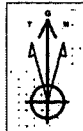




Lea County, NM (NAD 83 NME)

Gem 36 State Com #301H

Plan #0.2



Admuths to Grid North
True North: 4.33°
Magnetic North: 6.45°
Magnetic Field
Strength: 47751.4nT
Dip Angle: 55.82°
Date: 01/19/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.45°
To convert a Magnetic Direction to a True Direction, Add 9.80° East
To convert a True Direction to a Grid Direction, Subtract 0.36°

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: 6301H

KB = 25 @ 3481.0usft
Northing: 388080.00 Easting: 782061.00
Longitude: 32° 5' 32.627" W
Latitude: 33° 37' 14.113" N

SECTION DETAILS

Sec	MD	Line	Adj	TVD	+/-W	Diag	TPass	VSec	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.0		
2	3000.0	0.00	0.00	3000.0	0.0	0.00	0.00	0.0		
3	3467.1	8.94	340.09	3465.3	33.7	-11.9	2.00	344.89	-22.4	
4	1484.6	0.94	340.09	7254.7	911.3	-221.3	0.00	0.00	-605.0	
5	7851.7	0.00	0.00	7899.0	843.9	-232.2	2.00	189.00	-637.4	
6	9899.7	0.00	0.00	9944.0	843.9	-232.2	0.00	0.00	-637.4	
7	10026.7	80.88	164.58	9995.4	889.5	-153.4	12.00	194.58	-634.1	
8	10483.8	80.00	179.54	10132.0	180.0	-153.3	12.03	21.27	-156.7	
9	14862.8	90.00	179.54	10132.0	-4358.9	-117.0	0.00	0.00	-4357.8	

