

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Peachtree 24 Fed Com

#705H

OH

Design: OH

Midland PVA

05 August, 2019



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25 @ 3382.0usft
 MD Reference: KB = 25 @ 3382.0usft
 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 Eastem 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' 11.685 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well #705H

Well Position	+N-S	0.0 usft	Northing:	372,823.00 usft	Latitude:	32° 1' 20.668 N
	+E-W	0.0 usft	Easting:	791,200.00 usft	Longitude:	103° 31' 37.595 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,357.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/7/2017	8.88	59.88	47,783.15038334

Design OH

Audit Notes:		Phase:	ACTUAL	Tie On Depth:	0.0
Version:	1.0				
Vertical Section:		Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
		0.0	0.0	0.0	2.85

Survey Program Date 8/5/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
194.0	22,883.0	Pro MWD (OH)	MWD	OWSG MWD - Standard



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MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulid (°/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
184.0	0.80	333.80	194.0	1.2	-0.6	0.41	0.41	0.00	-1.4	0.0
220.0	0.80	341.90	220.0	1.6	-0.7	0.43	0.00	31.15	-1.7	0.2
303.0	1.10	334.20	303.0	2.8	-1.3	0.39	0.36	-9.28	-3.1	-0.1
388.0	1.00	336.00	388.0	4.2	-1.9	0.12	-0.12	2.12	-4.6	0.0
473.0	0.80	357.50	473.0	5.5	-2.2	0.46	-0.24	25.29	-5.6	2.0
571.0	0.70	346.30	570.9	6.8	-2.4	0.18	-0.10	-11.43	-7.1	0.7
665.0	0.10	338.10	664.9	7.4	-2.6	0.64	-0.64	-8.72	-7.8	-0.4
759.0	0.30	258.60	758.9	7.4	-2.9	0.32	0.21	-84.57	-1.3	-7.8
853.0	0.20	213.60	852.9	7.2	-3.2	0.23	-0.11	-47.87	4.3	-8.7
908.0	0.50	283.10	905.9	7.1	-3.5	0.75	0.57	93.40	-2.6	-7.5
1,038.0	0.10	20.20	1,037.9	7.2	-4.0	0.42	-0.30	88.71	-5.4	6.5
1,132.0	1.90	110.33	1,131.9	6.7	-2.5	2.02	1.91	95.88	7.7	5.4
1,225.0	4.10	116.80	1,224.8	4.7	1.9	2.39	2.37	6.98	9.2	4.0
1,319.0	4.30	119.10	1,318.5	1.4	8.0	0.28	0.21	2.45	11.2	2.4
1,413.0	5.60	104.80	1,412.2	-1.4	15.5	1.90	1.38	-15.21	12.0	5.1
1,507.0	5.80	106.50	1,505.7	-4.0	24.5	0.28	0.21	1.81	12.6	5.5
1,600.0	5.50	111.10	1,598.3	-6.9	33.1	0.58	-0.32	4.95	13.6	4.7
1,694.0	7.30	107.50	1,691.7	-10.3	43.0	1.96	1.91	-3.83	12.6	5.8
1,789.0	7.70	106.80	1,785.9	-14.0	54.9	0.43	0.42	-0.74	10.1	6.4
1,882.0	8.00	109.60	1,878.0	-17.8	67.0	0.52	0.32	3.01	7.4	6.3
1,975.0	8.10	109.30	1,970.1	-22.3	79.2	0.12	0.11	-0.32	4.0	6.5
2,069.0	8.20	111.70	2,063.1	-26.9	91.7	0.38	0.11	2.55	0.8	6.3
2,163.0	8.10	110.20	2,156.2	-31.7	104.2	0.25	-0.11	-1.60	-2.9	6.2
2,257.0	8.30	110.60	2,249.2	-36.4	116.7	0.22	0.21	0.43	-6.5	6.2
2,351.0	8.70	110.80	2,342.2	-41.3	129.7	0.43	0.43	0.21	-10.5	6.1
2,445.0	9.10	111.60	2,435.1	-46.6	143.3	0.45	0.43	0.85	-15.2	6.1



