RyanUSA
Example Survey Report

Company:	Chesapeake Operating Inc.	**Date:** 7/13/2000 **Time:** 15:23:06 **Page:** 1	
Field:	Lea County	**Co-ordinate(NE) Reference:**	Well: Boyce 15-3, Grid North
Site:	Boyce 15-3	**Vertical (TVD) Reference:**	SITE 4003.0 above Mean Sea Level
Well:	Boyce 15-3	**Section (VS) Reference:**	Well (0.0E,0.0N,225.7Azi)
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature

Survey History for Definitive Wellpath

Date: 7/13/2000 **Validated:** NO **Version:** 0.0

From ft	To ft	Survey	Tool
0.0	7404.0	#1 Sperry Sun Gyro	LRG
9955.0	11800.0	#2 Ryan MWD	MWD

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	TIE LINE
444.0	0.25	34.00	444.0	0.8	0.5	-0.9	0.06	0.06	0.00	LRG
900.0	0.50	34.00	900.0	3.3	2.2	-3.9	0.05	0.05	0.00	LRG
1900.0	0.25	144.00	1900.0	5.1	5.9	-7.8	0.06	-0.02	11.00	LRG
2656.0	0.50	344.00	2656.0	7.0	6.0	-9.2	0.10	0.03	-21.16	LRG
3266.0	0.50	69.00	3266.0	10.5	7.7	-12.9	0.11	0.00	13.93	LRG
3996.0	4.50	114.00	3995.1	0.0	36.9	-26.4	0.57	0.55	6.16	LRG
4104.0	3.75	114.00	4102.9	-3.2	44.0	-29.3	0.69	-0.69	0.00	LRG
4200.0	2.99	117.77	4198.7	-5.6	49.1	-31.2	0.82	-0.79	3.93	LRG
4295.0	2.25	124.00	4293.6	-7.8	52.8	-32.4	0.83	-0.78	6.56	LRG
4725.0	0.50	169.00	4723.5	-14.4	60.2	-33.0	0.45	-0.41	10.47	LRG
5264.0	0.50	159.00	5262.4	-18.9	61.5	-30.8	0.02	0.00	-1.86	LRG
5678.0	1.50	204.00	5676.4	-25.5	59.9	-25.1	0.29	0.24	10.87	LRG
6140.0	1.75	209.00	6138.2	-37.2	54.0	-12.7	0.06	0.05	1.08	LRG
6601.0	1.75	174.00	6599.0	-50.4	51.3	-1.6	0.23	0.00	-7.59	LRG
7111.0	1.75	219.00	7108.8	-64.2	47.3	10.9	0.26	0.00	8.82	LRG
7404.0	2.75	229.00	7401.5	-72.3	39.1	22.4	0.37	0.34	3.41	LRG
9955.0	3.00	229.00	9949.3	-156.2	-57.4	150.1	0.01	0.01	0.00	MWD
10036.0	3.40	222.50	10030.2	-159.4	-60.6	154.7	0.67	0.49	-8.02	MWD
10130.0	1.50	210.50	10124.1	-162.5	-63.2	158.6	2.08	-2.02	-12.77	MWD
10225.0	1.00	289.30	10219.1	-163.3	-64.6	160.2	1.72	-0.53	82.95	MWD
10317.0	2.50	337.80	10311.0	-161.2	-66.1	159.8	2.16	1.63	52.72	MWD
10408.0	4.60	352.20	10401.9	-155.7	-67.3	156.9	2.49	2.31	15.82	MWD
10503.0	6.00	1.40	10496.5	-147.0	-67.7	151.1	1.72	1.47	9.68	MWD
10597.0	7.00	22.10	10589.9	-136.8	-65.5	142.3	2.69	1.06	22.02	MWD
10691.0	7.70	21.80	10683.1	-125.6	-61.0	131.3	0.75	0.74	-0.32	MWD
10786.0	5.40	20.00	10777.5	-115.5	-57.1	121.5	2.43	-2.42	-1.89	MWD
10881.0	5.60	15.80	10872.0	-106.8	-54.3	113.4	0.47	0.21	-4.42	MWD
10975.0	6.90	1.70	10965.5	-96.8	-52.9	105.4	2.13	1.38	-15.00	MWD
11070.0	6.50	354.30	11059.8	-85.7	-53.2	97.9	1.00	-0.42	-7.79	MWD
11163.0	6.20	341.00	11152.3	-75.7	-55.4	92.5	1.61	-0.32	-14.30	MWD
11257.0	4.20	331.10	11245.9	-67.9	-58.7	89.4	2.32	-2.13	-10.53	MWD
11352.0	2.70	284.40	11340.7	-64.3	-62.5	89.7	3.22	-1.58	-49.16	MWD
11445.0	4.20	251.70	11433.6	-64.8	-67.9	93.9	2.60	1.61	-35.16	MWD
11533.0	6.20	235.90	11521.2	-68.5	-74.9	101.5	2.77	2.27	-17.95	MWD
11659.0	9.50	219.30	11646.0	-80.4	-87.1	118.5	3.15	2.62	-13.17	MWD
11722.0	10.20	217.90	11708.1	-88.8	-93.8	129.2	1.17	1.11	-2.22	MWD
11800.0	10.20	217.90	11784.9	-99.7	-102.3	142.9	0.00	0.00	0.00	MWD