



Company: Continental Resources  
 Well: Buchner 2-2H  
 Location: Continental US  
 Rig: SEC-02-T07N-R60W

Job Number: 5311929  
 Magnetic Decl.: 8.32  
 Grid Corr.: 0.00  
 Total Grid Corr.: 8.32

Calculation Method: Minimum Curvature  
 Proposed Azimuth: 179.98  
 Depth Reference: Rig Floor  
 Tie Into:

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Tie In Coordinates														
Gyro	100	0.19	320.72	N 39.3 W	0	99.9998186	-0.12772	0.12768 N	-0.10441 E					
Gyro	200	0.08	153.78	S 26.2 E	100	200.00	-0.19	0.19 N	-0.18 E	0.26	-42.71	0.189	0.189	-39.274
Gyro	300	0.17	343.29	N 16.7 W	100	300.00	-0.26	0.26 N	-0.19 E	0.32	-34.90	0.25	0.08	-170.50
Gyro	400	0.18	308.81	N 51.2 W	100	400.00	-0.50	0.50 N	-0.35 E	0.61	-34.69	0.10	0.01	-34.48
Gyro	500	0.14	279.40	N 80.6 W	100	500.00	-0.62	0.62 N	-0.59 E	0.86	-43.44	0.09	-0.03	-29.42
Gyro	600	0.18	327.03	N 33.0 W	100	600.00	-0.77	0.77 N	-0.80 E	1.11	-45.75	0.13	0.03	47.63
Gyro	670	0.18	245.69	S 65.7 W	70	670.00	-0.82	0.81 N	-0.96 E	1.26	-49.27	0.33	0.00	-116.20
MWD	728	0.29	353.22	N 6.8 W	58	728.00	-0.92	0.92 N	-1.06 E	1.40	-48.60	0.66	0.19	185.40
MWD	790	0.08	353.81	N 6.2 W	62	790.00	-1.12	1.12 N	-1.08 E	1.56	-43.72	0.34	-0.34	0.95
MWD	881	0.15	32.21	N 32.2 E	91	881.00	-1.29	1.29 N	-1.02 E	1.64	-38.39	0.11	0.08	42.20
MWD	973	0.17	11.79	N 11.8 E	92	973.00	-1.52	1.52 N	-0.93 E	1.78	-31.43	0.07	0.02	-22.20
MWD	1064	0.26	38.55	N 38.6 E	91	1064.00	-1.82	1.82 N	-0.77 E	1.97	-23.16	0.15	0.10	29.41
MWD	1155	0.29	30.29	N 30.3 E	91	1155.00	-2.18	2.18 N	-0.53 E	2.24	-13.80	0.05	0.03	-9.08
MWD	1247	0.31	4.60	N 4.6 E	92	1246.99	-2.62	2.62 N	-0.39 E	2.66	-8.63	0.15	0.02	-27.92
MWD	1339	0.27	25.63	N 25.6 E	92	1338.99	-3.07	3.07 N	-0.28 E	3.08	-5.32	0.12	-0.04	22.86
MWD	1430	0.40	22.92	N 22.9 E	91	1429.99	-3.55	3.55 N	-0.06 E	3.55	-1.13	0.14	0.14	-2.98
MWD	1523	0.49	27.54	N 27.5 E	93	1522.99	-4.21	4.21 N	0.25 E	4.21	3.25	0.10	0.10	4.97
MWD	1618	0.52	56.76	N 56.8 E	95	1617.99	-4.80	4.80 N	0.80 E	4.87	9.29	0.27	0.03	30.76
MWD	1712	0.31	18.15	N 18.2 E	94	1711.98	-5.28	5.28 N	1.23 E	5.42	13.02	0.36	-0.22	-41.07
MWD	1806	0.17	38.01	N 38.0 E	94	1805.98	-5.63	5.63 N	1.40 E	5.80	13.83	0.17	-0.15	21.13
MWD	1900	0.24	73.51	N 73.5 E	94	1899.98	-5.79	5.80 N	1.67 E	6.03	15.98	0.15	0.07	37.77
MWD	1993	0.32	279.30	N 80.7 W	93	1992.98	-5.89	5.89 N	1.60 E	6.11	15.10	0.59	0.09	-165.82
