



HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Yarrow 32 State
#704H
OH

Design: OH

Final PVA Report

31 March, 2019



Final PVA Report

Company: EOG Resources - Midland	Local Co-ordinate Reference: Well #704H
Project: Lea County, NM (NAD 83 NME)	TVD Reference: KB = 25 @ 3697.0usft
Site: Yarrow 32 State	MD Reference: KB = 25 @ 3697.0usft
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 Yarrow 32 State	
Site Position: Northing: 457,304.00 usft	Latitude: 32° 15' 18.011 N
From: Map Easting: 771,882.00 usft	Longitude: 103° 35' 15.414 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "
	Grid Convergence: 0.40 "

Well #704H		
Well Position +N-S 0.0 usft	Northing: 457,299.00 usft	Latitude: 32° 15' 18.042 N
+E-W 0.0 usft	Easting: 770,689.00 usft	Longitude: 103° 35' 29.074 W
Position Uncertainty 0.0 usft	Wellhead Elevation: usft	Ground Level: 3,672.0 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/16/2018	6.82	60.07	47,815.68105256

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	352.72

Survey Program	Date 3/31/2019			
From (usft)	To (usft)	Survey (WellBore)	Tool Name	Description
145.0	17,467.0	Intrepid MWD #1 (OH)	MWD	OWSG MWD - Standard



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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 (")	Azi (grid_north_azim)	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	0.00	0.0	0.0
145.0	0.60	127.10	145.0	-0.5	0.6	0.41	0.41	0.00	-0.8	0.0	
324.0	0.40	244.60	324.0	-1.3	0.8	0.48	-0.11	65.64	0.2	1.5	
503.0	0.70	263.00	503.0	-1.7	-0.9	0.19	0.17	10.28	-1.1	1.8	
690.0	0.70	251.00	690.0	-2.2	-3.1	0.08	0.00	-6.42	-3.8	1.1	
880.0	1.10	269.10	879.9	-2.6	-6.0	0.26	0.21	9.53	-6.0	2.5	
1,070.0	1.20	258.20	1,069.9	-3.0	-8.8	0.13	0.05	-5.74	-10.2	1.0	
1,260.0	2.00	284.10	1,259.8	-2.6	-14.9	0.56	0.42	13.63	-13.8	6.2	
1,385.0	1.60	292.40	1,384.8	-1.4	-18.7	0.38	-0.32	6.64	-16.7	8.5	
1,545.0	1.40	305.60	1,544.7	0.5	-22.3	0.25	-0.12	8.25	-16.5	12.6	
1,736.0	2.00	265.50	1,735.6	1.6	-27.5	0.68	0.31	-20.99	-27.3	-3.8	
1,925.0	6.00	252.50	1,924.1	-1.6	-40.2	2.16	2.12	-6.88	-38.8	-10.6	
2,115.0	6.20	247.10	2,113.1	-8.6	-59.2	0.32	0.11	-2.84	-57.8	-15.2	
2,305.0	6.30	238.70	2,301.9	-18.0	-77.5	0.48	0.05	-4.42	-75.5	-25.1	
2,495.0	5.50	242.80	2,490.9	-27.6	-94.5	0.48	-0.42	2.16	-96.3	-18.8	
2,685.0	4.80	244.70	2,680.2	-35.2	-110.0	0.33	-0.32	1.00	-104.5	-16.2	
2,875.0	3.60	250.90	2,869.6	-40.8	-123.4	0.58	-0.53	3.26	-98.2	-8.7	
3,065.0	3.00	249.80	3,059.2	-44.6	-134.2	0.47	-0.47	-0.58	-83.4	-15.6	
3,255.0	2.90	247.60	3,249.0	-48.1	-143.3	0.08	-0.05	-1.05	-66.4	-22.7	
3,445.0	4.40	237.90	3,438.6	-53.8	-153.9	0.85	0.79	-5.21	-47.1	-33.9	
3,635.0	4.40	238.50	3,628.0	-61.5	-166.3	0.02	0.00	0.32	-35.5	-33.1	
3,825.0	3.50	239.10	3,817.8	-68.3	-177.5	0.47	-0.47	0.32	-22.4	-32.6	
4,015.0	2.80	240.40	4,007.3	-73.6	-186.5	0.37	-0.37	0.68	-7.1	-32.6	
4,204.0	2.20	236.80	4,196.1	-77.8	-193.6	0.33	-0.32	-2.01	13.1	-32.2	
4,395.0	1.50	217.10	4,387.0	-81.9	-198.1	0.49	-0.37	-10.21	41.7	-17.4	
4,584.0	1.30	166.30	4,576.0	-85.9	-199.1	0.64	-0.11	-26.88	44.1	44.5	
4,774.0	1.60	140.80	4,765.9	-90.1	-186.9	0.37	0.16	-13.42	12.4	84.4	



