



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Gem 36 State Com

Gem 36 State Com #1H

OH

Design: OH

EOG PVA

10 November, 2014

30-025-41825

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EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Gem 36 State Com #1H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21 @ 3397.0usft (Nomac 55)
Site:	Gem 36 State Com	MD Reference:	KB = 21 @ 3397.0usft (Nomac 55)
Well:	Gem 36 State Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Gem 36 State Com		
Site Position:		Northing:	393,654.00 usft
From:	Map	Easting:	720,486.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 48.974 N
		Longitude:	103° 37' 17.267 W
		Grid Convergence:	0.38 °

Well		Gem 36 State Com #1H				
Well Position	+N/-S	0.0 usft	Northing:	393,654.00 usft	Latitude:	32° 4' 48.974 N
	+E/-W	0.0 usft	Easting:	720,486.00 usft	Longitude:	103° 37' 17.267 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,376.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	10/23/2014	7.19	59.96	48,189

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	2.52	

Survey Program	Date 11/10/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
186.0	14,006.0	MWD #1 (OH)	MWD	MWD - Standard



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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	
186.0	0.10	227.80	186.0	-0.1	-0.1	0.05	0.05	0.00	-0.2	0.0	
335.0	1.00	153.10	335.0	-1.4	0.4	0.66	0.60	-50.13	-1.4	-0.3	
513.0	1.70	151.70	512.9	-5.1	2.3	0.39	0.39	-0.79	-5.6	-0.4	
696.0	0.90	173.40	695.9	-8.9	3.8	0.51	-0.44	11.86	-9.3	2.7	
789.0	1.30	178.90	788.9	-10.7	3.9	0.44	0.43	5.91	-10.7	3.7	
900.0	1.00	174.60	899.9	-12.9	4.0	0.28	-0.27	-3.87	-13.2	2.8	
1,084.0	1.00	173.80	1,083.8	-16.1	4.3	0.01	0.00	-0.43	-16.5	2.6	
1,270.0	0.50	172.30	1,269.8	-18.5	4.6	0.27	-0.27	-0.81	-19.0	2.1	
1,460.0	0.60	164.80	1,459.8	-20.3	5.0	0.06	0.05	-3.95	-20.9	-0.5	
1,650.0	0.70	171.20	1,649.8	-22.4	5.4	0.06	0.05	3.37	-23.0	1.9	
1,840.0	1.00	37.30	1,839.8	-22.2	6.6	0.83	0.16	-70.47	13.7	-18.7	
2,031.0	1.10	39.90	2,030.7	-19.5	8.8	0.06	0.05	1.36	9.3	-19.2	
2,221.0	1.10	39.50	2,220.7	-16.7	11.1	0.00	0.00	-0.21	5.8	-19.2	
2,411.0	0.90	40.90	2,410.7	-14.1	13.3	0.11	-0.11	0.74	2.0	-19.3	
2,601.0	1.00	37.70	2,600.7	-11.7	15.2	0.06	0.05	-1.68	-0.1	-19.2	
2,791.0	1.20	42.30	2,790.6	-8.9	17.6	0.11	0.11	2.42	-5.2	-19.0	
2,886.0	1.00	42.80	2,885.6	-7.6	18.8	0.21	-0.21	0.53	-7.2	-19.0	
3,076.0	0.80	80.50	3,075.6	-6.1	21.3	0.32	-0.11	19.84	-20.0	-9.6	
3,172.0	0.80	88.40	3,171.6	-6.0	22.6	0.11	0.00	8.23	-22.4	-6.6	
3,362.0	1.80	72.80	3,361.5	-5.1	26.8	0.55	0.53	-8.21	-24.1	-12.8	
3,553.0	2.70	75.30	3,552.4	-3.1	34.0	0.47	0.47	1.31	-32.1	-11.6	
3,743.0	2.00	109.10	3,742.2	-3.0	41.4	0.80	-0.37	17.79	-40.2	10.7	
3,933.0	1.00	175.20	3,932.2	-5.7	44.7	0.97	-0.53	34.79	-9.5	44.1	
4,124.0	1.00	171.00	4,123.1	-9.1	45.1	0.04	0.00	-2.20	-16.0	43.2	
4,313.0	1.90	143.70	4,312.1	-13.2	47.2	0.59	0.48	-14.44	-38.6	30.3	
4,504.0	2.90	142.40	4,502.9	-19.6	52.1	0.52	0.52	-0.68	-47.3	29.3	



