

30-025-45140



Lea County, NM (NAD 83 NME)

Hearthrob 17 state #705H

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: #705H

KB = 25 @ 3593.8usft 3588.0
Northing 441599.00 Easting 771262.00 Latitude 32° 12' 42.648 N Longitude 103° 35' 23.667 W

SECTION DETAILS

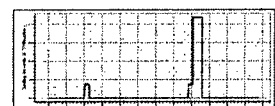
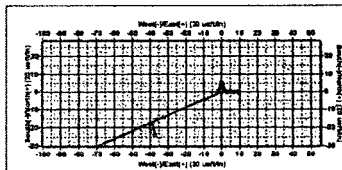
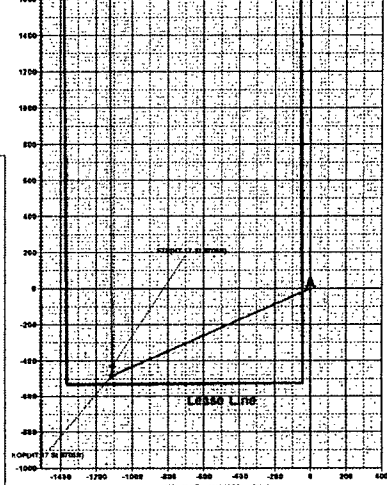
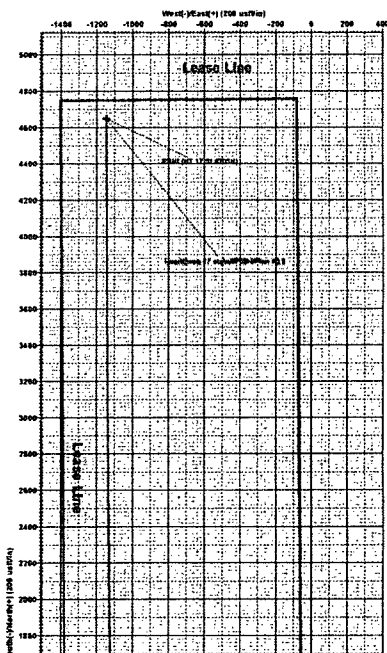
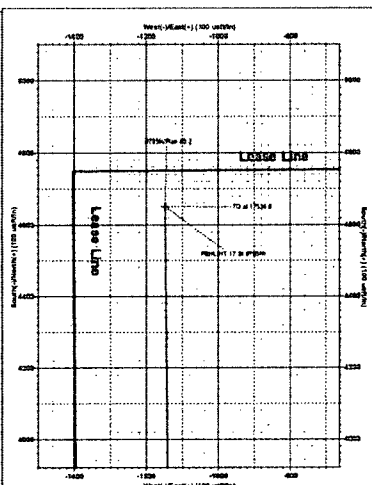
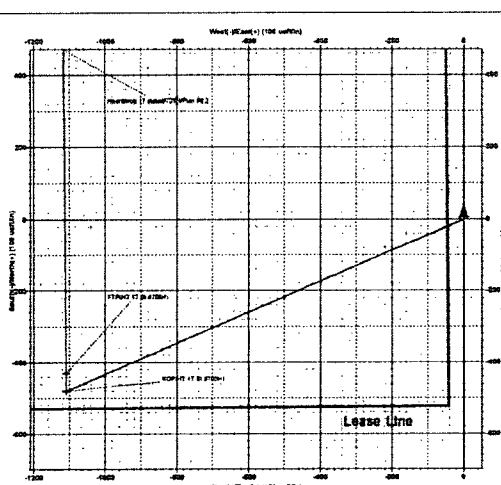
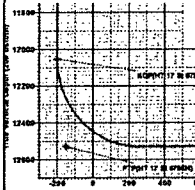
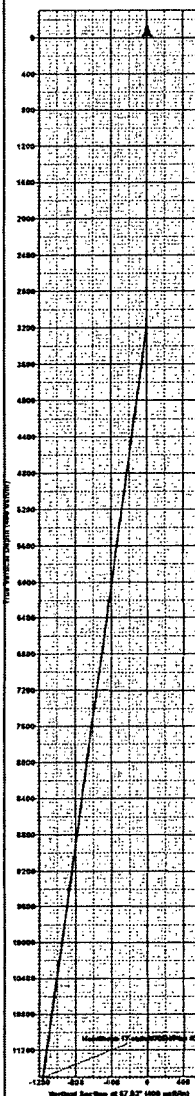
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3397.4	7.95	246.64	3396.1	-10.9	-25.3	2.00	246.64	-4.5	
4	11736.8	7.95	246.64	11655.4	-468.1	-1083.7	0.00	0.00	-195.0	
5	12134.1	0.00	0.01	12051.5	-479.0	-1109.0	2.00	180.00	-199.5	KOP(HT 17 St #705H)
6	12884.1	90.00	359.58	12529.0	-1.6	-1112.5	12.00	359.58	284.9	
7	17538.8	90.00	359.58	12529.0	4851.0	-1147.0	0.00	0.00	4790.3	PBHL(HT 17 St #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(HT 17 St #705H)	12051.5	-479.0	-1109.0	441120.00	770153.00
PT(HT 17 St #705H)	12629.0	-428.9	-1108.0	441170.00	770153.00
PBHL(HT 17 St #705H)	12629.0	4851.0	-1147.0	446260.00	770115.00



