



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 #2	Vertical Section Azimuth:	60.29 deg
Well Name:	13/22a-C27	Vertical Section Origin:	3.17S, 14.44E
Wellbore Name:	13/22a-C27 (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C27 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 26.8962, W1 46 6.4300	North Reference:	Grid
Slot Location Grid N/E Y/X:	6463750.2740 m, 572171.8300 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	-3.17	14.44	6463750.270	572171.830	N58 18 26.8962	W1 46 6.4300	0.00	0.00		
500.50	0.00	0.00	500.50	345.50	-3.17	14.44	6463750.270	572171.830	N58 18 26.8962	W1 46 6.4300	0.00	0.00		
550.00	0.37	97.10	550.00	395.00	-3.19	14.60	6463750.270	572171.880	N58 18 26.8960	W1 46 6.4270	0.75	0.13		
600.00	0.33	45.01	600.00	445.00	-3.11	14.86	6463750.290	572171.960	N58 18 26.8967	W1 46 6.4221	0.62	0.40		
650.00	0.41	55.39	650.00	495.00	-2.90	15.11	6463750.350	572172.030	N58 18 26.8987	W1 46 6.4173	0.21	0.71		
700.00	0.55	81.27	700.00	545.00	-2.77	15.49	6463750.400	572172.150	N58 18 26.9000	W1 46 6.4101	0.51	1.12		
750.00	0.32	86.52	750.00	594.99	-2.72	15.87	6463750.410	572172.270	N58 18 26.9004	W1 46 6.4030	0.47	1.46		
800.00	0.36	72.70	799.99	644.99	-2.67	16.16	6463750.430	572172.350	N58 18 26.9008	W1 46 6.3976	0.18	1.74		
850.00	0.33	76.34	849.99	694.99	-2.59	16.45	6463750.450	572172.440	N58 18 26.9016	W1 46 6.3921	0.07	2.04		
900.00	0.30	61.50	899.99	744.99	-2.49	16.70	6463750.480	572172.520	N58 18 26.9025	W1 46 6.3873	0.17	2.30		
950.00	0.34	63.76	949.99	794.99	-2.36	16.95	6463750.520	572172.600	N58 18 26.9037	W1 46 6.3827	0.08	2.58		
1000.00	0.37	53.36	999.99	844.99	-2.20	17.22	6463750.570	572172.680	N58 18 26.9053	W1 46 6.3777	0.14	2.89		
1050.00	0.82	38.51	1049.99	894.99	-1.82	17.57	6463750.680	572172.780	N58 18 26.9089	W1 46 6.3710	0.94	3.38		
1100.00	1.79	37.48	1099.97	944.97	-0.92	18.27	6463750.960	572173.000	N58 18 26.9176	W1 46 6.3576	1.94	4.44		
1150.00	3.33	34.11	1149.92	994.92	0.90	19.56	6463751.510	572173.390	N58 18 26.9353	W1 46 6.3328	3.09	6.46		
1200.00	4.72	38.73	1199.80	1044.80	3.71	21.66	6463752.370	572174.030	N58 18 26.9626	W1 46 6.2926	2.85	9.68		
1250.00	6.84	32.81	1249.54	1094.54	7.81	24.56	6463753.620	572174.910	N58 18 27.0026	W1 46 6.2369	4.40	14.23		
1300.00	8.35	33.56	1299.10	1144.10	13.34	28.18	6463755.310	572176.020	N58 18 27.0564	W1 46 6.1672	3.03	20.12		
1350.00	10.31	33.47	1348.44	1193.44	20.10	32.65	6463757.360	572177.380	N58 18 27.1221	W1 46 6.0812	3.92	27.35		
1400.00	11.48	34.02	1397.54	1242.54	27.96	37.91	6463759.760	572178.980	N58 18 27.1985	W1 46 5.9802	2.35	35.81		
1450.00	11.90	35.82	1446.50	1291.50	36.26	43.71	6463762.290	572180.750	N58 18 27.2793	W1 46 5.8688	1.11	44.96		
1500.00	13.33	36.61	1495.29	1340.29	45.07	50.16	6463764.970	572182.710	N58 18 27.3649	W1 46 5.7450	2.88	54.93		
1550.00	14.89	35.80	1543.78	1388.78	54.91	57.36	6463767.970	572184.910	N58 18 27.4605	W1 46 5.6070	3.14	66.06		
1600.00	16.00	34.98	1591.97	1436.97	65.76	65.06	6463771.280	572187.260	N58 18 27.5660	W1 46 5.4590	2.26	78.13		
1641.00	16.69	34.95	1631.32	1476.32	75.22	71.68	6463774.160	572189.270	N58 18 27.6580	W1 46 5.3321	1.68	88.56		
