



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 #24	Vertical Section Azimuth:	119.52 deg
Well Name:	13/22a-C25	Vertical Section Origin:	8.86N, 8.54W
Wellbore Name:	13/22a-C25 (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C25 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 27.0188, W1 46 6.8559	North Reference:	Grid
Slot Location Grid N/E Y/X:	6463753.9400 m, 572164.8280 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	8.86	-8.54	6463753.940	572164.830	N58 18 27.0188	W1 46 6.8559	0.00	0.00	
500.50	0.00	330.00	500.50	345.50	8.86	-8.54	6463753.940	572164.830	N58 18 27.0188	W1 46 6.8559	0.00	0.00	
550.00	0.65	45.30	550.00	395.00	9.06	-8.34	6463754.000	572164.890	N58 18 27.0207	W1 46 6.8521	1.31	0.08	
600.00	0.75	36.60	600.00	445.00	9.52	-7.94	6463754.140	572165.010	N58 18 27.0252	W1 46 6.8445	0.29	0.19	
650.00	0.81	34.30	649.99	494.99	10.08	-7.55	6463754.310	572165.130	N58 18 27.0306	W1 46 6.8369	0.14	0.26	
700.00	1.19	24.40	699.98	544.98	10.84	-7.13	6463754.540	572165.260	N58 18 27.0381	W1 46 6.8289	0.83	0.25	
750.00	2.32	355.80	749.96	594.96	12.32	-7.00	6463754.990	572165.300	N58 18 27.0527	W1 46 6.8258	2.79	-0.36	
800.00	3.74	350.00	799.89	644.89	14.94	-7.35	6463755.790	572165.190	N58 18 27.0785	W1 46 6.8316	2.90	-1.96	
850.00	5.32	343.90	849.73	694.73	18.77	-8.28	6463756.960	572164.910	N58 18 27.1164	W1 46 6.8476	3.30	-4.66	
900.00	6.62	339.10	899.46	744.46	23.69	-9.95	6463758.460	572164.400	N58 18 27.1652	W1 46 6.8772	2.78	-8.53	
950.00	8.20	338.90	949.04	794.04	29.71	-12.26	6463760.290	572163.690	N58 18 27.2249	W1 46 6.9184	3.16	-13.51	
1000.00	9.69	338.70	998.43	843.43	36.96	-15.07	6463762.500	572162.840	N58 18 27.2968	W1 46 6.9685	2.98	-19.53	
1050.00	10.95	339.50	1047.62	892.62	45.33	-18.27	6463765.050	572161.860	N58 18 27.3798	W1 46 7.0254	2.54	-26.43	
1100.00	12.04	338.70	1096.62	941.62	54.63	-21.82	6463767.890	572160.780	N58 18 27.4721	W1 46 7.0888	2.20	-34.12	
1150.00	13.58	336.50	1145.37	990.37	64.88	-26.06	6463771.010	572159.490	N58 18 27.5737	W1 46 7.1645	3.23	-42.85	
1200.00	15.07	334.20	1193.82	1038.82	76.11	-31.23	6463774.430	572157.910	N58 18 27.6853	W1 46 7.2574	3.19	-52.88	
1225.00	15.95	332.60	1217.91	1062.91	82.09	-34.22	6463776.250	572157.000	N58 18 27.7447	W1 46 7.3114	3.91	-58.43	
1250.00	16.73	331.20	1241.90	1086.90	88.29	-37.54	6463778.140	572155.990	N58 18 27.8064	W1 46 7.3713	3.50	-64.38	
1275.00	17.66	329.80	1265.78	1110.78	94.72	-41.18	6463780.100	572154.880	N58 18 27.8704	W1 46 7.4373	4.07	-70.71	
