



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#502H

OH

Plan: Plan #0.1

Standard Planning Report

05 February, 2019

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3485.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3485.0usft
Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#502H	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	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	#502H					
Well Position	+N/-S	598.0 usft	Northing:	426,166.00 usft	Latitude:	32° 10' 9.347 N
	+E/-W	-1,056.0 usft	Easting:	779,689.00 usft	Longitude:	103° 33' 46.870 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,460.0 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	47,737.86823796

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	356.71	

Plan Survey Tool Program	Date 2/5/2019				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	21,174.5 Plan #0.1 (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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,735.2	8.70	203.05	1,733.5	-30.4	-12.9	2.00	2.00	0.00	203.05	
7,273.9	8.70	203.05	7,208.5	-801.6	-341.1	0.00	0.00	0.00	0.00	
7,709.1	0.00	0.00	7,642.0	-832.0	-354.0	2.00	-2.00	0.00	180.00	
10,487.6	0.00	0.00	10,420.5	-832.0	-354.0	0.00	0.00	0.00	0.00	KOP (Hearns 34 State)
11,237.6	90.00	349.00	10,898.0	-363.3	-445.1	12.00	12.00	0.00	349.00	
11,590.2	90.00	359.58	10,898.0	-13.0	-480.1	3.00	0.00	3.00	90.00	
21,174.5	90.00	359.58	10,898.0	9,571.0	-551.0	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:	#502H	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	2.00	203.05	1,400.0	-1.6	-0.7	-1.6	2.00	2.00	0.00
1,500.0	4.00	203.05	1,499.8	-6.4	-2.7	-6.3	2.00	2.00	0.00
1,600.0	6.00	203.05	1,599.5	-14.4	-6.1	-14.1	2.00	2.00	0.00
1,700.0	8.00	203.05	1,698.7	-25.7	-10.9	-25.0	2.00	2.00	0.00
1,735.2	8.70	203.05	1,733.5	-30.4	-12.9	-29.6	2.00	2.00	0.00
1,800.0	8.70	203.05	1,797.6	-39.4	-16.8	-38.4	0.00	0.00	0.00
1,900.0	8.70	203.05	1,896.4	-53.3	-22.7	-51.9	0.00	0.00	0.00
2,000.0	8.70	203.05	1,995.3	-67.2	-28.6	-65.5	0.00	0.00	0.00
2,100.0	8.70	203.05	2,094.1	-81.2	-34.5	-79.0	0.00	0.00	0.00
2,200.0	8.70	203.05	2,193.0	-95.1	-40.5	-92.6	0.00	0.00	0.00
2,300.0	8.70	203.05	2,291.8	-109.0	-46.4	-106.2	0.00	0.00	0.00
2,400.0	8.70	203.05	2,390.7	-122.9	-52.3	-119.7	0.00	0.00	0.00
2,500.0	8.70	203.05	2,489.5	-136.9	-58.2	-133.3	0.00	0.00	0.00
2,600.0	8.70	203.05	2,588.4	-150.8	-64.2	-146.8	0.00	0.00	0.00
2,700.0	8.70	203.05	2,687.2	-164.7	-70.1	-160.4	0.00	0.00	0.00
2,800.0	8.70	203.05	2,786.1	-178.6	-76.0	-174.0	0.00	0.00	0.00
2,900.0	8.70	203.05	2,884.9	-192.6	-81.9	-187.5	0.00	0.00	0.00
3,000.0	8.70	203.05	2,983.8	-206.5	-87.9	-201.1	0.00	0.00	0.00
3,100.0	8.70	203.05	3,082.6	-220.4	-93.8	-214.7	0.00	0.00	0.00
3,200.0	8.70	203.05	3,181.5	-234.3	-99.7	-228.2	0.00	0.00	0.00
3,300.0	8.70	203.05	3,280.3	-248.3	-105.6	-241.8	0.00	0.00	0.00
3,400.0	8.70	203.05	3,379.2	-262.2	-111.6	-255.3	0.00	0.00	0.00
3,500.0	8.70	203.05	3,478.0	-276.1	-117.5	-268.9	0.00	0.00	0.00
3,600.0	8.70	203.05	3,576.9	-290.0	-123.4	-282.5	0.00	0.00	0.00
3,700.0	8.70	203.05	3,675.7	-304.0	-129.3	-296.0	0.00	0.00	0.00
3,800.0	8.70	203.05	3,774.5	-317.9	-135.3	-309.6	0.00	0.00	0.00
3,900.0	8.70	203.05	3,873.4	-331.8	-141.2	-323.1	0.00	0.00	0.00
4,000.0	8.70	203.05	3,972.2	-345.7	-147.1	-336.7	0.00	0.00	0.00
4,100.0	8.70	203.05	4,071.1	-359.7	-153.0	-350.3	0.00	0.00	0.00
4,200.0	8.70	203.05	4,169.9	-373.6	-159.0	-363.8	0.00	0.00	0.00
4,300.0	8.70	203.05	4,268.8	-387.5	-164.9	-377.4	0.00	0.00	0.00
4,400.0	8.70	203.05	4,367.6	-401.4	-170.8	-391.0	0.00	0.00	0.00
4,500.0	8.70	203.05	4,466.5	-415.4	-176.7	-404.5	0.00	0.00	0.00
4,600.0	8.70	203.05	4,565.3	-429.3	-182.7	-418.1	0.00	0.00	0.00
4,700.0	8.70	203.05	4,664.2	-443.2	-188.6	-431.6	0.00	0.00	0.00
4,800.0	8.70	203.05	4,763.0	-457.1	-194.5	-445.2	0.00	0.00	0.00
4,900.0	8.70	203.05	4,861.9	-471.1	-200.4	-458.8	0.00	0.00	0.00
5,000.0	8.70	203.05	4,960.7	-485.0	-206.4	-472.3	0.00	0.00	0.00
5,100.0	8.70	203.05	5,059.6	-498.9	-212.3	-485.9	0.00	0.00	0.00
5,200.0	8.70	203.05	5,158.4	-512.8	-218.2	-499.5	0.00	0.00	0.00

