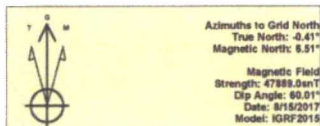




Lea County, NM (NAD 83 NME)

Hearns 34 State Com #504H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 6.91°
To convert a Magnetic Direction to a True Direction, Add 6.93° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

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: #504H

KB = 25' @ 3493.0usft
Northing 425968.00 Easting 780850.00 Latitude 32° 10' 3.348 N Longitude 103° 33' 33.414 W

SECTION DETAILS

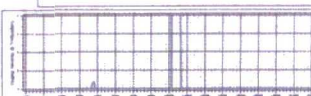
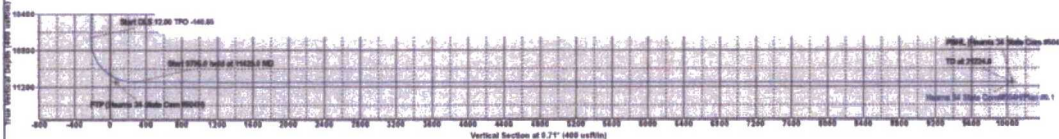
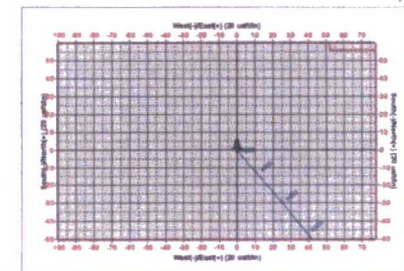
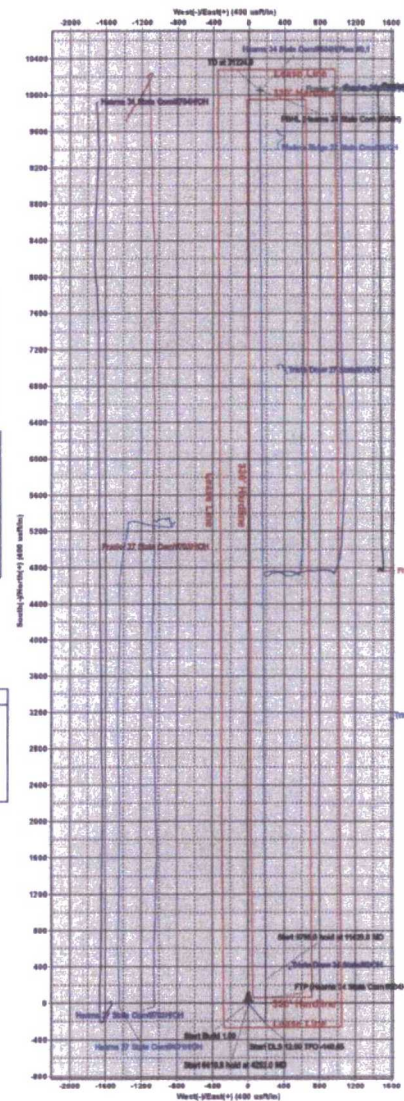
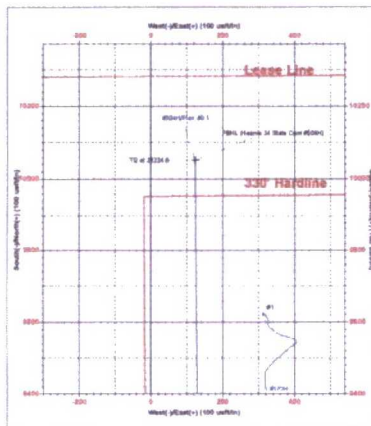
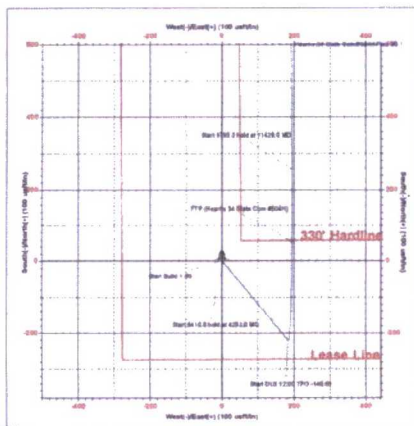
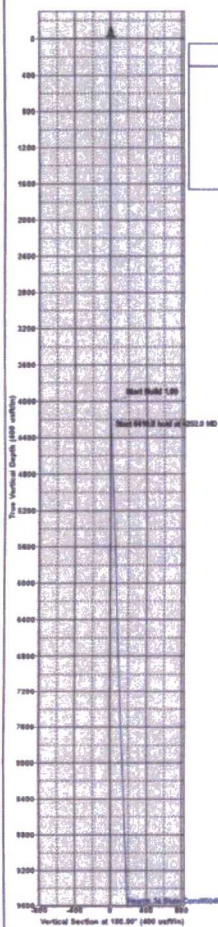
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0
3	4252.0	2.52	140.26	4251.9	-4.3	3.5	1.00	140.26	-4.2
4	10662.8	2.52	140.26	10656.5	-221.0	183.7	0.00	0.00	-218.7
5	11429.0	90.00	359.59	11150.0	256.3	194.1	12.00	-140.65	258.6
6	21224.0	90.00	359.59	11150.0	10051.0	124.0	0.00	0.00	10051.8

