30-025-45140

OCD – HOBBS
08/24/2018
RECEIVED

eog resources

Lea County, NM (NAD 83 NME)

Heartthrob 17 state #705H

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: -0.40°
Magnetic North: 6.44°

Magnetic Field
Strength: 47806.1snT
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°

WELL DETAILS: #705H

3568.0
KB = 25 @ 3593.0usft

Northing	Easting	Latitude	Longitude
441519.00	771137.00	32° 12' 41.865 N	103° 35' 25.128 W

SECTION DETAILS

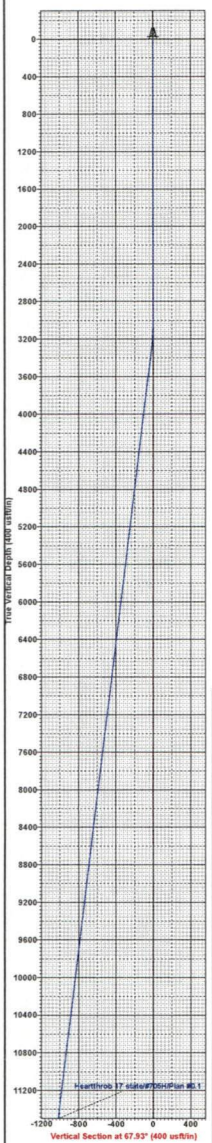
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3347.8	6.96	247.93	3346.9	-7.9	-19.5	2.00	247.93	-3.6	
4	11767.4	6.96	247.93	11704.6	-391.1	-964.5	0.00	0.00	-178.6	
5	12115.2	0.00	0.00	12051.5	-399.0	-984.0	2.00	180.00	-182.2	KOP(HT 17 St #705H)
6	12865.2	90.00	359.58	12529.0	78.4	-987.5	12.00	359.58	285.2	
7	17517.9	90.00	359.58	12529.0	4731.0	-1022.0	0.00	0.00	4840.1	PBHL(HT 17 St #705H)

