



HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hemlock 32 State

#704H

OH

Design: OH

Midland PVA

08 April, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3690.0usft
Site:	Hemlock 32 State	MD Reference:	KB = 25 @ 3690.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Hemlock 32 State		
Site Position:		Northing:	457,257.00 usft
From:	Map	Easting:	767,769.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 17.825 N
		Longitude:	103° 36' 3.080 W
		Grid Convergence:	0.39 °

Well	#704H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 15' 17.486 N
		Longitude:	103° 35' 49.027 W
		Ground Level:	3,665.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	1/15/2019	6.80
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,789.41842728

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			5.23

Survey Program	Date 4/8/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
138.0	17,475.0	Newsco MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3690.0usft
 MD Reference: KB = 25 @ 3690.0usft
 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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
138.0	0.80	37.60	138.0	0.8	0.6	0.58	0.58	0.00	-1.0	0.0	
321.0	1.40	30.50	321.0	3.7	2.5	0.34	0.33	-3.88	-4.5	-0.3	
503.0	1.60	41.70	502.9	7.5	5.3	0.19	0.11	6.15	-9.2	1.0	
690.0	2.00	43.50	689.8	11.8	9.3	0.22	0.21	0.96	-15.0	1.4	
878.0	2.00	59.90	877.7	15.9	14.4	0.30	0.00	8.72	-20.4	6.5	
1,065.0	1.10	91.90	1,064.6	17.4	19.0	0.65	-0.48	17.11	-18.4	18.1	
1,253.0	2.50	151.50	1,252.5	13.8	22.8	1.15	0.74	31.70	1.2	26.6	
1,308.0	2.80	163.00	1,305.5	11.5	23.7	1.15	0.57	21.70	4.1	26.0	
1,446.0	2.70	181.60	1,445.3	4.9	24.6	0.64	-0.07	13.29	7.4	21.2	
1,634.0	4.40	127.80	1,633.0	-3.9	30.2	1.89	0.90	-28.62	-7.8	13.0	
1,820.0	5.20	120.60	1,818.4	-12.6	43.1	0.54	0.43	-3.87	-7.7	11.0	
2,005.0	5.50	115.20	2,002.5	-20.6	58.3	0.32	0.18	-2.92	-8.9	10.9	
2,192.0	6.00	123.00	2,188.6	-29.7	74.6	0.50	0.27	4.17	-8.8	12.5	
2,380.0	5.40	124.40	2,375.7	-40.1	90.2	0.33	-0.32	0.74	-9.8	11.7	
2,569.0	5.40	127.70	2,563.8	-50.6	104.5	0.16	0.00	1.75	-9.8	10.5	
2,757.0	5.00	127.00	2,751.1	-60.9	118.1	0.22	-0.21	-0.37	-9.5	8.3	
2,945.0	5.70	117.30	2,938.3	-70.1	132.9	0.81	0.37	-5.16	-10.9	6.1	
3,133.0	6.70	114.80	3,125.1	-79.0	151.2	0.55	0.53	-1.33	-14.2	6.9	
3,321.0	6.60	109.30	3,311.9	-87.2	171.3	0.34	-0.05	-2.93	-19.5	7.8	
3,508.0	6.70	109.80	3,497.8	-94.4	191.7	0.08	0.05	0.27	-24.1	11.2	
3,696.0	6.10	133.20	3,684.5	-105.0	209.3	1.41	-0.32	12.45	-20.9	20.4	
3,884.0	4.80	141.30	3,871.6	-118.1	221.6	0.76	-0.64	4.31	-19.6	18.3	
4,071.0	4.40	155.20	4,058.0	-130.8	229.6	0.68	-0.27	7.43	-15.4	14.5	
4,258.0	4.70	128.20	4,244.4	-142.1	238.7	1.15	0.16	-14.44	-17.2	0.4	
4,445.0	6.20	129.40	4,430.8	-153.2	252.5	0.80	0.80	0.64	-17.9	-1.8	
4,631.0	6.30	129.00	4,615.5	-166.0	268.2	0.06	0.05	-0.22	-21.2	-4.6	