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Hearns 34 State Com #504H)	11150.0	96.0	194.0	435624.00	781044.00
PBHL (Hearns 34 State Com #504H)	11150.0	10051.0	124.0	435619.00	780874.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#504H

OH

Plan: Plan #0.1

Standard Planning Report

15 August, 2017



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Com
Well: #504H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25' @ 3493.0usft
MD Reference: KB = 25' @ 3493.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Hearn 34 State Com

Site Position: Northing: 425,568.00 usft Latitude: 32° 10' 3.355 N
From: Map Easting: 780,745.00 usft Longitude: 103° 33' 34.635 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.41°

Well: #504H

Well Position: +N/-S 0.0 usft Northing: 425,568.00 usft Latitude: 32° 10' 3.348 N
+E/-W 105.0 usft Easting: 780,850.00 usft Longitude: 103° 33' 33.414 W
Position Uncertainty: 0.0 usft Wellhead Elevation: Ground Level: 3,468.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/15/2017	6.93	60.01	47,888.97266700

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	0.71

Plan Survey Tool Program Date: 8/15/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,224.0 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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,252.0	2.52	140.26	4,251.9	-4.3	3.5	1.00	1.00	0.00	140.26	
10,662.8	2.52	140.26	10,656.5	-221.0	183.7	0.00	0.00	0.00	0.00	
11,429.0	90.00	359.59	11,150.0	256.3	194.1	12.00	11.42	-18.36	-140.65	
21,224.0	90.00	359.59	11,150.0	10,051.0	124.0	0.00	0.00	0.00	0.00	PBHL (Hearn 34 Sta