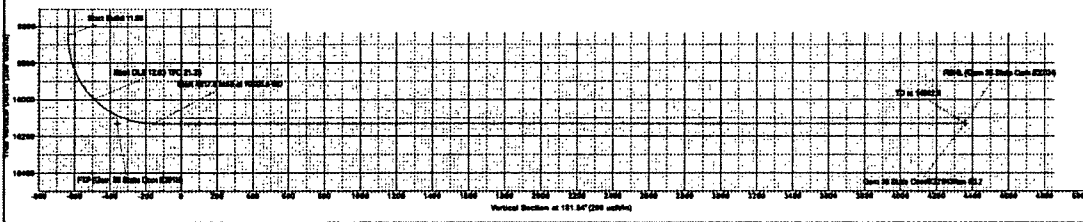
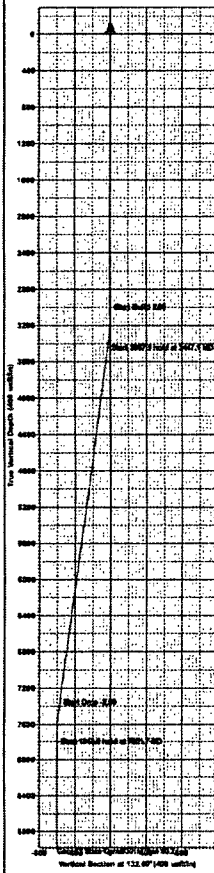
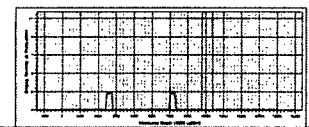
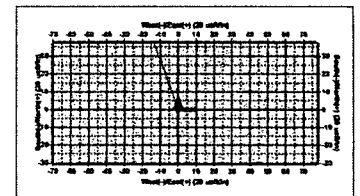
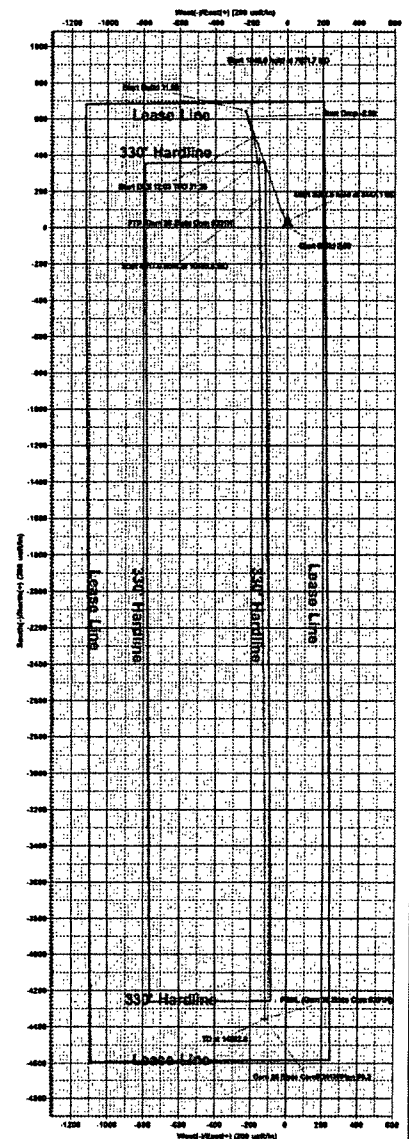
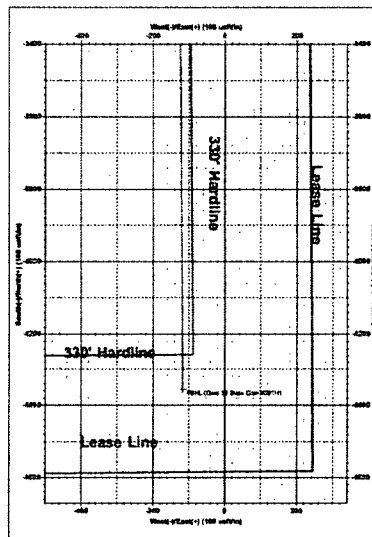
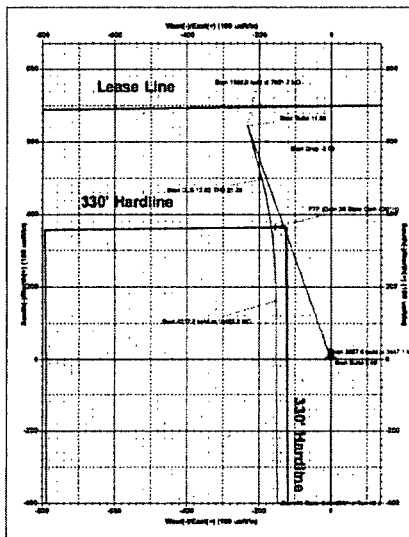
PBHL (Gem 36 State Com #301H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+/-W	Northing	Easting
PBHL (Gem 36 State Com #301H)	10132.0	-4358.9	-117.0	387726.00
FTP (Gem 36 State Com #301H)	10132.0	384.0	-155.0	388444.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#301H

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: #301H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
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	#301H					
Well Position	+N-S	4,394.0 usft	Northing:	398,080.00 usft	Latitude:	32° 5' 32.627 N
	+E-W	2,848.0 usft	Easting:	762,061.00 usft	Longitude:	103° 37' 14.113 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		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	47,751.41810336

