

MAP NO.: ASSESSMENT REPORT X
115 G 5, 6 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092537
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: GEOCHEMICAL

REPORT FILED UNDER: Bill Zikos

DATE PERFORMED: June 1-8, 1988 DATE FILED: September 27, 1988

LOCATION: LAT.: 61⁰30'N AREA: Quill Creek
 LONG.: 139⁰30'W VALUE \$: 3,600.00

CLAIM NAME & NO.: GREG 1-36 (YA97738-YA97773)

WORK DONE BY: G.S. Davidson

WORK DONE FOR: Bill Zikos

DATE TO GOOD STANDING:	

REMARKS: #74 SWEDE
Contour soil sampling in 1988 outlined two areas with anomalous values up to 55 ppb Pt, 55 ppb Pd and 104 ppb Au.



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M.R. file no.
R.M.M.R. file no.
Date forwarded 27 September 1988

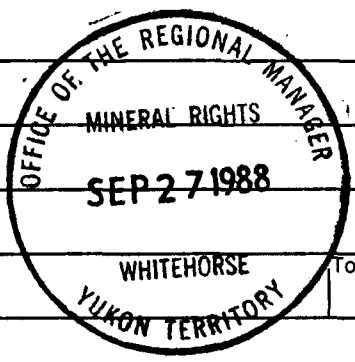
TRANSMITTAL FORM

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	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <u>Greg 1-36 YA97738 - YA97773</u>	Claim sheet no. <u>115-G-5/6</u>
	Type of report <u>Prospecting / sampling</u>	Submitted by <u>G.S. DAVIDSON for Nicholas Zickos</u>
	Cls. work performed on <u>Greg 1-36 YA97738 - YA97773</u>	\$ req. for ren. application <u>3600.00</u>



Signature

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REPLY ACTION

Date returned 7 Oct. 88

#74 SWEDDE

Approved for amount required

Signature

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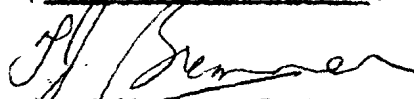
ASSESSMENT REPORT
on the
GREG 1-36 MINERAL CLAIMS
Quill Creek Area
Whitehorse Mining District

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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 \$ 3600.00.



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

ASSESSMENT REPORT

on the

GREG 1-36 MINERAL CLAIMS

YA97738-YA97773

NIS 115 G

Whitehorse Mining District
Lat. $61^{\circ} 30' N$ Long. $139^{\circ} 30' W$

For:

BILL ~~NICKOLAS-ZIRKOS~~ ZIKOS
2048 Majestic Cres.
Clearbrook, B.C.
V2T 3G1

By:

G.S. DAVIDSON
Consulting Geologist
17-4078 Fourth Avenue
Whitehorse, Yukon
Y1A 4K8

September, 1988

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Appendix 1 Certificate of Analysis

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INTRODUCTION

The GREG claims cover the front mountain range of the Kluane Ranges near Quill Creek, Yukon. They overlie Skolai Group rocks which host the nearby Wellgreen deposit. The Wellgreen is presently the focus of an advanced exploration program investigating a large tonnage lowgrade nickel, copper and platinum group element deposit.

MBW Survey Ltd. secured the writer to prepare this report which is based on an exploration program undertaken from June 1 - 8, 1988. The writer visited the property in June and has worked throughout the Kluane area over the past six years.

LOCATION AND ACCESS

The claims are located 2 km south of the Shakwak Valley and 7 km southeast of Mile 1110 on the Alaska Highway. The town of Destruction Bay is 30 km south and Whitehorse is 275 km southeast of the property.

The claims are accessible by a gravel road which connects the Wellgreen property to the Alaska Highway. This road follows Quill Creek and passes within 200 m of the eastern property boundary. The total road distance from Whitehorse to the property is 280 km.

