



HOBBS OCD
MAR 14 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Jolly Roger 16 State

#303H

OH

Design: OH

Midland PVA

10 October, 2018



10/10/2018 11:17:57AM



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #303H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3579.0usft
Site:	Jolly Roger 16 State	MD Reference:	KB = 25 @ 3579.0usft
Well:	#303H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date	10/10/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
181.0	5,216.0	Gordon MWD 22' KB + 3' (OH)	MWD	OWSG MWD - Standard	
5,285.0	15,136.0	Dritech MWD (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (")	Asd (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
181.0	0.50	84.52	181.0	0.1	0.8	0.28	0.28	0.00	0.0	0.0
334.0	0.11	286.44	334.0	0.2	1.3	0.39	-0.25	-103.32	0.0	0.0
508.0	0.65	7.86	508.0	1.2	1.3	0.37	0.31	46.79	0.0	0.0
683.0	0.53	199.42	683.0	1.4	1.2	0.67	-0.07	-98.25	0.0	0.0
857.0	1.01	0.46	857.0	2.2	0.9	0.87	0.28	82.55	0.0	0.0
1,032.0	0.44	339.28	1,032.0	4.4	0.7	0.35	-0.33	-12.10	0.0	0.0
1,162.0	0.29	33.03	1,162.0	5.1	0.7	0.27	-0.12	41.35	0.0	0.0
1,250.0	0.34	1.58	1,250.0	5.6	0.8	0.20	0.06	-35.74	0.0	0.0
1,425.0	3.29	75.38	1,424.9	7.3	5.7	1.84	1.69	42.17	0.0	0.0
1,599.0	5.27	83.29	1,598.4	9.5	18.4	1.18	1.14	4.55	0.0	0.0
1,773.0	5.82	71.08	1,771.6	13.3	34.7	0.75	0.32	-7.02	0.0	0.0
1,948.0	4.88	70.60	1,945.8	18.7	50.1	0.54	-0.54	-0.27	0.0	0.0
2,122.0	6.73	69.45	2,118.9	24.7	66.7	1.07	1.06	-0.66	0.0	0.0
2,296.0	5.82	69.16	2,291.9	31.4	84.5	0.52	-0.52	-0.17	0.0	0.0
2,471.0	5.19	72.61	2,466.0	37.0	100.3	0.41	-0.36	1.97	0.0	0.0
2,645.0	4.18	70.91	2,639.5	41.4	113.8	0.59	-0.58	-0.98	0.0	0.0
2,819.0	5.11	73.76	2,812.9	45.6	127.2	0.55	0.53	1.64	0.0	0.0
2,994.0	4.79	72.11	2,987.2	50.1	141.7	0.20	-0.18	-0.94	0.0	0.0
3,168.0	4.24	70.23	3,160.7	54.5	154.6	0.33	-0.32	-1.08	0.0	0.0
3,343.0	6.19	89.42	3,335.0	56.7	170.2	1.48	1.11	10.97	0.0	0.0



