



Lea County, NM (NAD 83 NME)

Heartthrob 17 state #708H

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: #708H

KB = 25 @ 3593.0usft 3568.0
Northing 441562.00 Easting 771862.00 Latitude 32° 12' 42.240 N Longitude 103° 35' 16.686 W

SECTION DETAILS

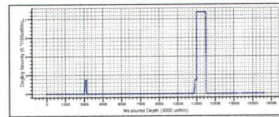
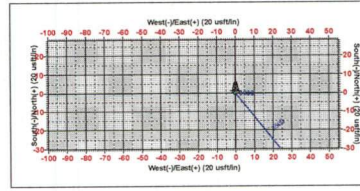
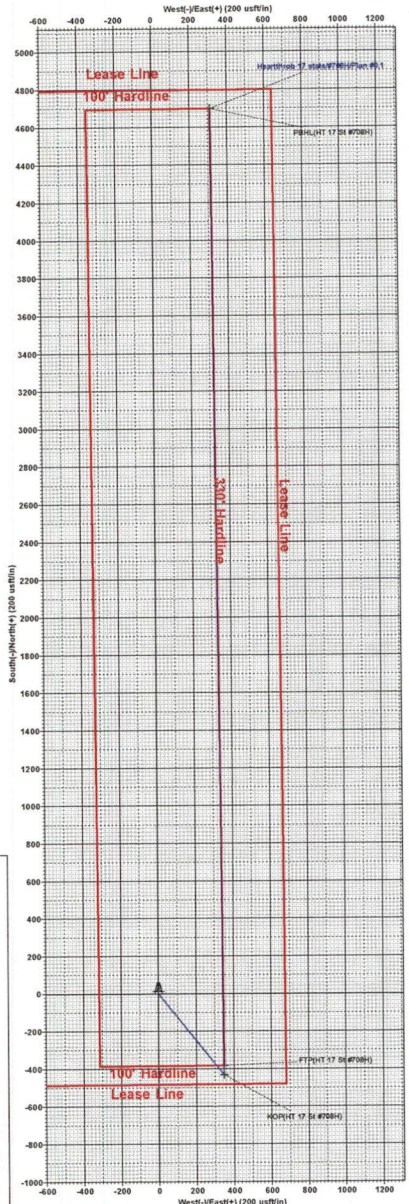
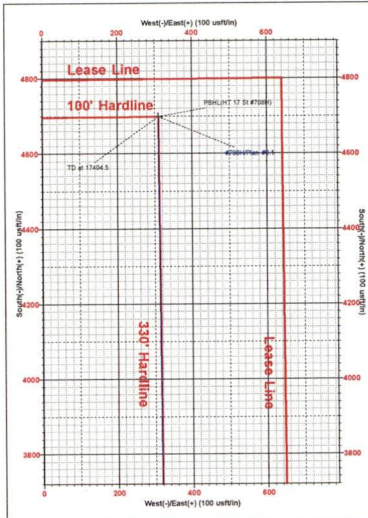
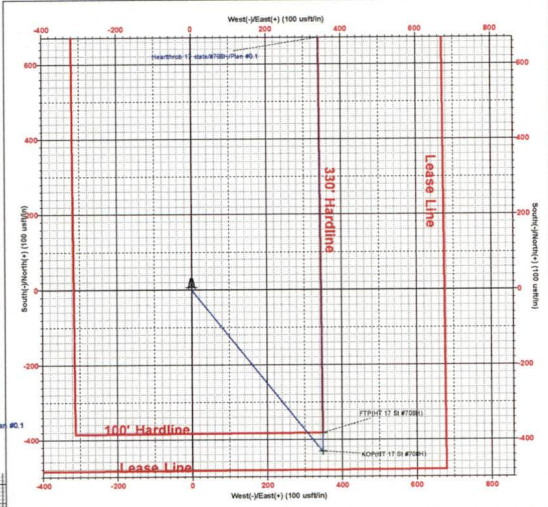
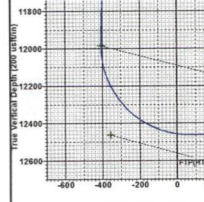
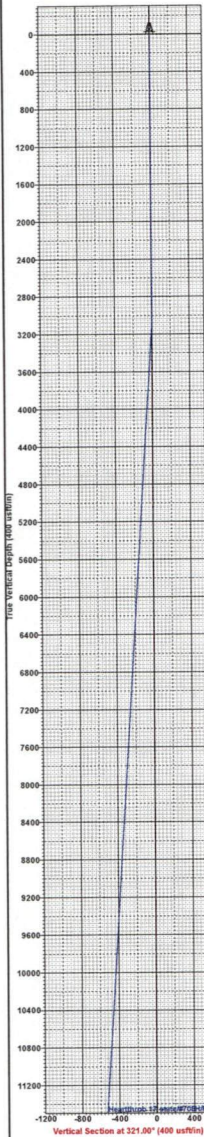
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3180.2	3.60	141.00	3180.1	-4.4	3.6	2.00	141.00	-4.2	
4	11821.6	3.60	141.00	11804.4	-426.6	345.4	0.00	0.00	-402.9	KOP(HT 17 St #708H)
5	12001.8	0.00	0.00	11984.5	-431.0	349.0	2.00	180.00	-407.0	
6	12751.8	90.00	359.58	12462.0	46.4	345.5	12.00	359.58	69.2	PBHL(HT 17 St #708H)
7	17404.5	90.00	359.58	12462.0	4699.0	311.0	0.00	0.00	4709.3	