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Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,819.0	7.00	124.00	4,802.2	-178.9	285.7	0.48	0.37	-2.66	-25.2	-8.4	
5,006.0	4.70	116.80	4,988.2	-188.7	302.0	1.29	-1.23	-3.85	-25.7	-11.8	
5,193.0	2.90	110.20	5,174.8	-193.8	313.3	0.99	-0.96	-3.53	-19.5	-12.5	
5,381.0	3.20	107.00	5,382.8	-197.0	322.8	0.18	0.16	-1.70	-11.9	-9.9	
5,569.0	3.20	107.50	5,550.3	-200.1	332.8	0.01	0.00	0.27	-5.5	-5.8	
5,756.0	3.20	106.10	5,737.0	-203.1	342.8	0.04	0.00	-0.75	0.9	-1.9	
5,942.0	3.20	103.30	5,922.7	-205.8	352.8	0.08	0.00	-1.51	7.1	3.0	
6,129.0	2.90	105.60	6,109.4	-208.2	362.4	0.17	-0.16	1.23	13.9	7.3	
6,317.0	4.20	96.90	6,297.1	-210.3	373.9	0.75	0.69	-4.63	17.0	15.5	
6,504.0	4.00	97.10	6,483.6	-212.0	387.1	0.11	-0.11	0.11	19.6	22.3	
6,691.0	4.50	106.00	6,670.1	-214.8	400.7	0.44	0.27	4.76	25.7	24.3	
6,879.0	4.90	110.40	6,857.4	-219.6	415.3	0.29	0.21	2.34	29.2	25.8	
7,065.0	4.60	108.30	7,042.8	-224.7	429.8	0.19	-0.18	-1.13	29.7	30.1	
7,251.0	4.20	105.80	7,228.2	-228.9	443.4	0.24	-0.22	-1.34	30.7	35.4	
7,438.0	2.60	142.10	7,414.9	-234.2	452.8	1.39	-0.88	19.41	49.1	9.2	
7,626.0	1.20	200.20	7,602.8	-239.4	454.6	1.18	-0.74	30.90	30.0	-36.0	
7,812.0	1.80	121.80	7,788.8	-242.7	456.4	1.05	0.32	-42.15	38.0	20.3	
7,999.0	1.30	137.10	7,975.7	-245.8	460.3	0.34	-0.27	8.18	37.1	10.3	
8,187.0	1.10	150.00	8,163.7	-249.0	462.7	0.18	-0.11	6.86	34.5	2.2	
8,370.0	1.10	167.50	8,346.8	-252.2	463.9	0.18	0.00	9.56	30.2	-7.7	
8,557.0	1.00	167.20	8,533.8	-255.5	464.7	0.05	-0.05	-0.16	26.8	-7.6	
8,745.0	1.00	158.40	8,721.6	-258.7	465.8	0.08	0.00	-4.68	24.4	-3.6	
8,932.0	0.90	158.10	8,908.6	-261.5	466.8	0.05	-0.05	-0.16	21.3	-3.5	
9,119.0	0.80	156.10	9,095.5	-264.1	467.9	0.08	-0.05	-1.07	18.6	-2.8	
9,306.0	0.50	137.10	9,282.5	-265.9	469.0	0.20	-0.16	-10.16	16.5	3.0	
9,493.0	0.90	138.30	9,469.5	-267.6	470.5	0.21	0.21	0.84	14.3	2.7	
9,680.0	1.30	102.40	9,656.5	-269.1	473.5	0.42	0.21	-19.20	6.7	9.7	



