25-44128

eog resources

Lea County, NM (NAD 83 NME)

Heartthrob 17 state #702H

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

Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.54°

Magnetic Field
Strength: 47892.5snT
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°

WELL DETAILS: #702H

3546.0
KB = 25 @ 3571.0usft

Northing	Easting	Latitude	Longitude
441887.00	767733.00	32° 12' 45.737 N	103° 36' 4.719 W

SECTION DETAILS

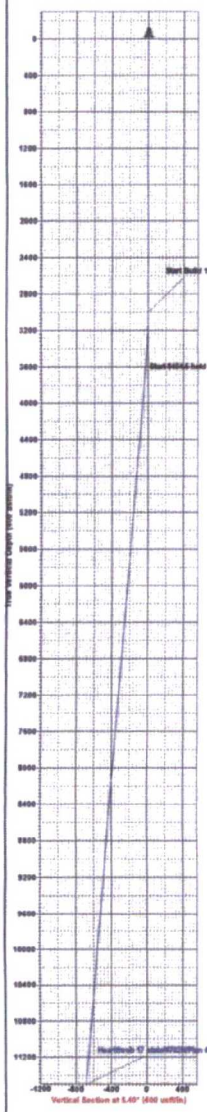
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3597.5	5.98	147.88	3596.4	-26.4	16.6	1.00	147.88	-24.3	
4	12052.0	5.98	147.88	12005.0	-771.7	484.5	0.00	0.00	-712.6	
5	12844.4	90.00	359.57	12524.0	-295.9	509.5	12.00	-148.16	-237.0	
6	17362.4	90.00	359.57	12524.0	4222.0	476.0	0.00	0.00	4248.7	PBHL(HT 17 St #702H)

