



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Colgrove 35 Fed Com

#704H

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: #704H
Wellbore: OH
Design: Plan #.01

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3345.0usft
MD Reference: KB = 25' @ 3345.0usft
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
From:	Map	Easting:	742,682.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 4.048 N
		Longitude:	103° 33' 1.713 W
		Grid Convergence:	0.41 °

Well	#704H		
Well Position	+N/-S	-96.0 usft	Northing:
	+E/-W	1,786.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 0' 2.969 N
		Longitude:	103° 32' 40.982 W
		Ground Level:	3,320.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	7/13/2016	(°)
			7.03
			Dip Angle
			(°)
			59.87
			Field Strength
			(nT)
			47,904

Design	Plan #.01		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			2.01

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	
4,782.3	2.82	123.23	4,782.2	-3.8	5.8	1.00	1.00	0.00	123.23	
11,983.7	2.82	123.23	11,974.9	-198.2	302.5	0.00	0.00	0.00	0.00	
12,746.8	90.00	359.50	12,465.0	279.3	318.4	12.00	11.42	-16.21	-123.70	
19,786.8	90.00	359.50	12,465.0	7,319.0	257.0	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	123.23	4,600.0	-0.5	0.7	-0.5	1.00	1.00	0.00
4,700.0	2.00	123.23	4,700.0	-1.9	2.9	-1.8	1.00	1.00	0.00
4,782.3	2.82	123.23	4,782.2	-3.8	5.8	-3.6	1.00	1.00	0.00
4,800.0	2.82	123.23	4,799.9	-4.3	6.5	-4.1	0.00	0.00	0.00
4,900.0	2.82	123.23	4,899.7	-7.0	10.7	-6.6	0.00	0.00	0.00
5,000.0	2.82	123.23	4,999.6	-9.7	14.8	-9.2	0.00	0.00	0.00
5,100.0	2.82	123.23	5,099.5	-12.4	18.9	-11.7	0.00	0.00	0.00
5,200.0	2.82	123.23	5,199.4	-15.1	23.0	-14.3	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)
5,300.0	2.82	123.23	5,299.3	-17.8	27.1	-16.8	0.00	0.00	0.00
5,400.0	2.82	123.23	5,399.1	-20.5	31.3	-19.4	0.00	0.00	0.00
5,500.0	2.82	123.23	5,499.0	-23.2	35.4	-21.9	0.00	0.00	0.00
5,600.0	2.82	123.23	5,598.9	-25.9	39.5	-24.5	0.00	0.00	0.00
5,700.0	2.82	123.23	5,698.8	-28.6	43.6	-27.0	0.00	0.00	0.00
5,800.0	2.82	123.23	5,798.7	-31.3	47.7	-29.6	0.00	0.00	0.00
5,900.0	2.82	123.23	5,898.5	-34.0	51.9	-32.1	0.00	0.00	0.00
6,000.0	2.82	123.23	5,998.4	-36.7	56.0	-34.7	0.00	0.00	0.00
6,100.0	2.82	123.23	6,098.3	-39.4	60.1	-37.2	0.00	0.00	0.00
6,200.0	2.82	123.23	6,198.2	-42.1	64.2	-39.8	0.00	0.00	0.00
6,300.0	2.82	123.23	6,298.0	-44.8	68.3	-42.3	0.00	0.00	0.00
6,400.0	2.82	123.23	6,397.9	-47.5	72.5	-44.9	0.00	0.00	0.00
6,500.0	2.82	123.23	6,497.8	-50.2	76.6	-47.5	0.00	0.00	0.00
