



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#503H

OH

Plan: Plan #0.1

Standard Planning Report

05 February, 2019

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3484.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3484.0usft
Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#503H	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	Hearns 34 State Com		
Site Position:		Northing:	425,568.00 usft
From:	Map	Easting:	780,745.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 3.355 N
		Longitude:	103° 33' 34.635 W
		Grid Convergence:	0.41 °

Well	#503H		
Well Position	+N/-S	571.0 usft	Northing: 426,139.00 usft
	+E/-W	-1,038.0 usft	Easting: 779,707.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 10' 9.079 N
			Longitude: 103° 33' 46.663 W
			Ground Level: 3,459.0 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/5/2019	6.77	59.99	47,737.83737042

Design	Plan #0.1		
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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	2.27

Plan Survey Tool Program			Date	2/5/2019	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	21,189.2	Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard		

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	
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,901.5	9.03	150.21	1,899.6	-30.8	17.6	2.00	2.00	0.00	150.21	
7,322.4	9.03	150.21	7,253.4	-769.2	440.4	0.00	0.00	0.00	0.00	
7,773.9	0.00	0.00	7,703.0	-800.0	458.0	2.00	-2.00	0.00	180.00	
10,512.4	0.00	0.00	10,441.5	-800.0	458.0	0.00	0.00	0.00	0.00	0.00 KOP (Hearns 34 State)
11,262.4	90.00	359.58	10,919.0	-322.5	454.5	12.00	12.00	-0.06	359.58	
21,189.2	90.00	359.58	10,919.0	9,604.0	381.0	0.00	0.00	0.00	0.00	0.00 PBHL (Hearns 34 State)

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Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#503H	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	
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	1.00	150.21	1,500.0	-0.4	0.2	-0.4	2.00	2.00	0.00	
1,600.0	3.00	150.21	1,599.9	-3.4	2.0	-3.3	2.00	2.00	0.00	
1,700.0	5.00	150.21	1,699.7	-9.5	5.4	-9.2	2.00	2.00	0.00	
1,800.0	7.00	150.21	1,799.1	-18.5	10.6	-18.1	2.00	2.00	0.00	
1,901.5	9.03	150.21	1,899.6	-30.8	17.6	-30.1	2.00	2.00	0.00	
2,000.0	9.03	150.21	1,996.9	-44.2	25.3	-43.2	0.00	0.00	0.00	
2,100.0	9.03	150.21	2,095.7	-57.9	33.1	-56.5	0.00	0.00	0.00	
2,200.0	9.03	150.21	2,194.4	-71.5	40.9	-69.8	0.00	0.00	0.00	
2,300.0	9.03	150.21	2,293.2	-85.1	48.7	-83.1	0.00	0.00	0.00	
2,400.0	9.03	150.21	2,392.0	-98.7	56.5	-96.4	0.00	0.00	0.00	
2,500.0	9.03	150.21	2,490.7	-112.3	64.3	-109.7	0.00	0.00	0.00	
2,600.0	9.03	150.21	2,589.5	-126.0	72.1	-123.0	0.00	0.00	0.00	
2,700.0	9.03	150.21	2,688.2	-139.6	79.9	-136.3	0.00	0.00	0.00	
2,800.0	9.03	150.21	2,787.0	-153.2	87.7	-149.6	0.00	0.00	0.00	
2,900.0	9.03	150.21	2,885.8	-166.8	95.5	-162.9	0.00	0.00	0.00	
3,000.0	9.03	150.21	2,984.5	-180.4	103.3	-176.2	0.00	0.00	0.00	
3,100.0	9.03	150.21	3,083.3	-194.1	111.1	-189.5	0.00	0.00	0.00	
3,200.0	9.03	150.21	3,182.0	-207.7	118.9	-202.8	0.00	0.00	0.00	
3,300.0	9.03	150.21	3,280.8	-221.3	126.7	-216.1	0.00	0.00	0.00	
3,400.0	9.03	150.21	3,379.6	-234.9	134.5	-229.4	0.00	0.00	0.00	
3,500.0	9.03	150.21	3,478.3	-248.5	142.3	-242.7	0.00	0.00	0.00	
3,600.0	9.03	150.21	3,577.1	-262.2	150.1	-256.0	0.00	0.00	0.00	
3,700.0	9.03	150.21	3,675.8	-275.8	157.9	-269.3	0.00	0.00	0.00	
3,800.0	9.03	150.21	3,774.6	-289.4	165.7	-282.6	0.00	0.00	0.00	
3,900.0	9.03	150.21	3,873.4	-303.0	173.5	-295.9	0.00	0.00	0.00	
4,000.0	9.03	150.21	3,972.1	-316.6	181.3	-309.2	0.00	0.00	0.00	
4,100.0	9.03	150.21	4,070.9	-330.3	189.1	-322.5	0.00	0.00	0.00	
4,200.0	9.03	150.21	4,169.6	-343.9	196.9	-335.8	0.00	0.00	0.00	
4,300.0	9.03	150.21	4,268.4	-357.5	204.7	-349.1	0.00	0.00	0.00	
4,400.0	9.03	150.21	4,367.2	-371.1	212.5	-362.4	0.00	0.00	0.00	
4,500.0	9.03	150.21	4,465.9	-384.8	220.3	-375.7	0.00	0.00	0.00	
4,600.0	9.03	150.21	4,564.7	-398.4	228.1	-389.0	0.00	0.00	0.00	
4,700.0	9.03	150.21	4,663.4	-412.0	235.9	-402.3	0.00	0.00	0.00	
4,800.0	9.03	150.21	4,762.2	-425.6	243.7	-415.6	0.00	0.00	0.00	
4,900.0	9.03	150.21	4,861.0	-439.2	251.5	-428.9	0.00	0.00	0.00	
5,000.0	9.03	150.21	4,959.7	-452.9	259.3	-442.2	0.00	0.00	0.00	
5,100.0	9.03	150.21	5,058.5	-466.5	267.1	-455.5	0.00	0.00	0.00	
5,200.0	9.03	150.21	5,157.3	-480.1	274.9	-468.8	0.00	0.00	0.00	

