



HOBBS OCD
FEB 06 2017
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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Colgrove 35 Fed Com

#707H

OH

Plan: Plan #.01

Standard Planning Report

14 July, 2016

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Colgrove 35 Fed Com
Well: #707H
Wellbore: OH
Design: Plan #.01

Local Co-ordinate Reference: Well #707H
TVD Reference: KB @ 3360.0usft
MD Reference: KB @ 3360.0usft
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 #707H

Well Position	+N/-S	-26.0 usft	Northing:	364,989.00 usft	Latitude:	32° 0' 3.471 N
	+E/-W	4,419.0 usft	Easting:	747,101.00 usft	Longitude:	103° 32' 10.402 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,335.0 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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	356.88

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	
4,816.4	3.16	231.30	4,816.3	-5.5	-6.8	1.00	1.00	0.00	231.30	
11,982.8	3.16	231.30	11,971.7	-252.8	-315.6	0.00	0.00	0.00	0.00	
12,749.1	90.00	359.55	12,465.0	224.2	-340.7	12.00	11.33	16.74	128.20	
19,787.1	90.00	359.55	12,465.0	7,262.0	-396.0	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	231.30	4,600.0	-0.5	-0.7	-0.5	1.00	1.00	0.00
4,700.0	2.00	231.30	4,700.0	-2.2	-2.7	-2.0	1.00	1.00	0.00
4,800.0	3.00	231.30	4,799.9	-4.9	-6.1	-4.6	1.00	1.00	0.00
4,816.4	3.16	231.30	4,816.3	-5.5	-6.8	-5.1	1.00	1.00	0.00
4,900.0	3.16	231.30	4,899.7	-8.3	-10.4	-7.8	0.00	0.00	0.00
5,000.0	3.16	231.30	4,999.6	-11.8	-14.7	-11.0	0.00	0.00	0.00
5,100.0	3.16	231.30	5,099.4	-15.2	-19.0	-14.2	0.00	0.00	0.00
5,200.0	3.16	231.30	5,199.3	-18.7	-23.3	-17.4	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	3.16	231.30	5,299.1	-22.2	-27.7	-20.6	0.00	0.00	0.00
5,400.0	3.16	231.30	5,398.9	-25.6	-32.0	-23.8	0.00	0.00	0.00
5,500.0	3.16	231.30	5,498.8	-29.1	-36.3	-27.0	0.00	0.00	0.00
5,600.0	3.16	231.30	5,598.6	-32.5	-40.6	-30.2	0.00	0.00	0.00
5,700.0	3.16	231.30	5,698.5	-36.0	-44.9	-33.5	0.00	0.00	0.00
5,800.0	3.16	231.30	5,798.3	-39.4	-49.2	-36.7	0.00	0.00	0.00
5,900.0	3.16	231.30	5,898.2	-42.9	-53.5	-39.9	0.00	0.00	0.00
6,000.0	3.16	231.30	5,998.0	-46.3	-57.8	-43.1	0.00	0.00	0.00
6,100.0	3.16	231.30	6,097.9	-49.8	-62.1	-46.3	0.00	0.00	0.00
6,200.0	3.16	231.30	6,197.7	-53.2	-66.4	-49.5	0.00	0.00	0.00
6,300.0	3.16	231.30	6,297.6	-56.7	-70.7	-52.7	0.00	0.00	0.00
6,400.0	3.16	231.30	6,397.4	-60.1	-75.0	-55.9	0.00	0.00	0.00
6,500.0	3.16	231.30	6,497.3	-63.6	-79.3	-59.1	0.00	0.00	0.00
6,600.0	3.16	231.30	6,597.1	-67.0	-83.7	-62.4	0.00	0.00	0.00
