



HOBBS OCD
JUN 20 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#102H

OH

Design: OH

Midland PVA

01 April, 2019



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Gem 36 State Com Well: #102H Wellbore: OH Design: OH		Local Co-ordinate Reference: Well #102H TVD Reference: KB = 25 @ 3451.0usft MD Reference: KB = 25 @ 3451.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14	
Project Lea County, NM (NAD 83 NME)			
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone		System Datum: Mean Sea Level	
Site Gem 36 State Com			
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 393,686.00 usft Easting: 759,213.00 usft Slot Radius: 13-3/16 "	
		Latitude: 32° 4' 49.331 N Longitude: 103° 37' 47.552 W Grid Convergence: 0.37 °	
Well #102H			
Well Position +N-S 0.0 usft +E-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 398,435.00 usft Easting: 760,595.00 usft Wellhead Elevation: usft	
		Latitude: 32° 5' 36.235 N Longitude: 103° 37' 31.127 W Ground Level: 3,426.0 usft	
Wellbore OH			
Magnetics			
Model Name	Sample Date	Declination (°)	Dip Angle (°)
IGRF2015	1/14/2019	6.80	59.91
Field Strength (nT) 47,692.86567729			
Design OH			
Audit Notes:			
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0	
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)
	0.0	0.0	0.0
			Direction (°) 177.40
Survey Program Date 4/1/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
133.0	14,228.0	Newsco MWD (OH)	MWD
			Description OWSG MWD - Standard



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Site:	Gem 36 State Com	MD Reference:	KB = 25 @ 3451.0usft
Well:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	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	0.00	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
133.0	0.50	177.00	133.0	-0.6	0.0	0.38	0.38	0.00	-0.6	0.0	
221.0	1.00	32.60	221.0	-0.3	0.5	1.63	0.57	-164.09	0.0	-0.8	
395.0	1.20	50.20	395.0	2.1	2.7	0.22	0.11	10.11	-3.4	-0.1	
569.0	1.80	55.50	568.9	4.8	6.3	0.35	0.34	3.05	-8.0	0.4	
760.0	2.00	42.00	759.8	9.0	11.0	0.26	0.10	-7.07	-14.1	-2.2	
853.0	2.00	48.40	852.7	11.3	13.3	0.24	0.00	6.88	-17.5	-0.4	
966.0	1.98	42.00	965.7	14.0	16.1	0.20	-0.04	-5.66	-21.2	-2.6	
1,129.0	1.00	359.40	1,128.6	17.5	18.0	0.86	-0.59	-26.13	-17.4	-18.1	
1,316.0	0.90	6.40	1,315.6	20.6	16.1	0.08	-0.05	3.74	-22.5	-15.7	
1,410.0	0.60	354.00	1,409.6	21.9	18.1	0.36	-0.32	-13.19	-19.8	-20.3	
1,598.0	0.70	356.40	1,597.6	24.0	18.0	0.06	0.05	1.28	-22.8	-19.4	
1,785.0	1.10	68.90	1,784.6	25.8	19.6	0.59	0.21	38.77	-27.5	17.0	
1,878.0	0.90	19.50	1,877.5	26.6	20.6	0.92	-0.22	-53.12	-32.1	-10.5	
2,065.0	1.60	27.40	2,064.5	30.5	22.3	0.38	0.37	4.22	-36.6	-5.7	
2,252.0	2.10	40.20	2,251.4	35.4	25.7	0.35	0.27	6.84	-32.6	1.8	
2,443.0	3.10	48.50	2,442.2	41.6	31.7	0.54	0.52	3.30	-24.6	1.8	
2,630.0	3.60	51.30	2,628.9	48.6	40.0	0.31	0.27	2.57	-19.8	-0.8	
2,817.0	6.20	55.40	2,815.2	58.2	52.9	1.40	1.39	2.19	-20.7	-5.2	
3,005.0	8.20	58.90	3,001.7	71.3	72.5	1.07	1.06	0.80	-29.4	-11.1	
3,191.0	7.90	44.90	3,185.9	87.6	92.6	0.92	-0.16	-8.45	-36.5	-23.1	
3,378.0	9.30	45.20	3,370.8	107.3	112.4	0.75	0.75	0.16	-48.7	-26.3	
3,472.0	8.20	49.70	3,463.7	117.0	122.9	1.38	-1.17	4.79	-57.1	-24.1	
3,568.0	6.70	51.20	3,556.9	124.8	132.3	1.61	-1.60	1.60	-62.1	-25.0	
3,660.0	6.80	48.70	3,650.2	131.9	140.8	0.33	0.11	-2.66	-64.1	-30.1	
3,753.0	6.50	54.80	3,742.6	138.6	149.2	0.82	-0.32	6.56	-70.2	-25.6	
3,846.0	6.00	58.80	3,835.0	144.1	157.7	0.71	-0.54	4.30	-74.6	-23.8	



