

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:	162.40 deg
Well Name:	13/22a-C11	Vertical Section Origin:	31.62S, 15.08W
Wellbore Name:	13/22a-C11 (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C11 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				DLS (deg/100ft)	VS (ft)	Comment
MD (ft)	Inc (deg)	Azi (deg)	TVD (ft)	TVD(SS) (ft)	N-S (ft)	E-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude					
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	0.38			
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	0.51			
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	0.66			
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	1.30			
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	2.02			
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	3.20			
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	5.23			
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	8.03			
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	11.96			
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	17.05			
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	23.04			
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	30.27			
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	38.87			
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	49.02			
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	61.17			
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	68.01			
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	75.22			
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	82.71			
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	90.54			
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	98.78			
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	107.33			
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	116.06			
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	124.94			

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	133.94	
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	143.06	
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	152.30	
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	161.68	
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	171.25	
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	180.98	
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	190.89	
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	201.00	
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	211.28	
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	221.84	
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	232.77	
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	243.99	
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	255.43	
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	267.06	
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	278.97	
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	291.30	
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	304.02	
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	317.10	
1925.00	32.95	163.62	1861.63	1706.63	-342.23	98.87	6463646.960	572197.560	N58 18 23.5415	W1 46 4.9661	4.36	330.52	
1950.00	34.04	164.40	1882.47	1727.47	-355.49	102.67	6463642.920	572198.710	N58 18 23.4102	W1 46 4.8995	4.69	344.31	
1975.00	35.04	164.98	1903.07	1748.07	-369.16	106.41	6463638.760	572199.850	N58 18 23.2749	W1 46 4.8342	4.21	358.47	
2000.00	35.91	165.24	1923.43	1768.43	-383.18	110.14	6463634.490	572200.990	N58 18 23.1361	W1 46 4.7692	3.53	372.97	
2025.00	36.99	164.98	1943.54	1788.54	-397.53	113.96	6463630.110	572202.150	N58 18 22.9940	W1 46 4.7027	4.36	387.80	
2050.00	38.28	165.12	1963.33	1808.33	-412.28	117.90	6463625.620	572203.350	N58 18 22.8481	W1 46 4.6341	5.17	403.05	
2075.00	39.35	164.99	1982.81	1827.81	-427.42	121.94	6463621.010	572204.580	N58 18 22.6982	W1 46 4.5637	4.29	418.70	
2100.00	40.26	165.01	2002.02	1847.02	-442.88	126.08	6463616.290	572205.850	N58 18 22.5452	W1 46 4.4914	3.64	434.69	
2125.00	41.46	165.18	2020.93	1865.93	-458.69	130.29	6463611.480	572207.130	N58 18 22.3888	W1 46 4.4181	4.82	451.03	
2150.00	42.52	165.41	2039.51	1884.51	-474.86	134.53	6463606.550	572208.420	N58 18 22.2287	W1 46 4.3443	4.28	467.73	
2175.00	43.55	165.38	2057.78	1902.78	-491.37	138.83	6463601.520	572209.730	N58 18 22.0653	W1 46 4.2694	4.12	484.77	
2200.00	44.60	165.33	2075.74	1920.74	-508.20	143.23	6463596.390	572211.070	N58 18 21.8988	W1 46 4.1929	4.20	502.14	
2225.00	45.74	165.41	2093.36	1938.37	-525.35	147.71	6463591.170	572212.440	N58 18 21.7290	W1 46 4.1150	4.57	519.84	
2250.00	46.88	165.34	2110.63	1955.63	-542.84	152.27	6463585.840	572213.830	N58 18 21.5559	W1 46 4.0356	4.56	537.90	
2275.00	47.99	165.28	2127.54	1972.54	-560.65	156.94	6463580.410	572215.250	N58 18 21.3797	W1 46 3.9543	4.44	556.28	
2300.00	48.92	165.01	2144.12	1989.12	-578.74	161.74	6463574.900	572216.710	N58 18 21.2007	W1 46 3.8707	3.81	574.97	
2325.00	50.05	164.73	2160.36	2005.37	-597.09	166.70	6463569.310	572218.220	N58 18 21.0191	W1 46 3.7842	4.60	593.96	
2350.00	51.41	164.69	2176.19	2021.19	-615.76	171.80	6463563.620	572219.780	N58 18 20.8343	W1 46 3.6951	5.44	613.30	
2375.00	52.28	164.83	2191.63	2036.63	-634.72	176.97	6463557.840	572221.350	N58 18 20.6465	W1 46 3.6049	3.51	632.94	
2400.00	52.67	164.65	2206.86	2051.86	-653.85	182.19	6463552.010	572222.940	N58 18 20.4572	W1 46 3.5138	1.66	652.75	
2425.00	53.52	164.36	2221.87	2066.87	-673.11	187.53	6463546.140	572224.570	N58 18 20.2665	W1 46 3.4204	3.52	672.73	
2450.00	54.55	164.15	2236.56	2081.56	-692.59	193.02	6463540.210	572226.240	N58 18 20.0737	W1 46 3.3244	4.18	692.95	
