MAP NO.:	**ASSESSMENT REPORT** X	**DOCUMENT NO:**	092766
	PROSPECTUS	**MINING DISTRICT:**	Whitehorse
	CONFIDENTIAL X	**TYPE OF WORK:**	Blast trenching, prospecting
115 A 13	**OPEN FILE**		

REPORT FILED UNDER: R. Stack

DATE PERFORMED: 1-7 June, 1989 **DATE FILED:** 17 November, 1989

LOCATION: **LAT.:** 61o00'N **AREA:** Haines Junction

LONG.: 137o36'W **VALUE $:** 1500.00

CLAIM NAME & NO.: ELLEN 1-8 (YA97362-66)

WORK DONE BY: G.S. Davidson

WORK DONE FOR: R. Stack

DATE TO GOOD STANDING:

REMARKS: #27 ~~DECOELI~~ KLOO

Massive chalcopyrite occurs in three shale layers in green meta-volcanic rocks on the north side of Mt Decoeli. A Cu-Py type of volcanogenic massive sulphide deposit is suspected. Drilling in 1969 by Canadian Barranca Mines Ltd intersected 3.15% Cu over 5.2 m and 2.20% Cu over 6.4 m. Blast trenching in 1989 exposed mineralization over a 50 m strike length & a chip sample assayed 8.55% Cu over 2m.

SUMMARY REPORT

on the

ELLEN 1-8 CLAIMS
(YA97362-YA97366)
NTS 115 A-13
Lat. 61 00'N Long. 137 36'W
Whitehorse Mining District

FOR: R. STACK
Whitehorse, Yukon

1-7 June/89

BY

G.S. DAVIDSON, P. Geol.

November, 1989

092766

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $1500.00.

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

TABLE OF CONTENTS

LIST OF FIGURES

INTRODUCTION

The Ellen claims cover stratabound layers of chalcopyrite rich shale in andesitic volcanic rocks at the north end of Mt. Decoeli near Haines Junction, Yukon. This style of mineralization suggests that a Cu-Py type volcanogenic massive sulphide may be present on the property. Canadian Barranca Mines Ltd. completed 7 diamond drill holes on the M and MC claims in the late 1960's. They report copper values of 3.15% over 5.2 m and 2.20% over 6.4 m in two of the drill holes.

R. Stack of Whitehorse staked the Ellen 1-5 claims in May, 1987. The Ellen 6-8 claims were staked in September, 1989. G. Harris and R. Stack first prospected and sampled the showings in 1987. In June, 1989 R. Stack performed blast trenching on the main showing and further prospected the area. The writer accompanied geologists from Noranda Exploration Ltd. and DIAND on property inspections. This report describes the results of the season's activities.

