

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

							Grid Cod	ordinates	Geographic				
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	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			6463762.500			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			990.37	64.88		6463771.010			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		1217.91	1062.91	82.09		6463776.250		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		1336.49	1181.49	115.85		6463786.540		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		6463793.900		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		-82.43	6463799.080			W1 46 8.1879		-137.30	
1500.00	24.27	326.50	1473.93	1318.93	165.57	-88.11	6463801.690		N58 18 28.5766	W1 46 8.2913	0.35	-146.47	
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							Grid Cod	ordinates	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)	
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		1364.47	182.82		6463806.950		N58 18 28.7486	W1 46 8.4975	0.33	-164.83	
1575.00	24.22	327.30		1387.25			6463809.580		N58 18 28.8348	W1 46 8.5993	1.07	-173.96	
1600.00	23.96	327.90		1410.07	200.09		6463812.210	572133.760		W1 46 8.6986	1.43	-182.96	
1625.00	23.54	328.40		1432.95			6463814.810		N58 18 29.0058	W1 46 8.7951	1.86	-191.80	
1650.00	22.99	328.90		1455.92			6463817.380		N58 18 29.0898	W1 46 8.8884	2.34	-200.43	
1675.00	22.30	329.40		1478.99			6463819.900		N58 18 29.1721	W1 46 8.9779	2.87	-208.80	
1700.00	21.45	329.80		1502.19			6463822.350		N58 18 29.2521	W1 46 9.0634	3.45	-216.86	
1725.00	20.57	330.20		1525.53			6463824.710		N58 18 29.3293	W1 46 9.1446	3.57	-224.58	
1750.00	19.86	330.40		1548.99		-139.38	6463827.000		N58 18 29.4040	W1 46 9.2222	2.85	-232.00	
1775.00	19.25	330.70		1572.55			6463829.220		N58 18 29.4765	W1 46 9.2967	2.47	-239.18	
1800.00	18.22	331.20		1596.22			6463831.360		N58 18 29.5463	W1 46 9.3672	4.17	-246.03	
1825.00	16.65	332.20		1620.08			6463833.370		N58 18 29.6119	W1 46 9.4315	6.39	-252.37	
1850.00	15.30	333.20		1644.11	275.64		6463835.230		N58 18 29.6727	W1 46 9.4885	5.51	-258.13	
1900.00	13.00	333.50		1692.59			6463838.560		N58 18 29.7813	W1 46 9.5874	4.60	-268.28	
1950.00	10.51	333.90		1741.54			6463841.340		N58 18 29.8720	W1 46 9.6688	4.98	-276.71	
2000.00	7.57	340.40		1790.91	302.89		6463843.530		N58 18 29.9435	W1 46 9.7245	6.22	-282.97	
2050.00	5.57	359.40		1840.59			6463845.220	572116.140		W1 46 9.7438	5.86	-286.68	
2100.00	5.41	29.60		1890.37	312.90		6463846.580		N58 18 30.0420	W1 46 9.7210	5.72	-287.89	
2150.00	5.89	53.60		1940.13			6463847.670		N58 18 30.0766	W1 46 9.6593	4.78	-286.84	
2200.00	6.86	73.50		1989.83			6463848.390		N58 18 30.0991	W1 46 9.5662	4.79	-283.72	
2250.00	8.43	89.70		2039.39			6463848.660		N58 18 30.1065	W1 46 9.4438	5.30	-278.47	
2300.00	10.91	106.30		2088.68			6463848.260		N58 18 30.0921	W1 46 9.2906	7.42	-270.68	
2350.00	13.68	114.20		2137.53			6463847.110		N58 18 30.0533	W1 46 9.1059	6.47	-260.18	
2400.00	16.20	119.60		2185.84			6463845.320	572129.980		W1 46 8.8935	5.75	-247.32	
2425.00	17.69	124.60		2209.76			6463844.140	572131.860		W1 46 8.7795	8.33	-240.05	
2450.00	19.34	128.60		2233.46			6463842.700	572133.790		W1 46 8.6621	8.33	-232.18	
2475.00	21.00	130.90		2256.93			6463841.020	572135.810		W1 46 8.5401	7.36	-223.69	
