

30-025-45142



Lea County, NM (NAD 83 NME)

Heartthrob 17 state #707H

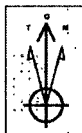
Plan #0.2

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: #707H

KB = 25 @ 3594.0usft 3599.0
Northing 441601.00 Easting 771715.00 Latitude 32° 12' 42.636 N Longitude 103° 35' 18.394 W



Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.43°
Magnetic Field
Strength: 47806.4usT
Dip Angle: 60.03°
Date: 02/23/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.44°
To convert a Magnetic Direction to a True Direction, Add 6.53° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

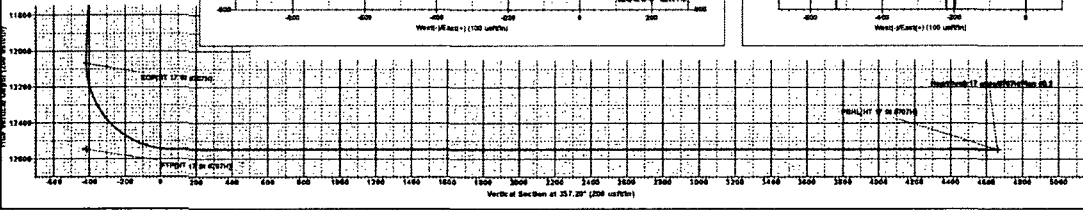
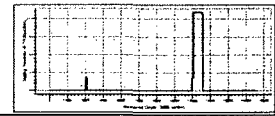
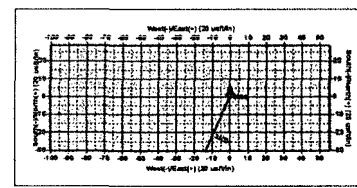
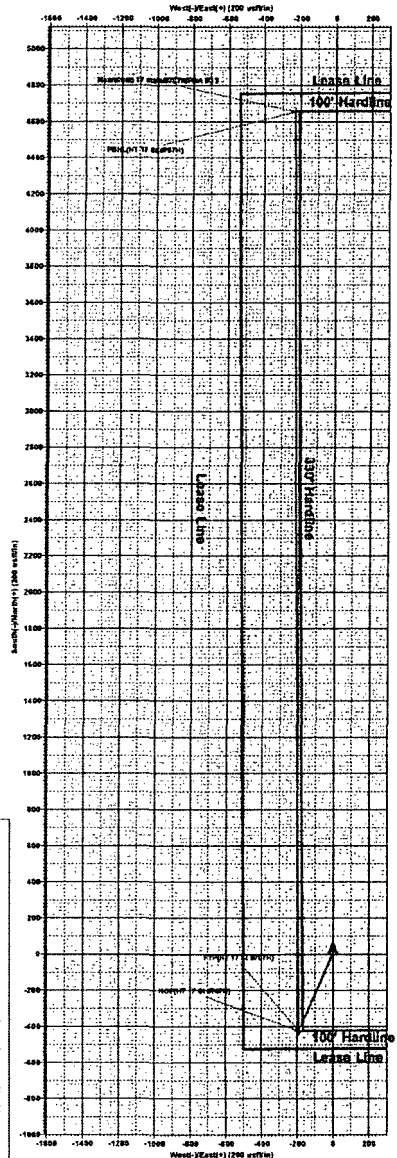
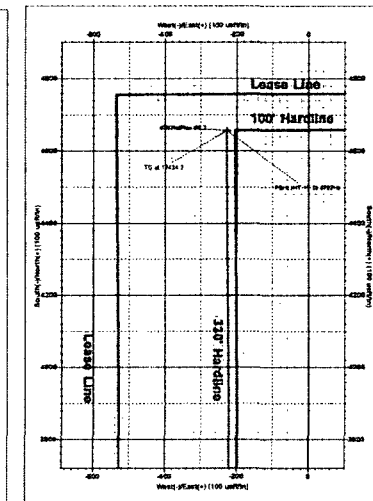
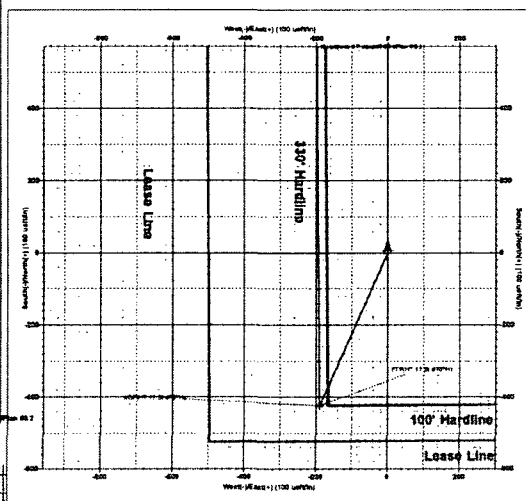
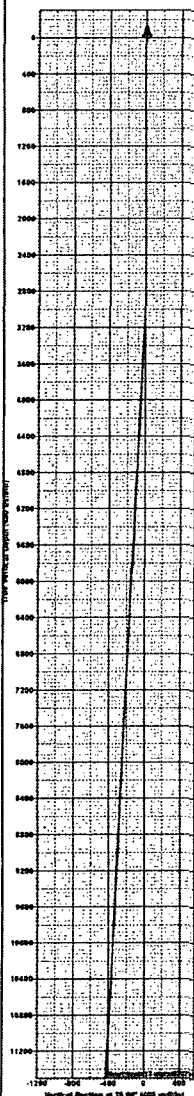
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3149.1	2.98	204.14	3149.0	-3.5	-1.6	2.00	204.14	-3.5	
4	11932.4	2.98	204.14	11920.5	-420.5	-188.4	0.00	0.00	-410.7	
5	12081.5	0.00	0.00	12089.5	-424.0	-190.0	2.00	180.00	-414.2	KOP(HT 17 St #707H)
6	12831.5	90.00	359.57	12547.0	53.4	-193.6	12.00	359.57	62.9	
7	17434.2	90.00	359.57	12547.0	4656.0	-228.0	0.00	0.00	4661.6	PBHL(HT 17 St #707H)

