



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#504H

OH

Plan: Plan #0.2

Standard Planning Report

02 October, 2019



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3435.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3435.0usft
Site:	Gem 36 State Corn	North Reference:	Grid
Well:	#504H	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:	Gem 36 State Corn		
Site Position:		Northing:	393,686.00 usft
From:	Map	Easting:	759,213.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 4' 49.331 N
		Longitude:	103° 37' 47.552 W
		Grid Convergence:	0.37°

Well:	#504H					
Well Position	+N-S	4,811.0 usft	Northing:	398,497.00 usft	Latitude:	32° 5' 36.912 N
	+E-W	410.0 usft	Easting:	759,623.00 usft	Longitude:	103° 37' 42.421 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,410.0 usft

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	9/18/2019	6.73	59.80	47,623.38363617

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	188.13

Plan Survey Tool Program		Date	10/2/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	15,812.3	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	
	1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
	1,234.0	4.68	291.84	1,233.8	3.6	-8.9	2.00	2.00	0.00	291.84	
	7,390.0	4.68	291.84	7,389.2	190.4	-475.1	0.00	0.00	0.00	0.00	
	7,624.0	0.00	0.00	7,603.0	194.0	-484.0	2.00	-2.00	0.00	180.00	
	10,413.5	0.00	0.00	10,392.5	194.0	-484.0	0.00	0.00	0.00	0.00	KOP (Gem 36 State C
	11,163.5	90.00	180.51	10,870.0	-283.4	-488.3	12.00	12.00	-23.93	180.51	
	15,812.3	90.00	180.51	10,870.0	-4,832.0	-530.0	0.00	0.00	0.00	0.00	PBHL (Gem 36 State