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (*1000usft)	Build (*1000usft)	Turn (*1000usft)	High to Plan (usft)	Right to Plan (usft)
2,539.0	9.40	112.20	2,527.8	-52.2	157.3	0.34	0.32	0.64	-20.5	6.0
2,633.0	9.90	113.40	2,620.5	-58.3	171.8	0.57	0.53	1.28	-26.3	6.0
2,727.0	10.20	113.30	2,713.1	-64.8	188.9	0.32	0.32	-0.11	-33.0	5.4
2,822.0	10.30	115.10	2,806.5	-71.7	202.3	0.35	0.11	1.89	-39.9	5.9
2,917.0	10.50	114.30	2,900.0	-78.9	217.9	0.26	0.21	-0.84	-47.3	4.5
3,011.0	10.90	114.80	2,992.4	-86.2	233.8	0.44	0.43	0.53	-55.0	4.2
3,106.0	11.30	115.90	3,085.6	-94.0	250.3	0.48	0.42	1.16	-63.4	4.4
3,199.0	9.20	98.70	3,177.1	-98.8	265.9	4.28	-2.26	-20.65	-68.0	-17.3
3,293.0	9.80	91.80	3,269.8	-100.0	281.3	1.07	0.64	-5.21	-72.5	-20.6
3,387.0	7.50	103.80	3,362.8	-101.7	295.3	3.10	-2.45	12.77	-79.4	-2.4
3,481.0	6.10	114.10	3,456.1	-105.2	305.8	1.97	-1.49	10.99	-79.8	12.2
3,575.0	6.00	112.80	3,549.6	-109.1	314.9	0.18	-0.11	-1.38	-80.1	9.9
3,669.0	5.90	115.50	3,643.1	-113.1	323.8	0.32	-0.11	2.87	-79.5	12.9
3,763.0	6.40	114.10	3,736.5	-117.3	332.9	0.56	0.53	-1.49	-80.1	10.2
3,857.0	7.10	111.30	3,829.9	-121.6	343.1	0.82	0.74	-2.98	-81.7	5.8
3,951.0	6.90	103.20	3,923.2	-125.0	354.0	1.07	-0.21	-8.62	-83.4	-5.3
4,045.0	6.70	91.60	4,016.5	-126.4	365.0	1.47	-0.21	-12.34	-82.3	-19.9
4,139.0	6.20	91.90	4,109.9	-126.7	375.6	0.53	-0.53	0.32	-83.6	-16.3
4,233.0	6.50	86.50	4,203.3	-126.6	385.9	0.71	0.32	-5.74	-83.1	-20.6
4,327.0	4.30	103.90	4,296.9	-127.1	394.7	2.89	-2.34	18.51	-84.3	7.7
4,421.0	3.80	108.30	4,390.7	-128.9	401.1	0.63	-0.53	4.68	-80.3	14.7
4,516.0	3.60	102.20	4,485.5	-130.5	407.0	0.46	-0.21	-6.42	-77.6	7.2
4,609.0	3.80	100.70	4,578.3	-131.7	412.8	0.24	0.22	-1.81	-74.2	6.7
4,704.0	5.40	112.50	4,673.0	-134.0	420.1	1.95	1.68	12.42	-68.9	21.9
4,797.0	5.80	116.30	4,765.6	-137.7	428.2	0.45	0.22	4.09	-66.5	25.6
4,891.0	6.10	121.70	4,859.1	-142.4	436.5	0.79	0.53	5.74	-63.8	30.2
4,984.0	6.90	124.70	4,951.5	-148.2	445.3	0.93	0.86	3.23	-63.2	31.3