PHYSIOGRAPHY, CLIMATE AND VEGETATION

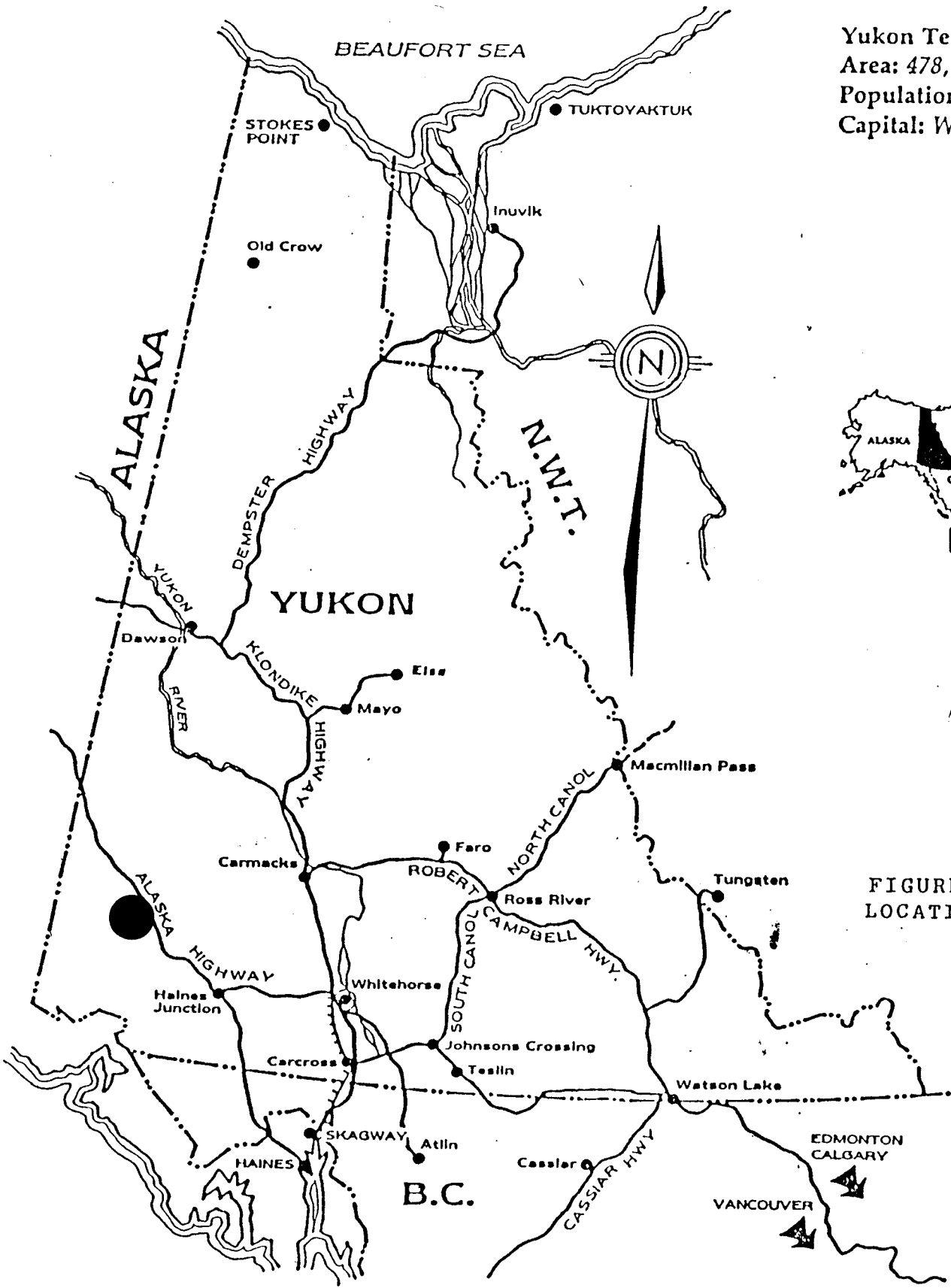
The claims are situated in the Kluane Range of the St. Elias Mountains close to the Shakwak Valley. The Shakwak Valley is a major structural depression and part of the Denali Fault system. The claims cover a high northwesterly trending ridge with rises to over 2100 m elevation. Steep sided valleys and precipitous slopes descend from the ridge top to the Shakwak Valley floor at 1000m elevation.

The Quill Creek area features a northern interior climate with long cold winters and low annual precipitation. The exploration season stretches from June to late September in the mountains.

Vegetation consists of spruce and poplar trees below 1400 m elevation and alpine grasses and moss at higher elevation. Alder and buck brush form a thick ground cover on lower slopes.

PROPERTY

The GREG 1-36 mineral claims are registered with the district mining recorder in Whitehorse, Yukon. The claims were staked on June, 1987 and are held by N. Zirkos. An expiry date of June 23, 1989 has been applied for.



