



Focus Directional Services

As Drilled Surveys

Comp: Paramount Resources Ltd.	Date: 11/10/2005	Time: 09:58:54	Page: 1
Field: Fort Liard	Co-ordinate(NE) Reference:	Site: Paramount etal Fort Liard K-29 A	
Site: Paramount etal Fort Liard K-29 A	Vertical (TVD) Reference:	SITE 420.0	
Well: K-29 A	Section (VS) Reference:	Well (0.00N,0.00E,323.78Azi)	
Wellpath: 5204-01 (Plan 5)	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: As Drilled (Oct 11 AM)	Start Date: 16/09/2005
Company: Focus Directional Services	Engineer: Focus Directional Services
Tool: MWD;	Tied-to: User Defined

Field: Fort Liard	
Map System: Canadian UTM Zones (NAD27/Clarke66)	Map Zone: UTM Zone 10, North 126W to 120W
Geo Datum: Clarke 1866	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

Site: Paramount etal Fort Liard K-29 A	
K-29 A	
Site Position: Northing: 6704591.45 m	Latitude: 60 28 41.040 N
From: Geographic Easting: 467870.02 m	Longitude: 123 35 4.100 W
Position Uncertainty: 0.00 m	North Reference: True
Ground Level: 414.00 m	Grid Convergence: -0.51 deg

Well: K-29 A	Slot Name:
Well Position: +N/-S 0.00 m	Northing: 6704591.45 m
+E/-W 0.00 m	Latitude: 60 28 41.040 N
Position Uncertainty: 0.00 m	Easting: 467870.02 m
	Longitude: 123 35 4.100 W

Wellpath: 5204-01 (Plan 5)	Drilled From: 5204-01
Current Datum: SITE	Tie-on Depth: 2367.24 m
Magnetic Data: 06/09/2005	Above System Datum: Mean Sea Level
Field Strength: 58638 nT	Declination: 23.77 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 78.48 deg
m	+N/-S
	+E/-W
	Direction
	deg
0.00	0.00
	0.00
	323.78

Plan Section Information										
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target

Survey										Comment
MD	Incl	Azim	TVD	Subsea	VS	N/S	E/W	DLS		
m	deg	deg	m	m	m	m	m	deg/30m		
1854.00	4.50	69.48	1847.33	1427.33	8.87	78.65	92.37	0.000		
1864.37	6.90	45.60	1857.65	1437.65	8.85	79.23	93.20	9.621		
1874.77	9.30	37.30	1867.95	1447.95	9.18	80.33	94.15	7.684		
1881.50	11.70	26.00	1874.56	1454.56	9.65	81.38	94.78	14.049		
1890.96	14.10	31.00	1883.78	1463.78	10.54	83.23	95.79	8.387		
1900.35	15.70	33.60	1892.86	1472.86	11.42	85.27	97.09	5.539		
1909.85	17.40	32.30	1901.96	1481.96	12.39	87.54	98.56	5.494		
1919.42	19.50	30.20	1911.04	1491.04	13.55	90.13	100.13	6.904		
1928.93	21.80	27.00	1919.94	1499.94	14.98	93.08	101.73	8.079		
1938.53	23.90	22.80	1928.79	1508.79	16.79	96.46	103.29	8.305		
1948.15	26.40	21.70	1937.49	1517.49	18.93	100.24	104.84	7.931		
1957.62	28.70	21.20	1945.89	1525.89	21.27	104.32	106.44	7.323		
1967.14	29.90	20.50	1954.19	1534.19	23.80	108.67	108.09	3.933		
1976.74	30.50	20.10	1962.49	1542.49	26.47	113.20	109.77	1.978		
1986.09	29.40	17.80	1970.59	1550.59	29.13	117.62	111.29	5.101		
1995.43	28.20	14.60	1978.78	1558.78	31.87	121.93	112.54	6.274		
2004.94	27.90	13.20	1987.17	1567.17	34.74	126.28	113.62	2.282		
2014.44	27.70	13.00	1995.57	1575.57	37.63	130.59	114.62	0.697		
2023.94	27.00	12.00	2004.01	1584.01	40.50	134.85	115.57	2.644		