MWD	2087	0.22	291.98	N 68.0 W	94	2086.98	-6.00	6.00 N	1.18 E	6.12	10.98	0.12	-0.11	13.49
MWD	2180	0.35	2.86	N 2.9 E	93	2179.98	-6.35	6.35 N	1.02 E	6.43	9.07	0.37	0.14	76.21
MWD	2274	0.46	17.18	N 17.2 E	94	2273.98	-7.00	7.00 N	1.15 E	7.09	9.25	0.16	0.12	15.23
MWD	2368	0.45	24.65	N 24.7 E	94	2367.97	-7.70	7.70 N	1.42 E	7.83	10.35	0.06	-0.01	7.95
MWD	2461	0.44	24.93	N 24.9 E	93	2460.97	-8.35	8.35 N	1.72 E	8.53	11.55	0.01	-0.01	0.30
MWD	2555	0.59	25.06	N 25.1 E	94	2554.97	-9.12	9.12 N	2.08 E	9.35	12.76	0.16	0.16	0.14
MWD	2648	0.26	51.91	N 51.9 E	93	2647.96	-9.68	9.68 N	2.44 E	9.99	14.11	0.41	-0.35	28.87
MWD	2742	0.43	78.93	N 78.9 E	94	2741.96	-9.88	9.88 N	2.96 E	10.31	16.60	0.25	0.18	28.74
MWD	2835	0.23	43.07	N 43.1 E	93	2834.96	-10.08	10.08 N	3.43 E	10.65	18.71	0.30	-0.22	-38.56
MWD	2929	0.26	37.65	N 37.7 E	94	2928.96	-10.39	10.39 N	3.69 E	11.03	19.47	0.04	0.03	-5.77
MWD	3023	0.20	265.03	S 85.0 W	94	3022.96	-10.54	10.55 N	3.65 E	11.16	19.05	0.45	-0.06	-141.08
MWD	3115	0.59	320.95	N 39.1 W	92	3114.96	-10.90	10.90 N	3.20 E	11.36	16.28	0.55	0.42	60.78



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 Total Grid Corr.: 8.32  
 Calculation Method: Minimum Curvature  
 Proposed Azimuth: 179.98  
 Depth Reference: Rig Floor  
 Tie Info:

Survey Tool Type	Survey Depth (ft)	Inclina-tion (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	E/W (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100)	Build Rate (d/100)	Walk Rate (d/100)
MWD	3209	0.19	290.56	N 69.4 W	94	3208.96	-11.33	11.33 N	2.75 E	11.66	13.56	0.46	-0.43	-32.33
MWD	3303	0.72	236.67	S 56.7 W	94	3302.95	-11.06	11.06 N	2.11 E	11.26	10.73	0.67	0.56	-57.33
MWD	3398	0.30	249.87	S 69.9 W	95	3397.95	-10.65	10.65 N	1.37 E	10.73	7.30	0.46	-0.44	13.89
MWD	3492	0.24	190.22	S 10.2 W	94	3491.95	-10.37	10.37 N	1.11 E	10.43	6.05	0.29	-0.06	-63.46
MWD	3586	0.17	287.29	N 72.7 W	94	3585.95	-10.22	10.22 N	0.94 E	10.26	5.20	0.33	-0.07	103.27
MWD	3678	0.09	252.23	S 72.2 W	92	3677.95	-10.23	10.23 N	0.74 E	10.26	4.09	0.12	-0.09	-38.11
MWD	3772	0.18	140.35	S 39.7 E	94	3771.95	-10.10	10.10 N	0.76 E	10.13	4.28	0.24	0.10	-119.02
MWD	3866	0.15	118.22	S 61.8 E	94	3865.95	-9.93	9.93 N	0.97 E	9.97	5.51	0.07	-0.03	23.54
MWD	3961	0.09	93.56	S 86.4 E	95	3960.95	-9.86	9.86 N	1.15 E	9.93	6.60	0.08	-0.06	-25.96
MWD	4055	0.09	319.91	N 40.1 W	94	4054.95	-9.91	9.91 N	1.18 E	9.98	6.72	0.18	0.00	-142.18
