GEOLOGICAL, GEOCHEMICAL & GEOPHYSICAL REPORT

- on the -

SONGBIRD MINERAL CLAIMS
NANAIMO MINING DIVISION

- Prepared for -

EUREKA RESOURCES INC.
837 EAST CORDOVA STREET
VANCOUVER, B.C.

Work Completed: June 29 - December 30, 1983.

Location: 49° 13'N; 124° 13'W

GEOLOGICAL BRANSCHF/1
ASSESSMENT REPORTSSE of Parksville, B.C.

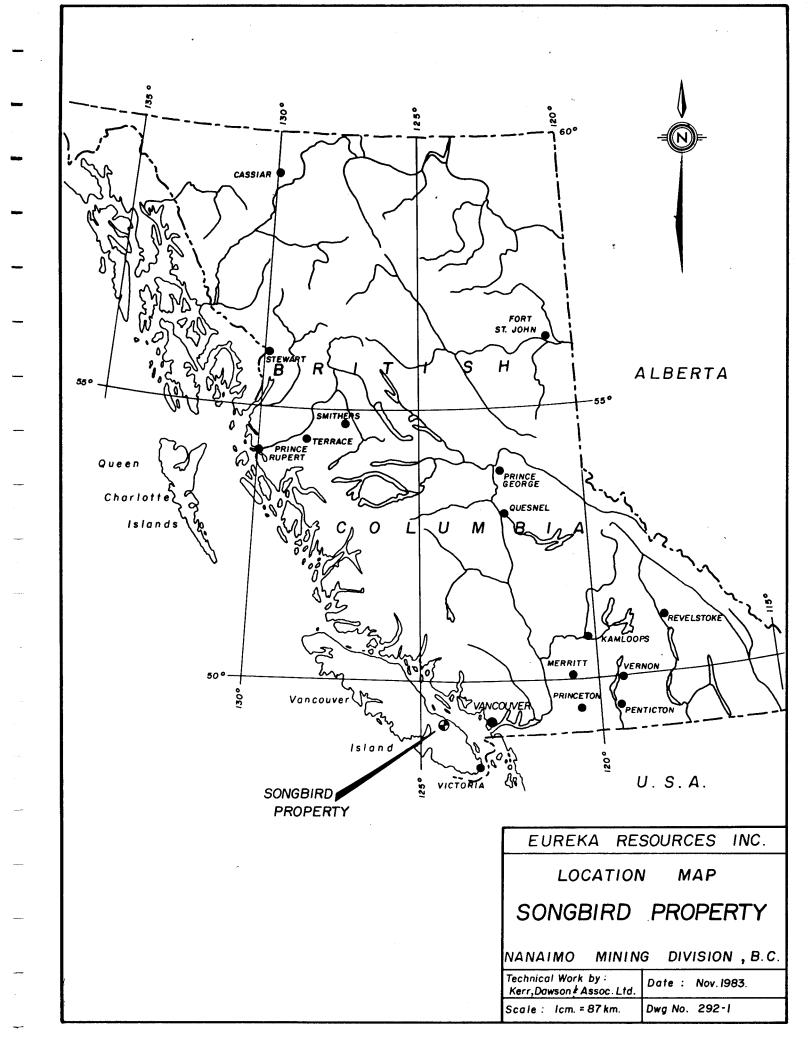
Presare By

KERR, DAWSON & ASSOCIATES LTD. #206 - 310 NICOLA STREET, KAMLOOPS, B.C. V2C 2P5

> John R. Kerr, P. Eng. December 30, 1983.

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INTRODUCTION

General Statement:

Eureka Resources Inc. acquired the Songbird Property by option agreement in the spring, 1983. The property consists of a previously developed gold occurrence in the favourable Paleozoic Sicker Group of volcanic and sedimentary rocks. The property was developed in two periods; 1964/65 by Gunnex Mines Ltd. and 1979/80 by Invex Resources Ltd. During the summer, 1983, Eureka completed geological mapping, rock chip and soil sampling and a VLF-EM Survey. This report summarizes the results of this programme.

Location and Access:

The property is located on the east side of Vancouver Island, approximately 15 km. south-southeast of Parksville, B.C. Geographic coordinates of the center of the claims is 49° 13'N and 124° 13'W. (NTS 92F/1).