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MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLag (*100usft)	Build (*100usft)	Turn (*100usft)	High to Plan (usft)	Right to Plan (usft)
5,078.0	4.30	110.90	5,045.0	-152.6	453.3	3.10	-2.77	-14.68	-68.0	14.0
5,171.0	3.60	103.80	5,137.8	-154.6	459.4	0.92	-0.75	-7.63	-65.9	6.1
5,265.0	3.00	103.90	5,231.7	-155.9	464.6	0.64	-0.64	0.11	-61.5	7.3
5,360.0	3.00	101.90	5,326.5	-157.0	469.5	0.11	0.00	-2.11	-56.9	6.5
5,454.0	3.00	97.40	5,420.4	-157.8	474.3	0.25	0.00	-4.79	-52.5	4.1
5,548.0	2.70	95.90	5,514.3	-158.3	478.9	0.33	-0.32	-1.60	-47.8	5.0
5,642.0	5.20	102.80	5,608.0	-159.5	485.3	2.70	2.66	7.34	-43.5	12.2
5,736.0	5.90	101.70	5,701.6	-161.4	494.2	0.75	0.74	-1.17	-43.1	12.8
5,830.0	5.70	103.10	5,795.1	-163.5	503.5	0.26	-0.21	1.49	-42.5	15.1
5,923.0	5.80	104.60	5,887.7	-165.7	512.5	0.19	0.11	1.61	-41.7	17.3
6,018.0	6.00	101.10	5,982.2	-167.9	522.0	0.43	0.21	-3.68	-42.7	16.0
6,112.0	6.20	98.60	6,075.6	-169.6	531.9	0.35	0.21	-2.66	-43.7	15.9
6,206.0	6.30	98.00	6,169.1	-171.0	542.0	0.13	0.11	-0.64	-44.5	17.5
6,300.0	5.90	95.60	6,262.5	-172.2	551.9	0.50	-0.43	-2.55	-45.6	17.9
6,394.0	5.30	95.40	6,356.1	-173.1	561.0	0.64	-0.64	-0.21	-45.4	20.2
6,488.0	5.20	93.90	6,449.7	-173.8	569.6	0.18	-0.11	-1.80	-45.0	21.6
6,582.0	3.50	112.10	6,543.4	-175.2	576.5	2.31	-1.81	19.36	-33.1	35.6
6,675.0	3.30	116.70	6,636.3	-177.5	581.5	0.36	-0.22	4.95	-26.0	37.2
6,769.0	3.40	119.60	6,730.1	-180.0	586.4	0.21	0.11	3.09	-19.9	37.0
6,863.0	3.50	119.40	6,823.9	-182.8	591.3	0.11	0.11	-0.21	-15.9	35.4
6,956.0	3.30	117.80	6,916.8	-185.5	596.2	0.24	-0.22	-1.72	-12.8	33.6
7,051.0	3.50	114.10	7,011.6	-187.9	601.2	0.31	0.21	-3.89	-11.9	31.9
7,145.0	3.20	130.40	7,105.4	-190.8	605.8	1.08	-0.32	17.34	-2.7	32.8
7,239.0	3.20	126.10	7,199.3	-194.2	609.9	0.08	0.00	-1.38	-6.3	31.9
7,332.0	1.00	208.20	7,292.2	-196.5	611.5	3.41	-2.37	85.05	28.8	14.6
7,426.0	0.80	228.00	7,386.2	-197.7	610.6	0.39	-0.21	21.06	30.6	4.3
7,520.0	0.90	234.10	7,480.2	-198.5	609.5	0.14	0.11	6.49	29.5	1.1



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7,614.0	1.10	238.50	7,574.2	-199.5	608.2	0.22	0.21	2.55	27.9	-0.1
7,707.0	1.10	256.20	7,667.2	-200.2	608.6	0.40	0.00	21.18	24.5	-9.2
7,801.0	1.20	248.70	7,761.2	-200.8	604.8	0.19	0.11	-7.98	23.6	-6.1
7,895.0	1.30	250.50	7,855.1	-201.5	602.9	0.11	0.11	1.91	21.4	-6.8
7,989.0	1.10	238.60	7,949.1	-202.3	601.1	0.34	-0.21	-12.68	20.3	-2.5
8,083.0	1.10	240.50	8,043.1	-203.2	599.5	0.04	0.00	2.02	18.5	-3.1
8,176.0	1.30	227.90	8,136.1	-204.4	598.0	0.35	0.22	-13.55	16.8	0.8
8,269.0	1.30	230.60	8,229.1	-205.7	596.4	0.07	0.00	2.90	14.7	0.1
8,363.0	1.50	225.00	8,323.0	-207.3	594.7	0.28	0.21	-5.98	12.3	1.4
8,456.0	1.30	219.70	8,416.0	-209.0	593.1	0.28	-0.22	-5.70	9.9	2.4
8,551.0	1.10	220.70	8,511.0	-210.5	591.9	0.21	-0.21	1.05	7.9	2.3
8,644.0	1.20	225.20	8,604.0	-211.8	590.6	0.14	0.11	4.84	6.2	1.7
8,738.0	1.30	218.80	8,697.9	-213.4	589.2	0.18	0.11	-6.81	3.9	2.3
8,833.0	1.30	223.00	8,792.9	-215.0	587.8	0.10	0.00	4.42	1.9	2.1
8,928.0	1.40	221.80	8,887.9	-216.6	586.3	0.11	0.11	-1.26	-0.4	2.1
9,021.0	1.50	214.90	8,980.9	-218.5	584.8	0.22	0.11	-7.42	-2.9	1.9
9,116.0	1.50	213.70	9,075.8	-220.5	583.4	0.03	0.00	-1.28	-5.5	1.8
9,211.0	1.50	216.90	9,170.8	-222.6	582.0	0.09	0.00	3.37	-7.9	2.2
9,303.0	1.60	223.70	9,262.8	-224.5	580.4	0.23	0.11	7.39	-10.0	3.2
9,398.0	1.70	220.60	9,357.7	-226.5	578.8	0.14	0.11	-3.26	-12.9	2.8
9,492.0	1.60	223.70	9,451.7	-228.5	576.8	0.14	-0.11	3.30	-15.5	3.4
9,587.0	1.20	233.30	9,546.6	-230.1	575.0	0.49	-0.42	10.11	-17.0	6.1
9,681.0	0.90	241.10	9,640.6	-231.0	573.6	0.35	-0.32	8.30	-17.7	6.5
9,775.0	0.80	263.60	9,734.6	-231.4	572.3	0.37	-0.11	23.94	-14.4	14.9
9,869.0	0.70	285.00	9,828.6	-231.4	571.1	0.31	-0.11	22.77	-9.2	19.4
9,963.0	0.90	253.90	9,922.6	-231.4	569.8	0.50	0.21	33.09	-19.1	11.6
10,057.0	0.70	269.60	10,016.6	-231.6	568.6	0.31	-0.21	16.70	-16.6	16.5