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Design:	OH	Database:	EDM 5000.1 Single User Db

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4,661.0	3.30	135.80	4,659.7	-26.0	57.6	0.34	0.25	-4.20	-58.8	23.2	
4,764.0	3.00	129.60	4,762.5	-29.8	61.8	0.44	-0.29	-6.02	-66.6	16.4	
4,953.0	4.20	133.80	4,951.1	-37.8	70.6	0.65	0.63	2.22	-75.1	21.4	
5,143.0	5.00	134.70	5,140.5	-48.4	81.5	0.42	0.42	0.47	-81.8	21.7	
5,333.0	5.10	127.20	5,329.8	-59.3	94.1	0.35	0.05	-3.95	-86.9	10.0	
5,523.0	4.70	126.80	5,519.1	-69.1	107.1	0.21	-0.21	-0.21	-89.0	9.7	
5,714.0	4.60	125.60	5,709.5	-78.2	119.6	0.07	-0.05	-0.63	-90.3	8.2	
5,904.0	3.60	135.80	5,899.0	-87.0	129.9	0.65	-0.53	5.37	-86.8	23.5	
6,094.0	6.10	138.80	6,088.3	-98.8	140.7	1.32	1.32	1.58	-87.5	25.7	
6,283.0	6.20	138.80	6,276.2	-114.1	154.1	0.05	0.05	0.00	-93.8	23.0	
6,474.0	6.00	138.60	6,466.1	-129.3	167.4	0.11	-0.10	-0.10	-100.1	20.0	
6,665.0	5.70	136.20	6,656.1	-143.7	180.6	0.20	-0.16	-1.26	-106.1	13.4	
6,855.0	5.60	142.00	6,845.2	-157.8	192.9	0.30	-0.05	3.05	-109.1	21.5	
7,045.0	5.40	141.00	7,034.3	-172.0	204.2	0.12	-0.11	-0.53	-113.7	16.3	
7,235.0	0.80	142.10	7,224.0	-180.0	210.6	2.42	-2.42	0.58	-109.8	15.2	
7,426.0	0.90	155.50	7,415.0	-182.4	212.1	0.12	0.05	7.02	-93.4	33.9	
7,616.0	1.80	151.70	7,604.9	-186.4	214.1	0.48	0.47	-2.00	-86.8	21.8	
7,807.0	0.90	358.10	7,795.9	-187.6	215.5	1.38	-0.47	-80.42	60.0	-48.6	
7,903.0	1.00	348.50	7,891.9	-186.0	215.3	0.20	0.10	-10.00	60.2	-33.3	
7,998.0	0.90	347.40	7,986.9	-184.4	215.0	0.11	-0.11	-1.16	53.7	-27.7	
8,094.0	0.50	343.20	8,082.9	-183.3	214.7	0.42	-0.42	-4.37	48.6	-19.6	
8,189.0	0.60	345.50	8,177.9	-182.4	214.4	0.11	0.11	2.42	41.2	-17.1	
8,284.0	0.60	336.40	8,272.9	-181.5	214.1	0.10	0.00	-9.58	36.1	-7.1	
8,379.0	0.50	330.30	8,367.9	-180.7	213.7	0.12	-0.11	-6.42	29.1	-0.6	
8,474.0	0.30	321.50	8,462.9	-180.1	213.3	0.22	-0.21	-9.26	21.3	5.5	
8,569.0	0.40	306.60	8,557.8	-179.7	212.9	0.14	0.11	-15.68	11.5	10.5	
8,641.0	0.50	311.00	8,629.8	-179.4	212.5	0.15	0.14	6.11	6.3	9.9	



