



52K13SE0003 39 DIXIE LAKE

DIAMOND DRILLING

010

AREA: DIXIE LAKE

REPORT NO: 39

WORK PERFORMED FOR: NATIONAL TRUST COMPANY

(TECK EXPLORATIONS LTD.)

RECORDED HOLDER: SAME AS ABOVE

: OTHER

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
1107929	P-12	41 m	JULY/91	(1)
"	P-12A	258 m	JULY-AUG/91	"

NOTE:

(1) W9220.00025, FILED OCTOBER/92.

TECK EXPLORATIONS LIMITED DIAMOND DRILL LOG

Hole P-12
Sheet 1 of 1

Job <u>15690</u> N.T.S. <u>52 K/13</u> Property <u>Pakwash/Pakwash Extension</u> Township <u>Dixie Lake Area</u> Location: Line <u>I38+00mW</u> Station <u>1+85mN</u> Elevation _____ Logged <u>R.O. Page</u>	Objective <u>Test IP Anomaly</u> Drilling Co. <u>St. Lambert</u> Commenced <u>July 29, 1991</u> Completed <u>July 30, 1991</u> Length <u>41.0m</u>	Core Location <u>Pakwash Camp</u> Distance to Water <u>1600 m</u> Casing Lost <u>27 m BW, plus tri-cone assembly</u> Core Size <u>BQ</u>	Tests At Collar Dip Azimuth <u>-50°</u> <u>333°</u> _____ _____ _____ _____ _____ _____ _____
Remarks <u>Hole abandoned. Re-collared 1 m south as P-12A.</u> <u>Claim: KRL 1107929</u>			

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
0.00	41.00	OVERBURDEN	Casing. Rods broke at 12 m when hole down to 41 m. Attempt to fish was not successful. Lost 27 m BW casing with tri-cone. Re-collared 1 m south at -55° as P-12A.									
	41.00	END OF HOLE										

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

Hole P-12A
Sheet 1 of 11

Job <u>15690</u> <u>N.T.S.</u>	Objective <u>Test IP Anomaly</u>	Core Location <u>Pakwash Camp</u>	Tests Dip Azimuth At Collar -55° 333° 30m -55° -- 60m -55° -- 90m -55° -- 120m -54.5° -- 150m -55° -- 180m -53.5° -- 210m -52.5° -- 240m -50° --
Property <u>Pakwash/Pakwash Extension</u>	Drilling Co. <u>St. Lambert</u>	Distance to Water <u>1600 m</u>	
Township <u>Dixie Lake Area</u>	Commenced <u>July 30, 1991</u>	Casing Lost <u>14 m BW</u>	
Location: Line <u>I.38+00mW</u>	Completed <u>August 2, 1991</u>	Core Size <u>BQ</u>	
Station <u>1+84mN</u>	Length <u>258.0m</u>		
Elevation _____			
Logged <u>R.O. Page</u>			
Remarks <u>South portion of IP anomaly corresponds to mineralized/pyritic porphyry sills between 90.60 - 113.60 m. Northern (main) IP caused by pyritic volcanics at 201.90 - 206.70 m.</u>			
<u>Claim: KRL 1107929</u>			

Depth (ft)		Rock Type	Description	Sample No.	From	To	Length (ft)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
0.00	11.70	OVERBURDEN	Casing.									
11.70	23.60	PORPHYRITIC GRANO-DIORITE	Medium gray, mottled, weakly to moderately foliated granodiorite intrusive. Composed of 10-15% subrounded quartz phenocrysts (2-5 mm), 40-50% diffuse, sericitized and deformed plagioclase phenocrysts in a dark biotite + quartz + feldspar matrix. Interval contains approximately 5% irregular quartz veins and a few localized biotite + calcite shears/slips. Quartz veins present at 13.60 (10 cm), 14.10, 14.50 (10 cm), 20.50, 21.40-22.80 (50%, in about 6 veins), and at lower contact. 15.20-15.90 - Weakly sericitic, 1-2% disseminated pyrite mainly in lower 20 cm. 18.50 - 10 cm calcite + quartz veining, biotite alteration envelope. 21.80-23.60 - Silicified, with more distinct feldspar phenocrysts; lower contact with 1-2 cm quartz vein at approximately 35° to core axis.	F9618	15.20	15.90	0.70	<5	1	36	96	50
23.60	43.90	MAFIC TO INTERMEDIATE VOLCANICS (LAVAS)	Medium to dark brownish gray, weakly foliated, uniform interval of fine-grained feldspar + quartz + biotite ± amphibole rock containing 1-2% small euhedral plagioclase phenocrysts (1-3 mm, epidotized) and 0-3% flattened green									

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
43.90	73.40	MAFIC TO INTERMEDIATE VOLCANICS (FRAGMENTALS AND PILLOW LAVAS)	<p>mafic phenocrysts (chlorite + amphibole). Unit contains scattered trace magnetite down to 38.50 and minor epidote + calcite veinlets throughout. Probably lavas.</p> <p>38.50-43.90 - Continuously magnetic, with 0.5-2% small equant magnetite crystals.</p> <p>36.90-38.00 - Dark green (amphibole-rich) portion, lower contact abrupt but irregular (interflow contact).</p> <p>Highly variable unit composed of roughly equal portions of medium gray, fine-grained biotite + feldspar + quartz lava fragments with rare small plagioclase phenocrysts, in a dark green chlorite + amphibole-rich matrix. Unit is probably a pillow or flow breccia. Magnetite present throughout (1-5%) as small equant crystals, diffuse granular patches and foliation-parallel stringers, and locally as silica ± calcite ± magnetite stringers and veinlets (discordant). Sulphides present in small quantities, as noted.</p>									
			48.20-48.70 - Mainly massive lava with 10 cm green matrix zone with 5-10% magnetite, 1% pyrite (in calcite + quartz stringer).	F9619	48.20	48.70	0.50	<5	2	79	61	120
			48.70-49.40 - Includes 25 cm strong silicification with sulphides; overall, 1% pyrite + pyrrhotite, trace chalcocopyrite.	F9620	48.70	49.40	0.70	<5	2	73	130	110
			49.40-50.20 - Highly magnetic, <1% pyrrhotite + pyrite.	F9621	49.40	50.20	0.80	<5	1	62	88	91
			50.20-50.80 - Includes 1 cm quartz + calcite vein approximately parallel to foliation, with pyrrhotite + chalcocopyrite; overall, <1% pyrrhotite + pyrite, trace chalcocopyrite.	F9622	50.20	50.80	0.60	11	1	130	22	72
			50.80-51.80 - Lower 60 cm with 5-10% magnetite and minor pyrite + pyrrhotite; overall, <1% pyrite + pyrrhotite, trace chalcocopyrite.	F9623	50.80	51.80	1.00	<5	1	160	30	100