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3435.0usft
Site:	Gem 38 State Corn	North Reference:	Grid
Well:	#504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	NI-S (usft)	EI-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	2.00	291.84	1,100.0	0.6	-1.6	-0.5	2.00	2.00	0.00
1,200.0	4.00	291.84	1,199.8	2.6	-6.5	-1.9	2.00	2.00	0.00
1,234.0	4.68	291.84	1,233.8	3.6	-8.9	-2.6	2.00	2.00	0.00
1,300.0	4.68	291.84	1,299.5	5.6	-13.9	-4.0	0.00	0.00	0.00
1,400.0	4.68	291.84	1,399.2	8.6	-21.4	-6.3	0.00	0.00	0.00
1,500.0	4.68	291.84	1,498.9	11.6	-29.0	-8.5	0.00	0.00	0.00
1,600.0	4.68	291.84	1,598.5	14.7	-36.6	-10.7	0.00	0.00	0.00
1,700.0	4.68	291.84	1,698.2	17.7	-44.2	-12.9	0.00	0.00	0.00
1,800.0	4.68	291.84	1,797.9	20.7	-51.7	-15.1	0.00	0.00	0.00
1,900.0	4.68	291.84	1,897.5	23.8	-59.3	-17.3	0.00	0.00	0.00
2,000.0	4.68	291.84	1,997.2	26.8	-66.9	-19.5	0.00	0.00	0.00
2,100.0	4.68	291.84	2,096.9	29.8	-74.5	-21.7	0.00	0.00	0.00
2,200.0	4.68	291.84	2,196.5	32.9	-82.0	-23.9	0.00	0.00	0.00
2,300.0	4.68	291.84	2,296.2	35.9	-89.6	-26.1	0.00	0.00	0.00
2,400.0	4.68	291.84	2,395.9	39.0	-97.2	-28.3	0.00	0.00	0.00
2,500.0	4.68	291.84	2,495.5	42.0	-104.8	-30.6	0.00	0.00	0.00
2,600.0	4.68	291.84	2,595.2	45.0	-112.3	-32.8	0.00	0.00	0.00
2,700.0	4.68	291.84	2,694.9	48.1	-119.9	-35.0	0.00	0.00	0.00
2,800.0	4.68	291.84	2,794.5	51.1	-127.5	-37.2	0.00	0.00	0.00
2,900.0	4.68	291.84	2,894.2	54.1	-135.1	-39.4	0.00	0.00	0.00
3,000.0	4.68	291.84	2,993.9	57.2	-142.6	-41.6	0.00	0.00	0.00
3,100.0	4.68	291.84	3,093.5	60.2	-150.2	-43.8	0.00	0.00	0.00
3,200.0	4.68	291.84	3,193.2	63.2	-157.8	-46.0	0.00	0.00	0.00
3,300.0	4.68	291.84	3,292.9	66.3	-165.3	-48.2	0.00	0.00	0.00
3,400.0	4.68	291.84	3,392.5	69.3	-172.9	-50.4	0.00	0.00	0.00
3,500.0	4.68	291.84	3,492.2	72.3	-180.5	-52.6	0.00	0.00	0.00
3,600.0	4.68	291.84	3,591.8	75.4	-188.1	-54.9	0.00	0.00	0.00
3,700.0	4.68	291.84	3,691.5	78.4	-195.6	-57.1	0.00	0.00	0.00
3,800.0	4.68	291.84	3,791.2	81.5	-203.2	-59.3	0.00	0.00	0.00
3,900.0	4.68	291.84	3,890.8	84.5	-210.8	-61.5	0.00	0.00	0.00
4,000.0	4.68	291.84	3,990.5	87.5	-218.4	-63.7	0.00	0.00	0.00
4,100.0	4.68	291.84	4,090.2	90.6	-225.9	-65.9	0.00	0.00	0.00
4,200.0	4.68	291.84	4,189.8	93.6	-233.5	-68.1	0.00	0.00	0.00
4,300.0	4.68	291.84	4,289.5	96.6	-241.1	-70.3	0.00	0.00	0.00
4,400.0	4.68	291.84	4,389.2	99.7	-248.7	-72.5	0.00	0.00	0.00
4,500.0	4.68	291.84	4,488.8	102.7	-256.2	-74.7	0.00	0.00	0.00
4,600.0	4.68	291.84	4,588.5	105.7	-263.8	-77.0	0.00	0.00	0.00
4,700.0	4.68	291.84	4,688.2	108.8	-271.4	-79.2	0.00	0.00	0.00
4,800.0	4.68	291.84	4,787.8	111.8	-279.0	-81.4	0.00	0.00	0.00
4,900.0	4.68	291.84	4,887.5	114.9	-286.5	-83.6	0.00	0.00	0.00
5,000.0	4.68	291.84	4,987.2	117.9	-294.1	-85.8	0.00	0.00	0.00
5,100.0	4.68	291.84	5,086.8	120.9	-301.7	-88.0	0.00	0.00	0.00
5,200.0	4.68	291.84	5,186.5	124.0	-309.3	-90.2	0.00	0.00	0.00