6,600.0	2.82	123.23	6,597.7	-52.9	80.7	-50.0	0.00	0.00	0.00
6,700.0	2.82	123.23	6,697.6	-55.6	84.8	-52.6	0.00	0.00	0.00
6,800.0	2.82	123.23	6,797.4	-58.3	88.9	-55.1	0.00	0.00	0.00
6,900.0	2.82	123.23	6,897.3	-61.0	93.1	-57.7	0.00	0.00	0.00
7,000.0	2.82	123.23	6,997.2	-63.7	97.2	-60.2	0.00	0.00	0.00
7,100.0	2.82	123.23	7,097.1	-66.4	101.3	-62.8	0.00	0.00	0.00
7,200.0	2.82	123.23	7,197.0	-69.1	105.4	-65.3	0.00	0.00	0.00
7,300.0	2.82	123.23	7,296.8	-71.8	109.5	-67.9	0.00	0.00	0.00
7,400.0	2.82	123.23	7,396.7	-74.5	113.7	-70.4	0.00	0.00	0.00
7,500.0	2.82	123.23	7,496.6	-77.2	117.8	-73.0	0.00	0.00	0.00
7,600.0	2.82	123.23	7,596.5	-79.9	121.9	-75.5	0.00	0.00	0.00
7,700.0	2.82	123.23	7,696.3	-82.6	126.0	-78.1	0.00	0.00	0.00
7,800.0	2.82	123.23	7,796.2	-85.3	130.1	-80.6	0.00	0.00	0.00
7,900.0	2.82	123.23	7,896.1	-88.0	134.3	-83.2	0.00	0.00	0.00
8,000.0	2.82	123.23	7,996.0	-90.7	138.4	-85.7	0.00	0.00	0.00
8,100.0	2.82	123.23	8,095.9	-93.4	142.5	-88.3	0.00	0.00	0.00
8,200.0	2.82	123.23	8,195.7	-96.1	146.6	-90.8	0.00	0.00	0.00
8,300.0	2.82	123.23	8,295.6	-98.8	150.7	-93.4	0.00	0.00	0.00
8,400.0	2.82	123.23	8,395.5	-101.5	154.9	-96.0	0.00	0.00	0.00
8,500.0	2.82	123.23	8,495.4	-104.2	159.0	-98.5	0.00	0.00	0.00
8,600.0	2.82	123.23	8,595.3	-106.8	163.1	-101.1	0.00	0.00	0.00
8,700.0	2.82	123.23	8,695.1	-109.5	167.2	-103.6	0.00	0.00	0.00
8,800.0	2.82	123.23	8,795.0	-112.2	171.3	-106.2	0.00	0.00	0.00
8,900.0	2.82	123.23	8,894.9	-114.9	175.5	-108.7	0.00	0.00	0.00
9,000.0	2.82	123.23	8,994.8	-117.6	179.6	-111.3	0.00	0.00	0.00
9,100.0	2.82	123.23	9,094.6	-120.3	183.7	-113.8	0.00	0.00	0.00
9,200.0	2.82	123.23	9,194.5	-123.0	187.8	-116.4	0.00	0.00	0.00
9,300.0	2.82	123.23	9,294.4	-125.7	191.9	-118.9	0.00	0.00	0.00
9,400.0	2.82	123.23	9,394.3	-128.4	196.1	-121.5	0.00	0.00	0.00
9,500.0	2.82	123.23	9,494.2	-131.1	200.2	-124.0	0.00	0.00	0.00
9,600.0	2.82	123.23	9,594.0	-133.8	204.3	-126.6	0.00	0.00	0.00
9,700.0	2.82	123.23	9,693.9	-136.5	208.4	-129.1	0.00	0.00	0.00
9,800.0	2.82	123.23	9,793.8	-139.2	212.5	-131.7	0.00	0.00	0.00
9,900.0	2.82	123.23	9,893.7	-141.9	216.7	-134.2	0.00	0.00	0.00
10,000.0	2.82	123.23	9,993.6	-144.6	220.8	-136.8	0.00	0.00	0.00
10,100.0	2.82	123.23	10,093.4	-147.3	224.9	-139.4	0.00	0.00	0.00
10,200.0	2.82	123.23	10,193.3	-150.0	229.0	-141.9	0.00	0.00	0.00
10,300.0	2.82	123.23	10,293.2	-152.7	233.1	-144.5	0.00	0.00	0.00
10,400.0	2.82	123.23	10,393.1	-155.4	237.3	-147.0	0.00	0.00	0.00
10,500.0	2.82	123.23	10,492.9	-158.1	241.4	-149.6	0.00	0.00	0.00
10,600.0	2.82	123.23	10,592.8	-160.8	245.5	-152.1	0.00	0.00	0.00

