

JAN 29 2019

RECEIVED



Lea County, NM (NAD 83 NME)

Gem 36 State Com #201H

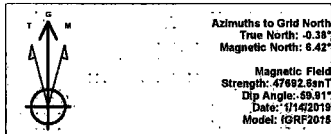
Plan #0.1

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: #201H

KB = 25 @ 3451.0usft 3426.0
 Northing 398146.00 Easting 761085.00 Latitude 32° 5' 33.343 N Longitude 103° 37' 25.453 W



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°

SECTION DETAILS

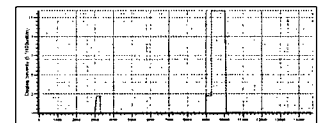
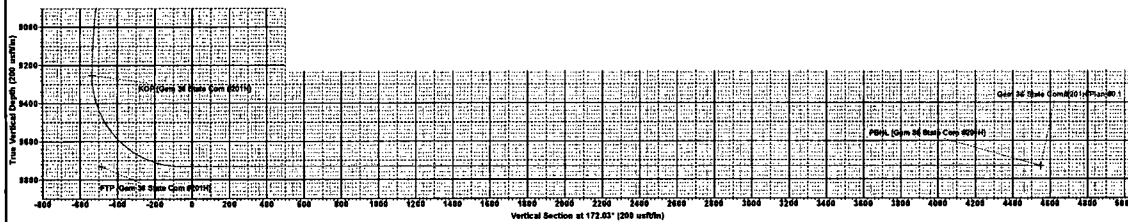
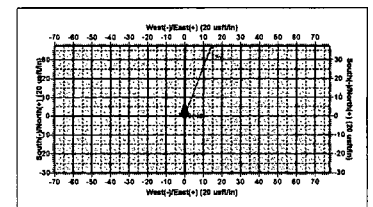
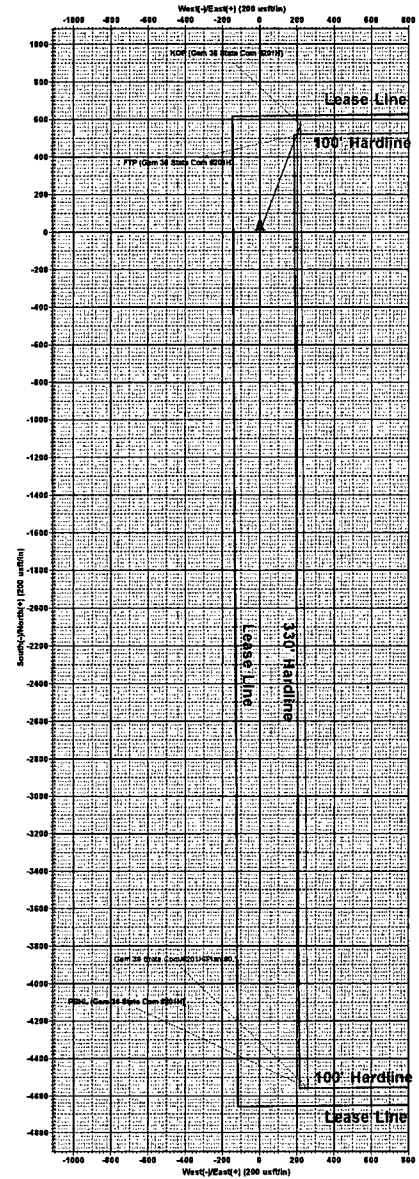
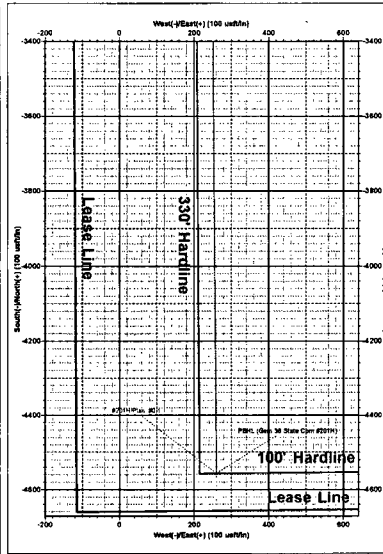
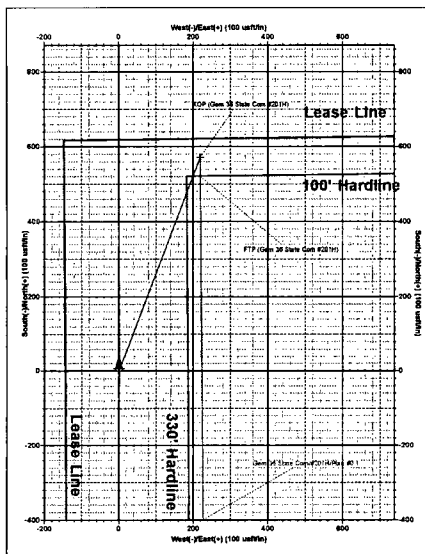
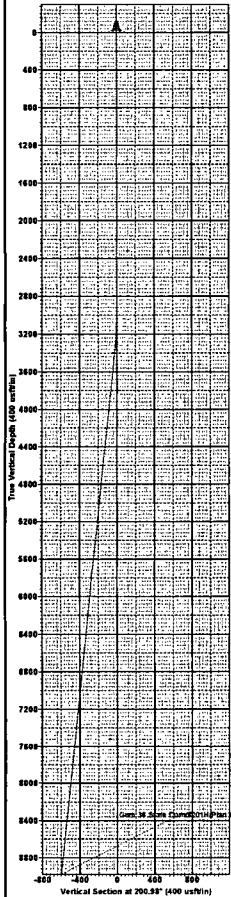
Sec	MD	Inc	Azi	TVD	+W-S	+E-W	Dipg	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	8.00	0.0		
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0		
3	3232.9	5.86	20.38	3232.4	14.0	6.4	2.00	20.88	-13.1		
4	8991.4	5.86	20.38	8961.1	657.0	213.6	0.00	0.00	-522.0		
5	9284.3	0.00	0.00	9283.5	671.0	219.0	2.00	180.00	-538.1		KOP (Gem 36 State Com #201H)
6	10034.3	90.00	179.54	9731.0	93.8	222.8	12.00	178.54	-91.8		PBHL (Gem 36 State Com #201H)
7	14895.0	90.00	179.54	9731.0	-4567.0	260.0	0.00	0.00	4549.1		