Access is possible from Highway #19 at Nanoose Bay a distance of 2 km. west and thence south a distance of 10 km. along an old logging road, the latter six kilometers being in poorly-maintained condition.

Topography & Vegetation:

The Songbird claims occur on the northeast slopes of Okay Mountain between the South Englishman River and Bonell Creek. The claim area covers the headwaters of Nanoose Creek, which empties into Georgia Strait at Nanoose Bay.

Relief is gentle to moderate with a general uniform northeasterly slope. Elevation range from 180 m. a.s.l. in the northeast portion of the claims to 680 m. a.s.l. on Okay Mountain.

Most of the property was logged years ago. Vegetation presently consists of secondary growth of spruce, balsam, fir and cedar with thick underbrush.

CLAIMS

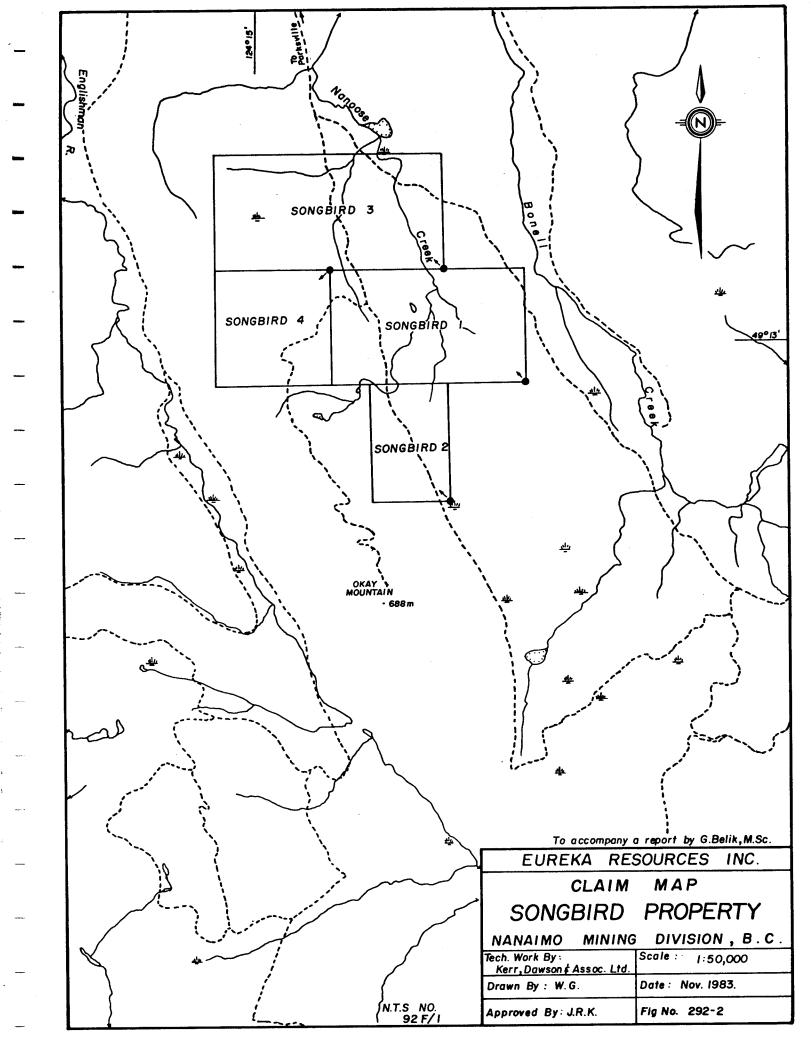
The property described in this report is comprised of 4 contiguous mineral claims totalling 48 units, as detailed below:

Mining Division	Claim Name	<u>Units</u>	Record Number	Record Date
Nanaimo	Songbird l	15	1323 318	Feb. 16/83
Nanaimo	Songbird 2	6	1324 1319	Feb. 16/83
Nanaimo	Songbird 3	18	1525	July 5/83
Nanaimo	Songbird 4	9	1526	July 5/83

Costs of the field programme as discussed will be applied to maintain the property until 1987.

The Songbird 1 and Songbird 2 claims are owned jointly by Mr. Doug Brownlee and Mr. Malcolm Bell, both of Vancouver, B.C. The Songbird 3 and Songbird 4 claims are owned by Eureka Resources Inc., 837 East Cordova Street, Vancouver, B.C.