Vertical Section of 348.12' (200 usft)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#705H

OH

Plan: Plan #0.2

Standard Planning Report

25 September, 2018

Planning Report

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:	Hearthrob 17 state	North Reference:	Grid
Well:	#705H	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		Hearthrob 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	-287.0 usft	Northing:	441,599.00 usft	Latitude:	32° 12' 42.648 N
	+E/-W	3,564.0 usft	Easting:	771,262.00 usft	Longitude:	103° 35' 23.667 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	47,806.23985388

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	346.15

Plan Survey Tool Program		Date	9/25/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,536.8	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	
3,397.4	7.95	246.64	3,396.1	-10.9	-25.3	2.00	2.00	0.00	246.64	
11,736.8	7.95	246.64	11,655.4	-468.1	-1,083.7	0.00	0.00	0.00	0.00	
12,134.1	0.00	0.01	12,051.5	-479.0	-1,109.0	2.00	-2.00	0.00	180.00	KOP(HT 17 St #705H)
12,884.1	90.00	359.58	12,529.0	-1.6	-1,112.5	12.00	12.00	-0.06	359.58	
17,536.8	90.00	359.58	12,529.0	4,651.0	-1,147.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #705H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #705H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3593.0usft
MD Reference: KB = 25 @ 3593.0usft
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	2.00	246.64	3,100.0	-0.7	-1.6	-0.3	2.00	2.00	0.00
3,200.0	4.00	246.64	3,199.8	-2.8	-6.4	-1.2	2.00	2.00	0.00
3,300.0	6.00	246.64	3,299.5	-6.2	-14.4	-2.6	2.00	2.00	0.00
3,397.4	7.95	246.64	3,396.1	-10.9	-25.3	-4.5	2.00	2.00	0.00
3,400.0	7.95	246.64	3,398.7	-11.1	-25.6	-4.6	0.00	0.00	0.00
3,500.0	7.95	246.64	3,497.7	-16.5	-38.3	-6.9	0.00	0.00	0.00
3,600.0	7.95	246.64	3,596.8	-22.0	-51.0	-9.2	0.00	0.00	0.00
3,700.0	7.95	246.64	3,695.8	-27.5	-63.7	-11.5	0.00	0.00	0.00
3,800.0	7.95	246.64	3,794.9	-33.0	-76.4	-13.7	0.00	0.00	0.00
3,900.0	7.95	246.64	3,893.9	-38.5	-89.1	-16.0	0.00	0.00	0.00
4,000.0	7.95	246.64	3,992.9	-43.9	-101.7	-18.3	0.00	0.00	0.00
4,100.0	7.95	246.64	4,092.0	-49.4	-114.4	-20.6	0.00	0.00	0.00
4,200.0	7.95	246.64	4,191.0	-54.9	-127.1	-22.9	0.00	0.00	0.00
4,300.0	7.95	246.64	4,290.1	-60.4	-139.8	-25.2	0.00	0.00	0.00
4,400.0	7.95	246.64	4,389.1	-65.9	-152.5	-27.4	0.00	0.00	0.00
4,500.0	7.95	246.64	4,488.1	-71.4	-165.2	-29.7	0.00	0.00	0.00
4,600.0	7.95	246.64	4,587.2	-76.8	-177.9	-32.0	0.00	0.00	0.00
4,700.0	7.95	246.64	4,686.2	-82.3	-190.6	-34.3	0.00	0.00	0.00
4,800.0	7.95	246.64	4,785.3	-87.8	-203.3	-36.6	0.00	0.00	0.00
4,900.0	7.95	246.64	4,884.3	-93.3	-216.0	-38.9	0.00	0.00	0.00
5,000.0	7.95	246.64	4,983.3	-98.8	-228.7	-41.1	0.00	0.00	0.00
5,100.0	7.95	246.64	5,082.4	-104.3	-241.4	-43.4	0.00	0.00	0.00
5,200.0	7.95	246.64	5,181.4	-109.7	-254.1	-45.7	0.00	0.00	0.00