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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 (°)	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)	
4,864.0	2.30	129.90	4,955.8	-94.6	-182.3	0.42	0.37	-5.74	-18.6	108.8	
5,099.0	1.70	125.60	5,090.7	-97.5	-188.6	0.46	-0.44	-3.19	-39.1	125.1	
5,202.0	1.70	124.70	5,193.7	-99.2	-186.1	0.03	0.00	-0.87	-50.0	137.5	
5,234.0	1.70	130.00	5,225.7	-99.8	-185.4	0.49	0.00	16.56	-39.5	145.8	
5,424.0	8.60	208.90	5,414.9	-114.1	-180.1	4.44	3.63	41.53	143.7	82.7	
5,615.0	12.70	216.40	5,602.6	-143.5	-209.4	2.26	2.15	3.93	142.3	75.7	
5,805.0	14.50	221.50	5,787.2	-178.1	-237.6	1.14	0.95	2.68	128.7	72.8	
5,996.0	15.50	222.80	5,971.7	-214.7	-270.8	0.55	0.52	0.68	105.9	77.8	
6,187.0	15.10	223.00	6,156.0	-251.7	-305.1	0.21	-0.21	0.10	80.9	84.7	
6,376.0	15.60	223.60	6,338.2	-288.1	-339.4	0.28	0.26	0.32	56.7	91.0	
6,566.0	17.10	224.20	6,520.5	-326.6	-376.5	0.79	0.79	0.32	29.4	97.3	
6,756.0	15.60	239.60	6,702.9	-359.8	-418.0	2.41	-0.79	8.11	27.0	93.5	
6,946.0	13.40	257.80	6,887.0	-377.2	-461.6	2.65	-1.16	9.58	32.7	80.2	
7,137.0	11.50	270.80	7,073.5	-381.6	-502.3	1.77	-0.99	6.81	31.7	61.8	
7,327.0	8.00	277.20	7,260.7	-379.7	-534.4	1.93	-1.84	3.37	27.2	43.6	
7,517.0	4.30	332.40	7,449.8	-371.7	-550.8	3.46	-1.95	29.05	35.6	-4.6	
7,707.0	4.30	344.70	7,639.2	-358.5	-556.0	0.46	0.00	6.47	18.3	-15.8	
7,896.0	3.60	348.50	7,827.8	-345.9	-559.0	0.40	-0.37	2.01	4.2	-16.5	
8,086.0	3.40	351.80	8,017.4	-334.4	-581.1	0.14	-0.11	1.83	-8.3	-16.3	
8,275.0	2.70	355.70	8,206.1	-324.4	-582.2	0.39	-0.37	2.17	-19.5	-15.3	
8,465.0	2.20	346.90	8,396.0	-316.4	-583.4	0.33	-0.26	-4.63	-25.0	-18.8	
8,655.0	2.00	345.50	8,585.8	-309.7	-585.0	0.11	-0.11	-0.74	-31.4	-19.5	
8,844.0	1.80	344.10	8,774.7	-303.6	-566.7	0.11	-0.11	-0.74	-37.2	-20.3	
9,034.0	1.50	339.80	8,964.7	-288.4	-568.3	0.17	-0.16	-2.26	-41.1	-23.3	
9,224.0	1.20	313.10	9,154.8	-284.7	-570.6	0.38	-0.16	-14.05	-30.4	-40.4	
9,414.0	1.40	295.50	9,344.6	-292.4	-574.2	0.23	0.11	-9.26	-21.0	-48.3	
9,604.0	1.30	271.40	9,534.5	-291.3	-578.4	0.30	-0.05	-12.88	-3.8	-53.6	