6,700.0	3.16	231.30	6,697.0	-70.5	-88.0	-65.6	0.00	0.00	0.00
6,800.0	3.16	231.30	6,796.8	-73.9	-92.3	-68.8	0.00	0.00	0.00
6,900.0	3.16	231.30	6,896.7	-77.4	-96.6	-72.0	0.00	0.00	0.00
7,000.0	3.16	231.30	6,996.5	-80.8	-100.9	-75.2	0.00	0.00	0.00
7,100.0	3.16	231.30	7,096.4	-84.3	-105.2	-78.4	0.00	0.00	0.00
7,200.0	3.16	231.30	7,196.2	-87.7	-109.5	-81.6	0.00	0.00	0.00
7,300.0	3.16	231.30	7,296.1	-91.2	-113.8	-84.8	0.00	0.00	0.00
7,400.0	3.16	231.30	7,395.9	-94.6	-118.1	-88.1	0.00	0.00	0.00
7,500.0	3.16	231.30	7,495.7	-98.1	-122.4	-91.3	0.00	0.00	0.00
7,600.0	3.16	231.30	7,595.6	-101.5	-126.7	-94.5	0.00	0.00	0.00
7,700.0	3.16	231.30	7,695.4	-105.0	-131.0	-97.7	0.00	0.00	0.00
7,800.0	3.16	231.30	7,795.3	-108.4	-135.4	-100.9	0.00	0.00	0.00
7,900.0	3.16	231.30	7,895.1	-111.9	-139.7	-104.1	0.00	0.00	0.00
8,000.0	3.16	231.30	7,995.0	-115.3	-144.0	-107.3	0.00	0.00	0.00
8,100.0	3.16	231.30	8,094.8	-118.8	-148.3	-110.5	0.00	0.00	0.00
8,200.0	3.16	231.30	8,194.7	-122.2	-152.6	-113.7	0.00	0.00	0.00
8,300.0	3.16	231.30	8,294.5	-125.7	-156.9	-117.0	0.00	0.00	0.00
8,400.0	3.16	231.30	8,394.4	-129.1	-161.2	-120.2	0.00	0.00	0.00
8,500.0	3.16	231.30	8,494.2	-132.6	-165.5	-123.4	0.00	0.00	0.00
8,600.0	3.16	231.30	8,594.1	-136.0	-169.8	-126.6	0.00	0.00	0.00
8,700.0	3.16	231.30	8,693.9	-139.5	-174.1	-129.8	0.00	0.00	0.00
8,800.0	3.16	231.30	8,793.8	-142.9	-178.4	-133.0	0.00	0.00	0.00
8,900.0	3.16	231.30	8,893.6	-146.4	-182.7	-136.2	0.00	0.00	0.00
9,000.0	3.16	231.30	8,993.5	-149.8	-187.1	-139.4	0.00	0.00	0.00
9,100.0	3.16	231.30	9,093.3	-153.3	-191.4	-142.6	0.00	0.00	0.00
9,200.0	3.16	231.30	9,193.2	-156.7	-195.7	-145.9	0.00	0.00	0.00
9,300.0	3.16	231.30	9,293.0	-160.2	-200.0	-149.1	0.00	0.00	0.00
9,400.0	3.16	231.30	9,392.9	-163.6	-204.3	-152.3	0.00	0.00	0.00
9,500.0	3.16	231.30	9,492.7	-167.1	-208.6	-155.5	0.00	0.00	0.00
9,600.0	3.16	231.30	9,592.5	-170.6	-212.9	-158.7	0.00	0.00	0.00
9,700.0	3.16	231.30	9,692.4	-174.0	-217.2	-161.9	0.00	0.00	0.00
9,800.0	3.16	231.30	9,792.2	-177.5	-221.5	-165.1	0.00	0.00	0.00
9,900.0	3.16	231.30	9,892.1	-180.9	-225.8	-168.3	0.00	0.00	0.00
10,000.0	3.16	231.30	9,991.9	-184.4	-230.1	-171.6	0.00	0.00	0.00
10,100.0	3.16	231.30	10,091.8	-187.8	-234.4	-174.8	0.00	0.00	0.00
10,200.0	3.16	231.30	10,191.6	-191.3	-238.8	-178.0	0.00	0.00	0.00
10,300.0	3.16	231.30	10,291.5	-194.7	-243.1	-181.2	0.00	0.00	0.00
10,400.0	3.16	231.30	10,391.3	-198.2	-247.4	-184.4	0.00	0.00	0.00
10,500.0	3.16	231.30	10,491.2	-201.6	-251.7	-187.6	0.00	0.00	0.00
10,600.0	3.16	231.30	10,591.0	-205.1	-256.0	-190.8	0.00	0.00	0.00