Planning Report

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 Project: Lea County, NM (NAD 83 NME)
 Site: Hearthrob 17 state
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25 @ 3593.0usft
 MD Reference: KB = 25 @ 3593.0usft
 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	7.95	246.64	5,280.5	-115.2	-266.8	-48.0	0.00	0.00	0.00
5,400.0	7.95	246.64	5,379.5	-120.7	-279.4	-50.3	0.00	0.00	0.00
5,500.0	7.95	246.64	5,478.5	-126.2	-292.1	-52.6	0.00	0.00	0.00
5,600.0	7.95	246.64	5,577.6	-131.7	-304.8	-54.8	0.00	0.00	0.00
5,700.0	7.95	246.64	5,676.6	-137.1	-317.5	-57.1	0.00	0.00	0.00
5,800.0	7.95	246.64	5,775.7	-142.6	-330.2	-59.4	0.00	0.00	0.00
5,900.0	7.95	246.64	5,874.7	-148.1	-342.9	-61.7	0.00	0.00	0.00
6,000.0	7.95	246.64	5,973.7	-153.6	-355.6	-64.0	0.00	0.00	0.00
6,100.0	7.95	246.64	6,072.8	-159.1	-368.3	-66.3	0.00	0.00	0.00
6,200.0	7.95	246.64	6,171.8	-164.6	-381.0	-68.5	0.00	0.00	0.00
6,300.0	7.95	246.64	6,270.9	-170.0	-393.7	-70.8	0.00	0.00	0.00
6,400.0	7.95	246.64	6,369.9	-175.5	-406.4	-73.1	0.00	0.00	0.00
6,500.0	7.95	246.64	6,468.9	-181.0	-419.1	-75.4	0.00	0.00	0.00
6,600.0	7.95	246.64	6,568.0	-186.5	-431.8	-77.7	0.00	0.00	0.00
6,700.0	7.95	246.64	6,667.0	-192.0	-444.4	-80.0	0.00	0.00	0.00
6,800.0	7.95	246.64	6,766.0	-197.4	-457.1	-82.2	0.00	0.00	0.00
6,900.0	7.95	246.64	6,865.1	-202.9	-469.8	-84.5	0.00	0.00	0.00
7,000.0	7.95	246.64	6,964.1	-208.4	-482.5	-86.8	0.00	0.00	0.00
7,100.0	7.95	246.64	7,063.2	-213.9	-495.2	-89.1	0.00	0.00	0.00
7,200.0	7.95	246.64	7,162.2	-219.4	-507.9	-91.4	0.00	0.00	0.00
7,300.0	7.95	246.64	7,261.2	-224.9	-520.6	-93.7	0.00	0.00	0.00
7,400.0	7.95	246.64	7,360.3	-230.3	-533.3	-95.9	0.00	0.00	0.00
7,500.0	7.95	246.64	7,459.3	-235.8	-546.0	-98.2	0.00	0.00	0.00
7,600.0	7.95	246.64	7,558.4	-241.3	-558.7	-100.5	0.00	0.00	0.00
7,700.0	7.95	246.64	7,657.4	-246.8	-571.4	-102.8	0.00	0.00	0.00