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9,794.0	0.80	181.80	9,724.5	-292.8	-580.6	0.80	-0.28	-47.16	52.2	-8.3	
9,985.0	1.50	192.90	9,915.5	-296.4	-581.2	0.38	0.37	5.81	48.2	-16.0	
10,175.0	1.50	239.90	10,105.4	-300.0	-583.9	0.63	0.00	24.74	15.7	-42.9	
10,365.0	1.80	246.80	10,295.3	-302.3	-588.5	0.11	0.05	3.63	5.3	-44.2	
10,555.0	1.50	229.90	10,485.3	-305.0	-592.9	0.25	-0.05	-8.89	12.9	-41.5	
10,745.0	0.70	205.00	10,675.2	-307.8	-595.3	0.48	-0.42	-13.11	25.7	-33.3	
10,935.0	1.80	146.60	10,865.2	-311.2	-594.1	0.82	0.58	-30.74	38.2	3.5	
11,126.0	1.80	165.50	11,056.1	-318.3	-591.8	0.31	-0.10	9.90	31.8	-8.1	
11,316.0	1.90	157.50	11,246.0	-321.7	-589.9	0.20	0.16	-4.21	26.8	-4.0	
11,506.0	1.30	154.00	11,435.9	-326.8	-587.8	0.32	-0.32	-1.84	21.7	-2.5	
11,696.0	1.70	153.90	11,625.9	-331.0	-585.6	0.21	0.21	-0.05	16.8	-2.5	
11,889.0	1.20	134.50	11,818.8	-335.0	-582.9	0.36	-0.26	-10.05	11.8	2.3	
11,923.0	0.90	116.60	11,852.8	-335.4	-582.4	1.30	-0.88	-52.65	10.0	5.7	
12,021.0	1.50	98.00	11,950.8	-335.9	-580.4	0.72	0.61	-18.98	5.7	8.4	
12,117.0	5.10	12.80	12,046.6	-331.9	-578.3	5.41	3.75	-88.75	-12.2	5.1	
12,135.8	8.01	11.51	12,065.3	-329.8	-577.8	15.54	15.53	-6.90	-14.5	4.8	
KOP (Yarrow 32 State #704H)											
12,164.0	12.40	10.70	12,093.1	-324.9	-576.9	15.54	15.54	-2.85	-18.9	4.5	
12,212.0	18.40	11.30	12,139.2	-312.0	-574.3	14.59	14.58	1.25	-27.0	3.6	
12,257.9	25.28	12.58	12,181.6	-285.0	-570.7	12.81	12.77	2.78	-35.4	2.1	
HL Crossing, MD:12257.9, TVD:12181.6, N/S:-285.0, E/W:-570.7, INC:25.28											
12,259.0	25.40	12.60	12,182.6	-294.5	-570.8	12.81	12.78	2.16	-35.6	2.1	
12,307.0	28.80	6.10	12,225.3	-272.9	-587.1	9.55	7.29	-13.54	-43.1	-4.9	
12,354.0	32.60	4.80	12,265.7	-249.0	-564.9	8.00	7.87	-2.77	-48.3	-8.0	
12,402.0	36.50	2.10	12,305.3	-221.9	-563.2	8.73	8.12	-5.62	-51.1	-11.8	
12,449.0	38.20	359.60	12,342.6	-193.3	-562.8	4.85	3.62	-5.32	-51.0	-14.2	
12,487.0	43.60	1.00	12,378.9	-161.9	-562.6	11.41	11.25	2.92	-49.1	-13.8	