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 MD Reference: KB = 25 @ 3451.0usft
 North Reference: Grid
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 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
3,939.0	6.10	64.60	3,927.5	148.8	168.3	0.67	0.11	6.24	-78.5	-19.8
4,033.0	7.20	69.90	4,020.9	152.9	176.3	1.34	1.17	5.64	-85.3	-17.0
4,127.0	7.40	72.40	4,114.1	156.8	187.6	0.40	0.21	2.66	-91.6	-18.2
4,220.0	5.40	60.90	4,206.6	160.7	187.2	2.54	-2.15	-12.37	-89.3	-41.0
4,314.0	4.20	28.10	4,300.2	165.9	202.6	3.13	-1.28	-34.89	-52.0	-84.4
4,408.0	5.10	33.30	4,393.9	172.4	206.6	1.06	0.96	5.53	-58.8	-78.1
4,502.0	5.50	63.00	4,487.5	178.0	212.9	2.92	0.43	31.60	-91.3	-41.8
4,595.0	6.40	91.90	4,580.1	179.8	222.0	3.32	0.97	31.08	-105.0	2.7
4,689.0	5.80	93.20	4,673.5	179.4	232.0	0.65	-0.64	1.38	-110.8	-1.6
4,708.0	5.60	82.80	4,692.4	179.3	233.9	1.07	-1.05	-2.11	-111.9	-4.1
4,799.0	5.50	90.80	4,783.0	179.0	242.7	0.24	-0.11	-2.20	-116.2	-14.6
4,892.0	4.50	61.60	4,875.7	180.7	250.3	2.90	-1.08	-31.40	-94.7	-75.7
4,986.0	5.10	11.50	4,869.4	186.5	254.4	4.36	0.64	-53.30	-1.9	-121.0
5,080.0	4.60	354.50	5,063.0	194.4	254.9	1.81	-0.53	-18.09	32.1	-112.4
5,174.0	5.70	330.70	5,156.7	202.2	252.2	2.53	1.17	-25.32	70.3	-84.3
5,267.0	6.50	325.40	5,249.2	210.6	247.0	1.05	0.86	-5.70	71.0	-70.4
5,361.0	6.10	323.10	5,342.6	218.9	241.0	0.50	-0.43	-2.45	66.3	-60.0
5,455.0	6.00	321.20	5,436.1	226.8	234.9	0.24	-0.11	-2.02	61.0	-50.1
5,548.0	5.80	321.40	5,528.6	234.2	228.9	0.22	-0.22	0.22	53.8	-42.6
5,642.0	6.10	318.50	5,622.1	241.7	222.7	0.45	0.32	-3.09	48.4	-32.2
5,735.0	6.30	317.60	5,714.5	249.2	215.9	0.24	0.22	-0.97	40.9	-23.7
5,828.0	5.80	314.40	5,807.0	256.1	209.3	0.83	-0.75	-3.44	34.1	-14.0
5,921.0	5.20	311.40	5,899.6	262.1	202.8	0.53	-0.43	-3.23	26.8	-7.4
6,014.0	4.40	291.50	5,892.3	266.2	196.4	1.97	-0.86	-21.40	19.8	2.6
6,107.0	4.70	288.50	6,085.0	268.7	189.4	0.41	0.32	-3.23	12.2	3.7
6,201.0	4.00	284.20	6,178.7	270.7	182.6	0.82	-0.74	-4.57	4.8	4.3
6,295.0	4.10	254.90	6,272.5	270.6	176.2	2.18	0.11	-31.17	-4.1	4.5