MWD	4148	0.37	168.76	S 11.2 E	93	4147.95	-9.68	9.68 N	1.19 E	9.75	6.95	0.48	0.30	-162.53
MWD	4243	0.34	138.95	S 41.1 E	95	4242.94	-9.16	9.16 N	1.43 E	9.27	8.83	0.19	-0.03	31.38
MWD	4337	0.37	53.72	N 53.7 E	94	4336.94	-9.13	9.13 N	1.86 E	9.32	11.45	0.51	0.03	-90.67
MWD	4430	0.33	12.65	N 12.7 E	93	4429.94	-9.57	9.57 N	2.16 E	9.81	12.66	0.27	-0.04	-44.16
MWD	4525	0.70	29.66	N 29.7 E	95	4524.94	-10.34	10.34 N	2.51 E	10.64	13.58	0.42	0.39	17.91
MWD	4618	1.13	25.04	N 25.0 E	93	4617.93	-11.67	11.67 N	3.18 E	12.09	15.18	0.47	0.46	-4.97
MWD	4712	1.76	26.59	N 26.6 E	94	4711.89	-13.80	13.80 N	4.22 E	14.43	16.95	0.67	0.67	1.65
MWD	4806	2.00	9.70	N 9.7 E	94	4805.84	-16.70	16.70 N	5.14 E	17.48	17.06	0.64	0.26	-17.97
MWD	4898	1.55	321.81	N 38.2 W	92	4897.81	-19.26	19.27 N	4.64 E	19.82	13.51	1.63	-0.49	-52.05
MWD	4991	0.95	310.06	N 49.9 W	93	4990.78	-20.75	20.75 N	3.27 E	21.01	8.94	0.70	-0.65	-12.63
MWD	5085	0.39	228.06	S 48.1 W	94	5084.78	-21.04	21.04 N	2.44 E	21.18	6.59	1.04	-0.60	-87.23
MWD	5179	0.35	201.39	S 21.4 W	94	5178.78	-20.56	20.56 N	2.10 E	20.66	5.79	0.19	-0.04	28.37
MWD	5273	0.26	98.14	S 81.9 E	94	5272.77	-20.26	20.26 N	2.20 E	20.38	6.18	0.51	-0.10	-109.84
MWD	5366	0.42	156.98	S 23.0 E	93	5365.77	-19.91	19.92 N	2.54 E	20.08	7.25	0.39	0.17	63.27
MWD	5461	0.69	136.42	S 43.6 E	95	5460.77	-19.18	19.18 N	3.07 E	19.43	9.08	0.35	0.28	-21.64
MWD	5554	0.80	119.53	S 60.5 E	93	5553.76	-18.45	18.46 N	4.03 E	18.89	12.27	0.26	0.12	-18.16
MWD	5595	0.82	101.63	S 78.4 E	41	5594.76	-18.25	18.26 N	4.56 E	18.82	14.00	0.62	0.05	-43.66
MWD	5610	0.84	112.35	S 67.7 E	15	5609.76	-18.19	18.19 N	4.77 E	18.81	14.65	1.04	0.13	71.47
MWD	5630	0.96	123.70	S 56.3 E	20	5629.75	-18.04	18.04 N	5.04 E	18.73	15.58	1.07	0.60	56.75
MWD	5661	2.34	155.93	S 24.1 E	31	5660.74	-17.32	17.32 N	5.52 E	18.18	17.63	5.20	4.45	103.97
MWD	5693	5.82	172.02	S 8.0 E	32	5692.65	-15.11	15.12 N	6.01 E	16.27	21.64	11.34	10.87	50.28
MWD	5724	9.99	176.15	S 3.8 E	31	5723.35	-10.87	10.88 N	6.41 E	12.62	30.44	13.57	13.45	13.32
MWD	5755	13.72	176.19	S 3.8 E	31	5753.69	-4.52	4.52 N	6.83 E	8.19	56.38	12.03	12.03	0.13
MWD	5786	16.59	178.11	S 1.9 E	31	5783.61	3.57	3.57 N	7.22 E	8.06	-63.77	9.40	9.26	6.19
MWD	5817	18.70	179.31	S 0.7 E	31	5813.15	12.97	-12.96 N	7.43 E	14.94	-29.82	6.91	6.81	3.87



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 Total Grid Corr.: 8.32  
