

# 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 #16	Vertical Section Azimuth:	54.33 deg
Well Name:	13/22a-C9	Vertical Section Origin:	8.64N, 3.06E
Wellbore Name:	13/22a-C9 (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C9 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 27.0146, W1 46 6.6389	North Reference:	Grid
Slot Location Grid N/E Y/X:	6463753.8730 m, 572168.3620 m	Local Coordinates Referenced To:	Installation

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			
0.00	0.00	0.00	0.00	-155.00	8.64	3.06	6463753.870	572168.360	N58 18 27.0146	W1 46 6.6389	0.00	0.00	
500.50	0.00	0.00	500.50	345.50	8.64	3.06	6463753.870	572168.360	N58 18 27.0146	W1 46 6.6389	0.00	0.00	
530.00	0.33	253.98	530.00	375.00	8.62	2.98	6463753.870	572168.340	N58 18 27.0144	W1 46 6.6404	1.12	-0.08	
566.00	0.18	267.24	566.00	411.00	8.59	2.82	6463753.860	572168.290	N58 18 27.0141	W1 46 6.6434	0.45	-0.23	
590.00	0.41	93.21	590.00	435.00	8.58	2.87	6463753.850	572168.300	N58 18 27.0140	W1 46 6.6425	2.46	-0.19	
620.00	0.22	182.47	620.00	465.00	8.52	2.97	6463753.830	572168.340	N58 18 27.0134	W1 46 6.6405	1.54	-0.14	
657.00	0.35	145.05	657.00	502.00	8.35	3.04	6463753.790	572168.350	N58 18 27.0117	W1 46 6.6394	0.60	-0.19	
699.90	0.52	80.37	699.90	544.90	8.28	3.30	6463753.760	572168.440	N58 18 27.0110	W1 46 6.6345	1.14	-0.01	
750.00	1.15	72.44	749.99	594.99	8.47	4.01	6463753.820	572168.650	N58 18 27.0127	W1 46 6.6212	1.28	0.67	
800.00	2.55	69.33	799.97	644.96	9.01	5.53	6463753.990	572169.110	N58 18 27.0178	W1 46 6.5926	2.81	2.22	
849.90	3.85	67.07	849.79	694.79	10.06	8.11	6463754.300	572169.900	N58 18 27.0276	W1 46 6.5440	2.62	4.93	
900.00	4.64	65.12	899.75	744.75	11.56	11.49	6463754.760	572170.930	N58 18 27.0419	W1 46 6.4800	1.60	8.56	
950.10	4.92	63.54	949.67	794.67	13.37	15.26	6463755.320	572172.080	N58 18 27.0590	W1 46 6.4090	0.62	12.67	
1024.90	5.18	62.76	1024.18	869.18	16.35	21.13	6463756.220	572173.870	N58 18 27.0872	W1 46 6.2981	0.36	19.17	
1049.90	5.41	60.79	1049.08	894.08	17.44	23.16	6463756.550	572174.490	N58 18 27.0976	W1 46 6.2597	1.17	21.46	
1099.90	6.12	58.81	1098.82	943.82	19.97	27.50	6463757.330	572175.810	N58 18 27.1218	W1 46 6.1777	1.47	26.46	
1125.00	6.39	57.42	1123.77	968.77	21.42	29.82	6463757.770	572176.520	N58 18 27.1356	W1 46 6.1337	1.23	29.19	
1149.80	6.87	55.91	1148.41	993.41	22.99	32.21	6463758.250	572177.240	N58 18 27.1507	W1 46 6.0884	2.06	32.05	
1199.80	7.37	55.73	1198.02	1043.02	26.47	37.34	6463759.310	572178.810	N58 18 27.1840	W1 46 5.9913	1.00	38.25	
1249.90	8.28	53.86	1247.66	1092.66	30.41	42.91	6463760.510	572180.500	N58 18 27.2218	W1 46 5.8858	1.89	45.07	
1299.80	9.20	52.74	1296.98	1141.98	34.94	48.98	6463761.890	572182.360	N58 18 27.2654	W1 46 5.7705	1.87	52.65	
1349.70	10.30	53.50	1346.15	1191.15	40.01	55.74	6463763.430	572184.420	N58 18 27.3141	W1 46 5.6422	2.22	61.10	
1399.60	11.16	55.18	1395.18	1240.18	45.42	63.30	6463765.080	572186.720	N58 18 27.3660	W1 46 5.4991	1.83	70.38	
