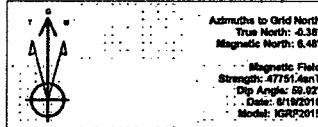




Lea County, NM (NAD 83 NME)

Gem 36 State Com #201H

Plan #0.2



To convert a Magnetic Direction to a Grid Direction, Add 8.48°
To convert a Magnetic Direction to a True Direction, Add 6.90° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Elevation: GPS 1989
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #201H

KB = 25 @ 3481.0 uft 3436.0
Northing 398047.00 Easting 782062.00 Latitude 32° 5' 32.300 N Longitude 103° 37' 14.104 W

SECTION DETAILS

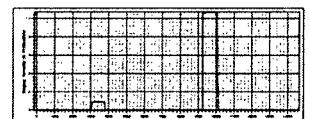
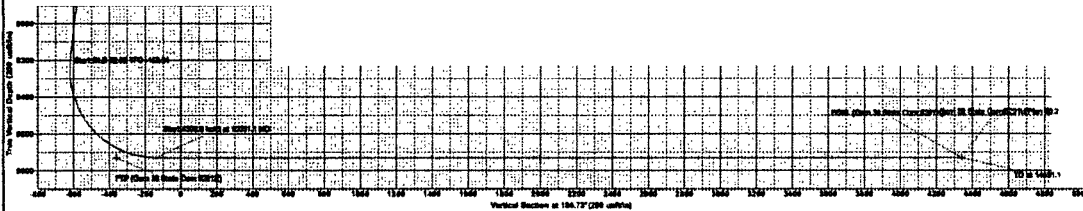
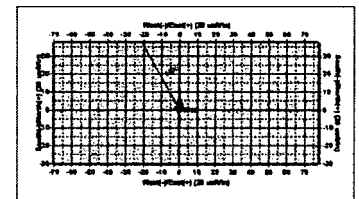
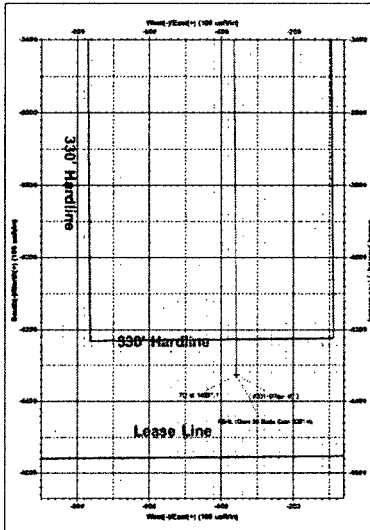
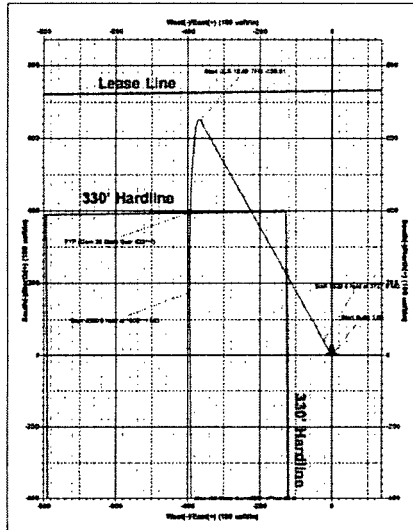
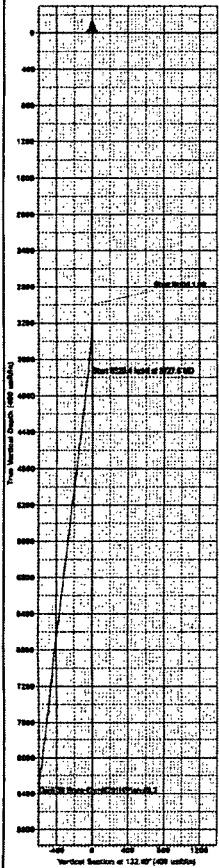