An option to purchase a 90% interest in the Songbird 1 and 2 claims reportedly has been negotiated by Eureka Resources Inc.



EXPLORATION HISTORY

The area of the known showings was first staked by Gunnex Ltd. in 1963. After carrying out a minor prospecting, mapping and soil sampling programme in 1963 and 1964, Gunnex allowed the claims to lapse.

The area was restaked in 1978 by Invex Resources Ltd. (Okay Claim). During the latter part of 1978 Invex carried out a programme of geological mapping, soil and silt sampling. This was followed in 1979 by geological mapping, hand trenching and the drilling of 14 plugger holes. According to a report by J.P. Elwell, P. Eng., dated August 31, 1979, the hand trench exposed a series of pyritic quartz lenses and veins dipping to the west. Chip samples taken across the vein zone reportedly indicated an average of 0.194 oz/ton gold and 1.39 oz/ton silver over a true width of 30 feet.

In 1980, Invex drilled two short holes from a setup located about 20 meters east of the trench. The results of this drilling are not available and it is not known whether the vein zone was penetrated.

No further work was reported by Invex and the Okay claim, which was allowed to lapse, was restaked in Feb. 1983, as the Songbird 2 claim. The Songbird 1 claim was also staked to cover the possible extension of the zone to the north.

Mr. Doug Brownlee, geologist, brought the Songbird claims to the attention of Mr. John Kerr. Mr. Kerr, acting as agent for Eureka Resources Inc., optioned the claims, expanded the claim area to the north and west and supervised a preliminary exploration programme in June and July, 1983. This work included geological mapping, soil sampling, a VLF-electromagnetic survey and trenching.

FIELD PROGRAMME - 1983

During the period June 27 - July 14, 1983, a three kilometer baseline, with 29 km. of grid lines were established covering the Songbird 1 and 2 mining claims. Lines were spaced at 50 and 100 meter intervals, with sample stations at 25 meter intervals in the area of the main showing, and at 300 meter intervals, with sample stations at 50 meter intervals in the northern portion of the surveyed area. Grid lines were established by compass and chain methods.

Soil samples were collected from all lines at the 25 or 50 meter sample stations. Samples were collected from the "B" horizon of soils, where possible. Due to the hummocky terraine, and swampy conditions in low-lying areas, samples could not be collected from all stations. Samples were placed in appropriately identified Kraft envelopes, and submitted to Acme Analytical Laboratories in Vancouver for gold and silver analysis.

All samples were dried and sieved to -80 mesh. The method of analysis for each metal is described on the geochemical certificates (Appendix B).

A VLF-EM survey was completed on most lines, readings taken at 25 or 50 meter stations, with a Sabre Electronic VLF-EM unit. Due to extreme wet conditions during the survey, the EM unit experienced shorting conditions towards the end of the survey, therefore Lines 24, 27 & 30N were not completed. As the baseline is oriented in a N-S direction, the Seattle, Wash. transmitting station was used for the survey.

The raw data was subjected to the Fraser filter method of displaying results. This method takes into account an averaging of four stations and provides a better representation of the data for the following reasons:

- 1). Tends to smooth out any erratic readings.
- 2). Provides positive numbers to display normal raw data cross-overs, which can subsequently be displayed by normal contour methods.
- 3). Eliminates some of the spurious effects of topography on interpretation of E.M. data.

The positive filtered values are displayed on accompanying map sheet, Fig. 282-6. Negative values were not calculated and are insignificant to the interpretation. They are displayed as (-). The positive values are contoured in 10° intervals, from which definite and possible/probable anomalies are interpreted.

The property was geologically mapped, with rock outcrops that are exposed along grid lines being identified. All rock outcrops are identified on Figure 282-3, indicating a preliminary geological interpretation. In addition several selected outcrops were chip sampled, the samples being submitted for gold and silver geochemical analysis.

A back-hoe was hired to clean out old trenches, and establish two new trenches in the area of the known showing. These trenches were all resampled and assayed for gold and silver, the results compiled on Figure 282-7.

GEOLOGY

The general geology of the area is summarized on GSC Map #49-1963, Geology of the Alberni Area, 92F/SE (1"=2 miles), by J.E. Muller.

