



INTEQ

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 #18	Vertical Section Azimuth:	136.14 deg
Well Name:	13/22a-C24	Vertical Section Origin:	2.74S, 8.75W
Wellbore Name:	13/22a-C24 (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C24 Definitive Survey	TVD Reference Elevation:	Rig (Datum #2 155.0ft 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 26.9046, W1 46 6.8638	North Reference:	Grid
Slot Location Grid N/E Y/X:	6463750.4050 m, 572164.7640 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	-2.74	-8.75	6463750.410	572164.760	N58 18 26.9046	W1 46 6.8638	0.00	0.00		
500.50	0.00	0.00	500.50	345.50	-2.74	-8.75	6463750.410	572164.760	N58 18 26.9046	W1 46 6.8638	0.00	0.00		
525.00	0.14	115.53	525.00	370.00	-2.75	-8.72	6463750.400	572164.770	N58 18 26.9045	W1 46 6.8633	0.57	0.03		
550.00	0.15	179.40	550.00	395.00	-2.80	-8.70	6463750.390	572164.780	N58 18 26.9040	W1 46 6.8628	0.61	0.08		
575.00	0.27	194.97	575.00	420.00	-2.89	-8.71	6463750.360	572164.780	N58 18 26.9031	W1 46 6.8631	0.53	0.13		
600.00	0.40	215.63	600.00	445.00	-3.02	-8.78	6463750.320	572164.760	N58 18 26.9019	W1 46 6.8643	0.70	0.18		
625.00	0.51	159.20	625.00	470.00	-3.19	-8.79	6463750.270	572164.750	N58 18 26.9002	W1 46 6.8646	1.76	0.30		
650.00	0.69	151.99	650.00	495.00	-3.43	-8.68	6463750.200	572164.790	N58 18 26.8978	W1 46 6.8626	0.78	0.55		
700.00	2.01	137.82	699.98	544.98	-4.34	-7.95	6463749.920	572165.010	N58 18 26.8887	W1 46 6.8493	2.70	1.71		
750.00	2.37	127.98	749.95	594.95	-5.63	-6.54	6463749.520	572165.440	N58 18 26.8757	W1 46 6.8235	1.04	3.61		
800.00	3.70	107.64	799.88	644.88	-6.75	-4.19	6463749.180	572166.150	N58 18 26.8642	W1 46 6.7798	3.38	6.05		
850.00	5.40	107.31	849.72	694.72	-7.94	-0.41	6463748.820	572167.310	N58 18 26.8518	W1 46 6.7094	3.40	9.53		
900.00	6.14	112.73	899.46	744.46	-9.68	4.31	6463748.290	572168.740	N58 18 26.8339	W1 46 6.6218	1.84	14.05		
950.00	6.56	119.18	949.16	794.16	-12.10	9.27	6463747.550	572170.250	N58 18 26.8091	W1 46 6.5298	1.65	19.23		
1000.00	6.91	125.29	998.81	843.81	-15.23	14.22	6463746.600	572171.760	N58 18 26.7774	W1 46 6.4383	1.59	24.92		
1050.00	7.44	128.43	1048.42	893.42	-18.98	19.21	6463745.460	572173.280	N58 18 26.7396	W1 46 6.3462	1.32	31.08		
1100.00	8.17	130.43	1097.96	942.96	-23.30	24.45	6463744.140	572174.880	N58 18 26.6961	W1 46 6.2496	1.56	37.83		
1150.00	9.37	132.05	1147.37	992.37	-28.33	30.17	6463742.610	572176.620	N58 18 26.6456	W1 46 6.1442	2.45	45.42		
1200.00	11.91	132.74	1196.51	1041.51	-34.56	36.99	6463740.710	572178.700	N58 18 26.5830	W1 46 6.0188	5.09	54.63		
1250.00	14.53	132.78	1245.18	1090.18	-42.32	45.38	6463738.340	572181.260	N58 18 26.5050	W1 46 5.8644	5.24	66.05		
1300.00	16.25	131.65	1293.39	1138.38	-51.23	55.21	6463735.630	572184.250	N58 18 26.4155	W1 46 5.6835	3.49	79.28		
1325.00	16.60	130.96	1317.37	1162.36	-55.90	60.52	6463734.210	572185.870	N58 18 26.3686	W1 46 5.5857	1.60	86.33		
1350.00	16.97	130.38	1341.30	1186.30	-60.60	66.00	6463732.770	572187.540	N58 18 26.3212	W1 46 5.4848	1.62	93.51		
1375.00	17.41	129.61	1365.18	1210.18	-65.35	71.66	6463731.330	572189.260	N58 18 26.2735	W1 46 5.3805	1.98	100.86		
1400.00	17.90	129.03	1389.01	1234.01	-70.15	77.53	6463729.860	572191.050	N58 18 26.2251	W1 46 5.2724	2.08	108.39		
1425.00	18.64	127.85	1412.74	1257.74	-75.03	83.66	6463728.380	572192.920	N58 18 26.1760	W1 46 5.1592	3.31	116.15		
1450.00	19.24	127.14	1436.39	1281.39	-79.96	90.10	6463726.880	572194.880	N58 18 26.1262	W1 46 5.0404	2.57	124.18		
