

MAP NO.: ASSESSMENT REPORT X
115 F 16 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092544
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: PROSPECTING AND BLASTING

REPORT FILED UNDER: Harjay Exploration Ltd.
DATE PERFORMED: October 1987 - September DATE FILED: October 14, 1988
LOCATION: LAT.: 61⁰48'N AREA: Mile 1148 Alaska Highway
LONG.: 140⁰10W VALUE \$: 1,400.00
CLAIM NAME & NO.: CWL 1-14 YA97373-382, YA98058-061

WORK DONE BY: G.S. Davidson
WORK DONE FOR: Harjay Exploration Ltd.

DATE TO GOOD STANDING:

REMARKS: #27 LIBERTY
In 1987 blast trenching exposed quartz-calcite veins which assayed up to 13.7 g/t Au and 0.9% Cu. Further prospecting in 1988 located more narrow quartz veins with galena and chalcopryrite, 250 m uphill from the 1987 discovery.



M.R. file no.
R.M.M.R. file no.
Date forwarded 17 October 88

TRANSMITTAL FORM

From Mining Recorder at: Whitehorse

To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims <u>1-10 YA97375 - YA97382</u>	Claim sheet no.
<input type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <u>CWL 1-14 11-14 YA98058 - YA98061</u>	Claim sheet no. <u>115-16</u>
	Type of report <u>Prospecting, Blasting</u>	Submitted by <u>G. Davidson / HANAY Expl.</u>
	Cl. work performed on <u>CWL 1-2, 13-14</u>	\$ req. for ren. application <u>\$1400.00</u>

Signature

092544

Date returned
27 Oct 88

REPLY ACTION



Approved for amount required

#27 LIBERTY

092544

[Signature]
Signature

ASSESSMENT REPORT

ON THE

CWL 1-14 MINERAL CLAIMS
KLUANE RANGE
WHITEHORSE MINING DISTRICT

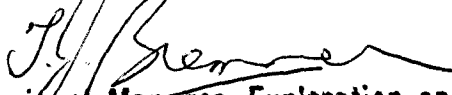
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This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 1400.00.

for


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

1 5 5 0 0

ASSESSMENT REPORT

ON THE

CWL 1-14 MINERAL CLAIMS
YA97373-YA97382, YA98058-YA98061
NTS 115 F-16
WHITEHORSE MINING DISTRICT
LATITUDE $61^{\circ} 48' N$, LONGITUDE $140^{\circ} 10' W$

FOR:

HARJAY EXPLORATION LTD.
17 - 4078 FOURTH AVENUE
WHITEHORSE, YUKON
Y1A 4K8

BY:

G.S. DAVIDSON, P.Geol.
OCTOBER, 1988

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INTRODUCTION

The CWL claims cover gold bearing quartz and quartz-carbonate veins occurring in tuffs and mafic flows located along the front of the Kluane Ranges near the KOIDERN RIVER. The claims were staked by R. Stack of Whitehorse in May and June, 1987.

R. Stack and G. Harris prospected the property in July and August, 1987. The writer and R. Stack performed blast trenching on several quartz veins in October, 1987. This report describes the results of the prospecting and blasting work.