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	181.54

Plan Survey Tool Program	Date	6/25/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	14,982.8	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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,447.1	8.94	340.09	3,445.3	32.7	-11.9	2.00	2.00	0.00	340.09	
7,404.6	8.94	340.09	7,354.7	611.2	-221.3	0.00	0.00	0.00	0.00	
7,851.7	0.00	0.00	7,800.0	643.9	-233.2	2.00	-2.00	0.00	180.00	
9,699.7	0.00	0.00	9,648.0	643.9	-233.2	0.00	0.00	0.00	0.00	
10,088.7	46.66	164.58	9,995.4	499.5	-193.4	12.00	12.00	0.00	164.58	
10,465.8	90.00	179.54	10,132.0	160.9	-153.3	12.03	11.49	3.97	21.27	
14,982.8	90.00	179.54	10,132.0	-4,356.0	-117.0	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: #301H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
 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	2.00	340.09	3,100.0	1.6	-0.6	-1.6	2.00	2.00	0.00
3,200.0	4.00	340.09	3,199.8	6.6	-2.4	-6.5	2.00	2.00	0.00
3,300.0	6.00	340.09	3,299.5	14.8	-5.3	-14.6	2.00	2.00	0.00
3,400.0	8.00	340.09	3,398.7	26.2	-9.5	-25.9	2.00	2.00	0.00
3,447.1	8.94	340.09	3,445.3	32.7	-11.9	-32.4	2.00	2.00	0.00
3,500.0	8.94	340.09	3,497.5	40.5	-14.7	-40.1	0.00	0.00	0.00
3,600.0	8.94	340.09	3,596.3	55.1	-19.9	-54.5	0.00	0.00	0.00
3,700.0	8.94	340.09	3,695.1	69.7	-25.2	-69.0	0.00	0.00	0.00
3,800.0	8.94	340.09	3,793.9	84.3	-30.5	-83.5	0.00	0.00	0.00
3,900.0	8.94	340.09	3,892.7	98.9	-35.8	-97.9	0.00	0.00	0.00
4,000.0	8.94	340.09	3,991.5	113.5	-41.1	-112.4	0.00	0.00	0.00
4,100.0	8.94	340.09	4,090.3	128.2	-46.4	-126.9	0.00	0.00	0.00
4,200.0	8.94	340.09	4,189.0	142.8	-51.7	-141.3	0.00	0.00	0.00
4,300.0	8.94	340.09	4,287.8	157.4	-57.0	-155.8	0.00	0.00	0.00
4,400.0	8.94	340.09	4,386.6	172.0	-62.3	-170.3	0.00	0.00	0.00
4,500.0	8.94	340.09	4,485.4	186.6	-67.6	-184.7	0.00	0.00	0.00
4,600.0	8.94	340.09	4,584.2	201.2	-72.9	-199.2	0.00	0.00	0.00
4,700.0	8.94	340.09	4,683.0	215.9	-78.2	-213.7	0.00	0.00	0.00
4,800.0	8.94	340.09	4,781.7	230.5	-83.5	-228.2	0.00	0.00	0.00
4,900.0	8.94	340.09	4,880.5	245.1	-88.8	-242.6	0.00	0.00	0.00
5,000.0	8.94	340.09	4,979.3	259.7	-94.1	-257.1	0.00	0.00	0.00
5,100.0	8.94	340.09	5,078.1	274.3	-99.4	-271.6	0.00	0.00	0.00
5,200.0	8.94	340.09	5,176.9	288.9	-104.6	-286.0	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 Com
 Well: #301H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
 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	8.94	340.09	5,275.7	303.6	-109.9	-300.5	0.00	0.00	0.00
5,400.0	8.94	340.09	5,374.4	318.2	-115.2	-315.0	0.00	0.00	0.00
5,500.0	8.94	340.09	5,473.2	332.8	-120.5	-329.4	0.00	0.00	0.00
5,600.0	8.94	340.09	5,572.0	347.4	-125.8	-343.9	0.00	0.00	0.00
5,700.0	8.94	340.09	5,670.8	362.0	-131.1	-358.4	0.00	0.00	0.00
5,800.0	8.94	340.09	5,769.6	376.6	-136.4	-372.8	0.00	0.00	0.00
5,900.0	8.94	340.09	5,868.4	391.2	-141.7	-387.3	0.00	0.00	0.00
