



HOBBS OCD
APR 25 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Peachtree 24 Fed Com

#701H

OH

Design: OH

Midland PVA

30 January, 2019



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3401.0usft
 MD Reference: KB = 25 @ 3401.0usft
 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 Peachtree 24 Fed Com

Site Position: Northing: 372,756.00 usft Latitude: 32° 1' 19.840 N
 From: Map Easting: 793,433.00 usft Longitude: 103° 31' 11.665 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.43 "

Well #701H

Well Position +N-S 0.0 usft Northing: 372,756.00 usft Latitude: 32° 1' 19.840 N
 +E-W 0.0 usft Easting: 793,433.00 usft Longitude: 103° 31' 11.665 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)
	IGRF2015	12/13/2018	6.75	59.87	47,670.96129773

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)	Direction (°)
	0.0	0.0	0.0	1.82

Survey Program Date 1/30/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
144.0	22,684.0	Leam MWD (OH)	MWD	OWSG MWD - Standard



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0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
144.0	0.40	240.20	144.0	-0.2	-0.4	0.28	0.28	0.00	-0.5	0.0
230.0	0.40	240.20	230.0	-0.5	-1.0	0.00	0.00	0.00	-1.1	0.0
318.0	0.60	314.20	318.0	-0.4	-1.6	0.71	0.23	84.09	-0.8	1.4
405.0	0.60	314.20	405.0	0.3	-2.2	0.00	0.00	0.00	-1.8	1.4
490.0	0.70	6.80	490.0	1.1	-2.5	0.69	0.12	61.88	-0.8	2.6
577.0	0.50	333.90	577.0	1.9	-2.6	0.45	-0.23	-37.82	-2.9	1.4
674.0	0.80	320.20	674.0	2.9	-3.2	0.35	0.31	-14.12	-4.2	0.6
766.0	0.80	320.20	766.0	3.8	-4.0	0.00	0.00	0.00	-5.5	0.6
858.0	1.10	9.80	858.0	5.2	-4.3	0.92	0.33	53.91	-4.4	5.1
949.0	1.40	0.60	949.9	7.2	-4.1	0.40	0.33	-10.11	-7.1	4.2
1,033.0	1.40	352.90	1,032.9	9.2	-4.2	0.22	0.00	-9.17	-9.7	3.1
1,126.0	1.60	352.40	1,125.9	11.6	-4.5	0.22	0.22	-0.54	-12.1	3.0
1,219.0	1.60	351.70	1,218.8	14.2	-4.9	0.02	0.00	-0.75	-14.8	2.8
1,311.0	1.30	345.70	1,310.8	16.5	-5.3	0.37	-0.33	-6.52	-17.3	1.1
1,404.0	1.20	349.80	1,403.8	18.5	-5.8	0.15	-0.11	4.52	-19.2	2.4
1,496.0	1.20	358.30	1,495.8	20.4	-6.0	0.19	0.00	9.13	-20.5	5.4
1,589.0	1.10	353.80	1,588.7	22.2	-6.1	0.14	-0.11	-4.84	-22.8	3.7
1,683.0	1.10	347.40	1,682.7	24.0	-6.4	0.13	0.00	-6.81	-24.8	1.0
1,776.0	0.90	175.70	1,775.7	24.2	-6.5	2.14	-0.22	-184.62	24.6	-4.7
1,871.0	1.30	166.40	1,870.7	22.4	-6.2	0.46	0.42	-9.79	23.2	-0.8
1,964.0	1.30	187.80	1,963.7	20.3	-6.1	0.52	0.00	23.01	19.3	-8.8
2,058.0	1.30	188.00	2,057.7	18.2	-6.4	0.00	0.00	0.21	17.1	-8.9
2,152.0	1.50	187.80	2,151.6	15.9	-6.7	0.21	0.21	-0.21	14.8	-8.8
2,246.0	1.40	192.60	2,245.6	13.6	-7.1	0.17	-0.11	5.11	11.7	-9.9
2,339.0	2.80	138.30	2,338.6	10.9	-6.0	2.27	1.29	-58.39	12.1	2.8
2,433.0	4.50	125.60	2,432.4	7.1	-1.6	2.18	2.02	-13.51	5.4	4.9