In summary, the Songbird Property straddles the contact between the Paleozoic Sicker Group and the Upper Triassic Karmutsen Formation along the southeast margin of the Nanoose Uplift.

The Sicker Group is a complex package of volcanic and sedimentary strata which underlies extensive areas of south and central Vancouver Island. The group is host to several massive sulphide deposits including Westmin's Buttle Lake deposits and the Tyee/Lenora deposit near Duncan. These deposits are intimately associated with felsic volcanic rocks and show a close spatial relationship to centers of venting within the volcanic pile.

Muller (1980), has subdivided the Sicker Group into three formations which include, in order of increasing age:

<u>Buttle Lake Formation:</u> mainly limestone; locally interbedded with calcareous siltstone and chert.

Myra Formation: basic to felsic tuffs, breccias and flows; thinly bedded to massive argillite, siltstone and chert.

<u>Nitinat Formation:</u> basaltic lavas which are locally pillowed or agglomeratic; minor mafic tuff.

Within the area of the Songbird Property lithologies of the Sicker Group are characteristic of the Myra Formation. Lithologies evident include: chert, tuffaceous chert, argillite, cherty argillite, fine grained felsic tuffs and greenschist. All units are penetratively foliated, strike north to north-northwest and dip 40° to 85° to the west. Most units are pyritic.

The Karmutsen Formation, which underlies most of the Songbird 4 claim and the western margins of the Songbird 1-3 claims, consists of basaltic flows and breccia with minor tuff and sedimentary interbeds. Regionally the formation is extensive and underlies about 30% of Vancouver Island, mainly along its eastern margin. Remnants of an undeformed, coarsely bedded, poorly sorted, polymictic conglomerate are locally preserved in the east half of the Songbird 1 claim. Within the region of the claim area, this unit is diagnositic of the basal member of the Cretaceous Nanaimo Group.

Within the center of the Songbird 2 claim, in close proximity to the inferred Sicker/Karmutsen contact, significant gold and silver mineralization occur within a strong fault breccia zone. The zone is about 10 meters wide, strikes north-northwest and dips 60° to 85° to the west-southwest. The zone is poorly exposed by a few small outcrops and shallow trenches over a strike length of about 80 meters beyond which it is totally concealed by overburden.

Quartz, in varying amounts, occurs throughout most of the zone as narrow, translucent-to milky-white veins, pods and breccia fragments. Most of the quartz contains pyrite and locally, minor chalcopyrite and galena. The host unit, which is highly sheared and brecciated, consists of a thinly bedded, black, chert/argillite sequence. Bedding locally is partly preserved. In 1979, Invex dug a shallow hand trench across the northern part of the zone. Samples taken by Invex from the zone returned an uncut, weighted average of 0.194 oz/ton gold and 1.39 oz/ton silver over a true width of 30 feet. Results of the sampling suggested that the gold/silver mineralization was largely confined to quartz vein material.

In 1983, Eureka reopened the Invex trench with a backhoe and resampled the mineralized section. Two additional trenches were made; one 20 meters to the north and one 30 meters to the south. These trench locations and the sample results obtained by Eureka are shown on Fig. No. 292-7. The center trench on Fig. No. 292-7 is the reopened Invex trench.

L-8+00 N

L-7+50 N

L-7+001

Eureka's sampling, in general, verified Invex's results although the average for the main zone was somewhat lower (0.130 oz/ton gold, 0.93 oz/ton silver over 8.0 meters). The center trench, which was extended a bit further to the west than Invex trench, partly exposed a second, subsiduary mineralized zone which assayed 0.167 oz/ton gold and 1.10 oz/ton silver.

Significant gold and silver values were also obtained from both of the other trenches and from a small outcrop situated 30 meters south of the trench.

GEOCHEMISTRY

Statistical analyses of soil geochemical data yielded the following results:

		<u>Ag</u>	<u>Au</u>
No. of samples	N-	655	655
Mean	M-	.247 ppm	6.07 ppb
Std. Deviation	S-	.399 ppm	6.54 ppb

From this, the following anomalous categories are derived:

,	Ag		<u>Au</u>
Negative	< .25	ppm	< 6 ppb
Possibly Anomalous	.2565	ppm	6-10 ppb
Probably Anomalous	0.7-1.1	ppm	15-20 ppb
Definitely Anomalous	> 1.1	ppm	> 20 ppb

The various anomalous values are indicated on the accompanying geochemical plans (Figures 292-4 Au, and 292-5 Ag). Anomalous zones have been contoured according to the various categories.

