

JAN 30 2019

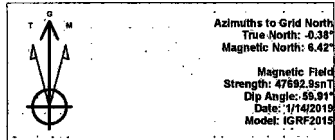
RECEIVED



Lea County, NM (NAD 83 NME)

Gem 36 State Com #202H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.80° 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
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #202H

KB = 25 @ 3451.0usft 3426.0
Northing 398435.00 Easting 760562.00 Latitude 32° 5' 38.237 N Longitude 103° 37' 31.511 W

SECTION DETAILS

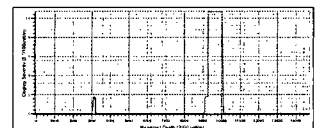
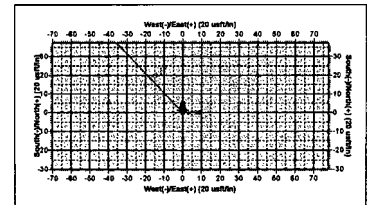
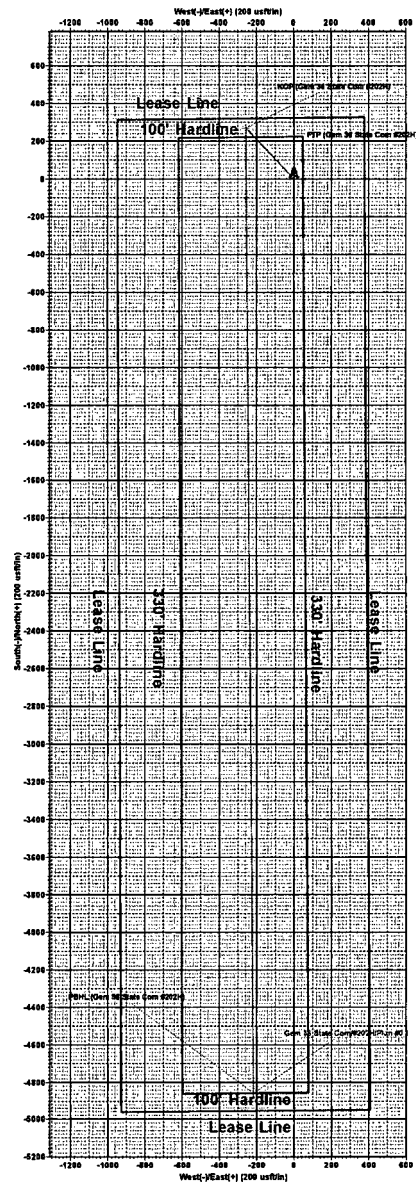
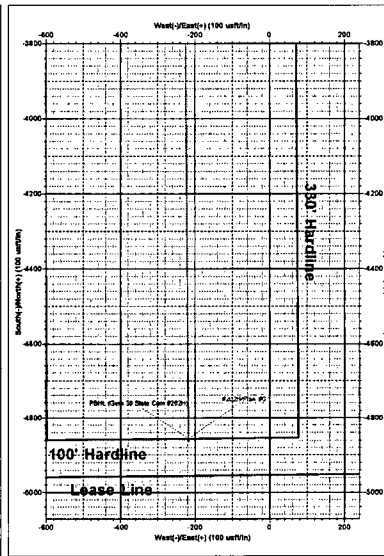
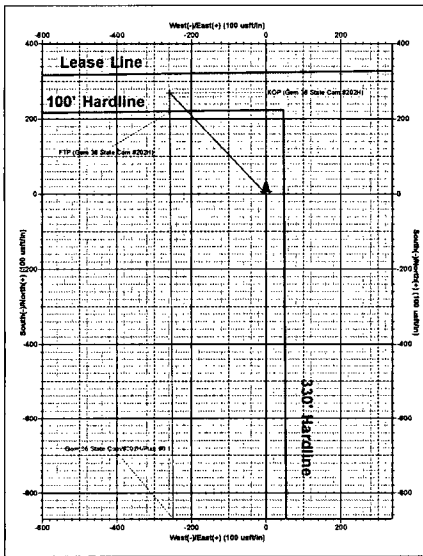
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	3006.0	0.00	0.00	3006.0	0.0	0.0	0.00	0.00	0.0		
3	3175.8	3.52	316.30	3175.7	3.8	-3.7	2.00	316.30	-3.7		
4	9089.0	3.52	316.30	9077.8	266.1	-264.3	0.00	0.00	-264.6		
5	9264.9	0.00	0.00	9263.6	270.0	-268.0	2.00	180.00	-268.2		KOP (Gem 36 State Com #202H)
6	10014.8	90.00	179.54	9731.0	207.4	-254.2	12.00	179.54	219.6		PBHL (Gem 36 State Com #202H)
7	14663.6	90.00	179.54	9731.0	-4859.0	-217.0	0.00	0.00	4860.8		

