

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 #21	Vertical Section Azimuth:	2.75 deg
Well Name:	13/22a-C26	Vertical Section Origin:	19.81S, 26.46W
Wellbore Name:	13/22a-C26 (AWB)	TVD Reference Datum:	RKB
Wellpath Name:	13/22a-C26 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 26.7397, W1 46 7.2010	North Reference:	Grid
Slot Location Grid N/E Y/X:	6463745.2040 m, 572159.3680 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	-19.81	-26.46	6463745.200	572159.370	N58 18 26.7397	W1 46 7.2010	0.00	0.00	
500.50	0.00	199.50	500.50	345.50	-19.81	-26.46	6463745.200	572159.370	N58 18 26.7397	W1 46 7.2010	0.00	0.00	
525.00	0.28	166.40	525.00	370.00	-19.87	-26.45	6463745.190	572159.370	N58 18 26.7391	W1 46 7.2008	1.14	-0.06	
550.00	0.46	167.20	550.00	395.00	-20.02	-26.41	6463745.140	572159.380	N58 18 26.7375	W1 46 7.2001	0.72	-0.21	
575.00	0.73	178.70	575.00	420.00	-20.28	-26.38	6463745.060	572159.390	N58 18 26.7350	W1 46 7.1997	1.18	-0.47	
600.00	1.10	193.00	600.00	444.99	-20.68	-26.43	6463744.940	572159.380	N58 18 26.7311	W1 46 7.2008	1.73	-0.86	
625.00	1.50	184.80	624.99	469.99	-21.23	-26.51	6463744.770	572159.350	N58 18 26.7256	W1 46 7.2025	1.76	-1.43	
650.00	2.02	196.80	649.98	494.98	-21.98	-26.67	6463744.540	572159.300	N58 18 26.7183	W1 46 7.2057	2.54	-2.18	
665.00	2.22	198.30	664.97	509.97	-22.51	-26.84	6463744.380	572159.250	N58 18 26.7131	W1 46 7.2090	1.38	-2.72	
699.00	2.72	212.50	698.93	543.93	-23.82	-27.48	6463743.980	572159.060	N58 18 26.7004	W1 46 7.2214	2.31	-4.05	
728.00	3.42	210.40	727.89	572.89	-25.14	-28.28	6463743.580	572158.810	N58 18 26.6875	W1 46 7.2370	2.44	-5.42	
758.00	4.42	210.40	757.82	602.82	-26.91	-29.32	6463743.040	572158.500	N58 18 26.6702	W1 46 7.2570	3.33	-7.23	
821.00	6.10	215.40	820.55	665.56	-31.74	-32.49	6463741.570	572157.530	N58 18 26.6233	W1 46 7.3179	2.76	-12.20	
852.00	7.17	212.60	851.35	696.35	-34.71	-34.49	6463740.660	572156.920	N58 18 26.5944	W1 46 7.3563	3.60	-15.27	
912.00	9.25	216.10	910.73	755.73	-41.76	-39.35	6463738.520	572155.440	N58 18 26.5258	W1 46 7.4497	3.56	-22.54	
942.00	10.47	214.40	940.29	785.29	-45.96	-42.31	6463737.240	572154.540	N58 18 26.4850	W1 46 7.5065	4.18	-26.88	
1005.00	13.05	212.70	1001.96	846.96	-56.67	-49.38	6463733.970	572152.380	N58 18 26.3808	W1 46 7.6426	4.13	-37.91	
1036.00	14.05	211.30	1032.10	877.10	-62.83	-53.23	6463732.100	572151.210	N58 18 26.3208	W1 46 7.7167	3.39	-44.25	
1098.00	16.41	209.90	1091.91	936.91	-76.85	-61.51	6463727.820	572148.690	N58 18 26.1841	W1 46 7.8764	3.85	-58.66	
1160.00	18.84	211.40	1151.00	996.00	-92.99	-71.09	6463722.910	572145.770	N58 18 26.0269	W1 46 8.0612	3.99	-75.24	
1192.00	20.12	210.70	1181.17	1026.17	-102.14	-76.59	6463720.120	572144.090	N58 18 25.9379	W1 46 8.1673	4.07	-84.63	
1253.00	22.45	214.30	1238.01	1083.00	-120.78	-88.51	6463714.440	572140.460	N58 18 25.7563	W1 46 8.3968	4.38	-103.83	
1280.00	22.65	214.30	1262.94	1107.94	-129.34	-94.35	6463711.830	572138.680	N58 18 25.6731	W1 46 8.5089	0.74	-112.65	