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Field: Fort Liard	Co-ordinate(N/E) Reference:	Site: Paramount etal Fort Liard K-29 A	
Site: Paramount etal Fort Liard K-29 A	Vertical (TVD) Reference:	SITE 420.0	
Well: K-29 A	Section (VS) Reference:	Well (0.00N,0.00E,323.78Azi)	
Wellpath: 5204-01 (Plan 5)	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD m	Incl deg	Azim deg	TVD m	Subsea m	VS m	N/S m	E/W m	DLS deg/30m	Comment
2033.56	26.60	11.30	2012.60	1592.60	43.41	139.10	116.44	1.589	
2042.92	27.30	10.10	2020.94	1600.94	46.31	143.27	117.23	2.841	
2052.35	28.00	9.40	2029.29	1609.29	49.35	147.58	117.97	2.455	
2061.84	28.30	10.20	2037.66	1617.66	52.46	151.99	118.73	1.524	
2071.51	28.40	12.30	2046.17	1626.17	55.57	156.50	119.63	3.109	
2081.06	29.20	14.00	2054.54	1634.54	58.56	160.97	120.68	3.596	
2090.59	29.00	15.60	2062.87	1642.87	61.48	165.46	121.86	2.529	
2099.43	28.40	17.80	2070.62	1650.62	64.04	169.52	123.08	4.123	
2109.43	28.30	17.30	2079.42	1659.42	66.84	174.05	124.51	0.773	
2119.14	28.50	17.60	2087.96	1667.96	69.58	178.45	125.90	0.759	
2128.80	28.60	17.50	2096.45	1676.45	72.31	182.86	127.29	0.344	
2138.25	28.40	16.60	2104.75	1684.75	75.00	187.17	128.61	1.504	
2147.92	28.00	14.60	2113.28	1693.28	77.83	191.57	129.84	3.184	
2157.55	27.50	13.60	2121.80	1701.80	80.69	195.92	130.93	2.128	
2167.10	26.60	12.10	2130.30	1710.30	83.53	200.15	131.90	3.547	
2176.71	26.60	11.00	2138.90	1718.90	86.43	204.37	132.76	1.538	
2186.18	26.20	10.40	2147.38	1727.38	89.30	208.50	133.54	1.523	
2195.83	25.40	9.80	2156.07	1736.07	92.20	212.64	134.28	2.616	
2205.31	25.10	14.00	2164.64	1744.64	94.90	216.59	135.11	5.747	
2214.96	26.10	16.60	2173.34	1753.34	97.49	220.61	136.21	4.675	
2224.47	26.60	19.30	2181.87	1761.87	99.96	224.63	137.51	4.096	
2233.70	27.70	20.20	2190.08	1770.08	102.32	228.59	138.94	3.816	
2243.31	29.50	21.80	2198.52	1778.52	104.81	232.88	140.59	6.106	
2252.79	31.40	19.70	2206.69	1786.69	107.43	237.38	142.29	6.891	
2262.33	32.40	18.00	2214.79	1794.79	110.32	242.15	143.92	4.227	
2271.82	32.90	17.00	2222.78	1802.78	113.35	247.03	145.46	2.325	
2281.47	33.80	15.40	2230.84	1810.84	116.58	252.13	146.93	3.912	
2290.81	34.60	14.30	2238.57	1818.57	119.88	257.20	148.28	3.247	
2295.00	33.62	13.87	2242.03	1822.03	121.38	259.48	148.85	7.246	Sidetrack point
2300.20	32.40	13.30	2246.39	1826.39	123.21	262.23	149.52	7.246	
2309.78	31.00	9.00	2254.55	1834.55	126.61	267.17	150.49	8.322	
2319.35	29.90	7.50	2262.80	1842.80	130.07	271.97	151.19	4.191	
2328.90	28.60	7.20	2271.13	1851.13	133.45	276.59	151.79	4.110	
2338.32	27.40	3.40	2279.45	1859.45	136.76	281.00	152.20	6.846	
2346.73	27.20	359.50	2286.92	1866.92	139.81	284.85	152.30	6.419	
2356.12	27.80	355.20	2295.25	1875.25	143.42	289.18	152.09	6.625	
2365.70	28.80	352.20	2303.69	1883.69	147.36	293.69	151.59	5.444	
2375.27	28.30	347.90	2312.09	1892.09	151.46	298.19	150.81	6.629	
2384.82	28.30	345.10	2320.50	1900.50	155.63	302.59	149.75	4.170	
2394.24	28.60	343.60	2328.78	1908.78	159.84	306.92	148.54	2.468	
2403.83	28.90	342.70	2337.19	1917.19	164.19	311.33	147.20	1.648	
2413.35	28.20	341.10	2345.55	1925.55	168.51	315.65	145.79	3.267	
2422.89	27.90	340.60	2353.97	1933.97	172.80	319.89	144.32	1.199	
2432.50	28.30	341.80	2362.45	1942.45	177.12	324.18	142.86	2.162	
2442.02	29.30	341.80	2370.79	1950.79	181.48	328.53	141.43	3.151	
2451.41	30.40	340.70	2378.94	1958.94	185.94	332.96	139.92	3.926	
2461.05	31.50	338.80	2387.21	1967.21	190.70	337.61	138.21	4.578	
2470.50	33.30	336.50	2395.18	1975.18	195.62	342.29	136.28	6.924	
2480.26	35.60	336.20	2403.23	1983.23	201.01	347.35	134.06	7.089	
2489.72	37.70	336.40	2410.82	1990.82	206.52	352.52	131.79	6.670	
2499.08	38.90	334.00	2418.17	1998.17	212.21	357.78	129.36	6.125	
2508.50	40.10	333.20	2425.44	2005.44	218.11	363.15	126.70	4.151	