1449.80	11.93	55.94	1444.37	1289.37	51.10	71.58	6463766.810	572189.240	N58 18 27.4205	W1 46 5.3421	1.56	80.43	
1474.60	12.17	56.84	1468.62	1313.62	53.97	75.89	6463767.680	572190.550	N58 18 27.4479	W1 46 5.2604	1.23	85.60	
1499.80	12.60	57.40	1493.23	1338.23	56.90	80.43	6463768.580	572191.940	N58 18 27.4760	W1 46 5.1745	1.77	91.00	
1549.90	13.08	56.82	1542.08	1387.08	62.95	89.78	6463770.420	572194.790	N58 18 27.5339	W1 46 4.9975	0.99	102.12	
1600.00	13.65	57.26	1590.82	1435.82	69.25	99.50	6463772.340	572197.750	N58 18 27.5942	W1 46 4.8135	1.16	113.69	

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			
1624.90	13.96	57.58	1615.00	1460.00	72.45	104.51	6463773.310	572199.270	N58 18 27.6248	W1 46 4.7187	1.28	119.62	
1649.60	14.12	56.97	1638.96	1483.97	75.69	109.55	6463774.300	572200.810	N58 18 27.6558	W1 46 4.6232	0.88	125.61	
1699.90	14.55	57.33	1687.70	1532.70	82.44	120.01	6463776.360	572204.000	N58 18 27.7204	W1 46 4.4251	0.87	138.04	
1750.00	14.92	57.28	1736.15	1581.15	89.33	130.73	6463778.460	572207.260	N58 18 27.7863	W1 46 4.2221	0.74	150.77	
1774.80	15.39	57.54	1760.09	1605.09	92.82	136.20	6463779.520	572208.930	N58 18 27.8197	W1 46 4.1187	1.91	157.24	
1800.00	16.40	56.60	1784.33	1629.32	96.57	141.99	6463780.670	572210.690	N58 18 27.8556	W1 46 4.0090	4.14	164.14	
1824.90	17.56	55.88	1808.14	1653.14	100.61	148.03	6463781.900	572212.540	N58 18 27.8943	W1 46 3.8945	4.73	171.41	
1849.80	18.46	56.32	1831.82	1676.82	104.91	154.42	6463783.200	572214.480	N58 18 27.9355	W1 46 3.7735	3.66	179.10	
1874.80	19.52	55.43	1855.46	1700.46	109.47	161.16	6463784.600	572216.530	N58 18 27.9792	W1 46 3.6459	4.40	187.23	
1899.90	20.58	55.36	1879.04	1724.04	114.36	168.24	6463786.080	572218.690	N58 18 28.0261	W1 46 3.5117	4.22	195.84	
1924.90	21.58	55.12	1902.36	1747.36	119.49	175.63	6463787.650	572220.940	N58 18 28.0752	W1 46 3.3717	4.01	204.83	
1949.90	22.48	54.86	1925.54	1770.54	124.87	183.31	6463789.290	572223.280	N58 18 28.1268	W1 46 3.2262	3.62	214.20	
1974.90	23.45	54.84	1948.56	1793.56	130.48	191.28	6463791.000	572225.710	N58 18 28.1807	W1 46 3.0750	3.88	223.96	
1999.80	24.49	54.29	1971.31	1816.31	136.35	199.52	6463792.780	572228.220	N58 18 28.2370	W1 46 2.9188	4.27	234.07	
2025.00	25.39	54.44	1994.16	1839.16	142.54	208.16	6463794.670	572230.860	N58 18 28.2964	W1 46 2.7550	3.58	244.70	
2049.80	26.63	54.29	2016.45	1861.45	148.87	217.00	6463796.600	572233.550	N58 18 28.3572	W1 46 2.5875	5.01	255.57	
2074.90	27.50	54.42	2038.80	1883.80	155.53	226.28	6463798.630	572236.380	N58 18 28.4211	W1 46 2.4115	3.47	266.99	
2099.70	28.88	54.44	2060.66	1905.65	162.34	235.81	6463800.710	572239.280	N58 18 28.4865	W1 46 2.2308	5.56	278.71	
2125.00	29.63	54.02	2082.73	1927.73	169.57	245.84	6463802.910	572242.340	N58 18 28.5559	W1 46 2.0407	3.07	291.07	
2149.80	30.69	53.89	2104.17	1949.17	176.90	255.91	6463805.140	572245.410	N58 18 28.6263	W1 46 1.8496	4.28	303.53	
2174.90	31.77	53.99	2125.63	1970.63	184.56	266.43	6463807.480	572248.610	N58 18 28.6998	W1 46 1.6501	4.31	316.55	