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

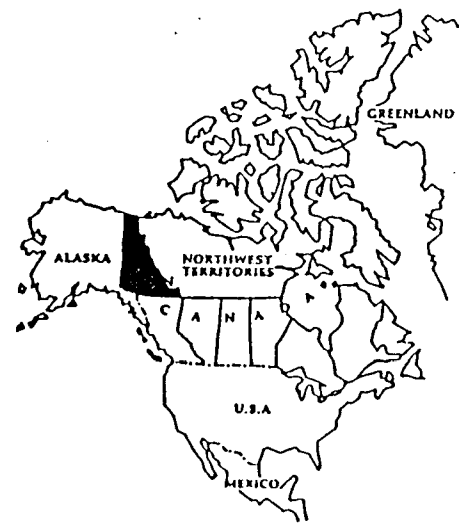
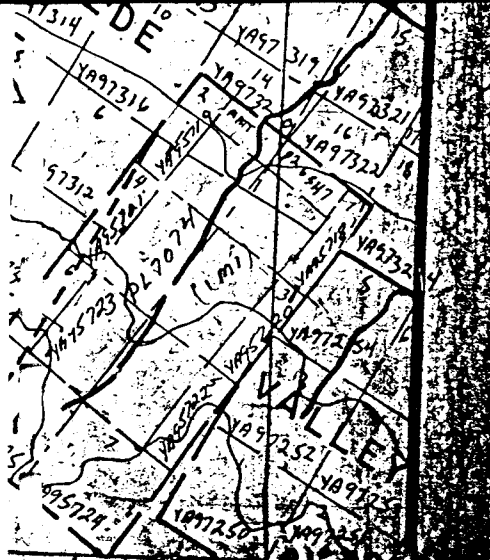
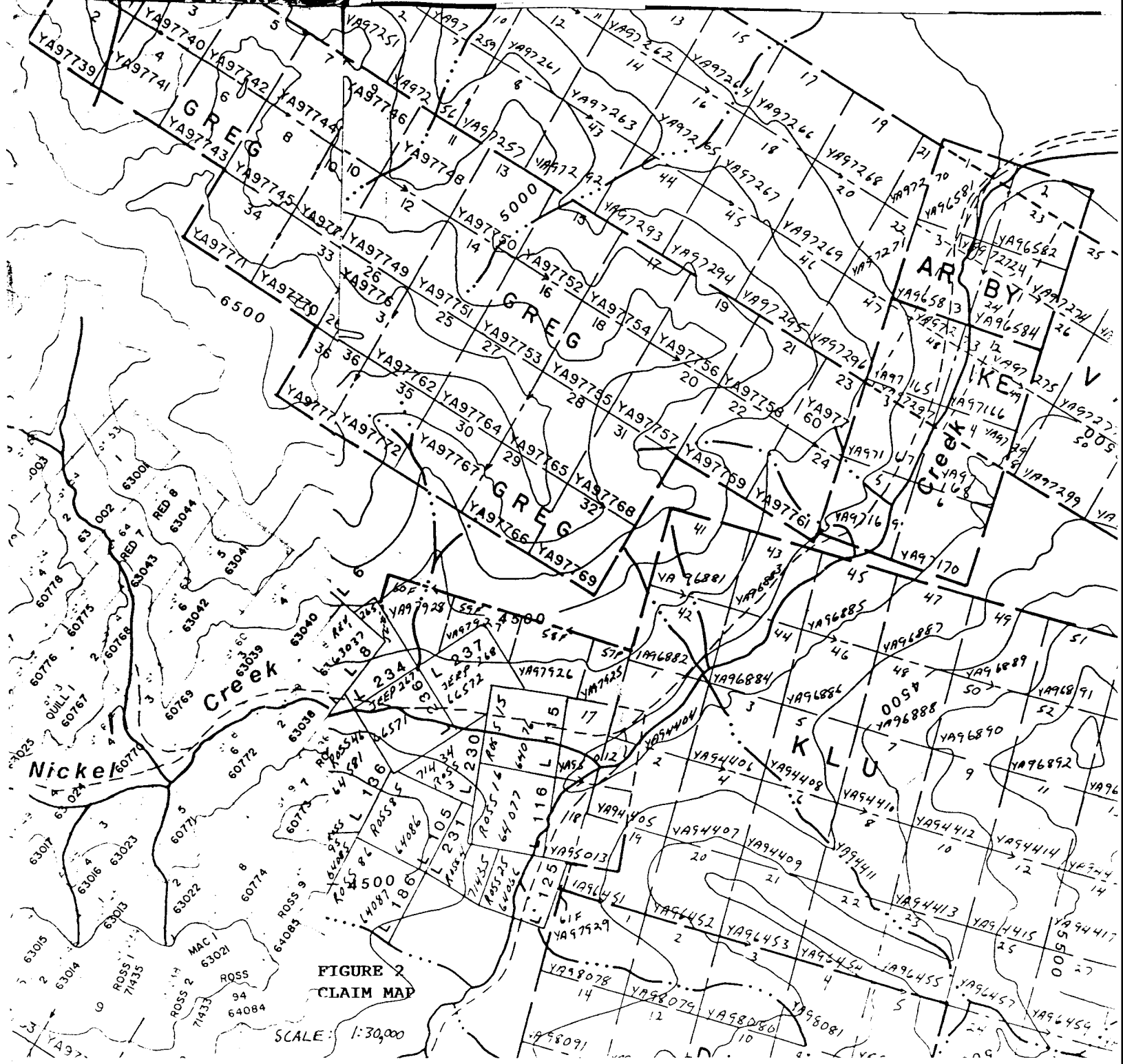


FIGURE 1
 LOCATION MAP

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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. One native copper deposit (Canyon City) was discovered in 1905. Limited development work uncovered several large tabular masses of native copper.

In the 1930's, placer miners were active on Quill, Arch, Wade and Swede Johnson Creeks. 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.

On the GREG claims no recorded exploration has taken place.

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 Inc. and Silverquest Resources.