1691.00	17.60	34.90	1679.09	1524.09	87.30	80.12	6463777.840	572191.840	N58 18 27.7755	W1 46 5.1700	1.82	101.88		
1748.00	17.70	35.00	1733.41	1578.41	101.47	90.02	6463782.160	572194.860	N58 18 27.9132	W1 46 4.9799	0.18	117.50		
1844.00	21.40	37.20	1823.86	1668.86	127.38	108.98	6463790.050	572200.640	N58 18 28.1650	W1 46 4.6161	3.93	146.82		

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			
1960.00	23.70	42.23	1931.00	1776.00	161.51	137.45	6463800.450	572209.310	N58 18 28.4960	W1 46 4.0716	2.59	188.46	
2052.00	26.33	43.87	2014.36	1859.36	189.91	164.03	6463809.110	572217.410	N58 18 28.7710	W1 46 3.5647	2.96	225.62	
2147.00	29.20	45.20	2098.41	1943.41	221.44	195.07	6463818.710	572226.870	N58 18 29.0759	W1 46 2.9728	3.09	268.21	
2240.00	33.67	47.17	2177.75	2022.75	254.97	230.10	6463828.930	572237.540	N58 18 29.3998	W1 46 2.3060	4.93	315.24	
2334.00	35.48	48.28	2255.14	2100.14	290.84	269.57	6463839.860	572249.570	N58 18 29.7460	W1 46 1.5550	2.04	367.31	
2428.00	39.19	48.70	2329.87	2174.87	328.61	312.26	6463851.370	572262.580	N58 18 30.1103	W1 46 0.7432	3.96	423.10	
2521.00	44.89	48.18	2398.91	2243.91	369.92	358.83	6463863.950	572276.760	N58 18 30.5088	W1 45 59.8575	6.14	484.03	
2616.00	49.57	48.01	2463.40	2308.40	416.49	410.72	6463878.140	572292.570	N58 18 30.9581	W1 45 58.8706	4.93	552.17	
2710.00	53.80	48.36	2521.67	2366.67	465.64	465.68	6463893.120	572309.320	N58 18 31.4323	W1 45 57.8253	4.51	624.27	
2803.00	57.43	51.22	2574.19	2419.19	515.14	524.30	6463908.200	572327.180	N58 18 31.9093	W1 45 56.7113	4.66	699.72	
2897.00	58.35	52.26	2624.15	2469.15	564.44	586.82	6463923.220	572346.230	N58 18 32.3836	W1 45 55.5244	1.36	778.45	
2991.00	58.12	52.37	2673.64	2518.64	613.30	650.06	6463938.110	572365.500	N58 18 32.8533	W1 45 54.3241	0.26	857.60	
3082.00	59.81	48.97	2720.56	2565.56	662.72	710.35	6463953.170	572383.870	N58 18 33.3292	W1 45 53.1790	3.70	934.45	
3178.00	65.11	46.37	2764.94	2609.94	720.05	773.22	6463970.640	572403.030	N58 18 33.8825	W1 45 51.9828	6.02	1017.47	
3273.00	71.07	45.08	2800.38	2645.38	781.56	836.28	6463989.380	572422.240	N58 18 34.4770	W1 45 50.7815	6.40	1102.73	
3368.00	74.94	47.42	2828.14	2673.14	844.36	901.90	6464008.510	572442.240	N58 18 35.0836	W1 45 49.5319	4.71	1190.84	
3462.00	77.91	49.60	2850.20	2695.21	904.87	970.34	6464026.950	572463.090	N58 18 35.6673	W1 45 48.2303	3.88	1280.28	
3554.00	81.77	52.51	2866.43	2711.43	961.77	1040.76	6464044.290	572484.550	N58 18 36.2149	W1 45 46.8929	5.22	1369.64	
3642.00	86.31	54.60	2875.57	2720.57	1013.74	1111.15	6464060.120	572505.990	N58 18 36.7140	W1 45 45.5578	5.67	1456.53	
3735.00	86.08	55.48	2881.74	2726.74	1066.91	1187.20	6464076.330	572529.170	N58 18 37.2240	W1 45 44.1163	0.98	1548.94	
3826.00	85.80	55.47	2888.18	2733.18	1118.36	1261.98	6464092.000	572551.950	N58 18 37.7171	W1 45 42.6990	0.31	1639.39	
3918.00	86.02	56.11	2894.75	2739.75	1169.95	1337.87	6464107.720	572575.080	N58 18 38.2115	W1 45 41.2611	0.73	1730.87	
4008.00	87.00	56.97	2900.22	2745.23	1219.48	1412.81	6464122.810	572597.910	N58 18 38.6858	W1 45 39.8415	1.45	1820.51	