2199.90	32.43	53.52	2146.81	1991.81	192.42	277.15	6463809.870	572251.880	N58 18 28.7753	W1 46 1.4469	2.82	329.83	
2224.90	33.01	53.50	2167.84	2012.84	200.46	288.01	6463812.320	572255.190	N58 18 28.8524	W1 46 1.2409	2.32	343.34	
2249.90	34.27	53.61	2188.66	2033.66	208.68	299.15	6463814.820	572258.580	N58 18 28.9315	W1 46 1.0296	5.05	357.19	
2274.70	35.09	53.29	2209.05	2054.05	217.09	310.49	6463817.390	572262.030	N58 18 29.0122	W1 46 0.8146	3.39	371.30	
2300.00	35.41	53.51	2229.71	2074.71	225.79	322.21	6463820.040	572265.610	N58 18 29.0958	W1 46 0.5922	1.36	385.90	
2324.80	35.87	53.36	2249.87	2094.87	234.40	333.82	6463822.660	572269.140	N58 18 29.1785	W1 46 0.3721	1.89	400.35	
2349.90	37.00	53.30	2270.06	2115.06	243.30	345.77	6463825.370	572272.790	N58 18 29.2641	W1 46 0.1453	4.50	415.25	
2374.80	37.84	53.14	2289.84	2134.84	252.36	357.89	6463828.130	572276.480	N58 18 29.3511	W1 45 59.9154	3.40	430.38	
2399.90	38.60	53.15	2309.55	2154.55	261.68	370.32	6463830.970	572280.260	N58 18 29.4406	W1 45 59.6797	3.03	445.90	
2424.90	39.23	53.20	2329.01	2174.01	271.09	382.89	6463833.840	572284.090	N58 18 29.5310	W1 45 59.4412	2.52	461.61	
2450.00	40.36	53.17	2348.29	2193.29	280.71	395.75	6463836.770	572288.010	N58 18 29.6235	W1 45 59.1973	4.50	477.67	
2474.90	41.01	53.42	2367.17	2212.17	290.42	408.76	6463839.730	572291.980	N58 18 29.7167	W1 45 58.9504	2.69	493.90	
2499.90	41.85	53.45	2385.92	2230.92	300.27	422.05	6463842.730	572296.030	N58 18 29.8114	W1 45 58.6984	3.36	510.44	
2524.90	42.95	53.34	2404.38	2249.38	310.32	435.58	6463845.790	572300.150	N58 18 29.9080	W1 45 58.4417	4.41	527.29	
2549.90	44.09	53.09	2422.51	2267.51	320.63	449.37	6463848.940	572304.350	N58 18 30.0070	W1 45 58.1802	4.61	544.50	
2574.90	45.06	53.26	2440.31	2285.31	331.15	463.41	6463852.140	572308.630	N58 18 30.1081	W1 45 57.9137	3.91	562.05	
2599.90	45.92	52.96	2457.84	2302.84	341.85	477.67	6463855.400	572312.980	N58 18 30.2109	W1 45 57.6433	3.54	579.87	
2625.00	46.82	52.61	2475.16	2320.16	352.84	492.14	6463858.750	572317.380	N58 18 30.3165	W1 45 57.3687	3.72	598.03	
2649.70	47.90	52.71	2491.89	2336.89	363.86	506.59	6463862.110	572321.790	N58 18 30.4224	W1 45 57.0946	4.38	616.19	
2675.00	48.68	52.85	2508.72	2353.72	375.28	521.63	6463865.590	572326.370	N58 18 30.5322	W1 45 56.8093	3.11	635.07	
2699.90	49.44	52.93	2525.04	2370.04	386.63	536.63	6463869.050	572330.940	N58 18 30.6413	W1 45 56.5247	3.06	653.88	
2724.80	50.13	52.76	2541.12	2386.12	398.12	551.78	6463872.550	572335.560	N58 18 30.7517	W1 45 56.2371	2.82	672.88	
2750.00	51.08	52.87	2557.11	2402.11	409.89	567.29	6463876.130	572340.280	N58 18 30.8648	W1 45 55.9428	3.78	692.35	

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			
2774.90	52.22	52.94	2572.56	2417.56	421.66	582.87	6463879.720	572345.030	N58 18 30.9780	W1 45 55.6473	4.58	711.87	
2800.00	53.07	53.08	2587.79	2432.79	433.67	598.81	6463883.380	572349.880	N58 18 31.0933	W1 45 55.3449	3.42	731.82	
