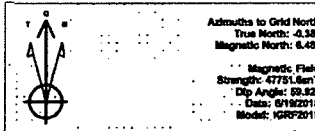




Lea County, NM (NAD 83 NME)

Gem 36 State Com #501H

Plan #0.2



To convert a Magnetic Direction to a Grid Direction, Add 0.48°
To convert a Magnetic Direction to a True Direction, Add 0.90° East
To convert a True Direction to a Grid Direction, Subtract 0.35°

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: 8501H

KB = 25 @ 3462.0usft 3435.0
Northing 288172.00 Easting 782000.00 Latitude 32° 5' 33.541 N Longitude 103° 27' 14.816 W

SECTION DETAILS

Sec	SID	Inc	Act	TVD	+N/-S	+E/-W	Dog	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	6028.0	0.00	0.00	6028.0	0.0	0.0	0.00	0.00	0.0		
3	4676.2	0.02	3.34	4674.0	36.6	2.3	2.00	3.34	-33.4		
4	7355.0	0.52	3.34	7326.0	517.1	30.3	0.00	0.00	-917.4		
5	7854.2	0.00	0.00	7854.0	508.5	32.5	2.00	180.00	-490.9		
6	10320.2	0.00	0.00	10319.0	336.5	32.5	0.00	0.00	-458.9		
7	10781.0	61.01	207.23	10629.3	-433.3	-21.1	12.00	207.23	-432.0		
8	11150.0	90.00	179.54	10812.0	-68.9	-42.3	12.12	-34.83	-65.7		
9	13685.0	90.00	179.54	10812.0	-6448.0	-68.0	0.00	0.00	-6448.4		