There is a strong correlation of both gold and silver content in soil from L6 + 00N to L9 + 00N. Silver content in soil extends the definite anomalous trend to L11 + 00N, with erratic, however significant anomalies to L27 + 00N along this trend. Weak gold anomalies are associated with the silver to L11 + 00N.

Three other significant geochemical targets exist on the property.

- L7 + 50N @ 6 + 25W. A high silver value (5ppm) and weak gold value, is associated with a strong E.M. conductor and mapped fault or shear zone.
- L11, 12 & 13 + 00N @ 9 + 50W. Strong gold values in soil correlate well with the northern extension of the E.M. conductor noted above.
- L4, 5 & 6 + OON @ 1 + OOW. Strong gold and moderate silver values in soil have no correlation with interpreted geological or E.M. features.

There is an unusual silver geochemical feature expressed on Lines 6 + 00N and 11 + 00N, with high background values indicated along a high percentage of each line. Interpretation of this data suggests a crosscutting feature along the lines, however a more realistic evaluation of this data would be a laboratory problem (contamination?) for these series of samples.

VLF - EM SURVEY

The positive Fraser filtered data are plotted on a surface plan of the grid (Figure 292-6). The 10° , 20° and 30° contours were drawn, indicating anomalous zones. Values $>30^{\circ}$ are considered definitely anomalous.

A significant conductor is interpreted to coincide with the main surface showing, and the definitely anomalous zone extends over the full length of the surveyed area from L3 + 00N to L21 +00N. This conductor coincides well with the mapped and interpreted fault zone which transects the full length of the claims.

A second conductor is subparallel to the main conductor and is located 250-300 meters to the west. The conductor is well defined from L6 + 00N to L10 + 00N, however is erratically indicated on Lines 1+50N, 3+00N, 15+00N and 18+00N. The defined portion of the conductor coincides with a mapped fault zone and high silver value in soil.

ECONOMIC POTENTIAL & RECOMMENDATIONS

The existence of gold-silver values ranging 0.10 to 0.20 oz/ton Au and 1.0 - 2.0 oz/ton Ag over widths of 8 - 15 meters is certainly of economic significance. This zone has been exposed and sampled on surface over a strike length of 100 meters (see Figure 292-7, trench and assay plan). This zone is indicated by geochemistry and geophysics to exist over the full length of the surveyed area (> 2.0 km.)

A second zone indicated by a mapped fault zone, geochemistry, and geophysics may exist 250 - 300 meters west of the main zone, however to date has not been exposed or sampled on surface. Both zones are worthy of further exploration and development, therefore the following programme is recommended:

- 1). Allow for approximately 500 meters of diamond drilling in the main showing area.
- 2). Back-hoe trenching along the extended strike of the main zone, and on the second zone indicated to the west.
- Continued geochemistry and VLF EM surveys completed to the north of the surveyed area.

Respectfully Submitted By:

KERR, DAWSON & ASSOCIATES LTD.

John R. Kerr, P. Eng.

GEOLOGIST.

December 30, 1983.

Kamloops, B.C.

APPENDIX A

COST STATEMENT

COST STATEMENT

Field Programme June 29 - July 13, 1983.

LABOUR:				
	John R. Kerr, P. Eng. 2 3/4 days @ \$250.00/day	\$687.50		
	W. Gruenwald, Geologist 10 days @ \$220.00/day	2,200.00		
	M. Dawson, Sr. Field Tech. 16 days @ \$160.00/day	2,560.00		
	K. Davies, Assistant 13 days @ \$130.00/day	1,690.00		
	B. Game, Assistant 16 days @ \$120.00/day	1,920.00	\$9,057.50	
Truck Ren	tal		1,106.95	
Assays &	Geochemical Costs		4,419.00	
Room & Bo	ard		1,570.10	
Car Renta	l, Misc. Transport		313.50	
Equipment	Rental		400.00	
Back-Hoe	Rental		180.00	
Purchase	Supplies & Map Control		291.10	\$17,338.15
	Report Preparation & O	Compilation of	Data	
	November/Decem	ber, 1983.		
	derr, P. Eng. es @ \$250.00/day	625.00		
	vald, Geologist vs @ \$240.00/day	1,140.00		
Secretari	al	180.00		
Printing	& Photocopying	134.20		2,079.20