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8,719.0	4.80	0.50	8,707.7	-175.9	212.3	5.76	5.51	63.46	5.4	6.5	
8,768.0	11.70	2.20	8,756.2	-168.9	212.5	14.09	14.08	3.47	1.2	9.1	
8,817.0	19.00	3.30	8,803.4	-155.9	213.1	14.91	14.90	2.24	-4.9	11.7	
8,863.0	23.60	2.60	8,846.3	-139.2	214.0	10.02	10.00	-1.52	-11.9	13.7	
8,910.0	27.50	1.10	8,888.7	-119.0	214.6	8.41	8.30	-3.19	-19.0	15.4	
8,958.0	32.40	2.70	8,930.3	-95.0	215.4	10.34	10.21	3.33	-25.0	17.9	
9,005.0	34.60	5.10	8,969.4	-69.2	217.2	5.46	4.68	5.11	-29.5	19.7	
9,053.0	39.00	5.90	9,007.9	-40.6	220.0	9.22	9.17	1.67	-33.2	19.8	
9,100.0	44.00	7.40	9,043.1	-9.6	223.6	10.85	10.64	3.19	-36.5	19.1	
9,148.0	50.00	6.90	9,075.8	25.2	227.9	12.52	12.50	-1.04	-40.8	16.5	
9,195.0	53.20	359.10	9,105.0	61.9	229.8	14.67	6.81	-16.60	-45.6	12.4	
9,243.0	54.60	353.40	9,133.3	100.6	227.3	10.03	2.92	-11.87	-47.7	13.7	
9,257.9	55.37	354.29	9,141.8	112.7	226.0	7.10	5.16	5.95	-47.3	16.0	
HL Crossing, MD:9257.9', TVD:9141.8', N/S:112.7', E/W:226.0', INC:55.37'											
9,291.0	57.10	356.20	9,160.2	140.1	223.7	7.10	5.23	5.78	-45.7	20.3	
9,338.0	61.80	0.30	9,184.1	180.6	222.5	12.50	10.00	8.72	-42.2	24.2	
9,386.0	66.90	2.90	9,204.9	223.8	223.7	11.69	10.62	5.42	-38.9	24.3	
9,433.0	71.00	3.70	9,221.8	267.6	226.2	8.87	8.72	1.70	-35.6	22.2	
9,481.0	75.60	3.50	9,235.6	313.5	229.1	9.59	9.58	-0.42	-31.8	19.3	
9,528.0	78.20	2.80	9,246.2	359.2	231.6	5.72	5.53	-1.49	-26.9	16.6	
9,574.0	84.30	1.90	9,253.2	404.6	233.5	13.40	13.26	-1.96	-21.7	14.3	
9,619.0	91.30	2.80	9,254.9	449.5	235.3	15.68	15.56	2.00	-20.1	12.0	
9,658.0	91.40	3.00	9,254.0	488.4	237.3	0.57	0.26	0.51	-21.0	9.7	
9,753.0	90.00	2.10	9,252.9	583.3	241.5	1.75	-1.47	-0.95	-22.1	4.8	
9,848.0	90.00	2.10	9,252.9	678.2	245.0	0.00	0.00	0.00	-22.1	0.5	
9,943.0	88.20	359.70	9,254.4	773.2	246.5	3.16	-1.89	-2.53	-20.6	-1.7	
10,039.0	89.10	0.00	9,256.6	869.2	246.3	0.99	0.94	0.31	-18.4	-2.2	