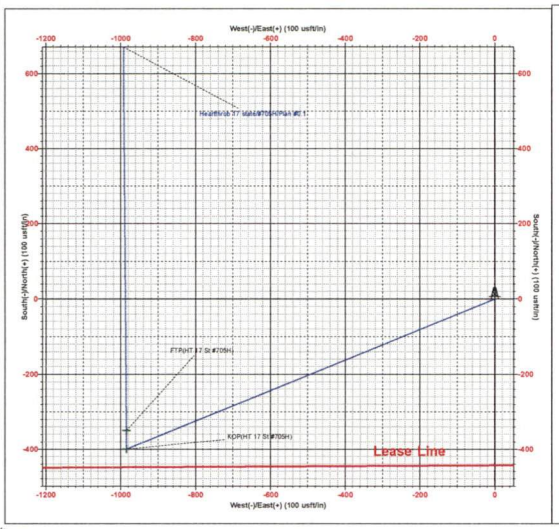
CASING DETAILS

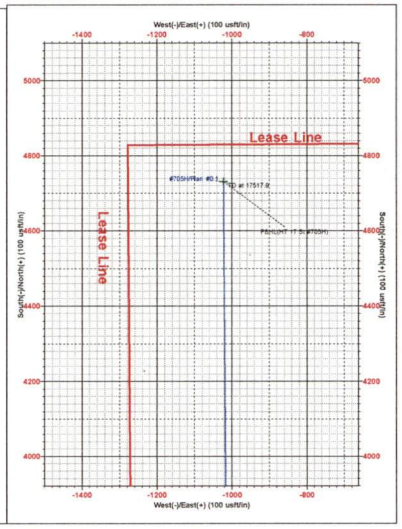
No casing data is available

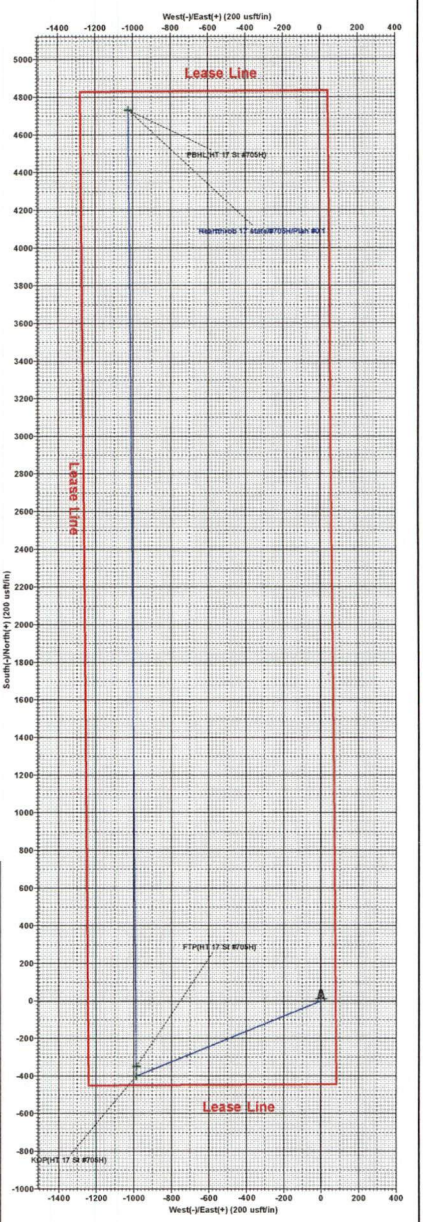
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

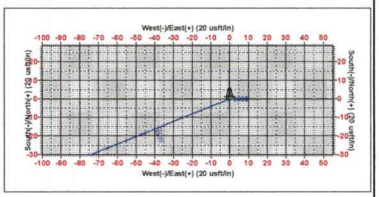
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(HT 17 St #705H)	12051.5	-399.0	-984.0	441120.00	770153.00
FTP(HT 17 St #705H)	12529.0	-349.0	-984.0	441170.00	770153.00
PBHL(HT 17 St #705H)	12529.0	4731.0	-1022.0	446250.00	770115.00

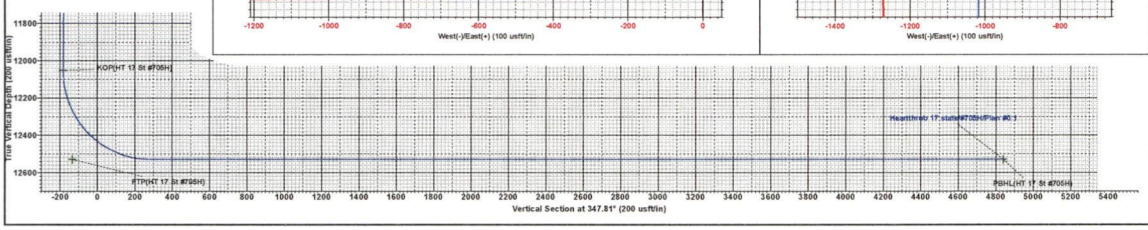


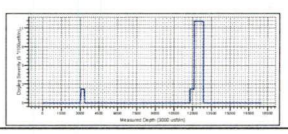












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Heartthrob 17 state
#705H

OH

Plan: Plan #0.1

Standard Planning Report

23 August, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
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:	#705H	**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	#705H				
Well Position	**+N/-S**	-367.0 usft	**Northing:**	441,519.00 usft	**Latitude:**	32° 12' 41.865 N
	+E/-W	3,439.0 usft	**Easting:**	771,137.00 usft	**Longitude:**	103° 35' 25.128 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	47,806.06844905

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	347.81

Plan Survey Tool Program **Date** 8/23/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,517.9	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	
3,347.8	6.96	247.93	3,346.9	-7.9	-19.5	2.00	2.00	0.00	247.93	
11,767.4	6.96	247.93	11,704.6	-391.1	-964.5	0.00	0.00	0.00	0.00	
12,115.2	0.00	0.01	12,051.5	-399.0	-984.0	2.00	-2.00	0.00	180.00	KOP(HT 17 St #705H
12,865.2	90.00	359.58	12,529.0	78.4	-987.5	12.00	12.00	-0.06	359.58	
17,517.9	90.00	359.58	12,529.0	4,731.0	-1,022.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #705H

