



EC 5 2011
 GEOLOGICAL SURVEY
 MORCANTOWN, WV

Ryan Energy Technologies
Survey Report



Company: Chesapeake Operating, Inc.	Date: 7/6/2010	Time: 13:33:45	Page: 1
Field: Wetzel Co, WV	Co-ordinate(NE) Reference: Site: Saber 3H, Grid North		
Site: Saber 3H	Vertical (TVD) Reference: Est RKB 1339.0		
Well: Well # 3H	Section (VS) Reference: Well (0.00N,0.00E,313.00Azi)		
Wellpath: 3H	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: Wetzel Co, WV		
Map System: US State Plane Coordinate System 1927	Map Zone: West Virginia, Northern Zone	
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre	
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010	

Site: Saber 3H				
	Wetzel Co, WV			
Site Position:	From: Map	Northing: 441027.00 ft	Latitude: 39 42 17.392 N	
Position Uncertainty: 0.00 ft		Easting: 1666512.00 ft	Longitude: 80 41 7.154 W	
Ground Level: 1320.00 ft			North Reference: Grid	
			Grid Convergence: -0.76 deg	

Well: Well # 3H		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 441027.00 ft	Latitude: 39 42 17.392 N	
Position Uncertainty: 0.00 ft	Easting: 1666512.00 ft	Longitude: 80 41 7.154 W	

Wellpath: 3H		Drilled From: Surface	
Current Datum: Est RKB	Height: 1339.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 3/2/2010		Above System Datum: Mean Sea Level	
Field Strength: 53025 nT		Declination: -8.47 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 67.53 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	313.00

Survey Program for Definitive Wellpath				Version: 1
Date: 7/6/2010	Validated: No	Toolcode	Tool Name	
Actual From ft	To ft	Survey		
100.00	5860.00	Survey #1 (100.00-5860.00)	Other MWD	Other MWD
5930.00	12209.00	Survey #2 (5930.00-12209.00)	Ryan MWD	Ryan MWD
12266.00	12266.00	Survey #3 (12266.00-12266.00)	Projection	Projection

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
100.00	0.36	25.51	100.00	0.28	0.14	0.09	0.36	0.36	0.00	Other MWD
200.00	0.36	3.38	200.00	0.88	0.29	0.39	0.14	0.00	-22.13	Other MWD
300.00	0.28	93.66	300.00	1.18	0.55	0.40	0.46	-0.08	90.28	Other MWD
400.00	0.25	253.89	400.00	1.10	0.59	0.32	0.52	-0.03	160.23	Other MWD
500.00	0.19	78.25	500.00	1.08	0.54	0.34	0.44	-0.06	-175.64	Other MWD
600.00	0.34	15.99	599.99	1.39	0.78	0.38	0.30	0.15	-62.26	Other MWD
700.00	0.33	262.19	699.99	1.64	0.58	0.70	0.56	-0.01	-113.80	Other MWD
800.00	0.29	88.36	799.99	1.61	0.55	0.70	0.62	-0.04	-173.83	Other MWD
900.00	0.30	258.94	899.99	1.57	0.54	0.67	0.59	0.01	170.58	Other MWD
1000.00	0.32	16.50	999.99	1.78	0.37	0.95	0.53	0.02	117.56	Other MWD
1100.00	0.28	177.62	1099.99	1.81	0.45	0.90	0.59	-0.04	161.12	Other MWD
1200.00	0.34	0.93	1199.99	1.86	0.47	0.92	0.62	0.06	-176.69	Other MWD
1300.00	0.30	147.48	1299.99	1.94	0.62	0.87	0.61	-0.04	146.55	Other MWD
1400.00	0.37	328.67	1399.99	1.99	0.59	0.93	0.67	0.07	-178.81	Other MWD
1500.00	0.35	181.19	1499.99	1.96	0.41	1.03	0.69	-0.02	-147.48	Other MWD
1600.00	0.35	315.41	1599.99	1.87	0.19	1.14	0.64	0.00	134.22	Other MWD
1700.00	0.33	169.91	1699.99	1.81	0.03	1.21	0.65	-0.02	-145.50	Other MWD
1800.00	0.31	344.58	1799.99	1.78	0.01	1.21	0.64	-0.02	174.67	Other MWD
1900.00	0.55	253.22	1899.99	1.91	-0.52	1.68	0.64	0.24	-91.36	Other MWD
2000.00	0.41	218.91	1999.98	1.49	-1.21	1.90	0.31	-0.14	-34.31	Other MWD