LOCATION AND ACCESS

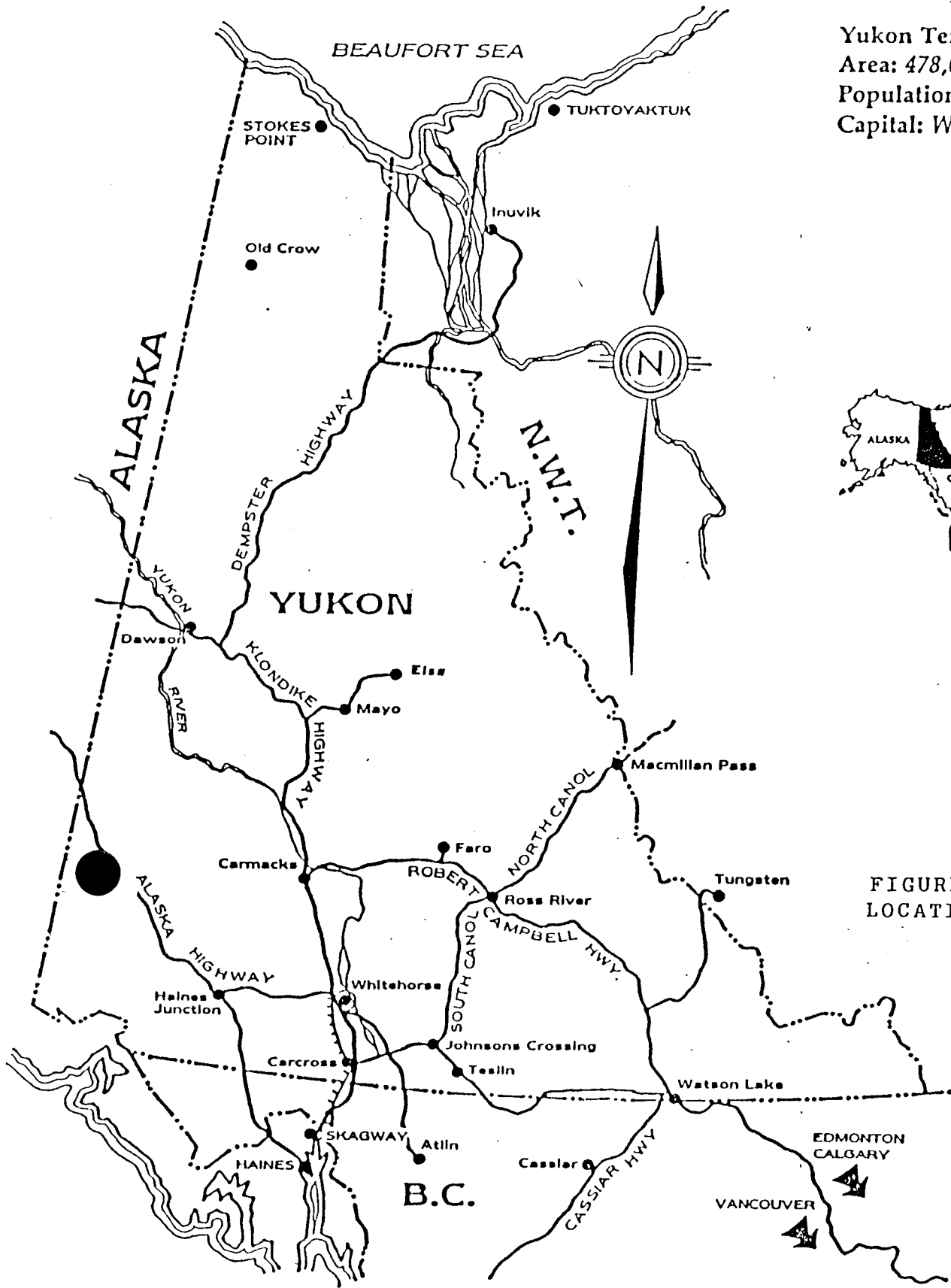
The CWL claims are located 8 km west of the Alaska Highway at Mile Post 1148 and 80 km north west of Burwash Landing in the western Yukon Territory. The property is accessible via a cat road which branches off a gravel road along the north bank of Edith Creek. The cat road is passible to ATV vehicles or on foot.

PHYSIOGRAPHY, CLIMATE, VEGETATION

The claims lie on the western edge of the Skakwak Valley at the base of the Kluane Range. The Skakwak Valley is part of the Denali Fault System which divides the rounded Ruby Range to the east from the steep precipitous mountains of the St. ELLIAS to the west. The Skakwak Valley is extremely swampy and difficult to cross. The CWL claims cover the front slopes and benches of the Kluane Range. They lie between 900 and 1400 m elevation and are covered with thick ground-cover and spruce trees. Several steep stream gullies incise the slope. Outcrop is generally limited to these gullies.

The Koidern area has a northern interior climate where winters are long and cold, with low snowfall. Summer generally lasts from May to September with average temperatures of 12°C. Exploration is practical from May to late September.