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
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:	#705H	**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	2.00	247.93	3,100.0	-0.7	-1.6	-0.3	2.00	2.00	0.00
3,200.0	4.00	247.93	3,199.8	-2.6	-6.5	-1.2	2.00	2.00	0.00
3,300.0	6.00	247.93	3,299.5	-5.9	-14.5	-2.7	2.00	2.00	0.00
3,347.8	6.96	247.93	3,346.9	-7.9	-19.5	-3.6	2.00	2.00	0.00
3,400.0	6.96	247.93	3,398.8	-10.3	-25.4	-4.7	0.00	0.00	0.00
3,500.0	6.96	247.93	3,498.0	-14.8	-36.6	-6.8	0.00	0.00	0.00
3,600.0	6.96	247.93	3,597.3	-19.4	-47.8	-8.9	0.00	0.00	0.00
3,700.0	6.96	247.93	3,696.6	-24.0	-59.1	-10.9	0.00	0.00	0.00
3,800.0	6.96	247.93	3,795.8	-28.5	-70.3	-13.0	0.00	0.00	0.00
3,900.0	6.96	247.93	3,895.1	-33.1	-81.5	-15.1	0.00	0.00	0.00
4,000.0	6.96	247.93	3,994.3	-37.6	-92.7	-17.2	0.00	0.00	0.00
4,100.0	6.96	247.93	4,093.6	-42.2	-104.0	-19.3	0.00	0.00	0.00
4,200.0	6.96	247.93	4,192.9	-46.7	-115.2	-21.3	0.00	0.00	0.00
4,300.0	6.96	247.93	4,292.1	-51.3	-126.4	-23.4	0.00	0.00	0.00
4,400.0	6.96	247.93	4,391.4	-55.8	-137.6	-25.5	0.00	0.00	0.00
4,500.0	6.96	247.93	4,490.7	-60.4	-148.9	-27.6	0.00	0.00	0.00
4,600.0	6.96	247.93	4,589.9	-64.9	-160.1	-29.6	0.00	0.00	0.00
4,700.0	6.96	247.93	4,689.2	-69.5	-171.3	-31.7	0.00	0.00	0.00
4,800.0	6.96	247.93	4,788.5	-74.0	-182.5	-33.8	0.00	0.00	0.00
4,900.0	6.96	247.93	4,887.7	-78.6	-193.7	-35.9	0.00	0.00	0.00
5,000.0	6.96	247.93	4,987.0	-83.1	-205.0	-38.0	0.00	0.00	0.00
5,100.0	6.96	247.93	5,086.2	-87.7	-216.2	-40.0	0.00	0.00	0.00
5,200.0	6.96	247.93	5,185.5	-92.2	-227.4	-42.1	0.00	0.00	0.00