REGIONAL GEOLOGY

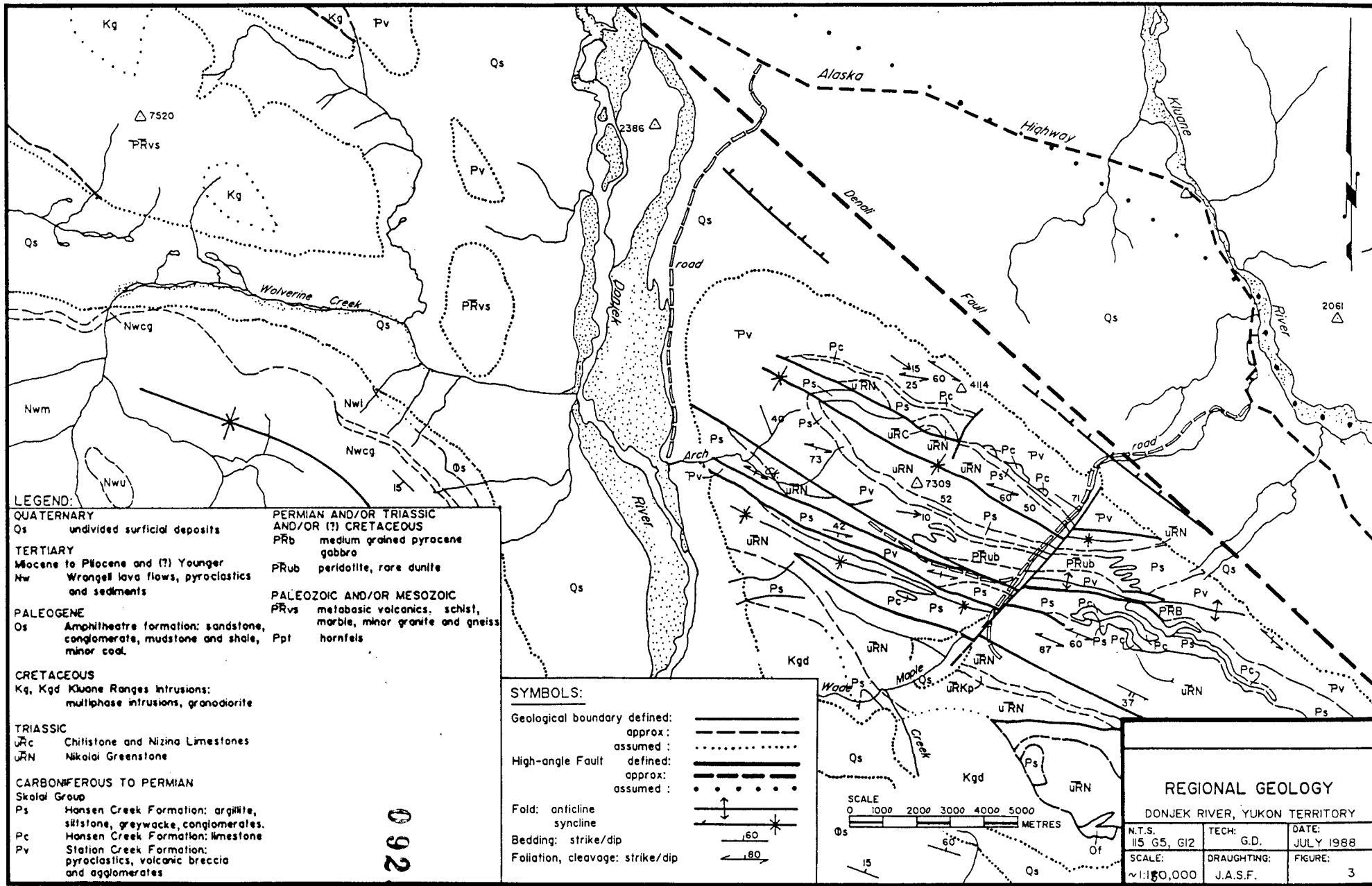
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The Quill Creek area is underlain by Carboniferous to Permian and Triassic sedimentary and volcanic units intruded by granitic and mafic bodies of Permian, Triassic and Cretaceous age. The general geology of the district was released in Open File #829 by the G.S.C. The Regional Geology is shown in Figure 3.

The property lies 2 km south of the Denali Fault, the structural division between the Kluane Ranges and granitic rocks in the Ruby Ranges of the Coast Mountains. In the Kluane Range the Carboniferous to Permian Skolai Group is the most common group. It consists of green cherty tuffs and volcanic breccia of the Station Creek formation and argillite, siltstone, greywacke, conglomerate and limestones of the Hansen Creek formation. The Skolai Group is foliated parallel to the Denali Fault and contains, chlorite, pyrite and other base metal sulphide minerals.

Triassic Nikolai greenstone also occurs extensively in the Kluane Ranges. It consists of fine to medium grained mafic flows which weather to a dark green or purple colour.

Sills and elongated bodies of peridotite and gabbro occur in the tuffaceous rocks of the Skolai Group. The gabbros, serpentized peridotites and enclosing rocks host nickel and copper mineralization which contain low grades of platinum group metals.

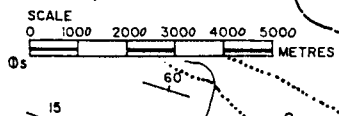


LEGEND:

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

SYMBOLS:

Geological boundary defined:	
approx:	
assumed:	
High-angle Fault defined:	
approx:	
assumed:	
Fold: anticline	
syncline	
Bedding: strike/dip	
Foliation, cleavage: strike/dip	



REGIONAL GEOLOGY		
DONJEK RIVER, YUKON TERRITORY		
N.T.S.	TECH: G.D.	DATE: JULY 1988
1:50,000	DRAUGHTING: J.A.S.F.	FIGURE: 3

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EXPLORATION PROGRAM

In June, 1988 S. Ridgway and M. Glynn performed a prospecting and reconnaissance sampling program on the GREG claims. Camp was established on Quill Creek just west of the junction with Nickel Creek. Four man-days of prospecting and contour sampling traverses were undertaken on the claims. Figures 4, 5 and 6 show the sample sites and values. Table 1 presents rock sample descriptions and values.