2475.00	55.05	163.96	2250.97	2095.97	-712.23	198.63	6463534.220	572227.950	N58 18 19.8792	W1 46 3.2261	2.09	713.37	
2500.00	55.98	163.77	2265.12	2110.12	-732.03	204.36	6463528.190	572229.700	N58 18 19.6832	W1 46 3.1257	3.77	733.97	
2525.00	57.06	163.74	2278.91	2123.91	-752.05	210.19	6463522.090	572231.480	N58 18 19.4850	W1 46 3.0234	4.32	754.82	
2550.00	58.03	163.86	2292.33	2137.33	-772.30	216.08	6463515.920	572233.270	N58 18 19.2844	W1 46 2.9202	3.90	775.91	

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	58.69	164.10	2305.44	2150.44	-792.76	221.95	6463509.690	572235.060	N58 18 19.0818	W1 46 2.8173	2.76	797.18	
2600.00	58.83	164.25	2318.41	2163.41	-813.33	227.78	6463503.420	572236.830	N58 18 18.8782	W1 46 2.7153	0.76	818.55	
2625.00	58.99	164.27	2331.32	2176.32	-833.93	233.59	6463497.140	572238.600	N58 18 18.6742	W1 46 2.6137	0.64	839.94	
2650.00	59.26	164.35	2344.15	2189.15	-854.59	239.39	6463490.850	572240.370	N58 18 18.4697	W1 46 2.5122	1.11	861.39	
2675.00	59.54	164.44	2356.87	2201.87	-875.32	245.18	6463484.530	572242.140	N58 18 18.2645	W1 46 2.4110	1.16	882.90	
2700.00	59.71	164.43	2369.51	2214.51	-896.09	250.97	6463478.200	572243.900	N58 18 18.0589	W1 46 2.3098	0.68	904.45	
2725.00	59.84	164.54	2382.10	2227.10	-916.91	256.75	6463471.860	572245.660	N58 18 17.8528	W1 46 2.2088	0.64	926.04	
2750.00	60.08	164.67	2394.61	2239.61	-937.77	262.49	6463465.500	572247.410	N58 18 17.6463	W1 46 2.1084	1.06	947.66	
2775.00	60.23	164.83	2407.06	2252.06	-958.69	268.19	6463459.130	572249.150	N58 18 17.4392	W1 46 2.0089	0.82	969.33	
2800.00	60.04	164.76	2419.51	2264.50	-979.61	273.88	6463452.750	572250.880	N58 18 17.2321	W1 46 1.9097	0.80	990.99	
2825.00	59.98	164.42	2432.00	2277.00	-1000.49	279.63	6463446.390	572252.630	N58 18 17.0255	W1 46 1.8092	1.20	1012.63	
2850.00	60.26	164.21	2444.45	2289.46	-1021.36	285.50	6463440.030	572254.420	N58 18 16.8189	W1 46 1.7067	1.34	1034.29	
2875.00	60.33	164.06	2456.84	2301.84	-1042.24	291.43	6463433.670	572256.230	N58 18 16.6121	W1 46 1.6027	0.59	1056.00	
2900.00	60.34	163.88	2469.22	2314.22	-1063.12	297.43	6463427.310	572258.060	N58 18 16.4053	W1 46 1.4976	0.63	1077.71	
2925.00	60.19	163.67	2481.62	2326.62	-1083.97	303.50	6463420.960	572259.900	N58 18 16.1989	W1 46 1.3913	0.94	1099.41	
2950.00	60.15	163.30	2494.05	2339.05	-1104.76	309.66	6463414.620	572261.780	N58 18 15.9930	W1 46 1.2831	1.29	1121.10	
2975.00	60.21	162.97	2506.48	2351.48	-1125.52	315.95	6463408.300	572263.700	N58 18 15.7875	W1 46 1.1724	1.17	1142.79	
3000.00	60.37	162.98	2518.88	2363.87	-1146.28	322.31	6463401.970	572265.640	N58 18 15.5818	W1 46 1.0606	0.64	1164.50	
3025.00	60.38	163.12	2531.23	2376.23	-1167.07	328.65	6463395.640	572267.570	N58 18 15.3759	W1 46 0.9492	0.49	1186.23	
3050.00	60.34	163.15	2543.60	2388.60	-1187.86	334.95	6463389.300	572269.490	N58 18 15.1700	W1 46 0.8383	0.19	1207.96	
