





M.R. file no.
R.M.M.R. file no.
Date forwarded <i>18 AUG. 88</i>

TRANSMITTAL FORM

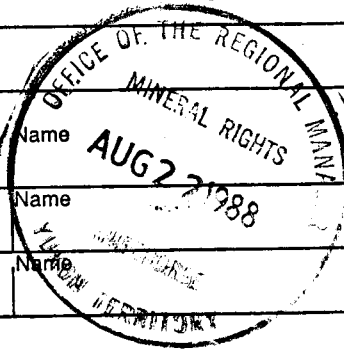
From Mining Recorder at: *WHITEHORSE*

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

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	Lease no.
<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 <i>PC 1-50 497796-815</i>	Claim sheet no. <i>115-6-5</i>
	Type of report <i>GEOLOGICAL GEOCHEMICAL</i>	Submitted by <i>DAWSON EL DORADO MINES</i>
	Cl. work performed on /	\$ req. for ren. application <i>5000.00</i>

*[Signature]*  
Signature



Date returned  
*7 Dec. 88*

REPLY ACTION

*Approved for amount required  
(PC claims (092601) and DON claims (092602)  
jointly approved for \$8800.00)*

**092601**

*[Signature]*  
Signature

FROM / DE

Irene Bremner (Geology)

File No. (originator) — Dossier n° (source)

TO / À

Whitehorse Mining Recorder  
Attention: Glena

File No. (addressee) — Dossier n° (destinataire)

Subject - Objet

Re Dow 1-44 and PC 1-50 claims (115 G S)  
submitted by P.D. Van Angeren

Please ask for breakdown of MBW's costs  
(\$4000.00 item on attached sheet).

This is not detailed in either of the reports.

Also, please check the circled area on attached  
map if grouping is required.

Signature

*Irene Bremner*

Date

21 Sept 88

Telephone

667-3203

Reply - Réponse

Trans: is this satisfactory  
or do you wish me to  
write to MBW for details.  
M. Fox

17 Oct 1988

092602

Signature

Date

Telephone

ADDRESSEE  
DESTINATAIRE

Please add reply — Keep this copy and return copy 2 to originator.  
Inscrire la réponse — Garder cette copie et expédier la copie 2 à l'initiateur.



FROM  
DE

Irene Brenner (Geology)

File No. (originator) — Dossier n° (source)

TO  
A

Whitehorse Mining Recorder  
Attention: Yenna

File No. (addressee) — Dossier n° (destinataire)

Subject - Objet

-- Re: Dow 1-44 and PC 1-50 claims (115 G S)  
submitted by P.D. Van Angeren

Please ask for breakdown of MBW's costs  
(\$4000.00 item on attached sheet).

This is not detailed in either of the reports.

Also, please check the circled area on attached  
map if grouping is required.

Signature

Date

21 Sept 88

Telephone

667-3203

Reply - Réponse

092602



26 September, 1988

Your file    Votre référence

Gold City Resources Inc.  
810 - 910 - 7th Avenue, S.W.  
Calgary, Alberta  
T8P 3N8

Our file    Notre référence

340-17-6

Dear Sir:

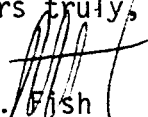
I refer to the Geological/Geochemical report submitted as assessment work in support of work filed in this office for the DON and P.C. mineral claims on the 23rd of June, 1988.

Your report has been evaluated by our Geological Department and they have sent the report back to me for the following information, as required by the Schedule of Representation Work under the Yukon Quartz Mining Act.

As per the attached copy of Statement of Costs you show an amount of \$4,000.00 for field work from the 1st June to 8th June, 1988 by MBE Surveys Ltd. Would you please provide a statement for these costs providing receipts and vouchers.

Once the information has been provided and approved, this office will continue to process your renewal application. If you have any questions concerning this matter, please call me at 667-6849.

Yours truly,

  
M.A. Fish  
Mining Recorder  
Whitehorse Mining District  
Room 201 Federal Building  
Whitehorse, Yukon  
Y1A 2B5

attach.


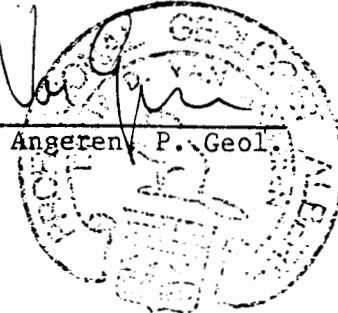
Canada

092602

STATEMENT OF COSTS

(A) Aurum Geological Consultants Inc.;	
Assessment work and Report, PC 1-50:	\$4078.87
(B) MBW Survey Ltd.;	
Field Work - June 1-8, 1988:	4000.00
(C) Bondar Clegg Laboratories;	
Geochemical Analyses - 26 samples:	618.50
(D) Report Preparation	
P. Van Angeren, 3 days @ \$165/day:	<u>495.00</u>
<b>TOTAL VALUATION, ASSESSMENT WORK ON PC &amp; DON CLAIMS:</b>	<b><u><u>\$9192.37</u></u></b>

Respectfully submitted,

  
  
Philip Van Angeren, P. Geol.