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Gem 36 State Com #202H)	9253.5	270.0	-258.0	398705.00	760304.00
PBHL (Gem 36 State Com #202H)	9731.0	-4856.0	-217.0	393578.00	760345.00
FTP (Gem 36 State Com #202H)	9731.0	220.0	-258.0	398665.00	760304.00



Lea County, NM (NAD 83 NME)
Gem 36 State Com #202H
Date: 1/14/2019
Model: IGRF2015



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#202H

OH

Plan: Plan #0.1

Standard Planning Report

14 January, 2019

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #202H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3451.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3451.0usft
Site:	Gem 36 State Com	North Reference:	Grid
Well:	#202H	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	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	#202H					
Well Position	+N/-S	4,749.0 usft	Northing:	398,435.00 usft	Latitude:	32° 5' 36.237 N
	+E/-W	1,349.0 usft	Easting:	760,562.00 usft	Longitude:	103° 37' 31.511 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,426.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/14/2019	6.80	59.91	47,692.85489758

Design	Plan #0.1			
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	182.56

Plan Survey Tool Program	Date	1/14/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	14,663.6 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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,175.8	3.52	316.30	3,175.7	3.9	-3.7	2.00	2.00	0.00	316.30	
9,089.0	3.52	316.30	9,077.8	266.1	-254.3	0.00	0.00	0.00	0.00	
9,264.9	0.00	0.00	9,253.5	270.0	-258.0	2.00	-2.00	0.00	180.00	KOP (Gem 36 State C
10,014.8	90.00	179.54	9,731.0	-207.4	-254.2	12.00	12.00	23.94	179.54	
14,663.6	90.00	179.54	9,731.0	-4,856.0	-217.0	0.00	0.00	0.00	0.00	PBHL (Gem 36 State

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #202H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3451.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3451.0usft
Site:	Gem 36 State Com	North Reference:	Grid
Well:	#202H	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
1,500.0	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	316.30	3,100.0	1.3	-1.2	-1.2	2.00	2.00	0.00
3,175.8	3.52	316.30	3,175.7	3.9	-3.7	-3.7	2.00	2.00	0.00
3,200.0	3.52	316.30	3,199.8	5.0	-4.8	-4.8	0.00	0.00	0.00
3,300.0	3.52	316.30	3,299.7	9.4	-9.0	-9.0	0.00	0.00	0.00
3,400.0	3.52	316.30	3,399.5	13.8	-13.2	-13.2	0.00	0.00	0.00
3,500.0	3.52	316.30	3,499.3	18.3	-17.5	-17.5	0.00	0.00	0.00
3,600.0	3.52	316.30	3,599.1	22.7	-21.7	-21.7	0.00	0.00	0.00
3,700.0	3.52	316.30	3,698.9	27.1	-25.9	-26.0	0.00	0.00	0.00
3,800.0	3.52	316.30	3,798.7	31.6	-30.2	-30.2	0.00	0.00	0.00
3,900.0	3.52	316.30	3,898.5	36.0	-34.4	-34.4	0.00	0.00	0.00
4,000.0	3.52	316.30	3,998.3	40.4	-38.6	-38.7	0.00	0.00	0.00
4,100.0	3.52	316.30	4,098.1	44.9	-42.9	-42.9	0.00	0.00	0.00
4,200.0	3.52	316.30	4,198.0	49.3	-47.1	-47.2	0.00	0.00	0.00
4,300.0	3.52	316.30	4,297.8	53.7	-51.4	-51.4	0.00	0.00	0.00
4,400.0	3.52	316.30	4,397.6	58.2	-55.6	-55.6	0.00	0.00	0.00
4,500.0	3.52	316.30	4,497.4	62.6	-59.8	-59.9	0.00	0.00	0.00
4,600.0	3.52	316.30	4,597.2	67.0	-64.1	-64.1	0.00	0.00	0.00
4,700.0	3.52	316.30	4,697.0	71.5	-68.3	-68.4	0.00	0.00	0.00
4,800.0	3.52	316.30	4,796.8	75.9	-72.5	-72.6	0.00	0.00	0.00
4,900.0	3.52	316.30	4,896.6	80.4	-76.8	-76.8	0.00	0.00	0.00
5,000.0	3.52	316.30	4,996.5	84.8	-81.0	-81.1	0.00	0.00	0.00
5,100.0	3.52	316.30	5,096.3	89.2	-85.3	-85.3	0.00	0.00	0.00
5,200.0	3.52	316.30	5,196.1	93.7	-89.5	-89.6	0.00	0.00	0.00