3075.00	60.44	163.06	2555.95	2400.95	-1208.66	341.27	6463382.960	572271.410	N58 18 14.9640	W1 46 0.7273	0.51	1229.69	
3100.00	60.65	162.79	2568.24	2413.24	-1229.47	347.66	6463376.620	572273.360	N58 18 14.7579	W1 46 0.6148	1.26	1251.46	
3125.00	60.87	162.84	2580.45	2425.45	-1250.31	354.10	6463370.270	572275.320	N58 18 14.5515	W1 46 0.5014	0.90	1273.27	
3150.00	61.01	163.02	2592.60	2437.60	-1271.20	360.52	6463363.910	572277.280	N58 18 14.3446	W1 46 0.3885	0.84	1295.12	
3175.00	60.88	163.29	2604.74	2449.74	-1292.11	366.85	6463357.540	572279.210	N58 18 14.1374	W1 46 0.2772	1.08	1316.97	
3200.00	60.40	163.32	2617.00	2462.00	-1312.98	373.11	6463351.180	572281.120	N58 18 13.9307	W1 46 0.1672	1.92	1338.76	
3225.00	60.40	163.13	2629.34	2474.34	-1333.80	379.38	6463344.840	572283.030	N58 18 13.7246	W1 46 0.0569	0.66	1360.50	
3250.00	60.70	163.31	2641.64	2486.64	-1354.64	385.67	6463338.480	572284.940	N58 18 13.5182	W1 45 59.9465	1.35	1382.26	
3275.00	60.92	163.42	2653.83	2498.83	-1375.55	391.92	6463332.110	572286.850	N58 18 13.3111	W1 45 59.8368	0.96	1404.09	
3300.00	61.02	163.65	2665.96	2510.96	-1396.51	398.11	6463325.730	572288.730	N58 18 13.1035	W1 45 59.7280	0.90	1425.94	
3325.00	60.95	163.79	2678.09	2523.09	-1417.50	404.24	6463319.330	572290.600	N58 18 12.8957	W1 45 59.6205	0.56	1447.80	
3350.00	60.85	163.76	2690.24	2535.24	-1438.47	410.35	6463312.940	572292.460	N58 18 12.6880	W1 45 59.5135	0.41	1469.63	
3375.00	60.65	163.83	2702.46	2547.46	-1459.42	416.43	6463306.560	572294.320	N58 18 12.4806	W1 45 59.4068	0.84	1491.44	
3400.00	60.57	163.96	2714.73	2559.73	-1480.35	422.47	6463300.180	572296.160	N58 18 12.2734	W1 45 59.3009	0.55	1513.22	
3425.00	60.68	163.81	2726.99	2571.99	-1501.28	428.52	6463293.800	572298.000	N58 18 12.0662	W1 45 59.1950	0.68	1534.99	
3450.00	60.97	163.55	2739.18	2584.18	-1522.23	434.65	6463287.420	572299.870	N58 18 11.8587	W1 45 59.0874	1.47	1556.82	
3475.00	61.34	163.76	2751.24	2596.24	-1543.24	440.82	6463281.020	572301.750	N58 18 11.6506	W1 45 58.9793	1.65	1578.71	
3500.00	61.51	163.95	2763.20	2608.20	-1564.33	446.92	6463274.590	572303.610	N58 18 11.4418	W1 45 58.8723	0.95	1600.66	
3525.00	61.25	163.81	2775.17	2620.17	-1585.41	453.02	6463268.170	572305.460	N58 18 11.2331	W1 45 58.7655	1.15	1622.60	
3550.00	61.00	163.68	2787.24	2632.25	-1606.43	459.14	6463261.770	572307.330	N58 18 11.0250	W1 45 58.6580	1.10	1644.48	
3575.00	61.44	163.49	2799.28	2644.28	-1627.45	465.34	6463255.360	572309.220	N58 18 10.8168	W1 45 58.5494	1.88	1666.39	
3600.00	62.15	163.17	2811.10	2656.10	-1648.55	471.66	6463248.930	572311.140	N58 18 10.6078	W1 45 58.4384	3.06	1688.42	
3625.00	63.08	162.87	2822.60	2667.60	-1669.78	478.14	6463242.460	572313.120	N58 18 10.3975	W1 45 58.3244	3.87	1710.61	