1304.00	22.70	215.70	1285.09	1130.09	-136.91	-99.66	6463709.520	572137.070	N58 18 25.5995	W1 46 8.6108	2.26	-120.48	
1397.00	21.84	216.30	1371.15	1216.15	-165.43	-120.37	6463700.830	572130.750	N58 18 25.3223	W1 46 9.0081	0.96	-149.95	
1486.00	19.82	217.00	1454.33	1299.33	-190.82	-139.25	6463693.100	572125.000	N58 18 25.0756	W1 46 9.3701	2.29	-176.22	
1578.00	17.44	216.90	1541.50	1386.50	-214.31	-156.92	6463685.940	572119.620	N58 18 24.8475	W1 46 9.7088	2.59	-200.53	
1669.00	14.43	218.30	1628.99	1473.99	-234.12	-172.14	6463679.910	572114.980	N58 18 24.6551	W1 46 10.0003	3.33	-221.04	

							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)	
1737.00	12.84	218.60	1695.07	1540.07	-246.67	-182.10	6463676.080	572111.940	N58 18 24.5333	W1 46 10.1911	2.34	-234.06	
1740.00	12.79	218.60	1698.00	1543.00	-247.19	-182.52	6463675.920	572111.820	N58 18 24.5282	W1 46 10.1991	1.67	-234.60	
1826.00	6.18	223.20	1782.78	1627.78	-258.02	-191.63	6463672.620	572109.040	N58 18 24.4232	W1 46 10.3734	7.73	-245.85	
1854.00	5.03	237.90	1810.65	1655.65	-259.77	-193.71	6463672.090	572108.410	N58 18 24.4064	W1 46 10.4127	6.54	-247.70	
1948.00	4.49	294.00	1904.37	1749.37	-260.46	-200.56	6463671.880	572106.320	N58 18 24.4008	W1 46 10.5413	4.79	-248.72	
2045.00	4.69	358.40	2001.12	1846.12	-254.95	-204.14	6463673.560	572105.230	N58 18 24.4557	W1 46 10.6064	5.04	-243.39	
2134.00	9.72	25.10	2089.41	1934.41	-244.50	-201.06	6463676.740	572106.170	N58 18 24.5581	W1 46 10.5450	6.65	-232.80	
2229.00	14.56	30.80	2182.26	2027.26	-226.97	-191.53	6463682.080	572109.070	N58 18 24.7290	W1 46 10.3609	5.24	-214.83	
2317.00	17.48	33.70	2266.83	2111.83	-206.47	-178.53	6463688.330	572113.030	N58 18 24.9286	W1 46 10.1106	3.44	-193.73	
2407.00	21.81	34.70	2351.57	2196.57	-181.47	-161.51	6463695.950	572118.220	N58 18 25.1718	W1 46 9.7834	4.83	-167.94	
2498.00	28.12	32.60	2434.03	2279.03	-149.47	-140.31	6463705.700	572124.680	N58 18 25.4831	W1 46 9.3758	7.00	-134.97	
2590.00	33.65	33.00	2512.95	2357.95	-109.80	-114.72	6463717.790	572132.470	N58 18 25.8693	W1 46 8.8835	6.01	-94.11	
2641.00	35.56	33.20	2554.93	2399.93	-85.53	-98.91	6463725.180	572137.290	N58 18 26.1054	W1 46 8.5792	3.75	-69.12	
2768.00	35.36	33.80	2658.38	2503.37	-24.09	-58.24	6463743.900	572149.680	N58 18 26.7032	W1 46 7.7973	0.32	-5.80	
2826.00	38.14	32.30	2704.84	2549.84	5.00	-39.33	6463752.760	572155.450	N58 18 26.9863	W1 46 7.4334	5.04	24.16	
2861.00	40.82	31.60	2731.86	2576.86	23.88	-27.56	6463758.520	572159.030	N58 18 27.1702	W1 46 7.2067	7.76	43.59	
2952.00	48.59	29.90	2796.49	2641.49	78.88	5.09	6463775.270	572168.980	N58 18 27.7060	W1 46 6.5769	8.64	100.09	
3043.00	55.93	27.90	2852.15	2697.15	141.86	39.78	6463794.470	572179.550	N58 18 28.3201	W1 46 5.9061	8.25	164.66	
3135.00	63.47	24.90	2898.54	2743.54	212.98	75.00	6463816.140	572190.280	N58 18 29.0142	W1 46 5.2228	8.66	237.39	
3226.00	68.66	20.00	2935.47	2780.47	289.82	106.67	6463839.550	572199.930	N58 18 29.7654	W1 46 4.6038	7.53	315.66	
3261.00	70.72	18.50	2947.61	2792.61	320.81	117.49	6463848.990	572203.230	N58 18 30.0686	W1 46 4.3907	7.13	347.13	
