30-025-45143

eog resources

Lea County, NM (NAD 83 NME)

Heartthrob 17 state #708H

Plan #0.2

Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.43°

Magnetic Field
Strength: 47806.4nT
Dip Angle: 60.03°
Date: 8/23/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.44°
To convert a Magnetic Direction to a True Direction, Add 6.83° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

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

3568.0
KB = 25 @ 3593.0usft

Northing	Easting	Latitude	Longitude
441601.00	771748.00	32° 12' 42.634 N	103° 35' 18.010 W

SECTION DETAILS

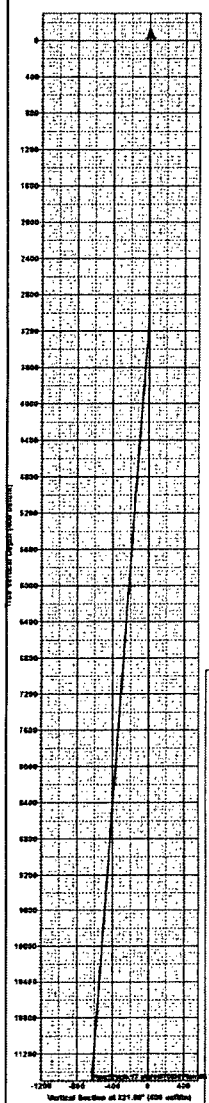
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3215.1	4.30	135.43	3214.9	-5.8	5.7	2.00	135.43	-5.2	
4	11794.0	4.30	135.43	11769.6	-464.2	457.3	0.00	0.00	-420.6	
5	12009.1	0.00	0.01	11984.5	-470.0	463.0	2.00	180.00	-426.0	KOP(HT 17 St #708H)
6	12759.1	90.00	359.58	12462.0	7.4	459.5	12.00	359.58	49.1	
7	17411.8	90.00	359.58	12462.0	4660.0	425.0	0.00	0.00	4679.3	PBHL(HT 17 St #708H)