3650.00	64.02	162.62	2833.73	2678.73	-1691.16	484.78	6463235.950	572315.140	N58 18 10.1858	W1 45 58.2075	3.87	1733.00	

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			
3675.00	64.99	162.57	2844.49	2689.49	-1712.69	491.53	6463229.390	572317.200	N58 18 9.9725	W1 45 58.0886	3.88	1755.56	
3700.00	65.88	162.57	2854.89	2699.89	-1734.38	498.34	6463222.780	572319.270	N58 18 9.7576	W1 45 57.9686	3.56	1778.30	
3725.00	66.62	162.53	2864.95	2709.95	-1756.21	505.20	6463216.130	572321.360	N58 18 9.5414	W1 45 57.8477	2.96	1801.18	
3750.00	67.45	162.50	2874.71	2719.71	-1778.17	512.12	6463209.440	572323.470	N58 18 9.3239	W1 45 57.7258	3.32	1824.20	
3775.00	68.13	162.46	2884.16	2729.16	-1800.24	519.08	6463202.710	572325.590	N58 18 9.1052	W1 45 57.6030	2.72	1847.34	
3800.00	68.60	162.55	2893.38	2738.38	-1822.40	526.07	6463195.960	572327.720	N58 18 8.8857	W1 45 57.4799	1.91	1870.58	
3825.00	69.00	162.57	2902.42	2747.42	-1844.64	533.06	6463189.180	572329.850	N58 18 8.6654	W1 45 57.3568	1.60	1893.89	
3850.00	69.84	162.35	2911.20	2756.20	-1866.95	540.11	6463182.380	572332.000	N58 18 8.4443	W1 45 57.2325	3.46	1917.29	
3875.00	70.99	162.15	2919.58	2764.58	-1889.39	547.29	6463175.550	572334.190	N58 18 8.2221	W1 45 57.1058	4.66	1940.85	
3900.00	71.87	162.06	2927.55	2772.55	-1911.94	554.57	6463168.680	572336.410	N58 18 7.9987	W1 45 56.9773	3.54	1964.55	
3925.00	72.38	161.93	2935.22	2780.22	-1934.57	561.93	6463161.780	572338.650	N58 18 7.7745	W1 45 56.8475	2.10	1988.34	
3950.00	72.96	161.83	2942.67	2787.67	-1957.25	569.35	6463154.870	572340.910	N58 18 7.5497	W1 45 56.7164	2.35	2012.20	
3975.00	73.86	161.85	2949.80	2794.80	-1980.01	576.82	6463147.930	572343.180	N58 18 7.3242	W1 45 56.5845	3.60	2036.16	
4000.00	74.61	161.92	2956.60	2801.60	-2002.88	584.30	6463140.970	572345.460	N58 18 7.0976	W1 45 56.4524	3.01	2060.22	
4025.00	75.53	161.88	2963.04	2808.04	-2025.84	591.80	6463133.970	572347.750	N58 18 6.8701	W1 45 56.3198	3.68	2084.37	
4050.00	76.90	161.65	2968.99	2813.99	-2048.90	599.40	6463126.950	572350.070	N58 18 6.6416	W1 45 56.1856	5.55	2108.65	
4075.00	77.98	161.41	2974.43	2819.43	-2072.05	607.13	6463119.890	572352.420	N58 18 6.4122	W1 45 56.0489	4.42	2133.05	
4100.00	78.67	161.28	2979.49	2824.49	-2095.24	614.96	6463112.830	572354.810	N58 18 6.1823	W1 45 55.9103	2.81	2157.53	
4125.00	79.55	160.96	2984.21	2829.21	-2118.47	622.90	6463105.750	572357.230	N58 18 5.9521	W1 45 55.7697	3.74	2182.07	
4150.00	80.89	160.42	2988.46	2833.46	-2141.72	631.05	6463098.660	572359.710	N58 18 5.7217	W1 45 55.6252	5.77	2206.70	
4175.00	82.14	159.87	2992.15	2837.15	-2164.98	639.45	6463091.580	572362.270	N58 18 5.4911	W1 45 55.4761	5.45	2231.40	
4200.00	82.85	159.58	2995.41	2840.41	-2188.23	648.04	6463084.490	572364.890	N58 18 5.2605	W1 45 55.3233	3.06	2256.16	