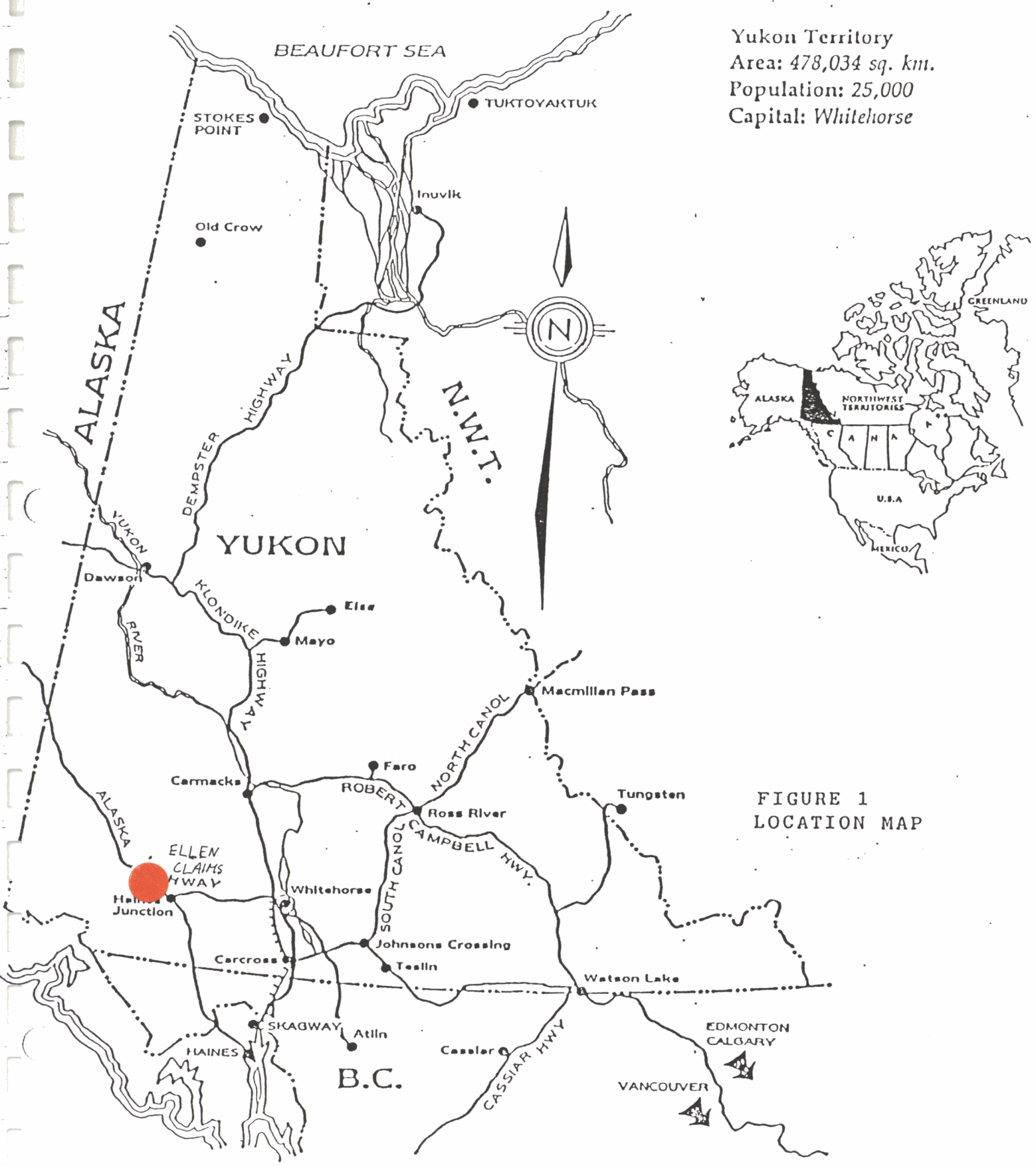
LOCATION AND ACCESS

The Ellen claims are located 27 km northwest of Haines Junction in the western Yukon Territory. The property is situated 8 km west of the Alaska Highway and is accessible via gravel road which leaves the Alaska Highway approximately 1 km north of the Jarvis River bridge. This road follows the Jarvis River to placer workings on Kimberley Creek. An old road connects the Ellen claims to the gravel road 3.5 km south of the Alaska Highway. The property location is shown in Figures 1 & 2.

PHYSIOGRAPHY, CLIMATE, VEGETATION

The claims lie east of the Jarvis River on the west side of the Shakwak Valley at the northern end of Mt. Decoeli in the Kluane Ranges. Elevations average 1200 m asl.. The copper showings are located in a rugged steep sided gully. Outcrop is abundant in the gully, however the surrounding uplands are covered with glacial till.

The Haines Junction area has a northern interior climate strongly influenced by the St. Elias Mountains. The area is known for high winds which constantly blow from the mountains into the Shakwak Valley. Winter temperatures average -20 C while summers are cool and last from June to September. The exploration season lasts from mid-May to early October.



Yukon Territory
Area: *478,034 sq. km.*
Population: *25,000*
Capital: *Whitehorse*