 Calculation Method: Minimum Curvature  
 Proposed Azimuth: 179.98  
 Depth Reference: Rig Floor  
 Tie Into:

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100)	Build Rate (d/100)	Walk Rate (d/100)		
								N/S (ft)	E/W (ft)							
MWD	5848	20.73	180.43	S 0.4 W	31	5842.33	23.42	-23.42	N	7.45	E	24.58	-17.64	6.66	6.55	3.61
MWD	5880	23.43	181.03	S 1.0 W	32	5871.98	35.45	-35.45	N	7.29	E	36.19	-11.62	8.47	8.44	1.87
MWD	5909	26.00	180.44	S 0.4 W	29	5898.32	47.57	-47.57	N	7.14	E	48.10	-8.53	8.90	8.86	-2.03
MWD	5940	28.91	180.50	S 0.5 W	31	5925.82	61.86	-61.86	N	7.02	E	62.26	-6.47	9.39	9.39	0.19
MWD	5972	31.45	181.00	S 1.0 W	32	5953.49	77.95	-77.94	N	6.81	E	78.24	-4.99	7.98	7.94	1.56
MWD	6003	33.91	180.82	S 0.8 W	31	5979.58	94.68	-94.68	N	6.54	E	94.91	-3.95	7.94	7.94	-0.58
MWD	6034	36.02	181.03	S 1.0 W	31	6004.98	112.44	-112.44	N	6.26	E	112.62	-3.18	6.82	6.81	0.68
MWD	6065	38.92	180.21	S 0.2 W	31	6029.58	131.30	-131.30	N	6.06	E	131.44	-2.64	9.49	9.35	-2.65
MWD	6097	42.44	179.33	S 0.7 E	32	6053.84	152.15	-152.15	N	6.15	E	152.28	-2.31	11.14	11.00	-2.75
MWD	6128	45.78	179.69	S 0.3 E	31	6076.10	173.73	-173.72	N	6.33	E	173.84	-2.08	10.80	10.77	1.16
MWD	6159	49.56	179.40	S 0.6 E	31	6096.97	196.64	-196.64	N	6.51	E	196.75	-1.89	12.21	12.19	-0.94
MWD	6190	52.23	179.49	S 0.5 E	31	6116.52	220.69	-220.69	N	6.74	E	220.79	-1.75	8.62	8.61	0.29
MWD	6221	54.40	180.10	S 0.1 W	31	6135.04	245.55	-245.55	N	6.83	E	245.64	-1.59	7.18	7.00	1.97
MWD	6252	56.34	181.51	S 1.5 W	31	6152.66	271.05	-271.05	N	6.47	E	271.13	-1.37	7.29	6.26	4.55
MWD	6284	58.55	181.78	S 1.8 W	32	6169.88	298.01	-298.01	N	5.69	E	298.06	-1.09	6.94	6.91	0.84
MWD	6316	61.33	181.73	S 1.7 W	32	6185.90	325.69	-325.69	N	4.85	E	325.73	-0.85	8.69	8.69	-0.16
MWD	6347	64.31	181.12	S 1.1 W	31	6200.06	353.26	-353.26	N	4.16	E	353.28	-0.67	9.77	9.61	-1.97
MWD	6378	67.41	180.40	S 0.4 W	31	6212.74	381.54	-381.54	N	3.79	E	381.56	-0.57	10.22	10.00	-2.32
MWD	6409	69.96	180.37	S 0.4 W	31	6224.01	410.42	-410.42	N	3.60	E	410.43	-0.50	8.23	8.23	-0.10
MWD	6441	71.07	180.68	S 0.7 W	32	6234.68	440.58	-440.58	N	3.32	E	440.59	-0.43	3.59	3.47	0.97
MWD	6472	72.99	180.67	S 0.7 W	31	6244.24	470.07	-470.07	N	2.97	E	470.07	-0.36	6.19	6.19	-0.03
MWD	6503	75.67	181.60	S 1.6 W	31	6252.62	499.90	-499.90	N	2.38	E	499.91	-0.27	9.11	8.65	3.00
