

Filmac

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 94.11.25

ASSESSMENT REPORT 23158

MINING DIVISION: Skeena

PROPERTY: DUP  
LOCATION: LAT 56 35 00 LONG 130 26 00  
UTM 09 6271712 411957  
NTS 104B09W

CAMP: 050 Stewart Camp

CLAIM(S): Noot 5, Dup 9  
OPERATOR(S): Canamera Geological  
AUTHOR(S): Grunenberg, P.  
REPORT YEAR: 1993, 22 Pages  
KEYWORDS: Jurassic, Unuk River Formation, Betty Creek Formation, Argillites  
Siltstones, Conglomerates

WORK  
DONE: Prospecting  
PROS 500.0 ha

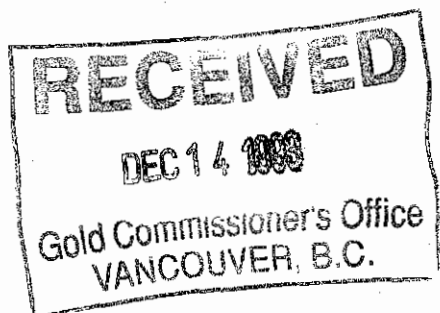
GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

DUP GROUP CLAIMS

SKEENA MINING DIVISION,

BRITISH COLUMBIA



NTS: 104 B/9 AND 10

LOG NO:	DEC 23 1993	RD.
ACTION:		
FILE NO:		

PREPARED BY: PERRY GRUNENBERG, P. GEO.

DECEMBER, 1993

Location: 56°35' North Latitude; 130°26' West Longitude

Operator: Canamera Geological Ltd.

Owner: Tagish Resources Ltd. and Alex Briden

Approval #: SMI-93-0100444-216

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**23,158**

## SUMMARY

The 40 unit Dup claim group is located adjacent to the Unuk River in northwestern British Columbia. The claims lay over regional geologic terrains that are proven to be mineralized in other areas. The Au-Ag rich Eskay Creek deposits are within five kilometres to the north of the Dup Group claims.

In September of 1993, Canamera Geological Ltd. carried out a geological and geochemical reconnaissance of the Dup Group claims. A limited amount of mapping was combined with the collection of several rock and soil samples. Results of this work is inconclusive as none of the samples returned anomalous values for base or precious metals. More detailed mapping and sampling of the gossanous bluffs and adjacent rocks paralleling the Unuk River and Storie Creek is warranted.

The reclamation of an old exploration camp on the property was completed. No other camps of this nature were noted on the property.

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## 1.0 INTRODUCTION

The DUP claim group overlays regional geologic terrains that locally host ore bodies. Several "marker" horizons have been identified in this terrain, notably the siliceous, rhyolitic Mount Dilworth horizon which demarks the Eskay Creek deposits north of the DUP claim group. In the fall of 1993, Canamera Geological Ltd. completed a geochemical and geophysical reconnaissance of the DUP Claim Group. The following report summarizes this reconnaissance.

