

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 #5	Vertical Section Azimuth:	134.76 deg
Well Name:	13/22a-C16y	Vertical Section Origin:	20.23S, 3.27W
Wellbore Name:	13/22a-C16y (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C16y Defintive 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 26.7314, W1 46 6.7672	North Reference:	Grid
Slot Location Grid N/E Y/X:	6463745.0760 m, 572166.4340 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	-20.23	-3.27	6463745.080	572166.430	N58 18 26.7314	W1 46 6.7672	0.00	0.00		
500.50	0.00	133.27	500.50	345.50	-20.23	-3.27	6463745.080	572166.430	N58 18 26.7314	W1 46 6.7672	0.00	0.00		
550.00	0.53	154.04	550.00	395.00	-20.44	-3.17	6463745.010	572166.460	N58 18 26.7293	W1 46 6.7654	1.07	0.22		
600.00	0.42	151.66	600.00	445.00	-20.81	-2.98	6463744.900	572166.520	N58 18 26.7256	W1 46 6.7620	0.22	0.61		
650.00	0.82	149.19	650.00	494.99	-21.27	-2.71	6463744.760	572166.600	N58 18 26.7210	W1 46 6.7571	0.80	1.13		
700.00	1.26	140.05	699.99	544.99	-22.00	-2.17	6463744.540	572166.770	N58 18 26.7137	W1 46 6.7473	0.94	2.03		
750.00	2.19	134.45	749.96	594.96	-23.09	-1.14	6463744.200	572167.080	N58 18 26.7028	W1 46 6.7283	1.89	3.53		
800.00	3.61	138.05	799.90	644.90	-24.93	0.59	6463743.640	572167.610	N58 18 26.6843	W1 46 6.6965	2.86	6.06		
850.00	5.30	139.26	849.75	694.74	-27.85	3.15	6463742.750	572168.390	N58 18 26.6551	W1 46 6.6496	3.39	9.93		
900.00	5.46	150.66	899.53	744.53	-31.68	5.83	6463741.590	572169.210	N58 18 26.6170	W1 46 6.6009	2.16	14.52		
950.00	5.31	164.38	949.31	794.31	-35.98	7.62	6463740.280	572169.750	N58 18 26.5743	W1 46 6.5689	2.59	18.82		
1000.00	5.10	159.25	999.10	844.10	-40.28	9.03	6463738.970	572170.180	N58 18 26.5316	W1 46 6.5440	1.02	22.85		
1050.00	5.28	157.46	1048.90	893.90	-44.49	10.70	6463737.680	572170.690	N58 18 26.4899	W1 46 6.5142	0.48	27.00		
1100.00	5.48	150.90	1098.68	943.68	-48.70	12.74	6463736.400	572171.310	N58 18 26.4481	W1 46 6.4774	1.29	31.41		
1150.00	6.44	148.44	1148.41	993.41	-53.17	15.37	6463735.040	572172.110	N58 18 26.4035	W1 46 6.4297	1.99	36.43		
1200.00	8.14	144.74	1198.00	1043.00	-58.45	18.88	6463733.430	572173.180	N58 18 26.3509	W1 46 6.3658	3.53	42.64		
1250.00	10.51	142.54	1247.34	1092.34	-64.97	23.70	6463731.450	572174.650	N58 18 26.2859	W1 46 6.2779	4.79	50.65		
1300.00	12.83	141.95	1296.30	1141.30	-72.96	29.89	6463729.010	572176.540	N58 18 26.2060	W1 46 6.1647	4.65	60.67		
1350.00	14.22	141.46	1344.91	1189.91	-82.13	37.14	6463726.210	572178.750	N58 18 26.1144	W1 46 6.0322	2.79	72.28		
1400.00	15.99	141.60	1393.18	1238.18	-92.33	45.25	6463723.110	572181.220	N58 18 26.0124	W1 46 5.8840	3.54	85.22		
1450.00	17.59	140.44	1441.05	1286.05	-103.56	54.34	6463719.690	572183.990	N58 18 25.9003	W1 46 5.7178	3.27	99.58		
1500.00	19.20	138.54	1488.49	1333.49	-115.55	64.59	6463716.030	572187.110	N58 18 25.7803	W1 46 5.5300	3.44	115.30		
1550.00	20.98	137.10	1535.45	1380.45	-128.26	76.13	6463712.160	572190.630	N58 18 25.6530	W1 46 5.3184	3.69	132.45		
1600.00	22.52	135.00	1581.89	1426.89	-141.59	88.99	6463708.100	572194.550	N58 18 25.5194	W1 46 5.0822	3.45	150.97		
1650.00	23.72	134.49	1627.87	1472.87	-155.41	102.94	6463703.890	572198.800	N58 18 25.3808	W1 46 4.8260	2.43	170.60		
1690.00	24.75	134.68	1664.35	1509.35	-166.94	114.63	6463700.370	572202.360	N58 18 25.2651	W1 46 4.6112	2.58	187.02		