6,000.0	8.94	340.09	5,967.2	405.9	-147.0	-401.8	0.00	0.00	0.00
6,100.0	8.94	340.09	6,065.9	420.5	-152.3	-416.2	0.00	0.00	0.00
6,200.0	8.94	340.09	6,164.7	435.1	-157.6	-430.7	0.00	0.00	0.00
6,300.0	8.94	340.09	6,263.5	449.7	-162.9	-445.2	0.00	0.00	0.00
6,400.0	8.94	340.09	6,362.3	464.3	-168.2	-459.6	0.00	0.00	0.00
6,500.0	8.94	340.09	6,461.1	478.9	-173.5	-474.1	0.00	0.00	0.00
6,600.0	8.94	340.09	6,559.9	493.6	-178.8	-488.6	0.00	0.00	0.00
6,700.0	8.94	340.09	6,658.6	508.2	-184.0	-503.1	0.00	0.00	0.00
6,800.0	8.94	340.09	6,757.4	522.8	-189.3	-517.5	0.00	0.00	0.00
6,900.0	8.94	340.09	6,856.2	537.4	-194.6	-532.0	0.00	0.00	0.00
7,000.0	8.94	340.09	6,955.0	552.0	-199.9	-546.5	0.00	0.00	0.00
7,100.0	8.94	340.09	7,053.8	566.6	-205.2	-560.9	0.00	0.00	0.00
7,200.0	8.94	340.09	7,152.6	581.3	-210.5	-575.4	0.00	0.00	0.00
7,300.0	8.94	340.09	7,251.4	595.9	-215.8	-589.9	0.00	0.00	0.00
7,404.6	8.94	340.09	7,354.7	611.2	-221.3	-605.0	0.00	0.00	0.00
7,500.0	7.03	340.09	7,449.1	623.6	-225.9	-617.3	2.00	-2.00	0.00
7,600.0	5.03	340.09	7,548.6	633.5	-229.4	-627.1	2.00	-2.00	0.00
7,700.0	3.03	340.09	7,648.3	640.1	-231.8	-633.7	2.00	-2.00	0.00
7,800.0	1.03	340.09	7,748.3	643.5	-233.0	-637.0	2.00	-2.00	0.00
7,851.7	0.00	0.00	7,800.0	643.9	-233.2	-637.4	2.00	-2.00	0.00
7,900.0	0.00	0.00	7,848.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,948.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,048.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,148.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,248.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,348.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,448.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,548.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,648.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,748.3	643.9	-233.2	-637.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,848.3	643.9	-233.2	-637.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,948.3	643.9	-233.2	-637.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,048.3	643.9	-233.2	-637.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,148.3	643.9	-233.2	-637.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,248.3	643.9	-233.2	-637.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,348.3	643.9	-233.2	-637.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,448.3	643.9	-233.2	-637.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,548.3	643.9	-233.2	-637.4	0.00	0.00	0.00
9,699.7	0.00	0.00	9,648.0	643.9	-233.2	-637.4	0.00	0.00	0.00
9,725.0	3.03	164.58	9,673.3	643.3	-233.0	-636.8	12.00	12.00	0.00
9,750.0	6.03	164.58	9,698.2	641.4	-232.5	-634.9	12.00	12.00	0.00
9,775.0	9.03	164.58	9,723.0	638.2	-231.6	-631.7	12.00	12.00	0.00
9,800.0	12.03	164.58	9,747.5	633.8	-230.4	-627.4	12.00	12.00	0.00
9,825.0	15.03	164.58	9,771.8	628.2	-228.9	-621.8	12.00	12.00	0.00