2850.00	55.05	53.17	2617.13	2462.13	457.96	631.19	6463890.780	572359.750	N58 18 31.3267	W1 45 54.7306	3.96	772.29	
2874.90	56.16	53.14	2631.20	2476.20	470.28	647.63	6463894.530	572364.760	N58 18 31.4451	W1 45 54.4187	4.46	792.83	
2900.00	57.38	53.17	2644.95	2489.95	482.87	664.43	6463898.370	572369.880	N58 18 31.5661	W1 45 54.0999	4.86	813.82	
2924.50	58.38	53.03	2657.98	2502.98	495.33	681.03	6463902.160	572374.940	N58 18 31.6858	W1 45 53.7852	4.11	834.57	
2949.90	59.14	52.91	2671.15	2516.15	508.41	698.36	6463906.150	572380.220	N58 18 31.8115	W1 45 53.4562	3.02	856.28	
2974.80	59.93	52.72	2683.78	2528.78	521.38	715.46	6463910.100	572385.430	N58 18 31.9362	W1 45 53.1318	3.24	877.73	
2999.70	60.30	52.56	2696.18	2541.18	534.48	732.62	6463914.090	572390.660	N58 18 32.0621	W1 45 52.8062	1.59	899.31	
3024.90	60.26	52.66	2708.68	2553.68	547.77	750.01	6463918.140	572395.960	N58 18 32.1898	W1 45 52.4762	0.38	921.19	
3050.00	60.17	52.73	2721.15	2566.15	560.97	767.34	6463922.170	572401.240	N58 18 32.3167	W1 45 52.1474	0.43	942.96	
3099.90	59.97	52.85	2746.04	2591.04	587.12	801.78	6463930.130	572411.730	N58 18 32.5681	W1 45 51.4939	0.45	986.19	
3124.80	59.94	52.88	2758.51	2603.51	600.13	818.96	6463934.100	572416.970	N58 18 32.6932	W1 45 51.1679	0.16	1007.74	
3149.80	60.29	52.87	2770.97	2615.97	613.22	836.24	6463938.090	572422.230	N58 18 32.8189	W1 45 50.8400	1.40	1029.41	
3174.70	60.48	52.87	2783.27	2628.27	626.28	853.50	6463942.070	572427.490	N58 18 32.9445	W1 45 50.5125	0.76	1051.05	
3225.00	62.55	52.44	2807.26	2652.26	653.10	888.65	6463950.240	572438.200	N58 18 33.2022	W1 45 49.8456	4.18	1095.24	
3249.80	64.18	52.10	2818.38	2663.38	666.67	906.18	6463954.370	572443.540	N58 18 33.3327	W1 45 49.5129	6.69	1117.39	
3275.00	65.79	51.74	2829.03	2674.03	680.75	924.15	6463958.660	572449.020	N58 18 33.4682	W1 45 49.1717	6.52	1140.21	
3299.90	67.19	51.49	2838.97	2683.97	694.93	942.05	6463962.980	572454.470	N58 18 33.6046	W1 45 48.8319	5.70	1163.01	
3324.90	68.12	51.21	2848.47	2693.47	709.37	960.11	6463967.380	572459.970	N58 18 33.7435	W1 45 48.4890	3.86	1186.10	
3349.90	69.28	50.94	2857.55	2702.55	724.01	978.23	6463971.840	572465.490	N58 18 33.8844	W1 45 48.1448	4.75	1209.36	
3374.90	71.04	50.52	2866.04	2711.04	738.89	996.43	6463976.380	572471.040	N58 18 34.0277	W1 45 47.7991	7.22	1232.83	
3399.70	72.49	50.30	2873.80	2718.80	753.90	1014.58	6463980.950	572476.570	N58 18 34.1723	W1 45 47.4542	5.91	1256.33	
3424.70	73.81	50.12	2881.04	2726.04	769.21	1032.97	6463985.620	572482.170	N58 18 34.3198	W1 45 47.1049	5.32	1280.19	
3449.90	74.74	50.00	2887.87	2732.87	784.79	1051.57	6463990.360	572487.840	N58 18 34.4698	W1 45 46.7515	3.72	1304.38	
3474.90	75.40	49.84	2894.31	2739.31	800.34	1070.05	6463995.100	572493.470	N58 18 34.6196	W1 45 46.4003	2.71	1328.46	
3500.00	76.55	49.92	2900.40	2745.40	816.03	1088.67	6463999.880	572499.150	N58 18 34.7708	W1 45 46.0464	4.59	1352.74	
