

Pioneer Natural Res. USA, University 3-19 47H Gyro+MWD



Report Date: 10/23/2014	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Pioneer Natural Res. USA,	Vertical Section Azimuth: 182.79° (GridNorth)
Field: Spraberry (Trend Area)	Vertical Section Origin: 0 ft, 0 ft
Structure / Slot: Pioneer Natural Res. USA, University 3-19 47H / Pioneer Natural Res. USA, University 3-19 47H	TVD Reference Datum: DF
Well: University 3-19 47H	TVD Reference Elevation: 2704 ft above MSL
Borehole: Primary	Sea Bed / Ground Level Elevation: 2678 ft above MSL
UWI/API#: Unknown / 42-461-39157	Magnetic Declination: 6.3565 °
Survey Name / Date: Pioneer Natural Res. USA, University 3-19 47H Gyro+MWD 21-Jun-2014	Total Field Strength: 47908.73 nT
Grid Coordinate System: NAD 27 Texas State Plane,	Magnetic Dip: 59.4882 °
Location Lat/Long: 31° 16' 6.198" N, 101° 47' 3.177" W	Declination Date: 6/4/2014
Location Grid N/E Y/X: Easting: 1546720.10ft USNorthing: 585479.86ft US	Magnetic Declination Model: BGGM 2013
Grid Convergence Angle: -0.74729 °	North Reference: GridNorth
Grid Scale Factor: 	Total Corr Mag North -> Grid North: 7.1 °
	Local Coordinates Referenced To: GridNorth

MD	INCL	AZIM	TVD	VSEC	ND	ED	DLS	RUNNO	TOOLTYPE	CLOSURE	ATAZIM	DATE
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-999.25	TIP	0.00	90	4-Jun-14
150.00	1.06	132.04	149.99	0.88	-0.93	1.03	0.71	Run1	Other	1.39	132.04	5-Jun-14
243.00	1.06	133.97	242.98	1.99	-2.10	2.29	0.04	Run1	Other	3.11	132.57	5-Jun-14
340.00	1.41	125.10	339.95	3.22	-3.41	3.91	0.41	Run1	Other	5.19	131.1	5-Jun-14
432.00	1.14	118.68	431.93	4.22	-4.50	5.64	0.33	Run1	Other	7.22	128.6	5-Jun-14
524.00	1.49	129.84	523.91	5.34	-5.71	7.36	0.47	Run1	Other	9.31	127.79	5-Jun-14
616.00	0.62	158.14	615.89	6.52	-6.94	8.46	1.07	Run1	Other	10.94	129.33	5-Jun-14
708.00	0.44	351.70	707.89	6.62	-7.05	8.60	1.14	Run1	Other	11.12	129.34	5-Jun-14
800.00	0.79	333.84	799.88	5.72	-6.13	8.27	0.43	Run1	Other	10.29	126.55	5-Jun-14
891.00	0.79	347.11	890.87	4.57	-4.95	7.85	0.20	Run1	Other	9.28	122.25	5-Jun-14
986.00	0.88	347.37	985.86	3.23	-3.60	7.55	0.09	Run1	Other	8.36	115.53	5-Jun-14
1080.00	1.06	334.19	1079.85	1.77	-2.12	7.01	0.30	Run1	Other	7.32	106.8	5-Jun-14
1137.00	0.88	344.82	1136.84	0.89	-1.22	6.67	0.45	Run1	Other	6.78	100.37	5-Jun-14
1302.00	0.53	336.56	1301.83	-1.00	0.70	6.03	0.22	Run1	Other	6.07	83.35	5-Jun-14
1397.00	0.62	332.43	1396.83	-1.83	1.56	5.62	0.10	Run1	Other	5.83	74.46	5-Jun-14
1492.00	0.70	319.69	1491.82	-2.70	2.46	5.00	0.18	Run1	Other	5.58	63.82	5-Jun-14
1586.00	0.88	313.89	1585.81	-3.59	3.40	4.11	0.21	Run1	Other	5.34	50.43	5-Jun-14
1681.00	0.97	301.76	1680.80	-4.46	4.33	2.90	0.23	Run1	Other	5.21	33.86	5-Jun-14