Midland PVA

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
3,517.0	6.94	89.22	3,507.8	57.0	190.1	0.43	0.43	-0.11	0.0	0.0	0.0
3,691.0	5.71	88.96	3,680.8	57.3	209.2	0.71	-0.71	-0.15	0.0	0.0	0.0
3,865.0	5.41	83.85	3,854.0	58.3	226.0	0.33	-0.17	-2.94	0.0	0.0	0.0
4,039.0	5.96	76.10	4,027.1	61.4	243.0	0.54	0.32	-4.45	0.0	0.0	0.0
4,213.0	7.20	83.08	4,200.0	64.9	262.6	0.85	0.71	4.01	0.0	0.0	0.0
4,388.0	5.94	80.67	4,373.8	67.6	282.4	0.74	-0.72	-1.38	0.0	0.0	0.0
4,562.0	5.10	84.09	4,547.0	69.9	299.0	0.52	-0.48	1.97	0.0	0.0	0.0
4,737.0	6.76	83.04	4,721.1	71.9	316.9	0.95	0.95	-0.60	0.0	0.0	0.0
4,911.0	6.01	88.00	4,894.0	73.5	336.2	0.53	-0.43	2.85	0.0	0.0	0.0
5,086.0	6.33	96.67	5,068.0	72.7	354.9	0.56	0.18	4.95	0.0	0.0	0.0
5,216.0	5.79	72.41	5,197.3	73.9	368.3	2.00	-0.42	-18.66	0.0	0.0	0.0
5,285.0	5.30	71.30	5,265.9	75.9	374.6	0.73	-0.71	-1.61	0.8	0.7	0.7
5,380.0	5.40	83.30	5,360.5	77.9	383.2	1.18	0.11	12.63	3.2	1.1	1.1
5,569.0	6.20	86.80	5,548.6	79.5	402.3	0.46	0.42	1.85	6.1	-0.7	-0.7
5,757.0	6.30	84.00	5,735.4	81.1	422.7	0.17	0.05	-1.49	7.5	-2.0	-2.0
5,946.0	8.40	79.20	5,922.9	84.8	446.5	1.16	1.11	-2.54	5.4	-1.4	-1.4
6,135.0	9.10	75.50	6,109.7	91.1	474.6	0.48	0.37	-1.96	-1.5	0.3	0.3
6,324.0	6.10	70.10	6,297.0	98.3	498.5	1.63	-1.59	-2.86	-4.9	3.0	3.0
6,512.0	5.70	69.70	6,484.0	104.9	516.6	0.21	-0.21	-0.21	-2.8	7.2	7.2
6,701.0	6.60	80.80	6,671.9	109.9	536.2	0.79	0.48	5.87	0.5	9.6	9.6
6,890.0	6.40	75.50	6,859.7	114.3	557.1	0.33	-0.11	-2.80	0.2	10.8	10.8
7,079.0	5.60	74.70	7,047.7	119.3	576.2	0.43	-0.42	-0.42	2.1	13.2	13.2
7,174.0	5.50	85.70	7,142.2	120.9	585.2	1.12	-0.11	11.58	6.5	12.6	12.6
7,362.0	5.30	84.30	7,329.4	122.5	602.8	0.13	-0.11	-0.74	9.6	11.4	11.4
7,551.0	3.40	76.80	7,517.8	124.6	616.9	1.05	-1.01	-3.97	5.3	12.3	12.3
7,646.0	1.80	59.50	7,612.7	126.0	621.0	1.86	-1.68	-18.21	-1.8	12.9	12.9
7,834.0	1.80	59.00	7,800.6	129.0	626.0	0.01	0.00	-0.27	-7.8	12.9	12.9



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8,023.0	1.50	48.40	7,989.6	132.2	630.4	0.23	-0.16	-5.61	-15.4	10.7	
8,212.0	1.30	28.90	8,178.5	135.7	633.3	0.27	-0.11	-10.32	-22.5	4.1	
8,401.0	1.50	0.00	8,367.5	140.1	634.4	0.38	0.11	-15.29	-26.1	-8.4	
8,589.0	1.50	335.10	8,555.4	144.8	633.3	0.34	0.00	-13.24	-24.8	-19.6	
8,778.0	1.90	314.10	8,744.3	149.2	630.0	0.39	0.21	-11.11	-21.6	-28.1	
8,966.0	1.50	303.90	8,932.2	152.7	625.8	0.27	-0.21	-5.43	-21.8	-32.0	
9,155.0	1.70	243.30	9,121.2	152.8	621.2	0.86	0.11	-32.06	13.2	-36.9	
9,344.0	1.90	236.50	9,310.1	149.8	616.1	0.15	0.11	-3.60	11.5	-35.4	
9,533.0	2.30	232.10	9,498.9	145.8	610.5	0.23	0.21	-2.33	7.3	-34.6	
9,589.0	2.60	236.40	9,554.9	144.4	608.5	0.83	0.54	7.68	2.3	-35.0	
9,610.0	2.68	227.95	9,575.9	143.8	607.8	1.90	0.40	-40.24	6.4	-34.3	
KOP 9610.0' MD; 9575.9' TVD; 143.8°; 607.8°; 2.68											
9,670.0	3.20	208.00	9,635.8	141.4	605.9	1.90	0.86	-33.25	14.7	-30.6	
9,764.0	9.60	179.30	9,729.2	131.2	604.8	7.41	6.81	-30.53	21.0	-21.0	
9,858.0	18.00	171.80	9,820.4	109.0	607.0	9.12	8.94	-7.98	20.7	-16.3	
9,950.0	26.80	179.30	9,905.4	74.1	609.3	10.04	9.57	8.15	19.5	-16.5	
9,971.8	28.19	178.62	9,924.7	64.0	609.4	6.54	6.37	-3.13	20.4	-16.1	
FTP Crossing 9971.8' MD; 9924.7' TVD; 64.0°; 609.4°; 28.19											
9,997.0	29.80	177.90	9,946.8	51.8	609.8	6.54	6.39	-2.84	21.9	-15.4	
10,045.0	30.20	176.90	9,988.3	27.8	610.9	1.33	0.83	-2.08	27.4	-13.9	
10,140.0	37.60	173.30	10,067.1	-24.9	615.6	8.07	7.79	-3.79	44.9	-6.9	
10,171.0	44.80	174.70	10,090.4	-45.2	617.7	23.41	23.23	4.52	50.1	-5.3	
10,202.0	52.20	177.60	10,111.0	-68.3	619.2	24.87	23.87	9.35	53.1	-5.3	
10,234.0	59.30	178.90	10,129.0	-94.7	620.0	22.44	22.19	4.06	54.3	-5.2	
10,265.0	65.90	182.00	10,143.2	-122.3	619.8	23.06	21.29	10.00	53.4	-6.8	
10,297.0	71.60	179.50	10,154.8	-152.1	619.4	19.24	17.81	-7.81	51.3	-6.1	
10,328.0	78.80	178.50	10,162.7	-182.0	619.9	23.43	23.23	-3.23	47.5	-5.3	



