

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Peachtree 24 Fed Com

#708H

OH

Design: OH

Final PVA Report

27 June, 2019



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Peachtree 24 Fed Com
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3371.0usft
MD Reference: KB = 25 @ 3371.0usft
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:	372,758.00 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 #708H

Well Position	+N-S	0.0 usft	Northing:	372,817.00 usft	Latitude:	32° 1' 20.719 N
	+E-W	0.0 usft	Easting:	789,700.00 usft	Longitude:	103° 31' 55.018 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,348.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/7/2017	6.88	59.88	47,782.73162610

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	2.59

Survey Program Date 6/27/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
131.0	22,741.0	Intrepid MWD #1 (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
131.0	0.90	73.80	131.0	0.3	1.0	0.69	0.69	0.00	-1.0	0.0
311.0	1.60	233.10	311.0	-0.8	0.3	1.37	0.39	88.50	-0.2	0.9
488.0	1.40	231.00	497.9	-3.8	-3.5	0.11	-0.11	-1.12	-5.2	0.8
685.0	1.20	206.50	684.9	-7.0	-6.2	0.31	-0.11	-13.10	-9.0	-2.4
873.0	1.40	200.10	872.8	-10.9	-7.8	0.13	0.11	-3.40	-13.0	-3.6
1,044.0	1.30	210.40	1,043.8	-14.6	-9.5	0.15	-0.06	6.02	-17.4	-0.9
1,238.0	1.20	221.70	1,237.7	-18.0	-12.0	0.14	-0.05	5.82	-21.4	3.0
1,426.0	4.00	145.90	1,425.5	-24.9	-9.8	2.07	1.49	-40.32	-15.2	-22.0
1,614.0	9.90	119.30	1,612.1	-38.2	8.1	3.49	3.14	-14.15	-25.6	-29.6
1,802.0	10.00	122.30	1,797.3	-54.9	38.0	0.28	0.05	1.60	-59.6	-27.5
1,989.0	7.30	105.00	1,982.2	-66.6	61.2	1.99	-1.44	-9.25	-76.2	-48.8
2,177.0	7.30	106.80	2,168.7	-73.2	84.2	0.12	0.00	0.96	-101.6	-46.0
2,366.0	7.60	107.70	2,356.1	-80.4	107.6	0.17	0.16	0.48	-126.9	-44.3
2,555.0	8.20	108.10	2,543.3	-88.4	132.3	0.32	0.32	0.21	-153.1	-43.4
2,742.0	8.60	108.80	2,728.3	-97.1	158.3	0.22	0.21	0.37	-181.0	-41.3
2,931.0	9.10	108.40	2,915.0	-106.4	185.8	0.27	0.26	-0.21	-207.3	-42.4
3,119.0	9.10	105.50	3,100.6	-115.0	214.2	0.24	0.00	-1.54	-220.2	-51.5
3,305.0	8.10	94.30	3,284.6	-119.9	241.5	1.05	-0.54	-6.02	-212.2	-88.9
3,494.0	7.50	96.60	3,471.8	-122.4	267.0	0.36	-0.32	1.22	-219.0	-73.7
3,682.0	7.00	97.90	3,658.3	-125.3	290.6	0.28	-0.27	0.69	-222.1	-62.8
3,870.0	8.50	87.60	3,844.6	-126.3	315.8	1.08	0.80	-5.48	-211.8	-93.8
4,056.0	7.90	83.60	4,028.7	-124.3	342.2	0.44	-0.32	-2.15	-211.3	-98.4
4,244.0	6.90	94.20	4,215.1	-123.7	366.3	0.90	-0.53	5.64	-227.9	-48.8
4,433.0	6.90	115.60	4,402.8	-129.5	387.9	1.35	0.00	11.32	-229.0	39.8
4,619.0	6.40	114.10	4,587.5	-138.5	407.4	0.28	-0.27	-0.81	-228.9	32.8
4,807.0	6.20	113.60	4,774.4	-148.9	426.3	0.11	-0.11	-0.27	-226.8	30.1



