



52K13SE0001 40 DIXIE LAKE

DIAMOND DRILLING

010

AREA: DIXIE LAKE

REPORT NO: 40

WORK PERFORMED FOR: TECK EXPLORATIONS LTD.

RECORDED HOLDER: SAME AS ABOVE [ ]

: OTHER [X] NATIONAL TRUST CO.

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
1023101	DL-28	1287'	JAN-FEB/90	(1)
"	DL-29	717'	FEB/90	"
"	DL-30	297'	"	"
1023100	DL-31	277'	"	"
1023107	DL-33	1347'	"	"
	5	3925'		

NOTE: (1) W9220.00026, FILED OCTOBER/92.

**TECK EXPLORATIONS LIMITED  
DIAMOND DRILL LOG**

Hole DL-28  
Sheet 1 of 6

Job <u>1562</u> N.T.S. <u>52 K/13</u>	Objective <u>To Test 88-4 Zone</u>	Core Location <u>Balmertown - Nungesser</u>	Tests
Property <u>Mutual Resources - Dixie Lake</u>	Drilling Co. <u>N. Morissette</u>	<u>Road Garage</u>	
Township <u>Dixie Creek Area</u>	Commenced <u>January 29, 1990</u>	Distance to Water <u>400 feet</u>	At Collar Dip <u>-65°</u> Azimuth <u>216½°</u>
Location: Line <u>0+00</u>	Completed <u>February 3, 1990</u>	Casing Lost <u>32 feet</u>	
Station <u>4+80mE</u>	Length <u>1287.0 feet</u>	Core Size <u>BQ</u>	See Page 6
Elevation _____			
Logged <u>Jim Janzen</u>			
Remarks <u>Successfully intersected zone between 1181.2' and 1201.3'.</u>			
<u>Claim: KRL 1023101</u>			

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
0	32.0	OVERBURDEN						
32.0	390.8	MAFIC TUFF	<p>Dark green, moderately foliated at 27-39° to core axis. Occasionally strongly foliated, predominantly very fine-grained, periodically fine to coarse-grained, coarser sections are strongly amphibolitic (actinolite). 3% pervasive carbonate-quartz stringers &lt;¼" thick along foliations. Pervasive weak chlorite alteration, local coarse pink garnet with weak banded appearance. This section may be sedimentary in origin.</p> <p>52.0-63.0 - Fine to medium-grained, "actinolitic", 1% coarse pink garnet.</p> <p>91.6-92.1 - Quartz-carbonate chloritic shear at 41° to core axis. 1% garnet.</p> <p>110.7-110.8 - ¼" quartz vein at 50° to core axis. Black chlorite on contacts. 4% pyrite on contacts. 20% coarse pink garnet proximal to vein.</p> <p>177.4-190.5 - Felsic dyke/felsic flow - light grey-green, cream, strong upper contact at 30° to core axis. Strong lower contact at 25° to core axis. Moderately to strongly foliated at 30-35° to core axis. Pervasive weak to moderate green sericite alteration. Trace to 1% pyrite.</p> <p>182.0-184.3 - Blocky vuggy core.</p> <p>190.5-381.0 - Medium to coarse amphibole common; 10-20%.</p> <p>307.0 - 1' sand seam.</p> <p>307.0-311.0 - Blocky ground.</p> <p>338.4-338.8 - 3" quartz-carbonate vein at 32° to core axis; non-mineralized.</p> <p>387.0-389.0 - Mafic tuff.</p>	F4753	387.0	389.0	2.0	<0.002

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton		
From	To									
390.8	417.6	FELSIC ASH TUFF	389.0-390.8 - Mafic tuff.	F4754	389.0	390.8	1.8	<0.002		
			Light and dark grey, strong upper contact at 35° to core axis. Very strong lower contact at 33° to core axis. Weakly to moderately foliated at 34-45° to core axis. Aphanitic, cherty appearance, local light green sericite alteration. Local dirty (argillaceous) sections dark grey, trace to 2% pyrite locally, predominantly unmineralized. (Note: genesis of unit uncertain, it could be a metasediment or a volcanic flow).							
			390.8-393.0 - 30% light green sericite; 1% pyrite.	F4755	390.8	393.0	2.2	<0.002		
			393.0-396.4 - 30% light green sericite; trace pyrite.	F4756	393.0	396.4	3.4	<0.002		
			396.4-399.0 - 30% dark grey, slightly argillaceous band, 70% light grey bands at 42° to core axis. Trace pyrite.	F4757	396.4	399.0	2.6	0.016		
			399.0-402.0 - 90% dark to medium grey siliceous material, 10% light green sericite at 46° to core axis. Trace to nil pyrite.	F4758	399.0	402.0	3.0	<0.002		
			402.0-406.0 - As above.	F4759	402.0	406.0	4.0	<0.002		
			406.0-410.0 - Light grey-white, strongly siliceous, cherty. 5% quartz-carbonate stringers at 37° to core axis; unmineralized.	F4760	406.0	410.0	4.0	<0.002		
			410.0-414.0 - 50% light green sericite. Trace pink garnets. Trace pyrite locally.	F4761	410.0	414.0	4.0	<0.002		
			414.0-417.6 - As above.	F4762	414.0	417.6	3.6	<0.002		
417.6	1181.2	MAFIC TUFF	Same as 32.0-390.8. (Note: Brown micaceous banded section more common in this interval than above).							
			417.6-420.0 - Mafic tuff.	F4763	417.6	420.0	2.4	<0.002		
			424.5-435.0 - >10% brown mica, weathered appearance, >5% argillaceous material.							
			436.9-437.4 - 80% quartz-carbonate vein material at 36° to core axis. 2% pyrite on contacts.							
			474.0-476.5 - 40% quartz-carbonate stringers at 35-42° to core axis. 1% pink garnet, trace to 1% pyrite.							
			540.5-545.5 - Blocky ground.							
			590.0-591.5 - 50% quartz-carbonate veining at 30° to core axis.							
			656.0-657.0 - As above.							
			777.0-778.0 - 50% coarse pink garnet.							
			778.0-789.5 - 5% coarse pink garnet.							
863.0-864.0 - Chlorite shear at 44° to core axis. 10% coarse pink garnet.										
882.5-885.4 - Very coarse actinolitic section.										
897.8-907.5 - 60-80% brown biotite sheared at 30° to core axis										

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton	
From	To								
			(possibly altered lamprophyre dyke). 971.0-971.5 - Chloritic shear at 55° to core axis. 10% coarse pink garnet. 5-8% coarse amphibolite is a very fine chlorite matrix. 997.0-1001.5 - 5-10% limonite stain at 46° to core axis aligned along foliations with quartz-carbonate stringers. 1020.2-1022.5 - 60% coarse pink garnet, 40% coarse amphibole, trace to 2% pyrite + pyrrhotite. (Note: 1067.0 downwards, unit becomes predominantly coarse and amphibolitic in composition). 1107.0-1108.2 - Mafic tuff; abundant microfractures, 2% pyrrhotite. 1108.2-1110.4 - 7" quartz-carbonate vein at 40° to core axis. 60% wall rock fragments, trace to 1% pyrrhotite + pyrite within vein material. 3% pyrrhotite, 1% pyrite, trace to 1% chalcopyrite + arsenopyrite on lower contact. 1110.4-1113.7 - Fine mafic tuff; 2-5% pyrrhotite + pyrite, trace chalcopyrite. 1113.7-1115.7 - Weakly graphitic argillite; banded at 40° to core axis. Pyrrhotite banding <1/2" thick - 15-20%, 2-3% pyrite, 1% chalcopyrite. 1115.7-1118.0 - Mafic tuff; 5% quartz-carbonate stringers, 5% pyrrhotite, 1-3% pyrite. 1152.42-1152.47 - Massive pyrrhotite band at 48° to core axis. 1173.0-1177.0 - Mafic tuff (hanging wall). Trace to 1% pyrrhotite, trace pyrite. 1177.0-1179.6 - As above. 1179.6-1181.2 - Mafic tuff (hanging wall), 5% quartz-carbonate stringers at 49° to core axis. Trace to 2% pyrrhotite + pyrite.						
1181.2	1201.3	SILICIFIED ZONE	Light grey-white, dark grey-green locally, strong upper contact at 48° to core axis. Strong lower contact at 45° to core axis. Unit moderately foliated locally at 45-50° to core axis. Aphanitic to very fine-grained. Unit is predominantly strongly silicified. Unit contains approximately 25% dark green-grey mafic sections, usually only weakly silicified. Minor local quartz-carbonate stringers. Mineralization is highly variable throughout unit. 3-18% pyrrhotite, trace to 10% pyrite, nil to 2% chalcopyrite, nil to 1% sphalerite, nil to 1 1/2% arsenopyrite. 1181.2-1182.5 - Strongly silicified, 15% dark green mafic fragments, 8-10% pyrrhotite, 2-4% pyrite, 2% chalcopyrite, trace arsenopyrite + sphalerite.	F4764 F4765 F4766 F4767 F4768 F4769 F4770 F4771 F4772	1107.0 1108.2 1110.4 1113.7 1115.7 1173.0 1177.0 1179.6 1181.2	1108.2 1110.4 1113.7 1115.7 1118.0 1177.0 1179.6 1181.2 1182.5	1.2 2.2 3.3 2.0 2.3 4.0 2.6 1.6 1.3	<0.002 <0.002 <0.002 <0.002 <0.002 0.006 0.026 0.020 0.037	

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
			1182.5-1184.5 - Strongly silicified, 1-3% pyrrhotite, trace to 1% pyrite + chalcopyrite.	F4773	1182.5	1184.5	2.0	0.044
			1184.5-1187.0 - Strongly silicified, 7% dark green-grey wisps at 50° to core axis. 5-10% pyrrhotite, trace to 1% chalcopyrite + pyrite, trace arsenopyrite.	F4774	1184.5	1187.0	2.5	0.009
			1187.0-1188.7 - As above.					
			1188.7-1190.0 - Dark green-grey section foliated and contacting silicified zone at 50° to core axis. Lower 6" moderately silicified with 18% pyrrhotite, 1% chalcopyrite + arsenopyrite.	F4775	1187.0	1188.7	1.7	0.030
				F4776	1187.0	1190.0	3.0	0.042
			1190.0-1192.0 - Strongly silicified; 5% dark green wisps at 48° to core axis. 1-3% pyrrhotite, trace to 1% pyrite.	F4777	1190.0	1192.0	2.0	0.052
			1192.0-1194.0 - Weakly silicified, dark grey-green section at 44° to core axis. Trace to 3% pyrrhotite + pyrite.	F4778	1192.0	1194.0	2.0	0.048
			1194.0-1195.0 - Strongly silicified, dark grey-green section. 8-18% pyrrhotite, 2% pyrite, 1% arsenopyrite.	F4779	1194.0	1195.0	1.0	0.022
			1195.0-1196.4 - Strongly silicified; 25% dark grey-green wisps at 46° to core axis. 10% pyrrhotite, trace pyrite + chalcopyrite.	F4780	1195.0	1196.4	1.4	0.032
			1196.4-1198.2 - Strongly to moderately silicified; 50% mafic wisps at 45-52° to core axis. (1197.8-1199.0: Quartz-carbonate vein at 55° to core axis). 10-18% pyrrhotite, 1% arsenopyrite, trace to 1% pyrite, trace chalcopyrite.	F4781	1196.4	1198.2	1.8	0.125
			1198.2-1199.4 - As above (no quartz-carbonate vein).	F4782	1198.2	1199.4	1.2	0.095
			1199.4-1201.3 - Dark grey to light grey, moderately to strongly silicified. 50-60% dark grey mafic wisps at 45° to core axis. 15-18% pyrrhotite, 2-3% pyrite, trace chalcopyrite.	F4783	1199.4	1201.3	1.9	0.121
1201.3	1287.0	MAFIC FLOW	Dark green, weakly foliated to massive at 45-48° to core axis. Very fine-grained, minor local quartz-carbonate stringers. Pervasive fine (20%) amphibole crystals, trace to nil pyrite + pyrrhotite.					
			1201.3-1203.0 - Mafic flow, weakly silicified, 10% quartz-carbonate fracture fillings at 45-55° to core axis. 1-4% pyrite + pyrrhotite, 1% sphalerite.	F4784	1201.3	1203.0	1.7	0.030
			1203.0-1207.0 - Mafic flow; 5% quartz-carbonate fracture fillings, 1% pyrite + pyrrhotite.	F4785	1203.0	1207.0	4.0	<0.002
			1207.0-1209.0 - Mafic flow; massive, unmineralized.	F4786	1207.0	1209.0	2.0	<0.002
1287.0		END OF HOLE						

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton	
From	To								
			Foliations - 50.0' at 27° to core axis. 100.0' at 30° to core axis. 150.0' at 38° to core axis. 200.0' at 35° to core axis. 250.0' at 34° to core axis. 300.0' at 30° to core axis. 350.0' at 42° to core axis. 400.0' at 35° to core axis. 450.0' at 41° to core axis. 500.0' at 37° to core axis. 550.0' at 40° to core axis. 600.0' at 42° to core axis. 650.0' at 35° to core axis. 700.0' at 36° to core axis. 750.0' at 37° to core axis. 800.0' at 38° to core axis. 850.0' at 44° to core axis. 900.0' at 34° to core axis. 950.0' at 43° to core axis. 1000.0' at 46° to core axis. 1050.0' at 47° to core axis. 1100.0' at 42° to core axis. 1150.0' at 45° to core axis. 1200.0' at 53° to core axis. 1250.0' at 44° to core axis. 1280.0' at 48° to core axis.						

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
Tests (continued from page 1)								
			Dip      Azimuth					
			100.0    -66°    216°					
			200.0    -65°					
			300.0    -64°					
			500.0    -63°					
			600.0    -59°					
			700.0    -60°					
			800.0    -59°    212.5°					
			900.0    -58°    211.5°					
			1010.0   -57½°   211.5°					
			1110.0   -56½°   211.5°					
			1210.0   -54°    209°					

# TECK EXPLORATIONS LIMITED DIAMOND DRILL LOG

Hole DL-29  
Sheet 1 of 3

Job <u>1562</u> <u>N.T.S.</u> <u>52 K/13</u> Property <u>Mutual Resources - Dixie Lake</u> Township <u>Dixie Creek Area</u> Location: Line <u>1+50mE</u> Station <u>3+90mE</u> Elevation _____ Logged <u>Jim Janzen</u>	Objective <u>To Test 88-4 Zone</u> <u>at Depth</u> Drilling Co. <u>H. Morissette</u> Commenced <u>February 4, 1990</u> Completed <u>February 7, 1990</u> Length <u>717.0 feet</u>	Core Location <u>Balmertown-Mungessor</u> <u>Road</u> Distance to Water <u>700 feet</u> Casing Lost <u>22 feet</u> Core Size <u>B0</u>	Tests <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">Dip</td> <td style="text-align: center;">Azimuth</td> </tr> <tr> <td>At Collar</td> <td style="text-align: center;">-60°</td> <td style="text-align: center;">216½°</td> </tr> <tr> <td style="text-align: center;">90.0</td> <td style="text-align: center;">-60°</td> <td style="text-align: center;">225½°</td> </tr> <tr> <td style="text-align: center;">210.0</td> <td style="text-align: center;">-58°</td> <td style="text-align: center;">225½°</td> </tr> <tr> <td style="text-align: center;">330.0</td> <td style="text-align: center;">-56½°</td> <td style="text-align: center;">223½°</td> </tr> <tr> <td style="text-align: center;">450.0</td> <td style="text-align: center;">-55°</td> <td style="text-align: center;">219½°</td> </tr> <tr> <td style="text-align: center;">650.0</td> <td style="text-align: center;">-50°</td> <td style="text-align: center;">-</td> </tr> </table>		Dip	Azimuth	At Collar	-60°	216½°	90.0	-60°	225½°	210.0	-58°	225½°	330.0	-56½°	223½°	450.0	-55°	219½°	650.0	-50°	-
	Dip	Azimuth																						
At Collar	-60°	216½°																						
90.0	-60°	225½°																						
210.0	-58°	225½°																						
330.0	-56½°	223½°																						
450.0	-55°	219½°																						
650.0	-50°	-																						
Remarks <u>88-4 Zone intersected from 631.0 to 648.0 feet.</u> <u>Claim: KRL 1023101</u>																								

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
0	22.0	OVERBURDEN						
22.0	202.5	MAFIC TUFF	Dark green, moderately to strongly foliated at 34-43° to core axis. Very fine to coarse-grained (coarse-grained section - actinolitic). Local brown biotitic sections yielding a weak banded appearance. Local quartz and quartz-carbonate veining (<1%). Pervasive chlorite (weak) alteration in coarse sections. Minor local coarse pink garnet. Trace to 1% pyrite, pyrrhotite and chalcopyrite locally. 95.3-95.8 - Quartz-carbonate vein at 50° to core axis. 4" true thickness. 2% pyrrhotite + pyrite on contacts. 110.5-117.0 - 6% quartz-carbonate veins, 1-4" thick at 30-50° to core axis. 1% pyrite + pyrrhotite, trace chalcopyrite. 179.6-180.3 - 80% quartz-carbonate vein material at 32° to core axis. 10% chlorite, 10% coarse pink garnet.					
202.5	226.0	FELSIC ASH/DYKE?	Light and medium grey, cream and red. Strong upper contact at 35° to core axis. Lower contact lost in drilling. Moderately banded/foliated at 35° to core axis. Aphanitic-cherty, local cream-green, very weak sericitic sections. Trace pyrite. (Note: Unit could be a felsic flow or dyke).					
226.0	624.4	MAFIC TUFF	Same as 22.0 to 202.5. 242.3-242.7 - Quartz vein, 3.5" thick at 47° to core axis. 5% pyrite on contacts. 242.7-260.0 - Massive section; mafic flow. 439.7-440.1 - Quartz-carbonate vein; 3" true thickness at 37° to core axis. 538.0-541.0 - Blocky ground.					



Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
			560.0-562.0 - Coarse amphibolitic mafic tuff.	F4787	560.0	562.0	2.0	<0.002
			562.6-565.8 - Lamprophyre dyke at 46° to core axis.					
			562.0-563.0 - Massive pyrite band from 562.6-562.7 at 47° to core axis.	F4788	562.0	563.0	1.0	<0.002
			563.0-567.0 - Lamprophyre dyke and mafic tuff.	F4789	563.0	567.0	4.0	<0.002
			565.8-591.0 - Massive mafic flow.	F4790	590.0	591.0	1.0	<0.002
			590.0-591.0 - Mafic flow.	F4791	591.0	592.0	1.0	<0.002
			591.0-592.0 - Quartz vein at 47° to core axis, 7" thick. 3% pyrite.	F4792	592.0	594.0	2.0	<0.002
			592.0-594.0 - Lamprophyre dyke at 35° to core axis.					
			592.0-594.8 - Lamprophyre dyke. Upper contact at 35° to core axis. Lower contact at 47° to core axis.					
			613.3-617.0 - Mafic tuff.	F4793	613.3	617.0	3.7	<0.002
			617.0-622.0 - Mafic tuff.	F4794	617.0	622.0	5.0	<0.002
			622.0-624.4 - Mafic tuff.	F4795	622.0	624.4	2.4	<0.002
624.4	631.0	SULFIDE-BEARING ARGILLITE	Dark grey-black, strong upper contact at 45° to core axis. Strong lower contact at 49° to core axis. Very fine-grained, weakly silicified in parts, weakly graphitic. 5% to semi-massive bands of pyrrhotite + pyrite, trace to 2% chalcopyrite locally.					
			624.4-625.8 - Weakly silicified argillite. 5-10% pyrite, 5-7% pyrrhotite.	F4796	624.4	625.8	1.4	0.039
			625.8-628.0 - Graphitic argillite, weakly silicified, 20% pyrrhotite + pyrite.	F4797	625.8	628.0	2.2	0.419
			628.0-630.0 - As above; 2% chalcopyrite.	F4798	628.0	630.0	2.0	0.010
			630.0-631.0 - Graphitic argillite; 15% pyrite, 3% pyrrhotite.	F4799	630.0	631.0	1.0	0.017
631.0	648.0	SILICIFIED ZONE	Medium grey, strong upper contact at 49° to core axis. Strong lower contact at 47° to core axis. 30% mafic volcanic non-silicified sections. Local quartz-carbonate veining. Local calcareous fault gouge. Strongly silicified, 3-15% pyrite, 1-7% pyrrhotite, trace arsenopyrite locally.					
			631.0-632.5 - Strongly silicified, weakly foliated at 48° to core axis. 5-7% pyrite, 1% pyrrhotite.	F4800	631.0	632.5	1.5	0.045
			632.5-634.5 - Strongly silicified, 1-5% pyrite, trace to 1% pyrrhotite.	F4801	632.5	634.5	2.0	0.049
			634.5-636.5 - Strongly silicified, 7-15% pyrite, 3-5% pyrrhotite, 1% arsenopyrite, trace sphalerite.	F4802	634.5	636.5	2.0	0.045
			636.5-638.5 - Strongly silicified, 20% quartz-carbonate stringers at 60° to core axis. 8-10% pyrite, 1-3% pyrrhotite.	F4803	636.5	638.5	2.0	0.052

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
648.0	717.0	MAFIC FLOW	638.5-639.5 - Strongly silicified; 5-10% pyrite.	F4804	638.5	639.5	1.0	<0.002
			639.5-642.0 - Weakly silicified mafic volcanic sheared at 45° to core axis. Strong chlorite alteration, 640.7-640.8 and 641.2-641.8 quartz-carbonate fault veins at 45° to core axis. 10% pyrite, 2-5% pyrrhotite.	F4805	639.5	642.0	2.5	<0.002
			642.0-644.3 - Mafic volcanic, two 1" calcareous pyritic fault gouges at 40-50° to core axis.	F4806	642.0	644.3	2.3	<0.002
			644.3-646.6 - Mafic volcanic.	F4807	644.3	646.6	2.3	0.006
			646.6-648.0 - Strongly silicified, sheared at 43° to core axis. 10-15% pyrite, 2% pyrrhotite.	F4808	646.6	648.0	1.4	0.190
			Dark green, very fine to coarse-grained, weakly foliated at 42-49° to core axis. Minor local quartz-carbonate stringers. Minor local lamprophyre dykes. Weak pervasive chlorite alteration, trace to 1% pyrite.					
			648.0-649.5 - Bleached (carbonate) mafic flow; 2% pyrite.	F4809	648.0	649.5	1.5	0.032
			649.5-651.0 - Bleached (carbonate) mafic flow; trace to 1% pyrite.	F4810	649.5	651.0	1.5	<0.002
			651.0-652.0 - Bleached (carbonate) mafic flow; trace pyrite.	F4811	651.0	652.0	1.0	<0.002
			690.0-690.7 - Lamprophyre dyke at 45° to core axis.					
			698.0-717.0 - Coarse-grained amphibolitic mafic flow.					
717.0	END OF HOLE		Foliations - 50.0' at 40° to core axis.					
			100.0' at 36° to core axis.					
			150.0' at 35° to core axis.					
			200.0' at 45° to core axis.					
			250.0' at 40° to core axis.					
			300.0' at 34° to core axis.					
			350.0' at 38° to core axis.					
			400.0' at 40° to core axis.					
			450.0' at 46° to core axis.					
			500.0' at 43° to core axis.					
			550.0' at 43° to core axis.					
600.0' at 51° to core axis.								
650.0' at 40° to core axis.								
700.0' at 44° to core axis.								

# TECK EXPLORATIONS LIMITED DIAMOND DRILL LOG

Hole DI-30  
Sheet 1 of 2

Job <u>1562</u> <u>N.T.S.</u> <u>52 K/13</u> Property <u>Mutual Resources - Dixie Lake</u> Township <u>Dixie Creek Area</u> Location: Line <u>2+50mN</u> Station <u>3+10mE</u> Elevation _____ Logged <u>Jjm Janzen</u>	Objective <u>To Test 88-4 Zone</u> Drilling Co. <u>H. Morissette</u> Commenced <u>February 7, 1990</u> Completed <u>February 8, 1990</u> Length <u>297.0 feet</u>	Core Location <u>Balmertown-Nungesser</u> Road _____ Distance to Water <u>1000 feet</u> Casing Lost <u>22 feet</u> Core Size <u>B0</u>	Tests <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">At Collar</th> <th style="width: 30%;">Dip</th> <th style="width: 40%;">Azimuth</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">-50°</td> <td style="text-align: center;">216½°</td> </tr> <tr> <td style="text-align: center;">100.0</td> <td style="text-align: center;">-49°</td> <td style="text-align: center;">_____</td> </tr> <tr> <td style="text-align: center;">200.0</td> <td style="text-align: center;">-50°</td> <td style="text-align: center;">_____</td> </tr> <tr> <td style="text-align: center;">297.0</td> <td style="text-align: center;">-50°</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	At Collar	Dip	Azimuth		-50°	216½°	100.0	-49°	_____	200.0	-50°	_____	297.0	-50°	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
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Remarks <u>88-4 Zone intersected from 233.0 to 239.2 feet.</u> <u>Claim: KRL 1023/01</u>																														

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton	
From	To								
0	15.0	OVERBURDEN							
15.0	233.0	MAFIC TUFF	Dark green, very fine-grained, occasional coarse actinolitic sections, moderately to strongly foliated at 40-50° to core axis. 1% quartz-carbonate stringers, weak pervasive chlorite alteration, occasional weakly banded brown mica-rich sections. Local coarse pink garnet. Trace to 1% pervasive pyrite + pyrrhotite. 39.5-42.0 - Blocky ground. 74.1-771. - 45% coarse pink garnet. 196.6-196.73 - Chloritic fault gouge at 59° to core axis. 196.73-203.0 - Blocky ground. 208.5-232.0 - Mafic "fragmental" tuff; massive appearance. 217.0-219.3 - Mafic tuff. 219.3-221.3 - Weakly silicified graphitic argillite. Strong upper and lower contact. 8% pyrite + pyrrhotite banding. 221.3-223.0 - Coarse actinolitic mafic tuff. 2% pyrite. 223.0-227.0 - Mafic tuff. 3% deformed carbonate-filled amygdules. 2-3% pyrite. 227.0-232.0 - Mafic tuff. 20% carbonate stringers. 4% pyrrhotite. 232.0-233.0 - As above; 10-12% pyrrhotite, 8-10% pyrite.	F4812	217.0	219.3	2.3	<0.002	
				F4813	219.3	221.3	2.0	<0.002	
				F4814	221.3	223.0	1.7	<0.002	
				F4815	223.0	227.0	4.0	0.012	
				F4816	227.0	232.0	5.0	0.019	
				F4817	232.0	233.0	1.0	0.040	
233.0	239.2	SILICIFIED ZONE "88-4 ZONE"	Dark to medium grey, very fine-grained to aphanitic, strong upper contact at 35° to core axis. Strong lower contact at 49° to core axis. Strongly silicified throughout, occasional dark grey-black wisps, 1-7% pyrite, trace to 2% pyrrhotite, nil to 2% arsenopyrite. 233.0-234.2 - Strongly silicified, 7-10% pyrite, 3% pyrrhotite. 233.0-236.5 - Strongly silicified, 2% dark grey wisps, 3-7% pyrite, 1-4% pyrrhotite, trace to 2% arsenopyrite.	F4818	233.0	234.2	1.2	0.004	
				F4819	234.2	236.5	2.3	0.014	

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
239.2	297.0	MAFIC FLOW	236.5-239.2 - Mafic volcanic with 30% strongly silicified bands and 5% quartz-carbonate bands. 1-2% pyrite + pyrrhotite.	F4820	236.5	239.2	2.7	0.017
			Dark green, fine to coarse-grained, actinolitic in parts. Weakly foliated at 45-40° to core axis. Trace to 1% pervasive pyrite.	F4821	239.2	241.0	1.8	<0.002
			239.2-241.0 - Mafic flow. 241.0-242.8 - Mafic flow. 251.0-257.0 - Brown mica banding at 48° to core axis - mafic tuff.	F4822	241.0	242.8	1.8	<0.002
297.0		END OF HOLE	Foliations - 50.0' at 40° to core axis. 100.0' at 45° to core axis. 150.0' at 42° to core axis. 200.0' at 43° to core axis. 250.0' at 50° to core axis. 297.0' at 45° to core axis.					

# TECK EXPLORATIONS LIMITED DIAMOND DRILL LOG

Hole DL-31  
Sheet 1 of 3

Job <u>1562</u> <u>N.T.S.</u> <u>52 K/13</u> Property <u>Mutual Resources - Dixie Lake</u> Township <u>Dixie Creek Area</u> Location: Line <u>4+00mH</u> Station <u>3+71mE</u> Elevation <u>6</u> Logged <u>B. Miller</u>	Objective <u>To Test The Northern</u> <u>Extension Of The 88-4 Zone</u> Drilling Co. <u>N. Morissette</u> Commenced <u>February 8, 1990</u> Completed <u>February 9, 1990</u> Length <u>277.0 feet</u>	Core Location <u>Balmertown-Nungesser</u> <u>Road</u> Distance to Water <u>1000 feet</u> Casing Lost <u>22 feet</u> Core Size <u>BQ</u>	Tests <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">Dip</td> <td style="text-align: center;">Azimuth</td> </tr> <tr> <td>At Collar</td> <td style="text-align: center;">-50°</td> <td style="text-align: center;">216½°</td> </tr> <tr> <td>100.0</td> <td style="text-align: center;">-49°</td> <td style="text-align: center;">-</td> </tr> <tr> <td>200.0</td> <td style="text-align: center;">-49°</td> <td style="text-align: center;">-</td> </tr> <tr> <td>277.0</td> <td style="text-align: center;">-47°</td> <td style="text-align: center;">-</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		Dip	Azimuth	At Collar	-50°	216½°	100.0	-49°	-	200.0	-49°	-	277.0	-47°	-																														
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Remarks <u>"88-4 Zone" encountered from 112.7' to 126.3'.</u> <u>Claim: KRL 1023100</u>																																																

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
0	20.0	OVERBURDEN						
20.0	27.1	MAFIC TO INTERMEDIATE LAPILLI TUFF	Mafic to intermediate lapilli tuff. Contains 1 to 10 cm angular, intermediate, fine-grained, medium-grey angular fragments/lapilli in fine-grained, dark green, massive mafic ash/tuff. In part matrix supported (40%); 60% clast supported. Nil mineralization. Moderately foliated.					
27.1	39.5	SILICIFIED FELSIC TO INTERMEDIATE TUFFS	Moderately silicified and partially K-feldspar metasomatized, felsic to intermediate ash tuff. Fine-grained, medium grey, moderately foliated. 50% blotches of buff to reddish-orange-coloured silicification with occasional minor coatings. Contains hairline quartz-calcite (carbonate) fracture coatings. Nil mineralization.					
39.5	112.7	MAFIC TUFF	Fine-grained, dark green, thinly to thickly bedded (0.5 cm to 10's of cm) mafic ash/tuff. Moderately foliated. Occasional brown 0.1 cm to 1.0 cm biotite-rich layers. Contains occasional subconcordant 0.2 cm to 10cm white quartz-carbonate fracture/foliation fillings (10% are cross-cutting/discordant). Nil to trace pyrite mineralization along fine-grained fracture/foliation coatings. Trace to ¼% fine-grained pervasive disseminated pyrite + pyrrhotite. Weakly to non-magnetic. Weak to moderate chlorite and actinolite alteration. 64.6-65.4 - Lapilli tuff - 0.2 cm to 1 cm subrounded mafic lapilli fragments in fine-grained mafic ash matrix. 68.9-72.0 - Lapilli tuff (as above). 81.0-81.3 - Subconcordant quartz-carbonate vein. Nil mineralization - white to cloudy. 109.0-111.7 - Layered mafic ash tuff. Nil to trace pyrite + pyrrho-	F4823	109.0	111.7	2.7	<0.002

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
			tite disseminated and as fracture coatings.					
			111.7-112.7 - Layered mafic ash tuff. Nil to trace pyrite + pyrrhotite disseminated and foliation coatings.	F4824	111.7	112.7	1.0	<0.002
112.7	126.3	SILICIFIED ZONE "88-4 ZONE"	Streaky banded medium grey, pervasively silicified zone. Pervasive silica replacement of felsic to intermediate tuffs. Upper contact at 33° to core axis. Lower contact at 50° to core axis. Contains interbeds of dark grey to black, weakly to moderately graphitic argillite, dark green mafic ash tuffs, occasional 0.3 cm black pyrrhotite mineralized biotite(?) clots and foliation coatings of pale greenish sericite? Nil carbonate alteration. Nil to trace to 1/2% fine-grained disseminated pyrite + pyrrhotite with local semi-massive foliation coatings and clots.					
			112.7-114.4 - Medium grey silicified "88-4" zone. Trace to 1% disseminated and fracture coating clots of pyrite + pyrrhotite - magnetite. Sericite alteration.	F4825	112.7	114.4	1.7	0.027
			114.4-116.1 - As above.	F4826	114.4	116.1	1.7	0.024
			116.1-117.3 - Dark grey to black graphitic argillite containing (5-20%) foliation bands of pyrite + pyrrhotite - strongly magnetic.	F4827	116.1	117.3	1.2	<0.002
			117.3-118.5 - Medium grey, silicified "88-4" Zone. Trace to 1% disseminated, foliation and fracture coatings of pyrite + pyrrhotite. Local semi-massive pyrrhotite clots. Sericite alteration. 0.2 cm black biotite? clots (as sample F4825).	F4828	117.3	118.5	1.2	<0.002
			118.5-119.9 - Dark green, mafic ash tuff, moderately foliated to massive. Nil to trace pyrite + pyrrhotite disseminated.	F4829	118.5	119.9	1.4	<0.002
			119.9-121.3 - Blotchy silicified "88-4" zone containing inclusions mafic ash tuff and black biotite(?) clots. Trace to 1/2% pyrite + pyrrhotite. Moderately magnetic.	F4830	119.9	121.3	1.4	<0.002
			121.3-123.5 - As 116.1-117.3. Dark grey to black graphitic argillite. Semi-massive foliation bands. (5-60%) pyrite + pyrrhotite. Strongly magnetic.	F4831	121.3	123.5	2.2	0.024
			123.5-124.2 - As 117.3-118.5. Silicified "88-4" zone. Trace to 5% disseminated and foliation coatings pyrite + pyrrhotite.	F4832	123.5	124.2	0.7	<0.002
			124.2-124.9 - As 118.5-119.9. Dark green mafic ash tuff. Moderately foliated to massive. Nil to trace disseminated and foliated pyrite + pyrrhotite.	F4833	124.2	124.9	0.7	<0.002
			124.9-126.3 - As 117.3-118.5. Silicified "88-4" zone. Trace to 10% disseminated foliation coatings pyrite + pyrrhotite. Sericite + chlorite alteration occur. Hairline calcite fracture coatings.	F4834	124.9	126.3	1.4	<0.002

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
126.3	277.0	MAFIC FLOW	Dark green, fine-grained, moderately foliated to massive mafic metavolcanic flows. Occasional brown wisps represent biotite on foliations. Random hairline to 2 cm quartz-carbonate fracture coatings occasionally concordant to discordantly cut the section. Nil sulphide mineralization. Trace disseminated and foliation coatings pyrite occur rarely through section.					
			126.5-127.2 - Moderately foliated mafic flows. Nil to trace disseminated pyrite + pyrrhotite. Occasional hairline foliation and cross-cutting quartz-carbonate veinlets.	F4835	126.3	127.2	0.9	<0.002
			127.2-132.0 - As above with weak layering. Possibly narrow interflow tuffs? Nil to trace pyrite + pyrrhotite.	F4836	127.2	132.0	4.8	<0.002
			220.5-220.7 - Silicification along flow contacts. Slight brecciation, nil mineralization.					
277.9		END OF HOLE	Foliations - 50.0' at 34° to core axis. 100.0' at 35° to core axis. 150.0' at 43° to core axis. 200.0' at MSV. 250.0' at MSV. 277.0' at 44° to core axis.					