Calgary, Alberta,  
July 31, 1988

092602

Morley Barker  
Bus: (403) 668-2467  
Res: (403) 633-2974

# MBW Surveys Ltd.

## Survey and Exploration Services

#5 Teak Avenue  
Whitehorse, Yukon  
Y1A 4W5

JUNE 17 1988

AVANTI MINERALS LTD.  
SUITE 810 910 7 th AVE SW  
CALGARY ALBERTA

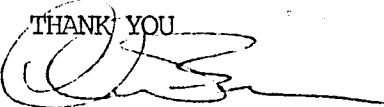
ATTN PAUL S WHITE

RE DON CLAIMS BURWASH AREA CLAIM SHEET 115 g 5

EXPLORATION PROGRAM PERFORMED ON DON CLAIM S BURWASH AREA \$4000.00  
(JUNE 1 to JUNE 8 1988)

TOTAL COST \$4000.00

THANK YOU

  
MORLEY BARKER

092602



**GOLD CITY RESOURCES INC.**

Suite 810, 910 - 7th Ave. S.W., Calgary, Alta. T2P 3N8  
Telephone: (403) 269-2122 FAX: (403) 234-7769



October 3, 1988

Mining Recorder  
Whitehorse Mining District  
Room 201 Federal Building  
Whitehorse, Yukon  
Y1A 2B5

Attention: M.A. Fish

Dear Sir:

Enclosed is a copy of the invoice from MBW Surveys Ltd. pertaining to the assessment work for the DON and P.C. mineral claims. If further particulars about the work are required please contact Mr. Morley Barker of MBW Surveys.

Yours truly,

**GOLD CITY RESOURCES INC.**

John Fast  
Comptroller

JF/ycf  
Enclosure

092002



GEOLOGICAL AND GEOCHEMICAL  
ASSESSMENT REPORT  
ON THE PC 1-50 CLAIMS

Whitehorse Mining District  
Yukon  
October 3, 1987

Claims: PC 1-50 (YA97796-845)

Location: 1. 40 km NW of Burwash Landing  
2. NTS Sheet 115 G/5  
3. Latitude 61 deg 20 min N  
Longitude 139 deg 37 min W

For: Dawson Eldorado Mines Ltd.  
Suite 810, 910-7th Ave. S.W.  
Calgary, Alberta  
T2P 3N8

By: Craig J. R. Hart, B.Sc.,  
&  
R. Allan Doherty, B.Sc.  
Aurum Geological Consultants Inc.  
604-675 West Hastings Street  
Vancouver, B.C.  
V6B 1N2

June 15, 1988

092601

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 \$ 5000.00.

*J. J. Bremner*

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

Approved in conjunction with report  
on the adjoining DON claims  
092602 (Total \$8800 for both groups). *JJB*

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Geology and Geochemistry	in pocket

## SUMMARY

The PC 1-50 and DON 1-44 claims are located in the Kluane Ranges, east of the Donjek River. The area has seen increasing exploration activity with the recent development of the Wellgreen platinum, palladium, gold, copper, nickle mine. The Wellgreen mine is located 5 km east of the PC claim group.

The PC and DON claims were staked in 1987 to cover ground considered to be favourable for PGE and Ni-Cu mineralization. The claims overlie geological elements similar to those of the Wellgreen deposit and other mineral occurrences in the Kluane Ranges.

A brief property examination failed to uncover mineralization or significant geochemical anomalies.

Ultramafic sills and dykes provide the most likely exploration targets and any exploration program should focus on their discovery and evaluation.

## INTRODUCTION

This report was prepared at the request of Mr. Paul White. It describes the geology and mineral potential of the PC and DON claim blocks. A brief property examination was conducted on the PC claims by Aurum Geological Consultants, Inc. personnel on 03 October 1987. At that time the ground was frozen and partially snow covered.

The DON claims were staked subsequent to the property inspection.

Work consisted of property appraisal, basic mapping, rock sample collection and report preparation.

## LOCATION AND ACCESS

The PC and DON are two adjoining claim blocks of 50 and 38 claims respectively. They are located in the Kluane Ranges of southwestern Yukon Territory (Figure 1). The claim blocks are located at 61°20'N, 139°38'E and 61°26'N, 139°37'E on map sheet 105G/5. The claims cover the greater portion of the ridges between Arch and Maple Creeks.