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10,700.0	3.16	231.30	10,690.9	-208.5	-260.3	-194.0	0.00	0.00	0.00
10,800.0	3.16	231.30	10,790.7	-212.0	-264.6	-197.2	0.00	0.00	0.00
10,900.0	3.16	231.30	10,890.6	-215.4	-268.9	-200.5	0.00	0.00	0.00
11,000.0	3.16	231.30	10,990.4	-218.9	-273.2	-203.7	0.00	0.00	0.00
11,100.0	3.16	231.30	11,090.3	-222.3	-277.5	-206.9	0.00	0.00	0.00
11,200.0	3.16	231.30	11,190.1	-225.8	-281.8	-210.1	0.00	0.00	0.00
11,300.0	3.16	231.30	11,290.0	-229.2	-286.1	-213.3	0.00	0.00	0.00
11,400.0	3.16	231.30	11,389.8	-232.7	-290.5	-216.5	0.00	0.00	0.00
11,500.0	3.16	231.30	11,489.6	-236.1	-294.8	-219.7	0.00	0.00	0.00
11,600.0	3.16	231.30	11,589.5	-239.6	-299.1	-222.9	0.00	0.00	0.00
11,700.0	3.16	231.30	11,689.3	-243.0	-303.4	-226.1	0.00	0.00	0.00
11,800.0	3.16	231.30	11,789.2	-246.5	-307.7	-229.4	0.00	0.00	0.00
11,900.0	3.16	231.30	11,889.0	-249.9	-312.0	-232.6	0.00	0.00	0.00
11,982.8	3.16	231.30	11,971.7	-252.8	-315.6	-235.2	0.00	0.00	0.00
12,000.0	2.49	272.06	11,988.9	-253.1	-316.3	-235.5	12.00	-3.92	236.59
12,025.0	3.98	320.94	12,013.9	-252.4	-317.4	-234.7	12.00	5.97	195.50
12,050.0	6.59	337.49	12,038.7	-250.4	-318.5	-232.7	12.00	10.45	66.19
12,075.0	9.44	344.41	12,063.5	-247.1	-319.6	-229.3	12.00	11.38	27.69
12,100.0	12.36	348.12	12,088.0	-242.5	-320.7	-224.7	12.00	11.67	14.83
12,125.0	15.31	350.42	12,112.3	-236.6	-321.8	-218.7	12.00	11.80	9.21
12,150.0	18.27	351.99	12,136.3	-229.5	-322.9	-211.5	12.00	11.86	6.29
12,175.0	21.25	353.14	12,159.8	-221.1	-324.0	-203.1	12.00	11.90	4.58
12,200.0	24.23	354.01	12,182.8	-211.5	-325.1	-193.5	12.00	11.92	3.50
12,225.0	27.21	354.71	12,205.4	-200.7	-326.1	-182.6	12.00	11.94	2.77
12,250.0	30.20	355.27	12,227.3	-188.7	-327.2	-170.6	12.00	11.95	2.26
12,275.0	33.19	355.74	12,248.5	-175.6	-328.2	-157.5	12.00	11.96	1.89
12,300.0	36.18	356.15	12,269.1	-161.4	-329.2	-143.3	12.00	11.97	1.61
12,325.0	39.18	356.50	12,288.9	-146.2	-330.2	-128.0	12.00	11.97	1.40
12,350.0	42.17	356.80	12,307.8	-129.9	-331.1	-111.7	12.00	11.97	1.23
12,375.0	45.16	357.08	12,325.9	-112.7	-332.0	-94.5	12.00	11.98	1.09
12,400.0	48.16	357.32	12,343.1	-94.5	-332.9	-76.3	12.00	11.98	0.98
12,425.0	51.15	357.55	12,359.3	-75.5	-333.8	-57.2	12.00	11.98	0.90
12,450.0	54.15	357.75	12,374.4	-55.7	-334.6	-37.4	12.00	11.98	0.82
12,475.0	57.14	357.94	12,388.5	-35.0	-335.4	-16.7	12.00	11.98	0.76
12,500.0	60.14	358.12	12,401.5	-13.7	-336.1	4.6	12.00	11.98	0.71
12,525.0	63.14	358.29	12,413.4	8.3	-336.8	26.6	12.00	11.99	0.67
12,550.0	66.13	358.45	12,424.1	30.9	-337.4	49.2	12.00	11.99	0.64
12,561.1	67.46	358.52	12,428.5	41.1	-337.7	59.4	12.00	11.99	0.62
FTP (CG 35 Fed Com 707H)									
12,575.0	69.13	358.60	12,433.6	54.0	-338.0	72.3	12.00	11.99	0.60
12,600.0	72.13	358.75	12,441.9	77.5	-338.6	95.9	12.00	11.99	0.59
12,625.0	75.12	358.89	12,449.0	101.5	-339.1	119.8	12.00	11.99	0.57
12,650.0	78.12	359.03	12,454.8	125.8	-339.5	144.1	12.00	11.99	0.55
12,675.0	81.12	359.16	12,459.3	150.4	-339.9	168.7	12.00	11.99	0.54
12,700.0	84.11	359.29	12,462.5	175.2	-340.2	193.5	12.00	11.99	0.53
12,725.0	87.11	359.42	12,464.4	200.1	-340.5	218.4	12.00	11.99	0.52
12,749.1	90.00	359.55	12,465.0	224.2	-340.7	242.4	12.00	11.99	0.52
12,800.0	90.00	359.55	12,465.0	275.1	-341.1	293.3	0.00	0.00	0.00
12,900.0	90.00	359.55	12,465.0	375.1	-341.9	393.2	0.00	0.00	0.00
13,000.0	90.00	359.55	12,465.0	475.1	-342.7	493.1	0.00	0.00	0.00
13,100.0	90.00	359.55	12,465.0	575.1	-343.5	593.0	0.00	0.00	0.00
13,200.0	90.00	359.55	12,465.0	675.1	-344.3	692.9	0.00	0.00	0.00
13,300.0	90.00	359.55	12,465.0	775.1	-345.1	792.7	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: #707H
Wellbore: OH
Design: Plan #.01

