Geological Report

Claims Claim sheet 105 D 10 60° 34′N/134° 53′W Whitehorse M.D.

TORO 1	YC08184.
TORO 5-6	YC08184-YC08186.
TORO (Fraction) 2-4	YC08244-YC08246.

Owner: Barry Ernewein. Whitehorse Yukon.

094 023

Dates work performed: Spring to fall 1998.

Author: Barry Ernewein.

Dated: 18 March 1999.

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This report has been examined by the Geological Evaluation Unit under Section 53 (1) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 1350.00.

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

Introduction

The Toro claims are located at the southeastern end of the Whitehorse Copper Belt which is a 30 km zone of copper and other metal mineralization occuring within a series of skarn deposits. These deposits are geographically located just west of the whitehorse airport.

Periodically during the spring to autumn months the author sampled outcrops, float, and soil on the claims Some of the samples were assayed and the results are shown in Appendix 3 herein.

Location and access

The easiest way to access the claims is to go south on the carcross road approximately 4.3 km from it's junction with the alaska highway and turn right onto a dirt road and travel about 800 m down a hill to Cowley creek thence across said creek and 500 m up a hill to an old pit which is the conjunction of the Sue 1 to 4 claims. The Toro claims are at the north end of and adjoining claims SUE 1 & 2.

Claim ownership

All of the claims are owned by Barry Ernewein who resides at 49 redwood St. Whitehorse Yukon Y1A 4B2.

Geology

The Whitehorse Copper Belt lies within the Whitehorse Trough which is part of the Intermontane Belt. The northwestern trending Trough is an Island-Arc Complex that ranges in age from upper Paleozoic through Jurassic.Within the Copper Belt, clastic and carbonate rocks of the Upper Triassic Lewes River Group and clastic rocks of the Lower Jurassic Laberge Group are the dominant rock types. The copper bearing skarns occur over a length of approximately 32 km along the western side of a Cretaceous diorite batholith of the Coast Plutonic Complex.

The Toro claims by-and-large are covered by very shallow overbuden and decomposed plant material as well as spindly black swamp spruce. However dioritic rock outcrops at intervals along the cut of the claim line of TORO 1(fr),6 and 5. The swamp created by Cowley creek is typical sand/silty/clayey muck.Some limestone float was noted along the strike of the claims.

Program

The program consisted of the author and the periodic help of an assistant taking soil and rock samples from,plugger chips,outcrops and float and submitting some of these for analysis. A 4x4 truck was used to get as far as

Cowley Creek and a Quad 4 x 4 to access the claims. A chain saw and plugger were used to clear deadfalls and to break up rock for taking some samples. No blasting was done nor were any blast holes drilled.

Conclusion

Soil samples were assayed for gold by the bottle roll cyanide leach method with negative results. However some of the limestone samples (L.S. 1 and 2) were very high carbonate and would be classified as ultra-high which means that the limestone could be used in paper-making and of course could be used in the mining industry to neutralize acidic ore.
It is recommended that a program of stripping be implemented to see if the copper bearing skarns can be picked up in this area.

References

New Imperial Mines L.t.d, 1971 — N.I.M. Surface Geology Map 1" = 1/2 mile drawn by I. Schmitt; approved by D. Tenny

Tenny, D 1981 — The Whitehorse Copper Belt, Mining Exploration and Geology (1967 - 1980). Yukon, Bulletin No: 1 Northern Affairs Program. Geology Section, Department of Indian and Northern Affairs

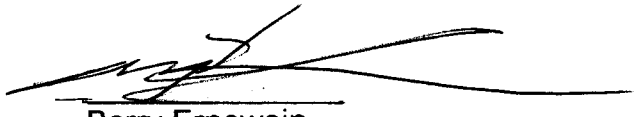
Appendix 1

Review of expenditures

	days
Geologist & assistant (including meals)	2 @ $400.00 = $800.00
Truck	2 @ $75.00 = $150.00
Quad 4x4	2 @ $50.00 = $!00.00
Plugger	2 @ $50.00 = $100.00
Chain saw	2 @ $30.00 = $60.00
Reports and maps	$400.00
Assays	$124.92
Total expenditures	$1734.92

Authors Qualifications

BSc.(Geology), 1992, University of B.C.
Underground miner,prospector,diamond drill crew chief for various mining and exploration companies since 1959.



Barry Ernewein.