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Hearn 34 State Com
 Well: #504H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #504H
 TVD Reference: KB = 25' @ 3493.0usft
 MD Reference: KB = 25' @ 3493.0usft
 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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	1.00	140.26	4,100.0	-0.7	0.6	-0.7	1.00	1.00	0.00
4,200.0	2.00	140.26	4,200.0	-2.7	2.2	-2.7	1.00	1.00	0.00
4,252.0	2.52	140.26	4,251.9	-4.3	3.5	-4.2	1.00	1.00	0.00
4,300.0	2.52	140.26	4,299.9	-5.9	4.9	-5.8	0.00	0.00	0.00
4,400.0	2.52	140.26	4,399.8	-9.3	7.7	-9.2	0.00	0.00	0.00
4,500.0	2.52	140.26	4,499.7	-12.6	10.5	-12.5	0.00	0.00	0.00
4,600.0	2.52	140.26	4,599.6	-16.0	13.3	-15.9	0.00	0.00	0.00
4,700.0	2.52	140.26	4,699.5	-19.4	16.1	-19.2	0.00	0.00	0.00
4,800.0	2.52	140.26	4,799.4	-22.8	18.9	-22.6	0.00	0.00	0.00
4,900.0	2.52	140.26	4,899.3	-26.2	21.8	-25.9	0.00	0.00	0.00
5,000.0	2.52	140.26	4,999.2	-29.6	24.6	-29.2	0.00	0.00	0.00
5,100.0	2.52	140.26	5,099.1	-32.9	27.4	-32.6	0.00	0.00	0.00
5,200.0	2.52	140.26	5,199.0	-36.3	30.2	-35.9	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Hearn 34 State Com
 Well: #504H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well #504H
 KB = 25' @ 3493.0usft
 KB = 25' @ 3493.0usft
 Grid
 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	2.52	140.26	5,298.9	-39.7	33.0	-39.3	0.00	0.00	0.00
5,400.0	2.52	140.26	5,398.8	-43.1	35.8	-42.6	0.00	0.00	0.00
5,500.0	2.52	140.26	5,498.7	-46.5	38.6	-46.0	0.00	0.00	0.00
5,600.0	2.52	140.26	5,598.6	-49.8	41.4	-49.3	0.00	0.00	0.00
5,700.0	2.52	140.26	5,698.5	-53.2	44.2	-52.7	0.00	0.00	0.00
5,800.0	2.52	140.26	5,798.4	-56.6	47.1	-56.0	0.00	0.00	0.00
5,900.0	2.52	140.26	5,898.3	-60.0	49.9	-59.4	0.00	0.00	0.00
6,000.0	2.52	140.26	5,998.2	-63.4	52.7	-62.7	0.00	0.00	0.00
6,100.0	2.52	140.26	6,098.1	-66.7	55.5	-66.1	0.00	0.00	0.00
6,200.0	2.52	140.26	6,198.0	-70.1	58.3	-69.4	0.00	0.00	0.00
6,300.0	2.52	140.26	6,297.9	-73.5	61.1	-72.7	0.00	0.00	0.00
6,400.0	2.52	140.26	6,397.8	-76.9	63.9	-76.1	0.00	0.00	0.00
6,500.0	2.52	140.26	6,497.7	-80.3	66.7	-79.4	0.00	0.00	0.00
6,600.0	2.52	140.26	6,597.6	-83.7	69.5	-82.8	0.00	0.00	0.00
6,700.0	2.52	140.26	6,697.6	-87.0	72.4	-86.1	0.00	0.00	0.00
6,800.0	2.52	140.26	6,797.5	-90.4	75.2	-89.5	0.00	0.00	0.00
6,900.0	2.52	140.26	6,897.4	-93.8	78.0	-92.8	0.00	0.00	0.00