1300.00	18.82	328.30	1289.52	1134.52	101.43	-45.21	6463782.150	572153.660	N58 18 27.9372	W1 46 7.5103	5.01	-77.52	
1325.00	20.06	327.20	1313.10	1158.10	108.47	-49.65	6463784.290	572152.300	N58 18 28.0073	W1 46 7.5910	5.17	-84.85	
1350.00	21.28	326.40	1336.49	1181.49	115.85	-54.48	6463786.540	572150.830	N58 18 28.0809	W1 46 7.6789	5.01	-92.70	
1375.00	22.51	326.00	1359.68	1204.68	123.60	-59.67	6463788.900	572149.250	N58 18 28.1581	W1 46 7.7733	4.96	-101.03	
1400.00	23.49	325.60	1382.69	1227.69	131.67	-65.16	6463791.360	572147.580	N58 18 28.2387	W1 46 7.8733	3.97	-109.79	
1425.00	24.13	325.50	1405.57	1250.57	140.00	-70.87	6463793.900	572145.840	N58 18 28.3217	W1 46 7.9773	2.57	-118.86	
1450.00	24.41	325.70	1428.36	1273.36	148.47	-76.67	6463796.480	572144.070	N58 18 28.4062	W1 46 8.0831	1.17	-128.09	
1475.00	24.24	326.30	1451.14	1296.14	157.01	-82.43	6463799.080	572142.310	N58 18 28.4913	W1 46 8.1879	1.20	-137.30	
1500.00	24.27	326.50	1473.93	1318.93	165.57	-88.11	6463801.690	572140.580	N58 18 28.5766	W1 46 8.2913	0.35	-146.47	

							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)	
1525.00	24.43	326.70	1496.71	1341.71	174.17	-93.79	6463804.310	572138.850	N58 18 28.6624	W1 46 8.3946	0.72	-155.64	
1550.00	24.43	326.90	1519.47	1364.47	182.82	-99.45	6463806.950	572137.130	N58 18 28.7486	W1 46 8.4975	0.33	-164.83	
1575.00	24.22	327.30	1542.25	1387.25	191.47	-105.04	6463809.580	572135.420	N58 18 28.8348	W1 46 8.5993	1.07	-173.96	
1600.00	23.96	327.90	1565.07	1410.07	200.09	-110.51	6463812.210	572133.760	N58 18 28.9206	W1 46 8.6986	1.43	-182.96	
1625.00	23.54	328.40	1587.95	1432.95	208.64	-115.83	6463814.810	572132.140	N58 18 29.0058	W1 46 8.7951	1.86	-191.80	
1650.00	22.99	328.90	1610.92	1455.92	217.07	-120.96	6463817.380	572130.570	N58 18 29.0898	W1 46 8.8884	2.34	-200.43	
1675.00	22.30	329.40	1633.99	1478.99	225.33	-125.90	6463819.900	572129.070	N58 18 29.1721	W1 46 8.9779	2.87	-208.80	
1700.00	21.45	329.80	1657.19	1502.19	233.37	-130.61	6463822.350	572127.630	N58 18 29.2521	W1 46 9.0634	3.45	-216.86	
1725.00	20.57	330.20	1680.53	1525.53	241.13	-135.10	6463824.710	572126.270	N58 18 29.3293	W1 46 9.1446	3.57	-224.58	
1750.00	19.86	330.40	1703.99	1548.99	248.63	-139.38	6463827.000	572124.960	N58 18 29.4040	W1 46 9.2222	2.85	-232.00	
1775.00	19.25	330.70	1727.55	1572.55	255.92	-143.49	6463829.220	572123.710	N58 18 29.4765	W1 46 9.2967	2.47	-239.18	
1800.00	18.22	331.20	1751.22	1596.22	262.94	-147.39	6463831.360	572122.520	N58 18 29.5463	W1 46 9.3672	4.17	-246.03	