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au	Ag	Cu	Pb	Zn
From	To							ppb	ppm	ppm	ppm	ppm
			56.00-58.60 - Distinct gray fragments in dark green matrix.									
			58.60-59.20 - Biotitic, siliceous contact zone, quartz + sulphide stringers in foliation, 1-2% pyrrhotite + pyrite, trace chalcopyrite.	F9624	58.60	59.20	0.60	<5	<1	190	44	94
			59.20-65.00 - Gray, weakly to moderately silicified zone with minor dark green matrix (stringers), probably pillow lavas.									
			62.90-63.70 - Silicified with weak brecciation, sulphides on fractures and minor stringers, 1% pyrrhotite + pyrite, trace chalcopyrite.	F9625	62.90	63.70	0.80	<5	<1	41	28	67
			65.00-68.40 - Layered gray + green (pillows). 66.20 - 30 cm bull quartz vein, epidote alteration envelope.									
			68.30-73.40 - Variably biotitic and mineralized interval (flow contact alteration zone?), as noted.	F9626	68.30	68.80	0.50	6	1	73	33	150
			68.30-68.80 - Abrupt transitions from approximately 1.0 m layered gray + green fragmental into biotitic schist with calcite stringers and 1% coarse-grained pyrite.									
			68.80-69.80 - 35 cm layered green and biotitic (gray-black) fragmental, then 65 cm massive silicified gray rock with weak brecciation, epidote patches and calcite stringers, 2-3% pyrite, trace pyrrhotite + chalcopyrite (single pillow?).	F9627	68.80	69.80	1.00	<5	<1	99	130	110
			69.80-70.70 - Pyritized biotitic rock layered with gray silicified rock (fragments?), 5-10% calcite stringers, 3-5% disseminated + stringer pyrite, trace pyrrhotite + chalcopyrite.	F9628	69.80	70.70	0.90	<5	1	420	44	110
			70.70-71.50 - Calcite-filled brecciated	F9629	70.70	71.50	0.80	<5	1	34	37	150

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au	Ag	Cu	Pb	Zn
From	To							ppb	ppm	ppm	ppm	ppm
			biotitic rock, 20-30% calcite in tensional stringers, 1% pyrite.									
			71.50-72.00 - As in 69.80-70.70, 3-5% pyrite.	F9630	71.50	72.00	0.50	<5	<1	47	33	91
			72.00-72.80 - Foliated greenish-gray lava, <1% pyrite.	F9631	72.00	72.80	0.80	<5	<1	34	28	61
			72.80-73.40 - As above with biotite alteration and pyrite + calcite stringers in foliation, 2-3% pyrite.	F9632	72.80	73.40	0.60	<5	1	210	20	120
73.40	90.60	MAFIC VOLCANICS (LAVAS ± TUFFS)	<p>Massive to weakly foliated, medium gray to mottled green + gray, aphanitic, locally amygdaloidal (epidote fillings) massive to pillowed mafic lavas. Scattered trace pyrite ± pyrrhotite. Weak, sporadic magnetite in upper portion, 73.40-79.40, with minor interbedded mafic to intermediate tuffs and mainly pillowed lavas below with nearly continuous moderate to strongly magnetic (1-2% magnetite).</p> <p>73.40-79.40 - Mottled green + gray uniform lavas.</p> <p>79.40-86.30 - Streaky to layered gray ± green pillow lavas and fragmentals in upper part; lower portion (84.70-86.30) distinctly layered mafic to intermediate tuffs ± sediments(?), with minor biotite-rich 1-2 mm laminae and 10 cm biotite + chlorite zone at 86.20-86.30.</p> <p>86.30-90.60 - Uniform gray, weakly silicified amygdaloidal pillowed lavas.</p>									
90.60	98.80	ALTERATION ZONE WITH FELDSPAR PORPHYRY SILLS	Complex alteration + mineralized zone consisting in general of an upper strong biotitic section with calcite veining, pyrite, and one minor sill (dyke?), a central unit of mineralized (pyrite) feldspar porphyry, and a lower unit of variably mineralized and silicified host mafic volcanics. Details as follows.									

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
90.60-91.30	91.30		90.60-93.00 - Biotite alteration zone, possibly metasediments(?) consisting of medium-grained biotite + chlorite + bladed (1-4 mm) amphibole and 5-10% calcite stringers. Includes 10 cm very siliceous white feldspar porphyry (1% pyrrhotite, trace chalcopyrite) at 90.90 m and a 45 cm calcite + quartz vein at 91.60 m.	F9633	90.60	91.30	0.70	<5	1	42	26	130
91.30-92.40	92.40		91.30-92.40 - Includes calcite vein; trace pyrite + chalcopyrite.	F9634	91.30	92.40	1.10	<5	1	51	42	140
92.40-93.00	93.00		92.40-93.00 - Massive to foliated biotite + amphibole + calcite rock, 2-3% coarse disseminated pyrite (to 3 mm cubes).	F9635	92.40	93.00	0.60	24	3	1400	97	150
93.00-95.60	95.60		93.00-95.60 - Dark gray, weakly to moderately foliated, siliceous feldspar porphyry sill containing 15-20% small plagioclase phenocrysts (1-3 mm), 1% bluish quartz phenocrysts; unit is composite as plagioclase phenocrysts are only distinct in upper 1.2 m and lower 20-30 cm.	F9636	93.00	94.10	1.10	10	<1	200	13	68
94.10-94.80	94.80		94.10-94.80 - 1-2% disseminated pyrite, trace chalcopyrite (on late fractures).	F9637	94.10	94.80	0.70	28	2	1100	22	61
94.80-95.60	95.60		94.80-95.60 - 3-5% disseminated ± stringer pyrite, <1% chalcopyrite.	F9638	94.80	95.60	0.80	8	<1	84	12	66
95.60-96.70	96.70		95.60-96.70 - 1-2% disseminated pyrite, trace chalcopyrite.	F9639	95.60	96.70	1.10	8	1	100	26	100
96.70-97.30	97.30		96.70-97.30 - Silicified mafic volcanic host rock, 1% disseminated pyrite; moderately magnetic throughout.	F9640	96.70	97.30	0.60	5	<1	18	14	66
97.30-98.80	98.80		97.30-98.80 - Feldspar porphyry sill, <1% disseminated pyrite.	F9641	97.30	98.80	1.50	11	<1	150	21	84
98.80	109.20	MAFIC VOLCANICS	Weakly to moderately foliated, dark green to									

