



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#5H

OH

Design: OH

PVA Report

08 February, 2018

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PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #5H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3394.0usft (HP 620)
Site:	Gem 36 State Com	MD Reference:	KB = 25' @ 3394.0usft (HP 620)
Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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	#5H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 4' 49.331 N
		Longitude:	103° 37' 47.552 W
		Ground Level:	3,369.0 usft

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

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			6.96



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Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date 2/8/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
140.0	8,515.0	Drilltech MWD (OH)	MWD	MWD - Standard
8,649.0	14,026.0	MS MWD (OH)	MWD	MWD - Standard

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
140.0	0.97	305.45	140.0	0.7	-1.0	0.69	0.69	0.00	-1.2	0.0	
315.0	2.29	293.93	314.9	3.0	-5.4	0.77	0.75	-6.58	-6.1	-0.5	
491.0	3.69	287.34	490.7	6.1	-14.0	0.82	0.80	-3.74	-15.2	-1.6	
669.0	3.17	287.25	668.4	9.2	-24.2	0.29	-0.29	-0.05	-25.8	-1.7	
741.0	3.25	282.51	740.2	10.3	-28.1	0.38	0.11	-6.58	-29.6	-4.0	
875.0	2.81	285.06	874.1	12.0	-34.9	0.34	-0.33	1.90	-36.8	-2.5	
1,064.0	1.14	120.79	1,063.0	12.2	-37.8	2.07	-0.88	-86.92	39.4	-9.0	
1,253.0	2.29	95.83	1,251.9	10.8	-32.4	0.71	0.61	-13.21	40.2	9.0	
1,444.0	2.55	89.94	1,442.7	10.5	-24.4	0.19	0.14	-3.08	37.4	14.7	
1,632.0	2.46	88.89	1,630.6	10.5	-16.2	0.05	-0.05	-0.56	35.1	17.5	
1,822.0	2.29	90.12	1,820.4	10.6	-8.3	0.09	-0.09	0.65	33.9	18.8	
2,011.0	2.20	89.94	2,009.3	10.6	-0.9	0.05	-0.05	-0.10	32.7	21.0	
2,200.0	1.93	90.03	2,198.1	10.6	5.9	0.14	-0.14	0.05	32.2	23.0	
2,389.0	1.93	82.29	2,387.0	11.0	12.3	0.14	0.00	-4.10	28.4	29.5	
2,578.0	3.08	94.33	2,575.8	11.1	20.5	0.67	0.61	6.37	32.2	25.2	
2,768.0	2.81	96.62	2,765.6	10.2	30.2	0.15	-0.14	1.21	29.9	25.4	
2,957.0	2.46	97.59	2,954.4	9.1	38.8	0.19	-0.19	0.51	28.1	26.2	
3,147.0	2.20	89.15	3,144.2	8.6	46.5	0.23	-0.14	-4.44	22.6	31.5	
3,335.0	2.37	89.68	3,332.1	8.7	54.0	0.09	0.09	0.28	21.6	33.4	
3,524.0	4.13	74.56	3,520.8	10.5	64.5	1.03	0.93	-8.00	7.1	40.5	



