

COMPANY: Tap Rock Operating
 PROJECT: Eddy County, New Mexico (NAD 83)
 SITE: Zeus Unit 24S33E0909
 WELL: Zeus Unit 24S33E0909 188H
 MAP SYSTE US State Plane 1983
 MAP ZONE New Mexico Eastern Zone
 NORTH REF Grid
 KB-MSL: 3639
 GLE: 3614

NOV 16 2018

WELLBORE Wellbore #1
 DESIGN: Surveys
 VS AZI: 359.59

RECEIVED

SURVEY TOOL PROGRAM:
 H 198.00 - 14800.00 HT MWD : MWD

MD	INC	AZI	Course Length	TVD	Subsea Depth	Local N/S	Local E/W	Map Northing
0	0	0	0	0	3639	0	0	447262.7
198	0.6	179.6	198	198	3441	-1.04	0.01	447261.7
321	0.9	177.1	123	320.99	3318.01	-2.65	0.06	447260.1
412	0.5	196.7	91	411.98	3227.02	-3.74	-0.02	447259
503	1.9	202.5	91	502.96	3136.04	-5.51	-0.71	447257.2
594	2.6	205.4	91	593.89	3045.11	-8.77	-2.17	447254
685	3.4	201.5	91	684.76	2954.24	-13.15	-4.05	447249.6
778	3	194.8	93	777.62	2861.38	-18.07	-5.68	447244.7
869	2.9	194.5	91	868.5	2770.5	-22.6	-6.86	447240.1
961	3	173.2	92	960.38	2678.62	-27.24	-7.16	447235.5
1052	3	174.2	91	1051.25	2587.75	-31.97	-6.64	447230.8
1143	2.7	174.9	91	1142.14	2496.86	-36.48	-6.21	447226.3
1238	2.7	170.1	95	1237.03	2401.97	-40.91	-5.62	447221.8
1287	2.8	177.4	49	1285.98	2353.02	-43.24	-5.37	447219.5
1366	2.7	176.6	79	1364.89	2274.11	-47.03	-5.17	447215.7
1427	2.6	178.6	61	1425.82	2213.18	-49.85	-5.05	447212.9
1522	2.1	169.2	95	1520.74	2118.26	-53.71	-4.67	447209
1616	2.8	186.7	94	1614.66	2024.34	-57.68	-4.62	447205.1
1711	3.3	187.2	95	1709.52	1929.48	-62.7	-5.23	447200
1806	3	186.1	95	1804.38	1834.62	-67.88	-5.84	447194.9
1900	2.6	182	94	1898.26	1740.74	-72.46	-6.18	447190.3
1995	2.2	182.9	95	1993.18	1645.82	-76.44	-6.34	447186.3
2090	3.3	188.1	95	2088.07	1550.93	-80.96	-6.82	447181.8
2184	3.8	193.8	94	2181.89	1457.11	-86.67	-7.95	447176.1
2279	3.5	195.4	95	2276.7	1362.3	-92.52	-9.47	447170.2
2374	3.1	195.8	95	2371.54	1267.46	-97.79	-10.94	447165
2468	2.9	194.9	94	2465.41	1173.59	-102.53	-12.24	447160.2