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Survey

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
4,995.0	6.30	118.30	4,960.9	-157.4	447.5	1.16	1.12	2.50	-224.6	46.8
5,181.0	6.40	121.10	5,145.4	-169.1	468.2	1.04	-1.02	1.51	-223.4	54.7
5,370.0	6.20	118.80	5,333.2	-179.4	486.2	0.17	-0.11	-1.22	-223.3	42.6
5,557.0	5.00	118.70	5,519.3	-188.2	502.2	0.64	-0.64	-0.05	-218.9	39.6
5,744.0	4.30	118.60	5,705.7	-195.5	515.5	0.37	-0.37	-0.05	-211.4	36.6
5,932.0	3.90	116.00	5,893.2	-201.7	527.4	0.23	-0.21	-1.38	-203.4	25.2
6,120.0	3.20	116.10	6,080.9	-206.9	537.8	0.38	-0.37	1.12	-191.1	30.4
6,307.0	1.50	103.30	6,267.7	-210.0	544.8	0.96	-0.91	-7.91	-177.5	-17.1
6,495.0	0.80	33.80	6,455.7	-209.4	547.9	0.76	-0.37	-36.97	-43.9	-152.0
6,682.0	0.80	27.60	6,642.7	-207.2	549.3	0.05	0.00	-3.32	-27.6	-133.3
6,871.0	0.80	22.20	6,831.6	-204.8	550.4	0.04	0.00	-2.86	-17.5	-112.4
7,058.0	0.90	23.90	7,018.6	-202.2	551.5	0.06	0.05	0.91	-22.9	-89.0
7,245.0	0.70	27.70	7,205.6	-199.9	552.6	0.11	-0.11	2.03	-29.0	-64.5
7,433.0	0.40	28.60	7,393.6	-198.3	553.4	0.16	-0.16	0.48	-29.1	-41.3
7,621.0	0.30	51.40	7,581.6	-197.4	554.1	0.09	-0.05	12.13	-33.5	-8.2
7,808.0	0.20	164.10	7,768.6	-197.4	554.6	0.22	-0.05	60.27	11.5	26.4
7,996.0	0.50	225.20	7,956.6	-198.3	554.1	0.23	0.16	32.50	27.4	2.3
8,184.0	1.00	218.90	8,144.6	-200.2	552.5	0.27	0.27	-3.35	24.6	5.2
8,372.0	0.80	221.00	8,332.5	-202.4	550.6	0.11	-0.11	1.12	21.8	4.4
8,560.0	1.10	218.10	8,520.5	-204.8	548.6	0.16	0.16	-1.54	18.4	5.4
8,749.0	1.20	216.70	8,709.5	-207.9	546.3	0.05	0.05	-0.74	14.5	5.8
8,935.0	1.40	204.30	8,895.4	-211.5	544.2	0.18	0.11	-6.67	8.7	8.4
9,123.0	1.40	214.80	9,083.4	-215.5	542.0	0.14	0.00	5.59	5.6	7.1
9,310.0	1.30	219.50	9,270.3	-219.0	539.3	0.08	-0.05	2.51	1.7	6.8
9,497.0	1.20	233.80	9,457.3	-221.8	536.4	0.17	-0.05	7.65	-0.7	6.7
9,684.0	1.50	297.80	9,644.2	-221.8	532.7	0.78	0.16	34.22	2.4	5.3
9,872.0	2.10	320.30	9,832.1	-218.0	528.3	0.49	0.32	11.97	-1.5	4.9