1475.00	19.74	126.44	1459.96	1304.96	-84.96	96.78	6463725.350	572196.920	N58 18 26.0758	W1 46 4.9171	2.21	132.41		

							Grid Coordinates		Geographic Coordinates		DLS	VS	Comment
MD	Inc	Azi	TVD	TVD(SS)	N/S	E/W	Northing	Easting	Latitude	Longitude			
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(m)	(m)			(deg/100ft)	(ft)	
1500.00	19.90	125.92	1483.48	1328.48	-89.96	103.63	6463723.830	572199.000	N58 18 26.0253	W1 46 4.7908	0.95	140.75	
1525.00	20.11	125.28	1506.97	1351.97	-94.94	110.58	6463722.310	572201.120	N58 18 25.9750	W1 46 4.6624	1.21	149.16	
1550.00	20.02	124.52	1530.45	1375.45	-99.85	117.61	6463720.820	572203.270	N58 18 25.9254	W1 46 4.5324	1.10	157.57	
1575.00	20.20	124.22	1553.93	1398.93	-104.70	124.71	6463719.340	572205.430	N58 18 25.8763	W1 46 4.4013	0.83	165.99	
1600.00	20.46	124.34	1577.37	1422.37	-109.59	131.88	6463717.850	572207.620	N58 18 25.8268	W1 46 4.2687	1.05	174.49	
1625.00	20.71	123.99	1600.77	1445.77	-114.53	139.16	6463716.340	572209.830	N58 18 25.7769	W1 46 4.1343	1.11	183.09	
1650.00	21.14	123.80	1624.13	1469.13	-119.51	146.57	6463714.830	572212.090	N58 18 25.7265	W1 46 3.9973	1.74	191.81	
1675.00	21.52	123.97	1647.41	1492.41	-124.58	154.12	6463713.280	572214.390	N58 18 25.6752	W1 46 3.8578	1.54	200.70	
1700.00	21.87	124.00	1670.64	1515.64	-129.74	161.78	6463711.710	572216.720	N58 18 25.6230	W1 46 3.7161	1.40	209.73	
1713.00	21.92	124.23	1682.70	1527.70	-132.46	165.79	6463710.880	572217.950	N58 18 25.5955	W1 46 3.6420	0.76	214.48	
1725.00	21.97	124.45	1693.84	1538.83	-134.99	169.50	6463710.110	572219.080	N58 18 25.5699	W1 46 3.5735	0.80	218.87	
1750.00	22.33	125.04	1716.99	1561.99	-140.36	177.24	6463708.470	572221.440	N58 18 25.5156	W1 46 3.4305	1.69	228.11	
1775.00	22.89	125.47	1740.07	1585.07	-145.91	185.09	6463706.780	572223.830	N58 18 25.4595	W1 46 3.2855	2.34	237.54	
1800.00	23.51	125.64	1763.05	1608.05	-151.64	193.10	6463705.040	572226.270	N58 18 25.4017	W1 46 3.1375	2.49	247.23	
1825.00	24.33	125.91	1785.90	1630.90	-157.57	201.33	6463703.230	572228.770	N58 18 25.3418	W1 46 2.9857	3.31	257.20	
1850.00	25.33	126.13	1808.59	1653.59	-163.74	209.82	6463701.350	572231.360	N58 18 25.2795	W1 46 2.8289	4.02	267.53	
1875.00	26.58	126.67	1831.07	1676.07	-170.23	218.62	6463699.370	572234.040	N58 18 25.2139	W1 46 2.6664	5.09	278.32	
1900.00	27.70	126.93	1853.31	1698.31	-177.06	227.76	6463697.290	572236.830	N58 18 25.1450	W1 46 2.4978	4.51	289.57	
1925.00	28.76	127.34	1875.34	1720.34	-184.20	237.18	6463695.110	572239.700	N58 18 25.0730	W1 46 2.3239	4.31	301.25	
1950.00	29.99	127.31	1897.12	1742.12	-191.64	246.93	6463692.850	572242.670	N58 18 24.9980	W1 46 2.1439	4.92	313.37	
1975.00	31.10	127.49	1918.66	1763.65	-199.36	257.03	6463690.500	572245.750	N58 18 24.9202	W1 46 1.9577	4.46	325.92	
2000.00	31.82	127.68	1939.98	1784.98	-207.31	267.37	6463688.070	572248.900	N58 18 24.8399	W1 46 1.7670	2.91	338.83	
2025.00	32.89	127.87	1961.10	1806.10	-215.51	277.94	6463685.570	572252.120	N58 18 24.7573	W1 46 1.5719	4.30	352.06	
2050.00	33.81	128.04	1981.98	1826.98	-223.96	288.78	6463683.000	572255.420	N58 18 24.6721	W1 46 1.3720	3.70	365.67	
2075.00	34.72	128.25	2002.64	1847.64	-232.66	299.85	6463680.350	572258.790	N58 18 24.5845	W1 46 1.1679	3.67	379.61	
2100.00	35.15	128.63	2023.14	1868.14	-241.56	311.06	6463677.640	572262.210	N58 18 24.4948	W1 46 0.9611	1.93	393.79	