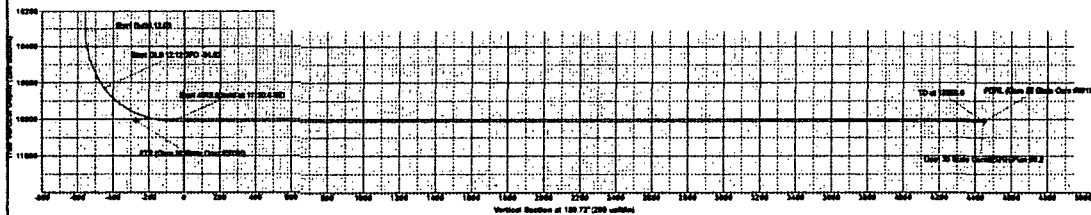
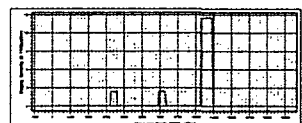
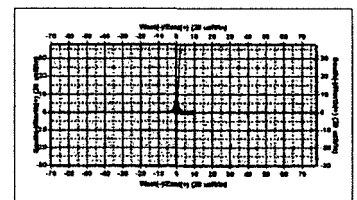
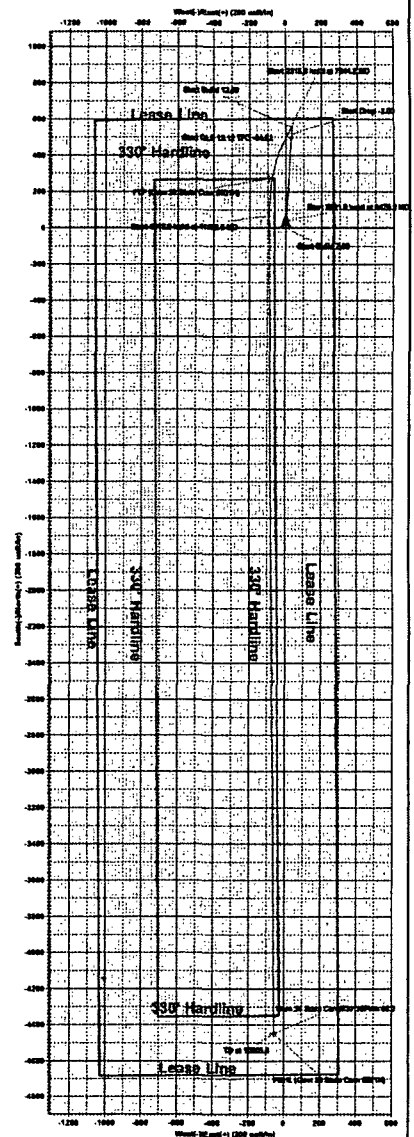
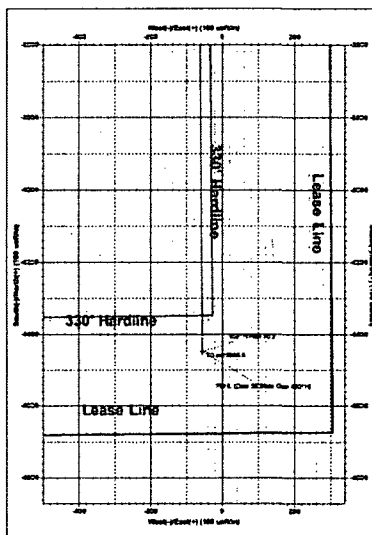
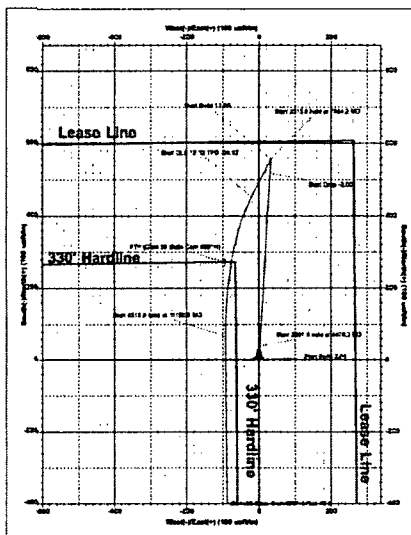
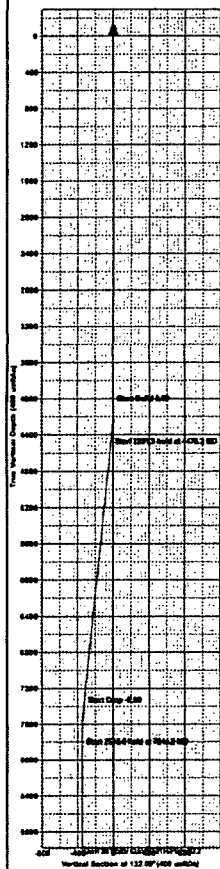
PDH (Gem 36 State Com #501H)

CASING DETAILS

No casing data available

WELLBORE TARGIT DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PDH (Gem 36 State Com #501H)	10812.0	-6448.0	-68.0	282734.00	781944.00
FTP (Gem 36 State Com #501H)	10812.0	272.0	-64.0	286464.00	781908.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#501H

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: #501H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25 @ 3460.0usft
MD Reference: KB = 25 @ 3460.0usft
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
From:	Map	Easting:	759,213.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 4' 49.331 N
		Longitude:	103° 37' 47.552 W
		Grid Convergence:	0.37 °

Well	#501H		
Well Position	+N/-S	4,486.0 usft	Northing: 398,172.00 usft
	+E/-W	2,787.0 usft	Easting: 762,000.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 5' 33.541 N
			Longitude: 103° 37' 14.815 W
			Ground Level: 3,435.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	6/19/2018	(°)
			6.86
			Dip Angle
			(°)
			59.92
			Field Strength
			(nT)
			47,751.55573032