FIGURE 1
LOCATION MAP

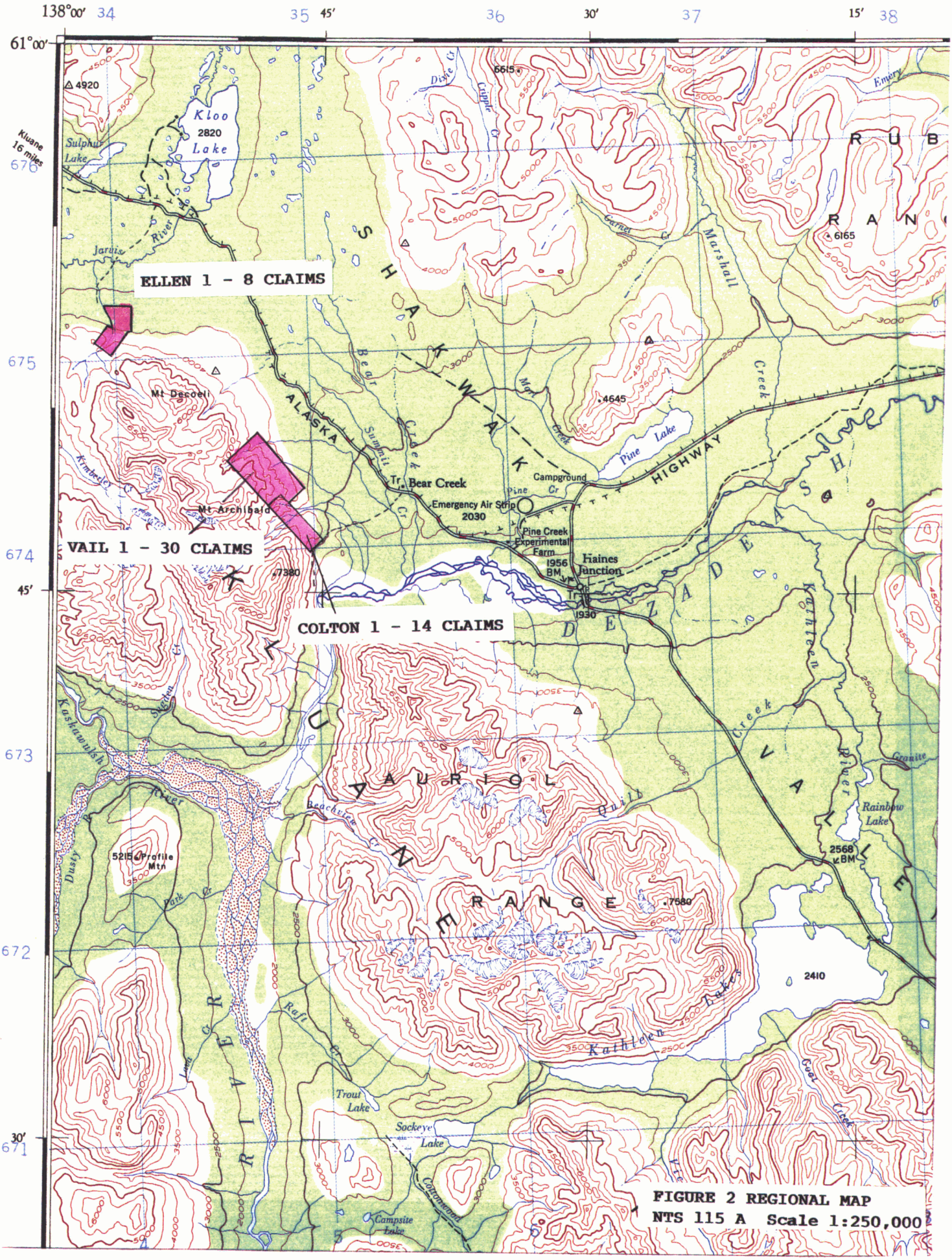


FIGURE 2 REGIONAL MAP
NTS 115 A Scale 1:250,000

Vegetation consists of grass covered uplands and spruce forest with moderate to thick ground cover at lower elevations.

PROPERTY

The property consists of 8 mineral claims registered with the district mining recorder in Whitehorse. Figure 3 shows the claim plan and Table 1 lists property data.

TABLE 1
CLAIM DATA

Claim Name	Record Number	Expiry Date
Ellen 1	YA97362	Nov.14, 1989
Ellen 2	YA97363	Nov.14, 1989
Ellen 3 Fraction	YA97364	Nov.14, 1989
Ellen 4	YA97365	Nov.14, 1989
Ellen 5 Fraction	YA97366	Nov.14, 1989
Ellen 6-8		Sept.29,1990