2125.00	35.98	128.55	2043.47	1888.47	-250.63	322.42	6463674.870	572265.670	N58 18 24.4034	W1 46 0.7515	3.33	408.21	
2150.00	36.74	128.69	2063.61	1908.61	-259.88	334.00	6463672.060	572269.200	N58 18 24.3102	W1 46 0.5380	3.06	422.90	
2175.00	37.66	128.98	2083.52	1928.52	-269.36	345.78	6463669.170	572272.790	N58 18 24.2147	W1 46 0.3209	3.75	437.89	
2200.00	38.54	128.99	2103.19	1948.19	-279.06	357.77	6463666.210	572276.440	N58 18 24.1170	W1 46 0.0999	3.52	453.20	
2225.00	39.44	129.39	2122.62	1967.62	-289.00	369.96	6463663.180	572280.160	N58 18 24.0169	W1 45 59.8752	3.74	468.81	
2250.00	40.69	129.74	2141.76	1986.76	-299.25	382.36	6463660.060	572283.940	N58 18 23.9137	W1 45 59.6466	5.08	484.80	
2275.00	41.60	129.88	2160.58	2005.58	-309.78	395.00	6463656.850	572287.790	N58 18 23.8077	W1 45 59.4138	3.66	501.15	
2300.00	42.31	130.02	2179.17	2024.17	-320.51	407.81	6463653.580	572291.690	N58 18 23.6996	W1 45 59.1777	2.86	517.76	
2325.00	43.46	130.35	2197.49	2042.49	-331.49	420.81	6463650.240	572295.650	N58 18 23.5892	W1 45 58.9382	4.69	534.68	
2350.00	44.67	130.46	2215.45	2060.45	-342.76	434.05	6463646.800	572299.680	N58 18 23.4758	W1 45 58.6944	4.85	551.98	
2375.00	45.73	130.71	2233.07	2078.07	-354.30	447.52	6463643.280	572303.790	N58 18 23.3597	W1 45 58.4462	4.30	569.64	
2400.00	46.62	130.87	2250.38	2095.38	-366.09	461.17	6463639.690	572307.950	N58 18 23.2412	W1 45 58.1948	3.59	587.60	
2425.00	47.43	131.21	2267.42	2112.42	-378.10	474.97	6463636.040	572312.150	N58 18 23.1204	W1 45 57.9407	3.39	605.82	
2450.00	48.57	131.68	2284.15	2129.15	-390.39	488.90	6463632.290	572316.400	N58 18 22.9967	W1 45 57.6844	4.77	624.33	
2475.00	49.41	131.94	2300.56	2145.56	-402.97	502.96	6463628.460	572320.680	N58 18 22.8703	W1 45 57.4256	3.45	643.14	
2500.00	50.09	132.22	2316.71	2161.71	-415.76	517.12	6463624.560	572324.990	N58 18 22.7418	W1 45 57.1650	2.85	662.18	
2522.00	50.89	132.43	2330.70	2175.71	-427.19	529.67	6463621.080	572328.820	N58 18 22.6270	W1 45 56.9341	3.71	679.11	
2525.00	51.00	132.46	2332.60	2177.60	-428.76	531.39	6463620.600	572329.340	N58 18 22.6112	W1 45 56.9024	3.75	681.44	

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			
2550.00	51.89	132.74	2348.18	2193.18	-441.99	545.78	6463616.570	572333.730	N58 18 22.4783	W1 45 56.6377	3.67	700.95	
2575.00	52.31	133.16	2363.53	2208.53	-455.43	560.22	6463612.470	572338.130	N58 18 22.3433	W1 45 56.3721	2.14	720.65	
2582.00	52.56	133.24	2367.80	2212.80	-459.23	564.26	6463611.310	572339.360	N58 18 22.3051	W1 45 56.2977	3.68	726.19	
2600.00	53.19	133.45	2378.67	2223.67	-469.08	574.70	6463608.310	572342.540	N58 18 22.2062	W1 45 56.1058	3.62	740.52	
2625.00	54.23	133.80	2393.46	2238.46	-482.99	589.28	6463604.080	572346.980	N58 18 22.0666	W1 45 55.8377	4.31	760.65	
2650.00	55.09	134.03	2407.92	2252.92	-497.13	603.97	6463599.770	572351.460	N58 18 21.9247	W1 45 55.5676	3.52	781.03	
2675.00	55.74	134.11	2422.11	2267.11	-511.44	618.76	6463595.400	572355.970	N58 18 21.7810	W1 45 55.2958	2.61	801.60	
2700.00	56.46	134.46	2436.06	2281.06	-525.93	633.62	6463590.990	572360.490	N58 18 21.6356	W1 45 55.0228	3.11	822.34	
2725.00	57.82	134.71	2449.62	2294.62	-540.67	648.57	6463586.500	572365.050	N58 18 21.4877	W1 45 54.7480	5.50	843.33	
2750.00	58.97	135.25	2462.72	2307.72	-555.73	663.63	6463581.910	572369.640	N58 18 21.3368	W1 45 54.4714	4.95	864.62	
2760.00	59.19	135.46	2467.86	2312.86	-561.83	669.66	6463580.050	572371.470	N58 18 21.2756	W1 45 54.3607	2.84	873.19	