2563	2.6	196.3	95	2560.3	1078.7	-106.92	-13.46	447155.8
2657	2.2	193	94	2654.22	984.78	-110.73	-14.47	447152
2752	2.7	186.1	95	2749.13	889.87	-114.73	-15.11	447148
2846	3	174.8	94	2843.02	795.98	-119.38	-15.13	447143.4
2941	2.5	173.7	95	2937.91	701.09	-123.91	-14.67	447138.8
3035	2	170.3	94	3031.83	607.17	-127.57	-14.17	447135.2
3129	2.7	176.7	94	3125.75	513.25	-131.4	-13.77	447131.3
3224	3.4	182.3	95	3220.62	418.38	-136.44	-13.75	447126.3
3319	2.9	181.7	95	3315.48	323.52	-141.66	-13.94	447121.1
3413	2.5	176	94	3409.37	229.63	-146.08	-13.86	447116.7
3508	3	182.3	95	3504.26	134.74	-150.63	-13.82	447112.1
3602	3.7	186.7	94	3598.1	40.9	-156.1	-14.27	447106.6
3696	3.3	187.9	94	3691.93	-52.93	-161.8	-15	447100.9
3791	2.7	188.4	95	3786.79	-147.79	-166.72	-15.7	447096
3885	2.5	188.1	94	3880.7	-241.7	-170.94	-16.31	447091.8
3980	2.3	188.3	95	3975.61	-336.61	-174.88	-16.88	447087.9
4074	3.1	193.3	94	4069.51	-430.51	-179.22	-17.74	447083.5
4168	3.6	195.9	94	4163.35	-524.35	-184.53	-19.13	447078.2
4263	3	192.1	95	4258.19	-619.19	-189.83	-20.47	447072.9
4358	2.4	191.4	95	4353.08	-714.08	-194.21	-21.38	447068.5
4452	2.9	182.2	94	4446.98	-807.98	-198.51	-21.86	447064.2
4547	3.7	172.9	95	4541.83	-902.83	-203.96	-21.58	447058.8
4641	3.5	165.5	94	4635.64	-996.64	-209.74	-20.48	447053
4736	3.3	159.9	95	4730.47	-1091.47	-215.12	-18.82	447047.6
4831	3.3	162.3	95	4825.32	-1186.32	-220.29	-17.05	447042.5
4925	3.7	161.1	94	4919.14	-1280.14	-225.74	-15.24	447037
5020	3.7	176.7	95	5013.95	-1374.95	-231.7	-14.07	447031
5114	3.3	184.1	94	5107.77	-1468.77	-237.43	-14.09	447025.3
5185	2.9	179.2	71	5178.67	-1539.67	-241.26	-14.21	447021.5
5218	2.8	182.6	33	5211.63	-1572.63	-242.9	-14.24	447019.8
5312	2.7	173.7	94	5305.52	-1666.52	-247.39	-14.1	447015.3
5407	4.2	186.7	95	5400.35	-1761.35	-253.07	-14.26	447009.7
5501	4.5	193	94	5494.07	-1855.07	-260.09	-15.49	447002.7
5596	4.4	196.1	95	5588.79	-1949.79	-267.22	-17.34	446995.5
5690	4.6	193.5	94	5682.5	-2043.5	-274.35	-19.22	446988.4
5785	4.3	199.1	95	5777.21	-2138.21	-281.42	-21.27	446981.3
5879	4.6	198.1	94	5870.93	-2231.93	-288.33	-23.6	446974.4
5974	4.7	198.3	95	5965.62	-2326.62	-295.65	-26	446967.1
6068	4.6	202.2	94	6059.31	-2420.31	-302.79	-28.64	446960
6162	3.3	189.3	94	6153.08	-2514.08	-308.95	-30.5	446953.8
6257	3.2	187.5	95	6247.93	-2608.93	-314.28	-31.29	446948.5
6351	3.2	188.9	94	6341.78	-2702.78	-319.47	-32.03	446943.3
6446	3.3	194.6	95	6436.63	-2797.63	-324.74	-33.13	446938
6541	3.2	200.3	95	6531.48	-2892.48	-329.87	-34.74	446932.9
6635	3	179	94	6625.34	-2986.34	-334.79	-35.61	446928
6730	4.2	176.8	95	6720.16	-3081.16	-340.75	-35.37	446922
6824	4.4	164.1	94	6813.89	-3174.89	-347.66	-34.19	446915.1