4225.00	83.21	159.44	2998.45	2843.45	-2211.47	656.73	6463077.410	572367.530	N58 18 5.0300	W1 45 55.1688	1.54	2280.95	
4250.00	83.11	159.38	3001.42	2846.42	-2234.71	665.45	6463070.330	572370.190	N58 18 4.7996	W1 45 55.0134	0.47	2305.73	
4275.00	82.79	159.18	3004.49	2849.49	-2257.91	674.23	6463063.260	572372.870	N58 18 4.5694	W1 45 54.8572	1.51	2330.51	
4300.00	82.86	158.76	3007.61	2852.61	-2281.07	683.13	6463056.200	572375.580	N58 18 4.3398	W1 45 54.6986	1.69	2355.27	
4325.00	83.35	158.46	3010.62	2855.62	-2304.18	692.19	6463049.160	572378.340	N58 18 4.1105	W1 45 54.5372	2.29	2380.03	
4350.00	83.68	158.36	3013.44	2858.44	-2327.27	701.33	6463042.130	572381.120	N58 18 3.8814	W1 45 54.3741	1.38	2404.81	
4375.00	84.23	158.32	3016.07	2861.07	-2350.38	710.50	6463035.090	572383.920	N58 18 3.6522	W1 45 54.2103	2.21	2429.61	
4400.00	85.20	158.08	3018.38	2863.37	-2373.49	719.75	6463028.040	572386.730	N58 18 3.4228	W1 45 54.0453	4.00	2454.44	
4425.00	85.88	157.62	3020.32	2865.32	-2396.57	729.14	6463021.010	572389.600	N58 18 3.1938	W1 45 53.8774	3.28	2479.28	
4450.00	85.64	157.26	3022.17	2867.17	-2419.60	738.71	6463013.990	572392.510	N58 18 2.9653	W1 45 53.7063	1.73	2504.12	
4475.00	85.31	157.13	3024.14	2869.14	-2442.57	748.37	6463006.990	572395.460	N58 18 2.7373	W1 45 53.5335	1.42	2528.94	
4490.00	85.37	157.06	3025.36	2870.36	-2456.34	754.19	6463002.800	572397.230	N58 18 2.6006	W1 45 53.4294	0.61	2543.83	
4587.00	87.50	160.10	3031.39	2876.39	-2546.45	789.53	6462975.340	572408.000	N58 18 1.7066	W1 45 52.7990	3.82	2640.41	
4649.00	90.30	161.80	3032.58	2877.58	-2605.04	809.76	6462957.490	572414.160	N58 18 1.1260	W1 45 52.4406	5.28	2702.37	
4684.00	92.20	161.50	3031.82	2876.82	-2638.25	820.78	6462947.370	572417.520	N58 18 0.7969	W1 45 52.2459	5.50	2737.35	
4780.00	92.30	159.80	3028.05	2873.05	-2728.76	852.56	6462919.790	572427.200	N58 17 59.8997	W1 45 51.6824	1.77	2833.23	
4876.00	94.10	154.90	3022.69	2867.69	-2817.18	889.46	6462892.850	572438.450	N58 17 59.0221	W1 45 51.0225	5.43	2928.68	
4971.00	92.40	152.00	3017.30	2862.30	-2902.02	931.85	6462867.000	572451.360	N58 17 58.1789	W1 45 50.2585	3.53	3022.36	
5066.00	91.90	150.80	3013.74	2858.74	-2985.36	977.29	6462841.610	572465.210	N58 17 57.3497	W1 45 49.4370	1.37	3115.54	
5163.00	92.20	152.00	3010.27	2855.27	-3070.47	1023.69	6462815.670	572479.350	N58 17 56.5031	W1 45 48.5981	1.27	3210.70	
5258.00	92.60	152.40	3006.29	2851.29	-3154.43	1067.96	6462790.090	572492.840	N58 17 55.6681	W1 45 47.7988	0.60	3304.11	
5353.00	92.50	152.50	3002.06	2847.06	-3238.58	1111.86	6462764.450	572506.210	N58 17 54.8314	W1 45 47.0065	0.15	3397.59	

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			
5448.00	92.70	152.20	2997.75	2842.75	-3322.64	1155.90	6462738.840	572519.630	N58 17 53.9955	W1 45 46.2115	0.38	3491.04	