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 #707H)	12089.5	-424.0	-190.0	441177.00	771625.00
FTPH(HT 17 St #707H)	12847.0	-424.0	-190.0	441177.00	771625.00
PBHL(HT 17 St #707H)	12847.0	4656.0	-228.0	448287.00	771487.00





Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
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:	#707H	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	#707H					
Well Position	+N/-S	-285.0 usft	Northing:	441,601.00 usft	Latitude:	32° 12' 42.636 N
	+E/-W	4,017.0 usft	Easting:	771,715.00 usft	Longitude:	103° 35' 18.394 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	47,806.38395681

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	357.20

Plan Survey Tool Program	Date 9/25/2018			
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	17,434.2 Plan #0.2 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
3,149.1	2.98	204.14	3,149.0	-3.5	-1.6	2.00	2.00	0.00	204.14	
11,932.4	2.98	204.14	11,920.5	-420.5	-188.4	0.00	0.00	0.00	0.00	
12,081.5	0.00	0.01	12,069.5	-424.0	-190.0	2.00	-2.00	0.00	180.00	KOP(HT 17 St #707H)
12,831.5	90.00	359.57	12,547.0	53.4	-193.6	12.00	12.00	-0.06	359.57	
17,434.2	90.00	359.57	12,547.0	4,656.0	-228.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #707H)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Hearthrob 17 state
 Well: #707H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #707H
 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	204.14	3,100.0	-1.6	-0.7	-1.6	2.00	2.00	0.00
3,149.1	2.98	204.14	3,149.0	-3.5	-1.6	-3.5	2.00	2.00	0.00
3,200.0	2.98	204.14	3,199.9	-6.0	-2.7	-5.8	0.00	0.00	0.00
3,300.0	2.98	204.14	3,299.7	-10.7	-4.8	-10.5	0.00	0.00	0.00
3,400.0	2.98	204.14	3,399.6	-15.4	-6.9	-15.1	0.00	0.00	0.00
3,500.0	2.98	204.14	3,499.5	-20.2	-9.1	-19.7	0.00	0.00	0.00
3,600.0	2.98	204.14	3,599.3	-24.9	-11.2	-24.4	0.00	0.00	0.00
3,700.0	2.98	204.14	3,699.2	-29.7	-13.3	-29.0	0.00	0.00	0.00
3,800.0	2.98	204.14	3,799.1	-34.4	-15.4	-33.6	0.00	0.00	0.00
3,900.0	2.98	204.14	3,898.9	-39.2	-17.6	-38.3	0.00	0.00	0.00
4,000.0	2.98	204.14	3,998.8	-43.9	-19.7	-42.9	0.00	0.00	0.00
4,100.0	2.98	204.14	4,098.6	-48.7	-21.8	-47.6	0.00	0.00	0.00
4,200.0	2.98	204.14	4,198.5	-53.4	-23.9	-52.2	0.00	0.00	0.00
4,300.0	2.98	204.14	4,298.4	-58.2	-26.1	-56.8	0.00	0.00	0.00
4,400.0	2.98	204.14	4,398.2	-62.9	-28.2	-61.5	0.00	0.00	0.00