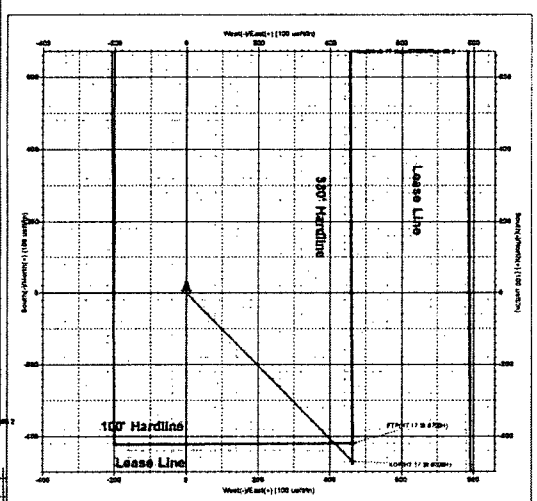
CASING DETAILS

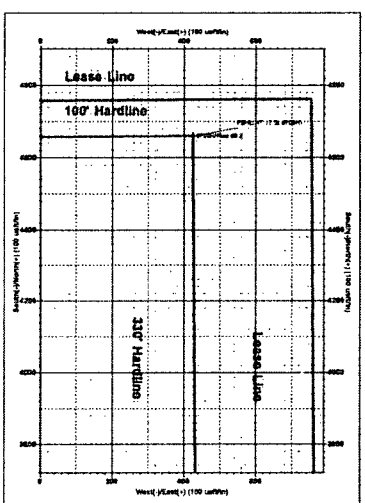
No casing data is available

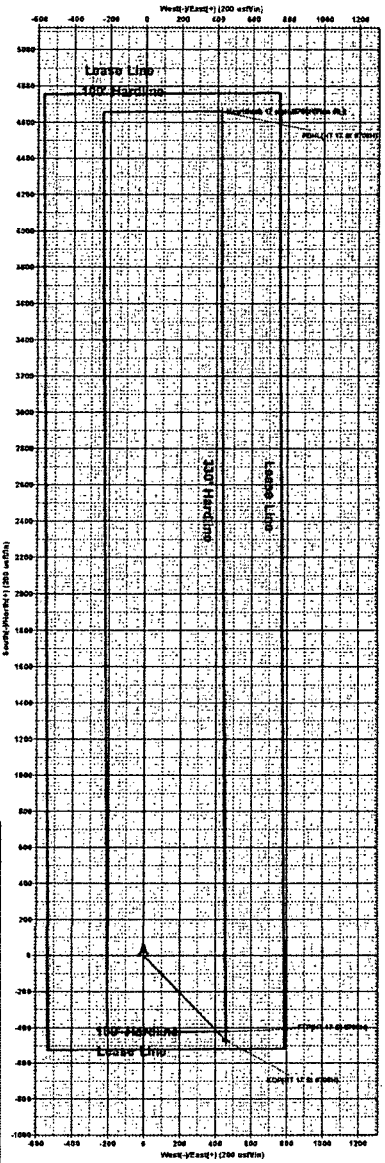
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

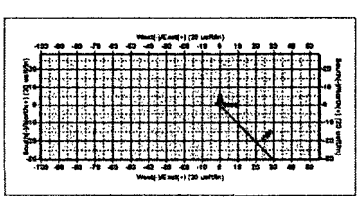
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(HT 17 St #708H)	11984.5	-470.0	463.0	441131.00	772211.00
FTP(HT 17 St #708H)	12462.0	-420.0	463.0	441181.00	772211.00
PBHL(HT 17 St #708H)	12462.0	4660.0	425.0	446261.00	772173.00

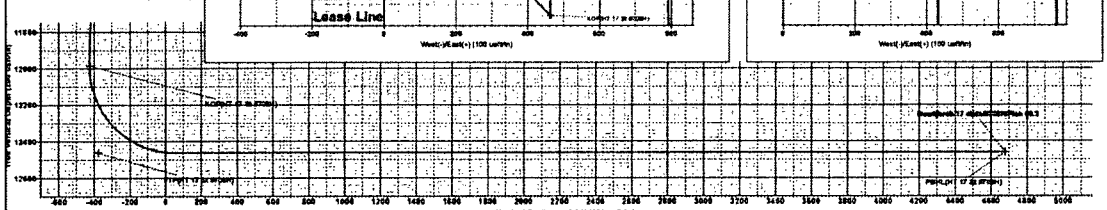


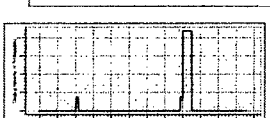












eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Heartthrob 17 state
#708H

OH

Plan: Plan #0.2

Standard Planning Report

25 September, 2018

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 #0.2		

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	#708H					
Well Position	**+N/-S**	-285.0 usft	**Northing:**	441,601.00 usft	**Latitude:**	32° 12' 42.634 N
	+E/-W	4,050.0 usft	**Easting:**	771,748.00 usft	**Longitude:**	103° 35' 18.010 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	47,806.40206505

Design	Plan #0.2				
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	5.21	

Plan Survey Tool Program **Date** 9/25/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,411.8	Plan #0.2 (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	
3,215.1	4.30	135.43	3,214.9	-5.8	5.7	2.00	2.00	0.00	135.43	
11,794.0	4.30	135.43	11,769.6	-464.2	457.3	0.00	0.00	0.00	0.00	
12,009.1	0.00	0.01	11,984.5	-470.0	463.0	2.00	-2.00	0.00	180.00	KOP(HT 17 St #708H
12,759.1	90.00	359.58	12,462.0	7.4	459.5	12.00	12.00	-0.06	359.58	
17,411.8	90.00	359.58	12,462.0	4,660.0	425.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #708I