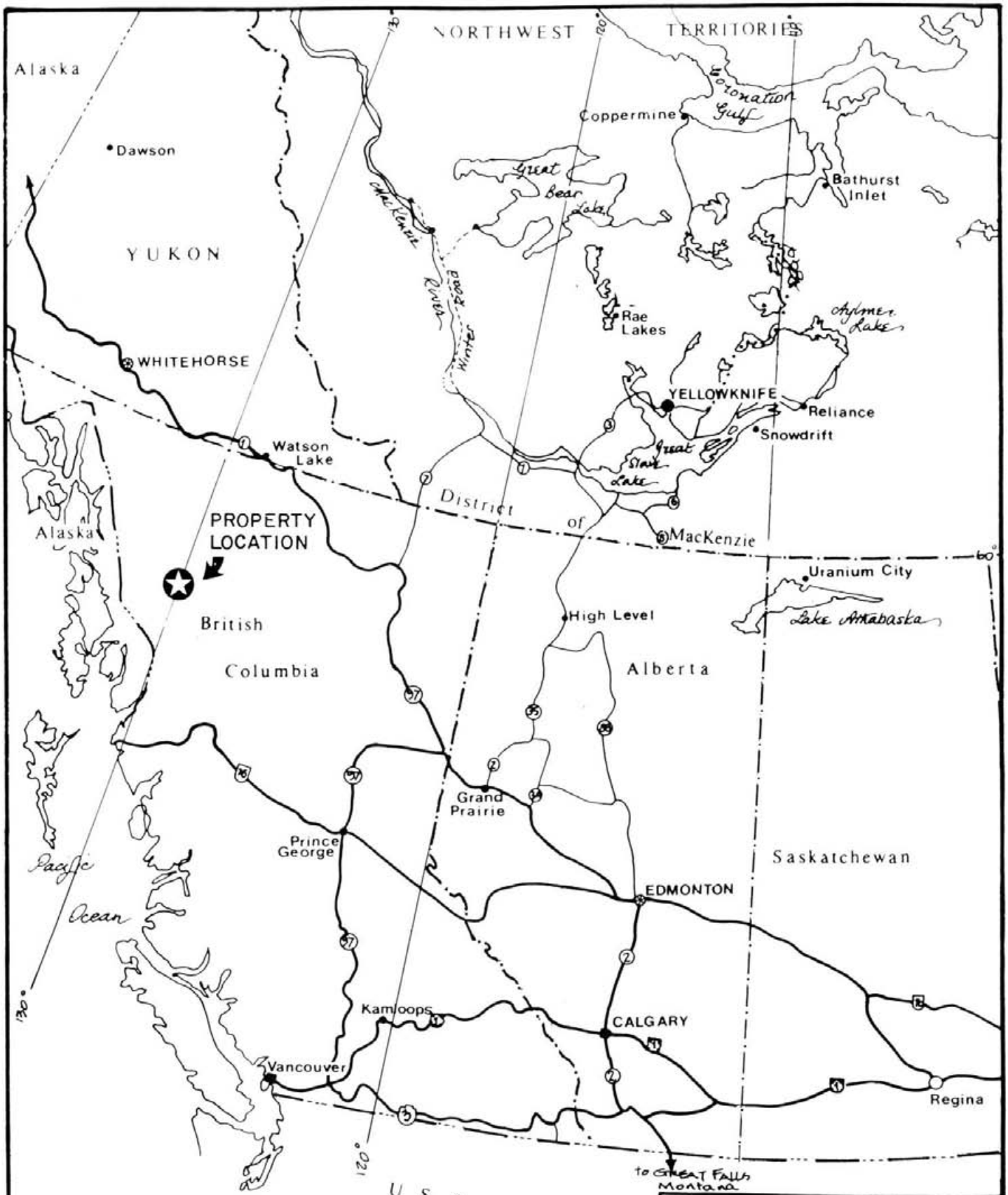
### 1.1 LOCATION AND ACCESS

The property is located in western British Columbia near the Unuk and Iskut rivers, centered at 56°35' N, and 130°26' W (NTS 104B/9, 10), approximately 950 kilometres northwest of Vancouver and 80 kilometres northwest of the town of Stewart (Fig.1).

Scheduled flights from Vancouver to Smithers and Terrace are provided by Central Mountain Air and Canadian Regional airlines. A well maintained gravel airstrip is located near the town of Bob Quinn on the Stewart-Cassiar Highway (#37). Local fixed wing charters are available providing flights to this strip.

The property is most easily accessed by helicopter from the Stewart-Cassiar Highway which runs north-south roughly 25 km. east of the property. Northern Mountain Helicopters provides service from Bell II, and Vancouver Island Helicopters provides service from Bob Quinn, both situated along the highway east of the property.

Road construction is currently in progress to provide access to the Eskay Creek mine from the Stewart-Cassiar Highway near the town of Bob Quinn. When completed, this road will run down the west side of the Iskut River to Volcanoe Creek, up Volcanoe Creek past the foot of Mount Shirley to the north end of Tom Mackay Lake, then east into Eskay Creek. This road should be completed by the spring of 1994.



CANAMERA GEOLOGICAL LTD.

## PROPERTY LOCATION MAP


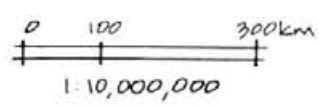
 <p style="font-size: small;">Canamera GEOLOGICAL LTD.</p>	<p>Date: NOV/93</p> <p>Scale: 1:10,000,000</p> <p>Data by: PG/sl</p>
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Figure 1



## 1.2 TOPOGRAPHY, PHYSIOGRAPHY AND CLIMATE

The property is situated on the western margin of the Coast Ranges of British Columbia. Climate is moderate, with cool wet summers and mild winters. Annual precipitation averages 250 cm., much of which falls as snow between the months of October and April. Temperature extremes range from -40 to 30 degrees centigrade, with mean average monthly temperatures ranging from 12 degrees in August, to -10 degrees centigrade in December.