7,800.0	7.95	246.64	7,756.4	-252.3	-584.1	-105.1	0.00	0.00	0.00
7,900.0	7.95	246.64	7,855.5	-257.8	-596.8	-107.4	0.00	0.00	0.00
8,000.0	7.95	246.64	7,954.5	-263.2	-609.5	-109.7	0.00	0.00	0.00
8,100.0	7.95	246.64	8,053.6	-268.7	-622.1	-111.9	0.00	0.00	0.00
8,200.0	7.95	246.64	8,152.6	-274.2	-634.8	-114.2	0.00	0.00	0.00
8,300.0	7.95	246.64	8,251.6	-279.7	-647.5	-116.5	0.00	0.00	0.00
8,400.0	7.95	246.64	8,350.7	-285.2	-660.2	-118.8	0.00	0.00	0.00
8,500.0	7.95	246.64	8,449.7	-290.6	-672.9	-121.1	0.00	0.00	0.00
8,600.0	7.95	246.64	8,548.8	-296.1	-685.6	-123.4	0.00	0.00	0.00
8,700.0	7.95	246.64	8,647.8	-301.6	-698.3	-125.6	0.00	0.00	0.00
8,800.0	7.95	246.64	8,746.8	-307.1	-711.0	-127.9	0.00	0.00	0.00
8,900.0	7.95	246.64	8,845.9	-312.6	-723.7	-130.2	0.00	0.00	0.00
9,000.0	7.95	246.64	8,944.9	-318.1	-736.4	-132.5	0.00	0.00	0.00
9,100.0	7.95	246.64	9,044.0	-323.5	-749.1	-134.8	0.00	0.00	0.00
9,200.0	7.95	246.64	9,143.0	-329.0	-761.8	-137.1	0.00	0.00	0.00
9,300.0	7.95	246.64	9,242.0	-334.5	-774.5	-139.3	0.00	0.00	0.00
9,400.0	7.95	246.64	9,341.1	-340.0	-787.1	-141.6	0.00	0.00	0.00
9,500.0	7.95	246.64	9,440.1	-345.5	-799.8	-143.9	0.00	0.00	0.00
9,600.0	7.95	246.64	9,539.2	-350.9	-812.5	-146.2	0.00	0.00	0.00
9,700.0	7.95	246.64	9,638.2	-356.4	-825.2	-148.5	0.00	0.00	0.00
9,800.0	7.95	246.64	9,737.2	-361.9	-837.9	-150.8	0.00	0.00	0.00
9,900.0	7.95	246.64	9,836.3	-367.4	-850.6	-153.0	0.00	0.00	0.00
10,000.0	7.95	246.64	9,935.3	-372.9	-863.3	-155.3	0.00	0.00	0.00
10,100.0	7.95	246.64	10,034.4	-378.4	-876.0	-157.6	0.00	0.00	0.00
10,200.0	7.95	246.64	10,133.4	-383.8	-888.7	-159.9	0.00	0.00	0.00
10,300.0	7.95	246.64	10,232.4	-389.3	-901.4	-162.2	0.00	0.00	0.00
10,400.0	7.95	246.64	10,331.5	-394.8	-914.1	-164.5	0.00	0.00	0.00
10,500.0	7.95	246.64	10,430.5	-400.3	-926.8	-166.7	0.00	0.00	0.00
10,600.0	7.95	246.64	10,529.6	-405.8	-939.5	-169.0	0.00	0.00	0.00