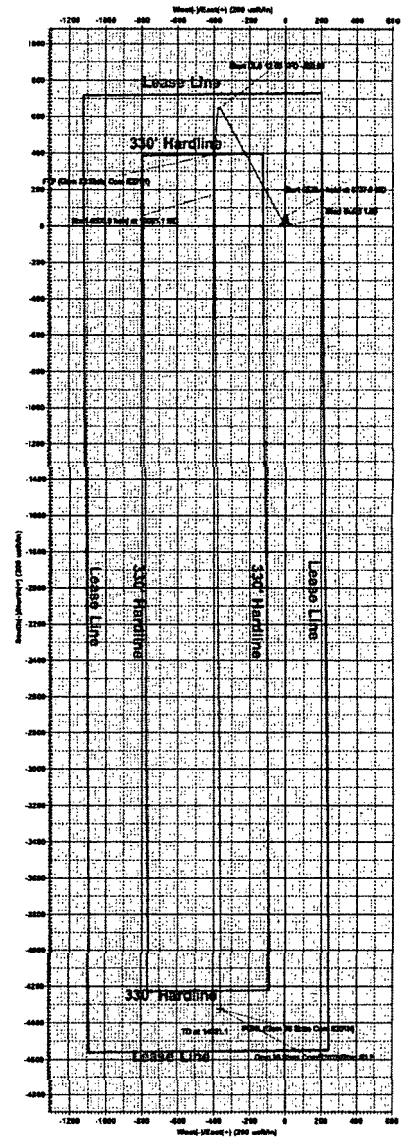
Sec	ISO	Inc	Adj	TVD	+W-B	+E-W	Dleg	TFace	VFact	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2960.0	0.00	0.00	2960.0	0.0	0.0	0.00	0.00	0.0		
3	3727.6	7.23	330.64	3725.7	40.2	-22.0	1.00	330.64	-38.2		
4	8246.6	7.23	330.64	8241.8	645.8	-365.4	0.00	0.00	-417.3		
5	14651.1	80.00	179.54	9731.0	174.9	-354.2	0.00	-150.91	-141.7		
6	14651.1	80.00	179.54	9731.0	-4325.0	-358.0	0.00	0.00	4329.0		PSHL (Gem 36 State Com #201H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+W-B	+E-W	Northing	Easting
PSHL (Gem 36 State Com #201H)	9731.0	-4325.0	-358.0	398722.00	781704.00
FTF (Gem 36 State Com #201H)	9731.0	354.0	-358.0	398441.00	781865.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#201H