1700.00	24.79	133.48	1673.43	1518.43	-169.85	117.64	6463699.490	572203.280	N58 18 25.2359	W1 46 4.5558	5.04	191.21		
1725.00	25.07	133.76	1696.10	1541.10	-177.12	125.27	6463697.270	572205.600	N58 18 25.1629	W1 46 4.4156	1.22	201.75		

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			
1750.00	25.41	133.87	1718.71	1563.71	-184.50	132.96	6463695.020	572207.940	N58 18 25.0888	W1 46 4.2742	1.37	212.40	
1775.00	25.74	133.87	1741.26	1586.26	-191.98	140.74	6463692.740	572210.310	N58 18 25.0138	W1 46 4.1311	1.32	223.20	
1800.00	26.62	133.59	1763.70	1608.70	-199.61	148.71	6463690.420	572212.740	N58 18 24.9372	W1 46 3.9846	3.55	234.22	
1825.00	27.87	133.34	1785.92	1630.92	-207.48	157.02	6463688.020	572215.270	N58 18 24.8582	W1 46 3.8318	5.02	245.66	
1850.00	28.56	133.27	1807.95	1652.95	-215.59	165.62	6463685.550	572217.890	N58 18 24.7768	W1 46 3.6737	2.76	257.48	
1875.00	29.28	133.12	1829.83	1674.83	-223.86	174.44	6463683.030	572220.580	N58 18 24.6937	W1 46 3.5116	2.89	269.57	
1900.00	30.50	133.58	1851.51	1696.51	-232.41	183.50	6463680.420	572223.340	N58 18 24.6078	W1 46 3.3450	4.97	282.02	
1925.00	31.56	133.80	1872.93	1717.93	-241.32	192.81	6463677.710	572226.180	N58 18 24.5185	W1 46 3.1737	4.26	294.90	
1950.00	32.42	133.97	1894.13	1739.13	-250.50	202.36	6463674.910	572229.090	N58 18 24.4263	W1 46 2.9982	3.46	308.15	
1975.00	33.65	134.42	1915.09	1760.09	-260.00	212.13	6463672.020	572232.070	N58 18 24.3310	W1 46 2.8186	5.02	321.77	
2000.00	34.71	134.76	1935.77	1780.77	-269.86	222.13	6463669.020	572235.110	N58 18 24.2321	W1 46 2.6349	4.31	335.82	
2025.00	35.52	135.06	1956.22	1801.22	-280.01	232.31	6463665.920	572238.220	N58 18 24.1302	W1 46 2.4478	3.31	350.20	
2050.00	36.23	135.10	1976.48	1821.48	-290.38	242.66	6463662.760	572241.370	N58 18 24.0262	W1 46 2.2577	2.84	364.85	
2075.00	37.19	135.10	1996.52	1841.52	-300.97	253.21	6463659.540	572244.580	N58 18 23.9200	W1 46 2.0640	3.84	379.79	
2100.00	38.15	135.04	2016.31	1861.31	-311.79	264.00	6463656.240	572247.870	N58 18 23.8116	W1 46 1.8658	3.84	395.07	
2125.00	38.98	135.04	2035.86	1880.86	-322.81	275.01	6463652.880	572251.220	N58 18 23.7010	W1 46 1.6635	3.32	410.66	
2150.00	39.92	134.77	2055.16	1900.16	-334.03	286.26	6463649.460	572254.650	N58 18 23.5885	W1 46 1.4568	3.82	426.54	
2175.00	41.00	134.54	2074.18	1919.18	-345.43	297.80	6463645.990	572258.170	N58 18 23.4741	W1 46 1.2448	4.36	442.76	
2200.00	42.03	134.22	2092.90	1937.90	-357.02	309.64	6463642.460	572261.780	N58 18 23.3578	W1 46 1.0271	4.21	459.33	
2225.00	42.70	134.17	2111.37	1956.37	-368.76	321.72	6463638.880	572265.460	N58 18 23.2400	W1 46 0.8051	2.68	476.18	
2250.00	43.55	134.16	2129.62	1974.62	-380.67	333.98	6463635.250	572269.190	N58 18 23.1205	W1 46 0.5798	3.40	493.27	
2275.00	44.71	133.71	2147.56	1992.56	-392.74	346.52	6463631.570	572273.010	N58 18 22.9993	W1 46 0.3494	4.81	510.67	
2300.00	45.88	133.39	2165.15	2010.15	-404.99	359.40	6463627.840	572276.940	N58 18 22.8764	W1 46 0.1126	4.77	528.44	
2325.00	46.77	133.19	2182.41	2027.41	-417.38	372.56	6463624.060	572280.950	N58 18 22.7519	W1 45 59.8706	3.61	546.51	
2350.00	47.66	133.30	2199.40	2044.40	-429.95	385.92	6463620.230	572285.020	N58 18 22.6257	W1 45 59.6248	3.57	564.85	
2375.00	48.47	133.33	2216.10	2061.10	-442.71	399.45	6463616.350	572289.140	N58 18 22.4976	W1 45 59.3760	3.24	583.44	