1776.00	0.88	285.94	1775.79	-5.02	4.95	1.52	0.28	Run1	Other	5.18	17.05	5-Jun-14
1871.00	0.88	287.08	1870.77	-5.36	5.37	0.12	0.02	Run1	Other	5.37	1.27	5-Jun-14
1966.00	0.79	299.47	1965.76	-5.84	5.90	-1.15	0.21	Run1	Other	6.01	348.99	5-Jun-14
2060.00	0.79	306.24	2059.76	-6.49	6.60	-2.24	0.10	Run1	Other	6.97	341.3	5-Jun-14
2155.00	0.62	303.52	2154.75	-7.11	7.27	-3.19	0.18	Run1	Other	7.94	336.31	5-Jun-14
2250.00	0.53	296.66	2249.74	-7.55	7.76	-4.01	0.12	Run1	Other	8.73	332.64	5-Jun-14
2344.00	0.35	298.33	2343.74	-7.85	8.09	-4.65	0.19	Run1	Other	9.33	330.08	5-Jun-14
2439.00	0.18	309.76	2438.74	-8.07	8.32	-5.02	0.19	Run1	Other	9.72	328.87	5-Jun-14
2534.00	0.09	325.40	2533.74	-8.21	8.48	-5.18	0.10	Run1	Other	9.94	328.57	5-Jun-14
2629.00	0.09	16.11	2628.74	-8.35	8.61	-5.20	0.08	Run1	Other	10.06	328.86	5-Jun-14
2723.00	0.18	21.74	2722.74	-8.56	8.82	-5.13	0.10	Run1	Other	10.20	329.82	5-Jun-14
2818.00	0.26	19.28	2817.74	-8.91	9.16	-5.00	0.08	Run1	Other	10.44	331.37	5-Jun-14
2913.00	0.26	17.61	2912.74	-9.32	9.57	-4.87	0.01	Run1	Other	10.74	333.05	5-Jun-14
3008.00	0.35	17.61	3007.74	-9.81	10.05	-4.71	0.09	Run1	Other	11.10	334.88	5-Jun-14
3102.00	0.26	14.27	3101.73	-10.30	10.53	-4.57	0.10	Run1	Other	11.48	336.53	5-Jun-14
3197.00	0.26	5.14	3196.73	-10.72	10.96	-4.50	0.04	Run1	Other	11.84	337.67	5-Jun-14
3292.00	0.26	2.05	3291.73	-11.15	11.39	-4.47	0.01	Run1	Other	12.23	338.55	5-Jun-14
3386.00	0.26	6.18	3385.73	-11.58	11.81	-4.44	0.02	Run1	Other	12.62	339.39	5-Jun-14
3481.00	0.35	8.64	3480.73	-12.08	12.31	-4.38	0.10	Run1	Other	13.07	340.43	5-Jun-14
3576.00	0.44	5.39	3575.73	-12.74	12.96	-4.30	0.10	Run1	Other	13.66	341.65	5-Jun-14
3670.00	0.09	87.92	3669.73	-13.10	13.32	-4.19	0.47	Run1	Other	13.97	342.54	5-Jun-14
3765.00	0.62	223.27	3764.73	-12.72	12.95	-4.47	0.72	Run1	Other	13.70	340.97	5-Jun-14
3860.00	0.97	240.06	3859.72	-11.89	12.18	-5.52	0.44	Run1	Other	13.37	335.62	5-Jun-14
3954.00	1.06	234.96	3953.70	-10.93	11.28	-6.92	0.14	Run1	Other	13.23	328.48	5-Jun-14
4049.00	1.06	236.19	4048.69	-9.87	10.29	-8.37	0.02	Run1	Other	13.26	320.87	5-Jun-14
4144.00	0.88	235.40	4143.67	-8.90	9.38	-9.70	0.19	Run1	Other	13.50	314.05	5-Jun-14
4238.00	0.88	224.06	4237.66	-7.92	8.45	-10.79	0.18	Run1	Other	13.71	308.07	5-Jun-14
4333.00	0.70	157.44	4332.65	-6.85	7.39	-11.08	0.93	Run1	Other	13.32	303.72	5-Jun-14

4428.00	1.06	137.40	4427.64	-5.71	6.21	-10.26	0.49	Run1	Other	12.00	301.19	5-Jun-14
4522.00	1.14	141.71	4521.62	-4.39	4.84	-9.09	0.12	Run1	Other	10.30	298.01	5-Jun-14
4617.00	1.06	137.40	4616.61	-3.06	3.45	-7.91	0.12	Run1	Other	8.63	293.55	5-Jun-14
4712.00	1.23	134.85	4711.59	-1.76	2.08	-6.60	0.19	Run1	Other	6.92	287.53	5-Jun-14