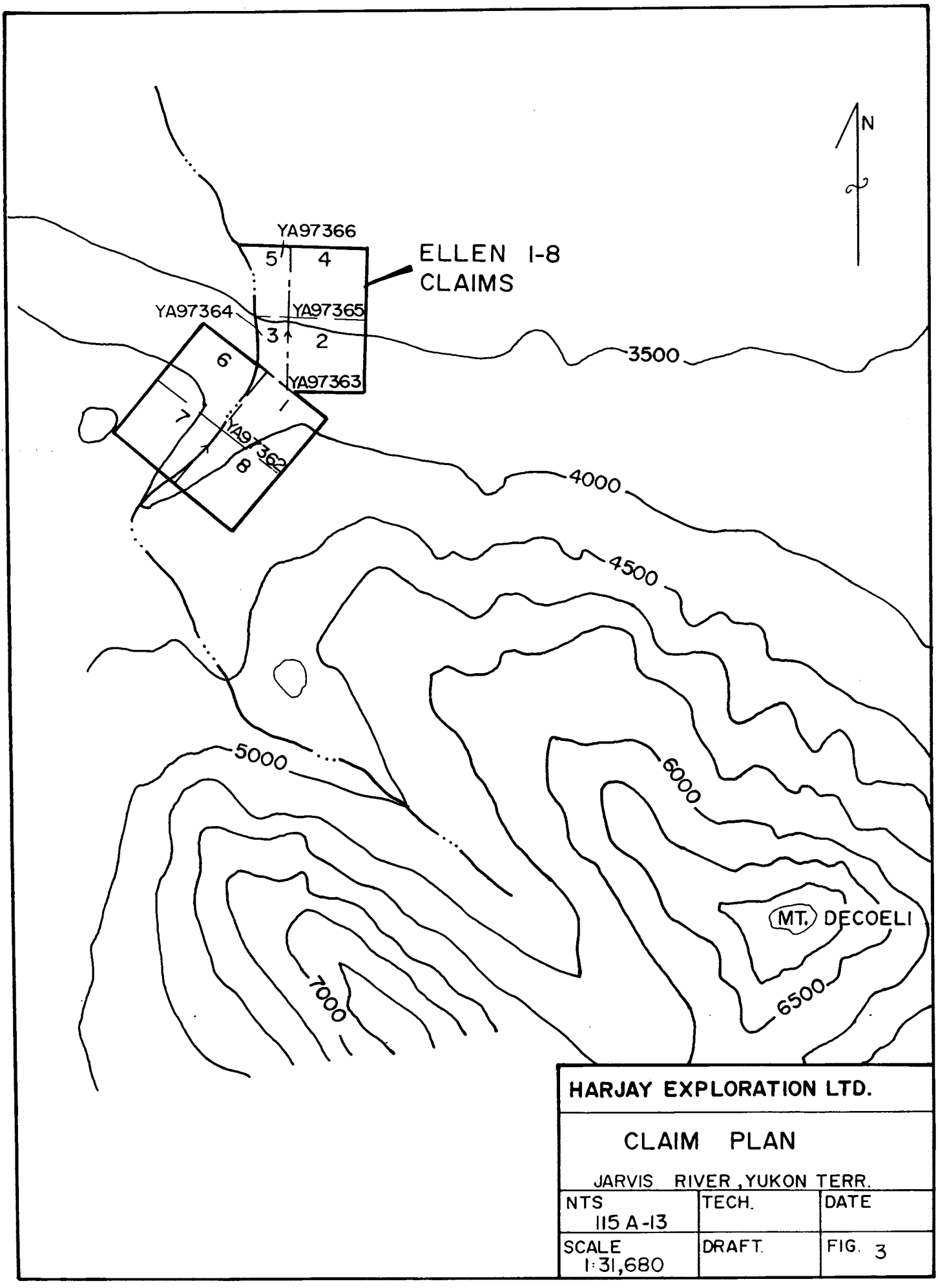
HISTORY

The Kluane Ranges were first explored around 1900 by prospectors travelling between coastal and central Alaska through the Shakwak Valley. Placer mining was active along the front range from Dalton Post to Silver City in the 1920's and 1930's.

In the 1950's the Kluane Ranges were explored for copper-nickel sulphide mineralization. Deposits were outlined on the Wellgreen and Canalask properties. The higher grade Wellgreen deposit was mined from 1972-1973.

The area of the Ellen claims was staked as the Jude, Nor and Tar claims in 1953 by R. Reber and optioned to Hudson Bay Mining and Smelting Co.. Hudson Bay drilled 5 holes (1060 ft) and built a tote road. In 1962 T. Worbetts restaked the showing as the MC claims and optioned them to Canadian Barranca Mines Ltd.. They completed 25 miles of magnetometer survey and 1421 feet of diamond drilling. Three diamond drill holes in 1966 and four more in 1969 were drilled into chalcopyrite bearing horizons in andesite. Copper values were reported in the 1966 drill holes as follows:

DDH MC-1 from 59-76ft at 3.15%.
DDH MC-2 from 90-124ft at 1.64%
or 103-124ft at 2.20%
DDH MC-3 from 80-97ft at 1.20%



HARJAY EXPLORATION LTD.		
CLAIM PLAN JARVIS RIVER, YUKON TERR.		
NTS 115 A-13	TECH.	DATE
SCALE 1:31,680	DRAFT.	FIG. 3

REGIONAL GEOLOGY

The Mt. Decoeli area lies east of the Denali Fault, the structural division between the Coast Plutonic Belt and Wrangell Terrane in the Kluane Ranges. The area is underlain by Paleozoic and/or Mesozoic greenstone, greenschist, minor argillite, and greywacke unconformably overlain by the Upper Jurassic to Lower Cretaceous Dezadeash Group. The geology of the district was released in Open File #831 by the G.S.C.. Figure 4 shows the regional geology and Figure 5 shows the airborne magnetic data.