Design	Plan #0.2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			180.72

Plan Survey Tool Program	Date 6/25/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	15,665.6 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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,476.2	9.52	3.34	4,474.0	39.4	2.3	2.00	2.00	0.00	3.34	
7,368.0	9.52	3.34	7,326.0	517.1	30.2	0.00	0.00	0.00	0.00	
7,844.2	0.00	0.00	7,800.0	556.5	32.5	2.00	-2.00	0.00	180.00	
10,359.2	0.00	0.00	10,315.0	556.5	32.5	0.00	0.00	0.00	0.00	
10,701.0	41.01	207.23	10,628.3	452.3	-21.1	12.00	12.00	0.00	207.23	
11,150.6	90.00	179.54	10,812.0	66.9	-92.2	12.12	10.90	-6.16	-34.82	
15,665.6	90.00	179.54	10,812.0	-4,448.0	-56.0	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: #501H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #501H
 TVD Reference: KB = 25 @ 3460.0usft
 MD Reference: KB = 25 @ 3460.0usft
 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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	2.00	3.34	4,100.0	1.7	0.1	-1.7	2.00	2.00	0.00
4,200.0	4.00	3.34	4,199.8	7.0	0.4	-7.0	2.00	2.00	0.00
4,300.0	6.00	3.34	4,299.5	15.7	0.9	-15.7	2.00	2.00	0.00
4,400.0	8.00	3.34	4,398.7	27.8	1.6	-27.9	2.00	2.00	0.00
4,476.2	9.52	3.34	4,474.0	39.4	2.3	-39.4	2.00	2.00	0.00
4,500.0	9.52	3.34	4,497.5	43.4	2.5	-43.4	0.00	0.00	0.00
4,600.0	9.52	3.34	4,596.1	59.9	3.5	-59.9	0.00	0.00	0.00
4,700.0	9.52	3.34	4,694.7	76.4	4.5	-76.4	0.00	0.00	0.00
4,800.0	9.52	3.34	4,793.3	92.9	5.4	-93.0	0.00	0.00	0.00
4,900.0	9.52	3.34	4,892.0	109.4	6.4	-109.5	0.00	0.00	0.00
5,000.0	9.52	3.34	4,990.6	125.9	7.4	-126.0	0.00	0.00	0.00
5,100.0	9.52	3.34	5,089.2	142.5	8.3	-142.5	0.00	0.00	0.00
5,200.0	9.52	3.34	5,187.8	159.0	9.3	-159.1	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: #501H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #501H
 TVD Reference: KB = 25 @ 3460.0usft
 MD Reference: KB = 25 @ 3460.0usft
 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	9.52	3.34	5,286.5	175.5	10.2	-175.6	0.00	0.00	0.00	
5,400.0	9.52	3.34	5,385.1	192.0	11.2	-192.1	0.00	0.00	0.00	
5,500.0	9.52	3.34	5,483.7	208.5	12.2	-208.7	0.00	0.00	0.00	
5,600.0	9.52	3.34	5,582.3	225.0	13.1	-225.2	0.00	0.00	0.00	
5,700.0	9.52	3.34	5,680.9	241.6	14.1	-241.7	0.00	0.00	0.00	
5,800.0	9.52	3.34	5,779.6	258.1	15.1	-258.2	0.00	0.00	0.00	
5,900.0	9.52	3.34	5,878.2	274.6	16.0	-274.8	0.00	0.00	0.00	
6,000.0	9.52	3.34	5,976.8	291.1	17.0	-291.3	0.00	0.00	0.00	
6,100.0	9.52	3.34	6,075.4	307.6	18.0	-307.8	0.00	0.00	0.00	
6,200.0	9.52	3.34	6,174.1	324.1	18.9	-324.4	0.00	0.00	0.00	
6,300.0	9.52	3.34	6,272.7	340.7	19.9	-340.9	0.00	0.00	0.00	
6,400.0	9.52	3.34	6,371.3	357.2	20.9	-357.4	0.00	0.00	0.00	
6,500.0	9.52	3.34	6,469.9	373.7	21.8	-373.9	0.00	0.00	0.00	
6,600.0	9.52	3.34	6,568.5	390.2	22.8	-390.5	0.00	0.00	0.00	
6,700.0	9.52	3.34	6,667.2	406.7	23.8	-407.0	0.00	0.00	0.00	
6,800.0	9.52	3.34	6,765.8	423.3	24.7	-423.5	0.00	0.00	0.00	
6,900.0	9.52	3.34	6,864.4	439.8	25.7	-440.1	0.00	0.00	0.00	
7,000.0	9.52	3.34	6,963.0	456.3	26.6	-456.6	0.00	0.00	0.00	