2400.00	49.30	133.28	2232.54	2077.54	-455.63	413.16	6463612.410	572293.320	N58 18 22.3679	W1 45 59.1239	3.32	602.27	
2425.00	50.25	133.26	2248.69	2093.69	-468.71	427.06	6463608.420	572297.550	N58 18 22.2365	W1 45 58.8683	3.80	621.35	
2450.00	51.12	133.21	2264.53	2109.53	-481.96	441.15	6463604.390	572301.850	N58 18 22.1035	W1 45 58.6092	3.48	640.69	
2475.00	52.06	133.28	2280.06	2125.06	-495.38	455.42	6463600.300	572306.200	N58 18 21.9687	W1 45 58.3468	3.77	660.27	
2500.00	52.84	133.17	2295.29	2140.29	-508.96	469.86	6463596.160	572310.600	N58 18 21.8324	W1 45 58.0812	3.14	680.08	
2525.00	53.70	133.03	2310.24	2155.24	-522.65	484.49	6463591.990	572315.050	N58 18 21.6949	W1 45 57.8121	3.47	700.11	
2550.00	54.83	133.13	2324.85	2169.85	-536.51	499.31	6463587.770	572319.570	N58 18 21.5557	W1 45 57.5395	4.53	720.40	
2575.00	55.67	133.14	2339.09	2184.10	-550.55	514.30	6463583.490	572324.140	N58 18 21.4147	W1 45 57.2639	3.36	740.93	
2600.00	56.17	132.93	2353.10	2198.10	-564.68	529.44	6463579.180	572328.750	N58 18 21.2728	W1 45 56.9855	2.12	761.63	
2625.00	56.83	132.81	2366.90	2211.90	-578.87	544.72	6463574.860	572333.400	N58 18 21.1303	W1 45 56.7045	2.67	782.46	
2650.00	57.56	132.67	2380.45	2225.45	-593.13	560.15	6463570.520	572338.110	N58 18 20.9871	W1 45 56.4206	2.96	803.46	
2675.00	58.33	132.69	2393.72	2238.72	-607.49	575.73	6463566.140	572342.850	N58 18 20.8428	W1 45 56.1341	3.08	824.64	
2700.00	58.48	132.49	2406.81	2251.81	-621.90	591.40	6463561.750	572347.630	N58 18 20.6980	W1 45 55.8457	0.91	845.92	
2725.00	58.56	132.43	2419.87	2264.87	-636.29	607.13	6463557.360	572352.420	N58 18 20.5534	W1 45 55.5563	0.38	867.22	
2750.00	58.64	132.51	2432.89	2277.89	-650.70	622.87	6463552.970	572357.220	N58 18 20.4087	W1 45 55.2667	0.42	888.54	
2775.00	58.69	132.50	2445.89	2290.89	-665.13	638.62	6463548.580	572362.010	N58 18 20.2637	W1 45 54.9771	0.20	909.88	
2800.00	58.88	132.48	2458.85	2303.85	-679.57	654.38	6463544.180	572366.820	N58 18 20.1186	W1 45 54.6870	0.76	931.24	
2825.00	58.81	132.44	2471.78	2316.78	-694.02	670.16	6463539.780	572371.630	N58 18 19.9735	W1 45 54.3966	0.31	952.62	

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			
2850.00	58.92	132.42	2484.71	2329.71	-708.45	685.96	6463535.380	572376.440	N58 18 19.8285	W1 45 54.1060	0.45	974.00	
2875.00	58.97	132.42	2497.61	2342.61	-722.90	701.77	6463530.970	572381.260	N58 18 19.6833	W1 45 53.8152	0.20	995.40	
2900.00	59.10	132.45	2510.47	2355.47	-737.37	717.59	6463526.570	572386.080	N58 18 19.5380	W1 45 53.5241	0.53	1016.82	
2925.00	59.35	132.54	2523.26	2368.26	-751.88	733.43	6463522.150	572390.900	N58 18 19.3922	W1 45 53.2327	1.05	1038.28	
2950.00	59.35	132.57	2536.01	2381.01	-766.42	749.27	6463517.710	572395.730	N58 18 19.2461	W1 45 52.9413	0.10	1059.77	
2975.00	59.41	132.53	2548.74	2393.74	-780.97	765.12	6463513.280	572400.560	N58 18 19.0999	W1 45 52.6497	0.28	1081.27	
3000.00	59.50	132.57	2561.45	2406.45	-795.53	780.98	6463508.840	572405.390	N58 18 18.9537	W1 45 52.3579	0.39	1102.78	
3025.00	59.59	132.70	2574.12	2419.12	-810.13	796.84	6463504.400	572410.220	N58 18 18.8070	W1 45 52.0662	0.57	1124.32	
3050.00	59.74	132.75	2586.74	2431.74	-824.76	812.69	6463499.940	572415.050	N58 18 18.6600	W1 45 51.7747	0.62	1145.88	
3075.00	59.65	132.70	2599.36	2444.36	-839.41	828.54	6463495.470	572419.890	N58 18 18.5129	W1 45 51.4830	0.40	1167.45	