OH

Plan: Plan #0.2

Standard Planning Report

25 June, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #201H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25 @ 3461.0usft
MD Reference: KB = 25 @ 3461.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 Com			
Site Position:		Northing:	393,686.00 usft	Latitude: 32° 4' 49.331 N
From:	Map	Easting:	759,213.00 usft	Longitude: 103° 37' 47.552 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence: 0.37°

Well	#201H			
Well Position	+N/-S	4,361.0 usft	Northing:	398,047.00 usft
	+E/-W	2,849.0 usft	Easting:	762,062.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	
			Latitude:	32° 5' 32.300 N
			Longitude:	103° 37' 14.104 W
			Ground Level:	3,436.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	6/19/2018	6.86	59.92	47,751.36450451

Design	Plan #0.2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	184.73

Plan Survey Tool Program	Date 6/25/2018			
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1 0.0	14,551.1	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	
3,727.6	7.28	330.64	3,725.7	40.2	-22.6	1.00	1.00	0.00	330.64	
9,248.0	7.28	330.64	9,201.6	649.6	-365.4	0.00	0.00	0.00	0.00	
10,051.1	90.00	179.54	9,731.0	174.9	-394.2	12.00	10.30	-18.82	-150.91	
14,551.1	90.00	179.54	9,731.0	-4,325.0	-358.0	0.00	0.00	0.00	0.00	PBHL (Gem 36 State)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Gem 36 State Com
 Well: #201H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3461.0usft
 MD Reference: KB = 25 @ 3461.0usft
 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	1.00	330.64	3,100.0	0.8	-0.4	-0.7	1.00	1.00	0.00
3,200.0	2.00	330.64	3,200.0	3.0	-1.7	-2.9	1.00	1.00	0.00
3,300.0	3.00	330.64	3,299.9	6.8	-3.8	-6.5	1.00	1.00	0.00
3,400.0	4.00	330.64	3,399.7	12.2	-6.8	-11.6	1.00	1.00	0.00
3,500.0	5.00	330.64	3,499.4	19.0	-10.7	-18.1	1.00	1.00	0.00
3,600.0	6.00	330.64	3,598.9	27.4	-15.4	-26.0	1.00	1.00	0.00
3,700.0	7.00	330.64	3,698.3	37.2	-20.9	-35.4	1.00	1.00	0.00
3,727.6	7.28	330.64	3,725.7	40.2	-22.6	-38.2	1.00	1.00	0.00
3,800.0	7.28	330.64	3,797.5	48.2	-27.1	-45.8	0.00	0.00	0.00
3,900.0	7.28	330.64	3,896.7	59.2	-33.3	-56.3	0.00	0.00	0.00
4,000.0	7.28	330.64	3,995.9	70.3	-39.5	-66.8	0.00	0.00	0.00
4,100.0	7.28	330.64	4,095.0	81.3	-45.7	-77.3	0.00	0.00	0.00
4,200.0	7.28	330.64	4,194.2	92.4	-52.0	-87.8	0.00	0.00	0.00
4,300.0	7.28	330.64	4,293.4	103.4	-58.2	-98.3	0.00	0.00	0.00
4,400.0	7.28	330.64	4,392.6	114.4	-64.4	-108.7	0.00	0.00	0.00
4,500.0	7.28	330.64	4,491.8	125.5	-70.6	-119.2	0.00	0.00	0.00
4,600.0	7.28	330.64	4,591.0	136.5	-76.8	-129.7	0.00	0.00	0.00
4,700.0	7.28	330.64	4,690.2	147.6	-83.0	-140.2	0.00	0.00	0.00
4,800.0	7.28	330.64	4,789.4	158.6	-89.2	-150.7	0.00	0.00	0.00
4,900.0	7.28	330.64	4,888.6	169.6	-95.4	-161.2	0.00	0.00	0.00
5,000.0	7.28	330.64	4,987.8	180.7	-101.6	-171.7	0.00	0.00	0.00
5,100.0	7.28	330.64	5,087.0	191.7	-107.8	-182.2	0.00	0.00	0.00
5,200.0	7.28	330.64	5,186.2	202.8	-114.0	-192.7	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Gem 36 State Corn
 Well: #201H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3461.0usft
 MD Reference: KB = 25 @ 3461.0usft
 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)
5,300.0	7.28	330.64	5,285.4	213.8	-120.3	-203.1	0.00	0.00	0.00
5,400.0	7.28	330.64	5,384.6	224.8	-126.5	-213.6	0.00	0.00	0.00