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10,151.0	1.00	267.20	10,110.6	-231.7	567.2	0.32	0.32	-2.55	-18.6	15.8
10,244.0	1.40	250.30	10,203.6	-232.1	565.3	0.57	0.43	-18.17	-24.3	9.4
10,339.0	1.60	251.00	10,298.5	-232.9	562.9	0.21	0.21	0.74	-26.7	9.8
10,433.0	2.40	270.00	10,392.5	-233.3	559.7	1.09	0.85	20.21	-25.3	18.3
10,527.0	2.00	267.90	10,486.4	-233.4	556.1	0.43	-0.43	-2.23	-29.5	17.3
10,621.0	1.20	286.10	10,580.4	-233.2	553.5	1.00	-0.65	19.36	-25.2	26.2
10,715.0	0.80	294.30	10,674.4	-232.6	551.9	0.36	-0.32	8.72	-22.9	29.7
10,808.0	0.80	281.00	10,767.3	-232.2	550.8	0.24	-0.11	-14.30	-30.5	23.4
10,903.0	1.10	293.10	10,862.3	-231.7	549.1	0.38	0.32	12.74	-26.5	29.4
10,997.0	1.20	298.00	10,956.3	-230.9	547.4	0.15	0.11	5.21	-25.7	31.7
11,091.0	1.50	291.70	11,050.3	-230.0	545.4	0.36	0.32	-6.70	-31.2	28.5
11,185.0	2.20	290.40	11,144.2	-228.9	542.6	0.75	0.74	-1.38	-34.9	27.8
11,279.0	2.10	296.00	11,238.2	-227.5	539.3	0.25	-0.11	5.96	-35.6	31.3
11,373.0	2.40	295.00	11,332.1	-225.9	536.0	0.32	0.32	-1.06	-39.8	30.6
11,467.0	3.50	294.40	11,426.0	-223.9	531.6	1.17	1.17	-0.64	-44.9	30.2
11,560.0	4.00	287.70	11,518.8	-221.7	525.9	0.71	0.54	-7.20	-54.2	24.4
11,654.0	2.00	278.80	11,612.6	-220.5	521.2	2.18	-2.13	-9.47	-62.2	15.2
11,791.0	1.40	285.10	11,749.6	-219.4	517.3	0.56	-0.44	11.90	-59.4	32.7
11,886.0	1.50	289.70	11,844.6	-218.5	515.1	0.18	0.11	-5.68	-64.6	26.9
11,981.0	1.20	294.40	11,939.5	-217.7	513.0	0.34	-0.32	4.95	-64.5	32.2
12,075.0	1.50	275.20	12,033.5	-217.2	510.9	0.57	0.32	-20.43	-73.6	8.9
12,169.0	1.10	195.60	12,127.5	-217.9	509.4	1.80	-0.43	-84.68	-23.1	-72.0
12,232.0	3.50	47.30	12,190.4	-217.2	510.7	7.10	3.81	-235.40	56.6	48.3
12,263.0	5.30	25.80	12,221.4	-215.3	512.0	7.76	5.81	-69.03	35.1	64.1
12,356.0	17.10	24.50	12,312.4	-198.9	519.6	12.69	12.69	-1.51	32.8	56.9
12,451.0	35.70	13.60	12,397.2	-158.9	532.0	20.16	19.58	-11.47	14.4	50.7
12,544.0	53.90	12.30	12,462.9	-95.2	546.5	19.59	19.57	-1.40	-5.9	38.8