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 #0.2		

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	135.43	3,100.0	-1.2	1.2	-1.1	2.00	2.00	0.00
3,200.0	4.00	135.43	3,199.8	-5.0	4.9	-4.5	2.00	2.00	0.00
3,215.1	4.30	135.43	3,214.9	-5.8	5.7	-5.2	2.00	2.00	0.00
3,300.0	4.30	135.43	3,299.6	-10.3	10.1	-9.3	0.00	0.00	0.00
3,400.0	4.30	135.43	3,399.3	-15.6	15.4	-14.2	0.00	0.00	0.00
3,500.0	4.30	135.43	3,499.0	-21.0	20.7	-19.0	0.00	0.00	0.00
3,600.0	4.30	135.43	3,598.7	-26.3	25.9	-23.9	0.00	0.00	0.00
3,700.0	4.30	135.43	3,698.4	-31.7	31.2	-28.7	0.00	0.00	0.00
3,800.0	4.30	135.43	3,798.1	-37.0	36.5	-33.5	0.00	0.00	0.00
3,900.0	4.30	135.43	3,897.9	-42.4	41.7	-38.4	0.00	0.00	0.00
4,000.0	4.30	135.43	3,997.6	-47.7	47.0	-43.2	0.00	0.00	0.00
4,100.0	4.30	135.43	4,097.3	-53.0	52.3	-48.1	0.00	0.00	0.00
4,200.0	4.30	135.43	4,197.0	-58.4	57.5	-52.9	0.00	0.00	0.00
4,300.0	4.30	135.43	4,296.7	-63.7	62.8	-57.8	0.00	0.00	0.00
4,400.0	4.30	135.43	4,396.5	-69.1	68.0	-62.6	0.00	0.00	0.00
4,500.0	4.30	135.43	4,496.2	-74.4	73.3	-67.5	0.00	0.00	0.00
4,600.0	4.30	135.43	4,595.9	-79.8	78.6	-72.3	0.00	0.00	0.00
4,700.0	4.30	135.43	4,695.6	-85.1	83.8	-77.1	0.00	0.00	0.00
4,800.0	4.30	135.43	4,795.3	-90.5	89.1	-82.0	0.00	0.00	0.00
4,900.0	4.30	135.43	4,895.0	-95.8	94.4	-86.8	0.00	0.00	0.00
5,000.0	4.30	135.43	4,994.8	-101.1	99.6	-91.7	0.00	0.00	0.00
5,100.0	4.30	135.43	5,094.5	-106.5	104.9	-96.5	0.00	0.00	0.00
5,200.0	4.30	135.43	5,194.2	-111.8	110.2	-101.4	0.00	0.00	0.00