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10,700.0	2.82	123.23	10,692.7	-163.5	249.6	-154.7	0.00	0.00	0.00
10,800.0	2.82	123.23	10,792.6	-166.2	253.7	-157.2	0.00	0.00	0.00
10,900.0	2.82	123.23	10,892.5	-168.9	257.9	-159.8	0.00	0.00	0.00
11,000.0	2.82	123.23	10,992.3	-171.6	262.0	-162.3	0.00	0.00	0.00
11,100.0	2.82	123.23	11,092.2	-174.3	266.1	-164.9	0.00	0.00	0.00
11,200.0	2.82	123.23	11,192.1	-177.0	270.2	-167.4	0.00	0.00	0.00
11,300.0	2.82	123.23	11,292.0	-179.7	274.3	-170.0	0.00	0.00	0.00
11,400.0	2.82	123.23	11,391.9	-182.4	278.5	-172.5	0.00	0.00	0.00
11,500.0	2.82	123.23	11,491.7	-185.1	282.6	-175.1	0.00	0.00	0.00
11,600.0	2.82	123.23	11,591.6	-187.8	286.7	-177.6	0.00	0.00	0.00
11,700.0	2.82	123.23	11,691.5	-190.5	290.8	-180.2	0.00	0.00	0.00
11,800.0	2.82	123.23	11,791.4	-193.2	294.9	-182.7	0.00	0.00	0.00
11,900.0	2.82	123.23	11,891.2	-195.9	299.1	-185.3	0.00	0.00	0.00
11,983.7	2.82	123.23	11,974.9	-198.2	302.5	-187.4	0.00	0.00	0.00
12,000.0	2.38	80.22	11,991.1	-198.3	303.2	-187.6	12.00	-2.73	-264.57
12,025.0	4.12	34.22	12,016.1	-197.5	304.2	-186.7	12.00	6.95	-183.98
12,050.0	6.80	19.62	12,041.0	-195.4	305.2	-184.5	12.00	10.73	-58.43
12,075.0	9.67	13.43	12,065.7	-191.9	306.2	-181.1	12.00	11.48	-24.76
12,100.0	12.60	10.07	12,090.2	-187.2	307.1	-176.3	12.00	11.72	-13.42
12,125.0	15.56	7.97	12,114.5	-181.2	308.1	-170.3	12.00	11.83	-8.40
12,150.0	18.53	6.53	12,138.4	-173.9	309.0	-163.0	12.00	11.88	-5.77
12,175.0	21.51	5.47	12,161.9	-165.4	309.9	-154.4	12.00	11.91	-4.22
12,200.0	24.49	4.67	12,184.9	-155.7	310.7	-144.7	12.00	11.93	-3.23
12,225.0	27.48	4.02	12,207.4	-144.8	311.6	-133.7	12.00	11.95	-2.57
12,250.0	30.47	3.50	12,229.2	-132.7	312.4	-121.6	12.00	11.96	-2.10
12,275.0	33.46	3.06	12,250.4	-119.5	313.1	-108.4	12.00	11.96	-1.76
12,300.0	36.45	2.68	12,270.9	-105.2	313.8	-94.1	12.00	11.97	-1.50
12,325.0	39.44	2.36	12,290.6	-89.8	314.5	-78.7	12.00	11.97	-1.30
12,350.0	42.44	2.07	12,309.5	-73.5	315.1	-62.3	12.00	11.98	-1.15
12,375.0	45.43	1.82	12,327.5	-56.1	315.7	-45.0	12.00	11.98	-1.02
12,400.0	48.43	1.58	12,344.6	-37.9	316.3	-26.7	12.00	11.98	-0.92
12,425.0	51.42	1.37	12,360.7	-18.7	316.8	-7.6	12.00	11.98	-0.84
12,450.0	54.42	1.18	12,375.8	1.2	317.2	12.3	12.00	11.98	-0.77
12,475.0	57.41	1.00	12,389.8	21.9	317.6	33.0	12.00	11.99	-0.72
12,500.0	60.41	0.83	12,402.7	43.3	317.9	54.4	12.00	11.99	-0.67
12,525.0	63.41	0.68	12,414.4	65.3	318.2	76.5	12.00	11.99	-0.63
12,550.0	66.40	0.53	12,425.0	88.0	318.5	99.1	12.00	11.99	-0.60
12,558.6	67.43	0.48	12,428.4	95.9	318.5	107.0	12.00	11.99	-0.58
FTP (CG 35 Fed Com 704H)									
12,575.0	69.40	0.38	12,434.4	111.1	318.6	122.3	12.00	11.99	-0.57
12,600.0	72.40	0.25	12,442.6	134.8	318.8	145.9	12.00	11.99	-0.55
12,625.0	75.40	0.11	12,449.6	158.8	318.9	169.9	12.00	11.99	-0.53
12,650.0	78.39	359.98	12,455.2	183.1	318.9	194.2	12.00	11.99	-0.52
12,675.0	81.39	359.86	12,459.6	207.7	318.8	218.8	12.00	11.99	-0.51
12,700.0	84.39	359.73	12,462.7	232.5	318.7	243.6	12.00	11.99	-0.50
12,725.0	87.39	359.61	12,464.5	257.5	318.6	268.5	12.00	11.99	-0.49
12,746.8	90.00	359.50	12,465.0	279.3	318.4	290.3	12.00	11.99	-0.49
12,800.0	90.00	359.50	12,465.0	332.5	318.0	343.4	0.00	0.00	0.00
12,900.0	90.00	359.50	12,465.0	432.5	317.1	443.3	0.00	0.00	0.00
13,000.0	90.00	359.50	12,465.0	532.5	316.2	543.2	0.00	0.00	0.00
13,100.0	90.00	359.50	12,465.0	632.5	315.4	643.1	0.00	0.00	0.00
13,200.0	90.00	359.50	12,465.0	732.4	314.5	743.0	0.00	0.00	0.00
13,300.0	90.00	359.50	12,465.0	832.4	313.6	842.9	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: #704H
Wellbore: OH
Design: Plan #.01

