



Lea County, NM (NAD 83 NME)

Hearthrob 17 state #707H

Plan #0.1

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: #707H

KB = 25 @ 3594.0usft 3569.0
 Northing 441557.00 Easting 771830.00 Latitude 32° 12' 42.193 N Longitude 103° 35' 17.059 W

SECTION DETAILS

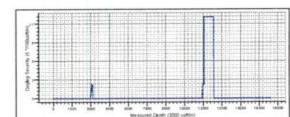
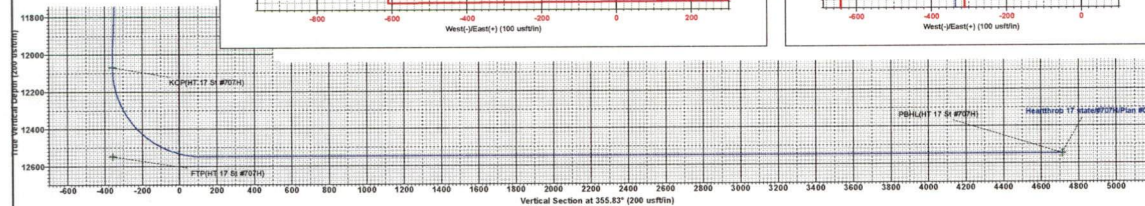
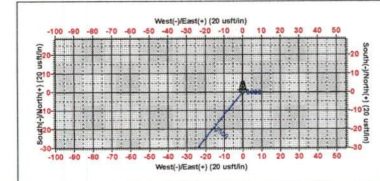
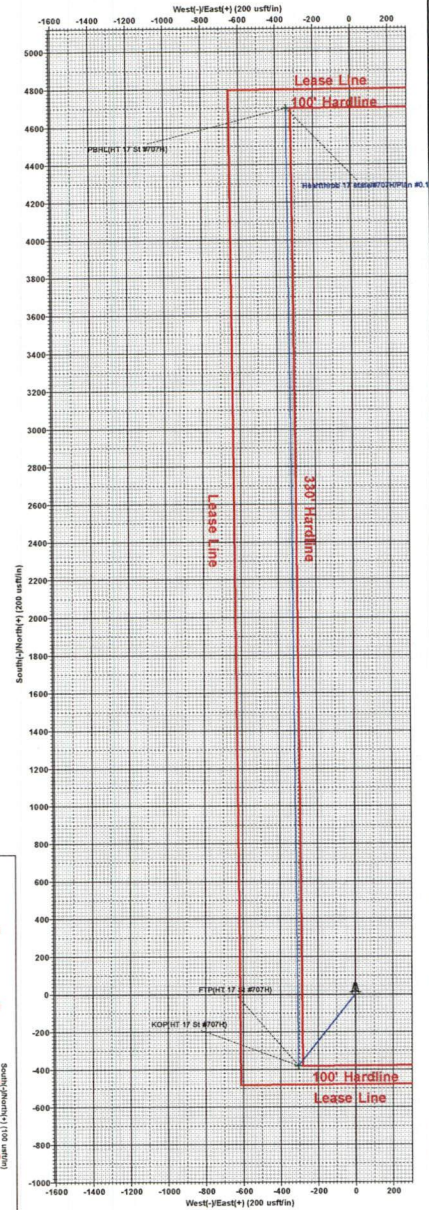
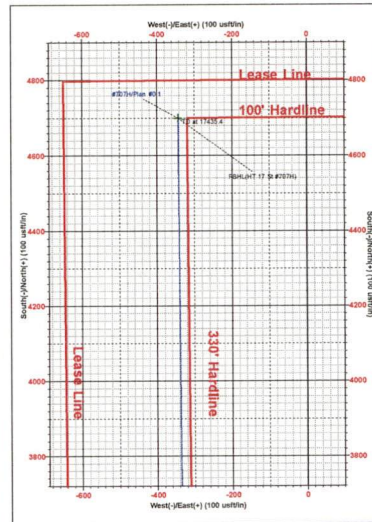
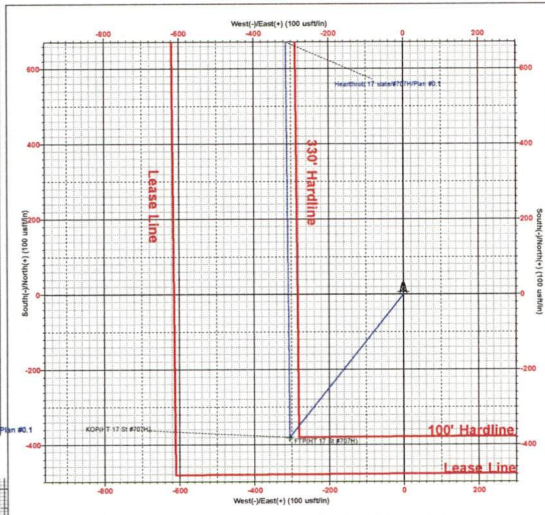
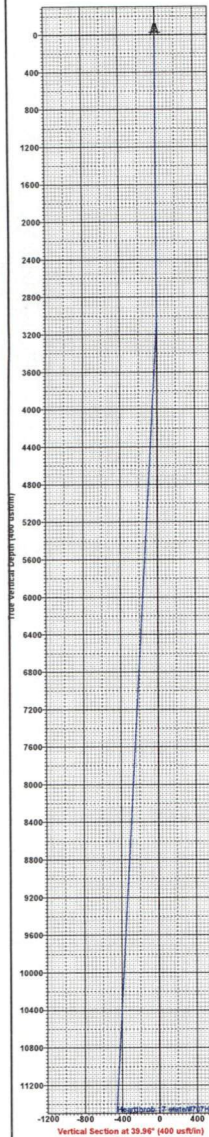
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3156.5	3.13	218.75	3156.4	-3.3	-2.7	2.00	218.75	-3.1	
4	11926.3	3.13	218.75	11913.1	-376.7	-302.3	0.00	0.00	-353.7	
5	12082.7	0.00	0.00	12069.5	-380.0	-305.0	2.00	180.00	-356.8	KOP(HT 17 St #707H)
6	12832.7	90.00	359.57	12547.0	97.4	-308.6	12.00	359.57	119.6	
7	17435.4	90.00	359.57	12547.0	4700.0	-343.0	0.00	0.00	4712.5	PBHL(HT 17 St #707H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(HT 17 St #707H)	12069.5	-380.0	-305.0	441177.00	771525.00
FTP(HT 17 St #707H)	12547.0	-380.0	-305.0	441177.00	771525.00
PBHL(HT 17 St #707H)	12547.0	4700.0	-343.0	446257.00	771487.00