The area has been glaciated and elevations on the property vary from 400 metres above sea level in the Unuk River valley, to 1800 metres above sea level on Mount Shirley. The area is deeply incised by rivers and steep sided river and stream canyons are common. Tree line is at approximately 1000 metres above sea level.

Vegetation in the area is variable. Coastal Western Hemlock forests extend along the Unuk River basin up to Storie Creek, changing to predominantly Mountain Hemlock forests that extend midway up Eskay and Ketchum Creeks. Steeper and less stable slopes host slide alder, devil's club, and wild raspberry. Remaining areas of Eskay, lower Argillite and mid Tom Mackay Creeks exhibit Englemann Spruce-Subalpine Fir zone characteristics. Upper sections of Argillite and Tom Mackay Creeks and the Mackay Lakes are alpine tundra and are essentially treeless with the exception of minor stunted growth. Vegetation consists mainly of lichen, mosses, sedges and alpine flowers.

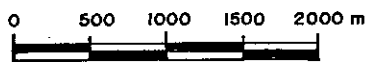
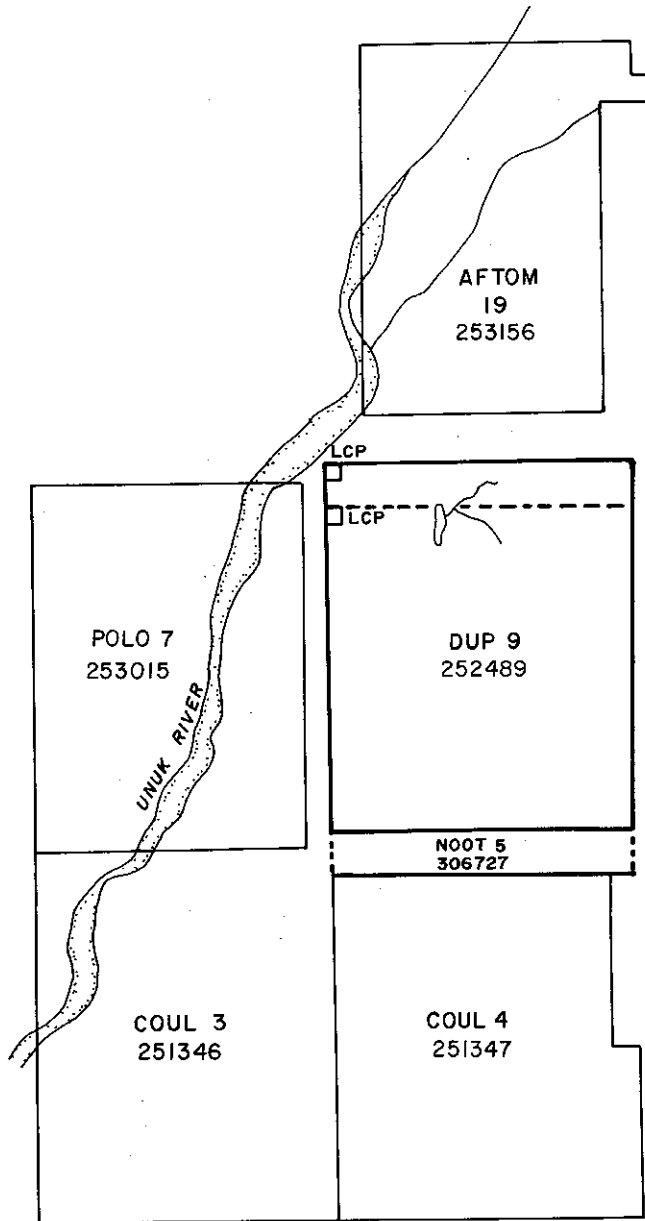
## 1.3 PROPERTY STATUS

The property is composed of three modified grid claims totaling 60 units (Figure 2), covering an area of 15 square kilometres. The claims are 100 percent owned by TAGISH RESOURCES LTD. The claim names, record number, size, and anniversary dates are listed in Table I.