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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)
5,300.0	8.70	203.05	5,257.3	-526.8	-224.1	-513.0	0.00	0.00	0.00
5,400.0	8.70	203.05	5,356.1	-540.7	-230.1	-526.6	0.00	0.00	0.00
5,500.0	8.70	203.05	5,455.0	-554.6	-236.0	-540.1	0.00	0.00	0.00
5,600.0	8.70	203.05	5,553.8	-568.5	-241.9	-553.7	0.00	0.00	0.00
5,700.0	8.70	203.05	5,652.7	-582.5	-247.8	-567.3	0.00	0.00	0.00
5,800.0	8.70	203.05	5,751.5	-596.4	-253.8	-580.8	0.00	0.00	0.00
5,900.0	8.70	203.05	5,850.4	-610.3	-259.7	-594.4	0.00	0.00	0.00
6,000.0	8.70	203.05	5,949.2	-624.2	-265.6	-607.9	0.00	0.00	0.00
6,100.0	8.70	203.05	6,048.1	-638.2	-271.5	-621.5	0.00	0.00	0.00
6,200.0	8.70	203.05	6,146.9	-652.1	-277.5	-635.1	0.00	0.00	0.00
6,300.0	8.70	203.05	6,245.8	-666.0	-283.4	-648.6	0.00	0.00	0.00
6,400.0	8.70	203.05	6,344.6	-679.9	-289.3	-662.2	0.00	0.00	0.00
6,500.0	8.70	203.05	6,443.5	-693.9	-295.2	-675.8	0.00	0.00	0.00
6,600.0	8.70	203.05	6,542.3	-707.8	-301.2	-689.3	0.00	0.00	0.00
6,700.0	8.70	203.05	6,641.1	-721.7	-307.1	-702.9	0.00	0.00	0.00
6,800.0	8.70	203.05	6,740.0	-735.6	-313.0	-716.4	0.00	0.00	0.00
6,900.0	8.70	203.05	6,838.8	-749.6	-318.9	-730.0	0.00	0.00	0.00
7,000.0	8.70	203.05	6,937.7	-763.5	-324.9	-743.6	0.00	0.00	0.00
7,100.0	8.70	203.05	7,036.5	-777.4	-330.8	-757.1	0.00	0.00	0.00
7,200.0	8.70	203.05	7,135.4	-791.3	-336.7	-770.7	0.00	0.00	0.00
7,273.9	8.70	203.05	7,208.5	-801.6	-341.1	-780.7	0.00	0.00	0.00
7,300.0	8.18	203.05	7,234.3	-805.2	-342.6	-784.1	2.00	-2.00	0.00
7,400.0	6.18	203.05	7,333.5	-816.7	-347.5	-795.3	2.00	-2.00	0.00
7,500.0	4.18	203.05	7,433.1	-825.0	-351.0	-803.4	2.00	-2.00	0.00
7,600.0	2.18	203.05	7,532.9	-830.1	-353.2	-808.4	2.00	-2.00	0.00
7,709.1	0.00	0.00	7,642.0	-832.0	-354.0	-810.3	2.00	-2.00	0.00
7,800.0	0.00	0.00	7,732.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,832.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,932.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,032.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,132.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,232.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,332.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,432.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,532.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,632.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,732.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,832.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,932.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,032.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,132.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,232.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,332.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,432.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,532.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,632.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,732.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,832.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,932.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,032.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,132.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,232.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,332.9	-832.0	-354.0	-810.3	0.00	0.00	0.00
10,487.6	0.00	0.00	10,420.5	-832.0	-354.0	-810.3	0.00	0.00	0.00