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 #0.2		

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	4.30	135.43	5,293.9	-117.2	115.4	-106.2	0.00	0.00	0.00
5,400.0	4.30	135.43	5,393.6	-122.5	120.7	-111.1	0.00	0.00	0.00
5,500.0	4.30	135.43	5,493.4	-127.9	126.0	-115.9	0.00	0.00	0.00
5,600.0	4.30	135.43	5,593.1	-133.2	131.2	-120.7	0.00	0.00	0.00
5,700.0	4.30	135.43	5,692.8	-138.6	136.5	-125.6	0.00	0.00	0.00
5,800.0	4.30	135.43	5,792.5	-143.9	141.8	-130.4	0.00	0.00	0.00
5,900.0	4.30	135.43	5,892.2	-149.2	147.0	-135.3	0.00	0.00	0.00
6,000.0	4.30	135.43	5,991.9	-154.6	152.3	-140.1	0.00	0.00	0.00
6,100.0	4.30	135.43	6,091.7	-159.9	157.6	-145.0	0.00	0.00	0.00
6,200.0	4.30	135.43	6,191.4	-165.3	162.8	-149.8	0.00	0.00	0.00
6,300.0	4.30	135.43	6,291.1	-170.6	168.1	-154.7	0.00	0.00	0.00
6,400.0	4.30	135.43	6,390.8	-176.0	173.3	-159.5	0.00	0.00	0.00
6,500.0	4.30	135.43	6,490.5	-181.3	178.6	-164.3	0.00	0.00	0.00
6,600.0	4.30	135.43	6,590.3	-186.7	183.9	-169.2	0.00	0.00	0.00
6,700.0	4.30	135.43	6,690.0	-192.0	189.1	-174.0	0.00	0.00	0.00
6,800.0	4.30	135.43	6,789.7	-197.3	194.4	-178.9	0.00	0.00	0.00
6,900.0	4.30	135.43	6,889.4	-202.7	199.7	-183.7	0.00	0.00	0.00
7,000.0	4.30	135.43	6,989.1	-208.0	204.9	-188.6	0.00	0.00	0.00
7,100.0	4.30	135.43	7,088.8	-213.4	210.2	-193.4	0.00	0.00	0.00
7,200.0	4.30	135.43	7,188.6	-218.7	215.5	-198.3	0.00	0.00	0.00
7,300.0	4.30	135.43	7,288.3	-224.1	220.7	-203.1	0.00	0.00	0.00
7,400.0	4.30	135.43	7,388.0	-229.4	226.0	-207.9	0.00	0.00	0.00
7,500.0	4.30	135.43	7,487.7	-234.8	231.3	-212.8	0.00	0.00	0.00
7,600.0	4.30	135.43	7,587.4	-240.1	236.5	-217.6	0.00	0.00	0.00
7,700.0	4.30	135.43	7,687.2	-245.4	241.8	-222.5	0.00	0.00	0.00
7,800.0	4.30	135.43	7,786.9	-250.8	247.1	-227.3	0.00	0.00	0.00