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6,388.0	2.30	250.30	6,385.3	269.1	171.2	1.95	-1.94	-4.95	-9.6		3.8
6,481.0	0.70	256.70	6,458.3	268.4	168.9	1.73	-1.72	6.88	-11.6		5.1
6,575.0	0.80	256.80	6,552.3	268.1	167.7	0.11	0.11	0.11	-12.8		5.1
6,762.0	0.80	278.20	6,739.3	268.0	165.1	0.16	0.00	11.44	-12.6		9.9
6,950.0	0.50	251.30	6,927.3	267.9	163.1	0.22	-0.16	-14.31	-17.7		2.6
7,137.0	0.80	251.00	7,114.3	267.2	161.1	0.16	0.16	-0.16	-19.8		2.5
7,324.0	1.10	236.50	7,301.2	265.8	158.3	0.20	0.16	-7.75	-22.9		-2.9
7,512.0	0.70	0.10	7,489.2	265.8	158.8	0.85	-0.21	65.74	10.1		22.2
7,700.0	0.40	9.40	7,677.2	267.7	158.9	0.17	-0.16	4.95	11.7		20.4
7,888.0	0.40	346.90	7,865.2	269.0	156.9	0.08	0.00	-11.97	1.8		23.1
8,076.0	0.30	14.90	8,053.2	270.1	156.9	0.10	-0.05	14.89	11.3		19.9
8,263.0	0.20	277.70	8,240.2	270.7	156.7	0.20	-0.05	-51.98	-21.4		8.3
8,381.0	0.10	293.70	8,358.2	270.7	156.4	0.09	-0.08	13.56	-18.6		13.9
8,569.0	0.30	334.30	8,546.2	271.2	156.0	0.12	0.11	21.60	-5.7		22.8
8,662.0	0.30	295.70	8,639.2	271.6	155.7	0.21	0.00	-41.51	-19.1		14.1
8,755.0	1.40	191.40	8,732.2	270.6	155.2	1.62	1.18	-112.15	-10.0		-22.2
8,848.0	8.80	187.10	8,824.8	262.4	154.1	7.96	7.96	-4.62	-11.8		-23.6
8,942.0	15.80	179.40	8,916.5	242.3	153.4	7.74	7.55	-8.19	-7.2		-25.9
9,036.0	21.50	177.10	9,005.5	212.2	154.4	6.01	5.96	-2.45	1.8		-25.1
9,130.0	29.80	181.10	9,090.2	171.6	154.8	9.02	8.83	4.28	13.5		-25.4
9,217.0	31.60	183.50	9,165.0	127.2	163.0	2.50	2.07	2.76	31.3		-26.5
9,311.0	48.50	182.10	9,236.7	67.0	160.2	18.00	17.98	-1.49	52.6		-32.1
9,405.0	67.60	180.20	9,286.2	-12.3	148.7	20.39	20.32	-2.02	59.4		-32.8
9,463.0	80.70	176.50	9,302.0	-68.0	150.4	23.40	22.59	-6.38	54.9		-30.8
9,595.0	93.80	174.80	9,308.4	-199.2	160.4	10.01	9.92	-1.29	34.9		-22.4
9,688.0	94.80	174.60	9,301.4	-291.5	169.0	1.10	1.08	-0.22	25.1		-14.6
9,783.0	94.70	177.20	9,293.5	-385.9	175.7	2.73	-0.11	2.74	15.6		-8.6