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Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#502H	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)
KOP (Hearns 34 State Com #502H)									
10,500.0	1.48	349.00	10,432.9	-831.8	-354.0	-810.1	12.00	12.00	0.00
10,525.0	4.48	349.00	10,457.8	-830.6	-354.3	-808.8	12.00	12.00	0.00
10,550.0	7.48	349.00	10,482.7	-828.0	-354.8	-806.2	12.00	12.00	0.00
10,575.0	10.48	349.00	10,507.4	-824.2	-355.5	-802.4	12.00	12.00	0.00
10,600.0	13.48	349.00	10,531.8	-819.1	-356.5	-797.2	12.00	12.00	0.00
10,625.0	16.48	349.00	10,556.0	-812.7	-357.7	-790.8	12.00	12.00	0.00
10,650.0	19.48	349.00	10,579.8	-805.2	-359.2	-783.2	12.00	12.00	0.00
10,675.0	22.48	349.00	10,603.1	-796.4	-360.9	-774.3	12.00	12.00	0.00
10,700.0	25.48	349.00	10,625.9	-786.4	-362.9	-764.2	12.00	12.00	0.00
10,725.0	28.48	349.00	10,648.2	-775.3	-365.0	-753.0	12.00	12.00	0.00
10,750.0	31.48	349.00	10,669.9	-763.0	-367.4	-740.6	12.00	12.00	0.00
10,775.0	34.48	349.00	10,690.8	-749.6	-370.0	-727.1	12.00	12.00	0.00
10,800.0	37.48	349.00	10,711.1	-735.2	-372.8	-712.6	12.00	12.00	0.00
10,825.0	40.48	349.00	10,730.5	-719.8	-375.8	-697.0	12.00	12.00	0.00
10,850.0	43.48	349.00	10,749.1	-703.4	-379.0	-680.4	12.00	12.00	0.00
10,875.0	46.48	349.00	10,766.7	-686.0	-382.4	-662.9	12.00	12.00	0.00
10,900.0	49.48	349.00	10,783.5	-667.8	-385.9	-644.5	12.00	12.00	0.00
FTP (Hearns 34 State Com #502H)									
10,925.0	52.48	349.00	10,799.2	-648.7	-389.6	-625.3	12.00	12.00	0.00
10,950.0	55.48	349.00	10,813.9	-628.9	-393.5	-605.2	12.00	12.00	0.00
10,975.0	58.48	349.00	10,827.5	-608.3	-397.5	-584.5	12.00	12.00	0.00
11,000.0	61.48	349.00	10,840.0	-587.1	-401.6	-563.0	12.00	12.00	0.00
11,025.0	64.48	349.00	10,851.4	-565.2	-405.9	-540.9	12.00	12.00	0.00
11,050.0	67.48	349.00	10,861.6	-542.8	-410.2	-518.3	12.00	12.00	0.00
11,075.0	70.48	349.00	10,870.5	-519.9	-414.7	-495.2	12.00	12.00	0.00
11,100.0	73.48	349.00	10,878.3	-496.5	-419.2	-471.6	12.00	12.00	0.00
11,125.0	76.48	349.00	10,884.7	-472.9	-423.8	-447.7	12.00	12.00	0.00
11,150.0	79.48	349.00	10,889.9	-448.8	-428.5	-423.5	12.00	12.00	0.00
11,175.0	82.48	349.00	10,893.9	-424.6	-433.2	-399.0	12.00	12.00	0.00
11,200.0	85.48	349.00	10,896.5	-400.2	-437.9	-374.4	12.00	12.00	0.00
11,225.0	88.48	349.00	10,897.8	-375.7	-442.7	-349.6	12.00	12.00	0.00
11,237.6	90.00	349.00	10,898.0	-363.3	-445.1	-337.1	12.00	12.00	0.00
11,300.0	90.00	350.87	10,898.0	-301.9	-456.0	-275.2	3.00	0.00	3.00
11,400.0	90.00	353.87	10,898.0	-202.8	-469.3	-175.5	3.00	0.00	3.00
11,500.0	90.00	356.87	10,898.0	-103.1	-477.3	-75.5	3.00	0.00	3.00