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WV GEOLOGICAL SURVEY

MORGANTOWN, WV

Company: Chesapeake Operating, Inc.	Date: 7/6/2010	Time: 13:33:45	Page: 2
Field: Wetzell Co, WV	Co-ordinate(NE) Reference: Site: Saber 3H, Grid North		
Site: Saber 3H	Vertical (TVD) Reference: Est RKB 1339.0		
Well: Well # 3H	Section (VS) Reference: Well (0.00N,0.00E,313.00Azi)		
Wellpath: 3H	Survey Calculation Method: Minimum Curvature	Db: Sybase	

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/Comment
2100.00	0.27	301.09	2099.98	1.33	-1.63	2.10	0.46	-0.14	82.18	Other MWD
2200.00	0.81	320.93	2199.98	2.00	-2.28	3.04	0.56	0.54	19.84	Other MWD
2300.00	0.77	276.91	2299.97	2.63	-3.39	4.28	0.59	-0.04	-44.02	Other MWD
2400.00	0.37	354.90	2399.96	3.04	-4.09	5.06	0.78	-0.40	77.99	Other MWD
2500.00	0.66	308.58	2499.96	3.72	-4.57	5.88	0.48	0.29	-46.32	Other MWD
2597.00	0.82	301.85	2596.95	4.43	-5.60	7.11	0.19	0.16	-6.94	Other MWD
2707.00	0.30	250.90	2706.95	4.75	-6.54	8.02	0.61	-0.47	-46.32	Other MWD
2738.00	0.30	296.40	2737.95	4.76	-6.69	8.14	0.75	0.00	146.77	Other MWD
2769.00	0.30	315.10	2768.95	4.86	-6.82	8.30	0.31	0.00	60.32	Other MWD
2861.00	0.50	300.80	2860.94	5.23	-7.33	8.93	0.24	0.22	-15.54	Other MWD
2953.00	0.20	278.90	2952.94	5.46	-7.83	9.45	0.35	-0.33	-23.80	Other MWD
2984.00	0.20	241.80	2983.94	5.44	-7.94	9.52	0.41	0.00	-119.68	Other MWD
3015.00	0.40	154.10	3014.94	5.32	-7.94	9.43	1.42	0.65	-282.90	Other MWD
3046.00	1.10	134.30	3045.94	5.02	-7.68	9.03	2.37	2.26	-63.87	Other MWD
3077.00	1.80	134.50	3076.93	4.47	-7.12	8.25	2.26	2.26	0.65	Other MWD
3108.00	2.50	137.00	3107.91	3.63	-6.31	7.09	2.28	2.26	8.06	Other MWD
3139.00	3.30	132.30	3138.87	2.54	-5.19	5.52	2.69	2.58	-15.16	Other MWD
3170.00	3.50	135.60	3169.81	1.26	-3.86	3.69	0.90	0.65	10.65	Other MWD
3200.00	4.10	130.90	3199.75	-0.10	-2.41	1.70	2.25	2.00	-15.67	Other MWD
3231.00	4.40	135.00	3230.66	-1.66	-0.73	-0.60	1.38	0.97	13.23	Other MWD
3262.00	4.80	137.10	3261.56	-3.45	0.99	-3.08	1.40	1.29	6.77	Other MWD
3293.00	5.20	138.70	3292.44	-5.46	2.80	-5.77	1.37	1.29	5.16	Other MWD
3324.00	5.80	138.70	3323.30	-7.69	4.76	-8.73	1.94	1.94	0.00	Other MWD
3355.00	6.20	139.30	3354.13	-10.14	6.89	-11.95	1.31	1.29	1.94	Other MWD
