

Operator:	Pioneer Natural Resources
Well name	University 6-48B No. 102H
North Reference	GRID

TVD Reference	2993.00	Ft
Ground Level	2968.00	Ft
Vertical Section Azimuth	165.88	Degree(s)

Measured Depth Ft	Inclination Degree(s)	Azimuth Degree(s)	Vertical Depth Ft	Northings Local Ft US	Eastings Local Ft US	Vertical Section Ft	Dogleg Rate °/100ft	Tool Code	Comments
0	0.00	60.70	0.00	0.00	0.00	0.00		Tie-in	Tie-in point
25	0.00	60.70	25.00	0.00	0.00	0.00	0.00		Start MWD Surface Surveys
144	0.80	60.70	144.00	0.41	0.72	-0.22	0.67		
229	0.40	134.50	228.99	0.49	1.45	-0.12	0.93		
311	0.40	201.50	310.99	0.02	1.55	0.36	0.54		
402	0.60	191.80	401.99	-0.74	1.34	1.04	0.24		
495	0.40	248.10	494.98	-1.34	0.94	1.53	0.54		
589	1.60	248.20	588.97	-1.95	-0.58	1.75	1.28		
682	2.50	251.20	681.91	-3.08	-3.71	2.08	0.97		
777	2.50	254.80	776.82	-4.29	-7.67	2.29	0.17		
870	3.20	248.60	869.70	-5.77	-12.05	2.66	0.82		
965	3.20	250.00	964.55	-7.65	-17.01	3.27	0.08		
1059	2.90	247.70	1058.42	-9.45	-21.67	3.87	0.34		
1151	2.90	245.60	1150.30	-11.29	-25.94	4.62	0.12		
1245	2.80	253.90	1244.19	-12.91	-30.32	5.13	0.45		
1340	3.00	253.70	1339.07	-14.25	-34.93	5.30	0.21		
1435	3.00	250.50	1433.94	-15.78	-39.66	5.63	0.18		
1529	3.10	247.00	1527.80	-17.59	-44.32	6.25	0.22		
1624	3.00	246.50	1622.67	-19.59	-48.96	7.05	0.11		
1717	3.00	247.00	1715.54	-21.51	-53.43	7.82	0.03		
1811	2.60	247.00	1809.43	-23.30	-57.66	8.53	0.43		
1906	2.40	244.90	1904.34	-24.99	-61.45	9.24	0.23		
1966	2.20	247.70	1964.29	-25.96	-63.65	9.65	0.38		End MWD Surface Surveys
2044	1.89	247.16	2042.24	-27.03	-66.22	10.06	0.40	MWD+IFR1+SAG+MS	Start MWD Run 01
2134	2.72	247.66	2132.17	-28.41	-69.56	10.59	0.92	MWD+IFR1+SAG+MS	
2224	4.22	245.01	2222.00	-30.62	-74.53	11.52	1.68	MWD+IFR1+SAG+MS	
2315	5.96	245.43	2312.64	-34.00	-81.87	13.00	1.92	MWD+IFR1+SAG+MS	
2406	7.52	248.21	2403.00	-38.18	-91.70	14.66	1.75	MWD+IFR1+SAG+MS	

2496	8.93	254.46	2492.08	-42.24	-103.90	15.62	1.85	MWD+IFR1+SAG+MS	
2586	10.22	252.17	2580.82	-46.55	-118.23	16.31	1.50	MWD+IFR1+SAG+MS	
2677	11.51	248.24	2670.19	-52.39	-134.34	18.03	1.63	MWD+IFR1+SAG+MS	
2767	12.73	247.64	2758.18	-59.49	-151.85	20.65	1.37	MWD+IFR1+SAG+MS	
2857	14.10	248.04	2845.72	-67.37	-171.20	23.57	1.52	MWD+IFR1+SAG+MS	