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10,060.0	1.80	306.30	10,020.0	-213.6	523.7	0.30	-0.16	-7.45	-8.9	3.6
10,247.0	1.80	288.00	10,206.9	-211.0	518.5	0.31	0.00	-9.79	-15.3	-0.3
10,435.0	1.50	275.80	10,394.9	-209.8	513.3	0.24	-0.16	-6.49	-20.2	-4.2
10,621.0	3.10	268.50	10,580.7	-209.7	505.8	0.87	0.86	-3.92	-27.0	-7.0
10,809.0	2.10	268.50	10,768.5	-209.9	497.3	0.53	-0.53	0.00	-35.5	-7.0
10,997.0	1.90	295.80	10,956.4	-208.6	491.1	0.51	-0.11	14.52	-41.0	11.6
11,184.0	1.20	250.10	11,143.3	-208.0	486.4	0.73	-0.37	-24.44	-41.1	-23.4
11,373.0	1.50	255.40	11,332.3	-209.2	482.2	0.17	0.16	2.80	-47.5	-19.4
11,561.0	1.20	274.60	11,520.2	-209.7	477.8	0.29	-0.16	10.21	-55.5	-1.8
11,683.0	0.60	288.10	11,642.2	-209.4	475.9	0.52	-0.49	11.07	-56.3	11.5
11,779.0	0.20	175.00	11,738.2	-209.4	475.5	0.73	-0.42	-117.81	11.6	-56.7
11,873.0	4.10	113.10	11,832.1	-210.9	478.6	4.27	4.15	-65.85	52.0	-16.7
11,967.0	2.70	103.00	11,926.0	-212.7	483.8	1.61	-1.49	-10.74	48.6	-7.9
12,084.0	2.20	79.90	12,042.9	-212.9	488.7	0.94	-0.43	-19.74	43.0	10.8
12,166.3	15.05	27.85	12,124.1	-203.2	495.3	16.77	15.62	-63.14	6.1	39.3
KOP (PT 24 Fed Com #708H)										
12,178.0	17.00	27.10	12,135.4	-200.3	496.8	16.77	16.65	-7.27	2.4	39.3
12,263.2	32.21	6.01	12,212.7	-166.4	504.9	20.36	17.85	-24.75	-36.2	33.0
HL Crossing, MD:12263.2', TVD:12212.7', N/S:-166.4', EW:504.9', INC:32.21										
12,271.0	33.70	5.00	12,219.3	-162.2	505.3	20.36	19.10	-12.95	-39.5	32.3
12,317.0	43.80	0.80	12,255.1	-133.5	506.7	22.68	21.96	-9.13	-59.5	29.2
12,364.0	49.20	358.70	12,287.5	-99.4	506.5	11.94	11.49	-4.47	-80.5	26.8
12,410.0	51.30	357.90	12,316.9	-64.0	505.4	4.76	4.57	-1.74	-98.8	25.5
12,458.0	54.40	359.00	12,345.9	-25.8	504.4	6.71	6.46	2.29	-113.7	27.4
12,483.6	55.24	358.92	12,380.6	-4.9	504.0	3.31	3.30	-0.33	-120.4	27.1
FTP (PT 24 Fed Com #708H)										
12,552.0	57.50	358.70	12,398.5	52.1	502.9	3.31	3.30	-0.32	-131.4	27.1