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Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: KB = 25' @ 3394.0usft (HP 620)
MD Reference: KB = 25' @ 3394.0usft (HP 620)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,713.0	4.48	76.93	3,709.2	14.0	78.2	0.21	0.19	1.25	0.2	43.9	
3,902.0	4.22	98.20	3,897.7	14.7	92.3	0.86	-0.14	11.25	8.7	44.6	
4,091.0	4.84	117.89	4,086.1	10.0	106.2	0.88	0.33	10.42	15.2	40.3	
4,280.0	5.19	116.75	4,274.4	2.4	120.9	0.19	0.19	-0.60	4.4	39.4	
4,469.0	6.24	121.14	4,462.5	-6.8	137.3	0.60	0.56	2.32	-5.0	38.1	
4,658.0	6.16	125.10	4,650.4	-17.9	154.4	0.23	-0.04	2.10	-16.5	37.2	
4,834.0	5.19	124.39	4,825.5	-27.8	168.7	0.55	-0.55	-0.40	-28.3	35.1	
4,943.0	5.19	125.18	4,934.0	-33.5	176.8	0.07	0.00	0.72	-31.1	33.4	
5,132.0	7.03	117.63	5,122.0	-43.8	194.1	1.06	0.97	-3.99	-33.8	24.3	
5,322.0	7.47	116.92	5,310.5	-54.7	215.4	0.24	0.23	-0.37	-31.9	19.6	
5,511.0	7.47	114.81	5,497.8	-65.5	237.5	0.15	0.00	-1.12	-31.0	14.9	
5,700.0	7.56	112.09	5,685.2	-75.3	260.1	0.19	0.05	-1.44	-30.2	10.9	
5,889.0	6.95	109.54	5,872.7	-83.8	282.4	0.36	-0.32	-1.35	-28.2	8.3	
6,079.0	6.77	106.46	6,061.4	-90.8	304.0	0.22	-0.09	-1.62	-24.8	6.9	
6,268.0	6.68	103.65	6,249.1	-96.6	325.4	0.18	-0.05	-1.49	-20.9	7.2	
6,456.0	6.68	103.83	6,435.8	-101.8	346.6	0.01	0.00	0.10	-16.7	9.2	
6,645.0	6.77	101.98	6,623.5	-106.7	368.2	0.12	0.05	-0.98	-12.9	11.0	
6,834.0	5.98	101.89	6,811.3	-111.0	388.7	0.42	-0.42	-0.05	-7.7	13.8	
7,025.0	5.54	103.12	7,001.3	-115.2	407.4	0.24	-0.23	0.64	0.0	16.4	
7,215.0	5.54	101.45	7,190.5	-119.1	425.4	0.08	0.00	-0.88	7.5	19.2	
7,404.0	5.19	103.74	7,378.6	-122.9	442.6	0.22	-0.19	1.21	11.3	20.8	
7,569.0	3.69	138.10	7,543.2	-128.7	453.4	1.81	-0.91	20.82	16.5	11.0	
7,758.0	2.73	166.05	7,731.9	-137.5	458.6	0.96	-0.51	14.79	10.1	4.3	
7,947.0	1.41	163.07	7,920.7	-144.1	460.3	0.70	-0.70	-1.58	3.1	4.6	
8,136.0	1.58	168.51	8,109.7	-148.9	461.5	0.12	0.09	2.88	-1.4	4.5	
8,325.0	1.58	166.32	8,298.6	-154.0	462.6	0.03	0.00	-1.16	-6.8	4.4	
8,515.0	1.76	167.02	8,488.5	-159.4	463.9	0.10	0.09	0.37	-12.3	4.5	