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Wellbore:	OH		
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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	9.03	150.21	5,256.0	-493.7	282.7	-482.1	0.00	0.00	0.00
5,400.0	9.03	150.21	5,354.8	-507.3	290.5	-495.4	0.00	0.00	0.00
5,500.0	9.03	150.21	5,453.5	-521.0	298.2	-508.7	0.00	0.00	0.00
5,600.0	9.03	150.21	5,552.3	-534.6	306.0	-522.0	0.00	0.00	0.00
5,700.0	9.03	150.21	5,651.1	-548.2	313.8	-535.3	0.00	0.00	0.00
5,800.0	9.03	150.21	5,749.8	-561.8	321.6	-548.6	0.00	0.00	0.00
5,900.0	9.03	150.21	5,848.6	-575.4	329.4	-561.9	0.00	0.00	0.00
6,000.0	9.03	150.21	5,947.3	-589.1	337.2	-575.2	0.00	0.00	0.00
6,100.0	9.03	150.21	6,046.1	-602.7	345.0	-588.5	0.00	0.00	0.00
6,200.0	9.03	150.21	6,144.9	-616.3	352.8	-601.8	0.00	0.00	0.00
6,300.0	9.03	150.21	6,243.6	-629.9	360.6	-615.1	0.00	0.00	0.00
6,400.0	9.03	150.21	6,342.4	-643.5	368.4	-628.4	0.00	0.00	0.00
6,500.0	9.03	150.21	6,441.1	-657.2	376.2	-641.7	0.00	0.00	0.00
6,600.0	9.03	150.21	6,539.9	-670.8	384.0	-655.0	0.00	0.00	0.00
6,700.0	9.03	150.21	6,638.7	-684.4	391.8	-668.3	0.00	0.00	0.00
6,800.0	9.03	150.21	6,737.4	-698.0	399.6	-681.6	0.00	0.00	0.00
6,900.0	9.03	150.21	6,836.2	-711.7	407.4	-694.9	0.00	0.00	0.00
7,000.0	9.03	150.21	6,934.9	-725.3	415.2	-708.2	0.00	0.00	0.00
7,100.0	9.03	150.21	7,033.7	-738.9	423.0	-721.5	0.00	0.00	0.00
7,200.0	9.03	150.21	7,132.5	-752.5	430.8	-734.8	0.00	0.00	0.00
7,300.0	9.03	150.21	7,231.2	-766.1	438.6	-748.1	0.00	0.00	0.00
7,322.4	9.03	150.21	7,253.4	-769.2	440.4	-751.1	0.00	0.00	0.00
7,400.0	7.48	150.21	7,330.1	-778.9	445.9	-760.6	2.00	-2.00	0.00
7,500.0	5.48	150.21	7,429.5	-788.6	451.5	-770.1	2.00	-2.00	0.00
7,600.0	3.48	150.21	7,529.2	-795.4	455.4	-776.7	2.00	-2.00	0.00
7,700.0	1.48	150.21	7,629.1	-799.2	457.5	-780.4	2.00	-2.00	0.00
7,773.9	0.00	0.00	7,703.0	-800.0	458.0	-781.2	2.00	-2.00	0.00
7,800.0	0.00	0.00	7,729.1	-800.0	458.0	-781.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,829.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,929.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,029.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,129.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,229.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,329.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,429.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,529.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,629.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,729.1	-800.0	458.0	-781.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,829.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,929.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,029.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,129.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,229.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,329.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,429.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,529.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,629.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,729.1	-800.0	458.0	-781.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,829.1	-800.0	458.0	-781.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,929.1	-800.0	458.0	-781.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,029.1	-800.0	458.0	-781.2	0.00	0.00	0.00
10,200.0	0.00	0.00	10,129.1	-800.0	458.0	-781.2	0.00	0.00	0.00
10,300.0	0.00	0.00	10,229.1	-800.0	458.0	-781.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,329.1	-800.0	458.0	-781.2	0.00	0.00	0.00