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



FIGURE 1
 LOCATION MAP

PROPERTY

The property consists of 14 contiguous mineral claims located by R. Stack of Whitehorse and registered with the district mining recorder in Whitehorse. Figure 2 shows the claim plan and property data is presented in Table I.

TABLE I
CLAIM DATA

Claim Name	Record Number	Expiry Date (*applied for)
CWL 1-10	YA97373 - YA97382	*26 May, 1989
CWL 11-14	YA98058 - YA98061	*29 June, 1989

HISTORY

The region was first explored in the early 1900's by prospectors looking for the sources of placer copper on the upper White River. The Canyon City native copper deposit was discovered in 1905. Limited development work uncovered several large tabular masses of a native copper. In the early days a network of trails were established linking the gold fields in central Alaska to Whitehorse and coastal Alaska. Many miners and prospectors travelled through the district en route to the various gold finds.

In the 1930's, placer miners were active on most of the creeks draining into the Koidern River. Old cabins and sluice boxes mark the areas that were mined.

In the 1950's, the Kluane Ranges were intensely explored for copper-nickel mineralization. Two deposits, Wellgreen and Canalask, were discovered and developed. Hudson Bay Mining and Smelting Company mined the higher grade Wellgreen deposit from 1972 - 1973. It contained a reported tonnage of 728,000 tons grading 2.05% nickel, 1.42% copper, 0.073% cobalt, 0.038 oz/ton platinum, 0.027 oz/ton palladium and 0.005 oz/ton gold. At the Canalask property, an ore body with reserves of 550,000 tons assaying 1.68% nickel, and 0.04% copper was outlined by surface diamond drilling and underground exploration, however no mining took place.

The CWL claim area was originally staked in the early 1950's and was optioned to Canalask Mines Ltd. as part of the Van Bibber Option. This group consisted of 88 claims stretching along the northeastern flank of the Kluane Range. Prospecting and geophysical surveys were performed on the Van Bibber Option however no follow up work was undertaken on the ground covered by the CWL claims.