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25 @ 3382.0usft
 MD Reference: KB = 25 @ 3382.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
12,838.0	60.20	8.10	12,514.0	-17.7	560.4	7.68	6.70	-4.47	-26.7	25.6
12,731.0	65.70	1.90	12,558.3	64.8	567.5	8.38	5.91	-6.67	-37.5	16.2
12,826.0	68.70	0.80	12,593.1	152.3	569.5	3.33	3.16	-1.16	-33.8	13.0
12,920.0	73.00	1.60	12,624.0	241.1	571.4	4.64	4.57	0.85	-16.3	10.5
12,956.0	81.10	3.00	12,632.0	276.1	572.8	22.82	22.50	3.89	-8.9	8.7
13,014.0	91.50	3.00	12,635.8	333.8	575.8	17.93	17.93	0.00	-5.3	5.1
13,108.0	90.40	0.80	12,634.2	427.7	578.9	2.62	-1.17	-2.34	-6.9	1.3
13,202.0	88.60	358.00	12,635.0	521.7	577.9	3.54	-1.91	-2.98	-6.1	1.6
13,295.0	91.60	359.30	12,634.9	614.7	575.8	3.52	3.23	1.40	-6.4	3.1
13,390.0	82.90	357.90	12,639.4	709.4	573.4	9.28	-9.16	-1.47	-1.9	4.7
13,484.0	88.10	358.10	12,646.8	803.1	570.2	5.54	5.53	0.21	5.4	7.3
13,578.0	88.50	358.10	12,649.6	897.0	567.1	0.43	0.43	0.00	6.1	9.7
13,672.0	89.10	357.70	12,651.6	990.9	563.6	0.77	0.64	-0.43	10.0	12.5
13,765.0	88.20	357.20	12,653.7	1,083.8	559.5	1.11	-0.97	-0.54	12.2	15.9
13,859.0	91.80	1.10	12,653.7	1,177.7	558.1	5.65	3.83	4.15	12.1	16.6
13,953.0	92.00	0.90	12,650.6	1,271.7	559.7	0.30	0.21	-0.21	8.9	14.3
14,046.0	92.00	1.20	12,647.3	1,366.6	561.5	0.32	0.00	0.32	5.5	11.8
14,141.0	89.60	0.80	12,646.0	1,459.6	563.1	2.62	-2.58	-0.43	4.2	9.5
14,234.0	89.70	0.60	12,646.6	1,552.6	564.2	0.24	0.11	-0.22	4.7	7.7
14,328.0	90.90	1.00	12,646.1	1,646.5	565.5	1.35	1.28	0.43	4.1	5.7
14,423.0	89.60	0.00	12,645.7	1,741.5	566.4	1.73	-1.37	-1.05	3.6	4.2
14,517.0	87.00	0.40	12,648.5	1,835.5	568.7	2.80	-2.77	0.43	6.3	3.1
14,611.0	87.30	0.20	12,653.1	1,929.4	567.2	0.38	0.32	-0.21	10.9	1.9
14,705.0	87.80	0.10	12,657.2	2,023.3	567.4	0.54	0.53	-0.11	14.9	1.0
14,800.0	91.60	1.60	12,657.7	2,118.2	568.8	4.30	4.00	1.58	15.3	-1.1
14,893.0	93.40	0.80	12,653.6	2,211.1	570.8	2.12	1.94	-0.86	11.2	-3.7
14,987.0	91.70	0.20	12,649.4	2,305.0	571.6	1.92	-1.81	-0.64	6.9	-5.3