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3345.0usft
MD Reference: KB = 25' @ 3345.0usft
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)
13,400.0	90.00	359.50	12,465.0	932.4	312.7	942.8	0.00	0.00	0.00
13,500.0	90.00	359.50	12,465.0	1,032.4	311.9	1,042.7	0.00	0.00	0.00
13,600.0	90.00	359.50	12,465.0	1,132.4	311.0	1,142.6	0.00	0.00	0.00
13,700.0	90.00	359.50	12,465.0	1,232.4	310.1	1,242.6	0.00	0.00	0.00
13,800.0	90.00	359.50	12,465.0	1,332.4	309.2	1,342.5	0.00	0.00	0.00
13,900.0	90.00	359.50	12,465.0	1,432.4	308.4	1,442.4	0.00	0.00	0.00
14,000.0	90.00	359.50	12,465.0	1,532.4	307.5	1,542.3	0.00	0.00	0.00
14,100.0	90.00	359.50	12,465.0	1,632.4	306.6	1,642.2	0.00	0.00	0.00
14,200.0	90.00	359.50	12,465.0	1,732.4	305.8	1,742.1	0.00	0.00	0.00
14,300.0	90.00	359.50	12,465.0	1,832.4	304.9	1,842.0	0.00	0.00	0.00
14,400.0	90.00	359.50	12,465.0	1,932.4	304.0	1,941.9	0.00	0.00	0.00
14,500.0	90.00	359.50	12,465.0	2,032.4	303.1	2,041.8	0.00	0.00	0.00
14,600.0	90.00	359.50	12,465.0	2,132.4	302.3	2,141.7	0.00	0.00	0.00
14,700.0	90.00	359.50	12,465.0	2,232.4	301.4	2,241.6	0.00	0.00	0.00
14,800.0	90.00	359.50	12,465.0	2,332.4	300.5	2,341.5	0.00	0.00	0.00
14,900.0	90.00	359.50	12,465.0	2,432.4	299.6	2,441.4	0.00	0.00	0.00
15,000.0	90.00	359.50	12,465.0	2,532.4	298.8	2,541.3	0.00	0.00	0.00
15,100.0	90.00	359.50	12,465.0	2,632.4	297.9	2,641.2	0.00	0.00	0.00
15,200.0	90.00	359.50	12,465.0	2,732.4	297.0	2,741.1	0.00	0.00	0.00
15,300.0	90.00	359.50	12,465.0	2,832.4	296.2	2,841.0	0.00	0.00	0.00
15,400.0	90.00	359.50	12,465.0	2,932.4	295.3	2,940.9	0.00	0.00	0.00
15,500.0	90.00	359.50	12,465.0	3,032.4	294.4	3,040.8	0.00	0.00	0.00
15,600.0	90.00	359.50	12,465.0	3,132.4	293.5	3,140.7	0.00	0.00	0.00
15,700.0	90.00	359.50	12,465.0	3,232.4	292.7	3,240.6	0.00	0.00	0.00
15,800.0	90.00	359.50	12,465.0	3,332.3	291.8	3,340.5	0.00	0.00	0.00
15,900.0	90.00	359.50	12,465.0	3,432.3	290.9	3,440.4	0.00	0.00	0.00
16,000.0	90.00	359.50	12,465.0	3,532.3	290.0	3,540.3	0.00	0.00	0.00
16,100.0	90.00	359.50	12,465.0	3,632.3	289.2	3,640.2	0.00	0.00	0.00
16,200.0	90.00	359.50	12,465.0	3,732.3	288.3	3,740.2	0.00	0.00	0.00
16,300.0	90.00	359.50	12,465.0	3,832.3	287.4	3,840.1	0.00	0.00	0.00
16,400.0	90.00	359.50	12,465.0	3,932.3	286.6	3,940.0	0.00	0.00	0.00
16,500.0	90.00	359.50	12,465.0	4,032.3	285.7	4,039.9	0.00	0.00	0.00
16,600.0	90.00	359.50	12,465.0	4,132.3	284.8	4,139.8	0.00	0.00	0.00
16,700.0	90.00	359.50	12,465.0	4,232.3	283.9	4,239.7	0.00	0.00	0.00
16,800.0	90.00	359.50	12,465.0	4,332.3	283.1	4,339.6	0.00	0.00	0.00
16,900.0	90.00	359.50	12,465.0	4,432.3	282.2	4,439.5	0.00	0.00	0.00
17,000.0	90.00	359.50	12,465.0	4,532.3	281.3	4,539.4	0.00	0.00	0.00
17,100.0	90.00	359.50	12,465.0	4,632.3	280.4	4,639.3	0.00	0.00	0.00
17,200.0	90.00	359.50	12,465.0	4,732.3	279.6	4,739.2	0.00	0.00	0.00
17,300.0	90.00	359.50	12,465.0	4,832.3	278.7	4,839.1	0.00	0.00	0.00
17,400.0	90.00	359.50	12,465.0	4,932.3	277.8	4,939.0	0.00	0.00	0.00
17,500.0	90.00	359.50	12,465.0	5,032.3	277.0	5,038.9	0.00	0.00	0.00
17,600.0	90.00	359.50	12,465.0	5,132.3	276.1	5,138.8	0.00	0.00	0.00
17,700.0	90.00	359.50	12,465.0	5,232.3	275.2	5,238.7	0.00	0.00	0.00
17,800.0	90.00	359.50	12,465.0	5,332.3	274.3	5,338.6	0.00	0.00	0.00
17,900.0	90.00	359.50	12,465.0	5,432.3	273.5	5,438.5	0.00	0.00	0.00
18,000.0	90.00	359.50	12,465.0	5,532.3	272.6	5,538.4	0.00	0.00	0.00
18,100.0	90.00	359.50	12,465.0	5,632.3	271.7	5,638.3	0.00	0.00	0.00
18,200.0	90.00	359.50	12,465.0	5,732.3	270.8	5,738.2	0.00	0.00	0.00
18,300.0	90.00	359.50	12,465.0	5,832.3	270.0	5,838.1	0.00	0.00	0.00
18,400.0	90.00	359.50	12,465.0	5,932.3	269.1	5,938.0	0.00	0.00	0.00
18,500.0	90.00	359.50	12,465.0	6,032.2	268.2	6,037.9	0.00	0.00	0.00
18,600.0	90.00	359.50	12,465.0	6,132.2	267.4	6,137.8	0.00	0.00	0.00
18,700.0	90.00	359.50	12,465.0	6,232.2	266.5	6,237.8	0.00	0.00	0.00