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+W-S	+E-W	Northing	Easting
KOP (Gem 36 State Com #201H)	9283.5	671.0	219.0	398717.00	761304.00
PBHL (Gem 36 State Com #201H)	9731.0	-4567.0	260.0	393589.00	761345.00
FTP (Gem 36 State Com #201H)	9731.0	621.0	219.0	398667.00	761304.00



Lea County, NM (NAD 83 NME)
 Gem 36 State Com #201H
 Plan #0.1
 11/16/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#201H

OH

Plan: Plan #0.1

Standard Planning Report

14 January, 2019

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #201H
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:	#201H	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	#201H			
Well Position	+N/-S	4,460.0 usft	Northing:	398,146.00 usft
	+E/-W	1,872.0 usft	Easting:	761,085.00 usft
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	47,692.55426318

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	172.03

Plan Survey Tool Program	Date	1/14/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	14,685.0 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	
3,292.9	5.86	20.98	3,292.4	14.0	5.4	2.00	2.00	0.00	20.98	
8,991.4	5.86	20.98	8,961.1	557.0	213.6	0.00	0.00	0.00	0.00	
9,284.3	0.00	0.00	9,253.5	571.0	219.0	2.00	-2.00	0.00	180.00	KOP (Gem 36 State C
10,034.3	90.00	179.54	9,731.0	93.6	222.8	12.00	12.00	23.94	179.54	
14,685.0	90.00	179.54	9,731.0	-4,557.0	260.0	0.00	0.00	0.00	0.00	PBHL (Gem 36 State