4099.00	86.88	56.43	2905.08	2750.08	1269.37	1488.76	6464138.010	572621.050	N58 18 39.1634	W1 45 38.4029	0.61	1911.20	
4191.00	86.54	56.27	2910.36	2755.36	1320.26	1565.22	6464153.520	572644.350	N58 18 39.6508	W1 45 36.9545	0.41	2002.83	
4282.00	86.51	56.18	2915.88	2760.88	1370.76	1640.72	6464168.910	572667.350	N58 18 40.1345	W1 45 35.5241	0.10	2093.44	
4374.00	87.37	56.77	2920.79	2765.79	1421.50	1717.31	6464184.370	572690.690	N58 18 40.6203	W1 45 34.0733	1.13	2185.10	
4464.00	87.14	57.31	2925.10	2770.10	1470.41	1792.74	6464199.270	572713.670	N58 18 41.0883	W1 45 32.6449	0.65	2274.85	
4554.00	87.00	56.86	2929.70	2774.70	1519.25	1868.19	6464214.150	572736.660	N58 18 41.5557	W1 45 31.2159	0.52	2364.59	
4646.00	87.31	56.28	2934.27	2779.27	1569.87	1944.88	6464229.580	572760.030	N58 18 42.0403	W1 45 29.7633	0.71	2456.29	
4736.00	87.06	55.01	2938.69	2783.69	1620.60	2019.08	6464245.030	572782.640	N58 18 42.5265	W1 45 28.3569	1.44	2545.88	
4831.00	87.86	52.90	2942.90	2787.90	1676.44	2095.82	6464262.050	572806.020	N58 18 43.0625	W1 45 26.9016	2.37	2640.20	
4921.00	87.60	52.88	2946.46	2791.46	1730.70	2167.53	6464278.580	572827.870	N58 18 43.5839	W1 45 25.5407	0.29	2729.38	
5014.00	87.31	53.07	2950.59	2795.59	1786.64	2241.71	6464295.630	572850.470	N58 18 44.1214	W1 45 24.1331	0.37	2821.53	
5105.00	86.97	53.47	2955.13	2800.13	1841.00	2314.55	6464312.190	572872.670	N58 18 44.6435	W1 45 22.7511	0.58	2911.74	
5196.00	87.20	54.17	2959.76	2804.76	1894.65	2387.91	6464328.530	572895.020	N58 18 45.1586	W1 45 21.3596	0.81	3002.04	
5284.00	87.25	54.16	2964.02	2809.02	1946.11	2459.17	6464344.210	572916.730	N58 18 45.6525	W1 45 20.0082	0.06	3089.44	
5377.00	86.74	54.14	2968.90	2813.90	2000.50	2534.44	6464360.790	572939.670	N58 18 46.1745	W1 45 18.5805	0.55	3181.78	
5469.00	86.00	54.29	2974.72	2819.72	2054.19	2608.92	6464377.150	572962.360	N58 18 46.6897	W1 45 17.1680	0.82	3273.08	
5558.00	86.05	54.51	2980.89	2825.89	2105.87	2681.12	6464392.890	572984.360	N58 18 47.1856	W1 45 15.7990	0.25	3361.39	
5650.00	84.94	54.32	2988.12	2833.12	2159.24	2755.70	6464409.150	573007.090	N58 18 47.6977	W1 45 14.3845	1.22	3452.63	
5741.00	83.93	56.10	2996.94	2841.94	2210.92	2830.08	6464424.900	573029.750	N58 18 48.1931	W1 45 12.9746	2.24	3542.84	
5831.00	85.94	61.29	3004.89	2849.89	2257.47	2906.65	6464439.090	573053.080	N58 18 48.6377	W1 45 11.5254	6.16	3632.41	
5891.00	86.68	63.46	3008.75	2853.75	2285.23	2959.70	6464447.540	573069.240	N58 18 48.9014	W1 45 10.5230	3.81	3692.25	

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			
5922.00	86.71	64.20	3010.54	2855.54	2298.88	2987.47	6464451.700	573077.710	N58 18 49.0308	W1 45 9.9984	2.39	3723.14	
5991.00	86.86	64.71	3014.41	2859.41	2328.59	3049.63	6464460.760	573096.640	N58 18 49.3120	W1 45 8.8247	0.77	3791.84	
6019.00	87.03	65.50	3015.90	2860.90	2340.36	3074.99	6464464.340	573104.370	N58 18 49.4233	W1 45 8.3460	2.88	3819.71	
6114.00	89.06	66.65	3019.14	2864.14	2378.86	3161.77	6464476.070	573130.810	N58 18 49.7867	W1 45 6.7084	2.46	3914.16	
6203.54	87.86	66.28	3021.55	2866.55	2414.60	3243.83	6464486.960	573155.820	N58 18 50.1237	W1 45 5.1602	1.40	4003.15	
