

25. 44/28



Lea County, NM (NAD 83 NME)

Heartthrob 17 state #702H

Plan #0.2

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: #702H

KB = 25 @ 3571.0usft 3546.0
Northing 441886.00 Easting 767896.00 Latitude 32° 12' 45.730 N Longitude 103° 36' 5.150 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSecl	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	3559.5	5.60	154.53	3559.6	-24.6	11.7	1.00	154.53	-23.6	
4	12046.1	5.60	154.53	12004.8	-771.7	367.5	0.00	0.00	-738.5	
5	12838.4	90.00	359.57	12524.0	-296.0	385.5	12.00	-154.85	-262.9	
6	17356.5	90.00	359.57	12524.0	4222.0	352.0	0.00	0.00	4236.6	PBHL(HT 17 St #702H)



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.54°
Magnetic Field
Strength: 47892.6nT
Dip Angle: 60.04°
Date: 10/19/2017
Model: IGRF2015

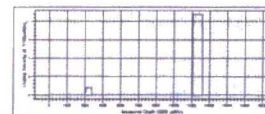
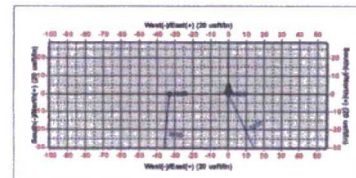
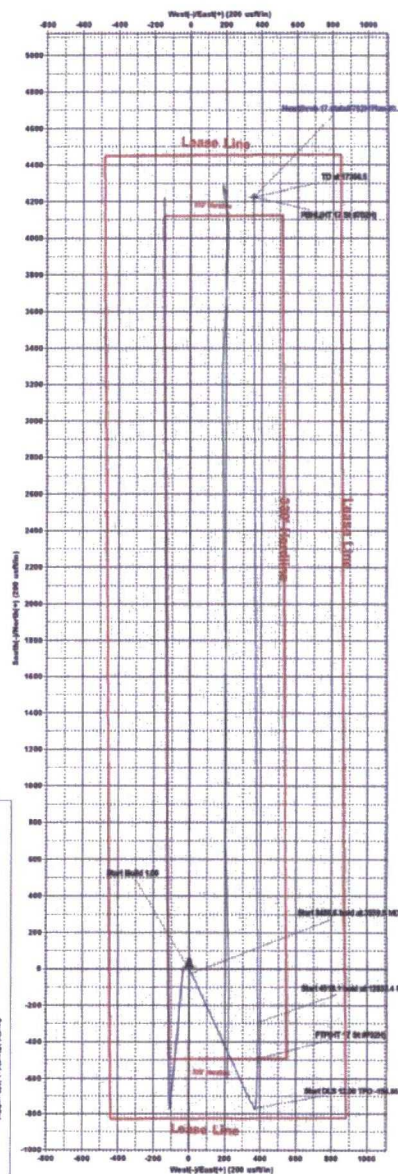
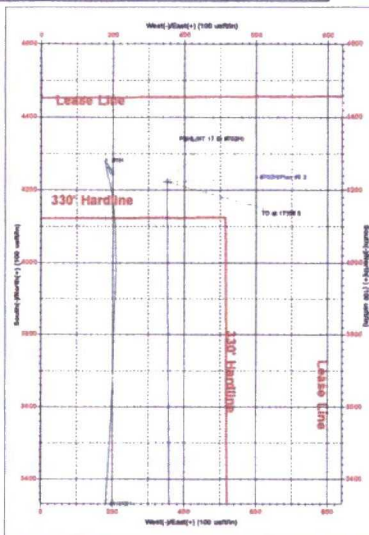
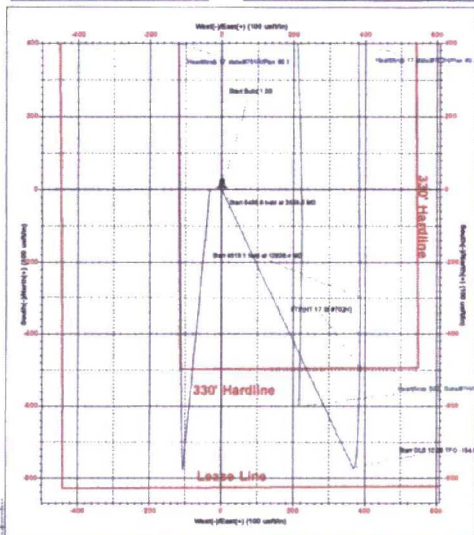
To convert a Magnetic Direction to a Grid Direction, Add 6.54°
To convert a Magnetic Direction to a True Direction, Add 6.93° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name: FTTH(HT 17 St #702H) PBHL(HT 17 St #702H)
TVD: 12524.0 +N-S: -486.0 +E-W: 357.0 Northing: 441390.00 Easting: 768062.00
12524.0 4222.0 352.0 446108.00 768048.00