7,100.0	9.52	3.34	7,061.6	472.8	27.6	-473.1	0.00	0.00	0.00	
7,200.0	9.52	3.34	7,160.3	489.3	28.6	-489.6	0.00	0.00	0.00	
7,300.0	9.52	3.34	7,258.9	505.8	29.5	-506.2	0.00	0.00	0.00	
7,368.0	9.52	3.34	7,326.0	517.1	30.2	-517.4	0.00	0.00	0.00	
7,400.0	8.88	3.34	7,357.5	522.2	30.5	-522.5	2.00	-2.00	0.00	
7,500.0	6.88	3.34	7,456.6	535.9	31.3	-536.2	2.00	-2.00	0.00	
7,600.0	4.88	3.34	7,556.1	546.1	31.9	-546.5	2.00	-2.00	0.00	
7,700.0	2.88	3.34	7,655.8	552.9	32.3	-553.2	2.00	-2.00	0.00	
7,800.0	0.88	3.34	7,755.8	556.2	32.5	-556.5	2.00	-2.00	0.00	
7,844.2	0.00	0.00	7,800.0	556.5	32.5	-556.9	2.00	-2.00	0.00	
7,900.0	0.00	0.00	7,855.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,955.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,055.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,155.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,255.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,355.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,455.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,555.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,655.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,755.8	556.5	32.5	-556.9	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,855.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,955.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,055.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,155.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,255.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,355.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,455.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,555.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,655.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,755.8	556.5	32.5	-556.9	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,855.8	556.5	32.5	-556.9	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,955.8	556.5	32.5	-556.9	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,055.8	556.5	32.5	-556.9	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,155.8	556.5	32.5	-556.9	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,255.8	556.5	32.5	-556.9	0.00	0.00	0.00	
10,359.2	0.00	0.00	10,315.0	556.5	32.5	-556.9	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: #501H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #501H
 TVD Reference: KB = 25 @ 3460.0usft
 MD Reference: KB = 25 @ 3460.0usft
 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)
10,375.0	1.89	207.23	10,330.8	556.3	32.4	-556.6	12.00	12.00	0.00
10,400.0	4.89	207.23	10,355.7	555.0	31.7	-555.3	12.00	12.00	0.00
10,425.0	7.89	207.23	10,380.6	552.5	30.4	-552.8	12.00	12.00	0.00
10,450.0	10.89	207.23	10,405.2	548.9	28.6	-549.2	12.00	12.00	0.00
10,475.0	13.89	207.23	10,429.6	544.1	26.1	-544.4	12.00	12.00	0.00
10,500.0	16.89	207.23	10,453.7	538.2	23.1	-538.4	12.00	12.00	0.00
10,525.0	19.89	207.23	10,477.5	531.2	19.5	-531.4	12.00	12.00	0.00
10,550.0	22.89	207.23	10,500.7	523.1	15.3	-523.2	12.00	12.00	0.00
10,575.0	25.89	207.23	10,523.5	513.9	10.6	-514.0	12.00	12.00	0.00