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #201H
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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:	#201H	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	20.98	3,100.0	1.6	0.6	-1.5	2.00	2.00	0.00
3,200.0	4.00	20.98	3,199.8	6.5	2.5	-6.1	2.00	2.00	0.00
3,292.9	5.86	20.98	3,292.4	14.0	5.4	-13.1	2.00	2.00	0.00
3,300.0	5.86	20.98	3,299.5	14.6	5.6	-13.7	0.00	0.00	0.00
3,400.0	5.86	20.98	3,398.9	24.2	9.3	-22.7	0.00	0.00	0.00
3,500.0	5.86	20.98	3,498.4	33.7	12.9	-31.6	0.00	0.00	0.00
3,600.0	5.86	20.98	3,597.9	43.2	16.6	-40.5	0.00	0.00	0.00
3,700.0	5.86	20.98	3,697.4	52.8	20.2	-49.5	0.00	0.00	0.00
3,800.0	5.86	20.98	3,796.8	62.3	23.9	-58.4	0.00	0.00	0.00
3,900.0	5.86	20.98	3,896.3	71.8	27.5	-67.3	0.00	0.00	0.00
4,000.0	5.86	20.98	3,995.8	81.4	31.2	-76.2	0.00	0.00	0.00
4,100.0	5.86	20.98	4,095.3	90.9	34.9	-85.2	0.00	0.00	0.00
4,200.0	5.86	20.98	4,194.8	100.4	38.5	-94.1	0.00	0.00	0.00
4,300.0	5.86	20.98	4,294.2	109.9	42.2	-103.0	0.00	0.00	0.00
4,400.0	5.86	20.98	4,393.7	119.5	45.8	-112.0	0.00	0.00	0.00
4,500.0	5.86	20.98	4,493.2	129.0	49.5	-120.9	0.00	0.00	0.00
4,600.0	5.86	20.98	4,592.7	138.5	53.1	-129.8	0.00	0.00	0.00
4,700.0	5.86	20.98	4,692.1	148.1	56.8	-138.8	0.00	0.00	0.00
4,800.0	5.86	20.98	4,791.6	157.6	60.4	-147.7	0.00	0.00	0.00
4,900.0	5.86	20.98	4,891.1	167.1	64.1	-156.6	0.00	0.00	0.00
5,000.0	5.86	20.98	4,990.6	176.7	67.8	-165.6	0.00	0.00	0.00
5,100.0	5.86	20.98	5,090.1	186.2	71.4	-174.5	0.00	0.00	0.00
5,200.0	5.86	20.98	5,189.5	195.7	75.1	-183.4	0.00	0.00	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:	#201H	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	5.86	20.98	5,289.0	205.2	78.7	-192.4	0.00	0.00	0.00
5,400.0	5.86	20.98	5,388.5	214.8	82.4	-201.3	0.00	0.00	0.00
5,500.0	5.86	20.98	5,488.0	224.3	86.0	-210.2	0.00	0.00	0.00
5,600.0	5.86	20.98	5,587.4	233.8	89.7	-219.1	0.00	0.00	0.00
5,700.0	5.86	20.98	5,686.9	243.4	93.3	-228.1	0.00	0.00	0.00
5,800.0	5.86	20.98	5,786.4	252.9	97.0	-237.0	0.00	0.00	0.00
5,900.0	5.86	20.98	5,885.9	262.4	100.6	-245.9	0.00	0.00	0.00
6,000.0	5.86	20.98	5,985.4	272.0	104.3	-254.9	0.00	0.00	0.00
6,100.0	5.86	20.98	6,084.8	281.5	108.0	-263.8	0.00	0.00	0.00
6,200.0	5.86	20.98	6,184.3	291.0	111.6	-272.7	0.00	0.00	0.00
6,300.0	5.86	20.98	6,283.8	300.5	115.3	-281.7	0.00	0.00	0.00
6,400.0	5.86	20.98	6,383.3	310.1	118.9	-290.6	0.00	0.00	0.00
6,500.0	5.86	20.98	6,482.7	319.6	122.6	-299.5	0.00	0.00	0.00