3525.00	77.82	49.87	2905.94	2750.94	831.73	1107.32	6464004.670	572504.830	N58 18 34.9221	W1 45 45.6921	5.08	1377.04	
3549.10	78.81	49.89	2910.82	2755.82	846.94	1125.36	6464009.300	572510.330	N58 18 35.0686	W1 45 45.3491	4.11	1400.57	
3574.80	79.49	49.84	2915.66	2760.66	863.21	1144.66	6464014.260	572516.210	N58 18 35.2254	W1 45 44.9824	2.65	1425.74	
3599.90	80.04	49.82	2920.12	2765.12	879.14	1163.53	6464019.110	572521.960	N58 18 35.3789	W1 45 44.6237	2.19	1450.36	
3625.00	80.82	49.99	2924.29	2769.29	895.09	1182.47	6464023.970	572527.730	N58 18 35.5325	W1 45 44.2639	3.18	1475.04	
3650.00	81.40	50.11	2928.16	2773.16	910.95	1201.40	6464028.800	572533.490	N58 18 35.6852	W1 45 43.9041	2.37	1499.67	
3674.90	81.88	50.11	2931.78	2776.78	926.75	1220.31	6464033.620	572539.250	N58 18 35.8374	W1 45 43.5449	1.93	1524.24	
3700.00	82.62	50.10	2935.16	2780.16	942.70	1239.39	6464038.480	572545.070	N58 18 35.9911	W1 45 43.1823	2.95	1549.04	
3724.90	82.98	49.85	2938.28	2783.28	958.58	1258.30	6464043.320	572550.830	N58 18 36.1441	W1 45 42.8228	1.76	1573.67	
3749.90	83.46	50.02	2941.23	2786.23	974.56	1277.30	6464048.190	572556.620	N58 18 36.2981	W1 45 42.4618	2.04	1598.43	
3775.00	83.73	49.83	2944.03	2789.03	990.62	1296.39	6464053.080	572562.440	N58 18 36.4528	W1 45 42.0991	1.31	1623.30	
3800.00	83.74	49.63	2946.76	2791.76	1006.68	1315.35	6464057.970	572568.210	N58 18 36.6076	W1 45 41.7387	0.80	1648.07	
3824.80	83.98	49.44	2949.41	2794.41	1022.69	1334.11	6464062.850	572573.930	N58 18 36.7618	W1 45 41.3821	1.23	1672.64	
3849.90	83.91	49.53	2952.06	2797.06	1038.90	1353.09	6464067.790	572579.710	N58 18 36.9180	W1 45 41.0214	0.45	1697.51	
3875.00	83.94	49.97	2954.72	2799.72	1055.03	1372.14	6464072.700	572585.520	N58 18 37.0734	W1 45 40.6594	1.75	1722.39	
3899.80	83.48	50.66	2957.43	2802.43	1070.77	1391.11	6464077.500	572591.300	N58 18 37.2250	W1 45 40.2990	3.33	1746.98	
3949.90	83.19	51.31	2963.25	2808.25	1102.10	1429.77	6464087.050	572603.080	N58 18 37.5266	W1 45 39.5646	1.41	1796.65	

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			
3974.90	83.19	51.89	2966.21	2811.21	1117.51	1449.22	6464091.740	572609.000	N58 18 37.6749	W1 45 39.1952	2.30	1821.45	
3999.90	83.41	52.34	2969.13	2814.13	1132.76	1468.82	6464096.390	572614.980	N58 18 37.8215	W1 45 38.8232	1.99	1846.26	
4024.90	83.60	52.87	2971.96	2816.96	1147.85	1488.55	6464100.990	572620.990	N58 18 37.9665	W1 45 38.4487	2.24	1871.09	
4075.00	84.08	54.04	2977.34	2822.33	1177.51	1528.57	6464110.020	572633.180	N58 18 38.2514	W1 45 37.6896	2.51	1920.89	
4099.90	84.30	54.79	2979.86	2824.86	1191.92	1548.71	6464114.420	572639.320	N58 18 38.3897	W1 45 37.3076	3.12	1945.66	
4149.90	84.38	56.72	2984.79	2829.79	1219.92	1589.84	6464122.950	572651.850	N58 18 38.6580	W1 45 36.5283	3.84	1995.40	
4174.60	84.55	57.33	2987.17	2832.17	1233.30	1610.47	6464127.020	572658.140	N58 18 38.7861	W1 45 36.1377	2.55	2019.96	
4200.00	84.54	57.96	2989.58	2834.58	1246.83	1631.83	6464131.150	572664.640	N58 18 38.9155	W1 45 35.7333	2.47	2045.20	
