



HOBBS OCD
MAY 17 2019
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#703H

OH

Design: OH

Midland PVA

12 March, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3571.0usft
Site:	Hearthrob 17 state	MD Reference:	KB = 25 @ 3571.0usft
Well:	#703H	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	Hearthrob 17 state		
Site Position:		Northing:	441,886.00 usft
From:	Map	Easting:	787,698.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 45.730 N
		Longitude:	103° 38' 5.128 W
		Grid Convergence:	0.39 °

Well	#703H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 12' 42.028 N
		Longitude:	103° 35' 57.788 W
		Ground Level:	3,548.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	8/23/2018	8.84
			Dip Angle (°)
			60.03
			Field Strength (nT)
			47,805.30617576

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 (°)
			4.99

Survey Program	Date 3/12/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
138.0	17,470.0	Newsco MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3571.0usft
 MD Reference: KB = 25 @ 3571.0usft
 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)	DLag (°/100usft)	Bulld (°/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	0.90	291.00	138.0	0.4	-1.0	0.65	0.85	0.00	0.0	0.0
320.0	0.80	273.90	320.0	1.0	-3.6	0.15	-0.05	-9.40	0.0	0.0
508.0	0.60	291.60	508.0	1.4	-5.8	0.16	-0.11	9.52	0.0	0.0
686.0	0.50	273.30	686.0	1.8	-7.5	0.11	-0.06	-10.17	0.0	0.0
864.0	0.80	233.50	863.9	1.1	-9.2	0.29	0.17	-22.36	0.0	0.0
1,045.0	0.60	226.10	1,044.9	-0.3	-10.9	0.12	-0.11	-4.09	0.0	0.0
1,226.0	0.90	231.00	1,225.9	-1.8	-12.7	0.17	0.17	2.71	0.0	0.0
1,269.0	0.80	216.20	1,268.9	-2.3	-13.2	0.58	-0.23	-34.42	0.0	0.0
1,409.0	0.70	224.20	1,408.9	-3.7	-14.3	0.10	-0.07	5.71	0.0	0.0
1,590.0	0.80	248.70	1,589.9	-4.9	-18.3	0.18	0.06	13.54	0.0	0.0
1,771.0	1.10	244.70	1,770.9	-6.1	-19.0	0.17	0.17	-2.21	0.0	0.0
1,951.0	1.30	267.80	1,950.8	-7.0	-22.6	0.29	0.11	12.83	0.0	0.0
2,132.0	1.40	137.20	2,131.8	-8.7	-23.2	1.36	0.06	-72.15	0.0	0.0
2,313.0	1.10	131.80	2,312.8	-11.4	-20.4	0.18	-0.17	-2.98	0.0	0.0
2,494.0	0.60	119.50	2,493.7	-13.1	-18.3	0.29	-0.28	-6.80	0.0	0.0
2,674.0	1.10	96.50	2,673.7	-13.7	-15.7	0.33	0.28	-12.78	0.0	0.0
2,855.0	1.10	85.90	2,854.7	-13.8	-12.3	0.11	0.00	-5.86	0.0	0.0
3,035.0	3.30	123.40	3,034.5	-16.5	-6.2	1.40	1.22	20.83	0.0	0.0
3,216.0	7.40	121.80	3,214.7	-25.5	8.0	2.27	2.27	-0.88	0.0	0.0
3,396.0	7.60	124.70	3,393.2	-38.4	27.7	0.24	0.11	1.61	0.0	0.0
3,577.0	5.90	127.10	3,572.9	-50.8	44.9	0.65	-0.94	1.33	0.0	0.0
3,757.0	9.00	131.80	3,751.4	-65.8	62.8	1.75	1.72	2.61	0.0	0.0
3,938.0	8.90	132.90	3,930.2	-84.8	83.6	0.11	-0.06	0.61	0.0	0.0
4,119.0	7.20	129.50	4,109.4	-101.5	102.6	0.97	-0.94	-1.88	0.0	0.0
4,300.0	10.90	125.40	4,288.1	-118.7	125.3	2.07	2.04	-2.27	0.0	0.0
4,480.0	10.80	120.40	4,464.9	-137.1	153.8	0.53	-0.06	-2.78	0.0	0.0