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12,646.0	58.20	0.70	12,448.5	131.6	502.4	1.95	0.74	2.13	-126.3	29.5
12,692.0	58.10	0.90	12,472.8	170.7	503.0	0.43	-0.22	0.43	-115.2	29.3
12,739.0	58.90	3.90	12,497.3	210.7	504.7	5.70	1.70	6.38	-98.3	28.7
12,785.0	63.60	4.30	12,519.5	251.0	507.8	10.25	10.22	0.87	-79.7	24.7
12,833.0	68.10	4.10	12,539.1	294.8	510.8	9.38	9.37	-0.42	-60.4	20.1
12,879.0	70.70	3.90	12,555.3	337.6	513.8	5.87	5.85	-0.43	-44.2	16.3
12,927.0	70.90	3.40	12,571.1	382.8	516.6	1.07	0.42	-1.04	-28.4	12.9
12,973.0	75.80	4.20	12,584.2	426.8	519.8	10.78	10.65	1.74	-15.3	9.2
13,020.0	82.50	1.80	12,593.1	472.8	522.0	15.04	14.26	-4.89	-6.5	6.3
13,114.0	92.80	357.90	12,598.9	566.6	521.8	11.75	10.98	-4.26	-2.5	5.7
13,208.0	89.00	0.10	12,595.5	660.6	520.2	4.67	-4.04	2.34	-3.8	6.7
13,302.0	88.50	4.10	12,598.7	754.5	523.6	4.28	0.53	4.26	-2.5	2.6
13,396.0	86.60	4.00	12,599.9	848.2	530.3	3.09	-3.09	-0.11	0.9	-4.7
13,489.0	87.80	4.70	12,604.4	940.8	537.3	1.49	1.29	0.75	5.6	-12.3
13,582.0	90.80	1.10	12,605.6	1,033.6	542.0	5.04	3.23	-3.87	6.9	-17.7
13,675.0	85.90	356.30	12,608.2	1,126.5	539.9	7.37	-5.27	-5.16	9.8	-16.2
13,769.0	89.50	357.10	12,612.0	1,220.3	534.5	3.92	3.83	0.85	13.7	-11.5
13,862.0	92.40	357.20	12,610.5	1,313.1	529.9	3.12	3.12	0.11	12.3	-7.5
13,955.0	91.60	356.20	12,607.2	1,405.9	524.5	1.38	-0.86	-1.08	9.2	-2.8
14,048.0	92.50	357.80	12,603.9	1,498.7	519.7	1.97	0.97	1.72	6.0	1.4
14,142.0	86.50	0.00	12,604.7	1,592.7	517.9	6.80	-6.38	2.34	7.0	2.6
14,236.0	88.10	0.40	12,609.2	1,686.6	518.2	1.75	1.70	0.43	11.6	1.6
14,329.0	89.30	0.40	12,611.3	1,779.5	518.9	1.29	1.29	0.00	13.8	0.3
14,422.0	91.30	0.80	12,610.8	1,872.5	519.8	2.19	2.15	0.43	13.5	-1.3
14,514.0	92.50	355.90	12,607.7	1,964.4	517.2	5.48	1.30	-5.33	10.6	0.7
14,607.0	90.70	1.00	12,605.1	2,057.3	514.7	5.81	-1.94	5.48	8.2	2.6
14,701.0	90.10	0.20	12,604.5	2,151.3	515.7	1.08	-0.84	-0.85	7.7	1.0



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14,795.0	87.80	359.60	12,608.4	2,245.3	515.5	2.74	-2.66	-0.64	9.7	0.5
14,889.0	92.50	1.90	12,608.3	2,339.2	516.7	5.76	5.21	2.45	9.8	-1.4
14,983.0	89.60	359.40	12,604.5	2,433.2	517.8	4.07	-3.09	-2.66	8.2	-3.1
15,078.0	87.10	358.90	12,607.3	2,528.1	516.4	2.68	-2.63	-0.53	11.1	-2.4
15,171.0	91.10	1.10	12,608.7	2,621.1	516.4	4.91	4.30	2.37	12.7	-3.0
15,265.0	85.40	359.90	12,611.6	2,715.0	517.2	6.20	-6.06	-1.28	15.8	-4.5
15,358.0	86.40	359.80	12,618.3	2,807.8	517.0	1.08	1.08	-0.11	22.6	-4.8
15,452.0	88.80	359.20	12,622.2	2,901.7	516.1	2.63	2.55	-0.64	26.7	-4.7
15,545.0	91.30	0.00	12,622.1	2,994.7	515.5	2.82	2.69	0.86	26.7	-4.7
15,638.0	88.30	0.30	12,622.4	3,087.6	515.7	3.24	-3.23	0.32	27.2	-5.6
15,732.0	90.20	1.30	12,623.7	3,181.6	517.0	2.28	2.02	1.06	28.6	-7.6
15,767.3	91.22	1.30	12,623.2	3,216.9	517.8	2.90	2.90	0.00	28.2	-8.6
TGT 1 (PT 24 Fed Com #708H)										
15,825.0	92.90	1.30	12,621.2	3,274.6	519.2	2.90	2.90	0.00	26.0	-10.3
15,918.0	90.90	1.30	12,618.1	3,367.5	521.3	2.15	-2.15	0.00	22.7	-13.1
16,012.0	91.20	1.00	12,616.4	3,461.4	523.1	0.45	0.32	-0.32	20.7	-15.6
16,105.0	91.50	1.00	12,614.2	3,554.4	524.8	0.32	0.32	0.00	18.3	-17.9
16,199.0	90.80	0.10	12,612.3	3,648.4	525.7	1.21	-0.74	-0.96	16.2	-19.4
16,292.0	89.70	358.80	12,611.9	3,741.4	524.8	1.83	-1.18	-1.40	15.5	-19.2
16,386.0	90.20	358.50	12,612.0	3,835.3	522.6	0.62	0.53	-0.32	15.4	-17.6
16,478.0	87.80	357.70	12,613.6	3,927.3	519.5	2.75	-2.61	-0.67	16.8	-15.2
16,571.0	89.50	359.00	12,615.7	4,020.2	516.8	2.30	1.83	1.40	18.7	-13.2
16,665.0	92.00	0.70	12,614.5	4,114.2	516.6	3.22	2.66	1.81	17.2	-13.6
16,759.0	90.40	0.70	12,612.5	4,208.2	517.7	1.70	-1.70	0.00	15.0	-15.4
16,852.0	88.50	358.80	12,613.4	4,301.1	517.4	2.81	-2.04	-1.94	15.7	-15.7
16,945.0	90.40	1.50	12,614.3	4,394.1	517.7	3.46	2.04	2.80	16.3	-16.7
17,039.0	90.30	2.70	12,613.8	4,488.1	521.2	1.28	-0.11	1.28	15.5	-20.7