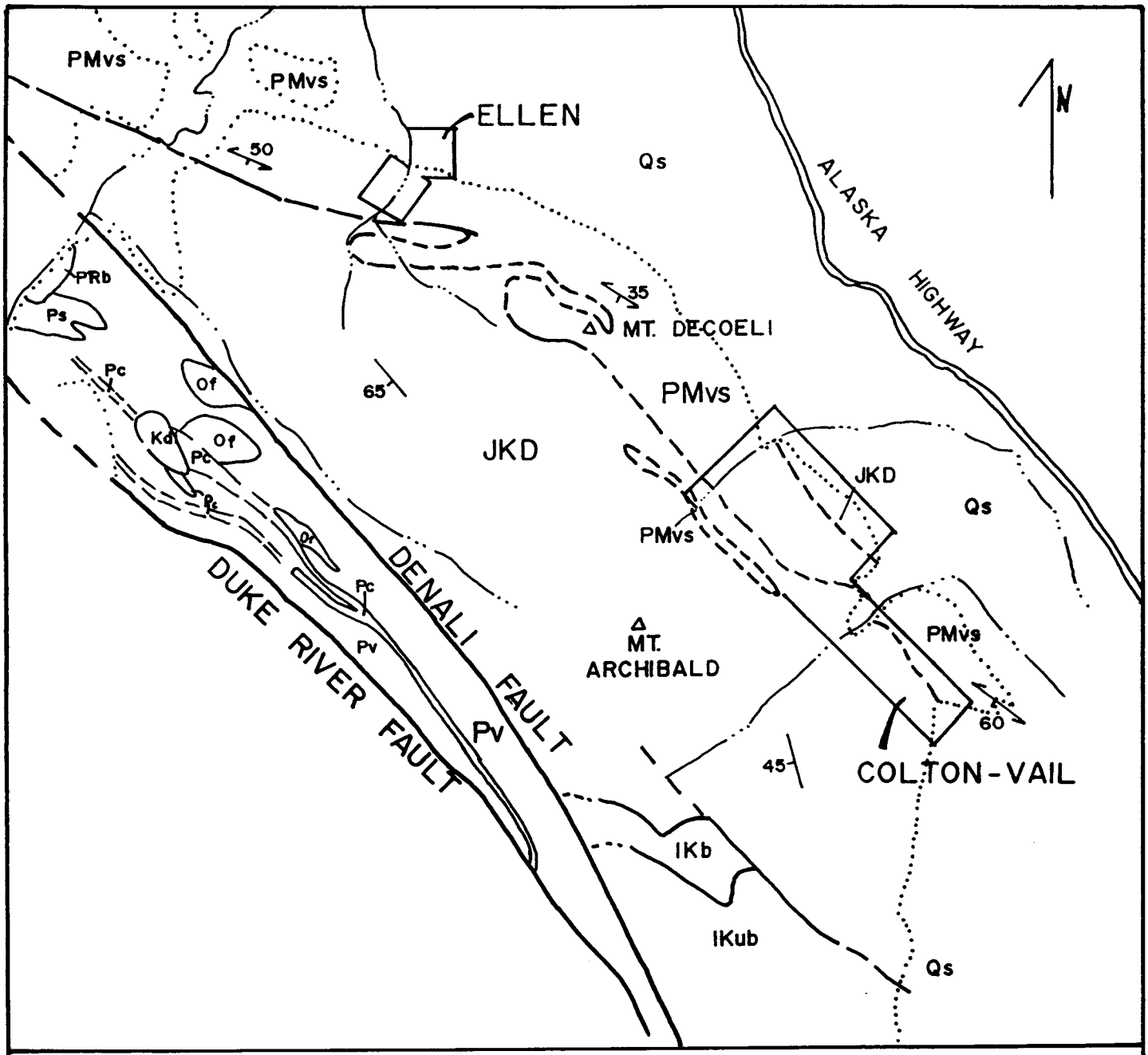
The property is underlain by phyillites of the Dezadeash Group in contact with andesite and mafic intrusive rocks. Canadian Barranca drill logs report pyrite and chalcopyrite in sheared andesite and intercalated peridotite. They also report weakly mineralized sections of talc, graphitic schist and gneiss.

RECENT EXPLORATION

G. Harris and R. Stack prospected the claims in June, 1987. They collected two rock samples from pits beside the old cat road. Both samples consisted of greywacke containing approximately 5% chalcopyrite. The following results were obtained.

Sample Number	Type	Pt ppb	Pd ppb	Au ppb	Cu %	Ni ppm	Co ppm	Cr ppm
9007	grab	<15	20	15	2.09	59	55	222
9013	grab	30	15	70	2.67	48	43	423

In June, 1989 R. Stack used explosives to clear away overburden on the east side of the gully, bellow the old drill sites. He exposed layers of chalcopyrite and pyrite bearing shale through a 7 m wide section. The mineralization is stratabound and can be traced along strike for approximately 50m. The horizon strikes 110 deg. and dips 20 deg. to the south. The sulphide minerals occur with quartz in bands and veins within the sedimentary layers. Vivid malachite and azurite staining cover the mineralized strata. Three distinct mineralized horizons were sampled on the east side of the gully (see Plate 1). The following results were obtained in rock samples taken by B. Harris at the showing:



LEGEND

STRATIFIED ROCKS

QUATERNARY

Qs undivided surficial deposits

JURASSIC & CRETACEOUS

JKD Dezadeash Group greywacke, sandstone, siltstone, argillite, conglomerate

PALEOZOIC &/OR MESOZOIC

PMvs greenstone, greenschist, minor argillite and greywacke

CARBONIFEROUS TO PERMIAN

Skolai Group
Pc Hansen Creek Fmn. limestone
Pv Station Creek Fmn. volcanics

INTRUSIVE ROCKS

TERTIARY

Of felsite, qtz. latite porphyry

LOWER CRETACEOUS

IKb, IKub Pyroxenite Creek Ultramafic Complex

SYMBOLS

Geological boundary, defined, approx.

