

Wellpath Geographic Report

Report Date:	30-Jan-04	Grid Convergence Angle:	1.05 deg
Client:	ChevronTexaco	Grid Scale Factor:	0.999664
Field:	Captain	Survey / DLS Computation Method:	Minimum Curvature
Structure / Slot:	Captain WPP / Slot #7	Vertical Section Azimuth:	153.00 deg
Well Name:	13/22a-C18z	Vertical Section Origin:	31.62S, 15.08W
Wellbore Name:	13/22a-C18z (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C18z Definitive Survey	TVD Reference Elevation:	Rig (Captain WPP 155.0ft above Mean Sea Level)
Grid Coordinate System:	European Datum 1950 / UTM Zone 30 N	Sea Bed / Ground Level Elevation:	-345.50 ft to Mean Sea Level
Slot Location Lat/Long:	N58 18 26.6213, W1 46 6.9921	North Reference:	Grid
Slot Location Grid N/E Y/X:	6463741.6050 m, 572162.8350 m	Local Coordinates Referenced To:	Installation

							Grid Coordinates		Geographic Coordinates					
MD	Inc	Azi	TVD	TVD(SS)	N/S	E/W	Northing	Easting	Latitude	Longitude	DLS	VS	Comment	
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(m)	(m)			(deg/100ft)	(ft)		
0.00	0.00	0.00	0.00	-155.00	-31.62	-15.08	6463741.610	572162.830	N58 18 26.6213	W1 46 6.9921	0.00	0.00		
500.50	0.00	0.00	500.50	345.50	-31.62	-15.08	6463741.610	572162.830	N58 18 26.6213	W1 46 6.9921	0.00	0.00		
510.00	0.21	181.12	510.00	355.00	-31.64	-15.08	6463741.600	572162.830	N58 18 26.6211	W1 46 6.9921	2.21	0.02		
540.00	0.24	115.74	540.00	385.00	-31.72	-15.03	6463741.570	572162.850	N58 18 26.6203	W1 46 6.9911	0.81	0.11		
570.00	0.32	188.34	570.00	415.00	-31.83	-14.98	6463741.540	572162.870	N58 18 26.6192	W1 46 6.9903	1.13	0.23		
600.00	0.35	199.91	600.00	445.00	-32.00	-15.02	6463741.490	572162.850	N58 18 26.6175	W1 46 6.9912	0.25	0.36		
630.00	0.38	212.57	630.00	475.00	-32.17	-15.11	6463741.440	572162.830	N58 18 26.6159	W1 46 6.9928	0.29	0.48		
650.00	0.64	180.28	650.00	495.00	-32.34	-15.15	6463741.390	572162.820	N58 18 26.6142	W1 46 6.9936	1.89	0.61		
700.00	0.87	175.59	699.99	544.99	-33.00	-15.12	6463741.190	572162.820	N58 18 26.6078	W1 46 6.9933	0.48	1.21		
750.00	1.01	199.64	749.99	594.99	-33.79	-15.24	6463740.940	572162.790	N58 18 26.6000	W1 46 6.9958	0.83	1.86		
800.00	1.95	176.12	799.97	644.97	-35.05	-15.33	6463740.560	572162.760	N58 18 26.5875	W1 46 6.9979	2.20	2.95		
850.00	2.79	170.28	849.93	694.93	-37.10	-15.06	6463739.940	572162.840	N58 18 26.5673	W1 46 6.9937	1.75	4.89		
900.00	3.72	173.06	899.85	744.85	-39.91	-14.66	6463739.080	572162.960	N58 18 26.5396	W1 46 6.9871	1.89	7.58		
950.00	5.40	168.01	949.69	794.69	-43.82	-13.98	6463737.890	572163.170	N58 18 26.5009	W1 46 6.9757	3.45	11.37		
1000.00	6.31	164.83	999.42	844.42	-48.78	-12.77	6463736.380	572163.540	N58 18 26.4519	W1 46 6.9547	1.93	16.33		
1050.00	7.47	164.18	1049.06	894.06	-54.56	-11.16	6463734.620	572164.030	N58 18 26.3947	W1 46 6.9267	2.33	22.21		
1100.00	9.18	167.13	1098.53	943.53	-61.57	-9.39	6463732.480	572164.570	N58 18 26.3253	W1 46 6.8959	3.52	29.27		