Appendix 3

Assays

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-17

WHOLE ROCK ICP ANALYSIS

Lobo del Norte File # 97-6357

49 Redwood St., Whitehorse YT

SAMPLE#	CaO %
L.S.#1-77501	50.49
L.S.#2-77502	51.84
RE L.S.#2-77502	52.15

.200 GRAM SAMPLES ARE FUSED WITH 1.5 GRAM OF LIBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3.
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 27 1997 **DATE REPORT MAILED:** Nov 5/97 **SIGNED BY.** C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 (604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Lobo del Norte File # 97-6356

49 Redwood St., Whitehorse YT

SAMPLE#	Ag ppm	Au** ppb
M.C.#1-77503	<.3	<2

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: SILT AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.

DATE RECEIVED: OCT 27 1997 DATE REPORT MAILED: Nov 4/97 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Lobo del Norte File # 9802499
49 Redwood St., Whitehorse YT

SAMPLE#	Au# oz/t
A1	.001
A2	.001
A3	.001
A4	.001
RE A4	.001

AU# - 1000 GM SAMPLES LEACH IN 0.5% CYANIDE, SHAKE 5 MINUTES EVERY HOUR FOR 24 HOURS, EXTRACT INTO ALIQOUT 336/MIBK AND ANALYSIS BY GRAPHITE AA

- SAMPLE TYPE: SAND Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 29 1998 **DATE REPORT MAILED:** July 15/98 **SIGNED BY**.....C. L.....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data d FA

APPENDIX 4

SAMPLE DESCRIPTION

Claim	Sample	Description
TORO1 Fr		
Assayed		
	A1	sand, light brn fine grnd.
	A2	same
Not ass'd		
	L.S.3	clean Ls, light grey, fine grnd.
	L.S.4	same
	D1	qtz diorite, grey coarse grnd.
	D2	same.
	D3	same
	D4	same.
	D5	same.
TORO2 Fr		
Assayed		
	L.S.1	greyish white Ls, fine grnd clean samples.
	L.S.2	same.
Not ass'd		
	L.S.5	same
TORO6		
Assayed		
	M.C.1	silt, lte brn.
	A3	sand, lte brn, fine grnd.
	A4	same.
Not ass'd		
	M.C.2	silt, lte brn.
	M.C.3	sand, lte brn, fine grnd.
	M.C.4	same.
	M.C.5	same.
	A5	sand, med brn, fine grnd.
	A6	sand, lte brn, fine grnd.

Submitted by: Barry Ernewein.