5,500.0	7.28	330.64	5,483.8	235.9	-132.7	-224.1	0.00	0.00	0.00
5,600.0	7.28	330.64	5,583.0	246.9	-138.9	-234.6	0.00	0.00	0.00
5,700.0	7.28	330.64	5,682.2	257.9	-145.1	-245.1	0.00	0.00	0.00
5,800.0	7.28	330.64	5,781.4	269.0	-151.3	-255.6	0.00	0.00	0.00
5,900.0	7.28	330.64	5,880.6	280.0	-157.5	-266.1	0.00	0.00	0.00
6,000.0	7.28	330.64	5,979.7	291.1	-163.7	-276.6	0.00	0.00	0.00
6,100.0	7.28	330.64	6,078.9	302.1	-169.9	-287.1	0.00	0.00	0.00
6,200.0	7.28	330.64	6,178.1	313.1	-176.1	-297.5	0.00	0.00	0.00
6,300.0	7.28	330.64	6,277.3	324.2	-182.3	-308.0	0.00	0.00	0.00
6,400.0	7.28	330.64	6,376.5	335.2	-188.6	-318.5	0.00	0.00	0.00
6,500.0	7.28	330.64	6,475.7	346.3	-194.8	-329.0	0.00	0.00	0.00
6,600.0	7.28	330.64	6,574.9	357.3	-201.0	-339.5	0.00	0.00	0.00
6,700.0	7.28	330.64	6,674.1	368.3	-207.2	-350.0	0.00	0.00	0.00
6,800.0	7.28	330.64	6,773.3	379.4	-213.4	-360.5	0.00	0.00	0.00
6,900.0	7.28	330.64	6,872.5	390.4	-219.6	-371.0	0.00	0.00	0.00
7,000.0	7.28	330.64	6,971.7	401.5	-225.8	-381.5	0.00	0.00	0.00
7,100.0	7.28	330.64	7,070.9	412.5	-232.0	-392.0	0.00	0.00	0.00
7,200.0	7.28	330.64	7,170.1	423.5	-238.2	-402.4	0.00	0.00	0.00
7,300.0	7.28	330.64	7,269.3	434.6	-244.4	-412.9	0.00	0.00	0.00
7,400.0	7.28	330.64	7,368.5	445.6	-250.6	-423.4	0.00	0.00	0.00
7,500.0	7.28	330.64	7,467.7	456.7	-256.9	-433.9	0.00	0.00	0.00
7,600.0	7.28	330.64	7,566.9	467.7	-263.1	-444.4	0.00	0.00	0.00
7,700.0	7.28	330.64	7,666.1	478.7	-269.3	-454.9	0.00	0.00	0.00
7,800.0	7.28	330.64	7,765.2	489.8	-275.5	-465.4	0.00	0.00	0.00
7,900.0	7.28	330.64	7,864.4	500.8	-281.7	-475.9	0.00	0.00	0.00
8,000.0	7.28	330.64	7,963.6	511.9	-287.9	-486.4	0.00	0.00	0.00
8,100.0	7.28	330.64	8,062.8	522.9	-294.1	-496.8	0.00	0.00	0.00
8,200.0	7.28	330.64	8,162.0	533.9	-300.3	-507.3	0.00	0.00	0.00
8,300.0	7.28	330.64	8,261.2	545.0	-306.5	-517.8	0.00	0.00	0.00
8,400.0	7.28	330.64	8,360.4	556.0	-312.7	-528.3	0.00	0.00	0.00
8,500.0	7.28	330.64	8,459.6	567.0	-318.9	-538.8	0.00	0.00	0.00
8,600.0	7.28	330.64	8,558.8	578.1	-325.2	-549.3	0.00	0.00	0.00
8,700.0	7.28	330.64	8,658.0	589.1	-331.4	-559.8	0.00	0.00	0.00
8,800.0	7.28	330.64	8,757.2	600.2	-337.6	-570.3	0.00	0.00	0.00
8,900.0	7.28	330.64	8,856.4	611.2	-343.8	-580.8	0.00	0.00	0.00
9,000.0	7.28	330.64	8,955.6	622.2	-350.0	-591.3	0.00	0.00	0.00
9,100.0	7.28	330.64	9,054.8	633.3	-356.2	-601.7	0.00	0.00	0.00
9,200.0	7.28	330.64	9,154.0	644.3	-362.4	-612.2	0.00	0.00	0.00
9,248.0	7.28	330.64	9,201.6	649.6	-365.4	-617.3	0.00	0.00	0.00
9,250.0	7.07	329.70	9,203.6	649.8	-365.5	-617.5	12.00	-10.44	-47.41
9,275.0	4.72	311.12	9,228.4	651.8	-367.1	-619.3	12.00	-9.41	-74.31
9,300.0	3.53	271.61	9,253.4	652.5	-368.6	-619.9	12.00	-4.73	-158.05
9,325.0	4.55	230.37	9,278.3	651.9	-370.1	-619.2	12.00	4.07	-164.97
9,350.0	6.85	210.45	9,303.2	650.0	-371.7	-617.1	12.00	9.19	-79.67
9,375.0	9.54	201.07	9,327.9	646.8	-373.2	-613.8	12.00	10.78	-37.53
9,400.0	12.38	195.87	9,352.5	642.3	-374.6	-609.2	12.00	11.34	-20.81
9,425.0	15.28	192.59	9,376.8	636.5	-376.1	-603.3	12.00	11.59	-13.08
9,450.0	18.21	190.35	9,400.7	629.4	-377.5	-596.1	12.00	11.72	-8.97
9,475.0	21.16	188.71	9,424.2	621.1	-378.9	-587.8	12.00	11.80	-6.55
9,500.0	24.12	187.46	9,447.3	611.6	-380.2	-578.1	12.00	11.84	-5.01
9,525.0	27.09	186.47	9,469.8	600.9	-381.6	-567.4	12.00	11.88	-3.97
9,550.0	30.06	185.66	9,491.8	589.0	-382.8	-555.4	12.00	11.90	-3.24