4225.00	85.04	58.38	2991.86	2836.85	1259.96	1652.98	6464135.150	572671.090	N58 18 39.0409	W1 45 35.3329	2.61	2070.04	
4250.00	84.99	58.94	2994.03	2839.03	1272.92	1674.25	6464139.090	572677.570	N58 18 39.1647	W1 45 34.9304	2.24	2094.88	
4274.90	85.40	59.88	2996.11	2841.11	1285.54	1695.61	6464142.940	572684.080	N58 18 39.2852	W1 45 34.5263	4.11	2119.59	
4299.80	85.41	60.64	2998.11	2843.11	1297.85	1717.16	6464146.690	572690.640	N58 18 39.4025	W1 45 34.1187	3.04	2144.28	
4324.90	85.67	61.51	3000.06	2845.06	1309.96	1739.06	6464150.380	572697.320	N58 18 39.5178	W1 45 33.7047	3.61	2169.13	
4349.70	85.54	61.98	3001.96	2846.96	1321.66	1760.84	6464153.950	572703.950	N58 18 39.6291	W1 45 33.2930	1.96	2193.65	
4374.80	85.66	62.88	3003.89	2848.89	1333.24	1783.03	6464157.480	572710.710	N58 18 39.7391	W1 45 32.8739	3.61	2218.43	
4399.70	86.51	63.71	3005.59	2850.59	1344.41	1805.22	6464160.880	572717.480	N58 18 39.8451	W1 45 32.4547	4.77	2242.96	
4424.90	86.99	64.39	3007.01	2852.01	1355.42	1827.84	6464164.230	572724.370	N58 18 39.9494	W1 45 32.0275	3.30	2267.76	
4449.80	87.65	64.84	3008.18	2853.18	1366.08	1850.31	6464167.480	572731.220	N58 18 40.0503	W1 45 31.6033	3.21	2292.23	
4484.20	87.60	64.64	3009.60	2854.60	1380.75	1881.40	6464171.950	572740.690	N58 18 40.1891	W1 45 31.0165	0.60	2326.04	
4614.00	90.80	68.08	3011.42	2856.42	1432.78	2000.26	6464187.800	572776.900	N58 18 40.6800	W1 45 28.7741	3.62	2452.94	
4707.00	88.60	68.68	3011.90	2856.90	1467.04	2086.71	6464198.240	572803.250	N58 18 41.0017	W1 45 27.1443	2.45	2543.15	
4801.00	89.60	69.04	3013.38	2858.38	1500.93	2174.37	6464208.570	572829.960	N58 18 41.3197	W1 45 25.4920	1.13	2634.13	
4898.00	92.50	69.25	3011.60	2856.60	1535.46	2264.99	6464219.090	572857.570	N58 18 41.6432	W1 45 23.7842	3.00	2727.88	
4992.00	92.10	69.21	3007.83	2852.83	1568.77	2352.81	6464229.240	572884.330	N58 18 41.9553	W1 45 22.1291	0.43	2818.65	
5084.00	88.80	68.96	3007.11	2852.11	1601.60	2438.74	6464239.240	572910.510	N58 18 42.2631	W1 45 20.5097	3.60	2907.60	
5178.00	88.10	69.62	3009.65	2854.65	1634.83	2526.63	6464249.370	572937.290	N58 18 42.5743	W1 45 18.8533	1.02	2998.38	
5274.00	90.40	70.32	3010.91	2855.91	1667.71	2616.81	6464259.390	572964.770	N58 18 42.8817	W1 45 17.1542	2.50	3090.81	
5369.00	88.00	71.23	3012.23	2857.23	1698.98	2706.49	6464268.920	572992.090	N58 18 43.1734	W1 45 15.4649	2.70	3181.91	
5463.00	88.60	70.64	3015.02	2860.02	1729.67	2795.30	6464278.270	573019.150	N58 18 43.4595	W1 45 13.7923	0.90	3271.95	
5556.00	89.40	69.37	3016.65	2861.65	1761.47	2882.68	6464287.950	573045.770	N58 18 43.7567	W1 45 12.1460	1.61	3361.47	
5651.00	89.80	68.71	3017.31	2862.31	1795.45	2971.39	6464298.310	573072.800	N58 18 44.0753	W1 45 10.4739	0.81	3453.35	
5743.00	90.50	67.78	3017.07	2862.07	1829.55	3056.83	6464308.700	573098.840	N58 18 44.3955	W1 45 8.8630	1.27	3542.65	
5839.00	91.30	67.46	3015.56	2860.56	1866.10	3145.59	6464319.830	573125.880	N58 18 44.7393	W1 45 7.1892	0.90	3636.07	