MWD	6535	79.10	181.13	S 1.1 W	32	6259.60	531.12	-531.12	N	1.64	E	531.12	-0.18	10.81	10.72	-1.47
MWD	6566	82.49	181.14	S 1.1 W	31	6264.56	561.71	-561.71	N	1.03	E	561.71	-0.10	10.94	10.94	0.03
MWD	6597	84.95	181.47	S 1.5 W	31	6267.95	592.51	-592.51	N	0.33	E	592.51	-0.03	8.01	7.94	1.06
MWD	6620	85.45	181.91	S 1.9 W	23	6269.88	615.42	-615.42	N	-0.35	E	615.42	0.03	2.89	2.17	1.91
MWD	6690	88.40	180.55	S 0.6 W	70	6273.63	685.29	-685.29	N	-1.85	E	685.30	0.16	4.64	4.21	1.94
MWD	6754	88.67	178.82	S 1.2 E	64	6275.27	749.27	-749.27	N	-1.49	E	749.27	0.11	2.73	0.42	-2.70
MWD	6848	89.11	182.56	S 2.6 W	94	6277.09	843.23	-843.23	N	-2.63	E	843.23	0.18	4.01	0.47	3.98
MWD	6944	90.03	179.78	S 0.2 E	96	6277.81	939.19	-939.20	N	-4.59	E	939.21	0.28	3.05	0.96	-2.90
MWD	7039	90.15	177.89	S 2.1 E	95	6277.66	1034.17	-1034.17	N	-2.66	E	1034.18	0.15	1.99	0.13	-1.99
MWD	7134	90.03	180.87	S 0.9 W	95	6277.51	1129.15	-1129.16	N	-1.63	E	1129.16	0.08	3.14	-0.13	3.14
MWD	7229	90.64	181.17	S 1.2 W	95	6276.96	1224.14	-1224.14	N	-3.32	E	1224.14	0.16	0.72	0.64	0.32
MWD	7324	89.66	179.91	S 0.1 E	95	6276.71	1319.13	-1319.13	N	-4.21	E	1319.14	0.18	1.68	-1.03	-1.33
MWD	7420	91.13	180.03	S 0.0 W	96	6276.05	1415.12	-1415.13	N	-4.16	E	1415.13	0.17	1.54	1.53	0.12



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MWD	7515	90.92	180.26	S 0.3 W	95	6274.35	1510.11	-1510.11 N	-4.40 E	1510.12	0.17	0.33	-0.22	0.24
MWD	7609	89.72	179.58	S 0.4 E	94	6273.82	1604.10	-1604.11 N	-4.27 E	1604.11	0.16	1.47	-1.28	-0.72
MWD	7704	90.58	179.37	S 0.6 E	95	6273.57	1699.10	-1699.10 N	-3.40 E	1699.10	0.11	0.93	0.91	-0.22
MWD	7800	90.21	179.02	S 1.0 E	96	6272.91	1795.09	-1795.09 N	-2.05 E	1795.09	0.07	0.53	-0.39	-0.36
MWD	7896	89.63	179.81	S 0.2 E	96	6273.05	1891.08	-1891.08 N	-1.07 E	1891.08	0.03	1.02	-0.60	0.82
MWD	7990	88.70	180.25	S 0.3 W	94	6274.42	1985.07	-1985.07 N	-1.12 E	1985.07	0.03	1.09	-0.99	0.47
MWD	8085	89.04	179.47	S 0.5 E	95	6276.29	2080.05	-2080.05 N	-0.89 E	2080.05	0.02	0.90	0.36	-0.82
MWD	8181	89.20	180.30	S 0.3 W	96	6277.76	2176.04	-2176.04 N	-0.70 E	2176.04	0.02	0.88	0.17	0.86
MWD	8274	87.76	180.80	S 0.8 W	93	6280.23	2269.00	-2269.00 N	-1.59 E	2269.00	0.04	1.64	-1.55	0.54
MWD	8370	88.34	180.67	S 0.7 W	96	6283.50	2364.93	-2364.94 N	-2.82 E	2364.94	0.07	0.62	0.60	-0.14
MWD	8465	89.20	180.77	S 0.8 W	95	6285.54	2459.90	-2459.91 N	-4.01 E	2459.91	0.09	0.91	0.91	0.11