2500.00	22.58	132.30		2280.14			6463839.140	572137.930		W1 46 8.4124	6.65	-214.62	
2525.00	23.97	133.00		2303.11	281.79		6463837.100	572140.140		W1 46 8.2787	5.67	-205.00	
2550.00	25.29	133.80		2325.83	274.63		6463834.920	572142.450		W1 46 8.1395	5.45	-194.89	
2575.00	26.70	134.30		2348.30			6463832.600	572144.840		W1 46 7.9948	5.71	-184.28	
2600.00	28.26	134.80		2370.48			6463830.130		N58 18 29.4920	W1 46 7.8438	6.31	-173.14	
2625.00	29.99	135.40		2392.32			6463827.500		N58 18 29.4056	W1 46 7.6860	7.02	-161.42	
2650.00	31.87	135.60		2413.76		-48.31	6463824.710		N58 18 29.3137	W1 46 7.5206	7.53	-149.07	
2675.00	33.73	135.80		2434.78		-38.85	6463821.760		N58 18 29.2165	W1 46 7.3470	7.45	-136.06	
2700.00	35.64	135.80		2455.33			6463818.650		N58 18 29.1143	W1 46 7.1649	7.64	-122.41	
2725.00	37.55	135.90		2475.41	210.54		6463815.390		N58 18 29.0071	W1 46 6.9743	7.64	-108.10	
2750.00	39.54	136.00		2494.96			6463811.980		N58 18 28.8949	W1 46 6.7754	7.96	-93.16	
2775.00	41.60	136.00		2513.95			6463808.420	572168.520		W1 46 6.5681	8.24	-77.57	
2800.00	43.59	135.70		2532.35			6463804.720	572172.110		W1 46 6.3517	8.00	-61.33	
2825.00	45.80	135.20		2550.12			6463800.900	572175.870	N58 18 28.5303	W1 46 6.1251	8.95	-44.43	
2850.00	48.18	134.50		2567.17			6463796.970	572179.820	N58 18 28.4010	W1 46 5.8870	9.74	-26.80	
2875.00	50.76	133.90					6463792.940			W1 46 5.6366	10.48	-8.42	
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Mo								Grid Cod	Grid Coordinates (Geographic Coordinates			
2900.00	MD	Inc	Azi	TVD	TVD(SS)	N/-S	E/-W	Northing	Easting	Latitude	Longitude	DLS	VS	Comment
2955.00 55.22 133.80 2768.47 2613.47 109.19 83.09 6463784.510 572192.750 Ns 18 27.9905 W1 46 5.1068 8.52 30.29 2950.00 56.77 133.80 2782.45 2627.45 248.65 44.85 9	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(m)	(m)			(deg/100ft)	(ft)	
2950.00 56.77 133.80 2782.45 267.45 94.85 98.05 6463780.140 572197.310 NS8 18 27.8466 W1 46 4.8318 6.20 50.37 2975.00 57.35 133.60 2796.05 264.05 80.35 113.22 6463775.720 572205.580 NS8 18 27.7010 W1 46 4.5530 2.42 70.72 300.00 57.54 133.50 2809.50 2654.05 65.83 128.49 6463776.896 572211.250 NS8 18 27.5953 W1 46 4.2721 0.83 91.16 3055.00 57.67 133.10 2836.28 2681.28 36.88 128.6463766.880 572211.250 NS8 18 27.4997 W1 46 3.9902 0.75 111.65 3055.00 57.67 133.10 2836.28 2681.28 36.88 159.22 6463766.880 572211.250 NS8 18 27.4997 W1 46 3.9902 0.75 111.65 3055.00 57.79 133.20 2849.63 2694.63 22.42 174.64 6463758.070 572220.640 NS8 18 27.194 W1 46 3.4934 0.59 152.71 3100.00 58.05 133.10 2862.91 2707.91 7.93 190.09 6463753.660 572225.30 NS8 18 26.8939 W1 46 2.8522 3.26 194.02 3150.00 60.00 132.20 2888.73 2733.73 -21.09 221.57 6463744.820 572223.01 NS8 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 NS8 18 26.8283 W1 46 2.8522 3.26 194.02 3150.00 60.00 132.20 2888.73 2753.73 -22.09 221.57 6463744.820 572234.940 NS8 18 26.8283 W1 46 2.8520 3.26 194.02 3150.00 60.00 132.20 2888.73 2750.77 2750.17 40.94 243.74 6463738.770 572241.700 NS8 18 26.829 W1 46 2.5501 5.14 214.99 3150.00 60.00 67.82 130.70 2935.16 2780.16 -83.17 292.26 6463758.707 572241.700 NS8 18 26.829 W1 46 2.5501 5.14 214.99 313.00 72.86 129.60 2954.67 2798.66 118.37 334.00 6463715.170 572269.200 NS8 18 26.829 W1 46 2.5501 5.14 214.99 313.00 72.86 129.60 2954.67 2798.66 118.37 334.00 6463715.170 572269.200 NS8 18 26.809 W1 45 2.8520 7.39 