6,600.0	5.86	20.98	6,582.2	329.1	126.2	-308.5	0.00	0.00	0.00
6,700.0	5.86	20.98	6,681.7	338.7	129.9	-317.4	0.00	0.00	0.00
6,800.0	5.86	20.98	6,781.2	348.2	133.5	-326.3	0.00	0.00	0.00
6,900.0	5.86	20.98	6,880.7	357.7	137.2	-335.3	0.00	0.00	0.00
7,000.0	5.86	20.98	6,980.1	367.3	140.9	-344.2	0.00	0.00	0.00
7,100.0	5.86	20.98	7,079.6	376.8	144.5	-353.1	0.00	0.00	0.00
7,200.0	5.86	20.98	7,179.1	386.3	148.2	-362.0	0.00	0.00	0.00
7,300.0	5.86	20.98	7,278.6	395.8	151.8	-371.0	0.00	0.00	0.00
7,400.0	5.86	20.98	7,378.0	405.4	155.5	-379.9	0.00	0.00	0.00
7,500.0	5.86	20.98	7,477.5	414.9	159.1	-388.8	0.00	0.00	0.00
7,600.0	5.86	20.98	7,577.0	424.4	162.8	-397.8	0.00	0.00	0.00
7,700.0	5.86	20.98	7,676.5	434.0	166.4	-406.7	0.00	0.00	0.00
7,800.0	5.86	20.98	7,776.0	443.5	170.1	-415.6	0.00	0.00	0.00
7,900.0	5.86	20.98	7,875.4	453.0	173.8	-424.6	0.00	0.00	0.00
8,000.0	5.86	20.98	7,974.9	462.6	177.4	-433.5	0.00	0.00	0.00
8,100.0	5.86	20.98	8,074.4	472.1	181.1	-442.4	0.00	0.00	0.00
8,200.0	5.86	20.98	8,173.9	481.6	184.7	-451.4	0.00	0.00	0.00
8,300.0	5.86	20.98	8,273.3	491.1	188.4	-460.3	0.00	0.00	0.00
8,400.0	5.86	20.98	8,372.8	500.7	192.0	-469.2	0.00	0.00	0.00
8,500.0	5.86	20.98	8,472.3	510.2	195.7	-478.2	0.00	0.00	0.00
8,600.0	5.86	20.98	8,571.8	519.7	199.3	-487.1	0.00	0.00	0.00
8,700.0	5.86	20.98	8,671.3	529.3	203.0	-496.0	0.00	0.00	0.00
8,800.0	5.86	20.98	8,770.7	538.8	206.6	-505.0	0.00	0.00	0.00
8,900.0	5.86	20.98	8,870.2	548.3	210.3	-513.9	0.00	0.00	0.00
8,991.4	5.86	20.98	8,961.1	557.0	213.6	-522.0	0.00	0.00	0.00
9,000.0	5.69	20.98	8,969.7	557.8	214.0	-522.8	2.00	-2.00	0.00
9,100.0	3.69	20.98	9,069.3	565.5	216.9	-530.0	2.00	-2.00	0.00
9,200.0	1.69	20.98	9,169.2	569.8	218.6	-534.1	2.00	-2.00	0.00
9,284.3	0.00	0.00	9,253.5	571.0	219.0	-535.1	2.00	-2.00	0.00
KOP (Gem 36 State Com #201H)									
9,300.0	1.89	179.54	9,269.2	570.7	219.0	-534.9	12.00	12.00	0.00
9,325.0	4.89	179.54	9,294.2	569.3	219.0	-533.4	12.00	12.00	0.00
9,350.0	7.89	179.54	9,319.0	566.5	219.0	-530.7	12.00	12.00	0.00
9,375.0	10.89	179.54	9,343.7	562.4	219.1	-526.6	12.00	12.00	0.00
9,400.0	13.89	179.54	9,368.1	557.0	219.1	-521.3	12.00	12.00	0.00
9,425.0	16.89	179.54	9,392.2	550.4	219.2	-514.7	12.00	12.00	0.00
9,450.0	19.89	179.54	9,415.9	542.5	219.2	-506.9	12.00	12.00	0.00
9,475.0	22.89	179.54	9,439.2	533.4	219.3	-497.9	12.00	12.00	0.00
9,500.0	25.89	179.54	9,462.0	523.1	219.4	-487.6	12.00	12.00	0.00
9,525.0	28.89	179.54	9,484.1	511.6	219.5	-476.2	12.00	12.00	0.00