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10,424.0	89.80	178.00	10,172.3	-277.3	622.8	11.47	11.46	-0.52	31.9	-2.5	
10,518.0	90.70	176.50	10,171.9	-371.2	627.4	1.86	0.98	-1.60	24.0	2.0	
10,612.0	91.10	177.20	10,170.4	-465.1	632.5	0.86	0.43	0.74	21.4	7.2	
10,707.0	90.50	177.90	10,169.1	-560.0	636.6	0.97	-0.63	0.74	18.8	11.4	
10,801.0	93.10	178.30	10,166.1	-653.9	639.7	2.80	2.77	0.43	14.6	14.6	
10,896.0	93.90	178.30	10,160.3	-748.6	642.5	0.84	0.84	0.00	7.6	17.5	
10,990.0	92.20	179.70	10,155.3	-842.5	644.1	2.34	-1.81	1.49	1.4	19.3	
11,084.0	90.70	182.00	10,152.9	-936.4	642.8	2.92	-1.60	2.45	-2.2	18.0	
11,178.0	90.90	182.10	10,151.6	-1,030.4	639.4	0.24	0.21	0.11	-4.2	13.9	
11,273.0	89.90	180.80	10,150.9	-1,125.3	637.0	1.73	-1.05	-1.37	-5.5	10.7	
11,367.0	89.30	180.50	10,151.6	-1,219.3	635.9	0.71	-0.64	-0.32	-5.5	8.8	
11,462.0	89.00	180.10	10,153.0	-1,314.3	635.4	0.53	-0.32	-0.42	-4.7	7.5	
11,556.0	90.00	179.40	10,153.8	-1,408.3	635.8	1.30	1.08	-0.74	-4.6	7.1	
11,650.0	90.70	178.10	10,153.3	-1,502.3	637.9	1.57	0.74	-1.38	-5.8	8.4	
11,744.0	92.20	176.90	10,150.9	-1,596.2	642.0	2.04	1.60	-1.28	-8.8	11.7	
11,839.0	92.10	176.80	10,147.3	-1,691.0	647.2	0.15	-0.11	-0.11	-13.0	16.1	
11,933.0	91.60	176.90	10,144.3	-1,784.8	652.4	0.54	-0.53	0.11	-16.7	20.4	
12,027.0	91.50	177.20	10,141.7	-1,878.6	657.2	0.34	-0.11	0.32	-19.9	24.5	
12,122.0	91.40	180.50	10,139.3	-1,973.5	659.1	3.47	-0.11	3.47	-22.8	25.6	
12,216.0	91.00	180.50	10,137.4	-2,067.5	658.3	0.43	-0.43	0.00	-25.1	24.0	
12,311.0	90.50	181.00	10,136.1	-2,162.5	657.0	0.74	-0.53	0.53	-26.6	21.9	
12,405.0	90.00	181.50	10,135.7	-2,256.5	655.0	0.75	-0.53	0.53	-27.3	19.1	
12,499.0	89.80	181.90	10,135.9	-2,350.4	652.2	0.48	-0.21	0.43	-27.4	15.5	
12,593.0	89.70	182.10	10,136.3	-2,444.4	648.9	0.24	-0.11	0.21	-27.3	11.4	
12,688.0	89.20	182.70	10,137.2	-2,539.3	644.9	0.82	-0.53	0.63	-26.6	6.6	
12,782.0	87.50	181.40	10,139.9	-2,633.2	641.6	2.28	-1.81	-1.38	-24.2	2.5	
12,877.0	86.90	180.00	10,142.9	-2,728.1	640.4	2.08	1.47	-1.47	-21.5	0.5	