**TECK EXPLORATIONS LIMITED  
DIAMOND DRILL LOG**

Wole DI-33  
Sheet 1 of 7

Job <u>1562</u> N.T.S. <u>52 K/13</u>	Objective <u>To Test 88-4 Zone</u>	Core Location <u>Balmertown-Mungesser</u>	Tests - Sperry Sun
Property <u>Mutual Resources - Dixie Lake</u>		<u>Road</u>	Dip _____ Azimuth _____
Township <u>Dixie Lake Area</u>	Drilling Co. <u>H. Morissette</u>	Distance to Water <u>300 feet</u>	At Collar <u>-50°</u> <u>225°</u>
Location: Line <u>1+50mS</u>		Casing Lost <u>72 feet</u>	_____
Station <u>4+75mE</u>	Commenced <u>February 12, 1990</u>		_____
Elevation _____	Completed <u>February 18, 1990</u>	Core Size <u>BQ</u>	_____
Logged <u>B. Miller</u>	Length <u>1347.0 feet</u>		<u>See Page 7</u>
Remarks <u>88-4 zone intersected from 1232.3 to 1250.5 feet.</u>			_____
<u>Claim: KRL 1023107</u>			_____

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
0	63.5	OVERBURDEN						
63.5	737.8	MAFIC ASH TUFF	<p>Fine to medium to occasionally coarse-grained, dark green, wispy to thickly bedded mafic tuffs. Coarse-grained, dark green to black amphiboles form massive intergrowths in the thicker, more massive members and occasionally along quartz calcite fracture and foliation infillings. Garnets (buff to pink in colour) occur within coarsely textured amphibolite-rich beds and along locally recrystallized fracture fillings. Occasional to rare interbedded lapilli tuffs form relatively narrow bands. Foliation is moderately developed. Many hairline to several centimetre-thick quartz-carbonate fracture /foliation fillings trend along the foliation. Pyrite and rarely pyrrhotite forms accessory trace to local <math>\frac{1}{2}</math>% disseminations and rarely more easily visible clots along well-foliated and/or silicified veinlets. An amphibolite metamorphic grade is dominant. Biotite forms medium-grained, brown and black wisps and clots along foliations in coarsely textured tuff bands. A more coarsely recrystallized zone occurs from 237.0' to 306.0'.</p> <p>109.6-110.1 - Coarse-grained recrystallized quartz-calcite-amphibolite clot. Nil to trace pyrite.</p> <p>110.8-111.2 - As above.</p> <p>216.9-217.3 - Silicified and carbonate-altered veinlet - concordant. Nil mineralization.</p> <p>237.0-238.0 - Clear to cloudy-white quartz and carbonate-altered veinlet - concordant. Nil mineralization.</p> <p>266.7-267.9 - Clear to cloudy-white discordant quartz-carbonate vein.</p> <p>306.3-362.7 - Mafic lapilli tuff - flattened and foliated intermediate and mafic lapilli fragments in fine-grained mafic amphibolitic</p>					



Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
			<p>ash matrix. In part clast supported/in part matrix supported. Nil to trace fine-grained disseminated accessory pyrite + pyrrhotite. Occasional narrow pyrrhotite and/or pyrite foliation coatings.</p> <p>415.9-421.9 - As above.</p> <p>423.2-424.4 - Coarse-grained garnetiferous horizon with buff to pink euhedral garnets.</p> <p>499.9-503.9 - As above. Coarse-grained euhedral garnets. Trace to 1% disseminated pyrite + magnetite - strongly magnetic.</p> <p>561.2-561.9 - Cloudy quartz-carbonate vein. Nil to trace pyrite mineralization (10° to core axis along lower contact).</p> <p>562.6-562.8 - Vuggy, cloudy-white, quartz vein with coarse-grained disseminated pyrite (trace to 2% with local semi-massive clots).</p> <p>566.0-566.5 - Clear to cloudy quartz vein. Nil mineralization (lower contact at 25° to core axis).</p> <p>634.3-635.7 - Medium grey intermediate ash tuff.</p> <p>642.8-645.8 - As above.</p> <p>675.9-676.9 - Contorted quartz-carbonate foliation filling. Chlorite-altered contacts. Nil to trace pyrite foliation coatings and occasional coarse-grained buff to purple garnets.</p> <p>680.1-690.9 - As above.</p> <p>687.2-687.8 - Clear to cloudy-white quartz vein - contains black biotite clots (tourmaline?) and has chlorite-altered contacts. Nil mineralization.</p>					
737.8	767.1	INTERMEDIATE ASH TUFF	<p>Fine to medium-grained, grey to greenish intermediate ash tuff with occasional (&gt;20cm) dark green amphibolitic mafic ash tuff bands. Moderately foliated, thinly bedded to massive. Nil to trace accessory disseminated pyrite.</p> <p>756.5-761.5 - Dark green, fine to medium-grained mafic ash tuff band.</p> <p>764.2-765.2 - As above.</p> <p>765.2-765.7 - Coarsely garnetiferous and magnetite-mineralized mafic ash tuff - strongly magnetic.</p>					
767.1	1138.5	MAFIC TO INTERMEDIATE LAPILLI TUFF	<p>Fine to medium-grained, medium grey, 0.5 to 5cm flattened intermediate lapilli fragments in fine to coarse-grained, dark green to brown biotitic mafic ash matrix. Moderately foliated. Amphibolite grade metamorphism is dominant. Nil to trace fine-grained disseminated pyrite and occasional pyrrhotite occur as accessory sulphides. Rare hairline fracture coatings of quartz-carbonate are discordant to</p>					

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton	
From	To								
1138.5	1225.8	MAFIC ASH TUFF	<p>concordant. Also rare flattened felsic fragments (&lt;2%) are present. Discordant 1-5cm, clear to cloudy-white quartz veins are rare (1-2 per 100'). Lower contact is gradational into mafic ash tuff.</p> <p>844.5-845.0 - Rubbly/blocky core.</p> <p>931.5-932.6 - Coarse-grained quartz-chlorite-carbonate-biotite clots. Nil mineralization.</p> <p>1039.9-1040.8 - Cloudy-white quartz vein. Nil mineralization (lower contact at 10° to core axis).</p> <p>1063.8-1064.5 - As above, trace fracture coatings of pyrite (50° to core axis).</p> <p>Fine to coarse-grained, dark green mafic ash tuff. Unit is in gradational contact with lapilli tuffs. Contact is marked by a progressively decreasing number of flattened lapilli fragments. Contains occasional concordant to discordant quartz-carbonate foliation/fracture coatings &lt;1mm to 20mm thick. Amphibolite grade metamorphism is dominated by coarse-grained, green to black amphibole intergrowths. Rare brown biotite foliation coatings are present. Minor black graphitic argillite beds contain trace to ¼% disseminated and semi-massive clots and foliation coatings of pyrrhotite. Disseminated trace to 2% pyrite and pyrrhotite occurs throughout the section.</p> <p>1140.3 - 1cm-thick semi-massive foliation coating of pyrrhotite - magnetic.</p> <p>1140.8-1141.2 - Coarsely recrystallized/brecciated mafic ash tuff with clots of biotite, amphibole, quartz-carbonate and pyrrhotite.</p> <p>1153.6 - 3mm foliation coating of semi-massive pyrrhotite. 2cm-thick trace to 1% disseminated chalcopyrite zone in wall rock just up hole from pyrrhotite seam.</p> <p>1154.5-1154.7 - Fine-grained dark grey to black graphitic argillite. Contains trace to 1% semi-massive clots and disseminations of pyrrhotite.</p> <p>1165.3-1165.5 - Felsic tuff bed - trace to 3% disseminated and foliation coatings of pyrrhotite.</p> <p>1181.4-1182.0 - Fine-grained, laminated, dark grey to charcoal-coloured, graphitic argillite. Trace to 20% fine-grained disseminated and foliation coatings pyrrhotite.</p> <p>1182.9-1185.1 - As above including narrow (&lt;1cm) siliceous ash tuff bands.</p> <p>1186.4-1186.8 - As above. 2mm semi-massive chalcopyrite foliation coating.</p>						
				F4841	1181.4	1182.0	0.6	<0.002	
				F4842	1182.9	1185.1	2.2	<0.002	
				F4843	1186.4	1186.8	0.4	<0.002	

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
			1198.6-1199.2 - Feldspar crystal tuff - coarse-grained white feldspar crystals in fine to medium-grained black mafic ash tuff matrix.					
			1202.6-1203.1 - As 1181.4-1182.0.	F4844	1202.6	1203.1	0.5	0.023
			1205.1-1205.9 - As 1181.4-1182.0.	F4845	1205.1	1205.9	0.8	0.069
			1216.7-1219.6 - As 1181.4-1182.0.	F4846	1216.7	1219.6	2.9	0.061
			1222.9-1225.8 - Intermediate bands ash tuff at lower mafic ash tuff contact.					
			1223.1-1223.3 - Fine-grained, medium to dark grey, laminated, siliceous graphitic argillite band. Trace to 1% pyrite disseminated and as 2mm fracture fillings.					
1225.8	1232.3	GRAPHITIC ARGILLITE	Fine-grained, laminated, black to charcoal-grey graphitic argillite. Contains trace to 40% brown foliation coatings - bronze magnetic pyrrhotite. Moderately siliceous (hard to scratch) laminations 1-8mm show some soft sediment deformation - difficult to determine top directions.					
			1225.8-1229.0 - Graphitic argillite.	F4847	1225.8	1229.0	3.2	0.013
			1229.0-1232.3 - Trace sphalerite within pyrrhotite clots.	F4848	1229.0	1232.3	3.3	0.022
1232.3	1250.5	SILICIFIED ZONE	Carbonate and cloudy-white quartz infilling of brecciated? siliceous felsic tuffs(?) interlayered with graphitic argillite. 50-80% replacement by quartz-carbonate veining ribboned with fine-grained pyrrhotite (with lesser pyrite and chalcopyrite) wisps, clots and fracture fillings. Zone contacts are subconcordant (upper contact at 47° to core axis; lower contact at 48° to core axis). Shadowy inclusions and wispy bands of silicified, grey graphitic argillite separate quartz ribboning. Zone contains 1/2 to 20% fine-grained ribbon clots and foliation coatings of pyrrhotite. Occasional fine-grained clots of chalcopyrite within the larger pyrrhotite clots. Bands of mafic metavolcanic flows and lesser quartz-ribboned argillite.					
			1232.3-1235.0 - Quartz-carbonate veined silicified zone, trace to 2% foliation and fracture filling pyrrhotite, 1-2mm pyrite seam. 40% graphitic argillite banding.	F4849	1232.3	1235.0	2.7	0.055
			1235.0-1237.7 - As above, trace to 10% pyrrhotite ribboning - 50% graphitic argillite banding.	F4850	1235.0	1237.7	2.7	0.059
			1237.7-1238.1 - Green-brown biotitic mafic metavolcanic band. Nil to trace fine-grained disseminated pyrite + pyrrhotite - weakly magnetic.	F4851	1237.7	1238.1	0.4	<0.002
			1238.1-1239.8 - Silicified zone. Trace to 1% to local 10% hairline ribbons/foliation coatings of pyrrhotite + pyrite. 40% graphitic	F4852	1238.1	1239.8	1.7	0.045

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
			argillite banding.					
			1239.8-1240.4 - Brown biotitic mafic metavolcanic flow(?) band. Nil - trace - $\frac{1}{2}$ % fine-grained disseminated pyrite + pyrrhotite, weakly to moderately magnetic.	F4853	1239.8	1240.4	0.6	<0.002
			1240.4-1242.3 - Silicified zone. 20-60% graphitic argillite banding. Trace to 20% foliation coatings and clots of fine-grained pyrrhotite + pyrite.	F4854	1240.4	1242.3	1.9	0.059
			1242.3-1244.1 - Silicified argillite with 10-30% quartz-carbonate foliation infilling, 1-10% foliation coatings and clots of fine-grained pyrrhotite.	F4855	1242.3	1244.1	1.8	0.095
			1244.1-1246.7 - Silicified zone - fracture and foliation filling of quartz and carbonate into laminated graphitic argillite, 1-30% foliation coatings and clots pyrrhotite with occasional 1-3mm fine-grained chalcopyrite clots. Trace arsenopyrite clots.	F4856	1244.1	1246.7	2.6	0.147
			1246.7-1247.8 - Brown biotitic mafic metavolcanic flow band. Trace to $\frac{1}{2}$ % fine-grained disseminated pyrite + pyrrhotite - moderately magnetic.	F4857	1246.7	1247.8	1.1	0.026
			1247.8-1248.7 - As 1242.3-1244.1 - trace arsenopyrite clots.	F4858	1247.8	1248.7	0.9	0.017
			1248.7-1250.5 - As 1244.1-1246.7.	F4859	1248.7	1250.5	1.8	0.103
1250.5	1347.0	MAFIC FLOWS	Fine-grained, dark green, massively textured, weakly foliated mafic metavolcanic flows. The unit is cut randomly by variably oriented (concordant to discordant) hairline to 2-3cm quartz-carbonate fracture fillings. Flows contain nil to trace fine-grained accessory pyrite. Brown biotite replaces amphibole in a 6'-7' alteration halo just downhole from the silicified zone. A gradational decrease downhole in biotite replacement occurs within the 6'-7' halo. The flows are homogeneous in texture and composition.					
			1250.5-1253.5 - Biotite altered mafic flows - brownish-green in colour. Nil to trace fine-grained disseminated accessory pyrite. Sharp upper contact with "88-4" zone. Rubbly core occurs in more intensely fractured intervals.	F4860	1250.5	1253.5	3.0	0.020
			1265.0-1266.5 - Rubbly core.					
			1272.0-1274.8 - Rubbly core.					
			1319.8-1320.2 - Rubbly core.					
			1327.2-1327.4 - Quartz-carbonate fracture filling; nil mineralization (1" thick at 27° to core axis).					
			1332.3-1336.0 - Rubbly core.					
			1333.8-1334.1 - Quartz-carbonate fracture filling; nil mineralization					

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
1347.0		END OF HOLE	<p>(1.5" thick at 27° to core axis).</p> <p>Foliations - 100.0' at 41° to core axis.            150.0' at 35° to core axis.            200.0' at 35° to core axis.            250.0' at 37° to core axis.            300.0' at 40° to core axis.            350.0' at 37° to core axis.            400.0' at 37° to core axis.            450.0' at 45° to core axis.            500.0' at 36° to core axis.            550.0' at 36° to core axis.            600.0' at 41° to core axis.            650.0' at 45° to core axis.            700.0' at 41° to core axis.            750.0' at 42° to core axis.            800.0' at 42° to core axis.            850.0' at 40° to core axis.            900.0' at 42° to core axis.            950.0' at 44° to core axis.            1000.0' at 46° to core axis.            1050.0' at 52° to core axis.            1100.0' at 53° to core axis.            1150.0' at 50° to core axis.            1200.0' at 50° to core axis.            1250.0' at 48° to core axis.            1300.0' at 47° to core axis.            1347.0' at 50° to core axis.</p>					

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au oz/ton
From	To							
			Tests - continued from Page 1					
			Dip      Azimuth					
			190.0'    65.7°    221.5°					
			290.0'    63.5°    218.5°					
			400.0'    62.2°    219.5°					
			600.0'    61.9°    217.0°					
			700.0'    61.0°    215.5°					
			820.0'    60.5°    215.0°					
			940.0'    59.5°    magnetic					
			1040.0'   56.0°    209.5°					
			1140.0'   54.0°    208.5°					
			1240.0'   53.0°    magnetic					
			1340.0'   52.0°    207.5°					

**Report of Work Conducted After Recording Claim**

Transaction Number  
**W9220.00026**

**Mining Act**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



Mining

900

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) <b>National Trust Company</b>		Client No. <b>174637</b>
Address <b>21 King St. E., Toronto, ON M5C 1B3</b>		Telephone No. <b>416-813-4600</b>
Mining Division <b>Red Lake</b>	Township/Area <b>Dixie Lake Area</b>	M or G Plan No. <b>G1769</b>
Dates Work Performed From: <b>January 25, 1990</b>		To: <b>February 28, 1990</b>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	<b>Diamond Drilling holes DA 28, 29, 30, 31, 33</b>
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 31871