1150.00	10.66	162.81	1147.79	992.79	-69.88	-7.13	6463729.950	572165.260	N58 18 26.2431	W1 46 6.8565	3.31	37.69		
1200.00	12.78	159.95	1196.74	1041.74	-79.49	-3.87	6463727.020	572166.250	N58 18 26.1478	W1 46 6.7988	4.40	47.74		
1250.00	15.41	158.42	1245.23	1090.23	-90.87	0.47	6463723.550	572167.570	N58 18 26.0350	W1 46 6.7214	5.31	59.85		
1275.00	16.43	158.24	1269.27	1114.27	-97.24	3.00	6463721.610	572168.340	N58 18 25.9717	W1 46 6.6762	4.08	66.67		
1300.00	17.18	157.92	1293.20	1138.20	-103.94	5.70	6463719.570	572169.170	N58 18 25.9052	W1 46 6.6280	3.02	73.87		
1325.00	17.82	157.65	1317.05	1162.05	-110.90	8.54	6463717.450	572170.030	N58 18 25.8362	W1 46 6.5772	2.58	81.37		
1350.00	18.82	157.34	1340.78	1185.78	-118.16	11.55	6463715.240	572170.950	N58 18 25.7641	W1 46 6.5234	4.02	89.20		
1375.00	19.81	157.20	1364.37	1209.37	-125.79	14.74	6463712.910	572171.920	N58 18 25.6884	W1 46 6.4662	3.96	97.45		
1400.00	20.31	158.28	1387.86	1232.86	-133.73	17.99	6463710.490	572172.910	N58 18 25.6097	W1 46 6.4082	2.49	105.99		
1425.00	20.69	158.18	1411.27	1256.27	-141.86	21.24	6463708.020	572173.900	N58 18 25.5290	W1 46 6.3502	1.53	114.71		
1450.00	21.05	158.17	1434.63	1279.63	-150.12	24.55	6463705.500	572174.910	N58 18 25.4470	W1 46 6.2911	1.44	123.58		

MD (ft)	Inc (deg)	Azi (deg)	TVD (ft)	TVD(SS) (ft)	N/-S (ft)	E/-W (ft)	Grid Coordinates		Geographic Coordinates		DLS (deg/100ft)	VS (ft)	Comment
							Northing (m)	Easting (m)	Latitude	Longitude			
1475.00	21.29	158.11	1457.94	1302.95	-158.50	27.91	6463702.940	572175.930	N58 18 25.3638	W1 46 6.2310	0.96	132.57	
1500.00	21.60	157.87	1481.21	1326.21	-166.98	31.34	6463700.360	572176.980	N58 18 25.2798	W1 46 6.1698	1.29	141.68	
1525.00	21.95	157.76	1504.43	1349.43	-175.57	34.84	6463697.750	572178.050	N58 18 25.1945	W1 46 6.1072	1.41	150.92	
1550.00	22.30	157.61	1527.59	1372.59	-184.28	38.41	6463695.090	572179.140	N58 18 25.1081	W1 46 6.0433	1.42	160.30	
1575.00	22.84	157.72	1550.68	1395.67	-193.15	42.06	6463692.390	572180.250	N58 18 25.0200	W1 46 5.9781	2.17	169.87	
1600.00	23.15	157.59	1573.69	1418.69	-202.18	45.77	6463689.640	572181.380	N58 18 24.9304	W1 46 5.9117	1.26	179.60	
1625.00	23.75	157.73	1596.62	1441.62	-211.39	49.56	6463686.830	572182.530	N58 18 24.8391	W1 46 5.8441	2.41	189.52	
1650.00	24.11	157.52	1619.47	1464.47	-220.76	53.42	6463683.970	572183.710	N58 18 24.7460	W1 46 5.7751	1.48	199.62	
1675.00	24.66	157.39	1642.24	1487.24	-230.29	57.37	6463681.070	572184.910	N58 18 24.6514	W1 46 5.7043	2.21	209.91	
1700.00	25.51	157.50	1664.89	1509.89	-240.08	61.44	6463678.090	572186.150	N58 18 24.5543	W1 46 5.6316	3.41	220.48	
1725.00	26.52	157.44	1687.35	1532.35	-250.21	65.64	6463675.000	572187.430	N58 18 24.4538	W1 46 5.5564	4.04	231.41	
1750.00	27.06	157.49	1709.67	1554.67	-260.62	69.96	6463671.830	572188.750	N58 18 24.3505	W1 46 5.4792	2.16	242.65	