Lea County, NM (NAD 83 NME)
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#707H

OH

Plan: Plan #0.1

Standard Planning Report

23 August, 2018

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3594.0usft
MD Reference: KB = 25 @ 3594.0usft
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 Heartthrob 17 state

Site Position: Northing: 441,886.00 usft Latitude: 32° 12' 45.730 N
From: Map Easting: 767,698.00 usft Longitude: 103° 36' 5.126 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.39 °

Well #707H

Well Position +N/-S -329.0 usft Northing: 441,557.00 usft Latitude: 32° 12' 42.193 N
+E/-W 4,132.0 usft Easting: 771,830.00 usft Longitude: 103° 35' 17.059 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,569.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/23/2018	6.83	60.03	47,806.34977873

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	355.83

Plan Survey Tool Program Date 8/23/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,435.4 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,156.5	3.13	218.75	3,156.4	-3.3	-2.7	2.00	2.00	0.00	218.75	
11,926.3	3.13	218.75	11,913.1	-376.7	-302.3	0.00	0.00	0.00	0.00	
12,082.7	0.00	0.01	12,069.5	-380.0	-305.0	2.00	-2.00	0.00	180.00	KOP(HT 17 St #707H)
12,832.7	90.00	359.57	12,547.0	97.4	-308.6	12.00	12.00	-0.06	359.57	
17,435.4	90.00	359.57	12,547.0	4,700.0	-343.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #707H)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Heartthrob 17 state
 Well: #707H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3594.0usft
 MD Reference: KB = 25 @ 3594.0usft
 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	2.00	218.75	3,100.0	-1.4	-1.1	-1.3	2.00	2.00	0.00
3,156.5	3.13	218.75	3,156.4	-3.3	-2.7	-3.1	2.00	2.00	0.00
3,200.0	3.13	218.75	3,199.9	-5.2	-4.2	-4.9	0.00	0.00	0.00
3,300.0	3.13	218.75	3,299.7	-9.4	-7.6	-8.9	0.00	0.00	0.00
3,400.0	3.13	218.75	3,399.6	-13.7	-11.0	-12.9	0.00	0.00	0.00
3,500.0	3.13	218.75	3,499.4	-18.0	-14.4	-16.9	0.00	0.00	0.00
3,600.0	3.13	218.75	3,599.3	-22.2	-17.8	-20.9	0.00	0.00	0.00
3,700.0	3.13	218.75	3,699.1	-26.5	-21.2	-24.9	0.00	0.00	0.00
3,800.0	3.13	218.75	3,799.0	-30.7	-24.7	-28.9	0.00	0.00	0.00
3,900.0	3.13	218.75	3,898.8	-35.0	-28.1	-32.8	0.00	0.00	0.00
4,000.0	3.13	218.75	3,998.7	-39.2	-31.5	-36.8	0.00	0.00	0.00
4,100.0	3.13	218.75	4,098.5	-43.5	-34.9	-40.8	0.00	0.00	0.00
4,200.0	3.13	218.75	4,198.4	-47.8	-38.3	-44.8	0.00	0.00	0.00
4,300.0	3.13	218.75	4,298.2	-52.0	-41.7	-48.8	0.00	0.00	0.00
4,400.0	3.13	218.75	4,398.1	-56.3	-45.2	-52.8	0.00	0.00	0.00
4,500.0	3.13	218.75	4,497.9	-60.5	-48.6	-56.8	0.00	0.00	0.00
4,600.0	3.13	218.75	4,597.8	-64.8	-52.0	-60.8	0.00	0.00	0.00
4,700.0	3.13	218.75	4,697.6	-69.0	-55.4	-64.8	0.00	0.00	0.00
4,800.0	3.13	218.75	4,797.5	-73.3	-58.8	-68.8	0.00	0.00	0.00
4,900.0	3.13	218.75	4,897.3	-77.6	-62.2	-72.8	0.00	0.00	0.00