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2,526.0	5.70	118.90	2,525.0	2.8	5.4	1.44	1.29	-7.20	-3.3	5.1
2,714.0	5.50	123.10	2,712.1	-6.6	21.2	0.24	-0.11	2.23	-13.7	4.0
2,807.0	4.90	118.80	2,804.7	-11.0	28.4	0.77	-0.65	-4.62	-14.6	1.3
2,901.0	6.20	111.50	2,898.3	-14.8	36.6	1.57	1.38	-7.77	-15.5	-1.4
2,995.0	6.90	108.60	2,891.7	-18.4	46.7	0.82	0.74	-3.09	-18.0	-2.4
3,088.0	7.40	108.00	3,083.9	-22.1	57.7	0.54	0.54	-0.65	-21.5	-2.6
3,182.0	7.90	106.40	3,177.1	-25.8	69.6	0.58	0.53	-1.70	-25.7	-3.0
3,276.0	8.40	104.70	3,270.2	-29.3	82.5	0.59	0.53	-1.81	-30.8	-3.3
3,369.0	6.90	104.30	3,362.3	-32.4	94.5	1.61	-1.61	-0.43	-35.1	-3.0
3,463.0	5.70	103.80	3,455.8	-34.9	104.5	1.28	-1.28	-0.53	-37.2	-2.6
3,558.0	5.50	109.60	3,550.3	-37.8	113.3	0.63	-0.21	6.11	-38.3	1.5
3,651.0	5.20	110.80	3,642.9	-40.6	121.5	0.34	-0.32	1.29	-38.8	2.2
3,745.0	5.90	99.90	3,738.5	-42.9	130.2	1.34	0.74	-11.60	-39.4	-4.7
3,839.0	6.80	97.00	3,829.9	-44.4	140.5	1.02	0.96	-3.09	-41.5	-5.3
3,933.0	5.00	103.10	3,923.4	-46.1	150.0	2.03	-1.91	6.49	-43.3	0.6
4,028.0	4.10	101.90	4,016.1	-47.7	157.2	0.97	-0.97	-1.29	-42.7	0.6
4,119.0	4.60	91.70	4,108.8	-48.5	164.2	0.99	0.54	-10.97	-41.4	-5.2
4,213.0	3.60	109.40	4,202.6	-49.5	170.7	1.70	-1.08	18.83	-39.3	8.7
4,306.0	2.50	120.30	4,295.4	-51.5	175.3	1.33	-1.18	11.72	-33.9	14.9
4,399.0	1.70	107.70	4,388.4	-53.0	178.3	0.99	-0.86	-13.55	-31.6	6.9
4,493.0	2.90	105.60	4,482.3	-54.0	181.9	1.28	1.28	-2.23	-27.4	6.1
4,587.0	4.60	106.30	4,576.1	-55.7	187.8	1.81	1.81	0.74	-25.3	6.9
4,680.0	6.00	105.40	4,668.7	-58.1	196.1	1.51	1.51	-0.97	-25.9	6.9
4,774.0	5.10	107.00	4,762.3	-60.6	204.8	0.97	-0.96	1.70	-26.6	8.0
4,868.0	4.90	111.70	4,855.9	-63.3	212.6	0.48	-0.21	5.00	-25.8	10.1
4,961.0	6.60	121.20	4,948.4	-67.5	220.8	2.09	1.83	10.22	-25.2	13.1
5,055.0	7.50	119.10	5,041.7	-73.3	230.8	1.00	0.96	-2.23	-29.1	10.5