4,500.0	2.98	204.14	4,498.1	-67.7	-30.3	-66.1	0.00	0.00	0.00
4,600.0	2.98	204.14	4,598.0	-72.4	-32.4	-70.7	0.00	0.00	0.00
4,700.0	2.98	204.14	4,697.8	-77.2	-34.6	-75.4	0.00	0.00	0.00
4,800.0	2.98	204.14	4,797.7	-81.9	-36.7	-80.0	0.00	0.00	0.00
4,900.0	2.98	204.14	4,897.6	-86.7	-38.8	-84.6	0.00	0.00	0.00
5,000.0	2.98	204.14	4,997.4	-91.4	-41.0	-89.3	0.00	0.00	0.00
5,100.0	2.98	204.14	5,097.3	-96.1	-43.1	-93.9	0.00	0.00	0.00
5,200.0	2.98	204.14	5,197.2	-100.9	-45.2	-98.6	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:	#707H	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	2.98	204.14	5,297.0	-105.6	-47.3	-103.2	0.00	0.00	0.00
5,400.0	2.98	204.14	5,396.9	-110.4	-49.5	-107.8	0.00	0.00	0.00
5,500.0	2.98	204.14	5,496.8	-115.1	-51.6	-112.5	0.00	0.00	0.00
5,600.0	2.98	204.14	5,596.6	-119.9	-53.7	-117.1	0.00	0.00	0.00
5,700.0	2.98	204.14	5,696.5	-124.6	-55.8	-121.7	0.00	0.00	0.00
5,800.0	2.98	204.14	5,796.3	-129.4	-58.0	-126.4	0.00	0.00	0.00
5,900.0	2.98	204.14	5,896.2	-134.1	-60.1	-131.0	0.00	0.00	0.00
6,000.0	2.98	204.14	5,996.1	-138.9	-62.2	-135.7	0.00	0.00	0.00
6,100.0	2.98	204.14	6,095.9	-143.6	-64.4	-140.3	0.00	0.00	0.00
6,200.0	2.98	204.14	6,195.8	-148.4	-66.5	-144.9	0.00	0.00	0.00
6,300.0	2.98	204.14	6,295.7	-153.1	-68.6	-149.6	0.00	0.00	0.00
6,400.0	2.98	204.14	6,395.5	-157.9	-70.7	-154.2	0.00	0.00	0.00
6,500.0	2.98	204.14	6,495.4	-162.6	-72.9	-158.8	0.00	0.00	0.00
6,600.0	2.98	204.14	6,595.3	-167.3	-75.0	-163.5	0.00	0.00	0.00
6,700.0	2.98	204.14	6,695.1	-172.1	-77.1	-168.1	0.00	0.00	0.00
6,800.0	2.98	204.14	6,795.0	-176.8	-79.2	-172.8	0.00	0.00	0.00
6,900.0	2.98	204.14	6,894.9	-181.6	-81.4	-177.4	0.00	0.00	0.00
7,000.0	2.98	204.14	6,994.7	-186.3	-83.5	-182.0	0.00	0.00	0.00
7,100.0	2.98	204.14	7,094.6	-191.1	-85.6	-186.7	0.00	0.00	0.00
7,200.0	2.98	204.14	7,194.4	-195.8	-87.8	-191.3	0.00	0.00	0.00
7,300.0	2.98	204.14	7,294.3	-200.6	-89.9	-195.9	0.00	0.00	0.00
7,400.0	2.98	204.14	7,394.2	-205.3	-92.0	-200.6	0.00	0.00	0.00
7,500.0	2.98	204.14	7,494.0	-210.1	-94.1	-205.2	0.00	0.00	0.00
7,600.0	2.98	204.14	7,593.9	-214.8	-96.3	-209.8	0.00	0.00	0.00
7,700.0	2.98	204.14	7,693.8	-219.6	-98.4	-214.5	0.00	0.00	0.00
7,800.0	2.98	204.14	7,793.6	-224.3	-100.5	-219.1	0.00	0.00	0.00
7,900.0	2.98	204.14	7,893.5	-229.1	-102.6	-223.8	0.00	0.00	0.00