1825.00	16.65	332.20	1775.08	1620.08	269.53	-150.94	6463833.370	572121.440	N58 18 29.6119	W1 46 9.4315	6.39	-252.37	
1850.00	15.30	333.20	1799.11	1644.11	275.64	-154.10	6463835.230	572120.480	N58 18 29.6727	W1 46 9.4885	5.51	-258.13	
1900.00	13.00	333.50	1847.59	1692.59	286.57	-159.59	6463838.560	572118.800	N58 18 29.7813	W1 46 9.5874	4.60	-268.28	
1950.00	10.51	333.90	1896.54	1741.54	295.69	-164.10	6463841.340	572117.430	N58 18 29.8720	W1 46 9.6688	4.98	-276.71	
2000.00	7.57	340.40	1945.91	1790.91	302.89	-167.21	6463843.530	572116.480	N58 18 29.9435	W1 46 9.7245	6.22	-282.97	
2050.00	5.57	359.40	1995.59	1840.59	308.43	-168.34	6463845.220	572116.140	N58 18 29.9981	W1 46 9.7438	5.86	-286.68	
2100.00	5.41	29.60	2045.37	1890.37	312.90	-167.21	6463846.580	572116.480	N58 18 30.0420	W1 46 9.7210	5.72	-287.89	
2150.00	5.89	53.60	2095.13	1940.13	316.47	-163.98	6463847.670	572117.470	N58 18 30.0766	W1 46 9.6593	4.78	-286.84	
2200.00	6.86	73.50	2144.83	1989.83	318.85	-159.05	6463848.390	572118.970	N58 18 30.0991	W1 46 9.5662	4.79	-283.72	
2250.00	8.43	89.70	2194.39	2039.39	319.71	-152.52	6463848.660	572120.960	N58 18 30.1065	W1 46 9.4438	5.30	-278.47	
2300.00	10.91	106.30	2243.68	2088.68	318.40	-144.31	6463848.260	572123.460	N58 18 30.0921	W1 46 9.2906	7.42	-270.68	
2350.00	13.68	114.20	2292.53	2137.53	314.65	-134.37	6463847.110	572126.490	N58 18 30.0533	W1 46 9.1059	6.47	-260.18	
2400.00	16.20	119.60	2340.84	2185.84	308.78	-122.91	6463845.320	572129.980	N58 18 29.9934	W1 46 8.8935	5.75	-247.32	
2425.00	17.69	124.60	2364.76	2209.76	304.90	-116.75	6463844.140	572131.860	N58 18 29.9541	W1 46 8.7795	8.33	-240.05	
2450.00	19.34	128.60	2388.46	2233.46	300.16	-110.39	6463842.700	572133.790	N58 18 29.9063	W1 46 8.6621	8.33	-232.18	
2475.00	21.00	130.90	2411.93	2256.93	294.64	-103.77	6463841.020	572135.810	N58 18 29.8508	W1 46 8.5401	7.36	-223.69	
2500.00	22.58	132.30	2435.14	2280.14	288.48	-96.83	6463839.140	572137.930	N58 18 29.7888	W1 46 8.4124	6.65	-214.62	
2525.00	23.97	133.00	2458.11	2303.11	281.79	-89.57	6463837.100	572140.140	N58 18 29.7216	W1 46 8.2787	5.67	-205.00	
2550.00	25.29	133.80	2480.83	2325.83	274.63	-82.00	6463834.920	572142.450	N58 18 29.6497	W1 46 8.1395	5.45	-194.89	
2575.00	26.70	134.30	2503.30	2348.30	267.01	-74.12	6463832.600	572144.840	N58 18 29.5732	W1 46 7.9948	5.71	-184.28	
2600.00	28.26	134.80	2525.48	2370.48	258.92	-65.90	6463830.130	572147.350	N58 18 29.4920	W1 46 7.8438	6.31	-173.14	
2625.00	29.99	135.40	2547.32	2392.32	250.29	-57.32	6463827.500	572149.970	N58 18 29.4056	W1 46 7.6860	7.02	-161.42	