MWD	8561	90.70	180.91	S 0.9 W	96	6285.62	2555.89	-2555.89 N	-5.42 E	2555.90	0.12	1.57	1.56	0.15
MWD	8658	89.96	181.21	S 1.2 W	97	6285.06	2652.87	-2652.87 N	-7.22 E	2652.88	0.16	0.82	-0.76	0.31
MWD	8751	90.12	180.84	S 0.8 W	93	6285.00	2745.85	-2745.86 N	-8.88 E	2745.87	0.19	0.43	0.17	-0.40
MWD	8846	89.07	181.00	S 1.0 W	95	6285.67	2840.84	-2840.84 N	-10.40 E	2840.86	0.21	1.12	-1.11	0.17
MWD	8942	87.87	181.28	S 1.3 W	96	6288.23	2936.78	-2936.79 N	-12.31 E	2936.81	0.24	1.28	-1.25	0.29
MWD	9038	88.43	180.82	S 0.8 W	96	6291.33	3032.72	-3032.72 N	-14.07 E	3032.75	0.27	0.75	0.58	-0.48
MWD	9133	89.90	180.74	S 0.7 W	95	6292.71	3127.69	-3127.70 N	-15.37 E	3127.74	0.28	1.55	1.55	-0.08
MWD	9228	90.27	180.37	S 0.4 W	95	6292.57	3222.69	-3222.69 N	-16.29 E	3222.73	0.29	0.55	0.39	-0.39
MWD	9323	90.58	180.82	S 0.8 W	95	6291.87	3317.68	-3317.69 N	-17.27 E	3317.73	0.30	0.58	0.33	0.47
MWD	9417	92.06	182.48	S 2.5 W	94	6289.70	3411.61	-3411.62 N	-19.98 E	3411.67	0.34	2.37	1.57	1.77
MWD	9512	90.40	181.07	S 1.1 W	95	6287.66	3506.53	-3506.54 N	-22.92 E	3506.62	0.37	2.29	1.75	-1.48
MWD	9608	89.75	178.09	S 1.9 E	96	6287.54	3602.52	-3602.53 N	-22.21 E	3602.60	0.35	3.18	-0.68	-3.10
MWD	9702	90.43	179.32	S 0.7 E	94	6287.39	3696.50	-3696.50 N	-20.09 E	3696.56	0.31	1.50	0.72	1.31
MWD	9796	90.79	180.45	S 0.4 W	94	6286.39	3790.49	-3790.50 N	-19.90 E	3790.55	0.30	1.26	0.38	1.20
MWD	9890	88.53	179.05	S 0.9 E	94	6286.95	3884.48	-3884.48 N	-19.49 E	3884.53	0.29	2.83	-2.40	-1.49
MWD	9986	88.64	179.29	S 0.7 E	96	6289.32	3980.44	-3980.44 N	-18.10 E	3980.49	0.26	0.27	0.11	0.25
MWD	10080	89.19	179.42	S 0.6 E	94	6291.10	4074.42	-4074.42 N	-17.04 E	4074.46	0.24	0.60	0.59	0.14
MWD	10175	87.41	178.94	S 1.1 E	95	6293.92	4169.36	-4169.37 N	-15.68 E	4169.40	0.22	1.94	-1.87	-0.51
MWD	10269	88.12	178.85	S 1.2 E	94	6297.58	4263.30	-4263.30 N	-13.85 E	4263.33	0.19	0.76	0.76	-0.10
MWD	10365	88.09	178.77	S 1.2 E	96	6300.76	4359.23	-4359.23 N	-11.86 E	4359.25	0.16	0.09	-0.03	-0.08
MWD	10459	90.18	178.14	S 1.9 E	94	6302.18	4453.18	-4453.18 N	-9.32 E	4453.19	0.12	2.32	2.22	-0.67
MWD	10553	91.32	177.15	S 2.8 E	94	6300.95	4547.09	-4547.09 N	-5.46 E	4547.09	0.07	1.61	1.21	-1.05
MWD	10649	92.13	177.27	S 2.7 E	96	6298.06	4642.93	-4642.93 N	-0.79 E	4642.93	0.01	0.85	0.84	0.12
MWD	10744	90.73	178.28	S 1.7 E	95	6295.68	4737.83	-4737.83 N	2.90 E	4737.83	-0.03	1.82	-1.47	1.06