3100.00	59.59	132.61	2612.00	2457.00	-854.02	844.40	6463491.020	572424.720	N58 18 18.3661	W1 45 51.1912	0.39	1189.01	
3125.00	59.60	132.57	2624.66	2469.65	-868.62	860.28	6463486.580	572429.550	N58 18 18.2195	W1 45 50.8992	0.14	1210.55	
3150.00	59.67	132.51	2637.29	2482.29	-883.20	876.17	6463482.130	572434.400	N58 18 18.0730	W1 45 50.6068	0.35	1232.11	
3175.00	59.92	132.63	2649.87	2494.87	-897.82	892.08	6463477.680	572439.250	N58 18 17.9261	W1 45 50.3141	1.08	1253.70	
3200.00	59.89	132.60	2662.41	2507.41	-912.46	908.00	6463473.220	572444.100	N58 18 17.7790	W1 45 50.0213	0.16	1275.31	
3225.00	59.80	132.51	2674.96	2519.96	-927.08	923.92	6463468.760	572448.950	N58 18 17.6321	W1 45 49.7284	0.48	1296.91	
3250.00	59.85	132.56	2687.53	2532.53	-941.69	939.85	6463464.310	572453.800	N58 18 17.4853	W1 45 49.4354	0.26	1318.51	
3275.00	60.72	132.61	2699.92	2544.92	-956.38	955.84	6463459.830	572458.670	N58 18 17.3377	W1 45 49.1413	3.48	1340.21	
3300.00	62.39	132.72	2711.83	2556.83	-971.28	972.00	6463455.290	572463.600	N58 18 17.1881	W1 45 48.8440	6.69	1362.17	
3325.00	63.95	132.63	2723.11	2568.11	-986.40	988.40	6463450.690	572468.590	N58 18 17.0362	W1 45 48.5423	6.25	1384.47	
3350.00	65.34	132.65	2733.82	2578.82	-1001.70	1005.02	6463446.020	572473.660	N58 18 16.8825	W1 45 48.2366	5.56	1407.04	
3375.00	66.89	132.60	2743.94	2588.94	-1017.18	1021.84	6463441.310	572478.780	N58 18 16.7270	W1 45 47.9272	6.20	1429.88	
3400.00	68.52	132.50	2753.42	2598.42	-1032.82	1038.88	6463436.540	572483.970	N58 18 16.5698	W1 45 47.6138	6.53	1453.00	
3425.00	69.82	132.50	2762.31	2607.31	-1048.61	1056.11	6463431.730	572489.220	N58 18 16.4112	W1 45 47.2969	5.20	1476.34	
3450.00	70.13	132.32	2770.88	2615.87	-1064.45	1073.45	6463426.900	572494.510	N58 18 16.2521	W1 45 46.9778	1.41	1499.81	
3475.00	71.27	132.19	2779.14	2624.14	-1080.32	1090.91	6463422.070	572499.830	N58 18 16.0926	W1 45 46.6565	4.59	1523.39	
3500.00	72.81	132.07	2786.85	2631.85	-1096.27	1108.55	6463417.210	572505.200	N58 18 15.9323	W1 45 46.3320	6.18	1547.14	
3525.00	73.73	132.09	2794.04	2639.04	-1112.31	1126.32	6463412.320	572510.620	N58 18 15.7711	W1 45 46.0050	3.68	1571.06	
3550.00	74.40	131.96	2800.91	2645.91	-1128.41	1144.18	6463407.420	572516.060	N58 18 15.6093	W1 45 45.6764	2.73	1595.07	
3575.00	75.80	131.90	2807.34	2652.33	-1144.55	1162.15	6463402.500	572521.530	N58 18 15.4471	W1 45 45.3457	5.60	1619.20	
3600.00	77.42	131.95	2813.12	2658.12	-1160.80	1180.24	6463397.550	572527.050	N58 18 15.2838	W1 45 45.0127	6.48	1643.49	
3625.00	77.89	132.43	2818.47	2663.47	-1177.20	1198.34	6463392.550	572532.560	N58 18 15.1189	W1 45 44.6798	2.66	1667.88	
3650.00	78.52	132.95	2823.58	2668.58	-1193.80	1216.33	6463387.490	572538.040	N58 18 14.9523	W1 45 44.3489	3.24	1692.34	
3675.00	80.06	133.34	2828.22	2673.22	-1210.59	1234.25	6463382.380	572543.500	N58 18 14.7836	W1 45 44.0193	6.35	1716.89	
3700.00	81.57	133.56	2832.22	2677.22	-1227.57	1252.16	6463377.200	572548.960	N58 18 14.6132	W1 45 43.6899	6.10	1741.57	
3725.00	82.10	133.87	2835.77	2680.77	-1244.67	1270.05	6463371.990	572554.410	N58 18 14.4415	W1 45 43.3612	2.45	1766.31	
3750.00	82.64	134.17	2839.09	2684.09	-1261.89	1287.87	6463366.750	572559.840	N58 18 14.2687	W1 45 43.0337	2.47	1791.09	
3775.00	83.54	134.72	2842.09	2687.09	-1279.26	1305.59	6463361.450	572565.240	N58 18 14.0943	W1 45 42.7081	4.21	1815.90	