7,000.0	2.52	140.26	6,997.3	-97.2	80.8	-96.2	0.00	0.00	0.00
7,100.0	2.52	140.26	7,097.2	-100.6	83.6	-99.5	0.00	0.00	0.00
7,200.0	2.52	140.26	7,197.1	-103.9	86.4	-102.9	0.00	0.00	0.00
7,300.0	2.52	140.26	7,297.0	-107.3	89.2	-106.2	0.00	0.00	0.00
7,400.0	2.52	140.26	7,396.9	-110.7	92.0	-109.6	0.00	0.00	0.00
7,500.0	2.52	140.26	7,496.8	-114.1	94.8	-112.9	0.00	0.00	0.00
7,600.0	2.52	140.26	7,596.7	-117.5	97.6	-116.3	0.00	0.00	0.00
7,700.0	2.52	140.26	7,696.6	-120.8	100.5	-119.6	0.00	0.00	0.00
7,800.0	2.52	140.26	7,796.5	-124.2	103.3	-122.9	0.00	0.00	0.00
7,900.0	2.52	140.26	7,896.4	-127.6	106.1	-126.3	0.00	0.00	0.00
8,000.0	2.52	140.26	7,996.3	-131.0	108.9	-129.6	0.00	0.00	0.00
8,100.0	2.52	140.26	8,096.2	-134.4	111.7	-133.0	0.00	0.00	0.00
8,200.0	2.52	140.26	8,196.1	-137.8	114.5	-136.3	0.00	0.00	0.00
8,300.0	2.52	140.26	8,296.0	-141.1	117.3	-139.7	0.00	0.00	0.00
8,400.0	2.52	140.26	8,395.9	-144.5	120.1	-143.0	0.00	0.00	0.00
8,500.0	2.52	140.26	8,495.8	-147.9	122.9	-146.4	0.00	0.00	0.00
8,600.0	2.52	140.26	8,595.7	-151.3	125.8	-149.7	0.00	0.00	0.00
8,700.0	2.52	140.26	8,695.6	-154.7	128.6	-153.1	0.00	0.00	0.00
8,800.0	2.52	140.26	8,795.5	-158.0	131.4	-156.4	0.00	0.00	0.00
8,900.0	2.52	140.26	8,895.4	-161.4	134.2	-159.8	0.00	0.00	0.00
9,000.0	2.52	140.26	8,995.3	-164.8	137.0	-163.1	0.00	0.00	0.00
9,100.0	2.52	140.26	9,095.2	-168.2	139.8	-166.4	0.00	0.00	0.00
9,200.0	2.52	140.26	9,195.1	-171.6	142.6	-169.8	0.00	0.00	0.00
9,300.0	2.52	140.26	9,295.0	-174.9	145.4	-173.1	0.00	0.00	0.00
9,400.0	2.52	140.26	9,394.9	-178.3	148.2	-176.5	0.00	0.00	0.00
9,500.0	2.52	140.26	9,494.8	-181.7	151.1	-179.8	0.00	0.00	0.00
9,600.0	2.52	140.26	9,594.7	-185.1	153.9	-183.2	0.00	0.00	0.00
9,700.0	2.52	140.26	9,694.6	-188.5	156.7	-186.5	0.00	0.00	0.00
9,800.0	2.52	140.26	9,794.6	-191.9	159.5	-189.9	0.00	0.00	0.00
9,900.0	2.52	140.26	9,894.5	-195.2	162.3	-193.2	0.00	0.00	0.00
10,000.0	2.52	140.26	9,994.4	-198.6	165.1	-196.6	0.00	0.00	0.00
10,100.0	2.52	140.26	10,094.3	-202.0	167.9	-199.9	0.00	0.00	0.00
10,200.0	2.52	140.26	10,194.2	-205.4	170.7	-203.3	0.00	0.00	0.00
10,300.0	2.52	140.26	10,294.1	-208.8	173.5	-206.6	0.00	0.00	0.00
10,400.0	2.52	140.26	10,394.0	-212.1	176.4	-209.9	0.00	0.00	0.00
10,500.0	2.52	140.26	10,493.9	-215.5	179.2	-213.3	0.00	0.00	0.00
10,600.0	2.52	140.26	10,593.8	-218.9	182.0	-216.6	0.00	0.00	0.00