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
<b>J. Janzen</b>	<b>RR #5-19 Legault St.</b>
<b>Teck Explorations Limited</b>	<b>North Bay, Ontario</b>
	<b>P1B 8Z4</b>

(attach a schedule if necessary)

**Certification of Beneficial Interest \* See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <b>May 20, 1992</b>	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	-----------------------------	--

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <b>Mr. R.A. Quartermain</b>	Mutual Resources Ltd. <b>900 - 850 W. Hastings St., Vancouver, BC V6C 1E1</b>	
Telephone No. <b>604-689-3846</b>	Date <b>May 20, 1992</b>	Certified By (Signature) <i>[Signature]</i>

**For Office Use Only**

Total Value Cr. Recorded <b>\$ 31,871.00</b>	Date Recorded <b>May 21, 1992</b>	Mining Recorder <b>Burton Thompson</b>	Received Stamp <b>ACTING RECORDER</b>
	Deemed Approval Date	Date Approved <b>May 21, 1992</b>	
	Date Notice for Amendments Sent		



Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des mines

**Statement of Costs  
for Assessment Credit**

**État des coûts aux fins  
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction  
**W9220.00026**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'œuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Diamond Drilling		
		63743	
			63743
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
<b>Total Direct Costs Total des coûts directs</b>			<b>63743</b>

**2. Indirect Costs/Coûts indirects**

\*\* Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			
<b>Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)</b>		<b>Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

**Filing Discounts**

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
63743	31871

**Remises pour dépôt**

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

**Certification Verifying Statement of Costs**

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as President, Mutual Res. Ltd. I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

**Attestation de l'état des coûts**

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature [Signature] Date May 20, 1992



Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	KRL1023101	1
	KRL1023100	1
	KRL1023107	1
	KRL1056811	1
	KRL1056812	1
	KRL1056813	1
	KRL1056814	1
	KRL1056815	1
	KRL1056816	1
	KRL1056817	1
	KRL1056818	1
	KRL1056819	1
	KRL1056820	1
	KRL1056821	1
	KRL1056822	1
	KRL1056894	1
	KRL1056895	1

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
18426	200
2270	138
11175	200
	680
	380
	196
	240
	240
	240
	680
	680
	680
	680
	680
	680
	240
	240

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserv. Work to be Claimed at a Future Date
11988	6238
	2132
10974	1

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1.  Credits are to be cut back starting with the claim listed last, working backwards.
2.  Credits are to be cut back equally over all claims contained in this report of work.
3.  Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

**Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.**

**Note 2: If work has been performed on patented or leased land, please complete the following:**

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	KRL 1056896	1
	KRL 1056847	1
	KRL 1056848	1
	KRL 1056849	1
	KRL 1056850	1
	KRL 1056851	1
	KRL 1056852	1
	KRL 1056855	1
	KRL 1056856	1
	KRL 1056857	1
	KRL 1056858	1
	KRL 1056859	1
	KRL 1056860	1
	KRL 1056861	1
	KRL 1056862	1
	KRL 1056863	1
	KRL 1056864	1
Total Number of Claims		

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim		
	240		
	218		
	314		
	240		
	240		
	240		
	200		
	240		
	240		
	240		
	240		
	240		
	240		
	240		
	240		
	240		
	240		
Total Value Work Done		Total Value Work Applied	

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve Work to be Claimed at a Future Date		
Total Assigned From		Total Reserve	

Total Assigned From

Total Reserve

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I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	KRL1057201	1
	KRL1057202	1
	KRL1057203	1
	KRL1057204	1
	KRL1056865	1
	KRL1057205	1
	KRL1057206	1
	KRL1057207	1
	KRL1057208	1
	KRL1057209	1
	KRL1057210	1
	KRL1057211	1
	KRL1057212	1
	KRL1023124	1
	KRL1023125	1
	KRL1023126	1
	KRL1023127	1
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim	
	280	
	280	
	280	
	280	
	240	
	280	
	280	
	280	
	280	
	280	
	280	
	280	
	280	
	280	
	178	
	400	
	372	
	160	
Total Value Work Done		Total Value Work Applied

Value Assigned from this Claim	Reserve Work to be Claimed in a Future Date	
Total Assigned From		Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

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**Note 2: If work has been performed on patented or leased land, please complete the following:**

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Date
Signature	Date

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	KRL1056792	1
	KRL1056793	1
	KRL1056794	1
	KRL1056795	1
	KRL1056796	1
	KRL1056797	1
	KRL1056798	1
	KRL1056799	1
	KRL1056800	1
	KRL1056801	1
	KRL1056802	1
	KRL1056803	1
	KRL1056804	1
	KRL1056805	1
	KRL1056806	1
	KRL1056807	1
	KRL1056808	1
Total Number of Claims		

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
	54
	160
	160
	160
	160
	160
	160
	160
	116
	160
	160
	160
	160
	160
	160
	54
	116
	164
Total Value Work Done	
Total Value Work Applied	

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve Work to be Claimed at a Future Date
Total Assigned From	
Total Reserve	

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1.  Credits are to be cut back starting with the claim listed last, working backwards.
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Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Date
Signature	Date



Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	KRL 1023072	1
	KRL 1023073	1
	KRL 1023074	1
	KRL 1023075	1
	KRL 1023076	1
	KRL 1023077	1
	KRL 1023095	1
	KRL 1023096	1
	KRL 1023098	1
	KRL 1023099	1
94		

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
	262
	240
	200
	200
	138
	160
	160
	160
	120
	120
31871	23500

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve Work to be Claimed at a Future Date
22962	8371

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

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- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

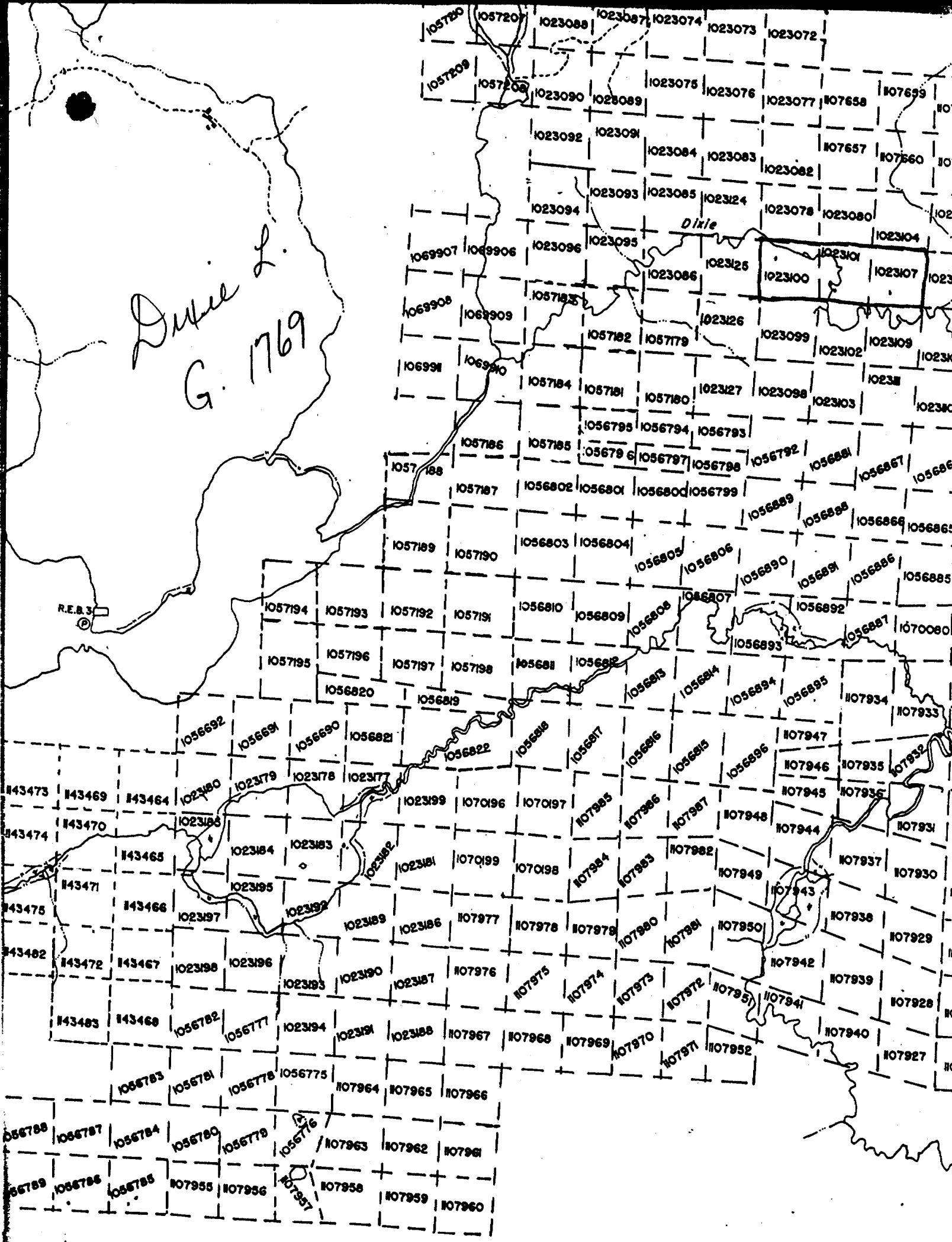
I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature: *[Signature]* Date: May 20, 1992

Dixie L.  
G. 1769

Dixie

R.E.B.3





# TECK EXPLORATION LTD

May 14, 1992

Office of the Mining Recorder  
MINISTRY OF NORTHERN DEVELOPMENT & MINES  
Ontario Government Building  
Box 324  
Red Lake, Ontario  
P0V 2M0

ONTARIO GEOLOGICAL SURVEY  
GIS - ASSESSMENT FILES

JUN 24 1992

**RECEIVED**

Dear Sirs:

**RE: DIXIE LAKE AREA CLAIMS**

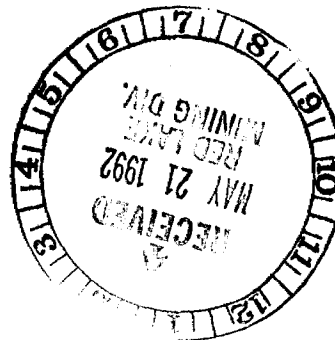
This letter will confirm that Mutual Resources Ltd. has a beneficial interest in the 197 claims listed on the attached sheets and that they are entitled to file assessment work conducted by Teck Exploration Ltd.

Yours truly,

TECK EXPLORATION LTD.

(Mrs.) Karen L. Dunfee  
Land Officer

KLD:cat  
Encls.





MUTUAL RESOURCES LTD. - G. DESMEULES- M. DESMEULES- W. MCNERNEY- D.B. SMITH

Agreement date: 19 August 1988		
Amt. or Nature	Date Due	Action
See SS-77-3 for TC-Mutual option agm		summary

GROUP NAME Dixie Lake AREA Dixie Lake

TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake

PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

IDENTIFICATION	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE \$	ASSESSMENT WORK FILED						D TO
					DD	EM/MAG	HLEM	GEOL	DD		
KRL 1023078	17 Jun 88	17 Jun 97		36	22/20/3	15/31/13				21/36/1	
KRL 1023080	"	" 95		50	15/20/3	16/33/16				51/1	
KRL 1023082	02 Aug 88	02 Aug 95		138	6/20/2	15/31/13				1/6/12	
KRL 1023083	"	" 96		120	20/20/5	15/31/13				36	
KRL 1023084	"	" 94		200	5/20/1	15/31/13				15	
KRL 1023085	"	" 95		138	20/40/1	40/20				1	
KRL 1023086	"	" 93		20	20/40/1	20/10					
KRL 1023098	21 Jun 88	21 Jun 96		120	1/8/1	16/33/16				2/4/4	
KRL 1023099	"	" 96		120	1/1/89	16/33/16	23			21	
KRL 1023100	"	" 95		138	1/1/1	16/33/16	23			51/16	
KRL 1023101	"	" 94		200	19	16/33/16				16	
KRL 1023102	"	" 94		200	35	16/33/16					
KRL 1023103	"	" 95		380	1/21	16/33/16	23				
KRL 1023104	"	" 95		160	20/14/1	16/33/16				21	
KRL 1023105	"	" 95		138	20/40/1					40/21	
KRL 1023106	"	" 94		222	20/14	16/33/16					
KRL 1023107	"	" 94		200	3/32	16/33/16					
KRL 1023108	"	" 94		200	35	16/33/16					
KRL 1023109	"	" 94		200	3/32	16/33/16					
KRL 1023110	"	" 94		222	20/14	16/33/16					
KRL 1023111	"	" 94		200	1/31/3/1	16/33/16					

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER National Trust Company Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_

OTHER TERMS OF AGREEMENT \_\_\_\_\_

MUTUAL RESOURCES LTD. - G. DESMEULES- M. DESMEULES- W. MCNERNEY- D.B. SMITH

Agreement date: 19 August 1988

GROUP NAME Dixie Lake AREA Dixie Lake

TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake

PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

Amt. or Nature	Date Due	Action
See SS-77-3 for	TC-Mutual option agr	summary

AREA OF INTEREST CLAIMS

IDENTIFICATION	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE \$	ASSESSMENT WORK FILED					DD	DA TO
					DD	EM/MAG	HLEM	GEOL			
KRL 1023124	21 Jun 88	21 Jun 94		178	20/21	15/31	13				
KRL 1023125	"	" 92		170		16/33	16				
KRL 1023126	"	" 93		372	8/1	16/33	16				
KRL 1023127	"	" 95		160	20/40	20/40					
KRL 1056792	08 Sep 88	08 Sep 96		54	20/40/1	40/20					
KRL 1056793	"	" 95		160	20/40	40/20					
KRL 1056794	"	"			20/40	40/20					
KRL 1056795	"	"			20/40	40/20					
KRL 1056796	"	"			20/40	40/20					
KRL 1056797	"	"			20/40	40/20					
KRL 1056798	"	" 95		160	20/40	40/20	Assay	Mech/	Power		
KRL 1056799	"	" 95		116	20/1/1	40/20	40	Man.	Strip		
KRL 1056800	"	" 95		160	20	40/20	40				
KRL 1056801	"	"			20	40/20	40				
KRL 1056802	"	"			20	40/20	40				
KRL 1056803	"	"			10	40/20		10	40		
KRL 1056804	"	"				40/20		2/18	40		
KRL 1056805	"	" 95		160		40/20		20	40		
KRL 1056806	"	" 96		54	1/1	40/20		20	40	21	
KRL 1056807	"	" 94		40	1/1	30/15		20	40		
KRL 1056808	"	" 96		164		40/20		7	50	21	

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER National Trust Company Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_

OTHER TERMS OF AGREEMENT \_\_\_\_\_

MUTUAL RESOURCES - G. DESMEULES- M. DESMEULES- W. MCNERNEY- D.B. SMITH

Agreement date: 19 August 1988		
Amt. or Nature	Date Due	Actio

GROUP NAME Dixie Lake AREA Dixie Lake

TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake

PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

IDENTIFICATION AREA OF INTEREST OR	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE \$	ASSESSMENT WORK FILED						D TO
					DD	EM/MAG	HLEM	PStrip	DD		
KRL 1056809	08 Sep 88	08 Sep 93		20		40/20			30		
KRL 1056810	"	" 93		20		40/20			30		
KRL 1056847	08 Sep 88	08 Sep 93		218	20/40					21	
KRL 1056848	"	" 93		174	20	20/16				33	
KRL 1056849	"	" 93		240	20	40/20					
KRL 1056850	"	" 93		240	20	40/20					
KRL 1056851	"	" 92		170	20	30/15					
KRL 1056852	"	" 94		200	20/15	16/33	16				
KRL 1056853	"	" 93		130	20	16/33	16				
KRL 1056854	"	" 93		240	20	40/20					
KRL 1056855	"	"			20	40/20					
KRL 1056856	"	"			20	40/20					
KRL 1056857	"	"			20	40/20					
KRL 1056858	"	"			20	40/20					
KRL 1056859	"	"			20	40/20					
KRL 1056860	"	"			20	40/20					
KRL 1056861	"	"			20	40/20					
KRL 1056862	"	"			20	40/20					
KRL 1056863	"	"			20	40/20					
KRL 1056864	"	" 93		240	20	40/20					

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER National Trust Company Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_

OTHER TERMS OF AGREEMENT \_\_\_\_\_

MUTUAL RESOURCES - G. DESMEULES - M. DESMEULES - W. MCNERNEY - D.B. SMITH

Agreement date: 19 August 1988		
Amt. or Nature	Date Due	Action

GROUP NAME Dixie Lake AREA Dixie Lake  
 TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake  
 PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