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Well:	#703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,861.0	11.50	123.80	4,642.5	-155.7	183.4	0.53	0.39	1.88	0.0	0.0	
4,841.0	10.90	127.50	4,819.0	-176.0	211.8	0.52	-0.33	2.06	0.0	0.0	
5,022.0	8.00	126.00	4,697.6	-193.8	235.6	1.61	-1.60	-0.83	0.0	0.0	
5,203.0	7.50	124.60	5,176.9	-208.0	255.5	0.30	-0.28	-0.77	0.0	0.0	
5,383.0	7.30	124.00	5,355.4	-221.0	274.6	0.12	-0.11	-0.33	0.0	0.0	
5,564.0	7.50	121.40	5,534.9	-233.6	294.2	0.22	0.11	-1.44	0.0	0.0	
5,744.0	8.00	117.80	5,713.3	-245.6	315.3	0.39	0.28	-2.00	0.0	0.0	
5,825.0	6.50	123.00	5,892.8	-257.0	335.1	0.90	-0.83	2.67	0.0	0.0	
6,105.0	6.60	140.50	6,071.7	-270.6	350.2	1.11	0.06	9.72	0.0	0.0	
6,286.0	6.20	137.20	6,251.5	-285.8	363.5	0.30	-0.22	-1.82	0.0	0.0	
6,467.0	6.60	136.40	6,431.4	-300.5	377.3	0.23	0.22	-0.44	0.0	0.0	
6,647.0	6.70	138.10	6,610.2	-315.8	391.4	0.12	0.06	0.94	0.0	0.0	
6,827.0	6.40	149.20	6,789.0	-332.2	403.6	0.72	-0.17	6.17	0.0	0.0	
7,008.0	5.90	150.90	6,869.0	-349.0	413.3	0.28	-0.28	0.94	0.0	0.0	
7,188.0	6.00	149.40	7,148.0	-365.2	422.6	0.10	0.06	-0.83	0.0	0.0	
7,369.0	3.80	147.20	7,328.3	-378.4	430.6	1.22	-1.22	-1.22	0.0	0.0	
7,550.0	2.00	174.40	7,509.1	-386.5	434.2	1.23	-0.99	15.03	0.0	0.0	
7,730.0	1.90	184.90	7,689.0	-392.6	434.2	0.21	-0.06	5.83	0.0	0.0	
7,911.0	1.80	178.40	7,869.9	-398.5	434.1	0.13	-0.06	-3.59	0.0	0.0	
8,092.0	1.80	189.40	8,050.8	-404.1	433.7	0.19	0.00	6.08	0.0	0.0	
8,272.0	1.90	183.70	8,230.7	-409.9	433.0	0.12	0.06	-3.17	0.0	0.0	
8,453.0	2.20	189.00	8,411.6	-416.3	432.3	0.20	0.17	2.93	0.0	0.0	
8,633.0	2.20	205.20	8,591.5	-422.9	430.3	0.34	0.00	9.00	0.0	0.0	
8,814.0	2.00	208.00	8,772.4	-428.8	427.3	0.12	-0.11	1.55	0.0	0.0	
8,995.0	1.90	222.00	8,953.3	-433.8	423.8	0.27	-0.06	7.73	0.0	0.0	
9,175.0	0.60	280.20	9,133.2	-435.9	420.9	0.92	-0.72	32.33	0.0	0.0	
9,356.0	1.10	267.90	9,314.2	-435.7	418.2	0.29	0.28	-6.80	0.0	0.0	



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 North Reference: Grid
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Survey

MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,537.0	2.10	8.80	9,495.1	-432.5	417.0	1.41	0.55	55.75	0.0	0.0
9,717.0	1.40	284.10	9,675.1	-428.7	415.4	1.34	-0.39	-47.08	0.0	0.0
9,898.0	1.40	341.70	9,856.0	-426.1	412.5	0.75	0.00	31.82	0.0	0.0
10,079.0	2.60	27.10	10,036.9	-420.3	413.7	1.05	0.66	25.08	0.0	0.0
10,260.0	2.60	21.20	10,217.7	-412.9	417.1	0.15	0.00	-3.26	0.0	0.0
10,440.0	1.10	31.10	10,397.6	-407.6	419.4	0.85	-0.83	5.50	0.0	0.0
10,621.0	0.80	6.50	10,578.6	-404.8	420.5	0.28	-0.17	-13.59	0.0	0.0
10,802.0	1.00	131.20	10,759.6	-404.6	421.8	0.88	0.11	68.90	0.0	0.0
10,982.0	1.20	143.70	10,939.6	-407.2	424.1	0.17	0.11	6.94	0.0	0.0
11,163.0	1.40	242.90	11,120.6	-409.7	423.2	1.10	0.11	54.81	0.0	0.0
11,344.0	1.00	56.20	11,301.5	-409.8	422.6	1.32	-0.22	85.75	0.0	0.0
11,525.0	0.90	259.90	11,482.5	-409.2	422.5	1.03	-0.06	-86.35	0.0	0.0
11,705.0	0.30	1.40	11,662.5	-409.0	421.1	0.56	-0.33	56.39	0.0	0.0
11,822.0	0.70	271.90	11,779.5	-408.7	420.4	0.65	0.34	-76.50	0.0	0.0
11,972.0	1.30	230.80	11,929.5	-409.7	418.2	0.60	0.40	-27.40	-1.0	0.6
12,062.0	1.50	223.30	12,019.5	-411.2	416.6	0.30	0.22	-8.33	-2.5	1.2
12,152.0	6.00	29.50	12,109.3	-408.0	418.1	8.29	5.00	184.67	3.9	-3.7
12,242.0	20.50	15.10	12,198.7	-388.5	424.5	16.40	16.11	-16.00	5.8	-9.3
12,333.0	37.90	10.80	12,275.9	-345.4	434.0	19.25	19.12	-4.73	-0.4	-15.9
12,423.0	53.00	12.30	12,338.8	-282.7	446.9	16.82	16.78	1.67	-16.0	-24.6
12,513.0	58.90	7.20	12,389.2	-209.3	459.4	8.06	6.56	-5.67	-29.3	-33.9
12,603.0	63.60	3.50	12,432.5	-130.8	466.7	6.34	5.22	-4.11	-33.4	-38.1
12,693.0	69.50	359.10	12,468.3	-48.3	468.5	7.94	6.56	-4.89	-27.9	-36.1
12,784.0	74.40	356.70	12,496.5	38.1	465.3	5.94	5.38	-2.84	-13.8	-27.8
12,875.0	88.90	354.40	12,509.7	127.7	458.3	16.13	15.93	-2.53	-1.9	-15.6
12,965.0	90.50	354.50	12,510.2	217.2	449.6	1.78	1.78	0.11	-0.7	-4.7
13,055.0	91.80	354.70	12,508.4	306.8	441.2	1.46	1.44	0.22	-1.7	3.5