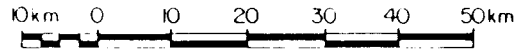
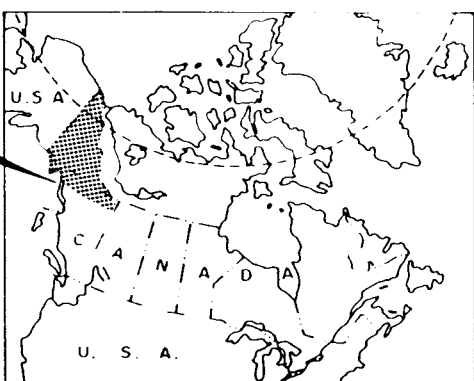
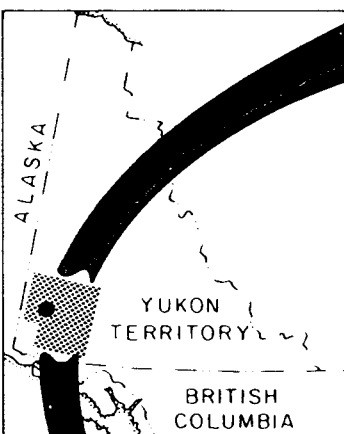
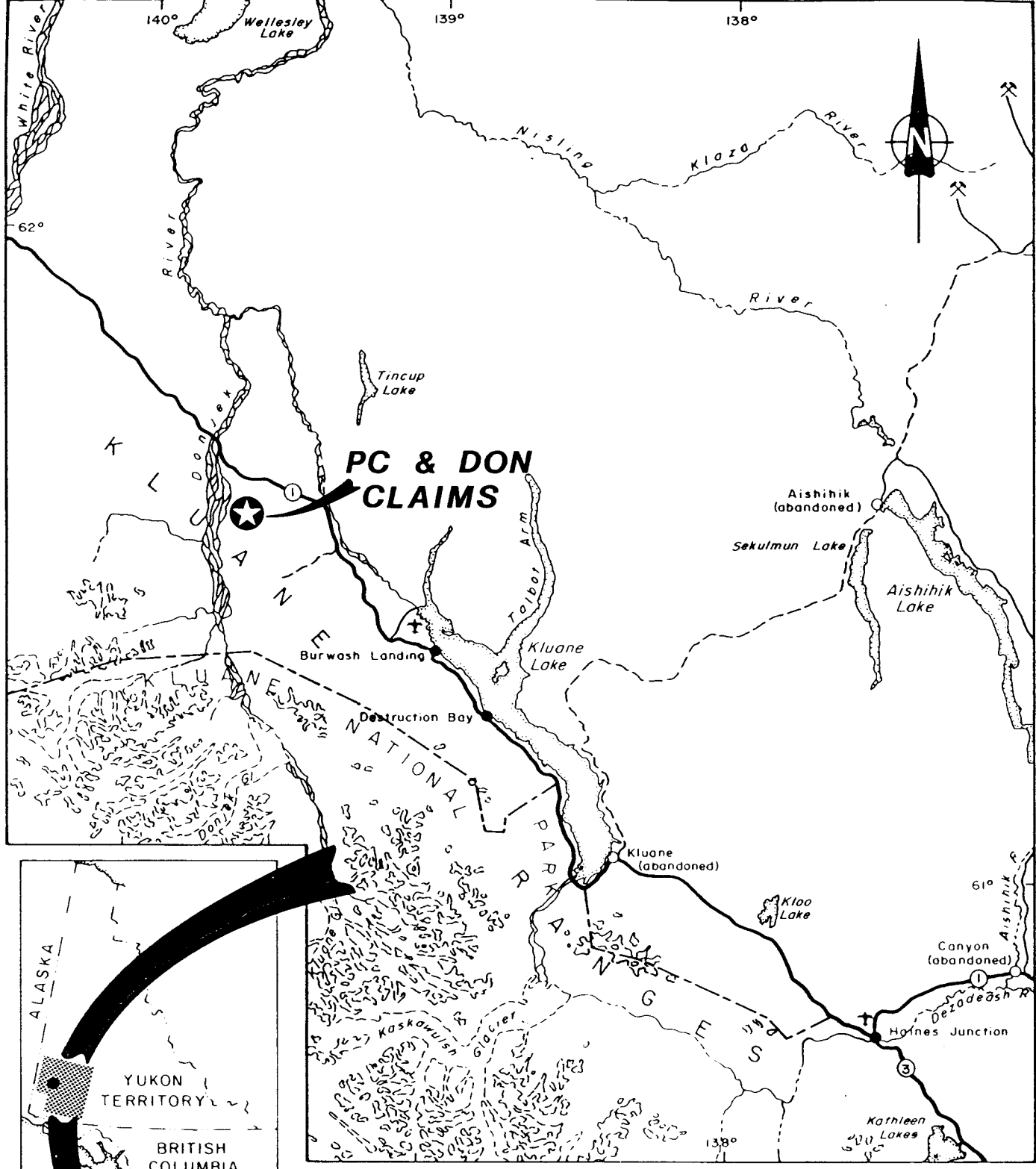
The Wellgreen road provides easy access to the headwaters of Arch Creek which is less than 3 km from the property boundary. A 4x4 dirt road accesses three placer operations on the lower reaches of Arch Creek.