4806.00	0.97	125.98	4805.57	-0.65	0.90	-5.24	0.33	Run1	Other	5.31	279.8	5-Jun-14
4901.00	0.09	253.68	4900.57	-0.18	0.41	-4.66	1.08	Run1	Other	4.68	275.05	5-Jun-14
4998.00	0.18	178.18	4997.57	-0.01	0.24	-4.73	0.19	Run1	Other	4.73	272.88	5-Jun-14
5093.00	1.58	251.48	5092.55	0.62	-0.33	-5.96	1.62	Run1	Other	5.97	266.85	5-Jun-14
5188.00	2.29	258.16	5187.50	1.57	-1.13	-9.06	0.78	Run1	Other	9.13	262.87	5-Jun-14
5283.00	2.99	270.20	5282.40	2.16	-1.51	-13.40	0.94	Run1	Other	13.48	263.55	5-Jun-14
5377.00	3.61	267.92	5376.24	2.53	-1.61	-18.81	0.67	Run1	Other	18.88	265.1	5-Jun-14
5472.00	4.48	265.37	5471.00	3.26	-2.02	-25.49	0.93	Run1	Other	25.57	265.47	5-Jun-14
5567.00	4.04	266.16	5565.74	4.12	-2.54	-32.53	0.47	Run1	Other	32.63	265.53	5-Jun-14
5662.00	4.13	262.38	5660.50	5.13	-3.22	-39.26	0.30	Run1	Other	39.39	265.31	5-Jun-14
5756.00	4.92	270.47	5754.21	5.90	-3.64	-46.65	1.08	Run1	Other	46.79	265.54	5-Jun-14
5851.00	4.57	276.97	5848.88	5.79	-3.15	-54.48	0.67	Run1	Other	54.57	266.7	5-Jun-14
5946.00	2.99	274.77	5943.67	5.43	-2.48	-60.70	1.67	Run1	Other	60.75	267.66	5-Jun-14
6040.00	3.17	270.12	6037.54	5.47	-2.27	-65.75	0.33	Run1	Other	65.79	268.02	5-Jun-14
6135.00	3.52	264.32	6132.38	6.02	-2.55	-71.27	0.51	Run1	Other	71.32	267.95	5-Jun-14
6230.00	3.52	261.42	6227.20	7.02	-3.28	-77.06	0.19	Run1	Other	77.13	267.56	5-Jun-14
6324.00	3.17	272.67	6321.04	7.60	-3.59	-82.51	0.79	Run1	Other	82.59	267.51	5-Jun-14
6419.00	3.17	291.30	6415.89	6.77	-2.51	-87.58	1.08	Run1	Other	87.62	268.36	5-Jun-14
6514.00	4.75	268.18	6510.67	6.25	-1.68	-93.96	2.33	Run1	Other	93.98	268.98	5-Jun-14
6609.00	4.92	268.89	6605.33	6.85	-1.88	-101.97	0.19	Run1	Other	101.98	268.94	5-Jun-14
6703.00	5.19	258.43	6698.97	8.17	-2.82	-110.16	1.02	Run1	Other	110.20	268.54	5-Jun-14
6798.00	4.66	260.01	6793.62	10.09	-4.35	-118.17	0.58	Run1	Other	118.25	267.89	5-Jun-14
6893.00	5.01	265.02	6888.28	11.51	-5.38	-126.10	0.58	Run1	Other	126.22	267.56	5-Jun-14
6987.00	4.31	264.76	6981.97	12.56	-6.06	-133.71	0.75	Run1	Other	133.85	267.41	5-Jun-14
7082.00	3.25	259.75	7076.76	13.66	-6.86	-139.92	1.17	Run1	Other	140.08	267.19	5-Jun-14
7177.00	3.87	261.33	7171.58	14.91	-7.82	-145.73	0.66	Run1	Other	145.94	266.93	5-Jun-14
7271.00	3.25	268.10	7265.40	15.76	-8.39	-151.53	0.80	Run1	Other	151.77	266.83	5-Jun-14
7366.00	3.61	258.96	7360.23	16.69	-9.05	-157.16	0.69	Run1	Other	157.42	266.7	5-Jun-14
7461.00	4.84	261.86	7454.97	18.17	-10.19	-164.06	1.31	Run1	Other	164.38	266.45	5-Jun-14
7556.00	5.80	264.67	7549.56	19.60	-11.21	-172.81	1.05	Run1	Other	173.17	266.29	5-Jun-14
7650.00	5.01	264.76	7643.14	20.85	-12.02	-181.63	0.84	Run1	Other	182.03	266.21	5-Jun-14