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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	4.68	291.84	5,286.2	127.0	-316.8	-92.4	0.00	0.00	0.00	
5,400.0	4.68	291.84	5,385.8	130.0	-324.4	-94.6	0.00	0.00	0.00	
5,500.0	4.68	291.84	5,485.5	133.1	-332.0	-96.8	0.00	0.00	0.00	
5,600.0	4.68	291.84	5,585.2	136.1	-339.6	-99.0	0.00	0.00	0.00	
5,700.0	4.68	291.84	5,684.8	139.1	-347.1	-101.3	0.00	0.00	0.00	
5,800.0	4.68	291.84	5,784.5	142.2	-354.7	-103.5	0.00	0.00	0.00	
5,900.0	4.68	291.84	5,884.2	145.2	-362.3	-105.7	0.00	0.00	0.00	
6,000.0	4.68	291.84	5,983.8	148.2	-369.8	-107.9	0.00	0.00	0.00	
6,100.0	4.68	291.84	6,083.5	151.3	-377.4	-110.1	0.00	0.00	0.00	
6,200.0	4.68	291.84	6,183.2	154.3	-385.0	-112.3	0.00	0.00	0.00	
6,300.0	4.68	291.84	6,282.8	157.4	-392.6	-114.5	0.00	0.00	0.00	
6,400.0	4.68	291.84	6,382.5	160.4	-400.1	-116.7	0.00	0.00	0.00	
6,500.0	4.68	291.84	6,482.2	163.4	-407.7	-118.9	0.00	0.00	0.00	
6,600.0	4.68	291.84	6,581.8	166.5	-415.3	-121.1	0.00	0.00	0.00	
6,700.0	4.68	291.84	6,681.5	169.5	-422.8	-123.3	0.00	0.00	0.00	
6,800.0	4.68	291.84	6,781.2	172.5	-430.4	-125.6	0.00	0.00	0.00	
6,900.0	4.68	291.84	6,880.8	175.6	-438.0	-127.8	0.00	0.00	0.00	
7,000.0	4.68	291.84	6,980.5	178.6	-445.6	-130.0	0.00	0.00	0.00	
7,100.0	4.68	291.84	7,080.2	181.6	-453.2	-132.2	0.00	0.00	0.00	
7,200.0	4.68	291.84	7,179.8	184.7	-460.7	-134.4	0.00	0.00	0.00	
7,300.0	4.68	291.84	7,279.5	187.7	-468.3	-136.6	0.00	0.00	0.00	
7,390.0	4.68	291.84	7,389.2	190.4	-475.1	-138.8	0.00	0.00	0.00	
7,400.0	4.48	291.84	7,379.2	190.7	-475.9	-138.8	2.00	-2.00	0.00	
7,500.0	2.48	291.84	7,479.0	193.0	-481.5	-140.4	2.00	-2.00	0.00	
7,600.0	0.48	291.84	7,578.0	194.0	-483.9	-141.1	2.00	-2.00	0.00	
7,624.0	0.00	0.00	7,603.0	194.0	-484.0	-141.2	2.00	-2.00	0.00	
7,700.0	0.00	0.00	7,679.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,779.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,879.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,979.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,079.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,179.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,279.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,379.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,479.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,579.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,679.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,779.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,879.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,979.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,079.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,179.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,279.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,379.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,479.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,579.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,679.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,779.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,879.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,979.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,079.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,179.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,279.0	194.0	-484.0	-141.2	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,379.0	194.0	-484.0	-141.2	0.00	0.00	0.00	