High angle fault, defined, approx.

Bedding, strike-dip

Foliation, cleavage, strike-dip

60

45

HARJAY EXPLORATION LTD.		
GEOLOGY JARVIS RIVER, YUKON TERR.		
NTS 115 A 13	TECH.	DATE OCT. 89
SCALE 1:125,000	DRAFT. GD	FIG. 4

KLOO LAKE

YUKON TERRITORY

Scale: One Inch to One Mile = $\frac{1}{63,360}$

Miles

1 ½ 0 1 2 3

ISOMAGNETIC LINES (total field):

500 gammas . . . . . ~~~

100 gammas . . . . . ~~~

20 gammas . . . . . ~~~

10 gammas . . . . . ~~~

Magnetic depression . . . . . ▲▲▲

Flight lines . . . . . ⟋⟍⟋

Flight altitude: nominally 1000 feet above ground level where terrain permitted.

50'

60°45'

138°00'

50'

40'

3404 G "Profile Mountain"

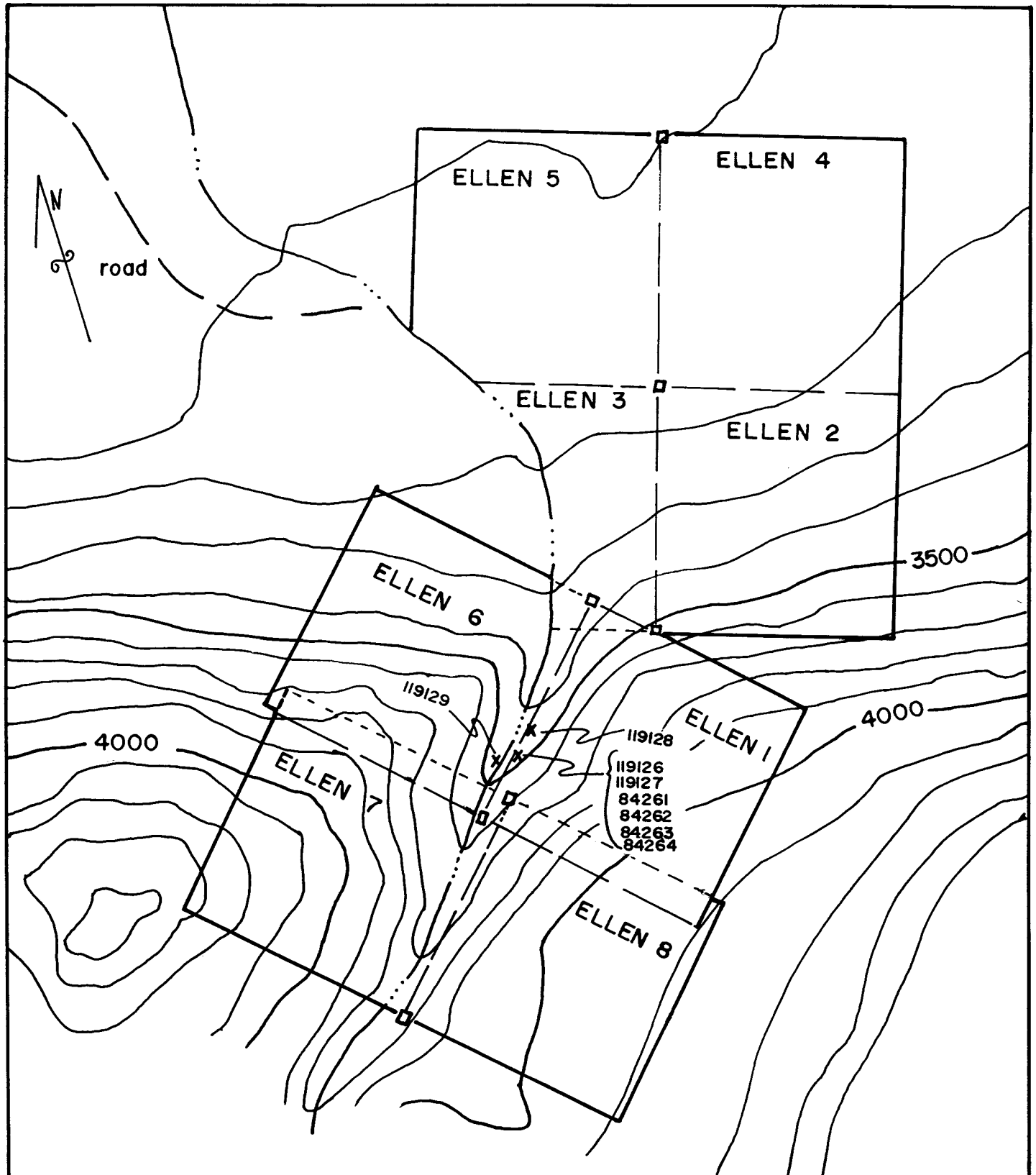
FIGURE - AIRBORNE MAGNETIC SURVEY
from: Geophysics Paper 3291 G.S.C.
NTS 115 A/13