7665.00	4.66	265.02	7658.08	21.02	-12.13	-182.89	2.34	Run1	Other	183.29	266.2	5-Jun-14
7747.00	3.61	260.17	7739.87	22.04	-12.86	-188.75	1.35	Run1	SlimPulse	189.18	266.1	5-Jun-14
7779.00	3.62	246.16	7771.81	22.71	-13.44	-190.66	2.75	Run1	SlimPulse	191.13	265.97	5-Jun-14
7810.00	4.05	226.04	7802.74	23.94	-14.60	-192.34	4.53	Run1	SlimPulse	192.90	265.66	5-Jun-14
7905.00	4.58	201.18	7897.48	29.98	-20.46	-196.13	2.03	Run1	SlimPulse	197.19	264.04	5-Jun-14
7936.00	4.10	213.62	7928.39	32.11	-22.54	-197.19	3.39	Run1	SlimPulse	198.47	263.48	5-Jun-14
7968.00	4.55	231.15	7960.30	33.94	-24.29	-198.81	4.34	Run1	SlimPulse	200.29	263.03	5-Jun-14
8000.00	5.76	231.43	7992.17	35.84	-26.09	-201.05	3.81	Run1	SlimPulse	202.74	262.61	5-Jun-14
8031.00	8.29	230.89	8022.93	38.36	-28.47	-204.01	8.15	Run1	SlimPulse	205.98	262.06	5-Jun-14
8063.00	11.38	227.36	8054.46	42.16	-32.06	-208.12	9.84	Run1	SlimPulse	210.58	261.24	5-Jun-14
8094.00	14.62	220.64	8084.66	47.43	-37.11	-212.92	11.52	Run1	SlimPulse	216.13	260.11	5-Jun-14
8126.00	17.68	207.45	8115.41	55.04	-44.49	-217.80	14.86	Run1	SlimPulse	222.29	258.46	5-Jun-14
8158.00	19.58	198.17	8145.74	64.62	-53.90	-221.71	10.99	Run1	SlimPulse	228.17	256.34	5-Jun-14
8189.00	19.89	187.68	8174.92	74.89	-64.06	-224.03	11.46	Run1	SlimPulse	233.01	254.04	5-Jun-14
8221.00	20.42	178.67	8204.97	85.88	-75.04	-224.63	9.82	Run1	SlimPulse	236.83	251.53	5-Jun-14
8252.00	22.96	181.30	8233.78	97.32	-86.49	-224.64	8.79	Run1	SlimPulse	240.72	248.94	6-Jun-14
8284.00	24.51	186.03	8263.07	110.19	-99.34	-225.48	7.65	Run1	SlimPulse	246.39	246.22	6-Jun-14
8315.00	26.57	192.20	8291.05	123.46	-112.51	-227.63	10.86	Run1	SlimPulse	253.91	243.7	6-Jun-14
8347.00	30.44	195.16	8319.16	138.44	-127.33	-231.26	12.86	Run1	SlimPulse	264.00	241.16	6-Jun-14
8379.00	33.69	195.06	8346.28	155.03	-143.73	-235.69	10.17	Run1	SlimPulse	276.06	238.62	6-Jun-14
8410.00	35.48	192.73	8371.80	172.30	-160.81	-239.90	7.18	Run1	SlimPulse	288.82	236.16	6-Jun-14
8442.00	38.17	190.02	8397.41	191.27	-179.62	-243.67	9.82	Run1	SlimPulse	302.72	233.6	6-Jun-14
8473.00	41.42	187.68	8421.23	210.99	-199.22	-246.71	11.54	Run1	SlimPulse	317.10	231.08	6-Jun-14
8505.00	45.20	186.79	8444.51	232.87	-220.99	-249.47	11.95	Run1	SlimPulse	333.27	228.46	6-Jun-14
8536.00	48.46	185.81	8465.71	255.44	-243.46	-251.94	10.79	Run1	SlimPulse	350.35	225.98	6-Jun-14
8568.00	51.42	185.87	8486.31	279.89	-267.82	-254.43	9.25	Run1	SlimPulse	369.41	223.53	6-Jun-14
8600.00	54.67	187.09	8505.54	305.41	-293.23	-257.32	10.61	Run1	SlimPulse	390.13	221.27	6-Jun-14
8631.00	58.12	187.39	8522.69	331.14	-318.84	-260.58	11.16	Run1	SlimPulse	411.78	219.26	6-Jun-14
8663.00	60.55	187.48	8539.01	358.58	-346.13	-264.14	7.58	Run1	SlimPulse	435.40	217.35	6-Jun-14