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13,145.0	94.20	358.50	12,503.6	398.4	434.3	3.33	2.67	2.00	-5.6	9.7	
13,236.0	91.80	358.00	12,498.9	487.2	429.9	3.11	-2.64	1.65	-9.6	13.4	
13,326.0	90.50	359.50	12,497.1	577.1	427.9	2.21	-1.44	1.67	-10.6	14.7	
13,416.0	90.40	359.50	12,496.4	667.1	427.2	0.11	-0.11	0.00	-10.5	14.8	
13,506.0	90.40	358.90	12,495.7	757.1	425.9	0.67	0.00	-0.67	-10.4	15.4	
13,596.0	90.30	359.20	12,495.2	847.1	424.4	0.35	-0.11	0.33	-10.2	16.3	
13,687.0	87.30	0.10	12,497.1	938.1	423.8	3.44	-3.30	0.99	-7.4	16.2	
13,777.0	87.60	1.30	12,501.1	1,028.0	424.9	1.37	0.33	1.33	-2.7	14.4	
13,867.0	91.50	2.60	12,501.8	1,117.9	428.0	4.57	4.33	1.44	-1.2	10.7	
13,957.0	92.70	3.90	12,498.5	1,207.7	433.1	1.97	1.33	1.44	-3.7	4.9	
14,048.0	91.90	3.20	12,494.9	1,298.4	438.7	1.17	-0.88	-0.77	-6.4	-1.4	
14,138.0	92.00	3.00	12,491.8	1,388.3	443.6	0.25	0.11	-0.22	-8.5	-6.9	
14,228.0	93.70	2.70	12,487.3	1,478.0	448.1	1.92	1.89	-0.33	-12.0	-12.1	
14,318.0	91.30	1.90	12,483.4	1,567.9	451.7	2.81	-2.67	-0.89	-14.9	-16.3	
14,409.0	89.30	1.50	12,482.9	1,658.8	454.4	2.24	-2.20	-0.44	-14.4	-19.7	
14,499.0	87.70	1.40	12,485.3	1,748.8	456.7	1.78	-1.78	-0.11	-11.1	-22.6	
14,589.0	88.00	0.20	12,487.9	1,838.7	457.9	1.97	1.44	-1.33	-7.5	-24.5	
14,679.0	89.90	357.10	12,488.7	1,928.7	455.8	3.59	1.00	-3.44	-5.6	-23.1	
14,769.0	89.20	357.50	12,489.4	2,018.6	451.5	0.90	-0.78	0.44	-3.9	-19.5	
14,859.0	88.10	358.00	12,491.6	2,108.4	446.4	2.07	-1.22	-1.67	-0.8	-15.1	
14,950.0	88.10	358.10	12,494.6	2,198.1	440.2	0.11	0.00	0.11	2.9	-9.5	
15,040.0	91.60	358.40	12,494.8	2,289.0	435.9	4.65	3.89	2.56	3.4	-5.8	
15,130.0	91.80	359.50	12,492.1	2,378.9	434.2	1.24	0.22	1.22	1.0	-4.8	
15,220.0	93.80	1.70	12,487.7	2,468.8	435.2	3.30	2.22	2.44	-3.0	-6.4	
15,310.0	89.20	2.60	12,485.4	2,558.7	438.5	5.21	-5.11	1.00	-5.1	-10.5	
15,400.0	91.40	1.20	12,484.9	2,648.6	441.5	2.90	2.44	-1.56	-5.2	-14.1	
15,491.0	90.60	358.90	12,483.3	2,739.6	441.6	2.68	-0.88	-2.53	-6.5	-14.9	