2650.00	31.87	135.60	2568.76	2413.76	241.13	-48.31	6463824.710	572152.710	N58 18 29.3137	W1 46 7.5206	7.53	-149.07	
2675.00	33.73	135.80	2589.78	2434.78	231.44	-38.85	6463821.760	572155.590	N58 18 29.2165	W1 46 7.3470	7.45	-136.06	
2700.00	35.64	135.80	2610.34	2455.33	221.24	-28.94	6463818.650	572158.610	N58 18 29.1143	W1 46 7.1649	7.64	-122.41	
2725.00	37.55	135.90	2630.41	2475.41	210.54	-18.56	6463815.390	572161.780	N58 18 29.0071	W1 46 6.9743	7.64	-108.10	
2750.00	39.54	136.00	2649.96	2494.96	199.35	-7.72	6463811.980	572165.080	N58 18 28.8949	W1 46 6.7754	7.96	-93.16	
2775.00	41.60	136.00	2668.95	2513.95	187.65	3.57	6463808.420	572168.520	N58 18 28.7776	W1 46 6.5681	8.24	-77.57	
2800.00	43.59	135.70	2687.35	2532.35	175.51	15.36	6463804.720	572172.110	N58 18 28.6560	W1 46 6.3517	8.00	-61.33	
2825.00	45.80	135.20	2705.12	2550.12	162.99	27.69	6463800.900	572175.870	N58 18 28.5303	W1 46 6.1251	8.95	-44.43	
2850.00	48.18	134.50	2722.17	2567.17	150.10	40.65	6463796.970	572179.820	N58 18 28.4010	W1 46 5.8870	9.74	-26.80	
2875.00	50.76	133.90	2738.42	2583.42	136.85	54.27	6463792.940	572183.970	N58 18 28.2681	W1 46 5.6366	10.48	-8.42	

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			
2900.00	53.09	133.80	2753.83	2598.83	123.22	68.47	6463788.780	572188.290	N58 18 28.1313	W1 46 5.3757	9.33	10.65	
2925.00	55.22	133.80	2768.47	2613.47	109.19	83.09	6463784.510	572192.750	N58 18 27.9905	W1 46 5.1068	8.52	30.29	
2950.00	56.77	133.80	2782.45	2627.45	94.85	98.05	6463780.140	572197.310	N58 18 27.8466	W1 46 4.8318	6.20	50.37	
2975.00	57.35	133.60	2796.05	2641.05	80.35	113.22	6463775.720	572201.930	N58 18 27.7010	W1 46 4.5530	2.42	70.72	
3000.00	57.54	133.50	2809.50	2654.50	65.83	128.49	6463771.300	572206.580	N58 18 27.5553	W1 46 4.2721	0.83	91.16	
3025.00	57.62	133.30	2822.90	2667.90	51.34	143.82	6463766.880	572211.250	N58 18 27.4097	W1 46 3.9902	0.75	111.65	
3050.00	57.67	133.10	2836.28	2681.28	36.88	159.22	6463762.480	572215.940	N58 18 27.2646	W1 46 3.7070	0.70	132.17	
3075.00	57.79	133.20	2849.63	2694.63	22.42	174.64	6463758.070	572220.640	N58 18 27.1194	W1 46 3.4234	0.59	152.71	
3100.00	58.05	133.10	2862.91	2707.91	7.93	190.09	6463753.660	572225.350	N58 18 26.9739	W1 46 3.1392	1.09	173.30	
3125.00	58.79	132.70	2876.00	2721.00	-6.56	205.69	6463749.240	572230.100	N58 18 26.8283	W1 46 2.8522	3.26	194.02	
3150.00	60.00	132.20	2888.73	2733.73	-21.09	221.57	6463744.820	572234.940	N58 18 26.6824	W1 46 2.5601	5.14	214.99	
3175.00	61.58	131.70	2900.93	2745.93	-35.67	237.80	6463740.370	572239.890	N58 18 26.5358	W1 46 2.2614	6.56	236.30	