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Site:	Paramount etal Fort Liard K-29 A	Vertical (TVD) Reference:	SITE 420.0				
Well:	K-29 A	Section (VS) Reference:	Well (0.00N,0.00E,323.78Azi)				
Wellpath:	5204-01 (Plan 5)	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Survey

MD m	Incl deg	Azim deg	TVD m	Subsea m	VS m	N/S m	E/W m	DLS deg/30m	Comment
2517.90	41.80	333.10	2432.53	2012.53	224.19	368.65	123.91	5.430	
2527.39	43.90	333.40	2439.49	2019.49	230.55	374.41	121.01	6.670	
2536.72	46.40	332.40	2446.07	2026.07	237.08	380.30	117.99	8.355	
2546.31	48.10	331.30	2452.58	2032.58	244.06	386.50	114.67	5.888	
2550.00	48.90	331.30	2455.03	2035.03	246.80	388.93	113.34	6.504	
2566.00	52.46	328.59	2465.16	2045.16	259.10	399.63	107.14	7.749	Actual ICP
2569.72	53.30	328.00	2467.41	2047.41	262.06	402.16	105.58	7.749	
2579.26	57.60	326.90	2472.82	2052.82	269.90	408.78	101.35	13.819	
2589.03	61.20	325.10	2477.79	2057.79	278.30	415.75	96.65	12.034	
2598.57	62.20	326.10	2482.31	2062.31	286.69	422.68	91.91	4.190	
2608.11	63.00	324.20	2486.70	2066.70	295.16	429.63	87.07	5.871	
2617.74	66.00	322.30	2490.85	2070.85	303.85	436.59	81.86	10.764	
2627.05	69.00	321.60	2494.41	2074.41	312.44	443.36	76.56	9.889	
2636.80	70.20	320.40	2497.81	2077.81	321.57	450.46	70.81	5.061	
2646.03	73.10	318.50	2500.72	2080.72	330.31	457.12	65.12	11.099	
2655.53	77.40	318.50	2503.13	2083.13	339.45	464.00	59.03	13.579	
2665.12	78.40	318.80	2505.14	2085.14	348.79	471.04	52.84	3.260	
2674.73	77.80	316.90	2507.13	2087.13	358.14	478.01	46.53	6.099	
2684.19	77.20	312.80	2509.17	2089.17	367.27	484.52	39.98	12.836	
2693.39	77.50	309.20	2511.19	2091.19	376.02	490.41	33.21	11.496	
2702.74	77.60	306.90	2513.21	2093.21	384.81	496.04	26.02	7.213	
2712.23	76.90	304.10	2515.30	2095.30	393.59	501.41	18.48	8.912	
2721.71	75.80	301.50	2517.54	2097.54	402.19	506.40	10.74	8.720	
2731.16	74.10	300.70	2519.99	2099.99	410.61	511.11	2.93	5.928	
2740.76	73.90	300.20	2522.64	2102.64	419.09	515.79	-5.03	1.627	
2750.12	75.00	300.00	2525.15	2105.15	427.35	520.31	-12.83	3.579	