TABLE I

CLAIM NAME	RECORD #	# OF UNITS	ANNIVERSARY DATE	OWNERSHIP
NOOT 5	306727	20	11-25-94	TAGISH
DUP 9	252489	20	2-24-95	ALEX BRIDEN





CANAMERA GEOLOGICAL LTD.

### DUP GROUP CLAIM MAP



Date: NOV/93

Scale: 1:50,000

Data: PG/sl

Fig: 2

## 1.4 HISTORY AND PREVIOUS EXPLORATION

The area has a long history of exploration since the discovery of mineralized gossanous bluffs along Eskay Creek, first staked in 1932 by T.S. Mackay and W.A. Prout. Exploration has concentrated on delineating high grade precious metal mineralization. Work completed by the Premier Gold Mining Company from 1935 to 1938 discovered more than 30 mineralized zones along the gossanous bluffs of Coulter and Eskay Creeks. These were numbered in sequence of discovery as zones (e.g. #20 Zone). In 1934, the 84 metre Mackay adit was driven on workings three kilometres southwest of the current 21 zone deposits.

Exploration continued through the decades, with further underground work on the Mackay adit, and development of the Emma adit closer to the 21 Zone, abundant surface trenching, and drilling of 84 diamond drill holes totaling 3,950 metres. This work involved 11 different exploration companies.

In November of 1988, Calpine Resources Inc. (now Prime Resources Ltd.) announced the discovery of high grade precious and base metal mineralization in the 21A Zone. Mineralization consisted of a combination of stockwork mineralization in rhyolite and massive sulfides at the contact of rhyolite with overlying andesite. Additional drilling resulted in the delineation of the 21A Zone and the discovery of the 21B and 21C Zones further to the north.

By the end of 1989, 205 diamond drill holes were completed on the Eskay property. Drilling has defined the 21B Zone as the principle target. This zone has recent published mining reserves of 1.08 million tons grading 65.6 g/t Au, and 2,930 g/t Ag. Substantial underground workings have been driven into this deposit, and exploration is continuing with the prospect of adding additional mining reserves.

## 1.5 WORK COMPLETED ON THE GROUP DURING 1993

In the fall of 1993, Canamera Geological Ltd. was contracted to complete geological and geochemical reconnaissance of the DUP claim group. Reclamation of a pre-existing exploration camp on the DUP 9 claim also took place at that time. This work was carried out from a five person camp located to the west of the group, from September 14 to 20, 1993.

Reconnaissance mapping at a scale of 1:50,000 took place on the DUP 9 claim in restricted areas, due to the steep nature of topography on the claim. A total of three rock samples and seven soil samples were taken during this reconnaissance.

An old exploration camp was discovered on the property near the west side of the DUP 9 claim. A combination of wood flooring and frames, canvas and tarps, and often materials had been roughly piled on the site. Clean up was completed, and the pile was disposed of by burning.

## 2.0 GEOLOGY

### 2.1 REGIONAL GEOLOGY

On a broad scale, the property sits in the middle of the Iskut-Sulphurets gold camp. This area consists of four major tectonic assemblages which are bounded by unconformities. These are the Paleozoic Stikine assemblage, the Triassic to Jurassic arc complex rocks, the Jurassic Bowser Group, and the Tertiary Coast Plutonic complex.