Planning Report

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:	Hearthrob 17 state	North Reference:	Grid
Well:	#705H	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	7.95	246.64	10,628.6	-411.3	-952.1	-171.3	0.00	0.00	0.00
10,800.0	7.95	246.64	10,727.6	-416.7	-964.8	-173.6	0.00	0.00	0.00
10,900.0	7.95	246.64	10,826.7	-422.2	-977.5	-175.9	0.00	0.00	0.00
11,000.0	7.95	246.64	10,925.7	-427.7	-990.2	-178.2	0.00	0.00	0.00
11,100.0	7.95	246.64	11,024.8	-433.2	-1,002.9	-180.4	0.00	0.00	0.00
11,200.0	7.95	246.64	11,123.8	-438.7	-1,015.6	-182.7	0.00	0.00	0.00
11,300.0	7.95	246.64	11,222.8	-444.1	-1,028.3	-185.0	0.00	0.00	0.00
11,400.0	7.95	246.64	11,321.9	-449.6	-1,041.0	-187.3	0.00	0.00	0.00
11,500.0	7.95	246.64	11,420.9	-455.1	-1,053.7	-189.6	0.00	0.00	0.00
11,600.0	7.95	246.64	11,520.0	-460.6	-1,066.4	-191.9	0.00	0.00	0.00
11,700.0	7.95	246.64	11,619.0	-466.1	-1,079.1	-194.1	0.00	0.00	0.00
11,736.8	7.95	246.64	11,655.4	-468.1	-1,083.7	-195.0	0.00	0.00	0.00
11,800.0	6.68	246.64	11,718.1	-471.3	-1,091.1	-196.3	2.00	-2.00	0.00
11,900.0	4.68	246.64	11,817.6	-475.2	-1,100.2	-197.9	2.00	-2.00	0.00
12,000.0	2.68	246.64	11,917.4	-477.8	-1,106.1	-199.0	2.00	-2.00	0.00
12,100.0	0.68	246.64	12,017.4	-478.9	-1,108.8	-199.5	2.00	-2.00	0.00
12,134.1	0.00	0.01	12,051.5	-479.0	-1,109.0	-199.5	2.00	-2.00	0.00
KOP(HT 17 St #705H)									
12,150.0	1.90	359.58	12,067.4	-478.7	-1,109.0	-199.3	12.00	12.00	0.00
12,175.0	4.90	359.58	12,092.3	-477.3	-1,109.0	-197.8	12.00	12.00	0.00
12,200.0	7.90	359.58	12,117.2	-474.5	-1,109.0	-195.1	12.00	12.00	0.00
12,225.0	10.90	359.58	12,141.8	-470.4	-1,109.1	-191.1	12.00	12.00	0.00
12,250.0	13.90	359.58	12,166.2	-465.0	-1,109.1	-185.9	12.00	12.00	0.00
12,275.0	16.90	359.58	12,190.3	-458.4	-1,109.2	-179.5	12.00	12.00	0.00
12,300.0	19.90	359.58	12,214.0	-450.5	-1,109.2	-171.8	12.00	12.00	0.00
12,325.0	22.90	359.58	12,237.3	-441.4	-1,109.3	-162.9	12.00	12.00	0.00
12,350.0	25.90	359.58	12,260.1	-431.0	-1,109.4	-152.9	12.00	12.00	0.00
12,375.0	28.90	359.58	12,282.3	-419.5	-1,109.4	-141.7	12.00	12.00	0.00
12,400.0	31.90	359.58	12,303.8	-406.9	-1,109.5	-129.4	12.00	12.00	0.00
12,425.0	34.90	359.58	12,324.7	-393.1	-1,109.6	-116.0	12.00	12.00	0.00
12,450.0	37.90	359.58	12,344.8	-378.3	-1,109.7	-101.6	12.00	12.00	0.00
12,475.0	40.90	359.58	12,364.1	-362.4	-1,109.9	-86.1	12.00	12.00	0.00
12,500.0	43.90	359.58	12,382.6	-345.6	-1,110.0	-69.7	12.00	12.00	0.00
12,525.0	46.90	359.58	12,400.1	-327.8	-1,110.1	-52.4	12.00	12.00	0.00
12,534.8	48.08	359.58	12,406.8	-320.5	-1,110.2	-45.4	12.00	12.00	0.00
FTP(HT 17 St #705H)									
12,550.0	49.90	359.58	12,416.7	-309.1	-1,110.3	-34.2	12.00	12.00	0.00