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Site:	Gem 36 State Com	North Reference:	Grid
Well:	#202H	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)
5,300.0	3.52	316.30	5,295.9	98.1	-93.7	-93.8	0.00	0.00	0.00
5,400.0	3.52	316.30	5,395.7	102.5	-98.0	-98.0	0.00	0.00	0.00
5,500.0	3.52	316.30	5,495.5	107.0	-102.2	-102.3	0.00	0.00	0.00
5,600.0	3.52	316.30	5,595.3	111.4	-106.4	-106.5	0.00	0.00	0.00
5,700.0	3.52	316.30	5,695.1	115.8	-110.7	-110.8	0.00	0.00	0.00
5,800.0	3.52	316.30	5,794.9	120.3	-114.9	-115.0	0.00	0.00	0.00
5,900.0	3.52	316.30	5,894.8	124.7	-119.2	-119.3	0.00	0.00	0.00
6,000.0	3.52	316.30	5,994.6	129.1	-123.4	-123.5	0.00	0.00	0.00
6,100.0	3.52	316.30	6,094.4	133.6	-127.6	-127.7	0.00	0.00	0.00
6,200.0	3.52	316.30	6,194.2	138.0	-131.9	-132.0	0.00	0.00	0.00
6,300.0	3.52	316.30	6,294.0	142.4	-136.1	-136.2	0.00	0.00	0.00
6,400.0	3.52	316.30	6,393.8	146.9	-140.3	-140.5	0.00	0.00	0.00
6,500.0	3.52	316.30	6,493.6	151.3	-144.6	-144.7	0.00	0.00	0.00
6,600.0	3.52	316.30	6,593.4	155.7	-148.8	-148.9	0.00	0.00	0.00
6,700.0	3.52	316.30	6,693.3	160.2	-153.0	-153.2	0.00	0.00	0.00
6,800.0	3.52	316.30	6,793.1	164.6	-157.3	-157.4	0.00	0.00	0.00
6,900.0	3.52	316.30	6,892.9	169.0	-161.5	-161.7	0.00	0.00	0.00
7,000.0	3.52	316.30	6,992.7	173.5	-165.8	-165.9	0.00	0.00	0.00
7,100.0	3.52	316.30	7,092.5	177.9	-170.0	-170.1	0.00	0.00	0.00
7,200.0	3.52	316.30	7,192.3	182.3	-174.2	-174.4	0.00	0.00	0.00
7,300.0	3.52	316.30	7,292.1	186.8	-178.5	-178.6	0.00	0.00	0.00
7,400.0	3.52	316.30	7,391.9	191.2	-182.7	-182.9	0.00	0.00	0.00
7,500.0	3.52	316.30	7,491.7	195.6	-186.9	-187.1	0.00	0.00	0.00
7,600.0	3.52	316.30	7,591.6	200.1	-191.2	-191.3	0.00	0.00	0.00
7,700.0	3.52	316.30	7,691.4	204.5	-195.4	-195.6	0.00	0.00	0.00