The property is underlain by Permo-Triassic volcanic and sedimentary rocks intruded by bodies of Triassic gabbro. Most of the samples recorded weakly anomalous values in Pt and Pd, consistent with results obtained from gabbroic source rocks throughout the district. Sample values in Cu are also elevated, however little correlation exists between Cu and Pt-Pd.

Two anomalous areas were outlined by the contour soil sampling. On contour soil line GS-1 above background Pt-Pd values extend from station 3+00 to 6+00 and on contour soil line GS weakly anomalous Pt values extend from 2+00 to 3+50.

DISCUSSIONS AND RECOMMENDATIONS

The presence of gabbroic rocks and the anomalous Pt-Pd values outlined in the June, 1988 work program indicate that there is good potential for discovering platinum group bearing sulphide mineralization on the GREG claims. On the adjoining Wellgreen property altered gabbro's host disseminated chalcopyrite, pyrrhotite and pentlandite. This mineralization assays on average 800 ppb Pt and 833 ppb Pd and composes much of the low grade ore delineated as reserves.

Further prospecting and sampling is required to try and locate nickel-copper sulphide mineralization on the GREG claims. Traverses should target contacts between gabbroic rocks and Permo-Triassic sediments and volcanics of the Skolai Group. An exploration program is proposed as follows:

Prospecting	10 man days	\$ 2,500.00
Geological mapping	10 man days	3,000.00
Geochemistry	250 samples Au-Pt-Pd-Cu-Ni	4,500.00
Camp and support		2,000.00
Transportation - truck and helicopter		3,000.00
Report and assessment		2,500.00

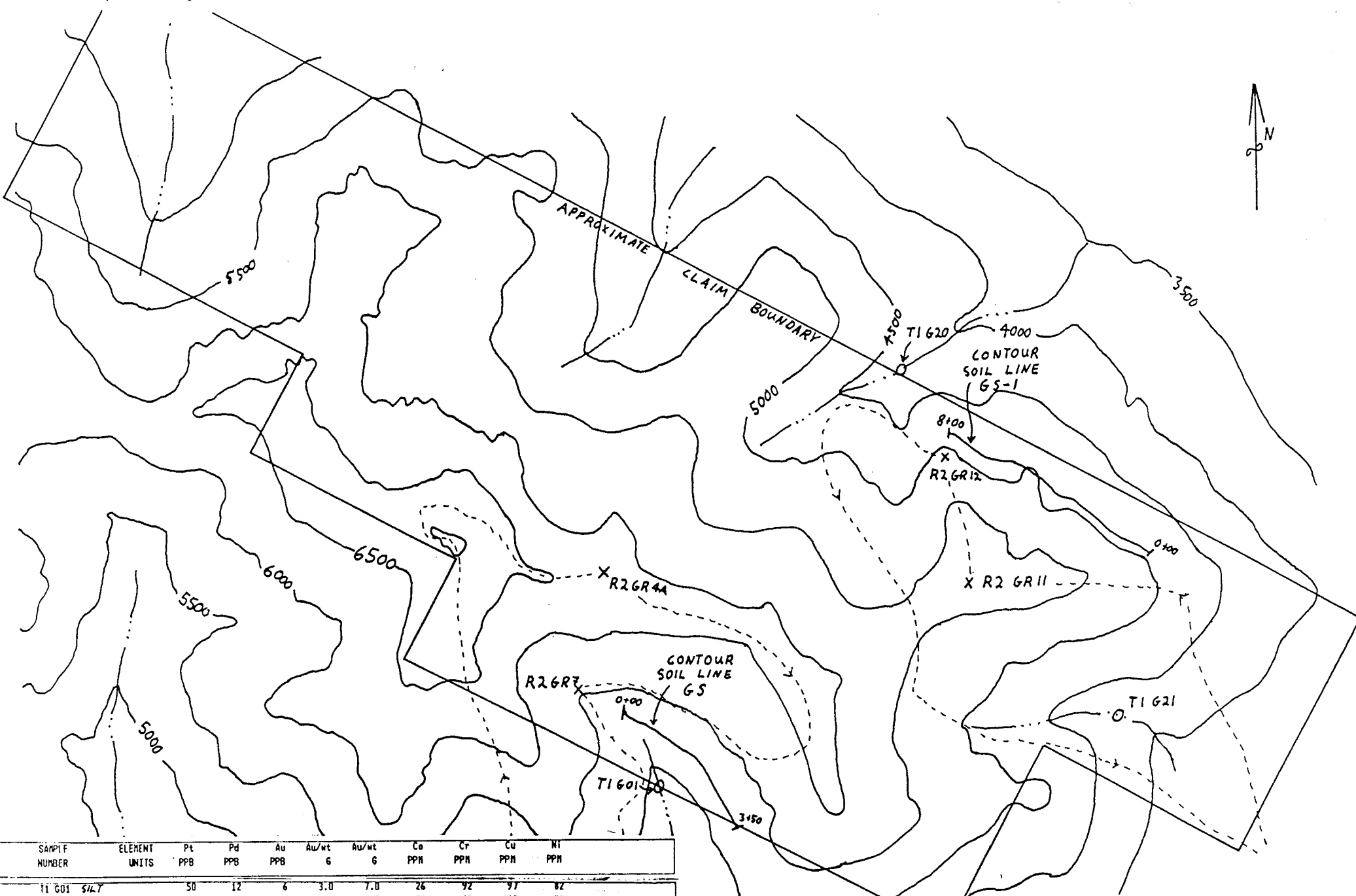
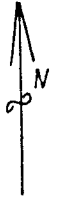
\$17,500.00