2948	14.25	249.10	2933.95	-75.51	-191.94	26.40	0.33	MWD+IFR1+SAG+MS	
3038	14.18	247.45	3021.20	-83.68	-212.46	29.32	0.46	MWD+IFR1+SAG+MS	
3129	13.88	250.15	3109.49	-91.66	-233.03	32.05	0.79	MWD+IFR1+SAG+MS	
3219	13.59	249.49	3196.91	-99.04	-253.08	34.30	0.37	MWD+IFR1+SAG+MS	
3310	13.00	249.37	3285.47	-106.39	-272.67	36.65	0.65	MWD+IFR1+SAG+MS	
3400	13.65	247.82	3373.05	-113.96	-291.97	39.29	0.82	MWD+IFR1+SAG+MS	
3490	13.54	248.65	3460.53	-121.80	-311.62	42.10	0.25	MWD+IFR1+SAG+MS	
3580	14.36	251.88	3547.88	-129.11	-332.04	44.21	1.26	MWD+IFR1+SAG+MS	
3671	14.46	253.03	3636.01	-135.94	-353.63	45.56	0.33	MWD+IFR1+SAG+MS	
3761	14.12	253.73	3723.23	-142.29	-374.92	46.53	0.43	MWD+IFR1+SAG+MS	
3852	14.98	252.58	3811.31	-148.92	-396.80	47.62	1.00	MWD+IFR1+SAG+MS	
3942	15.32	251.97	3898.18	-156.08	-419.20	49.10	0.41	MWD+IFR1+SAG+MS	
4032	14.85	252.19	3985.08	-163.29	-441.48	50.65	0.52	MWD+IFR1+SAG+MS	
4123	14.38	251.42	4073.14	-170.45	-463.29	52.28	0.56	MWD+IFR1+SAG+MS	
4213	13.96	251.04	4160.40	-177.54	-484.14	54.07	0.48	MWD+IFR1+SAG+MS	
4303	13.44	251.46	4247.84	-184.39	-504.32	55.79	0.59	MWD+IFR1+SAG+MS	
4394	13.15	251.18	4336.40	-191.10	-524.15	57.45	0.32	MWD+IFR1+SAG+MS	
4484	12.81	250.67	4424.10	-197.70	-543.25	59.20	0.41	MWD+IFR1+SAG+MS	
4574	12.71	248.13	4511.88	-204.69	-561.85	61.44	0.63	MWD+IFR1+SAG+MS	
4665	13.29	245.91	4600.55	-212.69	-580.69	64.60	0.84	MWD+IFR1+SAG+MS	
4755	13.08	244.27	4688.18	-221.33	-599.30	68.44	0.48	MWD+IFR1+SAG+MS	
4845	12.34	243.86	4775.97	-229.99	-617.11	72.49	0.83	MWD+IFR1+SAG+MS	
4936	12.19	242.93	4864.90	-238.64	-634.39	76.67	0.27	MWD+IFR1+SAG+MS	
5026	12.65	245.06	4952.79	-247.12	-651.79	80.65	0.72	MWD+IFR1+SAG+MS	
5116	13.27	248.97	5040.50	-254.99	-670.37	83.75	1.19	MWD+IFR1+SAG+MS	
5206	12.96	248.63	5128.15	-262.37	-689.41	86.26	0.35	MWD+IFR1+SAG+MS	
5297	12.79	248.52	5216.86	-269.78	-708.29	88.84	0.20	MWD+IFR1+SAG+MS	
5387	13.57	249.07	5304.49	-277.20	-727.42	91.37	0.88	MWD+IFR1+SAG+MS	
5478	13.81	249.54	5392.91	-284.81	-747.56	93.83	0.29	MWD+IFR1+SAG+MS	
5568	13.40	249.18	5480.38	-292.27	-767.38	96.23	0.46	MWD+IFR1+SAG+MS	
5659	12.44	250.30	5569.07	-299.32	-786.47	98.42	1.09	MWD+IFR1+SAG+MS	

5749	11.94	250.77	5657.04	-305.66	-804.39	100.19	0.57	MWD+IFR1+SAG+MS	
5840	11.42	251.15	5746.16	-311.67	-821.81	101.77	0.58	MWD+IFR1+SAG+MS	