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
			streaky or mottled green + gray, aphanitic mafic volcanics. Quite uniform, probably lavas. Minor sulphide mineralization, but interval weakly magnetic throughout.									
			99.2 - 20 cm bull quartz + calcite vein at 80-90° to core axis.									
			103.10-103.60 - 2-3% stringer + disseminated pyrite, 3-5% calcite patches (tension fracture-fillings).	F9642	103.10	103.60	0.50	16	1	180	10	85
			103.60-104.20 - 1% disseminated pyrite, 5% calcite patches.	F9643	103.60	104.20	0.60	14	1	100	11	82
			104.20-104.70 - 3-5% stringer + disseminated pyrite, 2-3% calcite.	F9644	104.20	104.70	0.50	13	<1	110	15	80
			107.20 - 15 cm calcite + quartz + pyrite veins/stringers, granular, 2-3% pyrite overall.									
			108.70-109.20 - <1% disseminated pyrite, moderate biotite alteration in last 15 cm, 3-5% calcite patches.	F9645	108.70	109.20	0.50	9	1	150	15	140
109.20	113.60	QUARTZ PORPHYRY SILL	Medium gray, mottled, weakly foliated to strongly foliated (lower margin) siliceous/feldspathic quartz porphyry sill (dyke?). Contains 1-5% small blue quartz phenocrysts (1-4 mm) set in an aphanitic matrix of biotite + feldspar + quartz. Mineralized throughout with disseminated pyrite.									
			109.20-110.70 - 1-2% disseminated pyrite, minor calcite patches.	F9646	109.20	110.70	1.50	7	1	20	10	75
			110.70-111.80 - 2-3% disseminated pyrite, 1-2% calcite patches.	F9647	110.70	111.80	1.10	6	1	5	15	52
			111.80-112.90 - 2-3% disseminated pyrite, 3-5% calcite patches.	F9648	111.80	112.90	1.10	5	1	1	8	41
			112.90-113.60 - 1% disseminated pyrite, minor calcite patches, increasingly sheared towards lower contact.	F9649	112.90	113.60	0.70	6	1	22	4	62
113.60	201.90	MAFIC VOLCANICS	Dark green to medium grayish-green, moderately to weakly foliated in upper part to massive and undeformed downhole. Interval consists									

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au	Ag	Cu	Pb	Zn
From	To							ppb	ppm	ppm	ppm	ppm
			mainly of pillowed lavas with minor massive lava sections; magnetic throughout, especially in grayish (silicified) sections and in inter-pillow/pillow margin selvages. Minor sulphides in upper part, as noted.									
			113.60-114.10 - <1% pyrite, 5% calcite gash fillings.	F9650	113.60	114.10	0.50	6	1	99	14	86
			114.10-114.90 - 1-2% pyrite, 5% calcite gash fillings.	F9651	114.10	114.90	0.80	6	1	230	21	110
			113.60-120.50? - Moderately foliated, irregular zones of 5-10% calcite gash filling and patches.									
			120.90-121.60 - 3-5% disseminated + stringer pyrite.	F9652	120.90	121.60	0.70	8	1	420	24	130
			122.00-158.50 - Relatively uniform interval of mafic pillow lavas. Scattered minor disseminated ± stringer pyrite and magnetic (variable) throughout.									
			123.60 - Trace chalcopryrite over 10 cm.									
			131.50-158.50 - Scattered trace chalcopryrite, occurring as disseminations on and in calcite + epidote veinlets, alone as fine platings of chlorite fractures and slips on micro-foliations, and associated with pyrite disseminations ± stringers.									
			Frequency of chalcopryrite occurrences:									
			131.50-135.00 - 9 locations.									
			135.00-138.00 - 1 location.									
			138.00-141.00 - 4 locations.									
			141.00-144.00 - 7 locations.	F9653	141.60	142.60	1.00	9	1	310	2	31
			144.00-147.00 - 10 locations.	F9654	146.00	147.00	1.00	9	1	270	1	28
			147.00-150.00 - 3 locations.									
			150.00-153.00 - 6 locations.									
			153.00-156.00 - 2 locations.									
			156.00-158.50 - 6 locations.									
			158.50-159.60 - Interflow breccia unit, moderate pervasive silica alteration with 5-10% calcite gash fillings and patches;									

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
			epidotized fragments; 1-2% pyrite and trace chalcopryite over 30 cm from 158.90 m. 159.60-167.10 - Dark green to pale greenish gray (silicified) lavas, pillows in part; scattered trace pyrite (rare trace chalcopryite). 167.10-168.50 - Interflow breccia, similar to unit at 158.50-159.60, 1% disseminated pyrite (locally 2-3% pyrite). 168.50-175.90 - Dark green to medium greenish-gray pillow lavas, patchy silica + epidote alteration. 4-5 trace chalcopryite occurrences. 175.90-178.70 - Interflow breccia (± sediment/tuff?) unit, varying from calcite + biotite + chlorite schist to silicified lava/pillow fragments; 5% calcite gash fillings and patches, magnetic throughout, trace pyrite. 178.70-194.10 - Uniform medium green to grayish-green massive lavas grading downhole into pillowed or brecciated lavas. Trace pyrite, rare trace chalcopryite. 194.10-201.90 - Medium gray to greenish-gray flow breccia with approximately 10% calcite filled gashes and stringers, patchy biotite (± black chlorite?) alteration, and locally abundant small bladed/acicular green amphiboles. Lower 3 m with decreasing calcite patches and increasing epidote.									
201.90	206.70	PYRITIC MAFIC FRAGMENTAL MINERALIZED ZONE	Distinct geological unit, probably mafic fragmental containing (overall) 1-2% disseminated and stringer pyrite, with local intervals of 3-5% pyrite over 10-50 cm. Unit is dark greenish-gray with localized epidotized fragments(?) and layers, minor weak bleaching of other layers/fragments?). Weakly magnetic									