5,000.0	3.13	218.75	4,997.2	-81.8	-65.7	-76.8	0.00	0.00	0.00
5,100.0	3.13	218.75	5,097.0	-86.1	-69.1	-80.8	0.00	0.00	0.00
5,200.0	3.13	218.75	5,196.9	-90.3	-72.5	-84.8	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Heartthrob 17 state
 Well: #707H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3594.0usft
 MD Reference: KB = 25 @ 3594.0usft
 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)
5,300.0	3.13	218.75	5,296.7	-94.6	-75.9	-88.8	0.00	0.00	0.00
5,400.0	3.13	218.75	5,396.6	-98.8	-79.3	-92.8	0.00	0.00	0.00
5,500.0	3.13	218.75	5,496.4	-103.1	-82.7	-96.8	0.00	0.00	0.00
5,600.0	3.13	218.75	5,596.3	-107.4	-86.2	-100.8	0.00	0.00	0.00
5,700.0	3.13	218.75	5,696.1	-111.6	-89.6	-104.8	0.00	0.00	0.00
5,800.0	3.13	218.75	5,796.0	-115.9	-93.0	-108.8	0.00	0.00	0.00
5,900.0	3.13	218.75	5,895.8	-120.1	-96.4	-112.8	0.00	0.00	0.00
6,000.0	3.13	218.75	5,995.7	-124.4	-99.8	-116.8	0.00	0.00	0.00
6,100.0	3.13	218.75	6,095.5	-128.6	-103.3	-120.8	0.00	0.00	0.00
6,200.0	3.13	218.75	6,195.4	-132.9	-106.7	-124.8	0.00	0.00	0.00
6,300.0	3.13	218.75	6,295.2	-137.2	-110.1	-128.8	0.00	0.00	0.00
6,400.0	3.13	218.75	6,395.1	-141.4	-113.5	-132.8	0.00	0.00	0.00
6,500.0	3.13	218.75	6,494.9	-145.7	-116.9	-136.8	0.00	0.00	0.00
6,600.0	3.13	218.75	6,594.8	-149.9	-120.3	-140.8	0.00	0.00	0.00
6,700.0	3.13	218.75	6,694.6	-154.2	-123.8	-144.8	0.00	0.00	0.00
6,800.0	3.13	218.75	6,794.5	-158.4	-127.2	-148.8	0.00	0.00	0.00
6,900.0	3.13	218.75	6,894.3	-162.7	-130.6	-152.8	0.00	0.00	0.00
7,000.0	3.13	218.75	6,994.2	-167.0	-134.0	-156.8	0.00	0.00	0.00
7,100.0	3.13	218.75	7,094.0	-171.2	-137.4	-160.8	0.00	0.00	0.00
7,200.0	3.13	218.75	7,193.9	-175.5	-140.8	-164.8	0.00	0.00	0.00
7,300.0	3.13	218.75	7,293.7	-179.7	-144.3	-168.7	0.00	0.00	0.00
7,400.0	3.13	218.75	7,393.6	-184.0	-147.7	-172.7	0.00	0.00	0.00
7,500.0	3.13	218.75	7,493.4	-188.2	-151.1	-176.7	0.00	0.00	0.00
7,600.0	3.13	218.75	7,593.3	-192.5	-154.5	-180.7	0.00	0.00	0.00
7,700.0	3.13	218.75	7,693.1	-196.8	-157.9	-184.7	0.00	0.00	0.00
7,800.0	3.13	218.75	7,793.0	-201.0	-161.3	-188.7	0.00	0.00	0.00
7,900.0	3.13	218.75	7,892.8	-205.3	-164.8	-192.7	0.00	0.00	0.00
8,000.0	3.13	218.75	7,992.7	-209.5	-168.2	-196.7	0.00	0.00	0.00
8,100.0	3.13	218.75	8,092.6	-213.8	-171.6	-200.7	0.00	0.00	0.00
8,200.0	3.13	218.75	8,192.4	-218.0	-175.0	-204.7	0.00	0.00	0.00
8,300.0	3.13	218.75	8,292.3	-222.3	-178.4	-208.7	0.00	0.00	0.00
8,400.0	3.13	218.75	8,392.1	-226.6	-181.8	-212.7	0.00	0.00	0.00
8,500.0	3.13	218.75	8,492.0	-230.8	-185.3	-216.7	0.00	0.00	0.00
8,600.0	3.13	218.75	8,591.8	-235.1	-188.7	-220.7	0.00	0.00	0.00
8,700.0	3.13	218.75	8,691.7	-239.3	-192.1	-224.7	0.00	0.00	0.00
8,800.0	3.13	218.75	8,791.5	-243.6	-195.5	-228.7	0.00	0.00	0.00
8,900.0	3.13	218.75	8,891.4	-247.8	-198.9	-232.7	0.00	0.00	0.00
9,000.0	3.13	218.75	8,991.2	-252.1	-202.3	-236.7	0.00	0.00	0.00
