

30-025-45141



Lea County, NM (NAD 83 NME)

Hearthrob 17 state #706H

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

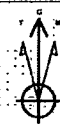
WELL DETAILS: #706H

KB = 25 @ 3594.0usft
Northing 441595.00 Easting 771295.00 Latitude 32° 12' 42.648 N Longitude 103° 35' 23.283 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	3212.7	4.25	223.83	3212.5	-5.7	-5.5	2.00	223.83	-5.1	
4	11878.1	4.25	223.83	11854.0	-469.3	-450.5	0.00	0.00	-419.1	
5	12090.8	0.00	0.00	12065.5	-475.0	-456.0	2.00	180.00	-424.2	KOP(HT 17 St #706H)
6	12840.8	90.00	359.58	12544.0	2.4	-459.5	12.00	359.58	50.9	
7	17492.4	90.00	359.58	12544.0	4854.0	-494.0	0.00	0.00	4680.1	PBHL(HT 17 St #706H)

To convert a Magnetic Direction to a Grid Direction, Add 5.44°
To convert a Magnetic Direction to a True Direction, Add 8.83° East
To convert a True Direction to a Grid Direction, Subtract 0.40°



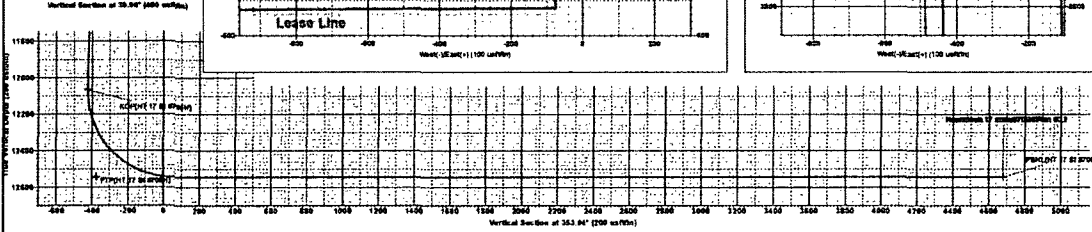
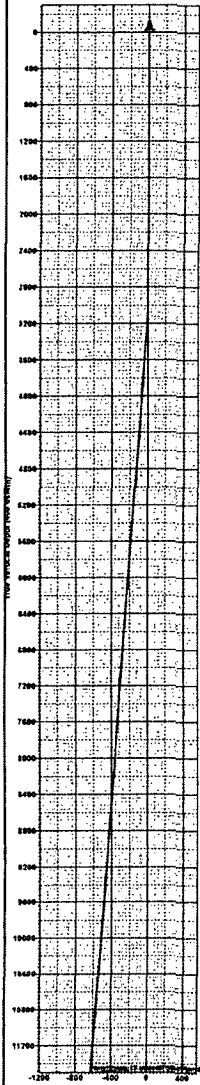
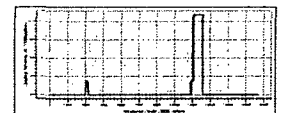
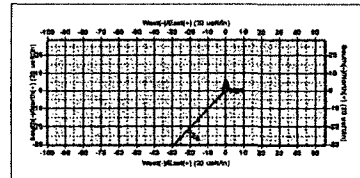
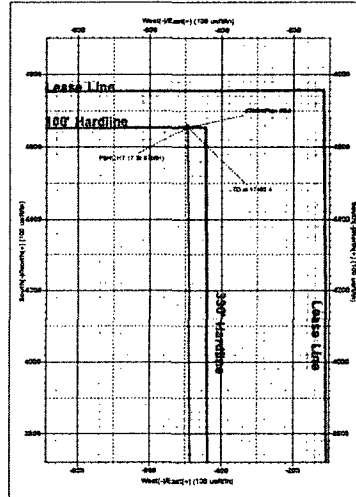
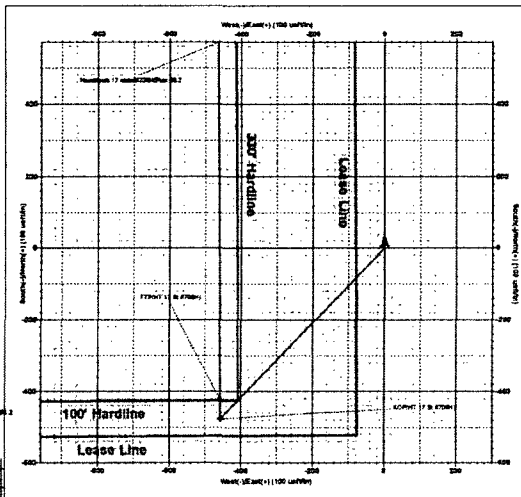
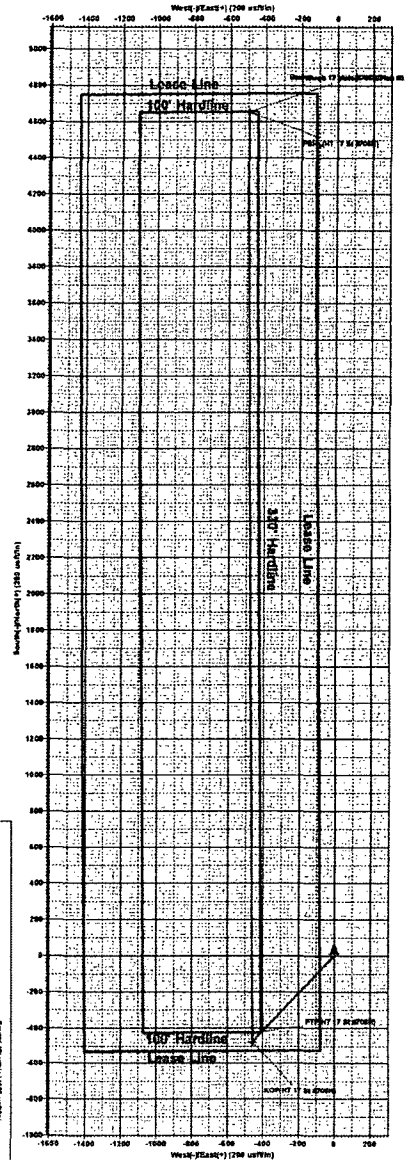
Azimuths to Grid North
True North: -4.40°
Magnetic North: 8.44°
Magnetic Field
Strength: 47808.2 emT
Dip Angle: 80.03°
Date: 8/23/2018
Model: IGRF2015