10,600.0	28.89	207.23	10,545.7	503.7	5.3	-503.7	12.00	12.00	0.00
10,625.0	31.89	207.23	10,567.3	492.4	-0.5	-492.4	12.00	12.00	0.00
10,650.0	34.89	207.23	10,588.1	480.2	-6.8	-480.1	12.00	12.00	0.00
10,675.0	37.89	207.23	10,608.2	467.0	-13.6	-466.8	12.00	12.00	0.00
10,701.0	41.01	207.23	10,628.3	452.3	-21.1	-452.0	12.00	12.00	0.00
10,725.0	43.42	204.81	10,646.1	437.8	-28.2	-437.4	12.12	10.06	-10.06
10,750.0	45.99	202.52	10,663.9	421.7	-35.2	-421.2	12.12	10.25	-9.18
10,775.0	48.59	200.42	10,680.8	404.6	-41.9	-404.1	12.12	10.42	-8.41
10,800.0	51.23	198.48	10,696.9	386.6	-48.3	-385.9	12.12	10.56	-7.76
10,825.0	53.90	196.67	10,712.1	367.7	-54.3	-366.9	12.12	10.68	-7.20
10,850.0	56.60	194.99	10,726.4	347.9	-59.9	-347.1	12.12	10.78	-6.73
10,875.0	59.32	193.41	10,739.6	327.3	-65.1	-326.5	12.12	10.87	-6.32
10,900.0	62.05	191.92	10,751.9	306.1	-69.9	-305.2	12.12	10.94	-5.97
10,925.0	64.80	190.50	10,763.0	284.2	-74.2	-283.2	12.12	11.00	-5.68
10,950.0	67.57	189.14	10,773.1	261.6	-78.1	-260.6	12.12	11.05	-5.43
10,975.0	70.34	187.84	10,782.1	238.5	-81.6	-237.5	12.12	11.10	-5.21
11,000.0	73.12	186.58	10,790.0	215.0	-84.5	-213.9	12.12	11.13	-5.04
11,025.0	75.91	185.36	10,796.6	191.0	-87.0	-189.9	12.12	11.16	-4.89
11,050.0	78.71	184.17	10,802.1	166.7	-89.1	-165.6	12.12	11.19	-4.77
11,075.0	81.51	183.00	10,806.4	142.2	-90.6	-141.0	12.12	11.21	-4.68
11,100.0	84.32	181.84	10,809.5	117.4	-91.6	-116.2	12.12	11.22	-4.61
11,125.0	87.12	180.70	10,811.4	92.5	-92.2	-91.3	12.12	11.23	-4.57
11,150.6	90.00	179.54	10,812.0	66.9	-92.2	-65.7	12.12	11.23	-4.54
11,200.0	90.00	179.54	10,812.0	17.5	-91.9	-16.3	0.00	0.00	0.00
11,300.0	90.00	179.54	10,812.0	-82.5	-91.0	83.7	0.00	0.00	0.00
11,400.0	90.00	179.54	10,812.0	-182.5	-90.2	183.7	0.00	0.00	0.00
11,500.0	90.00	179.54	10,812.0	-282.5	-89.4	283.6	0.00	0.00	0.00
11,600.0	90.00	179.54	10,812.0	-382.5	-88.6	383.6	0.00	0.00	0.00
11,700.0	90.00	179.54	10,812.0	-482.5	-87.8	483.6	0.00	0.00	0.00
11,800.0	90.00	179.54	10,812.0	-582.5	-87.0	583.6	0.00	0.00	0.00
11,900.0	90.00	179.54	10,812.0	-682.5	-86.2	683.5	0.00	0.00	0.00
12,000.0	90.00	179.54	10,812.0	-782.5	-85.4	783.5	0.00	0.00	0.00
12,100.0	90.00	179.54	10,812.0	-882.5	-84.6	883.5	0.00	0.00	0.00
12,200.0	90.00	179.54	10,812.0	-982.5	-83.8	983.5	0.00	0.00	0.00
12,300.0	90.00	179.54	10,812.0	-1,082.5	-83.0	1,083.5	0.00	0.00	0.00
12,400.0	90.00	179.54	10,812.0	-1,182.5	-82.2	1,183.4	0.00	0.00	0.00
12,500.0	90.00	179.54	10,812.0	-1,282.5	-81.4	1,283.4	0.00	0.00	0.00
12,600.0	90.00	179.54	10,812.0	-1,382.5	-80.6	1,383.4	0.00	0.00	0.00
12,700.0	90.00	179.54	10,812.0	-1,482.5	-79.8	1,483.4	0.00	0.00	0.00
12,800.0	90.00	179.54	10,812.0	-1,582.5	-79.0	1,583.4	0.00	0.00	0.00
12,900.0	90.00	179.54	10,812.0	-1,682.5	-78.2	1,683.3	0.00	0.00	0.00
13,000.0	90.00	179.54	10,812.0	-1,782.5	-77.4	1,783.3	0.00	0.00	0.00
13,100.0	90.00	179.54	10,812.0	-1,882.5	-76.6	1,883.3	0.00	0.00	0.00
13,200.0	90.00	179.54	10,812.0	-1,982.5	-75.8	1,983.3	0.00	0.00	0.00
13,300.0	90.00	179.54	10,812.0	-2,082.5	-75.0	2,083.2	0.00	0.00	0.00