3184.00	62.19	131.40	2905.17	2750.17	-40.94	243.74	6463738.770	572241.700	N58 18 26.4829	W1 46 2.1520	7.39	244.06	
3255.00	67.82	130.70	2935.16	2780.16	-83.17	292.26	6463725.900	572256.480	N58 18 26.0581	W1 46 1.2586	7.98	307.09	
3313.00	72.86	129.60	2954.67	2799.66	-118.37	334.00	6463715.170	572269.200	N58 18 25.7039	W1 46 0.4896	8.87	360.76	
3431.00	78.90	126.90	2983.44	2828.44	-189.15	423.83	6463693.610	572296.570	N58 18 24.9906	W1 45 58.8328	5.58	473.81	
3526.00	83.81	124.70	2997.72	2842.72	-244.06	499.99	6463676.880	572319.780	N58 18 24.4360	W1 45 57.4266	5.65	567.13	
3618.00	85.19	123.90	3006.54	2851.54	-295.66	575.64	6463661.150	572342.830	N58 18 23.9141	W1 45 56.0287	1.73	658.39	
3714.00	85.85	123.30	3014.04	2859.04	-348.63	655.35	6463645.010	572367.110	N58 18 23.3781	W1 45 54.5552	0.93	753.85	
3807.00	87.37	122.10	3019.54	2864.54	-398.78	733.47	6463629.730	572390.920	N58 18 22.8700	W1 45 53.1106	2.08	846.54	
3900.00	88.66	121.00	3022.76	2867.76	-447.41	812.68	6463614.920	572415.050	N58 18 22.3767	W1 45 51.6453	1.82	939.42	
3995.00	89.05	119.70	3024.66	2869.66	-495.40	894.64	6463600.290	572440.020	N58 18 21.8892	W1 45 50.1281	1.43	1034.39	
4090.00	88.37	120.30	3026.79	2871.79	-542.88	976.89	6463585.820	572465.090	N58 18 21.4066	W1 45 48.6053	0.95	1129.37	
4184.00	89.86	120.50	3028.25	2873.25	-590.45	1057.95	6463571.330	572489.790	N58 18 20.9235	W1 45 47.1048	1.60	1223.34	
4276.00	89.66	119.90	3028.63	2873.63	-636.72	1137.47	6463557.230	572514.010	N58 18 20.4533	W1 45 45.6329	0.69	1315.33	
4369.00	88.71	120.00	3029.95	2874.95	-683.15	1218.04	6463543.090	572538.560	N58 18 19.9815	W1 45 44.1412	1.03	1408.32	
4460.00	88.00	120.20	3032.57	2877.57	-728.76	1296.73	6463529.190	572562.540	N58 18 19.5179	W1 45 42.6844	0.81	1499.28	
4550.00	88.89	120.10	3035.01	2880.01	-773.95	1374.53	6463515.420	572586.250	N58 18 19.0588	W1 45 41.2442	1.00	1589.24	
4640.00	89.29	120.00	3036.44	2881.44	-819.01	1452.42	6463501.690	572609.980	N58 18 18.6008	W1 45 39.8022	0.46	1679.22	
4733.00	89.93	119.50	3037.07	2882.07	-865.16	1533.16	6463487.630	572634.580	N58 18 18.1317	W1 45 38.3074	0.87	1772.22	
4823.00	89.77	119.10	3037.31	2882.31	-909.21	1611.65	6463474.210	572658.500	N58 18 17.6836	W1 45 36.8540	0.48	1862.22	
4913.00	90.49	119.70	3037.10	2882.10	-953.39	1690.06	6463460.750	572682.390	N58 18 17.2343	W1 45 35.4021	1.04	1952.22	
4990.00	90.00	119.00	3036.77	2881.77	-991.13	1757.17	6463449.250	572702.840	N58 18 16.8504	W1 45 34.1593	1.11	2029.21	