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 #706H)	12065.5	-475.0	-456.0	441124.00	770838.00
PYPT(HT 17 St #706H)	12544.0	-475.0	-456.0	441174.00	770839.00
PBHL(HT 17 St #706H)	12544.0	4854.0	-464.0	446155.00	770801.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#706H

OH

Plan: Plan #0.2

Standard Planning Report

25 September, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #706H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3594.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3594.0usft
Site:	Hearthrob 17 state	North Reference:	Grid
Well:	#706H	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	#706H					
Well Position	+N/-S	-287.0 usft	Northing:	441,599.00 usft	Latitude:	32° 12' 42.645 N
	+E/-W	3,597.0 usft	Easting:	771,295.00 usft	Longitude:	103° 35' 23.283 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,569.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/23/2018	6.83	60.03	47,806.24333124

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	353.94

Plan Survey Tool Program	Date 9/25/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,492.4 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	
3,212.7	4.25	223.83	3,212.5	-5.7	-5.5	2.00	2.00	0.00	223.83	
11,878.1	4.25	223.83	11,854.0	-469.3	-450.5	0.00	0.00	0.00	0.00	
12,090.8	0.00	0.01	12,066.5	-475.0	-456.0	2.00	-2.00	0.00	180.00	KOP(HT 17 St #706H
12,840.8	90.00	359.58	12,544.0	2.4	-459.5	12.00	12.00	-0.06	359.58	
17,492.4	90.00	359.58	12,544.0	4,654.0	-494.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #706H