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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)
13,400.0	90.00	179.54	10,812.0	-2,182.5	-74.2	2,183.2	0.00	0.00	0.00
13,500.0	90.00	179.54	10,812.0	-2,282.5	-73.4	2,283.2	0.00	0.00	0.00
13,600.0	90.00	179.54	10,812.0	-2,382.5	-72.6	2,383.2	0.00	0.00	0.00
13,700.0	90.00	179.54	10,812.0	-2,482.5	-71.8	2,483.2	0.00	0.00	0.00
13,800.0	90.00	179.54	10,812.0	-2,582.5	-71.0	2,583.1	0.00	0.00	0.00
13,900.0	90.00	179.54	10,812.0	-2,682.4	-70.2	2,683.1	0.00	0.00	0.00
14,000.0	90.00	179.54	10,812.0	-2,782.4	-69.4	2,783.1	0.00	0.00	0.00
14,100.0	90.00	179.54	10,812.0	-2,882.4	-68.6	2,883.1	0.00	0.00	0.00
14,200.0	90.00	179.54	10,812.0	-2,982.4	-67.8	2,983.1	0.00	0.00	0.00
14,300.0	90.00	179.54	10,812.0	-3,082.4	-67.0	3,083.0	0.00	0.00	0.00
14,400.0	90.00	179.54	10,812.0	-3,182.4	-66.2	3,183.0	0.00	0.00	0.00
14,500.0	90.00	179.54	10,812.0	-3,282.4	-65.4	3,283.0	0.00	0.00	0.00
14,600.0	90.00	179.54	10,812.0	-3,382.4	-64.6	3,383.0	0.00	0.00	0.00
14,700.0	90.00	179.54	10,812.0	-3,482.4	-63.8	3,482.9	0.00	0.00	0.00
14,800.0	90.00	179.54	10,812.0	-3,582.4	-62.9	3,582.9	0.00	0.00	0.00
14,900.0	90.00	179.54	10,812.0	-3,682.4	-62.1	3,682.9	0.00	0.00	0.00
15,000.0	90.00	179.54	10,812.0	-3,782.4	-61.3	3,782.9	0.00	0.00	0.00
15,100.0	90.00	179.54	10,812.0	-3,882.4	-60.5	3,882.9	0.00	0.00	0.00
15,200.0	90.00	179.54	10,812.0	-3,982.4	-59.7	3,982.8	0.00	0.00	0.00
15,300.0	90.00	179.54	10,812.0	-4,082.4	-58.9	4,082.8	0.00	0.00	0.00
15,400.0	90.00	179.54	10,812.0	-4,182.4	-58.1	4,182.8	0.00	0.00	0.00
15,500.0	90.00	179.54	10,812.0	-4,282.4	-57.3	4,282.8	0.00	0.00	0.00
15,600.0	90.00	179.54	10,812.0	-4,382.4	-56.5	4,382.8	0.00	0.00	0.00
15,665.6	90.00	179.54	10,812.0	-4,448.0	-56.0	4,448.4	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	10,812.0	-4,448.0	-56.0	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 42.6usft at 10956.6usft MD (10775.6 TVD, 255.6 N, -79.1 E) - Point	0.00	0.00	10,812.0	272.0	-94.0	398,444.00	761,906.00	32° 5' 36.239 N	103° 37' 15.887 W