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5,149.0	4.70	115.10	5,135.2	-77.9	239.7	3.01	-2.98	-4.26	-31.6	7.2
5,242.0	4.00	111.20	5,227.9	-80.7	248.1	0.82	-0.75	-4.19	-31.0	4.4
5,336.0	3.50	111.00	5,321.7	-83.0	251.9	0.53	-0.53	-0.21	-29.0	4.0
5,431.0	3.30	112.80	5,416.5	-85.1	257.1	0.24	-0.21	1.89	-26.2	4.4
5,525.0	3.40	108.20	5,510.4	-87.0	262.2	0.31	0.11	-4.89	-23.7	2.2
5,619.0	3.30	107.30	5,604.2	-88.6	267.5	0.12	-0.11	-0.96	-21.1	2.0
5,712.0	3.50	98.50	5,697.1	-89.9	272.8	0.60	0.22	-8.46	-18.6	-0.2
5,805.0	3.30	94.50	5,789.9	-90.5	278.3	0.33	-0.22	-4.30	-16.2	0.3
5,899.0	3.30	96.10	5,883.7	-91.0	283.7	0.10	0.00	1.70	-13.6	2.7
5,992.0	3.60	91.90	5,976.6	-91.4	289.3	0.42	0.32	-4.52	-11.6	3.8
6,086.0	3.40	89.00	6,070.4	-91.4	295.0	0.28	-0.21	-3.09	-9.8	5.9
6,180.0	2.70	87.70	6,164.3	-91.7	300.0	0.89	-0.74	9.26	-5.7	9.3
6,272.0	2.60	93.40	6,256.2	-92.1	304.2	0.24	-0.11	-4.67	-2.9	10.8
6,365.0	3.30	81.50	6,348.0	-91.8	309.0	1.00	0.75	-12.80	-2.6	13.3
6,460.0	5.40	98.70	6,443.8	-92.1	316.1	2.58	2.21	18.11	2.5	15.7
6,553.0	6.30	99.80	6,536.3	-93.6	325.5	0.98	0.97	1.18	1.3	17.0
6,646.0	5.70	98.00	6,628.8	-95.1	335.1	0.68	-0.65	-1.94	-1.0	18.4
6,740.0	6.40	106.80	6,722.3	-97.3	344.7	1.23	0.74	9.36	0.2	19.4
6,834.0	6.60	110.80	6,815.6	-100.7	354.8	0.53	0.21	4.26	-0.9	19.4
6,928.0	6.60	106.30	6,909.0	-104.2	365.0	0.55	0.00	-4.79	-5.0	19.2
7,021.0	6.20	105.40	7,001.4	-107.0	375.0	0.44	-0.43	-0.97	-7.6	19.5
7,115.0	6.20	103.30	7,094.9	-109.5	384.8	0.24	0.00	-2.23	-10.3	19.9
7,207.0	5.10	103.30	7,188.4	-111.6	393.6	1.20	-1.20	0.00	-11.4	20.6
7,300.0	3.40	122.40	7,279.2	-114.0	400.0	2.35	-1.83	20.54	-2.6	22.7
7,394.0	1.20	152.00	7,373.1	-116.4	402.8	2.59	-2.34	31.49	11.3	16.9
7,487.0	1.20	152.00	7,466.1	-118.1	403.7	0.00	0.00	0.00	14.3	12.3
7,581.0	1.10	181.50	7,560.1	-119.9	404.1	0.63	-0.11	31.38	17.9	0.5



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7,875.0	1.00	180.10	7,854.1	-121.8	404.1	0.11	-0.11	-1.49	16.4	0.1
7,769.0	1.00	178.80	7,748.0	-123.2	404.1	0.02	0.00	-1.28	14.8	0.4
7,862.0	1.00	181.50	7,841.0	-124.9	404.1	0.05	0.00	2.80	13.1	-0.2
7,955.0	1.20	184.80	7,934.0	-126.6	404.0	0.23	0.22	3.55	11.3	-0.9
8,048.0	1.20	185.20	8,027.0	-128.8	403.8	0.01	0.00	0.43	9.4	-1.0
8,143.0	1.20	180.30	8,122.0	-130.5	403.6	0.11	0.00	5.37	7.3	-1.7
8,235.0	1.40	188.40	8,213.9	-132.8	403.2	0.22	0.22	-2.07	5.2	-1.5
8,329.0	1.70	180.60	8,307.9	-135.1	403.1	0.39	0.32	-8.30	2.9	-1.0
8,423.0	1.80	187.10	8,401.8	-137.9	402.6	0.54	0.11	17.55	-0.4	-1.3
8,516.0	0.30	358.70	8,494.9	-139.1	402.2	2.24	-1.61	173.78	1.1	1.8
8,610.0	0.50	358.20	8,588.9	-138.4	402.2	0.21	0.21	-0.53	0.4	1.9
8,703.0	0.20	304.70	8,681.9	-137.9	402.0	0.44	-0.32	-57.53	-1.7	1.1
8,797.0	0.40	196.40	8,775.9	-138.2	401.8	0.53	0.21	-115.21	-0.8	-2.1
8,890.0	0.60	192.90	8,868.9	-139.0	401.6	0.22	0.22	-3.76	-1.5	-2.1
8,984.0	1.00	211.70	8,962.8	-140.1	401.0	0.50	0.43	20.00	-3.4	-1.4
9,078.0	1.10	221.40	9,056.8	-141.5	400.0	0.22	0.11	10.32	-5.3	-0.7
9,171.0	1.10	227.40	9,149.8	-142.8	398.8	0.12	0.00	6.45	-7.1	0.0
9,265.0	1.50	244.60	9,243.8	-143.9	397.0	0.59	0.43	18.30	-8.9	2.3
9,359.0	1.40	252.70	9,337.8	-144.8	394.8	0.24	-0.11	8.62	-10.8	3.7
9,452.0	1.70	245.80	9,430.7	-145.7	392.4	0.38	0.32	-7.42	-13.7	2.3
9,546.0	1.50	293.10	9,524.7	-145.8	390.0	1.38	-0.21	50.32	-9.8	12.6
9,640.0	1.10	312.80	9,618.7	-144.7	388.2	0.63	-0.43	20.96	-7.0	15.6
9,733.0	1.40	328.60	9,711.6	-143.1	387.0	0.49	0.32	16.99	-4.5	17.2
9,826.0	2.00	322.30	9,804.6	-140.9	385.4	0.67	0.65	-6.77	-9.1	16.5
9,919.0	2.10	0.40	9,897.5	-137.9	384.4	1.44	0.11	40.97	0.0	19.6
10,013.0	1.90	7.30	9,991.5	-134.8	384.6	0.33	-0.21	7.34	-0.9	19.6
10,106.0	1.40	343.90	10,084.4	-132.0	384.5	0.89	-0.54	-25.16	-11.2	17.0