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 #708H)	11984.5	-431.0	349.0	441131.00	772211.00
FTP(HT 17 St #708H)	12462.0	-381.0	349.0	441181.00	772211.00
PBHL(HT 17 St #708H)	12462.0	4699.0	311.0	446251.00	772173.00



Lea County, NM (NAD 83 NME)
Heartthrob 17 state #708H
Plan #0.1
8/23/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#708H

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: #708H
Wellbore: OH
Design: Plan #0.1

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

Well #708H
KB = 25 @ 3593.0usft
KB = 25 @ 3593.0usft
Grid
Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

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 #708H

Well Position +N/-S -324.0 usft Northing: 441,562.00 usft Latitude: 32° 12' 42.240 N
+E/-W 4,164.0 usft Easting: 771,862.00 usft Longitude: 103° 35' 16.686 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,568.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/23/2018	6.83	60.03	47,806.37571692

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	3.79

Plan Survey Tool Program Date 8/23/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,404.5 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	
3,180.2	3.60	141.00	3,180.1	-4.4	3.6	2.00	2.00	0.00	141.00	
11,821.6	3.60	141.00	11,804.4	-426.6	345.4	0.00	0.00	0.00	0.00	
12,001.8	0.00	0.01	11,984.5	-431.0	349.0	2.00	-2.00	0.00	180.00	KOP(HT 17 St #708H
12,751.8	90.00	359.58	12,462.0	46.4	345.5	12.00	12.00	-0.06	359.58	
17,404.5	90.00	359.58	12,462.0	4,699.0	311.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #708H



