



Lea County, NM (NAD 83 NME)

Heartthrob 17 state #701H

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: #701H

KB = 25 @ 3570.0usft 3545.0
Northing 441886.00 Easting 767563.00 Latitude 32° 12' 45.732 N Longitude 105° 36' 5.534 W

SECTION DETAILS

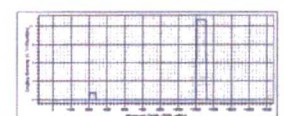
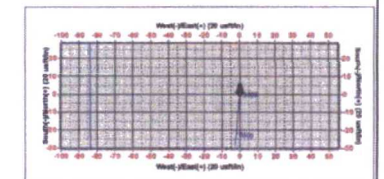
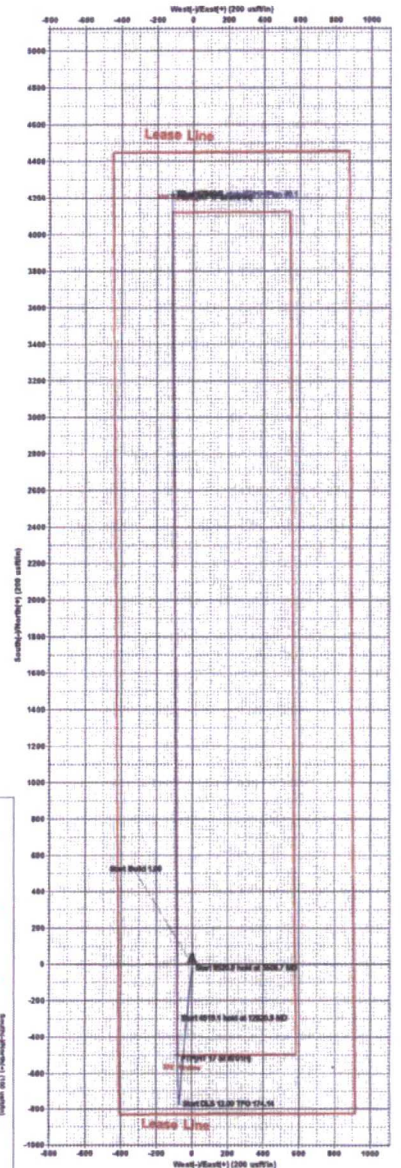
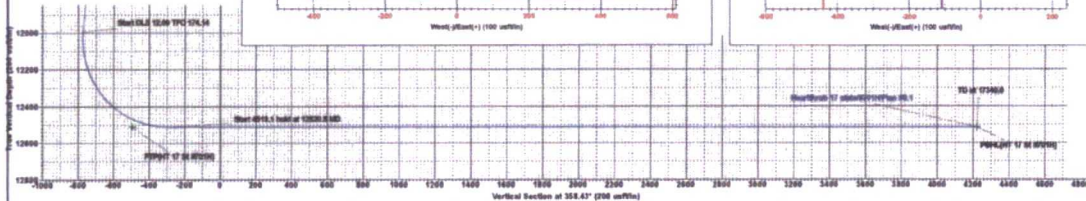
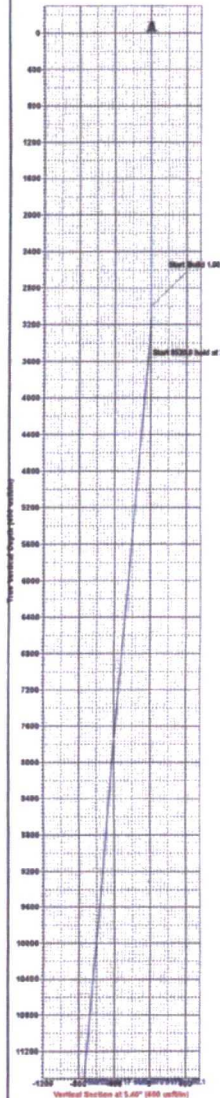
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.00	0.00	0.00	0.0	
3	3508.7	5.09	185.40	3508.0	-22.5	-2.1	1.00	185.40	-22.4	
4	12028.7	5.09	185.40	11994.4	-774.6	-73.2	0.00	0.00	-772.2	
5	12820.8	90.00	359.56	12514.0	-299.0	-81.5	12.00	174.14	-296.6	
6	17340.0	90.00	359.56	12514.0	4220.0	-116.0	0.00	0.00	4221.6	PBHL(HT 17 St #701H)