2775.00	59.51	135.78	2475.51	2320.51	-571.05	678.69	6463577.240	572374.220	N58 18 21.1831	W1 45 54.1950	2.81	886.10	
2800.00	59.86	136.13	2488.13	2333.13	-586.56	693.69	6463572.520	572378.800	N58 18 21.0276	W1 45 53.9195	1.85	907.68	
2825.00	60.14	136.19	2500.63	2345.63	-602.18	708.69	6463567.760	572383.360	N58 18 20.8711	W1 45 53.6443	1.14	929.33	
2850.00	60.49	136.32	2513.01	2358.01	-617.87	723.70	6463562.980	572387.940	N58 18 20.7138	W1 45 53.3687	1.47	951.05	
2875.00	60.39	136.32	2525.34	2370.34	-633.60	738.72	6463558.180	572392.520	N58 18 20.5562	W1 45 53.0931	0.40	972.80	
2900.00	60.44	136.57	2537.68	2382.68	-649.35	753.70	6463553.380	572397.080	N58 18 20.3983	W1 45 52.8182	0.89	994.54	
2925.00	60.60	136.71	2549.99	2394.99	-665.18	768.64	6463548.560	572401.630	N58 18 20.2398	W1 45 52.5440	0.80	1016.30	
2950.00	60.70	136.65	2562.24	2407.24	-681.03	783.60	6463543.730	572406.190	N58 18 20.0809	W1 45 52.2697	0.45	1038.09	
2975.00	60.69	136.68	2574.48	2419.48	-696.89	798.56	6463538.900	572410.750	N58 18 19.9220	W1 45 51.9952	0.11	1059.89	
3025.00	61.06	136.40	2598.81	2443.81	-728.59	828.60	6463529.240	572419.900	N58 18 19.6044	W1 45 51.4439	0.89	1103.56	
3050.00	61.00	136.39	2610.92	2455.92	-744.43	843.68	6463524.410	572424.500	N58 18 19.4456	W1 45 51.1671	0.24	1125.44	
3075.00	60.99	136.47	2623.04	2468.04	-760.27	858.75	6463519.590	572429.090	N58 18 19.2869	W1 45 50.8905	0.28	1147.30	
3100.00	61.16	136.34	2635.14	2480.14	-776.12	873.84	6463514.760	572433.690	N58 18 19.1281	W1 45 50.6137	0.82	1169.18	
3150.00	61.45	136.23	2659.14	2504.14	-807.82	904.15	6463505.100	572442.920	N58 18 18.8104	W1 45 50.0574	0.61	1213.04	
3175.00	61.66	136.13	2671.05	2516.05	-823.68	919.37	6463500.270	572447.560	N58 18 18.6514	W1 45 49.7780	0.91	1235.02	
3200.00	61.70	136.27	2682.91	2527.91	-839.56	934.61	6463495.430	572452.200	N58 18 18.4922	W1 45 49.4985	0.52	1257.03	
3225.00	62.31	136.34	2694.65	2539.65	-855.52	949.86	6463490.560	572456.850	N58 18 18.3322	W1 45 49.2186	2.45	1279.10	
3250.00	63.41	136.49	2706.05	2551.05	-871.64	965.19	6463485.650	572461.520	N58 18 18.1707	W1 45 48.9372	4.43	1301.35	
3275.00	65.03	136.68	2716.92	2561.92	-887.99	980.66	6463480.670	572466.240	N58 18 18.0069	W1 45 48.6533	6.52	1323.86	
3300.00	66.32	136.70	2727.22	2572.22	-904.57	996.29	6463475.620	572471.000	N58 18 17.8408	W1 45 48.3666	5.16	1346.64	
3325.00	66.87	136.66	2737.15	2582.15	-921.26	1012.03	6463470.540	572475.790	N58 18 17.6735	W1 45 48.0778	2.20	1369.58	
3350.00	67.25	136.31	2746.89	2591.89	-937.95	1027.88	6463465.450	572480.620	N58 18 17.5062	W1 45 47.7869	1.99	1392.61	
3375.00	67.87	135.97	2756.44	2601.44	-954.61	1043.89	6463460.370	572485.500	N58 18 17.3392	W1 45 47.4931	2.78	1415.71	
3400.00	68.31	135.89	2765.77	2610.77	-971.28	1060.03	6463455.290	572490.420	N58 18 17.1722	W1 45 47.1969	1.78	1438.91	
3425.00	68.75	135.81	2774.92	2619.92	-987.97	1076.23	6463450.210	572495.350	N58 18 17.0048	W1 45 46.8995	1.79	1462.17	
3450.00	69.54	135.62	2783.82	2628.82	-1004.70	1092.54	6463445.110	572500.330	N58 18 16.8372	W1 45 46.6000	3.24	1485.53	
3475.00	69.97	135.45	2792.47	2637.47	-1021.44	1108.97	6463440.010	572505.330	N58 18 16.6693	W1 45 46.2983	1.83	1508.99	
3500.00	70.48	135.48	2800.93	2645.93	-1038.21	1125.47	6463434.900	572510.360	N58 18 16.5012	W1 45 45.9954	2.04	1532.51	
3525.00	71.00	135.41	2809.17	2654.17	-1055.02	1142.03	6463429.780	572515.400	N58 18 16.3325	W1 45 45.6913	2.10	1556.11	