EOG Resources, Inc.

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Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25' @ 3493.0usft
MD Reference: KB = 25' @ 3493.0usft
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)
10,662.8	2.52	140.26	10,656.5	-221.0	183.7	-218.7	0.00	0.00	0.00
10,675.0	1.67	106.36	10,668.7	-221.3	184.1	-219.0	12.00	-6.96	-277.18
10,700.0	2.98	31.96	10,693.7	-220.8	184.8	-218.5	12.00	5.25	-297.60
10,725.0	5.74	15.69	10,718.6	-219.1	185.5	-216.8	12.00	11.05	-65.09
10,750.0	8.67	10.13	10,743.4	-216.0	186.1	-213.7	12.00	11.69	-22.21
10,775.0	11.63	7.38	10,768.0	-211.7	186.8	-209.3	12.00	11.85	-11.02
10,800.0	14.60	5.74	10,792.4	-206.0	187.4	-203.7	12.00	11.91	-6.58
10,825.0	17.59	4.64	10,816.4	-199.1	188.0	-196.8	12.00	11.94	-4.39
10,850.0	20.58	3.85	10,840.0	-191.0	188.6	-188.6	12.00	11.96	-3.15
10,875.0	23.57	3.26	10,863.2	-181.6	189.2	-179.2	12.00	11.97	-2.38
10,900.0	26.56	2.79	10,885.8	-171.0	189.8	-168.7	12.00	11.97	-1.87
10,925.0	29.56	2.41	10,907.9	-159.3	190.3	-156.9	12.00	11.98	-1.52
10,950.0	32.55	2.09	10,929.3	-146.4	190.8	-144.0	12.00	11.98	-1.26
10,975.0	35.55	1.83	10,950.0	-132.4	191.3	-130.0	12.00	11.99	-1.07
11,000.0	38.55	1.60	10,970.0	-117.3	191.7	-115.0	12.00	11.99	-0.92
11,025.0	41.54	1.39	10,989.1	-101.3	192.2	-98.9	12.00	11.99	-0.81
11,050.0	44.54	1.21	11,007.4	-84.2	192.5	-81.8	12.00	11.99	-0.72
11,075.0	47.54	1.05	11,024.7	-66.2	192.9	-63.8	12.00	11.99	-0.65
11,100.0	50.54	0.91	11,041.1	-47.3	193.2	-45.0	12.00	11.99	-0.59
11,125.0	53.54	0.77	11,056.5	-27.6	193.5	-25.3	12.00	11.99	-0.54
11,150.0	56.53	0.65	11,070.8	-7.2	193.8	-4.8	12.00	11.99	-0.50
11,175.0	59.53	0.53	11,084.0	14.0	194.0	16.4	12.00	11.99	-0.47
11,200.0	62.53	0.42	11,096.1	35.9	194.2	38.3	12.00	11.99	-0.44
11,225.0	65.53	0.32	11,107.1	58.4	194.3	60.8	12.00	11.99	-0.41
11,239.5	67.27	0.26	11,112.9	71.7	194.4	74.1	12.00	11.99	-0.40
FTP (Hearn 34 State Com #504H)									
11,250.0	68.53	0.22	11,116.8	81.4	194.4	83.8	12.00	11.99	-0.39
11,275.0	71.53	0.12	11,125.4	104.9	194.5	107.3	12.00	11.99	-0.38
11,300.0	74.52	0.03	11,132.7	128.8	194.5	131.2	12.00	11.99	-0.37
11,325.0	77.52	359.94	11,138.7	153.1	194.5	155.4	12.00	12.00	-0.36
11,350.0	80.52	359.86	11,143.5	177.6	194.5	180.0	12.00	12.00	-0.35
11,375.0	83.52	359.77	11,146.9	202.4	194.4	204.7	12.00	12.00	-0.34
11,400.0	86.52	359.69	11,149.1	227.3	194.3	229.6	12.00	12.00	-0.34
11,425.0	89.52	359.60	11,150.0	252.2	194.1	254.6	12.00	12.00	-0.34
11,429.0	90.00	359.59	11,150.0	256.3	194.1	258.6	12.00	12.00	-0.33