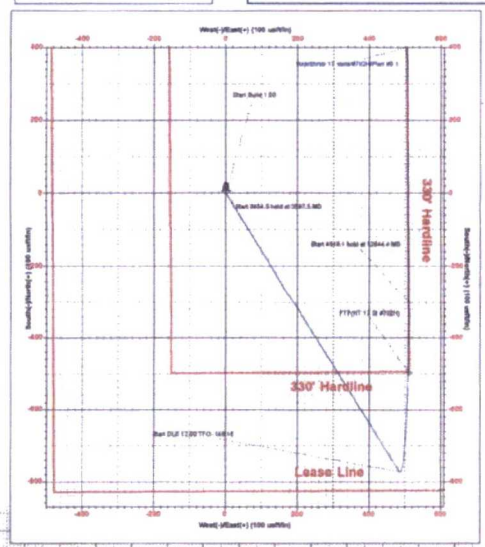
CASING DETAILS

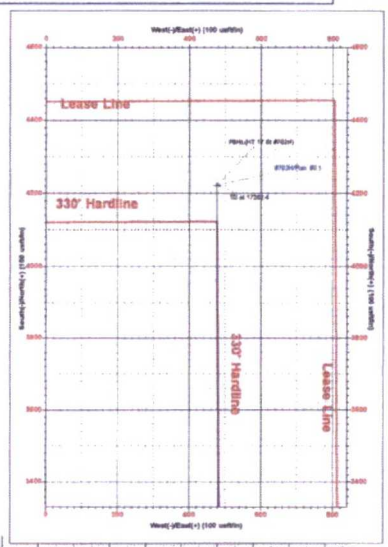
No casing data is available

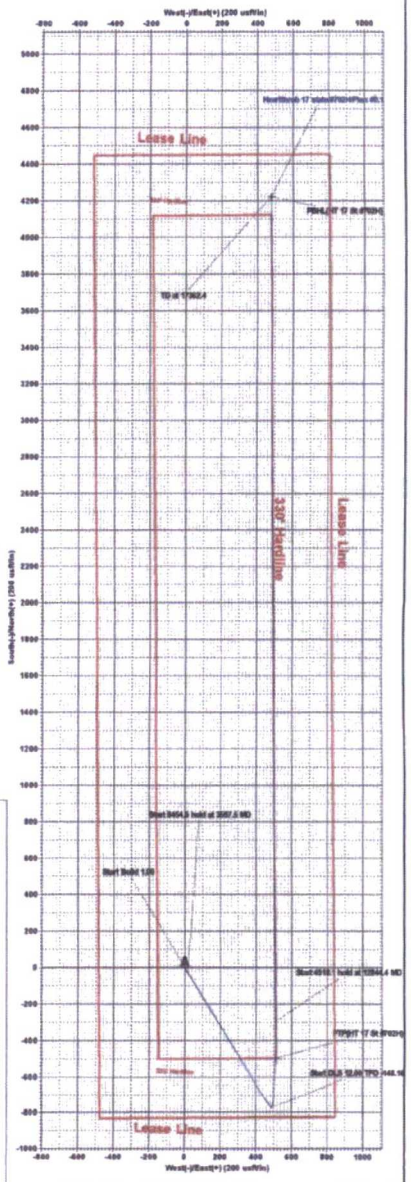
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

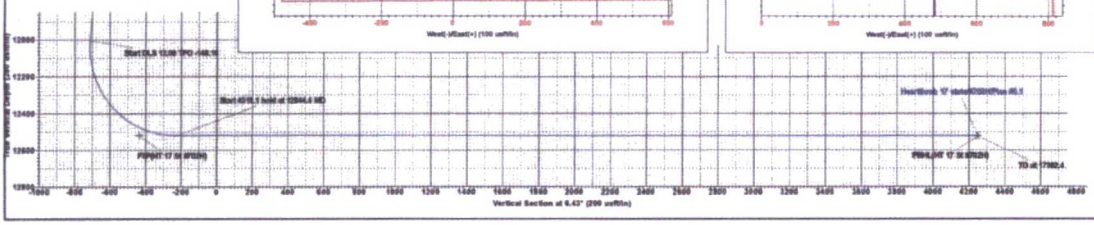
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP(HT 17 St #702H)	12524.0	-496.0	611.0	441391.00	768244.00
PBHL(HT 17 St #702H)	12524.0	4222.0	476.0	446109.00	768209.00

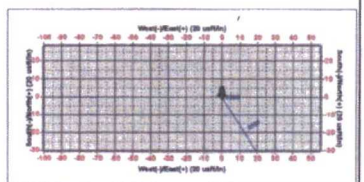


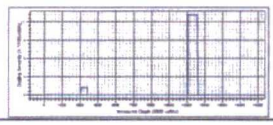












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Heartthrob 17 state
#702H

OH

Plan: Plan #0.1

Standard Planning Report

19 October, 2017

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #702H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3571.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3571.0usft
Site:	Heartthrob 17 state	**North Reference:**	Grid
Well:	#702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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 #702H

Well Position	**+N/-S**	1.0 usft	**Northing:**	441,887.00 usft	**Latitude:**	32° 12' 45.737 N
	+E/-W	35.0 usft	**Easting:**	767,733.00 usft	**Longitude:**	103° 36' 4.719 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	47,892.47379857

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	6.43

Plan Survey Tool Program **Date** 10/19/2017

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,362.4	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	
3,597.5	5.98	147.88	3,596.4	-26.4	16.6	1.00	1.00	0.00	147.88	
12,052.0	5.98	147.88	12,005.0	-771.7	484.5	0.00	0.00	0.00	0.00	
12,844.4	90.00	359.57	12,524.0	-295.9	509.5	12.00	10.60	-18.72	-148.16	
17,362.4	90.00	359.57	12,524.0	4,222.0	476.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #702H

