eog resources

Lea County, NM (NAD 83 NME)

Gem 36 State Com #5H

HP 620

Plan #1

Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.61°

Magnetic Field
Strength: 47861.3snT
Dip Angle: 59.92°
Date: 4/27/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.61°
To convert a Magnetic Direction to a True Direction, Add 6.99° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

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: #5H

Ground Level: 3369.0
KB = 25' @ 3394.0usft (HP 620)

Northing	Easting	Latitude	Longitude
393686.00	759213.00	32° 4' 49.331 N	103° 37' 47.662 W

SECTION DETAILS

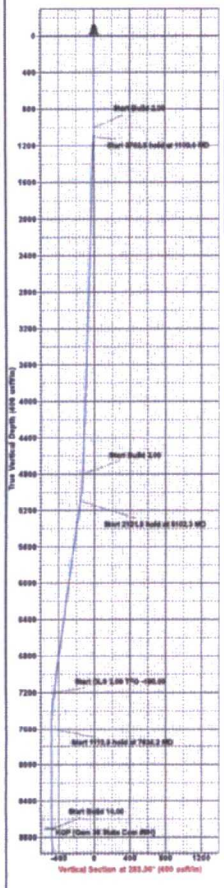
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0		
3	1100.0	2.00	108.00	1100.0	-0.6	1.7	2.00	108.00	-0.3		
4	4802.3	2.00	108.00	4800.0	-40.5	124.5	0.00	0.00	-25.1		
5	5102.3	8.00	108.00	5098.7	-48.5	148.4	2.00	0.00	-30.1		
6	7224.2	8.00	108.00	7200.0	-138.8	430.3	0.00	0.00	-86.6		
7	7624.2	0.00	0.00	7598.7	-148.4	456.8	2.00	-180.00	-92.0		
8	8736.6	0.00	0.00	8711.0	-148.4	456.8	0.00	0.00	-92.0		
9	9636.6	90.00	7.78	9284.0	419.3	534.3	10.00	7.78	480.9		
10	9876.4	90.00	0.62	9284.0	660.3	561.8	3.00	-90.00	722.3		
11	14062.2	90.00	0.62	9284.0	4834.0	590.0	0.00	0.00	4869.9	PBHL (Gem 36 State Com #5H)	