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Survey											
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12,514.9	45.73	1.81	12,391.8	-149.3	-562.3	12.31	11.89	4.50	-48.3	-13.8	
FTP (Yarrow 32 State #704H)											
12,544.0	49.20	3.00	12,411.3	-127.9	-561.4	12.31	11.93	4.10	-46.7	-14.3	
12,592.0	52.20	2.70	12,441.7	-90.8	-559.6	6.27	6.25	-0.82	-42.1	-17.0	
12,639.0	54.50	0.80	12,469.7	-53.2	-558.4	5.87	4.89	-4.04	-34.4	-19.4	
12,687.0	62.00	357.60	12,495.0	-12.4	-559.1	16.82	15.82	-6.67	-25.7	-19.6	
12,734.0	69.90	357.90	12,514.1	30.5	-560.7	16.82	16.81	0.64	-19.1	-18.0	
12,783.0	73.00	357.90	12,529.7	76.9	-562.4	6.33	6.33	0.00	-11.7	-16.5	
12,830.0	76.60	357.60	12,542.0	122.2	-564.2	7.68	7.66	-0.64	-2.6	-14.9	
12,866.0	82.40	358.80	12,548.6	157.6	-565.3	16.44	16.11	3.33	3.8	-14.0	
12,878.0	84.00	359.20	12,550.0	169.5	-565.5	13.74	13.33	3.33	5.3	-13.9	
12,925.0	91.40	0.90	12,551.9	216.4	-565.5	16.15	15.74	3.62	7.6	-14.2	
12,973.0	92.90	0.30	12,550.1	264.4	-565.0	3.37	3.12	-1.25	6.1	-15.0	
13,065.0	92.40	358.80	12,545.9	356.3	-565.7	1.72	-0.54	-1.63	2.6	-14.9	
13,160.0	90.20	359.80	12,543.7	451.2	-566.9	2.54	-2.32	1.05	1.1	-14.4	
13,255.0	88.90	0.10	12,544.4	548.2	-567.0	1.40	-1.37	0.32	2.6	-14.9	
13,350.0	89.10	359.80	12,548.1	641.2	-567.0	0.38	0.21	-0.32	5.0	-15.5	
13,445.0	89.10	359.80	12,547.8	736.2	-567.4	0.00	0.00	0.00	7.2	-15.8	
13,540.0	90.00	359.90	12,548.3	831.2	-567.6	0.95	0.95	0.11	8.7	-16.2	
13,635.0	88.90	359.60	12,549.2	926.2	-568.0	1.20	-1.16	-0.32	10.3	-16.4	
13,730.0	91.10	0.20	12,549.2	1,021.2	-568.2	2.40	2.32	0.63	11.1	-16.8	
13,826.0	92.20	1.20	12,548.5	1,117.1	-567.0	1.55	1.15	1.04	9.0	-18.6	
13,921.0	89.90	359.90	12,544.7	1,212.1	-566.1	2.78	-2.42	-1.37	8.0	-20.2	
14,016.0	90.30	359.50	12,544.6	1,307.1	-566.6	0.60	0.42	-0.42	8.6	-20.3	
14,111.0	91.10	359.00	12,543.4	1,402.1	-567.9	0.99	0.84	-0.53	8.1	-19.7	
14,146.6	90.69	358.59	12,542.9	1,437.7	-568.6	1.64	-1.16	-1.16	7.9	-19.2	
TGT 1 (Yarrow 32 State #704H)											