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #702H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3571.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3571.0usft
Site:	Heartthrob 17 state	**North Reference:**	Grid
Well:	#702H	**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)
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	147.88	3,100.0	-0.7	0.5	-0.7	1.00	1.00	0.00
3,200.0	2.00	147.88	3,200.0	-3.0	1.9	-2.7	1.00	1.00	0.00
3,300.0	3.00	147.88	3,299.9	-6.7	4.2	-6.1	1.00	1.00	0.00
3,400.0	4.00	147.88	3,399.7	-11.8	7.4	-10.9	1.00	1.00	0.00
3,500.0	5.00	147.88	3,499.4	-18.5	11.6	-17.1	1.00	1.00	0.00
3,597.5	5.98	147.88	3,596.4	-26.4	16.6	-24.3	1.00	1.00	0.00
3,600.0	5.98	147.88	3,598.9	-26.6	16.7	-24.5	0.00	0.00	0.00
3,700.0	5.98	147.88	3,698.4	-35.4	22.2	-32.7	0.00	0.00	0.00
3,800.0	5.98	147.88	3,797.8	-44.2	27.8	-40.8	0.00	0.00	0.00
3,900.0	5.98	147.88	3,897.3	-53.0	33.3	-49.0	0.00	0.00	0.00
4,000.0	5.98	147.88	3,996.7	-61.8	38.8	-57.1	0.00	0.00	0.00
4,100.0	5.98	147.88	4,096.2	-70.7	44.4	-65.2	0.00	0.00	0.00
4,200.0	5.98	147.88	4,195.6	-79.5	49.9	-73.4	0.00	0.00	0.00
4,300.0	5.98	147.88	4,295.1	-88.3	55.4	-81.5	0.00	0.00	0.00
4,400.0	5.98	147.88	4,394.6	-97.1	61.0	-89.7	0.00	0.00	0.00
4,500.0	5.98	147.88	4,494.0	-105.9	66.5	-97.8	0.00	0.00	0.00
4,600.0	5.98	147.88	4,593.5	-114.7	72.0	-105.9	0.00	0.00	0.00
4,700.0	5.98	147.88	4,692.9	-123.6	77.6	-114.1	0.00	0.00	0.00
4,800.0	5.98	147.88	4,792.4	-132.4	83.1	-122.2	0.00	0.00	0.00
4,900.0	5.98	147.88	4,891.8	-141.2	88.6	-130.4	0.00	0.00	0.00
5,000.0	5.98	147.88	4,991.3	-150.0	94.2	-138.5	0.00	0.00	0.00
5,100.0	5.98	147.88	5,090.8	-158.8	99.7	-146.7	0.00	0.00	0.00
5,200.0	5.98	147.88	5,190.2	-167.6	105.2	-154.8	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #702H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3571.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3571.0usft
Site:	Heartthrob 17 state	**North Reference:**	Grid
Well:	#702H	**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)
5,300.0	5.98	147.88	5,289.7	-176.5	110.8	-162.9	0.00	0.00	0.00
5,400.0	5.98	147.88	5,389.1	-185.3	116.3	-171.1	0.00	0.00	0.00
5,500.0	5.98	147.88	5,488.6	-194.1	121.9	-179.2	0.00	0.00	0.00
5,600.0	5.98	147.88	5,588.0	-202.9	127.4	-187.4	0.00	0.00	0.00
5,700.0	5.98	147.88	5,687.5	-211.7	132.9	-195.5	0.00	0.00	0.00
5,800.0	5.98	147.88	5,787.0	-220.5	138.5	-203.6	0.00	0.00	0.00
5,900.0	5.98	147.88	5,886.4	-229.4	144.0	-211.8	0.00	0.00	0.00
6,000.0	5.98	147.88	5,985.9	-238.2	149.5	-219.9	0.00	0.00	0.00
6,100.0	5.98	147.88	6,085.3	-247.0	155.1	-228.1	0.00	0.00	0.00