3530.00	71.07	135.40	2810.80	2655.80	-1058.39	1145.35	6463428.750	572516.420	N58 18 16.2987	W1 45 45.6304	1.41	1560.84	
3550.00	71.34	135.38	2817.24	2662.24	-1071.87	1158.65	6463424.640	572520.470	N58 18 16.1636	W1 45 45.3862	1.35	1579.77	
3575.00	71.63	135.21	2825.18	2670.18	-1088.72	1175.32	6463419.510	572525.550	N58 18 15.9946	W1 45 45.0800	1.33	1603.47	
3600.00	72.26	135.23	2832.93	2677.93	-1105.59	1192.07	6463414.370	572530.650	N58 18 15.8254	W1 45 44.7725	2.52	1627.24	

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			
3625.00	72.89	135.23	2840.41	2685.41	-1122.52	1208.86	6463409.210	572535.770	N58 18 15.6556	W1 45 44.4640	2.52	1651.09	
3650.00	73.50	135.29	2847.64	2692.64	-1139.52	1225.71	6463404.030	572540.900	N58 18 15.4851	W1 45 44.1546	2.45	1675.02	
3675.00	74.01	135.36	2854.64	2699.64	-1156.59	1242.59	6463398.830	572546.040	N58 18 15.3139	W1 45 43.8448	2.06	1699.02	
3700.00	74.55	135.34	2861.41	2706.41	-1173.71	1259.50	6463393.610	572551.200	N58 18 15.1423	W1 45 43.5342	2.16	1723.08	
3725.00	75.25	135.51	2867.92	2712.92	-1190.90	1276.44	6463388.370	572556.360	N58 18 14.9698	W1 45 43.2232	2.88	1747.21	
3750.00	76.29	135.52	2874.07	2719.07	-1208.19	1293.42	6463383.110	572561.530	N58 18 14.7965	W1 45 42.9114	4.16	1771.45	
3775.00	76.83	135.43	2879.88	2724.88	-1225.53	1310.47	6463377.820	572566.730	N58 18 14.6227	W1 45 42.5983	2.19	1795.76	
3800.00	77.12	135.74	2885.51	2730.51	-1242.93	1327.51	6463372.520	572571.920	N58 18 14.4482	W1 45 42.2854	1.67	1820.11	
3825.00	77.85	135.97	2890.93	2735.93	-1260.44	1344.51	6463367.190	572577.100	N58 18 14.2726	W1 45 41.9733	3.06	1844.52	
3850.00	78.36	136.18	2896.08	2741.08	-1278.06	1361.48	6463361.820	572582.270	N58 18 14.0960	W1 45 41.6619	2.20	1868.98	
3875.00	78.78	136.24	2901.04	2746.04	-1295.75	1378.44	6463356.430	572587.440	N58 18 13.9187	W1 45 41.3507	1.70	1893.49	
3900.00	79.31	136.22	2905.79	2750.79	-1313.47	1395.42	6463351.030	572592.610	N58 18 13.7411	W1 45 41.0391	2.12	1918.03	
3925.00	79.76	136.13	2910.33	2755.33	-1331.21	1412.44	6463345.620	572597.800	N58 18 13.5633	W1 45 40.7267	1.83	1942.62	
3950.00	80.09	136.07	2914.70	2759.70	-1348.94	1429.51	6463340.220	572603.000	N58 18 13.3855	W1 45 40.4134	1.34	1967.23	
3975.00	80.54	136.15	2918.91	2763.91	-1366.70	1446.59	6463334.810	572608.200	N58 18 13.2075	W1 45 40.0999	1.83	1991.87	
4000.00	81.26	136.12	2922.86	2767.86	-1384.50	1463.70	6463329.390	572613.420	N58 18 13.0291	W1 45 39.7859	2.88	2016.56	
4025.00	81.58	136.00	2926.59	2771.59	-1402.30	1480.85	6463323.960	572618.640	N58 18 12.8507	W1 45 39.4711	1.37	2041.28	
4050.00	81.67	136.01	2930.23	2775.23	-1420.09	1498.03	6463318.540	572623.880	N58 18 12.6723	W1 45 39.1558	0.36	2066.01	
4075.00	82.03	135.88	2933.78	2778.78	-1437.88	1515.24	6463313.120	572629.120	N58 18 12.4940	W1 45 38.8399	1.53	2090.76	
4100.00	82.54	135.91	2937.13	2782.13	-1455.67	1532.48	6463307.700	572634.370	N58 18 12.3157	W1 45 38.5235	2.04	2115.53	
4125.00	82.66	135.72	2940.35	2785.35	-1473.45	1549.76	6463302.280	572639.640	N58 18 12.1375	W1 45 38.2063	0.89	2140.32	
4150.00	83.21	135.65	2943.43	2788.43	-1491.20	1567.10	6463296.880	572644.920	N58 18 11.9595	W1 45 37.8881	2.22	2165.13	
4175.00	83.94	135.66	2946.22	2791.22	-1508.96	1584.46	6463291.460	572650.210	N58 18 11.7813	W1 45 37.5693	2.92	2189.98	
4200.00	84.26	135.68	2948.79	2793.79	-1526.75	1601.84	6463286.040	572655.510	N58 18 11.6030	W1 45 37.2503	1.28	2214.84	