1775.00	27.57	158.46	1731.88	1576.88	-271.25	74.26	6463668.590	572190.060	N58 18 24.2450	W1 46 5.4023	2.71	254.07	
1800.00	28.00	158.62	1754.00	1599.00	-282.10	78.52	6463665.280	572191.360	N58 18 24.1374	W1 46 5.3263	1.75	265.67	
1825.00	29.02	159.61	1775.97	1620.97	-293.25	82.78	6463661.890	572192.650	N58 18 24.0268	W1 46 5.2505	4.50	277.54	
1850.00	30.11	160.98	1797.71	1642.71	-304.86	86.93	6463658.350	572193.920	N58 18 23.9117	W1 46 5.1767	5.13	289.77	
1875.00	31.08	161.88	1819.23	1664.23	-316.92	90.98	6463654.670	572195.150	N58 18 23.7921	W1 46 5.1051	4.29	302.36	
1900.00	32.01	162.59	1840.54	1685.54	-329.38	94.97	6463650.880	572196.370	N58 18 23.6687	W1 46 5.0347	4.01	315.27	
1925.00	32.42	162.73	1861.69	1706.69	-342.10	98.94	6463647.000	572197.580	N58 18 23.5427	W1 46 4.9647	1.67	328.41	
1950.00	32.16	161.76	1882.82	1727.82	-354.82	103.02	6463643.130	572198.820	N58 18 23.4167	W1 46 4.8929	2.32	341.59	
1975.00	31.76	160.73	1904.03	1749.03	-367.35	107.27	6463639.310	572200.120	N58 18 23.2925	W1 46 4.8175	2.70	354.68	
2000.00	31.88	159.91	1925.28	1770.28	-379.76	111.71	6463635.530	572201.470	N58 18 23.1695	W1 46 4.7387	1.79	367.76	
2025.00	32.53	159.83	1946.43	1791.43	-392.27	116.30	6463631.720	572202.860	N58 18 23.0455	W1 46 4.6572	2.61	380.98	
2050.00	33.29	159.80	1967.42	1812.42	-405.02	120.98	6463627.830	572204.290	N58 18 22.9190	W1 46 4.5739	3.04	394.47	
2075.00	34.06	159.78	1988.22	1833.22	-418.03	125.77	6463623.870	572205.750	N58 18 22.7901	W1 46 4.4887	3.08	408.24	
2100.00	34.64	159.88	2008.86	1853.86	-431.27	130.63	6463619.830	572207.230	N58 18 22.6588	W1 46 4.4022	2.33	422.24	
2125.00	35.25	159.94	2029.36	1874.35	-444.72	135.55	6463615.740	572208.730	N58 18 22.5254	W1 46 4.3148	2.44	436.46	
2150.00	36.00	160.04	2049.68	1894.68	-458.40	140.54	6463611.570	572210.250	N58 18 22.3898	W1 46 4.2262	3.01	450.91	
2175.00	36.89	160.05	2069.79	1914.79	-472.36	145.60	6463607.310	572211.800	N58 18 22.2513	W1 46 4.1362	3.56	465.65	
2200.00	37.65	160.18	2089.68	1934.68	-486.60	150.75	6463602.980	572213.360	N58 18 22.1102	W1 46 4.0447	3.06	480.67	
2225.00	38.50	160.36	2109.36	1954.36	-501.11	155.96	6463598.550	572214.950	N58 18 21.9663	W1 46 3.9523	3.43	495.97	
2250.00	39.50	160.37	2128.79	1973.79	-515.93	161.25	6463594.040	572216.560	N58 18 21.8194	W1 46 3.8584	4.00	511.57	
2275.00	40.38	160.49	2147.96	1992.96	-531.05	166.62	6463589.430	572218.200	N58 18 21.6695	W1 46 3.7630	3.53	527.48	
2300.00	41.02	160.72	2166.91	2011.91	-546.43	172.03	6463584.750	572219.850	N58 18 21.5171	W1 46 3.6670	2.63	543.64	
2325.00	41.86	160.87	2185.65	2030.65	-562.05	177.48	6463579.980	572221.510	N58 18 21.3622	W1 46 3.5705	3.38	560.04	
2350.00	42.98	160.89	2204.11	2049.11	-577.99	183.00	6463575.130	572223.190	N58 18 21.2043	W1 46 3.4726	4.48	576.74	
2375.00	43.73	160.94	2222.28	2067.28	-594.20	188.61	6463570.190	572224.900	N58 18 21.0435	W1 46 3.3732	3.00	593.74	