6,200.0	5.98	147.88	6,184.8	-255.8	160.6	-236.2	0.00	0.00	0.00
6,300.0	5.98	147.88	6,284.2	-264.6	166.1	-244.3	0.00	0.00	0.00
6,400.0	5.98	147.88	6,383.7	-273.4	171.7	-252.5	0.00	0.00	0.00
6,500.0	5.98	147.88	6,483.1	-282.2	177.2	-260.6	0.00	0.00	0.00
6,600.0	5.98	147.88	6,582.6	-291.1	182.7	-268.8	0.00	0.00	0.00
6,700.0	5.98	147.88	6,682.1	-299.9	188.3	-276.9	0.00	0.00	0.00
6,800.0	5.98	147.88	6,781.5	-308.7	193.8	-285.0	0.00	0.00	0.00
6,900.0	5.98	147.88	6,881.0	-317.5	199.3	-293.2	0.00	0.00	0.00
7,000.0	5.98	147.88	6,980.4	-326.3	204.9	-301.3	0.00	0.00	0.00
7,100.0	5.98	147.88	7,079.9	-335.1	210.4	-309.5	0.00	0.00	0.00
7,200.0	5.98	147.88	7,179.3	-344.0	215.9	-317.6	0.00	0.00	0.00
7,300.0	5.98	147.88	7,278.8	-352.8	221.5	-325.7	0.00	0.00	0.00
7,400.0	5.98	147.88	7,378.3	-361.6	227.0	-333.9	0.00	0.00	0.00
7,500.0	5.98	147.88	7,477.7	-370.4	232.6	-342.0	0.00	0.00	0.00
7,600.0	5.98	147.88	7,577.2	-379.2	238.1	-350.2	0.00	0.00	0.00
7,700.0	5.98	147.88	7,676.6	-388.0	243.6	-358.3	0.00	0.00	0.00
7,800.0	5.98	147.88	7,776.1	-396.9	249.2	-366.4	0.00	0.00	0.00
7,900.0	5.98	147.88	7,875.5	-405.7	254.7	-374.6	0.00	0.00	0.00
8,000.0	5.98	147.88	7,975.0	-414.5	260.2	-382.7	0.00	0.00	0.00
8,100.0	5.98	147.88	8,074.5	-423.3	265.8	-390.9	0.00	0.00	0.00
8,200.0	5.98	147.88	8,173.9	-432.1	271.3	-399.0	0.00	0.00	0.00
8,300.0	5.98	147.88	8,273.4	-440.9	276.8	-407.1	0.00	0.00	0.00
8,400.0	5.98	147.88	8,372.8	-449.8	282.4	-415.3	0.00	0.00	0.00
8,500.0	5.98	147.88	8,472.3	-458.6	287.9	-423.4	0.00	0.00	0.00
8,600.0	5.98	147.88	8,571.7	-467.4	293.4	-431.6	0.00	0.00	0.00
8,700.0	5.98	147.88	8,671.2	-476.2	299.0	-439.7	0.00	0.00	0.00
8,800.0	5.98	147.88	8,770.7	-485.0	304.5	-447.8	0.00	0.00	0.00
8,900.0	5.98	147.88	8,870.1	-493.8	310.0	-456.0	0.00	0.00	0.00
9,000.0	5.98	147.88	8,969.6	-502.6	315.6	-464.1	0.00	0.00	0.00
9,100.0	5.98	147.88	9,069.0	-511.5	321.1	-472.3	0.00	0.00	0.00
9,200.0	5.98	147.88	9,168.5	-520.3	326.6	-480.4	0.00	0.00	0.00
9,300.0	5.98	147.88	9,267.9	-529.1	332.2	-488.6	0.00	0.00	0.00
9,400.0	5.98	147.88	9,367.4	-537.9	337.7	-496.7	0.00	0.00	0.00
9,500.0	5.98	147.88	9,466.9	-546.7	343.3	-504.8	0.00	0.00	0.00
9,600.0	5.98	147.88	9,566.3	-555.5	348.8	-513.0	0.00	0.00	0.00
9,700.0	5.98	147.88	9,665.8	-564.4	354.3	-521.1	0.00	0.00	0.00
9,800.0	5.98	147.88	9,765.2	-573.2	359.9	-529.3	0.00	0.00	0.00
9,900.0	5.98	147.88	9,864.7	-582.0	365.4	-537.4	0.00	0.00	0.00
10,000.0	5.98	147.88	9,964.1	-590.8	370.9	-545.5	0.00	0.00	0.00
10,100.0	5.98	147.88	10,063.6	-599.6	376.5	-553.7	0.00	0.00	0.00
10,200.0	5.98	147.88	10,163.0	-608.4	382.0	-561.8	0.00	0.00	0.00