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12,971.0	89.40	178.30	10,144.3	-2,822.1	641.8	1.88	0.53	-1.81	-20.4		1.1
13,065.0	88.70	178.00	10,145.8	-2,916.0	644.8	0.81	-0.74	-0.32	-19.1		3.4
13,160.0	90.60	177.50	10,146.4	-3,011.0	648.6	2.07	2.00	-0.53	-19.0		6.3
13,254.0	90.30	176.90	10,145.7	-3,104.8	653.2	0.71	-0.32	-0.64	-20.4		10.1
13,348.0	90.70	178.10	10,144.9	-3,198.7	657.3	1.35	0.43	1.28	-21.9		13.4
13,443.0	89.50	177.80	10,144.7	-3,293.7	660.7	1.30	-1.26	-0.32	-22.7		16.0
13,537.0	90.50	178.60	10,144.7	-3,387.8	663.6	1.36	1.06	0.85	-23.4		18.2
13,631.0	90.50	179.00	10,143.9	-3,481.6	665.6	0.43	0.00	0.43	-24.9		19.4
13,725.0	90.00	178.60	10,143.5	-3,575.6	667.6	0.68	-0.53	-0.43	-25.9		20.6
13,820.0	89.20	178.30	10,144.1	-3,670.5	670.1	0.90	-0.84	-0.32	-25.9		22.3
13,914.0	89.30	177.50	10,145.4	-3,764.5	673.6	0.86	0.11	-0.85	-25.4		25.0
14,008.0	90.50	177.40	10,145.5	-3,858.4	677.8	1.28	1.28	-0.11	-25.9		28.4
14,103.0	90.80	177.00	10,144.4	-3,953.3	682.4	0.53	0.32	-0.42	-27.6		32.2
14,197.0	90.20	178.60	10,143.6	-4,047.2	686.0	1.82	-0.64	1.70	-29.5		35.0
14,292.0	89.30	178.50	10,144.0	-4,142.2	688.4	0.95	-0.95	-0.11	-30.1		36.6
14,386.0	87.10	179.00	10,147.0	-4,236.1	690.5	2.40	-2.34	0.53	-28.3		37.9
14,481.0	88.40	179.40	10,150.7	-4,331.0	691.8	1.43	1.37	0.42	-25.6		38.4
14,575.0	90.00	180.50	10,152.0	-4,425.0	691.9	2.07	1.70	1.17	-25.4		37.7
14,670.0	89.00	181.00	10,152.9	-4,520.0	690.6	1.18	-1.05	0.53	-25.6		35.7
14,764.0	89.00	181.10	10,154.5	-4,613.9	688.9	0.11	0.00	0.11	-25.0		33.2
14,858.0	88.10	180.50	10,156.8	-4,707.9	687.6	1.15	-0.98	-0.64	-23.7		31.1
14,953.0	88.40	180.60	10,159.8	-4,802.8	686.7	0.33	0.32	0.11	-21.9		29.4
15,047.0	88.20	180.60	10,162.6	-4,896.8	685.7	0.21	-0.21	0.00	-20.2		27.6
15,075.0	88.00	180.60	10,163.5	-4,924.8	685.4	0.71	-0.71	0.00	-19.6		27.1
Last MWD Survey (MD = 15075.0)											
15,136.0	88.00	180.60	10,165.6	-4,985.7	684.8	0.00	0.00	0.00	-18.2		25.9
Projection to Bit (MD = 15136.0)											