6919	5.5	154.9	95	6908.54	-3269.54	-355.28	-31.26	446907.5
7013	6.5	161.4	94	7002.02	-3363.02	-364.41	-27.65	446898.3
7108	8.2	164.9	95	7096.24	-3457.24	-376.04	-24.17	446886.7
7202	9.5	161.7	94	7189.12	-3550.12	-389.88	-19.99	446872.9
7296	11.5	158.7	94	7281.54	-3642.54	-405.98	-14.15	446856.8
7391	11.5	160.9	95	7374.64	-3735.64	-423.75	-7.61	446839
7485	11.7	161.1	94	7466.72	-3827.72	-441.62	-1.46	446821.1
7580	12.3	159.9	95	7559.64	-3920.64	-460.24	5.14	446802.5
7675	12.7	157.9	95	7652.39	-4013.39	-479.42	12.54	446783.3
7769	11.6	158.6	94	7744.28	-4105.28	-497.79	19.88	446765
7864	10.9	159.8	95	7837.45	-4198.45	-515.11	26.47	446747.6
7958	12.2	160.3	94	7929.55	-4290.55	-532.8	32.88	446729.9
8053	11.4	159.9	95	8022.54	-4383.54	-551.07	39.49	446711.7
8147	11.5	160.8	94	8114.67	-4475.67	-568.65	45.77	446694.1
8242	10.3	159.7	95	8207.95	-4568.95	-585.55	51.83	446677.2
8336	10.7	162.8	94	8300.38	-4661.38	-601.77	57.33	446661
8430	9.4	161.8	94	8392.94	-4753.94	-617.4	62.3	446645.3
8525	8.8	162.1	95	8486.74	-4847.74	-631.69	66.96	446631.1
8619	9.2	163.7	94	8579.58	-4940.58	-645.74	71.28	446617
8714	8.4	169.4	95	8673.47	-5034.47	-659.85	74.69	446602.9
8808	7.9	173.2	94	8766.52	-5127.52	-673.02	76.72	446589.7
8903	6.9	171.9	95	8860.72	-5221.72	-685.15	78.29	446577.6
8998	6.9	174.8	95	8955.04	-5316.04	-696.48	79.61	446566.3
9092	6	172.8	94	9048.44	-5409.44	-706.98	80.74	446555.8
9187	4.8	156	95	9143.02	-5504.02	-715.54	82.98	446547.2
9282	3.5	157.1	95	9237.77	-5598.77	-721.84	85.73	446540.9
9376	2.5	111.2	94	9331.66	-5692.66	-725.22	88.75	446537.5
9392	2.2	135.6	16	9347.64	-5708.64	-725.57	89.29	446537.2
9468	4.9	37.3	76	9423.54	-5784.54	-724.03	92.28	446538.7
9500	3.5	11.5	32	9455.45	-5816.45	-721.98	93.31	446540.8
9531	5.7	339.7	31	9486.36	-5847.36	-719.61	92.96	446543.1
9563	9.1	342.7	32	9518.08	-5879.08	-715.7	91.66	446547
9608	15.3	337.8	45	9562.05	-5923.05	-706.8	88.35	446555.9
9657	21.3	334.6	49	9608.55	-5969.55	-692.76	82.09	446570
9702	25.2	329.3	45	9649.89	-6010.89	-677.13	73.69	446585.6
9752	30.4	326.6	50	9694.11	-6055.11	-657.41	61.28	446605.3
9797	30.1	330.8	45	9732.98	-6093.98	-638.05	49.5	446624.7
9846	35.3	328.8	49	9774.21	-6135.21	-615.2	36.17	446647.5
9891	42.2	323.5	45	9809.29	-6170.29	-591.89	20.42	446670.9
9941	49.3	319.6	50	9844.16	-6205.16	-563.92	-1.89	446698.8
9986	57.7	320.8	45	9870.91	-6231.91	-536.14	-25.01	446726.6
10035	64.8	326.3	49	9894.47	-6255.47	-501.58	-50.44	446761.2
10056	65.3	326.6	21	9903.33	-6264.33	-485.71	-60.96	446777
10130	65.4	330.7	74	9934.21	-6295.21	-428.29	-95.95	446834.5
10175	62.4	335.1	45	9954.01	-6315.01	-392.34	-114.36	446870.4
10193	62	336	18	9962.4	-6323.4	-377.85	-120.95	446884.9
10224	61	337.8	31	9977.2	-6338.2	-352.79	-131.64	446910