7,900.0	4.30	135.43	7,886.6	-256.1	252.3	-232.2	0.00	0.00	0.00
8,000.0	4.30	135.43	7,986.3	-261.5	257.6	-237.0	0.00	0.00	0.00
8,100.0	4.30	135.43	8,086.0	-266.8	262.9	-241.8	0.00	0.00	0.00
8,200.0	4.30	135.43	8,185.7	-272.2	268.1	-246.7	0.00	0.00	0.00
8,300.0	4.30	135.43	8,285.5	-277.5	273.4	-251.5	0.00	0.00	0.00
8,400.0	4.30	135.43	8,385.2	-282.9	278.6	-256.4	0.00	0.00	0.00
8,500.0	4.30	135.43	8,484.9	-288.2	283.9	-261.2	0.00	0.00	0.00
8,600.0	4.30	135.43	8,584.6	-293.5	289.2	-266.1	0.00	0.00	0.00
8,700.0	4.30	135.43	8,684.3	-298.9	294.4	-270.9	0.00	0.00	0.00
8,800.0	4.30	135.43	8,784.1	-304.2	299.7	-275.8	0.00	0.00	0.00
8,900.0	4.30	135.43	8,883.8	-309.6	305.0	-280.6	0.00	0.00	0.00
9,000.0	4.30	135.43	8,983.5	-314.9	310.2	-285.4	0.00	0.00	0.00
9,100.0	4.30	135.43	9,083.2	-320.3	315.5	-290.3	0.00	0.00	0.00
9,200.0	4.30	135.43	9,182.9	-325.6	320.8	-295.1	0.00	0.00	0.00
9,300.0	4.30	135.43	9,282.6	-331.0	326.0	-300.0	0.00	0.00	0.00
9,400.0	4.30	135.43	9,382.4	-336.3	331.3	-304.8	0.00	0.00	0.00
9,500.0	4.30	135.43	9,482.1	-341.6	336.6	-309.7	0.00	0.00	0.00
9,600.0	4.30	135.43	9,581.8	-347.0	341.8	-314.5	0.00	0.00	0.00
9,700.0	4.30	135.43	9,681.5	-352.3	347.1	-319.4	0.00	0.00	0.00
9,800.0	4.30	135.43	9,781.2	-357.7	352.4	-324.2	0.00	0.00	0.00
9,900.0	4.30	135.43	9,881.0	-363.0	357.6	-329.0	0.00	0.00	0.00
10,000.0	4.30	135.43	9,980.7	-368.4	362.9	-333.9	0.00	0.00	0.00
10,100.0	4.30	135.43	10,080.4	-373.7	368.1	-338.7	0.00	0.00	0.00
10,200.0	4.30	135.43	10,180.1	-379.1	373.4	-343.6	0.00	0.00	0.00
10,300.0	4.30	135.43	10,279.8	-384.4	378.7	-348.4	0.00	0.00	0.00
10,400.0	4.30	135.43	10,379.5	-389.7	383.9	-353.3	0.00	0.00	0.00
10,500.0	4.30	135.43	10,479.3	-395.1	389.2	-358.1	0.00	0.00	0.00
10,600.0	4.30	135.43	10,579.0	-400.4	394.5	-363.0	0.00	0.00	0.00