A seasonal helicopter based at Burwash Landing provides access to the property in 0.3 hours flying time.

## PERSONNEL

The property evaluation was carried out on the PC claims on 03 October 1987 by R.A. Doherty, P. Garagan and J. Wegenast, of Aurum Geological Consultants, Inc.. Data compilation and report preparation was completed by C.J.R. Hart and R.A. Doherty.

Transportation to the property was by a Bell 206B Jet Ranger helicopter based at Burwash Landing.



DAWSON ELDERADO MINES LTD.	
PC 1-50 & DON 1-39 CLAIM GROUPS	
LOCATION	
Aurum Geological Consultants Inc. January, 1988	
Drawn by CJR/NH	Scale: 1:1,000,000 Figure: 1

## PROPERTY

The property consists of 88 unsurveyed claims, staked in accordance with the Yukon Quartz Mining Act. All claims are located in the Whitehorse Mining District (Figure 2).

<u>Claim Name</u>	<u>Grant No.</u>	<u>Recording Date</u>	<u>Expiry Date</u>
PC 1-50	YA97796-845	17 June 1987	17 June 1988
DON 1-10	YB08574-583	15 Oct. 1987	15 Oct. 1988
14-24	YB08584-594	15 Oct. 1987	15 Oct. 1988
27	YB08595	15 Oct. 1987	15 Oct. 1988
29-44	YB08597-612	15 Oct. 1987	15 Oct. 1988

## HISTORY

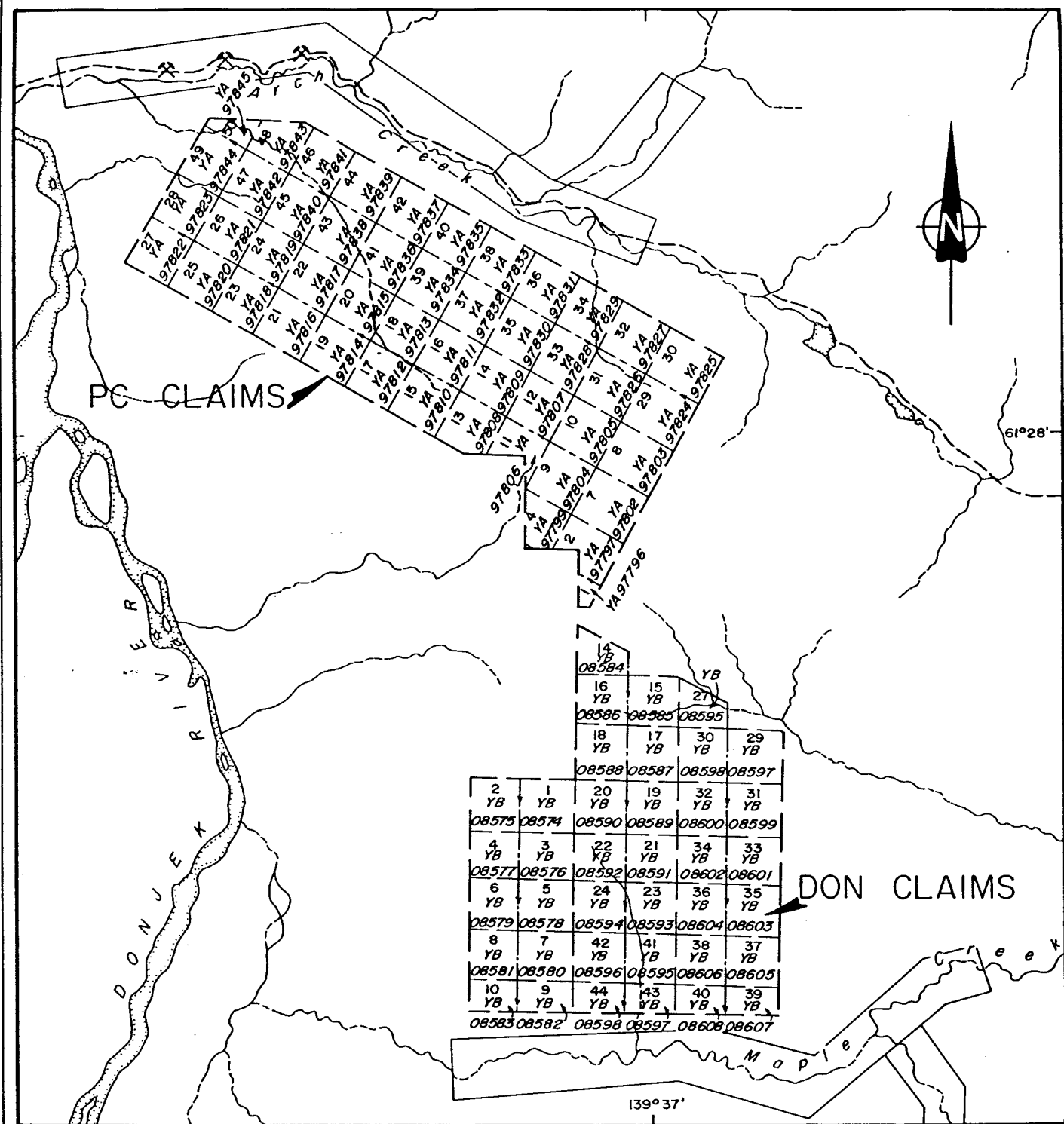
Hardrock prospecting in the area centered around the examination of native copper deposits in basic volcanics, first discovered by the Indians in the late 1800's. In the early 1950's, the focus of exploration shifted to Ni-Cu massive sulphide occurrences which were discovered at Quill Creek and near the White River.

