



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 #13	Vertical Section Azimuth:	151.21 deg
Well Name:	13/22a-C21y	Vertical Section Origin:	20.02S, 14.87W
Wellbore Name:	13/22a-C21y (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C21y 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 26.7355, W1 46 6.9842	North Reference:	Grid
Slot Location Grid N/E Y/X:	6463745.1400 m, 572162.8990 m	Local Coordinates Referenced To:	Installation

							Grid Coordinates		Geographic Coordinates				
MD	Inc	Azi	TVD	TVD(SS)	N-S	E-W	Northing	Easting	Latitude	Longitude	DLS	VS	Comment
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(m)	(m)			(deg/100ft)	(ft)	
0.00	0.00	0.00	0.00	-155.00	-20.02	-14.87	6463745.140	572162.900	N58 18 26.7355	W1 46 6.9842	0.00	0.00	
500.50	0.00	0.00	500.50	345.50	-20.02	-14.87	6463745.140	572162.900	N58 18 26.7355	W1 46 6.9842	0.00	0.00	
525.00	0.02	271.13	525.00	370.00	-20.02	-14.88	6463745.140	572162.900	N58 18 26.7355	W1 46 6.9843	0.08	0.00	
550.00	0.06	242.01	550.00	395.00	-20.03	-14.89	6463745.140	572162.890	N58 18 26.7355	W1 46 6.9846	0.17	0.00	
575.00	0.16	174.97	575.00	420.00	-20.07	-14.90	6463745.130	572162.890	N58 18 26.7351	W1 46 6.9848	0.59	0.03	
600.00	0.17	183.90	600.00	445.00	-20.14	-14.90	6463745.100	572162.890	N58 18 26.7344	W1 46 6.9848	0.11	0.09	
625.00	0.29	190.02	625.00	470.00	-20.24	-14.91	6463745.070	572162.890	N58 18 26.7334	W1 46 6.9851	0.49	0.17	
658.00	0.80	148.78	658.00	503.00	-20.52	-14.81	6463744.990	572162.920	N58 18 26.7306	W1 46 6.9832	1.86	0.47	
688.00	0.80	154.77	688.00	533.00	-20.89	-14.61	6463744.880	572162.980	N58 18 26.7269	W1 46 6.9796	0.28	0.88	
721.00	1.51	164.68	720.99	565.99	-21.51	-14.40	6463744.680	572163.040	N58 18 26.7207	W1 46 6.9759	2.23	1.54	
752.00	2.07	157.50	751.97	596.97	-22.43	-14.07	6463744.410	572163.140	N58 18 26.7117	W1 46 6.9701	1.94	2.49	
813.00	3.93	166.12	812.89	657.89	-25.47	-13.15	6463743.480	572163.420	N58 18 26.6815	W1 46 6.9539	3.13	5.61	
844.00	4.73	163.05	843.80	688.80	-27.73	-12.52	6463742.790	572163.610	N58 18 26.6592	W1 46 6.9429	2.69	7.88	
876.00	5.36	158.98	875.67	720.67	-30.38	-11.60	6463741.980	572163.890	N58 18 26.6329	W1 46 6.9266	2.26	10.66	
938.00	5.97	156.19	937.37	782.37	-36.04	-9.26	6463740.260	572164.610	N58 18 26.5768	W1 46 6.8848	1.08	16.74	
968.00	6.28	153.19	967.20	812.20	-38.93	-7.89	6463739.380	572165.030	N58 18 26.5480	W1 46 6.8601	1.49	19.93	
1001.00	6.77	148.62	999.99	844.99	-42.20	-6.07	6463738.380	572165.580	N58 18 26.5155	W1 46 6.8270	2.16	23.68	