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 #0.2		

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	4.30	135.43	10,678.7	-405.8	399.7	-367.8	0.00	0.00	0.00
10,800.0	4.30	135.43	10,778.4	-411.1	405.0	-372.6	0.00	0.00	0.00
10,900.0	4.30	135.43	10,878.1	-416.5	410.3	-377.5	0.00	0.00	0.00
11,000.0	4.30	135.43	10,977.9	-421.8	415.5	-382.3	0.00	0.00	0.00
11,100.0	4.30	135.43	11,077.6	-427.2	420.8	-387.2	0.00	0.00	0.00
11,200.0	4.30	135.43	11,177.3	-432.5	426.1	-392.0	0.00	0.00	0.00
11,300.0	4.30	135.43	11,277.0	-437.8	431.3	-396.9	0.00	0.00	0.00
11,400.0	4.30	135.43	11,376.7	-443.2	436.6	-401.7	0.00	0.00	0.00
11,500.0	4.30	135.43	11,476.4	-448.5	441.9	-406.6	0.00	0.00	0.00
11,600.0	4.30	135.43	11,576.2	-453.9	447.1	-411.4	0.00	0.00	0.00
11,700.0	4.30	135.43	11,675.9	-459.2	452.4	-416.2	0.00	0.00	0.00
11,794.0	4.30	135.43	11,769.6	-464.2	457.3	-420.8	0.00	0.00	0.00
11,800.0	4.18	135.43	11,775.6	-464.6	457.6	-421.1	2.00	-2.00	0.00
11,900.0	2.18	135.43	11,875.4	-468.5	461.5	-424.7	2.00	-2.00	0.00
12,009.1	0.00	0.01	11,984.5	-470.0	463.0	-426.0	2.00	-2.00	0.00
KOP(HT 17 St #708H)									
12,025.0	1.91	359.58	12,000.4	-469.7	463.0	-425.7	12.00	12.00	0.00
12,050.0	4.91	359.58	12,025.4	-468.2	463.0	-424.3	12.00	12.00	0.00
12,075.0	7.91	359.58	12,050.2	-465.5	463.0	-421.5	12.00	12.00	0.00
12,100.0	10.91	359.58	12,074.9	-461.4	462.9	-417.4	12.00	12.00	0.00
12,125.0	13.91	359.58	12,099.3	-456.0	462.9	-412.1	12.00	12.00	0.00
12,150.0	16.91	359.58	12,123.4	-449.4	462.8	-405.5	12.00	12.00	0.00
12,175.0	19.91	359.58	12,147.1	-441.5	462.8	-397.6	12.00	12.00	0.00
12,200.0	22.91	359.58	12,170.4	-432.3	462.7	-388.5	12.00	12.00	0.00
12,225.0	25.91	359.58	12,193.1	-422.0	462.6	-378.2	12.00	12.00	0.00
12,250.0	28.91	359.58	12,215.3	-410.5	462.6	-366.8	12.00	12.00	0.00
12,275.0	31.91	359.58	12,236.9	-397.8	462.5	-354.2	12.00	12.00	0.00
12,300.0	34.91	359.58	12,257.7	-384.1	462.4	-340.5	12.00	12.00	0.00
12,325.0	37.91	359.58	12,277.9	-369.2	462.3	-325.7	12.00	12.00	0.00
12,350.0	40.91	359.58	12,297.2	-353.4	462.1	-309.9	12.00	12.00	0.00
12,375.0	43.91	359.58	12,315.6	-336.5	462.0	-293.2	12.00	12.00	0.00
12,400.0	46.91	359.58	12,333.2	-318.7	461.9	-275.4	12.00	12.00	0.00
12,409.8	48.08	359.58	12,339.8	-311.5	461.8	-268.3	12.00	12.00	0.00
FTP(HT 17 St #708H)									
12,425.0	49.91	359.58	12,349.8	-300.0	461.7	-256.8	12.00	12.00	0.00
12,450.0	52.91	359.58	12,365.4	-280.5	461.6	-237.4	12.00	12.00	0.00
12,475.0	55.91	359.58	12,379.9	-260.2	461.4	-217.2	12.00	12.00	0.00
12,500.0	58.91	359.58	12,393.4	-239.1	461.3	-196.2	12.00	12.00	0.00
12,525.0	61.91	359.58	12,405.7	-217.4	461.1	-174.6	12.00	12.00	0.00
12,550.0	64.91	359.58	12,416.9	-195.0	461.0	-152.3	12.00	12.00	0.00
12,575.0	67.91	359.58	12,426.9	-172.1	460.8	-129.5	12.00	12.00	0.00
12,600.0	70.91	359.58	12,435.7	-148.7	460.6	-106.2	12.00	12.00	0.00
12,625.0	73.91	359.58	12,443.3	-124.9	460.4	-82.5	12.00	12.00	0.00
12,650.0	76.91	359.58	12,449.6	-100.7	460.3	-58.5	12.00	12.00	0.00
12,675.0	79.91	359.58	12,454.6	-76.2	460.1	-34.1	12.00	12.00	0.00
12,700.0	82.91	359.58	12,458.3	-51.5	459.9	-9.5	12.00	12.00	0.00
12,725.0	85.91	359.58	12,460.7	-26.6	459.7	15.3	12.00	12.00	0.00
12,750.0	88.91	359.58	12,461.9	-1.6	459.5	40.1	12.00	12.00	0.00
12,759.1	90.00	359.58	12,462.0	7.4	459.5	49.1	12.00	12.00	0.00
12,800.0	90.00	359.58	12,462.0	48.4	459.2	89.9	0.00	0.00	0.00
12,900.0	90.00	359.58	12,462.0	148.4	458.4	189.4	0.00	0.00	0.00
13,000.0	90.00	359.58	12,462.0	248.4	457.7	288.9	0.00	0.00	0.00
13,100.0	90.00	359.58	12,462.0	348.4	456.9	388.4	0.00	0.00	0.00
13,200.0	90.00	359.58	12,462.0	448.4	456.2	487.9	0.00	0.00	0.00