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Site:	Heartthrob 17 state	**North Reference:**	Grid
Well:	#705H	**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	6.96	247.93	5,284.8	-96.8	-238.6	-44.2	0.00	0.00	0.00
5,400.0	6.96	247.93	5,384.0	-101.3	-249.9	-46.3	0.00	0.00	0.00
5,500.0	6.96	247.93	5,483.3	-105.9	-261.1	-48.4	0.00	0.00	0.00
5,600.0	6.96	247.93	5,582.6	-110.4	-272.3	-50.4	0.00	0.00	0.00
5,700.0	6.96	247.93	5,681.8	-115.0	-283.5	-52.5	0.00	0.00	0.00
5,800.0	6.96	247.93	5,781.1	-119.5	-294.7	-54.6	0.00	0.00	0.00
5,900.0	6.96	247.93	5,880.4	-124.1	-306.0	-56.7	0.00	0.00	0.00
6,000.0	6.96	247.93	5,979.6	-128.6	-317.2	-58.7	0.00	0.00	0.00
6,100.0	6.96	247.93	6,078.9	-133.2	-328.4	-60.8	0.00	0.00	0.00
6,200.0	6.96	247.93	6,178.2	-137.7	-339.6	-62.9	0.00	0.00	0.00
6,300.0	6.96	247.93	6,277.4	-142.3	-350.9	-65.0	0.00	0.00	0.00
6,400.0	6.96	247.93	6,376.7	-146.8	-362.1	-67.1	0.00	0.00	0.00
6,500.0	6.96	247.93	6,475.9	-151.4	-373.3	-69.1	0.00	0.00	0.00
6,600.0	6.96	247.93	6,575.2	-155.9	-384.5	-71.2	0.00	0.00	0.00
6,700.0	6.96	247.93	6,674.5	-160.5	-395.8	-73.3	0.00	0.00	0.00
6,800.0	6.96	247.93	6,773.7	-165.0	-407.0	-75.4	0.00	0.00	0.00
6,900.0	6.96	247.93	6,873.0	-169.6	-418.2	-77.4	0.00	0.00	0.00
7,000.0	6.96	247.93	6,972.3	-174.1	-429.4	-79.5	0.00	0.00	0.00
7,100.0	6.96	247.93	7,071.5	-178.7	-440.6	-81.6	0.00	0.00	0.00
7,200.0	6.96	247.93	7,170.8	-183.2	-451.9	-83.7	0.00	0.00	0.00
7,300.0	6.96	247.93	7,270.1	-187.8	-463.1	-85.8	0.00	0.00	0.00
7,400.0	6.96	247.93	7,369.3	-192.3	-474.3	-87.8	0.00	0.00	0.00
7,500.0	6.96	247.93	7,468.6	-196.9	-485.5	-89.9	0.00	0.00	0.00
7,600.0	6.96	247.93	7,567.8	-201.4	-496.8	-92.0	0.00	0.00	0.00
7,700.0	6.96	247.93	7,667.1	-206.0	-508.0	-94.1	0.00	0.00	0.00
7,800.0	6.96	247.93	7,766.4	-210.5	-519.2	-96.2	0.00	0.00	0.00
7,900.0	6.96	247.93	7,865.6	-215.1	-530.4	-98.2	0.00	0.00	0.00
8,000.0	6.96	247.93	7,964.9	-219.6	-541.7	-100.3	0.00	0.00	0.00
8,100.0	6.96	247.93	8,064.2	-224.2	-552.9	-102.4	0.00	0.00	0.00
8,200.0	6.96	247.93	8,163.4	-228.7	-564.1	-104.5	0.00	0.00	0.00
8,300.0	6.96	247.93	8,262.7	-233.3	-575.3	-106.5	0.00	0.00	0.00
8,400.0	6.96	247.93	8,362.0	-237.8	-586.5	-108.6	0.00	0.00	0.00
8,500.0	6.96	247.93	8,461.2	-242.4	-597.8	-110.7	0.00	0.00	0.00
8,600.0	6.96	247.93	8,560.5	-246.9	-609.0	-112.8	0.00	0.00	0.00
8,700.0	6.96	247.93	8,659.8	-251.5	-620.2	-114.9	0.00	0.00	0.00
8,800.0	6.96	247.93	8,759.0	-256.0	-631.4	-116.9	0.00	0.00	0.00
8,900.0	6.96	247.93	8,858.3	-260.6	-642.7	-119.0	0.00	0.00	0.00
9,000.0	6.96	247.93	8,957.5	-265.1	-653.9	-121.1	0.00	0.00	0.00
9,100.0	6.96	247.93	9,056.8	-269.7	-665.1	-123.2	0.00	0.00	0.00
9,200.0	6.96	247.93	9,156.1	-274.2	-676.3	-125.3	0.00	0.00	0.00
9,300.0	6.96	247.93	9,255.3	-278.8	-687.5	-127.3	0.00	0.00	0.00
9,400.0	6.96	247.93	9,354.6	-283.3	-698.8	-129.4	0.00	0.00	0.00