1030.00	6.64	149.26	1028.79	873.79	-45.10	-4.32	6463737.500	572166.110	N58 18 26.4866	W1 46 6.7953	0.52	27.06	
1130.00	8.50	148.45	1127.91	972.91	-56.37	2.50	6463734.060	572168.190	N58 18 26.3744	W1 46 6.6715	1.86	40.22	
1222.00	12.20	153.15	1218.40	1063.40	-70.84	10.46	6463729.660	572170.620	N58 18 26.2304	W1 46 6.5277	4.12	56.74	
1317.00	15.10	153.75	1310.71	1155.71	-90.90	20.46	6463723.540	572173.670	N58 18 26.0310	W1 46 6.3473	3.06	79.13	
1440.00	16.50	149.90	1429.06	1274.06	-120.38	36.31	6463714.560	572178.490	N58 18 25.7378	W1 46 6.0608	1.42	112.60	
1530.00	16.57	152.20	1515.34	1360.34	-142.79	48.71	6463707.730	572182.270	N58 18 25.5149	W1 46 5.8365	0.73	138.21	
1622.00	17.91	154.20	1603.21	1448.21	-167.13	60.98	6463700.320	572186.010	N58 18 25.2729	W1 46 5.6152	1.59	165.46	
1714.00	20.43	153.50	1690.10	1535.10	-194.24	74.31	6463692.050	572190.070	N58 18 25.0035	W1 46 5.3751	2.75	195.63	
1754.00	20.88	154.40	1727.53	1572.53	-206.92	80.50	6463688.190	572191.960	N58 18 24.8775	W1 46 5.2635	1.38	209.73	
1857.00	22.62	152.20	1823.19	1668.19	-241.00	97.67	6463677.810	572197.190	N58 18 24.5388	W1 46 4.9539	1.87	247.86	
1952.00	26.28	152.40	1909.66	1754.66	-275.81	115.94	6463667.200	572202.760	N58 18 24.1926	W1 46 4.6239	3.85	287.17	

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			
2044.00	30.09	153.00	1990.73	1835.73	-314.42	135.85	6463655.440	572208.820	N58 18 23.8087	W1 46 4.2645	4.15	330.60	
2138.00	34.43	153.20	2070.20	1915.20	-359.16	158.54	6463641.810	572215.740	N58 18 23.3640	W1 46 3.8553	4.62	380.73	
2233.00	38.26	153.90	2146.71	1991.71	-409.56	183.60	6463626.450	572223.370	N58 18 22.8630	W1 46 3.4036	4.06	436.98	
2328.00	42.26	153.40	2219.19	2064.19	-464.56	210.86	6463609.690	572231.680	N58 18 22.3164	W1 46 2.9125	4.22	498.30	
2422.00	46.06	152.90	2286.61	2131.61	-522.97	240.44	6463591.890	572240.690	N58 18 21.7358	W1 46 2.3790	4.06	563.74	
2516.00	49.56	151.60	2349.74	2194.74	-584.59	272.88	6463573.120	572250.580	N58 18 21.1231	W1 46 1.7930	3.86	633.36	
2610.00	52.96	150.80	2408.55	2253.55	-648.82	308.21	6463553.550	572261.340	N58 18 20.4840	W1 46 1.1540	3.68	706.67	
2703.00	55.93	149.70	2462.63	2307.63	-714.49	345.76	6463533.540	572272.780	N58 18 19.8304	W1 46 0.4739	3.34	782.31	
2796.00	60.27	151.00	2511.76	2356.76	-783.10	384.79	6463512.630	572284.670	N58 18 19.1476	W1 45 59.7671	4.82	861.23	
2893.00	60.68	150.80	2559.56	2404.56	-856.85	425.84	6463490.160	572297.180	N58 18 18.4138	W1 45 59.0243	0.46	945.64	