10/19/2017 10:11:11 AM
25. 44/28



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#702H

OH

Plan: Plan #0.2

Standard Planning Report

22 January, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #702H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3571.0usft
MD Reference: KB = 25 @ 3571.0usft
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 #702H

Well Position +N/-S 0.0 usft Northing: 441,886.00 usft Latitude: 32° 12' 45.730 N
 +E/-W -2.0 usft Easting: 767,698.00 usft Longitude: 103° 36' 5.150 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,546.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/19/2017	6.93	60.04	47,892.45994891

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	4.77

Plan Survey Tool Program Date 1/22/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,356.5 Plan #0.2 (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	
3,559.5	5.60	154.53	3,558.6	-24.6	11.7	1.00	1.00	0.00	154.53	
12,046.1	5.60	154.53	12,004.8	-771.7	367.5	0.00	0.00	0.00	0.00	
12,838.4	90.00	359.57	12,524.0	-296.0	385.5	12.00	10.65	-19.56	-154.85	
17,356.5	90.00	359.57	12,524.0	4,222.0	352.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #702)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Heartthrob 17 state
 Well: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3571.0usft
 MD Reference: KB = 25 @ 3571.0usft
 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	154.53	3,100.0	-0.8	0.4	-0.8	1.00	1.00	0.00
3,200.0	2.00	154.53	3,200.0	-3.2	1.5	-3.0	1.00	1.00	0.00
3,300.0	3.00	154.53	3,299.9	-7.1	3.4	-6.8	1.00	1.00	0.00
3,400.0	4.00	154.53	3,399.7	-12.6	6.0	-12.1	1.00	1.00	0.00
3,500.0	5.00	154.53	3,499.4	-19.7	9.4	-18.8	1.00	1.00	0.00
3,559.5	5.60	154.53	3,558.6	-24.6	11.7	-23.6	1.00	1.00	0.00
3,600.0	5.60	154.53	3,598.9	-28.2	13.4	-27.0	0.00	0.00	0.00
3,700.0	5.60	154.53	3,698.4	-37.0	17.6	-35.4	0.00	0.00	0.00
3,800.0	5.60	154.53	3,798.0	-45.8	21.8	-43.8	0.00	0.00	0.00
3,900.0	5.60	154.53	3,897.5	-54.6	26.0	-52.3	0.00	0.00	0.00
4,000.0	5.60	154.53	3,997.0	-63.4	30.2	-60.7	0.00	0.00	0.00
4,100.0	5.60	154.53	4,096.5	-72.2	34.4	-69.1	0.00	0.00	0.00
4,200.0	5.60	154.53	4,196.1	-81.0	38.6	-77.5	0.00	0.00	0.00
4,300.0	5.60	154.53	4,295.6	-89.8	42.8	-86.0	0.00	0.00	0.00
4,400.0	5.60	154.53	4,395.1	-98.6	47.0	-94.4	0.00	0.00	0.00
4,500.0	5.60	154.53	4,494.6	-107.4	51.2	-102.8	0.00	0.00	0.00
4,600.0	5.60	154.53	4,594.2	-116.2	55.4	-111.2	0.00	0.00	0.00
4,700.0	5.60	154.53	4,693.7	-125.0	59.5	-119.7	0.00	0.00	0.00
4,800.0	5.60	154.53	4,793.2	-133.8	63.7	-128.1	0.00	0.00	0.00
4,900.0	5.60	154.53	4,892.7	-142.6	67.9	-136.5	0.00	0.00	0.00
5,000.0	5.60	154.53	4,992.2	-151.5	72.1	-144.9	0.00	0.00	0.00
5,100.0	5.60	154.53	5,091.8	-160.3	76.3	-153.4	0.00	0.00	0.00
5,200.0	5.60	154.53	5,191.3	-169.1	80.5	-161.8	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: #702H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3571.0usft
MD Reference: KB = 25 @ 3571.0usft
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	5.60	154.53	5,290.8	-177.9	84.7	-170.2	0.00	0.00	0.00
5,400.0	5.60	154.53	5,390.3	-186.7	88.9	-178.6	0.00	0.00	0.00
5,500.0	5.60	154.53	5,489.9	-195.5	93.1	-187.1	0.00	0.00	0.00