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9,878.0	93.10	178.80	9,287.2	-478.6	179.0	2.43	-1.72	1.72	7.8	-8.1
9,989.0	93.50	180.00	9,281.8	-571.5	179.9	1.36	0.43	1.29	0.8	-5.9
10,083.0	90.60	180.30	9,278.5	-665.4	179.7	3.10	-3.09	0.32	-4.1	-6.8
10,157.0	89.20	179.60	9,278.6	-759.4	179.8	1.67	-1.49	-0.74	-5.6	-7.5
10,251.0	87.00	178.20	9,281.8	-853.3	181.6	2.77	-2.34	-1.49	-4.0	-6.5
10,345.0	87.90	177.90	9,285.9	-947.2	184.8	1.01	0.96	-0.32	-1.5	-4.0
10,438.0	88.50	177.40	9,290.5	-1,040.0	188.6	1.60	-1.51	-0.54	1.8	-1.0
10,532.0	89.40	177.80	9,293.8	-1,133.8	192.5	3.11	3.09	0.43	4.0	2.2
10,626.0	90.20	180.20	9,294.2	-1,227.8	194.1	2.69	0.85	2.55	3.2	3.1
10,719.0	90.70	180.10	9,293.4	-1,320.8	193.9	0.55	0.54	-0.11	1.4	2.1
10,813.0	90.60	179.00	9,292.4	-1,414.8	194.6	1.17	-0.11	-1.17	-0.8	2.1
10,907.0	90.90	177.70	9,291.1	-1,508.7	197.3	1.42	0.32	-1.38	-3.1	4.0
11,001.0	89.90	177.90	9,290.5	-1,602.7	201.0	1.08	-1.06	0.21	-4.9	6.9
11,095.0	91.30	181.20	9,289.5	-1,696.7	201.7	3.81	1.49	3.51	-7.0	6.9
11,188.0	88.60	181.40	9,289.6	-1,789.6	199.6	2.91	-2.90	0.22	-8.0	4.0
11,282.0	88.80	180.90	9,291.7	-1,883.6	197.7	0.57	0.21	-0.53	-7.0	1.4
11,376.0	89.10	179.90	9,293.4	-1,977.6	197.0	1.11	0.32	-1.06	-6.4	0.0
11,469.0	90.20	179.90	9,294.0	-2,070.6	197.2	1.18	1.18	0.00	-6.5	-0.6
11,563.0	89.30	178.80	9,294.4	-2,164.5	198.3	1.51	-0.96	-1.17	-6.5	-0.3
11,656.0	89.60	178.70	9,295.3	-2,257.5	200.3	0.34	0.32	-0.11	-6.1	1.0
11,750.0	89.10	178.00	9,296.4	-2,351.5	203.0	0.92	-0.53	-0.74	-5.6	3.0
11,844.0	89.90	178.10	9,297.2	-2,445.4	206.2	0.86	0.85	0.11	-5.2	5.4
11,938.0	91.80	178.30	9,295.8	-2,539.4	209.2	2.03	2.02	0.21	-7.1	7.8
12,031.0	89.70	178.90	9,294.6	-2,632.3	211.4	2.35	-2.28	0.65	-8.8	9.1
12,124.0	88.10	178.10	9,298.0	-2,725.2	213.9	3.97	-3.87	-0.86	-5.9	10.8
12,218.0	85.10	177.50	9,305.2	-2,818.9	217.5	1.24	-1.06	-0.64	0.8	13.7
12,311.0	86.40	178.90	9,312.1	-2,911.5	220.4	2.05	1.40	1.51	7.2	15.8