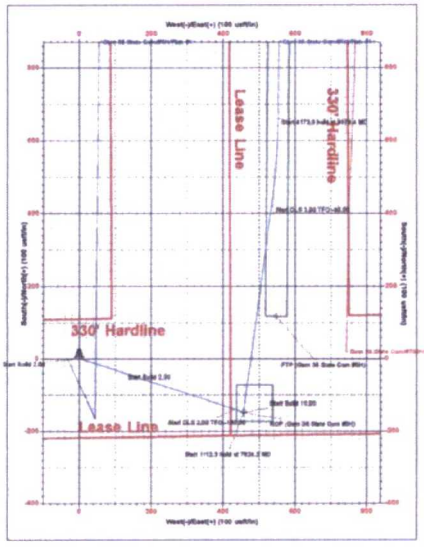
CASING DETAILS

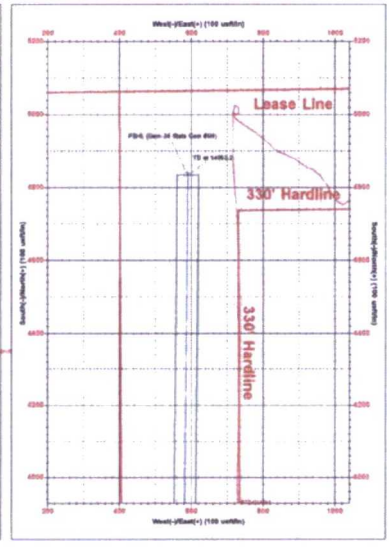
No casing data is available

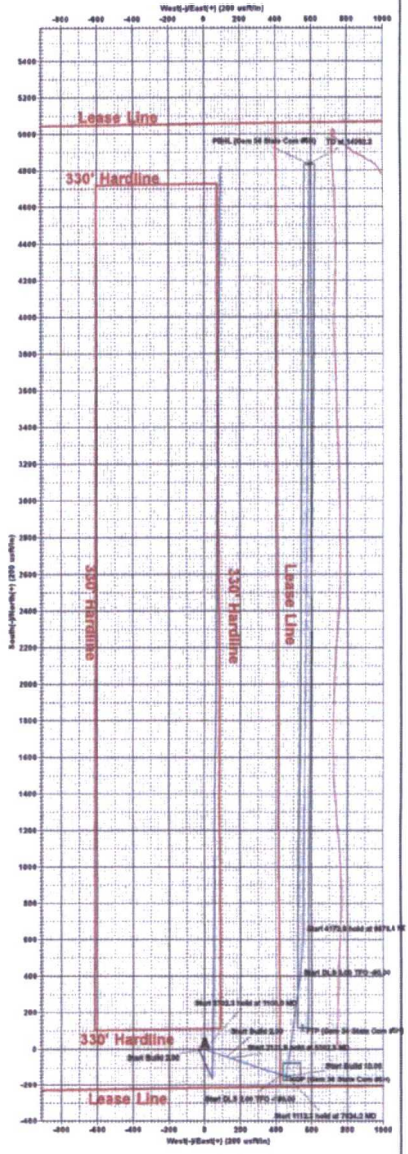
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

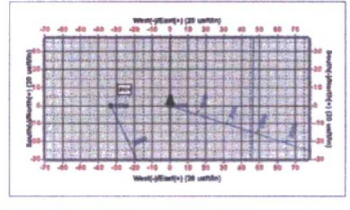
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Gem 36 State Com #5H)	9284.0	4834.0	590.0	398520.00	759803.00
FTP (Gem 36 State Com #5H)	9284.0	118.0	547.0	393804.00	759760.00
KOP (Gem 36 State Com #5H)	8711.0	-148.4	456.8	393537.58	759669.78

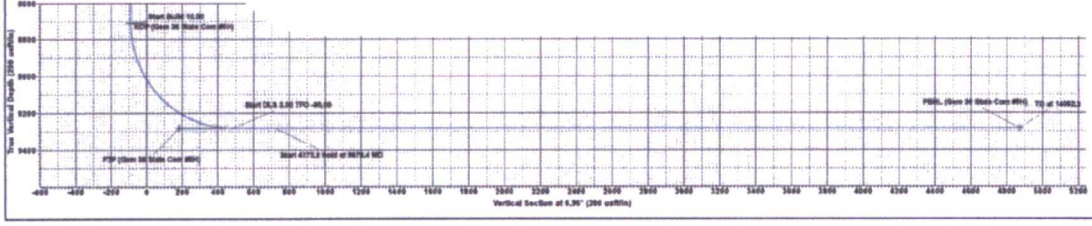


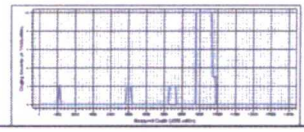












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Gem 36 State Com
#5H
074041
OH

Plan: Plan #1

Standard Planning Report

16 January, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #5H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3394.0usft (HP 620)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3394.0usft (HP 620)
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	#5H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	393,686.00 usft	**Latitude:**	32° 4' 49.331 N
	+E/-W	0.0 usft	**Easting:**	759,213.00 usft	**Longitude:**	103° 37' 47.552 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,369.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	4/27/2017	6.99	59.92	47,861.26034412

Design	Plan #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	6.96

Plan Survey Tool Program **Date** 1/16/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	14,051.8	Plan #1 (OH)	MWD	
				MWD - Standard	

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #5H
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Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	
1,100.0	2.00	108.00	1,100.0	-0.5	1.7	2.00	2.00	0.00	108.00	
4,802.3	2.00	108.00	4,800.0	-40.5	124.5	0.00	0.00	0.00	0.00	
5,102.3	8.00	108.00	5,098.7	-48.5	149.4	2.00	2.00	0.00	0.00	
7,224.2	8.00	108.00	7,200.0	-139.8	430.3	0.00	0.00	0.00	0.00	
7,624.2	0.00	0.00	7,598.7	-148.4	456.8	2.00	-2.00	-27.00	-180.00	
8,736.5	0.00	0.00	8,711.0	-148.4	456.8	0.00	0.00	0.00	0.00	
9,636.5	90.00	7.78	9,284.0	419.3	534.3	10.00	10.00	0.00	7.78	
9,878.4	90.00	0.52	9,284.0	660.3	551.8	3.00	0.00	-3.00	-90.00	
14,052.2	90.00	0.52	9,284.0	4,834.0	590.0	0.00	0.00	0.00	0.00	PBHL (Gem 36 State