5933.00	91.10	67.35	3013.59	2858.59	1902.20	3232.36	6464330.840	573152.320	N58 18 45.0791	W1 45 5.5528	0.24	3727.61	
6029.00	90.60	67.73	3012.17	2857.17	1938.87	3321.07	6464342.010	573179.350	N58 18 45.4240	W1 45 3.8799	0.65	3821.06	
6124.00	89.80	67.87	3011.84	2856.84	1974.77	3409.02	6464352.950	573206.150	N58 18 45.7615	W1 45 2.2213	0.85	3913.45	
6217.00	88.90	68.53	3012.89	2857.89	2009.30	3495.36	6464363.470	573232.460	N58 18 46.0859	W1 45 0.5933	1.20	4003.73	
6310.00	88.60	68.15	3014.92	2859.92	2043.62	3581.78	6464373.930	573258.790	N58 18 46.4081	W1 44 58.9641	0.52	4093.94	
6405.00	88.70	68.33	3017.16	2862.16	2078.83	3669.98	6464384.650	573285.660	N58 18 46.7387	W1 44 57.3011	0.22	4186.13	
6499.00	90.10	68.36	3018.14	2863.14	2113.51	3757.34	6464395.220	573312.280	N58 18 47.0643	W1 44 55.6540	1.49	4277.32	
6593.00	90.70	68.05	3017.49	2862.49	2148.41	3844.62	6464405.860	573338.880	N58 18 47.3921	W1 44 54.0084	0.72	4368.58	
6689.00	90.30	67.95	3016.65	2861.65	2184.38	3933.63	6464416.810	573366.000	N58 18 47.7300	W1 44 52.3301	0.43	4461.85	
6782.00	89.50	68.87	3016.81	2861.81	2218.59	4020.10	6464427.240	573392.340	N58 18 48.0512	W1 44 50.6998	1.31	4552.06	
6877.00	89.30	69.07	3017.80	2862.80	2252.68	4108.77	6464437.630	573419.360	N58 18 48.3707	W1 44 49.0284	0.30	4643.97	

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			
6970.00	90.30	69.22	3018.13	2863.13	2285.79	4195.67	6464447.720	573445.840	N58 18 48.6808	W1 44 47.3904	1.09	4733.87	
7064.00	90.40	69.54	3017.55	2862.56	2318.90	4283.65	6464457.800	573472.650	N58 18 48.9907	W1 44 45.7323	0.36	4824.65	
7158.00	90.10	69.50	3017.15	2862.15	2351.78	4371.70	6464467.820	573499.480	N58 18 49.2985	W1 44 44.0727	0.32	4915.36	
7253.00	89.80	69.65	3017.23	2862.23	2384.94	4460.73	6464477.920	573526.600	N58 18 49.6087	W1 44 42.3949	0.35	5007.02	
7348.00	88.80	69.80	3018.39	2863.39	2417.85	4549.84	6464487.950	573553.750	N58 18 49.9165	W1 44 40.7157	1.06	5098.60	
7443.00	88.90	70.52	3020.30	2865.30	2450.09	4639.18	6464497.780	573580.980	N58 18 50.2176	W1 44 39.0323	0.77	5189.98	
7531.00	89.40	70.13	3021.60	2866.60	2479.72	4722.03	6464506.800	573606.220	N58 18 50.4942	W1 44 37.4713	0.72	5274.57	
7623.00	90.50	69.32	3021.68	2866.68	2511.59	4808.33	6464516.520	573632.520	N58 18 50.7923	W1 44 35.8450	1.48	5363.26	
7714.00	89.20	68.72	3021.92	2866.92	2544.18	4893.30	6464526.440	573658.410	N58 18 51.0976	W1 44 34.2434	1.57	5451.28	
7803.00	90.10	69.10	3022.46	2867.46	2576.20	4976.33	6464536.200	573683.710	N58 18 51.3977	W1 44 32.6781	1.10	5537.42	
7895.00	90.20	69.10	3022.22	2867.22	2609.02	5062.28	6464546.200	573709.890	N58 18 51.7052	W1 44 31.0580	0.11	5626.38	
7984.00	90.00	68.89	3022.07	2867.07	2640.92	5145.36	6464555.920	573735.210	N58 18 52.0041	W1 44 29.4918	0.33	5712.48	
8074.00	90.70	69.57	3021.52	2866.52	2672.84	5229.51	6464565.650	573760.850	N58 18 52.3029	W1 44 27.9057	1.08	5799.45	
8166.00	90.70	69.15	3020.39	2865.39	2705.26	5315.60	6464575.530	573787.080	N58 18 52.6064	W1 44 26.2831	0.46	5888.29	
