

N.E.B. COPY

Paramount Resources Ltd.

Well: Paramount et al Liard F36

Location: F36 60 10 123 15

A Gyrodata Directional Survey

for

PARAMOUNT RESOURCES LTD.

WELL: PARAMOUNT ET AL LIARD F36

Location: F36 60 10 123 15

Job Number: C0199GDM215

Run Date: 30-Jan-99 06:53:50

Surveyor: G.Lariviere

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 60.050000 deg. N

Azimuth Correction:

Rate-Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference

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MEASURED DEPTH meters	I N C L deg.	AZIMUTH deg.	VERTICAL DEPTH meters	CLOSURE DIST. meters	AZIMUTH deg.	H O R I Z O N T A L C O O R D I N A T E S meters	DOGLEG SEVERITY deg/30m
0.0	0.00	0.00	0.0	0.0	0.0	0.00 N 0.00 E	0.00
----- ALL MAESURED DEPTHS COORDINATES ARE REFERENCED TO AN R.K.B. OF 4.8 METERS. -----							
52.6	.47	241.00	52.5	.2	241.0	.11 S .19 W	.27
71.4	.42	253.53	71.3	.4	243.4	.16 S .33 W	.18
90.0	.42	258.54	90.0	.5	246.8	.20 S .46 W	.06
108.4	.41	254.45	108.4	.6	248.9	.23 S .59 W	.05
127.2	.32	255.02	127.2	.8	249.8	.26 S .70 W	.15
145.9	.18	261.51	145.9	.8	250.5	.28 S .78 W	.23
164.2	.09	297.16	164.2	.9	251.6	.28 S .83 W	.20
183.0	.12	292.45	183.0	.9	253.1	.26 S .86 W	.06
201.4	.29	161.31	201.4	.9	250.9	.30 S .86 W	.63
220.8	.28	160.05	220.8	.9	244.9	.39 S .83 W	.02
239.4	.29	158.46	239.4	.9	239.2	.47 S .80 W	.03
258.7	.30	157.94	258.7	.9	233.2	.57 S .76 W	.01
278.2	.25	155.09	278.1	1.0	227.8	.65 S .72 W	.08
297.4	.15	164.67	297.4	1.0	224.2	.72 S .70 W	.17
316.8	.09	212.55	316.8	1.0	222.8	.75 S .70 W	.17
336.1	.20	267.05	336.1	1.1	223.9	.77 S .74 W	.26
355.2	.21	265.45	355.2	1.1	226.3	.77 S .81 W	.01
374.4	.27	284.04	374.4	1.2	229.2	.77 S .89 W	.16
393.5	.23	273.08	393.5	1.2	232.2	.75 S .97 W	.10
412.8	.18	283.54	412.8	1.3	234.4	.74 S 1.04 W	.10
432.1	.21	312.98	432.1	1.3	236.9	.71 S 1.09 W	.16

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451.3	.23	333.60	451.3	1.3	240.0	.65 S 1.13 W	.13
470.0	.23	303.87	470.0	1.3	243.1	.60 S 1.18 W	.19
489.0	.29	314.35	489.0	1.4	246.4	.54 S 1.25 W	.11
508.2	.31	326.70	508.2	1.4	250.4	.47 S 1.31 W	.11
527.3	.27	323.02	527.3	1.4	254.2	.39 S 1.37 W	.08
546.6	.19	290.32	546.6	1.5	256.5	.34 S 1.42 W	.23
565.0	.38	285.58	565.0	1.5	258.3	.31 S 1.51 W	.32
584.4	.44	295.03	584.4	1.7	260.8	.26 S 1.64 W	.14
603.2	.51	290.34	603.2	1.8	263.5	.20 S 1.79 W	.13
622.3	.46	287.47	622.2	1.9	265.5	.15 S 1.94 W	.09
641.1	.53	287.75	641.1	2.1	267.2	.10 S 2.10 W	.12
660.5	.58	281.18	660.4	2.3	268.6	.06 S 2.28 W	.12
679.1	.50	280.46	679.0	2.4	269.5	.02 S 2.45 W	.13
698.2	.30	285.00	698.2	2.6	270.1	.01 N 2.58 W	.31
717.4	.37	281.91	717.4	2.7	270.7	.03 N 2.69 W	.10
736.6	.27	259.00	736.6	2.8	270.7	.04 N 2.79 W	.25
754.5	.23	269.92	754.4	2.9	270.5	.03 N 2.87 W	.11
773.8	.34	257.92	773.8	3.0	270.3	.02 N 2.96 W	.19
792.2	.52	231.57	792.2	3.1	269.1	.05 S 3.08 W	.44
811.6	.69	217.25	811.5	3.2	266.5	.20 S 3.22 W	.35
829.9	.57	205.54	829.9	3.3	263.7	.37 S 3.33 W	.28
849.2	.68	209.70	849.2	3.5	260.8	.55 S 3.43 W	.18
868.6	.60	190.86	868.6	3.6	257.9	.75 S 3.50 W	.35
887.4	.42	194.09	887.4	3.7	255.5	.92 S 3.54 W	.29
906.9	.45	201.58	906.9	3.7	253.6	1.06 S 3.58 W	.10