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10,133.0	89.40	358.90	9,257.9	963.2	245.4	1.21	0.32	-1.17	-17.1	-2.0	
10,229.0	88.70	359.20	9,259.4	1,059.1	243.8	0.79	-0.73	0.31	-15.6	-1.2	
10,324.0	91.20	1.10	9,259.5	1,154.1	244.0	3.31	2.63	2.00	-15.5	-2.2	
10,418.0	89.20	0.70	9,259.2	1,248.1	245.5	2.17	-2.13	-0.43	-15.8	-4.4	
10,514.0	93.40	5.90	9,257.0	1,343.9	251.0	6.96	4.37	5.42	-18.0	-10.7	
10,545.0	94.40	7.70	9,254.9	1,374.6	254.7	6.63	3.23	5.81	-20.1	-14.6	
10,608.0	90.90	5.60	9,252.0	1,437.1	262.0	6.48	-5.56	-3.33	-23.0	-22.3	
10,640.0	89.90	5.10	9,251.8	1,468.9	264.9	3.49	-3.12	-1.56	-23.3	-25.5	
10,672.0	90.20	5.20	9,251.7	1,500.8	267.8	0.99	0.94	0.31	-23.3	-28.6	
10,703.0	89.80	2.80	9,251.7	1,531.7	270.0	7.85	-1.29	-7.74	-23.2	-31.1	
10,735.0	89.50	2.30	9,251.9	1,563.7	271.4	1.82	-0.94	-1.56	-22.9	-32.8	
10,799.0	89.50	1.40	9,252.5	1,627.7	273.5	1.41	0.00	-1.41	-22.1	-35.3	
10,831.0	88.80	359.70	9,253.0	1,659.6	273.8	5.74	-2.19	-5.31	-21.5	-35.9	
10,893.0	88.80	0.20	9,254.3	1,721.6	273.7	0.81	0.00	0.81	-20.0	-36.3	
10,989.0	88.20	358.40	9,256.8	1,817.6	272.5	1.98	-0.62	-1.87	-17.1	-35.9	
11,083.0	88.10	358.00	9,258.8	1,911.5	269.6	0.44	-0.11	-0.43	-13.8	-33.7	
11,178.0	88.40	356.70	9,262.7	2,006.3	265.2	1.40	0.32	-1.37	-10.5	-30.1	
11,274.0	89.50	356.90	9,264.5	2,102.2	259.8	1.16	1.15	0.21	-8.5	-25.4	
11,369.0	88.80	356.40	9,265.9	2,197.0	254.3	0.91	-0.74	-0.53	-6.8	-20.6	
11,464.0	90.70	358.10	9,266.3	2,291.9	249.7	2.68	2.00	1.79	-6.0	-16.8	
11,559.0	90.50	358.70	9,265.3	2,386.8	247.1	0.67	-0.21	0.63	-6.7	-14.9	
11,654.0	88.80	358.00	9,265.9	2,481.8	244.3	1.94	-1.79	-0.74	-5.8	-12.9	
11,749.0	90.10	357.30	9,266.8	2,576.7	240.5	1.55	1.37	-0.74	-4.6	-9.8	
11,844.0	92.00	357.10	9,265.1	2,671.6	235.8	2.01	2.00	-0.21	-6.0	-5.9	
11,940.0	92.90	357.40	9,261.0	2,767.4	231.2	0.99	0.94	0.31	-9.8	-2.0	
12,034.0	93.30	357.40	9,255.9	2,861.1	227.0	0.43	0.43	0.00	-14.6	1.5	
12,129.0	93.30	358.90	9,250.4	2,955.9	223.9	1.58	0.00	1.58	-19.7	3.8	