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #708H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3593.0usft
MD Reference: KB = 25 @ 3593.0usft
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	141.00	3,100.0	-1.4	1.1	-1.3	2.00	2.00	0.00
3,180.2	3.60	141.00	3,180.1	-4.4	3.6	-4.2	2.00	2.00	0.00
3,200.0	3.60	141.00	3,199.8	-5.4	4.3	-5.1	0.00	0.00	0.00
3,300.0	3.60	141.00	3,299.6	-10.3	8.3	-9.7	0.00	0.00	0.00
3,400.0	3.60	141.00	3,399.4	-15.1	12.3	-14.3	0.00	0.00	0.00
3,500.0	3.60	141.00	3,499.2	-20.0	16.2	-18.9	0.00	0.00	0.00
3,600.0	3.60	141.00	3,599.1	-24.9	20.2	-23.5	0.00	0.00	0.00
3,700.0	3.60	141.00	3,698.9	-29.8	24.1	-28.1	0.00	0.00	0.00
3,800.0	3.60	141.00	3,798.7	-34.7	28.1	-32.8	0.00	0.00	0.00
3,900.0	3.60	141.00	3,898.5	-39.6	32.0	-37.4	0.00	0.00	0.00
4,000.0	3.60	141.00	3,998.3	-44.5	36.0	-42.0	0.00	0.00	0.00
4,100.0	3.60	141.00	4,098.1	-49.3	40.0	-46.6	0.00	0.00	0.00
4,200.0	3.60	141.00	4,197.9	-54.2	43.9	-51.2	0.00	0.00	0.00
4,300.0	3.60	141.00	4,297.7	-59.1	47.9	-55.8	0.00	0.00	0.00
4,400.0	3.60	141.00	4,397.5	-64.0	51.8	-60.4	0.00	0.00	0.00
4,500.0	3.60	141.00	4,497.3	-68.9	55.8	-65.1	0.00	0.00	0.00
4,600.0	3.60	141.00	4,597.1	-73.8	59.7	-69.7	0.00	0.00	0.00
4,700.0	3.60	141.00	4,696.9	-78.7	63.7	-74.3	0.00	0.00	0.00
4,800.0	3.60	141.00	4,796.7	-83.5	67.6	-78.9	0.00	0.00	0.00
4,900.0	3.60	141.00	4,896.5	-88.4	71.6	-83.5	0.00	0.00	0.00
5,000.0	3.60	141.00	4,996.3	-93.3	75.6	-88.1	0.00	0.00	0.00
5,100.0	3.60	141.00	5,096.1	-98.2	79.5	-92.7	0.00	0.00	0.00
5,200.0	3.60	141.00	5,195.9	-103.1	83.5	-97.3	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: #708H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
 TVD Reference: KB = 25 @ 3593.0usft
 MD Reference: KB = 25 @ 3593.0usft
 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	3.60	141.00	5,295.7	-108.0	87.4	-102.0	0.00	0.00	0.00
5,400.0	3.60	141.00	5,395.5	-112.9	91.4	-106.6	0.00	0.00	0.00
5,500.0	3.60	141.00	5,495.3	-117.7	95.3	-111.2	0.00	0.00	0.00
5,600.0	3.60	141.00	5,595.1	-122.6	99.3	-115.8	0.00	0.00	0.00
5,700.0	3.60	141.00	5,694.9	-127.5	103.3	-120.4	0.00	0.00	0.00
5,800.0	3.60	141.00	5,794.7	-132.4	107.2	-125.0	0.00	0.00	0.00
5,900.0	3.60	141.00	5,894.5	-137.3	111.2	-129.6	0.00	0.00	0.00
6,000.0	3.60	141.00	5,994.3	-142.2	115.1	-134.3	0.00	0.00	0.00
6,100.0	3.60	141.00	6,094.1	-147.1	119.1	-138.9	0.00	0.00	0.00
6,200.0	3.60	141.00	6,193.9	-151.9	123.0	-143.5	0.00	0.00	0.00
6,300.0	3.60	141.00	6,293.7	-156.8	127.0	-148.1	0.00	0.00	0.00
6,400.0	3.60	141.00	6,393.5	-161.7	130.9	-152.7	0.00	0.00	0.00
6,500.0	3.60	141.00	6,493.3	-166.6	134.9	-157.3	0.00	0.00	0.00
6,600.0	3.60	141.00	6,593.1	-171.5	138.9	-161.9	0.00	0.00	0.00