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
			throughout.									
			201.90-202.90 - 2-3% pyrite, mainly in central 50 cm.	F9655	201.90	202.90	1.00	17	<1	200	19	110
			202.90-203.90 - 2-3% pyrite, locally to 3-5%.	F9656	202.90	203.90	1.00	13	1	130	10	89
			203.90-204.90 - 1-2% pyrite, mainly in distinct stringers.	F9657	203.90	204.90	1.00	11	<1	110	12	94
			204.90-205.90 - 2-3% pyrite, 1 speck chalcopryrite in calcite patch.	F9658	204.90	205.90	1.00	10	1	110	15	98
			205.90-206.70 - 1-2% pyrite, mainly in lower 30 cm.	F9659	205.90	206.70	0.80	11	1	140	22	130
206.70	222.00	MAFIC VOLCANICS	Weakly foliated, medium bluish-gray to greenish-gray to dark green mafic volcanic, probably flow-breccia. Contains quite uniform 10-15% calcite patches (gash fillings ± stringers) throughout. Variably magnetic throughout.									
			206.70-216.70 - Variable green to gray colouration (varying silicification, weak to nil).									
			216.70-222.00 - Mainly gray to bluish-gray (moderate silicification) with increased biotite content. Lower contact wholly gradational based on increasing biotite + epidote contents, over approximately 50 cm.									
222.00	225.50	INTERFLOW BRECCIA	Dark gray to black to variegated pale gray and apple green (epidote), weakly foliated flow contact breccia unit. Moderate pervasive biotite (+ trace black chlorite) alteration in upper part, grading downhole into moderate to strong pervasive silica + epidote + calcite alteration. Gradational upper and sharp lower contacts.									
			222.00 - Trace chalcopryrite over 30 cm.	F9660	222.00	222.50	0.50	17	<1	260	24	100
			223.00 - Pyrite + chalcopryrite in epidote-filled amygdule of 0.5 cm diameter.									
			224.20 - 5 cm quartz + calcite vein with partial black chlorite alteration en-									

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
225.50	234.10	MAFIC VOLCANICS	<p>velope; scattered traces chalcopyrite in alteration envelope; 15 cm above vein is silicified with 5% open vugs. 225.10 - 15 cm vuggy as above.</p> <p>Dark green, massive, medium-grained plagioclase and amphibole basalt lava (possibly sill?). Uniform interval with no significant alteration, non-magnetic. Sharp contacts at 44° and 61° to core axis.</p>									
234.10	258.00	INTERMEDIATE VOLCANICS	<p>Andesite lavas, flow-breccias and related fragmentals. Medium, gray, weakly to moderately foliated, with weak pervasive epidote alteration of plagioclase phenocrysts. Variable, 5-40% pale greenish (epidote) plagioclase phenocrysts throughout, set in a gray to black fine-grained matrix of biotite + feldspar + quartz ± calcite ± epidote. Locally minor green amphibole or prominent black biotite in matrix to fragments. Rare trace pyrite and 3 specks chalcopyrite (all between 237.00-240.00 m). Scattered weak magnetite.</p>									
	258.00	END OF HOLE	<p>Foliations:</p> <p>13.5m - 34° 86m - 57° 19.5 - 43° 91 - 35° 26.5 - 23° 96 - 37° 30 - 20° 102.5 - 31° 33 - 20° 108 - 36° 37 - 24° 113.5 - 31° 44 - 34° 119.5 - 24° 49.5 - 29° 123 - 30° 55 - 33° 131 - 32° 62 - 25° 132-152 - no reliable 70.5 - 25° foliations 79 - 22° 153 - 27° 82.5 - 36° 159.5 - 35°</p>									

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
From	To											
			165.5m - 33°									
			205.5m - 35°									
			168 - 58°									
			212.5 - 39°									
			171 - 47°									
			218.5 - 35°									
			177.5 - 50°									
			235.5 - 39°									
			191.5 - 48°									
			247.5 - 34°									
			200 - 43°									
			256.5 - 33°									
			203 - 36°									



Ministry of
Northern Development
and Mines

Report of Work Conducted After Recording Claim

Transaction Number
W9220.00025

Ontario

Alro

Mining Act

Personal information collected on this form is obtained under the authority of the
this collection should be directed to the Provincial Manager, Mining Lands,
Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



S2K13SE0003 39 DIXIE LAKE

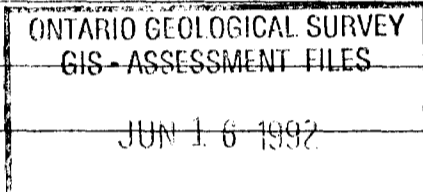
900

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of mining assessment work or consult the Mining Recorder.
 - 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) National Trust Company		Client No. 174 637
Address 21 King St. E. Toronto, ON M5C 1B3		Telephone No. 416-813-4600
Mining Division Red Lake	Township/Area Dixie Lake Area	M or G Plan No. G1769
Dates Work Performed	From: July 29, 1991	To: August 2, 1991

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	Diamond Drilling <i>holes F12, 1211</i>
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

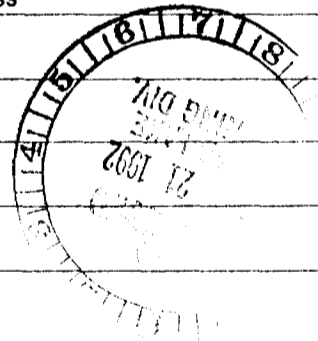


Total Assessment Work Claimed on the Attached Statement of Costs \$ 21,819

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
R.D. Page	RR #5-19 Legault St.
Teck Explorations Limited	North Bay, Ontario P1B 8Z4