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Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #303H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3579.0usft
Site:	Jolly Roger 16 State	MD Reference:	KB = 25 @ 3579.0usft
Well:	#303H	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)	
9,610.0	9,575.9	143.8	607.8	KOP 9610.0' MD; 9575.9' TVD; 143.8'; 607.8'; 2.68
9,971.8	9,924.7	64.0	609.4	FTP Crossing 9971.8' MD; 9924.7' TVD; 64.0'; 609.4'; 28.19
15,075.0	10,163.5	-4,924.8	685.4	Last MWD Survey (MD = 15075.0)
15,136.0	10,165.6	-4,985.7	684.8	Projection to Bit (MD = 15136.0)

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

Jolly Roger 16 State #303H

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: #303H

KB = 25 @ 3579.0usft
Northing 448415.00 Easting 805845.00 Latitude 32° 13' 27.757 N Longitude 103° 28' 40.709 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	5218.0	5.79	72.41	5197.3	73.9	368.3	0.00	0.00	-25.1	
2	5281.1	6.67	81.26	5262.0	75.4	375.2	2.00	51.64	-25.8	
3	7297.9	6.67	81.26	7265.1	111.0	806.8	0.00	0.00	-30.9	
4	7631.5	0.00	0.00	7598.0	114.0	826.0	2.00	180.00	-31.3	Brushy Top (Jolly Rogers 16 State #303H)
5	9703.7	0.00	0.00	9670.2	114.0	826.0	0.00	0.00	-31.3	
6	10447.6	89.26	180.07	10147.6	-357.3	625.4	12.00	180.07	435.9	
7	11016.7	89.26	180.07	10155.0	-926.4	624.7	0.00	1000.0		TGT #1(Jolly Rogers 16 State #303H)
8	11049.7	89.61	179.51	10155.3	-959.4	624.9	2.00	-57.98	1032.8	
9	12024.3	89.61	179.51	10162.0	-1933.9	633.2	0.00	0.00	2000.0	TGT #2(Jolly Rogers 16 State #303H)
10	12035.4	89.83	179.52	10162.1	-1945.1	633.3	2.00	2.37	2011.1	
11	13031.8	89.83	179.52	10165.0	-2941.4	641.7	0.00	3000.0		TGT#3(Jolly Rogers 16 State #303H)
12	13043.3	89.60	179.52	10165.1	-2952.9	641.6	2.00	-179.99	3011.4	
13	14039.4	89.60	179.52	10172.0	-3948.9	650.1	0.00	0.00	4000.0	TGT#4(Jolly Rogers 16 State #303H)
14	14052.1	89.35	179.52	10172.1	-3961.6	650.2	2.00	180.00	4012.6	
15	15094.6	89.35	179.52	10184.0	-5004.0	659.0	0.00	0.00	5047.2	PBHL (Jolly Rogers 16 State #303H)