6298.00	90.66	67.05	3022.77	2867.77	2452.01	3330.55	6464498.360	573182.240	N58 18 50.4763	W1 45 3.5242	3.07	4097.00	
6388.00	90.00	67.68	3022.25	2867.25	2486.65	3413.61	6464508.910	573207.550	N58 18 50.8023	W1 45 1.9575	1.01	4186.32	
6480.00	89.63	68.15	3022.55	2867.55	2521.24	3498.86	6464519.450	573233.530	N58 18 51.1274	W1 45 0.3499	0.65	4277.50	
6579.00	90.94	67.99	3022.06	2867.06	2558.21	3590.70	6464530.720	573261.510	N58 18 51.4747	W1 44 58.6183	1.33	4375.59	
6676.00	89.29	70.31	3021.86	2866.86	2592.73	3681.34	6464541.240	573289.120	N58 18 51.7982	W1 44 56.9099	2.93	4471.42	
6774.00	89.89	71.18	3022.56	2867.56	2625.05	3773.85	6464551.080	573317.310	N58 18 52.0995	W1 44 55.1671	1.08	4567.79	
6857.00	90.37	70.76	3022.38	2867.38	2652.11	3852.31	6464559.330	573341.220	N58 18 52.3517	W1 44 53.6891	0.77	4649.35	
6951.00	88.63	71.44	3023.20	2868.20	2682.55	3941.24	6464568.610	573368.320	N58 18 52.6353	W1 44 52.0142	1.99	4741.68	
7041.00	88.49	73.89	3025.46	2870.46	2709.36	4027.12	6464576.780	573394.480	N58 18 52.8836	W1 44 50.3975	2.73	4829.55	
7132.00	88.34	73.92	3027.97	2872.97	2734.58	4114.52	6464584.460	573421.110	N58 18 53.1159	W1 44 48.7529	0.17	4917.96	
7225.00	89.83	72.69	3029.46	2874.46	2761.29	4203.58	6464592.600	573448.250	N58 18 53.3627	W1 44 47.0766	2.08	5008.55	
7318.00	89.94	71.51	3029.65	2874.65	2789.87	4292.08	6464601.310	573475.220	N58 18 53.6280	W1 44 45.4103	1.27	5099.58	
7408.00	89.86	71.44	3029.80	2874.80	2818.47	4377.41	6464610.020	573501.220	N58 18 53.8940	W1 44 43.8031	0.12	5187.87	
7501.00	89.23	71.96	3030.54	2875.54	2847.67	4465.71	6464618.920	573528.120	N58 18 54.1653	W1 44 42.1404	0.88	5279.03	
7593.00	89.29	72.70	3031.73	2876.73	2875.59	4553.36	6464627.430	573554.830	N58 18 54.4243	W1 44 40.4901	0.81	5369.00	
7680.00	88.69	73.34	3033.26	2878.26	2900.99	4636.55	6464635.170	573580.180	N58 18 54.6592	W1 44 38.9241	1.01	5453.85	
7773.00	89.51	73.78	3034.72	2879.72	2927.31	4725.74	6464643.180	573607.350	N58 18 54.9020	W1 44 37.2457	1.00	5544.35	
7864.00	90.69	73.48	3034.57	2879.57	2952.96	4813.05	6464651.000	573633.950	N58 18 55.1385	W1 44 35.6026	1.34	5632.89	
7960.00	90.80	73.98	3033.32	2878.32	2979.85	4905.19	6464659.190	573662.030	N58 18 55.3865	W1 44 33.8685	0.53	5726.26	
8050.00	90.54	73.66	3032.26	2877.26	3004.93	4991.62	6464666.830	573688.370	N58 18 55.6176	W1 44 32.2420	0.46	5813.75	
8138.00	90.86	74.12	3031.19	2876.19	3029.34	5076.16	6464674.270	573714.120	N58 18 55.8425	W1 44 30.6512	0.64	5899.28	
8229.00	91.03	74.44	3029.69	2874.69	3054.00	5163.74	6464681.790	573740.810	N58 18 56.0692	W1 44 29.0033	0.40	5987.57	
8320.00	92.06	74.95	3027.24	2872.24	3078.01	5251.48	6464689.100	573767.540	N58 18 56.2895	W1 44 27.3527	1.26	6075.67	
8410.00	92.37	74.98	3023.76	2868.76	3101.34	5338.34	6464696.210	573794.010	N58 18 56.5033	W1 44 25.7188	0.35	6162.67	
8500.00	90.20	76.08	3021.74	2866.74	3123.82	5425.45	6464703.060	573820.550	N58 18 56.7086	W1 44 24.0804	2.70	6249.48	
8547.00	89.86	76.15	3021.71	2866.71	3135.10	5471.08	6464706.500	573834.450	N58 18 56.8113	W1 44 23.2225	0.74	6294.70	
8625.00	89.40	76.15	3022.22	2867.22	3153.77	5546.81	6464712.190	573857.530	N58 18 56.9813	W1 44 21.7985	0.59	6369.72	