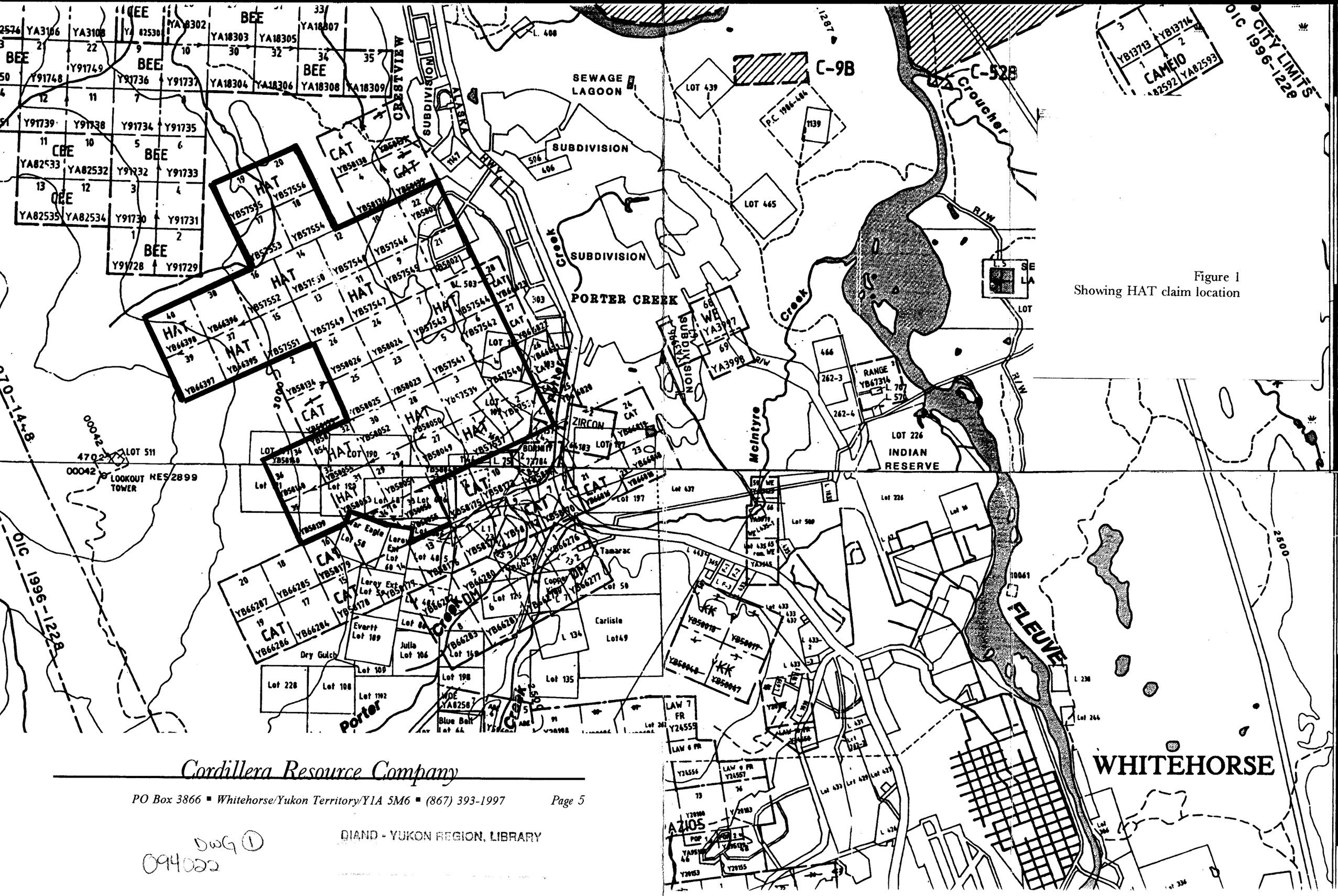


Figure 1
Showing HAT claim location

Cordillera Resource Company

PO Box 3866 ■ Whitehorse/Yukon Territory/Y1A 5M6 ■ (867) 393-1997

Toro Claims Sample Map

Scale (approx) 1:10,000

NTS 105 D 10

fig 3

N

WHITEHOR

2500

171

201

175

2500

LOT 463

5

TORO

YC08185

6

YC08186

mc#1

mc#2

mc 3

m.c.4

m.c.5

swamp

Cowley Cr

L.S.5

A5

A4

A3

A2

A1

YC08183

YC08184

YC08182

27

LOT 580

LOT 581

30

ACE

85476

29

LOT 231

35355

BLK 1

BLK 2

75653

75654

LOT 288

28

LOT 583

LOT 582

BLK 4

3

4

85235

LOT 230

56

75656

75655

COWLEY

YC08543

4

3

LOT 224

5

LUC

9

295

YB96294

YB96300

DWG

094023

30,000N

GEOLOGICAL LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE & RECENT

735 [Q] ALLUVIUM, GLACIAL DRIFT

746 [10] MILES CANYON BASALT

POST CRETACEOUS

INTRUSIVE DYKES OR SILLS

755 [9a] ACIDIC GRANITIC, APLITE, FELSITE, 9a-may predate skarn

734½ [9b] BASIC ANDESITE, DIORITE, POST-ORE, 9bπ - porphyry

MESOZOIC

CRETACEOUS

COAST INTRUSIVES

752 [8] DIORITE 8a - ALTERED (ENDOSKARN)
8b - MINERALISED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE

752 [7] 7g - GRANITE, 7b - GRANODIORITE, 7m - QUARTZ-MONZONITE

LOWER JURASSIC & LATER

746½ [6] LABERGE GROUP

UPPER TRIASSIC

LEWES RIVER GROUP (METAMORPHOSED)