2400.00	44.44	160.94	2240.24	2085.24	-610.64	194.29	6463565.180	572226.630	N58 18 20.8806	W1 46 3.2725	2.84	610.97	
2425.00	45.45	160.91	2257.94	2102.94	-627.33	200.06	6463560.090	572228.390	N58 18 20.7151	W1 46 3.1702	4.04	628.46	
2450.00	46.57	160.93	2275.30	2120.30	-644.33	205.94	6463554.910	572230.180	N58 18 20.5466	W1 46 3.0660	4.48	646.27	
2475.00	47.29	160.99	2292.37	2137.37	-661.60	211.90	6463549.650	572232.000	N58 18 20.3755	W1 46 2.9605	2.89	664.36	
2500.00	48.06	161.03	2309.20	2154.20	-679.07	217.91	6463544.330	572233.830	N58 18 20.2023	W1 46 2.8539	3.08	682.66	
2525.00	49.16	161.02	2325.73	2170.73	-696.81	224.01	6463538.920	572235.690	N58 18 20.0265	W1 46 2.7459	4.40	701.23	
2550.00	50.16	161.02	2341.92	2186.92	-714.83	230.21	6463533.430	572237.570	N58 18 19.8479	W1 46 2.6361	4.00	720.10	

MD (ft)	Inc (deg)	Azi (deg)	TVD (ft)	TVD(SS) (ft)	N-S (ft)	E-W (ft)	Grid Coordinates		Geographic Coordinates		DLS (deg/100ft)	VS (ft)	Comment
							Northing (m)	Easting (m)	Latitude	Longitude			
2575.00	50.59	160.92	2357.86	2202.86	-733.03	236.49	6463527.890	572239.490	N58 18 19.6675	W1 46 2.5248	1.75	739.17	
2600.00	51.37	160.81	2373.60	2218.60	-751.38	242.86	6463522.300	572241.430	N58 18 19.4856	W1 46 2.4120	3.14	758.41	
2625.00	52.44	160.72	2389.02	2234.02	-769.96	249.34	6463516.640	572243.400	N58 18 19.3015	W1 46 2.2971	4.29	777.91	
2650.00	53.55	160.65	2404.07	2249.07	-788.80	255.94	6463510.890	572245.410	N58 18 19.1147	W1 46 2.1800	4.45	797.69	
2675.00	54.21	160.45	2418.81	2263.81	-807.84	262.67	6463505.090	572247.460	N58 18 18.9260	W1 46 2.0607	2.72	817.71	
2700.00	54.82	160.20	2433.32	2278.32	-827.01	269.52	6463499.250	572249.550	N58 18 18.7359	W1 46 1.9390	2.57	837.90	
2800.00	58.51	159.83	2488.26	2333.26	-905.51	298.07	6463475.330	572258.250	N58 18 17.9576	W1 46 1.4316	3.70	920.81	
2900.00	59.95	159.68	2539.42	2384.42	-986.12	327.81	6463450.770	572267.310	N58 18 17.1583	W1 46 0.9029	1.45	1006.13	
3000.00	60.29	159.28	2589.24	2434.24	-1067.33	358.20	6463426.030	572276.570	N58 18 16.3530	W1 46 0.3620	0.49	1092.29	
3100.00	58.60	159.53	2640.08	2485.08	-1147.93	388.49	6463401.470	572285.800	N58 18 15.5536	W1 45 59.8228	1.70	1177.86	
3200.00	59.77	160.11	2691.30	2536.30	-1228.54	418.12	6463376.910	572294.830	N58 18 14.7543	W1 45 59.2961	1.27	1263.13	
3225.00	60.64	160.21	2703.72	2548.72	-1248.95	425.48	6463370.690	572297.070	N58 18 14.5520	W1 45 59.1654	3.50	1284.66	
3250.00	61.30	160.31	2715.86	2560.86	-1269.53	432.86	6463364.420	572299.320	N58 18 14.3480	W1 45 59.0343	2.66	1306.34	
3275.00	62.22	160.38	2727.68	2572.68	-1290.27	440.27	6463358.100	572301.580	N58 18 14.1424	W1 45 58.9028	3.69	1328.19	
3300.00	63.24	160.49	2739.14	2584.14	-1311.20	447.71	6463351.720	572303.850	N58 18 13.9348	W1 45 58.7707	4.10	1350.22	