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Wellbore:	OH		
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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)
10,500.0	0.00	0.00	10,429.1	-800.0	458.0	-781.2	0.00	0.00	0.00
10,512.4	0.00	0.00	10,441.5	-800.0	458.0	-781.2	0.00	0.00	0.00
KOP (Hearns 34 State Com #503H)									
10,525.0	1.51	359.58	10,454.1	-799.8	458.0	-781.1	12.00	12.00	0.00
10,550.0	4.51	359.58	10,479.0	-798.5	458.0	-779.7	12.00	12.00	0.00
10,575.0	7.51	359.58	10,503.9	-795.9	458.0	-777.1	12.00	12.00	0.00
10,600.0	10.51	359.58	10,528.6	-792.0	457.9	-773.2	12.00	12.00	0.00
10,625.0	13.51	359.58	10,553.0	-786.8	457.9	-768.0	12.00	12.00	0.00
10,650.0	16.51	359.58	10,577.2	-780.3	457.9	-761.6	12.00	12.00	0.00
10,675.0	19.51	359.58	10,601.0	-772.6	457.8	-753.8	12.00	12.00	0.00
10,700.0	22.51	359.58	10,624.3	-763.6	457.7	-744.9	12.00	12.00	0.00
10,725.0	25.51	359.58	10,647.1	-753.5	457.7	-734.7	12.00	12.00	0.00
10,750.0	28.51	359.58	10,669.4	-742.1	457.6	-723.4	12.00	12.00	0.00
10,775.0	31.51	359.58	10,691.0	-729.6	457.5	-710.9	12.00	12.00	0.00
10,800.0	34.51	359.58	10,712.0	-716.0	457.4	-697.3	12.00	12.00	0.00
10,825.0	37.51	359.58	10,732.2	-701.3	457.3	-682.6	12.00	12.00	0.00
10,850.0	40.51	359.58	10,751.7	-685.6	457.2	-666.9	12.00	12.00	0.00
10,875.0	43.51	359.58	10,770.2	-668.8	457.0	-650.2	12.00	12.00	0.00
10,900.0	46.51	359.58	10,787.9	-651.1	456.9	-632.5	12.00	12.00	0.00
10,914.2	48.22	359.58	10,797.5	-640.7	456.8	-622.1	12.00	12.00	0.00
FTP (Hearns 34 State Com #503H)									
10,925.0	49.51	359.58	10,804.6	-632.6	456.8	-614.0	12.00	12.00	0.00
10,950.0	52.51	359.58	10,820.3	-613.1	456.6	-594.6	12.00	12.00	0.00
10,975.0	55.51	359.58	10,835.0	-592.9	456.5	-574.4	12.00	12.00	0.00
11,000.0	58.51	359.58	10,848.6	-571.9	456.3	-553.4	12.00	12.00	0.00
11,025.0	61.51	359.58	10,861.1	-550.3	456.2	-531.8	12.00	12.00	0.00
11,050.0	64.51	359.58	10,872.5	-528.0	456.0	-509.5	12.00	12.00	0.00
11,075.0	67.51	359.58	10,882.7	-505.2	455.8	-486.7	12.00	12.00	0.00
11,100.0	70.51	359.58	10,891.6	-481.8	455.6	-463.4	12.00	12.00	0.00
11,125.0	73.51	359.58	10,899.3	-458.1	455.5	-439.7	12.00	12.00	0.00
11,150.0	76.51	359.58	10,905.8	-433.9	455.3	-415.5	12.00	12.00	0.00
11,175.0	79.51	359.58	10,911.0	-409.5	455.1	-391.1	12.00	12.00	0.00
11,200.0	82.51	359.58	10,914.9	-384.8	454.9	-366.5	12.00	12.00	0.00
11,225.0	85.51	359.58	10,917.5	-359.9	454.7	-341.6	12.00	12.00	0.00
11,250.0	88.51	359.58	10,918.8	-335.0	454.6	-316.7	12.00	12.00	0.00
11,262.4	90.00	359.58	10,919.0	-322.5	454.5	-304.3	12.00	12.00	0.00