2984.00	60.15	150.70	2604.49	2449.49	-925.89	464.50	6463469.120	572308.960	N58 18 17.7268	W1 45 58.3244	0.59	1024.77	
3071.00	60.15	149.80	2647.79	2492.79	-991.41	501.95	6463449.160	572320.370	N58 18 17.0748	W1 45 57.6463	0.90	1100.21	
3161.00	60.10	151.00	2692.62	2537.62	-1059.26	540.49	6463428.490	572332.120	N58 18 16.3995	W1 45 56.9483	1.16	1178.24	
3255.00	63.47	151.70	2737.06	2582.06	-1131.94	580.19	6463406.340	572344.210	N58 18 15.6765	W1 45 56.2304	3.64	1261.06	
3349.00	66.46	150.10	2776.84	2621.83	-1206.34	621.62	6463383.670	572356.840	N58 18 14.9362	W1 45 55.4808	3.53	1346.22	
3442.00	69.74	150.40	2811.52	2656.52	-1281.25	664.43	6463360.850	572369.880	N58 18 14.1907	W1 45 54.7055	3.54	1432.48	
3532.00	72.97	151.10	2840.29	2685.29	-1355.64	706.09	6463338.180	572382.570	N58 18 13.4504	W1 45 53.9515	3.66	1517.74	
3625.00	75.93	151.20	2865.22	2710.22	-1434.11	749.31	6463314.270	572395.740	N58 18 12.6698	W1 45 53.1697	3.18	1607.33	
3719.00	79.35	151.80	2885.34	2730.33	-1514.79	793.12	6463289.690	572409.090	N58 18 11.8672	W1 45 52.3778	3.69	1699.13	
3811.00	83.85	152.20	2898.77	2743.77	-1595.13	835.83	6463265.210	572422.110	N58 18 11.0682	W1 45 51.6061	4.91	1790.12	
3902.00	84.53	151.70	2907.98	2752.98	-1675.03	878.40	6463240.860	572435.080	N58 18 10.2735	W1 45 50.8370	0.93	1880.64	
3995.00	85.00	151.10	2916.47	2761.47	-1756.34	922.74	6463216.090	572448.590	N58 18 9.4647	W1 45 50.0355	0.82	1973.25	
4087.00	84.54	150.40	2924.86	2769.85	-1836.28	967.50	6463191.730	572462.230	N58 18 8.6693	W1 45 49.2254	0.91	2064.86	
4180.00	85.14	150.10	2933.22	2778.22	-1916.69	1013.46	6463167.230	572476.230	N58 18 7.8689	W1 45 48.3931	0.72	2157.47	
4269.00	85.40	150.40	2940.56	2785.56	-1993.70	1057.48	6463143.760	572489.640	N58 18 7.1025	W1 45 47.5961	0.45	2246.16	
4361.00	85.54	150.80	2947.82	2792.82	-2073.60	1102.50	6463119.420	572503.360	N58 18 6.3074	W1 45 46.7812	0.46	2337.86	
4454.00	85.33	150.50	2955.23	2800.23	-2154.41	1147.94	6463094.800	572517.200	N58 18 5.5033	W1 45 45.9588	0.39	2430.57	
4552.00	85.51	151.10	2963.05	2808.05	-2239.68	1195.59	6463068.820	572531.720	N58 18 4.6548	W1 45 45.0965	0.64	2528.25	
4637.00	85.08	151.40	2970.02	2815.02	-2313.95	1236.34	6463046.190	572544.140	N58 18 3.9159	W1 45 44.3597	0.62	2612.96	
4730.00	86.08	151.70	2977.19	2822.19	-2395.47	1280.51	6463021.350	572557.600	N58 18 3.1049	W1 45 43.5613	1.12	2705.68	
4851.00	89.60	153.30	2981.75	2826.75	-2502.71	1336.33	6462988.670	572574.610	N58 18 2.0386	W1 45 42.5538	3.20	2826.54	
4943.00	86.91	153.30	2984.55	2829.55	-2584.85	1377.65	6462963.640	572587.200	N58 18 1.2221	W1 45 41.8091	2.92	2918.43	