CASING DETAILS

No casing data is available

WELLSBONE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTPH(HT 17 St #701H)	12514.0	-499.0	-80.0	441387.00	767563.00
PBHL(HT 17 St #701H)	12514.0	4220.0	-116.0	446106.00	767547.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#701H

OH

Plan: Plan #0.1

Standard Planning Report

19 October, 2017



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3570.0usft
MD Reference: KB = 25 @ 3570.0usft
North Reference: Grid
Survey Calculation Method: 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 #701H

Well Position +N/-S 0.0 usft Northing: 441,886.00 usft Latitude: 32° 12' 45.732 N
+E/-W -35.0 usft Easting: 767,663.00 usft Longitude: 103° 36' 5.534 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,545.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/19/2017	6.93	60.04	47,892.45638674

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	358.43

Plan Survey Tool Program Date 10/19/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,340.0 Plan #0.1 (OH)	MWD	
			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	
3,508.7	5.09	185.40	3,508.0	-22.5	-2.1	1.00	1.00	0.00	185.40	
12,028.7	5.09	185.40	11,994.4	-774.6	-73.2	0.00	0.00	0.00	0.00	
12,820.8	90.00	359.56	12,514.0	-299.0	-81.5	12.00	10.72	21.99	174.14	
17,340.0	90.00	359.56	12,514.0	4,220.0	-116.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #701)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Heartthrob 17 state
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3570.0usft
 MD Reference: KB = 25 @ 3570.0usft
 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	1.00	185.40	3,100.0	-0.9	-0.1	-0.9	1.00	1.00	0.00
3,200.0	2.00	185.40	3,200.0	-3.5	-0.3	-3.5	1.00	1.00	0.00
3,300.0	3.00	185.40	3,299.9	-7.8	-0.7	-7.8	1.00	1.00	0.00
3,400.0	4.00	185.40	3,399.7	-13.9	-1.3	-13.9	1.00	1.00	0.00
3,508.7	5.09	185.40	3,508.0	-22.5	-2.1	-22.4	1.00	1.00	0.00
3,600.0	5.09	185.40	3,599.0	-30.5	-2.9	-30.4	0.00	0.00	0.00
3,700.0	5.09	185.40	3,698.6	-39.4	-3.7	-39.2	0.00	0.00	0.00
3,800.0	5.09	185.40	3,798.2	-48.2	-4.6	-48.0	0.00	0.00	0.00
3,900.0	5.09	185.40	3,897.8	-57.0	-5.4	-56.8	0.00	0.00	0.00
4,000.0	5.09	185.40	3,997.4	-65.8	-6.2	-65.6	0.00	0.00	0.00
4,100.0	5.09	185.40	4,097.0	-74.7	-7.1	-74.4	0.00	0.00	0.00
4,200.0	5.09	185.40	4,196.6	-83.5	-7.9	-83.2	0.00	0.00	0.00
4,300.0	5.09	185.40	4,296.2	-92.3	-8.7	-92.0	0.00	0.00	0.00
4,400.0	5.09	185.40	4,395.8	-101.1	-9.6	-100.8	0.00	0.00	0.00
4,500.0	5.09	185.40	4,495.4	-110.0	-10.4	-109.6	0.00	0.00	0.00
4,600.0	5.09	185.40	4,595.0	-118.8	-11.2	-118.4	0.00	0.00	0.00
4,700.0	5.09	185.40	4,694.6	-127.6	-12.1	-127.2	0.00	0.00	0.00
4,800.0	5.09	185.40	4,794.2	-136.5	-12.9	-136.0	0.00	0.00	0.00
4,900.0	5.09	185.40	4,893.9	-145.3	-13.7	-144.8	0.00	0.00	0.00
5,000.0	5.09	185.40	4,993.5	-154.1	-14.6	-153.7	0.00	0.00	0.00
5,100.0	5.09	185.40	5,093.1	-162.9	-15.4	-162.5	0.00	0.00	0.00
5,200.0	5.09	185.40	5,192.7	-171.8	-16.2	-171.3	0.00	0.00	0.00
5,300.0	5.09	185.40	5,292.3	-180.6	-17.1	-180.1	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: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #701H
KB = 25 @ 3570.0usft
KB = 25 @ 3570.0usft
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)
5,400.0	5.09	185.40	5,391.9	-189.4	-17.9	-188.9	0.00	0.00	0.00
5,500.0	5.09	185.40	5,491.5	-198.2	-18.7	-197.7	0.00	0.00	0.00