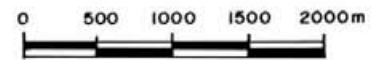
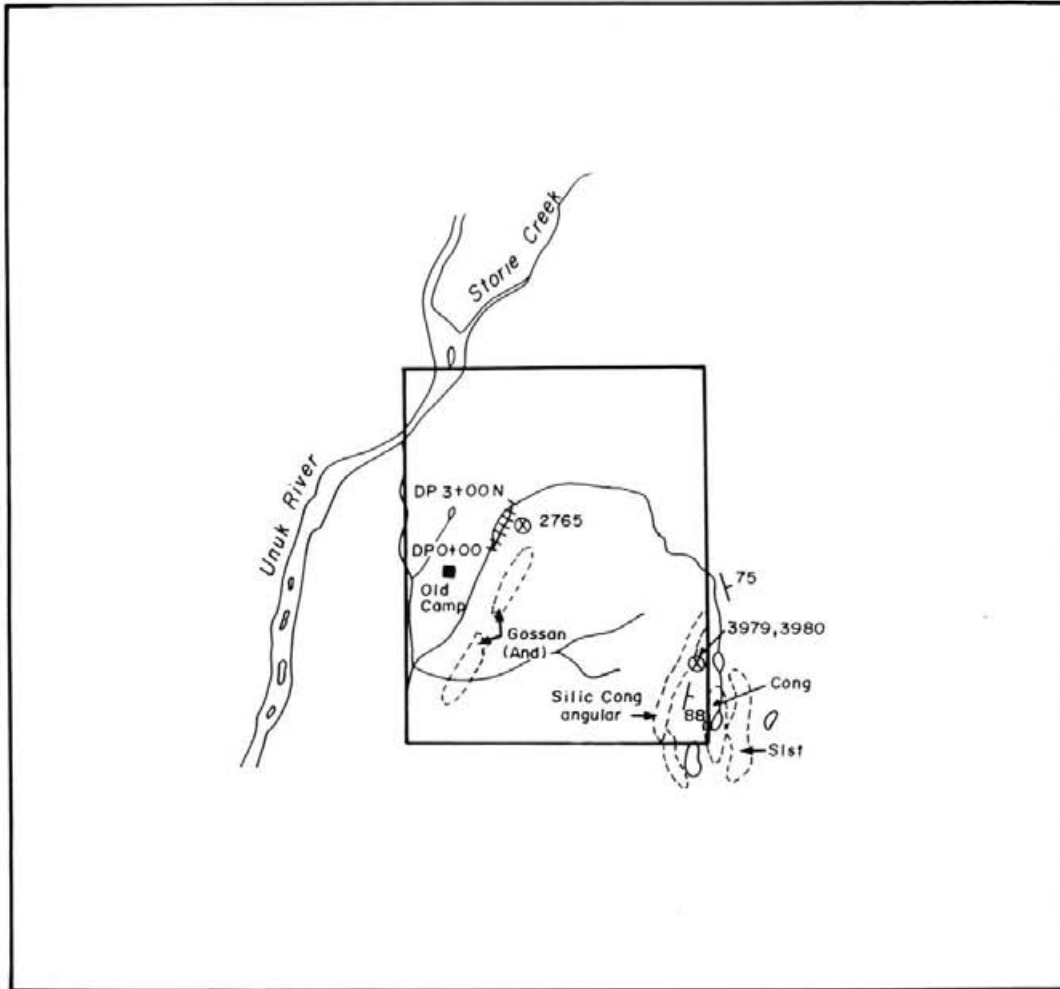
Paleozoic Stikine assemblage rocks consist of fine to coarse grained sediments with plagioclase porphyry, felsic tuff, and basaltic lavas. These rocks crop out to the northwest of the property along the Iskut River. Triassic to Jurassic arc complex rocks consist of clastic sediments with volcanoclastic interbeds. These rocks are regionally extensive. Jurassic Bowser Group rocks cover much of the area north of the Prout Plateau and are comprised of thick sequences of thinly bedded siltstone, shale and sandstone with thin lenses of conglomerate. Coast Plutonic rocks are present in the area as a series of plutons, sills, and dikes that range in age from late Triassic to Oligocene. Stocks nearest to the property are the Melville and John Peaks diorites.

In closer proximity to the property within the upper Unuk River drainage, most of the area is underlain by rocks of the lower to middle Jurassic Hazelton Group. This group has been divided into four recognizable formations, the Unuk River formation, Betty Creek formation, Mount Dilworth formation, and the Salmon River formation.

The Unuk River formation is a thick sequence of fine grained andesitic pyroclastics and flows with tuffaceous turbidite, wacke, and conglomerate interbeds. The Betty Creek formation overlies the Unuk River formation and is a heterogeneous sequence of andesitic to dacitic tuffs and flows, interbedded with volcanic derived sedimentary rocks. Thick sequences of pillow lavas found on Mount Shirley have been correlated to the Betty Creek formation. The Betty Creek formation is overlain by the Mount Dilworth formation which consists of a sequence of felsic volcanic rocks. These are typically white weathering, or rusty where pyrite bearing, consisting of rhyolitic to dacitic ash and lapilli tuffs. This sequence of felsic volcanics appears to represent the terminal stages of volcanism in the area. This unit is important as a marker horizon for ore mineralization since it is host to many base and precious metal deposits, including the Eskay Creek deposit. The Salmon River formation is uppermost in the Hazelton Group strata, and consists of mainly turbiditic siltstones and fine sandstones with rare conglomerate, tuff, or volcanic interbeds. These rocks are gradational to the overlying Bowser Lake Group sedimentary rocks.