Local Co-ordinate Reference: Well #707H
TVD Reference: KB @ 3360.0usft
MD Reference: KB @ 3360.0usft
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	359.55	12,465.0	875.1	-345.8	892.6	0.00	0.00	0.00
13,500.0	90.00	359.55	12,465.0	975.1	-346.6	992.5	0.00	0.00	0.00
13,600.0	90.00	359.55	12,465.0	1,075.1	-347.4	1,092.4	0.00	0.00	0.00
13,700.0	90.00	359.55	12,465.0	1,175.1	-348.2	1,192.3	0.00	0.00	0.00
13,800.0	90.00	359.55	12,465.0	1,275.1	-349.0	1,292.2	0.00	0.00	0.00
13,900.0	90.00	359.55	12,465.0	1,375.1	-349.8	1,392.1	0.00	0.00	0.00
14,000.0	90.00	359.55	12,465.0	1,475.1	-350.5	1,492.0	0.00	0.00	0.00
14,100.0	90.00	359.55	12,465.0	1,575.1	-351.3	1,591.9	0.00	0.00	0.00
14,200.0	90.00	359.55	12,465.0	1,675.1	-352.1	1,691.8	0.00	0.00	0.00
14,300.0	90.00	359.55	12,465.0	1,775.1	-352.9	1,791.7	0.00	0.00	0.00
14,400.0	90.00	359.55	12,465.0	1,875.1	-353.7	1,891.6	0.00	0.00	0.00
14,500.0	90.00	359.55	12,465.0	1,975.1	-354.5	1,991.4	0.00	0.00	0.00
14,600.0	90.00	359.55	12,465.0	2,075.1	-355.3	2,091.3	0.00	0.00	0.00
14,700.0	90.00	359.55	12,465.0	2,175.1	-356.0	2,191.2	0.00	0.00	0.00
14,800.0	90.00	359.55	12,465.0	2,275.1	-356.8	2,291.1	0.00	0.00	0.00
14,900.0	90.00	359.55	12,465.0	2,375.1	-357.6	2,391.0	0.00	0.00	0.00
15,000.0	90.00	359.55	12,465.0	2,475.1	-358.4	2,490.9	0.00	0.00	0.00
15,100.0	90.00	359.55	12,465.0	2,575.1	-359.2	2,590.8	0.00	0.00	0.00
15,200.0	90.00	359.55	12,465.0	2,675.1	-360.0	2,690.7	0.00	0.00	0.00
15,300.0	90.00	359.55	12,465.0	2,775.0	-360.8	2,790.6	0.00	0.00	0.00
15,400.0	90.00	359.55	12,465.0	2,875.0	-361.5	2,890.5	0.00	0.00	0.00
15,500.0	90.00	359.55	12,465.0	2,975.0	-362.3	2,990.4	0.00	0.00	0.00
15,600.0	90.00	359.55	12,465.0	3,075.0	-363.1	3,090.2	0.00	0.00	0.00
15,700.0	90.00	359.55	12,465.0	3,175.0	-363.9	3,190.1	0.00	0.00	0.00
15,800.0	90.00	359.55	12,465.0	3,275.0	-364.7	3,290.0	0.00	0.00	0.00
15,900.0	90.00	359.55	12,465.0	3,375.0	-365.5	3,389.9	0.00	0.00	0.00
16,000.0	90.00	359.55	12,465.0	3,475.0	-366.3	3,489.8	0.00	0.00	0.00
16,100.0	90.00	359.55	12,465.0	3,575.0	-367.0	3,589.7	0.00	0.00	0.00
16,200.0	90.00	359.55	12,465.0	3,675.0	-367.8	3,689.6	0.00	0.00	0.00
16,300.0	90.00	359.55	12,465.0	3,775.0	-368.6	3,789.5	0.00	0.00	0.00
16,400.0	90.00	359.55	12,465.0	3,875.0	-369.4	3,889.4	0.00	0.00	0.00
16,500.0	90.00	359.55	12,465.0	3,975.0	-370.2	3,989.3	0.00	0.00	0.00
16,600.0	90.00	359.55	12,465.0	4,075.0	-371.0	4,089.2	0.00	0.00	0.00
16,700.0	90.00	359.55	12,465.0	4,175.0	-371.8	4,189.1	0.00	0.00	0.00
16,800.0	90.00	359.55	12,465.0	4,275.0	-372.5	4,288.9	0.00	0.00	0.00
16,900.0	90.00	359.55	12,465.0	4,375.0	-373.3	4,388.8	0.00	0.00	0.00
17,000.0	90.00	359.55	12,465.0	4,475.0	-374.1	4,488.7	0.00	0.00	0.00
17,100.0	90.00	359.55	12,465.0	4,575.0	-374.9	4,588.6	0.00	0.00	0.00
17,200.0	90.00	359.55	12,465.0	4,675.0	-375.7	4,688.5	0.00	0.00	0.00
17,300.0	90.00	359.55	12,465.0	4,775.0	-376.5	4,788.4	0.00	0.00	0.00
17,400.0	90.00	359.55	12,465.0	4,875.0	-377.3	4,888.3	0.00	0.00	0.00
17,500.0	90.00	359.55	12,465.0	4,975.0	-378.0	4,988.2	0.00	0.00	0.00
17,600.0	90.00	359.55	12,465.0	5,075.0	-378.8	5,088.1	0.00	0.00	0.00
17,700.0	90.00	359.55	12,465.0	5,175.0	-379.6	5,188.0	0.00	0.00	0.00
17,800.0	90.00	359.55	12,465.0	5,275.0	-380.4	5,287.9	0.00	0.00	0.00
17,900.0	90.00	359.55	12,465.0	5,375.0	-381.2	5,387.7	0.00	0.00	0.00
18,000.0	90.00	359.55	12,465.0	5,475.0	-382.0	5,487.6	0.00	0.00	0.00
18,100.0	90.00	359.55	12,465.0	5,575.0	-382.7	5,587.5	0.00	0.00	0.00
18,200.0	90.00	359.55	12,465.0	5,675.0	-383.5	5,687.4	0.00	0.00	0.00
18,300.0	90.00	359.55	12,465.0	5,775.0	-384.3	5,787.3	0.00	0.00	0.00
18,400.0	90.00	359.55	12,465.0	5,875.0	-385.1	5,887.2	0.00	0.00	0.00
18,500.0	90.00	359.55	12,465.0	5,974.9	-385.9	5,987.1	0.00	0.00	0.00
18,600.0	90.00	359.55	12,465.0	6,074.9	-386.7	6,087.0	0.00	0.00	0.00
18,700.0	90.00	359.55	12,465.0	6,174.9	-387.5	6,186.9	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: #707H
Wellbore: OH
Design: Plan #.01

