42A01NE0137 74 TECK

DIAMO

TOWNSHIP: TECK TWP. **REPORT NO:** 74

WORK PERFORMED FOR: Glenn J. Mullan

RECORDED HOLDER: SAME AS ABOVE (xx)

: OTHER ( )

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
L 982362	TS-89-01	375'	Sept/89	(1)
	TS-89-02	435'	Sept/89	(1)

NOTES: (1) #W8908.456, filed Mar/90

TUNDRA GOLD MINES LTD.

Property:	SHAMROCK PROSPECT
District:	KIRKLAND LAKE, ONTARIO
NTS:	42A/1
Township/Area:	TECK TOWNSHIP
Claim Number:	982362
Date Started:	SEPTEMBER 22: 1989
Date Completed:	SEPTEMBER 24: 1989
Logged By:	GLENN J. MULLAN
Drilled By:	HEATH & SHERWOOD
Objective:	TEST NORTH "BREAK" AT POWER LINE TRENDING N70°E TO N80°E

Hole No.	TS-89-01		Page 1 of 3
Hole Location: 660'N & 510'E #3 POST OF L-982362	Line:	6+00 WEST	
	Station:	21+30 NORTH	
	Elevation:	SURFACE	
	Azimuth:	310°	
	Dip:	-45°	
Hole Length	375'	Core Size	BQ
Dip Tests: Actual Dip	43°	42°	
Depth	200'	375'	

ONTARIO GEOLOGICAL SURVEY
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FOOTAGE From	FOOTAGE To	DESCRIPTION	SAMPLE NUMBER TS-89	FROM	TO	WIDTH feet	Au oz/t
0	10.6	CASING					
10.6	375.0	BASALT (V7) KINOJEVIS VOLCANICS (THOLEIITES) -aphanitic, dark to pale green-grey, weakly foliated at 35°-50° CA, "massive" basalt -quartz & quartz-carbonate stringers & veinlets (≤ ½") ± epidote & chlorite in fractures throughout ALTERATION: "μ" carbonatization (locally intense) ie: 235' "σ" silicification (weak) "ø" chloritization (ubiquitous) "ϵ" epidotization moderate to intense -core is generally competant and weakly magnetic -epidote "veinlets" may be hyaloclastite at pillow margins (seam on surface at collar) -local oxidation along fractures					

TUNDRA GOLD MINES LTD.

Hole No.	TS-89-01	Page 2 of 3

Property: SHAMROCK

FOOTAGE From	FOOTAGE To	DESCRIPTION	SAMPLE NUMBER TS-89	FROM	TO	WIDTH feet	Au oz/t				
		MINERALIZATION: Pyrite as wisps in fractures (fine grained), coarse blebs (1/8") disseminated throughout, and as fine to medium grained disseminations ALL SAMPLE #'S PREFACED WITH "TSH-89"									
		V7, carb. stringers, <1% Py	5001	10.9	16.0	5.1	Nil				
		V7, 2" q.c. chl. veinlets at 60° CA	5002	19.1	21.2	2.1	Nil				
		V7, fractures, ϵ, qc str. <1% Py	5003	31.3	35.1	3.8	Nil				
		V7ϵ, μ, <1% Py, carb. str. at 45° CA	5004	35.1	38.7	3.6	Nil				
		V7σμø, brecciated, <1% Py	5005	41.2	46.0	4.8	Nil				
		V7σμ, chlorite-carbonate veinlets & wisps	5006	46.7	50.7	4.0	Nil				
		V7μ, 1-2% Py disseminated	5007	50.7	55.0	4.3	Tr.				
		V7, q.c. chl. veinlets, ≤ 1% Py	5008	55.0	60.0	5.0	Nil				
		V7μϵ, q.c. chl. veinlets at 35°-45° CA	5009	60.0	65.0	5.0	Nil				
		V7μσ, q.c.ϵ stringers	5010	71.3	75.0	3.7	Nil				
		V7ϵø, <1% Py dissem.	5011	75.0	80.0	5.0	Nil				
		V7ø, 1% fine gr. Py, q.c. stringers	5012	85.0	90.0	5.0	Nil				
		V7ø, q.c. str.	5013	94.0	99.0	5.0	Nil				
		V7σμϵ, q.c. veinlets <1% Py	5014	106.0	109.0	3.0	Tr.				
		V7øσϵ, q.c. veinlets at 35°-40° CA	5015	115.0	120.0	5.0	Nil				
		V7øϵ, coarse Py blebs dissem.	5016	125.0	130.0	5.0	Nil				
		V7øϵ, q.c.ϵ str. & wisps	5017	135.0	138.0	3.0	Nil				
		V7σμϵ, q.c. chl. stringers at 25°-40° CA	5018	145.0	150.0	5.0	Nil				
		V7μ, <1% Py	5019	155.0	160.0	5.0	Nil				
		V7μϵ, <1% Py	5020	160.0	163.9	3.9	Nil				
		V7øϵ, qtz-carb-chlorite-epidote str. parallel to CA	5021	171.0	175.0	4.0	Nil				
		V7μϵ, qtz-carb-chl. str. & veinlets <1% Py	5022	180.0	185.0	5.0	Nil				
		V7μϵ, " " " " "	5023	185.0	190.0	5.0	Nil				
		V7μ, minor q.c. str. <1% Py	5024	199.5	202.6	3.1	Nil				
		V7μø, q.c. chl. veinlets at 40° CA	5025	210.0	215.0	5.0	Nil				