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15,581.0	91.00	3.00	12,482.1	2,829.6	443.1	4.58	0.44	4.56	-7.5	-17.0
15,671.0	92.50	2.90	12,479.3	2,919.4	447.7	1.67	1.67	-0.11	-9.9	-22.4
15,762.0	89.90	2.20	12,477.4	3,010.3	451.8	2.98	-2.88	-0.77	-11.5	-27.0
15,852.0	89.80	1.00	12,477.8	3,100.3	454.3	1.37	-0.33	-1.33	-10.8	-30.2
15,942.0	89.20	359.50	12,478.7	3,190.2	454.7	1.72	-0.44	-1.67	-9.5	-31.3
16,033.0	90.10	355.70	12,479.3	3,281.1	450.9	4.29	0.99	-4.18	-8.7	-28.1
16,123.0	91.10	355.10	12,478.4	3,370.9	443.6	1.30	1.11	-0.67	-9.3	-21.6
16,213.0	92.90	356.00	12,475.2	3,460.5	436.7	2.24	2.00	1.00	-12.2	-15.3
16,303.0	95.30	357.40	12,468.8	3,550.1	431.5	3.09	2.67	1.56	-18.2	-10.8
16,394.0	90.20	357.20	12,464.4	3,640.9	427.2	5.61	-5.60	-0.22	-22.3	-7.2
16,484.0	89.80	356.70	12,464.4	3,730.8	422.4	0.71	-0.44	-0.56	-22.0	-3.0
16,574.0	89.60	358.10	12,464.9	3,820.7	418.3	1.57	-0.22	1.56	-21.2	0.4
16,664.0	91.30	356.20	12,464.2	3,910.6	413.9	2.83	1.89	-2.11	-21.6	4.2
16,754.0	93.40	358.00	12,460.5	4,000.4	409.3	3.07	2.33	2.00	-25.0	8.1
16,845.0	91.90	359.00	12,456.3	4,091.2	406.9	1.98	-1.65	1.10	-28.9	9.8
16,935.0	88.40	0.50	12,456.1	4,181.2	406.5	4.23	-3.89	1.67	-28.8	9.5
17,025.0	86.80	1.70	12,459.6	4,271.1	406.3	2.22	-1.78	1.33	-24.7	7.1
17,116.0	88.00	2.50	12,464.0	4,361.9	411.6	1.58	1.32	0.88	-20.3	3.1
17,206.0	87.40	2.10	12,467.8	4,451.8	415.2	0.80	-0.67	-0.44	-16.4	-1.2
17,296.0	88.50	2.60	12,470.8	4,541.7	418.9	1.34	1.22	0.56	-12.8	-5.5
17,386.0	89.20	2.30	12,472.6	4,631.6	422.7	0.85	0.78	-0.33	-10.7	-10.0
17,408.0	89.20	2.30	12,472.9	4,653.5	423.6	0.00	0.00	0.00	-10.3	-11.1
17,470.0	89.20	2.30	12,473.6	4,715.5	426.1	0.00	0.00	0.00	-9.3	-14.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3571.0usft
Site:	Hearthrob 17 state	MD Reference:	KB = 25 @ 3571.0usft
Well:	#703H	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)	
12,100.0	12,057.5	-411.0	416.5	KOP, MD:12100.0', TVD:12057.5', N/S:-411.0', E/W:416.5', INC:1.70
12,320.0	12,265.4	-353.0	432.5	FTP Crossing, MD:12320.0', TVD:12265.4', N/S:-353.0', E/W:432.5', INC:35.41
17,408.0	12,472.9	4,653.5	423.6	Last MWD Survey (MD=17408.0')
17,470.0	12,473.8	4,715.5	426.1	Projection to Bit (MD=17470.0')

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Heartthrob 17 state #703H

Plan #3

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: #703H

KB = 25 @ 3571.0ust
Northing 441616.00 Easting 768331.00
Latitude 32° 12' 42.028 N Longitude 103° 35' 57.758 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	11822.0	0.70	271.90	11779.5	-408.7	420.4	0.00	0.00	-370.5	
2	12077.0	0.70	271.90	12034.5	-408.6	417.3	0.00	0.00	-370.7	
3	12831.3	90.50	3.40	12512.1	72.6	440.0	12.00	91.49	110.6	
4	13022.4	90.50	359.58	12510.4	263.5	445.0	2.00	-90.04	301.3	
5	13992.5	90.50	359.58	12502.0	1233.6	437.8	0.00	0.00	1267.0	TGT#1(HT 17 St #703H)
6	13999.3	90.63	359.58	12501.9	1240.4	437.8	2.00	-0.02	1273.6	
7	14899.6	90.63	359.58	12492.0	2140.6	431.2	0.00	0.00	2170.0	TGT#2(HT 17 St #703H)
8	14921.3	90.20	359.58	12491.8	2162.3	431.0	2.00	-179.56	2191.6	
9	17475.1	90.20	359.58	12483.0	4716.0	412.1	0.00	0.00	4734.0	PBHL(HT 17 St #703H)