3386.00	6.60	137.60	3384.94	-12.72	9.18	-15.39	1.43	1.29	-5.48	Other MWD
3416.00	7.10	135.80	3414.72	-15.32	11.63	-18.96	1.81	1.67	-6.00	Other MWD
3462.00	7.60	136.50	3460.34	-19.57	15.71	-24.84	1.10	1.09	1.52	Other MWD
3509.00	8.50	141.00	3506.88	-24.52	20.04	-31.38	2.34	1.91	9.57	Other MWD
3541.00	9.00	140.10	3538.51	-28.28	23.13	-36.20	1.62	1.56	-2.81	Other MWD
3572.00	9.50	140.90	3569.11	-32.13	26.30	-41.14	1.67	1.61	2.58	Other MWD
3603.00	9.70	136.60	3599.67	-36.01	29.71	-46.28	2.40	0.65	-13.87	Other MWD
3634.00	9.60	138.70	3630.23	-39.85	33.21	-51.46	1.18	-0.32	6.77	Other MWD
3665.00	9.90	137.90	3660.79	-43.77	36.70	-56.69	1.06	0.97	-2.58	Other MWD
3696.00	9.80	136.50	3691.33	-47.66	40.30	-61.98	0.84	-0.32	-4.52	Other MWD
3727.00	9.80	137.40	3721.88	-51.52	43.90	-67.24	0.49	0.00	2.90	Other MWD
3758.00	9.80	137.10	3752.42	-55.39	47.49	-72.50	0.16	0.00	-0.97	Other MWD
3789.00	9.90	135.70	3782.97	-59.23	51.14	-77.80	0.84	0.32	-4.52	Other MWD
3820.00	9.50	138.00	3813.52	-63.04	54.72	-83.01	1.80	-1.29	7.42	Other MWD
3851.00	9.80	139.30	3844.08	-66.94	58.15	-88.18	1.20	0.97	4.19	Other MWD
3882.00	10.10	139.60	3874.62	-71.01	61.63	-93.50	0.98	0.97	0.97	Other MWD
3913.00	10.00	136.70	3905.14	-75.04	65.24	-98.89	1.66	-0.32	-9.35	Other MWD
3940.00	9.70	136.80	3931.74	-78.40	68.40	-103.50	1.11	-1.11	0.37	Other MWD
3971.00	9.50	138.60	3962.31	-82.23	71.88	-108.65	1.16	-0.65	5.81	Other MWD
4002.00	9.90	140.00	3992.87	-86.19	75.29	-113.84	1.50	1.29	4.52	Other MWD
4033.00	10.30	139.80	4023.39	-90.34	78.79	-119.24	1.30	1.29	-0.65	Other MWD
4064.00	10.20	140.00	4053.89	-94.56	82.34	-124.71	0.34	-0.32	0.65	Other MWD
4095.00	10.10	140.30	4084.41	-98.76	85.84	-130.13	0.36	-0.32	0.97	Other MWD
4126.00	9.90	142.10	4114.94	-102.95	89.22	-135.46	1.20	-0.65	5.81	Other MWD
4157.00	10.00	141.70	4145.47	-107.17	92.52	-140.75	0.39	0.32	-1.29	Other MWD
4188.00	9.70	137.70	4176.01	-111.21	95.95	-146.02	2.41	-0.97	-12.90	Other MWD
4219.00	9.80	138.60	4206.57	-115.12	99.45	-151.24	0.59	0.32	2.90	Other MWD
4250.00	9.70	138.50	4237.12	-119.06	102.92	-156.47	0.33	-0.32	-0.32	Other MWD
4281.00	9.80	139.30	4267.67	-123.01	106.38	-161.69	0.54	0.32	2.58	Other MWD
4312.00	9.90	138.50	4298.21	-127.01	109.86	-166.97	0.55	0.32	-2.58	Other MWD