2759.62	75.20	300.20	2527.59	2107.59	435.75	524.92	-20.77	0.878	
2769.03	74.10	300.70	2530.08	2110.08	444.09	529.52	-28.60	3.829	
2778.55	73.90	300.60	2532.71	2112.71	452.50	534.18	-36.47	0.699	
2788.15	73.70	300.80	2535.38	2115.38	460.98	538.89	-44.40	0.867	
2797.77	73.30	300.70	2538.12	2118.12	469.47	543.60	-52.32	1.283	
2807.33	73.00	301.20	2540.89	2120.89	477.90	548.31	-60.17	1.772	
2817.02	72.50	301.10	2543.76	2123.76	486.45	553.10	-68.09	1.576	
2826.57	71.70	301.70	2546.70	2126.70	494.85	557.83	-75.85	3.087	
2836.08	72.20	301.70	2549.64	2129.64	503.23	562.58	-83.54	1.577	
2845.75	73.40	302.10	2552.50	2132.50	511.80	567.46	-91.38	3.907	
2855.27	73.30	302.70	2555.23	2135.23	520.29	572.35	-99.08	1.839	
2864.61	72.90	302.20	2557.94	2137.94	528.62	577.15	-106.62	2.003	
2874.14	72.50	302.60	2560.78	2140.78	537.09	582.02	-114.31	1.741	
2883.64	72.50	302.30	2563.64	2143.64	545.53	586.88	-121.95	0.904	
2893.26	73.40	303.00	2566.46	2146.46	554.11	591.84	-129.69	3.498	
2902.71	73.30	303.40	2569.16	2149.16	562.58	596.80	-137.27	1.257	
2912.19	72.60	303.30	2571.94	2151.94	571.08	601.78	-144.84	2.236	
2921.66	73.00	305.10	2574.74	2154.74	579.60	606.87	-152.32	5.593	
2931.04	75.20	306.40	2577.31	2157.31	588.18	612.14	-159.64	8.093	
2940.48	77.70	306.50	2579.53	2159.53	596.94	617.59	-167.02	7.951	
2950.04	79.80	309.50	2581.39	2161.39	605.96	623.36	-174.41	11.343	
2959.55	81.50	308.50	2582.94	2162.94	615.03	629.27	-181.70	6.201	
2969.14	81.40	308.70	2584.36	2164.36	624.18	635.19	-189.12	0.693	
2978.67	80.70	308.70	2585.84	2165.84	633.27	641.07	-196.46	2.204	
2988.02	79.50	308.70	2587.45	2167.45	642.17	646.83	-203.65	3.850	
2997.57	80.30	309.40	2589.13	2169.13	651.26	652.75	-210.95	3.317	
3007.14	81.40	309.80	2590.65	2170.65	660.42	658.78	-218.23	3.664	



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Site:	Paramount etal Fort Liard K-29 A	Vertical (TVD) Reference:	SITE 420.0				
Well:	K-29 A	Section (VS) Reference:	Well (0.00N,0.00E,323.78Azi)				
Wellpath:	5204-01 (Plan 5)	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey

MD m	Incl deg	Azim deg	TVD m	Subsea m	VS m	N/S m	E/W m	DLS deg/30m	Comment
3016.72	81.00	310.20	2592.11	2172.11	669.61	664.86	-225.48	1.761	
3026.12	81.90	309.60	2593.51	2173.51	678.64	670.82	-232.61	3.440	
3035.68	81.80	311.60	2594.87	2174.87	687.85	676.98	-239.80	6.221	
3045.21	83.40	311.40	2596.09	2176.09	697.09	683.24	-246.88	5.075	
3054.77	83.00	312.30	2597.23	2177.23	706.37	689.58	-253.95	3.072	
3064.69	82.60	310.10	2598.47	2178.47	715.98	696.06	-261.35	6.711	
3074.00	83.10	310.60	2599.63	2179.63	724.96	702.04	-268.39	2.270	
3083.80	83.40	310.40	2600.78	2180.78	734.44	708.36	-275.79	1.101	
3093.59	83.60	310.30	2601.89	2181.89	743.90	714.66	-283.21	0.684	
3103.37	84.10	309.00	2602.94	2182.94	753.33	720.86	-290.69	4.251	
3113.19	84.30	308.70	2603.93	2183.93	762.77	726.99	-298.30	1.098	
3122.95	84.40	308.20	2604.89	2184.89	772.13	733.03	-305.91	1.560	
3132.68	84.60	308.40	2605.82	2185.82	781.47	739.03	-313.51	0.870	
3142.45	84.80	307.80	2606.72	2186.72	790.83	745.04	-321.16	1.935	
3152.01	84.60	307.70	2607.61	2187.61	799.98	750.86	-328.69	0.701	
3161.56	83.90	308.30	2608.56	2188.56	809.13	756.71	-336.18	2.890	
3171.17	82.40	308.30	2609.71	2189.71	818.32	762.63	-343.67	4.683	
3180.88	82.00	308.20	2611.03	2191.03	827.59	768.58	-351.22	1.273	
3190.19	81.80	307.50	2612.34	2192.34	836.45	774.24	-358.50	2.324	
3199.74	81.90	307.50	2613.69	2193.69	845.53	779.99	-366.00	0.314	
3208.99	82.60	307.40	2614.94	2194.94	854.32	785.57	-373.28	2.293	
3218.10	83.00	307.20	2616.08	2196.08	862.99	791.04	-380.47	1.470	
3227.82	83.20	306.90	2617.25	2197.25	872.23	796.86	-388.17	1.107	
3237.36	82.40	306.70	2618.45	2198.45	881.28	802.53	-395.75	2.592	
3247.13	82.70	307.00	2619.71	2199.71	890.55	808.34	-403.50	1.297	
3256.67	83.00	306.60	2620.90	2200.90	899.60	814.01	-411.08	1.565	
3266.21	81.20	306.30	2622.21	2202.21	908.62	819.62	-418.68	5.737	
3275.84	81.00	305.20	2623.70	2203.70	917.67	825.18	-426.40	3.442	
3285.37	81.30	304.50	2625.17	2205.17	926.58	830.56	-434.13	2.373	
3295.12	81.50	305.70	2626.63	2206.63	935.71	836.10	-442.01	3.702	
3304.35	81.10	307.40	2628.02	2208.02	944.42	841.54	-449.34	5.614	
3313.85	81.30	306.70	2629.48	2209.48	953.42	847.19	-456.84	2.274	
3323.44	81.00	308.70	2630.95	2210.95	962.52	852.99	-464.33	6.253	
3333.05	81.00	308.20	2632.45	2212.45	971.67	858.89	-471.77	1.542	
3342.51	81.50	308.00	2633.89	2213.89	980.68	864.66	-479.12	1.705	
3351.71	81.10	308.40	2635.29	2215.29	989.44	870.28	-486.27	1.834	
3361.06	81.50	308.40	2636.70	2216.70	998.35	876.02	-493.51	1.283	
3370.55	81.00	307.60	2638.14	2218.14	1007.37	881.80	-500.90	2.957	
3380.03	80.20	308.40	2639.69	2219.69	1016.37	887.56	-508.27	3.556	
3389.98	80.60	307.80	2641.35	2221.35	1025.82	893.61	-515.99	2.153	
3398.84	80.70	307.70	2642.79	2222.79	1034.22	898.96	-522.91	0.476	
3408.44	81.00	307.10	2644.32	2224.32	1043.31	904.72	-530.44	2.075	
3417.94	81.00	306.70	2645.80	2225.80	1052.29	910.35	-537.94	1.248	
3427.35	81.00	307.40	2647.28	2227.28	1061.19	915.95	-545.36	2.204	
3436.87	80.30	307.70	2648.82	2228.82	1070.21	921.68	-552.81	2.395	
3451.35	80.40	306.30	2651.25	2231.25	1083.88	930.27	-564.21	2.867	
3460.95	80.70	308.00	2652.83	2232.83	1092.95	935.99	-571.75	5.324	
3470.57	80.70	308.50	2654.38	2234.38	1102.10	941.86	-579.21	1.539	
3480.13	80.60	308.10	2655.93	2235.93	1111.19	947.71	-586.61	1.278	
3489.82	81.00	308.10	2657.48	2237.48	1120.40	953.61	-594.14	1.238	
3499.37	79.50	309.20	2659.10	2239.10	1129.48	959.49	-601.49	5.814	
3508.88	79.40	309.00	2660.84	2240.84	1138.53	965.39	-608.74	0.696	