5,600.0	5.09	185.40	5,591.1	-207.1	-19.6	-206.5	0.00	0.00	0.00
5,700.0	5.09	185.40	5,690.7	-215.9	-20.4	-215.3	0.00	0.00	0.00
5,800.0	5.09	185.40	5,790.3	-224.7	-21.2	-224.1	0.00	0.00	0.00
5,900.0	5.09	185.40	5,889.9	-233.6	-22.1	-232.9	0.00	0.00	0.00
6,000.0	5.09	185.40	5,989.5	-242.4	-22.9	-241.7	0.00	0.00	0.00
6,100.0	5.09	185.40	6,089.1	-251.2	-23.7	-250.5	0.00	0.00	0.00
6,200.0	5.09	185.40	6,188.7	-260.0	-24.6	-259.3	0.00	0.00	0.00
6,300.0	5.09	185.40	6,288.3	-268.9	-25.4	-268.1	0.00	0.00	0.00
6,400.0	5.09	185.40	6,387.9	-277.7	-26.2	-276.9	0.00	0.00	0.00
6,500.0	5.09	185.40	6,487.6	-286.5	-27.1	-285.7	0.00	0.00	0.00
6,600.0	5.09	185.40	6,587.2	-295.3	-27.9	-294.5	0.00	0.00	0.00
6,700.0	5.09	185.40	6,686.8	-304.2	-28.7	-303.3	0.00	0.00	0.00
6,800.0	5.09	185.40	6,786.4	-313.0	-29.6	-312.1	0.00	0.00	0.00
6,900.0	5.09	185.40	6,886.0	-321.8	-30.4	-320.9	0.00	0.00	0.00
7,000.0	5.09	185.40	6,985.6	-330.7	-31.2	-329.7	0.00	0.00	0.00
7,100.0	5.09	185.40	7,085.2	-339.5	-32.1	-338.5	0.00	0.00	0.00
7,200.0	5.09	185.40	7,184.8	-348.3	-32.9	-347.3	0.00	0.00	0.00
7,300.0	5.09	185.40	7,284.4	-357.1	-33.7	-356.1	0.00	0.00	0.00
7,400.0	5.09	185.40	7,384.0	-366.0	-34.6	-364.9	0.00	0.00	0.00
7,500.0	5.09	185.40	7,483.6	-374.8	-35.4	-373.7	0.00	0.00	0.00
7,600.0	5.09	185.40	7,583.2	-383.6	-36.3	-382.5	0.00	0.00	0.00
7,700.0	5.09	185.40	7,682.8	-392.4	-37.1	-391.3	0.00	0.00	0.00
7,800.0	5.09	185.40	7,782.4	-401.3	-37.9	-400.1	0.00	0.00	0.00
7,900.0	5.09	185.40	7,882.0	-410.1	-38.8	-408.9	0.00	0.00	0.00
8,000.0	5.09	185.40	7,981.6	-418.9	-39.6	-417.7	0.00	0.00	0.00
8,100.0	5.09	185.40	8,081.2	-427.8	-40.4	-426.5	0.00	0.00	0.00
8,200.0	5.09	185.40	8,180.9	-436.6	-41.3	-435.3	0.00	0.00	0.00
8,300.0	5.09	185.40	8,280.5	-445.4	-42.1	-444.1	0.00	0.00	0.00
8,400.0	5.09	185.40	8,380.1	-454.2	-42.9	-452.9	0.00	0.00	0.00
8,500.0	5.09	185.40	8,479.7	-463.1	-43.8	-461.7	0.00	0.00	0.00
8,600.0	5.09	185.40	8,579.3	-471.9	-44.6	-470.5	0.00	0.00	0.00
8,700.0	5.09	185.40	8,678.9	-480.7	-45.4	-479.3	0.00	0.00	0.00
8,800.0	5.09	185.40	8,778.5	-489.5	-46.3	-488.1	0.00	0.00	0.00
8,900.0	5.09	185.40	8,878.1	-498.4	-47.1	-496.9	0.00	0.00	0.00
9,000.0	5.09	185.40	8,977.7	-507.2	-47.9	-505.7	0.00	0.00	0.00
9,100.0	5.09	185.40	9,077.3	-516.0	-48.8	-514.5	0.00	0.00	0.00
9,200.0	5.09	185.40	9,176.9	-524.9	-49.6	-523.3	0.00	0.00	0.00
9,300.0	5.09	185.40	9,276.5	-533.7	-50.4	-532.1	0.00	0.00	0.00
9,400.0	5.09	185.40	9,376.1	-542.5	-51.3	-540.9	0.00	0.00	0.00
9,500.0	5.09	185.40	9,475.7	-551.3	-52.1	-549.7	0.00	0.00	0.00
9,600.0	5.09	185.40	9,575.3	-560.2	-52.9	-558.5	0.00	0.00	0.00
9,700.0	5.09	185.40	9,674.9	-569.0	-53.8	-567.3	0.00	0.00	0.00
9,800.0	5.09	185.40	9,774.6	-577.8	-54.6	-576.1	0.00	0.00	0.00
9,900.0	5.09	185.40	9,874.2	-586.6	-55.4	-584.9	0.00	0.00	0.00
10,000.0	5.09	185.40	9,973.8	-595.5	-56.3	-593.7	0.00	0.00	0.00
10,100.0	5.09	185.40	10,073.4	-604.3	-57.1	-602.5	0.00	0.00	0.00
10,200.0	5.09	185.40	10,173.0	-613.1	-57.9	-611.3	0.00	0.00	0.00
10,300.0	5.09	185.40	10,272.6	-622.0	-58.8	-620.1	0.00	0.00	0.00
10,400.0	5.09	185.40	10,372.2	-630.8	-59.6	-628.9	0.00	0.00	0.00
10,500.0	5.09	185.40	10,471.8	-639.6	-60.4	-637.7	0.00	0.00	0.00
10,600.0	5.09	185.40	10,571.4	-648.4	-61.3	-646.5	0.00	0.00	0.00
10,700.0	5.09	185.40	10,671.0	-657.3	-62.1	-655.3	0.00	0.00	0.00