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #5H
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Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3394.0usft (HP 620)
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	2.00	108.00	1,100.0	-0.5	1.7	-0.3	2.00	2.00	0.00
1,200.0	2.00	108.00	1,199.9	-1.6	5.0	-1.0	0.00	0.00	0.00
1,300.0	2.00	108.00	1,299.9	-2.7	8.3	-1.7	0.00	0.00	0.00
1,400.0	2.00	108.00	1,399.8	-3.8	11.6	-2.3	0.00	0.00	0.00
1,500.0	2.00	108.00	1,499.7	-4.9	14.9	-3.0	0.00	0.00	0.00
1,600.0	2.00	108.00	1,599.7	-5.9	18.3	-3.7	0.00	0.00	0.00
1,700.0	2.00	108.00	1,699.6	-7.0	21.6	-4.3	0.00	0.00	0.00
1,800.0	2.00	108.00	1,799.6	-8.1	24.9	-5.0	0.00	0.00	0.00
1,900.0	2.00	108.00	1,899.5	-9.2	28.2	-5.7	0.00	0.00	0.00
2,000.0	2.00	108.00	1,999.4	-10.2	31.5	-6.3	0.00	0.00	0.00
2,100.0	2.00	108.00	2,099.4	-11.3	34.9	-7.0	0.00	0.00	0.00
2,200.0	2.00	108.00	2,199.3	-12.4	38.2	-7.7	0.00	0.00	0.00
2,300.0	2.00	108.00	2,299.2	-13.5	41.5	-8.4	0.00	0.00	0.00
2,400.0	2.00	108.00	2,399.2	-14.6	44.8	-9.0	0.00	0.00	0.00
2,500.0	2.00	108.00	2,499.1	-15.6	48.1	-9.7	0.00	0.00	0.00
2,600.0	2.00	108.00	2,599.1	-16.7	51.4	-10.4	0.00	0.00	0.00
2,700.0	2.00	108.00	2,699.0	-17.8	54.8	-11.0	0.00	0.00	0.00
2,800.0	2.00	108.00	2,798.9	-18.9	58.1	-11.7	0.00	0.00	0.00
2,900.0	2.00	108.00	2,898.9	-20.0	61.4	-12.4	0.00	0.00	0.00
3,000.0	2.00	108.00	2,998.8	-21.0	64.7	-13.0	0.00	0.00	0.00
3,100.0	2.00	108.00	3,098.8	-22.1	68.0	-13.7	0.00	0.00	0.00
3,200.0	2.00	108.00	3,198.7	-23.2	71.4	-14.4	0.00	0.00	0.00
3,300.0	2.00	108.00	3,298.6	-24.3	74.7	-15.0	0.00	0.00	0.00
3,400.0	2.00	108.00	3,398.6	-25.3	78.0	-15.7	0.00	0.00	0.00
3,500.0	2.00	108.00	3,498.5	-26.4	81.3	-16.4	0.00	0.00	0.00
3,600.0	2.00	108.00	3,598.5	-27.5	84.6	-17.0	0.00	0.00	0.00
3,700.0	2.00	108.00	3,698.4	-28.6	88.0	-17.7	0.00	0.00	0.00
3,800.0	2.00	108.00	3,798.3	-29.7	91.3	-18.4	0.00	0.00	0.00
3,900.0	2.00	108.00	3,898.3	-30.7	94.6	-19.0	0.00	0.00	0.00
4,000.0	2.00	108.00	3,998.2	-31.8	97.9	-19.7	0.00	0.00	0.00
4,100.0	2.00	108.00	4,098.2	-32.9	101.2	-20.4	0.00	0.00	0.00
4,200.0	2.00	108.00	4,198.1	-34.0	104.6	-21.1	0.00	0.00	0.00
4,300.0	2.00	108.00	4,298.0	-35.0	107.9	-21.7	0.00	0.00	0.00
4,400.0	2.00	108.00	4,398.0	-36.1	111.2	-22.4	0.00	0.00	0.00
4,500.0	2.00	108.00	4,497.9	-37.2	114.5	-23.1	0.00	0.00	0.00
4,600.0	2.00	108.00	4,597.8	-38.3	117.8	-23.7	0.00	0.00	0.00
4,700.0	2.00	108.00	4,697.8	-39.4	121.1	-24.4	0.00	0.00	0.00
4,802.3	2.00	108.00	4,800.0	-40.5	124.5	-25.1	0.00	0.00	0.00
4,900.0	3.95	108.00	4,897.6	-42.0	129.4	-26.1	2.00	2.00	0.00
5,000.0	5.95	108.00	4,997.2	-44.7	137.6	-27.7	2.00	2.00	0.00
5,102.3	8.00	108.00	5,098.7	-48.5	149.4	-30.1	2.00	2.00	0.00
5,200.0	8.00	108.00	5,195.5	-52.7	162.3	-32.7	0.00	0.00	0.00
5,300.0	8.00	108.00	5,294.5	-57.0	175.6	-35.4	0.00	0.00	0.00