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14,206.0	90.00	357.90	12,542.5	1,497.0	-570.4	1.64	-1.16	-1.16	7.9	-17.6	
14,301.0	89.10	356.40	12,543.2	1,591.9	-575.2	1.84	-0.95	-1.58	9.3	-13.7	
14,396.0	92.70	357.20	12,541.8	1,686.7	-580.5	3.88	3.79	0.84	8.4	-8.0	
14,491.0	89.40	359.70	12,540.0	1,781.7	-583.0	4.36	-3.47	2.83	7.3	-7.1	
14,586.0	89.40	357.90	12,541.0	1,876.6	-585.0	1.89	0.00	-1.89	8.9	-5.7	
14,681.0	90.20	358.40	12,541.3	1,971.6	-588.1	0.99	0.84	0.53	9.9	-3.3	
14,776.0	90.00	357.90	12,541.2	2,066.5	-591.1	0.57	-0.21	-0.53	10.3	-0.8	
14,871.0	90.80	357.90	12,540.5	2,161.5	-594.6	0.84	0.84	0.00	10.3	2.0	
14,966.0	91.00	357.90	12,539.0	2,256.4	-598.1	0.21	0.21	0.00	9.4	4.9	
15,061.0	91.10	357.50	12,537.3	2,351.3	-601.9	0.43	0.11	-0.42	8.3	8.0	
15,156.0	90.30	0.40	12,538.1	2,446.3	-603.7	3.17	-0.84	3.05	7.8	9.2	
15,251.0	91.30	1.80	12,534.8	2,541.2	-601.8	1.81	1.05	1.47	7.1	6.7	
15,347.0	90.80	2.00	12,533.0	2,637.2	-598.7	0.56	-0.52	0.21	6.0	2.9	
15,441.0	90.00	1.50	12,532.4	2,731.1	-595.8	1.00	-0.85	-0.53	5.9	-0.8	
15,537.0	87.90	359.80	12,534.1	2,827.1	-594.7	2.81	-2.19	-1.77	8.3	-2.3	
15,631.0	90.50	359.90	12,535.4	2,921.1	-594.9	2.77	2.77	0.11	10.3	-2.7	
15,658.1	90.87	359.81	12,535.2	2,948.2	-595.0	0.71	0.63	-0.32	10.2	-2.8	
TGT 2 (Yarrow 32 State #704H)											
15,726.0	91.10	359.60	12,534.1	3,016.1	-595.4	0.71	0.63	-0.32	9.7	-2.9	
15,822.0	91.30	359.40	12,532.1	3,112.0	-596.2	0.29	0.21	-0.21	8.4	-2.7	
15,917.0	87.20	359.10	12,533.4	3,207.0	-597.4	4.33	-4.32	-0.32	10.5	-2.1	
16,012.0	89.80	359.20	12,535.8	3,301.9	-598.8	2.74	2.74	0.11	13.7	-1.3	
16,107.0	88.10	357.80	12,538.7	3,396.9	-601.5	1.84	-0.74	-1.68	15.4	0.7	
16,202.0	89.10	355.50	12,538.2	3,491.7	-607.2	2.21	0.00	-2.21	17.7	5.8	
16,297.0	92.70	0.10	12,538.7	3,586.8	-610.9	6.15	3.79	4.84	17.0	8.8	
16,392.0	91.40	359.80	12,533.4	3,681.5	-610.9	1.40	-1.37	-0.32	14.4	8.3	
16,487.0	94.40	0.90	12,528.5	3,776.4	-610.4	3.36	3.16	1.16	10.3	7.1	



Final PVA Report

Company: EOG Resources - Midland	Local Co-ordinate Reference: Well #704H
Project: Lea County, NM (NAD 83 NME)	TVD Reference: KB = 25 @ 3697.0usft
Site: Yarrow 32 State	MD Reference: KB = 25 @ 3697.0usft
Well: #704H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM 5000.14

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (*/100usft)	Build (*/100usft)	Turn (*/100usft)	High to Plan (usft)	Right to Plan (usft)
16,582.0	93.60	0.40	12,521.9	3,871.2	-609.3	0.99	-0.84	-0.53	4.5	5.4
16,677.0	93.50	0.70	12,516.0	3,966.0	-608.4	0.33	-0.11	0.32	-0.6	3.8
16,772.0	92.10	1.20	12,511.4	4,060.8	-608.8	1.56	-1.47	0.53	-4.5	1.8
16,867.0	89.10	2.50	12,510.4	4,155.8	-603.7	3.44	-3.16	1.37	-4.7	-2.1
16,962.0	87.90	2.70	12,512.9	4,250.8	-599.4	1.28	-1.26	0.21	-1.4	-7.0
17,057.0	88.50	2.60	12,515.9	4,345.5	-595.0	0.64	0.63	-0.11	2.3	-12.0
17,152.0	89.20	3.10	12,517.8	4,440.3	-590.3	0.91	0.74	0.53	5.0	-17.4
17,247.0	89.10	3.10	12,519.2	4,535.2	-585.2	0.11	-0.11	0.00	7.2	-23.2
17,342.0	89.80	3.00	12,520.1	4,630.1	-580.1	0.74	0.74	-0.11	8.8	-28.8
17,401.0	89.30	3.00	12,520.6	4,689.0	-577.0	0.85	-0.85	0.00	9.8	-32.3
Final MWD Survey (MD=17401.0)										
17,467.0	89.30	3.00	12,521.4	4,754.9	-573.6	0.00	0.00	0.00	11.2	-36.2
Final Projection to Bit (MD=17467.0) - PBHL (Yarrow 32 State #704H)										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,257.9	12,181.6	-295.0	-570.7	HL Crossing, MD:12257.9, TVD:12181.6, N/S:-295.0, E/W:-570.7, INC:25.26
17,401.0	12,520.6	4,689.0	-577.0	Final MWD Survey (MD=17401.0)
17,467.0	12,521.4	4,754.9	-573.6	Final Projection to Bit (MD=17467.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Yarrow 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 @ 3697.00m 3672.0
 Northing 457299.00 Easting 770683.50 Longitude 32° 15' 18.042 N 103° 35' 28.074 W