TUNDRA GOLD MINES LTD.

Hole No.	TS-89-01	Page 3 of 3

Property: SHAMROCK

FOOTAGE From	FOOTAGE To	DESCRIPTION	SAMPLE NUMBER TS-89	FROM	TO	WIDTH feet	Au oz/t
		V7ø, qtz-epidote str. at 30° CA <1% Py	5026	220.0	225.0	5.0	Nil
		V7μ, ½"-1" qtz-carb.-chl. veinlets	5027	225.0	230.0	5.0	Nil
		V7μ (strong), 1% fine grained dissem. Py	5028	235.0	240.0	5.0	Nil
		V7μ (strong) " " "	5029	240.0	245.0	5.0	Nil
		V7μ (strong) " " "	5030	245.0	250.0	5.0	Nil
		V7με, <1% Py	5031	258.2	263.1	4.9	Nil
		V7øμ, <1% Py	5032	263.1	267.7	4.6	Nil
		V7μø, <1% Py	5033	267.7	271.9	4.2	Nil
		V6ø μσ (interflow sediment? clay matrix) <1% Py	5034	276.2	281.2	5.0	Tr.
		V6 øμσ, " " "	5035	285.0	290.7	5.7	Nil
		V6-V4 σ μ smokey grey q.v. 2" at 291.6'	5036	291.1	295.0	3.9	Nil
		V9-6,4? σμ qc. str. <1% Py	5037	295.0	300.0	5.0	Nil
		V9-6,4? σμ qc. veinlet, 4" at 306.2' 1% Py	5038	305.2	307.2	2.0	Nil
		V6? σμ ≤ 1% Py fine grained, dissem.	5039	315.0	320.0	5.0	Nil
		V7øσ minor q.c. stringers	5040	325.0	328.5	3.5	Nil
		V9-6,4? σμ qc. str. <1% Py	5041	335.0	340.0	5.0	Tr.
		V9-6,4? σμ q.c. str. <1% Py	5042	340.0	345.0	5.0	Nil
		V6-V4? σμ qc. chl. str. & veinlets <1% Py	5043	353.0	359.0	6.0	Nil
		V6-V7? σμ qc. chl. veinlets at irregular CA	5044	359.0	365.0	6.0	Nil
		V6-V7, σμ qc chl. epidote str. & veinlets	5045	367.0	369.5	2.5	Nil
		V7 øσ qc. chl. stringers	5046	369.5	374.5	5.0	Nil
		276.2-369.5 gradational increase in silicification (σ) & carbonatization (μ) -andesite tuff?, weakly laminated					
	375.0	END OF HOLE					

TUNDRA GOLD MINES LTD.

Property:	SHAMROCK PROSPECT
District:	KIRKLAND LAKE, ONTARIO
NTS:	42A/1
Township/Area:	TECK TOWNSHIP
Claim Number:	L-982362
Date Started:	SEPTEMBER 26: 1989
Date Completed:	SEPTEMBER 27: 1989
Logged By:	GLENN J. MULLAN
Drilled By:	HEATH & SHERWOOD
Objective:	TEST NORTH "BREAK" ≈ 1,200' EAST OF TS-89-01

Hole No.	TS-89-02	Page 1 of 3
Hole Location: 660'N OF #2 POST ON CLAIM LINE L-982362	Line: 5+55E Station: 21+15N Elevation: SURFACE DATUM Azimuth: 360°N (NOMINAL) Dip: -45°	
Hole Length	435'	Core Size: BQ
Dip Tests: Actual Dip / Depth	47° / 200'	47° / 435'