10256	62.9	340.6	32	9992.25	-6353.25	-326.39	-141.66	446936.3
10287	67.6	340.9	31	10005.22	-6366.22	-299.82	-150.94	446962.9
10318	72.6	341.3	31	10015.77	-6376.77	-272.25	-160.38	446990.5
10350	79.5	342	32	10023.48	-6384.48	-242.79	-170.15	447019.9
10382	84.9	344.7	32	10027.82	-6388.82	-212.43	-179.22	447050.3
10413	88.4	349.9	31	10029.63	-6390.63	-182.26	-186.02	447080.5
10505	90.7	353.8	92	10030.36	-6391.36	-91.21	-199.06	447171.5
10600	92.5	353.8	95	10027.7	-6388.7	3.19	-209.31	447265.9
10694	90.7	353.6	94	10025.08	-6386.08	96.58	-219.63	447359.3
10789	90.3	355.2	95	10024.25	-6385.25	191.12	-228.89	447453.9
10884	91	355.6	95	10023.17	-6384.17	285.81	-236.51	447548.6
10970	90.3	357.8	86	10022.2	-6383.2	371.66	-241.46	447634.4
11002	91.6	358.5	32	10021.67	-6382.67	403.63	-242.5	447666.4
11033	93.5	359.5	31	10020.29	-6381.29	434.6	-243.04	447697.3
11064	94.2	359.9	31	10018.21	-6379.21	465.53	-243.2	447728.3
11096	94.9	0	32	10015.67	-6376.67	497.42	-243.23	447760.2
11127	93.7	0.7	31	10013.34	-6374.34	528.34	-243.04	447791.1
11159	92.9	1.9	32	10011.5	-6372.5	560.27	-242.31	447823
11190	93	2.4	31	10009.91	-6370.91	591.21	-241.15	447854
11222	92.8	2.8	32	10008.29	-6369.29	623.14	-239.7	447885.9
11253	91.3	2.9	31	10007.18	-6368.18	654.08	-238.16	447916.8
11285	91.3	3.1	32	10006.45	-6367.45	686.03	-236.49	447948.8
11379	92.1	3.6	94	10003.66	-6364.66	779.82	-231	448042.6
11473	91.5	5.1	94	10000.71	-6361.71	873.5	-223.87	448136.2
11571	90.2	6.2	98	9999.26	-6360.26	971.01	-214.22	448233.8
11665	89.2	4.3	94	9999.75	-6360.75	1064.61	-205.62	448327.4
11759	92.5	2.7	94	9998.35	-6359.35	1158.41	-199.89	448421.2
11854	92.6	1.9	95	9994.13	-6355.13	1253.24	-196.08	448516
11948	90.8	1	94	9991.34	-6352.34	1347.16	-193.7	448609.9
12042	89.5	0.6	94	9991.09	-6352.09	1441.15	-192.39	448703.9
12133	89.4	0	91	9991.97	-6352.97	1532.14	-191.91	448794.9
12228	89.8	359.8	95	9992.63	-6353.63	1627.14	-192.08	448889.9
12322	90.7	0.3	94	9992.22	-6353.22	1721.14	-191.99	448983.9
12417	90.7	0.3	95	9991.06	-6352.06	1816.13	-191.5	449078.9
12511	88.4	2.1	94	9991.8	-6352.8	1910.1	-189.53	449172.8
12604	90.6	4.4	93	9992.61	-6353.61	2002.93	-184.26	449265.7
12698	88.7	4.3	94	9993.18	-6354.18	2096.66	-177.13	449359.4
12793	86.1	3.1	95	9997.49	-6358.49	2191.35	-171	449454.1
12887	84.4	2.2	94	10005.28	-6366.28	2284.92	-166.67	449547.7
12982	89.1	1.5	95	10010.66	-6371.66	2379.69	-163.61	449642.4
13076	89.9	0.5	94	10011.48	-6372.48	2473.67	-161.97	449736.4
13170	89.1	1.9	94	10012.3	-6373.3	2567.65	-160	449830.4
13265	88.2	2	95	10014.54	-6375.54	2662.56	-156.77	449925.3
13359	88.2	2	94	10017.49	-6378.49	2756.46	-153.49	450019.2
13453	88	1.2	94	10020.61	-6381.61	2850.37	-150.87	450113.1
13548	89.2	1.2	95	10022.93	-6383.93	2945.32	-148.88	450208.1
13643	86.5	357.4	95	10026.5	-6387.5	3040.22	-150.04	450303

13737	88.2	356	94	10030.84	-6391.84	3133.96	-155.44	450396.7
13831	89.5	356.5	94	10032.73	-6393.73	3227.74	-161.59	450490.5
13925	90.2	356.2	94	10032.97	-6393.97	3321.54	-167.57	450584.3
14020	92.3	357.3	95	10030.9	-6391.9	3416.36	-172.96	450679.1
14114	94	357.1	94	10025.74	-6386.74	3510.1	-177.54	450772.8
14208	92.5	359.1	94	10020.41	-6381.41	3603.89	-180.65	450866.6
14303	90	0.6	95	10018.33	-6379.33	3698.86	-180.9	450961.6
14397	89.9	0.7	94	10018.42	-6379.42	3792.85	-179.83	451055.6
14491	88.4	0.4	94	10019.81	-6380.81	3886.84	-178.93	451149.6
14586	89	0.8	95	10021.97	-6382.97	3981.81	-177.94	451244.5
14680	89.1	1.7	94	10023.52	-6384.52	4075.77	-175.89	451338.5
14750	88.8	2	70	10024.81	-6385.81	4145.72	-173.63	451408.5
14800	88.8	2	50	10025.85	-6386.85	4195.68	-171.88	451458.4