244.06 3255.00 83.81 12.70 2905.72 244.06 48366.61 50 57234.830 NS8 18 24.4990 W1 45 2.8520 7.39 244.06 3255.00 83.81 12.30 3014.04 2859.44 193.15 423.83 6463693.610 572245.800 NS8 18 2.8700 W1 45 53.106 2.08 846.54 390.00 88.31 12.90 3006.54 2851.54 295.66 575.64 6463661.19.20 57244.800 NS8 18 2.3767 W1 45 51.6653 1.82 393.42 3995.00 88.95 191.70 302.67 2847.79 542.88 996.89 6463585.820 57244.002 NS8 18 2.8990 W1 45 53.6029 0.69 1315.33 4390.00 88.95 191.90 302.83 2	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	
975.00 57.35 133.60 2796.05 2641.05 80.35 113.22 6463775.720 57220.650 N 88 18 27.7010 W1 46 4.5530 2.42 70.72 3000.00 57.64 133.50 2892.90 2667.90 51.34 143.82 6463766.880 572211.250 N58 18 27.655 W1 46 4.2721 0.83 91.16 3025.00 57.67 133.10 2836.28 2681.28 36.88 159.22 6463762.480 57221.540 N58 18 27.696 W1 46 3.7070 0.70 132.17 3075.00 57.79 133.10 2862.91 2707.91 7.93 190.99 6463758.070 57220.640 N58 18 27.194 W1 46 3.4930 0.70 132.17 315.00 58.79 132.70 2876.00 2721.00 -6.56 20.569 6463749.240 57220.540 N58 18 27.194 W1 46 3.4930 0.59 173.30 1325.00 60.00 132.20 2888.73 2733.73 -21.09 221.57 6463749.240 57223.00 N58 18 26.6823 W1 46 2.5601 5.14 214.99 1315.00 60.00 132.20 2888.73 2733.73 -21.09 221.57 6463740.370 57223.90 N58 18 26.6823 W1 46 2.5601 5.14 214.99 1315.00 61.58 131.70 2900.93 2745.93 -35.67 237.80 6463740.370 572254.740 N58 18 26.6823 W1 46 2.5601 5.14 214.99 3315.00 62.19 131.40 2900.93 2745.93 -35.67 237.80 6463735.710 572243.940 N58 18 26.6828 W1 46 2.5601 5.14 214.99 3313.00 72.86 129.60 2955.47 2796.66 -118.37 34.00 6463735.170 572264.700 N58 18 26.6829 W1 46 2.1520 7.39 244.06 3255.00 67.82 130.70 2935.16 2780.16 -18.37 34.00 6463745.170 572269.200 N58 18 26.0828 W1 46 2.1520 7.39 244.06 3255.00 67.82 130.70 2935.16 2780.16 -118.37 34.00 646375.170 572269.200 N58 18 26.6829 W1 46 2.5601 5.14 214.99 3313.00 72.86 129.60 2954.47 2796.66 -118.37 34.00 646375.170 572269.200 N58 18 26.0828 W1 46 2.5601 5.14 214.99 3313.00 64.08 12.00 2954.00 12.00 2954.00 12.00	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	
3000.00 57.54 133.50 2809.50 2854.50 66.83 128.49 6463771.300 572206.580 N58 18 27.5553 W1 46 3.2721 0.83 91.16 3050.00 57.67 133.10 2836.28 2681.28 36.88 159.22 6463762.480 572215.540 N58 18 27.4697 W1 46 3.9902 0.75 111.65 3050.00 57.67 133.10 2849.63 2694.63 22.42 174.64 6463755.070 57220.640 N58 18 27.194 W1 46 3.4234 0.59 152.71 3100.00 58.05 133.10 2862.91 2707.91 7.93 190.09 6463753.660 19.30	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	
3025.00 57.62 133.30 2822.90 2667.90 51.34 143.82 6463766.880 572211.250 N58 18 27.4067 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 0.70 132.17 310.00 58.05 133.10 2862.91 2707.91 7.93 190.09 6463753.680 572225.540 N58 18 27.2646 W1 46 3.4234 0.59 152.71 11.00 150.00 58.79 132.70 2849.63 2594.69 2707.91 7.93 190.09 6463753.680 572225.550 N58 18 26.9739 W1 46 3.1392 1.09 173.30 125.00 68.79 132.70 2888.73 2733.73 -21.09 221.57 6463744.820 572230.100 N58 18 26.8283 W1 46 2.5601 5.14 214.99 175.00 61.58 131.70 2900.93 2745.93 -35.67 237.80 6463740.370 572239.990 N58 18 26.6824 W1 46 2.5601 5.14 214.99 175.00 61.58 131.70 2900.93 2745.93 -35.67 237.80 6463740.370 572239.990 N58 18 26.6824 W1 46 2.5601 5.14 214.99 175.00 61.58 131.70 2905.17 2750.17 -40.94 243.74 6463738.770 572241.700 N58 18 26.4828 W1 46 2.5601 5.14 214.99 175.00 61.58 131.70 290.93 124.90 243.74 6463738.770 572241.700 N58 18 26.4828 W1 46 2.1520 7.39 244.06 175.00	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	