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
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FOOTAGE From	FOOTAGE To	DESCRIPTION	SAMPLE NUMBER TS-89	FROM	TO	WIDTH feet	Au oz/t				
0	40.0	CASING									
40.0	41.0	PEBBLES, BOULDERS									
41.0	52.5	THOLEIITIC FLOW TOP BRECCIA (V7▲) -Kinojevis Group- -pale green to light grey, inequigranular volcanic breccia (70% pale green clasts, 30% chlorite matrix) -clasts deformed & contorted, both angular & subrounded, ≤ ½" diameter -ALTERATION: silicification & carbonatization -cut by quartz & carbonate stringers & veinlets throughout at various CA (30-50° CA) -ubiquitous fine grained pyrite ≤ 1%	5047	41.2	45.0	3.8	Nil				
			5048	50.3	52.5	2.2	Nil				
52.5	165.0	THOLEIITIC VOLCANIC, BASALT (V7 ø) -fine grained to aphanitic, dark green to dull grey strongly chloritized basalt -cut by minor quartz-carbonate stringers at 30°-50° CA	5049	55.0	59.0	4.0	Nil	V7ø			
			5050	65.0	71.0	6.0	Tr.	V7ø qc. str., <1% Py			

TUNDRA GOLD MINES LTD.

Hole No.	TS-89-02	Page 2 of 3

Property: SHAMROCK

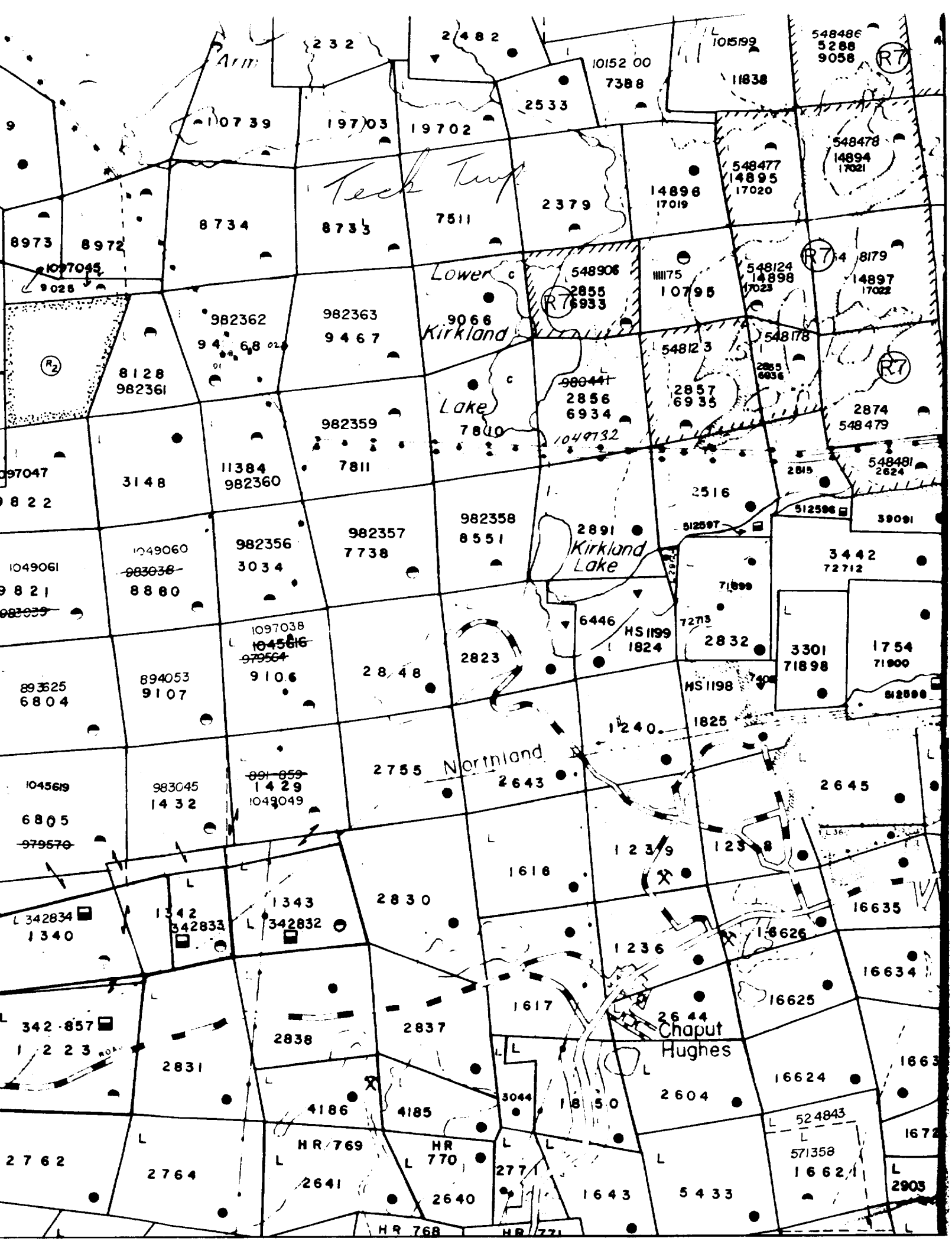
FOOTAGE From	FOOTAGE To	DESCRIPTION	SAMPLE NUMBER TS-89	FROM	TO	WIDTH feet	Au oz/t	
		-ubiquitous Py, ≤ 1% as fine disseminations & medium grained blebs	5051	71.0	75.0	4.0	Nil	V7▲ø <1% Py
		> 80', magnetic	5052	82.0	85.0	3.0	Nil	V7ø ▲ <1% Py
		83.2', ½" qtz-carb. stringers at 25° CA	5053	93.3	96.3	3.0	Nil	V7øσ coarser grained flow or 2D/3G?