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Company: Chesapeake Operating, Inc.	Date: 7/6/2010	Time: 13:33:45	Page: 3
Field: Wetzell Co, WV	Co-ordinate(NE) Reference:	Site: Saber 3H, Grid North	
Site: Saber 3H	Vertical (TVD) Reference:	Est RKB 1339.0	
Well: Well # 3H	Section (VS) Reference:	Well (0.00N,0.00E,313.00Azi)	
Wellpath: 3H	Survey Calculation Method:	Minimum Curvature	Db: Sybase

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/Comment
4343.00	9.60	141.00	4328.77	-131.01	113.25	-172.18	1.67	-0.97	8.06	Other MWD
4437.00	10.50	142.50	4421.32	-143.90	123.40	-188.39	1.00	0.96	1.60	Other MWD
4529.00	10.80	141.80	4511.74	-157.32	133.83	-205.18	0.36	0.33	-0.76	Other MWD
4623.00	11.10	136.40	4604.03	-170.80	145.52	-222.91	1.14	0.32	-5.74	Other MWD
4716.00	9.90	139.20	4695.47	-183.33	156.92	-239.80	1.40	-1.29	3.01	Other MWD
4747.00	9.80	140.40	4726.01	-187.38	160.34	-245.06	0.74	-0.32	3.87	Other MWD
4809.00	10.00	139.40	4787.09	-195.54	167.21	-255.64	0.43	0.32	-1.61	Other MWD
4902.00	10.10	141.00	4878.66	-208.00	177.60	-271.74	0.32	0.11	1.72	Other MWD
4994.00	9.60	137.70	4969.31	-219.95	187.84	-287.38	0.82	-0.54	-3.59	Other MWD
5087.00	10.00	137.90	5060.95	-231.68	198.47	-303.15	0.43	0.43	0.22	Other MWD
5179.00	9.50	137.90	5151.62	-243.24	208.91	-318.68	0.54	-0.54	0.00	Other MWD
5272.00	9.70	140.90	5243.32	-255.01	219.00	-334.08	0.58	0.22	3.23	Other MWD
5365.00	10.20	134.50	5334.92	-266.86	229.81	-350.08	1.30	0.54	-6.88	Other MWD
5458.00	10.60	134.20	5426.40	-278.60	241.82	-366.86	0.43	0.43	-0.32	Other MWD
5552.00	10.90	135.40	5518.75	-290.95	254.26	-384.38	0.40	0.32	1.28	Other MWD
5674.00	10.10	135.00	5638.70	-306.73	269.92	-406.60	0.66	-0.66	-0.33	Other MWD
5767.00	9.80	139.30	5730.30	-318.50	280.85	-422.61	0.86	-0.32	4.62	Other MWD
5860.00	9.20	140.40	5822.03	-330.23	290.75	-437.85	0.67	-0.65	1.18	Other MWD
5930.00	9.60	139.90	5891.09	-339.00	298.08	-449.20	0.58	0.57	-0.71	Ryan MWD
6062.00	10.40	141.70	6021.08	-356.77	312.55	-471.90	0.65	0.61	1.36	Ryan MWD
6190.00	11.30	143.60	6146.79	-375.93	327.15	-495.65	0.76	0.70	1.48	Ryan MWD
6319.00	11.90	145.50	6273.16	-397.07	342.19	-521.06	0.55	0.47	1.47	Ryan MWD
6408.00	12.20	147.10	6360.20	-412.52	352.49	-539.14	0.50	0.34	1.80	Ryan MWD