9,500.0	6.96	247.93	9,453.9	-287.9	-710.0	-131.5	0.00	0.00	0.00
9,600.0	6.96	247.93	9,553.1	-292.4	-721.2	-133.6	0.00	0.00	0.00
9,700.0	6.96	247.93	9,652.4	-297.0	-732.4	-135.6	0.00	0.00	0.00
9,800.0	6.96	247.93	9,751.7	-301.5	-743.7	-137.7	0.00	0.00	0.00
9,900.0	6.96	247.93	9,850.9	-306.1	-754.9	-139.8	0.00	0.00	0.00
10,000.0	6.96	247.93	9,950.2	-310.6	-766.1	-141.9	0.00	0.00	0.00
10,100.0	6.96	247.93	10,049.4	-315.2	-777.3	-144.0	0.00	0.00	0.00
10,200.0	6.96	247.93	10,148.7	-319.7	-788.6	-146.0	0.00	0.00	0.00
10,300.0	6.96	247.93	10,248.0	-324.3	-799.8	-148.1	0.00	0.00	0.00
10,400.0	6.96	247.93	10,347.2	-328.9	-811.0	-150.2	0.00	0.00	0.00
10,500.0	6.96	247.93	10,446.5	-333.4	-822.2	-152.3	0.00	0.00	0.00
10,600.0	6.96	247.93	10,545.8	-338.0	-833.4	-154.3	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
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:	#705H	**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	6.96	247.93	10,645.0	-342.5	-844.7	-156.4	0.00	0.00	0.00
10,800.0	6.96	247.93	10,744.3	-347.1	-855.9	-158.5	0.00	0.00	0.00
10,900.0	6.96	247.93	10,843.6	-351.6	-867.1	-160.6	0.00	0.00	0.00
11,000.0	6.96	247.93	10,942.8	-356.2	-878.3	-162.7	0.00	0.00	0.00
11,100.0	6.96	247.93	11,042.1	-360.7	-889.6	-164.7	0.00	0.00	0.00
11,200.0	6.96	247.93	11,141.4	-365.3	-900.8	-166.8	0.00	0.00	0.00
11,300.0	6.96	247.93	11,240.6	-369.8	-912.0	-168.9	0.00	0.00	0.00
11,400.0	6.96	247.93	11,339.9	-374.4	-923.2	-171.0	0.00	0.00	0.00
11,500.0	6.96	247.93	11,439.1	-378.9	-934.5	-173.1	0.00	0.00	0.00
11,600.0	6.96	247.93	11,538.4	-383.5	-945.7	-175.1	0.00	0.00	0.00
11,700.0	6.96	247.93	11,637.7	-388.0	-956.9	-177.2	0.00	0.00	0.00
11,767.4	6.96	247.93	11,704.6	-391.1	-964.5	-178.6	0.00	0.00	0.00
11,800.0	6.30	247.93	11,737.0	-392.5	-967.9	-179.3	2.00	-2.00	0.00
11,900.0	4.30	247.93	11,836.5	-396.0	-976.5	-180.8	2.00	-2.00	0.00
12,000.0	2.30	247.93	11,936.4	-398.1	-981.9	-181.8	2.00	-2.00	0.00
12,100.0	0.30	247.93	12,036.3	-399.0	-984.0	-182.2	2.00	-2.00	0.00
12,115.2	0.00	0.01	12,051.5	-399.0	-984.0	-182.2	2.00	-2.00	0.00
KOP(HT 17 St #705H)									
12,125.0	1.18	359.58	12,061.3	-398.9	-984.0	-182.1	12.00	12.00	0.00
12,150.0	4.18	359.58	12,086.3	-397.7	-984.0	-181.0	12.00	12.00	0.00
12,175.0	7.18	359.58	12,111.2	-395.3	-984.0	-178.6	12.00	12.00	0.00
12,200.0	10.18	359.58	12,135.9	-391.5	-984.1	-174.9	12.00	12.00	0.00
12,225.0	13.18	359.58	12,160.4	-386.4	-984.1	-169.9	12.00	12.00	0.00
12,250.0	16.18	359.58	12,184.5	-380.1	-984.1	-163.7	12.00	12.00	0.00
12,275.0	19.18	359.58	12,208.4	-372.5	-984.2	-156.3	12.00	12.00	0.00
12,300.0	22.18	359.58	12,231.7	-363.7	-984.3	-147.6	12.00	12.00	0.00
12,325.0	25.18	359.58	12,254.6	-353.6	-984.3	-137.8	12.00	12.00	0.00
12,350.0	28.18	359.58	12,277.0	-342.4	-984.4	-126.8	12.00	12.00	0.00
12,375.0	31.18	359.58	12,298.7	-330.0	-984.5	-114.7	12.00	12.00	0.00