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TABLE I - ROCK SAMPLE VALUES AND DESCRIPTIONS

Sample No.	Sample Type	Location	Description	Au (ppb)	Pt (ppb)	Pd (ppb)	Cu (ppm)
R2 GR4A	grab	Ridge Top 6,300' ASL	Gabbro containing nmedium grained hornblende	13	25	30	341
R2 GR7	grab	Creek Valley at 5,600' ASL	Chloritic tuff	9	40	35	1550
R2 GR11	grab	Ridge Top 5,900' ASL	Gabbro	9	20	55	222
R2 GR12	grab	North Slop	Banded limestone, silicified	<5	25	15	40

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SAMPLE NUMBER	ELEMENT UNITS	Pt PPB	Pd PPB	Au PPB	Au/wt G	Au/wt G	Co PPM	Cr PPM	Cu PPM	Ni PPM
T1 G01	SILT	50	12	6	3.0	7.0	26	92	97	82
T1 G20	SILT	25	30	<5	2.0	8.0	26	68	119	58
T1 G21	SILT	25	25	6	15.0		26	59	94	57
R2 GR4A	ROCK	25	30	13	15.0		26	40	341	35
R2 GR7	ROCK	40	35	9	15.0		26	120	1550	85
R2 GR11	ROCK	20	55	9	15.0		25	32	222	30
R2 GR12	ROCK	25	15	<5	15.0		<1	25	40	10

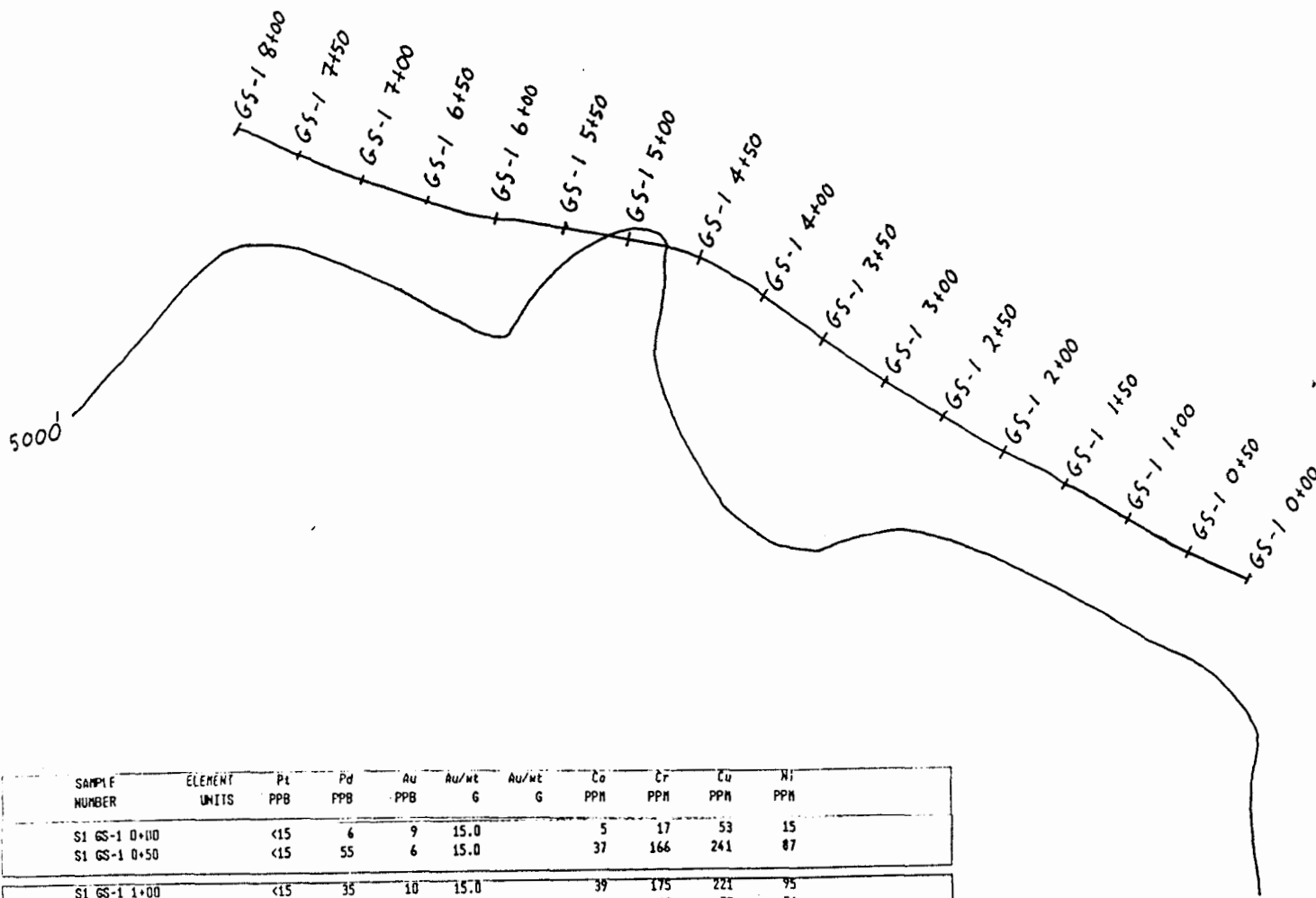
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GREG CLAIMS