Local Co-ordinate Reference: Well #707H
TVD Reference: KB @ 3360.0usft
MD Reference: KB @ 3360.0usft
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)
18,800.0	90.00	359.55	12,465.0	6,274.9	-388.2	6,286.8	0.00	0.00	0.00
18,900.0	90.00	359.55	12,465.0	6,374.9	-389.0	6,386.7	0.00	0.00	0.00
19,000.0	90.00	359.55	12,465.0	6,474.9	-389.8	6,486.6	0.00	0.00	0.00
19,100.0	90.00	359.55	12,465.0	6,574.9	-390.6	6,586.4	0.00	0.00	0.00
19,200.0	90.00	359.55	12,465.0	6,674.9	-391.4	6,686.3	0.00	0.00	0.00
19,300.0	90.00	359.55	12,465.0	6,774.9	-392.2	6,786.2	0.00	0.00	0.00
19,400.0	90.00	359.55	12,465.0	6,874.9	-393.0	6,886.1	0.00	0.00	0.00
19,500.0	90.00	359.55	12,465.0	6,974.9	-393.7	6,986.0	0.00	0.00	0.00
19,600.0	90.00	359.55	12,465.0	7,074.9	-394.5	7,085.9	0.00	0.00	0.00
19,700.0	90.00	359.55	12,465.0	7,174.9	-395.3	7,185.8	0.00	0.00	0.00
19,787.1	90.00	359.55	12,465.0	7,262.0	-396.0	7,272.8	0.00	0.00	0.00