6,700.0	3.60	141.00	6,692.9	-176.4	142.8	-166.6	0.00	0.00	0.00
6,800.0	3.60	141.00	6,792.7	-181.3	146.8	-171.2	0.00	0.00	0.00
6,900.0	3.60	141.00	6,892.5	-186.1	150.7	-175.8	0.00	0.00	0.00
7,000.0	3.60	141.00	6,992.3	-191.0	154.7	-180.4	0.00	0.00	0.00
7,100.0	3.60	141.00	7,092.1	-195.9	158.6	-185.0	0.00	0.00	0.00
7,200.0	3.60	141.00	7,191.9	-200.8	162.6	-189.6	0.00	0.00	0.00
7,300.0	3.60	141.00	7,291.7	-205.7	166.6	-194.2	0.00	0.00	0.00
7,400.0	3.60	141.00	7,391.5	-210.6	170.5	-198.8	0.00	0.00	0.00
7,500.0	3.60	141.00	7,491.3	-215.5	174.5	-203.5	0.00	0.00	0.00
7,600.0	3.60	141.00	7,591.1	-220.3	178.4	-208.1	0.00	0.00	0.00
7,700.0	3.60	141.00	7,690.9	-225.2	182.4	-212.7	0.00	0.00	0.00
7,800.0	3.60	141.00	7,790.7	-230.1	186.3	-217.3	0.00	0.00	0.00
7,900.0	3.60	141.00	7,890.5	-235.0	190.3	-221.9	0.00	0.00	0.00
8,000.0	3.60	141.00	7,990.3	-239.9	194.2	-226.5	0.00	0.00	0.00
8,100.0	3.60	141.00	8,090.1	-244.8	198.2	-231.1	0.00	0.00	0.00
8,200.0	3.60	141.00	8,190.0	-249.7	202.2	-235.8	0.00	0.00	0.00
8,300.0	3.60	141.00	8,289.8	-254.5	206.1	-240.4	0.00	0.00	0.00
8,400.0	3.60	141.00	8,389.6	-259.4	210.1	-245.0	0.00	0.00	0.00
8,500.0	3.60	141.00	8,489.4	-264.3	214.0	-249.6	0.00	0.00	0.00
8,600.0	3.60	141.00	8,589.2	-269.2	218.0	-254.2	0.00	0.00	0.00
8,700.0	3.60	141.00	8,689.0	-274.1	221.9	-258.8	0.00	0.00	0.00
8,800.0	3.60	141.00	8,788.8	-279.0	225.9	-263.4	0.00	0.00	0.00
8,900.0	3.60	141.00	8,888.6	-283.9	229.9	-268.1	0.00	0.00	0.00
9,000.0	3.60	141.00	8,988.4	-288.7	233.8	-272.7	0.00	0.00	0.00
9,100.0	3.60	141.00	9,088.2	-293.6	237.8	-277.3	0.00	0.00	0.00
9,200.0	3.60	141.00	9,188.0	-298.5	241.7	-281.9	0.00	0.00	0.00
9,300.0	3.60	141.00	9,287.8	-303.4	245.7	-286.5	0.00	0.00	0.00
9,400.0	3.60	141.00	9,387.6	-308.3	249.6	-291.1	0.00	0.00	0.00
9,500.0	3.60	141.00	9,487.4	-313.2	253.6	-295.7	0.00	0.00	0.00
9,600.0	3.60	141.00	9,587.2	-318.1	257.5	-300.4	0.00	0.00	0.00
9,700.0	3.60	141.00	9,687.0	-322.9	261.5	-305.0	0.00	0.00	0.00
9,800.0	3.60	141.00	9,786.8	-327.8	265.5	-309.6	0.00	0.00	0.00
9,900.0	3.60	141.00	9,886.6	-332.7	269.4	-314.2	0.00	0.00	0.00
10,000.0	3.60	141.00	9,986.4	-337.6	273.4	-318.8	0.00	0.00	0.00
10,100.0	3.60	141.00	10,086.2	-342.5	277.3	-323.4	0.00	0.00	0.00
10,200.0	3.60	141.00	10,186.0	-347.4	281.3	-328.0	0.00	0.00	0.00
10,300.0	3.60	141.00	10,285.8	-352.3	285.2	-332.6	0.00	0.00	0.00
10,400.0	3.60	141.00	10,385.6	-357.1	289.2	-337.3	0.00	0.00	0.00
10,500.0	3.60	141.00	10,485.4	-362.0	293.1	-341.9	0.00	0.00	0.00
10,600.0	3.60	141.00	10,585.2	-366.9	297.1	-346.5	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: #708H
Wellbore: OH
Design: Plan #0.1