Fig. 4 ROCK, SILT AND SOIL SAMPLE LOCATION

NTS: 115 G

SCALE: 1:20,000



SAMPLE NUMBER	ELEMENT UNITS	Pt PPB	Pd PPB	Au PPB	Au/mt G	Au/mt G	Co PPM	Cr PPM	Cu PPM	Ni PPM
S1 GS-1 0+00		<15	6	9	15.0		5	17	53	15
S1 GS-1 0+50		<15	55	6	15.0		37	166	241	87
S1 GS-1 1+00		<15	35	10	15.0		39	175	221	95
S1 GS-1 1+50		15	8	5	15.0		22	85	70	54
S1 GS-1 2+00		<15	6	<5	15.0		5	13	46	12
S1 GS-1 2+50		15	15	5	15.0		26	125	136	72
S1 GS-1 3+00		50	20	13	15.0		24	99	132	58
S1 GS-1 3+50		15	15	15	15		15	15	15	15
S1 GS-1 4+00		40	35	13	15.0		31	128	279	74
S1 GS-1 4+50		50	30	10	15.0		34	118	249	72
S1 GS-1 5+00		40	25	7	15.0		28	150	205	72
S1 GS-1 5+50		40	35	12	15.0		25	134	216	65
S1 GS-1 6+00		20	30	19	15.0		25	111	206	62
S1 GS-1 6+50		15	15	15	15		15	15	15	15
S1 GS-1 7+00		15	15	15	15		15	15	15	15
S1 GS-1 7+50		<15	35	7	15.0		25	118	136	65
S1 GS-1 8+00		15	15	15	15		15	15	15	15

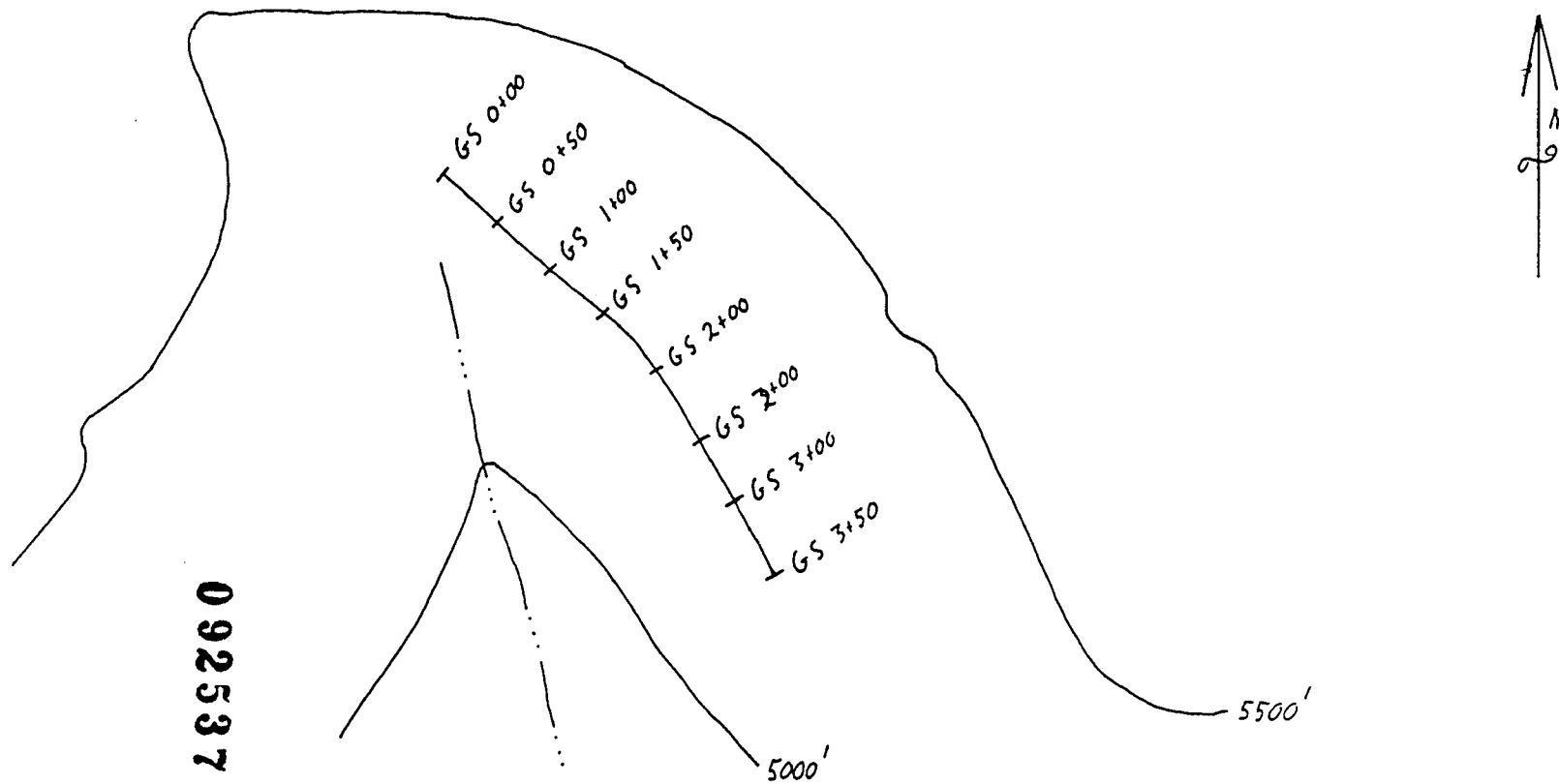
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GREG CLAIMS