		> 108' strong foliation at 15°-30° CA	5054	105.0	110.0	5.0	Nil	V7øεμ, <1% Py
			5055	115.4	120.0	4.6	Nil	V7øεμ,qc. str.at 20° CA
			5056	129.7	134.7	5.0	Tr.	V7øσμ, qc.str.at 30° CA
		> 155', strong carbonate, chlorite, silicification weak breccia texture (V7▲)	5057	140.0	145.0	5.0	Nil	V7ø, qc. str. at 30-40°
			5058	155.0	160.0	5.0	Nil	V7øμ, qc. str. at 10°CA
		161-165' QUARTZ VEIN	5059	160.0	163.0	3.0	Nil	V7▲, ½" q.v.ε at 30°CA <1% Py
		-brecciated, < 1% chalcopyrite, smokey to dull grey quartz-carbonate, wall rock fragments	5060	163.0	165.0	2.0	Nil	V7▲, q.v. brecciated
165.0	191.3	THOLEIITIC FLOW TOP BRECCIA (V7▲ø)	5061	165.0	169.5	4.5	Nil	V7▲, <1% Py
		-175-181' Intermediate Agglomerate	5062	169.5	172.3	2.8	Tr.	V7, V6▲
			5063	175.0	180.0	5.0	Nil	V7, V10▲ ≤ 1% Py
			5064	187.3	191.1	3.8	Nil	V10, V7▲ ≤ 1% Py
191.3	230.0	INTERMEDIATE AGGLOMERATE (V10-6)						
		-pale to light green, aphanitic	5065	195.0	200.0	5.0	Nil	V10-6, <1% Py
		-matrix 90%, clasts & fragments (10%) both subrounded & angular	5066	220.3	222.9	2.6	Nil	V10-6ε, <1% Py
		-clasts have chill margins, random orientation	5067	222.9	225.0	2.1	Nil	V10-6øσμ <1% Py
≈230.0	435.0	ANDESITE						
		-carbonatized (μ), epidotized (ε), chloritized-ø	5068	235.0	240.0	5.0	Tr.	V6μεø <1% Py
		-aphanitic, pale grey, locally silicified (σ)	5069	255.0	260.0	5.0	Tr.	V6με <1% Py
			5070	270.0	275.0	5.0	Nil	V6μεø qc. str. <1% Py
			5071	290.0	295.0	5.0	Nil	V6με qcε. str. <1% Py
			5072	315.0	320.0	5.0	Nil	V6μεσ qcε str.

TUNDRA GOLD MINES LTD.