8257.00	91.20	68.81	3018.88	2863.88	2737.90	5400.53	6464585.470	573812.960	N58 18 52.9122	W1 44 24.6820	0.66	5976.32	
8346.00	90.60	68.30	3017.49	2862.49	2770.43	5483.36	6464595.380	573838.200	N58 18 53.2174	W1 44 23.1204	0.88	6062.58	
8436.00	89.60	67.88	3017.33	2862.33	2804.02	5566.86	6464605.620	573863.640	N58 18 53.5328	W1 44 21.5458	1.21	6150.00	
8526.00	88.70	67.87	3018.66	2863.66	2837.91	5650.22	6464615.940	573889.040	N58 18 53.8512	W1 44 19.9737	1.00	6237.48	
8617.00	90.40	67.78	3019.38	2864.38	2872.25	5734.48	6464626.410	573914.710	N58 18 54.1739	W1 44 18.3845	1.87	6325.97	
8706.00	90.40	67.97	3018.76	2863.76	2905.77	5816.93	6464636.620	573939.830	N58 18 54.4888	W1 44 16.8297	0.21	6412.49	
8795.00	89.60	68.39	3018.76	2863.76	2938.85	5899.55	6464646.700	573965.010	N58 18 54.7994	W1 44 15.2716	1.02	6498.90	
8881.00	89.00	68.49	3019.81	2864.81	2970.45	5979.53	6464656.330	573989.380	N58 18 55.0959	W1 44 13.7636	0.71	6582.30	
8969.00	89.20	68.40	3021.19	2866.19	3002.78	6061.36	6464666.180	574014.310	N58 18 55.3991	W1 44 12.2206	0.25	6667.63	
9059.00	90.00	68.30	3021.82	2866.82	3035.98	6145.01	6464676.300	574039.800	N58 18 55.7107	W1 44 10.6433	0.90	6754.95	
9152.00	90.30	67.92	3021.57	2866.58	3070.66	6231.31	6464686.860	574066.090	N58 18 56.0362	W1 44 9.0160	0.52	6845.27	
9242.00	89.70	67.63	3021.57	2866.58	3104.70	6314.62	6464697.230	574091.480	N58 18 56.3561	W1 44 7.4446	0.74	6932.80	
9331.00	89.40	67.96	3022.27	2867.27	3138.33	6397.02	6464707.480	574116.590	N58 18 56.6721	W1 44 5.8906	0.50	7019.35	
9421.00	87.10	68.04	3025.02	2870.02	3172.03	6480.42	6464717.750	574142.000	N58 18 56.9886	W1 44 4.3177	2.56	7106.76	
9508.00	85.80	69.93	3030.41	2875.41	3203.17	6561.47	6464727.240	574166.690	N58 18 57.2803	W1 44 2.7897	2.63	7190.76	
9595.00	89.50	70.37	3033.98	2878.98	3232.68	6643.22	6464736.230	574191.600	N58 18 57.5558	W1 44 1.2492	4.28	7274.38	
9684.00	90.90	70.75	3033.67	2878.67	3262.30	6727.14	6464745.250	574217.170	N58 18 57.8320	W1 43 59.6680	1.63	7359.83	
9773.00	90.30	70.74	3032.73	2877.73	3291.65	6811.16	6464754.200	574242.770	N58 18 58.1054	W1 43 58.0851	0.67	7445.20	
9866.00	91.10	70.73	3031.60	2876.60	3322.33	6898.94	6464763.550	574269.520	N58 18 58.3914	W1 43 56.4312	0.86	7534.40	
9951.00	90.40	71.26	3030.49	2875.49	3350.01	6979.30	6464771.980	574294.010	N58 18 58.6490	W1 43 54.9174	1.03	7615.83	
10039.00	90.60	72.32	3029.72	2874.72	3377.50	7062.89	6464780.360	574319.480	N58 18 58.9044	W1 43 53.3431	1.23	7699.77	
10130.00	93.20	71.58	3026.70	2871.70	3405.68	7149.36	6464788.940	574345.820	N58 18 59.1659	W1 43 51.7148	2.97	7786.44	
10290.00	95.00	71.05	3015.26	2860.26	3456.81	7300.53	6464804.520	574391.880	N58 18 59.6413	W1 43 48.8672	1.17	7939.06	
10374.00	97.60	70.68	3006.04	2851.04	3484.17	7379.40	6464812.860	574415.920	N58 18 59.8962	W1 43 47.3812	3.13	8019.10	
10444.00	97.60	70.55	2996.79	2841.79	3507.20	7444.85	6464819.880	574435.860	N58 19 0.1108	W1 43 46.1480	0.18	8085.70	