3325.00	64.31	160.81	2750.19	2595.19	-1332.36	455.14	6463345.270	572306.110	N58 18 13.7250	W1 45 58.6390	4.43	1372.45	
3350.00	65.25	160.95	2760.84	2605.84	-1353.73	462.55	6463338.760	572308.370	N58 18 13.5132	W1 45 58.5077	3.79	1394.85	
3375.00	66.12	161.06	2771.13	2616.13	-1375.27	469.97	6463332.200	572310.630	N58 18 13.2997	W1 45 58.3763	3.50	1417.41	
3400.00	66.89	161.16	2781.10	2626.10	-1396.97	477.39	6463325.590	572312.890	N58 18 13.0847	W1 45 58.2449	3.10	1440.11	
3425.00	67.66	161.19	2790.76	2635.76	-1418.79	484.83	6463318.940	572315.160	N58 18 12.8684	W1 45 58.1131	3.08	1462.93	
3450.00	68.48	161.29	2800.09	2645.09	-1440.75	492.29	6463312.250	572317.430	N58 18 12.6508	W1 45 57.9811	3.30	1485.88	
3475.00	69.23	161.34	2809.11	2654.11	-1462.84	499.76	6463305.520	572319.700	N58 18 12.4319	W1 45 57.8489	3.01	1508.96	
3500.00	69.95	161.37	2817.83	2662.83	-1485.04	507.25	6463298.750	572321.990	N58 18 12.2119	W1 45 57.7164	2.88	1532.14	
3525.00	70.53	161.11	2826.28	2671.28	-1507.32	514.81	6463291.960	572324.290	N58 18 11.9911	W1 45 57.5824	2.52	1555.42	
3550.00	71.38	160.93	2834.44	2679.44	-1529.66	522.50	6463285.160	572326.630	N58 18 11.7696	W1 45 57.4463	3.47	1578.82	
3575.00	72.38	160.81	2842.22	2687.21	-1552.11	530.29	6463278.320	572329.010	N58 18 11.5471	W1 45 57.3083	4.03	1602.36	
3600.00	73.20	160.74	2849.61	2694.61	-1574.66	538.15	6463271.440	572331.400	N58 18 11.3236	W1 45 57.1689	3.29	1626.02	
3625.00	73.88	160.66	2856.70	2701.70	-1597.29	546.07	6463264.550	572333.820	N58 18 11.0993	W1 45 57.0284	2.74	1649.78	
3650.00	74.81	160.57	2863.44	2708.44	-1620.00	554.06	6463257.630	572336.250	N58 18 10.8742	W1 45 56.8867	3.74	1673.64	
3675.00	75.74	160.58	2869.80	2714.80	-1642.80	562.11	6463250.680	572338.700	N58 18 10.6482	W1 45 56.7441	3.72	1697.61	
3700.00	76.53	160.66	2875.79	2720.79	-1665.69	570.16	6463243.710	572341.160	N58 18 10.4212	W1 45 56.6012	3.18	1721.66	
3725.00	77.48	160.80	2881.41	2726.41	-1688.69	578.20	6463236.700	572343.610	N58 18 10.1933	W1 45 56.4587	3.84	1745.80	
3750.00	78.45	160.84	2886.62	2731.62	-1711.78	586.23	6463229.660	572346.050	N58 18 9.9644	W1 45 56.3163	3.88	1770.02	
3775.00	79.34	160.96	2891.44	2736.44	-1734.96	594.26	6463222.600	572348.500	N58 18 9.7346	W1 45 56.1741	3.59	1794.32	
3800.00	80.09	161.11	2895.90	2740.90	-1758.23	602.25	6463215.510	572350.930	N58 18 9.5040	W1 45 56.0325	3.06	1818.68	
3825.00	80.49	161.14	2900.12	2745.12	-1781.54	610.22	6463208.410	572353.360	N58 18 9.2729	W1 45 55.8913	1.60	1843.07	
3850.00	80.77	161.10	2904.19	2749.19	-1804.88	618.21	6463201.300	572355.800	N58 18 9.0416	W1 45 55.7500	1.13	1867.49	
3875.00	80.59	161.03	2908.24	2753.24	-1828.22	626.21	6463194.190	572358.240	N58 18 8.8103	W1 45 55.6082	0.77	1891.92	
3900.00	80.62	160.89	2912.32	2757.32	-1851.53	634.26	6463187.080	572360.690	N58 18 8.5792	W1 45 55.4657	0.57	1916.35	