To convert a Magnetic Direction to a Grid Direction, Add 6.42°
 To convert a Magnetic Direction to a True Direction, Add 6.82° East
 To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

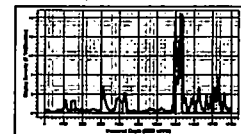
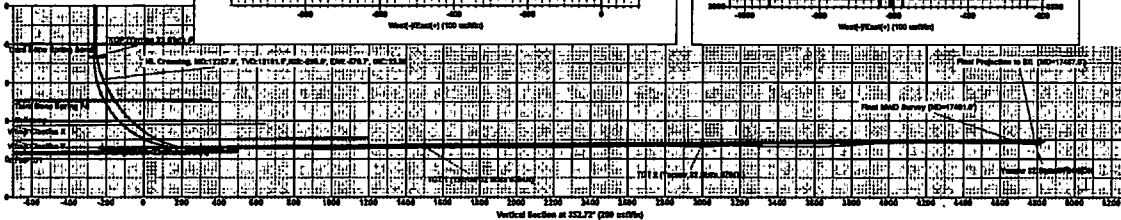
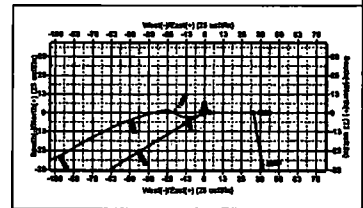
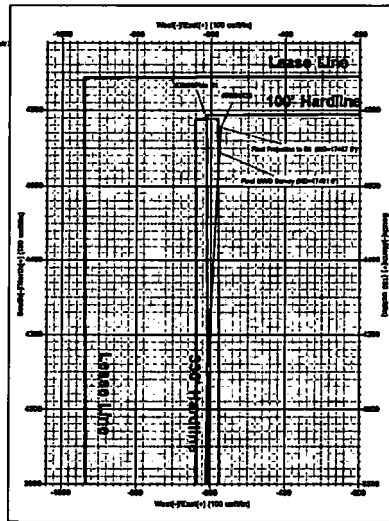
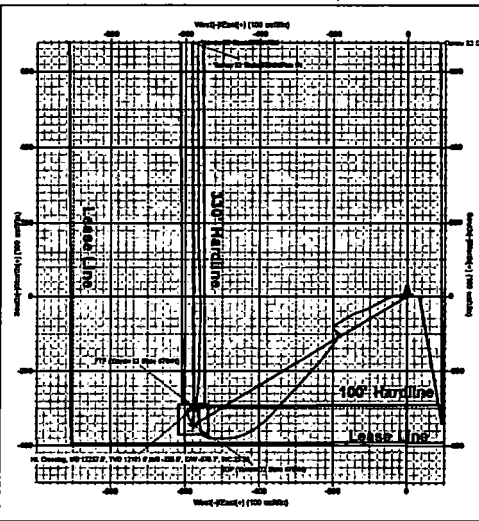
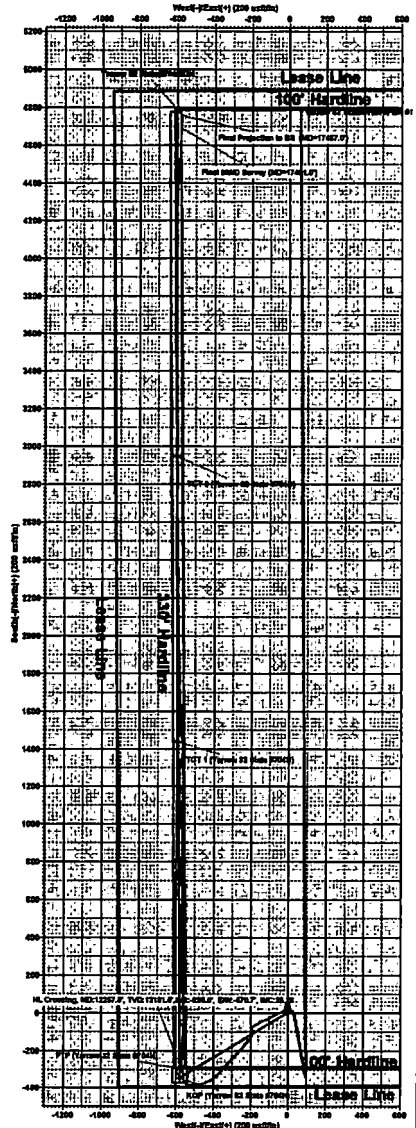
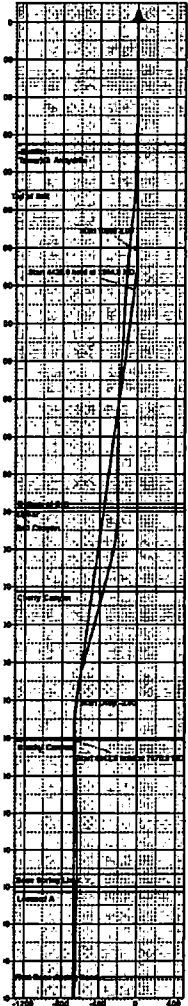
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2445.0	0.00	0.00	2445.0	0.0	0.0	0.00	0.00	0.0	
3	2844.8	8.00	239.08	2843.5	-14.3	-23.9	2.00	239.08	-11.2	
4	7270.8	8.00	239.08	7226.5	-330.7	-562.1	0.00	0.00	-258.1	
6	7670.6	0.00	0.00	7625.0	-345.0	-576.0	2.00	180.00	-269.3	
6	12113.1	0.00	0.00	12087.5	-345.0	-576.0	0.00	0.00	-269.3	KOP (Yarrow 32 State #704H)
7	12866.8	90.44	359.62	12545.0	138.1	-579.2	12.00	359.62	208.4	