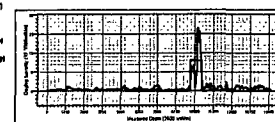
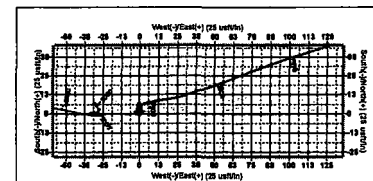
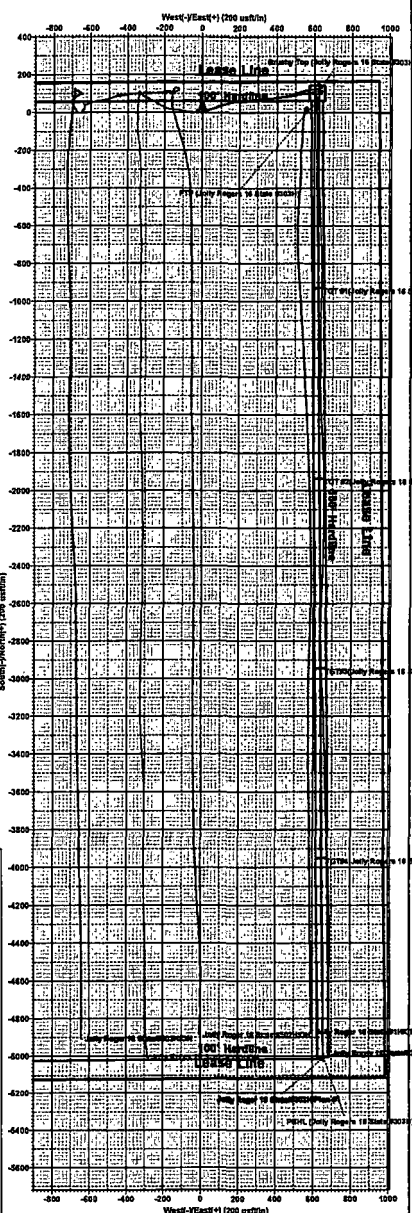
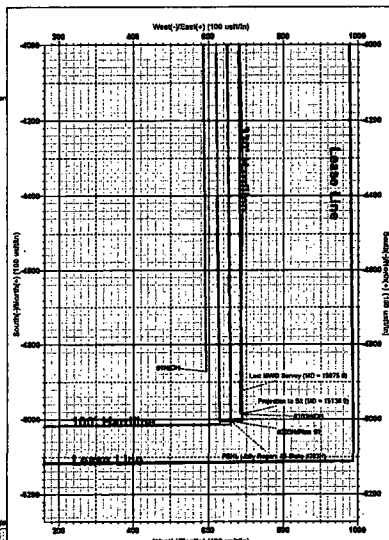
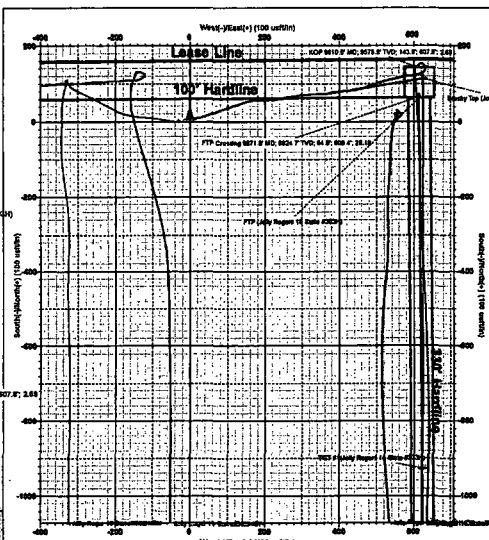
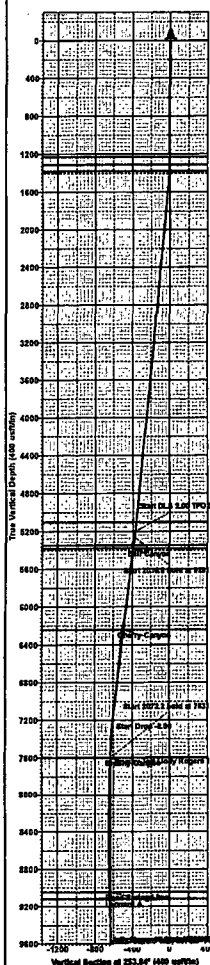
To convert a Magnetic Direction to a Grid Direction, Add 6.33°
To convert a Magnetic Direction to a True Direction, Add 6.78° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

CASING DETAILS

No casing data is available

WELLSITE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top (Jolly Rogers 16 State #303H)	7388.0	114.0	628.0	448539.00	806471.00
TGT #1(Jolly Rogers 16 State #303H)	10155.0	-926.4	624.7	445488.60	806463.74
TGT #2(Jolly Rogers 16 State #303H)	10162.0	-1933.9	633.2	444481.10	806476.21
TGT#3(Jolly Rogers 16 State #303H)	10165.0	-2941.4	641.7	443473.50	806466.67
TGT#4(Jolly Rogers 16 State #303H)	10172.0	-3948.9	650.1	442468.10	806455.14
PBHL (Jolly Rogers 16 State #303H)	10184.0	-5004.0	659.0	441411.00	806504.00
FTP (Jolly Rogers 16 State #303H)	12035.0	64.0	616.0	446479.00	806481.00



11.16.2019