(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 <i>May 20, 1992</i>	Recorded Holder or Agent (Signature) <i>J.A. Desautels</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 Mr. R.A. Quartermain	Mutual Resources Ltd. 900 - 850 W. Hastings St., Vancouver, BC V6C 1E1	
Telephone No. <i>604-689-3846</i>	Date <i>May 20, 1992</i>	Certified By (Signature) <i>J.A. Desautels</i>

For Office Use Only

Total Value Cr. Recorded <i>\$ 21,819.00</i>	Date Recorded <i>MAY 21, 1992</i>	Mining Recorder <i>Barbara Thompson</i>	Received Stamp
	Deemed Approval Date	Date Approved <i>May 21, 1992</i>	
	Date Notice for Amendments Sent		



**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

W9220.00025

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be made available to the public 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^e 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	21819	
			21819
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			21819

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			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			

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
	× 0.50 =

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	Évaluation totale demandée
	× 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 _____ Date May 20, 1992

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	KRL 1107929	1
	KRL 1023125	1
	KRL 1056809	1
	KRL 1056810	1
	KRL 1056853	1
	KRL 1056889	1
	KRL 1056775	1
	KRL 1056776	1
	KRL 1056777	1
	KRL 1056778	1
	KRL 1056779	1
	KRL 1056780	1
	KRL 1056781	1
	KRL 1056782	1
	KRL 1056783	1
	KRL 1056784	1
	KRL 1056785	1
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
21819	364
	170
	20
	20
	130
	98
	680
	680
	680
	680
	680
	680
	680
	680
	680
	680
	680
Total Value Work Done	Total Value Work Applied

Value Assigned from this Claim	Reserve Work to be Claimed at a Future Date
11998	9457
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:

- Credits are to be cut back starting with the claim listed last, working backwards.
- 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.

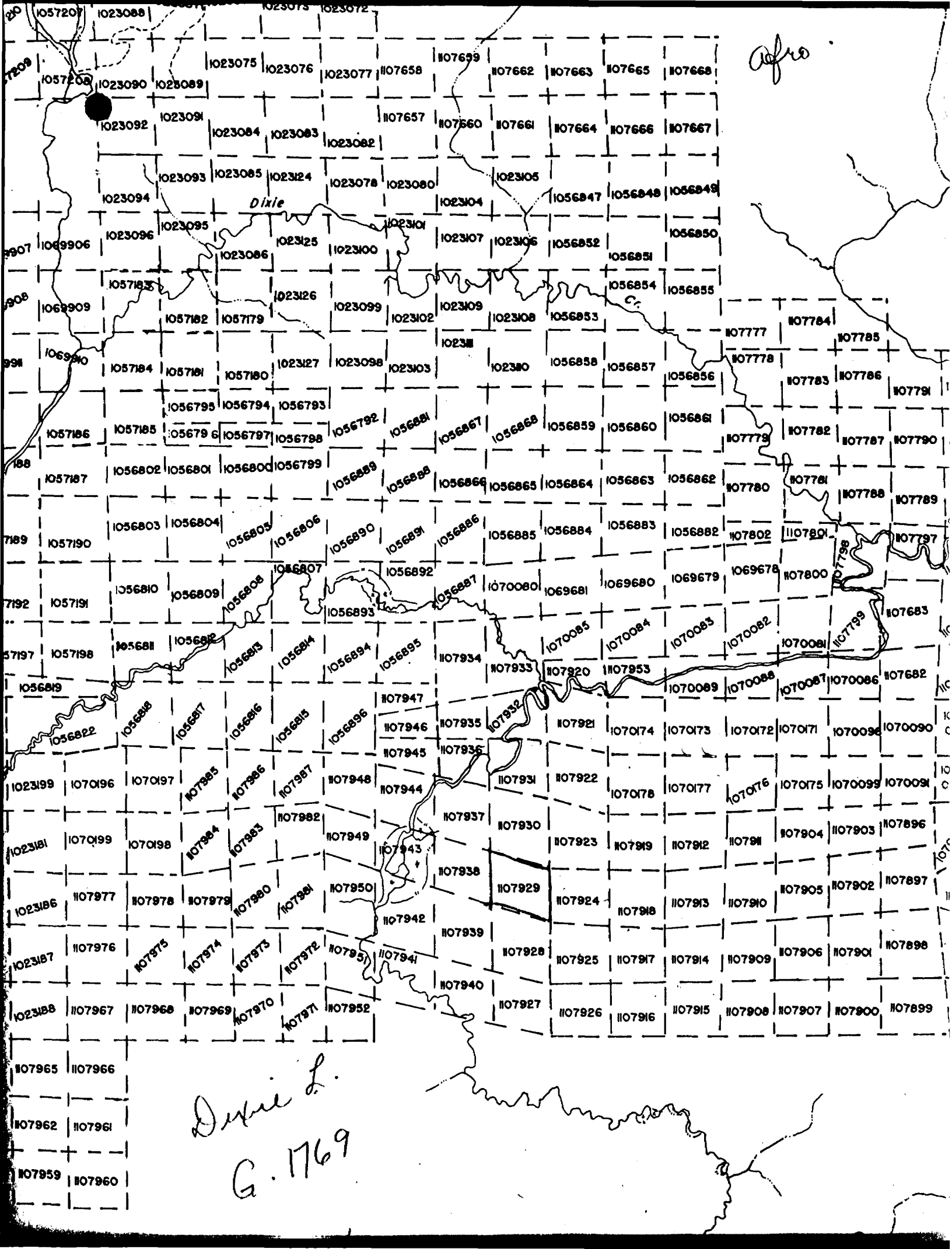
In the event that you have not specified your choice of priority, option one will be implemented.