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Site:	Gem 36 State Com	North Reference:	Grid
Well:	#201H	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)
9,550.0	31.89	179.54	9,505.7	499.0	219.6	-463.7	12.00	12.00	0.00
9,575.0	34.89	179.54	9,526.6	485.2	219.7	-450.1	12.00	12.00	0.00
9,600.0	37.89	179.54	9,546.7	470.4	219.8	-435.4	12.00	12.00	0.00
9,625.0	40.89	179.54	9,566.0	454.5	219.9	-419.6	12.00	12.00	0.00
9,650.0	43.89	179.54	9,584.5	437.7	220.1	-402.9	12.00	12.00	0.00
9,675.0	46.89	179.54	9,602.0	419.9	220.2	-385.3	12.00	12.00	0.00
9,685.0	48.09	179.54	9,608.8	412.5	220.3	-378.0	12.00	12.00	0.00
FTP (Gem 36 State Com #201H)									
9,700.0	49.89	179.54	9,618.6	401.2	220.4	-366.8	12.00	12.00	0.00
9,725.0	52.89	179.54	9,634.2	381.6	220.5	-347.4	12.00	12.00	0.00
9,750.0	55.89	179.54	9,648.8	361.3	220.7	-327.2	12.00	12.00	0.00
9,775.0	58.89	179.54	9,662.3	340.3	220.8	-306.4	12.00	12.00	0.00
9,800.0	61.89	179.54	9,674.6	318.5	221.0	-284.8	12.00	12.00	0.00
9,825.0	64.89	179.54	9,685.8	296.2	221.2	-262.7	12.00	12.00	0.00
9,850.0	67.89	179.54	9,695.8	273.3	221.4	-240.0	12.00	12.00	0.00
9,875.0	70.89	179.54	9,704.6	249.9	221.6	-216.8	12.00	12.00	0.00
9,900.0	73.89	179.54	9,712.2	226.1	221.8	-193.1	12.00	12.00	0.00
9,925.0	76.89	179.54	9,718.5	201.9	222.0	-169.2	12.00	12.00	0.00
9,950.0	79.89	179.54	9,723.5	177.4	222.1	-144.9	12.00	12.00	0.00
9,975.0	82.89	179.54	9,727.3	152.7	222.3	-120.4	12.00	12.00	0.00
10,000.0	85.89	179.54	9,729.7	127.8	222.5	-95.7	12.00	12.00	0.00
10,025.0	88.89	179.54	9,730.9	102.8	222.7	-71.0	12.00	12.00	0.00
10,034.3	90.00	179.54	9,731.0	93.6	222.8	-61.8	12.00	12.00	0.00
10,100.0	90.00	179.54	9,731.0	27.8	223.3	3.4	0.00	0.00	0.00
10,200.0	90.00	179.54	9,731.0	-72.2	224.1	102.5	0.00	0.00	0.00
10,300.0	90.00	179.54	9,731.0	-172.2	224.9	201.7	0.00	0.00	0.00
10,400.0	90.00	179.54	9,731.0	-272.2	225.7	300.8	0.00	0.00	0.00
10,500.0	90.00	179.54	9,731.0	-372.2	226.5	400.0	0.00	0.00	0.00
10,600.0	90.00	179.54	9,731.0	-472.2	227.3	499.1	0.00	0.00	0.00
10,700.0	90.00	179.54	9,731.0	-572.1	228.1	598.2	0.00	0.00	0.00
10,800.0	90.00	179.54	9,731.0	-672.1	228.9	697.4	0.00	0.00	0.00
10,900.0	90.00	179.54	9,731.0	-772.1	229.7	796.5	0.00	0.00	0.00
11,000.0	90.00	179.54	9,731.0	-872.1	230.5	895.7	0.00	0.00	0.00
11,100.0	90.00	179.54	9,731.0	-972.1	231.3	994.8	0.00	0.00	0.00
11,200.0	90.00	179.54	9,731.0	-1,072.1	232.1	1,094.0	0.00	0.00	0.00
11,300.0	90.00	179.54	9,731.0	-1,172.1	232.9	1,193.1	0.00	0.00	0.00
11,400.0	90.00	179.54	9,731.0	-1,272.1	233.7	1,292.2	0.00	0.00	0.00
11,500.0	90.00	179.54	9,731.0	-1,372.1	234.5	1,391.4	0.00	0.00	0.00
11,600.0	90.00	179.54	9,731.0	-1,472.1	235.3	1,490.5	0.00	0.00	0.00
11,700.0	90.00	179.54	9,731.0	-1,572.1	236.1	1,589.7	0.00	0.00	0.00