11,590.2	90.00	359.58	10,898.0	-13.0	-480.1	14.6	3.00	0.00	3.00
11,600.0	90.00	359.58	10,898.0	-3.2	-480.2	24.4	0.00	0.00	0.00
11,700.0	90.00	359.58	10,898.0	96.8	-481.0	124.3	0.00	0.00	0.00
11,800.0	90.00	359.58	10,898.0	196.8	-481.7	224.2	0.00	0.00	0.00
11,900.0	90.00	359.58	10,898.0	296.8	-482.4	324.0	0.00	0.00	0.00
12,000.0	90.00	359.58	10,898.0	396.8	-483.2	423.9	0.00	0.00	0.00
12,100.0	90.00	359.58	10,898.0	496.8	-483.9	523.8	0.00	0.00	0.00
12,200.0	90.00	359.58	10,898.0	596.8	-484.7	623.7	0.00	0.00	0.00
12,300.0	90.00	359.58	10,898.0	696.8	-485.4	723.5	0.00	0.00	0.00
12,400.0	90.00	359.58	10,898.0	796.8	-486.1	823.4	0.00	0.00	0.00
12,500.0	90.00	359.58	10,898.0	896.8	-486.9	923.3	0.00	0.00	0.00
12,600.0	90.00	359.58	10,898.0	996.8	-487.6	1,023.2	0.00	0.00	0.00
12,700.0	90.00	359.58	10,898.0	1,096.8	-488.3	1,123.0	0.00	0.00	0.00
12,800.0	90.00	359.58	10,898.0	1,196.8	-489.1	1,222.9	0.00	0.00	0.00
12,900.0	90.00	359.58	10,898.0	1,296.8	-489.8	1,322.8	0.00	0.00	0.00
13,000.0	90.00	359.58	10,898.0	1,396.8	-490.6	1,422.7	0.00	0.00	0.00
13,100.0	90.00	359.58	10,898.0	1,496.8	-491.3	1,522.5	0.00	0.00	0.00
13,200.0	90.00	359.58	10,898.0	1,596.8	-492.0	1,622.4	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3485.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3485.0usft
Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#502H	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)
13,300.0	90.00	359.58	10,898.0	1,696.8	-492.8	1,722.3	0.00	0.00	0.00
13,400.0	90.00	359.58	10,898.0	1,796.8	-493.5	1,822.2	0.00	0.00	0.00
13,500.0	90.00	359.58	10,898.0	1,896.8	-494.3	1,922.0	0.00	0.00	0.00
13,600.0	90.00	359.58	10,898.0	1,996.8	-495.0	2,021.9	0.00	0.00	0.00
13,700.0	90.00	359.58	10,898.0	2,096.8	-495.7	2,121.8	0.00	0.00	0.00
13,800.0	90.00	359.58	10,898.0	2,196.7	-496.5	2,221.7	0.00	0.00	0.00
13,900.0	90.00	359.58	10,898.0	2,296.7	-497.2	2,321.5	0.00	0.00	0.00
14,000.0	90.00	359.58	10,898.0	2,396.7	-498.0	2,421.4	0.00	0.00	0.00
14,100.0	90.00	359.58	10,898.0	2,496.7	-498.7	2,521.3	0.00	0.00	0.00
14,200.0	90.00	359.58	10,898.0	2,596.7	-499.4	2,621.2	0.00	0.00	0.00
14,300.0	90.00	359.58	10,898.0	2,696.7	-500.2	2,721.0	0.00	0.00	0.00
14,400.0	90.00	359.58	10,898.0	2,796.7	-500.9	2,820.9	0.00	0.00	0.00
14,500.0	90.00	359.58	10,898.0	2,896.7	-501.7	2,920.8	0.00	0.00	0.00
14,600.0	90.00	359.58	10,898.0	2,996.7	-502.4	3,020.6	0.00	0.00	0.00
14,700.0	90.00	359.58	10,898.0	3,096.7	-503.1	3,120.5	0.00	0.00	0.00
14,800.0	90.00	359.58	10,898.0	3,196.7	-503.9	3,220.4	0.00	0.00	0.00
14,900.0	90.00	359.58	10,898.0	3,296.7	-504.6	3,320.3	0.00	0.00	0.00