9,100.0	3.13	218.75	9,091.1	-256.4	-205.8	-240.7	0.00	0.00	0.00
9,200.0	3.13	218.75	9,190.9	-260.6	-209.2	-244.7	0.00	0.00	0.00
9,300.0	3.13	218.75	9,290.8	-264.9	-212.6	-248.7	0.00	0.00	0.00
9,400.0	3.13	218.75	9,390.6	-269.1	-216.0	-252.7	0.00	0.00	0.00
9,500.0	3.13	218.75	9,490.5	-273.4	-219.4	-256.7	0.00	0.00	0.00
9,600.0	3.13	218.75	9,590.3	-277.6	-222.8	-260.7	0.00	0.00	0.00
9,700.0	3.13	218.75	9,690.2	-281.9	-226.3	-264.7	0.00	0.00	0.00
9,800.0	3.13	218.75	9,790.0	-286.2	-229.7	-268.7	0.00	0.00	0.00
9,900.0	3.13	218.75	9,889.9	-290.4	-233.1	-272.7	0.00	0.00	0.00
10,000.0	3.13	218.75	9,989.7	-294.7	-236.5	-276.7	0.00	0.00	0.00
10,100.0	3.13	218.75	10,089.6	-298.9	-239.9	-280.7	0.00	0.00	0.00
10,200.0	3.13	218.75	10,189.4	-303.2	-243.3	-284.7	0.00	0.00	0.00
10,300.0	3.13	218.75	10,289.3	-307.4	-246.8	-288.7	0.00	0.00	0.00
10,400.0	3.13	218.75	10,389.1	-311.7	-250.2	-292.7	0.00	0.00	0.00
10,500.0	3.13	218.75	10,489.0	-316.0	-253.6	-296.7	0.00	0.00	0.00
10,600.0	3.13	218.75	10,588.8	-320.2	-257.0	-300.7	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #707H
KB = 25 @ 3594.0usft
KB = 25 @ 3594.0usft
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)
10,700.0	3.13	218.75	10,688.7	-324.5	-260.4	-304.6	0.00	0.00	0.00
10,800.0	3.13	218.75	10,788.5	-328.7	-263.8	-308.6	0.00	0.00	0.00
10,900.0	3.13	218.75	10,888.4	-333.0	-267.3	-312.6	0.00	0.00	0.00
11,000.0	3.13	218.75	10,988.2	-337.2	-270.7	-316.6	0.00	0.00	0.00
11,100.0	3.13	218.75	11,088.1	-341.5	-274.1	-320.6	0.00	0.00	0.00
11,200.0	3.13	218.75	11,187.9	-345.8	-277.5	-324.6	0.00	0.00	0.00
11,300.0	3.13	218.75	11,287.8	-350.0	-280.9	-328.6	0.00	0.00	0.00
11,400.0	3.13	218.75	11,387.6	-354.3	-284.3	-332.6	0.00	0.00	0.00
11,500.0	3.13	218.75	11,487.5	-358.5	-287.8	-336.6	0.00	0.00	0.00
11,600.0	3.13	218.75	11,587.3	-362.8	-291.2	-340.6	0.00	0.00	0.00
11,700.0	3.13	218.75	11,687.2	-367.0	-294.6	-344.6	0.00	0.00	0.00
11,800.0	3.13	218.75	11,787.0	-371.3	-298.0	-348.6	0.00	0.00	0.00
11,900.0	3.13	218.75	11,886.9	-375.6	-301.4	-352.6	0.00	0.00	0.00
11,926.3	3.13	218.75	11,913.1	-376.7	-302.3	-353.7	0.00	0.00	0.00
12,000.0	1.65	218.75	11,986.8	-379.1	-304.3	-355.9	2.00	-2.00	0.00
12,082.7	0.00	0.01	12,069.5	-380.0	-305.0	-356.8	2.00	-2.00	0.00
KOP(HT 17 St #707H)									
12,100.0	2.07	359.57	12,086.8	-379.7	-305.0	-356.5	12.00	12.00	0.00
12,125.0	5.07	359.57	12,111.7	-378.1	-305.0	-354.9	12.00	12.00	0.00
12,150.0	8.07	359.57	12,136.5	-375.3	-305.0	-352.1	12.00	12.00	0.00
12,175.0	11.07	359.57	12,161.2	-371.1	-305.1	-347.9	12.00	12.00	0.00
12,200.0	14.07	359.57	12,185.6	-365.7	-305.1	-342.5	12.00	12.00	0.00
12,225.0	17.07	359.57	12,209.7	-359.0	-305.2	-335.8	12.00	12.00	0.00
12,250.0	20.07	359.57	12,233.4	-351.0	-305.2	-327.9	12.00	12.00	0.00
12,275.0	23.07	359.57	12,256.6	-341.8	-305.3	-318.7	12.00	12.00	0.00
12,300.0	26.07	359.57	12,279.3	-331.4	-305.4	-308.3	12.00	12.00	0.00