5930	10.88	250.73	5834.46	-317.35	-838.25	103.27	0.61	MWD+IFR1+SAG+MS	
6020	10.19	250.96	5922.94	-322.75	-853.80	104.71	0.77	MWD+IFR1+SAG+MS	
6111	10.10	249.77	6012.52	-328.14	-868.89	106.25	0.25	MWD+IFR1+SAG+MS	
6201	8.25	250.64	6101.37	-333.00	-882.38	107.68	2.06	MWD+IFR1+SAG+MS	
6292	6.19	251.98	6191.64	-336.68	-893.21	108.61	2.27	MWD+IFR1+SAG+MS	
6382	4.52	247.19	6281.24	-339.56	-901.09	109.48	1.92	MWD+IFR1+SAG+MS	
6472	3.43	241.04	6371.03	-342.24	-906.71	110.70	1.30	MWD+IFR1+SAG+MS	
6563	2.50	230.54	6461.91	-344.82	-910.63	112.25	1.17	MWD+IFR1+SAG+MS	
6653	2.51	227.71	6551.82	-347.40	-913.60	114.02	0.14	MWD+IFR1+SAG+MS	
6744	2.30	232.33	6642.74	-349.86	-916.53	115.70	0.32	MWD+IFR1+SAG+MS	
6834	2.20	231.87	6732.67	-352.03	-919.31	117.12	0.12	MWD+IFR1+SAG+MS	
6904	1.71	229.58	6802.63	-353.53	-921.16	118.13	0.71	MWD+IFR1+SAG+MS	End MWD Run 01
7009	1.31	235.75	6907.59	-355.22	-923.34	119.23	0.41	MWD+IFR1+SAG+MS	Start MWD Run 02
7100	0.50	161.36	6998.58	-356.18	-924.07	119.99	1.39	MWD+IFR1+SAG+MS	
7190	1.15	73.26	7088.58	-356.29	-923.08	120.34	1.37	MWD+IFR1+SAG+MS	
7281	1.85	66.04	7179.54	-355.43	-920.87	120.04	0.80	MWD+IFR1+SAG+MS	
7371	1.29	60.91	7269.51	-354.35	-918.66	119.54	0.65	MWD+IFR1+SAG+MS	
7461	1.21	64.39	7359.49	-353.45	-916.92	119.09	0.12	MWD+IFR1+SAG+MS	
7552	0.77	69.44	7450.47	-352.82	-915.48	118.83	0.49	MWD+IFR1+SAG+MS	
7642	0.74	65.38	7540.47	-352.37	-914.39	118.65	0.07	MWD+IFR1+SAG+MS	
7732	0.21	78.35	7630.46	-352.09	-913.70	118.55	0.60	MWD+IFR1+SAG+MS	
7823	0.26	337.11	7721.46	-351.86	-913.62	118.35	0.40	MWD+IFR1+SAG+MS	
7913	0.41	273.31	7811.46	-351.65	-914.02	118.05	0.42	MWD+IFR1+SAG+MS	
8003	0.71	287.59	7901.46	-351.47	-914.87	117.66	0.37	MWD+IFR1+SAG+MS	
8093	0.50	278.54	7991.45	-351.24	-915.79	117.22	0.26	MWD+IFR1+SAG+MS	
8184	0.47	87.30	8082.45	-351.16	-915.81	117.14	1.05	MWD+IFR1+SAG+MS	
8274	0.90	70.90	8172.44	-350.92	-914.78	117.15	0.52	MWD+IFR1+SAG+MS	
8313	0.84	55.41	8211.44	-350.65	-914.26	117.02	0.62	MWD+IFR1+SAG+MS	End MWD Run 02
8404	2.94	170.99	8302.40	-352.58	-913.35	119.11	3.72	MWD+IFR1+SAG+MS	Start MWD Run 03
8494	11.27	176.29	8391.63	-363.65	-912.41	130.08	9.27	MWD+IFR1+SAG+MS	
8585	19.60	163.33	8479.30	-387.19	-907.45	154.12	9.86	MWD+IFR1+SAG+MS	