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 Database: EDM 5000.14

Survey											
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9,868.0	1.20	79.20	9,844.4	-269.2	477.6	0.27	-0.05	-12.34	-1.6	10.7	
10,055.0	1.00	144.70	10,031.4	-270.2	480.4	0.64	-0.11	35.03	6.6	7.6	
10,242.0	0.70	198.80	10,218.4	-272.6	481.0	0.44	-0.16	26.93	8.0	0.5	
10,429.0	0.80	175.20	10,405.4	-275.0	480.7	0.17	0.05	-12.62	4.8	3.1	
10,617.0	0.70	97.90	10,593.4	-276.5	482.0	0.50	-0.05	-41.12	-3.5	4.1	
10,804.0	0.80	120.70	10,780.3	-277.4	484.4	0.20	0.11	12.19	-4.1	5.5	
10,991.0	2.20	150.10	10,967.3	-281.2	487.4	0.79	0.70	15.72	-5.8	7.6	
11,178.0	1.00	182.10	11,154.2	-285.9	488.9	0.86	-0.64	22.46	-3.5	11.9	
11,365.0	1.50	183.00	11,341.2	-290.0	488.4	0.29	0.27	-4.87	-9.4	10.9	
11,554.0	1.00	186.00	11,530.1	-294.1	488.1	0.27	-0.26	1.59	-12.9	11.5	
11,740.0	0.80	188.20	11,716.1	-297.0	487.8	0.11	-0.11	1.18	-15.4	12.1	
11,850.0	0.40	147.80	11,826.1	-298.1	487.8	0.51	-0.36	-36.73	-20.5	-1.3	
11,941.0	0.40	110.00	11,917.1	-298.4	488.3	0.28	0.00	-41.54	-16.0	-13.8	
12,035.0	5.70	355.00	12,010.9	-293.9	488.2	6.26	5.64	-122.34	14.7	-9.0	
12,128.0	13.80	348.70	12,102.5	-278.4	485.6	8.77	8.71	-6.77	0.1	-7.8	
12,222.0	23.70	345.60	12,191.4	-249.0	478.7	10.58	10.53	-3.30	-18.5	-5.5	
12,315.0	30.20	350.40	12,274.3	-207.8	470.2	7.37	6.99	5.16	-32.4	2.7	
12,340.0	34.50	354.80	12,295.4	-194.6	468.5	19.70	17.20	18.00	-34.8	6.5	
12,408.0	34.70	355.70	12,351.4	-156.1	465.3	0.73	0.29	1.18	-37.6	9.8	
12,471.0	40.40	358.50	12,401.3	-117.7	463.4	9.44	9.05	4.44	-33.6	13.0	
12,503.0	43.50	0.60	12,425.1	-96.4	463.3	10.63	9.69	6.56	-30.5	13.9	
12,596.0	50.20	2.70	12,488.7	-28.6	465.3	7.39	7.20	2.26	-17.5	11.6	
12,689.0	62.10	2.70	12,540.4	48.4	468.9	12.80	12.80	0.00	-1.5	6.9	
12,782.0	74.00	0.10	12,575.1	134.5	471.0	13.05	12.80	-2.80	13.2	4.2	
12,871.0	85.60	359.40	12,590.8	221.9	470.6	13.06	13.03	-0.79	25.1	4.0	
12,969.0	88.40	359.20	12,595.9	319.8	468.5	3.11	2.86	-1.22	31.5	5.4	
13,062.0	94.00	356.60	12,594.0	412.6	464.3	6.26	6.02	-1.72	30.8	8.9	