3266.00	71.01	18.30	2949.25	2794.25	325.29	118.98	6463850.360	572203.680	N58 18 30.1125	W1 46 4.3613	6.92	351.68	
3284.00	72.04	17.60	2954.96	2799.96	341.53	124.24	6463855.300	572205.290	N58 18 30.2715	W1 46 4.2573	6.81	368.15	
3293.00	72.56	17.30	2957.69	2802.69	349.71	126.81	6463857.800	572206.070	N58 18 30.3516	W1 46 4.2063	6.59	376.44	
3316.00	73.79	16.60	2964.35	2809.35	370.77	133.23	6463864.210	572208.020	N58 18 30.5579	W1 46 4.0790	6.09	397.79	
3388.00	75.64	15.40	2983.33	2828.33	437.53	152.37	6463884.550	572213.860	N58 18 31.2120	W1 46 3.6980	3.03	465.39	
3416.00	76.53	15.50	2990.07	2835.07	463.73	159.61	6463892.540	572216.060	N58 18 31.4687	W1 46 3.5535	3.20	491.90	
3451.00	77.34	15.20	2997.98	2842.98	496.60	168.63	6463902.550	572218.810	N58 18 31.7909	W1 46 3.3734	2.46	525.17	
3512.00	79.54	14.80	3010.20	2855.20	554.33	184.10	6463920.140	572223.520	N58 18 32.3566	W1 46 3.0642	3.66	583.57	
3547.00	81.48	14.60	3015.97	2860.97	587.72	192.86	6463930.320	572226.190	N58 18 32.6839	W1 46 2.8888	5.57	617.34	
3606.00	85.11	14.30	3022.86	2867.86	644.45	207.48	6463947.600	572230.650	N58 18 33.2400	W1 46 2.5958	6.17	674.71	
3642.00	87.08	13.90	3025.31	2870.31	679.28	216.23	6463958.220	572233.310	N58 18 33.5815	W1 46 2.4202	5.58	709.92	
3673.00	88.86	13.80	3026.41	2871.41	709.36	223.64	6463967.380	572235.570	N58 18 33.8765	W1 46 2.2711	5.75	740.32	
3701.00	90.43	13.70	3026.58	2871.58	736.56	230.30	6463975.670	572237.600	N58 18 34.1431	W1 46 2.1372	5.62	767.80	
3794.00	91.40	12.60	3025.10	2870.10	827.11	251.45	6464003.260	572244.050	N58 18 35.0311	W1 46 1.7103	1.58	859.26	
3887.00	91.54	10.00	3022.71	2867.71	918.26	269.67	6464031.030	572249.600	N58 18 35.9257	W1 46 1.3382	2.80	951.19	
3980.00	93.29	4.80	3018.79	2863.79	1010.37	281.63	6464059.100	572253.240	N58 18 36.8308	W1 46 1.0827	5.89	1043.76	
4074.00	93.18	0.50	3013.48	2858.48	1104.10	285.97	6464087.660	572254.560	N58 18 37.7531	W1 46 0.9694	4.57	1137.59	
4168.00	90.34	356.50	3010.59	2855.59	1197.99	283.51	6464116.270	572253.810	N58 18 38.6784	W1 46 0.9833	5.22	1231.26	
4262.00	86.85	352.90	3012.90	2857.90	1291.54	274.83	6464144.770	572251.170	N58 18 39.6012	W1 46 1.1136	5.33	1324.28	
4351.00	86.40	347.80	3018.14	2863.14	1379.09	259.95	6464171.450	572246.640	N58 18 40.4663	W1 46 1.3622	5.74	1411.02	
4442.00	88.83	343.50	3021.93	2866.93	1467.15	237.42	6464198.280	572239.770	N58 18 41.3377	W1 46 1.7536	5.42	1497.90	
4532.00	89.80	339.00	3023.01	2868.01	1552.35	208.50	6464224.240	572230.960	N58 18 42.1820	W1 46 2.2657	5.11	1581.61	
4624.00	89.71	334.40	3023.40	2868.40	1636.82	172.12	6464249.970	572219.870	N58 18 43.0206	W1 46 2.9176	5.00	1664.24	

							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)	
4712.00	91.63	338.40	3022.37	2867.37	1717.43	136.90	6464274.540	572209.140	N58 18 43.8209	W1 46 3.5491	5.04	1743.07	
4783.00	92.12	334.50	3020.05	2865.05	1782.47	108.55	6464294.350	572200.500	N58 18 44.4666	W1 46 4.0574	5.53	1806.68	
4880.00	90.00	331.00	3018.25	2863.25	1868.67	64.15	6464320.620	572186.980	N58 18 45.3237	W1 46 4.8588	4.22	1890.65	