8675	28.53	164.98	8561.39	-422.48	-897.53	190.76	9.95	MWD+IFR1+SAG+MS	
8765	35.11	163.69	8637.83	-468.13	-884.68	238.17	7.35	MWD+IFR1+SAG+MS	
8856	44.27	163.02	8707.78	-523.74	-868.02	296.16	10.09	MWD+IFR1+SAG+MS	

8946	52.38	161.65	8767.57	-587.73	-847.59	363.20	9.07	MWD+IFR1+SAG+MS	
9037	60.91	162.36	8817.56	-659.96	-824.15	438.96	9.40	MWD+IFR1+SAG+MS	
9127	72.18	166.48	8853.34	-739.37	-802.14	521.35	13.20	MWD+IFR1+SAG+MS	
9218	78.88	172.41	8876.09	-825.91	-786.09	609.19	9.70	MWD+IFR1+SAG+MS	
9308	81.32	168.86	8891.56	-913.37	-771.66	697.52	4.74	MWD+IFR1+SAG+MS	
9398	85.63	164.12	8901.80	-1000.26	-750.76	786.89	7.09	MWD+IFR1+SAG+MS	
9489	90.29	160.85	8905.04	-1086.95	-723.40	877.63	6.25	MWD+IFR1+SAG+MS	
9579	87.45	164.90	8906.81	-1172.92	-696.92	967.47	5.49	MWD+IFR1+SAG+MS	
9670	91.18	166.58	8907.90	-1261.09	-674.51	1058.44	4.50	MWD+IFR1+SAG+MS	
9760	87.98	167.23	8908.56	-1348.73	-654.12	1148.41	3.63	MWD+IFR1+SAG+MS	
9850	88.56	163.30	8911.28	-1435.71	-631.24	1238.35	4.41	MWD+IFR1+SAG+MS	
9941	89.06	165.46	8913.17	-1523.33	-606.74	1329.29	2.43	MWD+IFR1+SAG+MS	
10031	89.52	167.19	8914.29	-1610.77	-585.47	1419.28	1.99	MWD+IFR1+SAG+MS	
10122	89.61	166.65	8914.99	-1699.40	-564.88	1510.26	0.61	MWD+IFR1+SAG+MS	
10212	89.55	166.35	8915.65	-1786.91	-543.87	1600.25	0.33	MWD+IFR1+SAG+MS	
10302	89.76	166.06	8916.19	-1874.32	-522.41	1690.25	0.40	MWD+IFR1+SAG+MS	
10393	90.35	165.96	8916.10	-1962.62	-500.41	1781.25	0.65	MWD+IFR1+SAG+MS	
10483	90.66	166.42	8915.31	-2050.01	-478.93	1871.24	0.61	MWD+IFR1+SAG+MS	
10574	89.58	166.12	8915.12	-2138.41	-457.33	1962.24	1.23	MWD+IFR1+SAG+MS	
10664	89.61	165.02	8915.76	-2225.57	-434.91	2052.23	1.22	MWD+IFR1+SAG+MS	
10754	91.06	164.70	8915.23	-2312.44	-411.41	2142.21	1.65	MWD+IFR1+SAG+MS	
10844	89.92	164.32	8914.47	-2399.17	-387.37	2232.18	1.34	MWD+IFR1+SAG+MS	
10935	89.21	165.11	8915.16	-2486.94	-363.38	2323.16	1.17	MWD+IFR1+SAG+MS	
11025	89.39	165.01	8916.26	-2573.89	-340.17	2413.14	0.23	MWD+IFR1+SAG+MS	
11116	89.55	165.09	8917.10	-2661.81	-316.70	2504.13	0.19	MWD+IFR1+SAG+MS	
11206	90.32	164.76	8917.20	-2748.71	-293.29	2594.12	0.93	MWD+IFR1+SAG+MS	
11296	90.81	165.47	8916.32	-2835.68	-270.17	2684.10	0.96	MWD+IFR1+SAG+MS	
11386	89.92	165.54	8915.75	-2922.82	-247.64	2774.10	0.99	MWD+IFR1+SAG+MS	