Focus Directional Services

As Drilled Surveys

Comp: Paramount Resources Ltd. **Date:** 11/10/2005 **Time:** 09:58:54 **Page:** 5
Field: Fort Liard **Co-ordinate(NE) Reference:** Site: Paramount etal Fort Liard K-29 A
Site: Paramount etal Fort Liard K-29 A **Vertical (TVD) Reference:** SITE 420.0
Well: K-29 A **Section (VS) Reference:** Well (0.00N,0.00E,323.78Azi)
Wellpath: 5204-01 (Plan 5) **Survey Calculation Method:** Minimum Curvature **Db:** Sybase

Survey

MD m	Incl deg	Azim deg	TVD m	Subsea m	VS m	N/S m	E/W m	DLS deg/30m	Comment
3518.55	79.20	309.20	2662.64	2242.64	1147.72	971.38	-616.12	0.870	
3528.07	78.90	309.00	2664.44	2244.44	1156.76	977.27	-623.37	1.130	
3537.41	78.80	308.70	2666.25	2246.25	1165.62	983.02	-630.51	0.998	
3546.94	79.00	308.40	2668.09	2248.09	1174.64	988.85	-637.82	1.120	
3561.94	79.20	308.40	2670.92	2250.92	1188.84	998.00	-649.37	0.400	Bit extrapolation

Targets

Name	Description Dip. Dir.	TVD	+N/-S	+E/-W	Map Northing	Map Easting	← Latitude → Deg Min Sec	← Longitude → Deg Min Sec