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 _____ Date _____



afro

Dixie

Dixie L.
G. 1769

1057207 1023088 1023075 1023076 1023077 107658 107699 107662 107663 107665 107668
 1057208 1023090 1023089 1023092 1023091 1023084 1023083 1023082 107657 107660 107661 107664 107666 107667
 1023094 1023093 1023085 1023124 1023078 1023080 1023105 1023104 1056847 1056848 1056849
 1023096 1023095 1023086 1023125 1023100 1023101 1023107 1023106 1056852 1056851 1056850
 1057183 1023126 1023102 1023109 1023108 1056853 1056854 1056855
 1057184 1057181 1057180 1023127 1023098 1023103 102310 1056858 1056857 1056856 107777 107784 107785
 1056795 1056794 1056793 1023101 1023107 1023106 1056852 1056851 1056850
 1057186 1057185 1056796 1056797 1056798 1056792 1056881 1056867 1056868 1056859 1056860 1056861 107778 107783 107786
 1057187 1056802 1056801 1056800 1056799 1056889 1056888 1056866 1056865 1056864 1056863 1056862 107779 107782 107787 107790
 1056803 1056804 1056805 1056806 1056890 1056891 1056886 1056885 1056884 1056883 1056882 107780 107781 107788 107789
 1056810 1056809 1056808 1056807 1056892 1056887 1070080 1069681 1069680 1069679 1069678 107800 107798 107797
 1056811 1056812 1056813 1056814 1056894 1056895 107934 107933 107920 107953 1070084 1070083 1070082 1070081 107799 107683
 1056819 1056822 1056818 1056817 1056816 1056815 1056896 107947 107946 107935 107932 107921 1070174 1070173 1070172 1070171 1070098 1070090
 1023199 1070196 1070197 107985 107986 107987 107948 107944 107931 107922 1070178 1070177 1070176 1070175 1070099 1070091
 1023181 1070199 1070198 107984 107983 107982 107949 107943 107937 107930 107923 107919 107912 107911 107904 107903 107896
 1023186 107977 107978 107979 107980 107981 107950 107938 107929 107924 107918 107913 107910 107905 107902 107897
 1023187 107976 107975 107974 107973 107972 107951 107942 107939 107928 107925 107917 107914 107909 107906 107901 107898
 1023188 107967 107968 107969 107970 107971 107952 107940 107927 107926 107916 107915 107908 107907 107900 107899
 107965 107966
 107962 107961
 107959 107960



Forage
St-Lambert
Drilling Co. Ltd.

P.O. Box 473 Valleyfield, Québec, Canada J6S 4V7

Tél.: 514-371-7171

Télex: 05-27397

INVOICE # 921-ONT-91-3

PAGE 5

HOLE # P91-12

MOVING

FROM P91-11 TO P91-12
DISTANCE 400 METRES

LABOUR :	7 HRS 30 MIN X \$ 23.00 = \$	172.50
DRILL RENTAL :	2 HRS 30 MIN X \$ 23.00 = \$	57.50
TRACTOR RENTAL :	2 HRS 30 MIN X \$ 50.00 = \$	125.00

SUB TOTAL :		\$ 355.00
PLUS : 15 %		+\$ 53.25

TOTAL FOR MOVING : \$ 408.25

NO CHARGE

DRILLING HOLE

OVERBURDEN :

FROM 0.00 TO 15.00 BW CAS 15.00 M X \$ 42.65 =	\$ 639.75 ✓
FROM 15.00 TO 30.00 BW CAS 15.00 M X \$ 55.75 =	\$ 836.25 ✓
FROM 30.00 TO 41.00 BW CAS 11.00 M FIELD COST	

DRILLING OVERBURDEN AT FIELD COST

LABOUR :	18 HRS 0 MIN X \$ 23.00 = \$	414.00 ✓
DRILL RENTAL :	9 HRS 0 MIN X \$ 23.00 = \$	207.00 ✓

MATERIAL

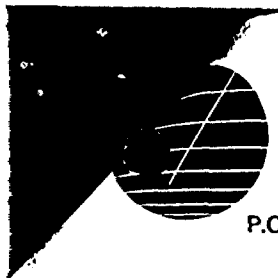
9.00 BW CASING (3 METRES)	\$ 103.50	\$ 931.50 ✓
1.00 BW CASING TAP	\$ 192.70	\$ 192.70 ✓
1.00 TRICONE BUTON BIT	\$ 793.00	\$ 793.00 ✓
1.00 TRICONE ADAPTOR 75 MM	\$ 195.45	\$ 195.45 ✓

SUB TOTAL :		\$ 2733.65 ✓
PLUS : 15 %		+\$ 410.05 ✓

TOTAL FOR DRILLING OVERBURDEN AT FIELD COST : \$ 3143.70 ✓

TOTAL : \$ 4619.70 ✓
Ok

No.



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INVOICE # 921-ONT-91-3

PAGE 1

HOLE # P91-12

FISHING

11.5?

LABOUR : 19 HRS 0 MIN X \$ 23.00 = \$ 437.00 ✓
 DRILL RENTAL : 9 HRS 30 MIN X \$ 23.00 = \$ 218.50 ✓

SUB TOTAL : \$ 655.50 ✓
 PLUS : 15 % +\$ 98.33 ✓

TOTAL :

\$ 753.83 ✓

RETRIEVING MATERIAL

LABOUR : 3 HRS 0 MIN X \$ 23.00 = \$ 69.00 ✓
 DRILL RENTAL : 1 HRS 30 MIN X \$ 23.00 = \$ 34.50 ✓

SUB TOTAL : \$ 103.50 ✓
 PLUS : 15 % +\$ 15.53 ✓

TOTAL :

\$ 119.03

OK. NO CHARG

DELAYS

STANDBY FOR WATER:

LABOUR : 4 HRS 0 MIN X \$ 23.00 = \$ 92.00 ✓
 DRILL RENTAL : 2 HRS 0 MIN X \$ 23.00 = \$ 46.00 ✓

SUB TOTAL : \$ 138.00 ✓
 PLUS : 15 % +\$ 20.70 ✓

TOTAL :

\$ 158.70 ✓

MUD AND ADDITIVES

MATERIAL

9.00 EZ MUD (19 L) \$ 169.00
 3.00 QUIK TROL (1 KG) \$ 14.75

\$ 1521.00 ✓
 \$ 44.25 ✓

SUB TOTAL : \$ 1565.25 ✓
 PLUS : 15 % +\$ 234.79 ✓

TOTAL :

\$ 1800.24 ✓

Ad.