11,500.0	90.00	359.59	11,150.0	327.2	193.6	329.6	0.00	0.00	0.00
11,600.0	90.00	359.59	11,150.0	427.2	192.9	429.6	0.00	0.00	0.00
11,700.0	90.00	359.59	11,150.0	527.2	192.2	529.6	0.00	0.00	0.00
11,800.0	90.00	359.59	11,150.0	627.2	191.4	629.5	0.00	0.00	0.00
11,900.0	90.00	359.59	11,150.0	727.2	190.7	729.5	0.00	0.00	0.00
12,000.0	90.00	359.59	11,150.0	827.2	190.0	829.5	0.00	0.00	0.00
12,100.0	90.00	359.59	11,150.0	927.2	189.3	929.5	0.00	0.00	0.00
12,200.0	90.00	359.59	11,150.0	1,027.2	188.6	1,029.5	0.00	0.00	0.00
12,300.0	90.00	359.59	11,150.0	1,127.2	187.9	1,129.4	0.00	0.00	0.00
12,400.0	90.00	359.59	11,150.0	1,227.2	187.1	1,229.4	0.00	0.00	0.00
12,500.0	90.00	359.59	11,150.0	1,327.2	186.4	1,329.4	0.00	0.00	0.00
12,600.0	90.00	359.59	11,150.0	1,427.2	185.7	1,429.4	0.00	0.00	0.00
12,700.0	90.00	359.59	11,150.0	1,527.2	185.0	1,529.4	0.00	0.00	0.00
12,800.0	90.00	359.59	11,150.0	1,627.2	184.3	1,629.4	0.00	0.00	0.00
12,900.0	90.00	359.59	11,150.0	1,727.2	183.6	1,729.3	0.00	0.00	0.00
13,000.0	90.00	359.59	11,150.0	1,827.2	182.8	1,829.3	0.00	0.00	0.00
13,100.0	90.00	359.59	11,150.0	1,927.2	182.1	1,929.3	0.00	0.00	0.00
13,200.0	90.00	359.59	11,150.0	2,027.2	181.4	2,029.3	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Corn
Well: #504H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25' @ 3493.0usft
MD Reference: KB = 25' @ 3493.0usft
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	359.59	11,150.0	2,127.2	180.7	2,129.3	0.00	0.00	0.00
13,400.0	90.00	359.59	11,150.0	2,227.2	180.0	2,229.2	0.00	0.00	0.00
13,500.0	90.00	359.59	11,150.0	2,327.2	179.3	2,329.2	0.00	0.00	0.00
13,600.0	90.00	359.59	11,150.0	2,427.2	178.6	2,429.2	0.00	0.00	0.00
13,700.0	90.00	359.59	11,150.0	2,527.2	177.8	2,529.2	0.00	0.00	0.00
13,800.0	90.00	359.59	11,150.0	2,627.2	177.1	2,629.2	0.00	0.00	0.00
13,900.0	90.00	359.59	11,150.0	2,727.2	176.4	2,729.1	0.00	0.00	0.00
14,000.0	90.00	359.59	11,150.0	2,827.2	175.7	2,829.1	0.00	0.00	0.00
14,100.0	90.00	359.59	11,150.0	2,927.2	175.0	2,929.1	0.00	0.00	0.00
14,200.0	90.00	359.59	11,150.0	3,027.2	174.3	3,029.1	0.00	0.00	0.00
14,300.0	90.00	359.59	11,150.0	3,127.2	173.5	3,129.1	0.00	0.00	0.00
14,400.0	90.00	359.59	11,150.0	3,227.2	172.8	3,229.0	0.00	0.00	0.00
14,500.0	90.00	359.59	11,150.0	3,327.2	172.1	3,329.0	0.00	0.00	0.00
14,600.0	90.00	359.59	11,150.0	3,427.2	171.4	3,429.0	0.00	0.00	0.00
14,700.0	90.00	359.59	11,150.0	3,527.2	170.7	3,529.0	0.00	0.00	0.00
14,800.0	90.00	359.59	11,150.0	3,627.2	170.0	3,629.0	0.00	0.00	0.00
14,900.0	90.00	359.59	11,150.0	3,727.2	169.3	3,729.0	0.00	0.00	0.00
