.00
19,200.0	90.00	359.55	12,465.0	6,679.8	263.6	6,685.0	0.00	0.00	0.00
19,300.0	90.00	359.55	12,465.0	6,779.8	262.8	6,784.9	0.00	0.00	0.00
19,400.0	90.00	359.55	12,465.0	6,879.8	262.0	6,884.8	0.00	0.00	0.00
19,500.0	90.00	359.55	12,465.0	6,979.8	261.3	6,984.7	0.00	0.00	0.00
19,600.0	90.00	359.55	12,465.0	7,079.8	260.5	7,084.6	0.00	0.00	0.00
19,700.0	90.00	359.55	12,465.0	7,179.8	259.7	7,184.5	0.00	0.00	0.00
19,788.2	90.00	359.55	12,465.0	7,268.0	259.0	7,272.6	0.00	0.00	0.00

PBHL (CG 35 Fed Com 706H)

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									
PBHL (CG 35 Fed Com	0.00	0.00	12,465.0	7,268.0	259.0	372,247.00	746,045.00	32° 1' 15.371 N	103° 32' 22.045 W
- plan hits target center									
- Point									
FTP (CG 35 Fed Com 71	0.00	0.00	12,465.0	31.0	316.0	365,010.00	746,102.00	32° 0' 3.751 N	103° 32' 22.000 W
- plan misses target center by 39.1usft at 12561.0usft MD (12428.8 TVD, 45.8 N, 314.3 E)									
- Point									