11,300.0	90.00	359.58	10,919.0	-285.0	454.2	-266.7	0.00	0.00	0.00
11,400.0	90.00	359.58	10,919.0	-185.0	453.4	-166.9	0.00	0.00	0.00
11,500.0	90.00	359.58	10,919.0	-85.0	452.7	-67.0	0.00	0.00	0.00
11,600.0	90.00	359.58	10,919.0	15.0	452.0	32.9	0.00	0.00	0.00
11,700.0	90.00	359.58	10,919.0	115.0	451.2	132.8	0.00	0.00	0.00
11,800.0	90.00	359.58	10,919.0	215.0	450.5	232.7	0.00	0.00	0.00
11,900.0	90.00	359.58	10,919.0	315.0	449.7	332.6	0.00	0.00	0.00
12,000.0	90.00	359.58	10,919.0	415.0	449.0	432.5	0.00	0.00	0.00
12,100.0	90.00	359.58	10,919.0	515.0	448.3	532.4	0.00	0.00	0.00
12,200.0	90.00	359.58	10,919.0	615.0	447.5	632.3	0.00	0.00	0.00
12,300.0	90.00	359.58	10,919.0	715.0	446.8	732.2	0.00	0.00	0.00
12,400.0	90.00	359.58	10,919.0	815.0	446.0	832.0	0.00	0.00	0.00
12,500.0	90.00	359.58	10,919.0	915.0	445.3	931.9	0.00	0.00	0.00
12,600.0	90.00	359.58	10,919.0	1,015.0	444.6	1,031.8	0.00	0.00	0.00
12,700.0	90.00	359.58	10,919.0	1,115.0	443.8	1,131.7	0.00	0.00	0.00
12,800.0	90.00	359.58	10,919.0	1,215.0	443.1	1,231.6	0.00	0.00	0.00
12,900.0	90.00	359.58	10,919.0	1,315.0	442.3	1,331.5	0.00	0.00	0.00
13,000.0	90.00	359.58	10,919.0	1,415.0	441.6	1,431.4	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3484.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3484.0usft
Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#503H	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)
13,100.0	90.00	359.58	10,919.0	1,515.0	440.9	1,531.3	0.00	0.00	0.00
13,200.0	90.00	359.58	10,919.0	1,615.0	440.1	1,631.2	0.00	0.00	0.00
13,300.0	90.00	359.58	10,919.0	1,715.0	439.4	1,731.0	0.00	0.00	0.00
13,400.0	90.00	359.58	10,919.0	1,815.0	438.6	1,830.9	0.00	0.00	0.00
13,500.0	90.00	359.58	10,919.0	1,915.0	437.9	1,930.8	0.00	0.00	0.00
13,600.0	90.00	359.58	10,919.0	2,015.0	437.2	2,030.7	0.00	0.00	0.00
13,700.0	90.00	359.58	10,919.0	2,115.0	436.4	2,130.6	0.00	0.00	0.00
13,800.0	90.00	359.58	10,919.0	2,215.0	435.7	2,230.5	0.00	0.00	0.00
13,900.0	90.00	359.58	10,919.0	2,315.0	434.9	2,330.4	0.00	0.00	0.00
14,000.0	90.00	359.58	10,919.0	2,415.0	434.2	2,430.3	0.00	0.00	0.00
14,100.0	90.00	359.58	10,919.0	2,515.0	433.5	2,530.2	0.00	0.00	0.00
14,200.0	90.00	359.58	10,919.0	2,615.0	432.7	2,630.1	0.00	0.00	0.00
14,300.0	90.00	359.58	10,919.0	2,715.0	432.0	2,729.9	0.00	0.00	0.00
14,400.0	90.00	359.58	10,919.0	2,814.9	431.2	2,829.8	0.00	0.00	0.00
14,500.0	90.00	359.58	10,919.0	2,914.9	430.5	2,929.7	0.00	0.00	0.00
14,600.0	90.00	359.58	10,919.0	3,014.9	429.8	3,029.6	0.00	0.00	0.00
14,700.0	90.00	359.58	10,919.0	3,114.9	429.0	3,129.5	0.00	0.00	0.00
14,800.0	90.00	359.58	10,919.0	3,214.9	428.3	3,229.4	0.00	0.00	0.00