## 2.2 PROPERTY GEOLOGY

A quick 1:50,000 scale geologic reconnaissance of the DUP 9 claim shows that the eastern portion of the property is underlain by sedimentary rocks of the Unuk River and Betty Creek formations (Figure 3). These are represented by fine argillaceous siltstones interbedded with coarse, somewhat angular conglomerates. To the west, gossanous cliffs were observed. Talus from these are angular, apparent silicified andesites which are pyrite bearing. Bedding strikes northeasterly, with steep dips to the southeast.



Cong - Conglomerate	
Slst - Siltstone	
And - Andesite	
Silic - Siliceous	
Rock sample location	Outcrop Boundary
Soil sample location	
Bedding Orientation	

CANAMERA GEOLOGICAL LTD.		
<b>DUP 9</b> <b>SAMPLE LOCATION AND</b> <b>GEOLOGY MAP</b>		
	Date: NOV./93	<b>Fig: 3</b>
	Scale: 1:50,000	
	Data: PG /sl	

### 3.0 GEOCHEMISTRY

#### 3.1 SAMPLING PROCEDURE

A total of three rock samples and seven soil samples were taken from the DUP 9 claim. Locations of these samples are shown on Figure 3. Two of the rock samples (3979 and 3980) were taken from sulphide bearing angular conglomerate (breccia) near the eastern margin of the claim. One rock sample (2765) was taken from talus down slope from gossanous, pyrite bearing andesite. Soil sampling was conducted immediately down slope from gossanous outcrops toward the western margin of the claim. Samples were taken at 50 metre spacing on a line parallel to the above cliffs. All soil samples were taken from the "B" horizon at approximately 30 cm. depth.

#### 3.2 SAMPLE RESULTS

All samples were shipped to Chemex Labs Ltd. in North Vancouver for analysis. Rock and soil samples were analyzed for gold by fire assay, followed by 32 ICP analysis. Copies of Chemex Labs Ltd. certificates of analysis are contained in the appendix.

The three rock samples contained no detectable amounts of gold or silver. Sample number 2765 contains a high percentage of iron, reflective of high pyrite content. No anomalous base metal values were returned from these samples.

The seven soil samples returned values below or at lowest detectable levels for gold and silver. Elevated levels of arsenic are noted from 1 + 50 N to 2 + 50 N, near high iron contents at 1 + 00 N. This may be indicative of arsenopyrite in bedrock at this location.

#### 4.0 RECLAMATION

The remains of a previous exploration camp were discovered on the DUP 9 claim. The apparent 3 tent camp had been built in a swamp open area within the timbered terrain on the east slope to the Unuk River. Remains of this camp containing wood floors and frames, canvasses, tarps, and other supplies had been roughly piled within one side of the opening. All of the remaining debris was collected and repiled by Canamera crew, and clean-up was completed by burning of the pile. Copies of before and after reclamation photos are shown in Figure 4.