9,850.0	18.03	164.58	9,795.8	621.3	-227.0	-615.0	12.00	12.00	0.00
9,875.0	21.02	164.58	9,819.4	613.2	-224.7	-607.0	12.00	12.00	0.00
9,900.0	24.02	164.58	9,842.4	604.0	-222.2	-597.8	12.00	12.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #301H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
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)
9,925.0	27.02	164.58	9,865.0	593.6	-219.3	-587.5	12.00	12.00	0.00
9,950.0	30.02	164.58	9,887.0	582.1	-216.2	-576.1	12.00	12.00	0.00
9,975.0	33.02	164.58	9,908.3	569.5	-212.7	-563.6	12.00	12.00	0.00
10,000.0	36.02	164.58	9,928.9	555.9	-208.9	-550.1	12.00	12.00	0.00
10,025.0	39.02	164.58	9,948.7	541.2	-204.9	-535.5	12.00	12.00	0.00
10,050.0	42.02	164.58	9,967.7	525.5	-200.6	-520.0	12.00	12.00	0.00
10,075.0	45.02	164.58	9,985.8	508.9	-196.0	-503.5	12.00	12.00	0.00
10,088.7	46.66	164.58	9,995.4	499.5	-193.4	-494.1	12.00	12.00	0.00
10,100.0	47.93	165.24	10,003.0	491.5	-191.2	-486.1	12.03	11.23	5.88
10,125.0	50.75	166.62	10,019.3	473.1	-186.6	-467.9	12.03	11.28	5.52
10,150.0	53.58	167.90	10,034.7	453.8	-182.2	-448.8	12.03	11.34	5.09
10,175.0	56.43	169.08	10,049.0	433.7	-178.2	-428.8	12.03	11.39	4.73
10,200.0	59.29	170.19	10,062.3	412.9	-174.4	-408.1	12.03	11.43	4.43
10,225.0	62.15	171.23	10,074.5	391.4	-170.8	-386.7	12.03	11.46	4.17
10,250.0	65.03	172.22	10,085.6	369.2	-167.6	-364.6	12.03	11.49	3.96
10,275.0	67.91	173.16	10,095.6	346.5	-164.7	-342.0	12.03	11.52	3.78
10,300.0	70.79	174.07	10,104.4	323.3	-162.1	-318.8	12.03	11.54	3.63
10,325.0	73.68	174.95	10,112.1	299.6	-159.8	-295.2	12.03	11.56	3.50
10,350.0	76.57	175.80	10,118.5	275.5	-157.9	-271.2	12.03	11.57	3.40
10,375.0	79.47	176.62	10,123.7	251.1	-156.3	-246.8	12.03	11.58	3.32
10,400.0	82.37	177.44	10,127.6	226.4	-155.0	-222.2	12.03	11.59	3.26
10,425.0	85.27	178.24	10,130.3	201.6	-154.1	-197.4	12.03	11.60	3.21
10,450.0	88.17	179.04	10,131.7	176.7	-153.5	-172.5	12.03	11.60	3.19
10,465.8	90.00	179.54	10,132.0	160.9	-153.3	-156.7	12.03	11.60	3.18
10,500.0	90.00	179.54	10,132.0	126.7	-153.0	-122.5	0.00	0.00	0.00
10,600.0	90.00	179.54	10,132.0	26.7	-152.2	-22.6	0.00	0.00	0.00
10,700.0	90.00	179.54	10,132.0	-73.3	-151.4	77.4	0.00	0.00	0.00
10,800.0	90.00	179.54	10,132.0	-173.3	-150.6	177.3	0.00	0.00	0.00
10,900.0	90.00	179.54	10,132.0	-273.3	-149.8	277.2	0.00	0.00	0.00
11,000.0	90.00	179.54	10,132.0	-373.3	-149.0	377.2	0.00	0.00	0.00
11,100.0	90.00	179.54	10,132.0	-473.3	-148.2	477.1	0.00	0.00	0.00
11,200.0	90.00	179.54	10,132.0	-573.3	-147.4	577.1	0.00	0.00	0.00
11,300.0	90.00	179.54	10,132.0	-673.3	-146.6	677.0	0.00	0.00	0.00
11,400.0	90.00	179.54	10,132.0	-773.3	-145.8	776.9	0.00	0.00	0.00
11,500.0	90.00	179.54	10,132.0	-873.3	-145.0	876.9	0.00	0.00	0.00
11,600.0	90.00	179.54	10,132.0	-973.3	-144.2	976.8	0.00	0.00	0.00
11,700.0	90.00	179.54	10,132.0	-1,073.3	-143.4	1,076.8	0.00	0.00	0.00