7,800.0	3.52	316.30	7,791.2	208.9	-199.7	-199.8	0.00	0.00	0.00
7,900.0	3.52	316.30	7,891.0	213.4	-203.9	-204.1	0.00	0.00	0.00
8,000.0	3.52	316.30	7,990.8	217.8	-208.1	-208.3	0.00	0.00	0.00
8,100.0	3.52	316.30	8,090.6	222.2	-212.4	-212.5	0.00	0.00	0.00
8,200.0	3.52	316.30	8,190.4	226.7	-216.6	-216.8	0.00	0.00	0.00
8,300.0	3.52	316.30	8,290.2	231.1	-220.8	-221.0	0.00	0.00	0.00
8,400.0	3.52	316.30	8,390.1	235.5	-225.1	-225.3	0.00	0.00	0.00
8,500.0	3.52	316.30	8,489.9	240.0	-229.3	-229.5	0.00	0.00	0.00
8,600.0	3.52	316.30	8,589.7	244.4	-233.6	-233.7	0.00	0.00	0.00
8,700.0	3.52	316.30	8,689.5	248.9	-237.8	-238.0	0.00	0.00	0.00
8,800.0	3.52	316.30	8,789.3	253.3	-242.0	-242.2	0.00	0.00	0.00
8,900.0	3.52	316.30	8,889.1	257.7	-246.3	-246.5	0.00	0.00	0.00
9,000.0	3.52	316.30	8,988.9	262.2	-250.5	-250.7	0.00	0.00	0.00
9,089.0	3.52	316.30	9,077.8	266.1	-254.3	-254.5	0.00	0.00	0.00
9,100.0	3.30	316.30	9,088.7	266.6	-254.7	-254.9	2.00	-2.00	0.00
9,200.0	1.30	316.30	9,188.7	269.5	-257.5	-257.7	2.00	-2.00	0.00
9,264.9	0.00	0.00	9,253.5	270.0	-258.0	-258.2	2.00	-2.00	0.00
KOP (Gem 36 State Com #202H)									
9,275.0	1.22	179.54	9,263.6	269.9	-258.0	-258.1	12.00	12.00	0.00
9,300.0	4.22	179.54	9,288.6	268.7	-258.0	-256.9	12.00	12.00	0.00
9,325.0	7.22	179.54	9,313.5	266.2	-258.0	-254.4	12.00	12.00	0.00
9,350.0	10.22	179.54	9,338.2	262.4	-257.9	-250.7	12.00	12.00	0.00
9,375.0	13.22	179.54	9,362.7	257.4	-257.9	-245.6	12.00	12.00	0.00
9,400.0	16.22	179.54	9,386.9	251.0	-257.8	-239.2	12.00	12.00	0.00
9,425.0	19.22	179.54	9,410.7	243.4	-257.8	-231.6	12.00	12.00	0.00
9,450.0	22.22	179.54	9,434.0	234.6	-257.7	-222.8	12.00	12.00	0.00
9,475.0	25.22	179.54	9,456.9	224.5	-257.6	-212.8	12.00	12.00	0.00
9,500.0	28.22	179.54	9,479.3	213.3	-257.5	-201.5	12.00	12.00	0.00