5542.00	92.50	150.40	2993.49	2838.49	-3405.01	1200.99	6462713.740	572533.370	N58 17 53.1761	W1 45 45.3962	1.92	3583.18	
5638.00	91.30	150.70	2990.30	2835.30	-3488.55	1248.16	6462688.290	572547.740	N58 17 52.3446	W1 45 44.5424	1.29	3677.08	
5733.00	92.10	151.30	2987.49	2832.49	-3571.60	1294.20	6462662.980	572561.770	N58 17 51.5183	W1 45 43.7097	1.05	3770.17	
5829.00	90.70	152.40	2985.14	2830.14	-3656.22	1339.48	6462637.200	572575.560	N58 17 50.6767	W1 45 42.8918	1.85	3864.51	
5924.00	91.70	152.60	2983.15	2828.15	-3740.47	1383.33	6462611.530	572588.930	N58 17 49.8390	W1 45 42.1004	1.07	3958.07	
6020.00	91.20	152.30	2980.72	2825.72	-3825.55	1427.72	6462585.600	572602.450	N58 17 48.9929	W1 45 41.2993	0.61	4052.60	
6116.00	90.00	152.70	2979.72	2824.72	-3910.70	1472.04	6462559.660	572615.960	N58 17 48.1462	W1 45 40.4994	1.32	4147.16	
6210.00	89.90	152.90	2979.80	2824.80	-3994.30	1515.01	6462534.190	572629.050	N58 17 47.3150	W1 45 39.7244	0.24	4239.85	
6306.00	87.30	153.00	2982.14	2827.14	-4079.77	1558.65	6462508.140	572642.350	N58 17 46.4653	W1 45 38.9374	2.71	4334.51	
6402.00	87.90	152.90	2986.16	2831.16	-4165.19	1602.27	6462482.120	572655.640	N58 17 45.6160	W1 45 38.1509	0.63	4429.12	
6495.00	89.40	153.50	2988.35	2833.35	-4248.18	1644.19	6462456.830	572668.410	N58 17 44.7911	W1 45 37.3953	1.74	4520.90	
6591.00	88.30	153.10	2990.28	2835.28	-4333.92	1687.32	6462430.700	572681.550	N58 17 43.9387	W1 45 36.6181	1.22	4615.67	
6683.00	87.60	152.50	2993.57	2838.57	-4415.70	1729.34	6462405.790	572694.360	N58 17 43.1257	W1 45 35.8601	1.00	4706.32	
6779.00	87.10	152.30	2998.01	2843.01	-4500.68	1773.77	6462379.890	572707.890	N58 17 42.2806	W1 45 35.0583	0.56	4800.76	
6876.00	87.30	151.50	3002.75	2847.75	-4586.14	1819.40	6462353.850	572721.800	N58 17 41.4306	W1 45 34.2341	0.85	4896.02	
6974.00	86.80	150.90	3007.79	2852.79	-4671.91	1866.55	6462327.720	572736.160	N58 17 40.5773	W1 45 33.3817	0.80	4992.03	
7070.00	85.70	150.30	3014.07	2859.07	-4755.36	1913.58	6462302.290	572750.490	N58 17 39.7468	W1 45 32.5309	1.30	5085.79	
7167.00	82.30	150.10	3024.21	2869.21	-4839.06	1961.51	6462276.790	572765.100	N58 17 38.9137	W1 45 31.6630	3.51	5180.07	
7260.00	83.80	151.60	3035.46	2880.46	-4919.69	2006.47	6462252.220	572778.800	N58 17 38.1115	W1 45 30.8498	2.27	5270.51	
7357.00	85.90	152.10	3044.17	2889.17	-5004.86	2052.05	6462226.270	572792.680	N58 17 37.2642	W1 45 30.0267	2.22	5365.48	
7451.00	89.00	151.80	3048.35	2893.35	-5087.73	2096.20	6462201.020	572806.140	N58 17 36.4401	W1 45 29.2293	3.31	5457.82	
7545.00	90.70	151.80	3048.60	2893.60	-5170.57	2140.62	6462175.780	572819.670	N58 17 35.6161	W1 45 28.4271	1.81	5550.21	
7639.00	89.70	151.40	3048.27	2893.27	-5253.25	2185.33	6462150.590	572833.290	N58 17 34.7936	W1 45 27.6193	1.15	5642.55	