The Wellgreen deposit, located 5 km east of the PC claims, is the only previously producing mine in the area and closed in August 1973 after roughly a year and a half of operation (Sinclair and Gilbert 1975). Open pittable reserves were then calculated at 10 million tons averaging 0.6% Ni, 0.5% Cu and 0.04 opt PGE.

Recent attention has been focused on the PGE potential of this deposit. Platinum group metals have been found in concentrations higher than had previously been determined. A recent chip sample assayed 5.5% combined Ni-Cu-Co with 0.03 opt Au and 0.198 opt PGE. Positive results such as these, combined with high prices for PGE has sparked a small rush throughout the Kluane Ranges.

Exploration in this area has concentrated on ultramafic intrusive which are recognized as the source of this style of mineralization.

Previous exploration on the ground now covered by the PC claims was limited.



PC CLAIMS

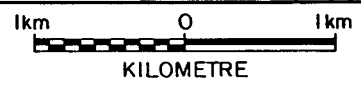
DON CLAIMS

LEGEND

- claim boundary
- claim number
- tag number
- direction of staking

- road
- creek, pond
- river
- placer claims
- gold placer operations

Note: adapted from D.I.A.N.D. map sheet I15G-5



DAWSON ELDORADO MINES LTD.			
PC 1-50 & DON 1-39 CLAIM GROUPS			
CLAIM MAP			
Aurum Geological Consultants Inc.			JANUARY, 1988
NTS I15G/5	DRAWN BY CJRH / NH	SCALE 1:50,000	FIGURE: 2

## PLACER ACTIVITY

Placer gold has been recognized and actively mined from the Kluane area since 1903 (McConnell 1906). Over 75 placer claims now cover creeks which drain the area covered by the PC and DON claim groups (Figure 2). Three placer gold operations are active on Arch Creek which drains a large portion of the PC claims. A total of 98 ounces of gold have been produced from Arch Creek during 1984 and 1985 (G.W. Gilbert, pers. comm. 1988).

## GEOLOGY

The property is underlain by folded and faulted Paleozoic and Mesozoic volcanics and sediments which have been intruded by ultramafic and granitic intrusions (Figure 3). The largest portion of the PC claims is underlain by folded Permian marine clastics and Upper Triassic Nikolai Greenstones which are faulted against Pennsylvanian Station Creek pyroclastics and flows.

On the DON claims, Cretaceous granodiorite intrudes and hornfelsed rocks of the ~~Hansen~~ Hansen Creek Formation.

All formations younger than Cretaceous are variably sheared and foliated parallel to the long northwest-trending faults which traverse the property.