\$19,417.35

TOTAL:

APPENDIX B

ASSAYS & GEOCHEMICAL DATA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. — PH: 253-3158 TELEX: 04-53124 DATE RECEIVED JULY 14 1983

DATE REPORTS MAILED July 20/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 6M SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2D AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG. SAMPLE TYPE : SOIL - DRIED AT 60 DEG C., -BO MESH.

AU* - 10 GM, IGNITED, HOT AQUA REGIA LEACH MIBK EXTRACTION, AA ANALYSIS.

ASSAYER ___ NEW DEAN TOYE, CERTIFIED B.C. ASSAYER

- KERR DAWSON & ASSOCIATES PROJECT # GROUP SONG FILE # 83-1192PAGE# 1

_	SAMPLE	AG PPM	AU*
-	30N 15W 30N 14+50W 30N 14W 30N 13+50W 30N 13W	. 1 . 1 . 1 . 2 . 2	5 10 5 5
-	30N 12+50W 30N 12W 30N 11+50W 30N 11W 30N 10+50W	. 1 . 1 . 1 . 1	10 5 5 5
	30N 10W 30N 9+50W 30N 9W 30N 8+50W 30N 8W	. 1 . 2 . 1 . 1	5 5 5 5
	30N 7+50W 30N 7W 30N 6+50W 30N 6W 30N 5+50W	. 1 . 1 . 2 . 1 . 1	5 10 5 5
	30N 5W 30N 4+50W 30N 4W 30N 3+50W 30N 3W	. 1 . 1 . 1 . 1	5 5 5 5
	30N 2W 30N 1+50W 30N 1W 30N 0+50W 30N 0+25W	. 1 . 1 . 1 . 1	5 5 10 5
	27N 17W 27N 16+50W 27N 16W 27N 15+50W 27N 15W	. 1 . 1 . 1 . 1	5555
	27N 14+50W 27N 14W	. 1 . 1	5 5

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_				27N : 27N : 27N :	3W				.1	5 5 5				

27N 2W 27N 1+50W

27N 1W

27N OW

27N 0+50W

24N 16W+50

24N 15W+50

24N 14+50W

24N 14+50W

24N 14W

24N 13+50W

24N 12+50W

24N 12W

24N 11+50W

24N 13W

24N 16+56W

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			SAMPLE				AG PPM	AU*			
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			24N 8W 24N 7+ 24N 7W 24N 6+ 24N 6W	50W 50W			. 1 . 1 . 1 . 1	5555			
			24N 5+ 24N 5W 24N 4W 24N 3+ 24N 3W	50W			. 1 . 1 . 1	5555			
			24N 2+ 24N 2W 24N 1+ 24N 1W 24N 0+	50W			. 1 . 1 . 2 . 3	10 5 5 5 10			
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	SAMF	LE	AG PPM	AU* PPB
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	21N	6+50W 6W 5+50W	. 1 . 1 . 1 . 1	5555
	21N	3+50W 3W	.2 .4 .3 .7	55555
	21N	2W 1+50W 1W 0+50W 0A	. 9 . 6 . 4 . 4	5 5 5 5
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			18N 7 18N 6 18N 5 18N 5 18N 4	+50W +50W W			. 1 . 1 . 1 . 1 . 1	5 5 5 5		

18N 4W 18N 3+50W

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KERR DAWSON & ASSOCIAT	ES PROJECT # GROUP	SONG	FILE # 83-1192PAGE# 6
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18N	5+50E 6E 6+50E	.5 .5 .4 .2	다 더 더 더 더 더
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15N 4+50W