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Well:	#5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
5,400.0	8.00	108.00	5,393.5	-61.3	188.8	-38.0	0.00	0.00	0.00
5,500.0	8.00	108.00	5,492.6	-65.6	202.0	-40.7	0.00	0.00	0.00
5,600.0	8.00	108.00	5,591.6	-69.9	215.3	-43.4	0.00	0.00	0.00
5,700.0	8.00	108.00	5,690.6	-74.2	228.5	-46.0	0.00	0.00	0.00
5,800.0	8.00	108.00	5,789.7	-78.5	241.8	-48.7	0.00	0.00	0.00
5,900.0	8.00	108.00	5,888.7	-82.9	255.0	-51.3	0.00	0.00	0.00
6,000.0	8.00	108.00	5,987.7	-87.2	268.2	-54.0	0.00	0.00	0.00
6,100.0	8.00	108.00	6,086.7	-91.5	281.5	-56.7	0.00	0.00	0.00
6,200.0	8.00	108.00	6,185.8	-95.8	294.7	-59.3	0.00	0.00	0.00
6,300.0	8.00	108.00	6,284.8	-100.1	307.9	-62.0	0.00	0.00	0.00
6,400.0	8.00	108.00	6,383.8	-104.4	321.2	-64.7	0.00	0.00	0.00
6,500.0	8.00	108.00	6,482.8	-108.7	334.4	-67.3	0.00	0.00	0.00
6,600.0	8.00	108.00	6,581.9	-113.0	347.6	-70.0	0.00	0.00	0.00
6,700.0	8.00	108.00	6,680.9	-117.3	360.9	-72.7	0.00	0.00	0.00
6,800.0	8.00	108.00	6,779.9	-121.6	374.1	-75.3	0.00	0.00	0.00
6,900.0	8.00	108.00	6,879.0	-125.9	387.3	-78.0	0.00	0.00	0.00
7,000.0	8.00	108.00	6,978.0	-130.2	400.6	-80.7	0.00	0.00	0.00
7,100.0	8.00	108.00	7,077.0	-134.5	413.8	-83.3	0.00	0.00	0.00
7,200.0	8.00	108.00	7,176.0	-138.8	427.1	-86.0	0.00	0.00	0.00
7,224.2	8.00	108.00	7,200.0	-139.8	430.3	-86.6	0.00	0.00	0.00
7,300.0	6.48	108.00	7,275.2	-142.8	439.3	-88.5	2.00	-2.00	0.00
7,400.0	4.48	108.00	7,374.7	-145.7	448.4	-90.3	2.00	-2.00	0.00
7,500.0	2.48	108.00	7,474.5	-147.6	454.2	-91.5	2.00	-2.00	0.00
7,600.0	0.48	108.00	7,574.5	-148.4	456.7	-92.0	2.00	-2.00	0.00
7,624.2	0.00	0.00	7,598.7	-148.4	456.8	-92.0	2.00	-2.00	-446.20
7,700.0	0.00	0.00	7,674.5	-148.4	456.8	-92.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,774.5	-148.4	456.8	-92.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,874.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,974.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,074.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,174.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,274.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,374.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,474.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,574.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,674.5	-148.4	456.8	-92.0	0.00	0.00	0.00
8,736.5	0.00	0.00	8,711.0	-148.4	456.8	-92.0	0.00	0.00	0.00
8,750.0	1.35	7.78	8,724.5	-148.3	456.8	-91.8	10.00	10.00	57.64
8,800.0	6.35	7.78	8,774.4	-144.9	457.3	-88.5	10.00	10.00	0.00
8,850.0	11.35	7.78	8,823.8	-137.3	458.3	-80.8	10.00	10.00	0.00