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Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,649.0	1.70	166.40	8,622.5	-163.3	464.9	0.05	-0.04	-0.46	-16.4	4.3	
8,696.0	0.80	340.50	8,669.5	-163.7	464.9	5.31	-1.91	370.43	17.1	-2.6	
8,738.6	6.39	345.82	8,712.0	-161.1	464.2	13.13	13.12	12.49	14.1	-4.1	
KOP (Gem 36 State Com #5H)											
8,744.0	7.10	345.90	8,717.3	-160.5	464.1	13.13	13.13	1.41	13.5	-4.1	
8,791.0	12.30	0.90	8,763.6	-152.7	463.4	12.21	11.06	31.91	6.5	-6.5	
8,838.0	17.10	1.50	8,809.1	-140.8	463.7	10.22	10.21	1.28	0.5	-5.8	
8,933.0	26.60	2.90	8,897.2	-105.5	465.1	10.01	10.00	1.47	-11.7	-3.4	
9,027.0	32.90	1.60	8,978.7	-58.9	466.9	6.74	6.70	-1.38	-20.9	0.1	
9,122.0	40.60	5.90	9,054.8	-2.3	470.8	8.54	8.11	4.53	-25.5	5.2	
9,217.0	47.60	9.40	9,123.0	63.2	479.7	7.80	7.37	3.68	-25.6	6.4	
9,291.5	49.39	5.53	9,172.4	118.5	487.0	4.57	2.40	-5.20	-20.3	5.8	
FTP Crossing, MD:9291.5', TVD:9172.4', N/S:118.5', E/W:487.0', INC:49.39											
9,312.0	49.90	4.50	9,185.6	134.1	488.3	4.57	2.51	-5.02	-17.5	6.5	
9,357.0	52.40	3.40	9,213.9	169.0	490.7	5.87	5.56	-2.44	-9.9	9.0	
9,361.2	52.55	3.49	9,216.4	172.4	490.9	4.01	3.59	2.25	-9.1	9.3	
FTP (Gem 36 State Com #5H)											
9,407.0	54.20	4.50	9,243.8	209.0	493.5	4.01	3.60	2.20	0.7	12.0	
9,454.0	58.20	5.90	9,269.9	247.9	497.1	8.86	8.51	2.98	12.2	14.1	
9,502.0	66.40	6.00	9,292.2	290.1	501.5	17.08	17.08	0.21	22.9	15.5	
9,533.0	73.10	6.40	9,302.9	319.0	504.6	21.65	21.61	1.29	27.8	16.1	
9,565.0	78.50	6.80	9,310.8	349.8	508.2	16.92	16.87	1.25	31.1	16.6	
9,619.0	89.60	6.40	9,316.3	403.1	514.3	20.57	20.56	-0.74	32.7	17.7	
9,714.0	92.60	7.10	9,314.5	497.4	525.5	3.24	3.16	0.74	30.6	17.8	
9,808.0	93.30	5.60	9,309.7	590.7	535.9	1.76	0.74	-1.60	25.7	14.1	
9,903.0	92.30	2.70	9,305.0	685.3	542.7	3.23	-1.05	-3.05	21.1	9.3	
9,997.0	91.20	2.20	9,302.2	779.2	546.8	1.29	-1.17	-0.53	18.2	6.2	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Survey											
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10,091.0	91.50	1.90	9,300.0	873.1	550.1	0.45	0.32	-0.32	16.0	3.7	
10,186.0	91.90	2.00	9,297.1	968.0	553.3	0.43	0.42	0.11	13.2	1.3	
10,281.0	90.60	0.80	9,295.1	1,063.0	555.7	1.86	-1.37	-1.26	11.1	-0.1	
10,375.0	90.90	0.50	9,293.8	1,156.9	556.7	0.45	0.32	-0.32	9.9	-0.4	
10,470.0	91.70	0.10	9,291.7	1,251.9	557.2	0.94	0.84	-0.42	7.7	0.0	
10,564.0	90.10	0.10	9,290.2	1,345.9	557.4	1.70	-1.70	0.00	6.2	0.7	
10,659.0	90.30	1.00	9,289.9	1,440.9	558.3	0.97	0.21	0.95	5.9	0.7	
10,753.0	91.40	1.40	9,288.5	1,534.9	560.3	1.25	1.17	0.43	4.5	-0.4	
10,848.0	91.80	1.30	9,285.8	1,629.8	562.5	0.43	0.42	-0.11	1.9	-1.8	
10,942.0	92.50	1.00	9,282.3	1,723.7	564.4	0.81	0.74	-0.32	-1.7	-2.8	
11,037.0	93.30	1.20	9,277.5	1,818.6	566.2	0.87	0.84	0.21	-6.5	-3.8	
11,131.0	92.80	0.90	9,272.5	1,912.4	567.9	0.62	-0.53	-0.32	-11.5	-4.7	
11,226.0	91.30	359.40	9,269.1	2,007.4	568.2	2.23	-1.58	-1.58	-14.9	-4.0	
11,320.0	90.30	358.70	9,267.8	2,101.3	566.6	1.30	-1.06	-0.74	-16.2	-1.6	
11,414.0	91.00	359.40	9,266.7	2,195.3	565.1	1.05	0.74	0.74	-17.3	0.8	
11,509.0	90.00	359.80	9,265.9	2,290.3	564.4	1.13	-1.05	0.42	-18.1	2.3	
11,604.0	90.20	0.30	9,265.7	2,385.3	564.5	0.57	0.21	0.53	-18.3	3.1	
11,698.0	90.60	0.10	9,265.1	2,479.3	564.8	0.48	0.43	-0.21	-18.9	3.7	
11,793.0	91.00	0.30	9,263.7	2,574.3	565.1	0.47	0.42	0.21	-20.2	4.2	
11,888.0	89.70	0.60	9,263.2	2,669.3	565.9	1.40	-1.37	0.32	-20.8	4.3	
11,982.0	88.80	0.60	9,264.4	2,763.3	566.9	0.96	-0.96	0.00	-19.6	4.2	
12,077.0	89.50	0.60	9,265.8	2,858.3	567.9	0.74	0.74	0.00	-18.2	4.1	
12,171.0	91.00	0.60	9,265.4	2,952.3	568.9	1.60	1.60	0.00	-18.6	3.9	
12,266.0	91.50	0.00	9,263.3	3,047.2	569.4	0.82	0.53	-0.63	-20.7	4.3	
12,361.0	92.10	0.50	9,260.3	3,142.2	569.8	0.82	0.63	0.53	-23.6	4.8	
12,455.0	92.00	0.30	9,257.0	3,236.1	570.4	0.24	-0.11	-0.21	-27.0	5.0	
12,550.0	92.70	0.10	9,253.1	3,331.0	570.8	0.77	0.74	-0.21	-30.9	5.5	