10,300.0	5.98	147.88	10,262.5	-617.3	387.5	-570.0	0.00	0.00	0.00
10,400.0	5.98	147.88	10,362.0	-626.1	393.1	-578.1	0.00	0.00	0.00
10,500.0	5.98	147.88	10,461.4	-634.9	398.6	-586.2	0.00	0.00	0.00
10,600.0	5.98	147.88	10,560.9	-643.7	404.1	-594.4	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #702H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3571.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3571.0usft
Site:	Heartthrob 17 state	**North Reference:**	Grid
Well:	#702H	**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)
10,700.0	5.98	147.88	10,660.3	-652.5	409.7	-602.5	0.00	0.00	0.00
10,800.0	5.98	147.88	10,759.8	-661.3	415.2	-610.7	0.00	0.00	0.00
10,900.0	5.98	147.88	10,859.2	-670.2	420.7	-618.8	0.00	0.00	0.00
11,000.0	5.98	147.88	10,958.7	-679.0	426.3	-626.9	0.00	0.00	0.00
11,100.0	5.98	147.88	11,058.2	-687.8	431.8	-635.1	0.00	0.00	0.00
11,200.0	5.98	147.88	11,157.6	-696.6	437.3	-643.2	0.00	0.00	0.00
11,300.0	5.98	147.88	11,257.1	-705.4	442.9	-651.4	0.00	0.00	0.00
11,400.0	5.98	147.88	11,356.5	-714.2	448.4	-659.5	0.00	0.00	0.00
11,500.0	5.98	147.88	11,456.0	-723.0	453.9	-667.6	0.00	0.00	0.00
11,600.0	5.98	147.88	11,555.4	-731.9	459.5	-675.8	0.00	0.00	0.00
11,700.0	5.98	147.88	11,654.9	-740.7	465.0	-683.9	0.00	0.00	0.00
11,800.0	5.98	147.88	11,754.4	-749.5	470.6	-692.1	0.00	0.00	0.00
11,900.0	5.98	147.88	11,853.8	-758.3	476.1	-700.2	0.00	0.00	0.00
12,000.0	5.98	147.88	11,953.3	-767.1	481.6	-708.3	0.00	0.00	0.00
12,052.0	5.98	147.88	12,005.0	-771.7	484.5	-712.6	0.00	0.00	0.00
12,075.0	3.91	126.07	12,027.9	-773.2	485.8	-713.9	12.00	-8.98	-94.99
12,100.0	3.22	77.49	12,052.9	-773.5	487.1	-714.1	12.00	-2.78	-194.32
12,125.0	4.84	40.11	12,077.8	-772.6	488.5	-713.0	12.00	6.47	-149.51
12,150.0	7.38	24.72	12,102.7	-770.3	489.9	-710.6	12.00	10.16	-61.59
12,175.0	10.17	17.43	12,127.4	-766.8	491.2	-706.9	12.00	11.17	-29.14
12,200.0	13.05	13.30	12,151.9	-761.9	492.5	-701.9	12.00	11.54	-16.53
12,225.0	15.98	10.65	12,176.0	-755.8	493.8	-695.7	12.00	11.71	-10.60
12,250.0	18.93	8.80	12,199.9	-748.4	495.0	-688.2	12.00	11.80	-7.38
12,275.0	21.89	7.44	12,223.3	-739.8	496.3	-679.5	12.00	11.85	-5.45
12,300.0	24.86	6.39	12,246.3	-729.9	497.5	-669.6	12.00	11.88	-4.20
12,325.0	27.84	5.55	12,268.7	-718.9	498.6	-658.5	12.00	11.91	-3.35
12,350.0	30.82	4.86	12,290.5	-706.7	499.7	-646.2	12.00	11.92	-2.75
12,375.0	33.80	4.29	12,311.6	-693.4	500.8	-632.9	12.00	11.94	-2.31
12,400.0	36.79	3.79	12,332.0	-679.0	501.8	-618.5	12.00	11.95	-1.98
12,425.0	39.78	3.36	12,351.6	-663.5	502.8	-603.0	12.00	11.95	-1.72
12,450.0	42.77	2.98	12,370.4	-647.0	503.7	-586.5	12.00	11.96	-1.52