IDENTIFICATION AREA OF INTEREST CLS	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE ↓	ASSESSMENT WORK FILED						D TO
					DD	EM/MAG	HLEM	GEOL	DD		
KRL 1056865	08 Sep 88	08 Sep 93		240	20	40/20					
KRL 1056866	"	"		↑	20	40/20					
KRL 1056867	"	"		↓	20	40/20					
KRL 1056868	"	" 93		240	20	40/20					
KRL 1056881	"	" 95		160	20/40	40/20					
KRL 1056882	"	" 93		240	20	40/20					
KRL 1056883	"	"		↓	20	40/20					
KRL 1056884	"	"		↓	20	40/20					
KRL 1056885	"	" 93		240	20	40/20					
							ASSAY PStrip				
KRL 1056886	08 Sep 88	08 Sep 92		60	20	30/15	5				
KRL 1056887	"	" 92		60	20	30/15	5				
KRL 1056888	"	" 93		86	20/37	20/10					
KRL 1056889	"	" 96		98	20/9	40/20	31		21		
KRL 1056890	"	" 95		160	20	40/20	40				
KRL 1056891	"	" 95		138	20/1	40/20	40				
KRL 1056892	"	" 94		68	20/1	30/15	13		27		
KRL 1056893	"	" 94		90	20	30/15			40		
KRL 1057199	15 Feb 89	15 Feb 95		376	20/40					35	
KRL 1057200	"	" 93		280	20					40	

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER National Trust Company Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_

OTHER TERMS OF AGREEMENT \_\_\_\_\_

MUTUAL RESOURCES - G. DESMEULES - M. DESMEULES - W. MCNERNEY - D.B. SMITH

GROUP NAME Dixie Lake AREA Dixie Lake  
 TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake  
 PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

Agreement date: <u>19 August 1988</u>		
Amt. or Nature	Date Due	Action

IDENTIFICATION AREA OF INTEREST CLS	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE \$	ASSESSMENT WORK FILED					
					DD					
KRL 1057201	15 Feb 89	15 Feb 93		280	20/40					
KRL 1057202	"	"		↑	20/5/25					
KRL 1057203	"	"			20/40					
KRL 1057204	"	"			20/40					
KRL 1057205	"	"			20/40					
KRL 1057206	"	"			20/46					
KRL 1057207	"	"			20/40					
KRL 1057208	"	"			20/40					
KRL 1057209	"	"			20/40					
KRL 1057210	"	"			20/40					
KRL 1057211	"	"			20/40					
KRL 1057212	"	" 93		280	20/40					

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER National Trust Company Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_  
 OTHER TERMS OF AGREEMENT \_\_\_\_\_

MUTUAL RESOURCES - G. DESMEULES - M. DESMEULES - W. McNERNEY - D.B. SMITH

GROUP NAME Dixie North AREA Dixie Lake

TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake

PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

Agreement date: 19 August 1988		
Amt. or Nature	Date Due	Action
See SS-77-3 for TC-Mutual Option Agr		
Summary		

IDENTIFICATION	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE \$	ASSESSMENT WORK FILED					DAYS TOTAL	1991 \$ TOTAL	\$ EC
					DD	EM/MAX	HLEM	EM/MAX	DD			
KRL 1023072	19 AUG 88	19 AUG 93		262	20	15/31	13			79	1738	138
KRL 1023073	"	" 93		240	20/1	15/31	13			80	1760	16
KRL 1023074	"	" 94		200	26	15/31	13			100	2200	20
KRL 1023075	"	" 94		200	20/1	15/31	13		20	100	2200	20
KRL 1023076	"	" 95		138	20/40/1	40/20				121	2662	26
KRL 1023077	"	" 93		20	20/40	20/10				90	1980	30
KRL 1023087	19 AUG 88	19 AUG 94		112	20/4	15/31	13		21/2	104	2288	28
KRL 1023088	"	" 94		90	20/40	30/15				105	2310	31
KRL 1023089	"	" 95		160	20/40	40/20				120	2640	24
KRL 1023090	"	" 95		138	20/40	40/20			1	121	2662	26
KRL 1023091	"	" 93		262	20	15/31	13			79	1738	13
KRL 1023092	"	" 95		138	20/40	40/20			1	121	2662	26
KRL 1023093	"	" 95		138	20/40	40/20			1	121	2662	26
KRL 1023094	"	" 95		138	20/40	40/20			1	121	2662	26
KRL 1023095	"	" 95		160	20/40	40/20				120	2640	24
KRL 1023096	"	" 95		160	20/40	40/20				120	2640	24

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER National Trust Company Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_

OTHER TERMS OF AGREEMENT \_\_\_\_\_

MUTUAL RESOURCES LIMITED

GROUP NAME Dixie Lake Extension AREA Dixie Lake  
 TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake  
 PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

Agreement date:		
Amt. or Nature	Date Due	Action
See SS-77-3 for	TC - Mutual option	
agmt. summary		

IDENTIFICATION	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE	ASSESSMENT WORK FILED				DAYS TOTAL	1991 \$ TOTAL	\$ E
					EM	MAG	DD				
(5) KRL 1056775-779	08 SEP 88	08 SEP 92		280	40	20			60	1320	12
(5) KRL 1056780-784	"	" 92		280	40	20			60	1320	12
(5) KRL 1056785-789	"	" 92		280	40	20			60	1320	12
(2) KRL 1056790-791	"	" 92		280	40	20			60	1320	12
(1) KRL 1056811	08 SEP 88	08 SEP 92		280			20/40		60	1320	12
(1) KRL 1056812	"	" 93		240	20	10	20/30		80	1760	16
(1) KRL 1056813	"	" 92		126	20	15	20/11		67	1474	21
(1) KRL 1056814	"	" 92		170	30	15	20		65	1430	21
(1) KRL 1056815	"	" 93		240	10	20	20		80	1760	16
(1) KRL 1056816	"	" 92		170	30	15	20		65	1430	21
(1) KRL 1056817	"	" 92		280			20/139		60	1320	12
(1) KRL 1056818	"	" 92		280			20/2/14		60	1320	12
(4) KRL 1056819-822	12 "	12 " 92		280			20/40		60	1320	12
(3) KRL 1056894-896	08 SEP 88	08 SEP 93		240	40	20	20		80	1760	16

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER National Trust Company Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_

OTHER TERMS OF AGREEMENT National Trust - Trustee for Mutual Resources - Trust Agmt. dated 10 Sept. 89  
 agmt. file

MUTUAL RESOURCES LIMITED

GROUP NAME Dixie Lake Extension AREA Dixie Lake  
 TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake  
 PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

Agreement date:		
Amt. or Nature	Date Due	Action

IDENTIFICATION	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE \$	ASSESSMENT WORK FILED				Days Total	1991 \$ Total	\$
					EMMA						
(4) KRL 1107920-923	18 JUL 90	18 JUL 93		364	19/19				38	836	
(11) KRL 1107929-939	18 JUL 90	18 JUL 93		364	19/19				38		
(10) KRL 1107942-951	18 JUL 90	18 JUL 93		364	19/19				38		
(1) KRL 1107953	18 JUL 90	18 JUL 93		364	19/19				38		
(14) KRL 1107955-968	18 JUL 90	18 JUL 93		364	19/19				38		
(8) KRL 1107972-979	18 JUL 90	18 JUL 93		364	19/19				38		
(8) KRL 1107980-987	"	" 93		364	19/19				38		

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER NATIONAL TRUST COMPANY Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_  
 OTHER TERMS OF AGREEMENT \_\_\_\_\_



MUTUAL RESOURCES LIMITED

GROUP NAME Dixie Lake Extension AREA Dixie Lake  
 TOWNSHIP \_\_\_\_\_ MINING DIV. Red Lake  
 PROVINCE ONTARIO JOB NO. 15620 NTS NO. \_\_\_\_\_

Agreement date:		
Amt. or Nature	Date Due	Action

IDENTIFICATION	* DATE RECORDED	DUE DATE	UNDER EXTN.	AMOUNT DUE \$	ASSESSMENT WORK FILED				Days Total	1991 \$ Total	\$
					EMMAE						
(4) KRL 1107920-923	18 JUL 90	18 JUL 93		364	19/19				38	836	
(11) KRL 1107929-939	18 JUL 90	18 JUL 93		364	19/19				38		
(10) KRL 1107942-951	18 JUL 90	18 JUL 93		364	19/19				38		
(1) KRL 1107953	18 JUL 90	18 JUL 93		364	19/19				38		
(14) KRL 1107955-968	18 JUL 90	18 JUL 93		364	19/19				38		
(8) KRL 1107972-979	18 JUL 90	18 JUL 93		364	19/19				38		
(8) KRL 1107980-987	"	" 93		364	19/19				38		

\* Time for filing assessment work is calculated from this date.

RECORDED OWNER NATIONAL TRUST COMPANY Licence \_\_\_\_\_ Decl. of Trust on file \_\_\_\_\_ Abstracts on file \_\_\_\_\_  
 OTHER TERMS OF AGREEMENT \_\_\_\_\_

# Mutual Resources Ltd.

Suite 900, 850 West Hastings Street, Vancouver, B.C. V6C 1E1  
Phone (604) 689-3846 Fax (604) 689-3847

**BY COURIER**

May 20, 1992

Office of the Mining Recorder  
Ministry of Northern Development and Mines  
Ontario Government Building  
Box 324  
Red Lake, Ontario  
POV 2M0



Dear Sirs:

**Re: Dixie Lake Area Claims, Assessment Work**

Please find enclosed, in duplicate;

- 1) Report of Work Conducted After Recording Claim,
- 2) Statement of Costs for Assessment Credit,
- 3) List of Claims with Assessment Work Done and Applied,
- 4) Diamond Drilling Logs,
- 5) Drilling Plan Map,
- 6) Drill Hole Sections, and
- 7) Copies of Drilling Contractors Invoices.

Also enclosed is a map of the contiguous claims that comprise the property. A letter confirming that Mutual Resources Ltd. has a beneficial interest in the claims from Teck Exploration Ltd., who conducted the work, is also enclosed.

Yours truly,

MUTUAL RESOURCES LTD.

A handwritten signature in cursive script that reads "Max Holtby".

Max Holtby  
Project Geologist

Encl.

M408

Enclosures:

Plan Maps:

DWG 6722  
DWG 6607

Drill Holes P12 & P12A  
All other drill holes

Cross Sections:

DWG	Drill Holes
6683	P12, P12A
6660	DL39
L4 + 00N	DL38,31
6599	DL30,32
6600	DL33,89-3,89-15
6578b,c	DL33
6584	DL29,22,20
6582c	DL28
6582b	DL28
6582a	DL28,89-18,89-14
6578	DL89-15,3
6579	DL89-16,11,9
6581	DL89-26
6582	DL89-18,14
6583	DL89-8
6585	DL89-21
6580	DL89-13,12,
6578a	DL33,89-15,3
6571	DL89-7A,7
6573	DL89-23,6
6574	DL89-19,5
6575a,c	DL89-27
6575b	DL89-27,4
6576	DL89-25
6577	DL89-17,4,2
L24 + 00N	DL89-1

Invoice #

Drill Hole

4549	DL89-1
4587	DL89-1,2,3,4,5,6,7A,8
4657	DL89-8,9,10,11,12,13
4692	DL89-13,14,15,16,17,18
4779	DL89-19
4812	DL89-20,21,22,23
4899	DL89-25,26,27
5236	DL28
5327	DL28,29,30,31,33
5366	DL33
6031	DL38,39
921-ONT-91-3	P91-12,12A
921-ONT-91-4	P91-12A

INVOICE



**N. MORISSETTE CANADA INC.**

BOX 789 HAILEYBURY, ONTARIO POJ 1K0  
 TEL. (705) 672-3311 TELECOPIER (705) 672-2371

IN ACCOUNT WITH

Teck Explorations Limited,  
 2189 Algonquin Avenue,  
 NORTH BAY, Ontario.  
 P1B 4Z3

- DR -

INVOICE NO.	5236
CUSTOMER NO.	1051 CD
JOB NO.	4075
DEST.	069
INVOICE DATE	February 5, 1990
FOR	January 25-31/90.

To Invoice for Surface Diamond Drilling performed at the Dixie Lake Area, Ontario, during the period of January 25-31, 1990, as per agreement dated January 4, 1990.

Hole #	Size	From	To	Total	Rate	Amount
<del>DR</del> -28	BW Overburden	0'	32'	32'	\$14.50	\$ 464.00
	BQ Drilling	32'	600'	568'	\$14.50	8,236.00
	BQ Drilling	600'	847'	247'	\$15.00	<u>3,705.00</u>
			847 ft.			

SUB-TOTAL \$12,405.00

Transportation and Moves:

Mobilization & Demobilization as per clause 3 (f) 1.

5 ( 0 - 600') Acid tests	@ \$ 43.50 each	6,250.00
2 (600 - 1000') Acid tests	@ \$ 45.00 each	217.50
		<u>90.00</u>
<b>TOTAL</b>		<b>\$ <u>18,962.50</u></b>

"DIXIE CREEK PROJECT"

*OC 1/26/90*

January 25-31/90 BQ (38).

INVOICE

**N. MORISSETTE CANADA INC.**

BOX 789 HAILEYBURY, ONTARIO POJ 1K0  
 TEL. (705) 672-3311 TELECOPIER (705) 672-2371

IN ACCOUNT WITH

Teck Explorations Limited,  
 2189 Algonquin Avenue,  
 NORTH BAY, Ontario.  
 P1B 4Z3

- DR -

INVOICE NO.	5327
CUSTOMER NO.	1051 CD
JOB NO.	4075
DEST.	069
INVOICE DATE	February 22, 1990
FOR	February 1-15/90

To Invoice for Surface Diamond Drilling performed at the Dixie Lake Area, Ontario during the period of February 1-15/90 as per agreement dated January 4, 1990.

Hole #	Size	From	To	Total	Rate	Amount
DL-28	BQ Drilling	847'	1000'	153'	\$15.00	\$2,295.00
	BQ Drilling	1000'	1287'	287'	\$16.25	4,663.75
DL-29	BW Overburden	0'	22'	22'	\$14.50	319.00
	BQ Drilling	22'	600'	578'	\$14.50	8,381.00
	BQ Drilling	600'	717'	117'	\$15.00	1,755.00
DL-30	BW Overburden	0	22'	22'	\$14.50	319.00
	BQ Drilling	22'	297'	275'	\$14.50	3,987.50
DL-31	BW Overburden	0	22'	22'	\$14.50	319.00
	BQ Drilling	22'	277'	255'	\$14.50	3,697.50
DL-32	BW Overburden	0	50'	50'	\$14.50	725.00
	BW Overburden	50'	52'	2'	\$20.50	41.00
	BQ Drilling	52'	287'	235'	\$14.50	3,407.50
DL-33	BW Overburden	0	50'	50'	\$14.50	725.00
	BW Overburden	50'	72'	22'	\$20.50	451.00
	BQ Drilling	72'	600'	528'	\$14.50	7,656.00
	BQ Drilling	600'	923'	323'	\$15.00	4,845.00
				2941'	SUB TOTAL	\$43,587.25

Material Left in Hole:

#DL-28	3 (10 ft. length) BW Casing	@ \$107.50 each	322.50		
	1 ( 2 ft. length) BW Casing	@ \$ 35.50 each	35.50		
	1 BW Casing Shoe	@ \$205.00 each	205.00		
			Plus 15% (\$563.00)	84.45	
				<u>647.45</u>	
				SUB TOTAL	\$44,234.70

\* CONTINUED \*

.../2

February 1-15/90: BQ (F4)

INVOICE

**N. MORISSETTE CANADA INC.**

BOX 789 HAILEYBURY, ONTARIO P0J 1K0  
 TEL. (705) 672-3311 TELECOPIER (705) 672-2371

IN ACCOUNT WITH

Teck Explorations Limited,  
 2189 Algonquin Avenue,  
 NORTH BAY, Ontario.  
 P1B 4Z3

- DR -

INVOICE NO.	5327
CUSTOMER NO.	1051 CD
JOB NO.	4075
DEST.	069
INVOICE DATE	February 22, 1990
FOR	February 1-15/90

Balance forward ..... \$47,127.62

Reaming: due to bad ground:

#DL-28	8 Man hours	@ \$30.25 per man hour	242.00	
	4 Machine hours	@ \$25.00 per hour	100.00	
		Plus 15% (\$342.00)	<u>51.30</u>	393.30

Moving Between Drill Sites: Distance >1500 ft. to

#DL-33	48 Man hours	@ \$30.25 per hour	1,452.00	
(1mile move)	11 Tractor hours	@ \$45.00 per hour	495.00	
		Plus 15% (\$1,947.50)	292.05	
	Less: N. M. C. I. Credit Applicable		<u>(350.00)</u>	1,889.05

150 BQ Core Trays	@ \$ 5.25 each	787.50	
items received by Jim Jansen Jan. 31, 1990			
150 BQ Core Trays	@ \$ 5.25 each	<u>787.50</u>	<u>1,575.00</u>
items received by Jim Jansen Feb. 9, 1990			

TOTAL \$50,984.97

INVOICE

**N. MORISSETTE CANADA INC.**

BOX 789 HAILEYBURY, ONTARIO POJ 1K0  
 TEL. (705) 672-3311 TELECOPIER (705) 672-2371

IN ACCOUNT WITH

Teck Explorations Limited,  
 2189 Algonquin Avenue,  
 NORTH BAY, Ontario.  
 P1B 4Z3

- DR -

INVOICE NO.	5327
CUSTOMER NO.	1051 CD
JOB NO.	4075
DEST.	069
INVOICE DATE	February 22, 1990
FOR	February 1-15/90