15,000.0	90.00	359.59	11,150.0	3,827.1	168.5	3,828.9	0.00	0.00	0.00
15,100.0	90.00	359.59	11,150.0	3,927.1	167.8	3,928.9	0.00	0.00	0.00
15,200.0	90.00	359.59	11,150.0	4,027.1	167.1	4,028.9	0.00	0.00	0.00
15,300.0	90.00	359.59	11,150.0	4,127.1	166.4	4,128.9	0.00	0.00	0.00
15,400.0	90.00	359.59	11,150.0	4,227.1	165.7	4,228.9	0.00	0.00	0.00
15,500.0	90.00	359.59	11,150.0	4,327.1	165.0	4,328.8	0.00	0.00	0.00
15,600.0	90.00	359.59	11,150.0	4,427.1	164.2	4,428.8	0.00	0.00	0.00
15,700.0	90.00	359.59	11,150.0	4,527.1	163.5	4,528.8	0.00	0.00	0.00
15,800.0	90.00	359.59	11,150.0	4,627.1	162.8	4,628.8	0.00	0.00	0.00
15,900.0	90.00	359.59	11,150.0	4,727.1	162.1	4,728.8	0.00	0.00	0.00
16,000.0	90.00	359.59	11,150.0	4,827.1	161.4	4,828.7	0.00	0.00	0.00
16,100.0	90.00	359.59	11,150.0	4,927.1	160.7	4,928.7	0.00	0.00	0.00
16,200.0	90.00	359.59	11,150.0	5,027.1	160.0	5,028.7	0.00	0.00	0.00
16,300.0	90.00	359.59	11,150.0	5,127.1	159.2	5,128.7	0.00	0.00	0.00
16,400.0	90.00	359.59	11,150.0	5,227.1	158.5	5,228.7	0.00	0.00	0.00
16,500.0	90.00	359.59	11,150.0	5,327.1	157.8	5,328.7	0.00	0.00	0.00
16,600.0	90.00	359.59	11,150.0	5,427.1	157.1	5,428.6	0.00	0.00	0.00
16,700.0	90.00	359.59	11,150.0	5,527.1	156.4	5,528.6	0.00	0.00	0.00
16,800.0	90.00	359.59	11,150.0	5,627.1	155.7	5,628.6	0.00	0.00	0.00
16,900.0	90.00	359.59	11,150.0	5,727.1	154.9	5,728.6	0.00	0.00	0.00
17,000.0	90.00	359.59	11,150.0	5,827.1	154.2	5,828.6	0.00	0.00	0.00
17,100.0	90.00	359.59	11,150.0	5,927.1	153.5	5,928.5	0.00	0.00	0.00
17,200.0	90.00	359.59	11,150.0	6,027.1	152.8	6,028.5	0.00	0.00	0.00
17,300.0	90.00	359.59	11,150.0	6,127.1	152.1	6,128.5	0.00	0.00	0.00
17,400.0	90.00	359.59	11,150.0	6,227.1	151.4	6,228.5	0.00	0.00	0.00
17,500.0	90.00	359.59	11,150.0	6,327.1	150.6	6,328.5	0.00	0.00	0.00
17,600.0	90.00	359.59	11,150.0	6,427.1	149.9	6,428.4	0.00	0.00	0.00
17,700.0	90.00	359.59	11,150.0	6,527.1	149.2	6,528.4	0.00	0.00	0.00
17,800.0	90.00	359.59	11,150.0	6,627.1	148.5	6,628.4	0.00	0.00	0.00
17,900.0	90.00	359.59	11,150.0	6,727.1	147.8	6,728.4	0.00	0.00	0.00
18,000.0	90.00	359.59	11,150.0	6,827.1	147.1	6,828.4	0.00	0.00	0.00
18,100.0	90.00	359.59	11,150.0	6,927.1	146.4	6,928.3	0.00	0.00	0.00
18,200.0	90.00	359.59	11,150.0	7,027.1	145.6	7,028.3	0.00	0.00	0.00
18,300.0	90.00	359.59	11,150.0	7,127.1	144.9	7,128.3	0.00	0.00	0.00
18,400.0	90.00	359.59	11,150.0	7,227.1	144.2	7,228.3	0.00	0.00	0.00
18,500.0	90.00	359.59	11,150.0	7,327.1	143.5	7,328.3	0.00	0.00	0.00
18,600.0	90.00	359.59	11,150.0	7,427.1	142.8	7,428.3	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Com