8694.00	62.93	187.27	8553.69	385.79	-373.21	-267.64	7.70	Run1	SlimPulse	459.26	215.65	6-Jun-14

8726.00	65.79	187.47	8567.54	414.55	-401.81	-271.35	8.96	Run1	SlimPulse	484.85	214.03	6-Jun-14
8757.00	69.45	187.08	8579.34	443.12	-430.24	-274.98	11.87	Run1	SlimPulse	510.61	212.58	6-Jun-14
8789.00	72.36	187.03	8589.81	473.27	-460.25	-278.69	9.09	Run1	SlimPulse	538.05	211.2	6-Jun-14
8820.00	74.63	188.51	8598.61	502.88	-489.70	-282.71	8.65	Run1	SlimPulse	565.44	210	6-Jun-14
8852.00	75.75	187.70	8606.79	533.68	-520.32	-287.07	4.28	Run1	SlimPulse	594.26	208.89	6-Jun-14
8884.00	76.41	187.83	8614.49	564.62	-551.10	-291.27	2.10	Run1	SlimPulse	623.34	207.86	6-Jun-14
8915.00	78.25	186.47	8621.29	594.78	-581.11	-295.03	7.33	Run1	SlimPulse	651.71	206.92	6-Jun-14
8947.00	81.51	185.54	8626.91	626.23	-612.43	-298.33	10.57	Run1	SlimPulse	681.23	205.97	6-Jun-14
8978.00	83.63	183.20	8630.92	656.95	-643.08	-300.67	10.14	Run1	SlimPulse	709.89	205.06	6-Jun-14
9041.00	92.27	181.84	8633.17	719.85	-705.92	-303.43	13.88	Run1	SlimPulse	768.37	203.26	6-Jun-14
9136.00	90.76	181.64	8630.66	814.80	-800.84	-306.32	1.61	Run1	SlimPulse	857.42	200.93	6-Jun-14
9231.00	88.83	182.10	8631.01	909.78	-895.78	-309.42	2.08	Run1	SlimPulse	947.72	199.06	6-Jun-14
9326.00	90.69	181.27	8631.40	1004.76	-990.73	-312.21	2.14	Run1	SlimPulse	1038.76	197.49	6-Jun-14
9420.00	88.35	184.52	8632.19	1098.73	-1084.59	-316.95	4.26	Run1	SlimPulse	1129.95	196.29	6-Jun-14
9515.00	88.73	181.98	8634.62	1193.69	-1179.40	-322.33	2.71	Run1	SlimPulse	1222.65	195.29	6-Jun-14
9610.00	91.72	182.40	8634.25	1288.67	-1274.32	-325.95	3.18	Run1	SlimPulse	1315.35	194.35	6-Jun-14
9705.00	90.10	183.76	8632.74	1383.66	-1369.16	-331.05	2.23	Run1	SlimPulse	1408.62	193.59	7-Jun-14
9799.00	90.24	182.76	8632.46	1477.65	-1463.01	-336.39	1.08	Run1	SlimPulse	1501.19	192.95	7-Jun-14
9894.00	91.38	182.52	8631.12	1572.64	-1557.90	-340.77	1.22	Run1	SlimPulse	1594.73	192.34	7-Jun-14
9989.00	88.62	179.16	8631.11	1667.56	-1652.87	-342.16	4.57	Run1	SlimPulse	1687.91	191.7	7-Jun-14
10084.00	90.96	180.02	8631.46	1762.41	-1747.86	-341.49	2.62	Run1	SlimPulse	1780.90	191.05	7-Jun-14
10178.00	89.52	178.36	8631.06	1856.21	-1841.84	-340.16	2.34	Run1	SlimPulse	1872.99	190.46	7-Jun-14
10273.00	89.38	174.36	8631.97	1950.59	-1936.62	-334.13	4.21	Run1	SlimPulse	1965.24	189.79	7-Jun-14
10368.00	90.58	176.91	8632.00	2044.84	-2031.34	-326.90	2.97	Run1	SlimPulse	2057.48	189.14	7-Jun-14
10462.00	90.52	179.88	8631.10	2138.55	-2125.29	-324.27	3.16	Run1	SlimPulse	2149.88	188.68	7-Jun-14
10557.00	90.41	181.47	8630.33	2233.48	-2220.28	-325.38	1.68	Run1	SlimPulse	2243.99	188.34	7-Jun-14