12,475.0	45.76	2.65	12,388.3	-629.6	504.5	-569.1	12.00	11.96	-1.35
12,500.0	48.75	2.34	12,405.3	-611.3	505.3	-550.8	12.00	11.97	-1.22
12,525.0	51.74	2.06	12,421.3	-592.1	506.1	-531.6	12.00	11.97	-1.12
12,550.0	54.73	1.80	12,436.2	-572.0	506.7	-511.7	12.00	11.97	-1.03
12,575.0	57.73	1.57	12,450.1	-551.3	507.3	-491.0	12.00	11.97	-0.95
12,600.0	60.72	1.34	12,462.9	-529.8	507.9	-469.6	12.00	11.98	-0.89
12,625.0	63.72	1.13	12,474.6	-507.7	508.4	-447.5	12.00	11.98	-0.84
12,650.0	66.71	0.93	12,485.0	-485.0	508.8	-425.0	12.00	11.98	-0.80
12,654.3	67.22	0.90	12,486.7	-481.1	508.8	-421.0	12.00	11.98	-0.78
FTP(HT 17 St #702H)									
12,675.0	69.71	0.74	12,494.3	-461.8	509.1	-401.9	12.00	11.98	-0.76
12,700.0	72.70	0.56	12,502.4	-438.1	509.4	-378.3	12.00	11.98	-0.74
12,725.0	75.70	0.38	12,509.2	-414.1	509.6	-354.4	12.00	11.98	-0.71
12,750.0	78.69	0.21	12,514.7	-389.7	509.7	-330.2	12.00	11.98	-0.69
12,775.0	81.69	0.04	12,519.0	-365.1	509.8	-305.7	12.00	11.98	-0.68
12,800.0	84.68	359.87	12,521.9	-340.3	509.7	-281.0	12.00	11.98	-0.67
12,825.0	87.68	359.70	12,523.6	-315.3	509.6	-256.2	12.00	11.98	-0.66
12,844.4	90.00	359.57	12,524.0	-295.9	509.5	-237.0	12.00	11.98	-0.66
12,900.0	90.00	359.57	12,524.0	-240.3	509.1	-181.8	0.00	0.00	0.00
13,000.0	90.00	359.57	12,524.0	-140.3	508.4	-82.5	0.00	0.00	0.00
13,100.0	90.00	359.57	12,524.0	-40.3	507.6	16.8	0.00	0.00	0.00
13,200.0	90.00	359.57	12,524.0	59.7	506.9	116.1	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #702H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3571.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3571.0usft
Site:	Heartthrob 17 state	**North Reference:**	Grid
Well:	#702H	**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)
13,300.0	90.00	359.57	12,524.0	159.7	506.1	215.4	0.00	0.00	0.00
13,400.0	90.00	359.57	12,524.0	259.7	505.4	314.7	0.00	0.00	0.00
13,500.0	90.00	359.57	12,524.0	359.7	504.7	413.9	0.00	0.00	0.00
13,600.0	90.00	359.57	12,524.0	459.7	503.9	513.2	0.00	0.00	0.00
13,700.0	90.00	359.57	12,524.0	559.7	503.2	612.5	0.00	0.00	0.00
13,800.0	90.00	359.57	12,524.0	659.7	502.4	711.8	0.00	0.00	0.00
13,900.0	90.00	359.57	12,524.0	759.7	501.7	811.1	0.00	0.00	0.00
14,000.0	90.00	359.57	12,524.0	859.6	500.9	910.4	0.00	0.00	0.00
14,100.0	90.00	359.57	12,524.0	959.6	500.2	1,009.6	0.00	0.00	0.00
14,200.0	90.00	359.57	12,524.0	1,059.6	499.5	1,108.9	0.00	0.00	0.00
14,300.0	90.00	359.57	12,524.0	1,159.6	498.7	1,208.2	0.00	0.00	0.00
14,400.0	90.00	359.57	12,524.0	1,259.6	498.0	1,307.5	0.00	0.00	0.00
14,500.0	90.00	359.57	12,524.0	1,359.6	497.2	1,406.8	0.00	0.00	0.00
14,600.0	90.00	359.57	12,524.0	1,459.6	496.5	1,506.1	0.00	0.00	0.00