Planning Report

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Site: Heartthrob 17 state
Well: #701H
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MD Reference: KB = 25 @ 3570.0usft
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)
10,800.0	5.09	185.40	10,770.6	-666.1	-62.9	-664.1	0.00	0.00	0.00
10,900.0	5.09	185.40	10,870.2	-674.9	-63.8	-672.9	0.00	0.00	0.00
11,000.0	5.09	185.40	10,969.8	-683.7	-64.6	-681.7	0.00	0.00	0.00
11,100.0	5.09	185.40	11,069.4	-692.6	-65.4	-690.5	0.00	0.00	0.00
11,200.0	5.09	185.40	11,169.0	-701.4	-66.3	-699.3	0.00	0.00	0.00
11,300.0	5.09	185.40	11,268.6	-710.2	-67.1	-708.1	0.00	0.00	0.00
11,400.0	5.09	185.40	11,368.3	-719.1	-68.0	-716.9	0.00	0.00	0.00
11,500.0	5.09	185.40	11,467.9	-727.9	-68.8	-725.7	0.00	0.00	0.00
11,600.0	5.09	185.40	11,567.5	-736.7	-69.6	-734.5	0.00	0.00	0.00
11,700.0	5.09	185.40	11,667.1	-745.5	-70.5	-743.3	0.00	0.00	0.00
11,800.0	5.09	185.40	11,766.7	-754.4	-71.3	-752.1	0.00	0.00	0.00
11,900.0	5.09	185.40	11,866.3	-763.2	-72.1	-760.9	0.00	0.00	0.00
12,000.0	5.09	185.40	11,965.9	-772.0	-73.0	-769.7	0.00	0.00	0.00
12,028.7	5.09	185.40	11,994.4	-774.6	-73.2	-772.2	0.00	0.00	0.00
12,050.0	2.55	191.27	12,015.7	-776.0	-73.4	-773.6	12.00	-11.87	27.53
12,075.0	0.72	313.50	12,040.7	-776.4	-73.6	-774.1	12.00	-7.33	488.91
12,100.0	3.54	351.15	12,065.7	-775.5	-73.8	-773.2	12.00	11.27	150.58
12,125.0	6.52	355.02	12,090.6	-773.3	-74.1	-771.0	12.00	11.93	15.50
12,150.0	9.51	356.47	12,115.4	-769.9	-74.3	-767.5	12.00	11.97	5.78
12,175.0	12.51	357.23	12,139.9	-765.1	-74.6	-762.8	12.00	11.99	3.03
12,200.0	15.51	357.69	12,164.1	-759.1	-74.8	-756.7	12.00	11.99	1.87
12,225.0	18.51	358.01	12,188.0	-751.8	-75.1	-749.4	12.00	11.99	1.28
12,250.0	21.51	358.25	12,211.5	-743.2	-75.4	-740.9	12.00	12.00	0.93
12,275.0	24.50	358.43	12,234.5	-733.4	-75.7	-731.1	12.00	12.00	0.71
12,300.0	27.50	358.57	12,257.0	-722.5	-76.0	-720.1	12.00	12.00	0.57
12,325.0	30.50	358.68	12,278.9	-710.4	-76.3	-708.0	12.00	12.00	0.46
12,350.0	33.50	358.78	12,300.1	-697.1	-76.6	-694.8	12.00	12.00	0.39
12,375.0	36.50	358.86	12,320.5	-682.8	-76.8	-680.4	12.00	12.00	0.33
12,400.0	39.50	358.93	12,340.2	-667.4	-77.1	-665.0	12.00	12.00	0.29
12,425.0	42.50	359.00	12,359.1	-651.0	-77.4	-648.6	12.00	12.00	0.25
12,450.0	45.50	359.05	12,377.1	-633.6	-77.7	-631.3	12.00	12.00	0.23
12,475.0	48.50	359.10	12,394.1	-615.4	-78.0	-613.0	12.00	12.00	0.20
12,500.0	51.50	359.15	12,410.2	-596.2	-78.3	-593.8	12.00	12.00	0.19