Midland PVA

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 TVD Reference: KB = 25 @ 3382.0usft
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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (*1000usft)	Build (*1000usft)	Turn (*1000usft)	High to Plan (usft)	Right to Plan (usft)
15,081.0	91.60	0.40	12,646.7	2,399.0	572.1	0.24	-0.11	0.21	4.1	-6.4
15,188.0	88.80	0.10	12,646.3	2,516.0	572.6	2.41	-2.39	-0.26	3.8	-7.8
15,292.0	89.70	0.00	12,647.5	2,610.0	572.7	0.96	0.96	-0.11	4.8	-8.6
15,388.0	90.70	0.70	12,647.2	2,704.0	573.3	1.30	1.06	0.74	4.4	-8.9
15,480.0	88.60	0.10	12,647.8	2,798.0	573.9	2.32	-2.23	-0.64	4.9	-11.2
15,574.0	89.10	359.90	12,649.7	2,891.9	573.9	0.57	0.53	-0.21	6.7	-11.9
15,668.0	89.40	359.60	12,650.9	2,985.9	573.5	0.45	0.32	-0.32	7.9	-12.2
15,762.0	90.50	359.80	12,651.0	3,079.9	573.0	1.19	1.17	0.21	7.6	-12.4
15,858.0	91.60	0.10	12,649.3	3,173.9	572.9	1.21	1.17	0.32	5.5	-13.0
15,950.0	87.70	358.00	12,649.8	3,267.9	571.4	4.71	-4.15	-2.23	5.7	-12.2
16,043.0	88.00	358.00	12,653.3	3,360.7	568.1	0.32	0.32	0.00	8.8	-9.6
16,137.0	88.90	357.80	12,655.9	3,454.6	564.7	0.98	0.98	-0.21	11.0	-6.8
16,231.0	88.50	357.50	12,658.0	3,548.5	560.8	0.53	-0.43	-0.32	12.7	-3.7
16,325.0	91.70	358.00	12,657.8	3,642.5	557.1	3.45	3.40	0.53	12.2	-0.7
16,418.0	92.60	358.00	12,654.3	3,736.3	553.9	0.98	0.96	0.00	8.3	1.9
16,513.0	92.80	358.10	12,649.9	3,830.2	550.7	0.24	0.21	0.11	3.5	4.4
16,607.0	90.60	0.10	12,647.1	3,924.1	549.2	3.16	-2.34	2.13	0.3	5.2
16,701.0	90.10	0.40	12,646.5	4,018.1	549.6	0.62	-0.53	0.32	-0.6	4.1
16,795.0	90.10	0.70	12,646.3	4,112.1	550.5	0.32	0.00	0.32	-0.9	2.5
16,888.0	88.80	1.80	12,647.2	4,205.1	552.5	1.83	-1.40	1.18	-0.2	-0.3
16,982.0	89.00	1.70	12,649.0	4,299.0	555.4	0.24	0.21	-0.11	1.4	-3.8
17,075.0	89.80	2.00	12,650.2	4,392.0	558.4	0.72	0.65	0.32	2.3	-7.5
17,169.0	90.20	2.40	12,650.3	4,485.9	562.0	0.77	0.64	0.43	2.3	-11.8
17,263.0	89.90	2.30	12,650.3	4,579.8	565.9	0.34	-0.32	-0.11	2.1	-16.4
17,358.0	90.50	2.40	12,649.9	4,674.7	569.8	0.64	0.63	0.11	1.5	-21.0
17,452.0	90.90	2.40	12,648.8	4,768.6	573.7	0.43	0.43	0.00	0.2	-25.8
17,546.0	67.80	358.70	12,649.8	4,862.6	574.6	5.13	-3.30	-3.94	1.1	-27.2



Midland PVA

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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
17,840.0	87.90	358.40	12,653.4	4,956.5	572.2	0.34	0.11	-0.32	4.4	-25.5
17,734.0	88.10	358.20	12,656.7	5,050.4	569.4	0.30	0.21	-0.21	7.4	-23.4
17,829.0	89.50	357.90	12,658.6	5,145.3	566.2	1.51	1.47	-0.32	8.9	-20.9
17,823.0	89.90	357.70	12,659.1	5,239.3	562.6	0.48	0.43	-0.21	9.0	-18.0
18,018.0	90.00	357.30	12,659.2	5,332.2	558.5	0.44	0.11	-0.43	8.6	-14.6
18,109.0	89.60	357.10	12,659.5	5,425.1	554.0	0.48	-0.43	-0.22	8.6	-10.7
18,203.0	89.60	355.80	12,660.2	5,518.9	548.2	1.38	0.00	-1.38	8.8	-5.6
18,296.0	92.40	359.90	12,658.6	5,611.8	544.7	5.34	3.01	4.41	6.7	-2.8
18,391.0	93.10	0.30	12,654.0	5,708.6	544.9	0.85	0.74	0.42	1.8	-3.7
18,485.0	91.00	0.10	12,650.7	5,800.6	545.2	2.24	-2.23	-0.21	-2.0	-4.7
18,580.0	90.80	0.00	12,649.2	5,895.6	545.3	0.24	-0.21	-0.11	-3.9	-5.5
18,674.0	90.50	0.70	12,648.1	5,989.6	545.8	0.81	-0.32	0.74	-5.4	-6.8
18,769.0	90.90	1.80	12,646.9	6,084.5	547.9	1.23	0.42	1.16	-7.0	-9.8
18,863.0	89.80	0.50	12,646.4	6,178.5	549.8	1.81	-1.17	-1.38	-8.0	-12.1
18,956.0	90.50	1.10	12,646.1	6,271.5	551.1	0.99	0.75	0.65	-8.7	-14.1
19,051.0	87.20	359.90	12,648.0	6,366.5	551.9	3.70	-3.47	-1.26	-7.2	-15.7
19,145.0	87.90	0.00	12,652.0	6,460.4	551.9	0.75	0.74	0.11	-3.6	-16.3
19,239.0	88.00	359.70	12,655.4	6,554.3	551.6	0.34	0.11	-0.32	-0.7	-16.7
19,333.0	88.60	359.80	12,658.2	6,648.3	551.2	0.65	0.64	0.11	1.7	-17.0
19,428.0	88.30	359.20	12,660.8	6,743.2	550.4	0.71	-0.32	-0.63	3.8	-16.9
19,521.0	90.20	359.10	12,662.0	6,836.2	549.0	2.05	2.04	-0.11	4.6	-16.2
19,615.0	91.70	358.80	12,660.4	6,930.2	547.3	1.63	1.60	-0.32	2.6	-15.2
19,709.0	92.40	358.90	12,657.1	7,024.1	545.4	0.75	0.74	0.11	-1.0	-14.0
19,804.0	91.70	358.90	12,653.7	7,118.0	543.6	0.74	-0.74	0.00	-4.4	-12.8
19,898.0	92.10	358.70	12,650.5	7,212.9	541.6	0.48	0.43	-0.21	-7.6	-11.6
19,992.0	92.20	358.70	12,647.0	7,306.9	539.5	0.11	0.11	0.00	-11.1	-10.1
20,085.0	89.70	0.30	12,645.5	7,399.8	538.6	3.18	-2.69	1.72	-12.7	-10.0