Fig. 5

CONTOUR SOIL LOCATIONS AND VALUES

NTS: 115 G-6 SCALE 1:5,000



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SAMPLE NUMBER	ELEMENT UNITS	Pt PPB	Pd PPB	Au PPB	Au/wt G	Au/wt G	Co PPM	Cr PPM	Cu PPM	Ni PPM
S1 GS 0+00		<15	15	10	15.0		25	63	147	62
S1 GS 0+50		<15	25	9	15.0		25	72	261	71
S1 GS 1+00		15	15	<5	15.0		22	68	145	62
S1 GS 1+50		<15	4	104	15.0		10	26	43	24
S1 GS 2+00		40	2	13	15.0		10	32	38	29
S1 GS 2+50		40	10	6	15.0		19	57	134	52
S1 GS 3+00		55	2	<5	11.0		8	20	37	19
S1 GS 3+50		40	10	5	15.0		20	60	150	60

GREG CLAIMS

Fig. 6 CONTOUR SOIL LOCATIONS AND VALUES

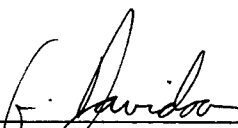
NTS: 115 G-6 SCALE 1:5,000

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 reviewed 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 20 day of September, 1988.



G. S. Davidson, P. Geol.

992587

STATEMENT OF COSTS

WORK PERIOD: June 1 - 8, 1988

Personnel:	S. Ridgeway	-	3.5 man days	\$ 875.00
	M. Glynn	-	3.5 man days	875.00
Sample Analyses:	Bondar & Clegg			647.00
Truck, ATV rental				300.00
Camp, supplies, fuel				300.00
Report:	Preparation, drafting, typing			875.00
				<hr/>
	TOTAL			\$3,872.00

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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

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APPENDIX - CERTIFICATE OF ANALYSIS

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REPORT: V88-03986.0

PROJECT: GREG PROPERTY

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pt PPB	Pd PPB	Au PPB	Au/wt G	Au/wt G	Co PPM	Cr PPM	Cu PPM	Ni PPM
S1 GS 0+00		<15	15	10	15.0		25	63	147	62
S1 GS 0+50		<15	25	9	15.0		25	72	261	71
S1 GS 1+00		15	15	<5	15.0		22	68	145	62
S1 GS 1+50		<15	4	104	15.0		10	26	43	24
S1 GS 2+00		40	2	13	15.0		10	32	38	29
S1 GS 2+50		40	10	6	15.0		19	57	134	52
S1 GS 3+00		55	2	<5	11.0		8	20	37	19
S1 GS 3+50		40	10	5	15.0		20	60	150	60
S1 GS-1 0+00		<15	6	9	15.0		5	17	53	15
S1 GS-1 0+50		<15	55	6	15.0		37	166	241	87
S1 GS-1 1+00		<15	35	10	15.0		39	175	221	95
S1 GS-1 1+50		15	8	5	15.0		22	85	70	54
S1 GS-1 2+00		<15	6	<5	15.0		5	13	46	12
S1 GS-1 2+50		15	15	5	15.0		26	125	136	72
S1 GS-1 3+00		50	20	13	15.0		24	99	132	58
S1 GS-1 3+50		IS	IS	IS	IS		IS	IS	IS	IS
S1 GS-1 4+00		40	35	13	15.0		31	128	279	74
S1 GS-1 4+50		50	30	10	15.0		34	118	249	72
S1 GS-1 5+00		40	25	7	15.0		28	150	205	72
S1 GS-1 5+50		40	35	12	15.0		25	134	216	65
S1 GS-1 6+00		20	30	19	15.0		25	111	206	62
S1 GS-1 6+50		IS	IS	IS	IS		IS	IS	IS	IS
S1 GS-1 7+00		IS	IS	IS	IS		IS	IS	IS	IS
S1 GS-1 7+50		<15	35	7	15.0		25	118	136	65
S1 GS-1 8+00		IS	IS	IS	IS		IS	IS	IS	IS
T1 G01		50	12	6	3.0	7.0	26	92	97	82
T1 G20		25	30	<5	2.0	8.0	26	68	119	58
T1 G21		25	25	6	15.0		26	59	94	57
R2 GR4A		25	30	13	15.0		26	40	341	35
R2 GR7		40	35	9	15.0		26	120	1550	85
R2 GR11		20	55	9	15.0		25	32	222	30
R2 GR12		25	15	<5	15.0		<1	25	40	10

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