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10,200.0	1.30	308.80	10,178.4	-130.2	383.4	0.88	-0.11	-37.55	-21.0	8.8
10,294.0	1.40	283.30	10,272.4	-129.3	381.4	0.84	0.11	-26.91	-24.0	-3.3
10,387.0	1.10	280.50	10,365.4	-128.9	379.4	0.33	-0.32	-3.01	-25.8	-4.5
10,480.0	1.10	320.00	10,458.4	-128.0	378.0	0.80	0.00	42.47	-24.4	13.5
10,574.0	1.40	323.00	10,552.3	-126.4	376.7	0.33	0.32	3.19	-25.7	14.8
10,667.0	2.40	317.00	10,645.3	-124.1	374.7	1.09	1.08	-6.45	-30.2	11.9
10,760.0	1.20	308.20	10,738.2	-122.0	372.6	1.32	-1.29	-9.46	-34.5	8.9
10,854.0	1.10	326.70	10,832.2	-120.7	371.3	0.41	-0.11	19.68	-32.4	17.8
10,947.0	1.80	351.30	10,825.2	-118.5	370.6	0.99	0.75	26.45	-24.3	30.0
11,041.0	2.20	39.50	11,019.1	-115.6	371.6	1.78	0.43	51.28	3.4	39.3
11,134.0	2.50	94.80	11,112.1	-114.4	374.7	2.36	0.32	59.46	31.1	21.1
11,228.0	1.60	114.00	11,206.0	-115.1	378.0	1.19	-0.96	20.43	33.1	10.3
11,322.0	1.20	150.90	11,300.0	-116.5	379.6	1.03	-0.43	39.26	30.6	-10.9
11,415.0	2.40	218.60	11,392.9	-118.9	378.9	2.41	1.29	72.80	-0.7	-31.5
11,508.0	2.60	212.10	11,485.9	-122.2	376.6	0.37	0.22	-6.99	-1.2	-31.6
11,602.0	2.70	240.90	11,579.8	-125.1	373.5	1.41	0.11	30.84	-20.4	-26.1
11,695.0	2.40	282.40	11,672.7	-125.7	369.7	1.97	-0.32	44.62	-36.2	-4.6
11,789.0	3.80	272.20	11,766.5	-125.2	364.6	1.60	1.49	-10.85	-39.8	-11.3
11,883.0	3.70	265.40	11,860.3	-125.3	358.5	0.48	-0.11	-7.23	-44.3	-16.3
11,976.0	3.40	264.80	11,953.2	-125.8	352.8	0.33	-0.32	-0.65	-49.9	-16.8
12,116.0	3.30	276.40	12,092.9	-125.7	344.6	0.49	-0.07	8.29	-60.4	-5.6
12,210.0	8.40	0.60	12,188.5	-118.6	342.0	9.26	5.43	89.57	-18.6	62.3
12,257.0	18.60	15.60	12,232.2	-107.9	344.1	22.77	21.70	31.91	-12.2	65.7
12,303.0	29.10	18.60	12,274.2	-80.2	349.6	22.97	22.83	6.52	-23.4	65.3
12,350.0	33.00	20.10	12,314.4	-67.3	357.7	8.46	8.30	3.19	-38.7	62.9
12,397.0	36.60	24.00	12,353.0	-42.5	367.8	9.00	7.66	8.30	-51.0	59.7
12,444.0	41.00	17.10	12,389.7	-14.9	378.0	13.11	9.36	-14.68	-70.7	46.1



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #701H
 Wellbore: OH
 Design: OH