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12,225.0	90.90	358.50	9,246.9	3,051.8	221.7	2.53	-2.50	-0.42	-22.9	5.2	
12,320.0	93.70	0.50	9,243.1	3,146.7	220.9	3.62	2.95	2.11	-26.5	5.3	
12,415.0	91.50	359.30	9,238.8	3,241.6	220.7	2.64	-2.32	-1.26	-30.6	4.8	
12,510.0	92.20	359.30	9,235.7	3,336.6	219.6	0.74	0.74	0.00	-33.4	5.2	
12,605.0	92.10	359.30	9,232.1	3,431.5	218.4	0.11	-0.11	0.00	-36.7	5.6	
12,700.0	92.40	359.30	9,228.4	3,526.4	217.2	0.32	0.32	0.00	-40.1	6.0	
12,795.0	92.60	358.80	9,224.3	3,621.3	215.7	0.57	0.21	-0.53	-44.0	6.8	
12,890.0	91.00	358.90	9,221.3	3,716.3	213.8	1.69	-1.68	0.11	-46.8	8.0	
12,985.0	90.50	358.50	9,220.0	3,811.2	211.6	0.67	-0.53	-0.42	-47.7	9.4	
13,081.0	90.00	358.40	9,219.6	3,907.2	209.0	0.53	-0.52	-0.10	-47.9	11.2	
13,175.0	89.30	358.20	9,220.2	4,001.1	206.2	0.77	-0.74	-0.21	-47.1	13.3	
13,270.0	90.00	0.80	9,220.8	4,096.1	205.4	2.83	0.74	2.74	-46.2	13.4	
13,365.0	90.60	0.00	9,220.3	4,191.1	206.1	1.05	0.63	-0.84	-46.5	12.0	
13,461.0	90.60	3.00	9,219.3	4,287.1	208.6	3.12	0.00	3.12	-47.2	8.7	
13,555.0	92.00	7.40	9,217.1	4,380.6	217.1	4.91	1.49	4.68	-49.1	-0.6	
13,649.0	95.00	8.60	9,211.4	4,473.5	230.1	3.44	3.19	1.28	-54.6	-14.3	
13,744.0	96.90	4.70	9,201.5	4,567.4	241.1	4.55	2.00	-4.11	-64.1	-26.2	
13,839.0	95.70	2.90	9,191.1	4,661.6	247.3	2.27	-1.26	-1.89	-74.3	-33.2	
13,910.4	95.17	2.60	9,184.4	4,732.6	250.7	0.85	-0.74	-0.42	-80.8	-37.1	
HL Crossing, MD:13910.4', TVD:9184.4', N/S:4732.6', E/W:250.7', INC:95.17											
13,934.0	95.00	2.50	9,182.3	4,756.1	251.8	0.85	-0.74	-0.42	-82.9	-38.3	
13,946.0	95.30	2.80	9,181.2	4,768.0	252.3	3.53	2.50	2.50	-83.9	-39.0	
Last MWD Survey											
14,006.0	95.30	2.80	9,175.6	4,827.7	255.3	0.00	0.00	0.00	-89.3	-42.4	
Projection To Bit											



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Gem 36 State Com
Well: Gem 36 State Com #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Gem 36 State Com #1H
TVD Reference: KB = 21 @ 3397.0usft (Nomac 55)
MD Reference: KB = 21 @ 3397.0usft (Nomac 55)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