Well: #504H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25' @ 3493.0usft
MD Reference: KB = 25' @ 3493.0usft
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)
18,700.0	90.00	359.59	11,150.0	7,527.1	142.1	7,528.2	0.00	0.00	0.00
18,800.0	90.00	359.59	11,150.0	7,627.1	141.3	7,628.2	0.00	0.00	0.00
18,900.0	90.00	359.59	11,150.0	7,727.0	140.6	7,728.2	0.00	0.00	0.00
19,000.0	90.00	359.59	11,150.0	7,827.0	139.9	7,828.2	0.00	0.00	0.00
19,100.0	90.00	359.59	11,150.0	7,927.0	139.2	7,928.2	0.00	0.00	0.00
19,200.0	90.00	359.59	11,150.0	8,027.0	138.5	8,028.1	0.00	0.00	0.00
19,300.0	90.00	359.59	11,150.0	8,127.0	137.8	8,128.1	0.00	0.00	0.00
19,400.0	90.00	359.59	11,150.0	8,227.0	137.1	8,228.1	0.00	0.00	0.00
19,500.0	90.00	359.59	11,150.0	8,327.0	136.3	8,328.1	0.00	0.00	0.00
19,600.0	90.00	359.59	11,150.0	8,427.0	135.6	8,428.1	0.00	0.00	0.00
19,700.0	90.00	359.59	11,150.0	8,527.0	134.9	8,528.0	0.00	0.00	0.00
19,800.0	90.00	359.59	11,150.0	8,627.0	134.2	8,628.0	0.00	0.00	0.00
19,900.0	90.00	359.59	11,150.0	8,727.0	133.5	8,728.0	0.00	0.00	0.00
20,000.0	90.00	359.59	11,150.0	8,827.0	132.8	8,828.0	0.00	0.00	0.00
20,100.0	90.00	359.59	11,150.0	8,927.0	132.0	8,928.0	0.00	0.00	0.00
20,200.0	90.00	359.59	11,150.0	9,027.0	131.3	9,027.9	0.00	0.00	0.00
20,300.0	90.00	359.59	11,150.0	9,127.0	130.6	9,127.9	0.00	0.00	0.00
20,400.0	90.00	359.59	11,150.0	9,227.0	129.9	9,227.9	0.00	0.00	0.00
20,500.0	90.00	359.59	11,150.0	9,327.0	129.2	9,327.9	0.00	0.00	0.00
20,600.0	90.00	359.59	11,150.0	9,427.0	128.5	9,427.9	0.00	0.00	0.00
20,700.0	90.00	359.59	11,150.0	9,527.0	127.7	9,527.9	0.00	0.00	0.00
20,800.0	90.00	359.59	11,150.0	9,627.0	127.0	9,627.8	0.00	0.00	0.00
20,900.0	90.00	359.59	11,150.0	9,727.0	126.3	9,727.8	0.00	0.00	0.00
21,000.0	90.00	359.59	11,150.0	9,827.0	125.6	9,827.8	0.00	0.00	0.00
21,100.0	90.00	359.59	11,150.0	9,927.0	124.9	9,927.8	0.00	0.00	0.00
21,200.0	90.00	359.59	11,150.0	10,027.0	124.2	10,027.8	0.00	0.00	0.00
21,224.0	90.00	359.59	11,150.0	10,051.0	124.0	10,051.8	0.00	0.00	0.00

PBHL (Hearn 34 State Com #504H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Hearn 34 State C	0.00	0.00	11,150.0	10,051.0	124.0	435,619.00	780,974.00	32° 11' 42.796 N	103° 33' 31.129 W
- plan hits target center									
- Point									
FTP (Hearn 34 State C	0.00	0.00	11,150.0	56.0	194.0	425,624.00	781,044.00	32° 10' 3.888 N	103° 33' 31.152 W
- plan misses target center by 40.3usft at 11239.5usft MD (11112.9 TVD, 71.7 N, 194.4 E)									
- Point									