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3435.0usft
Site:	Gem 38 State Com	North Reference:	Grid
Well:	#504H	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)
10,413.5	0.00	0.00	10,392.5	194.0	-484.0	-141.2	0.00	0.00	0.00
10,425.0	1.37	180.51	10,403.9	193.9	-484.0	-141.0	12.00	12.00	0.00
10,450.0	4.37	180.51	10,428.9	192.6	-484.0	-139.8	12.00	12.00	0.00
10,475.0	7.37	180.51	10,453.8	190.1	-484.0	-137.2	12.00	12.00	0.00
10,500.0	10.37	180.51	10,478.5	186.2	-484.1	-133.4	12.00	12.00	0.00
10,525.0	13.37	180.51	10,502.9	181.1	-484.1	-128.3	12.00	12.00	0.00
10,550.0	16.37	180.51	10,527.1	174.6	-484.2	-121.9	12.00	12.00	0.00
10,575.0	19.37	180.51	10,550.9	167.0	-484.2	-114.3	12.00	12.00	0.00
10,600.0	22.37	180.51	10,574.2	158.1	-484.3	-105.4	12.00	12.00	0.00
10,625.0	25.37	180.51	10,597.1	147.9	-484.4	-95.3	12.00	12.00	0.00
10,650.0	28.37	180.51	10,619.4	136.6	-484.5	-84.1	12.00	12.00	0.00
10,675.0	31.37	180.51	10,641.1	124.2	-484.6	-71.7	12.00	12.00	0.00
10,700.0	34.37	180.51	10,662.1	110.6	-484.7	-58.2	12.00	12.00	0.00
10,725.0	37.37	180.51	10,682.3	96.0	-484.9	-43.6	12.00	12.00	0.00
10,750.0	40.37	180.51	10,701.8	80.3	-485.0	-28.0	12.00	12.00	0.00
10,775.0	43.37	180.51	10,720.4	63.6	-485.2	-11.4	12.00	12.00	0.00
10,800.0	46.37	180.51	10,738.1	46.0	-485.3	6.2	12.00	12.00	0.00
10,825.0	49.37	180.51	10,754.9	27.4	-485.5	24.6	12.00	12.00	0.00
10,850.0	52.37	180.51	10,770.7	8.0	-485.7	43.9	12.00	12.00	0.00
10,875.0	55.37	180.51	10,785.4	-12.2	-485.8	64.0	12.00	12.00	0.00
10,900.0	58.37	180.51	10,799.1	-33.1	-486.0	84.8	12.00	12.00	0.00
10,925.0	61.37	180.51	10,811.6	-54.7	-486.2	106.3	12.00	12.00	0.00
10,950.0	64.37	180.51	10,823.0	-77.0	-486.4	128.5	12.00	12.00	0.00
10,975.0	67.37	180.51	10,833.2	-99.8	-486.6	151.2	12.00	12.00	0.00
11,000.0	70.37	180.51	10,842.2	-123.1	-486.8	174.4	12.00	12.00	0.00
11,025.0	73.37	180.51	10,850.0	-146.8	-487.1	198.0	12.00	12.00	0.00