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 572225.350 N58 18 26.9739 W1 46 3.4324 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 1.09 173.30 182.50 58.79 132.70 2876.00 2721.00 -6.56 205.69 6463749.240 57223.910.00 N58 18 26.8283 W1 46 2.8522 3.26 194.02 150.00 60.00 18.20 19.20 19.00 19.20 19.70 6463748.240 57223.940 N58 18 26.8283 W1 46 2.8522 3.26 194.02 19.00 1		57.54	133.50		2654.50	65.83			572206.580	N58 18 27.5553	W1 46 4.2721			
3075.00 57.79 133.20 2849.63 2694.63 22.42 174.64 6463768.070 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 272230.100 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 26.8283 W1 46 2.85621 51.4 214.99 3175.00 61.58 131.70 2900.93 2745.93 -35.67 237.80 6463740.370 572234.940 N58 18 26.8283 W1 46 2.2601 5.14 214.99 3175.00 62.19 131.40 2905.17 2750.17 -40.94 243.74 646378.770 572234.940 N58 18 26.8283 W1 46 2.2614 6.56 236.30 3184.00 62.19 131.40 2905.17 2750.17 -40.94 243.74 646378.5770 572241.70 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 26.5358 W1 46 2.1520 7.39 244.06 3313.00 72.86 129.60 2983.44 2828.44 -189.15 423.83 6463693.610 572296.570 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 6463768.80 57239.780 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 6463661.19 572342.830 N58 18 23.3781 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 3900.00 88.66 121.00 3022.76 2867.76 -447.41 812.68 646361.92 57245.000 N58 18 23.3781 W1 45 54.5552 0.93 753.85 3900.00 88.66 121.00 3022.67 2867.76 -447.41 812.68 646361.92 57245.000 N58 18 23.870 W1 45 51.6453 1.82 399.42 399.94 399.94 399.94 399.94 399.94 399.94 399.94 399.94 399.94 399.		57.62	133.30		2667.90	51.34				N58 18 27.4097		0.75		
3100.00 58.05 133.10 2862.91 2707.91 7.93 190.09 6463753.660 5722253.50 NS8 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 572234.940 NS8 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 NS8 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 646374.820 572234.940 NS8 18 26.6824 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 NS8 18 26.65358 W1 46 2.2614 6.56 236.30 3255.00 67.29 130.70 2935.16 2780.16 -83.17 292.26 6463725.900 572256.480 NS8 18 26.0581 W1 46 1.2520 7.39 244.06 3255.00 67.29 126.90 2954.67 2799.66 -118.37 334.00 6463715.170 572269.200 NS8 18 25.7039 W1 46 0.4886 8.87 360.76 3313.00 72.86 129.60 2954.67 2799.66 -118.37 334.00 6463715.170 572269.200 NS8 18 25.7039 W1 46 0.4886 8.87 360.76 3431.00 78.90 126.90 2954.67 2594.64 -189.15 423.83 6463693.610 572296.570 NS8 18 24.4360 W1 45 57.4266 5.65 567.13 3618.00 85.19 123.30 3006.54 2851.54 -295.66 575.64 6463661.150 572342.830 NS8 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 572342.830 NS8 18 23.3781 W1 45 54.5552 0.93 753.85 3807.00 87.37 122.10 3019.54 2864.54 -398.78 73.47 6463629.730 572349.909. NS8 18 22.3767 W1 45 51.6453 1.82 399.42 3995.00 89.05 119.70 3024.66 2869.66 -495.40 894.64 6463674.920 572415.050 NS8 18 22.3870 W1 45 50.1281 1.43 1034.39 4266.00 88.87 120.30 3026.59 2871.59 542.88 976.89 6463555.800 572460.90 NS8 18 20.9335 W1 45 47.1048 1.60 122.33 4260.00 88.87 120.30 3026.59 2871.59 542.88 976.89 6463555.200 572546.900 NS8 18 20.9335 W1 45 47.1048 1.60 122.37 14840.00 88.89 120.10 3035.01 2800.01 -773.95 1374.59 6463557.230 572546.900 NS8 18 19.9515 W1 45 54.16452 1.03 1498.32 4460.00 88.99 120.10 3036.44 2881.44 819.01 1452.42 6463501.600 572665.500 NS8 18 19.9515 W1 45 44.1412 1.03 1408.32 4460.00 88.99 119.50 3037.07 2882.01 -773.95 1374.59 6463557.230 572568.500 NS8 18 19.95	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		