14,900.0	90.00	359.58	10,919.0	3,314.9	427.5	3,329.3	0.00	0.00	0.00
15,000.0	90.00	359.58	10,919.0	3,414.9	426.8	3,429.2	0.00	0.00	0.00
15,100.0	90.00	359.58	10,919.0	3,514.9	426.1	3,529.1	0.00	0.00	0.00
15,200.0	90.00	359.58	10,919.0	3,614.9	425.3	3,628.9	0.00	0.00	0.00
15,300.0	90.00	359.58	10,919.0	3,714.9	424.6	3,728.8	0.00	0.00	0.00
15,400.0	90.00	359.58	10,919.0	3,814.9	423.8	3,828.7	0.00	0.00	0.00
15,500.0	90.00	359.58	10,919.0	3,914.9	423.1	3,928.6	0.00	0.00	0.00
15,600.0	90.00	359.58	10,919.0	4,014.9	422.4	4,028.5	0.00	0.00	0.00
15,700.0	90.00	359.58	10,919.0	4,114.9	421.6	4,128.4	0.00	0.00	0.00
15,800.0	90.00	359.58	10,919.0	4,214.9	420.9	4,228.3	0.00	0.00	0.00
15,900.0	90.00	359.58	10,919.0	4,314.9	420.1	4,328.2	0.00	0.00	0.00
16,000.0	90.00	359.58	10,919.0	4,414.9	419.4	4,428.1	0.00	0.00	0.00
16,100.0	90.00	359.58	10,919.0	4,514.9	418.7	4,527.9	0.00	0.00	0.00
16,200.0	90.00	359.58	10,919.0	4,614.9	417.9	4,627.8	0.00	0.00	0.00
16,300.0	90.00	359.58	10,919.0	4,714.9	417.2	4,727.7	0.00	0.00	0.00
16,400.0	90.00	359.58	10,919.0	4,814.9	416.4	4,827.6	0.00	0.00	0.00
16,500.0	90.00	359.58	10,919.0	4,914.9	415.7	4,927.5	0.00	0.00	0.00
16,600.0	90.00	359.58	10,919.0	5,014.9	415.0	5,027.4	0.00	0.00	0.00
16,700.0	90.00	359.58	10,919.0	5,114.9	414.2	5,127.3	0.00	0.00	0.00
16,800.0	90.00	359.58	10,919.0	5,214.9	413.5	5,227.2	0.00	0.00	0.00
16,900.0	90.00	359.58	10,919.0	5,314.9	412.7	5,327.1	0.00	0.00	0.00
17,000.0	90.00	359.58	10,919.0	5,414.9	412.0	5,427.0	0.00	0.00	0.00
17,100.0	90.00	359.58	10,919.0	5,514.9	411.3	5,526.8	0.00	0.00	0.00
17,200.0	90.00	359.58	10,919.0	5,614.9	410.5	5,626.7	0.00	0.00	0.00
17,300.0	90.00	359.58	10,919.0	5,714.9	409.8	5,726.6	0.00	0.00	0.00
17,400.0	90.00	359.58	10,919.0	5,814.9	409.0	5,826.5	0.00	0.00	0.00
17,500.0	90.00	359.58	10,919.0	5,914.9	408.3	5,926.4	0.00	0.00	0.00
17,600.0	90.00	359.58	10,919.0	6,014.9	407.6	6,026.3	0.00	0.00	0.00
17,700.0	90.00	359.58	10,919.0	6,114.9	406.8	6,126.2	0.00	0.00	0.00
17,800.0	90.00	359.58	10,919.0	6,214.9	406.1	6,226.1	0.00	0.00	0.00
17,900.0	90.00	359.58	10,919.0	6,314.9	405.3	6,326.0	0.00	0.00	0.00
18,000.0	90.00	359.58	10,919.0	6,414.8	404.6	6,425.8	0.00	0.00	0.00
18,100.0	90.00	359.58	10,919.0	6,514.8	403.9	6,525.7	0.00	0.00	0.00
18,200.0	90.00	359.58	10,919.0	6,614.8	403.1	6,625.6	0.00	0.00	0.00
18,300.0	90.00	359.58	10,919.0	6,714.8	402.4	6,725.5	0.00	0.00	0.00
18,400.0	90.00	359.58	10,919.0	6,814.8	401.6	6,825.4	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3484.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3484.0usft
Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#503H	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)
18,500.0	90.00	359.58	10,919.0	6,914.8	400.9	6,925.3	0.00	0.00	0.00
18,600.0	90.00	359.58	10,919.0	7,014.8	400.2	7,025.2	0.00	0.00	0.00
18,700.0	90.00	359.58	10,919.0	7,114.8	399.4	7,125.1	0.00	0.00	0.00
18,800.0	90.00	359.58	10,919.0	7,214.8	398.7	7,225.0	0.00	0.00	0.00
18,900.0	90.00	359.58	10,919.0	7,314.8	397.9	7,324.8	0.00	0.00	0.00
19,000.0	90.00	359.58	10,919.0	7,414.8	397.2	7,424.7	0.00	0.00	0.00
19,100.0	90.00	359.58	10,919.0	7,514.8	396.5	7,524.6	0.00	0.00	0.00
19,200.0	90.00	359.58	10,919.0	7,614.8	395.7	7,624.5	0.00	0.00	0.00
19,300.0	90.00	359.58	10,919.0	7,714.8	395.0	7,724.4	0.00	0.00	0.00
19,400.0	90.00	359.58	10,919.0	7,814.8	394.2	7,824.3	0.00	0.00	0.00
19,500.0	90.00	359.58	10,919.0	7,914.8	393.5	7,924.2	0.00	0.00	0.00
19,600.0	90.00	359.58	10,919.0	8,014.8	392.8	8,024.1	0.00	0.00	0.00
19,700.0	90.00	359.58	10,919.0	8,114.8	392.0	8,124.0	0.00	0.00	0.00
19,800.0	90.00	359.58	10,919.0	8,214.8	391.3	8,223.9	0.00	0.00	0.00
19,900.0	90.00	359.58	10,919.0	8,314.8	390.5	8,323.7	0.00	0.00	0.00
20,000.0	90.00	359.58	10,919.0	8,414.8	389.8	8,423.6	0.00	0.00	0.00
20,100.0	90.00	359.58	10,919.0	8,514.8	389.1	8,523.5	0.00	0.00	0.00
20,200.0	90.00	359.58	10,919.0	8,614.8	388.3	8,623.4	0.00	0.00	0.00
20,300.0	90.00	359.58	10,919.0	8,714.8	387.6	8,723.3	0.00	0.00	0.00
20,400.0	90.00	359.58	10,919.0	8,814.8	386.8	8,823.2	0.00	0.00	0.00
20,500.0	90.00	359.58	10,919.0	8,914.8	386.1	8,923.1	0.00	0.00	0.00
20,600.0	90.00	359.58	10,919.0	9,014.8	385.4	9,023.0	0.00	0.00	0.00
20,700.0	90.00	359.58	10,919.0	9,114.8	384.6	9,122.9	0.00	0.00	0.00
20,800.0	90.00	359.58	10,919.0	9,214.8	383.9	9,222.7	0.00	0.00	0.00
20,900.0	90.00	359.58	10,919.0	9,314.8	383.1	9,322.6	0.00	0.00	0.00
21,000.0	90.00	359.58	10,919.0	9,414.8	382.4	9,422.5	0.00	0.00	0.00
21,100.0	90.00	359.58	10,919.0	9,514.8	381.7	9,522.4	0.00	0.00	0.00
21,189.2	90.00	359.58	10,919.0	9,604.0	381.0	9,611.6	0.00	0.00	0.00

PBHL (Hearns 34 State Com #503H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Hearns 34 State C - hit/miss target - Shape - Point	0.00	0.00	10,441.5	-800.0	458.0	425,339.00	780,165.00	32° 10' 1.130 N	103° 33' 41.402 W
PBHL (Hearns 34 State - plan hits target center - Point	0.00	0.00	10,919.0	9,604.0	381.0	435,743.00	780,088.00	32° 11' 44.086 N	103° 33' 41.429 W
FTP (Hearns 34 State C - plan misses target center by 163.4usft at 10914.2usft MD (10797.5 TVD, -640.7 N, 456.8 E) - Point	0.00	0.00	10,919.0	-750.0	458.0	425,389.00	780,165.00	32° 10' 1.625 N	103° 33' 41.398 W