11,050.0	76.37	180.51	10,856.5	-171.0	-487.3	222.1	12.00	12.00	0.00
11,075.0	79.37	180.51	10,861.8	-195.4	-487.5	246.4	12.00	12.00	0.00
11,100.0	82.37	180.51	10,865.7	-220.1	-487.7	270.9	12.00	12.00	0.00
11,125.0	85.37	180.51	10,868.4	-244.9	-487.9	295.7	12.00	12.00	0.00
11,150.0	88.37	180.51	10,869.8	-269.9	-488.2	320.5	12.00	12.00	0.00
11,163.5	90.00	180.51	10,870.0	-283.4	-488.3	334.0	12.00	12.00	0.00
11,200.0	90.00	180.51	10,870.0	-319.9	-488.6	370.3	0.00	0.00	0.00
11,300.0	90.00	180.51	10,870.0	-419.9	-489.5	468.8	0.00	0.00	0.00
11,400.0	90.00	180.51	10,870.0	-519.9	-490.4	569.3	0.00	0.00	0.00
11,500.0	90.00	180.51	10,870.0	-619.9	-491.3	668.8	0.00	0.00	0.00
11,600.0	90.00	180.51	10,870.0	-719.9	-492.2	768.3	0.00	0.00	0.00
11,700.0	90.00	180.51	10,870.0	-819.9	-493.1	867.9	0.00	0.00	0.00
11,800.0	90.00	180.51	10,870.0	-919.9	-494.0	967.4	0.00	0.00	0.00
11,900.0	90.00	180.51	10,870.0	-1,019.9	-494.9	1,066.9	0.00	0.00	0.00
12,000.0	90.00	180.51	10,870.0	-1,119.9	-495.8	1,166.4	0.00	0.00	0.00
12,100.0	90.00	180.51	10,870.0	-1,219.9	-496.7	1,265.9	0.00	0.00	0.00
12,200.0	90.00	180.51	10,870.0	-1,319.9	-497.6	1,365.5	0.00	0.00	0.00
12,300.0	90.00	180.51	10,870.0	-1,419.9	-498.5	1,465.0	0.00	0.00	0.00
12,400.0	90.00	180.51	10,870.0	-1,519.8	-499.4	1,564.5	0.00	0.00	0.00
12,500.0	90.00	180.51	10,870.0	-1,619.8	-500.3	1,664.0	0.00	0.00	0.00
12,600.0	90.00	180.51	10,870.0	-1,719.8	-501.2	1,763.5	0.00	0.00	0.00
12,700.0	90.00	180.51	10,870.0	-1,819.8	-502.1	1,863.1	0.00	0.00	0.00
12,800.0	90.00	180.51	10,870.0	-1,919.8	-503.0	1,962.6	0.00	0.00	0.00
12,900.0	90.00	180.51	10,870.0	-2,019.8	-503.9	2,062.1	0.00	0.00	0.00
13,000.0	90.00	180.51	10,870.0	-2,119.8	-504.8	2,161.6	0.00	0.00	0.00
13,100.0	90.00	180.51	10,870.0	-2,219.8	-505.7	2,261.1	0.00	0.00	0.00
13,200.0	90.00	180.51	10,870.0	-2,319.8	-506.6	2,360.7	0.00	0.00	0.00
13,300.0	90.00	180.51	10,870.0	-2,419.8	-507.5	2,460.2	0.00	0.00	0.00