5,600.0	5.60	154.53	5,589.4	-204.3	97.3	-195.5	0.00	0.00	0.00
5,700.0	5.60	154.53	5,688.9	-213.1	101.5	-203.9	0.00	0.00	0.00
5,800.0	5.60	154.53	5,788.4	-221.9	105.7	-212.3	0.00	0.00	0.00
5,900.0	5.60	154.53	5,888.0	-230.7	109.9	-220.8	0.00	0.00	0.00
6,000.0	5.60	154.53	5,987.5	-239.5	114.0	-229.2	0.00	0.00	0.00
6,100.0	5.60	154.53	6,087.0	-248.3	118.2	-237.6	0.00	0.00	0.00
6,200.0	5.60	154.53	6,186.5	-257.1	122.4	-246.0	0.00	0.00	0.00
6,300.0	5.60	154.53	6,286.1	-265.9	126.6	-254.5	0.00	0.00	0.00
6,400.0	5.60	154.53	6,385.6	-274.7	130.8	-262.9	0.00	0.00	0.00
6,500.0	5.60	154.53	6,485.1	-283.5	135.0	-271.3	0.00	0.00	0.00
6,600.0	5.60	154.53	6,584.6	-292.3	139.2	-279.7	0.00	0.00	0.00
6,700.0	5.60	154.53	6,684.1	-301.1	143.4	-288.1	0.00	0.00	0.00
6,800.0	5.60	154.53	6,783.7	-309.9	147.6	-296.6	0.00	0.00	0.00
6,900.0	5.60	154.53	6,883.2	-318.7	151.8	-305.0	0.00	0.00	0.00
7,000.0	5.60	154.53	6,982.7	-327.5	156.0	-313.4	0.00	0.00	0.00
7,100.0	5.60	154.53	7,082.2	-336.3	160.2	-321.8	0.00	0.00	0.00
7,200.0	5.60	154.53	7,181.8	-345.1	164.4	-330.3	0.00	0.00	0.00
7,300.0	5.60	154.53	7,281.3	-353.9	168.5	-338.7	0.00	0.00	0.00
7,400.0	5.60	154.53	7,380.8	-362.7	172.7	-347.1	0.00	0.00	0.00
7,500.0	5.60	154.53	7,480.3	-371.5	176.9	-355.5	0.00	0.00	0.00
7,600.0	5.60	154.53	7,579.9	-380.3	181.1	-364.0	0.00	0.00	0.00
7,700.0	5.60	154.53	7,679.4	-389.1	185.3	-372.4	0.00	0.00	0.00
7,800.0	5.60	154.53	7,778.9	-397.9	189.5	-380.8	0.00	0.00	0.00
7,900.0	5.60	154.53	7,878.4	-406.7	193.7	-389.2	0.00	0.00	0.00
8,000.0	5.60	154.53	7,978.0	-415.5	197.9	-397.7	0.00	0.00	0.00
8,100.0	5.60	154.53	8,077.5	-424.3	202.1	-406.1	0.00	0.00	0.00
8,200.0	5.60	154.53	8,177.0	-433.1	206.3	-414.5	0.00	0.00	0.00
8,300.0	5.60	154.53	8,276.5	-441.9	210.5	-422.9	0.00	0.00	0.00
8,400.0	5.60	154.53	8,376.0	-450.8	214.7	-431.4	0.00	0.00	0.00
8,500.0	5.60	154.53	8,475.6	-459.6	218.9	-439.8	0.00	0.00	0.00
8,600.0	5.60	154.53	8,575.1	-468.4	223.0	-448.2	0.00	0.00	0.00
8,700.0	5.60	154.53	8,674.6	-477.2	227.2	-456.6	0.00	0.00	0.00
8,800.0	5.60	154.53	8,774.1	-486.0	231.4	-465.1	0.00	0.00	0.00
8,900.0	5.60	154.53	8,873.7	-494.8	235.6	-473.5	0.00	0.00	0.00
9,000.0	5.60	154.53	8,973.2	-503.6	239.8	-481.9	0.00	0.00	0.00
9,100.0	5.60	154.53	9,072.7	-512.4	244.0	-490.3	0.00	0.00	0.00
9,200.0	5.60	154.53	9,172.2	-521.2	248.2	-498.8	0.00	0.00	0.00
9,300.0	5.60	154.53	9,271.8	-530.0	252.4	-507.2	0.00	0.00	0.00
9,400.0	5.60	154.53	9,371.3	-538.8	256.6	-515.6	0.00	0.00	0.00
9,500.0	5.60	154.53	9,470.8	-547.6	260.8	-524.0	0.00	0.00	0.00
9,600.0	5.60	154.53	9,570.3	-556.4	265.0	-532.4	0.00	0.00	0.00
9,700.0	5.60	154.53	9,669.9	-565.2	269.2	-540.9	0.00	0.00	0.00
9,800.0	5.60	154.53	9,769.4	-574.0	273.4	-549.3	0.00	0.00	0.00
9,900.0	5.60	154.53	9,868.9	-582.8	277.5	-557.7	0.00	0.00	0.00
10,000.0	5.60	154.53	9,968.4	-591.6	281.7	-566.1	0.00	0.00	0.00
10,100.0	5.60	154.53	10,067.9	-600.4	285.9	-574.6	0.00	0.00	0.00
10,200.0	5.60	154.53	10,167.5	-609.2	290.1	-583.0	0.00	0.00	0.00
10,300.0	5.60	154.53	10,267.0	-618.0	294.3	-591.4	0.00	0.00	0.00
10,400.0	5.60	154.53	10,366.5	-626.8	298.5	-599.8	0.00	0.00	0.00
10,500.0	5.60	154.53	10,466.0	-635.6	302.7	-608.3	0.00	0.00	0.00
10,600.0	5.60	154.53	10,565.6	-644.4	306.9	-616.7	0.00	0.00	0.00