Map			Dogleg			
Easting	Lat	Long	Severity	T.Face	Vert Sec	Annotation
777560.8	32° 13' 38.1	103° 34' 9.1	0	0	0	
777560.8	32° 13' 38.1	103° 34' 9.1	0.3	179.6	-1.04	
777560.8	32° 13' 38.1	103° 34' 9.1	0.25	352.52	-2.65	
777560.8	32° 13' 38.1	103° 34' 9.1	0.51	158.64	-3.74	
777560.1	32° 13' 38.1	103° 34' 9.1	1.54	7.86	-5.51	
777558.6	32° 13' 38.1	103° 34' 9.1	0.78	10.69	-8.76	
777556.7	32° 13' 38.1	103° 34' 9.1	0.91	343.73	-13.12	
777555.1	32° 13' 38.1	103° 34' 9.1	0.59	219.76	-18.02	
777553.9	32° 13' 38.1	103° 34' 9.1	0.11	188.63	-22.55	
777553.6	32° 13' 37.1	103° 34' 9.1	1.19	264.52	-27.19	
777554.1	32° 13' 37.1	103° 34' 9.1	0.06	90.5	-31.93	
777554.6	32° 13' 37.1	103° 34' 9.1	0.33	173.73	-36.43	
777555.2	32° 13' 37.1	103° 34' 9.1	0.24	267.6	-40.87	
777555.4	32° 13' 37.1	103° 34' 9.1	0.74	77.73	-43.2	
777555.6	32° 13' 37.1	103° 34' 9.1	0.14	200.6	-46.99	
777555.7	32° 13' 37.1	103° 34' 9.1	0.22	138.24	-49.81	
777556.1	32° 13' 37.1	103° 34' 9.1	0.66	212.99	-53.68	
777556.2	32° 13' 37.1	103° 34' 9.1	1.08	55.87	-57.65	
777555.6	32° 13' 37.1	103° 34' 9.1	0.53	3.3	-62.66	
777554.9	32° 13' 37.1	103° 34' 9.1	0.32	190.84	-67.84	
777554.6	32° 13' 37.1	103° 34' 9.1	0.48	204.56	-72.41	
777554.4	32° 13' 37.1	103° 34' 9.1	0.42	175.07	-76.39	
777554	32° 13' 37.1	103° 34' 9.1	1.19	15.38	-80.91	
777552.8	32° 13' 37.1	103° 34' 9.1	0.65	38.08	-86.61	
777551.3	32° 13' 37.1	103° 34' 10	0.33	162.04	-92.45	
777549.8	32° 13' 37.1	103° 34' 10	0.42	176.91	-97.71	
777548.5	32° 13' 37.1	103° 34' 10	0.22	192.8	-102.44	