Planning Report

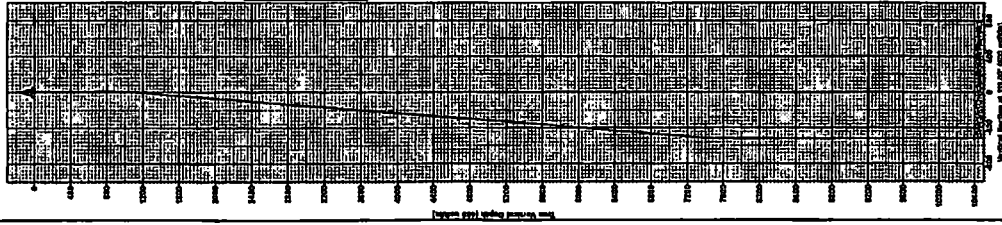
Database:	EDM 5000.15	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3435.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3435.0usft
Site:	Gem 38 State Cor	North Reference:	Grid
Well:	#504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

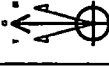
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,400.0	90.00	180.51	10,870.0	-2,519.8	-508.4	2,559.7	0.00	0.00	0.00	
13,500.0	90.00	180.51	10,870.0	-2,619.8	-509.3	2,659.2	0.00	0.00	0.00	
13,600.0	90.00	180.51	10,870.0	-2,719.8	-510.1	2,758.7	0.00	0.00	0.00	
13,700.0	90.00	180.51	10,870.0	-2,819.8	-511.0	2,858.3	0.00	0.00	0.00	
13,800.0	90.00	180.51	10,870.0	-2,919.8	-511.9	2,957.8	0.00	0.00	0.00	
13,900.0	90.00	180.51	10,870.0	-3,019.8	-512.8	3,057.3	0.00	0.00	0.00	
14,000.0	90.00	180.51	10,870.0	-3,119.8	-513.7	3,156.8	0.00	0.00	0.00	
14,100.0	90.00	180.51	10,870.0	-3,219.8	-514.6	3,256.3	0.00	0.00	0.00	
14,200.0	90.00	180.51	10,870.0	-3,319.8	-515.5	3,355.9	0.00	0.00	0.00	
14,300.0	90.00	180.51	10,870.0	-3,419.8	-516.4	3,455.4	0.00	0.00	0.00	
14,400.0	90.00	180.51	10,870.0	-3,519.8	-517.3	3,554.9	0.00	0.00	0.00	
14,500.0	90.00	180.51	10,870.0	-3,619.8	-518.2	3,654.4	0.00	0.00	0.00	
14,600.0	90.00	180.51	10,870.0	-3,719.8	-519.1	3,753.9	0.00	0.00	0.00	
14,700.0	90.00	180.51	10,870.0	-3,819.8	-520.0	3,853.4	0.00	0.00	0.00	
14,800.0	90.00	180.51	10,870.0	-3,919.7	-520.9	3,953.0	0.00	0.00	0.00	
14,900.0	90.00	180.51	10,870.0	-4,019.7	-521.8	4,052.5	0.00	0.00	0.00	
15,000.0	90.00	180.51	10,870.0	-4,119.7	-522.7	4,152.0	0.00	0.00	0.00	
15,100.0	90.00	180.51	10,870.0	-4,219.7	-523.6	4,251.5	0.00	0.00	0.00	
15,200.0	90.00	180.51	10,870.0	-4,319.7	-524.5	4,351.0	0.00	0.00	0.00	
15,300.0	90.00	180.51	10,870.0	-4,419.7	-525.4	4,450.6	0.00	0.00	0.00	
15,400.0	90.00	180.51	10,870.0	-4,519.7	-526.3	4,550.1	0.00	0.00	0.00	
15,500.0	90.00	180.51	10,870.0	-4,619.7	-527.2	4,649.6	0.00	0.00	0.00	
15,600.0	90.00	180.51	10,870.0	-4,719.7	-528.1	4,749.1	0.00	0.00	0.00	
15,700.0	90.00	180.51	10,870.0	-4,819.7	-529.0	4,848.6	0.00	0.00	0.00	
15,800.0	90.00	180.51	10,870.0	-4,919.7	-529.9	4,948.2	0.00	0.00	0.00	
15,812.3	90.00	180.51	10,870.0	-4,932.0	-530.0	4,960.4	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Gem 38 State Cor - plan hits target center - Point)	0.00	0.00	10,392.5	194.0	-484.0	398,691.00	759,139.00	32° 5' 38.863 N	103° 37' 48.033 W
PBHL (Gem 38 State Cc - plan hits target center - Point)	0.00	0.00	10,870.0	-4,932.0	-530.0	393,565.00	759,093.00	32° 4' 48.141 N	103° 37' 48.958 W
FTP (Gem 38 State Cor - plan misses target center by 183.4usft at 10815.7usft MD (10748.8 TVD, 34.4 N, -485.4 E) - Point)	0.00	0.00	10,870.0	144.0	-484.0	398,641.00	759,139.00	32° 5' 38.368 N	103° 37' 48.036 W



Lea County, NM (NAD 83 NME)
Gem 36 State Com #504H
Plan #0.2





 Azimuth to Gold North
 True North: 337°
 Magnetic North: 337°
 Magnetic Declination: 0°
 True North: 337°
 Magnetic North: 337°
 Magnetic Declination: 0°
 Model: 100000000

To convert a Magnetic Direction to a Grid Direction, Add 0.3°
 To convert a Magnetic Direction to a True Direction, Add 0.3° East
 To convert a True Direction to a Grid Direction, Subtract 0.3°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)
 Grid/Guide System: US State Plane 1983
 Zone: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System: Universal Transverse Mercator

WELL DETAILS: #504H
 Elevation: 5415.0
 Depth: 7052.0
 Location: 32° 0' 34.71" N 107° 27' 52.61" W

ELEVATION DATA									
Loc	AD	Sec	AS	TVD	AS	True	Vertical	Target	Annotation
1	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	
3	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	
4	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	
5	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	
6	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	
7	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	
8	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	

WELLBORE TREATMENT DATA (WELL RECORDS)									
Casing Details									
No casing data is available									
Wellbore Treatment Details									
Loc	AS	TVD	AS	True	Vertical	Target	Annotation	AS	AS
1	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	0.0
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	0.0
3	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	0.0
4	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	0.0
5	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	0.0
6	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	0.0
7	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	0.0
8	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	0.0