## GEOCHEMISTRY

During the property evaluation, ten rock samples were acquired and analyzed for Pt, Pd, Au and Ag. The results of the geochemical analyses were generally negative. Silver values returned the most promising results as half the samples submitted yielded anomalous values greater than 0.5 ppm. The highest values returned were 4.3 ppm Ag, 25 ppb Au, 15 ppb Pt and 15 ppb Pd.

Considering the limited nature of the sampling and the extent of snow cover on the property, it is felt that the results cannot be considered representative and are therefore inconclusive.

TABLE OF FORMATIONS

## CRETACEOUS

Kgd        biotite-hornblende granodiorite

## TRIASSIC

Trub        gabbro and peridotite, sills and dykes

TrN        NIKOLAI GREENSTONE

             basalt, andesite, tuff, breccia

## PERMIAN

Ps        HANSEN CREEK FORMATION

             argillite, siltstone, greywacke

## PENNSYLVANIAN

Pv        STATION CREEK FORMATION

             pyroclastics, volcanic breccia, agglomerate,  
             tuff, limestone

## EVALUATION AND RECOMMENDATIONS

Four styles of mineralization are recognized in the belt of rocks between the Alaska Highway and the Kluane National Park boundary. In decreasing order they include: ultramafic associated Cu-Ni sulphide deposits; Cu(Ag) occurrences hosted in basic volcanics; Cu(Mo) deposits as disseminations, skarns or in shear zones; and gold in quartz veins.

The majority of these occurrences are hosted in the Nikolai Greenstone and Hansen Creek Formations. In most cases, the mineralization has a spatial and genetic relationship with Triassic intrusions of gabbro or peridotite.

All factors considered, an ideal exploration target would be underlain by either Nikolai Greenstone or Hansen Creek sediments and intruded by sills and dykes of gabbro and peridotite.

The PC and DON claim blocks are underlain by favourable geology conducive for the formation of mineral deposits characteristic of the Kluane Ranges. In addition, the proximity of the claim groups to the Wellgreen deposit and several placer gold operations, increases their appeal. cursory examination of the property failed to uncover mineralization or anomalies of significant proportions.

Further work on both claim groups should concentrate on prospecting for ultramafic intrusives, alteration zones and vein mineralogy. Alternatively, an extensive magnetometer survey could provide linear anomalies which represent, as yet uncovered ultramafic sills or dykes. Silt, with corresponding heavy mineral concentrate sampling may also prove to be a useful prospecting tool. Finally, the hornfelsed aureole around the granodiorite body on the DON claims should not be overlooked as a possible target for mineralization.

## BIBLIOGRAPHY

- All-North Resources, Ltd., 1987a. News Release; April 14, 1987.
- All-North Resources, Ltd., 1987b. News Release; May 21, 1987.
- CAMPBELL, R.B. and DODDS, C.J., 1980. Geology map of SW Kluane map-area, 115G and F(E 1/2). G.S.C. Open File 829.
- CARNES, R. C., 1988. Report on Wellgreen Project; given by R.C. Carnes. MEG Luncheon, Feb. 1988, Vancouver.
- GEORGE CROSS NEWS LETTER, 1987. High grade platinum values spark Kluane Exploration; No. 85, May 4, 1987.
- McCONNELL, R.G., 1906. Summary Report for 1904; Geol. Surv. Can., Vol. XVI, Pt. A, pp. 1-42.
- McCONNELL, R.G., 1907. Summary Report for 1905; Geol. Surv. Can., pp. 19-46.
- MULLER, J.E., 1967. Kluane Lake map-area, Yukon Territory. Geol. Surv. Can., Memoir 340.
- SINCLAIR, W.D. and GILBERT, G.W., 1975. Mineral Industry Report, 1973. Dept. of Indian and Northern Affairs, EGS 1985-7, Yukon.

STATEMENT OF COSTS

Assesment Work Valuation; PC Claims

1. Geological and Geochemical

A. Fieldwork

R. Allan Doherty, B.Sc. 1.5 days @ \$300/day	\$450.00
P. Garagan, B.Sc. 2.0 days @ \$180/day	\$360.00
J. Wegenast, B.Sc. 2.0 days @ \$170/day	\$340.00
Groceries and accomodation 6 man days	\$258.75

B. Geochemical Analyses

10 rocks, Au, Ag, Pt, Pd @ \$27 each	\$270.00
--------------------------------------	----------

C Transportation

Helicopter 1.7 hrs @ \$495.00	\$841.50
Vehicle rental	\$385.83

D. Drafting and Report Preparation

C. J. R. Hart 2 days @ \$250.00/day	\$500.00
R. Allan Doherty 0.5 days @ \$300/day	\$150.00
Drafting and reprographics	<u>\$456.79</u>