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

Well #708H
KB = 25 @ 3593.0usft
KB = 25 @ 3593.0usft
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	3.60	141.00	10,685.0	-371.8	301.1	-351.1	0.00	0.00	0.00
10,800.0	3.60	141.00	10,784.8	-376.7	305.0	-355.7	0.00	0.00	0.00
10,900.0	3.60	141.00	10,884.6	-381.6	309.0	-360.3	0.00	0.00	0.00
11,000.0	3.60	141.00	10,984.4	-386.5	312.9	-364.9	0.00	0.00	0.00
11,100.0	3.60	141.00	11,084.2	-391.3	316.9	-369.6	0.00	0.00	0.00
11,200.0	3.60	141.00	11,184.0	-396.2	320.8	-374.2	0.00	0.00	0.00
11,300.0	3.60	141.00	11,283.8	-401.1	324.8	-378.8	0.00	0.00	0.00
11,400.0	3.60	141.00	11,383.6	-406.0	328.8	-383.4	0.00	0.00	0.00
11,500.0	3.60	141.00	11,483.4	-410.9	332.7	-388.0	0.00	0.00	0.00
11,600.0	3.60	141.00	11,583.2	-415.8	336.7	-392.6	0.00	0.00	0.00
11,700.0	3.60	141.00	11,683.0	-420.7	340.6	-397.2	0.00	0.00	0.00
11,800.0	3.60	141.00	11,782.8	-425.5	344.6	-401.9	0.00	0.00	0.00
11,821.6	3.60	141.00	11,804.4	-426.6	345.4	-402.9	0.00	0.00	0.00
11,900.0	2.04	141.00	11,882.7	-429.6	347.9	-405.7	2.00	-2.00	0.00
12,001.8	0.00	0.01	11,984.5	-431.0	349.0	-407.0	2.00	-2.00	0.00
KOP(HT 17 St #708H)									
12,025.0	2.78	359.58	12,007.7	-430.4	349.0	-406.5	12.00	12.00	0.00
12,050.0	5.78	359.58	12,032.6	-428.6	349.0	-404.6	12.00	12.00	0.00
12,075.0	8.78	359.58	12,057.4	-425.4	349.0	-401.4	12.00	12.00	0.00
12,100.0	11.78	359.58	12,082.0	-420.9	348.9	-397.0	12.00	12.00	0.00
12,125.0	14.78	359.58	12,106.3	-415.2	348.9	-391.3	12.00	12.00	0.00
12,150.0	17.78	359.58	12,130.3	-408.2	348.8	-384.3	12.00	12.00	0.00
12,175.0	20.78	359.58	12,153.9	-399.9	348.8	-376.0	12.00	12.00	0.00
12,200.0	23.78	359.58	12,177.0	-390.5	348.7	-366.6	12.00	12.00	0.00
12,225.0	26.78	359.58	12,199.6	-379.8	348.6	-355.9	12.00	12.00	0.00
12,250.0	29.78	359.58	12,221.6	-367.9	348.5	-344.1	12.00	12.00	0.00
12,275.0	32.78	359.58	12,243.0	-355.0	348.4	-331.2	12.00	12.00	0.00
12,300.0	35.78	359.58	12,263.7	-340.9	348.3	-317.1	12.00	12.00	0.00
12,325.0	38.78	359.58	12,283.6	-325.7	348.2	-302.0	12.00	12.00	0.00
12,350.0	41.78	359.58	12,302.6	-309.6	348.1	-285.9	12.00	12.00	0.00
12,375.0	44.78	359.58	12,320.8	-292.4	348.0	-268.8	12.00	12.00	0.00
12,400.0	47.78	359.58	12,338.1	-274.4	347.8	-250.8	11.99	11.99	0.00
FTP(HT 17 St #708H)									
12,425.0	50.78	359.58	12,354.4	-255.4	347.7	-231.9	12.01	12.01	0.00
12,450.0	53.78	359.58	12,369.7	-235.7	347.6	-212.2	12.00	12.00	0.00
12,475.0	56.78	359.58	12,383.9	-215.1	347.4	-191.7	12.00	12.00	0.00