11477	90.78	167.19	8915.19	-3011.24	-226.19	2865.09	2.04	MWD+IFR1+SAG+MS	
11567	90.10	160.45	8914.50	-3097.63	-201.12	2954.98	7.52	MWD+IFR1+SAG+MS	
11658	87.82	164.25	8916.15	-3184.31	-173.54	3045.77	4.87	MWD+IFR1+SAG+MS	
11748	92.20	171.28	8916.13	-3272.18	-154.48	3135.64	9.19	MWD+IFR1+SAG+MS	
11839	97.67	167.41	8908.31	-3361.24	-137.74	3226.09	7.35	MWD+IFR1+SAG+MS	End MWD Run 03
11928	92.84	165.62	8900.16	-3447.39	-117.08	3314.68	5.79	MWD+IFR1+SAG+MS	Start MWD Run 04
12018	89.26	167.65	8898.52	-3534.92	-96.29	3404.63	4.57	MWD+IFR1+SAG+MS	
12109	88.21	164.92	8900.52	-3623.29	-74.73	3495.60	3.21	MWD+IFR1+SAG+MS	

12198	89.38	164.94	8902.39	-3709.21	-51.60	3584.57	1.32	MWD+IFR1+SAG+MS	
12289	89.54	164.29	8903.25	-3796.95	-27.46	3675.54	0.73	MWD+IFR1+SAG+MS	
12379	89.20	163.09	8904.24	-3883.32	-2.18	3765.47	1.39	MWD+IFR1+SAG+MS	
12470	88.92	163.35	8905.73	-3970.43	24.08	3856.36	0.42	MWD+IFR1+SAG+MS	
12560	88.37	163.92	8907.86	-4056.76	49.44	3946.26	0.89	MWD+IFR1+SAG+MS	
12650	87.10	165.28	8911.42	-4143.46	73.32	4036.17	2.06	MWD+IFR1+SAG+MS	
12741	84.63	170.43	8917.98	-4232.15	92.42	4126.84	6.26	MWD+IFR1+SAG+MS	
12831	89.91	169.16	8922.26	-4320.59	108.34	4216.49	6.03	MWD+IFR1+SAG+MS	
12922	88.80	167.87	8923.29	-4409.76	126.46	4307.39	1.87	MWD+IFR1+SAG+MS	
13012	88.52	168.81	8925.39	-4497.88	144.64	4397.28	1.10	MWD+IFR1+SAG+MS	
13102	88.95	167.47	8927.38	-4585.93	163.13	4487.18	1.56	MWD+IFR1+SAG+MS	
13193	89.51	165.33	8928.60	-4674.37	184.52	4578.17	2.43	MWD+IFR1+SAG+MS	
13283	86.79	162.17	8931.51	-4760.71	209.68	4668.04	4.63	MWD+IFR1+SAG+MS	
13374	86.64	167.38	8936.72	-4848.34	233.54	4758.84	5.72	MWD+IFR1+SAG+MS	
13464	90.52	170.47	8938.95	-4936.61	250.81	4848.66	5.51	MWD+IFR1+SAG+MS	
13555	89.26	164.99	8939.12	-5025.50	270.14	4939.57	6.18	MWD+IFR1+SAG+MS	
13645	88.86	165.02	8940.59	-5112.42	293.43	5029.55	0.45	MWD+IFR1+SAG+MS	
13736	88.21	164.95	8942.92	-5200.28	317.00	5120.51	0.72	MWD+IFR1+SAG+MS	
13826	90.15	163.82	8944.20	-5286.94	341.23	5210.46	2.50	MWD+IFR1+SAG+MS	
13916	87.29	168.08	8946.21	-5374.20	363.07	5300.41	5.71	MWD+IFR1+SAG+MS	
14007	91.23	165.57	8947.38	-5462.77	383.80	5391.36	5.13	MWD+IFR1+SAG+MS	
14097	89.11	161.78	8947.12	-5549.12	409.08	5481.28	4.83	MWD+IFR1+SAG+MS	
14188	89.23	160.63	8948.44	-5635.26	438.40	5571.96	1.27	MWD+IFR1+SAG+MS	