12,400.0	34.18	359.58	12,319.7	-316.5	-984.6	-101.5	12.00	12.00	0.00
12,425.0	37.18	359.58	12,340.0	-302.0	-984.7	-87.2	12.00	12.00	0.00
12,450.0	40.18	359.58	12,359.5	-286.3	-984.8	-71.9	12.00	12.00	0.00
12,475.0	43.18	359.58	12,378.2	-269.7	-985.0	-55.7	12.00	12.00	0.00
12,500.0	46.18	359.58	12,396.0	-252.1	-985.1	-38.5	12.00	12.00	0.00
12,517.9	48.33	359.58	12,408.2	-239.0	-985.2	-25.6	12.00	12.00	0.00
FTP(HT 17 St #705H)									
12,525.0	49.18	359.58	12,412.8	-233.7	-985.2	-20.4	12.00	12.00	0.00
12,550.0	52.18	359.58	12,428.7	-214.3	-985.4	-1.4	12.00	12.00	0.00
12,575.0	55.18	359.58	12,443.5	-194.2	-985.5	18.3	12.00	12.00	0.00
12,600.0	58.18	359.58	12,457.2	-173.3	-985.7	38.7	12.00	12.00	0.00
12,625.0	61.18	359.58	12,469.8	-151.7	-985.8	59.9	12.00	12.00	0.00
12,650.0	64.18	359.58	12,481.3	-129.5	-986.0	81.6	12.00	12.00	0.00
12,675.0	67.18	359.58	12,491.6	-106.7	-986.2	103.9	12.00	12.00	0.00
12,700.0	70.18	359.58	12,500.7	-83.4	-986.3	126.7	12.00	12.00	0.00
12,725.0	73.18	359.58	12,508.5	-59.7	-986.5	149.9	12.00	12.00	0.00
12,750.0	76.18	359.58	12,515.1	-35.6	-986.7	173.5	12.00	12.00	0.00
12,775.0	79.18	359.58	12,520.5	-11.2	-986.9	197.4	12.00	12.00	0.00
12,800.0	82.18	359.58	12,524.5	13.5	-987.1	221.6	12.00	12.00	0.00
12,825.0	85.18	359.58	12,527.3	38.3	-987.2	245.9	12.00	12.00	0.00
12,850.0	88.18	359.58	12,528.7	63.3	-987.4	270.3	12.00	12.00	0.00
12,865.2	90.00	359.58	12,529.0	78.4	-987.5	285.2	12.00	12.00	0.00
12,900.0	90.00	359.58	12,529.0	113.3	-987.8	319.3	0.00	0.00	0.00
13,000.0	90.00	359.58	12,529.0	213.3	-988.5	417.2	0.00	0.00	0.00
13,100.0	90.00	359.58	12,529.0	313.3	-989.3	515.1	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
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:	#705H	**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)
13,200.0	90.00	359.58	12,529.0	413.3	-990.0	613.0	0.00	0.00	0.00
13,300.0	90.00	359.58	12,529.0	513.3	-990.8	710.9	0.00	0.00	0.00
13,400.0	90.00	359.58	12,529.0	613.3	-991.5	808.8	0.00	0.00	0.00
13,500.0	90.00	359.58	12,529.0	713.3	-992.2	906.7	0.00	0.00	0.00
13,600.0	90.00	359.58	12,529.0	813.3	-993.0	1,004.6	0.00	0.00	0.00
13,700.0	90.00	359.58	12,529.0	913.3	-993.7	1,102.5	0.00	0.00	0.00
13,800.0	90.00	359.58	12,529.0	1,013.2	-994.5	1,200.4	0.00	0.00	0.00
13,900.0	90.00	359.58	12,529.0	1,113.2	-995.2	1,298.3	0.00	0.00	0.00
14,000.0	90.00	359.58	12,529.0	1,213.2	-995.9	1,396.2	0.00	0.00	0.00
14,100.0	90.00	359.58	12,529.0	1,313.2	-996.7	1,494.1	0.00	0.00	0.00
14,200.0	90.00	359.58	12,529.0	1,413.2	-997.4	1,592.0	0.00	0.00	0.00
14,300.0	90.00	359.58	12,529.0	1,513.2	-998.2	1,689.9	0.00	0.00	0.00
14,400.0	90.00	359.58	12,529.0	1,613.2	-998.9	1,787.8	0.00	0.00	0.00
14,500.0	90.00	359.58	12,529.0	1,713.2	-999.6	1,885.7	0.00	0.00	0.00
14,600.0	90.00	359.58	12,529.0	1,813.2	-1,000.4	1,983.6	0.00	0.00	0.00