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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 26.8328 W1 46 2.2614 6.56 236.30 3184.00 62.19 131.40 2905.17 2750.17 -40.94 243.74 6463738.770 572234.700 N58 18 26.828 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 33.4.00 6463715.170 572269.200 N58 18 26.0581 W1 46 1.2586 7.98 307.09 3431.00 78.90 126.90 2983.44 2828.44 1.89.15 423.83 6463693.610 572295.570 N58 18 24.906 W1 45 88.328 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 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 572440.020 N58 18 22.3767 W1 45 51.6453 1.82 939.42 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 89.86 129.00 3028.63 2873.63 -683.15 1218.04 6463543.090 572585.209 N58 18 29.9235 W1 45 50.1281 1.43 1034.39 4276.00 89.66 119.90 3028.63 2873.63 -683.15 1218.04 6463543.090 572585.250 N58 18 19.9815 W1 45 47.1048 1.60 1223.34 4260.00 88.00 120.20 3032.57 2877.57 -728.76 1296.73 6463529.190 572586.50 N58 18 19.9815 W1 45 44.1412 1.03 1408.32 4460.00 89.93 119.50 3037.07 2882.07 -865.16 1533.16 6463474.210 572685.500 N58 18 17.6334 W1 45 53.64021 1.04 1952.22 4733.00 89.93 119.50 3037.07 2882.07 -865.16 1533.16 6463474.210 572685.500 N58 18 17.6334 W1 45 53.64021 1.04 1952.22	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	
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 6480 6463725.900 572256.480 N58 18 26.6829 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 2993.44 2828.44 -189.15 423.83 6463693.610 572296.570 N58 18 24.9906 W1 45 58.83228 5.58 473.81 3526.00 83.81 124.70 2997.72 2842.72 -244.06 499.99 6463676.880 572319.780 N58 18 24.9906 W1 45 58.83228 5.58 473.81 3526.00 83.81 124.70 2997.72 2842.72 -244.06 499.99 6463676.880 572319.780 N58 18 24.9906 W1 45 58.63228 5.58 473.81 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 572340.200 N58 18 22.3767 W1 45 55.16453 1.82 939.42 3995.00 89.05 119.70 3022.76 2867.76 -447.41 814.68 6463614.920 572415.050 N58 18 22.3767 W1 45 55.16453 1.82 939.42 4246.00 89.66 121.00 3022.76 2873.25 590.45 1057.95 6463571.330 572346.090 N58 18 21.8892 W1 45 50.1281 1.43 1034.39 4090.00 88.71 120.03 3028.63 2873.63 -636.72 1137.47 6463557.230 572546.090 N58 18 20.9235 W1 45 50.1281 1.43 1034.39 4090.00 88.01 120.00 3029.55 2874.95 -683.15 1218.04 6463543.090 572562.540 N58 18 19.9515 W1 45 44.1412 1.03 1408.32 4460.00 89.66 119.90 3028.63 2873.65 -683.15 1218.04 6463557.230 572564.010 N58 18 19.9515 W1 45 44.1412 1.03 1408.32 4460.00 89.93 119.50 3035.01 2880.01 -773.95 1374.53 6463557.230 572564.500 N58 18 19.9588 W1 45 44.1412 1.03 1408.32 4460.00 89.93 119.50 3035.07 2882.07 -865.16 1533.16 6463467.630 572663.580 N58 18 19.9588 W1 45 44.1412 1.00 14982.22 44830.0 89.93 119.50 3037.07 2882.07 -865.16 1533.16 6463467														