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Site: Gem 36 State Com
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: KB = 25' @ 3394.0usft (HP 620)
MD Reference: KB = 25' @ 3394.0usft (HP 620)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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12,644.0	92.30	0.10	9,249.0	3,424.9	570.9	0.43	-0.43	0.00	-35.0	6.2	
12,739.0	90.20	0.50	9,246.9	3,519.9	571.4	2.25	-2.21	0.42	-37.1	6.6	
12,834.0	90.20	0.30	9,246.6	3,614.9	572.1	0.21	0.00	-0.21	-37.4	6.8	
12,928.0	90.90	0.60	9,245.7	3,708.9	572.8	0.81	0.74	0.32	-38.3	6.9	
13,023.0	92.10	0.60	9,243.2	3,803.9	573.8	1.26	1.26	0.00	-40.8	6.8	
13,118.0	94.40	359.20	9,237.8	3,898.7	573.6	2.83	2.42	-1.47	-46.2	7.8	
13,212.0	92.90	358.40	9,231.8	3,992.5	571.7	1.81	-1.60	-0.85	-52.2	10.6	
13,307.0	89.60	357.90	9,229.7	4,087.4	568.6	3.51	-3.47	-0.53	-54.3	14.5	
13,401.0	89.30	356.60	9,230.6	4,181.3	564.1	1.42	-0.32	-1.38	-53.4	19.9	
13,496.0	89.20	358.60	9,231.9	4,276.2	560.1	2.11	-0.11	2.11	-52.1	24.8	
13,591.0	88.70	1.30	9,233.6	4,371.2	560.0	2.89	-0.53	2.84	-50.4	25.7	
13,685.0	89.90	2.10	9,234.8	4,465.1	562.8	1.53	1.28	0.85	-49.2	23.8	
13,780.0	91.30	2.80	9,233.8	4,560.0	566.9	1.65	1.47	0.74	-50.2	20.6	
13,874.0	91.40	1.90	9,231.6	4,653.9	570.7	0.96	0.11	-0.96	-52.4	17.6	
13,955.2	92.31	1.44	9,228.9	4,735.0	573.1	1.26	1.12	-0.56	-55.1	16.0	
LTP Crossing, MD:13955.2', TVD:9228.9', N/S:4735.0', E/W:573.1', INC:92.31											
13,963.0	92.40	1.40	9,228.6	4,742.8	573.3	1.26	1.12	-0.56	-55.4	15.9	
Final MWD Survey (MD= 13963.0')											
14,026.0	92.40	1.40	9,226.0	4,805.8	574.8	0.00	0.00	0.00	-58.0	14.9	
Final Bit Projection (MD= 14026.0') - PBHL (Gem 36 State Com #5H)											



PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #5H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3394.0usft (HP 620)
Site:	Gem 36 State Com	MD Reference:	KB = 25' @ 3394.0usft (HP 620)
Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,291.5	9,172.4	118.5	487.0	FTP Crossing, MD:9291.5', TVD:9172.4', N/S:118.5', E/W:487.0', INC:49.39
13,955.2	9,228.9	4,735.0	573.1	LTP Crossing, MD:13955.2', TVD:9228.9', N/S:4735.0', E/W:573.1', INC:92.31
13,963.0	9,228.6	4,742.8	573.3	Final MWD Survey (MD= 13963.0')
14,026.0	9,226.0	4,805.8	574.8	Final Bit Projection (MD= 14026.0')

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Gem 36 State Com #5H

HP 620

Plan #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: #5H

Ground Level: 3369.0
KB = 25' @ 3394.0usft (HP 620)
Northing 393686.00 Easting 759213.00 Latitude 32° 4' 49.331 N Longitude 103° 37' 47.552 W



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

Magnetic Field
Strength: 47861.3anT
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°

SECTION DETAILS

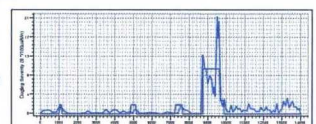
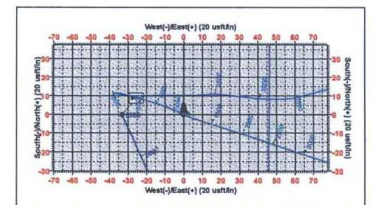
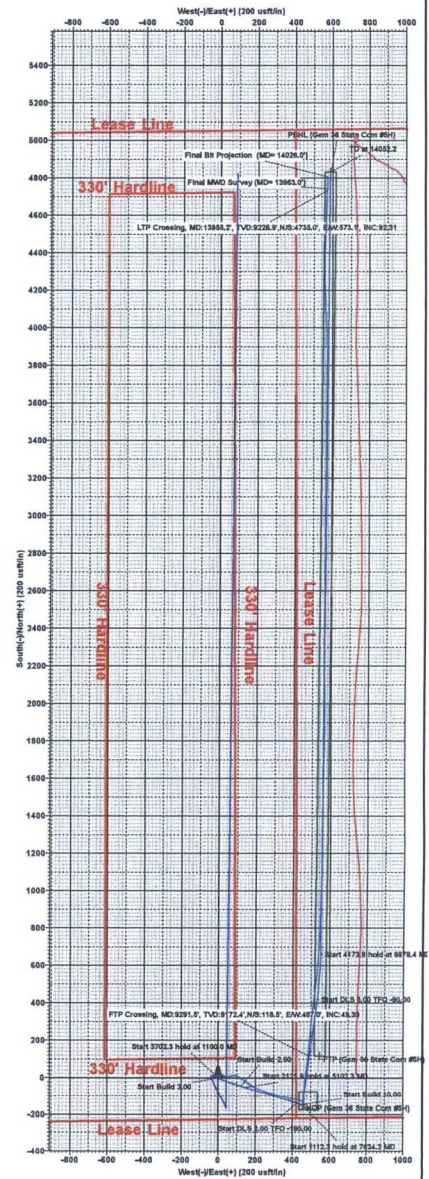
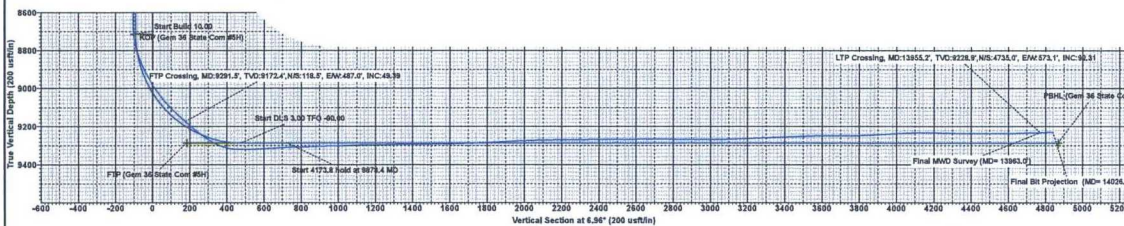
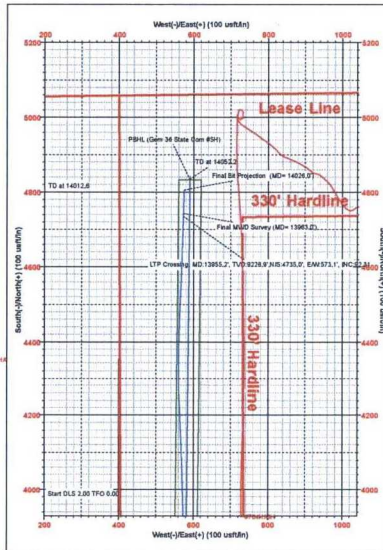
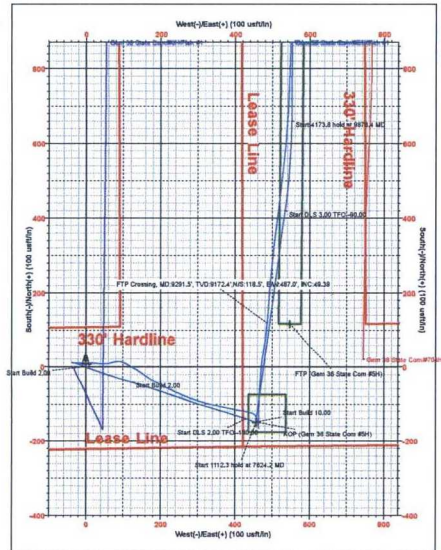
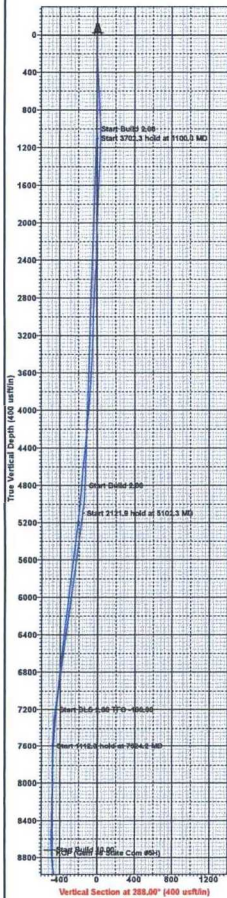
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSeet	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0		
3	1100.0	2.00	108.00	1100.0	-0.5	1.7	2.00	108.00	-0.3		
4	4802.3	2.00	108.00	4800.0	-40.5	124.5	0.00	0.00	-25.1		
5	5102.3	8.00	108.00	5098.7	-48.5	149.4	2.00	0.00	-30.1		
6	7224.2	8.00	108.00	7200.0	-139.8	430.3	0.00	0.00	-85.6		
7	7624.2	0.00	0.00	7598.7	-148.4	456.8	2.00	-180.00	-92.0		
8	8736.5	0.00	0.00	8711.0	-148.4	456.8	0.00	0.00	-92.0		
9	9636.5	90.00	7.78	9284.0	419.3	534.3	10.00	7.78	480.9		
10	9878.4	90.00	0.52	9284.0	660.3	551.8	3.00	-90.00	722.3		
11	14052.2	90.00	0.52	9284.0	4834.0	590.0	0.00	0.00	4688.9		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	759668.78



Lea County, NM (NAD 83 NME)
Gem 36 State Com #5H
HP 620
Plan #1
4/27/2017