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Gem 36 State Com
 Well: #201H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3461.0usft
 MD Reference: KB = 25 @ 3461.0usft
 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)
9,575.0	33.04	184.98	9,513.1	576.0	-384.0	-542.3	12.00	11.92	-2.70
9,600.0	36.02	184.41	9,533.7	561.8	-385.2	-528.2	12.00	11.93	-2.30
9,625.0	39.01	183.91	9,553.5	546.7	-386.3	-512.9	12.00	11.94	-2.00
9,650.0	41.99	183.47	9,572.5	530.5	-387.3	-496.7	12.00	11.95	-1.75
9,675.0	44.98	183.08	9,590.7	513.3	-388.3	-479.5	12.00	11.95	-1.56
9,700.0	47.97	182.73	9,607.9	495.2	-389.2	-461.4	12.00	11.96	-1.41
9,725.0	50.96	182.41	9,624.1	476.2	-390.1	-442.4	12.00	11.96	-1.28
9,750.0	53.95	182.11	9,639.4	456.4	-390.8	-422.6	12.00	11.96	-1.18
9,775.0	56.94	181.84	9,653.5	435.8	-391.6	-402.0	12.00	11.97	-1.09
9,800.0	59.94	181.59	9,666.6	414.5	-392.2	-380.8	12.00	11.97	-1.02
9,825.0	62.93	181.35	9,678.6	392.6	-392.8	-358.8	12.00	11.97	-0.96
9,850.0	65.92	181.12	9,689.4	370.0	-393.2	-336.3	12.00	11.97	-0.91
9,875.0	68.91	180.90	9,699.0	347.0	-393.6	-313.3	12.00	11.97	-0.87
9,900.0	71.91	180.69	9,707.3	323.4	-394.0	-289.8	12.00	11.97	-0.83
9,925.0	74.90	180.49	9,714.5	299.5	-394.2	-265.9	12.00	11.98	-0.80
9,950.0	77.90	180.30	9,720.4	275.2	-394.4	-241.7	12.00	11.98	-0.78
9,975.0	80.89	180.11	9,725.0	250.6	-394.5	-217.2	12.00	11.98	-0.77
10,000.0	83.88	179.92	9,728.3	225.8	-394.5	-192.5	12.00	11.98	-0.75
10,025.0	86.88	179.73	9,730.3	200.9	-394.4	-167.7	12.00	11.98	-0.74
10,051.1	90.00	179.54	9,731.0	174.9	-394.2	-141.7	12.00	11.98	-0.74
10,100.0	90.00	179.54	9,731.0	125.9	-393.8	-93.0	0.00	0.00	0.00
10,200.0	90.00	179.54	9,731.0	25.9	-393.0	6.6	0.00	0.00	0.00
10,300.0	90.00	179.54	9,731.0	-74.1	-392.2	106.2	0.00	0.00	0.00
10,400.0	90.00	179.54	9,731.0	-174.1	-391.4	205.8	0.00	0.00	0.00
10,500.0	90.00	179.54	9,731.0	-274.1	-390.6	305.4	0.00	0.00	0.00
10,600.0	90.00	179.54	9,731.0	-374.1	-389.8	404.9	0.00	0.00	0.00
10,700.0	90.00	179.54	9,731.0	-474.1	-389.0	504.5	0.00	0.00	0.00
10,800.0	90.00	179.54	9,731.0	-574.1	-388.2	604.1	0.00	0.00	0.00
10,900.0	90.00	179.54	9,731.0	-674.1	-387.4	703.7	0.00	0.00	0.00
11,000.0	90.00	179.54	9,731.0	-774.1	-386.6	803.3	0.00	0.00	0.00
11,100.0	90.00	179.54	9,731.0	-874.0	-385.8	902.9	0.00	0.00	0.00
11,200.0	90.00	179.54	9,731.0	-974.0	-385.0	1,002.5	0.00	0.00	0.00
11,300.0	90.00	179.54	9,731.0	-1,074.0	-384.2	1,102.1	0.00	0.00	0.00
11,400.0	90.00	179.54	9,731.0	-1,174.0	-383.4	1,201.7	0.00	0.00	0.00
11,500.0	90.00	179.54	9,731.0	-1,274.0	-382.6	1,301.3	0.00	0.00	0.00
11,600.0	90.00	179.54	9,731.0	-1,374.0	-381.8	1,400.8	0.00	0.00	0.00