777547.3 32° 13' 37.1 103° 34' 10	0.32	168.08	-106.82
777546.3 32° 13' 37.1 103° 34' 10	0.45	197.42	-110.62
777545.7 32° 13' 37.1 103° 34' 10	0.61	325.99	-114.62
777545.7 32° 13' 37.1 103° 34' 10	0.68	292.38	-119.27
777546.1 32° 13' 37.1 103° 34' 10	0.53	185.48	-123.81
777546.6 32° 13' 36.1 103° 34' 10	0.55	193.25	-127.46
777547 32° 13' 36.1 103° 34' 10	0.79	23.77	-131.29
777547 32° 13' 36.1 103° 34' 10	0.8	25.87	-136.34
777546.8 32° 13' 36.1 103° 34' 10	0.53	183.47	-141.56
777546.9 32° 13' 36.1 103° 34' 10	0.51	211.05	-145.98
777547 32° 13' 36.1 103° 34' 10	0.61	34.33	-150.53
777546.5 32° 13' 36.1 103° 34' 10	0.79	22.37	-156
777545.8 32° 13' 36.1 103° 34' 10	0.43	170.22	-161.68
777545.1 32° 13' 36.1 103° 34' 10	0.63	177.75	-166.6
777544.5 32° 13' 36.1 103° 34' 10	0.21	183.74	-170.82
777543.9 32° 13' 36.1 103° 34' 10	0.21	177.7	-174.75
777543 32° 13' 36.1 103° 34' 10	0.89	18.91	-179.08
777541.7 32° 13' 36.1 103° 34' 10	0.56	18.2	-184.39
777540.3 32° 13' 36.1 103° 34' 10	0.67	198.14	-189.68
777539.4 32° 13' 36.1 103° 34' 10	0.63	182.8	-194.05
777538.9 32° 13' 36.1 103° 34' 10	0.7	314.96	-198.35
777539.2 32° 13' 36.1 103° 34' 10	1.01	321.51	-203.8
777540.3 32° 13' 36.1 103° 34' 10	0.54	243.05	-209.59
777542 32° 13' 36.1 103° 34' 10	0.41	236.17	-214.98
777543.7 32° 13' 36.1 103° 34' 10	0.15	91.2	-220.16
777545.5 32° 13' 36.1 103° 34' 10	0.43	349.02	-225.62
777546.7 32° 13' 35.1 103° 34' 10	1.06	97.78	-231.59
777546.7 32° 13' 35.1 103° 34' 10	0.64	135.18	-237.32
777546.6 32° 13' 35.1 103° 34' 10	0.68	211.09	-241.15
777546.5 32° 13' 35.1 103° 34' 10	0.6	122.3	-242.79
777546.7 32° 13' 35.1 103° 34' 10	0.47	252.4	-247.29
777546.5 32° 13' 35.1 103° 34' 10	1.77	34.13	-252.96
777545.3 32° 13' 35.1 103° 34' 10	0.6	61.05	-259.97
777543.4 32° 13' 35.1 103° 34' 10	0.27	114.12	-267.09
777541.6 32° 13' 35.1 103° 34' 10	0.3	313.13	-274.2
777539.5 32° 13' 35.1 103° 34' 10	0.56	127.39	-281.26
777537.2 32° 13' 35.1 103° 34' 10	0.33	345	-288.15
777534.8 32° 13' 35.1 103° 34' 10	0.11	9.31	-295.45
777532.1 32° 13' 35.1 103° 34' 10	0.35	109.49	-302.58
777530.3 32° 13' 35.1 103° 34' 10	1.67	208.03	-308.73
777529.5 32° 13' 35.1 103° 34' 10	0.15	224.68	-314.05
777528.8 32° 13' 35.1 103° 34' 10	0.08	90.7	-319.24
777527.7 32° 13' 35.1 103° 34' 10	0.36	75.66	-324.49
777526 32° 13' 34.1 103° 34' 10	0.36	110.03	-329.61
777525.2 32° 13' 34.1 103° 34' 10	1.24	249.63	-334.53
777525.4 32° 13' 34.1 103° 34' 10	1.27	352.33	-340.49
777526.6 32° 13' 34.1 103° 34' 10	1.03	275.48	-347.4