Forage
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 Drilling Co. Ltd.

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INVOICE # 921-ONT-91-3

PAGE 7

HOLE # P91-12

WATER LINE

1600 M OF WATER LINE LESS OUR PORTION OF 300 M
 1300 M X (\$ 0.12 PER 30 M) X 41 M DRILLED = \$ 213.20

TOTAL : \$ 213.20

SPECIALS ITEMS

ROAD CUTTING:

LABOUR	:	54 HRS	0 MIN	X \$ 23.00	= \$ 1242.00	✓
CHAIN SAW	:	21 HRS	0 MIN	X \$ 10.00	= \$ 210.00	✓

SUB TOTAL	:				\$ 1452.00	✓
PLUS 15%	:				\$ 217.80	✓

TOTAL	:				\$ 1669.80	✓

TOTAL COST FOR HOLE # P91-12

Handwritten notes and calculations:

* Running total.
 7545.47

Handwritten checkmarks and scribbles are present over the road cutting calculations.



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INVOICE # 921-ONT-91-3

PAGE 8

HOLE # P91-12A

MOVING

FROM P91-12 TO P91-12A
 DISTANCE ?

LABOUR : 0 HRS 45 MIN X \$ 23.00 = \$ 17.25
 DRILL RENTAL : 0 HRS 15 MIN X \$ 23.00 = \$ 5.75

SUB TOTAL : \$ 23.00
 PLUS : 15 % +\$ 3.45

TOTAL FOR MOVING : \$ 26.45

NO CHARGE

DRILLING HOLE

OVERBURDEN :
 FROM 0.00 TO 11.00 BW CAS 11.00 M X \$ 42.65 = \$ 469.15 ✓

REAMING :
 FROM 11.00 TO 13.00 BW CAS 2.00 M X \$ 21.33 = \$ 42.66 ✓

DRILLING IN ROCK :
 FROM 11.00 TO 100.00 BQ W/L 89.00 M X \$ 42.65 = \$ 3795.85 ✓
 FROM 100.00 TO 153.00 BQ W/L 53.00 M X \$ 44.85 = \$ 2377.05 ✓

TOTAL : \$ 6684.7 ✓

HOLE TESTING

ONE ACID TEST DEPTH 30.00 M = \$ 42.65 X 1.0 TIME \$ 42.65
 ONE ACID TEST DEPTH 60.00 M = \$ 42.65 X 1.0 TIME \$ 42.65
 ONE ACID TEST DEPTH 90.00 M = \$ 42.65 X 1.0 TIME \$ 42.65
 ONE ACID TEST DEPTH 120.00 M = \$ 44.85 X 1.0 TIME \$ 44.85
 ONE ACID TEST DEPTH 150.00 M = \$ 44.85 X 1.0 TIME \$ 44.85

TOTAL : \$ 217.0 ✓



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INVOICE # 921-ONT-91-3

PAGE 9

HOLE # P91-12A

MUD AND ADDITIVES

MATERIAL

1.00 GS-550 (1 KG) \$ 14.75

\$ 14.75 ✓

SUB TOTAL :

\$ 14.75

PLUS : 15 %

+\$ 2.21

TOTAL :

\$ 16.96 ✓

WATER LINE

1600 M OF WATER LINE LESS OUR PORTION OF 300 M

1300 M X (\$ 0.12 PER 30 M) X 153 M DRILLED = \$ 795.60

TOTAL :

\$ 795.60

CORE BOXES

BQ SIZE 24 TRAYS X \$ 5.00 = \$ 120.00

TOTAL :

\$ 120.00

PARTIAL COST FOR HOLE P91-12A STILL IN PROGRESS

\$ 7834.92
 =====

ok.

Forage
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Drilling Co. Ltd.

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INVOICE # 921-ONT-91-4

PAGE 1

HOLE # P91-12A

DRILLING HOLE

DRILLING IN ROCK :

FROM 153.00 TO 200.00 BQ W/L 47.00 M X \$ 44.85 = \$ 2107.95
FROM 200.00 TO 258.00 BQ W/L 58.00 M X \$ 47.05 = \$ 2728.90

TOTAL : \$ 4836.85

HOLE TESTING

ONE ACID TEST DEPTH 180.00 M = \$ 44.85 X 1.0 TIME \$ 44.85
ONE ACID TEST DEPTH 210.00 M = \$ 47.05 X 1.0 TIME \$ 47.05
ONE ACID TEST DEPTH 240.00 M = \$ 47.05 X 1.0 TIME \$ 47.05

TOTAL : \$ 138.95

DELAYS

STANDBY FOR WATER:

LABOUR : 5 HRS 0 MIN X \$ 23.00 = \$ 115.00
DRILL RENTAL : 2 HRS 30 MIN X \$ 23.00 = \$ 57.50

SUB TOTAL : \$ 172.50
PLUS : 15 % \$ 25.88

TOTAL : \$ 198.38

WATER LINE

1600 M OF WATER LINE LESS OUR PORTION OF 300 M
1300 M X (\$ 0.12 PER 30 M) X 105 M DRILLED = \$ 546.00

TOTAL : \$ 546.00

CORE BOXES

BQ SIZE 21 TRAYS X \$ 5.00 = \$ 105.00

TOTAL : \$ 105.00



Forage
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P.O. Box 473 Valleyfield, Québec, Canada J6S 4V7

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Télex: 05-27397

INVOICE # 921-ONT-91-4

PAGE 2

HOLE # P91-12A

MATERIAL LEFT IN HOLE ON REQUEST

1.00 BW CASING SHOE	\$ 165.00	\$ 165.00
4.00 BW CASING (10 FEET)	\$ 103.50	\$ 414.00
1.00 BW CASING (2 FEET)	\$ 35.00	\$ 35.00