12,500.0	59.78	359.58	12,397.1	-193.9	347.2	-170.5	12.00	12.00	0.00
12,525.0	62.78	359.58	12,409.1	-171.9	347.1	-148.6	12.00	12.00	0.00
12,550.0	65.78	359.58	12,419.9	-149.4	346.9	-126.2	12.00	12.00	0.00
12,575.0	68.78	359.58	12,429.6	-126.4	346.7	-103.2	12.00	12.00	0.00
12,600.0	71.78	359.58	12,438.0	-102.8	346.6	-79.7	12.00	12.00	0.00
12,625.0	74.78	359.58	12,445.2	-78.9	346.4	-55.8	12.00	12.00	0.00
12,650.0	77.78	359.58	12,451.1	-54.6	346.2	-31.6	12.00	12.00	0.00
12,675.0	80.78	359.58	12,455.8	-30.0	346.0	-7.1	12.00	12.00	0.00
12,700.0	83.78	359.58	12,459.2	-5.3	345.8	17.6	12.00	12.00	0.00
12,725.0	86.78	359.58	12,461.2	19.6	345.7	42.4	12.00	12.00	0.00
12,751.8	90.00	359.58	12,462.0	46.4	345.5	69.2	12.00	12.00	0.00
12,800.0	90.00	359.58	12,462.0	94.6	345.1	117.2	0.00	0.00	0.00
12,900.0	90.00	359.58	12,462.0	194.6	344.4	216.9	0.00	0.00	0.00
13,000.0	90.00	359.58	12,462.0	294.6	343.6	316.7	0.00	0.00	0.00
13,100.0	90.00	359.58	12,462.0	394.6	342.9	416.4	0.00	0.00	0.00
13,200.0	90.00	359.58	12,462.0	494.6	342.1	516.1	0.00	0.00	0.00
13,300.0	90.00	359.58	12,462.0	594.6	341.4	615.9	0.00	0.00	0.00
13,400.0	90.00	359.58	12,462.0	694.6	340.7	715.6	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: #708H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3593.0usft
MD Reference: KB = 25 @ 3593.0usft
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	359.58	12,462.0	794.6	339.9	815.3	0.00	0.00	0.00
13,600.0	90.00	359.58	12,462.0	894.6	339.2	915.0	0.00	0.00	0.00
13,700.0	90.00	359.58	12,462.0	994.6	338.4	1,014.8	0.00	0.00	0.00
13,800.0	90.00	359.58	12,462.0	1,094.6	337.7	1,114.5	0.00	0.00	0.00
13,900.0	90.00	359.58	12,462.0	1,194.6	337.0	1,214.2	0.00	0.00	0.00
14,000.0	90.00	359.58	12,462.0	1,294.6	336.2	1,314.0	0.00	0.00	0.00
14,100.0	90.00	359.58	12,462.0	1,394.6	335.5	1,413.7	0.00	0.00	0.00
14,200.0	90.00	359.58	12,462.0	1,494.6	334.7	1,513.4	0.00	0.00	0.00
14,300.0	90.00	359.58	12,462.0	1,594.6	334.0	1,613.2	0.00	0.00	0.00
14,400.0	90.00	359.58	12,462.0	1,694.6	333.3	1,712.9	0.00	0.00	0.00
14,500.0	90.00	359.58	12,462.0	1,794.6	332.5	1,812.6	0.00	0.00	0.00
14,600.0	90.00	359.58	12,462.0	1,894.6	331.8	1,912.3	0.00	0.00	0.00
14,700.0	90.00	359.58	12,462.0	1,994.6	331.0	2,012.1	0.00	0.00	0.00
14,800.0	90.00	359.58	12,462.0	2,094.6	330.3	2,111.8	0.00	0.00	0.00
14,900.0	90.00	359.58	12,462.0	2,194.6	329.6	2,211.5	0.00	0.00	0.00
15,000.0	90.00	359.58	12,462.0	2,294.6	328.8	2,311.3	0.00	0.00	0.00