777529.5	32° 13' 34.1	103° 34' 10	1.42	319.54	-355.05
777533.1	32° 13' 34.0	103° 34' 10	1.28	37.45	-364.2
777536.6	32° 13' 34.1	103° 34' 10	1.85	16.5	-375.86
777540.8	32° 13' 34.1	103° 34' 10	1.48	337.67	-389.73
777546.6	32° 13' 34.1	103° 34' 10	2.21	343.23	-405.87
777553.2	32° 13' 34.0	103° 34' 10	0.46	91.08	-423.69
777559.3	32° 13' 33.8	103° 34' 9.1	0.22	11.47	-441.6
777565.9	32° 13' 33.1	103° 34' 9.1	0.68	336.83	-460.26
777573.3	32° 13' 33.1	103° 34' 9.1	0.62	311.76	-479.49
777580.7	32° 13' 33.3	103° 34' 9.1	1.18	172.71	-497.92
777587.3	32° 13' 33.1	103° 34' 9.1	0.78	162.1	-515.29
777593.7	32° 13' 32.9	103° 34' 9.1	1.39	4.65	-533.03
777600.3	32° 13' 32.1	103° 34' 9.1	0.85	185.64	-551.34
777606.6	32° 13' 32.0	103° 34' 9.1	0.22	61.21	-568.96
777612.6	32° 13' 32.4	103° 34' 9.1	1.28	189.29	-585.91
777618.1	32° 13' 32.1	103° 34' 9.1	0.74	56.23	-602.17
777623.1	32° 13' 32.1	103° 34' 9.1	1.4	187.15	-617.83
777627.7	32° 13' 31.9	103° 34' 9.1	0.63	175.63	-632.15
777632.1	32° 13' 31.8	103° 34' 9.1	0.5	32.83	-646.24
777635.5	32° 13' 31.1	103° 34' 9.1	1.24	135.33	-660.37
777637.5	32° 13' 31.1	103° 34' 9.1	0.78	134.74	-673.55
777639.1	32° 13' 31.4	103° 34' 9.1	1.07	188.86	-685.69
777640.4	32° 13' 31.3	103° 34' 9.1	0.37	91.44	-697.03
777641.5	32° 13' 31.1	103° 34' 9.1	0.99	193.02	-707.54
777643.8	32° 13' 31.1	103° 34' 8.1	2.08	224.64	-716.11
777646.5	32° 13' 31.1	103° 34' 8.1	1.37	177.04	-722.43
777649.5	32° 13' 31.0	103° 34' 8.1	2.67	225.58	-725.84
777650.1	32° 13' 31.0	103° 34' 8.1	6.47	118.64	-726.19
777653.1	32° 13' 31.0	103° 34' 8.1	7.44	239.11	-724.67
777654.1	32° 13' 31.1	103° 34' 8.1	7.24	221.07	-722.63
777653.7	32° 13' 31.1	103° 34' 8.1	10.61	294.19	-720.26
777652.4	32° 13' 31.1	103° 34' 8.1	10.69	7.97	-716.34
777649.1	32° 13' 31.1	103° 34' 8.1	13.96	348.11	-707.41
777642.9	32° 13' 31.1	103° 34' 8.1	12.41	348.97	-693.33
777634.5	32° 13' 31.1	103° 34' 9.1	9.83	329.33	-677.64
777622.1	32° 13' 31.1	103° 34' 9.1	10.7	345.18	-657.83
777610.3	32° 13' 31.1	103° 34' 9.1	4.75	99.88	-638.39
777597	32° 13' 32.1	103° 34' 9.1	10.84	347.41	-615.44
777581.2	32° 13' 32.1	103° 34' 9.1	17	332.22	-592.02
777558.9	32° 13' 32.0	103° 34' 9.1	15.25	337.14	-563.89
777535.8	32° 13' 32.9	103° 34' 10	18.79	6.91	-535.95
777510.3	32° 13' 33.1	103° 34' 10	17.51	35.55	-501.21
777499.8	32° 13' 33.4	103° 34' 10	2.71	28.61	-485.27
777464.8	32° 13' 34.0	103° 34' 11	5.04	89.32	-427.59
777446.4	32° 13' 34.1	103° 34' 11	11.02	128.16	-391.51
777439.8	32° 13' 34.1	103° 34' 11	4.95	116.89	-376.97
777429.1	32° 13' 34.1	103° 34' 11	6.04	122.73	-351.84