8,000.0	2.98	204.14	7,993.4	-233.8	-104.8	-228.4	0.00	0.00	0.00
8,100.0	2.98	204.14	8,093.2	-238.5	-106.9	-233.0	0.00	0.00	0.00
8,200.0	2.98	204.14	8,193.1	-243.3	-109.0	-237.7	0.00	0.00	0.00
8,300.0	2.98	204.14	8,293.0	-248.0	-111.1	-242.3	0.00	0.00	0.00
8,400.0	2.98	204.14	8,392.8	-252.8	-113.3	-246.9	0.00	0.00	0.00
8,500.0	2.98	204.14	8,492.7	-257.5	-115.4	-251.6	0.00	0.00	0.00
8,600.0	2.98	204.14	8,592.6	-262.3	-117.5	-256.2	0.00	0.00	0.00
8,700.0	2.98	204.14	8,692.4	-267.0	-119.7	-260.9	0.00	0.00	0.00
8,800.0	2.98	204.14	8,792.3	-271.8	-121.8	-265.5	0.00	0.00	0.00
8,900.0	2.98	204.14	8,892.1	-276.5	-123.9	-270.1	0.00	0.00	0.00
9,000.0	2.98	204.14	8,992.0	-281.3	-126.0	-274.8	0.00	0.00	0.00
9,100.0	2.98	204.14	9,091.9	-286.0	-128.2	-279.4	0.00	0.00	0.00
9,200.0	2.98	204.14	9,191.7	-290.8	-130.3	-284.0	0.00	0.00	0.00
9,300.0	2.98	204.14	9,291.6	-295.5	-132.4	-288.7	0.00	0.00	0.00
9,400.0	2.98	204.14	9,391.5	-300.3	-134.5	-293.3	0.00	0.00	0.00
9,500.0	2.98	204.14	9,491.3	-305.0	-136.7	-297.9	0.00	0.00	0.00
9,600.0	2.98	204.14	9,591.2	-309.7	-138.8	-302.6	0.00	0.00	0.00
9,700.0	2.98	204.14	9,691.1	-314.5	-140.9	-307.2	0.00	0.00	0.00
9,800.0	2.98	204.14	9,790.9	-319.2	-143.1	-311.9	0.00	0.00	0.00
9,900.0	2.98	204.14	9,890.8	-324.0	-145.2	-316.5	0.00	0.00	0.00
10,000.0	2.98	204.14	9,990.7	-328.7	-147.3	-321.1	0.00	0.00	0.00
10,100.0	2.98	204.14	10,090.5	-333.5	-149.4	-325.8	0.00	0.00	0.00
10,200.0	2.98	204.14	10,190.4	-338.2	-151.6	-330.4	0.00	0.00	0.00
10,300.0	2.98	204.14	10,290.3	-343.0	-153.7	-335.0	0.00	0.00	0.00
10,400.0	2.98	204.14	10,390.1	-347.7	-155.8	-339.7	0.00	0.00	0.00
10,500.0	2.98	204.14	10,490.0	-352.5	-157.9	-344.3	0.00	0.00	0.00
10,600.0	2.98	204.14	10,589.8	-357.2	-160.1	-349.0	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: #707H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #707H
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)
10,700.0	2.98	204.14	10,689.7	-362.0	-162.2	-353.6	0.00	0.00	0.00
10,800.0	2.98	204.14	10,789.6	-366.7	-164.3	-358.2	0.00	0.00	0.00
10,900.0	2.98	204.14	10,889.4	-371.5	-166.5	-362.9	0.00	0.00	0.00
11,000.0	2.98	204.14	10,989.3	-376.2	-168.6	-367.5	0.00	0.00	0.00
11,100.0	2.98	204.14	11,089.2	-380.9	-170.7	-372.1	0.00	0.00	0.00
11,200.0	2.98	204.14	11,189.0	-385.7	-172.8	-376.8	0.00	0.00	0.00
11,300.0	2.98	204.14	11,288.9	-390.4	-175.0	-381.4	0.00	0.00	0.00