3925.00	80.65	160.80	2916.38	2761.38	-1874.83	642.35	6463179.980	572363.150	N58 18 8.3483	W1 45 55.3222	0.37	1940.78	
3950.00	80.66	160.66	2920.44	2765.44	-1898.12	650.49	6463172.890	572365.630	N58 18 8.1174	W1 45 55.1779	0.55	1965.23	
3975.00	80.82	160.50	2924.47	2769.47	-1921.39	658.70	6463165.800	572368.130	N58 18 7.8868	W1 45 55.0324	0.90	1989.68	
4000.00	80.84	160.38	2928.45	2773.45	-1944.65	666.96	6463158.710	572370.650	N58 18 7.6562	W1 45 54.8858	0.48	2014.16	
4025.00	80.68	160.07	2932.47	2777.46	-1967.87	675.31	6463151.640	572373.190	N58 18 7.4260	W1 45 54.7375	1.38	2038.64	

MD (ft)	Inc (deg)	Azi (deg)	TVD (ft)	TVD(SS) (ft)	N-S (ft)	E-W (ft)	Grid Coordinates		Geographic Coordinates		DLS (deg/100ft)	VS (ft)	Comment
							Northing (m)	Easting (m)	Latitude	Longitude			
4050.00	80.24	159.64	2936.61	2781.61	-1991.01	683.80	6463144.580	572375.780	N58 18 7.1965	W1 45 54.5866	2.44	2063.11	
4075.00	79.92	159.32	2940.92	2785.92	-2014.08	692.43	6463137.560	572378.410	N58 18 6.9678	W1 45 54.4330	1.80	2087.58	
4100.00	80.01	159.18	2945.27	2790.27	-2037.10	701.15	6463130.540	572381.070	N58 18 6.7395	W1 45 54.2777	0.66	2112.05	
4125.00	80.03	159.13	2949.60	2794.60	-2060.11	709.91	6463123.530	572383.740	N58 18 6.5112	W1 45 54.1217	0.21	2136.53	
4150.00	79.97	159.02	2953.95	2798.95	-2083.10	718.71	6463116.520	572386.420	N58 18 6.2832	W1 45 53.9651	0.50	2161.02	
4175.00	80.08	158.92	2958.28	2803.28	-2106.09	727.54	6463109.520	572389.110	N58 18 6.0552	W1 45 53.8077	0.59	2185.50	
4200.00	80.05	158.78	2962.59	2807.59	-2129.05	736.43	6463102.520	572391.820	N58 18 5.8274	W1 45 53.6493	0.56	2210.00	
4225.00	80.01	158.78	2966.92	2811.92	-2152.01	745.34	6463095.530	572394.530	N58 18 5.5997	W1 45 53.4904	0.16	2234.50	
4250.00	79.98	158.81	2971.26	2816.26	-2174.96	754.25	6463088.540	572397.250	N58 18 5.3720	W1 45 53.3317	0.17	2258.99	
4275.00	79.60	158.80	2975.69	2820.69	-2197.90	763.14	6463081.550	572399.960	N58 18 5.1445	W1 45 53.1731	1.52	2283.47	
4300.00	79.29	158.83	2980.27	2825.27	-2220.81	772.02	6463074.560	572402.660	N58 18 4.9172	W1 45 53.0148	1.25	2307.92	
4325.00	79.07	158.93	2984.97	2829.96	-2243.72	780.87	6463067.580	572405.360	N58 18 4.6900	W1 45 52.8572	0.96	2332.35	
4350.00	79.65	159.06	2989.58	2834.58	-2266.66	789.68	6463060.600	572408.040	N58 18 4.4624	W1 45 52.7003	2.38	2356.78	
4375.00	80.51	159.20	2993.89	2838.89	-2289.67	798.45	6463053.580	572410.720	N58 18 4.2342	W1 45 52.5440	3.48	2381.27	
4400.00	81.06	159.26	2997.89	2842.89	-2312.74	807.20	6463046.550	572413.380	N58 18 4.0054	W1 45 52.3882	2.21	2405.80	
4425.00	82.26	159.17	3001.52	2846.52	-2335.87	815.98	6463039.510	572416.060	N58 18 3.7760	W1 45 52.2319	4.81	2430.39	
4450.00	83.75	159.03	3004.56	2849.56	-2359.05	824.83	6463032.440	572418.750	N58 18 3.5461	W1 45 52.0743	5.99	2455.06	
4475.00	84.83	158.61	3007.05	2852.05	-2382.24	833.82	6463025.380	572421.490	N58 18 3.3160	W1 45 51.9141	4.63	2479.81	