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 TVD Reference: KB = 25 @ 3401.0usft
 MD Reference: KB = 25 @ 3401.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,490.0	42.30	11.30	12,424.1	14.7	385.5	8.84	2.83	-12.61	-84.6	32.3
12,537.0	48.70	8.00	12,457.6	47.2	391.0	10.57	9.36	-7.02	-92.9	22.2
12,584.0	49.00	5.50	12,489.1	81.8	395.0	6.28	4.89	-5.32	-97.2	14.2
12,631.0	56.30	2.70	12,517.6	119.0	397.7	16.24	15.53	-5.96	-99.2	7.6
12,678.0	60.10	2.90	12,542.4	158.9	399.6	8.09	8.09	0.43	-99.6	4.9
12,725.0	63.70	3.80	12,564.5	200.3	402.0	7.84	7.66	1.91	-97.1	2.1
12,772.0	65.50	1.70	12,584.7	242.7	404.1	5.56	3.83	-4.47	-91.0	-2.1
12,819.0	67.70	357.80	12,603.3	285.8	403.9	8.94	4.68	-8.30	-81.0	-3.5
12,865.0	68.30	358.20	12,620.6	328.4	402.4	1.53	1.30	0.87	-67.2	-2.0
12,912.0	72.00	359.40	12,636.5	372.6	401.5	8.23	7.87	2.55	-51.4	-1.3
12,958.0	75.60	0.10	12,649.4	416.8	401.3	7.98	7.83	1.52	-38.6	-1.4
13,005.0	78.60	0.10	12,659.9	462.6	401.4	6.38	6.38	0.00	-28.1	-1.6
13,052.0	80.80	0.10	12,668.2	508.8	401.4	4.89	4.89	0.00	-19.7	-2.3
13,099.0	84.20	359.70	12,674.3	555.4	401.4	7.07	7.02	-0.85	-13.6	-2.5
13,146.0	86.70	359.20	12,678.0	602.3	400.9	5.42	5.32	-1.06	-9.9	-2.4
13,239.0	88.40	359.00	12,682.0	695.2	399.5	1.84	1.83	-0.22	-5.9	-1.6
13,333.0	87.70	358.50	12,685.2	789.1	397.4	0.91	-0.74	-0.53	-2.8	-0.3
13,426.0	91.50	359.00	12,685.9	882.1	395.4	4.12	4.09	0.54	-2.1	1.1
13,519.0	91.30	356.20	12,683.6	974.9	391.5	3.02	-0.22	-3.01	-4.4	4.3
13,613.0	88.10	353.40	12,684.1	1,068.5	383.0	4.52	-3.40	-2.98	-3.9	12.1
13,708.0	87.50	354.10	12,687.7	1,160.9	372.8	0.99	-0.65	0.75	-0.4	21.5
13,800.0	88.50	355.90	12,690.9	1,254.5	364.7	2.19	1.08	1.91	2.9	29.0
13,894.0	90.70	358.70	12,691.6	1,348.4	360.2	3.79	2.34	2.98	3.6	32.8
13,988.0	90.70	0.60	12,690.4	1,442.4	359.7	2.02	0.00	2.02	2.5	32.6
14,081.0	90.30	2.20	12,689.6	1,535.3	361.9	1.77	-0.43	1.72	1.7	29.7
14,175.0	89.40	1.90	12,689.9	1,629.3	365.3	1.01	-0.98	-0.32	1.9	25.6
14,268.0	90.20	2.00	12,690.2	1,722.2	368.5	0.87	0.88	0.11	2.2	21.8