12,575.0	52.90	359.58	12,432.3	-289.5	-1,110.4	-15.2	12.00	12.00	0.00
12,600.0	55.90	359.58	12,446.9	-269.2	-1,110.6	4.5	12.00	12.00	0.00
12,625.0	58.90	359.58	12,460.4	-248.1	-1,110.7	25.0	12.00	12.00	0.00
12,650.0	61.90	359.58	12,472.7	-226.4	-1,110.9	46.2	12.00	12.00	0.00
12,675.0	64.90	359.58	12,483.9	-204.1	-1,111.0	67.9	12.00	12.00	0.00
12,700.0	67.90	359.58	12,493.9	-181.1	-1,111.2	90.2	12.00	12.00	0.00
12,725.0	70.90	359.58	12,502.7	-157.8	-1,111.4	112.9	12.00	12.00	0.00
12,750.0	73.90	359.58	12,510.2	-133.9	-1,111.6	136.1	12.00	12.00	0.00
12,775.0	76.90	359.58	12,516.5	-109.7	-1,111.7	159.7	12.00	12.00	0.00
12,800.0	79.90	359.58	12,521.6	-85.2	-1,111.9	183.5	12.00	12.00	0.00
12,825.0	82.90	359.58	12,525.3	-60.5	-1,112.1	207.5	12.00	12.00	0.00
12,850.0	85.90	359.58	12,527.7	-35.7	-1,112.3	231.7	12.00	12.00	0.00
12,875.0	88.90	359.58	12,528.9	-10.7	-1,112.5	256.0	12.00	12.00	0.00
12,884.1	90.00	359.58	12,529.0	-1.6	-1,112.5	264.9	12.00	12.00	0.00
12,900.0	90.00	359.58	12,529.0	14.3	-1,112.7	280.3	0.00	0.00	0.00
13,000.0	90.00	359.58	12,529.0	114.3	-1,113.4	377.6	0.00	0.00	0.00
13,100.0	90.00	359.58	12,529.0	214.3	-1,114.1	474.8	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Hearthrob 17 state
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25 @ 3593.0usft
 MD Reference: KB = 25 @ 3593.0usft
 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	359.58	12,529.0	314.3	-1,114.9	572.1	0.00	0.00	0.00
13,300.0	90.00	359.58	12,529.0	414.3	-1,115.6	669.4	0.00	0.00	0.00
13,400.0	90.00	359.58	12,529.0	514.3	-1,116.4	766.6	0.00	0.00	0.00
13,500.0	90.00	359.58	12,529.0	614.3	-1,117.1	863.9	0.00	0.00	0.00
13,600.0	90.00	359.58	12,529.0	714.3	-1,117.8	961.2	0.00	0.00	0.00
13,700.0	90.00	359.58	12,529.0	814.3	-1,118.6	1,058.4	0.00	0.00	0.00
13,800.0	90.00	359.58	12,529.0	914.3	-1,119.3	1,155.7	0.00	0.00	0.00
13,900.0	90.00	359.58	12,529.0	1,014.3	-1,120.1	1,253.0	0.00	0.00	0.00
14,000.0	90.00	359.58	12,529.0	1,114.3	-1,120.8	1,350.2	0.00	0.00	0.00
14,100.0	90.00	359.58	12,529.0	1,214.3	-1,121.5	1,447.5	0.00	0.00	0.00
14,200.0	90.00	359.58	12,529.0	1,314.3	-1,122.3	1,544.8	0.00	0.00	0.00
14,300.0	90.00	359.58	12,529.0	1,414.3	-1,123.0	1,642.0	0.00	0.00	0.00
14,400.0	90.00	359.58	12,529.0	1,514.3	-1,123.8	1,739.3	0.00	0.00	0.00
14,500.0	90.00	359.58	12,529.0	1,614.3	-1,124.5	1,836.6	0.00	0.00	0.00
14,600.0	90.00	359.58	12,529.0	1,714.3	-1,125.2	1,933.8	0.00	0.00	0.00
14,700.0	90.00	359.58	12,529.0	1,814.3	-1,126.0	2,031.1	0.00	0.00	0.00
14,800.0	90.00	359.58	12,529.0	1,914.3	-1,126.7	2,128.4	0.00	0.00	0.00
14,900.0	90.00	359.58	12,529.0	2,014.3	-1,127.5	2,225.6	0.00	0.00	0.00
15,000.0	90.00	359.58	12,529.0	2,114.3	-1,128.2	2,322.9	0.00	0.00	0.00