11,400.0	2.98	204.14	11,388.8	-395.2	-177.1	-386.1	0.00	0.00	0.00
11,500.0	2.98	204.14	11,488.6	-399.9	-179.2	-390.7	0.00	0.00	0.00
11,600.0	2.98	204.14	11,588.5	-404.7	-181.3	-395.3	0.00	0.00	0.00
11,700.0	2.98	204.14	11,688.4	-409.4	-183.5	-400.0	0.00	0.00	0.00
11,800.0	2.98	204.14	11,788.2	-414.2	-185.6	-404.6	0.00	0.00	0.00
11,900.0	2.98	204.14	11,888.1	-418.9	-187.7	-409.2	0.00	0.00	0.00
11,932.4	2.98	204.14	11,920.5	-420.5	-188.4	-410.7	0.00	0.00	0.00
12,000.0	1.63	204.14	11,988.0	-422.9	-189.5	-413.2	2.00	-2.00	0.00
12,081.5	0.00	0.01	12,069.5	-424.0	-190.0	-414.2	2.00	-2.00	0.00
KOP(HT 17 St #707H)									
12,100.0	2.22	359.57	12,088.0	-423.6	-190.0	-413.8	12.00	12.00	0.00
12,125.0	5.22	359.57	12,112.9	-422.0	-190.0	-412.2	12.00	12.00	0.00
12,150.0	8.22	359.57	12,137.7	-419.1	-190.0	-409.3	12.00	12.00	0.00
12,175.0	11.22	359.57	12,162.4	-414.9	-190.1	-405.1	12.00	12.00	0.00
12,200.0	14.22	359.57	12,186.8	-409.4	-190.1	-399.6	12.00	12.00	0.00
12,225.0	17.22	359.57	12,210.8	-402.6	-190.2	-392.8	12.00	12.00	0.00
12,250.0	20.22	359.57	12,234.5	-394.6	-190.2	-384.8	12.00	12.00	0.00
12,275.0	23.22	359.57	12,257.7	-385.3	-190.3	-375.6	12.00	12.00	0.00
12,300.0	26.22	359.57	12,280.4	-374.9	-190.4	-365.1	12.00	12.00	0.00
12,325.0	29.22	359.57	12,302.6	-363.3	-190.5	-353.5	12.00	12.00	0.00
12,350.0	32.22	359.57	12,324.0	-350.5	-190.5	-340.7	12.00	12.00	0.00
12,375.0	35.22	359.57	12,344.8	-336.6	-190.7	-326.9	12.00	12.00	0.00
12,400.0	38.22	359.57	12,364.9	-321.7	-190.8	-312.0	12.00	12.00	0.00
12,425.0	41.22	359.57	12,384.1	-305.7	-190.9	-296.0	12.00	12.00	0.00
12,450.0	44.22	359.57	12,402.5	-288.7	-191.0	-279.1	12.00	12.00	0.00
12,454.1	44.71	359.57	12,405.4	-285.9	-191.0	-276.2	12.00	12.00	0.00
FTP(HT 17 St #707H)									
12,475.0	47.22	359.57	12,419.9	-270.8	-191.1	-261.2	12.00	12.00	0.00
12,500.0	50.22	359.57	12,436.4	-252.1	-191.3	-242.4	12.00	12.00	0.00
12,525.0	53.22	359.57	12,451.9	-232.4	-191.4	-222.8	12.00	12.00	0.00
12,550.0	56.22	359.57	12,466.3	-212.0	-191.6	-202.4	12.00	12.00	0.00
12,575.0	59.22	359.57	12,479.7	-190.9	-191.7	-181.3	12.00	12.00	0.00
12,600.0	62.22	359.57	12,491.9	-169.1	-191.9	-159.5	12.00	12.00	0.00
12,625.0	65.22	359.57	12,503.0	-146.7	-192.1	-137.1	12.00	12.00	0.00
12,650.0	68.22	359.57	12,512.9	-123.7	-192.2	-114.2	12.00	12.00	0.00