6451.00	12.40	146.50	6402.21	-420.19	357.51	-548.03	0.55	0.47	-1.40	Ryan MWD
6493.00	7.20	152.80	6443.58	-426.30	361.20	-554.90	12.62	-12.38	15.00	Ryan MWD
6536.00	2.90	211.00	6486.43	-429.63	361.88	-557.66	14.38	-10.00	135.35	Ryan MWD
6582.00	7.20	260.90	6532.26	-431.08	358.43	-556.13	12.55	9.35	108.48	Ryan MWD
6624.00	11.30	281.70	6573.71	-430.66	351.79	-551.00	12.45	9.76	49.52	Ryan MWD
6669.00	16.60	288.40	6617.37	-427.74	341.37	-541.38	12.29	11.78	14.89	Ryan MWD
6714.00	20.80	297.30	6660.00	-422.04	328.16	-527.83	11.26	9.33	19.78	Ryan MWD
6759.00	23.70	302.90	6701.65	-413.46	313.46	-511.23	7.98	6.44	12.44	Ryan MWD
6804.00	27.90	304.30	6742.15	-402.61	297.16	-491.91	9.43	9.33	3.11	Ryan MWD
6849.00	33.10	305.10	6780.91	-389.60	278.40	-469.32	11.59	11.56	1.78	Ryan MWD
6891.00	38.00	303.90	6815.07	-375.79	258.27	-445.18	11.78	11.67	-2.86	Ryan MWD
6936.00	42.20	302.80	6849.49	-359.87	234.06	-416.61	9.46	9.33	-2.44	Ryan MWD
6981.00	46.70	304.30	6881.60	-342.44	207.82	-385.53	10.27	10.00	3.33	Ryan MWD
7026.00	51.60	305.40	6911.03	-322.99	179.90	-351.85	11.04	10.89	2.44	Ryan MWD
7071.00	53.50	306.40	6938.39	-302.04	150.96	-316.40	4.58	4.22	2.22	Ryan MWD
7116.00	57.30	308.60	6963.94	-279.48	121.60	-279.54	9.35	8.44	4.89	Ryan MWD
7161.00	62.20	311.90	6986.61	-254.36	91.96	-240.73	12.60	10.89	7.33	Ryan MWD
7206.00	67.40	311.50	7005.76	-227.29	61.57	-200.04	11.58	11.56	-0.89	Ryan MWD
7248.00	71.30	310.30	7020.57	-201.56	31.86	-160.77	9.66	9.29	-2.86	Ryan MWD
7293.00	75.30	309.70	7033.50	-173.86	-1.15	-117.74	8.98	8.89	-1.33	Ryan MWD
7338.00	80.90	308.30	7042.78	-146.17	-35.36	-73.83	12.81	12.44	-3.11	Ryan MWD
7381.00	86.20	307.10	7047.61	-120.05	-69.15	-31.30	12.63	12.33	-2.79	Ryan MWD
7426.00	88.80	306.80	7049.57	-93.03	-105.08	13.40	5.82	5.78	-0.67	Ryan MWD
7471.00	89.10	307.10	7050.39	-65.98	-141.03	58.14	0.94	0.67	0.67	Ryan MWD
7605.00	89.80	308.60	7051.68	16.23	-246.83	191.59	1.24	0.52	1.12	Ryan MWD
7739.00	90.20	311.10	7051.68	102.09	-349.70	325.38	1.89	0.30	1.87	Ryan MWD
7874.00	87.70	313.40	7054.15	192.83	-449.60	460.33	2.52	-1.85	1.70	Ryan MWD
8003.00	87.80	314.70	7059.22	282.45	-542.24	589.20	1.01	0.08	1.01	Ryan MWD
8135.00	89.10	313.90	7062.79	374.60	-636.68	721.12	1.16	0.98	-0.61	Ryan MWD
8267.00	89.60	314.50	7064.29	466.62	-731.30	853.08	0.59	0.38	0.45	Ryan MWD