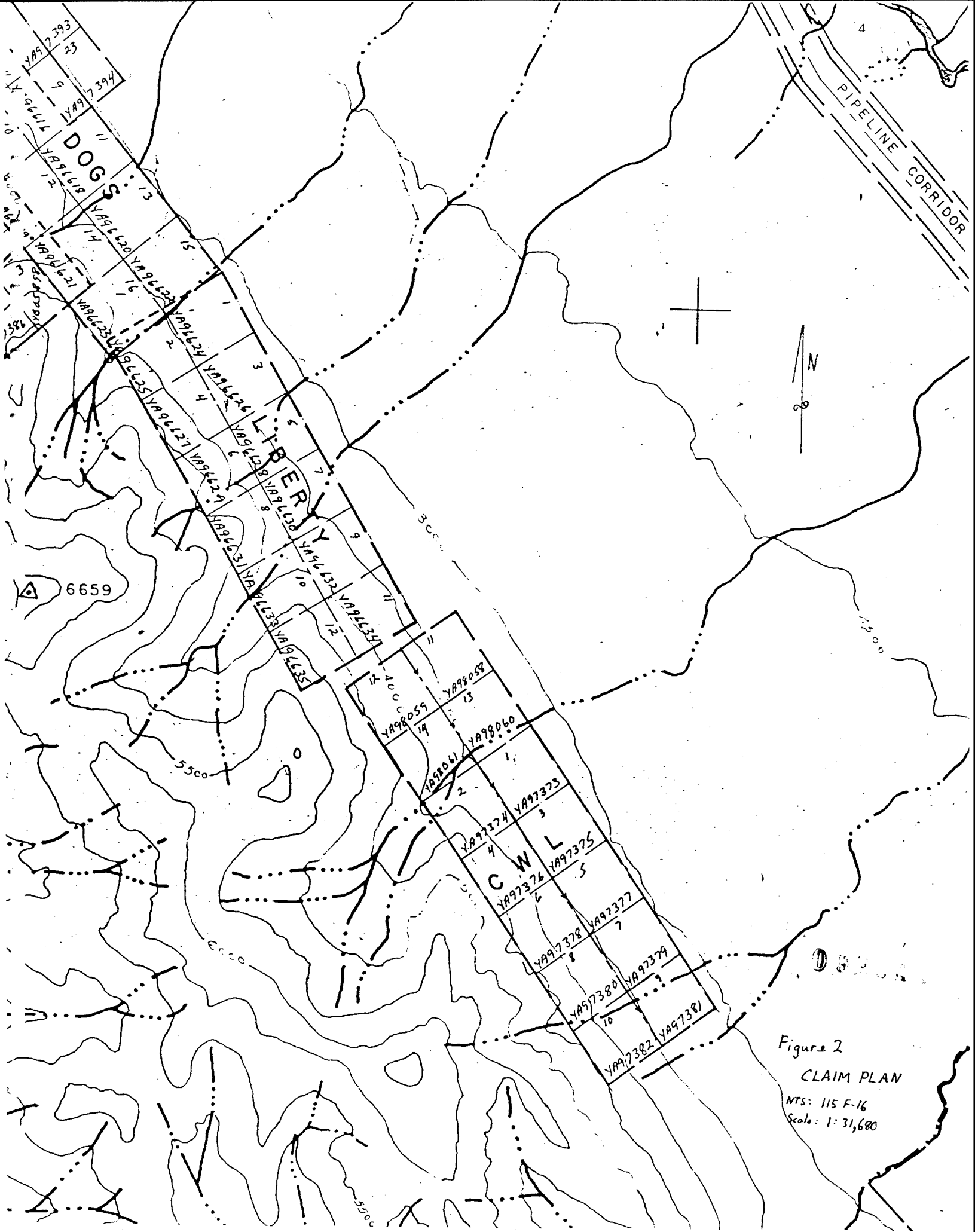


Figure 2
 CLAIM PLAN
 NTS: 115 F-16
 Scale: 1:31,680

By the mid 1960's a second surge of exploration activity was underway in the Kluane Ranges. Most of the area was restaked and cat roads were pushed along the western side of the Skakwak Valley from the Koidern River to access several copper-nickel showings. One of these roads is presently used for access to the CWL claims.

The recent rise in the price of platinum group minerals has prompted another surge of exploration throughout the Kluane Ranges. Resource companies active in the district include All-North Resources Ltd., Chevron Minerals Ltd., Pak-Man Resources Ltd. and Silverquest Minerals Ltd.

REGIONAL GEOLOGY

The Koidern area south of the Skakwak Valley is underlain by Carboniferous to Permian volcanic and sedimentary units of the Skolai Group intruded by granitic and mafic bodies of Cretaceous and Triassic age. The CWL claims lie 2 km west of the Denali Fault, the structural division between the Kluane Ranges and the Ruby Range of the Coast Mountains. The geology of the district was released in Open File #829 by the G.S.C. Figure 3 shows the regional geology.

The Skolai Group consists of two formations; the Station Creek Formation is composed of green cherty tuffs and volcanic breccia; the Hansen Creek Formation consists of argillite, siltstone, greywacke, conglomerate and limestone. Skolai Group strata are foliated parallel to the Denali Fault and contain variable amounts of chlorite, pyrite and base metal sulphides.

Mineralization at the Canlask deposit consists of disseminated pyrrhotite and pentlandite in shattered silicified tuff. The ore zone lies 100 m east of a peridotite sill. The sulphide mineralization was emplaced during or just after intrusion of the peridotite.

EXPLORATION PROGRAM

Prospecting traverses by R. Stack and G. Harris in July and August, 1987 located a system of gold bearing quartz-calcite veins at the south end of the claim block. The writer and R. Stack blasted a trench on the vein zone in October, 1987. Four rock samples were analysed for Au-Pt-Pd-Cu-Ni by Bondar-Clegg laboratories. Sample locations are shown in Figure 4 and sample values and descriptions are listed in Table II.