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #706H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25 @ 3594.0usft
MD Reference: KB = 25 @ 3594.0usft
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	223.83	3,100.0	-1.3	-1.2	-1.1	2.00	2.00	0.00
3,200.0	4.00	223.83	3,199.8	-5.0	-4.8	-4.5	2.00	2.00	0.00
3,212.7	4.25	223.83	3,212.5	-5.7	-5.5	-5.1	2.00	2.00	0.00
3,300.0	4.25	223.83	3,299.6	-10.4	-9.9	-9.3	0.00	0.00	0.00
3,400.0	4.25	223.83	3,399.3	-15.7	-15.1	-14.0	0.00	0.00	0.00
3,500.0	4.25	223.83	3,499.0	-21.1	-20.2	-18.8	0.00	0.00	0.00
3,600.0	4.25	223.83	3,598.7	-26.4	-25.4	-23.6	0.00	0.00	0.00
3,700.0	4.25	223.83	3,698.5	-31.8	-30.5	-28.4	0.00	0.00	0.00
3,800.0	4.25	223.83	3,798.2	-37.1	-35.6	-33.1	0.00	0.00	0.00
3,900.0	4.25	223.83	3,897.9	-42.5	-40.8	-37.9	0.00	0.00	0.00
4,000.0	4.25	223.83	3,997.6	-47.8	-45.9	-42.7	0.00	0.00	0.00
4,100.0	4.25	223.83	4,097.4	-53.2	-51.0	-47.5	0.00	0.00	0.00
4,200.0	4.25	223.83	4,197.1	-58.5	-56.2	-52.3	0.00	0.00	0.00
4,300.0	4.25	223.83	4,296.8	-63.9	-61.3	-57.0	0.00	0.00	0.00
4,400.0	4.25	223.83	4,396.5	-69.2	-66.4	-61.8	0.00	0.00	0.00
4,500.0	4.25	223.83	4,496.3	-74.6	-71.6	-66.6	0.00	0.00	0.00
4,600.0	4.25	223.83	4,596.0	-79.9	-76.7	-71.4	0.00	0.00	0.00
4,700.0	4.25	223.83	4,695.7	-85.3	-81.9	-76.2	0.00	0.00	0.00
4,800.0	4.25	223.83	4,795.4	-90.6	-87.0	-80.9	0.00	0.00	0.00
4,900.0	4.25	223.83	4,895.2	-96.0	-92.1	-85.7	0.00	0.00	0.00
5,000.0	4.25	223.83	4,994.9	-101.3	-97.3	-90.5	0.00	0.00	0.00
5,100.0	4.25	223.83	5,094.6	-106.7	-102.4	-95.3	0.00	0.00	0.00
5,200.0	4.25	223.83	5,194.3	-112.0	-107.5	-100.0	0.00	0.00	0.00



Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3594.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3594.0usft
Site:	Hearthrob 17 state	North Reference:	Grid
Well:	#706H	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)
5,300.0	4.25	223.83	5,294.1	-117.4	-112.7	-104.8	0.00	0.00	0.00
5,400.0	4.25	223.83	5,393.8	-122.7	-117.8	-109.6	0.00	0.00	0.00
5,500.0	4.25	223.83	5,493.5	-128.1	-122.9	-114.4	0.00	0.00	0.00
5,600.0	4.25	223.83	5,593.2	-133.4	-128.1	-119.2	0.00	0.00	0.00
5,700.0	4.25	223.83	5,693.0	-138.8	-133.2	-123.9	0.00	0.00	0.00
5,800.0	4.25	223.83	5,792.7	-144.1	-138.4	-128.7	0.00	0.00	0.00
5,900.0	4.25	223.83	5,892.4	-149.5	-143.5	-133.5	0.00	0.00	0.00
6,000.0	4.25	223.83	5,992.1	-154.8	-148.6	-138.3	0.00	0.00	0.00
6,100.0	4.25	223.83	6,091.9	-160.2	-153.8	-143.0	0.00	0.00	0.00
6,200.0	4.25	223.83	6,191.6	-165.5	-158.9	-147.8	0.00	0.00	0.00
6,300.0	4.25	223.83	6,291.3	-170.9	-164.0	-152.6	0.00	0.00	0.00
6,400.0	4.25	223.83	6,391.0	-176.2	-169.2	-157.4	0.00	0.00	0.00
6,500.0	4.25	223.83	6,490.8	-181.6	-174.3	-162.2	0.00	0.00	0.00
6,600.0	4.25	223.83	6,590.5	-186.9	-179.4	-166.9	0.00	0.00	0.00
6,700.0	4.25	223.83	6,690.2	-192.3	-184.6	-171.7	0.00	0.00	0.00
6,800.0	4.25	223.83	6,789.9	-197.6	-189.7	-176.5	0.00	0.00	0.00
6,900.0	4.25	223.83	6,889.6	-203.0	-194.9	-181.3	0.00	0.00	0.00
7,000.0	4.25	223.83	6,989.4	-208.3	-200.0	-186.0	0.00	0.00	0.00
7,100.0	4.25	223.83	7,089.1	-213.7	-205.1	-190.8	0.00	0.00	0.00
7,200.0	4.25	223.83	7,188.8	-219.0	-210.3	-195.6	0.00	0.00	0.00
7,300.0	4.25	223.83	7,288.5	-224.4	-215.4	-200.4	0.00	0.00	0.00
7,400.0	4.25	223.83	7,388.3	-229.7	-220.5	-205.2	0.00	0.00	0.00
7,500.0	4.25	223.83	7,488.0	-235.1	-225.7	-209.9	0.00	0.00	0.00
7,600.0	4.25	223.83	7,587.7	-240.4	-230.8	-214.7	0.00	0.00	0.00
7,700.0	4.25	223.83	7,687.4	-245.8	-235.9	-219.5	0.00	0.00	0.00
7,800.0	4.25	223.83	7,787.2	-251.1	-241.1	-224.3	0.00	0.00	0.00
7,900.0	4.25	223.83	7,886.9	-256.5	-246.2	-229.1	0.00	0.00	0.00
8,000.0	4.25	223.83	7,986.6	-261.8	-251.4	-233.8	0.00	0.00	0.00
8,100.0	4.25	223.83	8,086.3	-267.2	-256.5	-238.6	0.00	0.00	0.00
8,200.0	4.25	223.83	8,186.1	-272.5	-261.6	-243.4	0.00	0.00	0.00
8,300.0	4.25	223.83	8,285.8	-277.9	-266.8	-248.2	0.00	0.00	0.00
8,400.0	4.25	223.83	8,385.5	-283.2	-271.9	-252.9	0.00	0.00	0.00
8,500.0	4.25	223.83	8,485.2	-288.6	-277.0	-257.7	0.00	0.00	0.00
8,600.0	4.25	223.83	8,585.0	-293.9	-282.2	-262.5	0.00	0.00	0.00
8,700.0	4.25	223.83	8,684.7	-299.3	-287.3	-267.3	0.00	0.00	0.00
8,800.0	4.25	223.83	8,784.4	-304.6	-292.4	-272.1	0.00	0.00	0.00
8,900.0	4.25	223.83	8,884.1	-310.0	-297.6	-276.8	0.00	0.00	0.00
9,000.0	4.25	223.83	8,983.9	-315.3	-302.7	-281.6	0.00	0.00	0.00
9,100.0	4.25	223.83	9,083.6	-320.7	-307.8	-286.4	0.00	0.00	0.00
9,200.0	4.25	223.83	9,183.3	-326.0	-313.0	-291.2	0.00	0.00	0.00
9,300.0	4.25	223.83	9,283.0	-331.4	-318.1	-295.9	0.00	0.00	0.00