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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)
20,178.0	89.00	0.50	12,646.5	7,492.8	539.3	0.78	-0.75	0.22	-11.7	-11.4
20,273.0	89.10	0.30	12,648.1	7,587.8	540.0	0.24	0.11	-0.21	-10.1	-12.7
20,367.0	90.50	0.70	12,648.4	7,681.8	540.8	1.55	1.49	0.43	-9.8	-14.2
20,460.0	90.40	359.90	12,647.7	7,774.8	541.3	0.87	-0.11	-0.86	-10.6	-15.4
20,554.0	90.70	359.30	12,646.8	7,868.8	540.6	0.71	0.32	-0.64	-11.5	-15.5
20,649.0	90.00	359.50	12,646.2	7,963.8	539.6	0.77	-0.74	0.21	-12.1	-15.2
20,743.0	90.60	0.30	12,645.7	8,057.8	539.5	1.08	0.64	0.85	-12.6	-15.7
20,837.0	89.50	0.30	12,645.6	8,151.8	539.9	1.17	-1.17	0.00	-12.7	-16.9
20,931.0	90.50	1.60	12,645.6	8,245.8	541.5	1.74	1.06	1.38	-12.8	-19.1
21,025.0	88.80	0.70	12,647.9	8,339.7	543.4	4.05	-3.94	-0.96	-10.8	-21.7
21,118.0	88.90	0.70	12,653.0	8,432.5	544.5	0.11	0.11	0.00	-5.5	-23.5
21,212.0	87.40	0.50	12,657.6	8,526.4	545.5	0.57	0.53	-0.21	-0.9	-25.2
21,306.0	87.60	0.90	12,661.7	8,620.3	546.7	0.48	0.21	0.43	3.2	-27.1
21,401.0	88.00	359.50	12,665.4	8,715.3	547.0	1.53	0.42	-1.47	6.8	-28.1
21,495.0	92.20	358.90	12,665.2	8,809.2	545.7	4.51	4.47	-0.64	6.6	-27.5
21,587.0	91.50	357.80	12,662.3	8,901.1	543.0	1.42	-0.76	-1.20	3.6	-25.5
21,682.0	92.30	357.80	12,659.1	8,996.0	539.4	0.84	0.84	0.00	0.4	-22.6
21,776.0	92.70	357.90	12,655.0	9,089.9	535.9	0.44	0.43	0.11	-3.7	-19.7
21,869.0	92.70	357.90	12,650.6	9,182.7	532.5	0.00	0.00	0.00	-8.1	-17.0
21,964.0	90.10	358.80	12,648.3	9,277.8	530.5	3.39	-2.74	2.00	-10.4	-15.8
22,057.0	89.30	359.60	12,648.8	9,370.8	530.1	0.89	-0.86	-0.22	-10.0	-16.0
22,151.0	90.00	0.00	12,649.4	9,464.8	529.7	0.86	0.74	0.43	-9.4	-16.4
22,246.0	89.90	0.70	12,649.5	9,559.6	530.3	0.74	-0.11	0.74	-9.4	-17.7
22,341.0	90.00	0.70	12,649.5	9,654.6	531.5	0.11	0.11	0.00	-9.3	-19.5
22,434.0	90.20	1.60	12,649.4	9,747.6	533.3	0.99	0.22	0.97	-9.5	-22.1
22,528.0	89.20	359.20	12,649.9	9,841.8	534.0	2.77	-1.08	-2.55	-9.0	-23.4
22,622.0	88.50	357.10	12,653.4	9,935.5	531.0	3.64	-2.87	-2.23	-5.5	-21.1