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12,405.0	89.80	178.40	9,315.2	-3,005.5	222.6	3.66	3.62	-0.53	9.8	17.3	
12,488.0	89.30	176.30	9,315.9	-3,098.3	226.9	2.32	-0.54	-2.26	10.1	20.8	
12,592.0	91.10	177.80	9,315.6	-3,192.2	231.7	2.49	1.91	1.60	9.3	24.9	
12,687.0	92.70	179.70	9,312.5	-3,287.1	233.8	2.61	1.68	2.00	5.6	26.2	
12,780.0	91.20	180.70	9,309.3	-3,380.1	233.5	1.94	-1.61	1.08	2.0	25.2	
12,873.0	92.60	183.40	9,306.2	-3,473.0	230.1	3.27	1.51	2.90	-1.7	21.1	
12,967.0	89.30	183.70	9,304.7	-3,566.7	224.3	3.53	-3.51	0.32	-3.7	14.5	
13,061.0	91.00	184.70	9,304.4	-3,660.5	217.4	2.10	1.81	1.06	-4.4	6.9	
13,155.0	89.40	183.90	9,304.1	-3,754.2	210.4	1.80	-1.70	-0.85	-5.2	-0.9	
13,249.0	90.60	184.50	9,304.1	-3,848.0	203.5	1.43	1.28	0.64	-5.7	-8.5	
13,343.0	85.90	182.80	9,307.0	-3,941.7	197.5	5.32	-5.00	-1.81	-3.4	-15.3	
13,437.0	84.90	180.80	9,314.5	-4,035.3	194.6	2.37	-1.08	-2.13	3.7	-19.0	
13,530.0	87.00	179.20	9,321.1	-4,128.1	194.6	2.84	2.26	-1.72	9.8	-16.7	
13,624.0	88.10	179.50	9,325.1	-4,222.0	195.7	1.21	1.17	0.32	13.3	-18.4	
13,718.0	88.50	178.60	9,327.9	-4,316.0	197.2	1.05	0.43	-0.96	15.6	-18.6	
13,811.0	92.40	179.50	9,327.1	-4,408.9	198.8	4.30	4.19	0.97	14.4	-17.8	
13,905.0	89.00	180.30	9,326.0	-4,502.9	198.9	3.72	-3.62	0.85	12.8	-18.4	
13,998.0	85.30	178.40	9,330.6	-4,595.8	200.0	4.47	-3.98	-2.04	16.9	-18.1	
14,092.0	88.40	177.60	9,335.8	-4,689.5	203.2	3.41	3.30	-0.85	21.6	-15.5	
14,187.0	90.40	177.90	9,336.6	-4,784.5	206.2	2.70	2.67	0.40	22.0	-13.2	
14,228.0	90.40	177.90	9,336.1	-4,825.4	208.4	0.00	0.00	0.00	21.2	-11.4	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3451.0usft
Site:	Gem 38 State Com	MD Reference:	KB = 25 @ 3451.0usft
Well:	#102H	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)	
8,780.0	8,757.2	269.5	155.1	KOP, MD:8780.0', TVD:8757.2', N/S:269.5', E/W:155.1', INC:3.39
8,998.3	8,968.3	226.0	153.8	FTP Crossing, MD:8998.3', TVD:8968.3', N/S:226.0', E/W:153.8', INC:19.13
14,167.0	9,336.6	-4,784.5	206.2	Projection to Bit (MD=14167.0')
14,228.0	9,336.1	-4,825.4	208.4	Last MWD Survey (MD=14228.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Gem 36 State Com #102H

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: #102H

KB = 28 @ 3451.0surf 3428.0
Northing 358435.00 Easting 760595.00 Longitude 32° 0' 38.233 N 103° 37' 51.127 W

To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.50° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

SECTION DETAILS

Sec	MD	Inc	Asl	TVD	+N-S	+E-W	Dlog	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0		
3	2250.0	0.00	32.97	2282.97	0.1	3.8	2.00	82.87	4.0		
4	9774.0	0.00	32.97	9774.0	268.8	173.1	0.00	0.00	-23.8		
5	8024.0	0.00	0.00	8010.0	278.0	179.0	2.00	180.00	-342.0		
6	8768.0	0.00	0.00	8764.0	276.0	179.0	0.00	0.00	-342.0		
7	8577.8	83.22	179.54	8278.3	-228.0	183.1	11.00	178.84	283.4		
8	10324.2	83.22	179.54	8288.0	-82.3	183.1	0.00	0.00	1000.0		TOTW (Gem 36 State Com #102H)
9	10335.2	83.22	179.54	8288.2	-87.1	183.2	2.00	0.00	1014.8		TOTW (Gem 36 State Com #102H)
10	11337.4	83.22	179.54	8300.0	-189.3	187.3	0.00	0.00	2000.0		TOTW (Gem 36 State Com #102H)
11	11356.2	83.70	179.54	8300.2	-2014.1	187.3	2.00	0.00	2018.8		PEHL (Gem 36 State Com #102H)
12	14163.2	83.70	179.54	8316.0	-4841.0	225.0	0.00	0.00	4809.0		

CASING DETAILS

No casing data is available

WELLS TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
TOTW (Gem 36 State Com #102H)	8288.0	-82.3	183.1	358435.00	760764.00
TOTW (Gem 36 State Com #102H)	8300.0	-189.3	187.3	358433.70	760762.20
PEHL (Gem 36 State Com #102H)	8316.0	-4841.0	225.0	358384.00	760918.00
Stratigraphy Top (Gem 36 State Com #102H)	7462.0	278.0	179.0	358711.00	760774.00
FTP (Gem 36 State Com #102H)	8274.0	228.0	179.0	358681.00	760774.00