12,675.0	71.22	359.57	12,521.5	-100.3	-192.4	-90.7	12.00	12.00	0.00
12,700.0	74.22	359.57	12,529.0	-76.4	-192.6	-66.9	12.00	12.00	0.00
12,725.0	77.22	359.57	12,535.1	-52.2	-192.8	-42.7	12.00	12.00	0.00
12,750.0	80.22	359.57	12,540.0	-27.7	-193.0	-18.2	12.00	12.00	0.00
12,775.0	83.22	359.57	12,543.6	-2.9	-193.1	6.5	12.00	12.00	0.00
12,800.0	86.22	359.57	12,545.9	22.0	-193.3	31.4	12.00	12.00	0.00
12,825.0	89.22	359.57	12,546.9	46.9	-193.5	56.3	12.00	12.00	0.00
12,831.5	90.00	359.57	12,547.0	53.4	-193.6	62.9	12.00	12.00	0.00
12,900.0	90.00	359.57	12,547.0	121.9	-194.1	131.3	0.00	0.00	0.00
13,000.0	90.00	359.57	12,547.0	221.9	-194.8	231.2	0.00	0.00	0.00
13,100.0	90.00	359.57	12,547.0	321.9	-195.6	331.1	0.00	0.00	0.00
13,200.0	90.00	359.57	12,547.0	421.9	-196.3	431.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TYD 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:	#707H	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)
13,300.0	90.00	359.57	12,547.0	521.9	-197.1	530.9	0.00	0.00	0.00
13,400.0	90.00	359.57	12,547.0	621.9	-197.8	630.8	0.00	0.00	0.00
13,500.0	90.00	359.57	12,547.0	721.9	-198.6	730.8	0.00	0.00	0.00
13,600.0	90.00	359.57	12,547.0	821.9	-199.3	830.7	0.00	0.00	0.00
13,700.0	90.00	359.57	12,547.0	921.9	-200.1	930.6	0.00	0.00	0.00
13,800.0	90.00	359.57	12,547.0	1,021.9	-200.8	1,030.5	0.00	0.00	0.00
13,900.0	90.00	359.57	12,547.0	1,121.9	-201.6	1,130.4	0.00	0.00	0.00
14,000.0	90.00	359.57	12,547.0	1,221.9	-202.3	1,230.3	0.00	0.00	0.00
14,100.0	90.00	359.57	12,547.0	1,321.9	-203.1	1,330.2	0.00	0.00	0.00
14,200.0	90.00	359.57	12,547.0	1,421.9	-203.8	1,430.2	0.00	0.00	0.00
14,300.0	90.00	359.57	12,547.0	1,521.9	-204.6	1,530.1	0.00	0.00	0.00
14,400.0	90.00	359.57	12,547.0	1,621.9	-205.3	1,630.0	0.00	0.00	0.00
14,500.0	90.00	359.57	12,547.0	1,721.9	-206.1	1,729.9	0.00	0.00	0.00
14,600.0	90.00	359.57	12,547.0	1,821.9	-206.8	1,829.8	0.00	0.00	0.00
14,700.0	90.00	359.57	12,547.0	1,921.9	-207.5	1,929.7	0.00	0.00	0.00
14,800.0	90.00	359.57	12,547.0	2,021.9	-208.3	2,029.6	0.00	0.00	0.00
14,900.0	90.00	359.57	12,547.0	2,121.9	-209.0	2,129.6	0.00	0.00	0.00
15,000.0	90.00	359.57	12,547.0	2,221.9	-209.8	2,229.5	0.00	0.00	0.00
15,100.0	90.00	359.57	12,547.0	2,321.9	-210.5	2,329.4	0.00	0.00	0.00
15,200.0	90.00	359.57	12,547.0	2,421.9	-211.3	2,429.3	0.00	0.00	0.00