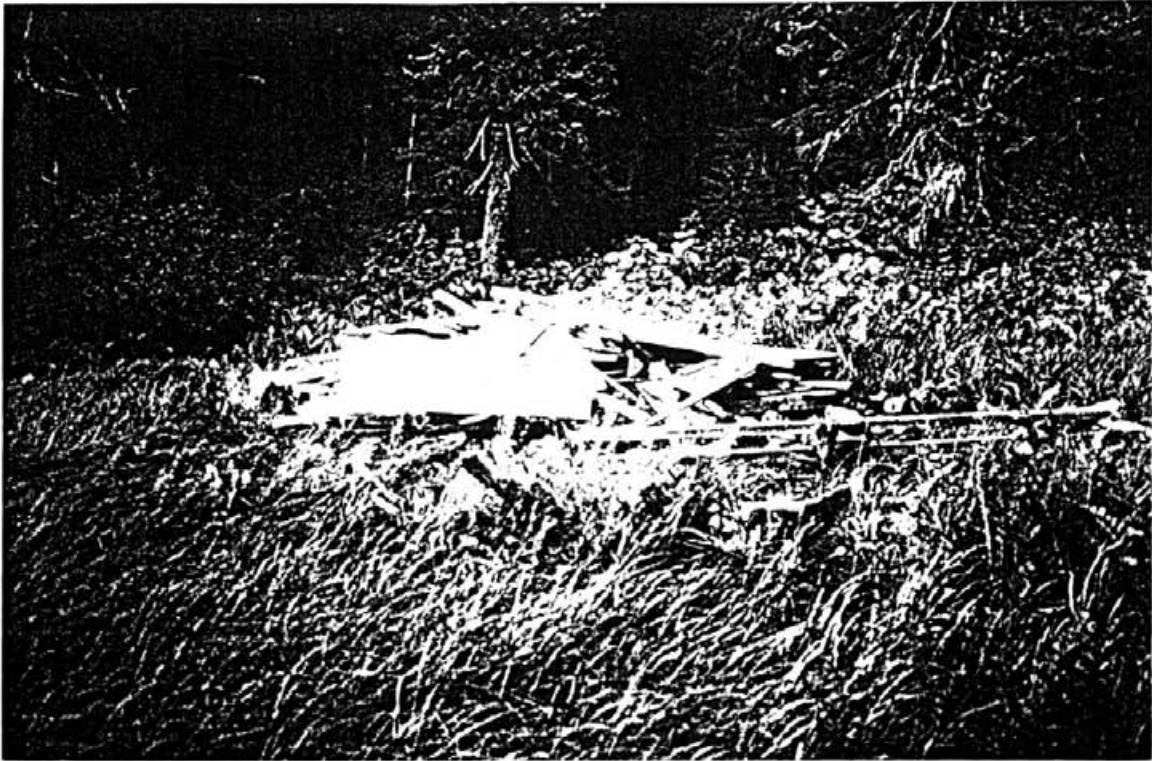


Fig. 4. Photos showing old exploration camp on the Dup 9 claim, before reclamation (above), and after (below).



## 5.0 REFERENCES

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**MACDONALD, J., LEWIS, P.D., ETTLINGER, A.D., BARTSCH, R.D., MILLER, B.D. AND LOGAN, J.M.**, BASALTIC ROCKS OF THE MIDDLE JURASSIC SALMON RIVER FORMATION, NORTHWESTERN BRITISH COLUMBIA, Mineral Deposit Research Unit, the University of British Columbia, in the Ministry of Energy, Mines and Petroleum Resources geological fieldwork 1992, paper 1993-1.

**ROTH, T.**, SURFACE GEOLOGY OF THE 21A ZONE, ESKAY CREEK, BRITISH COLUMBIA, Mineral Deposit Research Unit, the University of British Columbia, in the Ministry of Energy, Mines and Petroleum Resources geological fieldwork, 1992, paper 1993-1.

**VISSER, SYD**, MAGNETOMETER AND VLF-EM SURVEY ON THE FRED 16 CLAIM for Silver Princess Resources Inc., Skeena MD, BC, October, 1989.

## 6.0 COST STATEMENT

## SALARIES

2 Line Surveyor/Samplers X 2 Mandays X \$200/day	800.00
2 Reclamation Technicians X 2 Mandays X \$250/day	1,000.00
Perry Grunenberg, P. Geo. X 2 Mandays X \$350/day	700.00

## TRAVEL COSTS

Vehicle Rentals (apportioned) & Airline Tickets (apportioned)	2,000.00
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## CAMP COSTS

Camp Rental: 2 days X \$250/day	500.00
Food & Supplies: 2 days X \$150/day	300.00

## HELICOPTER COST

VIH Helicopter 4 hrs. X \$720/hr.	2,880.00
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## ASSAY COSTS

10 Samples X \$30/sample	<u>300.00</u>
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<b>SUB TOTAL</b>	<b>\$8,480.00</b>
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## CONTINGENCIES

At 10% (Shipping Costs, Communications, Fuels, Office Supplies, etc.)	<u>848.00</u>
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<b>GRAND TOTAL</b>	<b>\$9,328.00</b>
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## 7.0 STATEMENT OF QUALIFICATIONS


### **PERRY GRUNENBERG, B.Sc., F.G.A.C., P. Geo.**

#### ACADEMIC

1982	B. Sc. in Geology	The University of British Columbia
1987	Fellowship	Geological Association of Canada
1992	Membership	Association of Professional Engineers and Geoscientist of British Columbia