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 Wellbore: OH
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13,155.0	90.20	356.50	12,590.6	505.4	458.7	4.09	-4.09	-0.11	28.6	13.9	
13,248.0	94.70	357.20	12,586.6	598.1	453.6	4.90	4.84	0.75	25.8	18.4	
13,341.0	94.70	359.50	12,579.0	690.8	450.9	2.46	0.00	2.47	19.5	20.4	
13,435.0	94.80	1.10	12,571.2	784.4	451.4	1.70	0.11	1.70	14.4	19.3	
13,528.0	90.60	4.50	12,566.8	877.2	456.0	5.81	-4.52	3.66	12.8	14.1	
13,622.0	89.90	4.70	12,566.4	970.9	463.5	0.77	-0.74	0.21	15.1	6.0	
13,715.0	94.20	3.00	12,563.1	1,063.6	469.7	4.97	4.62	-1.83	14.4	-0.9	
13,809.0	90.30	1.80	12,559.4	1,157.4	473.7	4.34	-4.15	-1.28	13.4	-5.5	
13,903.0	96.50	1.20	12,553.8	1,251.2	478.1	6.63	6.60	-0.64	10.6	-8.6	
13,997.0	93.60	0.20	12,545.6	1,344.8	477.3	3.26	-3.09	-1.06	5.0	-10.4	
14,090.0	91.70	359.30	12,541.3	1,437.7	476.9	2.26	-2.04	-0.97	2.8	-10.6	
14,183.0	90.70	359.50	12,539.3	1,530.7	475.9	1.10	-1.08	0.22	2.5	-10.3	
14,277.0	92.10	356.60	12,537.0	1,624.6	472.7	3.42	1.49	-3.09	1.9	-7.7	
14,370.0	92.00	0.30	12,533.7	1,717.4	470.2	3.98	-0.11	3.88	0.3	-5.8	
14,464.0	89.80	0.80	12,532.2	1,811.4	471.1	2.40	-2.34	0.53	0.6	-7.4	
14,558.0	88.90	359.10	12,533.3	1,905.4	471.0	2.05	-0.96	-1.81	3.3	-7.9	
14,651.0	90.30	358.00	12,533.9	1,999.4	468.7	1.91	1.51	-1.18	5.7	-8.2	
14,745.0	90.00	358.30	12,533.7	2,092.3	465.6	0.45	-0.32	0.32	7.2	-3.8	
14,838.0	87.70	357.40	12,535.5	2,185.2	462.1	2.66	-2.47	-0.97	10.7	-1.0	
14,931.0	91.00	356.90	12,536.6	2,278.1	457.5	3.59	3.55	-0.54	13.5	3.0	
15,024.0	88.80	356.20	12,536.8	2,370.9	451.9	2.48	-2.37	-0.76	15.4	8.0	
15,118.0	89.80	357.10	12,537.9	2,464.8	446.4	1.43	1.06	0.96	18.2	12.8	
15,212.0	92.40	0.00	12,536.1	2,558.7	444.0	4.14	2.77	3.09	18.1	14.6	
15,305.0	87.10	358.90	12,536.5	2,651.7	443.1	5.82	-5.70	-1.16	20.2	14.8	
15,399.0	93.10	359.40	12,536.3	2,745.6	441.8	6.41	6.38	0.53	21.8	15.6	
15,492.0	92.00	358.90	12,532.2	2,838.5	440.4	1.30	-1.18	-0.54	19.3	16.3	
15,586.0	92.30	359.40	12,528.7	2,932.4	439.0	0.62	0.32	0.53	17.5	17.1	



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15,679.0	89.60	358.00	12,527.1	3,025.4	436.9	3.27	-2.90	-1.51	17.5	18.5	
15,773.0	83.30	0.70	12,524.8	3,119.3	435.8	4.87	3.94	2.87	16.1	19.0	
15,866.0	91.40	359.00	12,521.0	3,212.2	435.6	2.74	-2.04	-1.83	13.2	18.6	
15,960.0	91.60	359.80	12,518.5	3,306.2	434.6	0.88	0.21	0.85	11.7	18.9	
16,053.0	89.30	3.80	12,517.8	3,399.1	437.5	4.96	-2.47	4.30	12.0	15.3	
16,146.0	91.00	2.00	12,517.5	3,492.0	442.2	2.66	1.83	-1.94	12.6	10.0	
16,239.0	90.30	1.20	12,516.5	3,584.9	444.8	1.14	-0.75	-0.86	12.5	6.8	
16,333.0	91.10	1.20	12,515.3	3,678.9	446.8	0.85	0.85	0.00	12.3	4.2	
16,426.0	92.00	0.50	12,512.8	3,771.9	448.1	1.23	0.97	-0.75	10.7	2.2	
16,519.0	92.50	0.60	12,509.1	3,864.8	449.0	0.55	0.54	0.11	8.0	0.6	
16,612.0	89.40	0.20	12,507.8	3,957.8	449.7	3.36	-3.33	-0.43	7.4	-0.7	
16,705.0	88.90	359.90	12,509.0	4,050.8	449.8	0.63	-0.54	-0.32	9.8	-1.4	
16,799.0	92.70	1.00	12,507.7	4,144.7	450.5	4.21	4.04	1.17	9.6	-2.7	
16,893.0	88.30	359.90	12,506.9	4,238.7	451.2	4.82	-4.68	-1.17	9.9	-4.1	
16,986.0	88.00	359.90	12,509.9	4,331.6	451.1	0.32	-0.32	0.00	14.0	-4.6	
17,080.0	90.60	0.00	12,511.0	4,425.6	451.0	2.77	2.77	0.11	16.2	-5.2	
17,174.0	91.60	359.40	12,509.2	4,519.6	450.5	1.24	1.06	-0.94	15.5	-5.3	
17,267.0	91.80	359.70	12,506.4	4,612.6	449.8	0.39	0.22	0.32	13.8	-5.2	
17,360.0	92.30	359.50	12,503.1	4,705.5	449.1	0.58	0.54	-0.22	11.5	-5.2	
17,419.0	93.10	0.00	12,500.3	4,764.4	448.9	1.60	1.36	0.85	9.4	-5.4	
17,475.0	93.10	0.00	12,497.3	4,820.4	448.9	0.00	0.00	0.00	7.1	-5.7	