10652.00	91.44	182.77	8628.79	2328.46	-2315.19	-328.89	1.74	Run1	SlimPulse	2338.44	188.09	7-Jun-14
10747.00	89.97	179.21	8627.62	2423.39	-2410.16	-330.53	4.05	Run1	SlimPulse	2432.71	187.81	7-Jun-14
10841.00	90.89	181.04	8626.92	2517.28	-2504.15	-330.74	2.18	Run1	SlimPulse	2525.89	187.52	7-Jun-14
10936.00	89.55	186.29	8626.55	2612.23	-2598.92	-336.81	5.71	Run1	SlimPulse	2620.65	187.38	7-Jun-14
11031.00	90.14	183.11	8626.80	2707.17	-2693.58	-344.60	3.41	Run1	SlimPulse	2715.54	187.29	7-Jun-14
11126.00	90.24	184.33	8626.49	2802.15	-2788.38	-350.76	1.29	Run1	SlimPulse	2810.36	187.17	7-Jun-14
11220.00	90.48	184.80	8625.90	2896.10	-2882.08	-358.24	0.56	Run1	SlimPulse	2904.26	187.09	7-Jun-14
11315.00	90.83	183.45	8624.81	2991.07	-2976.83	-365.07	1.46	Run1	SlimPulse	2999.13	186.99	7-Jun-14
11410.00	87.80	181.49	8625.95	3086.04	-3071.72	-369.18	3.79	Run1	SlimPulse	3093.82	186.85	7-Jun-14
11504.00	89.52	183.93	8628.15	3180.01	-3165.57	-373.62	3.17	Run1	SlimPulse	3187.55	186.73	7-Jun-14
11599.00	90.96	187.29	8627.75	3274.88	-3260.10	-382.91	3.86	Run1	SlimPulse	3282.51	186.7	7-Jun-14
11694.00	91.89	184.01	8625.38	3369.71	-3354.60	-392.26	3.59	Run1	SlimPulse	3377.45	186.67	7-Jun-14
11789.00	91.00	182.97	8622.99	3464.67	-3449.39	-398.04	1.45	Run1	SlimPulse	3472.28	186.58	7-Jun-14
11883.00	88.76	179.74	8623.19	3558.63	-3543.34	-400.26	4.18	Run1	SlimPulse	3565.88	186.44	7-Jun-14
11978.00	89.17	181.31	8624.90	3653.53	-3638.32	-401.13	1.71	Run1	SlimPulse	3660.37	186.29	7-Jun-14
12081.00	87.97	181.67	8627.46	3756.47	-3741.25	-403.81	1.22	Run2	SlimPulse	3762.98	186.16	12-Jun-14
12175.00	91.27	181.29	8628.08	3850.43	-3835.21	-406.23	3.54	Run2	SlimPulse	3856.66	186.05	12-Jun-14
12270.00	91.45	180.92	8625.83	3945.36	-3930.16	-408.05	0.43	Run2	SlimPulse	3951.29	185.93	12-Jun-14
12365.00	91.27	180.38	8623.58	4040.27	-4025.13	-409.12	0.60	Run2	SlimPulse	4045.87	185.8	12-Jun-14
12460.00	91.51	180.41	8621.27	4135.16	-4120.10	-409.77	0.26	Run2	SlimPulse	4140.43	185.68	12-Jun-14
12554.00	91.17	179.30	8619.07	4229.01	-4214.07	-409.53	1.24	Run2	SlimPulse	4233.92	185.55	12-Jun-14
12649.00	91.55	179.76	8616.82	4323.83	-4309.04	-408.75	0.62	Run2	SlimPulse	4328.38	185.42	12-Jun-14
12744.00	90.76	178.60	8614.91	4418.62	-4404.01	-407.39	1.48	Run2	SlimPulse	4422.81	185.29	12-Jun-14
12838.00	91.48	178.82	8613.07	4512.36	-4497.97	-405.27	0.80	Run2	SlimPulse	4516.19	185.15	12-Jun-14
12933.00	91.03	178.64	8610.99	4607.10	-4592.92	-403.17	0.51	Run2	SlimPulse	4610.58	185.02	12-Jun-14
13028.00	91.38	179.03	8609.00	4701.85	-4687.88	-401.24	0.55	Run2	SlimPulse	4705.02	184.89	12-Jun-14
13123.00	90.79	179.38	8607.20	4796.65	-4782.85	-399.93	0.72	Run2	SlimPulse	4799.54	184.78	12-Jun-14