Balance forward ..... \$44,234.70

Material left in hole - continued

#DL-29	2 (10 ft. length) BW Casing	@ \$107.50 each	215.00	
	1 ( 2 ft. length) BW Casing	@ \$ 35.50 each	35.50	
	1 BW Casing Shoe	@ \$205.00 each	205.00	
		Plus 15% (\$455.50)	<u>68.33</u>	523.83
#DL-30	2 (10 ft. length) BW Casing	@ \$107.50 each	215.00	
	1 ( 2 ft. length) BW Casing	@ \$ 35.50 each	35.50	
	1 BW Casing Shoe	@ \$205.00 each	205.00	
		Plus 15% (\$455.50)	<u>68.33</u>	523.83
#DL-31	2 (10 ft. length) BW Casing	@ \$107.50 each	215.00	
	1 ( 2 ft. length) BW Casing	@ \$ 35.50 each	35.50	
	1 BW Casing Shoe	@ \$205.00 each	205.00	
		Plus 15% (\$455.50)	<u>68.33</u>	523.83
9 ( 0 - 600')	Acid Tests	@ \$ 43.50 each	391.50	
1 (600 - 1000')	Acid Test	@ \$ 45.00 each	<u>45.00</u>	436.50

Sperry Sun Testing:

#DL-28	10 Man hours	@ \$ 30.25 per man hour	302.50	
	5 Machine hours	@ \$ 25.00 per hour	125.00	
		Plus 15% (\$427.50)	<u>64.13</u>	491.63
#DL-29	3 Man hours	@ \$ 30.25 per man hour	90.75	
	1½ Machine hours	@ \$ 25.00 per hour	37.50	
		Plus 15% (\$128.25)	<u>19.24</u>	147.49
#DL-33	5 Man hours	@ \$ 30.25 per man hour	151.25	
	2½ Machine hours	@ \$ 25.00 per hour	62.50	
		Plus 15% (\$213.75)	<u>32.06</u>	<u>245.81</u>

SUB TOTAL \$47,127.62

\* CONTINUED \*

.../3

February 1-15/90: BQ (F4)

INVOICE

**N. MORISSETTE CANADA INC.**

BOX 789 HAILEYBURY, ONTARIO POJ 1K0  
 TEL. (705) 672-3311 TELECOPIER (705) 672-2371

*OK 1562*

IN ACCOUNT WITH

Teck Explorations Limited,  
 2189 Algonquin Avenue,  
 NORTH BAY, Ontario.  
 P1B 4Z3  
 - DR -

INVOICE NO.	5366
CUSTOMER NO.	1051 CD
JOB NO.	4075
DEST.	069
INVOICE DATE	March 5, 1990
FOR	February 16-28, 1990

To Invoice for Surface Diamond Drilling performed at the Dixie Lake Area, Ontario during the period of February 16-28/90 as per agreement dated January 4, 1990

Hole #	Size	From	To	Total	Rate	Amount
DL-33	BQ Drilling	923'	1000'	77'	\$15.00	\$1,155.00 ✓
	BQ Drilling	1000'	1347'	347'	\$16.25	5,638.75 ✓
DL-34	BW Overburden	0	50'	50'	\$14.50	725.00 ✓
	BW Overburden	50'	52'	2'	\$20.50	41.00 ✓
	BQ Drilling	52'	236'	184'	\$14.50	2,668.00 ✓
DL-35	BW Overburden	0	50'	50'	\$14.50	725.00 ✓
	BW Overburden	50'	62'	12'	\$20.50	246.00 ✓
	BQ Drilling	62'	305'	243'	\$14.50	3,523.50 ✓
DL-36	BW Overburden	0	16'	16'	\$14.50	232.00 ✓
	BQ Drilling	16'	336'	320'	\$14.50	4,640.00 ✓
DL-37	BW Overburden	0	42'	42'	\$14.50	609.00 ✓
	BQ Drilling	42'	306'	264'	\$14.50	3,828.00 ✓
				1607'	SUB TOTAL	<u>\$24,031.25</u> ✓ ck

Materials Left in Hole:

#DL-33	7 (10 ft. length) BW Casing ✓	@ \$107.50 each	752.50	
	1 (2 ft. length) BW Casing ✓	@ \$ 35.50 each	35.50	
	1 BW Casing Shoe ✓	@ \$205.00 each	205.00	
		Plus 15% (\$993.00)	<u>148.95</u>	1,141.95
#DL-34	5 (10 ft. length) BW Casing ✓	@ \$107.50 each	537.50	
	1 (2 ft. length) BW Casing ✓	@ \$ 35.50 each	35.50	
	1 BW Casing Shoe ✓	@ \$205.00 each	205.00	
		Plus 15% (\$778.00)	<u>116.70</u>	894.70

SUB TOTAL \$26,067.90

\* CONTINUED \*

.../2

February 16-28/90 (F4) BQ - Dixie Lake -



INVOICE

**N. MORISSETTE CANADA INC.**

BOX 789 HAILEYBURY, ONTARIO POJ 1K0  
 TEL. (705) 672-3311 TELECOPIER (705) 672-2371

IN ACCOUNT WITH

Teck Explorations Limited,  
 2189 Algonquin Avenue,  
 NORTH BAY, Ontario.  
 P1B 4Z3

- DR -

INVOICE NO.	5366
CUSTOMER NO.	1051 CD
JOB NO.	4075
DEST.	069
INVOICE DATE	March 5, 1990
FOR	February 16-28, 1990

Balance Forward ..... \$ 26,067.90

Materials left in Hole - (continued)

#DL-36	✓ 1 (10 ft. length) BW Casing	@ \$107.50 each	107.50	
	3 ( 2 ft. length) BW Casing	@ \$ 35.50 each	106.50	
	✓ 1 BW Casing Shoe	@ \$205.00 each	205.00	
		Plus 15% (\$419.00)	<u>62.85</u>	481.85

#DL-37	✓ 4 (10 ft. length) BW Casing	@ \$107.50 each	430.00	
	✓ 1 ( 2 ft. length) BW Casing	@ \$ 35.50 each	35.50	
	1 BW Casing Shoe	@ \$205.00 each	205.00	
		Plus 15% (\$670.50)	<u>100.58</u>	771.08

Pulling Casing Charges:

Hole #35	2 Man hours ✓	@ \$30.25 per man hour	60.50	
	1 Machine hour ✓	@ \$25.00 per hour	25.00	
		Plus 15% (\$85.50)	<u>12.83</u>	98.33

Sperry Sun Testing:

#DL-33	10 Man hours ✓	@ \$30.25 per man hour	302.50	
	5 Machine hours ✓	@ \$25.00 per hour	125.00	
		Plus 15% (\$427.50)	<u>64.13</u>	491.63
	✓ 11 (0 - 600') Acid Tests	@ \$43.50 each		478.50

Waterline Charges -

Length of line (2800 ft.)				
#DL-36	525 lbs. of Propane	@ \$ 0.45 per lb.	236.25	
		Plus 15% (\$236.25)	<u>35.44</u>	271.69

SUB TOTAL 28,660.98

\* CONTINUED \*

INVOICE

**N. MORISSETTE CANADA INC.**

BOX 789 HAILEYBURY, ONTARIO P0J 1K0  
 TEL. (705) 672-3311 TELECOPIER (705) 672-2371

IN ACCOUNT WITH

Teck Explorations Limited,  
 2189 Algonquin Avenue,  
 NORTH BAY, Ontario.  
 P1B 4Z3

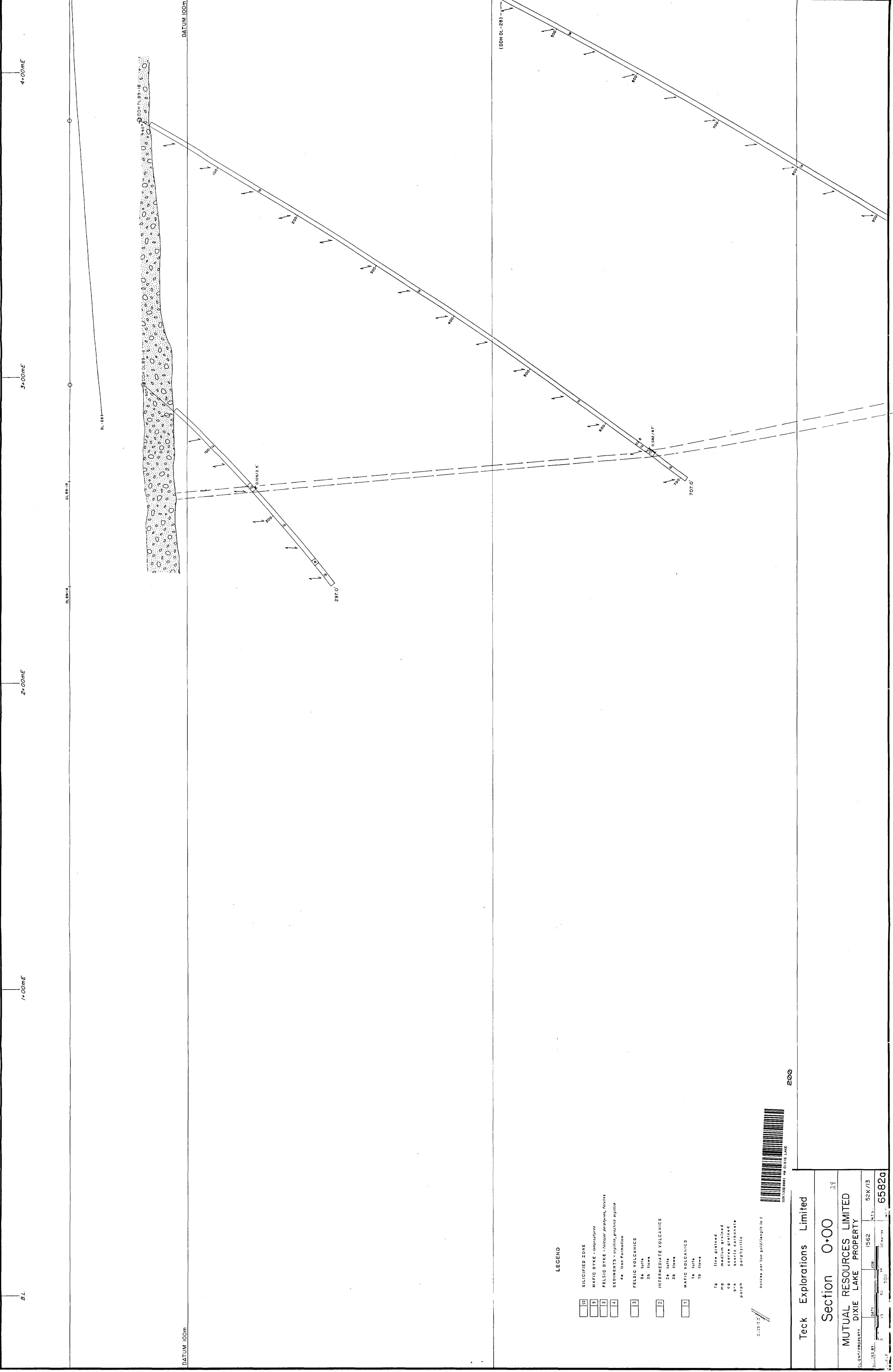
- DR -

INVOICE NO.	5366
CUSTOMER NO.	1051 CD
JOB NO.	4075
DEST.	069
INVOICE DATE	March 5, 1990
FOR	February 16-28, 1990

Balance Forward ..... \$ 28,660.98

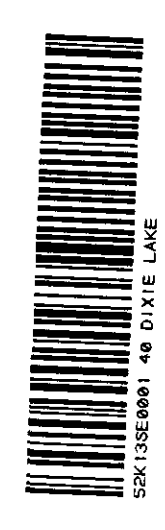
Move Between Drill Site: Distance > 1500 ft.

To Hole #DL-34: 39 Man hours	@ \$ 30.25 per man hour	1,179.75	
(4000 ft. move) 8 Tractor hours	@ \$ 45.00 per hour	360.00	
	Plus 15% (\$1,539.75)	230.96	
Less: N. M. C. I. credit applicable		(350.00)	1,420.71
To Hole #DL-36: 26 Man hours	@ \$ 30.25 per man hour	786.50	
(1800 ft. move) 5 Tractor hours	@ \$ 45.00 per hour	225.00	
	Plus 15% (\$1,011.50)	151.73	
Less: N. M. C. I. credit applicable		(350.00)	813.23
To Hole #DL-37: 35 Man hours	@ \$ 30.25 per man hour	1,058.75	
(1 mile move) 10 Tractor hours	@ \$ 45.00 per hour	450.00	
	Plus 15% (\$1,508.75)	226.31	
Less: N. M. C. I. credit applicable		(350.00)	1,385.06
	TOTAL		<u>\$32,279.98</u>



LEGEND

- 10 SILICIFIED ZONE
- 9 MAGIC DYKE - *amphibolite*
- 8 FELSIC DYKE - *trichite, perthite, quartz*
- 7 SEDIMENTS - *calcite, pyrite, quartz, apatite*
- 6 Iron Formation
- 5 FELSIC VOLCANICS
- 4a tufts
- 4b flow
- 4c flow
- 4d flow
- 4e flow
- 4f flow
- 4g flow
- 4h flow
- 4i flow
- 4j flow
- 4k flow
- 4l flow
- 4m flow
- 4n flow
- 4o flow
- 4p flow
- 4q flow
- 4r flow
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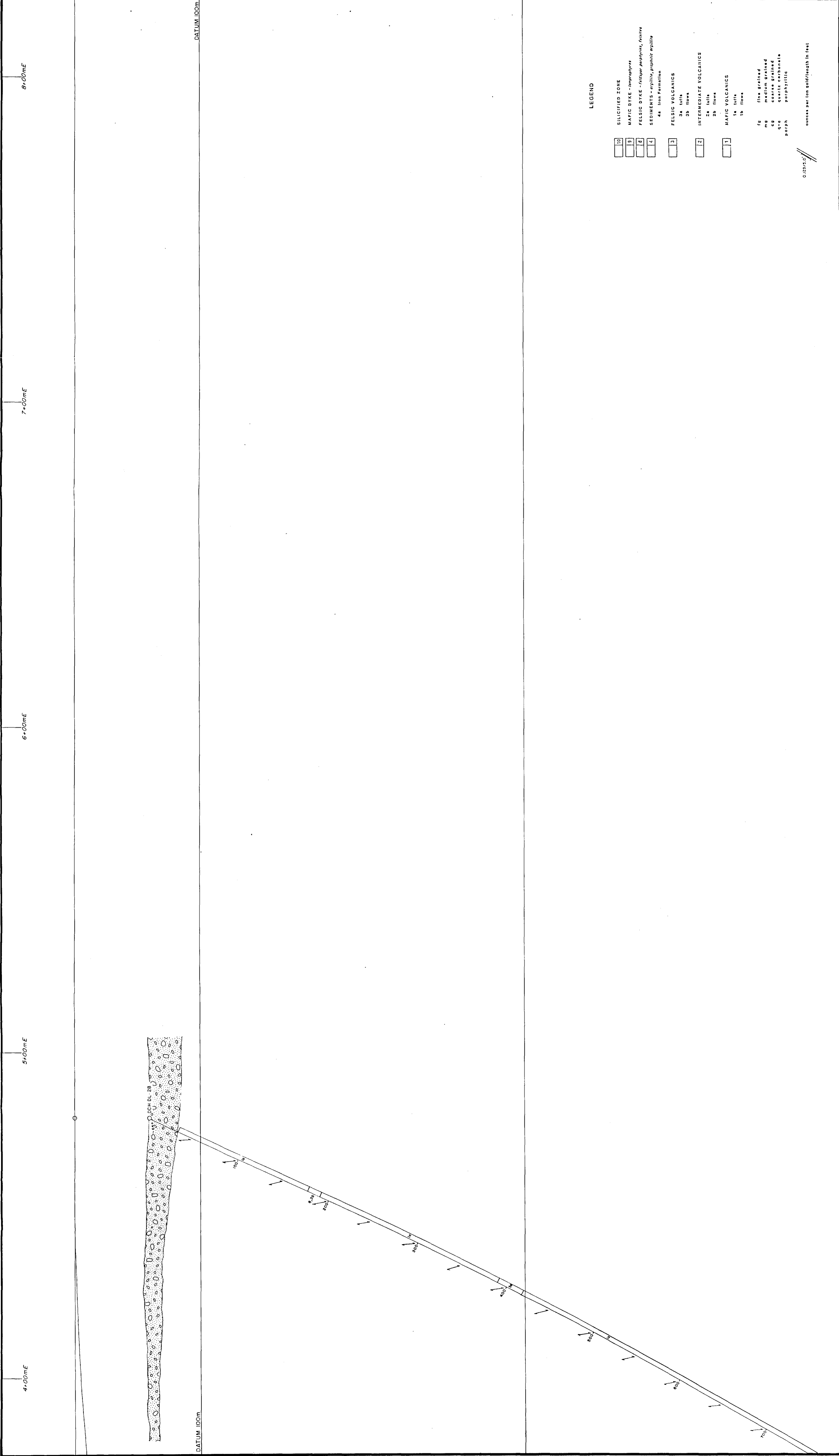