5038.00	88.83	153.00	2988.08	2833.08	-2669.55	1420.52	6462937.840	572600.260	N58 18 0.3801	W1 45 41.0361	2.05	3013.31	
5132.00	88.34	155.00	2990.40	2835.40	-2754.00	1461.71	6462912.100	572612.810	N58 17 59.5408	W1 45 40.2945	2.19	3107.16	
5225.00	91.26	154.70	2990.73	2835.73	-2838.18	1501.23	6462886.450	572624.850	N58 17 58.7046	W1 45 39.5842	3.16	3199.96	
5320.00	91.49	155.30	2988.45	2833.45	-2924.25	1541.37	6462860.230	572637.080	N58 17 57.8495	W1 45 38.8629	0.68	3294.73	
5412.00	93.75	154.90	2984.24	2829.24	-3007.61	1580.06	6462834.830	572648.870	N58 17 57.0215	W1 45 38.1677	2.49	3386.41	
5504.00	93.15	152.50	2978.71	2823.71	-3089.93	1620.75	6462809.750	572661.270	N58 17 56.2034	W1 45 37.4349	2.68	3478.15	
5601.00	92.92	153.80	2973.57	2818.57	-3176.34	1664.50	6462783.420	572674.600	N58 17 55.3442	W1 45 36.6462	1.36	3574.96	
5695.00	93.92	151.60	2967.96	2812.96	-3259.72	1707.53	6462758.010	572687.710	N58 17 54.5153	W1 45 35.8699	2.57	3668.75	
5790.00	93.46	149.50	2961.85	2806.85	-3342.27	1754.14	6462732.860	572701.910	N58 17 53.6938	W1 45 35.0264	2.26	3763.55	
5885.00	93.60	149.00	2956.00	2801.00	-3423.76	1802.62	6462708.030	572716.680	N58 17 52.8824	W1 45 34.1475	0.55	3858.31	
5979.00	92.75	148.20	2950.79	2795.79	-3503.87	1851.52	6462683.620	572731.580	N58 17 52.0845	W1 45 33.2603	1.24	3952.07	
6070.00	91.63	148.30	2947.32	2792.32	-3581.19	1899.37	6462660.060	572746.160	N58 17 51.3142	W1 45 32.3918	1.24	4042.88	

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			
6162.00	90.69	149.20	2945.45	2790.45	-3659.82	1947.08	6462636.100	572760.700	N58 17 50.5310	W1 45 31.5263	1.41	4134.77	
6257.00	90.14	150.80	2944.76	2789.76	-3742.09	1994.58	6462611.030	572775.170	N58 17 49.7121	W1 45 30.6661	1.78	4229.74	
6351.00	88.17	149.80	2946.15	2791.15	-3823.73	2041.15	6462586.160	572789.360	N58 17 48.8996	W1 45 29.8232	2.35	4323.72	
6443.00	87.31	149.44	2949.78	2794.78	-3903.03	2087.64	6462562.000	572803.530	N58 17 48.1100	W1 45 28.9808	1.01	4415.61	
6537.00	87.05	148.90	2954.40	2799.40	-3983.65	2135.75	6462537.430	572818.190	N58 17 47.3073	W1 45 28.1086	0.64	4509.43	
6630.00	85.34	148.30	2960.57	2805.57	-4062.86	2184.10	6462513.300	572832.920	N58 17 46.5184	W1 45 27.2315	1.95	4602.13	
6723.00	84.39	148.90	2968.90	2813.90	-4141.92	2232.36	6462489.210	572847.620	N58 17 45.7309	W1 45 26.3560	1.21	4694.66	
6816.00	83.50	148.50	2978.71	2823.71	-4220.94	2280.40	6462465.130	572862.260	N58 17 44.9439	W1 45 25.4846	1.05	4787.05	