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3451.0usft
Site:	Gem 36 State Com	North Reference:	Grid
Well:	#202H	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)
9,525.0	31.22	179.54	9,501.0	200.9	-257.4	-189.2	12.00	12.00	0.00
9,550.0	34.22	179.54	9,522.0	187.4	-257.3	-175.7	12.00	12.00	0.00
9,575.0	37.22	179.54	9,542.3	172.8	-257.2	-161.1	12.00	12.00	0.00
9,600.0	40.22	179.54	9,561.8	157.1	-257.1	-145.5	12.00	12.00	0.00
9,625.0	43.22	179.54	9,580.5	140.5	-257.0	-128.9	12.00	12.00	0.00
9,650.0	46.22	179.54	9,598.2	122.9	-256.8	-111.3	12.00	12.00	0.00
9,667.5	48.32	179.54	9,610.1	110.1	-256.7	-98.5	12.00	12.00	0.00
FTP (Gem 36 State Com #202H)									
9,675.0	49.22	179.54	9,615.0	104.4	-256.7	-92.9	12.00	12.00	0.00
9,700.0	52.22	179.54	9,630.9	85.1	-256.5	-73.5	12.00	12.00	0.00
9,725.0	55.22	179.54	9,645.7	64.9	-256.4	-53.4	12.00	12.00	0.00
9,750.0	58.22	179.54	9,659.4	44.0	-256.2	-32.5	12.00	12.00	0.00
9,775.0	61.22	179.54	9,672.0	22.4	-256.0	-11.0	12.00	12.00	0.00
9,800.0	64.22	179.54	9,683.4	0.2	-255.8	11.2	12.00	12.00	0.00
9,825.0	67.22	179.54	9,693.7	-22.6	-255.7	34.0	12.00	12.00	0.00
9,850.0	70.22	179.54	9,702.8	-45.9	-255.5	57.2	12.00	12.00	0.00
9,875.0	73.22	179.54	9,710.6	-69.6	-255.3	80.9	12.00	12.00	0.00
9,900.0	76.22	179.54	9,717.2	-93.7	-255.1	105.0	12.00	12.00	0.00
9,925.0	79.22	179.54	9,722.5	-118.1	-254.9	129.4	12.00	12.00	0.00
9,950.0	82.22	179.54	9,726.6	-142.8	-254.7	154.0	12.00	12.00	0.00
9,975.0	85.22	179.54	9,729.3	-167.6	-254.5	178.8	12.00	12.00	0.00
10,000.0	88.22	179.54	9,730.7	-192.6	-254.3	203.8	12.00	12.00	0.00
10,014.8	90.00	179.54	9,731.0	-207.4	-254.2	218.6	12.00	12.00	0.00
10,100.0	90.00	179.54	9,731.0	-292.6	-253.5	303.6	0.00	0.00	0.00
10,200.0	90.00	179.54	9,731.0	-392.6	-252.7	403.5	0.00	0.00	0.00
10,300.0	90.00	179.54	9,731.0	-492.6	-251.9	503.3	0.00	0.00	0.00
10,400.0	90.00	179.54	9,731.0	-592.6	-251.1	603.2	0.00	0.00	0.00
10,500.0	90.00	179.54	9,731.0	-692.6	-250.3	703.1	0.00	0.00	0.00
10,600.0	90.00	179.54	9,731.0	-792.6	-249.5	802.9	0.00	0.00	0.00
10,700.0	90.00	179.54	9,731.0	-892.6	-248.7	902.8	0.00	0.00	0.00
10,800.0	90.00	179.54	9,731.0	-992.6	-247.9	1,002.6	0.00	0.00	0.00
10,900.0	90.00	179.54	9,731.0	-1,092.6	-247.1	1,102.5	0.00	0.00	0.00
11,000.0	90.00	179.54	9,731.0	-1,192.6	-246.3	1,202.4	0.00	0.00	0.00
11,100.0	90.00	179.54	9,731.0	-1,292.6	-245.5	1,302.2	0.00	0.00	0.00
11,200.0	90.00	179.54	9,731.0	-1,392.6	-244.7	1,402.1	0.00	0.00	0.00
11,300.0	90.00	179.54	9,731.0	-1,492.6	-243.9	1,502.0	0.00	0.00	0.00
11,400.0	90.00	179.54	9,731.0	-1,592.6	-243.1	1,601.8	0.00	0.00	0.00
11,500.0	90.00	179.54	9,731.0	-1,692.5	-242.3	1,701.7	0.00	0.00	0.00
11,600.0	90.00	179.54	9,731.0	-1,792.5	-241.5	1,801.5	0.00	0.00	0.00
11,700.0	90.00	179.54	9,731.0	-1,892.5	-240.7	1,901.4	0.00	0.00	0.00
11,800.0	90.00	179.54	9,731.0	-1,992.5	-239.9	2,001.3	0.00	0.00	0.00