14278	89.14	161.00	8949.72	-5720.25	467.97	5661.60	0.43	MWD+IFR1+SAG+MS	
14368	88.24	166.24	8951.78	-5806.55	493.33	5751.48	5.91	MWD+IFR1+SAG+MS	
14459	88.61	167.71	8954.27	-5895.17	513.83	5842.42	1.66	MWD+IFR1+SAG+MS	
14549	89.51	166.58	8955.75	-5982.90	533.85	5932.39	1.61	MWD+IFR1+SAG+MS	
14640	89.60	166.36	8956.46	-6071.37	555.14	6023.38	0.26	MWD+IFR1+SAG+MS	
14730	89.23	166.62	8957.38	-6158.88	576.16	6113.37	0.50	MWD+IFR1+SAG+MS	
14820	89.51	165.68	8958.37	-6246.25	597.71	6203.36	1.09	MWD+IFR1+SAG+MS	
14911	90.43	167.63	8958.42	-6334.79	618.72	6294.35	2.37	MWD+IFR1+SAG+MS	
15001	90.15	166.04	8957.96	-6422.42	639.21	6384.33	1.79	MWD+IFR1+SAG+MS	
15092	90.03	166.86	8957.81	-6510.89	660.53	6475.33	0.92	MWD+IFR1+SAG+MS	
15182	90.12	166.93	8957.69	-6598.54	680.93	6565.31	0.13	MWD+IFR1+SAG+MS	
15272	88.98	166.68	8958.39	-6686.16	701.48	6655.29	1.30	MWD+IFR1+SAG+MS	
15363	90.00	166.77	8959.20	-6774.73	722.37	6746.28	1.12	MWD+IFR1+SAG+MS	

15453	89.78	166.26	8959.37	-6862.24	743.36	6836.27	0.62	MWD+IFR1+SAG+MS	
15543	89.97	166.99	8959.56	-6949.80	764.18	6926.27	0.84	MWD+IFR1+SAG+MS	
15634	89.57	166.43	8959.93	-7038.36	785.10	7017.25	0.75	MWD+IFR1+SAG+MS	
15724	89.75	166.50	8960.46	-7125.86	806.16	7107.25	0.22	MWD+IFR1+SAG+MS	
15815	89.29	167.23	8961.22	-7214.48	826.84	7198.23	0.95	MWD+IFR1+SAG+MS	
15905	89.82	166.90	8961.92	-7302.19	846.98	7288.21	0.69	MWD+IFR1+SAG+MS	
15996	89.60	166.88	8962.39	-7390.82	867.63	7379.19	0.24	MWD+IFR1+SAG+MS	
16086	90.09	167.29	8962.63	-7478.54	887.74	7469.17	0.71	MWD+IFR1+SAG+MS	
16176	91.29	166.07	8961.54	-7566.11	908.47	7559.15	1.90	MWD+IFR1+SAG+MS	
16267	90.52	164.35	8960.10	-7654.08	931.70	7650.13	2.07	MWD+IFR1+SAG+MS	
16357	90.28	165.50	8959.47	-7740.97	955.12	7740.12	1.31	MWD+IFR1+SAG+MS	
16447	89.66	164.11	8959.52	-7827.83	978.71	7830.10	1.68	MWD+IFR1+SAG+MS	
16538	89.29	164.67	8960.35	-7915.47	1003.19	7921.06	0.74	MWD+IFR1+SAG+MS	
16628	89.88	167.08	8961.00	-8002.74	1025.14	8011.05	2.75	MWD+IFR1+SAG+MS	
16719	90.03	165.42	8961.07	-8091.13	1046.77	8102.05	1.83	MWD+IFR1+SAG+MS	
16809	88.98	165.24	8961.85	-8178.19	1069.56	8192.04	1.18	MWD+IFR1+SAG+MS	
16899	88.49	164.16	8963.83	-8264.97	1093.31	8282.00	1.32	MWD+IFR1+SAG+MS	
16990	90.15	165.96	8964.91	-8352.88	1116.76	8372.97	2.70	MWD+IFR1+SAG+MS	