9,400.0	4.25	223.83	9,382.8	-336.7	-323.3	-300.7	0.00	0.00	0.00
9,500.0	4.25	223.83	9,482.5	-342.1	-328.4	-305.5	0.00	0.00	0.00
9,600.0	4.25	223.83	9,582.2	-347.4	-333.5	-310.3	0.00	0.00	0.00
9,700.0	4.25	223.83	9,681.9	-352.8	-338.7	-315.1	0.00	0.00	0.00
9,800.0	4.25	223.83	9,781.7	-358.1	-343.8	-319.8	0.00	0.00	0.00
9,900.0	4.25	223.83	9,881.4	-363.5	-348.9	-324.6	0.00	0.00	0.00
10,000.0	4.25	223.83	9,981.1	-368.8	-354.1	-329.4	0.00	0.00	0.00
10,100.0	4.25	223.83	10,080.8	-374.2	-359.2	-334.2	0.00	0.00	0.00
10,200.0	4.25	223.83	10,180.6	-379.5	-364.3	-338.9	0.00	0.00	0.00
10,300.0	4.25	223.83	10,280.3	-384.9	-369.5	-343.7	0.00	0.00	0.00
10,400.0	4.25	223.83	10,380.0	-390.2	-374.6	-348.5	0.00	0.00	0.00
10,500.0	4.25	223.83	10,479.7	-395.6	-379.8	-353.3	0.00	0.00	0.00
10,600.0	4.25	223.83	10,579.5	-400.9	-384.9	-358.1	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #706H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3594.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3594.0usft
Site:	Hearthrob 17 state	North Reference:	Grid
Well:	#706H	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	4.25	223.83	10,679.2	-406.3	-390.0	-362.8	0.00	0.00	0.00
10,800.0	4.25	223.83	10,778.9	-411.6	-395.2	-367.6	0.00	0.00	0.00
10,900.0	4.25	223.83	10,878.6	-417.0	-400.3	-372.4	0.00	0.00	0.00
11,000.0	4.25	223.83	10,978.4	-422.3	-405.4	-377.2	0.00	0.00	0.00
11,100.0	4.25	223.83	11,078.1	-427.7	-410.6	-382.0	0.00	0.00	0.00
11,200.0	4.25	223.83	11,177.8	-433.0	-415.7	-386.7	0.00	0.00	0.00
11,300.0	4.25	223.83	11,277.5	-438.4	-420.8	-391.5	0.00	0.00	0.00
11,400.0	4.25	223.83	11,377.3	-443.7	-426.0	-396.3	0.00	0.00	0.00
11,500.0	4.25	223.83	11,477.0	-449.1	-431.1	-401.1	0.00	0.00	0.00
11,600.0	4.25	223.83	11,576.7	-454.4	-436.3	-405.8	0.00	0.00	0.00
11,700.0	4.25	223.83	11,676.4	-459.8	-441.4	-410.6	0.00	0.00	0.00
11,800.0	4.25	223.83	11,776.2	-465.1	-446.5	-415.4	0.00	0.00	0.00
11,878.1	4.25	223.83	11,854.0	-469.3	-450.5	-419.1	0.00	0.00	0.00
11,900.0	3.82	223.83	11,875.9	-470.4	-451.6	-420.1	2.00	-2.00	0.00
12,000.0	1.82	223.83	11,975.8	-474.0	-455.0	-423.3	2.00	-2.00	0.00
12,090.8	0.00	0.01	12,066.5	-475.0	-456.0	-424.2	2.00	-2.00	0.00
KOP(HT 17 St #706H)									
12,100.0	1.11	359.58	12,075.7	-474.9	-456.0	-424.1	12.00	12.00	0.00
12,125.0	4.11	359.58	12,100.7	-473.8	-456.0	-423.0	12.00	12.00	0.00
12,150.0	7.11	359.58	12,125.6	-471.3	-456.0	-420.6	12.00	12.00	0.00
12,175.0	10.11	359.58	12,150.3	-467.6	-456.1	-416.8	12.00	12.00	0.00
12,200.0	13.11	359.58	12,174.8	-462.6	-456.1	-411.8	12.00	12.00	0.00
12,225.0	16.11	359.58	12,199.0	-456.3	-456.1	-405.6	12.00	12.00	0.00
12,250.0	19.11	359.58	12,222.8	-448.7	-456.2	-398.0	12.00	12.00	0.00
12,275.0	22.11	359.58	12,246.2	-439.9	-456.3	-389.3	12.00	12.00	0.00
12,300.0	25.11	359.58	12,269.1	-429.9	-456.3	-379.3	12.00	12.00	0.00
12,325.0	28.11	359.58	12,291.5	-418.7	-456.4	-368.2	12.00	12.00	0.00