TOTAL : \$ 614.00

TOTAL COST FOR HOLE # P91-12A \$14274.10
 PREVIOUSLY INVOICED \$ 7834.92
 BALANCE FOR THIS INVOICE \$ 6439.18
 =====

2+00mN

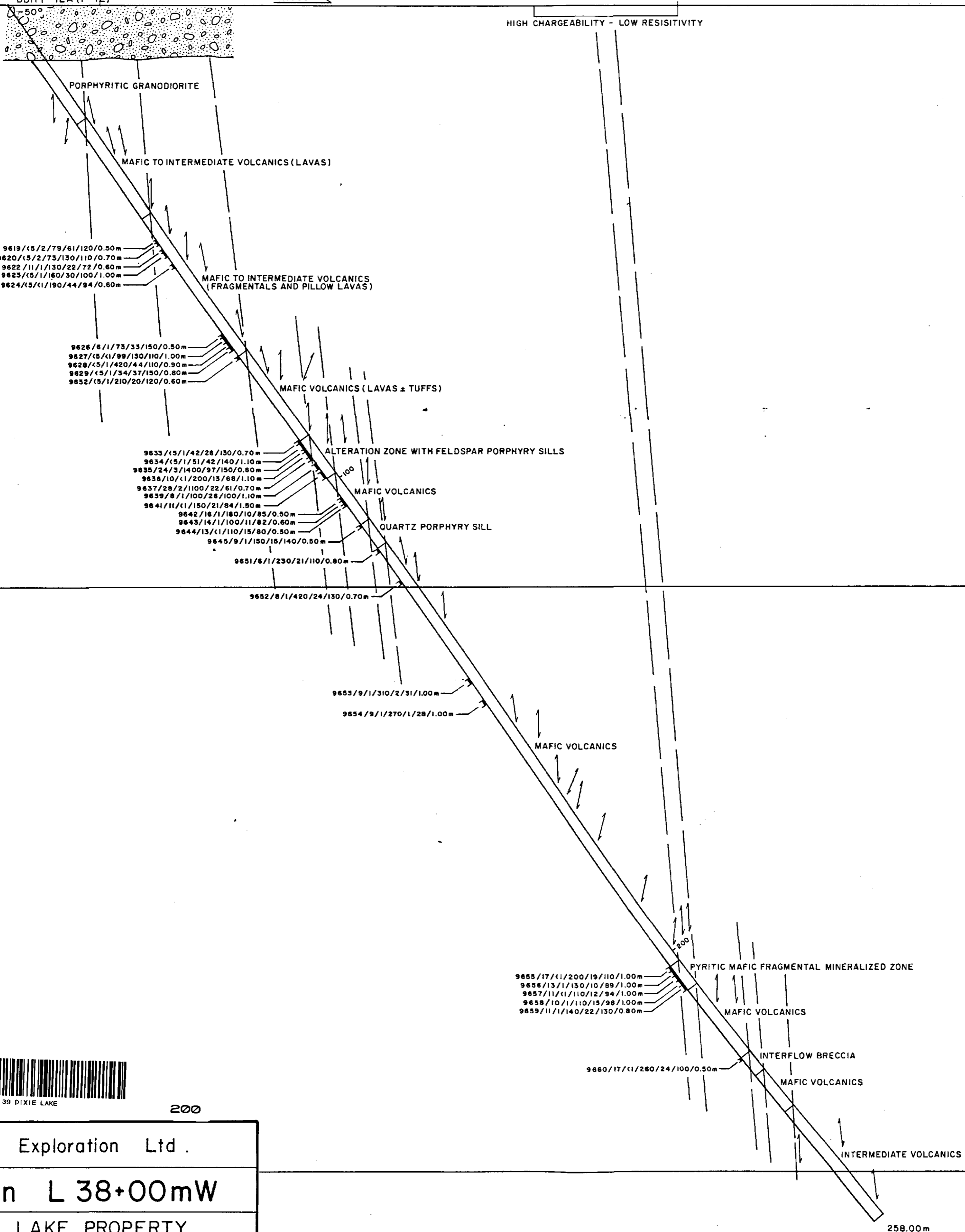
3+00mN

DATUM 100m

DDH P-12A (P-12)

$Az. 333^\circ$

HIGH CHARGEABILITY - LOW RESISTIVITY



200

Teck Exploration Ltd.

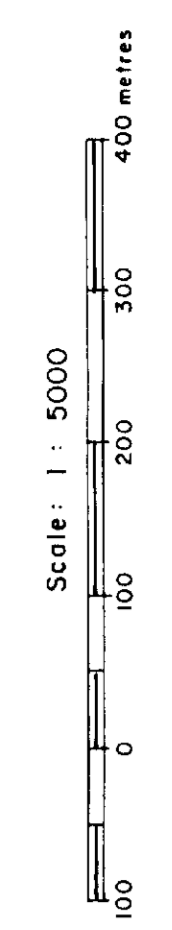
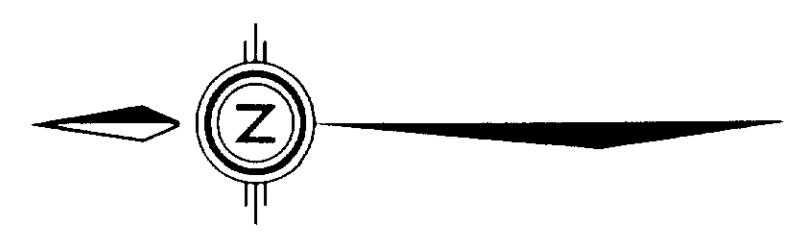
Section L 38+00mW

DIXIE LAKE PROPERTY
DIXIE LAKE AREA

P-12, P-12A

LOGGED BY:	R.O. PAGE	DATE:	JULY/1991	JOB:	15620	N.T.S.:	52K/13
SCALE:	10 0 10 20 metres			1 : 500		DWG. NO.: 6683	

F9619/15/2/79/61/120/0.50m
(Sample Number/Au.ppb/Ag.ppm/Cu.ppm/Pb.ppm/Zn.ppm/Length in metres)



TECK EXPLORATION LTD.	
GEOLOGY	
DIXIE LAKE PROPERTY DIXIE LAKE AREA	
J. JANZEN O. TARNOCAI	MAR / 1991 DATE
15620 N.T.S.	92K/13 JOB
6722 DRAWING NO.	