15,000.0	90.00	359.58	10,898.0	3,396.7	-505.4	3,420.1	0.00	0.00	0.00
15,100.0	90.00	359.58	10,898.0	3,496.7	-506.1	3,520.0	0.00	0.00	0.00
15,200.0	90.00	359.58	10,898.0	3,596.7	-506.8	3,619.9	0.00	0.00	0.00
15,300.0	90.00	359.58	10,898.0	3,696.7	-507.6	3,719.8	0.00	0.00	0.00
15,400.0	90.00	359.58	10,898.0	3,796.7	-508.3	3,819.6	0.00	0.00	0.00
15,500.0	90.00	359.58	10,898.0	3,896.7	-509.0	3,919.5	0.00	0.00	0.00
15,600.0	90.00	359.58	10,898.0	3,996.7	-509.8	4,019.4	0.00	0.00	0.00
15,700.0	90.00	359.58	10,898.0	4,096.7	-510.5	4,119.3	0.00	0.00	0.00
15,800.0	90.00	359.58	10,898.0	4,196.7	-511.3	4,219.1	0.00	0.00	0.00
15,900.0	90.00	359.58	10,898.0	4,296.7	-512.0	4,319.0	0.00	0.00	0.00
16,000.0	90.00	359.58	10,898.0	4,396.7	-512.7	4,418.9	0.00	0.00	0.00
16,100.0	90.00	359.58	10,898.0	4,496.7	-513.5	4,518.8	0.00	0.00	0.00
16,200.0	90.00	359.58	10,898.0	4,596.7	-514.2	4,618.6	0.00	0.00	0.00
16,300.0	90.00	359.58	10,898.0	4,696.7	-515.0	4,718.5	0.00	0.00	0.00
16,400.0	90.00	359.58	10,898.0	4,796.7	-515.7	4,818.4	0.00	0.00	0.00
16,500.0	90.00	359.58	10,898.0	4,896.7	-516.4	4,918.3	0.00	0.00	0.00
16,600.0	90.00	359.58	10,898.0	4,996.7	-517.2	5,018.1	0.00	0.00	0.00
16,700.0	90.00	359.58	10,898.0	5,096.7	-517.9	5,118.0	0.00	0.00	0.00
16,800.0	90.00	359.58	10,898.0	5,196.7	-518.7	5,217.9	0.00	0.00	0.00
16,900.0	90.00	359.58	10,898.0	5,296.7	-519.4	5,317.8	0.00	0.00	0.00
17,000.0	90.00	359.58	10,898.0	5,396.7	-520.1	5,417.6	0.00	0.00	0.00
17,100.0	90.00	359.58	10,898.0	5,496.7	-520.9	5,517.5	0.00	0.00	0.00
17,200.0	90.00	359.58	10,898.0	5,596.7	-521.6	5,617.4	0.00	0.00	0.00
17,300.0	90.00	359.58	10,898.0	5,696.7	-522.4	5,717.3	0.00	0.00	0.00
17,400.0	90.00	359.58	10,898.0	5,796.7	-523.1	5,817.1	0.00	0.00	0.00
17,500.0	90.00	359.58	10,898.0	5,896.6	-523.8	5,917.0	0.00	0.00	0.00
17,600.0	90.00	359.58	10,898.0	5,996.6	-524.6	6,016.9	0.00	0.00	0.00
17,700.0	90.00	359.58	10,898.0	6,096.6	-525.3	6,116.8	0.00	0.00	0.00
17,800.0	90.00	359.58	10,898.0	6,196.6	-526.1	6,216.6	0.00	0.00	0.00
17,900.0	90.00	359.58	10,898.0	6,296.6	-526.8	6,316.5	0.00	0.00	0.00
18,000.0	90.00	359.58	10,898.0	6,396.6	-527.5	6,416.4	0.00	0.00	0.00
18,100.0	90.00	359.58	10,898.0	6,496.6	-528.3	6,516.3	0.00	0.00	0.00
18,200.0	90.00	359.58	10,898.0	6,596.6	-529.0	6,616.1	0.00	0.00	0.00
18,300.0	90.00	359.58	10,898.0	6,696.6	-529.7	6,716.0	0.00	0.00	0.00
18,400.0	90.00	359.58	10,898.0	6,796.6	-530.5	6,815.9	0.00	0.00	0.00
18,500.0	90.00	359.58	10,898.0	6,896.6	-531.2	6,915.8	0.00	0.00	0.00