Final PVA Report

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 Design: OH

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 MD Reference: KB = 25 @ 3371.0usft
 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)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,133.0	88.40	359.90	12,614.8	4,582.0	523.3	3.60	-2.02	-2.98	16.3	-23.5
17,226.0	87.50	357.60	12,618.2	4,674.9	521.3	2.65	-0.97	-2.47	19.4	-22.1
17,318.0	89.20	358.50	12,620.8	4,766.8	518.2	2.09	1.85	0.98	21.8	-19.7
17,412.0	91.40	359.20	12,620.3	4,860.8	516.3	2.46	2.34	0.74	21.1	-18.4
17,505.0	91.40	358.50	12,618.0	4,953.8	514.4	0.75	0.00	-0.75	18.6	-17.2
17,599.0	89.50	359.60	12,617.3	5,047.7	512.9	2.34	-2.02	1.17	17.6	-16.3
17,693.0	90.50	1.50	12,617.3	5,141.7	513.8	2.28	1.06	2.02	17.4	-17.8
17,787.0	88.40	0.70	12,618.2	5,235.7	515.6	2.39	-2.23	-0.85	18.0	-20.3
17,881.0	90.30	0.80	12,619.3	5,329.7	516.8	2.02	2.02	0.11	18.8	-22.2
17,975.0	87.70	357.20	12,620.9	5,423.6	515.2	4.72	-2.77	-3.83	20.2	-21.2
18,069.0	88.10	355.00	12,624.4	5,517.3	508.8	2.38	0.43	-2.34	23.5	-15.4
18,162.0	92.70	357.30	12,623.7	5,610.1	502.5	5.53	4.95	2.47	22.5	-9.9
18,256.0	89.80	357.00	12,621.7	5,703.9	497.8	3.10	-3.09	-0.32	20.2	-5.8
18,350.0	90.90	357.10	12,621.1	5,797.8	493.0	1.18	1.17	0.11	19.4	-1.6
18,443.0	91.90	357.80	12,618.8	5,890.7	486.9	1.31	1.08	0.75	16.9	1.8
18,536.0	91.70	358.30	12,615.9	5,983.6	485.7	0.58	-0.22	0.54	13.8	4.4
18,629.0	87.70	357.10	12,616.4	6,076.5	482.0	4.49	-4.30	-1.29	14.0	7.5
18,722.0	89.10	357.60	12,619.0	6,169.4	477.7	1.60	1.51	0.54	16.4	11.1
18,817.0	90.40	357.20	12,619.4	6,264.3	473.4	1.43	1.37	-0.42	16.5	14.8
18,911.0	89.90	355.30	12,619.1	6,358.1	467.2	2.09	-0.53	-2.02	16.1	20.2
19,004.0	90.80	358.20	12,618.6	6,450.9	462.0	3.26	0.97	3.12	15.2	24.9
19,097.0	88.30	358.90	12,619.3	6,543.9	459.6	2.79	-2.69	0.75	15.7	26.6
19,191.0	89.10	0.80	12,621.4	6,637.8	459.4	2.19	0.85	2.02	17.6	26.2
19,284.0	90.90	2.50	12,621.4	6,730.8	462.0	2.66	1.94	1.83	17.4	22.9
19,378.0	87.70	1.20	12,622.6	6,824.7	465.1	3.67	-3.40	-1.38	18.3	19.2
19,471.0	87.10	1.20	12,626.8	6,917.8	467.0	0.65	-0.65	0.00	22.3	16.6
19,565.0	90.40	359.80	12,628.9	7,011.5	467.8	3.81	3.51	-1.49	24.1	15.1