3800.00	84.11	135.38	2844.78	2689.78	-1296.85	1323.15	6463356.090	572570.590	N58 18 13.9178	W1 45 42.3856	3.48	1840.76	
3825.00	84.25	135.54	2847.32	2692.32	-1314.58	1340.59	6463350.690	572575.900	N58 18 13.7401	W1 45 42.0653	0.85	1865.63	
3850.00	84.20	135.34	2849.83	2694.83	-1332.30	1358.04	6463345.290	572581.220	N58 18 13.5624	W1 45 41.7449	0.82	1890.50	
3875.00	84.35	135.10	2852.33	2697.33	-1349.96	1375.57	6463339.910	572586.560	N58 18 13.3853	W1 45 41.4231	1.13	1915.37	
3900.00	84.50	135.06	2854.76	2699.76	-1367.58	1393.14	6463334.540	572591.910	N58 18 13.2086	W1 45 41.1004	0.62	1940.25	
3925.00	84.74	135.08	2857.10	2702.10	-1385.20	1410.71	6463329.170	572597.270	N58 18 13.0318	W1 45 40.7776	0.96	1965.14	

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			
3950.00	85.53	135.16	2859.22	2704.22	-1402.85	1428.29	6463323.790	572602.630	N58 18 12.8548	W1 45 40.4548	3.18	1990.05	
3975.00	85.87	135.28	2861.09	2706.09	-1420.55	1445.85	6463318.400	572607.980	N58 18 12.6773	W1 45 40.1323	1.44	2014.98	
4000.00	85.95	135.31	2862.88	2707.88	-1438.27	1463.39	6463313.000	572613.320	N58 18 12.4996	W1 45 39.8102	0.34	2039.92	
4025.00	86.18	135.40	2864.59	2709.59	-1456.02	1480.92	6463307.600	572618.660	N58 18 12.3216	W1 45 39.4884	0.99	2064.86	
4050.00	86.38	135.21	2866.22	2711.21	-1473.75	1498.46	6463302.190	572624.010	N58 18 12.1438	W1 45 39.1662	1.10	2089.80	
4075.00	86.26	135.10	2867.82	2712.82	-1491.44	1516.06	6463296.800	572629.370	N58 18 11.9664	W1 45 38.8431	0.65	2114.75	
4100.00	85.95	134.87	2869.52	2714.52	-1509.07	1533.70	6463291.430	572634.740	N58 18 11.7895	W1 45 38.5191	1.54	2139.69	
4125.00	85.39	135.25	2871.41	2716.41	-1526.71	1551.31	6463286.050	572640.110	N58 18 11.6125	W1 45 38.1957	2.70	2164.62	
4150.00	84.82	136.00	2873.54	2718.54	-1544.52	1568.73	6463280.630	572645.420	N58 18 11.4340	W1 45 37.8759	3.76	2189.53	
4175.00	84.53	136.32	2875.86	2720.86	-1562.47	1585.97	6463275.160	572650.670	N58 18 11.2540	W1 45 37.5595	1.72	2214.41	
4200.00	84.49	136.27	2878.25	2723.25	-1580.46	1603.16	6463269.680	572655.910	N58 18 11.0737	W1 45 37.2440	0.26	2239.29	
4225.00	84.79	136.30	2880.59	2725.59	-1598.45	1620.36	6463264.200	572661.150	N58 18 10.8934	W1 45 36.9283	1.21	2264.17	
4250.00	85.29	136.40	2882.75	2727.75	-1616.47	1637.56	6463258.700	572666.390	N58 18 10.7128	W1 45 36.6129	2.04	2289.07	
4275.00	85.80	136.44	2884.69	2729.69	-1634.53	1654.74	6463253.200	572671.620	N58 18 10.5319	W1 45 36.2976	2.05	2313.98	
4300.00	85.88	136.45	2886.50	2731.50	-1652.60	1671.92	6463247.700	572676.860	N58 18 10.3508	W1 45 35.9824	0.32	2338.90	
4325.00	86.01	136.51	2888.27	2733.27	-1670.68	1689.09	6463242.190	572682.090	N58 18 10.1695	W1 45 35.6673	0.57	2363.83	
4350.00	86.11	136.40	2889.99	2734.99	-1688.76	1706.27	6463236.680	572687.330	N58 18 9.9884	W1 45 35.3521	0.59	2388.76	
4375.00	86.18	136.28	2891.67	2736.67	-1706.81	1723.49	6463231.180	572692.570	N58 18 9.8075	W1 45 35.0361	0.55	2413.69	
4400.00	86.23	136.13	2893.32	2738.32	-1724.81	1740.76	6463225.690	572697.830	N58 18 9.6270	W1 45 34.7193	0.63	2438.63	
4425.00	86.24	136.09	2894.97	2739.97	-1742.79	1758.05	6463220.220	572703.100	N58 18 9.4468	W1 45 34.4019	0.16	2463.57	
4450.00	86.40	135.95	2896.57	2741.57	-1760.74	1775.38	6463214.750	572708.380	N58 18 9.2669	W1 45 34.0839	0.85	2488.51	