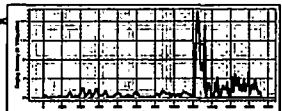
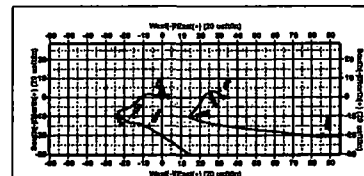
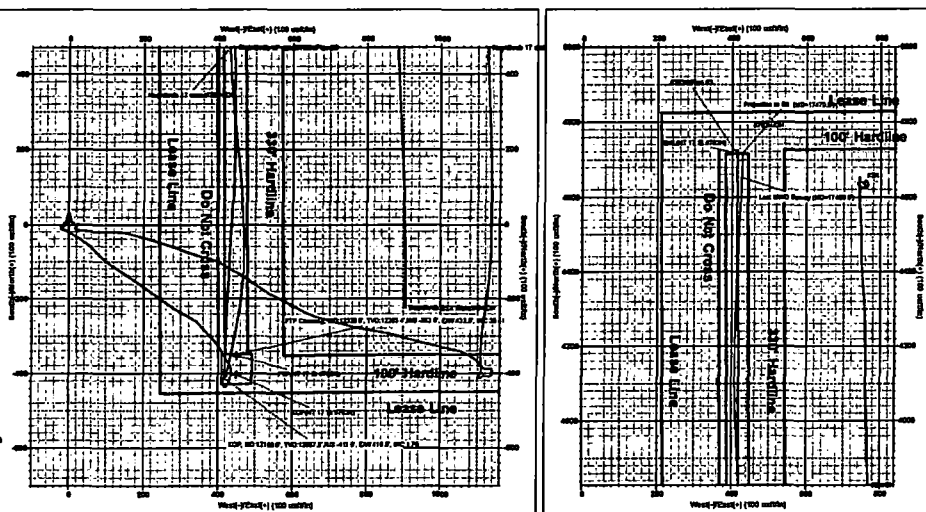
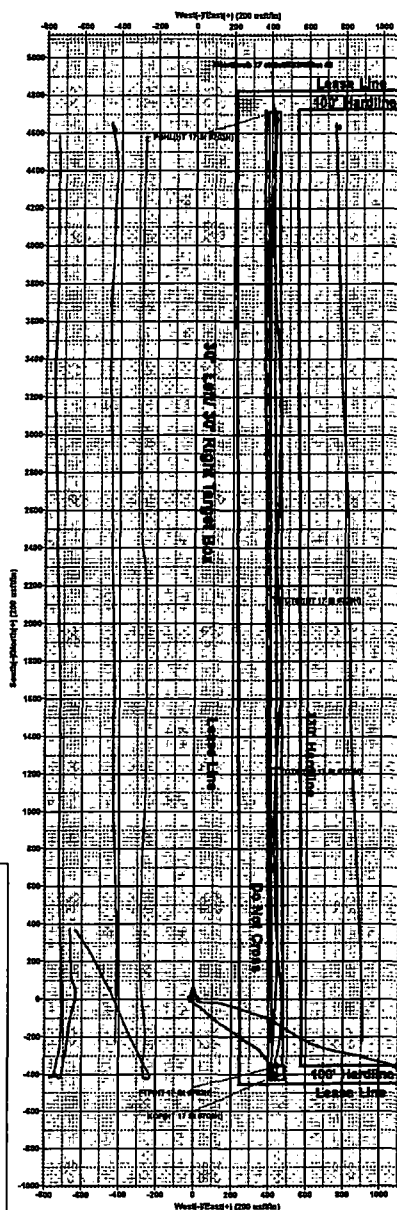
To convert a Magnetic Direction to a Grid Direction, Add 6.43°
To convert a Magnetic Direction to a True Direction, Add 6.84° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

CASING DETAILS

No casing data is available

WELLSBORE YARSEY DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOPR(HT 17 St #703H)	12022.5	-408.0	450.0	441115.00	768781.00
PBHL(HT 17 St #703H)	12483.0	4716.0	412.1	44221.89	768743.07
TGT#1(HT 17 St #703H)	12492.0	2140.6	431.2	44358.60	768762.16
TGT#2(HT 17 St #703H)	12501.9	1234.6	437.8	44274.90	768768.92
FTTH(HT 17 St #703H)	12513.0	-383.0	450.0	441163.00	768791.00



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