8	14167.8	90.44	359.62	12535.0	1437.1	-587.8	0.00	0.00	1500.0	TGT 1 (Yarrow 32 State #704H)
9	14170.8	90.38	359.62	12535.0	1440.1	-587.8	2.00	180.00	1502.9	
9	16678.8	90.38	359.62	12525.0	2946.0	-597.8	0.00	0.00	3000.0	TGT 2 (Yarrow 32 State #704H)
1	16683.4	90.47	359.62	12525.0	2952.6	-597.9	2.00	0.00	3004.5	
2	17506.9	90.47	359.62	12510.0	4776.0	-609.9	0.00	0.00	4814.8	PBHL (Yarrow 32 State #704H)

CASING DETAILS

No casing data is available

WELLSBORE YARROW DETAILS (MDD COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Yarrow 32 State #704H)	12087.5	-345.0	-576.0	458294.00	770113.00
TGT 1 (Yarrow 32 State #704H)	12535.0	1437.1	-587.8	458758.10	770101.18
TGT 2 (Yarrow 32 State #704H)	12525.0	2946.0	-597.8	460247.00	770091.18
PBHL (Yarrow 32 State #704H)	12510.0	4776.0	-609.9	462076.00	770079.07
FTP (Yarrow 32 State #704H)	12545.0	-296.0	-576.0	457004.00	770113.00



Vertical Section at 352.72° (200 usd/m)