Midland PVA

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 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	N/S (usft)	EAW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,362.0	91.10	2.00	12,688.1	1,816.1	371.7	0.96	0.96	0.00	1.1	17.8
14,455.0	89.60	2.40	12,688.6	1,909.1	375.3	1.67	-1.61	0.43	0.6	13.5
14,549.0	88.70	1.30	12,690.0	2,003.0	378.3	1.51	-0.96	-1.17	2.0	9.8
14,643.0	89.40	1.00	12,691.5	2,097.0	380.2	0.81	0.74	-0.32	3.5	7.2
14,737.0	90.50	0.80	12,691.6	2,181.0	381.7	1.19	1.17	-0.21	3.6	5.1
14,829.0	91.90	1.50	12,689.7	2,282.9	383.6	1.70	1.52	0.76	1.7	2.5
14,923.0	89.10	359.00	12,688.9	2,376.9	384.0	3.99	-2.98	-2.66	0.9	1.4
15,017.0	89.00	358.50	12,690.4	2,470.9	381.9	0.54	-0.11	-0.53	2.4	2.8
15,110.0	90.40	359.20	12,690.9	2,563.8	380.0	1.68	1.51	0.75	2.9	4.0
15,205.0	88.50	358.30	12,691.8	2,658.8	378.0	2.21	-2.00	-0.95	3.8	5.3
15,298.0	88.70	358.50	12,693.3	2,751.8	375.4	1.31	1.29	0.22	5.3	7.2
15,392.0	91.30	359.00	12,692.5	2,845.7	373.3	1.78	1.70	0.53	4.5	8.6
15,486.0	88.70	0.40	12,692.5	2,939.7	372.8	3.14	-2.77	1.49	4.5	8.4
15,579.0	89.30	0.80	12,694.1	3,032.7	373.8	0.78	0.65	0.43	6.1	6.7
15,673.0	90.10	1.20	12,694.6	3,128.7	375.4	0.95	0.85	0.43	6.6	4.4
15,767.0	90.60	1.70	12,694.0	3,220.7	377.8	0.75	0.53	0.53	6.0	1.3
15,861.0	91.40	2.00	12,692.4	3,314.6	380.9	0.91	0.85	0.32	4.4	-2.4
15,955.0	89.70	1.00	12,691.5	3,408.5	383.3	2.10	-1.81	-1.06	3.5	-5.6
16,049.0	90.50	1.30	12,691.3	3,502.5	385.2	0.91	0.85	0.32	3.3	-8.1
16,142.0	90.60	1.70	12,690.4	3,595.5	387.6	0.44	0.11	0.43	2.4	-11.3
16,236.0	88.00	358.20	12,691.5	3,689.5	387.6	4.64	-2.77	-3.72	3.5	-11.9
16,330.0	89.60	358.30	12,693.5	3,783.4	384.7	1.71	1.70	0.11	5.4	-8.7
16,423.0	90.00	358.90	12,693.8	3,876.4	382.4	0.78	0.43	0.65	5.6	-8.1
16,517.0	89.70	358.30	12,694.1	3,970.3	380.1	0.71	-0.32	-0.64	5.8	-6.5
16,611.0	89.40	359.00	12,694.8	4,064.3	377.9	0.81	-0.32	0.74	6.5	-5.0
16,705.0	89.60	358.30	12,695.6	4,158.3	375.7	0.77	0.21	-0.74	7.3	-3.5
16,798.0	90.10	357.30	12,695.9	4,251.2	372.1	1.20	0.54	-1.08	7.5	-0.6



Midland PVA

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 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
16,891.0	89.70	356.20	12,696.0	4,344.1	366.8	1.26	-0.43	-1.18	7.6	4.0
16,885.0	92.30	359.90	12,694.4	4,438.0	363.7	4.81	2.77	3.94	5.9	6.5
17,079.0	91.00	1.00	12,691.7	4,531.9	364.4	1.81	-1.38	1.17	3.2	5.1
17,173.0	90.00	0.60	12,690.9	4,625.9	365.7	1.15	-1.08	-0.43	2.3	3.0
17,266.0	90.00	1.00	12,690.9	4,718.9	367.0	0.43	0.00	0.43	2.3	1.1
17,360.0	87.90	359.90	12,692.6	4,812.9	367.7	2.52	-2.23	-1.17	3.9	-0.4
17,454.0	89.00	358.30	12,695.1	4,906.8	366.3	2.07	1.17	-1.70	6.4	0.4
17,548.0	91.80	358.90	12,694.5	5,000.8	364.0	3.05	2.98	0.64	5.7	2.0
17,642.0	92.30	358.90	12,691.1	5,094.7	362.2	0.53	0.53	0.00	2.3	3.1
17,735.0	92.40	0.10	12,687.3	5,187.6	361.4	1.29	0.11	1.29	-1.5	3.2
17,828.0	89.50	0.40	12,685.8	5,280.6	361.8	3.13	-3.12	0.32	-3.1	2.1
17,921.0	89.90	1.20	12,686.3	5,373.6	363.1	0.86	0.43	0.86	-2.7	0.2
18,015.0	89.20	1.90	12,687.0	5,467.5	365.6	1.05	-0.74	0.74	-2.0	-3.1
18,108.0	91.10	3.10	12,686.6	5,560.4	369.7	2.42	2.04	1.29	-2.4	-7.8
18,202.0	90.40	1.30	12,685.5	5,654.4	373.3	2.05	-0.74	-1.91	-3.8	-12.1
18,296.0	88.30	359.70	12,686.6	5,748.3	374.1	2.81	-2.23	-1.70	-2.9	-13.6
18,389.0	92.20	1.00	12,686.2	5,841.3	374.7	4.42	4.19	1.40	-3.4	-14.9
18,483.0	88.40	1.90	12,685.7	5,935.3	377.0	4.15	-4.04	0.96	-4.1	-18.0
18,577.0	88.60	1.50	12,688.2	6,029.2	379.8	0.48	0.21	-0.43	-1.8	-21.5
18,670.0	90.80	359.70	12,688.6	6,122.2	380.8	3.08	2.37	-1.94	-1.5	-23.1
18,764.0	89.00	359.70	12,688.8	6,216.2	380.3	1.91	-1.91	0.00	-1.5	-23.3
18,858.0	89.80	358.00	12,689.6	6,310.2	378.4	2.00	0.85	-1.81	-0.6	-22.1
18,952.0	90.50	358.20	12,689.5	6,404.1	375.3	0.77	0.74	0.21	-1.0	-19.7
19,045.0	90.00	358.30	12,689.1	6,497.1	372.5	0.55	-0.54	0.11	-1.6	-17.6
19,138.0	90.80	359.40	12,688.5	6,590.0	370.6	1.46	0.86	1.18	-2.4	-16.4
19,231.0	89.70	359.40	12,688.1	6,683.0	369.8	1.18	-1.18	0.00	-3.0	-16.1
19,324.0	89.30	0.10	12,688.9	6,776.0	369.2	0.87	-0.43	0.75	-2.3	-16.4