12,525.0	54.50	359.19	12,425.2	-576.3	-78.6	-573.9	12.00	12.00	0.17
12,550.0	57.50	359.23	12,439.2	-555.5	-78.9	-553.2	12.00	12.00	0.16
12,575.0	60.50	359.27	12,452.1	-534.1	-79.2	-531.7	12.00	12.00	0.15
12,600.0	63.50	359.30	12,463.8	-512.0	-79.4	-509.7	12.00	12.00	0.14
12,625.0	66.50	359.34	12,474.4	-489.4	-79.7	-487.0	12.00	12.00	0.13
12,630.9	67.21	359.35	12,476.7	-483.9	-79.8	-481.6	12.00	12.00	0.13
FTP(HT 17 St #701H)									
12,650.0	69.50	359.37	12,483.8	-466.2	-80.0	-463.8	12.00	12.00	0.13
12,675.0	72.50	359.40	12,491.9	-442.6	-80.2	-440.2	12.00	12.00	0.12
12,700.0	75.50	359.43	12,498.8	-418.5	-80.5	-416.2	12.00	12.00	0.12
12,725.0	78.50	359.46	12,504.4	-394.2	-80.7	-391.8	12.00	12.00	0.11
12,750.0	81.50	359.49	12,508.8	-369.6	-80.9	-367.2	12.00	12.00	0.11
12,775.0	84.50	359.51	12,511.8	-344.8	-81.2	-342.4	12.00	12.00	0.11
12,800.0	87.50	359.54	12,513.5	-319.8	-81.4	-317.5	12.00	12.00	0.11
12,820.8	90.00	359.56	12,514.0	-299.0	-81.5	-296.6	12.00	12.00	0.11
12,900.0	90.00	359.56	12,514.0	-219.8	-82.1	-217.5	0.00	0.00	0.00
13,000.0	90.00	359.56	12,514.0	-119.8	-82.9	-117.5	0.00	0.00	0.00
13,100.0	90.00	359.56	12,514.0	-19.8	-83.7	-17.5	0.00	0.00	0.00
13,200.0	90.00	359.56	12,514.0	80.2	-84.4	82.4	0.00	0.00	0.00
13,300.0	90.00	359.56	12,514.0	180.2	-85.2	182.4	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3570.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3570.0usft
Site:	Heartthrob 17 state	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	359.56	12,514.0	280.1	-85.9	282.4	0.00	0.00	0.00
13,500.0	90.00	359.56	12,514.0	380.1	-86.7	382.4	0.00	0.00	0.00
13,600.0	90.00	359.56	12,514.0	480.1	-87.5	482.4	0.00	0.00	0.00
13,700.0	90.00	359.56	12,514.0	580.1	-88.2	582.3	0.00	0.00	0.00
13,800.0	90.00	359.56	12,514.0	680.1	-89.0	682.3	0.00	0.00	0.00
13,900.0	90.00	359.56	12,514.0	780.1	-89.8	782.3	0.00	0.00	0.00
14,000.0	90.00	359.56	12,514.0	880.1	-90.5	882.3	0.00	0.00	0.00
14,100.0	90.00	359.56	12,514.0	980.1	-91.3	982.3	0.00	0.00	0.00
14,200.0	90.00	359.56	12,514.0	1,080.1	-92.0	1,082.2	0.00	0.00	0.00
14,300.0	90.00	359.56	12,514.0	1,180.1	-92.8	1,182.2	0.00	0.00	0.00
14,400.0	90.00	359.56	12,514.0	1,280.1	-93.6	1,282.2	0.00	0.00	0.00
14,500.0	90.00	359.56	12,514.0	1,380.1	-94.3	1,382.2	0.00	0.00	0.00
14,600.0	90.00	359.56	12,514.0	1,480.1	-95.1	1,482.2	0.00	0.00	0.00
14,700.0	90.00	359.56	12,514.0	1,580.1	-95.9	1,582.1	0.00	0.00	0.00