18,600.0	90.00	359.58	10,898.0	6,996.6	-532.0	7,015.6	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3485.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3485.0usft
Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#502H	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)	
18,700.0	90.00	359.58	10,898.0	7,096.6	-532.7	7,115.5	0.00	0.00	0.00	
18,800.0	90.00	359.58	10,898.0	7,196.6	-533.4	7,215.4	0.00	0.00	0.00	
18,900.0	90.00	359.58	10,898.0	7,296.6	-534.2	7,315.3	0.00	0.00	0.00	
19,000.0	90.00	359.58	10,898.0	7,396.6	-534.9	7,415.1	0.00	0.00	0.00	
19,100.0	90.00	359.58	10,898.0	7,496.6	-535.7	7,515.0	0.00	0.00	0.00	
19,200.0	90.00	359.58	10,898.0	7,596.6	-536.4	7,614.9	0.00	0.00	0.00	
19,300.0	90.00	359.58	10,898.0	7,696.6	-537.1	7,714.7	0.00	0.00	0.00	
19,400.0	90.00	359.58	10,898.0	7,796.6	-537.9	7,814.6	0.00	0.00	0.00	
19,500.0	90.00	359.58	10,898.0	7,896.6	-538.6	7,914.5	0.00	0.00	0.00	
19,600.0	90.00	359.58	10,898.0	7,996.6	-539.4	8,014.4	0.00	0.00	0.00	
19,700.0	90.00	359.58	10,898.0	8,096.6	-540.1	8,114.2	0.00	0.00	0.00	
19,800.0	90.00	359.58	10,898.0	8,196.6	-540.8	8,214.1	0.00	0.00	0.00	
19,900.0	90.00	359.58	10,898.0	8,296.6	-541.6	8,314.0	0.00	0.00	0.00	
20,000.0	90.00	359.58	10,898.0	8,396.6	-542.3	8,413.9	0.00	0.00	0.00	
20,100.0	90.00	359.58	10,898.0	8,496.6	-543.1	8,513.7	0.00	0.00	0.00	
20,200.0	90.00	359.58	10,898.0	8,596.6	-543.8	8,613.6	0.00	0.00	0.00	
20,300.0	90.00	359.58	10,898.0	8,696.6	-544.5	8,713.5	0.00	0.00	0.00	
20,400.0	90.00	359.58	10,898.0	8,796.6	-545.3	8,813.4	0.00	0.00	0.00	
20,500.0	90.00	359.58	10,898.0	8,896.6	-546.0	8,913.2	0.00	0.00	0.00	
20,600.0	90.00	359.58	10,898.0	8,996.6	-546.8	9,013.1	0.00	0.00	0.00	
20,700.0	90.00	359.58	10,898.0	9,096.6	-547.5	9,113.0	0.00	0.00	0.00	
20,800.0	90.00	359.58	10,898.0	9,196.6	-548.2	9,212.9	0.00	0.00	0.00	
20,900.0	90.00	359.58	10,898.0	9,296.6	-549.0	9,312.7	0.00	0.00	0.00	
21,000.0	90.00	359.58	10,898.0	9,396.6	-549.7	9,412.6	0.00	0.00	0.00	
21,100.0	90.00	359.58	10,898.0	9,496.6	-550.4	9,512.5	0.00	0.00	0.00	
21,174.5	90.00	359.58	10,898.0	9,571.0	-551.0	9,586.8	0.00	0.00	0.00	
PBHL (Hearns 34 State Com #502H)										

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	10,420.5	-832.0	-354.0	425,334.00	779,335.00	32° 10' 1.140 N	103° 33' 51.058 W	
PBHL (Hearns 34 State - plan hits target center - Point	0.00	0.00	10,898.0	9,571.0	-551.0	435,737.00	779,138.00	32° 11' 44.094 N	103° 33' 52.485 W	
FTP (Hearns 34 State C - plan misses target center by 184.2usft at 10900.0usft MD (10783.5 TVD, -867.8 N, -385.9 E) - Point	0.00	0.00	10,898.0	-782.0	-474.0	425,384.00	779,215.00	32° 10' 1.643 N	103° 33' 52.450 W	