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 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,658.0	90.10	359.70	12,628.4	7,104.5	467.4	0.34	-0.32	-0.11	23.4	14.9
19,752.0	90.00	359.20	12,628.4	7,198.5	486.5	0.54	-0.11	-0.53	23.1	15.1
19,846.0	89.80	359.20	12,628.5	7,292.5	485.2	0.21	-0.21	0.00	23.0	15.8
19,938.0	89.00	358.90	12,629.5	7,384.5	483.7	0.93	-0.87	-0.33	23.7	16.7
20,032.0	90.00	358.10	12,630.3	7,478.5	481.2	1.36	1.06	-0.85	24.3	18.5
20,125.0	92.40	358.50	12,628.4	7,571.4	458.5	2.62	2.58	0.43	22.1	20.6
20,219.0	94.60	358.90	12,622.6	7,665.2	456.3	2.38	2.34	0.43	16.1	22.1
20,314.0	92.60	3.00	12,616.7	7,760.0	457.9	4.78	-2.11	4.32	9.9	19.9
20,408.0	89.60	5.10	12,614.9	7,853.7	464.6	3.90	-3.19	2.23	7.9	12.6
20,501.0	88.00	3.80	12,616.8	7,948.4	471.8	2.22	-1.72	-1.40	9.6	4.7
20,595.0	89.70	4.30	12,616.7	8,040.1	478.4	1.89	1.81	0.53	11.2	-2.6
20,689.0	88.90	5.30	12,619.8	8,133.8	486.3	1.36	-0.85	1.06	12.2	-11.1
20,781.0	90.50	4.10	12,620.3	8,225.5	493.8	2.17	1.74	-1.30	12.4	-19.2
20,875.0	91.20	2.50	12,618.9	8,319.3	499.2	1.86	0.74	-1.70	10.8	-25.3
20,969.0	85.40	0.00	12,621.7	8,413.2	501.3	6.72	-6.17	-2.66	13.2	-28.0
21,063.0	86.40	356.10	12,628.4	8,506.9	498.1	4.27	1.06	-4.15	19.8	-25.4
21,156.0	89.90	353.90	12,631.4	8,599.5	490.0	4.44	3.76	-2.37	22.6	-18.0
21,249.0	91.70	354.90	12,630.1	8,692.0	480.9	2.21	1.84	1.08	21.0	-9.6
21,342.0	93.10	357.10	12,626.2	8,784.7	474.4	2.80	1.51	2.37	16.9	-3.7
21,436.0	87.70	357.80	12,625.6	8,878.6	470.1	5.77	-5.74	0.53	16.0	0.0
21,530.0	87.60	357.70	12,629.3	8,972.4	468.2	0.15	0.11	0.11	19.4	3.2
21,624.0	89.50	357.80	12,631.5	9,066.3	462.5	1.81	1.81	0.11	21.4	6.2
21,716.0	90.10	358.20	12,631.8	9,158.2	459.3	0.78	0.65	0.43	21.5	8.8
21,811.0	91.40	358.00	12,630.6	9,253.2	456.2	1.38	1.37	-0.21	20.0	11.3
21,904.0	91.60	359.20	12,628.1	9,346.1	453.9	1.31	0.22	1.29	17.3	12.9
21,997.0	89.50	0.20	12,627.2	9,439.1	453.4	2.50	-2.26	1.08	16.2	12.7
22,092.0	88.00	2.20	12,629.3	9,534.1	455.4	2.63	-1.58	2.11	18.0	10.1