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hemlock 32 State
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3690.0usft
MD Reference: KB = 25 @ 3690.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,993.0	11,969.1	-297.1	488.4	KOP, MD:11993.0', TVD:11969.1', N/S:-297.1', E/W:488.4', INC:3.08
12,267.7	12,232.7	-230.0	474.3	FTP Crossing, MD:12267.7', TVD:12232.7', N/S:-230.0', E/W:474.3', INC:26.87
17,419.0	12,500.3	4,764.4	448.9	Last MWD Survey (MD=17419.0')
17,475.0	12,497.3	4,820.4	448.9	Projection to Bit (MD=17475.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Hemlock 32 State #704H

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: #704H

KB = 25 @ 3630.0ust 3645.0
Northing 437231.00 Easting 768978.00 Latitude 32° 15' 17.458 N Longitude 103° 35' 49.027 W

SECTION DETAILS

Sec	MD	Inc	Adj	TVD	+N-S	+E-W	Obs	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0		
3	1864.7	8.29	120.36	1684.3	-4.2	10.5	2.00	120.36	-4.2		
4	7325.5	8.29	120.36	7176.7	-372.8	467.5	0.00	0.00	-230.1		
5	7589.2	0.00	0.00	7589.2	-280.0	478.0	2.00	180.00	-238.3		Brushy Top(Hemlock 32 State #704H)
6	12115.7	0.00	0.00	12088.6	-280.0	478.0	0.00	0.00	-238.3		
7	12359.8	80.74	359.61	12589.8	202.7	474.7	11.00	538.81	248.1		
8	13325.1	80.74	359.61	12589.8	659.8	471.4	0.00	0.00	700.0		TOTW(Hemlock 32 State #704H)
9	15371.9	91.88	359.61	12633.0	708.5	471.3	2.00	0.00	748.8		TOTW(Hemlock 32 State #704H)
10	14029.7	91.88	359.61	12540.0	1283.1	468.9	0.00	0.00	1400.0		TOTW(Hemlock 32 State #704H)
11	14080.3	91.05	359.61	12538.3	1253.7	468.8	2.00	180.00	1430.4		TOTW(Hemlock 32 State #704H)
12	16642.8	91.05	359.61	12810.0	2898.9	455.4	0.00	0.00	3028.0		TOTW(Hemlock 32 State #704H)
13	16834.2	90.88	359.61	12908.7	3019.3	455.5	2.00	180.00	3043.2		TOTW(Hemlock 32 State #704H)
14	16842.8	90.88	359.61	12900.0	3078.8	448.9	0.00	0.00	4000.0		TOTW(Hemlock 32 State #704H)
15	16844.8	90.88	359.61	12900.0	3079.8	448.9	2.00	0.00	4004.1		TOTW(Hemlock 32 State #704H)
16	17505.1	90.88	359.61	13490.0	4941.0	443.0	0.00	0.00	4951.2		PEH(Hemlock 32 State #704H)