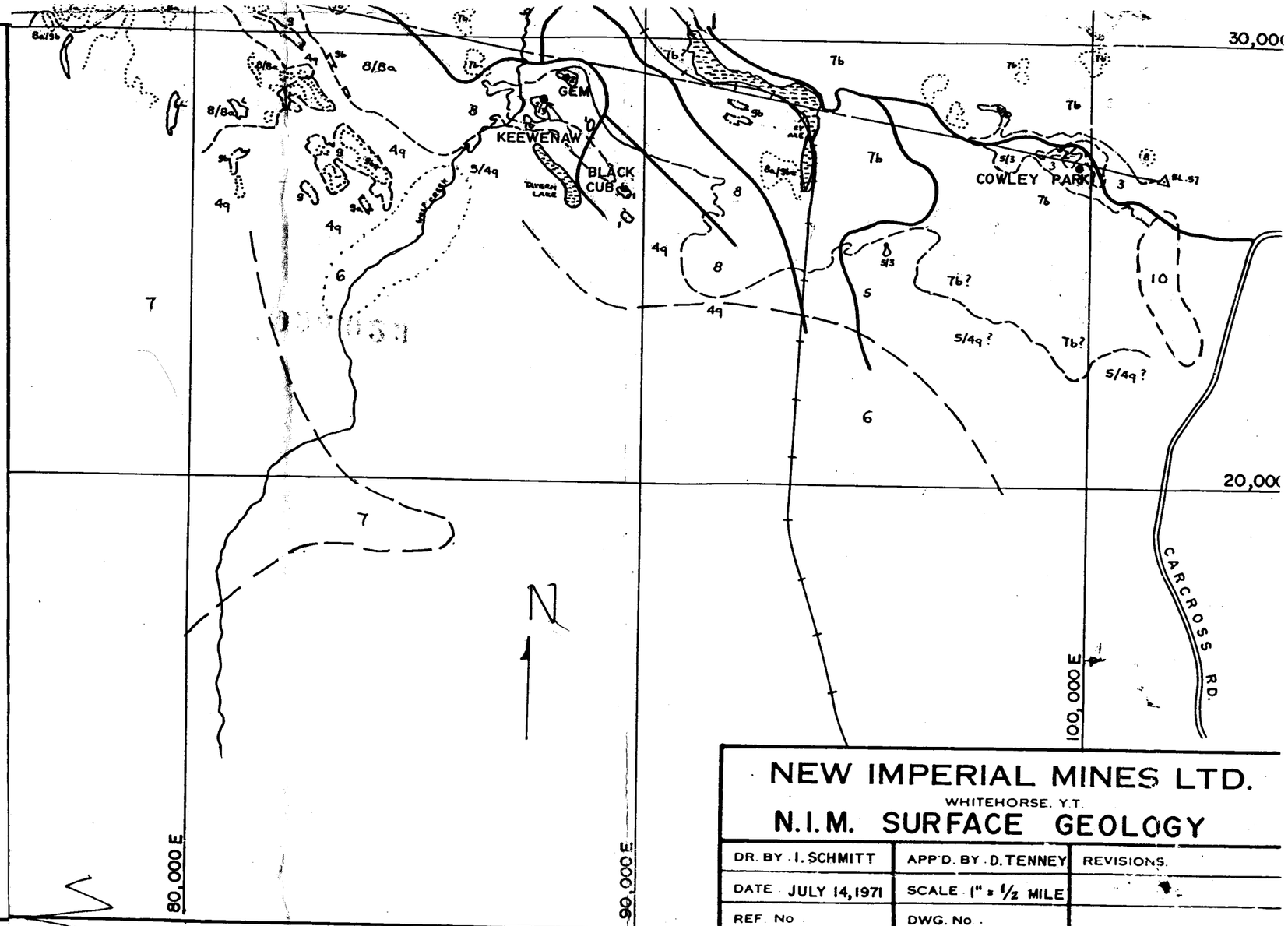
740½ [5] LIMESTONE AND/OR DOLOMITE, 5b - CARBONACEOUS LIMESTONE

736½ [4] SEDIMENTS - NONCALCAREOUS 4q - QUARTZITE; 4g - GREYWACKE; 4k - ARKOSE

738 [3] SKARN BARREN WITH..... a - ACTINOLITE; b - BORNITE; c - CHLORITE; d - DIOPSIDE; e - EPIDOTE; f - FELDSPAR; g - GARNET; h - HEMATITE; m - MAGNETITE; s - SERPENTINE; t - TREMOLITE; w - WOLLASTONITE; z - ZOISITE

745 [2] MINERALISED SILICATE SKARN...

745 [1] MINERALISED MAGNETITE SKARN...



NEW IMPERIAL MINES LTD.

WHITEHORSE, Y.T.

N.I.M. SURFACE GEOLOGY

DR. BY I. SCHMITT	APP'D. BY D. TENNEY	REVISIONS.
DATE JULY 14, 1971	SCALE 1" = ½ MILE	
REF. No.	DWG. No.	

fig 4