Teck Explorations Limited

Section 0+00

MUTUAL RESOURCES LIMITED  
DIXIE LAKE PROPERTY

CLIENT/PROJECT: 52K/13  
DATE: 1562  
JOB: 52K/13  
NET: 6582q



LEGEND

- 10 SILICIFIED ZONE
- 9 MAGIC DYKE - *hematite*
- 8 FELSIC DYKE - *trigonal, amphibole, feldspar*
- 7 SEDIMENTS - *argillite, graphitic argillite*
- 6 Iron Formation
- 5 FELSIC VOLCANICS
  - 5a tuffs
  - 5b flows
- 4 INTERMEDIATE VOLCANICS
  - 4a tuffs
  - 4b flows
- 3 MAFIC VOLCANICS
  - 3a tuffs
  - 3b flows
- 2a fine grained
- 2b medium grained
- 2c coarse grained
- 2d porphyritic
- 2e porphyritic

numbers per ton solid/length in feet

Teck Explorations Limited

Section 0+00

MUTUAL RESOURCES LIMITED  
DIXIE LAKE PROPERTY

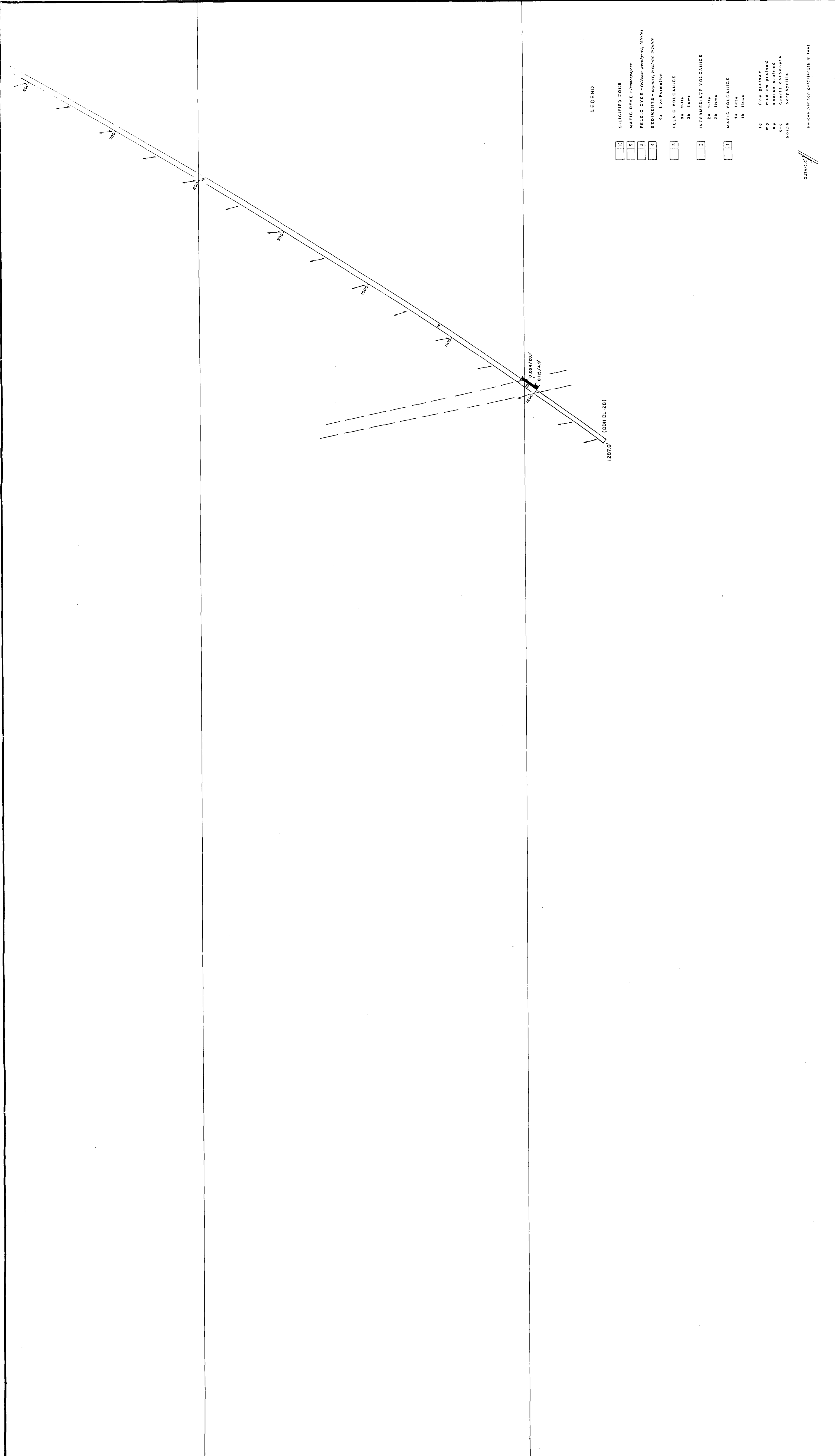
LOGGED BY: DATE: 1962

SCALE: 1" = 500'

52K/13

6582b





LEGEND

- 10 SILICIFIED ZONE
- 9 MAGIC DYKE - lamprophyre
- 8 FELSIC DYKE - felsic porphyry, rhyolite
- 7 SEDIMENTS - argillite, phyllite, argillite
- 6 Iron formation
- 5 FELSIC VOLCANICS
  - 5a tuffe
  - 5b flow
- 4 INTERMEDIATE VOLCANICS
  - 4a tuffe
  - 4b flow
- 3 MAGIC VOLCANICS
  - 3a tuffe
  - 3b flow
- 2
- 1

0.04/201  
0.15/49

Teck Explorations Limited

Section 0+00

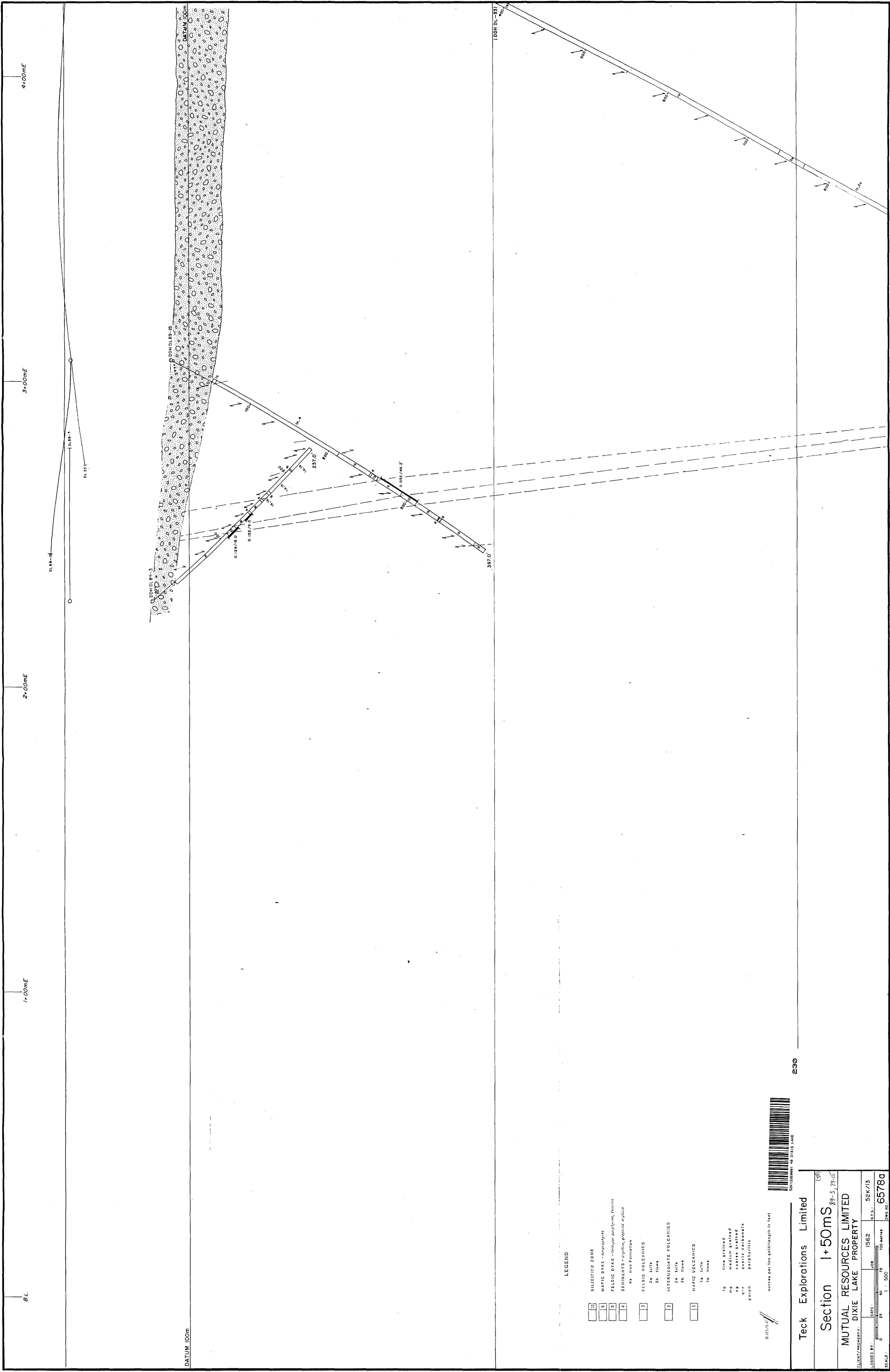
MUTUAL RESOURCES LIMITED  
DIXIE LAKE PROPERTY

CLIENT/PROPERTY: DATE: 15/62 N.T.S. 52K/13

LOGGED BY: SCALE: 0 25 50 100 meters

6582C





B.L.

1+00mE

2+00mE

3+00mE

4+00mE

DATUM 100m

LEGEND

- 15 SILICIFIED ZONE
- 9 MAFIC DYKE - *lanipolophy*
- 8 FELSIC DYKE - *Andean porphyry, Andean*
- 4 SEDIMENTS - *argillite, graphite argillite*  
4a Iron Formation
- 3 FELSIC VOLCANICS  
2a *Andean*  
2b *Andean*
- 2 INTERMEDIATE VOLCANICS  
2a *Andean*  
2b *Andean*
- 1 MAFIC VOLCANICS  
1a *Andean*  
1b *Andean*
- 10 fine grained  
11 medium grained  
12 coarse grained  
13 quartz carbonate  
14 porphyritic

0.025g/g ounces per ton gold/length in test



SECTION 148 DIXIE LAKE

230

Teck Explorations Limited

Section 1+50mS

MUTUAL RESOURCES LIMITED  
DIXIE LAKE PROPERTY

CLIENT/PROPERTY: 89-3, 89-15  
JOB: 1562  
DATE: 52K/13  
SCALE: 1" = 500'  
DRAWING NO.: 6578a

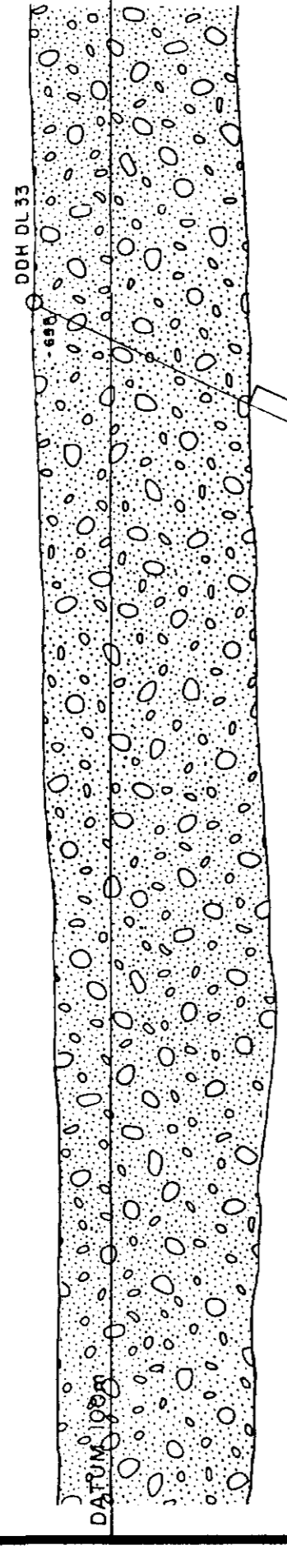
4+00mE

5+00mE

6+00mE

7+00mE

8+00mE



DATUM 100m

LEGEND

- 10 SILICIFIED ZONE
- 9 MAGIC DYKE - *impurely*
- 8 FELSIC DYKE - *tridacite porphyry, tridacite*
- 7 SEDIMENTS - *crinoid, porphyry, apatite*
- 6 Iron formation
- 3 FELSIC VOLCANICS
  - 3a tuffa
  - 3b flow
- 2 INTERMEDIATE VOLCANICS
  - 2a tuffa
  - 2b flow
- 1 MAGIC VOLCANICS
  - 1a tuffa
  - 1b flow
- 10 fine grained
- mg medium grained
- cg coarse grained
- cc coarse crystalline
- porph porphyritic

0.125/500  
contours per 100m gradient in feet

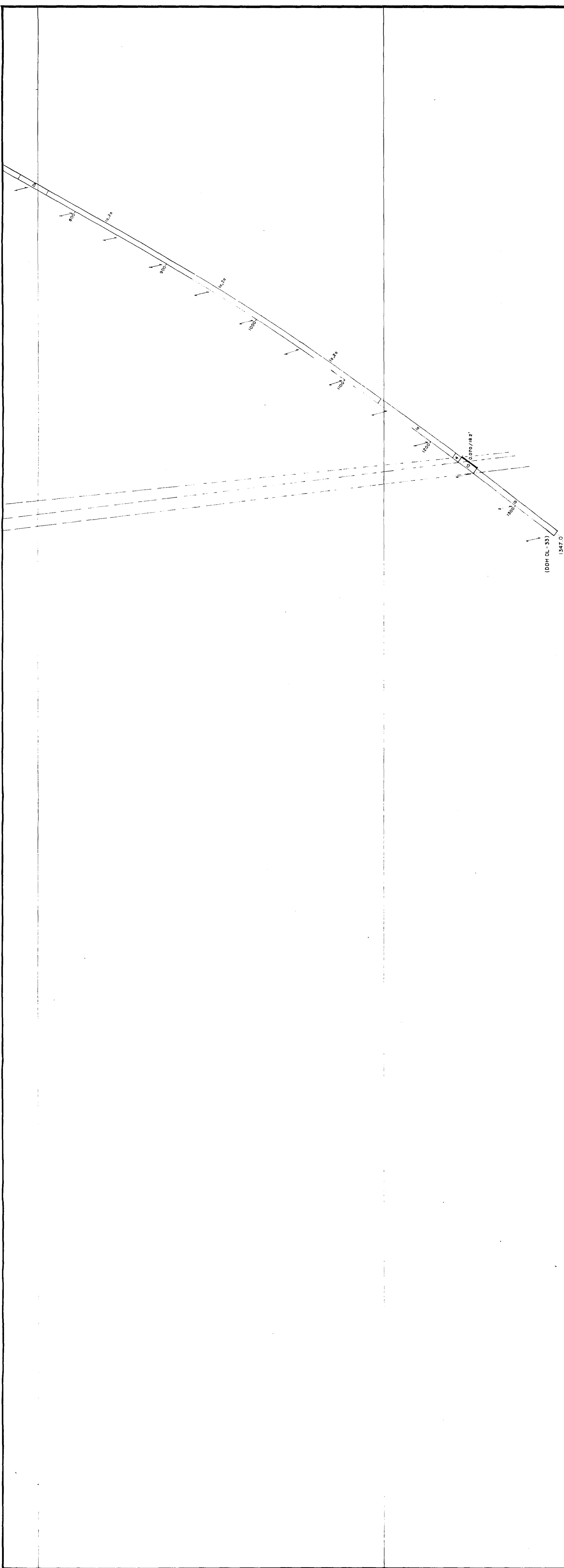
Teck Explorations Limited

Section 1+50mS

MUTUAL RESOURCES LIMITED  
DIXIE LAKE PROPERTY

CLIENT/PROPERTY	DATE	JOB	NTS.
MUTUAL RESOURCES LIMITED DIXIE LAKE PROPERTY	1562	52N/13	33
LOGGED BY	SCALE	0 20 40 500 FT	6578D





LEGEND

- SILICIES ZONE
- MAFIC DYKE - *1000/1000'*
- FELSIC DYKE - *1000/1000'*
- SEDIMENTS - *1000/1000'*
- 4a Iron formation
- FELSIC VOLCANICS
- 2a Igneous
- 2b Igneous
- INTERMEDIATE VOLCANICS
- 2a Igneous
- 2b Igneous
- MAFIC VOLCANICS
- 1a Igneous
- 1b Igneous
- 1c Igneous
- 1d Igneous
- 1e Igneous
- 1f Igneous
- 1g Igneous
- 1h Igneous
- 1i Igneous
- 1j Igneous
- 1k Igneous
- 1l Igneous
- 1m Igneous
- 1n Igneous
- 1o Igneous
- 1p Igneous
- 1q Igneous
- 1r Igneous
- 1s Igneous
- 1t Igneous
- 1u Igneous
- 1v Igneous
- 1w Igneous
- 1x Igneous
- 1y Igneous
- 1z Igneous

Contours per 100m (contour interval)