4500.00	85.50	158.04	3009.16	2854.16	-2405.39	843.02	6463018.320	572424.300	N58 18 3.0864	W1 45 51.7499	3.51	2504.61	
4525.00	86.24	157.71	3010.96	2855.96	-2428.49	852.41	6463011.290	572427.160	N58 18 2.8572	W1 45 51.5821	3.24	2529.46	
4550.00	86.96	157.32	3012.44	2857.44	-2451.55	861.95	6463004.260	572430.070	N58 18 2.6283	W1 45 51.4115	3.27	2554.34	
4615.00	89.17	156.19	3014.63	2859.63	-2511.23	887.59	6462986.070	572437.880	N58 18 2.0358	W1 45 50.9523	3.82	2619.15	
4714.00	89.43	156.10	3015.84	2860.84	-2601.77	927.63	6462958.490	572450.080	N58 18 1.1369	W1 45 50.2344	0.28	2718.00	
4808.00	89.46	154.20	3016.75	2861.75	-2687.06	967.13	6462932.500	572462.110	N58 18 0.2897	W1 45 49.5247	2.02	2811.92	
4906.00	90.51	152.99	3016.78	2861.78	-2774.83	1010.71	6462905.760	572475.390	N58 17 59.4173	W1 45 48.7395	1.63	2909.91	
5001.00	91.34	152.90	3015.25	2860.25	-2859.42	1053.91	6462879.980	572488.550	N58 17 58.5763	W1 45 47.9603	0.88	3004.90	
5096.00	91.17	152.30	3013.17	2858.17	-2943.74	1097.62	6462854.290	572501.870	N58 17 57.7379	W1 45 47.1715	0.66	3099.88	
5192.00	91.97	152.90	3010.53	2855.53	-3028.94	1141.78	6462828.330	572515.330	N58 17 56.8908	W1 45 46.3746	1.04	3195.84	
5279.00	91.89	153.10	3007.61	2852.60	-3106.42	1181.26	6462804.720	572527.360	N58 17 56.1206	W1 45 45.6628	0.25	3282.79	
5382.00	91.77	152.80	3004.32	2849.32	-3198.10	1228.07	6462776.790	572541.620	N58 17 55.2090	W1 45 44.8184	0.31	3385.73	
5478.00	90.83	153.90	3002.14	2847.14	-3283.88	1271.12	6462750.650	572554.740	N58 17 54.3564	W1 45 44.0426	1.51	3481.71	
5572.00	92.29	153.00	2999.58	2844.58	-3367.93	1313.12	6462725.040	572567.530	N58 17 53.5209	W1 45 43.2858	1.82	3575.66	
5667.00	88.60	152.30	2998.84	2843.84	-3452.30	1356.76	6462699.330	572580.830	N58 17 52.6821	W1 45 42.4985	3.95	3670.64	
5762.00	91.63	152.70	2998.65	2843.65	-3536.55	1400.62	6462673.660	572594.190	N58 17 51.8443	W1 45 41.7069	3.22	3765.63	
5858.00	92.17	152.50	2995.47	2840.47	-3621.73	1444.77	6462647.710	572607.650	N58 17 50.9973	W1 45 40.9102	0.60	3861.57	
5955.00	93.18	152.70	2990.94	2835.94	-3707.76	1489.36	6462621.500	572621.230	N58 17 50.1419	W1 45 40.1056	1.06	3958.46	
6050.00	91.09	153.00	2987.40	2832.40	-3792.23	1532.68	6462595.760	572634.430	N58 17 49.3021	W1 45 39.3243	2.22	4053.39	
6146.00	92.89	152.90	2984.07	2829.07	-3877.67	1576.31	6462569.720	572647.730	N58 17 48.4527	W1 45 38.5376	1.88	4149.33	
6242.00	92.74	153.20	2979.35	2824.35	-3963.14	1619.76	6462543.680	572660.970	N58 17 47.6029	W1 45 37.7541	0.35	4245.21	
6337.00	91.20	152.80	2976.09	2821.09	-4047.73	1662.87	6462517.910	572674.100	N58 17 46.7619	W1 45 36.9769	1.67	4340.15	
6431.00	90.57	152.30	2974.64	2819.64	-4131.14	1706.19	6462492.490	572687.300	N58 17 45.9326	W1 45 36.1951	0.86	4434.14	
6526.00	88.63	152.10	2975.30	2820.30	-4215.17	1750.49	6462466.890	572700.800	N58 17 45.0969	W1 45 35.3953	2.05	4529.12	