4225.00	84.55	135.60	2951.23	2796.23	-1544.54	1619.23	6463280.620	572660.810	N58 18 11.4246	W1 45 36.9309	1.20	2239.72	
4250.00	84.78	135.62	2953.56	2798.56	-1562.33	1636.65	6463275.200	572666.110	N58 18 11.2463	W1 45 36.6113	0.92	2264.61	
4275.00	84.70	135.72	2955.85	2800.85	-1580.14	1654.04	6463269.780	572671.410	N58 18 11.0677	W1 45 36.2919	0.51	2289.51	
4295.00	84.64	135.66	2957.71	2802.71	-1594.39	1667.95	6463265.430	572675.650	N58 18 10.9248	W1 45 36.0366	0.42	2309.42	
4300.00	84.63	135.65	2958.17	2803.17	-1597.95	1671.43	6463264.350	572676.710	N58 18 10.8892	W1 45 35.9727	0.28	2314.40	
4325.00	84.69	135.64	2960.50	2805.50	-1615.74	1688.83	6463258.930	572682.010	N58 18 10.7107	W1 45 35.6532	0.24	2339.29	
4350.00	84.55	135.56	2962.84	2807.84	-1633.53	1706.25	6463253.510	572687.320	N58 18 10.5324	W1 45 35.3335	0.64	2364.18	
4375.00	84.63	135.53	2965.20	2810.20	-1651.29	1723.68	6463248.100	572692.630	N58 18 10.3542	W1 45 35.0135	0.34	2389.06	
4400.00	84.74	135.36	2967.52	2812.52	-1669.03	1741.14	6463242.690	572697.950	N58 18 10.1764	W1 45 34.6928	0.81	2413.96	
4425.00	84.64	135.39	2969.83	2814.83	-1686.75	1758.63	6463237.290	572703.280	N58 18 9.9987	W1 45 34.3718	0.42	2438.85	
4450.00	83.79	135.33	2972.35	2817.35	-1704.44	1776.11	6463231.900	572708.610	N58 18 9.8212	W1 45 34.0509	3.41	2463.72	
4475.00	83.19	135.09	2975.18	2820.18	-1722.07	1793.61	6463226.530	572713.940	N58 18 9.6444	W1 45 33.7296	2.58	2488.55	
4500.00	82.93	135.04	2978.21	2823.21	-1739.64	1811.13	6463221.180	572719.280	N58 18 9.4682	W1 45 33.4077	1.06	2513.36	
4525.00	83.18	135.24	2981.23	2826.23	-1757.23	1828.64	6463215.820	572724.610	N58 18 9.2918	W1 45 33.0862	1.28	2538.18	
4550.00	83.41	135.72	2984.15	2829.15	-1774.93	1846.05	6463210.420	572729.920	N58 18 9.1143	W1 45 32.7666	2.12	2563.00	
4575.00	83.09	135.91	2987.09	2832.09	-1792.74	1863.35	6463205.000	572735.190	N58 18 8.9358	W1 45 32.4490	1.49	2587.83	
4600.00	82.85	136.01	2990.15	2835.15	-1810.58	1880.60	6463199.560	572740.440	N58 18 8.7570	W1 45 32.1324	1.04	2612.64	
4625.00	82.68	136.16	2993.29	2838.29	-1828.44	1897.80	6463194.120	572745.690	N58 18 8.5779	W1 45 31.8167	0.90	2637.44	
4650.00	82.93	136.24	2996.43	2841.43	-1846.34	1914.97	6463188.660	572750.920	N58 18 8.3984	W1 45 31.5017	1.05	2662.25	
4660.00	83.16	136.38	2997.64	2842.64	-1853.52	1921.83	6463186.480	572753.010	N58 18 8.3265	W1 45 31.3759	2.69	2672.17	

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			
4675.00	83.50	136.59	2999.38	2844.38	-1864.32	1932.08	6463183.190	572756.130	N58 18 8.2182	W1 45 31.1877	2.66	2687.07	
4700.00	84.06	136.63	3002.09	2847.09	-1882.39	1949.16	6463177.680	572761.330	N58 18 8.0372	W1 45 30.8745	2.25	2711.92	
4725.00	84.19	136.58	3004.65	2849.65	-1900.45	1966.24	6463172.180	572766.540	N58 18 7.8561	W1 45 30.5610	0.56	2736.79	
4750.00	84.01	136.60	3007.22	2852.22	-1918.52	1983.33	6463166.670	572771.750	N58 18 7.6751	W1 45 30.2475	0.72	2761.66	
4775.00	83.68	136.51	3009.90	2854.90	-1936.57	2000.42	6463161.170	572776.950	N58 18 7.4943	W1 45 29.9340	1.37	2786.51	
4800.00	84.20	136.39	3012.54	2857.54	-1954.58	2017.55	6463155.680	572782.170	N58 18 7.3137	W1 45 29.6197	2.13	2811.37	
4825.00	84.88	136.40	3014.91	2859.91	-1972.61	2034.71	6463150.190	572787.400	N58 18 7.1331	W1 45 29.3048	2.72	2836.26	
4850.00	85.36	136.28	3017.04	2862.04	-1990.63	2051.91	6463144.700	572792.640	N58 18 6.9525	W1 45 28.9893	1.98	2861.17	