7736.00	90.10	151.40	3048.44	2893.44	-5338.42	2231.76	6462124.640	572847.440	N58 17 33.9463	W1 45 26.7802	0.41	5737.76	
7833.00	89.50	151.80	3048.78	2893.78	-5423.74	2277.90	6462098.640	572861.500	N58 17 33.0975	W1 45 25.9467	0.74	5833.04	
7928.00	92.20	151.40	3047.37	2892.37	-5507.29	2323.07	6462073.180	572875.260	N58 17 32.2664	W1 45 25.1305	2.87	5926.34	
8023.00	92.90	151.50	3043.14	2888.14	-5590.65	2368.43	6462047.780	572889.080	N58 17 31.4371	W1 45 24.3109	0.74	6019.52	
8117.00	92.10	150.90	3039.04	2884.04	-5672.95	2413.67	6462022.710	572902.870	N58 17 30.6183	W1 45 23.4931	1.06	6111.64	
8204.00	90.40	151.40	3037.14	2882.14	-5749.13	2455.64	6461999.490	572915.660	N58 17 29.8603	W1 45 22.7345	2.04	6196.95	
8380.00	89.20	150.90	3037.76	2882.76	-5903.28	2540.56	6461952.520	572941.530	N58 17 28.3266	W1 45 21.1994	0.74	6369.56	
8466.00	89.70	150.50	3038.58	2883.58	-5978.27	2582.64	6461929.670	572954.350	N58 17 27.5803	W1 45 20.4381	0.74	6453.77	
8556.00	90.20	149.50	3038.66	2883.66	-6056.22	2627.64	6461905.930	572968.070	N58 17 26.8044	W1 45 19.6234	1.24	6541.67	
8646.00	88.80	150.00	3039.45	2884.45	-6133.96	2672.98	6461882.240	572981.880	N58 17 26.0305	W1 45 18.8023	1.65	6629.48	
8738.00	87.90	151.90	3042.10	2887.10	-6214.34	2717.63	6461857.740	572995.490	N58 17 25.2306	W1 45 17.9949	2.28	6719.60	
8826.00	90.10	152.60	3043.63	2888.63	-6292.21	2758.60	6461834.020	573007.970	N58 17 24.4563	W1 45 17.2557	2.62	6806.21	
8917.00	90.60	152.40	3043.08	2888.08	-6372.92	2800.61	6461809.430	573020.770	N58 17 23.6536	W1 45 16.4977	0.59	6895.85	
9005.00	89.50	152.60	3043.00	2888.00	-6450.98	2841.25	6461785.640	573033.150	N58 17 22.8774	W1 45 15.7647	1.27	6982.54	
9107.00	89.00	153.60	3044.33	2889.33	-6541.93	2887.39	6461757.930	573047.210	N58 17 21.9732	W1 45 14.9332	1.10	7083.19	
9182.00	90.20	154.50	3044.86	2889.86	-6609.37	2920.21	6461737.380	573057.210	N58 17 21.3030	W1 45 14.3427	2.00	7157.39	
9270.00	89.80	154.30	3044.86	2889.86	-6688.73	2958.23	6461713.200	573068.800	N58 17 20.5144	W1 45 13.6590	0.51	7244.53	
9356.00	89.40	154.20	3045.46	2890.46	-6766.19	2995.59	6461689.600	573080.180	N58 17 19.7447	W1 45 12.9871	0.48	7329.66	
9445.00	90.90	154.30	3045.22	2890.23	-6846.35	3034.26	6461665.180	573091.960	N58 17 18.9481	W1 45 12.2917	1.69	7417.76	
9533.00	92.10	154.60	3042.92	2887.92	-6925.71	3072.20	6461640.990	573103.520	N58 17 18.1595	W1 45 11.6096	1.41	7504.88	

							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)	
9622.00	93.60	154.10	3038.50	2883.50	-7005.84	3110.67	6461616.580	573115.240	N58 17 17.3633	W1 45 10.9177	1.78	7592.89	
9713.00	96.00	153.20	3030.88	2875.88	-7087.09	3150.92	6461591.820	573127.510	N58 17 16.5557	W1 45 10.1932	2.82	7682.51	
9782.00	96.00	153.20	3023.67	2868.67	-7148.34	3181.86	6461573.160	573136.930	N58 17 15.9467	W1 45 9.6357	0.00	7750.25	