6621.00	88.88	152.50	2977.36	2822.36	-4299.26	1794.65	6462441.270	572714.250	N58 17 44.2607	W1 45 34.5984	0.50	4624.09	
6717.00	89.14	152.40	2979.02	2824.02	-4384.36	1839.04	6462415.340	572727.780	N58 17 43.4144	W1 45 33.7972	0.29	4720.07	

MD	Inc	Azi	TVD	TVD(SS)	N/S	E/W	Grid Coordinates		Geographic Coordinates		DLS	VS	Comment
							Northing	Easting	Latitude	Longitude			
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(m)	(m)			(deg/100ft)	(ft)	
6813.00	88.83	152.10	2980.72	2825.72	-4469.31	1883.73	6462389.450	572741.400	N58 17 42.5697	W1 45 32.9905	0.45	4816.05	
6904.00	86.51	152.80	2984.42	2829.42	-4549.92	1925.78	6462364.890	572754.210	N58 17 41.7681	W1 45 32.2317	2.66	4906.96	
6997.00	86.00	153.50	2990.50	2835.50	-4632.71	1967.70	6462339.660	572766.980	N58 17 40.9450	W1 45 31.4761	0.93	4999.76	
7088.00	85.91	153.30	2996.92	2841.92	-4713.88	2008.34	6462314.930	572779.370	N58 17 40.1382	W1 45 30.7438	0.24	5090.54	
7182.00	86.17	153.80	3003.41	2848.41	-4797.84	2050.11	6462289.350	572792.090	N58 17 39.3037	W1 45 29.9915	0.60	5184.31	
7275.00	86.45	153.70	3009.39	2854.39	-4881.07	2091.16	6462263.990	572804.600	N58 17 38.4764	W1 45 29.2524	0.32	5277.11	
7367.00	86.80	152.30	3014.81	2859.81	-4962.90	2132.85	6462239.060	572817.310	N58 17 37.6629	W1 45 28.5007	1.57	5368.94	
7483.00	88.40	151.70	3019.67	2864.67	-5065.23	2187.26	6462207.880	572833.880	N58 17 36.6451	W1 45 27.5183	1.47	5484.82	
7552.00	89.71	152.20	3020.80	2865.80	-5126.11	2219.70	6462189.330	572843.770	N58 17 36.0395	W1 45 26.9324	2.03	5553.80	
7645.00	89.83	151.80	3021.18	2866.18	-5208.23	2263.36	6462164.310	572857.070	N58 17 35.2228	W1 45 26.1441	0.45	5646.78	
7738.00	90.40	151.40	3020.99	2865.99	-5290.03	2307.60	6462139.380	572870.550	N58 17 34.4090	W1 45 25.3450	0.75	5739.75	
7832.00	90.49	151.80	3020.26	2865.26	-5372.72	2352.30	6462114.190	572884.170	N58 17 33.5865	W1 45 24.5373	0.44	5833.72	
7929.00	87.14	152.30	3022.27	2867.27	-5458.37	2397.75	6462088.090	572898.020	N58 17 32.7346	W1 45 23.7168	3.49	5930.67	
8024.00	87.83	151.90	3026.43	2871.44	-5542.25	2442.16	6462062.530	572911.550	N58 17 31.9004	W1 45 22.9151	0.84	6025.57	
8119.00	86.08	152.00	3031.48	2876.48	-5625.97	2486.77	6462037.020	572925.140	N58 17 31.0677	W1 45 22.1096	1.85	6120.42	
8215.00	84.71	152.50	3039.19	2884.19	-5710.65	2531.32	6462011.220	572938.720	N58 17 30.2256	W1 45 21.3055	1.52	6216.10	
8310.00	85.22	152.30	3047.53	2892.53	-5794.52	2575.17	6461985.670	572952.080	N58 17 29.3916	W1 45 20.5144	0.58	6310.72	
8405.00	88.49	151.80	3052.74	2897.74	-5878.30	2619.62	6461960.140	572965.620	N58 17 28.5583	W1 45 19.7119	3.48	6405.55	
8441.00	88.80	151.30	3053.59	2898.59	-5909.94	2636.77	6461950.500	572970.850	N58 17 28.2435	W1 45 19.4022	1.63	6441.53	
8512.00	88.80	151.30	3055.08	2900.08	-5972.20	2670.86	6461931.520	572981.230	N58 17 27.6241	W1 45 18.7861	0.00	6512.49	