4875.00	85.59	136.28	3019.01	2864.01	-2008.64	2069.14	6463139.210	572797.890	N58 18 6.7719	W1 45 28.6732	0.92	2886.09	
4900.00	85.70	136.40	3020.91	2865.91	-2026.67	2086.35	6463133.720	572803.130	N58 18 6.5912	W1 45 28.3574	0.65	2911.02	
4925.00	85.71	136.35	3022.78	2867.78	-2044.72	2103.55	6463128.220	572808.380	N58 18 6.4103	W1 45 28.0419	0.20	2935.95	
4950.00	85.55	136.28	3024.69	2869.69	-2062.74	2120.76	6463122.730	572813.620	N58 18 6.2296	W1 45 27.7260	0.70	2960.87	
4975.00	85.53	136.33	3026.63	2871.63	-2080.76	2137.98	6463117.240	572818.870	N58 18 6.0490	W1 45 27.4100	0.21	2985.80	
5000.00	85.55	136.38	3028.58	2873.58	-2098.80	2155.18	6463111.740	572824.110	N58 18 5.8682	W1 45 27.0944	0.21	3010.72	
5020.00	86.14	136.33	3030.03	2875.03	-2113.24	2168.95	6463107.340	572828.300	N58 18 5.7236	W1 45 26.8418	2.96	3030.67	
5025.00	86.29	136.32	3030.36	2875.36	-2116.84	2172.40	6463106.240	572829.350	N58 18 5.6874	W1 45 26.7786	3.01	3035.66	
5050.00	87.15	136.19	3031.79	2876.79	-2134.87	2189.65	6463100.750	572834.610	N58 18 5.5067	W1 45 26.4619	3.48	3060.62	
5075.00	87.46	135.98	3032.96	2877.96	-2152.86	2206.97	6463095.270	572839.890	N58 18 5.3263	W1 45 26.1441	1.50	3085.59	
5100.00	87.99	136.03	3033.95	2878.95	-2170.83	2224.33	6463089.790	572845.180	N58 18 5.1462	W1 45 25.8257	2.13	3110.57	
5125.00	89.00	135.96	3034.61	2879.61	-2188.81	2241.69	6463084.320	572850.470	N58 18 4.9660	W1 45 25.5070	4.05	3135.56	
5168.00	89.51	135.35	3035.17	2880.17	-2219.56	2271.74	6463074.950	572859.620	N58 18 4.6577	W1 45 24.9554	1.85	3178.56	
5332.00	90.37	132.20	3035.34	2880.34	-2333.00	2390.14	6463040.380	572895.700	N58 18 3.5188	W1 45 22.7793	1.99	3342.39	
5416.00	90.71	130.45	3034.55	2879.55	-2388.47	2453.22	6463023.480	572914.920	N58 18 2.9610	W1 45 21.6184	2.12	3426.09	
5511.00	89.14	131.04	3034.68	2879.67	-2450.47	2525.19	6463004.590	572936.850	N58 18 2.3373	W1 45 20.2933	1.77	3520.67	
5605.00	89.77	130.91	3035.57	2880.57	-2512.11	2596.16	6462985.810	572958.470	N58 18 1.7173	W1 45 18.9869	0.68	3614.28	
5698.00	89.74	130.25	3035.97	2880.97	-2572.60	2666.79	6462967.370	572979.990	N58 18 1.1086	W1 45 17.6864	0.71	3706.84	
5794.00	90.46	129.09	3035.80	2880.80	-2633.88	2740.68	6462948.700	573002.510	N58 18 0.4915	W1 45 16.3251	1.42	3802.23	
5887.00	90.20	129.25	3035.26	2880.26	-2692.62	2812.78	6462930.800	573024.480	N58 17 59.8998	W1 45 14.9966	0.33	3894.54	
5980.00	90.26	130.38	3034.89	2879.89	-2752.17	2884.21	6462912.660	573046.240	N58 17 59.3003	W1 45 13.6808	1.22	3986.97	
6072.00	89.89	130.37	3034.77	2879.77	-2811.77	2954.30	6462894.500	573067.600	N58 17 58.7005	W1 45 12.3902	0.40	4078.51	
6162.00	89.51	130.97	3035.24	2880.24	-2870.42	3022.56	6462876.630	573088.400	N58 17 58.1104	W1 45 11.1334	0.79	4168.09	
6250.00	91.00	131.03	3034.85	2879.85	-2928.15	3088.97	6462859.040	573108.630	N58 17 57.5297	W1 45 9.9109	1.69	4255.74	
6344.00	89.86	129.19	3034.14	2879.14	-2988.70	3160.86	6462840.590	573130.540	N58 17 56.9202	W1 45 8.5871	2.30	4349.21	
6436.00	89.83	130.13	3034.39	2879.39	-3047.42	3231.69	6462822.700	573152.120	N58 17 56.3289	W1 45 7.2824	1.02	4440.62	
6525.00	90.09	130.09	3034.45	2879.45	-3104.76	3299.75	6462805.230	573172.860	N58 17 55.7517	W1 45 6.0289	0.30	4529.13	
6618.00	89.80	129.55	3034.54	2879.54	-3164.31	3371.18	6462787.080	573194.620	N58 17 55.1521	W1 45 4.7132	0.66	4621.56	
6709.00	89.63	130.18	3035.00	2880.00	-3222.64	3441.03	6462769.310	573215.900	N58 17 54.5649	W1 45 3.4268	0.72	4712.02	