4475.00	86.44	136.06	2898.13	2743.13	-1778.69	1792.71	6463209.280	572713.660	N58 18 9.0869	W1 45 33.7659	0.47	2513.46	
4500.00	86.02	136.47	2899.78	2744.77	-1796.72	1809.95	6463203.780	572718.920	N58 18 8.9063	W1 45 33.4494	2.35	2538.39	
4525.00	85.62	136.74	2901.60	2746.60	-1814.84	1827.08	6463198.260	572724.140	N58 18 8.7247	W1 45 33.1352	1.93	2563.32	
4550.00	85.58	136.71	2903.51	2748.51	-1832.98	1844.17	6463192.730	572729.340	N58 18 8.5429	W1 45 32.8217	0.20	2588.23	
4575.00	85.55	136.79	2905.45	2750.45	-1851.14	1861.25	6463187.200	572734.550	N58 18 8.3609	W1 45 32.5084	0.34	2613.14	
4600.00	85.74	136.75	2907.35	2752.35	-1869.30	1878.32	6463181.670	572739.750	N58 18 8.1790	W1 45 32.1952	0.78	2638.05	
4625.00	86.06	136.66	2909.13	2754.13	-1887.45	1895.42	6463176.140	572744.960	N58 18 7.9971	W1 45 31.8816	1.33	2662.97	
4681.00	86.08	136.31	2912.97	2757.97	-1927.96	1933.89	6463163.790	572756.680	N58 18 7.5911	W1 45 31.1758	0.62	2718.81	
4759.00	85.79	136.46	2918.50	2763.50	-1984.29	1987.56	6463146.630	572773.030	N58 18 7.0265	W1 45 30.1911	0.42	2796.59	
4853.00	85.19	136.46	2925.89	2770.89	-2052.22	2052.11	6463125.930	572792.700	N58 18 6.3457	W1 45 29.0068	0.64	2890.25	
4944.00	85.74	136.18	2933.09	2778.09	-2117.83	2114.76	6463105.940	572811.790	N58 18 5.6882	W1 45 27.8572	0.68	2980.93	
5035.00	86.05	136.30	2939.60	2784.60	-2183.38	2177.54	6463085.970	572830.920	N58 18 5.0311	W1 45 26.7053	0.37	3071.67	
5045.00	85.96	136.15	2940.30	2785.30	-2190.59	2184.44	6463083.770	572833.020	N58 18 4.9589	W1 45 26.5787	1.75	3081.64	
5068.00	85.77	135.84	2941.96	2786.96	-2207.09	2200.38	6463078.750	572837.880	N58 18 4.7935	W1 45 26.2862	1.58	3104.58	
5128.00	85.25	135.03	2946.66	2791.65	-2249.70	2242.35	6463065.760	572850.670	N58 18 4.3661	W1 45 25.5156	1.60	3164.39	
5219.00	85.40	135.09	2954.07	2799.07	-2313.90	2306.42	6463046.200	572870.190	N58 18 3.7221	W1 45 24.3392	0.18	3255.09	
5285.00	87.58	134.30	2958.11	2803.11	-2360.23	2353.24	6463032.080	572884.460	N58 18 3.2573	W1 45 23.4791	3.51	3320.96	
5309.00	88.37	134.02	2958.96	2803.96	-2376.94	2370.45	6463026.990	572889.700	N58 18 3.0896	W1 45 23.1630	3.49	3344.94	
5396.00	88.63	134.19	2961.24	2806.24	-2437.47	2432.90	6463008.550	572908.730	N58 18 2.4821	W1 45 22.0155	0.36	3431.90	
5491.00	88.14	134.51	2963.92	2808.91	-2503.85	2500.80	6462988.320	572929.420	N58 18 1.8159	W1 45 20.7680	0.62	3526.86	
5583.00	88.83	134.25	2966.35	2811.35	-2568.18	2566.54	6462968.720	572949.450	N58 18 1.1704	W1 45 19.5605	0.80	3618.83	
5674.00	87.60	134.84	2969.18	2814.18	-2631.98	2631.36	6462949.280	572969.200	N58 18 0.5302	W1 45 18.3698	1.50	3709.78	
5762.00	87.85	136.14	2972.68	2817.68	-2694.68	2693.00	6462930.180	572987.980	N58 17 59.9014	W1 45 17.2382	1.50	3797.70	

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			
5854.00	88.14	136.34	2975.89	2820.89	-2761.09	2756.59	6462909.940	573007.360	N58 17 59.2357	W1 45 16.0715	0.38	3889.62	
5950.00	89.80	136.25	2977.62	2822.62	-2830.47	2822.91	6462888.800	573027.560	N58 17 58.5403	W1 45 14.8548	1.73	3985.56	
6041.00	90.63	136.03	2977.28	2822.28	-2896.09	2885.96	6462868.810	573046.780	N58 17 57.8825	W1 45 13.6979	0.94	4076.54	
6133.00	90.09	135.39	2976.70	2821.70	-2961.94	2950.20	6462848.740	573066.350	N58 17 57.2222	W1 45 12.5189	0.91	4168.52	