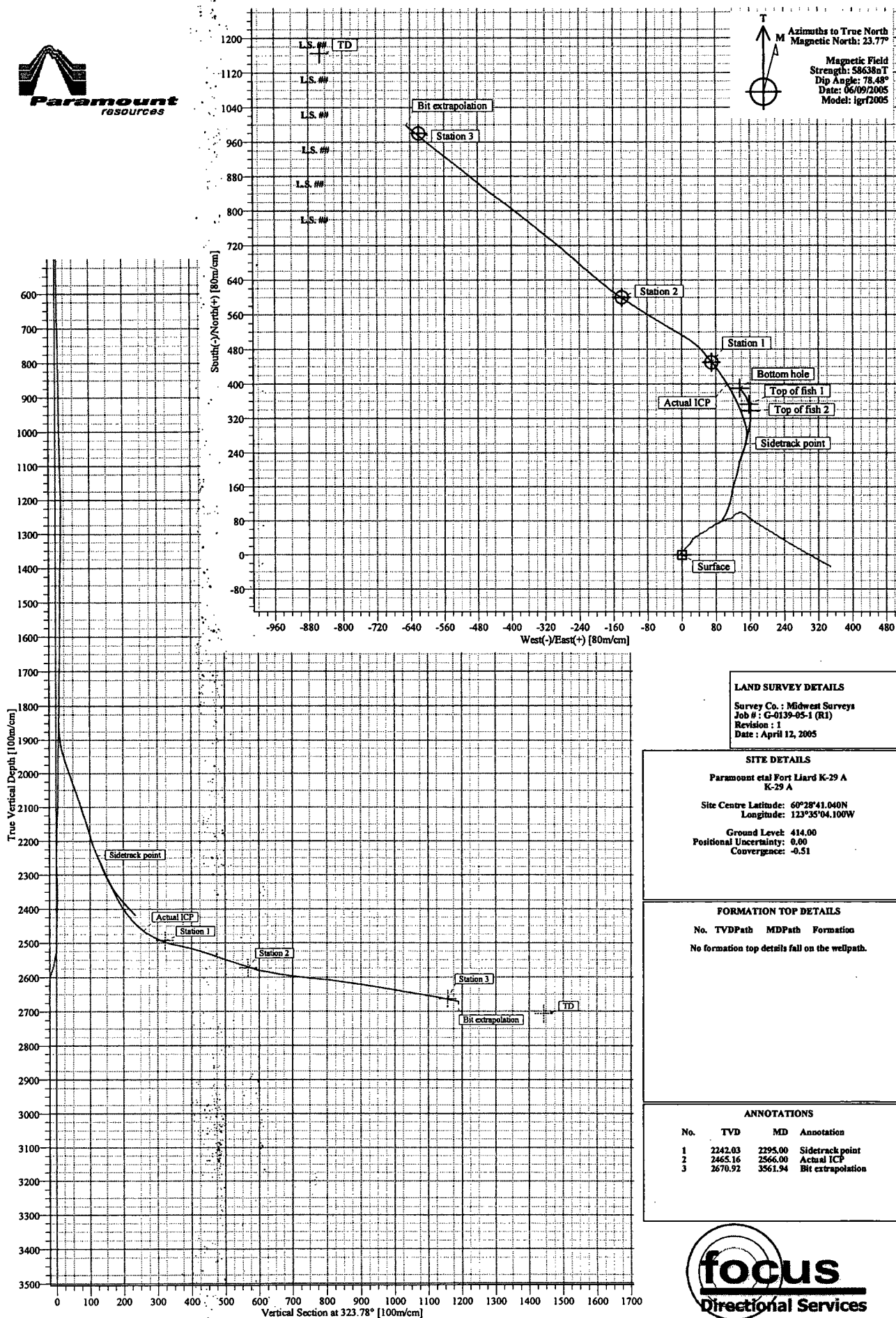
Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Annotation

MD m	TVD m	
2295.00	2242.03	Sidetrack point
2566.00	2465.16	Actual ICP
3561.94	2670.92	Bit extrapolation

Field: Fort Liard
Site: Paramount etal Fort Liard K-29 A
Well: K-29 A
Wellpath: 5204-01 (Plan 5)
Survey: As Drilled (Oct 11 AM)



LAND SURVEY DETAILS

Survey Co. : Midwest Surveys
Job # : G-0139-05-1 (R1)
Revision : 1
Date : April 12, 2005

SITE DETAILS

**Paramount et al Fort Liard K-29 A
K-29 A**

Site Centre Latitude: 60°28'41.040N
Longitude: 123°35'04.100W

Ground Level: 414.00
Positional Uncertainty: 0.00
Convergence: -0.51

FORMATION TOP DETAILS

No.	TVDPPath	MDPath	Formation
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No formation top details fall on the wellpath.

ANNOTATIONS

No.	TVD	MD	Annotation
1	2242.03	2295.00	Sidetrack point
2	2465.16	2566.00	Actual ICP
3	2670.92	3561.94	Bit extrapolation