6800.00	90.86	129.80	3034.61	2879.61	-3281.12	3510.75	6462751.490	573237.150	N58 17 53.9761	W1 45 2.1428	1.41	4802.49	
6891.00	89.83	129.73	3034.06	2879.06	-3339.33	3580.69	6462733.760	573258.460	N58 17 53.3901	W1 45 0.8544	1.13	4892.93	
6983.00	91.37	130.83	3033.10	2878.10	-3398.80	3650.87	6462715.630	573279.840	N58 17 52.7915	W1 44 59.5622	2.06	4984.44	
7075.00	93.20	131.19	3029.43	2874.43	-3459.12	3720.24	6462697.250	573300.980	N58 17 52.1847	W1 44 58.2855	2.03	5075.99	
7166.00	93.32	131.90	3024.25	2869.25	-3519.37	3788.24	6462678.900	573321.700	N58 17 51.5788	W1 44 57.0344	0.79	5166.55	
7256.00	92.00	131.35	3020.08	2865.08	-3579.09	3855.44	6462660.700	573342.170	N58 17 50.9783	W1 44 55.7980	1.59	5256.17	
7348.00	93.95	131.61	3015.30	2860.30	-3639.94	3924.27	6462642.160	573363.140	N58 17 50.3664	W1 44 54.5315	2.14	5347.74	

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)	
7441.00	93.06	132.10	3009.62	2854.62	-3701.88	3993.41	6462623.290	573384.210	N58 17 49.7437	W1 44 53.2596	1.09	5440.31	
7532.00	92.11	133.45	3005.51	2850.51	-3763.61	4060.13	6462604.480	573404.540	N58 17 49.1234	W1 44 52.0329	1.81	5531.05	
7624.00	93.15	135.82	3001.29	2846.29	-3828.18	4125.52	6462584.800	573424.470	N58 17 48.4755	W1 44 50.8320	2.81	5622.92	
7716.00	92.66	136.73	2996.63	2841.63	-3894.58	4189.03	6462564.570	573443.820	N58 17 47.8099	W1 44 49.6671	1.12	5714.80	
7806.00	90.31	138.65	2994.30	2839.29	-3961.10	4249.59	6462544.300	573462.270	N58 17 47.1436	W1 44 48.5575	3.37	5804.72	
7898.00	89.37	142.39	2994.55	2839.55	-4032.10	4308.07	6462522.670	573480.090	N58 17 46.4336	W1 44 47.4881	4.19	5896.44	
7988.00	90.06	144.20	2995.00	2840.00	-4104.25	4361.86	6462500.680	573496.480	N58 17 45.7131	W1 44 46.5071	2.15	5985.73	
8081.00	89.51	147.38	2995.35	2840.35	-4181.15	4414.14	6462477.250	573512.410	N58 17 44.9461	W1 44 45.5559	3.47	6077.40	
8188.00	90.29	150.47	2995.53	2840.54	-4272.78	4469.36	6462449.330	573529.230	N58 17 44.0334	W1 44 44.5548	2.98	6181.73	
8264.00	90.57	151.98	2994.97	2839.97	-4339.39	4505.94	6462429.040	573540.380	N58 17 43.3707	W1 44 43.8937	2.02	6255.11	
8356.00	90.11	152.06	2994.42	2839.42	-4420.64	4549.10	6462404.280	573553.530	N58 17 42.5625	W1 44 43.1146	0.51	6343.60	
8451.00	88.37	151.36	2995.68	2840.68	-4504.28	4594.12	6462378.800	573567.250	N58 17 41.7305	W1 44 42.3016	1.97	6435.10	
8544.00	88.20	152.06	2998.46	2843.46	-4586.14	4638.18	6462353.860	573580.670	N58 17 40.9162	W1 44 41.5061	0.77	6524.64	
8635.00	87.86	152.17	3001.59	2846.59	-4666.52	4680.71	6462329.360	573593.630	N58 17 40.1166	W1 44 40.7384	0.39	6612.08	
8726.00	87.77	151.50	3005.06	2850.06	-4746.69	4723.64	6462304.940	573606.710	N58 17 39.3191	W1 44 39.9635	0.74	6699.62	
8816.00	88.71	150.58	3007.82	2852.82	-4825.40	4767.19	6462280.950	573619.980	N58 17 38.5359	W1 44 39.1762	1.46	6786.55	
8910.00	88.83	150.30	3009.84	2854.84	-4907.14	4813.56	6462256.050	573634.110	N58 17 37.7223	W1 44 38.3375	0.32	6877.62	
9001.00	88.86	149.42	3011.68	2856.68	-4985.82	4859.24	6462232.070	573648.030	N58 17 36.9389	W1 44 37.5104	0.97	6966.00	
9094.00	89.11	148.83	3013.32	2858.32	-5065.63	4906.95	6462207.760	573662.570	N58 17 36.1441	W1 44 36.6457	0.69	7056.61	
9185.00	88.40	148.77	3015.30	2860.30	-5143.45	4954.08	6462184.040	573676.930	N58 17 35.3690	W1 44 35.7914	0.78	7145.37	
9259.00	88.00	148.77	3017.63	2862.63	-5206.69	4992.43	6462164.770	573688.610	N58 17 34.7390	W1 44 35.0961	0.54	7217.54	