11,900.0	90.00	179.54	9,731.0	-2,092.5	-239.1	2,101.1	0.00	0.00	0.00
12,000.0	90.00	179.54	9,731.0	-2,192.5	-238.3	2,201.0	0.00	0.00	0.00
12,100.0	90.00	179.54	9,731.0	-2,292.5	-237.5	2,300.8	0.00	0.00	0.00
12,200.0	90.00	179.54	9,731.0	-2,392.5	-236.7	2,400.7	0.00	0.00	0.00
12,300.0	90.00	179.54	9,731.0	-2,492.5	-235.9	2,500.6	0.00	0.00	0.00
12,400.0	90.00	179.54	9,731.0	-2,592.5	-235.1	2,600.4	0.00	0.00	0.00
12,500.0	90.00	179.54	9,731.0	-2,692.5	-234.3	2,700.3	0.00	0.00	0.00
12,600.0	90.00	179.54	9,731.0	-2,792.5	-233.5	2,800.2	0.00	0.00	0.00
12,700.0	90.00	179.54	9,731.0	-2,892.5	-232.7	2,900.0	0.00	0.00	0.00
12,800.0	90.00	179.54	9,731.0	-2,992.5	-231.9	2,999.9	0.00	0.00	0.00
12,900.0	90.00	179.54	9,731.0	-3,092.5	-231.1	3,099.7	0.00	0.00	0.00
13,000.0	90.00	179.54	9,731.0	-3,192.5	-230.3	3,199.6	0.00	0.00	0.00
13,100.0	90.00	179.54	9,731.0	-3,292.5	-229.5	3,299.5	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #202H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3451.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3451.0usft
Site:	Gem 36 State Com	North Reference:	Grid
Well:	#202H	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)	
13,200.0	90.00	179.54	9,731.0	-3,392.5	-228.7	3,399.3	0.00	0.00	0.00	
13,300.0	90.00	179.54	9,731.0	-3,492.5	-227.9	3,499.2	0.00	0.00	0.00	
13,400.0	90.00	179.54	9,731.0	-3,592.5	-227.1	3,599.0	0.00	0.00	0.00	
13,500.0	90.00	179.54	9,731.0	-3,692.5	-226.3	3,698.9	0.00	0.00	0.00	
13,600.0	90.00	179.54	9,731.0	-3,792.5	-225.5	3,798.8	0.00	0.00	0.00	
13,700.0	90.00	179.54	9,731.0	-3,892.5	-224.7	3,898.6	0.00	0.00	0.00	
13,800.0	90.00	179.54	9,731.0	-3,992.5	-223.9	3,998.5	0.00	0.00	0.00	
13,900.0	90.00	179.54	9,731.0	-4,092.5	-223.1	4,098.4	0.00	0.00	0.00	
14,000.0	90.00	179.54	9,731.0	-4,192.5	-222.3	4,198.2	0.00	0.00	0.00	
14,100.0	90.00	179.54	9,731.0	-4,292.5	-221.5	4,298.1	0.00	0.00	0.00	
14,200.0	90.00	179.54	9,731.0	-4,392.5	-220.7	4,397.9	0.00	0.00	0.00	
14,300.0	90.00	179.54	9,731.0	-4,492.5	-219.9	4,497.8	0.00	0.00	0.00	
14,400.0	90.00	179.54	9,731.0	-4,592.5	-219.1	4,597.7	0.00	0.00	0.00	
14,500.0	90.00	179.54	9,731.0	-4,692.5	-218.3	4,697.5	0.00	0.00	0.00	
14,600.0	90.00	179.54	9,731.0	-4,792.5	-217.5	4,797.4	0.00	0.00	0.00	
14,663.6	90.00	179.54	9,731.0	-4,856.0	-217.0	4,860.8	0.00	0.00	0.00	
PBHL (Gem 36 State Com #202H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- hit/miss target										
- Shape										
KOP (Gem 36 State Cor - plan hits target center - Point	0.00	0.00	9,253.5	270.0	-258.0	398,705.00	760,304.00	32° 5' 38.926 N		103° 37' 34.489 W
FTP (Gem 36 State Cor - plan misses target center by 163.4usft at 9667.5usft MD (9610.1 TVD, 110.1 N, -256.7 E) - Point	0.00	0.00	9,731.0	220.0	-258.0	398,655.00	760,304.00	32° 5' 38.431 N		103° 37' 34.493 W
PBHL (Gem 36 State Co - plan hits target center - Point	0.00	0.00	9,731.0	-4,856.0	-217.0	393,579.00	760,345.00	32° 4' 48.199 N		103° 37' 34.403 W