PBHL (CG 35 Fed Com 707H)
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 (CG 35 Fed Com 707H)	0.00	0.00	12,465.0	26.0	-339.0	365,015.00	746,762.00	32° 0' 3.753 N	103° 32' 14.336 W
- plan misses target center by 39.5usft at 12561.1usft MD (12428.5 TVD, 41.1 N, -337.7 E)									
- Point									
PBHL (CG 35 Fed Com 707H)	0.00	0.01	12,465.0	7,262.0	-396.0	372,251.00	746,705.00	32° 1' 15.363 N	103° 32' 14.379 W
- plan hits target center									
- Point									



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: CACTUS

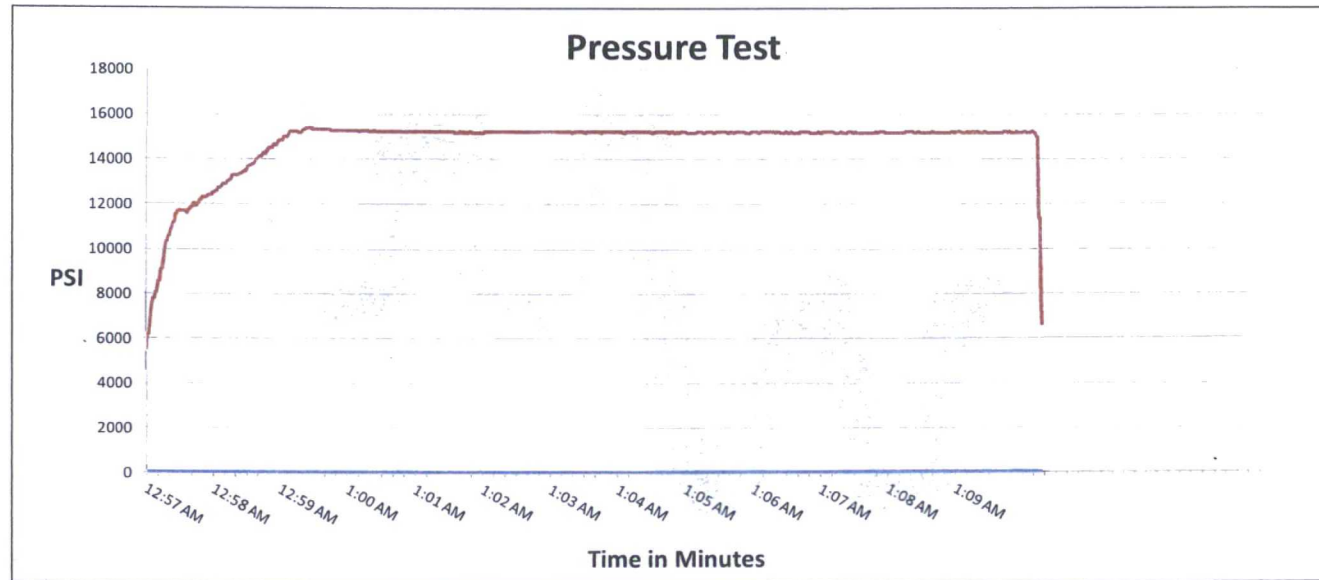
SALES ORDER# 90067

Hose Specifications

<u>Hose Type</u>	<u>Length</u>
C & K	35'
<u>I.D.</u>	<u>O.D.</u>
4"	8"
<u>Working Pressure</u>	<u>Burst Pressure</u>
10000 PSI	Standard Safety Multiplier Applies

Verification

<u>Type of Fitting</u>	<u>Coupling Method</u>
4 1/16 10K	Swage
<u>Die Size</u>	<u>Final O.D.</u>
6.62"	6.68"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
	90067



Test Pressure
15000 PSI

Time Held at Test Pressure
11 1/4 Minutes

Actual Burst Pressure

Peak Pressure
15439 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Bobby Fink

Approved By: Mendi Jackson

Bobby Fink

Mendi Jackson