17080	90.77	165.73	8964.18	-8440.15	1138.77	8462.97	0.73	MWD+IFR1+SAG+MS	
17170	91.36	165.44	8962.52	-8527.30	1161.17	8552.95	0.72	MWD+IFR1+SAG+MS	
17260	90.46	165.08	8961.09	-8614.33	1184.07	8642.94	1.07	MWD+IFR1+SAG+MS	
17351	90.15	165.42	8960.60	-8702.33	1207.24	8733.93	0.50	MWD+IFR1+SAG+MS	
17441	90.52	167.22	8960.07	-8789.77	1228.52	8823.92	2.05	MWD+IFR1+SAG+MS	
17531	89.48	163.68	8960.07	-8876.86	1251.13	8913.90	4.11	MWD+IFR1+SAG+MS	
17621	89.26	165.76	8961.06	-8963.67	1274.84	9003.87	2.33	MWD+IFR1+SAG+MS	
17711	90.62	165.65	8961.15	-9050.88	1297.06	9093.87	1.51	MWD+IFR1+SAG+MS	
17801	90.71	164.62	8960.11	-9137.87	1320.15	9183.86	1.16	MWD+IFR1+SAG+MS	
17892	90.18	167.59	8959.40	-9226.19	1342.00	9274.84	3.32	MWD+IFR1+SAG+MS	
17982	91.14	166.54	8958.36	-9313.90	1362.15	9364.81	1.58	MWD+IFR1+SAG+MS	
18072	89.41	167.28	8957.93	-9401.55	1382.54	9454.79	2.09	MWD+IFR1+SAG+MS	
18163	89.69	166.04	8958.64	-9490.09	1403.53	9545.78	1.39	MWD+IFR1+SAG+MS	
18253	89.75	164.98	8959.07	-9577.23	1426.05	9635.78	1.18	MWD+IFR1+SAG+MS	
18343	89.66	166.42	8959.53	-9664.43	1448.27	9725.77	1.60	MWD+IFR1+SAG+MS	
18433	89.94	167.07	8959.85	-9752.04	1468.91	9815.76	0.79	MWD+IFR1+SAG+MS	
18523	89.78	167.05	8960.07	-9839.75	1489.05	9905.74	0.17	MWD+IFR1+SAG+MS	
18614	89.48	167.81	8960.65	-9928.57	1508.85	9996.71	0.90	MWD+IFR1+SAG+MS	

18704	90.22	167.07	8960.90	-10016.41	1528.42	10086.67	1.16	MWD+IFR1+SAG+MS	
18795	90.09	167.03	8960.65	-10105.10	1548.81	10177.65	0.14	MWD+IFR1+SAG+MS	
18885	89.78	166.91	8960.75	-10192.78	1569.10	10267.64	0.37	MWD+IFR1+SAG+MS	
18975	89.88	166.70	8961.01	-10280.40	1589.65	10357.62	0.26	MWD+IFR1+SAG+MS	
19066	90.49	166.13	8960.72	-10368.86	1611.02	10448.62	0.92	MWD+IFR1+SAG+MS	
19156	90.03	165.83	8960.31	-10456.17	1632.83	10538.62	0.61	MWD+IFR1+SAG+MS	
19247	90.15	165.97	8960.16	-10544.43	1655.00	10629.62	0.21	MWD+IFR1+SAG+MS	
19337	90.55	165.83	8959.61	-10631.72	1676.93	10719.61	0.47	MWD+IFR1+SAG+MS	
19427	90.06	166.26	8959.12	-10719.06	1698.63	10809.61	0.73	MWD+IFR1+SAG+MS	
19518	90.22	165.91	8958.90	-10807.39	1720.51	10900.61	0.42	MWD+IFR1+SAG+MS	
19565	90.22	165.91	8958.72	-10852.98	1731.95	10947.61	0.00	MWD+IFR1+SAG+MS	
19590	90.22	165.91	8958.63	-10877.22	1738.03	10972.61	0.00	MWD+IFR1+SAG+MS	End MWD Run 04