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Wellbore: OH
Design: Plan #.01

Local Co-ordinate Reference: Well #704H
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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)
18,800.0	90.00	359.50	12,465.0	6,332.2	265.6	6,337.7	0.00	0.00	0.00
18,900.0	90.00	359.50	12,465.0	6,432.2	264.7	6,437.6	0.00	0.00	0.00
19,000.0	90.00	359.50	12,465.0	6,532.2	263.9	6,537.5	0.00	0.00	0.00
19,100.0	90.00	359.50	12,465.0	6,632.2	263.0	6,637.4	0.00	0.00	0.00
19,200.0	90.00	359.50	12,465.0	6,732.2	262.1	6,737.3	0.00	0.00	0.00
19,300.0	90.00	359.50	12,465.0	6,832.2	261.2	6,837.2	0.00	0.00	0.00
19,400.0	90.00	359.50	12,465.0	6,932.2	260.4	6,937.1	0.00	0.00	0.00
19,500.0	90.00	359.50	12,465.0	7,032.2	259.5	7,037.0	0.00	0.00	0.00
19,600.0	90.00	359.50	12,465.0	7,132.2	258.6	7,136.9	0.00	0.00	0.00
19,700.0	90.00	359.50	12,465.0	7,232.2	257.8	7,236.8	0.00	0.00	0.00
19,786.8	90.00	359.50	12,465.0	7,319.0	257.0	7,323.5	0.00	0.00	0.00

PBHL (CG 35 Fed Com 704H)

Design Targets
Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
FTP (CG 35 Fed Com 7)	0.00	0.01	12,465.0	81.0	319.0	365,000.00	744,787.00	32° 0' 3.748 N	103° 32' 37.271 W
- plan misses target center by 39.5usft at 12558.6usft MD (12428.4 TVD, 95.9 N, 318.5 E)									
- Point									
PBHL (CG 35 Fed Com)	0.00	0.00	12,465.0	7,319.0	257.0	372,238.00	744,725.00	32° 1' 15.378 N	103° 32' 37.377 W
- plan hits target center									
- Point									