Hole No.	TS-89-02	Page 3 of 3

Property: SHAMROCK

FOOTAGE From	FOOTAGE To	DESCRIPTION	SAMPLE NUMBER TS-89	FROM	TO	WIDTH feet	Au oz/t				
			5073	330.0	335.0	5.0	Nil	V6με qc. str.+ veinlets			
			5074	338.7	343.6	4.9	Nil	V6με▲ qc. ø str.			
			5075	345.0	350.0	5.0	Nil	V6μσε, qc. ε str.			
			5076	350.0	352.0	2.0	Nil	V6μσε, 8" q.c.v.▲			
			5077	352.0	355.0	3.0	0.005	V6μσ			
			5078	375.0	380.0	5.0	Nil	V6μø			
			5079	385.0	390.0	5.0	Tr.	V6μεø			
			5080	406.3	410.9	4.6	Nil	V6μεø qc. ø str.			
			5081	425.0	430.0	5.0	Nil	V6σμ			


Tech Twp
Lower Kirkland Lake
Kirkland Lake
Northland
Chaput Hughes
HR 769
HR 770
HR 768
HR 771
HS1199
HS1198
R2
R7
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2903

Ministry of Northern Development and Mines
Ontario

AL.

DOCUMENT No. W8908.456

Instructions
- Please type or print.
- For each type of work performed, a separate Report of Work should

42A01NE0137 74 TECK

Mining Act — Report of Work — 900

Name and Address of Recorded Holder	Prospector's Licence No.
Glenn J. Mullan	K-20,009
#16-1498 Ave. Perreault, Val d'Or, Quebec J9P 3H1	Telephone No. (819) 824-6021

Summary of Distribution of Credits and Work Performance

Mining Division	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
Larder Lake	L	982356	90						
Township or Area: Teck		982357	90						
Total Assessment Credits Claimed: 720 days		982358	90						
Type of Work Performed (Check one only)		982359	90						
☐ Manual Work		982360	90						
☐ Shaft Sinking Drifting or other Lateral Work		982361	90						
☐ Mechanical equipment		982362	90						
☐ Power Stripping other than Manual (maximum credit allowed - 100 days per claim)		982363	90						
☑ Diamond or other Core drilling									
☐ Core Specimens									

Dates when work was performed	Total No. of Days Performed	Total No. of Days Claimed	Total No. of Days to be Claimed at a Future Date
From: 1988: Sept. 22 To: 1988: Sept. 25	810'	720'	90

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. * (See note No. 1 on reverse side)	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
	L-982362							

Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Required Information eg. type of equipment, Names, Addresses, etc. (See Table on reverse side)
If space below is insufficient, attach schedules with required information and location sketches

Diamond Drilling By Heath + Sherwood (Kirkland Lake, Ontario)

TYPE OF DRILL: HS-10 A, UNITIZED

B.Q. Core Size

TWO DRILL HOLES: TS-88-01, 02

TOTAL FOOTAGE: TS-88-01 = 375'
TS-88-02 = 435'
810'

ONTARIO GEOLOGICAL SURVEY
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Certification of Beneficial Interest * (See Note No. 2 on reverse side)

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
	1988: October 8	G. Mullan

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying	Telephone No.	Date	Certified By (Signature)
Glenn J. Mullan, #16-1498 Ave. Perreault, Val d'Or, Quebec J9P 3H1	(819) 824-6021	1988: October 3	

For Office Use Only

Work Assignments	Received
	LARDER LAKE MINING DIV. RECEIVED DEC 13 1989 AM 11:50 PM 7 8 9 10 11 12 1 2 3 4 5 6

Table of Information

Type of Work	Specific Information per type	Other Information	Attachments
Manual Work **Subsection 77(18)**	Nil	Names and addresses of workers who performed manual work/operated equipment, together with dates and hours of employment.	Location Sketch: these are required to show the location of work in relation to the nearest claim post. Sketches should be drawn to scale where possible and the dimensions of the area worked should be noted. Indicate on the sketch whether this work is an expansion of previously recorded work.
Shaft Sinking, Drifting or other Lateral Work **Subsection 77(17)**			
Mechanical equipment **Subsection 77(8)**	Type of equipment (Brand Name)		
Power Stripping other than Manual **Subsection 77(14)**	Type of equipment (Brand Name) and amount expended. **Note:** Proof of actual cost (receipts) must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling **Subsections 77(5) and 76(3)**	Signed core logs (in duplicate) showing; footage, diameter of core, number and angles of holes.		Location Sketch (required in duplicate)
Core Specimens **Subsection 77(6)**			

*** Note No. 1**

Where work, e.g., diamond drilling, power stripping crosses a claim boundry, indicate the number of assessment days performed on each claim.

Where the work performed is greater than the work applied to contiguous claims, specify the claim(s) that the work assignment should be calculated on.

*** Note No. 2**

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

Teck Twp., Kirkland Lake area
-Central Portion of Twp.—