Sample Number	Type	Pt ppb	Pd ppb	Au ppb	Cu %	Ni ppm	Cr ppm
84261	grab	40	10	105	10.1	57	412
84262	.4m	100	<2	<5	2	77	360
84263	.5m	30	15	172	9.6	64	412
84264	1m	<15	20	780	4.68	48	523

Noranda personnel collected four samples from showings on both sides of the gully, as follows:

Sample Number	Type	Cu (%)	Au (PPB)
119126	.75m chip	1.99	36
119127	1.5m chip	1.81	250
119128	3.0m chip	0.12	69
119129	2.0m chip	8.55	350

The sample locations are shown in Figure 6 and in Plates 1 & 2.



SAMPLE NUMBER	WIDTH	Au	Pt	Pd	Cu%	Ni	Cr
119126	.75m	36			1.99		
119127	1.5 m	250			1.81		
119128	3.0m	69			.12		
119129	2.0m	350			8.55		
84261	grab	105	40	10	10.08	57	412
84262	.4m	5	100	2	2.0	77	360
84263	.5m	172	30	15	9.6	64	412
84264	1.0m	780	15	20	4.68	48	523

HARJAY EXPLORATION LTD.

PROPERTY PLAN

JARVIS RIVER, YUKON TERR.

Scale	Tech.	Date
1:10,000		Oct. 89
NTS 115 A 13	Draft. GD	Fig. 6

PLATE 1

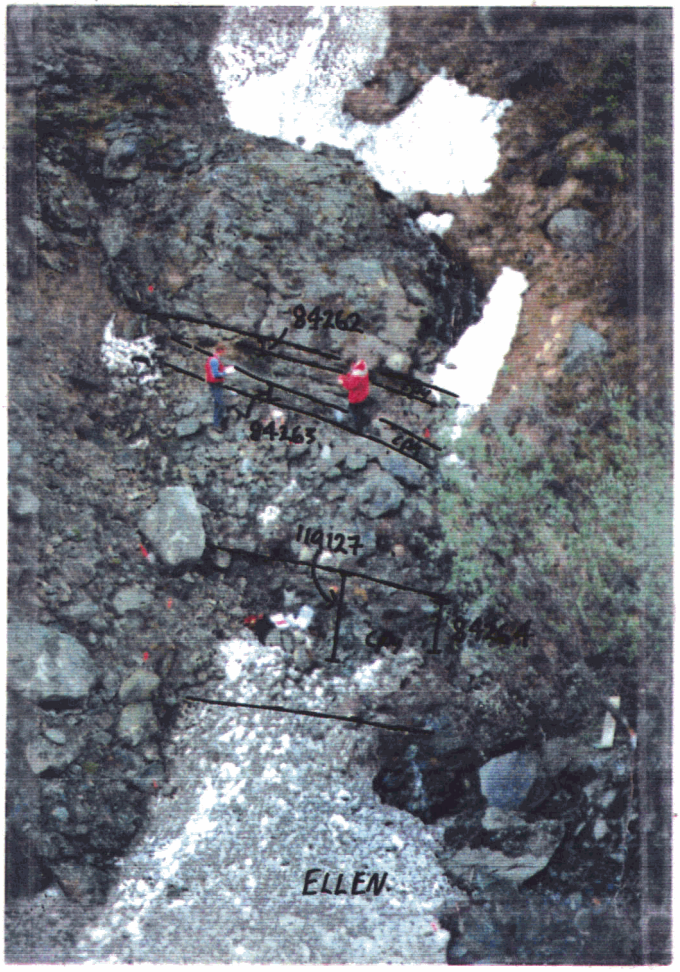


PLATE 2

DISCUSSION AND RECOMMENDATIONS

Canadian Barranca Mines Ltd. intersected copper mineralization over significant widths in drill holes. This mineralization is well exposed on surface over a fifty metre strike length. The style of mineralization suggest that a Cu-Py Type volcanogenic massive sulphide has been located on the property. This type of massive sulphide generally contains a substantial amount of gold.

The Ellen claims deserve a thorough evaluation to assess potential precious and base metal bearing sulphide horizons. The following program is proposed:

Trenching and road work	$ 15,000
Geological mapping	3,500
Grid development	3,500
Geophysical surveys	4,500
Prospecting	1,250
Geochemistry 250 samples	4,500
Camp and support	3,250
Report and assessment	2,500
Contingency	2,000
TOTAL	$40,000

CERTIFICATE

I, GRAHAM DAVIDSON, of the City of Whitehorse, in the Yukon Territory, HEREBY CERTIFY:

1. That I am a consulting geologist and that I participated in the work program described in this report.

2. That I am a graduate of the University of Western Ontario (H. BSc., Geology, 1981).

3. That I am registered as a Professional Geologist by the Association of Professional Engineers, Geologists & Geophysicists of Alberta (No. 42038).