13217.00	91.58	181.76	8605.25	4890.55	-4876.82	-400.86	2.67	Run2	SlimPulse	4893.27	184.7	12-Jun-14
13312.00	90.86	181.70	8603.23	4985.51	-4971.75	-403.74	0.76	Run2	SlimPulse	4988.12	184.64	12-Jun-14
13407.00	90.31	181.02	8602.26	5080.48	-5066.72	-405.99	0.93	Run2	SlimPulse	5082.96	184.58	13-Jun-14
13501.00	90.55	180.88	8601.55	5174.43	-5160.71	-407.55	0.29	Run2	SlimPulse	5176.77	184.52	13-Jun-14
13596.00	91.00	181.63	8600.27	5269.38	-5255.67	-409.63	0.91	Run2	SlimPulse	5271.61	184.46	13-Jun-14
13691.00	91.03	182.14	8598.59	5364.36	-5350.61	-412.75	0.54	Run2	SlimPulse	5366.50	184.41	13-Jun-14
13785.00	90.28	183.06	8597.52	5458.35	-5444.50	-417.02	1.26	Run2	SlimPulse	5460.45	184.38	13-Jun-14
13880.00	89.45	182.50	8597.75	5553.35	-5539.39	-421.62	1.05	Run2	SlimPulse	5555.41	184.35	13-Jun-14
13975.00	89.76	182.62	8598.40	5648.34	-5634.29	-425.86	0.35	Run2	SlimPulse	5650.36	184.32	13-Jun-14
14069.00	90.00	182.49	8598.60	5742.34	-5728.20	-430.05	0.29	Run2	SlimPulse	5744.32	184.29	13-Jun-14
14164.00	89.59	180.73	8598.94	5837.32	-5823.16	-432.72	1.91	Run2	SlimPulse	5839.21	184.25	13-Jun-14
14259.00	89.62	179.95	8599.60	5932.23	-5918.15	-433.29	0.82	Run2	SlimPulse	5933.99	184.19	13-Jun-14

14354.00	90.52	180.76	8599.48	6027.14	-6013.15	-433.89	1.27	Run2	SlimPulse	6028.78	184.13	13-Jun-14
14448.00	90.93	181.26	8598.30	6121.09	-6107.13	-435.55	0.69	Run2	SlimPulse	6122.64	184.08	13-Jun-14
14543.00	90.48	181.43	8597.13	6216.05	-6202.09	-437.78	0.50	Run2	SlimPulse	6217.52	184.04	13-Jun-14
14638.00	91.69	181.69	8595.33	6311.01	-6297.04	-440.37	1.30	Run2	SlimPulse	6312.42	184	13-Jun-14
14732.00	91.62	181.66	8592.62	6404.95	-6390.96	-443.12	0.08	Run2	SlimPulse	6406.30	183.97	13-Jun-14
14827.00	91.17	179.09	8590.31	6499.83	-6485.92	-443.74	2.75	Run2	SlimPulse	6501.08	183.91	13-Jun-14
14922.00	91.58	178.00	8588.03	6594.54	-6580.86	-441.32	1.22	Run2	SlimPulse	6595.64	183.84	13-Jun-14
15017.00	91.41	178.39	8585.55	6689.20	-6675.78	-438.33	0.45	Run2	SlimPulse	6690.16	183.76	13-Jun-14
15111.00	91.89	179.49	8582.84	6782.95	-6769.72	-436.59	1.28	Run2	SlimPulse	6783.79	183.69	13-Jun-14
15206.00	92.20	180.42	8579.45	6877.77	-6864.66	-436.51	1.03	Run2	SlimPulse	6878.53	183.64	13-Jun-14
15300.00	91.75	181.16	8576.20	6971.66	-6958.60	-437.80	0.92	Run2	SlimPulse	6972.35	183.6	13-Jun-14
15395.00	91.89	181.60	8573.18	7066.58	-7053.52	-440.09	0.49	Run2	SlimPulse	7067.24	183.57	13-Jun-14
15490.00	92.41	182.09	8569.62	7161.50	-7148.40	-443.15	0.75	Run2	SlimPulse	7162.13	183.55	13-Jun-14
15584.00	91.14	181.02	8566.71	7255.43	-7242.32	-445.70	1.77	Run2	SlimPulse	7256.02	183.52	13-Jun-14