12,350.0	31.11	359.58	12,313.2	-406.3	-456.5	-355.9	12.00	12.00	0.00
12,375.0	34.11	359.58	12,334.2	-392.9	-456.6	-342.5	12.00	12.00	0.00
12,400.0	37.11	359.58	12,354.6	-378.3	-456.7	-328.0	12.00	12.00	0.00
12,425.0	40.11	359.58	12,374.1	-362.7	-456.8	-312.5	12.00	12.00	0.00
12,450.0	43.11	359.58	12,392.8	-346.1	-457.0	-295.9	12.00	12.00	0.00
12,475.0	46.11	359.58	12,410.6	-328.6	-457.1	-278.5	12.00	12.00	0.00
12,493.7	48.35	359.58	12,423.3	-314.8	-457.2	-264.8	12.00	12.00	0.00
FTP(HT 17 St #706H)									
12,500.0	49.11	359.58	12,427.4	-310.1	-457.2	-260.1	12.00	12.00	0.00
12,525.0	52.11	359.58	12,443.3	-290.8	-457.4	-240.9	12.00	12.00	0.00
12,550.0	55.11	359.58	12,458.1	-270.7	-457.5	-220.9	12.00	12.00	0.00
12,575.0	58.11	359.58	12,471.9	-249.8	-457.7	-200.1	12.00	12.00	0.00
12,600.0	61.11	359.58	12,484.5	-228.2	-457.8	-178.6	12.00	12.00	0.00
12,625.0	64.11	359.58	12,496.0	-206.0	-458.0	-156.5	12.00	12.00	0.00
12,650.0	67.11	359.58	12,506.4	-183.3	-458.2	-133.9	12.00	12.00	0.00
12,675.0	70.11	359.58	12,515.5	-160.0	-458.3	-110.7	12.00	12.00	0.00
12,700.0	73.11	359.58	12,523.4	-136.3	-458.5	-87.1	12.00	12.00	0.00
12,725.0	76.11	359.58	12,530.0	-112.2	-458.7	-63.1	12.00	12.00	0.00
12,750.0	79.11	359.58	12,535.4	-87.8	-458.9	-38.8	12.00	12.00	0.00
12,775.0	82.11	359.58	12,539.4	-63.1	-459.1	-14.3	12.00	12.00	0.00
12,800.0	85.11	359.58	12,542.2	-38.3	-459.2	10.4	12.00	12.00	0.00
12,825.0	88.11	359.58	12,543.7	-13.3	-459.4	35.3	12.00	12.00	0.00
12,840.8	90.00	359.58	12,544.0	2.4	-459.5	50.9	12.00	12.00	0.00
12,900.0	90.00	359.58	12,544.0	61.7	-460.0	109.9	0.00	0.00	0.00
13,000.0	90.00	359.58	12,544.0	161.7	-460.7	209.4	0.00	0.00	0.00
13,100.0	90.00	359.58	12,544.0	261.7	-461.5	308.9	0.00	0.00	0.00
13,200.0	90.00	359.58	12,544.0	361.7	-462.2	408.5	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: #706H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3594.0usft
 MD Reference: KB = 25 @ 3594.0usft
 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)
13,300.0	90.00	359.58	12,544.0	461.7	-462.9	508.0	0.00	0.00	0.00
13,400.0	90.00	359.58	12,544.0	561.7	-463.7	607.5	0.00	0.00	0.00
13,500.0	90.00	359.58	12,544.0	661.7	-464.4	707.0	0.00	0.00	0.00
13,600.0	90.00	359.58	12,544.0	761.7	-465.2	806.5	0.00	0.00	0.00
13,700.0	90.00	359.58	12,544.0	861.7	-465.9	906.0	0.00	0.00	0.00
13,800.0	90.00	359.58	12,544.0	961.7	-466.6	1,005.6	0.00	0.00	0.00
13,900.0	90.00	359.58	12,544.0	1,061.7	-467.4	1,105.1	0.00	0.00	0.00
14,000.0	90.00	359.58	12,544.0	1,161.7	-468.1	1,204.6	0.00	0.00	0.00
14,100.0	90.00	359.58	12,544.0	1,261.7	-468.9	1,304.1	0.00	0.00	0.00
14,200.0	90.00	359.58	12,544.0	1,361.7	-469.6	1,403.6	0.00	0.00	0.00
14,300.0	90.00	359.58	12,544.0	1,461.7	-470.3	1,503.1	0.00	0.00	0.00
14,400.0	90.00	359.58	12,544.0	1,561.7	-471.1	1,602.7	0.00	0.00	0.00
14,500.0	90.00	359.58	12,544.0	1,661.7	-471.8	1,702.2	0.00	0.00	0.00