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	NS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
22,185.0	90.10	2.60	12,630.9	9,627.0	459.3	2.30	2.26	0.43	19.3	5.5
22,278.0	91.50	3.80	12,629.6	9,719.8	464.5	1.98	1.51	1.29	17.8	-0.3
22,371.0	89.10	4.60	12,629.1	9,812.5	471.3	2.72	-2.58	0.86	17.0	-7.7
22,464.0	87.40	2.90	12,631.9	9,905.3	477.4	2.58	-1.83	-1.83	19.6	-14.5
22,558.0	87.80	1.90	12,635.8	9,999.1	481.3	1.14	0.43	-1.06	23.3	-19.1
22,652.0	90.40	3.20	12,637.3	10,093.0	485.5	3.09	2.77	1.38	24.6	-23.8
22,684.0	91.80	2.90	12,636.7	10,125.0	487.2	4.47	4.37	-0.94	23.9	-25.8
Final MWD Survey (MD=22684.0')										
22,741.0	91.80	2.90	12,634.9	10,181.9	490.1	0.00	0.00	0.00	22.0	-29.0
Final Projection to Bit (MD=22741.0') - PBHL(PT 24 Fed Com #708H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,283.2	12,212.7	-168.4	504.9	HL Crossing, MD:12263.2', TVD:12212.7', NS:-168.4', EW:504.9', INC:32.21
22,684.0	12,636.7	10,125.0	487.2	Final MWD Survey (MD=22684.0')
22,741.0	12,634.9	10,181.9	490.1	Final Projection to Bit (MD=22741.0')

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 #708H

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: #708H

KB = 25 @ 3371.0usft 3348.0
Northing 372817.00 Easting 789700.00 Longitude 32° 1' 20.719 N 103° 31' 53.018 W