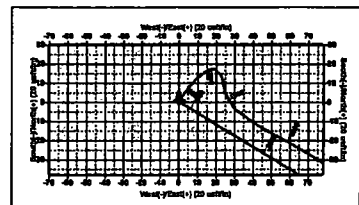
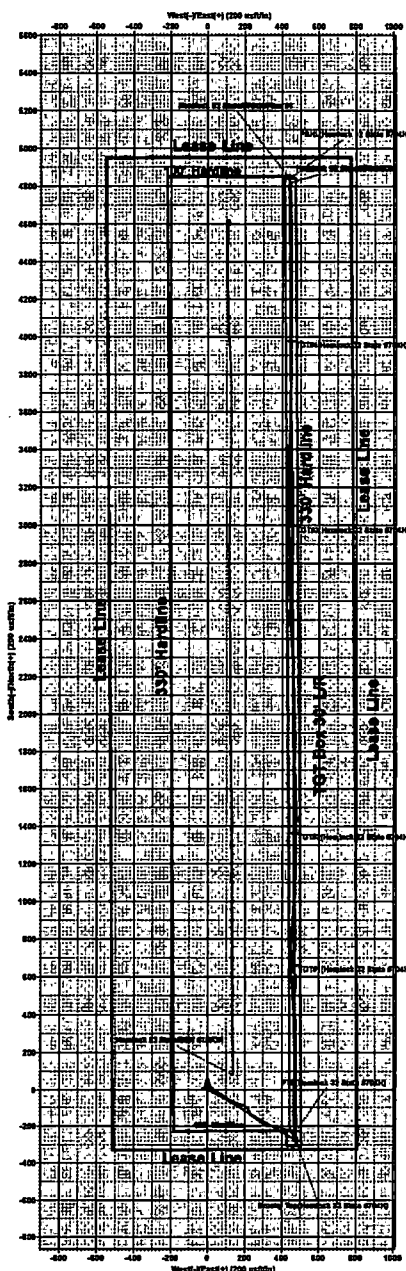
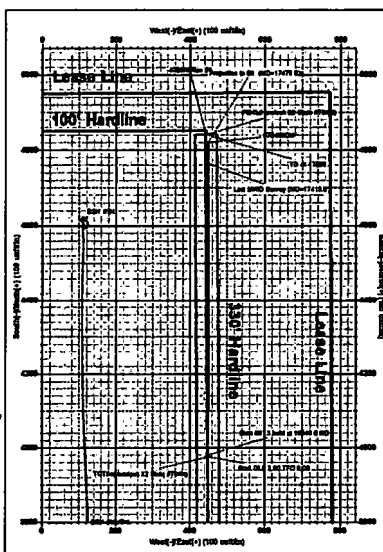
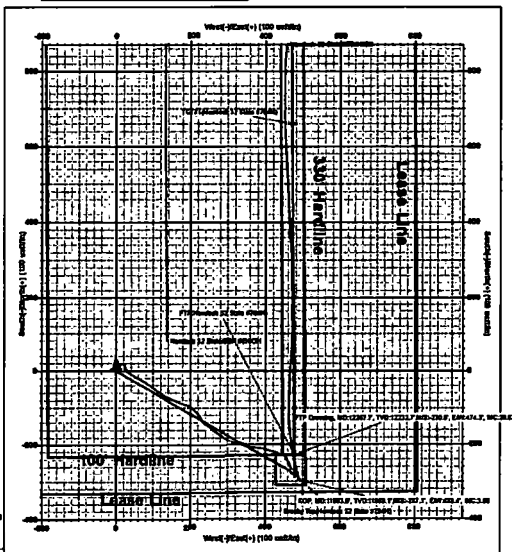
To convert a Magnetic Direction to a Grid Direction, Add 8.40°
To convert a Magnetic Direction to a True Direction, Add 8.80° East
To convert a True Direction to a Grid Direction, Subtract 0.20°

CASINO DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Hemlock 32 State #704H)	7643.0	-280.0	478.0	438351.00	763454.00
TOTW(Hemlock 32 State #704H)	12550.0	630.8	471.8	457086.90	763447.50
TOTW(Hemlock 32 State #704H)	12543.0	1383.1	468.8	455334.10	763442.77
TOTW(Hemlock 32 State #704H)	12610.0	2898.9	455.4	462228.90	763431.81
TOTW(Hemlock 32 State #704H)	12504.0	3078.8	448.9	461208.90	763424.91
PEH(Hemlock 32 State #704H)	13490.0	4941.0	443.0	462073.00	763419.00
FTP(Hemlock 32 State #704H)	12970.0	-230.0	478.0	457001.00	763454.00



Scale 1:10000
1 inch = 1000 feet