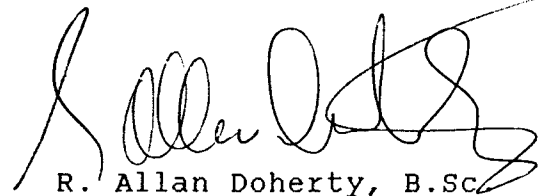
<b>Total Valuation of 1987 Assessment work</b>	<b>\$4078.87</b>
--	------------------

### STATEMENT OF QUALIFICATIONS

I, R. Allan Doherty, hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., P.O. Box 5179, Whitehorse, Yukon.
2. I am a graduate of the University of New Brunswick, with a degree in geology (Hons. B.Sc., 1977 ) and three years of graduate studies at Memorial University of Newfoundland. I have been involved in geological mapping and mineral exploration continuously since then.
3. I am a member of the Yukon Association of Professional Geoscientists and the CIMM.
4. I have no direct or indirect interest in the properties of Dawson Eldorado Mines Limited.
5. I supervised the work program and the preparation of this report on the PC claims which is based on literature research and data collected during property work on October 4, 1987.

July 8, 1988



R. Allan Doherty, B.Sc.

### STATEMENT OF QUALIFICATIONS

I, Craig J. R. Hart, hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., P.O. Box 5179, Whitehorse, Yukon.
2. I am a graduate of McMaster University, Hamilton, Ontario with a degree in geology (B.Sc., 1986 ) and have been involved in geological mapping and mineral exploration continuously since then.
3. I am a member of the Geological Association of Canada, the CIMM and the Prospectors and Developers Association of Canada.
4. I have no direct or indirect interest in the properties of Dawson Eldorado Mines Limited.
5. I am the author of this report on the PC claims which is based on literature research and data supplied by Aurum field crews who visited the property on October 4, 1987.

July 8, 1988

Craig, J. R. Hart, B.Sc.

A handwritten signature in cursive script that reads "Craig Hart". The signature is written in black ink and is positioned below the typed name.

APPENDIX 1



REPORT: 127-8955 ( COMPLETE )

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: L.A. DOHERTY

PROJECT: PG-1138

DATE PRINTED: 2-NOV-87

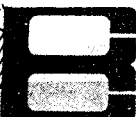
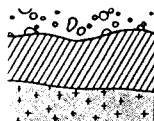
ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AG SILVER	10	0.1 PPM	HNO3-HCL HOT EXTR	ATOMIC ABSORPTION
2	AU GOLD - FIRE ASSAY	10	5 PPB	FIRE-ASSAY	FIRE ASSAY AA
3	PT PLATINUM	10	15 PPB	FIRE-ASSAY	
4	PB PALLADIUM	10	2 PPB	FIRE-ASSAY	

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	10	2 -150	10	CRUSH/PULVERIZE -150	10