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Company: Chesapeake Operating, Inc. Field: Wetzel Co, WV Site: Saber 3H Well: Well # 3H Wellpath: 3H	Date: 7/6/2010 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 13:33:45 Site: Saber 3H, Grid North Est RKB 1339.0 Well (0.00N,0.00E,313.00Azi) Minimum Curvature	Page: 4 Db: Sybase
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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/Comment
8400.00	90.90	315.20	7063.71	560.42	-825.59	986.00	1.11	0.98	0.53	Ryan MWD
8532.00	89.70	314.80	7063.01	653.75	-918.93	1117.92	0.96	-0.91	-0.30	Ryan MWD
8664.00	89.50	315.20	7063.94	747.09	-1012.26	1249.83	0.34	-0.15	0.30	Ryan MWD
8794.00	91.40	315.50	7062.92	839.56	-1103.61	1379.71	1.48	1.46	0.23	Ryan MWD
8924.00	90.80	315.40	7060.42	932.19	-1194.80	1509.57	0.47	-0.46	-0.08	Ryan MWD
9059.00	89.80	314.30	7059.71	1027.40	-1290.50	1644.50	1.10	-0.74	-0.81	Ryan MWD
9194.00	90.20	314.50	7059.71	1121.85	-1386.96	1779.45	0.33	0.30	0.15	Ryan MWD
9328.00	89.40	312.50	7060.18	1214.08	-1484.15	1913.44	1.61	-0.60	-1.49	Ryan MWD
9461.00	89.80	312.00	7061.11	1303.51	-1582.60	2046.43	0.48	0.30	-0.38	Ryan MWD
9596.00	90.50	313.40	7060.76	1395.05	-1681.81	2181.42	1.16	0.52	1.04	Ryan MWD
9730.00	88.90	314.90	7061.46	1488.38	-1777.95	2315.38	1.64	-1.19	1.12	Ryan MWD
9865.00	89.90	316.10	7062.87	1584.66	-1872.56	2450.24	1.16	0.74	0.89	Ryan MWD
10000.00	89.10	315.70	7064.05	1681.61	-1966.50	2585.06	0.66	-0.59	-0.30	Ryan MWD
10134.00	89.80	314.90	7065.34	1776.85	-2060.75	2718.95	0.79	0.52	-0.60	Ryan MWD
10266.00	90.20	314.20	7065.34	1869.45	-2154.82	2850.90	0.61	0.30	-0.53	Ryan MWD
10400.00	89.80	312.60	7065.34	1961.52	-2252.18	2984.89	1.23	-0.30	-1.19	Ryan MWD
10528.00	90.20	312.10	7065.34	2047.74	-2346.78	3112.88	0.50	0.31	-0.39	Ryan MWD
10659.00	90.70	313.30	7064.31	2136.58	-2443.04	3243.87	0.99	0.38	0.92	Ryan MWD
10794.00	92.00	315.80	7061.13	2231.25	-2539.21	3378.77	2.09	0.96	1.85	Ryan MWD
10923.00	89.30	312.60	7059.66	2321.16	-2631.67	3507.71	3.25	-2.09	-2.48	Ryan MWD
11054.00	90.00	313.30	7060.46	2410.41	-2727.55	3638.70	0.76	0.53	0.53	Ryan MWD
11186.00	90.20	314.70	7060.23	2502.10	-2822.50	3770.68	1.07	0.15	1.06	Ryan MWD
11319.00	90.10	314.60	7059.88	2595.57	-2917.12	3903.62	0.11	-0.08	-0.08	Ryan MWD
11454.00	89.80	314.10	7060.00	2689.94	-3013.66	4038.58	0.43	-0.22	-0.37	Ryan MWD
11585.00	89.60	314.30	7060.69	2781.27	-3107.57	4169.55	0.22	-0.15	0.15	Ryan MWD
11720.00	90.20	314.40	7060.92	2875.64	-3204.11	4304.52	0.45	0.44	0.07	Ryan MWD
11853.00	89.60	313.70	7061.15	2968.11	-3299.70	4437.49	0.69	-0.45	-0.53	Ryan MWD
11986.00	90.20	314.80	7061.39	3060.91	-3394.96	4570.46	0.94	0.45	0.83	Ryan MWD
12118.00	89.90	314.40	7061.27	3153.60	-3488.95	4702.40	0.38	-0.23	-0.30	Ryan MWD
12209.00	89.90	314.20	7061.43	3217.15	-3554.08	4793.38	0.22	0.00	-0.22	Ryan MWD
12266.00	89.90	314.20	7061.53	3256.89	-3594.94	4850.37	0.00	0.00	0.00	PROJECTED to TD