6225.00	90.80	135.43	2975.99	2820.99	-3027.45	3014.79	6462828.780	573086.030	N58 17 56.5651	W1 45 11.3333	0.77	4260.51	
6315.00	90.60	135.44	2974.89	2819.89	-3091.57	3077.94	6462809.250	573105.270	N58 17 55.9221	W1 45 10.1741	0.22	4350.50	
6407.00	90.54	137.33	2973.97	2818.97	-3158.17	3141.39	6462788.950	573124.600	N58 17 55.2546	W1 45 9.0100	2.06	4442.45	
6499.00	90.37	137.77	2973.24	2818.24	-3226.05	3203.49	6462768.270	573143.520	N58 17 54.5747	W1 45 7.8719	0.51	4534.34	
6550.00	88.83	138.03	2973.60	2818.60	-3263.89	3237.68	6462756.740	573153.940	N58 17 54.1957	W1 45 7.2454	3.06	4585.26	
6591.00	87.60	138.30	2974.87	2819.87	-3294.42	3265.01	6462747.440	573162.270	N58 17 53.8900	W1 45 6.7446	3.07	4626.17	
6684.00	91.23	138.13	2975.82	2820.82	-3363.75	3326.97	6462726.310	573181.150	N58 17 53.1959	W1 45 5.6096	3.91	4718.98	
6772.00	91.29	137.68	2973.89	2818.89	-3429.04	3385.94	6462706.420	573199.120	N58 17 52.5421	W1 45 4.5290	0.52	4806.82	
6864.00	90.29	136.81	2972.62	2817.62	-3496.58	3448.39	6462685.840	573218.150	N58 17 51.8654	W1 45 3.3841	1.44	4898.73	
6928.00	90.27	136.80	2972.31	2817.31	-3543.24	3492.20	6462671.620	573231.490	N58 17 51.3979	W1 45 2.5808	0.03	4962.69	
6958.00	90.26	136.80	2972.17	2817.17	-3565.11	3512.73	6462664.960	573237.750	N58 17 51.1787	W1 45 2.2042	0.03	4992.67	
7046.00	89.57	135.73	2972.30	2817.30	-3628.69	3573.57	6462645.590	573256.290	N58 17 50.5414	W1 45 1.0882	1.45	5080.63	
7166.00	90.14	137.72	2972.60	2817.60	-3716.05	3655.82	6462618.970	573281.350	N58 17 49.6659	W1 44 59.5798	1.73	5200.56	
7255.00	87.43	137.99	2974.49	2819.49	-3782.02	3715.52	6462598.870	573299.540	N58 17 49.0052	W1 44 58.4859	3.06	5289.40	
7346.00	87.57	139.01	2978.46	2823.46	-3850.11	3775.76	6462578.120	573317.900	N58 17 48.3235	W1 44 57.3826	1.13	5380.12	
7437.00	88.34	140.79	2981.71	2826.71	-3919.67	3834.34	6462556.930	573335.740	N58 17 47.6277	W1 44 56.3110	2.13	5470.69	
7529.00	88.06	144.10	2984.60	2829.60	-3992.56	3890.38	6462534.720	573352.820	N58 17 46.8996	W1 44 55.2880	3.61	5561.80	
7622.00	87.97	147.41	2987.82	2832.82	-4069.38	3942.68	6462511.310	573368.750	N58 17 46.1334	W1 44 54.3364	3.56	5653.03	
7714.00	88.63	149.15	2990.55	2835.55	-4147.60	3991.02	6462487.480	573383.480	N58 17 45.3541	W1 44 53.4592	2.02	5742.44	
7805.00	89.86	149.74	2991.75	2836.75	-4225.95	4037.28	6462463.600	573397.580	N58 17 44.5739	W1 44 52.6212	1.50	5830.45	
7897.00	89.86	150.38	2991.97	2836.97	-4305.68	4083.20	6462439.310	573411.570	N58 17 43.7803	W1 44 51.7900	0.70	5919.19	
7987.00	90.94	151.02	2991.34	2836.34	-4384.16	4127.24	6462415.400	573424.990	N58 17 42.9992	W1 44 50.9934	1.39	6005.73	
8077.00	90.51	151.30	2990.20	2835.20	-4462.99	4170.65	6462391.380	573438.220	N58 17 42.2148	W1 44 50.2088	0.57	6092.06	
8167.00	90.63	152.38	2989.31	2834.31	-4542.33	4213.12	6462367.200	573451.160	N58 17 41.4256	W1 44 49.4420	1.21	6178.09	
8259.00	90.40	153.18	2988.48	2833.48	-4624.14	4255.20	6462342.280	573463.980	N58 17 40.6121	W1 44 48.6833	0.90	6265.57	
8350.00	91.14	153.72	2987.26	2832.26	-4705.53	4295.87	6462317.480	573476.370	N58 17 39.8030	W1 44 47.9509	1.01	6351.76	
8441.00	92.23	153.92	2984.58	2829.58	-4787.16	4336.00	6462292.600	573488.600	N58 17 38.9916	W1 44 47.2286	1.22	6437.73	
8531.00	91.89	154.14	2981.35	2826.35	-4868.02	4375.39	6462267.970	573500.600	N58 17 38.1880	W1 44 46.5201	0.45	6522.64	