REPORT COPIES TO: MR. A. DOHERTY

INVOICE TO: MR. A. DOHERTY

DAWSON ELDORADO MINES LTD

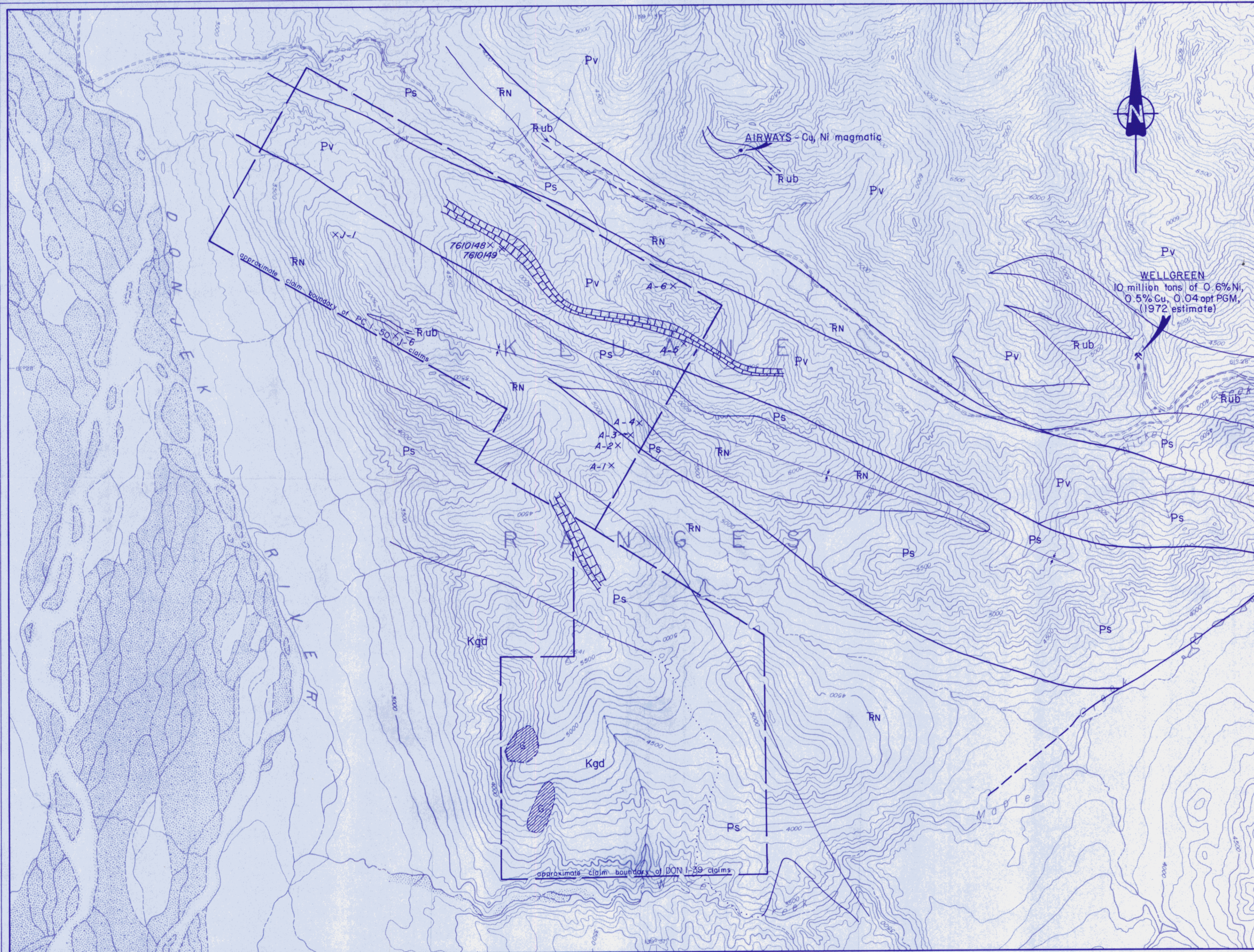


REPORT: 127-8956

PROJECT: PC-113A

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AG PPM	AU PPB	PT PPB	PD PPB
2 7610148		0.6	5	<15	2
2 7610149		0.2	<5	<15	4
R2 A1		1.2	<5	<15	6
R2 A2		1.7	5	<15	4
2 A3		0.5	<5	<15	10
R2 A4		0.4	<5	15	15
2 A5		0.7	<5	<15	2
2 A6		0.4	10	15	6
R2 J1		0.2	<5	<15	4
2 J6		4.3	25	<15	4



**LEGEND**

**LITHOLOGIES**

**CRETACEOUS**

**Kgd** biotite-hornblende granodiorite

**TRIASSIC**

**Rub** gabbro and peridotite, sills and pods

**RN** NICOLAI GREENSTONE: basalt, andesite, tuff, breccia

**PERMIAN**

**Ps** HANSEN CREEK FORMATION: argillite, siltstone, greywackes

**PENNSYLVANIAN**

**Pv** STATION CREEK FORMATION: pyroclastics, volcanic breccia, agglomerate, tuff, limestone

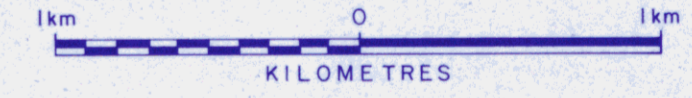
**SYMBOLS**

- geological boundary (assumed)
- faults
- syncline
- limestone
- gossan
- sample location
- mine, showing
- building
- road
- pond
- river, creek
- sand bar
- 6000- elevation contour: interval 100ft.

**GEOCHEMISTRY**

Sample number	Ag ppm	Au ppb	Pt ppb	Pd ppb
7610148	0.6	5	<15	2
7610149	0.2	<5	<15	4
A-1	1.2	5	<15	6
A-2	1.7	<5	<15	4
A-3	0.5	<5	<15	10
A-4	0.4	<5	15	15
A-5	0.7	<5	<15	2
A-6	0.4	10	15	6
J-1	0.2	<5	<15	4
J-6	4.3	25	<15	4

Note: geology modified from Muller 1966, Campbell & Dodds 1980  
G.S.C. Open File 829



DAWSON ELDORADO MINES LTD.	
PC I-50 & DON I-39 CLAIMS	
GEOLOGY & GEOCHEMISTRY	
092601	
556	
Aurum Geological Consultants Inc.	JANUARY, 1988
NTS - 115 G/5	Drawn by CJRH/NH Scale 1:25,000 FIGURE 3