777419.1	32° 13' 35.0	103° 34' 11	9.74	53.11	-325.37
777409.8	32° 13' 35.0	103° 34' 11	15.19	3.38	-298.74
777400.4	32° 13' 35.0	103° 34' 11	16.17	4.37	-271.1
777390.6	32° 13' 35.0	103° 34' 11	21.67	5.71	-241.57
777381.6	32° 13' 36.0	103° 34' 11	18.83	26.55	-211.14
777374.8	32° 13' 36.0	103° 34' 12	20.19	56.19	-180.92
777361.7	32° 13' 37.0	103° 34' 12	4.92	59.5	-89.79
777351.5	32° 13' 38.0	103° 34' 12	1.89	0	4.69
777341.2	32° 13' 39.0	103° 34' 12	1.93	186.34	98.15
777331.9	32° 13' 40.0	103° 34' 12	1.74	104.03	192.76
777324.3	32° 13' 41.0	103° 34' 12	0.85	29.74	287.49
777319.3	32° 13' 41.0	103° 34' 12	2.68	107.64	373.37
777318.3	32° 13' 42.0	103° 34' 12	4.61	28.29	405.36
777317.7	32° 13' 42.0	103° 34' 12	6.92	27.71	436.32
777317.6	32° 13' 42.0	103° 34' 12	2.6	29.68	467.25
777317.6	32° 13' 43.0	103° 34' 12	2.21	8.1	499.15
777317.7	32° 13' 43.0	103° 34' 12	4.48	149.79	530.06
777318.5	32° 13' 43.0	103° 34' 12	4.5	123.7	561.99
777319.6	32° 13' 44.0	103° 34' 12	1.64	78.66	592.92
777321.1	32° 13' 44.0	103° 34' 12	1.4	116.58	624.84
777322.6	32° 13' 44.0	103° 34' 12	4.85	176.19	655.77
777324.3	32° 13' 45.0	103° 34' 12	0.62	90	687.7
777329.8	32° 13' 45.0	103° 34' 12	1	31.99	781.46
777336.9	32° 13' 46.0	103° 34' 12	1.72	111.79	875.08
777346.6	32° 13' 47.0	103° 34' 12	1.74	139.76	972.52
777355.2	32° 13' 48.0	103° 34' 12	2.28	242.24	1066.06
777360.9	32° 13' 49.0	103° 34' 12	3.9	334.14	1159.81
777364.7	32° 13' 50.0	103° 34' 12	0.85	277.15	1254.61
777367.1	32° 13' 51.0	103° 34' 12	2.14	206.57	1348.51
777368.4	32° 13' 52.0	103° 34' 12	1.45	197.1	1442.49
777368.9	32° 13' 53.0	103° 34' 11	0.67	260.53	1533.48
777368.7	32° 13' 54.0	103° 34' 11	0.47	333.43	1628.47
777368.8	32° 13' 55.0	103° 34' 11	1.1	29.05	1722.47
777369.3	32° 13' 56.0	103° 34' 11	0	0	1817.46
777371.3	32° 13' 57.0	103° 34' 11	3.11	141.96	1911.4
777376.5	32° 13' 58.0	103° 34' 11	3.42	46.29	2004.2
777383.7	32° 13' 59.0	103° 34' 11	2.02	183.01	2097.87
777389.8	32° 13' 59.0	103° 34' 11	3.01	204.73	2192.52
777394.1	32° 14' 0.8	103° 34' 11	2.04	207.78	2286.06
777397.2	32° 14' 1.8	103° 34' 11	5	351.52	2380.8
777398.8	32° 14' 2.7	103° 34' 11	1.36	308.66	2474.77
777400.8	32° 14' 3.6	103° 34' 11	1.72	119.75	2568.73
777404	32° 14' 4.6	103° 34' 11	0.95	173.66	2663.62
777407.3	32° 14' 5.5	103° 34' 11	0	0	2757.49
777409.9	32° 14' 6.4	103° 34' 11	0.88	255.94	2851.38
777411.9	32° 14' 7.4	103° 34' 11	1.26	0	2946.31
777410.7	32° 14' 8.3	103° 34' 11	4.9	234.53	3041.22

777405.3 32° 14' 9.2" 103° 34' 11	2.34	320.52	3134.99
777399.2 32° 14' 10.1" 103° 34' 11	1.48	21.04	3228.81
777393.2 32° 14' 11.1" 103° 34' 11	0.81	336.8	3322.66
777387.8 32° 14' 12.1" 103° 34' 11	2.5	27.63	3417.51
777383.2 32° 14' 13.1" 103° 34' 11	1.82	353.31	3511.28
777380.1 32° 14' 13.1" 103° 34' 11	2.66	126.85	3605.09
777379.9 32° 14' 14.1" 103° 34' 11	3.07	149.02	3700.06
777381 32° 14' 15.1" 103° 34' 11	0.15	135	3794.04
777381.9 32° 14' 16.1" 103° 34' 11	1.63	191.31	3888.02
777382.8 32° 14' 17.1" 103° 34' 11	0.76	33.69	3982.98
777384.9 32° 14' 18.1" 103° 34' 11	0.96	83.67	4076.92
777387.2 32° 14' 19.1" 103° 34' 11	0.61	135.01	4146.86
777388.9 32° 14' 19.1" 103° 34' 11	0	0	4196.8 Projection to TD-14800.00' MD