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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)
19,417.0	90.80	0.40	12,688.8	6,868.0	369.6	1.64	1.61	0.32	-2.6	-17.5
19,511.0	88.30	357.30	12,689.6	6,963.0	367.7	4.24	-2.66	-3.30	-2.0	-16.3
19,604.0	91.30	357.80	12,689.9	7,055.9	363.8	3.27	3.23	0.54	-1.9	-13.0
19,698.0	87.50	359.20	12,690.9	7,149.8	361.3	4.31	-4.04	1.49	-1.0	-11.2
19,791.0	88.20	359.00	12,694.3	7,242.7	359.8	0.78	0.75	-0.22	2.3	-10.5
19,884.0	88.50	359.40	12,697.0	7,335.7	358.5	0.54	0.32	0.43	4.8	-8.8
19,978.0	90.20	358.70	12,698.1	7,429.7	357.0	1.88	1.81	-0.74	5.7	-9.0
20,072.0	91.20	358.90	12,698.9	7,523.6	353.4	2.19	1.06	-1.91	4.4	-6.1
20,166.0	90.20	358.90	12,695.8	7,617.5	349.9	2.38	-1.06	2.13	3.1	-3.3
20,259.0	89.90	359.70	12,695.7	7,710.5	348.8	0.92	-0.32	0.86	2.9	-2.9
20,353.0	90.80	0.10	12,695.1	7,804.5	348.6	1.05	0.96	0.43	2.1	-3.4
20,477.0	91.40	1.20	12,692.8	7,828.5	350.0	1.01	0.48	0.89	-0.5	-5.7
20,541.0	90.20	1.00	12,691.9	7,892.5	351.3	1.90	-1.87	-0.31	-1.5	-7.4
20,634.0	89.80	2.20	12,691.9	8,085.4	353.9	1.36	-0.43	1.29	-1.6	-10.7
20,727.0	91.20	0.80	12,691.1	8,178.4	356.3	2.13	1.51	-1.51	-2.6	-13.8
20,821.0	88.70	1.00	12,691.1	8,272.4	357.8	2.67	-2.66	0.21	-2.8	-16.0
20,915.0	91.00	2.40	12,691.4	8,366.3	360.6	2.88	2.45	1.49	-2.5	-19.5
21,008.0	89.00	2.90	12,691.4	8,459.2	364.9	2.22	-2.15	0.54	-2.7	-24.5
21,102.0	90.40	0.80	12,691.9	8,553.1	367.9	2.68	1.49	-2.23	-2.4	-28.2
21,196.0	88.30	358.20	12,692.1	8,647.1	367.1	3.00	-1.17	-2.77	-2.3	-28.1
21,289.0	91.40	359.00	12,691.6	8,740.1	364.8	2.42	2.28	0.86	-3.0	-26.5
21,383.0	86.40	359.00	12,693.4	8,834.0	363.2	5.32	-5.32	0.00	-1.3	-25.6
21,477.0	88.30	358.00	12,697.7	8,927.9	360.7	2.28	2.02	-1.06	2.9	-23.8
21,571.0	91.10	359.90	12,698.2	9,021.9	359.0	3.60	2.98	2.02	3.2	-22.8
21,665.0	90.30	0.10	12,697.0	9,115.9	359.0	0.88	-0.85	0.21	1.9	-23.5
21,758.0	90.40	0.80	12,696.5	9,208.8	359.7	0.78	0.11	0.75	1.2	-24.9
21,852.0	88.70	359.00	12,696.4	9,302.8	359.5	2.05	-0.74	-1.91	1.0	-25.4