15,100.0	90.00	359.58	12,462.0	2,394.6	328.1	2,411.0	0.00	0.00	0.00
15,200.0	90.00	359.58	12,462.0	2,494.6	327.3	2,510.7	0.00	0.00	0.00
15,300.0	90.00	359.58	12,462.0	2,594.6	326.6	2,610.5	0.00	0.00	0.00
15,400.0	90.00	359.58	12,462.0	2,694.5	325.8	2,710.2	0.00	0.00	0.00
15,500.0	90.00	359.58	12,462.0	2,794.5	325.1	2,809.9	0.00	0.00	0.00
15,600.0	90.00	359.58	12,462.0	2,894.5	324.4	2,909.6	0.00	0.00	0.00
15,700.0	90.00	359.58	12,462.0	2,994.5	323.6	3,009.4	0.00	0.00	0.00
15,800.0	90.00	359.58	12,462.0	3,094.5	322.9	3,109.1	0.00	0.00	0.00
15,900.0	90.00	359.58	12,462.0	3,194.5	322.1	3,208.8	0.00	0.00	0.00
16,000.0	90.00	359.58	12,462.0	3,294.5	321.4	3,308.6	0.00	0.00	0.00
16,100.0	90.00	359.58	12,462.0	3,394.5	320.7	3,408.3	0.00	0.00	0.00
16,200.0	90.00	359.58	12,462.0	3,494.5	319.9	3,508.0	0.00	0.00	0.00
16,300.0	90.00	359.58	12,462.0	3,594.5	319.2	3,607.8	0.00	0.00	0.00
16,400.0	90.00	359.58	12,462.0	3,694.5	318.4	3,707.5	0.00	0.00	0.00
16,500.0	90.00	359.58	12,462.0	3,794.5	317.7	3,807.2	0.00	0.00	0.00
16,600.0	90.00	359.58	12,462.0	3,894.5	317.0	3,906.9	0.00	0.00	0.00
16,700.0	90.00	359.58	12,462.0	3,994.5	316.2	4,006.7	0.00	0.00	0.00
16,800.0	90.00	359.58	12,462.0	4,094.5	315.5	4,106.4	0.00	0.00	0.00
16,900.0	90.00	359.58	12,462.0	4,194.5	314.7	4,206.1	0.00	0.00	0.00
17,000.0	90.00	359.58	12,462.0	4,294.5	314.0	4,305.9	0.00	0.00	0.00
17,100.0	90.00	359.58	12,462.0	4,394.5	313.3	4,405.6	0.00	0.00	0.00
17,200.0	90.00	359.58	12,462.0	4,494.5	312.5	4,505.3	0.00	0.00	0.00
17,300.0	90.00	359.58	12,462.0	4,594.5	311.8	4,605.1	0.00	0.00	0.00
17,404.5	90.00	359.58	12,462.0	4,699.0	311.0	4,709.3	0.00	0.00	0.00

PBHL(HT 17 St #708H)

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #708H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3593.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3593.0usft
Site:	Heartthrob 17 state	North Reference:	Grid
Well:	#708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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 #708H) - plan hits target center - Point	0.00	0.01	11,984.5	-431.0	349.0	441,131.00	772,211.00	32° 12' 37.952 N	103° 35' 12.659 W
PBHL(HT 17 St #708H) - plan hits target center - Point	0.00	0.01	12,462.0	4,699.0	311.0	446,261.00	772,173.00	32° 13' 28.717 N	103° 35' 12.687 W
FTP(HT 17 St #708H) - plan misses target center by 163.5usft at 12400.0usft MD (12338.1 TVD, -274.4 N, 347.8 E) - Point	0.00	0.01	12,462.0	-381.0	349.0	441,181.00	772,211.00	32° 12' 38.446 N	103° 35' 12.655 W