11,700.0	90.00	179.54	9,731.0	-1,474.0	-381.0	1,500.4	0.00	0.00	0.00
11,800.0	90.00	179.54	9,731.0	-1,574.0	-380.2	1,600.0	0.00	0.00	0.00
11,900.0	90.00	179.54	9,731.0	-1,674.0	-379.3	1,699.6	0.00	0.00	0.00
12,000.0	90.00	179.54	9,731.0	-1,774.0	-378.5	1,799.2	0.00	0.00	0.00
12,100.0	90.00	179.54	9,731.0	-1,874.0	-377.7	1,898.8	0.00	0.00	0.00
12,200.0	90.00	179.54	9,731.0	-1,974.0	-376.9	1,998.4	0.00	0.00	0.00
12,300.0	90.00	179.54	9,731.0	-2,074.0	-376.1	2,098.0	0.00	0.00	0.00
12,400.0	90.00	179.54	9,731.0	-2,174.0	-375.3	2,197.6	0.00	0.00	0.00
12,500.0	90.00	179.54	9,731.0	-2,274.0	-374.5	2,297.1	0.00	0.00	0.00
12,600.0	90.00	179.54	9,731.0	-2,374.0	-373.7	2,396.7	0.00	0.00	0.00
12,700.0	90.00	179.54	9,731.0	-2,474.0	-372.9	2,496.3	0.00	0.00	0.00
12,800.0	90.00	179.54	9,731.0	-2,574.0	-372.1	2,595.9	0.00	0.00	0.00
12,900.0	90.00	179.54	9,731.0	-2,674.0	-371.3	2,695.5	0.00	0.00	0.00
13,000.0	90.00	179.54	9,731.0	-2,774.0	-370.5	2,795.1	0.00	0.00	0.00
13,100.0	90.00	179.54	9,731.0	-2,874.0	-369.7	2,894.7	0.00	0.00	0.00
13,200.0	90.00	179.54	9,731.0	-2,974.0	-368.9	2,994.3	0.00	0.00	0.00
13,300.0	90.00	179.54	9,731.0	-3,074.0	-368.1	3,093.9	0.00	0.00	0.00
13,400.0	90.00	179.54	9,731.0	-3,174.0	-367.3	3,193.5	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Cor
Well: #201H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25 @ 3461.0usft
MD Reference: KB = 25 @ 3461.0usft
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)
13,500.0	90.00	179.54	9,731.0	-3,274.0	-366.5	3,293.0	0.00	0.00	0.00
13,600.0	90.00	179.54	9,731.0	-3,374.0	-365.7	3,392.6	0.00	0.00	0.00
13,700.0	90.00	179.54	9,731.0	-3,474.0	-364.9	3,492.2	0.00	0.00	0.00
13,800.0	90.00	179.54	9,731.0	-3,574.0	-364.0	3,591.8	0.00	0.00	0.00
13,900.0	90.00	179.54	9,731.0	-3,674.0	-363.2	3,691.4	0.00	0.00	0.00
14,000.0	90.00	179.54	9,731.0	-3,774.0	-362.4	3,791.0	0.00	0.00	0.00
14,100.0	90.00	179.54	9,731.0	-3,874.0	-361.6	3,890.6	0.00	0.00	0.00
14,200.0	90.00	179.54	9,731.0	-3,973.9	-360.8	3,990.2	0.00	0.00	0.00
14,300.0	90.00	179.54	9,731.0	-4,073.9	-360.0	4,089.8	0.00	0.00	0.00
14,400.0	90.00	179.54	9,731.0	-4,173.9	-359.2	4,189.3	0.00	0.00	0.00
14,500.0	90.00	179.54	9,731.0	-4,273.9	-358.4	4,288.9	0.00	0.00	0.00
14,551.1	90.00	179.54	9,731.0	-4,325.0	-358.0	4,339.8	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
PBHL (Gem 36 State Cc - hit/miss target - Shape - Point	0.00	0.01	9,731.0	-4,325.0	-358.0	393,722.00	761,704.00	32° 4' 49.525 N	103° 37' 18.597 W
FTP (Gem 36 State Cor - plan misses target center by 47.9usft at 9846.4usft MD (9687.9 TVD, 373.3 N, -393.2 E) - Point	0.00	0.00	9,731.0	394.0	-396.0	398,441.00	761,666.00	32° 5' 36.225 N	103° 37' 18.677 W