14,700.0	90.00	359.58	12,529.0	1,913.2	-1,001.1	2,081.5	0.00	0.00	0.00
14,800.0	90.00	359.58	12,529.0	2,013.2	-1,001.9	2,179.4	0.00	0.00	0.00
14,900.0	90.00	359.58	12,529.0	2,113.2	-1,002.6	2,277.3	0.00	0.00	0.00
15,000.0	90.00	359.58	12,529.0	2,213.2	-1,003.3	2,375.2	0.00	0.00	0.00
15,100.0	90.00	359.58	12,529.0	2,313.2	-1,004.1	2,473.1	0.00	0.00	0.00
15,200.0	90.00	359.58	12,529.0	2,413.2	-1,004.8	2,571.0	0.00	0.00	0.00
15,300.0	90.00	359.58	12,529.0	2,513.2	-1,005.6	2,668.9	0.00	0.00	0.00
15,400.0	90.00	359.58	12,529.0	2,613.2	-1,006.3	2,766.8	0.00	0.00	0.00
15,500.0	90.00	359.58	12,529.0	2,713.2	-1,007.1	2,864.7	0.00	0.00	0.00
15,600.0	90.00	359.58	12,529.0	2,813.2	-1,007.8	2,962.6	0.00	0.00	0.00
15,700.0	90.00	359.58	12,529.0	2,913.2	-1,008.5	3,060.5	0.00	0.00	0.00
15,800.0	90.00	359.58	12,529.0	3,013.2	-1,009.3	3,158.4	0.00	0.00	0.00
15,900.0	90.00	359.58	12,529.0	3,113.2	-1,010.0	3,256.3	0.00	0.00	0.00
16,000.0	90.00	359.58	12,529.0	3,213.2	-1,010.8	3,354.2	0.00	0.00	0.00
16,100.0	90.00	359.58	12,529.0	3,313.2	-1,011.5	3,452.1	0.00	0.00	0.00
16,200.0	90.00	359.58	12,529.0	3,413.2	-1,012.2	3,550.0	0.00	0.00	0.00
16,300.0	90.00	359.58	12,529.0	3,513.2	-1,013.0	3,647.9	0.00	0.00	0.00
16,400.0	90.00	359.58	12,529.0	3,613.2	-1,013.7	3,745.8	0.00	0.00	0.00
16,500.0	90.00	359.58	12,529.0	3,713.2	-1,014.5	3,843.7	0.00	0.00	0.00
16,600.0	90.00	359.58	12,529.0	3,813.2	-1,015.2	3,941.6	0.00	0.00	0.00
16,700.0	90.00	359.58	12,529.0	3,913.2	-1,015.9	4,039.5	0.00	0.00	0.00
16,800.0	90.00	359.58	12,529.0	4,013.2	-1,016.7	4,137.4	0.00	0.00	0.00
16,900.0	90.00	359.58	12,529.0	4,113.2	-1,017.4	4,235.3	0.00	0.00	0.00
17,000.0	90.00	359.58	12,529.0	4,213.2	-1,018.2	4,333.2	0.00	0.00	0.00
17,100.0	90.00	359.58	12,529.0	4,313.2	-1,018.9	4,431.1	0.00	0.00	0.00
17,200.0	90.00	359.58	12,529.0	4,413.2	-1,019.6	4,529.0	0.00	0.00	0.00
17,300.0	90.00	359.58	12,529.0	4,513.2	-1,020.4	4,626.9	0.00	0.00	0.00
17,400.0	90.00	359.58	12,529.0	4,613.2	-1,021.1	4,724.8	0.00	0.00	0.00
17,500.0	90.00	359.58	12,529.0	4,713.1	-1,021.9	4,822.7	0.00	0.00	0.00
17,517.9	90.00	359.58	12,529.0	4,731.0	-1,022.0	4,840.1	0.00	0.00	0.00
PBHL(HT 17 St #705H)									

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
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:	#705H	**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 #705H) - plan hits target center - Point	0.00	0.01	12,051.5	-399.0	-984.0	441,120.00	770,153.00	32° 12' 37.984 N	103° 35' 36.613 W
PBHL(HT 17 St #705H) - plan hits target center - Point	0.00	0.01	12,529.0	4,731.0	-1,022.0	446,250.00	770,115.00	32° 13' 28.749 N	103° 35' 36.644 W
FTP(HT 17 St #705H) - plan misses target center by 163.4usft at 12517.9usft MD (12408.2 TVD, -239.0 N, -985.2 E) - Point	0.00	0.01	12,529.0	-349.0	-984.0	441,170.00	770,153.00	32° 12' 38.478 N	103° 35' 36.609 W