SECTION DETAILS

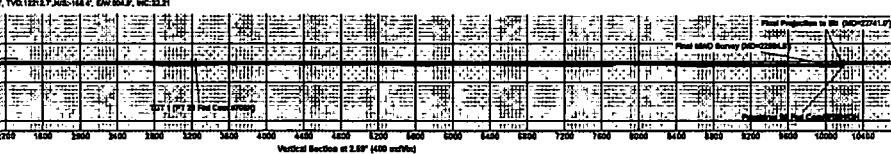
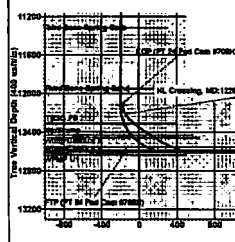
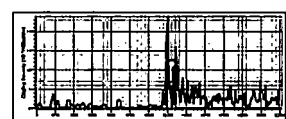
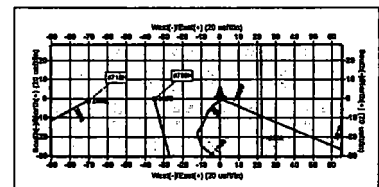
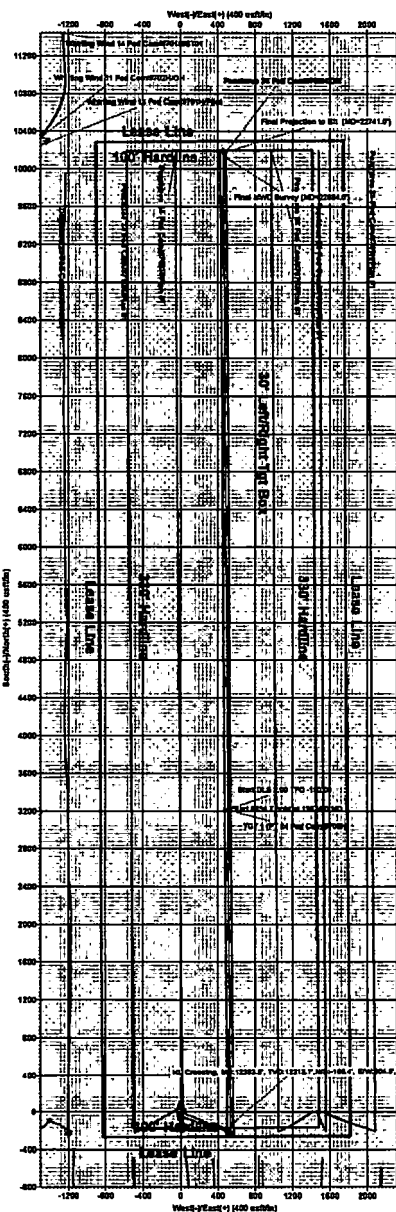
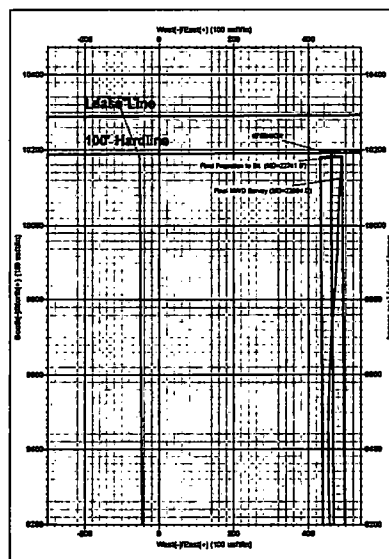
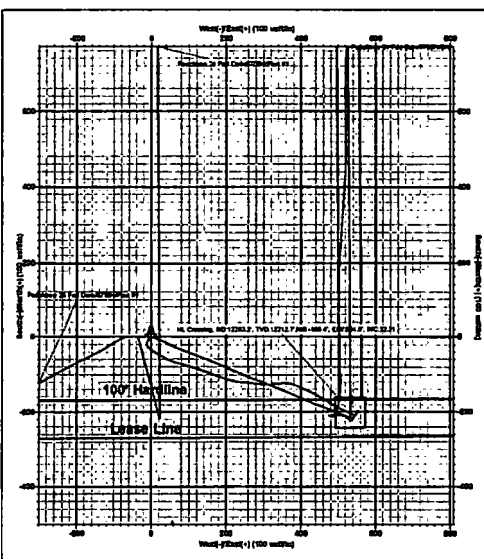
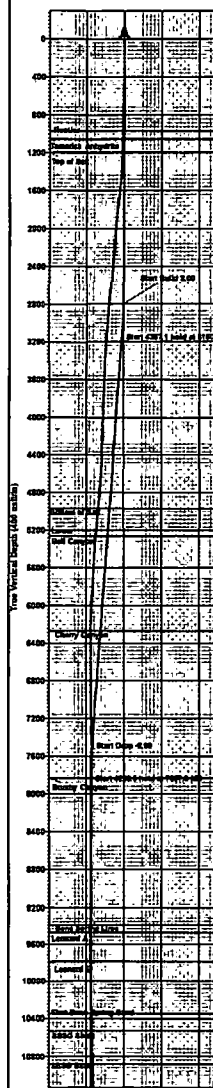
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2800.0	0.00	0.00	2800.0	0.0	0.0	0.00	0.00	0.0	
3	3150.1	7.00	112.08	3149.2	-8.0	19.8	2.00	112.08	-7.1	
4	7517.2	7.00	112.08	7483.8	-208.0	513.2	0.00	0.00	-184.6	
5	7887.3	0.00	0.00	7833.0	-216.0	533.0	2.00	180.00	-191.7	
6	12158.8	0.00	0.00	12122.5	-216.0	533.0	0.00	0.00	-191.7	KOP (PT 24 Fed Com #708H)
7	12907.6	90.10	359.60	12600.0	282.3	526.7	12.00	359.60	285.9	TGT 1 (PT 24 Fed Com #708H)
8	15881.7	90.10	359.60	12595.0	3218.3	509.2	0.00	0.00	3238.0	
9	15874.0	89.85	359.60	12595.0	3228.5	509.2	2.00	-180.00	3248.2	
10	22828.8	89.85	359.60	12613.0	10183.0	481.0	0.00	0.00	10193.4	PBHL(PT 24 Fed Com #708H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (PT 24 Fed Com #708H)	12122.5	-216.0	533.0	372817.00	789700.00
TGT 1 (PT 24 Fed Com #708H)	12595.0	3218.3	509.2	378033.30	790209.34
PTP (PT 24 Fed Com #708H)	12840.0	-164.0	631.0	372851.00	790237.00
PBHL(PT 24 Fed Com #708H)	12913.0	10183.0	481.0	383000.00	790181.00



Let Data be used in 2000
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