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MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
21,945.0	90.20	359.60	12,698.5	9,395.8	358.4	0.84	0.54	0.65	0.9	-25.0
22,039.0	90.50	359.70	12,695.9	9,489.8	357.8	0.34	0.32	0.11	0.2	-25.1
22,133.0	92.00	0.80	12,693.9	9,583.8	358.2	1.88	1.60	1.17	-2.0	-26.2
22,226.0	89.30	0.10	12,692.8	9,676.8	359.0	3.00	-2.90	-0.75	-3.3	-27.6
22,320.0	90.20	0.40	12,693.2	9,770.8	359.4	1.01	0.98	0.32	-3.0	-28.7
22,414.0	88.50	0.30	12,694.3	9,864.8	360.0	1.81	-1.81	-0.11	-2.1	-30.0
22,508.0	91.40	1.50	12,694.4	9,958.7	361.4	3.34	3.09	1.28	-2.1	-32.2
22,620.0	92.20	1.90	12,690.8	10,070.6	364.8	0.80	0.71	0.36	-5.8	-36.3
22,694.0	92.20	1.90	12,688.0	10,144.5	367.2	0.00	0.00	0.00	-8.7	-39.3

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E-W (usft)	
12,168.0	12,144.8	-123.4	342.5	KOP, MD:12168.0', TVD:12144.8', N/S:-123.4', EW:342.5', INC:5.02
12,307.7	12,278.3	-88.0	350.4	FTP Crossing, MD:12307.7', TVD:12278.3', N/S:-88.0', EW:350.4', INC:29.49
22,620.0	12,690.8	10,070.6	364.8	Last MWD Survey (MD=22620.0')
22,694.0	12,688.0	10,144.5	367.2	Projection to Bit (MD=22694.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Peachtree 24 Fed Com #701H

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: #701H

KB = 25 @ 3401.0usft
Northing 372798.00 Easting 793433.00 Latitude 32° 1' 19.845 N Longitude 103° 31' 11.683 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2750.0	5.00	108.86	2749.7	-3.6	10.3	2.00	108.86	-3.2	
4	7397.3	5.00	108.86	7379.3	-134.5	393.7	0.00	0.00	-121.9	
5	7647.3	0.00	0.00	7629.0	-138.0	404.0	2.00	180.00	-125.1	
6	12228.8	0.00	0.00	12210.5	-138.0	404.0	0.00	0.00	-125.1	
7	12978.8	90.00	359.58	12688.0	339.4	400.5	12.00	359.58	-352.0	
8	16129.3	90.00	359.58	12688.0	3489.8	377.2	0.00	0.00	3500.0	TGT#1(PT 24 Fed Com #701H)
9	16130.7	89.97	359.58	12688.0	3491.2	377.1	2.00	180.00	3501.4	TGT#2(PT 24 Fed Com #701H)
10	18130.7	89.97	359.58	12689.0	5491.2	362.3	0.00	0.00	5500.0	TGT#3(PT 24 Fed Com #701H)
11	18134.3	89.90	359.58	12689.0	5494.7	362.3	2.00	-180.00	5503.5	
12	20432.6	89.90	359.58	12693.0	7793.0	345.3	0.00	0.00	7800.0	PBHL(PT 24 Fed Com #701H)
13	20432.6	89.91	359.58	12693.0	7793.3	345.3	2.00	0.00	7800.4	
14	22908.7	89.91	359.58	12697.0	10267.0	327.0	0.00	0.00	10272.2	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT#1(PT 24 Fed Com #701H)	12688.0	3489.8	377.2	372845.80	793310.15
TGT#2(PT 24 Fed Com #701H)	12689.0	5491.2	362.3	372847.20	793785.34
TGT#3(PT 24 Fed Com #701H)	12693.0	7793.0	345.3	382545.00	793778.31
PBHL(PT 24 Fed Com #701H)	12687.0	10267.0	327.0	382023.00	793780.00
Brushy Top(PT 24 Fed Com #701H)	7899.0	-138.0	404.0	372818.00	793837.00
FTW(PT 24 Fed Com #701H)	12688.0	-88.0	404.0	372688.00	793837.00