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926.1	.49	216.85	926.1	3.8	252.0	1.19 S 3.66 W	.20
944.5	.31	223.83	944.5	4.0	251.0	1.29 S 3.74 W	.31
963.7	.48	210.73	963.6	4.1	249.9	1.40 S 3.82 W	.30
982.1	.47	233.62	982.1	4.2	249.0	1.51 S 3.92 W	.30
1001.4	.46	235.14	1001.4	4.3	248.4	1.60 S 4.05 W	.02
1020.1	.32	207.04	1020.1	4.5	247.8	1.69 S 4.13 W	.38
1038.9	.43	262.25	1038.8	4.6	247.6	1.74 S 4.23 W	.58
1057.5	.40	237.89	1057.5	4.7	247.7	1.79 S 4.35 W	.29
1076.8	.39	218.85	1076.8	4.8	247.2	1.87 S 4.45 W	.20
1096.0	.40	180.71	1096.0	4.9	246.1	1.99 S 4.49 W	.40
1115.3	.52	184.83	1115.3	5.0	244.5	2.15 S 4.50 W	.20
1134.4	.52	172.07	1134.3	5.1	242.7	2.32 S 4.49 W	.18
1152.7	.57	170.59	1152.7	5.1	240.9	2.49 S 4.47 W	.09
1172.1	.61	165.34	1172.0	5.2	238.8	2.68 S 4.42 W	.10
1190.9	.59	169.55	1190.9	5.2	236.7	2.88 S 4.38 W	.07
1209.4	.92	188.92	1209.3	5.4	234.6	3.12 S 4.39 W	.66
1228.3	1.03	170.37	1228.3	5.6	231.9	3.43 S 4.38 W	.53
1246.9	1.04	151.33	1246.9	5.7	228.7	3.75 S 4.27 W	.55
1266.3	1.26	144.82	1266.3	5.8	224.9	4.08 S 4.07 W	.39
1285.9	1.63	140.07	1285.8	5.8	220.1	4.47 S 3.76 W	.60
1305.4	2.21	137.18	1305.3	6.0	213.9	4.96 S 3.33 W	.89
1324.3	3.13	135.62	1324.2	6.2	205.9	5.59 S 2.72 W	1.47
1343.4	3.35	135.23	1343.3	6.7	197.1	6.36 S 1.96 W	.34
1362.4	3.45	132.56	1362.3	7.2	189.1	7.14 S 1.15 W	.30
1381.7	3.53	129.52	1381.5	7.9	181.9	7.91 S .26 W	.31

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1400.3	2.89	128.68	1400.1	8.6	176.4	8.57 S	.55 E	1.02
1419.2	2.44	125.71	1419.0	9.2	172.2	9.10 S	1.24 E	.75
1438.4	1.78	123.47	1438.2	9.7	169.1	9.51 S	1.82 E	1.05
1457.0	1.24	122.14	1456.7	10.0	167.1	9.77 S	2.24 E	.86
1476.1	.95	122.53	1475.9	10.3	165.7	9.97 S	2.55 E	.46
1494.0	.80	131.05	1493.8	10.5	164.7	10.13 S	2.76 E	.34
1513.8	.86	126.15	1513.5	10.7	163.8	10.31 S	2.99 E	.15
1533.1	.72	157.81	1532.9	11.0	163.3	10.51 S	3.15 E	.70
1552.1	1.12	186.79	1551.9	11.3	163.6	10.80 S	3.17 E	.95
1571.4	1.03	205.38	1571.2	11.6	164.6	11.15 S	3.08 E	.56
1590.1	1.97	224.97	1589.9	11.9	166.4	11.53 S	2.78 E	1.69
1609.0	3.28	232.05	1608.7	12.3	170.0	12.09 S	2.13 E	2.14
1628.2	2.75	234.00	1627.8	12.8	174.1	12.69 S	1.32 E	.84
1647.3	2.34	238.91	1647.0	13.2	177.3	13.17 S	.62 E	.72
1665.8	2.59	240.08	1665.4	13.6	180.3	13.57 S	.07 W	.42
1684.1	2.21	253.51	1683.7	13.9	183.2	13.88 S	.77 W	1.11
1703.0	2.05	262.91	1702.6	14.1	185.9	14.02 S	1.45 W	.61
1722.3	2.02	260.05	1721.9	14.3	188.6	14.12 S	2.13 W	.16
1741.5	2.01	260.01	1741.1	14.5	191.1	14.24 S	2.79 W	.00
1760.6	1.62	277.77	1760.2	14.7	193.4	14.26 S	3.39 W	1.07
1779.8	1.29	296.82	1779.4	14.6	195.3	14.13 S	3.85 W	.91
1798.9	1.01	301.07	1798.5	14.6	196.7	13.94 S	4.19 W	.47
1818.3	1.10	281.19	1817.9	14.5	198.1	13.82 S	4.52 W	.58
1837.5	.96	264.76	1837.0	14.6	199.4	13.80 S	4.86 W	.51
1856.3	1.77	232.41	1855.8	14.9	200.6	13.99 S	5.25 W	1.73

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1874.9	2.54	230.31	1874.4	15.5	201.9	14.43 S	5.79 W	1.25
1894.1	2.77	252.32	1893.7	16.2	203.9	14.84 S	6.56 W	1.62
1913.3	2.71	256.73	1912.9	16.8	206.3	15.09 S	7.45 W	.34
1932.3	1.40	277.41	1931.8	17.2	208.2	15.16 S	8.12 W	2.35
1951.6	.72	357.56	1951.1	17.2	209.1	15.01 S	8.36 W	2.28
1971.0	1.98	50.37	1970.5	16.8	208.9	14.67 S	8.10 W	2.55
1989.8	3.31	60.03	1989.3	16.0	207.5	14.19 S	7.38 W	2.23
2008.2	5.30	67.39	2007.6	14.9	204.3	13.60 S	6.14 W	3.35
2016.7	6.64	68.49	2016.0	14.3	201.9	13.27 S	5.32 W	4.77
2025.0	7.81	69.81	2024.3	13.6	198.6	12.90 S	4.34 W	4.26
2025.4	7.81	69.78	2024.7	13.6	198.4	12.88 S	4.29 W	.29

Final Station Closure: Distance: 13.57 m Az: 198.42 deg.