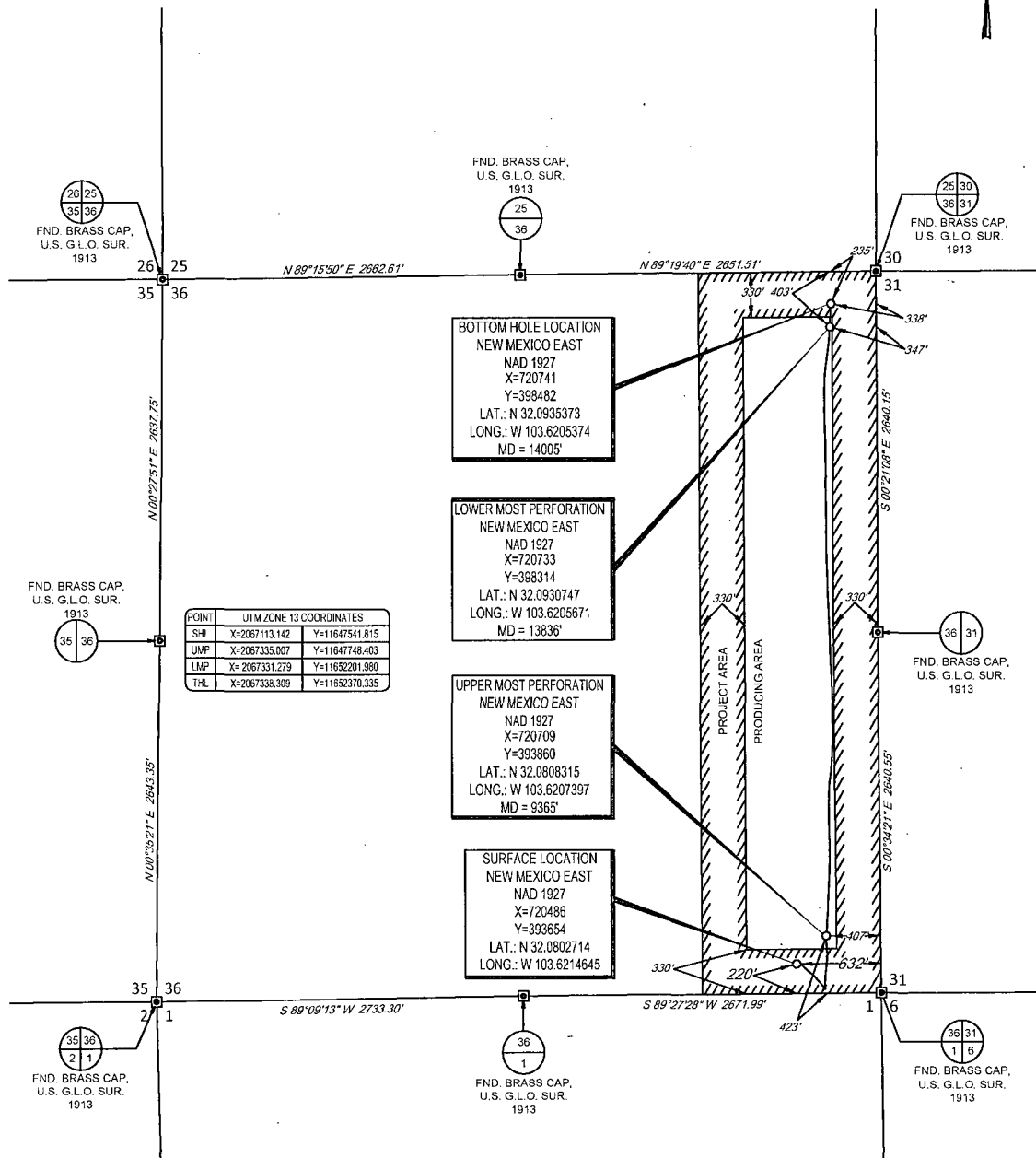
Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,257.9	9,141.8	112.7	226.0	HL Crossing, MD:9257.9', TVD:9141.8', N/S:112.7', E/W:226.0', INC:55.37
13,910.4	9,184.4	4,732.6	250.7	HL Crossing, MD:13910.4', TVD:9184.4', N/S:4732.6', E/W:250.7', INC:95.17
13,946.0	9,181.2	4,768.0	252.3	Last MWD Survey
14,006.0	9,175.6	4,827.7	255.3	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 36, TOWNSHIP 25-S, RANGE 32-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



POINT	UTM ZONE 13 COORDINATES
SHL	X=2067113.142 Y=11647541.815
UNP	X=2067335.007 Y=11647748.403
IMP	X=2067331.279 Y=11652201.980
THL	X=2067338.309 Y=11652370.335

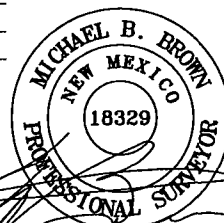
LEASE NAME & WELL NO.: GEM 36 STATE COM # 1H
SECTION 36 TWP 25-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3376'
DESCRIPTION 220' FSL & 632' FEL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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WWW.TOPOGRAPHIC.COM

geog resources, inc.



Michael Blake Brown, P.S. No. 18329
MARCH 31, 2015

GEM 36 STATE COM # 1H AS-COMPLETED	REVISION:	
	INT	DATE
DATE: 03/31/15		
FILE: AD_GEM36STATECOM_1H		
DRAWN BY: E.A.H.		
SHEET: 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY GEO RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.