11,800.0	90.00	179.54	10,132.0	-1,173.3	-142.6	1,176.7	0.00	0.00	0.00
11,900.0	90.00	179.54	10,132.0	-1,273.3	-141.8	1,276.6	0.00	0.00	0.00
12,000.0	90.00	179.54	10,132.0	-1,373.3	-140.9	1,376.6	0.00	0.00	0.00
12,100.0	90.00	179.54	10,132.0	-1,473.3	-140.1	1,476.5	0.00	0.00	0.00
12,200.0	90.00	179.54	10,132.0	-1,573.3	-139.3	1,576.5	0.00	0.00	0.00
12,300.0	90.00	179.54	10,132.0	-1,673.3	-138.5	1,676.4	0.00	0.00	0.00
12,400.0	90.00	179.54	10,132.0	-1,773.3	-137.7	1,776.3	0.00	0.00	0.00
12,500.0	90.00	179.54	10,132.0	-1,873.3	-136.9	1,876.3	0.00	0.00	0.00
12,600.0	90.00	179.54	10,132.0	-1,973.3	-136.1	1,976.2	0.00	0.00	0.00
12,700.0	90.00	179.54	10,132.0	-2,073.3	-135.3	2,076.1	0.00	0.00	0.00
12,800.0	90.00	179.54	10,132.0	-2,173.3	-134.5	2,176.1	0.00	0.00	0.00
12,900.0	90.00	179.54	10,132.0	-2,273.3	-133.7	2,276.0	0.00	0.00	0.00
13,000.0	90.00	179.54	10,132.0	-2,373.3	-132.9	2,376.0	0.00	0.00	0.00
13,100.0	90.00	179.54	10,132.0	-2,473.2	-132.1	2,475.9	0.00	0.00	0.00
13,200.0	90.00	179.54	10,132.0	-2,573.2	-131.3	2,575.8	0.00	0.00	0.00
13,300.0	90.00	179.54	10,132.0	-2,673.2	-130.5	2,675.8	0.00	0.00	0.00
13,400.0	90.00	179.54	10,132.0	-2,773.2	-129.7	2,775.7	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 Cor
 Well: #301H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
 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	10,132.0	-2,873.2	-128.9	2,875.7	0.00	0.00	0.00
13,600.0	90.00	179.54	10,132.0	-2,973.2	-128.1	2,975.6	0.00	0.00	0.00
13,700.0	90.00	179.54	10,132.0	-3,073.2	-127.3	3,075.5	0.00	0.00	0.00
13,800.0	90.00	179.54	10,132.0	-3,173.2	-126.5	3,175.5	0.00	0.00	0.00
13,900.0	90.00	179.54	10,132.0	-3,273.2	-125.7	3,275.4	0.00	0.00	0.00
14,000.0	90.00	179.54	10,132.0	-3,373.2	-124.9	3,375.4	0.00	0.00	0.00
14,100.0	90.00	179.54	10,132.0	-3,473.2	-124.1	3,475.3	0.00	0.00	0.00
14,200.0	90.00	179.54	10,132.0	-3,573.2	-123.3	3,575.2	0.00	0.00	0.00
14,300.0	90.00	179.54	10,132.0	-3,673.2	-122.5	3,675.2	0.00	0.00	0.00
14,400.0	90.00	179.54	10,132.0	-3,773.2	-121.7	3,775.1	0.00	0.00	0.00
14,500.0	90.00	179.54	10,132.0	-3,873.2	-120.9	3,875.1	0.00	0.00	0.00
14,600.0	90.00	179.54	10,132.0	-3,973.2	-120.1	3,975.0	0.00	0.00	0.00
14,700.0	90.00	179.54	10,132.0	-4,073.2	-119.3	4,074.9	0.00	0.00	0.00
14,800.0	90.00	179.54	10,132.0	-4,173.2	-118.5	4,174.9	0.00	0.00	0.00
14,900.0	90.00	179.54	10,132.0	-4,273.2	-117.7	4,274.8	0.00	0.00	0.00
14,982.8	90.00	179.54	10,132.0	-4,356.0	-117.0	4,357.6	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Gem 36 State Cc - plan hits target center - Point	0.00	0.00	10,132.0	-4,356.0	-117.0	393,724.00	761,944.00	32° 4' 49.529 N	103° 37' 15.808 W
FTP (Gem 36 State Cor - plan misses target center by 41.5usft at 10274.8usft MD (10095.5 TVD, 346.7 N, -164.7 E) - Point	0.00	0.00	10,132.0	364.0	-155.0	398,444.00	761,906.00	32° 5' 36.239 N	103° 37' 15.887 W