QUATERNARY Qs undivided surficial deposits	PERMIAN AND/OR TRIASSIC AND/OR (?) CRETACEOUS PRb medium grained pyroene gabbro PRub peridotite, rare dunite
TERTIARY Miocene to Pliocene and (?) Younger Nw Wrangell lava flows, pyroclastics and sediments	PALEOZOIC AND/OR MESOZOIC PRvs metabasic volcanics, schist, marble, minor granite and gneiss Ppt hornfels
PALEOGENE Os Amphitheatre formation: sandstone, conglomerate, mudstone and shale, minor coal	
CRETACEOUS Kg, Kgd Klwone Ranges intrusions: multiphase intrusions, granodiorite	
TRIASSIC URc Chitilstone and Nizina Limestones URN Nikolai Greenstone	
CARBONIFEROUS TO PERMIAN Skatal Group Ps Hansen Creek Formation: argillite, siltstone, greywacke, conglomerates. Pc Hansen Creek Formation: limestone Pv Station Creek Formation: pyroclastics, volcanic breccia and agglomerates	

FIGURE 3
REGIONAL GEOLOGY

NTS 115 F
Scale 1:125,000

SYMBOLS:	
Geological boundary defined:	—————
approx:	- - - - -
assumed:
High-angle Fault defined:	—————
approx:	- - - - -
assumed:
Fold: anticline	↑
syncline	↓
Bedding: strike/dip	——— 60°
Foliation, cleavage: strike/dip	——— 80°

TABLE II
SAMPLE VALUES AND DESCRIPTIONS

SAMPLE NUMBER	TYPE	LOCATION	DESCRIPTION	Au PPB	Pt PPB	Pd PPB	Cu PPM	Ni PPM
17899	grab	south creek gully	Quartz-calcite veining in green silicified tuff, chalcopryrite, galena, limonite	.4ozlt	<15	2	9000	12
17890	grab		Diorite, minor pyrite	160	45	15	170	25
64901	grab	trench	Quartz-calcite vein, galena, chalcopryrite, pyrite and limonite	4000	<15	<2		
64902	grab	trench	Same as above	6400	<15	2	4350	14

The mineralized vein zone is located on the south bank of a creek gully in silicified green tuffs. Quartz-calcite veins up to 20 cm wide occur over a 20m length in outcrop. The outcrop is surrounded by a large area of talus. A trench was blasted across the outcrop exposing limonite-quartz-calcite veining containing 2% chalcopryrite, 2% galena, 1% pyrite, malachite and azurite. The vein zone was not found along strike to the south or north.

DISCUSSION AND RECOMMENDATIONS

An interesting gold showing has been located at the south end of the CWL claims. R. Stack reports (Sept., 1988) that narrow quartz veins containing galena and chalcopryrite have been located approximately 250 m upslope of the gold bearing quartz-calcite veins. A fault may lie along the creek gully which has offset the vein system.

Geological mapping and prospecting and contour soil geochemistry should be undertaken to try and follow the known mineralization and to search for low grade PGE, copper and nickel mineralization.