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 #0.2		

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	359.58	12,462.0	548.4	455.5	587.5	0.00	0.00	0.00
13,400.0	90.00	359.58	12,462.0	648.4	454.7	687.0	0.00	0.00	0.00
13,500.0	90.00	359.58	12,462.0	748.4	454.0	786.5	0.00	0.00	0.00
13,600.0	90.00	359.58	12,462.0	848.3	453.2	886.0	0.00	0.00	0.00
13,700.0	90.00	359.58	12,462.0	948.3	452.5	985.5	0.00	0.00	0.00
13,800.0	90.00	359.58	12,462.0	1,048.3	451.8	1,085.0	0.00	0.00	0.00
13,900.0	90.00	359.58	12,462.0	1,148.3	451.0	1,184.6	0.00	0.00	0.00
14,000.0	90.00	359.58	12,462.0	1,248.3	450.3	1,284.1	0.00	0.00	0.00
14,100.0	90.00	359.58	12,462.0	1,348.3	449.5	1,383.6	0.00	0.00	0.00
14,200.0	90.00	359.58	12,462.0	1,448.3	448.8	1,483.1	0.00	0.00	0.00
14,300.0	90.00	359.58	12,462.0	1,548.3	448.0	1,582.6	0.00	0.00	0.00
14,400.0	90.00	359.58	12,462.0	1,648.3	447.3	1,682.1	0.00	0.00	0.00
14,500.0	90.00	359.58	12,462.0	1,748.3	446.6	1,781.7	0.00	0.00	0.00
14,600.0	90.00	359.58	12,462.0	1,848.3	445.8	1,881.2	0.00	0.00	0.00
14,700.0	90.00	359.58	12,462.0	1,948.3	445.1	1,980.7	0.00	0.00	0.00
14,800.0	90.00	359.58	12,462.0	2,048.3	444.3	2,080.2	0.00	0.00	0.00
14,900.0	90.00	359.58	12,462.0	2,148.3	443.6	2,179.7	0.00	0.00	0.00
15,000.0	90.00	359.58	12,462.0	2,248.3	442.9	2,279.2	0.00	0.00	0.00
15,100.0	90.00	359.58	12,462.0	2,348.3	442.1	2,378.8	0.00	0.00	0.00
15,200.0	90.00	359.58	12,462.0	2,448.3	441.4	2,478.3	0.00	0.00	0.00
15,300.0	90.00	359.58	12,462.0	2,548.3	440.6	2,577.8	0.00	0.00	0.00
15,400.0	90.00	359.58	12,462.0	2,648.3	439.9	2,677.3	0.00	0.00	0.00
15,500.0	90.00	359.58	12,462.0	2,748.3	439.2	2,776.8	0.00	0.00	0.00
15,600.0	90.00	359.58	12,462.0	2,848.3	438.4	2,876.3	0.00	0.00	0.00
15,700.0	90.00	359.58	12,462.0	2,948.3	437.7	2,975.9	0.00	0.00	0.00
15,800.0	90.00	359.58	12,462.0	3,048.3	436.9	3,075.4	0.00	0.00	0.00
15,900.0	90.00	359.58	12,462.0	3,148.3	436.2	3,174.9	0.00	0.00	0.00
16,000.0	90.00	359.58	12,462.0	3,248.3	435.5	3,274.4	0.00	0.00	0.00
16,100.0	90.00	359.58	12,462.0	3,348.3	434.7	3,373.9	0.00	0.00	0.00
16,200.0	90.00	359.58	12,462.0	3,448.3	434.0	3,473.4	0.00	0.00	0.00
16,300.0	90.00	359.58	12,462.0	3,548.3	433.2	3,573.0	0.00	0.00	0.00
16,400.0	90.00	359.58	12,462.0	3,648.3	432.5	3,672.5	0.00	0.00	0.00
16,500.0	90.00	359.58	12,462.0	3,748.3	431.8	3,772.0	0.00	0.00	0.00
16,600.0	90.00	359.58	12,462.0	3,848.3	431.0	3,871.5	0.00	0.00	0.00
16,700.0	90.00	359.58	12,462.0	3,948.3	430.3	3,971.0	0.00	0.00	0.00
16,800.0	90.00	359.58	12,462.0	4,048.3	429.5	4,070.5	0.00	0.00	0.00
16,900.0	90.00	359.58	12,462.0	4,148.3	428.8	4,170.1	0.00	0.00	0.00
17,000.0	90.00	359.58	12,462.0	4,248.3	428.0	4,269.6	0.00	0.00	0.00
17,100.0	90.00	359.58	12,462.0	4,348.3	427.3	4,369.1	0.00	0.00	0.00
17,200.0	90.00	359.58	12,462.0	4,448.2	426.6	4,468.6	0.00	0.00	0.00
17,300.0	90.00	359.58	12,462.0	4,548.2	425.8	4,568.1	0.00	0.00	0.00
17,400.0	90.00	359.58	12,462.0	4,648.2	425.1	4,667.6	0.00	0.00	0.00
17,411.8	90.00	359.58	12,462.0	4,660.0	425.0	4,679.3	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 #0.2		

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	-470.0	463.0	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	4,660.0	425.0	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 163.4usft at 12409.8usft MD (12339.8 TVD, -311.5 N, 461.8 E) - Point	0.00	0.01	12,462.0	-420.0	463.0	441,181.00	772,211.00	32° 12' 38.446 N	103° 35' 12.655 W