11,800.0	90.00	179.54	9,731.0	-1,672.1	236.9	1,688.8	0.00	0.00	0.00
11,900.0	90.00	179.54	9,731.0	-1,772.1	237.7	1,788.0	0.00	0.00	0.00
12,000.0	90.00	179.54	9,731.0	-1,872.1	238.5	1,887.1	0.00	0.00	0.00
12,100.0	90.00	179.54	9,731.0	-1,972.1	239.3	1,986.2	0.00	0.00	0.00
12,200.0	90.00	179.54	9,731.0	-2,072.1	240.1	2,085.4	0.00	0.00	0.00
12,300.0	90.00	179.54	9,731.0	-2,172.1	240.9	2,184.5	0.00	0.00	0.00
12,400.0	90.00	179.54	9,731.0	-2,272.1	241.7	2,283.7	0.00	0.00	0.00
12,500.0	90.00	179.54	9,731.0	-2,372.1	242.5	2,382.8	0.00	0.00	0.00
12,600.0	90.00	179.54	9,731.0	-2,472.1	243.3	2,482.0	0.00	0.00	0.00
12,700.0	90.00	179.54	9,731.0	-2,572.1	244.1	2,581.1	0.00	0.00	0.00
12,800.0	90.00	179.54	9,731.0	-2,672.1	244.9	2,680.2	0.00	0.00	0.00
12,900.0	90.00	179.54	9,731.0	-2,772.1	245.7	2,779.4	0.00	0.00	0.00
13,000.0	90.00	179.54	9,731.0	-2,872.1	246.5	2,878.5	0.00	0.00	0.00
13,100.0	90.00	179.54	9,731.0	-2,972.1	247.3	2,977.7	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #201H
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:	#201H	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	-3,072.1	248.1	3,076.8	0.00	0.00	0.00
13,300.0	90.00	179.54	9,731.0	-3,172.1	248.9	3,176.0	0.00	0.00	0.00
13,400.0	90.00	179.54	9,731.0	-3,272.1	249.7	3,275.1	0.00	0.00	0.00
13,500.0	90.00	179.54	9,731.0	-3,372.1	250.5	3,374.2	0.00	0.00	0.00
13,600.0	90.00	179.54	9,731.0	-3,472.1	251.3	3,473.4	0.00	0.00	0.00
13,700.0	90.00	179.54	9,731.0	-3,572.1	252.1	3,572.5	0.00	0.00	0.00
13,800.0	90.00	179.54	9,731.0	-3,672.0	252.9	3,671.7	0.00	0.00	0.00
13,900.0	90.00	179.54	9,731.0	-3,772.0	253.7	3,770.8	0.00	0.00	0.00
14,000.0	90.00	179.54	9,731.0	-3,872.0	254.5	3,869.9	0.00	0.00	0.00
14,100.0	90.00	179.54	9,731.0	-3,972.0	255.3	3,969.1	0.00	0.00	0.00
14,200.0	90.00	179.54	9,731.0	-4,072.0	256.1	4,068.2	0.00	0.00	0.00
14,300.0	90.00	179.54	9,731.0	-4,172.0	256.9	4,167.4	0.00	0.00	0.00
14,400.0	90.00	179.54	9,731.0	-4,272.0	257.7	4,266.5	0.00	0.00	0.00
14,500.0	90.00	179.54	9,731.0	-4,372.0	258.5	4,365.7	0.00	0.00	0.00
14,600.0	90.00	179.54	9,731.0	-4,472.0	259.3	4,464.8	0.00	0.00	0.00
14,685.0	90.00	179.54	9,731.0	-4,557.0	260.0	4,549.1	0.00	0.00	0.00

PBHL (Gem 36 State Com #201H)

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	571.0	219.0	398,717.00	761,304.00	32° 5' 38.979 N	103° 37' 22.864 W
PBHL (Gem 36 State Co - plan hits target center - Point	0.00	0.01	9,731.0	-4,557.0	260.0	393,589.00	761,345.00	32° 4' 48.233 N	103° 37' 22.780 W
FTP (Gem 36 State Cor - plan misses target center by 163.4usft at 9685.0usft MD (9608.8 TVD, 412.5 N, 220.3 E) - Point	0.00	0.00	9,731.0	521.0	219.0	398,667.00	761,304.00	32° 5' 38.485 N	103° 37' 22.868 W