Planning Report

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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)
10,700.0	5.60	154.53	10,665.1	-653.2	311.1	-625.1	0.00	0.00	0.00
10,800.0	5.60	154.53	10,764.6	-662.0	315.3	-633.5	0.00	0.00	0.00
10,900.0	5.60	154.53	10,864.1	-670.8	319.5	-642.0	0.00	0.00	0.00
11,000.0	5.60	154.53	10,963.7	-679.6	323.7	-650.4	0.00	0.00	0.00
11,100.0	5.60	154.53	11,063.2	-688.4	327.9	-658.8	0.00	0.00	0.00
11,200.0	5.60	154.53	11,162.7	-697.2	332.0	-667.2	0.00	0.00	0.00
11,300.0	5.60	154.53	11,262.2	-706.0	336.2	-675.7	0.00	0.00	0.00
11,400.0	5.60	154.53	11,361.8	-714.8	340.4	-684.1	0.00	0.00	0.00
11,500.0	5.60	154.53	11,461.3	-723.6	344.6	-692.5	0.00	0.00	0.00
11,600.0	5.60	154.53	11,560.8	-732.4	348.8	-700.9	0.00	0.00	0.00
11,700.0	5.60	154.53	11,660.3	-741.3	353.0	-709.4	0.00	0.00	0.00
11,800.0	5.60	154.53	11,759.8	-750.1	357.2	-717.8	0.00	0.00	0.00
11,900.0	5.60	154.53	11,859.4	-758.9	361.4	-726.2	0.00	0.00	0.00
12,000.0	5.60	154.53	11,958.9	-767.7	365.6	-734.6	0.00	0.00	0.00
12,046.1	5.60	154.53	12,004.8	-771.7	367.5	-738.5	0.00	0.00	0.00
12,050.0	5.18	152.35	12,008.7	-772.0	367.7	-738.8	12.00	-10.77	-56.51
12,075.0	2.86	123.62	12,033.6	-773.4	368.7	-740.1	12.00	-9.25	-114.91
12,100.0	2.75	59.10	12,058.6	-773.4	369.8	-740.0	12.00	-0.44	-258.08
12,125.0	5.00	27.89	12,083.5	-772.2	370.8	-738.7	12.00	8.96	-124.83
12,150.0	7.77	17.28	12,108.4	-769.6	371.8	-736.0	12.00	11.08	-42.47
12,175.0	10.66	12.30	12,133.0	-765.7	372.8	-732.1	12.00	11.58	-19.90
12,200.0	13.60	9.44	12,157.5	-760.5	373.8	-726.9	12.00	11.76	-11.43
12,225.0	16.56	7.59	12,181.6	-754.1	374.7	-720.4	12.00	11.85	-7.41
12,250.0	19.54	6.29	12,205.4	-746.4	375.6	-712.6	12.00	11.89	-5.21
12,275.0	22.52	5.32	12,228.7	-737.5	376.5	-703.7	12.00	11.92	-3.88
12,300.0	25.50	4.56	12,251.5	-727.4	377.4	-693.5	12.00	11.94	-3.01
12,325.0	28.49	3.96	12,273.8	-716.1	378.3	-682.2	12.00	11.95	-2.42
12,350.0	31.48	3.46	12,295.5	-703.6	379.1	-669.7	12.00	11.96	-2.00
12,375.0	34.47	3.04	12,316.4	-690.0	379.8	-656.1	12.00	11.97	-1.68
12,400.0	37.46	2.68	12,336.7	-675.3	380.6	-641.4	12.00	11.97	-1.44
12,425.0	40.45	2.36	12,356.1	-659.6	381.3	-625.7	12.00	11.97	-1.26
12,450.0	43.45	2.08	12,374.7	-642.9	381.9	-609.0	12.00	11.98	-1.11
12,475.0	46.44	1.83	12,392.4	-625.3	382.5	-591.4	12.00	11.98	-1.00
12,500.0	49.44	1.61	12,409.1	-606.7	383.1	-572.8	12.00	11.98	-0.90
12,525.0	52.43	1.40	12,424.9	-587.3	383.6	-553.4	12.00	11.98	-0.83