15679.00	90.21	179.80	8565.60	7350.34	-7337.31	-446.37	1.61	Run2	SlimPulse	7350.87	183.48	14-Jun-14
15774.00	91.48	179.78	8564.20	7445.20	-7432.30	-446.03	1.34	Run2	SlimPulse	7445.67	183.43	14-Jun-14
15868.00	92.03	179.65	8561.32	7539.02	-7526.25	-445.55	0.60	Run2	SlimPulse	7539.43	183.39	14-Jun-14
15963.00	91.75	179.85	8558.19	7633.83	-7621.20	-445.14	0.36	Run2	SlimPulse	7634.19	183.34	14-Jun-14
16058.00	91.86	180.03	8555.19	7728.67	-7716.15	-445.05	0.22	Run2	SlimPulse	7728.97	183.3	14-Jun-14
16153.00	91.89	180.76	8552.08	7823.53	-7811.10	-445.71	0.77	Run2	SlimPulse	7823.80	183.27	14-Jun-14
16247.00	90.41	178.97	8550.19	7917.38	-7905.07	-445.49	2.48	Run2	SlimPulse	7917.61	183.23	14-Jun-14
16342.00	91.82	180.16	8548.34	8012.21	-8000.05	-444.77	1.95	Run2	SlimPulse	8012.40	183.18	14-Jun-14
16437.00	91.72	181.29	8545.40	8107.10	-8094.99	-445.97	1.19	Run2	SlimPulse	8107.27	183.15	14-Jun-14
16531.00	91.62	182.64	8542.66	8201.05	-8188.89	-449.19	1.43	Run2	SlimPulse	8201.20	183.14	14-Jun-14
16626.00	91.38	182.89	8540.18	8296.02	-8283.75	-453.77	0.36	Run2	SlimPulse	8296.17	183.14	14-Jun-14
16720.00	91.65	183.38	8537.70	8389.98	-8377.58	-458.91	0.60	Run2	SlimPulse	8390.14	183.14	14-Jun-14
16815.00	90.96	181.57	8535.53	8484.95	-8472.46	-463.01	2.05	Run2	SlimPulse	8485.10	183.13	14-Jun-14
16910.00	91.27	180.78	8533.68	8579.90	-8567.42	-464.95	0.89	Run2	SlimPulse	8580.03	183.11	14-Jun-14
17004.00	91.51	180.63	8531.40	8673.81	-8661.39	-466.10	0.30	Run2	SlimPulse	8673.92	183.08	14-Jun-14
17099.00	91.55	180.37	8528.86	8768.70	-8756.35	-466.93	0.28	Run2	SlimPulse	8768.79	183.05	14-Jun-14
17194.00	91.31	180.27	8526.49	8863.58	-8851.32	-467.46	0.27	Run2	SlimPulse	8863.65	183.02	14-Jun-14
17289.00	91.24	180.43	8524.38	8958.47	-8946.29	-468.04	0.18	Run2	SlimPulse	8958.53	182.99	14-Jun-14
17383.00	91.17	180.02	8522.41	9052.35	-9040.27	-468.41	0.44	Run2	SlimPulse	9052.40	182.97	14-Jun-14
17478.00	91.41	180.99	8520.27	9147.25	-9135.24	-469.24	1.06	Run2	SlimPulse	9147.28	182.94	14-Jun-14
17573.00	91.79	180.86	8517.62	9242.17	-9230.19	-470.78	0.42	Run2	SlimPulse	9242.19	182.92	14-Jun-14
17667.00	91.24	180.13	8515.14	9336.06	-9324.15	-471.60	0.97	Run2	SlimPulse	9336.07	182.9	14-Jun-14
17762.00	91.41	179.68	8512.94	9430.91	-9419.13	-471.45	0.51	Run2	SlimPulse	9430.92	182.87	14-Jun-14
17857.00	91.27	179.77	8510.72	9525.75	-9514.10	-470.99	0.17	Run2	SlimPulse	9525.75	182.83	15-Jun-14
17951.00	91.07	179.87	8508.80	9619.60	-9608.08	-470.70	0.24	Run2	SlimPulse	9619.60	182.8	15-Jun-14
18040.00	91.31	179.99	8506.96	9708.47	-9697.06	-470.59	0.30	Run2	SlimPulse	9708.47	182.78	15-Jun-14
18080.00	91.31	179.99	8506.04	9748.42	-9737.05	-470.58	0.01	Run2	Other	9748.42	182.77	15-Jun-14