4. That I have been engaged in mineral exploration on a full time basis for nine years in the Yukon and Northwest Territories, and British Columbia.

SIGNED at Whitehorse, Yukon this 15th day of November, 1989.

G.S. DAVIDSON, P.Geol.

STATEMENT OF COSTS

Period: June 1-7, 1989

Personnel:	R. Stack prospector, blaster 4 days	$ 800
	B. Harris prospector 1 day	200
	G. Davidson geologist 2 days	600
Geochemical analysis, Bondar-Clegg		82
Transportation, TNTA jet ranger		620
Camp, transportation and support		350
Explosives		125
Report, preparation, printing, drafting		450
	TOTAL COSTS	$ 3,227

REFERENCES

Antoniuk, T., 1967: Report on the Micro Nickel Project

Baird, J.G., 1969: Report on a Magnetometer Survey, Haines Junction Area for Canadian Barranca Mines Ltd.

Campbell, S.W., 1976: Open File 1976-10, Nickel-Copper Sulphide Deposits in the Kluane Ranges, Y.T.

Canadian Barranca Mines Ltd., 1966-1969 Drill Logs

Open File #829, 1984: G.S.C., Geology of the 115 G Map Sheet

Hulbert, L.J. et. al., 1988: Geological Environments of the Platinum Group Elements

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Geochemical Lab Report

DATE PRINTED: 17-JUL-89

REPORT: V89-03503.0

PROJECT: VAN-ELLEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pt PPB	Pd PPB	Au PPB	Cu PPM	Ni PPM	Cr PPM	
R2 84251		50	10	<5	5	1993	3363	
R2 84252		15	10	<5	143	45	132	
R2 84253		20	2	<5	5	39	202	
R2 84254		30	<2	<5	5	2480	2865	
R2 84255		<15	<2	<5	6	1906	3409	
R2 84256		15	2	<5	5	1747	3638	
R2 84257		<15	<2	<5	5	1459	2978	
R2 84258		20	4	310	1330	1793	2778	
R2 84259		20	10	28	>20000	49	393	
R2 84260		15	20	1476	>20000	71	336	
R2 84261		40	10	105	>20000	57	412	} ELLEN
R2 84263		30	15	172	>20000	64	412	
R2 84264		<15	20	780	>20000	48	523	
R2 84265		15	<2	116	1129	1067	2985	

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

DATE PRINTED: 20-JUL-89

REPORT: V89-03503.6

PROJECT: VAIL-ELLEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PCT
R2 84259		6.30
R2 84260		2.47
R2 84261		10.08
R2 84263		9.60
R2 84264		4.68

Registered Assayer, Province of British Columbia

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 11-JUL-89

REPORT: V89-03508.0

PROJECT: VAIL-ELLEN

SAMPLE NUMBER	ELEMENT UNITS	Pt PPB	Pd PPB	Au PPB	Cu PPM	Ni PPM	Cr PPM
R2 84262		100	<2	<5	19654	77	360

ELLEN CLAIMS - SAMPLE DESCRIPTIONS + VALUES

Sample No.	Sample Type	Location	Description	Au (PPB)	Pt (PPB)	Cu (%)	Ni PPM	Cr PPM
84261	grab	ELLEN #1 - upper shale zone	Chalcopyrite + quartz veins in shale	105	40	10.08	57	412
84262	.4m chip	ELLEN #1 - second highest shale layer	same as above	< 5	100	2.0	77	360
84263	.5m chip	ELLEN #1 - upper shale layer	same as above	172	30	9.60	64	412
84264	1.0m chip	ELLEN #1 - lower shale layer	same as above	780	< 15	4.68	48	523

Ellen

SAMPLE#	Cu %	Au* PPB
119126	1.99	36
119127	1.81	250
119128	.12	69
119129	8.55	350

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. _____

PROPERTY Ellen Claims DATE Aug 15/89

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS							SAMPLED BY
				Cu	Ag						
				%	ppb						HE, RO
119126	east side of creek, upper cpy horizon in shales	rough chip	75cm	1.99	36						
119127	just below 119126 on lower cpy horizon, 4 metres below 119126	rough chip	1.5m	1.81	250						
119128	approx 50-60 metres downstream of 126 & 127 east side of creek, disseminated cpy in shales malachite/azurite staining	rough chip	3.0m	0.12	69						
119129	west side of creek across from 126 & 127 disseminated - semi massive cpy in shales	rough chip	2.0 m	8.55	350						