12,325.0	29.07	359.57	12,301.5	-319.8	-305.4	-296.8	12.00	12.00	0.00
12,350.0	32.07	359.57	12,323.0	-307.1	-305.5	-284.1	12.00	12.00	0.00
12,375.0	35.07	359.57	12,343.9	-293.3	-305.6	-270.3	12.00	12.00	0.00
12,400.0	38.07	359.57	12,363.9	-278.4	-305.8	-255.4	12.00	12.00	0.00
12,425.0	41.07	359.57	12,383.2	-262.5	-305.9	-239.5	12.00	12.00	0.00
12,450.0	44.07	359.57	12,401.6	-245.6	-306.0	-222.7	12.00	12.00	0.00
12,455.8	44.77	359.57	12,405.7	-241.5	-306.0	-218.6	12.00	12.00	0.00
FTP(HT 17 St #707H)									
12,475.0	47.07	359.57	12,419.1	-227.7	-306.1	-204.8	12.00	12.00	0.00
12,500.0	50.07	359.57	12,435.6	-209.0	-306.3	-186.1	12.00	12.00	0.00
12,525.0	53.07	359.57	12,451.2	-189.4	-306.4	-166.6	12.00	12.00	0.00
12,550.0	56.07	359.57	12,465.7	-169.0	-306.6	-146.3	12.00	12.00	0.00
12,575.0	59.07	359.57	12,479.1	-147.9	-306.7	-125.2	12.00	12.00	0.00
12,600.0	62.07	359.57	12,491.4	-126.2	-306.9	-103.5	12.00	12.00	0.00
12,625.0	65.07	359.57	12,502.5	-103.8	-307.1	-81.2	12.00	12.00	0.00
12,650.0	68.07	359.57	12,512.4	-80.8	-307.2	-58.3	12.00	12.00	0.00
12,675.0	71.07	359.57	12,521.1	-57.4	-307.4	-34.9	12.00	12.00	0.00
12,700.0	74.07	359.57	12,528.6	-33.6	-307.6	-11.1	12.00	12.00	0.00
12,725.0	77.07	359.57	12,534.9	-9.4	-307.8	13.1	12.00	12.00	0.00
12,750.0	80.07	359.57	12,539.8	15.1	-308.0	37.5	12.00	12.00	0.00
12,775.0	83.07	359.57	12,543.5	39.9	-308.1	62.2	12.00	12.00	0.00
12,800.0	86.07	359.57	12,545.8	64.7	-308.3	87.0	12.00	12.00	0.00
12,825.0	89.07	359.57	12,546.9	89.7	-308.5	111.9	12.00	12.00	0.00
12,832.7	90.00	359.57	12,547.0	97.4	-308.6	119.6	12.00	12.00	0.00
12,900.0	90.00	359.57	12,547.0	164.7	-309.1	186.8	0.00	0.00	0.00
13,000.0	90.00	359.57	12,547.0	264.7	-309.8	286.6	0.00	0.00	0.00
13,100.0	90.00	359.57	12,547.0	364.7	-310.6	386.4	0.00	0.00	0.00
13,200.0	90.00	359.57	12,547.0	464.7	-311.3	486.1	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #707H
KB = 25 @ 3594.0usft
KB = 25 @ 3594.0usft
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)
13,300.0	90.00	359.57	12,547.0	564.7	-312.1	585.9	0.00	0.00	0.00
13,400.0	90.00	359.57	12,547.0	664.7	-312.8	685.7	0.00	0.00	0.00
13,500.0	90.00	359.57	12,547.0	764.7	-313.6	785.5	0.00	0.00	0.00
13,600.0	90.00	359.57	12,547.0	864.7	-314.3	885.3	0.00	0.00	0.00
13,700.0	90.00	359.57	12,547.0	964.7	-315.1	985.1	0.00	0.00	0.00
13,800.0	90.00	359.57	12,547.0	1,064.7	-315.8	1,084.9	0.00	0.00	0.00
13,900.0	90.00	359.57	12,547.0	1,164.7	-316.6	1,184.6	0.00	0.00	0.00
14,000.0	90.00	359.57	12,547.0	1,264.7	-317.3	1,284.4	0.00	0.00	0.00
14,100.0	90.00	359.57	12,547.0	1,364.7	-318.1	1,384.2	0.00	0.00	0.00
14,200.0	90.00	359.57	12,547.0	1,464.7	-318.8	1,484.0	0.00	0.00	0.00
14,300.0	90.00	359.57	12,547.0	1,564.7	-319.5	1,583.8	0.00	0.00	0.00
14,400.0	90.00	359.57	12,547.0	1,664.7	-320.3	1,683.6	0.00	0.00	0.00
14,500.0	90.00	359.57	12,547.0	1,764.7	-321.0	1,783.4	0.00	0.00	0.00