15,300.0	90.00	359.57	12,547.0	2,521.9	-212.0	2,529.2	0.00	0.00	0.00
15,400.0	90.00	359.57	12,547.0	2,621.9	-212.8	2,629.1	0.00	0.00	0.00
15,500.0	90.00	359.57	12,547.0	2,721.9	-213.5	2,729.0	0.00	0.00	0.00
15,600.0	90.00	359.57	12,547.0	2,821.8	-214.3	2,829.0	0.00	0.00	0.00
15,700.0	90.00	359.57	12,547.0	2,921.8	-215.0	2,928.9	0.00	0.00	0.00
15,800.0	90.00	359.57	12,547.0	3,021.8	-215.8	3,028.8	0.00	0.00	0.00
15,900.0	90.00	359.57	12,547.0	3,121.8	-216.5	3,128.7	0.00	0.00	0.00
16,000.0	90.00	359.57	12,547.0	3,221.8	-217.3	3,228.6	0.00	0.00	0.00
16,100.0	90.00	359.57	12,547.0	3,321.8	-218.0	3,328.5	0.00	0.00	0.00
16,200.0	90.00	359.57	12,547.0	3,421.8	-218.8	3,428.4	0.00	0.00	0.00
16,300.0	90.00	359.57	12,547.0	3,521.8	-219.5	3,528.4	0.00	0.00	0.00
16,400.0	90.00	359.57	12,547.0	3,621.8	-220.3	3,628.3	0.00	0.00	0.00
16,500.0	90.00	359.57	12,547.0	3,721.8	-221.0	3,728.2	0.00	0.00	0.00
16,600.0	90.00	359.57	12,547.0	3,821.8	-221.8	3,828.1	0.00	0.00	0.00
16,700.0	90.00	359.57	12,547.0	3,921.8	-222.5	3,928.0	0.00	0.00	0.00
16,800.0	90.00	359.57	12,547.0	4,021.8	-223.3	4,027.9	0.00	0.00	0.00
16,900.0	90.00	359.57	12,547.0	4,121.8	-224.0	4,127.8	0.00	0.00	0.00
17,000.0	90.00	359.57	12,547.0	4,221.8	-224.8	4,227.8	0.00	0.00	0.00
17,100.0	90.00	359.57	12,547.0	4,321.8	-225.5	4,327.7	0.00	0.00	0.00
17,200.0	90.00	359.57	12,547.0	4,421.8	-226.2	4,427.6	0.00	0.00	0.00
17,300.0	90.00	359.57	12,547.0	4,521.8	-227.0	4,527.5	0.00	0.00	0.00
17,400.0	90.00	359.57	12,547.0	4,621.8	-227.7	4,627.4	0.00	0.00	0.00
17,434.2	90.00	359.57	12,547.0	4,656.0	-228.0	4,661.6	0.00	0.00	0.00
PBHL(HT 17 St #707H)									



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
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:	#707H	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 #707H)	0.00	0.01	12,069.5	-424.0	-190.0	441,177.00	771,525.00	32° 12' 38.454 N	103° 35' 20.640 W
- plan hits target center									
- Point									
FTP(HT 17 St #707H)	0.00	0.01	12,547.0	-424.0	-190.0	441,177.00	771,525.00	32° 12' 38.454 N	103° 35' 20.640 W
- plan misses target center by 197.8usft at 12454.1usft MD (12405.4 TVD, -285.9 N, -191.0 E)									
- Point									
PBHL(HT 17 St #707H)	0.00	0.01	12,547.0	4,656.0	-228.0	446,257.00	771,487.00	32° 13' 28.724 N	103° 35' 20.673 W
- plan hits target center									
- Point									