Midland PVA

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Wellbore: OH
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Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3382.0usft
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
22,716.0	88.70	357.20	12,659.0	10,029.2	526.3	0.24	0.21	0.11	0.1	-17.1
22,804.0	88.80	358.80	12,663.9	10,116.9	521.7	0.51	0.23	-0.45	4.9	-13.2
22,863.0	88.80	358.80	12,667.1	10,175.7	518.4	0.00	0.00	0.00	8.1	-10.3

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,156.0	12,114.5	-217.7	509.5	KOP, MD:12156.0', TVD:12114.5', N/S:-217.7', E/W:509.5', INC:1.01
12,439.9	12,388.1	-165.0	530.5	FTP Crossing, MD:12439.9', TVD:12388.1', N/S:-165.0', E/W:530.5', INC:33.50
22,804.0	12,663.9	10,116.9	521.7	Last MWD Survey (MD=22804.0')
22,863.0	12,667.1	10,175.7	518.4	Projection to Bit (MD=22863.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Signed Kay Maddox Date 2/10/2020



Lea County, NM (NAD 83 NME)
Peachtree 24 Fed Com #705H
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: #705H

KB = 25 @ 3382.0ush
Northing 372823.00 Easting 791200.00 Latitude 32° 1' 20.668 N Longitude 103° 31' 37.595 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
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	1300.1	8.00	110.18	1298.9	-5.4	14.7	2.00	110.18	-4.7	
4	6960.0	8.00	110.18	6928.4	-209.6	570.3	0.00	0.00	-180.9	
5	7260.1	0.00	0.00	7228.0	-215.0	585.0	2.00	180.00	-185.8	
6	12195.6	0.00	0.00	12163.5	-215.0	585.0	0.00	0.00	-185.8	
7	12945.3	89.96	359.58	12841.0	262.1	581.5	12.00	359.58	290.7	TGT#1(PT 24 Fed Com #705H)
8	15658.9	89.96	359.58	12843.0	2975.7	581.4	0.00	0.00	3000.0	
9	16688.3	89.77	359.58	12843.0	2985.0	581.3	2.00	-180.00	3009.3	TGT#2(PT 24 Fed Com #705H)
10	16688.8	89.77	359.58	12847.0	3977.3	554.0	0.00	0.00	4000.0	
11	16686.4	89.89	359.58	12847.0	3983.1	553.9	2.00	0.00	4005.7	TGT#3(PT 24 Fed Com #705H)
12	17682.3	89.89	359.58	12849.0	4979.0	548.6	0.00	0.00	5000.0	
13	17669.5	89.74	359.58	12849.0	4988.2	548.5	2.00	-180.00	5007.2	
14	19685.6	89.74	359.58	12858.0	6982.2	531.7	0.00	0.00	7000.0	TGT#4(PT 24 Fed Com #705H)
15	19677.6	89.98	359.58	12858.0	6994.2	531.6	2.00	0.00	7012.0	
16	22870.5	89.98	359.58	12659.0	10187.0	508.0	0.00	0.00	10199.7	PBHL(PT 24 Fed Com #705H)

CASING DETAILS

No casing data is available

WELLSBORE YARDEY DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brady Top(PT 24 Fed Com #705H)	7048.0	-215.0	685.0	372868.00	791785.00
FTPT(PT 24 Fed Com #705H)	12841.0	-185.0	685.0	372828.00	791785.00
TGT#1(PT 24 Fed Com #705H)	12843.0	2975.7	581.4	378788.70	791781.38
TGT#2(PT 24 Fed Com #705H)	12847.0	3977.3	554.0	378806.30	791783.87
TGT#3(PT 24 Fed Com #705H)	12843.0	4978.0	548.6	377802.00	791748.55
TGT#4(PT 24 Fed Com #705H)	12858.0	6982.2	531.7	378805.20	791781.72
PBHL(PT 24 Fed Com #705H)	12659.0	10187.0	508.0	382010.00	791708.00