8,900.0	16.35	7.78	8,872.3	-125.5	459.9	-68.8	10.00	10.00	0.00
8,950.0	21.35	7.78	8,919.6	-109.5	462.1	-52.7	10.00	10.00	0.00
9,000.0	26.35	7.78	8,965.3	-89.4	464.8	-32.5	10.00	10.00	0.00
9,050.0	31.35	7.78	9,009.1	-65.5	468.1	-8.3	10.00	10.00	0.00
9,100.0	36.35	7.78	9,050.6	-38.0	471.9	19.5	10.00	10.00	0.00
9,150.0	41.35	7.78	9,089.5	-6.9	476.1	50.8	10.00	10.00	0.00
9,200.0	46.35	7.78	9,125.6	27.4	480.8	85.5	10.00	10.00	0.00
9,250.0	51.35	7.78	9,158.5	64.7	485.9	123.1	10.00	10.00	0.00
9,300.0	56.35	7.78	9,188.0	104.7	491.4	163.5	10.00	10.00	0.00
9,350.0	61.35	7.78	9,213.8	147.1	497.1	206.2	10.00	10.00	0.00
9,400.0	66.35	7.78	9,235.8	191.5	503.2	251.1	10.00	10.00	0.00
9,450.0	71.35	7.78	9,253.9	237.7	509.5	297.7	10.00	10.00	0.00
9,500.0	76.35	7.78	9,267.8	285.3	516.0	345.7	10.00	10.00	0.00
9,550.0	81.35	7.78	9,277.4	333.9	522.7	394.7	10.00	10.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #5H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3394.0usft (HP 620)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3394.0usft (HP 620)
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
9,600.0	86.35	7.78	9,282.8	383.1	529.4	444.4	10.00	10.00	0.00
9,636.5	90.00	7.78	9,284.0	419.3	534.3	480.9	10.00	10.00	0.00
9,700.0	90.00	5.88	9,284.0	482.3	541.9	544.4	3.00	0.00	-3.00
9,800.0	90.00	2.88	9,284.0	582.0	549.5	644.3	3.00	0.00	-3.00
9,878.4	90.00	0.52	9,284.0	660.3	551.8	722.3	3.00	0.00	-3.00
9,900.0	90.00	0.52	9,284.0	682.0	552.0	743.8	0.00	0.00	0.00
10,000.0	90.00	0.52	9,284.0	782.0	552.9	843.2	0.00	0.00	0.00
10,100.0	90.00	0.52	9,284.0	882.0	553.9	942.6	0.00	0.00	0.00
10,200.0	90.00	0.52	9,284.0	982.0	554.8	1,041.9	0.00	0.00	0.00
10,300.0	90.00	0.52	9,284.0	1,082.0	555.7	1,141.3	0.00	0.00	0.00
10,400.0	90.00	0.52	9,284.0	1,181.9	556.6	1,240.7	0.00	0.00	0.00
10,500.0	90.00	0.52	9,284.0	1,281.9	557.5	1,340.0	0.00	0.00	0.00
10,600.0	90.00	0.52	9,284.0	1,381.9	558.4	1,439.4	0.00	0.00	0.00
10,700.0	90.00	0.52	9,284.0	1,481.9	559.3	1,538.8	0.00	0.00	0.00
10,800.0	90.00	0.52	9,284.0	1,581.9	560.3	1,638.2	0.00	0.00	0.00
10,900.0	90.00	0.52	9,284.0	1,681.9	561.2	1,737.5	0.00	0.00	0.00
11,000.0	90.00	0.52	9,284.0	1,781.9	562.1	1,836.9	0.00	0.00	0.00
11,100.0	90.00	0.52	9,284.0	1,881.9	563.0	1,936.3	0.00	0.00	0.00
11,200.0	90.00	0.52	9,284.0	1,981.9	563.9	2,035.6	0.00	0.00	0.00
11,300.0	90.00	0.52	9,284.0	2,081.9	564.8	2,135.0	0.00	0.00	0.00
11,400.0	90.00	0.52	9,284.0	2,181.9	565.8	2,234.4	0.00	0.00	0.00
11,500.0	90.00	0.52	9,284.0	2,281.9	566.7	2,333.7	0.00	0.00	0.00
11,600.0	90.00	0.52	9,284.0	2,381.9	567.6	2,433.1	0.00	0.00	0.00
11,700.0	90.00	0.52	9,284.0	2,481.9	568.5	2,532.5	0.00	0.00	0.00