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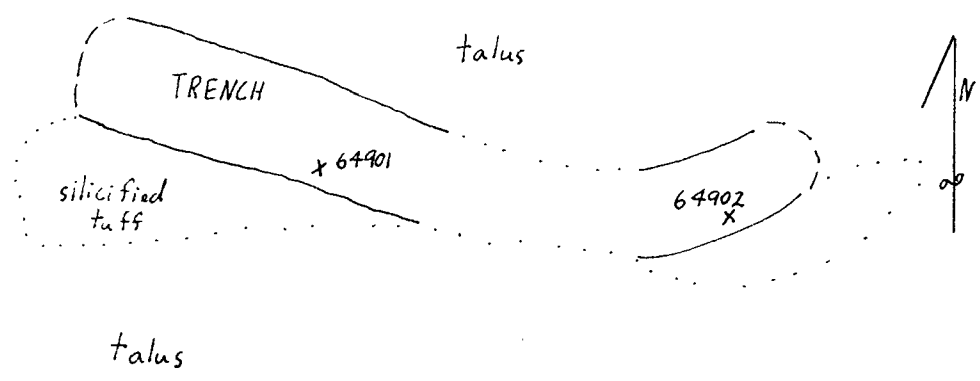
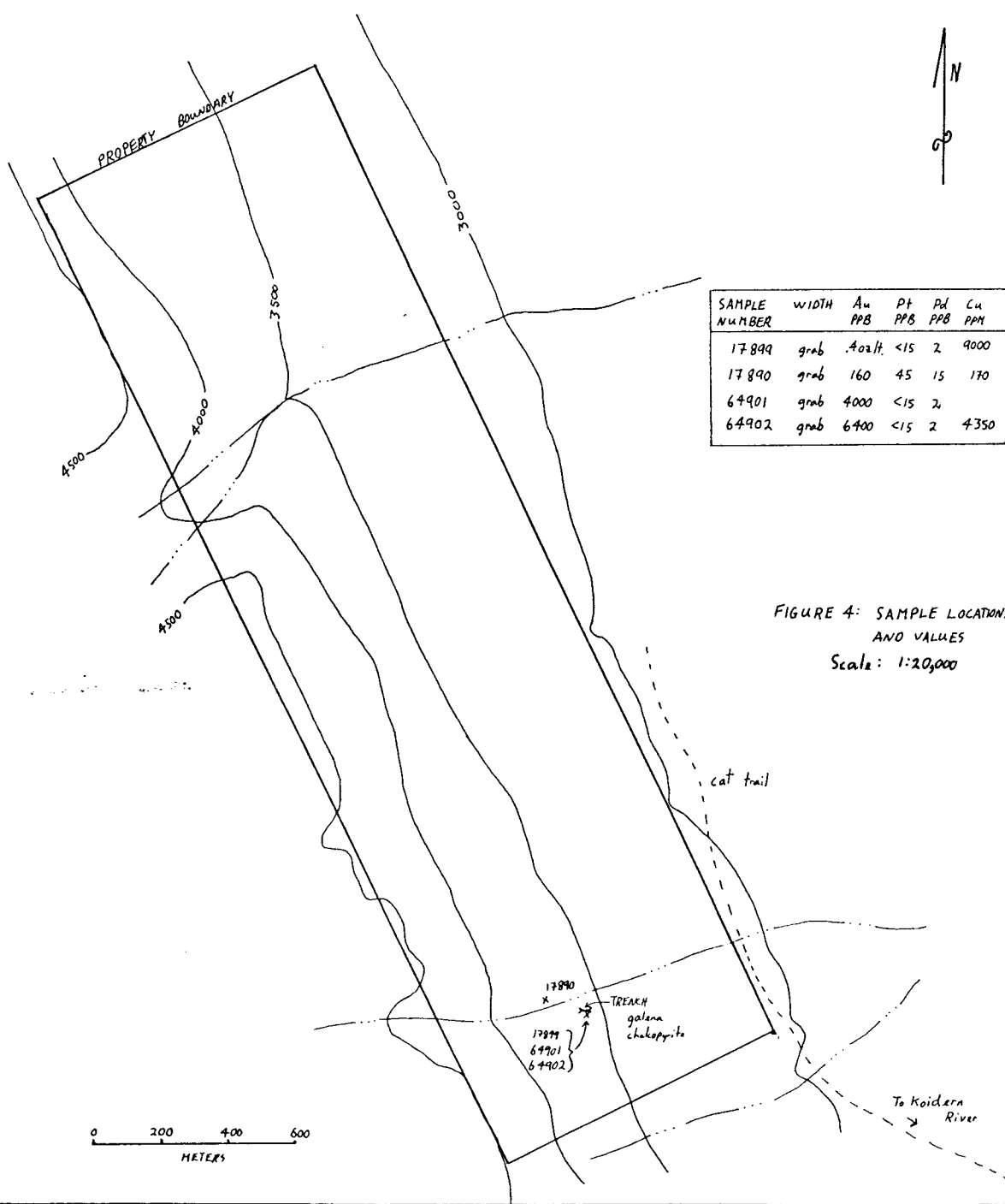


FIGURE 4a: TRENCH PLAN
Scale 1:100



SAMPLE NUMBER	WIDTH	Au PPB	Pt PPB	Pd PPB	Cu PPM
17899	grab	402/t	<15	2	9000
17890	grab	160	45	15	170
64901	grab	4000	<15	2	
64902	grab	6400	<15	2	4350