14,600.0	90.00	359.57	12,547.0	1,864.7	-321.8	1,883.1	0.00	0.00	0.00
14,700.0	90.00	359.57	12,547.0	1,964.7	-322.5	1,982.9	0.00	0.00	0.00
14,800.0	90.00	359.57	12,547.0	2,064.7	-323.3	2,082.7	0.00	0.00	0.00
14,900.0	90.00	359.57	12,547.0	2,164.7	-324.0	2,182.5	0.00	0.00	0.00
15,000.0	90.00	359.57	12,547.0	2,264.7	-324.8	2,282.3	0.00	0.00	0.00
15,100.0	90.00	359.57	12,547.0	2,364.7	-325.5	2,382.1	0.00	0.00	0.00
15,200.0	90.00	359.57	12,547.0	2,464.7	-326.3	2,481.9	0.00	0.00	0.00
15,300.0	90.00	359.57	12,547.0	2,564.7	-327.0	2,581.7	0.00	0.00	0.00
15,400.0	90.00	359.57	12,547.0	2,664.6	-327.8	2,681.4	0.00	0.00	0.00
15,500.0	90.00	359.57	12,547.0	2,764.6	-328.5	2,781.2	0.00	0.00	0.00
15,600.0	90.00	359.57	12,547.0	2,864.6	-329.3	2,881.0	0.00	0.00	0.00
15,700.0	90.00	359.57	12,547.0	2,964.6	-330.0	2,980.8	0.00	0.00	0.00
15,800.0	90.00	359.57	12,547.0	3,064.6	-330.8	3,080.6	0.00	0.00	0.00
15,900.0	90.00	359.57	12,547.0	3,164.6	-331.5	3,180.4	0.00	0.00	0.00
16,000.0	90.00	359.57	12,547.0	3,264.6	-332.3	3,280.2	0.00	0.00	0.00
16,100.0	90.00	359.57	12,547.0	3,364.6	-333.0	3,379.9	0.00	0.00	0.00
16,200.0	90.00	359.57	12,547.0	3,464.6	-333.8	3,479.7	0.00	0.00	0.00
16,300.0	90.00	359.57	12,547.0	3,564.6	-334.5	3,579.5	0.00	0.00	0.00
16,400.0	90.00	359.57	12,547.0	3,664.6	-335.3	3,679.3	0.00	0.00	0.00
16,500.0	90.00	359.57	12,547.0	3,764.6	-336.0	3,779.1	0.00	0.00	0.00
16,600.0	90.00	359.57	12,547.0	3,864.6	-336.8	3,878.9	0.00	0.00	0.00
16,700.0	90.00	359.57	12,547.0	3,964.6	-337.5	3,978.7	0.00	0.00	0.00
16,800.0	90.00	359.57	12,547.0	4,064.6	-338.2	4,078.4	0.00	0.00	0.00
16,900.0	90.00	359.57	12,547.0	4,164.6	-339.0	4,178.2	0.00	0.00	0.00
17,000.0	90.00	359.57	12,547.0	4,264.6	-339.7	4,278.0	0.00	0.00	0.00
17,100.0	90.00	359.57	12,547.0	4,364.6	-340.5	4,377.8	0.00	0.00	0.00
17,200.0	90.00	359.57	12,547.0	4,464.6	-341.2	4,477.6	0.00	0.00	0.00
17,300.0	90.00	359.57	12,547.0	4,564.6	-342.0	4,577.4	0.00	0.00	0.00
17,400.0	90.00	359.57	12,547.0	4,664.6	-342.7	4,677.2	0.00	0.00	0.00
17,435.4	90.00	359.57	12,547.0	4,700.0	-343.0	4,712.5	0.00	0.00	0.00

PBHL(HT 17 St #707H)

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Heartthrob 17 state
 Well: #707H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference: KB = 25 @ 3594.0usft
 MD Reference: KB = 25 @ 3594.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(HT 17 St #707H) - plan hits target center - Point	0.00	0.01	12,069.5	-380.0	-305.0	441,177.00	771,525.00	32° 12' 38.454 N	103° 35' 20.640 W
FTP(HT 17 St #707H) - plan misses target center by 197.8usft at 12455.8usft MD (12405.7 TVD, -241.5 N, -306.0 E) - Point	0.00	0.01	12,547.0	-380.0	-305.0	441,177.00	771,525.00	32° 12' 38.454 N	103° 35' 20.640 W
PBHL(HT 17 St #707H) - plan hits target center - Point	0.00	0.01	12,547.0	4,700.0	-343.0	446,257.00	771,487.00	32° 13' 28.724 N	103° 35' 20.673 W