14,800.0	90.00	359.56	12,514.0	1,680.1	-96.6	1,682.1	0.00	0.00	0.00
14,900.0	90.00	359.56	12,514.0	1,780.1	-97.4	1,782.1	0.00	0.00	0.00
15,000.0	90.00	359.56	12,514.0	1,880.1	-98.1	1,882.1	0.00	0.00	0.00
15,100.0	90.00	359.56	12,514.0	1,980.1	-98.9	1,982.1	0.00	0.00	0.00
15,200.0	90.00	359.56	12,514.0	2,080.1	-99.7	2,082.1	0.00	0.00	0.00
15,300.0	90.00	359.56	12,514.0	2,180.1	-100.4	2,182.0	0.00	0.00	0.00
15,400.0	90.00	359.56	12,514.0	2,280.1	-101.2	2,282.0	0.00	0.00	0.00
15,500.0	90.00	359.56	12,514.0	2,380.1	-102.0	2,382.0	0.00	0.00	0.00
15,600.0	90.00	359.56	12,514.0	2,480.1	-102.7	2,482.0	0.00	0.00	0.00
15,700.0	90.00	359.56	12,514.0	2,580.1	-103.5	2,582.0	0.00	0.00	0.00
15,800.0	90.00	359.56	12,514.0	2,680.1	-104.3	2,681.9	0.00	0.00	0.00
15,900.0	90.00	359.56	12,514.0	2,780.1	-105.0	2,781.9	0.00	0.00	0.00
16,000.0	90.00	359.56	12,514.0	2,880.1	-105.8	2,881.9	0.00	0.00	0.00
16,100.0	90.00	359.56	12,514.0	2,980.1	-106.5	2,981.9	0.00	0.00	0.00
16,200.0	90.00	359.56	12,514.0	3,080.1	-107.3	3,081.9	0.00	0.00	0.00
16,300.0	90.00	359.56	12,514.0	3,180.1	-108.1	3,181.8	0.00	0.00	0.00
16,400.0	90.00	359.56	12,514.0	3,280.1	-108.8	3,281.8	0.00	0.00	0.00
16,500.0	90.00	359.56	12,514.0	3,380.1	-109.6	3,381.8	0.00	0.00	0.00
16,600.0	90.00	359.56	12,514.0	3,480.1	-110.4	3,481.8	0.00	0.00	0.00
16,700.0	90.00	359.56	12,514.0	3,580.1	-111.1	3,581.8	0.00	0.00	0.00
16,800.0	90.00	359.56	12,514.0	3,680.1	-111.9	3,681.7	0.00	0.00	0.00
16,900.0	90.00	359.56	12,514.0	3,780.0	-112.6	3,781.7	0.00	0.00	0.00
17,000.0	90.00	359.56	12,514.0	3,880.0	-113.4	3,881.7	0.00	0.00	0.00
17,100.0	90.00	359.56	12,514.0	3,980.0	-114.2	3,981.7	0.00	0.00	0.00
17,200.0	90.00	359.56	12,514.0	4,080.0	-114.9	4,081.7	0.00	0.00	0.00
17,300.0	90.00	359.56	12,514.0	4,180.0	-115.7	4,181.6	0.00	0.00	0.00
17,340.0	90.00	359.56	12,514.0	4,220.0	-116.0	4,221.6	0.00	0.00	0.00
PBHL(HT 17 St #701H)									



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3570.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3570.0usft
Site:	Hearthrob 17 state	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL(HT 17 St #701H)	0.00	0.01	12,514.0	4,220.0	-116.0	446,106.00	767,547.00	32° 13' 27.498 N	103° 36' 6.550 W
- plan hits target center									
- Point									
FTP(HT 17 St #701H)	0.00	0.01	12,514.0	-499.0	-80.0	441,387.00	767,583.00	32° 12' 40.800 N	103° 36' 6.504 W
- plan misses target center by 40.2usft at 12630.9usft MD (12476.7 TVD, -483.9 N, -79.8 E)									
- Point									