14,600.0	90.00	359.58	12,544.0	1,761.6	-472.6	1,801.7	0.00	0.00	0.00
14,700.0	90.00	359.58	12,544.0	1,861.6	-473.3	1,901.2	0.00	0.00	0.00
14,800.0	90.00	359.58	12,544.0	1,961.6	-474.1	2,000.7	0.00	0.00	0.00
14,900.0	90.00	359.58	12,544.0	2,061.6	-474.8	2,100.2	0.00	0.00	0.00
15,000.0	90.00	359.58	12,544.0	2,161.6	-475.5	2,199.8	0.00	0.00	0.00
15,100.0	90.00	359.58	12,544.0	2,261.6	-476.3	2,299.3	0.00	0.00	0.00
15,200.0	90.00	359.58	12,544.0	2,361.6	-477.0	2,398.8	0.00	0.00	0.00
15,300.0	90.00	359.58	12,544.0	2,461.6	-477.8	2,498.3	0.00	0.00	0.00
15,400.0	90.00	359.58	12,544.0	2,561.6	-478.5	2,597.8	0.00	0.00	0.00
15,500.0	90.00	359.58	12,544.0	2,661.6	-479.2	2,697.3	0.00	0.00	0.00
15,600.0	90.00	359.58	12,544.0	2,761.6	-480.0	2,796.9	0.00	0.00	0.00
15,700.0	90.00	359.58	12,544.0	2,861.6	-480.7	2,896.4	0.00	0.00	0.00
15,800.0	90.00	359.58	12,544.0	2,961.6	-481.5	2,995.9	0.00	0.00	0.00
15,900.0	90.00	359.58	12,544.0	3,061.6	-482.2	3,095.4	0.00	0.00	0.00
16,000.0	90.00	359.58	12,544.0	3,161.6	-482.9	3,194.9	0.00	0.00	0.00
16,100.0	90.00	359.58	12,544.0	3,261.6	-483.7	3,294.4	0.00	0.00	0.00
16,200.0	90.00	359.58	12,544.0	3,361.6	-484.4	3,394.0	0.00	0.00	0.00
16,300.0	90.00	359.58	12,544.0	3,461.6	-485.2	3,493.5	0.00	0.00	0.00
16,400.0	90.00	359.58	12,544.0	3,561.6	-485.9	3,593.0	0.00	0.00	0.00
16,500.0	90.00	359.58	12,544.0	3,661.6	-486.6	3,692.5	0.00	0.00	0.00
16,600.0	90.00	359.58	12,544.0	3,761.6	-487.4	3,792.0	0.00	0.00	0.00
16,700.0	90.00	359.58	12,544.0	3,861.6	-488.1	3,891.5	0.00	0.00	0.00
16,800.0	90.00	359.58	12,544.0	3,961.6	-488.9	3,991.1	0.00	0.00	0.00
16,900.0	90.00	359.58	12,544.0	4,061.6	-489.6	4,090.6	0.00	0.00	0.00
17,000.0	90.00	359.58	12,544.0	4,161.6	-490.4	4,190.1	0.00	0.00	0.00
17,100.0	90.00	359.58	12,544.0	4,261.6	-491.1	4,289.6	0.00	0.00	0.00
17,200.0	90.00	359.58	12,544.0	4,361.6	-491.8	4,389.1	0.00	0.00	0.00
17,300.0	90.00	359.58	12,544.0	4,461.6	-492.6	4,488.6	0.00	0.00	0.00
17,400.0	90.00	359.58	12,544.0	4,561.6	-493.3	4,588.2	0.00	0.00	0.00
17,492.4	90.00	359.58	12,544.0	4,654.0	-494.0	4,680.1	0.00	0.00	0.00

PBHL(HT 17 St #706H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #706H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3594.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3594.0usft
Site:	Hearthrob 17 state	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP(HT 17 St #706H)	0.00	0.01	12,066.5	-475.0	-456.0	441,124.00	770,839.00	32° 12' 37.976 N	103° 35' 28.629 W
- plan hits target center									
- Point									
FTP(HT 17 St #706H)	0.00	0.01	12,544.0	-425.0	-456.0	441,174.00	770,839.00	32° 12' 38.471 N	103° 35' 28.624 W
- plan misses target center by 163.4usft at 12493.7usft MD (12423.3 TVD, -314.8 N, -457.2 E)									
- Point									
PBHL(HT 17 St #706H)	0.00	0.01	12,544.0	4,654.0	-494.0	446,253.00	770,801.00	32° 13' 28.732 N	103° 35' 28.659 W
- plan hits target center									
- Point									