14,700.0	90.00	359.57	12,524.0	1,559.6	495.8	1,605.4	0.00	0.00	0.00
14,800.0	90.00	359.57	12,524.0	1,659.6	495.0	1,704.6	0.00	0.00	0.00
14,900.0	90.00	359.57	12,524.0	1,759.6	494.3	1,803.9	0.00	0.00	0.00
15,000.0	90.00	359.57	12,524.0	1,859.6	493.5	1,903.2	0.00	0.00	0.00
15,100.0	90.00	359.57	12,524.0	1,959.6	492.8	2,002.5	0.00	0.00	0.00
15,200.0	90.00	359.57	12,524.0	2,059.6	492.0	2,101.8	0.00	0.00	0.00
15,300.0	90.00	359.57	12,524.0	2,159.6	491.3	2,201.1	0.00	0.00	0.00
15,400.0	90.00	359.57	12,524.0	2,259.6	490.6	2,300.3	0.00	0.00	0.00
15,500.0	90.00	359.57	12,524.0	2,359.6	489.8	2,399.6	0.00	0.00	0.00
15,600.0	90.00	359.57	12,524.0	2,459.6	489.1	2,498.9	0.00	0.00	0.00
15,700.0	90.00	359.57	12,524.0	2,559.6	488.3	2,598.2	0.00	0.00	0.00
15,800.0	90.00	359.57	12,524.0	2,659.6	487.6	2,697.5	0.00	0.00	0.00
15,900.0	90.00	359.57	12,524.0	2,759.6	486.8	2,796.8	0.00	0.00	0.00
16,000.0	90.00	359.57	12,524.0	2,859.6	486.1	2,896.1	0.00	0.00	0.00
16,100.0	90.00	359.57	12,524.0	2,959.6	485.4	2,995.3	0.00	0.00	0.00
16,200.0	90.00	359.57	12,524.0	3,059.6	484.6	3,094.6	0.00	0.00	0.00
16,300.0	90.00	359.57	12,524.0	3,159.6	483.9	3,193.9	0.00	0.00	0.00
16,400.0	90.00	359.57	12,524.0	3,259.6	483.1	3,293.2	0.00	0.00	0.00
16,500.0	90.00	359.57	12,524.0	3,359.6	482.4	3,392.5	0.00	0.00	0.00
16,600.0	90.00	359.57	12,524.0	3,459.6	481.7	3,491.8	0.00	0.00	0.00
16,700.0	90.00	359.57	12,524.0	3,559.6	480.9	3,591.0	0.00	0.00	0.00
16,800.0	90.00	359.57	12,524.0	3,659.6	480.2	3,690.3	0.00	0.00	0.00
16,900.0	90.00	359.57	12,524.0	3,759.6	479.4	3,789.6	0.00	0.00	0.00
17,000.0	90.00	359.57	12,524.0	3,859.6	478.7	3,888.9	0.00	0.00	0.00
17,100.0	90.00	359.57	12,524.0	3,959.6	477.9	3,988.2	0.00	0.00	0.00
17,200.0	90.00	359.57	12,524.0	4,059.6	477.2	4,087.5	0.00	0.00	0.00
17,300.0	90.00	359.57	12,524.0	4,159.6	476.5	4,186.8	0.00	0.00	0.00
17,362.4	90.00	359.57	12,524.0	4,222.0	476.0	4,248.7	0.00	0.00	0.00
PBHL(HT 17 St #702H)									

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #702H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3571.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3571.0usft
Site:	Heartthrob 17 state	**North Reference:**	Grid
Well:	#702H	**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
PBHL(HT 17 St #702H) - plan hits target center - Point	0.00	0.01	12,524.0	4,222.0	476.0	446,109.00	768,209.00	32° 13' 27.483 N	103° 35' 58.843 W
FTP(HT 17 St #702H) - plan misses target center by 40.2usft at 12654.3usft MD (12486.7 TVD, -481.1 N, 508.8 E) - Point	0.00	0.01	12,524.0	-496.0	511.0	441,391.00	768,244.00	32° 12' 40.795 N	103° 35' 58.811 W