#### PROFESSIONAL

1989 TO PRESENT	<b>P AND L GEOLOGICAL SERVICES, SMITHERS, BC</b>  <i>Contract geologist working on mining and mining exploration throughout BC and the Northwest Territories</i>	
1984 to 1989	<b>HUGHES-LANG EXPLORATIONS, VANCOUVER, BC</b>  <i>Project geologist employed to work on geological, geophysical, and geochemical surveys with follow-up drilling and trenching, in areas throughout BC and the Yukon.</i>	
1983	<b>STRATO GEOLOGICAL ENGINEERING LTD. VANCOUVER, BC</b>  <i>Project geologist contracted to work in all aspects of mining exploration on properties in Nevada and Washington, USA, and in British Columbia.</i>	
1982	<b>P AND L EXPLORATION, VANCOUVER, BC</b>  <i>Contract geologist involved in evaluating placer gold prospects near Quesnel and Princeton, BC</i>	
1978 to 1981	<b>RIO ALGOM, KENNECOTT CANADA, AND MARK MANAGEMENT LTD.</b>  <i>Summer student involved in exploration projects in British Columbia.</i>	



APPENDIX I

CHEMEX LABS LTD. ASSAY CERTIFICATES



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: CANAMERA GEOLOGICAL LTD.

220 CAMBIE ST., SUITE 290  
VANCOUVER, BC  
V6B 2M9

Project: ESKAY  
Comments: ATTN: J. DUPUIS

Report Number : 1-A  
Total Pages : 1  
Certificate Date: 06-OCT-93  
Invoice No. : 19322117  
P.O. Number :  
Account : KBO

## CERTIFICATE OF ANALYSIS A9322117

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
93DP 0+00N	201 229	< 5	< 0.2	1.47	20	100	< 0.5	< 2	0.63	1.0	45	83	37	5.17	< 10	< 1	0.05	< 10	0.87	2520
93DP 0+50N	203 205	< 5	< 0.2	2.89	36	630	< 0.5	< 2	0.66	2.0	67	194	53	8.78	10	< 1	0.05	< 10	1.40	5230
93DP 1+00N	201 229	< 5	< 0.2	2.69	86	350	< 0.5	< 2	1.09	2.0	53	124	72	11.10	< 10	< 1	0.05	< 10	1.01	5300
93DP 1+50N	201 229	< 5	< 0.2	2.01	138	240	< 0.5	< 2	0.50	1.0	19	23	26	5.86	10	< 1	0.09	20	0.56	4360
93DP 2+00N	201 229	< 5	< 0.2	1.20	196	80	< 0.5	< 2	0.16	0.5	9	14	20	6.20	10	< 1	0.07	10	0.25	1580
93DP 2+50N	201 229	< 5	< 0.2	2.42	146	340	< 0.5	< 2	0.52	1.0	32	62	57	6.94	10	< 1	0.09	10	0.94	3030
93DP 3+00N	201 229	< 5	0.2	0.26	4	30	< 0.5	< 2	0.21	< 0.5	2	4	4	0.38	< 10	< 1	0.04	< 10	0.04	80

CERTIFICATION: *Mark Buchler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: CANAMERA GEOLOGICAL LTD.

220 CAMBIE ST., SUITE 290  
VANCOUVER, BC  
V6B 2M9

Project : ESKAY  
Comments: ATTN: J. DUPUIS

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 06-OCT-93  
Invoice No. : 19322117  
P.O. Number :  
Account : KBO

## CERTIFICATE OF ANALYSIS A9322117

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
93DP 0+00N	201 229	2	0.09	26	930	18	6	10	33	0.30	< 10	< 10	110	< 10	60
93DP 0+50N	203 205	8	0.06	50	1110	20	4	15	25	0.23	< 10	< 10	149	< 10	72
93DP 1+00N	201 229	17	0.04	47	1640	24	6	16	23	0.22	< 10	< 10	99	< 10	112
93DP 1+50N	201 229	6	0.02	13	1620	44	16	12	19	0.05	< 10	< 10	37	< 10	190
93DP 2+00N	201 229	7	0.01	4	1530	44	20	6	8	0.02	< 10	< 10	30	< 10	156
93DP 2+50N	201 229	7	0.02	35	1010	40	6	13	30	0.06	< 10	< 10	78	< 10	142
93DP 3+00N	201 229	< 1	0.01	< 1	590	< 2	2	1	13	0.09	< 10	< 10	11	< 10	28

CERTIFICATION: *[Signature]*