8622.00	91.92	154.23	2978.32	2823.32	-4949.90	4414.99	6462243.020	573512.670	N58 17 37.3743	W1 44 45.8077	0.10	6608.41	
8718.00	89.80	154.08	2976.88	2821.88	-5036.28	4456.83	6462216.700	573525.420	N58 17 36.5159	W1 44 45.0551	2.21	6698.95	
8819.00	90.66	155.60	2976.48	2821.48	-5127.69	4499.77	6462188.840	573538.500	N58 17 35.6076	W1 44 44.2838	1.73	6793.80	
8911.00	90.74	156.20	2975.35	2820.35	-5211.67	4537.33	6462163.260	573549.940	N58 17 34.7736	W1 44 43.6105	0.66	6879.60	
9002.00	91.09	154.70	2973.90	2818.90	-5294.43	4575.14	6462138.040	573561.460	N58 17 33.9516	W1 44 42.9322	1.69	6964.72	
9093.00	90.29	152.40	2972.80	2817.80	-5375.89	4615.67	6462113.220	573573.810	N58 17 33.1418	W1 44 42.2025	2.68	7050.86	
9187.00	90.66	152.60	2972.03	2817.02	-5459.27	4659.07	6462087.820	573587.040	N58 17 32.3126	W1 44 41.4198	0.45	7140.39	
9279.00	88.68	152.20	2972.55	2817.55	-5540.79	4701.69	6462062.970	573600.020	N58 17 31.5018	W1 44 40.6510	2.20	7228.05	
9370.00	89.14	152.50	2974.29	2819.29	-5621.38	4743.91	6462038.420	573612.890	N58 17 30.7003	W1 44 39.8894	0.60	7314.78	
9459.00	89.37	152.30	2975.44	2820.44	-5700.25	4785.14	6462014.390	573625.450	N58 17 29.9160	W1 44 39.1457	0.34	7399.59	
9552.00	89.71	152.02	2976.19	2821.19	-5782.48	4828.57	6461989.330	573638.680	N58 17 29.0981	W1 44 38.3620	0.47	7488.33	
9644.00	89.66	152.01	2976.70	2821.70	-5863.72	4871.74	6461964.580	573651.840	N58 17 28.2900	W1 44 37.5829	0.06	7576.19	

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			
9734.00	89.63	151.69	2977.25	2822.25	-5943.07	4914.20	6461940.400	573664.770	N58 17 27.5006	W1 44 36.8165	0.36	7662.21	
9827.00	88.77	151.48	2978.55	2823.55	-6024.86	4958.45	6461915.480	573678.260	N58 17 26.6869	W1 44 36.0174	0.95	7751.22	
9918.00	88.08	151.93	2981.05	2826.05	-6104.96	5001.57	6461891.070	573691.400	N58 17 25.8901	W1 44 35.2389	0.91	7838.24	
10007.00	88.03	153.30	2984.07	2829.07	-6183.94	5042.48	6461867.010	573703.860	N58 17 25.1047	W1 44 34.5012	1.54	7922.90	
10101.00	88.60	153.59	2986.84	2831.84	-6267.98	5084.48	6461841.400	573716.660	N58 17 24.2692	W1 44 33.7449	0.68	8011.91	
10193.00	88.91	153.32	2988.84	2833.84	-6350.27	5125.59	6461816.330	573729.180	N58 17 23.4512	W1 44 33.0049	0.45	8099.03	
10284.00	88.34	153.40	2991.02	2836.02	-6431.58	5166.38	6461791.550	573741.610	N58 17 22.6428	W1 44 32.2703	0.63	8185.25	
10375.00	89.06	153.30	2993.09	2838.08	-6512.89	5207.19	6461766.780	573754.050	N58 17 21.8344	W1 44 31.5355	0.80	8271.48	
10468.00	89.34	153.40	2994.38	2839.38	-6596.01	5248.90	6461741.450	573766.760	N58 17 21.0081	W1 44 30.7845	0.32	8359.62	
10561.00	90.09	153.20	2994.85	2839.85	-6679.09	5290.68	6461716.140	573779.490	N58 17 20.1822	W1 44 30.0320	0.83	8447.79	
10653.00	88.86	153.30	2995.69	2840.69	-6761.23	5332.09	6461691.110	573792.100	N58 17 19.3654	W1 44 29.2863	1.34	8535.04	
10743.00	88.77	153.43	2997.55	2842.55	-6841.67	5372.43	6461666.600	573804.400	N58 17 18.5658	W1 44 28.5600	0.18	8620.32	
10835.00	88.43	153.38	2999.80	2844.80	-6923.91	5413.60	6461641.540	573816.940	N58 17 17.7482	W1 44 27.8186	0.37	8707.46	
10898.00	89.14	153.20	3001.13	2846.13	-6980.17	5441.91	6461624.400	573825.570	N58 17 17.1888	W1 44 27.3088	1.16	8767.18	
10972.00	88.80	153.20	3002.46	2847.46	-7046.21	5475.27	6461604.280	573835.730	N58 17 16.5322	W1 44 26.7080	0.46	8837.37	