Teck Explorations Limited

Section I+50ms 33

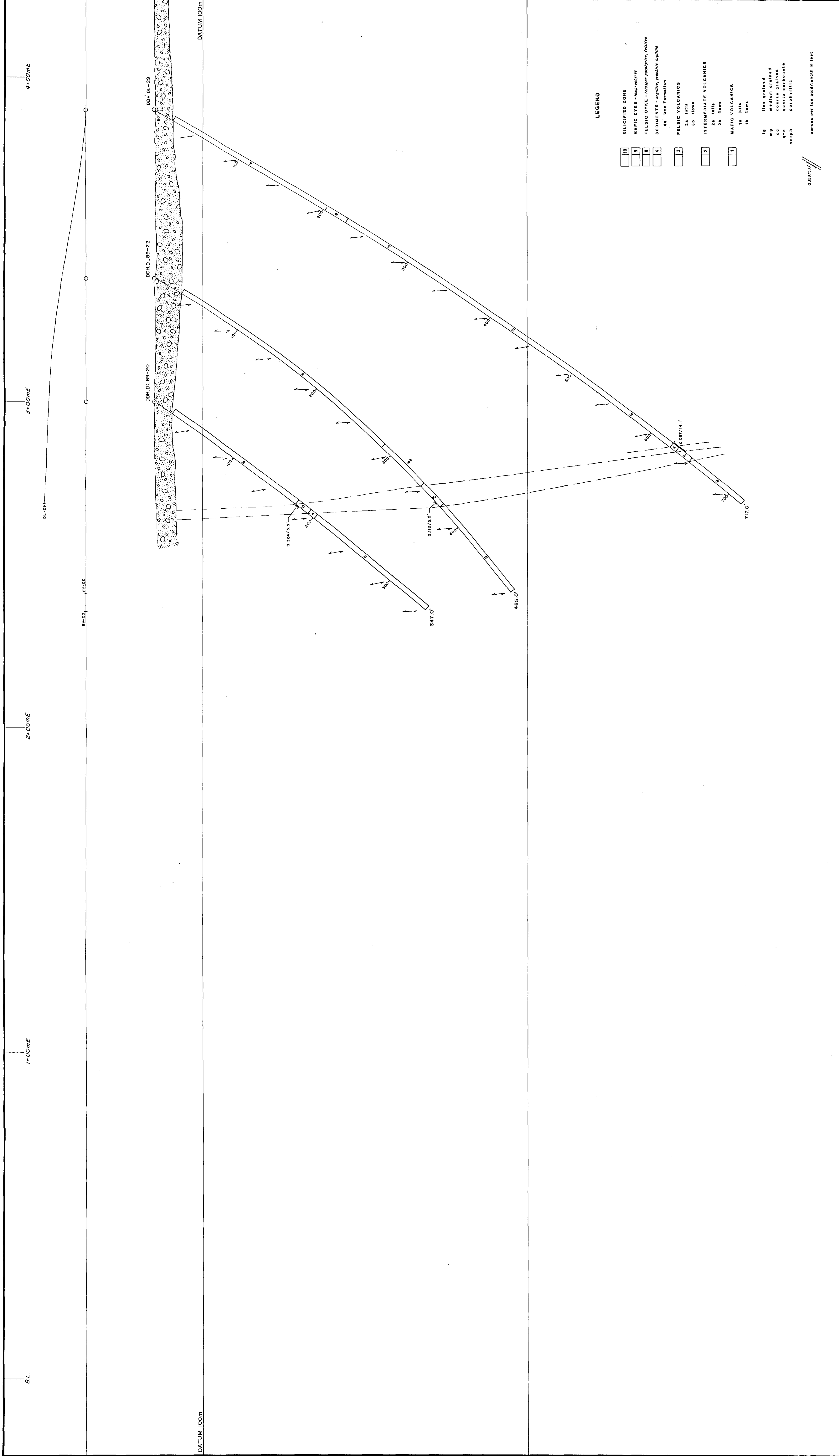
MUTUAL RESOURCES LIMITED  
DIXIE LAKE PROPERTY

CLIENT/PROPERTY: DATE: 1562 NTS: 52K/13

LOADED BY: 0 25 50 100 METERS SCALE: 1:500

6578C





Teck Explorations Limited

Section 1+50mN

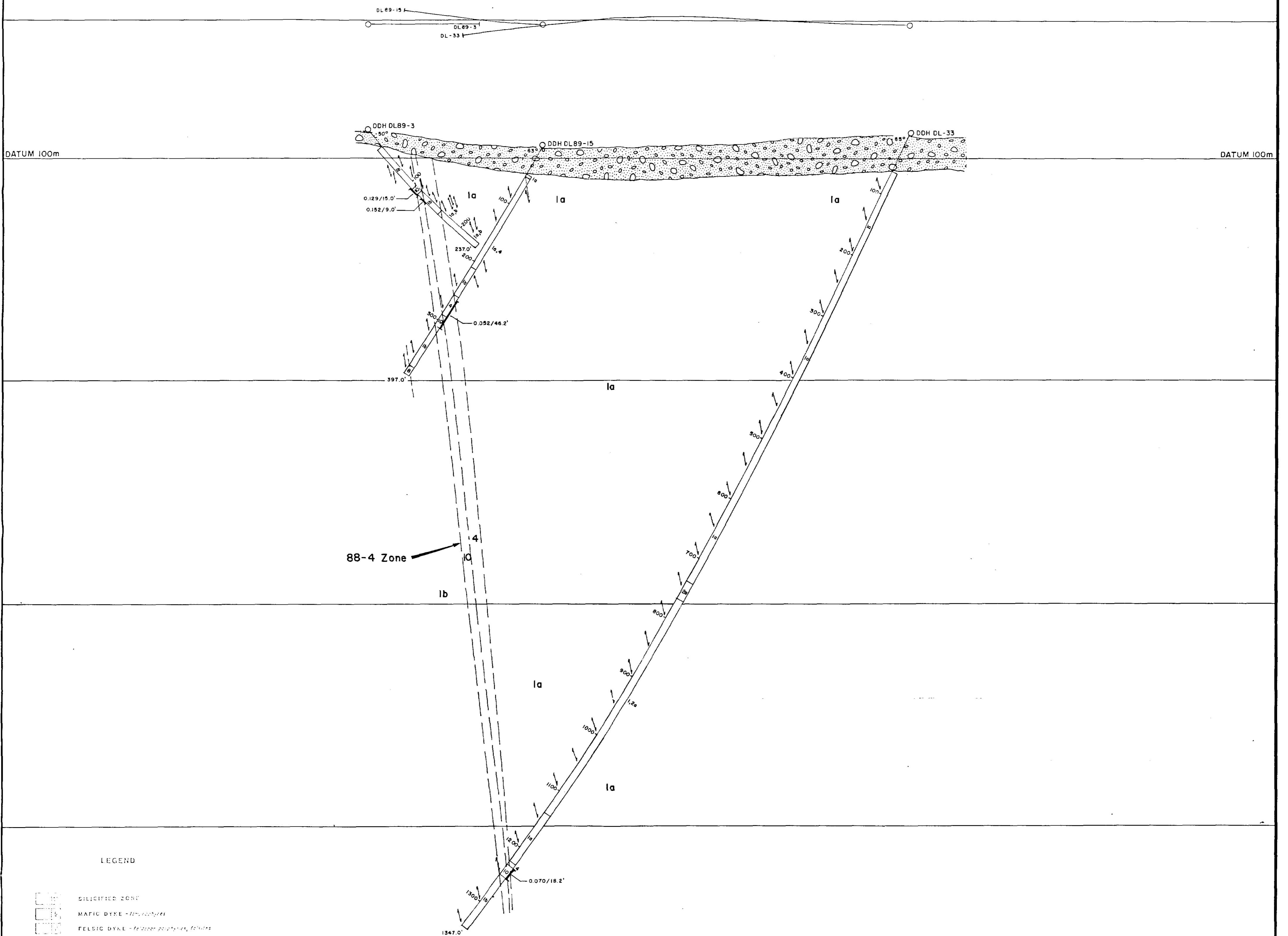
MUTUAL RESOURCES LIMITED  
DIXIE LAKE PROPERTY

DATE: 15/62  
JOB: 52N/15  
N.T.S.  
JOB SHEET: 6584

SCALE: 0 25 50 100 METERS

- LEGEND**
- 10 SILICIFIED ZONE
  - 9 MAFIC DYKE - *trondhjemite*
  - 8 FELSIC DYKE - *trondhjemite, felsite*
  - 4 SEDIMENTS - *argillite, granitic gneiss*
  - 4a Iron formation
  - 3 FELSIC VOLCANICS
    - 3a tuffe
    - 3b flows
  - 2 INTERMEDIATE VOLCANICS
    - 2a tuffe
    - 2b flows
  - 1 MAFIC VOLCANICS
    - 1a tuffe
    - 1b flows
  - fg fine grained
  - mg medium grained
  - cg coarse grained
  - cc crystalline
  - po porphy
  - ps porphyritic
- ounces per ton gold/length in feet

1+00mE      2+00mE      3+00mE      4+00mE      5+00mE      6+00mE



LEGEND

- SILICIFIED ZONE
  - MAFIC DYKE - *flow, sills*
  - FELSIC DYKE - *flow, sills, dykes*
  - SEDIMENTS - *sp. sh., siltstone, shale*
    - 4a thin lamination
  - FELSIC VOLCANICS
    - 2a tuffs
    - 2b flows
  - INTERMEDIATE VOLCANICS
    - 2a tuffs
    - 2b flows
  - MAFIC VOLCANICS
    - 1a tuffs
    - 1b flows
- 1a fine grained  
 1b medium grained  
 2a coarse grained  
 2b quartz carbonate  
 2c porphyritic

Teck Explorations Limited			
<b>Section 1+50mS</b>			
MUTUAL RESOURCES LIMITED			
DIXIE LAKE PROPERTY			
CLIENT/PROPERTY:	DATE: FEB./1990	JOB: 1562	N.T.S.: 52K/13
LOGGED BY:	DATE:	JOB:	N.T.S.:
SCALE: 100 50 0 50 100 metres			DWG. NO. 6600
1 : 1000			



52K135E0001 40 DIXIE LAKE

1+00mE

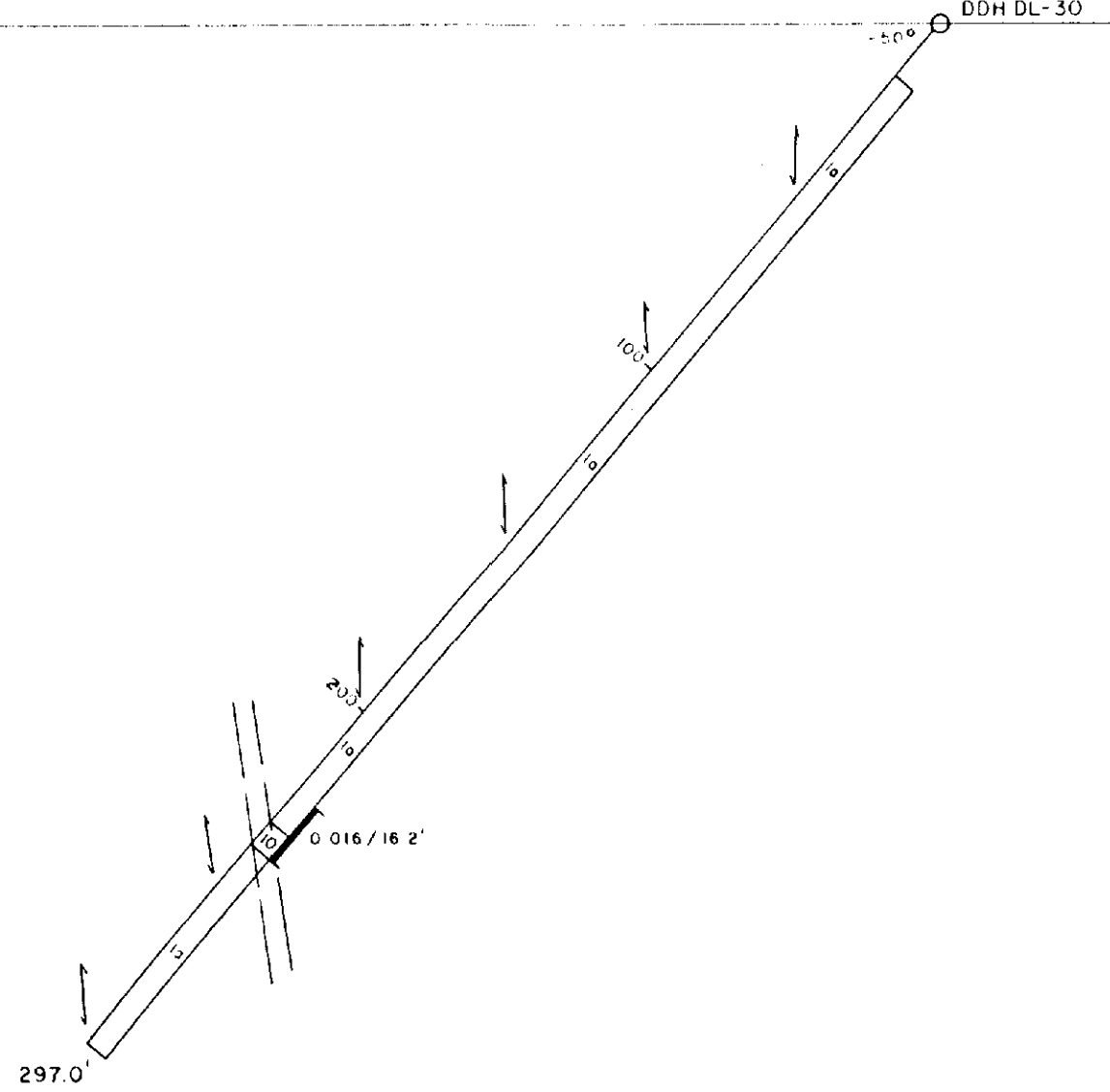
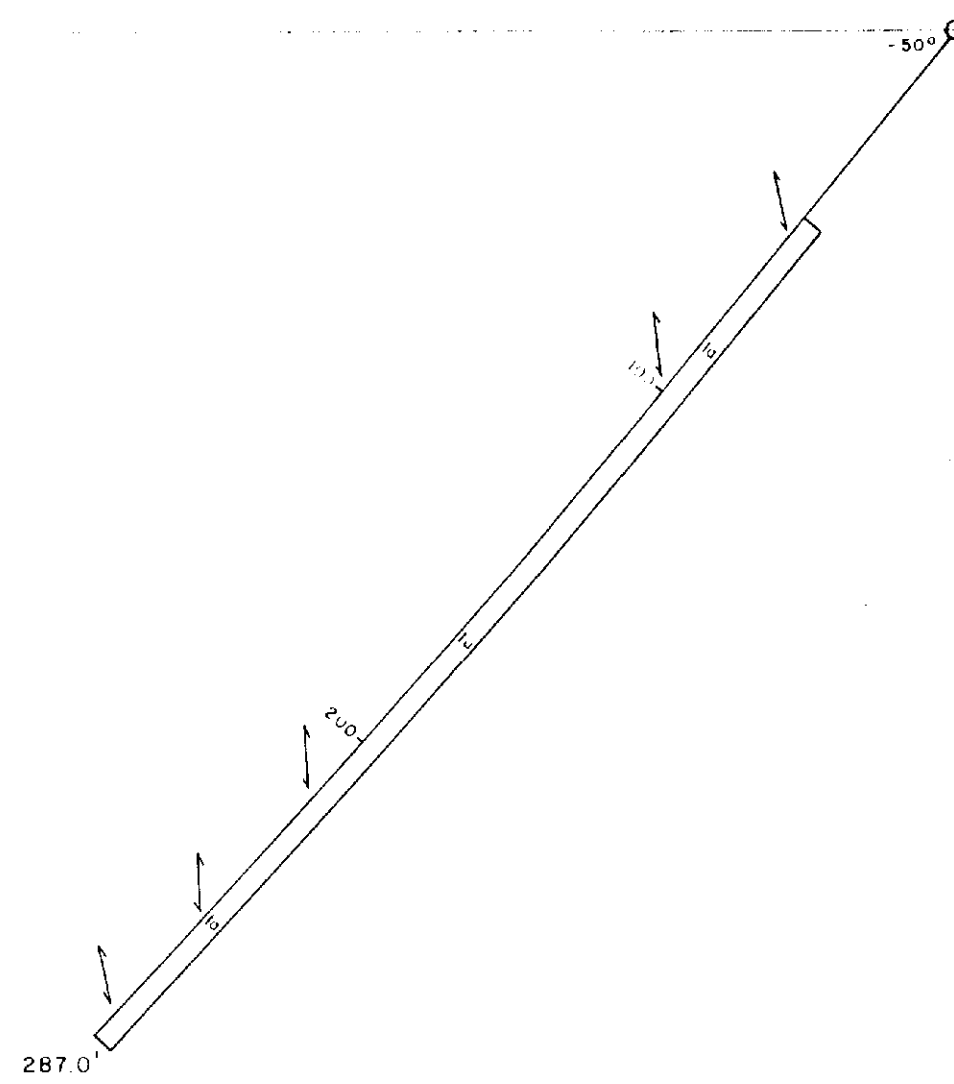
2+00mE

3+00mE

DATUM 10-m

DDH DL-32

DDH DL-30



Teck Explorations Limited

Section 2+50mN

MUTUAL RESOURCES LIMITED  
DIXIE LAKE PROPERTY

DATE: FEB. / 1990

JOB: 1562

N.T.S.: 52K/13

SCALE: 0 25 50 75 100 feet  
1" = 500'

P.W.C. NO.: 6599



52K13SE0001 40 DIXIE LAKE