12,550.0	55.43	1.21	12,439.6	-567.1	384.0	-533.3	12.00	11.98	-0.76
12,575.0	58.43	1.04	12,453.3	-546.2	384.4	-512.4	12.00	11.99	-0.71
12,600.0	61.42	0.87	12,465.8	-524.6	384.8	-490.8	12.00	11.99	-0.66
12,625.0	64.42	0.71	12,477.2	-502.3	385.1	-468.6	12.00	11.99	-0.63
12,649.9	67.41	0.56	12,487.3	-479.6	385.4	-445.9	12.00	11.99	-0.60
FTP(HT 17 St #702H)									
12,650.0	67.42	0.56	12,487.4	-479.5	385.4	-445.8	12.00	11.99	-0.58
12,675.0	70.41	0.42	12,496.3	-456.2	385.6	-422.6	12.00	11.99	-0.57
12,700.0	73.41	0.28	12,504.1	-432.4	385.7	-398.9	12.00	11.99	-0.55
12,725.0	76.41	0.15	12,510.6	-408.3	385.8	-374.8	12.00	11.99	-0.53
12,750.0	79.41	0.02	12,515.9	-383.8	385.8	-350.5	12.00	11.99	-0.52
12,775.0	82.40	359.89	12,519.8	-359.2	385.8	-325.9	12.00	11.99	-0.51
12,800.0	85.40	359.77	12,522.5	-334.3	385.7	-301.1	12.00	11.99	-0.50
12,825.0	88.40	359.64	12,523.8	-309.3	385.6	-276.2	12.00	11.99	-0.50
12,838.4	90.00	359.57	12,524.0	-296.0	385.5	-262.9	12.00	11.99	-0.50
12,900.0	90.00	359.57	12,524.0	-234.3	385.1	-201.5	0.00	0.00	0.00
13,000.0	90.00	359.57	12,524.0	-134.3	384.3	-101.9	0.00	0.00	0.00
13,100.0	90.00	359.57	12,524.0	-34.3	383.6	-2.4	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: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3571.0usft
 MD Reference: KB = 25 @ 3571.0usft
 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)
13,200.0	90.00	359.57	12,524.0	65.7	382.8	97.2	0.00	0.00	0.00
13,300.0	90.00	359.57	12,524.0	165.7	382.1	196.8	0.00	0.00	0.00
13,400.0	90.00	359.57	12,524.0	265.6	381.3	296.4	0.00	0.00	0.00
13,500.0	90.00	359.57	12,524.0	365.6	380.6	396.0	0.00	0.00	0.00
13,600.0	90.00	359.57	12,524.0	465.6	379.9	495.6	0.00	0.00	0.00
13,700.0	90.00	359.57	12,524.0	565.6	379.1	595.2	0.00	0.00	0.00
13,800.0	90.00	359.57	12,524.0	665.6	378.4	694.8	0.00	0.00	0.00
13,900.0	90.00	359.57	12,524.0	765.6	377.6	794.4	0.00	0.00	0.00
14,000.0	90.00	359.57	12,524.0	865.6	376.9	894.0	0.00	0.00	0.00
14,100.0	90.00	359.57	12,524.0	965.6	376.2	993.5	0.00	0.00	0.00
14,200.0	90.00	359.57	12,524.0	1,065.6	375.4	1,093.1	0.00	0.00	0.00
14,300.0	90.00	359.57	12,524.0	1,165.6	374.7	1,192.7	0.00	0.00	0.00
14,400.0	90.00	359.57	12,524.0	1,265.6	373.9	1,292.3	0.00	0.00	0.00
14,500.0	90.00	359.57	12,524.0	1,365.6	373.2	1,391.9	0.00	0.00	0.00
14,600.0	90.00	359.57	12,524.0	1,465.6	372.4	1,491.5	0.00	0.00	0.00
14,700.0	90.00	359.57	12,524.0	1,565.6	371.7	1,591.1	0.00	0.00	0.00