6907.00	83.93	148.10	2988.67	2833.67	-4297.89	2327.93	6462441.680	572876.740	N58 17 44.1773	W1 45 24.6220	0.64	4877.38	
6996.00	83.29	149.50	2998.58	2843.58	-4373.55	2373.75	6462418.630	572890.710	N58 17 43.4238	W1 45 23.7911	1.72	4965.75	
7088.00	83.65	151.00	3009.04	2854.04	-4452.90	2419.10	6462394.450	572904.520	N58 17 42.6340	W1 45 22.9701	1.67	5057.14	
7182.00	84.59	152.10	3018.67	2863.67	-4535.11	2463.65	6462369.400	572918.100	N58 17 41.8162	W1 45 22.1652	1.53	5150.64	
7274.00	85.36	151.50	3026.73	2871.73	-4615.88	2506.95	6462344.790	572931.290	N58 17 41.0128	W1 45 21.3830	1.06	5242.28	
7367.00	87.17	151.20	3032.79	2877.79	-4697.31	2551.45	6462319.980	572944.850	N58 17 40.2026	W1 45 20.5789	1.97	5335.08	
7459.00	87.77	151.80	3036.85	2881.85	-4778.09	2595.30	6462295.370	572958.210	N58 17 39.3990	W1 45 19.7865	0.92	5426.99	
7550.00	89.09	151.60	3039.34	2884.34	-4858.18	2638.43	6462270.970	572971.350	N58 17 38.6024	W1 45 19.0075	1.47	5517.95	
7643.00	90.57	151.50	3039.62	2884.62	-4939.94	2682.73	6462246.050	572984.850	N58 17 37.7889	W1 45 18.2070	1.60	5610.94	
7735.00	90.09	150.70	3039.09	2884.09	-5020.48	2727.19	6462221.510	572998.400	N58 17 36.9876	W1 45 17.4032	1.01	5702.94	
7827.00	92.29	150.90	3037.18	2882.18	-5100.77	2772.06	6462197.050	573012.070	N58 17 36.1886	W1 45 16.5917	2.40	5794.91	
7920.00	90.26	149.90	3035.11	2880.11	-5181.61	2817.98	6462172.420	573026.060	N58 17 35.3841	W1 45 15.7607	2.43	5887.87	
8013.00	89.13	149.80	3035.60	2880.60	-5262.02	2864.69	6462147.910	573040.290	N58 17 34.5835	W1 45 14.9148	1.22	5980.84	
8104.00	88.11	148.30	3037.79	2882.79	-5340.04	2911.48	6462124.140	573054.550	N58 17 33.8066	W1 45 14.0667	1.99	6071.75	
8196.00	89.74	150.00	3039.52	2884.52	-5419.01	2958.64	6462100.080	573068.920	N58 17 33.0202	W1 45 13.2118	2.56	6163.67	
8288.00	91.31	151.30	3038.68	2883.68	-5499.19	3003.73	6462075.650	573082.660	N58 17 32.2223	W1 45 12.3962	2.22	6255.65	
8379.00	90.66	152.30	3037.11	2882.11	-5579.37	3046.73	6462051.220	573095.760	N58 17 31.4247	W1 45 11.6197	1.31	6346.63	
8471.00	88.94	152.60	3037.43	2882.43	-5660.94	3089.28	6462026.370	573108.720	N58 17 30.6135	W1 45 10.8521	1.90	6438.61	
8562.00	88.26	152.60	3039.66	2884.66	-5741.70	3131.14	6462001.760	573121.480	N58 17 29.8104	W1 45 10.0970	0.75	6529.55	
8655.00	87.22	151.55	3043.32	2888.32	-5823.81	3174.66	6461976.740	573134.740	N58 17 28.9938	W1 45 9.3115	1.59	6622.47	
8725.00	86.70	151.55	3047.04	2892.04	-5885.27	3207.96	6461958.010	573144.890	N58 17 28.3824	W1 45 8.7099	0.74	6692.37	