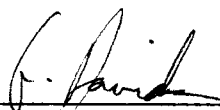
FIGURE 4: SAMPLE LOCATIONS AND VALUES
Scale: 1:20,000

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 supervised and participated in the work program described in this report.
2. That I am a graduate of the University of Western Ontario (H.B.Sc., Geology, 1981).
3. That I am registered as a Professional Geologist by the Association of Professional Engineers, Geologists and Geophysicists of Alberta (#42308).
4. That I have been engaged in mineral exploration on a full and part time basis for seven years, of which five have been spent in the Yukon, Northwest Territories and British Columbia.

SIGNED at Whitehorse, Yukon this day of October, 1988.



G. S. Davidson, P. Geol.

STATEMENT OF COSTS

JULY - OCTOBER, 1987

Personnel:

G. Davidson	1 day	\$ 250.00
G. Harris	2 days	300.00
R. Stack	4 days	600.00

Analyses:

Bondar-Clegg	4 samples	88.00
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Transportation:

Truck	4 days	200.00
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Supplies and Explosives:		150.00
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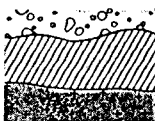
Report, Preparation, Printing, Typing		<u>500.00</u>
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Total Costs		\$2,388.00
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REFERENCES

- Antoniuk, T., 1967: Report on the Micro Nickel Project
- Campbell, S.W., 1976: Open File 1976-10; Nickel-Copper Sulphide Deposits in the Kluane Ranges, Y.T.
- Open File #829, 1984: G.S.C., Geology of 115 F Map Sheet
- Hulbert, L.J., et. al., 1988: Geological Environments of the Platinum Group
Elements.

APPENDIX I - Certificates Of Analyses



Ave.
ver, B.C.
2R5
4) 985-0681
52667

REPORT: 127-4328

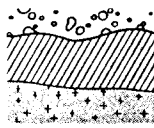
PROJECT: NORTH HIGHWAY

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ni PPM	Au PPB	Pt PPB	Pd PPB
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R2 17889		9000	12	>10000	<15	2	} CWL .4 oz/ton Au
R2 17890		170	25	160	45	15	

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: C4-352667



BONDAR-CLEGG

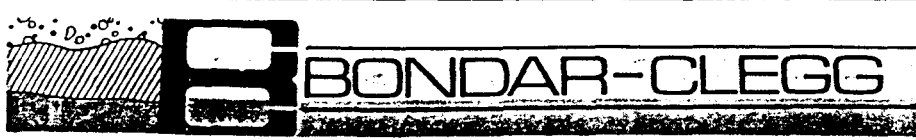
**Certificate
of Analysis**

REPORT: 627-4328

PROJECT: *CWL* NORTH HIGHWAY

PAGE: 1

SAMPLE NUMBER	ELEMENT UNITS	AU OPT
RZ 17889		0.400



ART: V88-01031.0

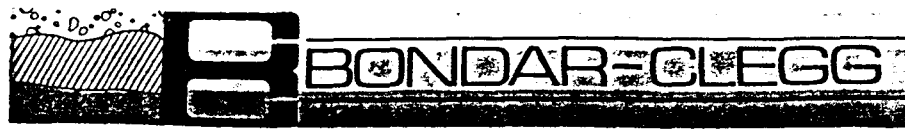
PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Pt PPB	Pd PPB	Ag PPM
R2 64901		4000	<15	<2	2.3

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B.C.
985-0681
2667



REPORT: V88-01031.1

PROJECT: NONE GIVEN

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Pt PPB	Pd PPB	Au PPB	Co PPM	Cr PPM	Cu PPM	Ni PPM	Au 30g PPB	Ag PPM	As PPM	Cu PPM
<i>CUL</i> R2 64902		15	2	400	1	86	350	14				
<i>AND</i> R2 64903		15	2	20	<1	86	19500	5				
<i>FARM</i> R2 64904		15	15	100	9	76	925	16				
<i>SPADIE</i> R2 64905									15	<0.5	42	28

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