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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 23.3781 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 22.3767 W1 45 51.6453 1.82 939.42 3995.00 88.66 121.00 3022.76 2867.76 -447.41 812.68 646361.4920 572415.050 N58 18 22.3767 W1 45 50.1281 1.43 1034.39 4090.00 88.37 120.30 3024.66 2869.66 -495.40 894.64 646360.290 572440.020 N58 18 22.3767 W1 45 50.1281 1.43 1034.39 4090.00 88.37 120.30 3026.79 2871.79 -542.88 976.89 6463571.330 57248.979 N58 18 20.4533 W1 45 50.1281 1.43 1034.39 4276.00 89.66 119.90 3028.63 2873.63 -636.72 1137.47 6463557.230 572514.010 N58 18 20.4533 W1 45 44.1612 1.03 1408.32 4426.00 88.00 120.20 3032.57 2877.57 -728.76 1296.73 6463551.30 572586.250 N58 18 19.9815 W1 45 44.1412 1.03 1408.32 4460.00 88.29 120.00 3036.44 2881.44 -819.01 1452.42 6463571.30 57268.500 N58 18 19.0588 W1 45 44.1412 1.03 1408.32 4460.00 89.29 120.00 3036.44 2881.44 -819.01 1452.42 6463571.50 57268.500 N58 18 19.0588 W1 45 38.3074 0.87 1772.22 4733.00 89.93 119.50 3037.07 2882.01 -753.39 1690.06 6463467.50 57268.500 N58 18 17.2343 W1 45 35.4021 0.46 1679.22 4733.00 89.94 119.70 3037.10 2882.11 -99.21 1611.65 6463474.210 57268.500 N58 18 17.2343 W1 45 35.4021 0.48 1952.22	3175.00	61.58	131.70						572239.890	N58 18 26.5358	W1 46 2.2614	6.56		
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 6463661.50 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 572342.830 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 3995.00 88.66 121.00 3022.76 2867.76 -447.41 812.68 6463661.4920 572440.020 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 6463601.290 572440.020 N58 18 22.3767 W1 45 50.1281 1.43 1034.39 4490.00 88.37 120.30 3028.67 2871.79 -542.88 976.89 6463585.820 572465.090 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 572545.090 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 572545.000 N58 18 20.4533 W1 45 45.6329 0.69 1315.33 4369.00 88.89 120.10 3035.01 2880.01 -773.95 1374.53 6463515.420 572562.540 N58 18 19.9815 W1 45 42.8844 0.81 1499.28 4550.00 88.89 120.10 3035.01 2880.01 -773.95 1374.53 6463515.420 572568.250 N58 18 19.0588 W1 45 41.2442 1.00 1589.24 4460.00 89.29 120.00 3036.44 2881.44 819.01 1452.42 6463501.690 57269.990 N58 18 18.000 W1 45 38.30074 0.87 1772.22 4823.00 89.77 119.10 3037.31 2882.31 -909.21 1611.65 646347.210 572685.500 N58 18 17.2343 W1 45 35.4021 1.04 1952.22		62.19								N58 18 26.4829	W1 46 2.1520	7.39		
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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 -447.41 812.66 6463614.920 572415.050 N58 18 22.8760 W1 45 51.6453 1.82 939.42 3995.00 89.05 119.70 3024.66 2869.66 -495.40 894.64 6463680.290 572440.020 N58 18 21.892 W1 45 50.1281 1.43 1034.39 4184.00 89.86 120.50 3028.25 2873.25 -590.45 1057.95 646357.230 5725489.790 N58 18 20.9235	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	
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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 38.3074 0.87 1772.22 4733.00 89.93 119.50 3037.07 2882.07 -865.16 1533.16 6463487.630 572682.390 N58 18 17.6836 W1 45 38.8074 0.87 1772.22 4823.00 89.77 119.10 3037.31 2882.31 -909.21 1611.65 6463474.210 572682.390 N58 18 17.2343 W1 45 35.4021 1.04 1952.22											W1 45 54.5552			
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