14,800.0	90.00	359.57	12,524.0	1,665.6	371.0	1,690.7	0.00	0.00	0.00
14,900.0	90.00	359.57	12,524.0	1,765.6	370.2	1,790.3	0.00	0.00	0.00
15,000.0	90.00	359.57	12,524.0	1,865.6	369.5	1,889.9	0.00	0.00	0.00
15,100.0	90.00	359.57	12,524.0	1,965.6	368.7	1,989.4	0.00	0.00	0.00
15,200.0	90.00	359.57	12,524.0	2,065.6	368.0	2,089.0	0.00	0.00	0.00
15,300.0	90.00	359.57	12,524.0	2,165.6	367.3	2,188.6	0.00	0.00	0.00
15,400.0	90.00	359.57	12,524.0	2,265.6	366.5	2,288.2	0.00	0.00	0.00
15,500.0	90.00	359.57	12,524.0	2,365.6	365.8	2,387.8	0.00	0.00	0.00
15,600.0	90.00	359.57	12,524.0	2,465.6	365.0	2,487.4	0.00	0.00	0.00
15,700.0	90.00	359.57	12,524.0	2,565.6	364.3	2,587.0	0.00	0.00	0.00
15,800.0	90.00	359.57	12,524.0	2,665.6	363.5	2,686.6	0.00	0.00	0.00
15,900.0	90.00	359.57	12,524.0	2,765.6	362.8	2,786.2	0.00	0.00	0.00
16,000.0	90.00	359.57	12,524.0	2,865.6	362.1	2,885.7	0.00	0.00	0.00
16,100.0	90.00	359.57	12,524.0	2,965.6	361.3	2,985.3	0.00	0.00	0.00
16,200.0	90.00	359.57	12,524.0	3,065.6	360.6	3,084.9	0.00	0.00	0.00
16,300.0	90.00	359.57	12,524.0	3,165.6	359.8	3,184.5	0.00	0.00	0.00
16,400.0	90.00	359.57	12,524.0	3,265.6	359.1	3,284.1	0.00	0.00	0.00
16,500.0	90.00	359.57	12,524.0	3,365.6	358.4	3,383.7	0.00	0.00	0.00
16,600.0	90.00	359.57	12,524.0	3,465.6	357.6	3,483.3	0.00	0.00	0.00
16,700.0	90.00	359.57	12,524.0	3,565.6	356.9	3,582.9	0.00	0.00	0.00
16,800.0	90.00	359.57	12,524.0	3,665.6	356.1	3,682.5	0.00	0.00	0.00
16,900.0	90.00	359.57	12,524.0	3,765.6	355.4	3,782.1	0.00	0.00	0.00
17,000.0	90.00	359.57	12,524.0	3,865.5	354.6	3,881.6	0.00	0.00	0.00
17,100.0	90.00	359.57	12,524.0	3,965.5	353.9	3,981.2	0.00	0.00	0.00
17,200.0	90.00	359.57	12,524.0	4,065.5	353.2	4,080.8	0.00	0.00	0.00
17,300.0	90.00	359.57	12,524.0	4,165.5	352.4	4,180.4	0.00	0.00	0.00
17,356.5	90.00	359.57	12,524.0	4,222.0	352.0	4,236.6	0.00	0.00	0.00

PBHL(HT 17 St #702H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #702H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3571.0usft
MD Reference: KB = 25 @ 3571.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 #702H)	0.00	0.01	12,524.0	4,222.0	352.0	446,108.00	768,048.00	32° 13' 27.484 N	103° 36' 0.717 W
- plan hits target center									
- Point									
FTP(HT 17 St #702H)	0.00	0.01	12,524.0	-496.0	387.0	441,390.00	768,083.00	32° 12' 40.796 N	103° 36' 0.685 W
- plan misses target center by 40.2usft at 12649.9usft MD (12487.3 TVD, -479.6 N, 385.4 E)									
- Point									