15,100.0	90.00	359.58	12,529.0	2,214.3	-1,129.0	2,420.2	0.00	0.00	0.00
15,200.0	90.00	359.58	12,529.0	2,314.3	-1,129.7	2,517.4	0.00	0.00	0.00
15,300.0	90.00	359.58	12,529.0	2,414.2	-1,130.4	2,614.7	0.00	0.00	0.00
15,400.0	90.00	359.58	12,529.0	2,514.2	-1,131.2	2,712.0	0.00	0.00	0.00
15,500.0	90.00	359.58	12,529.0	2,614.2	-1,131.9	2,809.2	0.00	0.00	0.00
15,600.0	90.00	359.58	12,529.0	2,714.2	-1,132.7	2,906.5	0.00	0.00	0.00
15,700.0	90.00	359.58	12,529.0	2,814.2	-1,133.4	3,003.8	0.00	0.00	0.00
15,800.0	90.00	359.58	12,529.0	2,914.2	-1,134.1	3,101.0	0.00	0.00	0.00
15,900.0	90.00	359.58	12,529.0	3,014.2	-1,134.9	3,198.3	0.00	0.00	0.00
16,000.0	90.00	359.58	12,529.0	3,114.2	-1,135.6	3,295.6	0.00	0.00	0.00
16,100.0	90.00	359.58	12,529.0	3,214.2	-1,136.4	3,392.8	0.00	0.00	0.00
16,200.0	90.00	359.58	12,529.0	3,314.2	-1,137.1	3,490.1	0.00	0.00	0.00
16,300.0	90.00	359.58	12,529.0	3,414.2	-1,137.8	3,587.3	0.00	0.00	0.00
16,400.0	90.00	359.58	12,529.0	3,514.2	-1,138.6	3,684.6	0.00	0.00	0.00
16,500.0	90.00	359.58	12,529.0	3,614.2	-1,139.3	3,781.9	0.00	0.00	0.00
16,600.0	90.00	359.58	12,529.0	3,714.2	-1,140.1	3,879.1	0.00	0.00	0.00
16,700.0	90.00	359.58	12,529.0	3,814.2	-1,140.8	3,976.4	0.00	0.00	0.00
16,800.0	90.00	359.58	12,529.0	3,914.2	-1,141.5	4,073.7	0.00	0.00	0.00
16,900.0	90.00	359.58	12,529.0	4,014.2	-1,142.3	4,170.9	0.00	0.00	0.00
17,000.0	90.00	359.58	12,529.0	4,114.2	-1,143.0	4,268.2	0.00	0.00	0.00
17,100.0	90.00	359.58	12,529.0	4,214.2	-1,143.8	4,365.5	0.00	0.00	0.00
17,200.0	90.00	359.58	12,529.0	4,314.2	-1,144.5	4,462.7	0.00	0.00	0.00
17,300.0	90.00	359.58	12,529.0	4,414.2	-1,145.2	4,560.0	0.00	0.00	0.00
17,400.0	90.00	359.58	12,529.0	4,514.2	-1,146.0	4,657.3	0.00	0.00	0.00
17,500.0	90.00	359.58	12,529.0	4,614.2	-1,146.7	4,754.5	0.00	0.00	0.00
17,536.8	90.00	359.58	12,529.0	4,651.0	-1,147.0	4,790.3	0.00	0.00	0.00

PBHL(HT 17 St #705H)



Planning Report

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:	Hearthrob 17 state	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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									
KOP(HT 17 St #705H)	0.00	0.01	12,051.5	-479.0	-1,109.0	441,120.00	770,153.00	32° 12' 37.984 N	103° 35' 36.613 W
- plan hits target center									
- Point									
PBHL(HT 17 St #705H)	0.00	0.01	12,529.0	4,651.0	-1,147.0	446,250.00	770,115.00	32° 13' 28.749 N	103° 35' 36.644 W
- plan hits target center									
- Point									
FTP(HT 17 St #705H)	0.00	0.01	12,529.0	-429.0	-1,109.0	441,170.00	770,153.00	32° 12' 38.478 N	103° 35' 36.609 W
- plan misses target center by 163.4usft at 12534.8usft MD (12406.8 TVD, -320.5 N, -1110.2 E)									
- Point									