11,800.0	90.00	0.52	9,284.0	2,581.9	569.4	2,631.9	0.00	0.00	0.00
11,900.0	90.00	0.52	9,284.0	2,681.9	570.3	2,731.2	0.00	0.00	0.00
12,000.0	90.00	0.52	9,284.0	2,781.9	571.2	2,830.6	0.00	0.00	0.00
12,100.0	90.00	0.52	9,284.0	2,881.9	572.2	2,930.0	0.00	0.00	0.00
12,200.0	90.00	0.52	9,284.0	2,981.9	573.1	3,029.3	0.00	0.00	0.00
12,300.0	90.00	0.52	9,284.0	3,081.9	574.0	3,128.7	0.00	0.00	0.00
12,400.0	90.00	0.52	9,284.0	3,181.9	574.9	3,228.1	0.00	0.00	0.00
12,500.0	90.00	0.52	9,284.0	3,281.9	575.8	3,327.4	0.00	0.00	0.00
12,600.0	90.00	0.52	9,284.0	3,381.9	576.7	3,426.8	0.00	0.00	0.00
12,700.0	90.00	0.52	9,284.0	3,481.9	577.6	3,526.2	0.00	0.00	0.00
12,800.0	90.00	0.52	9,284.0	3,581.8	578.6	3,625.6	0.00	0.00	0.00
12,900.0	90.00	0.52	9,284.0	3,681.8	579.5	3,724.9	0.00	0.00	0.00
13,000.0	90.00	0.52	9,284.0	3,781.8	580.4	3,824.3	0.00	0.00	0.00
13,100.0	90.00	0.52	9,284.0	3,881.8	581.3	3,923.7	0.00	0.00	0.00
13,200.0	90.00	0.52	9,284.0	3,981.8	582.2	4,023.0	0.00	0.00	0.00
13,300.0	90.00	0.52	9,284.0	4,081.8	583.1	4,122.4	0.00	0.00	0.00
13,400.0	90.00	0.52	9,284.0	4,181.8	584.0	4,221.8	0.00	0.00	0.00
13,500.0	90.00	0.52	9,284.0	4,281.8	585.0	4,321.1	0.00	0.00	0.00
13,600.0	90.00	0.52	9,284.0	4,381.8	585.9	4,420.5	0.00	0.00	0.00
13,700.0	90.00	0.52	9,284.0	4,481.8	586.8	4,519.9	0.00	0.00	0.00
13,800.0	90.00	0.52	9,284.0	4,581.8	587.7	4,619.3	0.00	0.00	0.00
13,900.0	90.00	0.52	9,284.0	4,681.8	588.6	4,718.6	0.00	0.00	0.00
14,000.0	90.00	0.52	9,284.0	4,781.8	589.5	4,818.0	0.00	0.00	0.00
14,052.2	90.00	0.52	9,284.0	4,834.0	590.0	4,869.9	0.00	0.00	0.00

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Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3394.0usft (HP 620)
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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
KOP (Gem 36 State Cor	0.00	0.00	8,711.0	-148.4	456.8	393,537.58	759,669.77	32° 4' 47.832 N	103° 37' 42.254 W
- plan hits target center									
- Polygon									
Point 1			8,711.0	-25.0	-20.0	393,512.58	759,649.77		
Point 2			8,711.0	-25.0	80.0	393,512.58	759,749.77		
Point 3			8,711.0	75.0	80.0	393,612.58	759,749.77		
Point 4			8,711.0	75.0	-20.0	393,612.58	759,649.77		
PBHL (Gem 36 State Cc	90.00	0.52	9,284.0	4,834.0	590.0	398,520.00	759,803.00	32° 5' 37.128 N	103° 37' 40.327 W
- plan hits target center									
- Rectangle (sides W60.0 H0.0 D4,716.0)									
FTP (Gem 36 State Cor	0.00	0.01	9,284.0	118.0	547.0	393,804.00	759,760.00	32° 4' 50.463 N	103° 37' 41.185 W
- plan misses target center by 89.9usft at 9361.1usft MD (9219.0 TVD, 156.8 N, 498.5 E)									
- Point									