KERR DAWSON & ASSOCIATES PROJECT #	GROUP SONG	FILE # 83-1192PAGE# 7
SAMPLE	AG PPM	
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14N 9+50W 14N 9W 14N 8+50W 14N 8W 14N 7+50W	. 2 . 1 . 1 . 1 . 1	5 6 5 5
14N 7W 14N 6W 14N 5+50W 14N 5W 14N 4+50W	. 1 . 1 . 4 . 1 . 4	5 5 5 5
14N 4W 14N 3+50W 14N 3W 14N 2+50W 14N 2W	- 1 - 1 - 1 - 1	5 5 5 5
14N 1+50W 14N 1W 14N O+50W 14N OW 13N 10W	. 1 . 1 . 2 . 1	5 5 5 5
13N 9+50W 13N 9W 13N 8+50W 13N 8W 13N 7+50W	. 1 . 1 . 1 . 1	60 5 5 5 5
13N 7W 13N 6+50W	. 1	5 5

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13N 3+50W 13N 3W - 13N 2+50W 13N 2W 13N 1+50W	. 1 . 1 . 7 . 2	5555
13N 1W 13N 0+50W 13N 0W 12N 10W 12N 9+50W	.3 .2 .2 .1 .1	5 5 5 5 45
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12N 6W 12N 5+50W 12N 5W 12N 4+50W 12N 4W	. 1 . 1 . 2 . 1	5 5 5 1 5
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11N 9W 11N 8+50W	. 1 . 1	5 5

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					v			* *	

10+50N 6+75W 10+50N 6+50W 10+50N 6+25W

10+50N 6W 10+50N 5+75W

10+50N 5+50W

10+50N 5+25W

10+50N 5W

83-1192PAGE# 9

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ERR DAW	SON 8	& ASSO	CIATES	PROJECT	#	GROUP	SONG	FILE	#	83-119	72PAGE#	10	
			SAMPLE	-			AG PPM	AU PPB					
			10+50N 10+50N 10+50N	I 4+75W I 4+50W I 4+25W I 4W I 3+75W			. 1 . 4 . 1	55555					
			10+50N 10+50N 10+50N	3+50W 3+25W 3W 2+75W 2+50W			.4 .2 .4 .6	15 5 5 10					
			10N 10 10N 9+ 10N 9W 10N 8+	50W J 50W			.1 .2 .1 .1 .1						
			10N 7+ 10N 7+ 10N 7k 10N 6+	·25₩ ·75₩			. 1 . 1 . 1 . 1 . 1	១១១១១					
			10N 6+ 10N 6W 10N 5+ 10N 5+ 10N 5+	I 75W 50W			. 1 . 1 . 1 . 1 . 1	55555					
			10N 5k 10N 4+ 10N 4+ 10N 4+ 10N 4k	75W 50W 25W			.3.2.1	5 5 5 15					
	,		10N 3+ 10N 3+ 10N 3+ 10N 3W	:50W :25W I			.1 .2 .3 .2 .1						

10N 2+50W 10N 2W 5

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	KERR DAWSON & ASSOCIATES PROJECT :	# GROUP SONG FILE # 83-1192PAGE# 11	
	SAMPLE	AG AU* FPM PPB	
	10N 1+50W	.1 10	
	10N 1W	. 1 5	
	10N O+50W	.2 5	
-	10N OW	.3 5	
	9+50N 7+50W	. 1 5	
	9+50N 7+25W	.1 5	
	9+50N 7W	.1 5	
	9+50N 6+75W	. 1 E	
	9+50N 6+50W	.1 5	
	9+50N 6+25W	. 1 5	
	9+50N 6W	. 1 5	
_	9+50N 5+75W	. 1 5	
	9+50N 5+50W	. 1. 5	
	9+50N 5+25W		
	9+50N 5W	.2 5	
	9+50N 4+75W	.1 5	
	9+50N 4+75W 9+50N 4+50W		
	9+50N 4+25W	.1 5	
		. 2 5	
	9+50N 4W	.2 5	
~~~	9+50N 3+75W	.3 5	
	9+50N 3+50W	. 1 5	
	9+50N 3+25W	. 2	
	9+50N 3W	.2 10	
	9+50N 2+75W	. 1 5	
	9+50N 2+50W	. 1 5	
	9N 10W	. 1 5	
	9N 9+50W	. i = 5	
	9N 9W	.1 5	
	9N 8+50W	.1 5	
	9N 8W	. 1 🗒	
	9N 7+50W	.1 5	
	9N 7+25W	. 1 5	
	9N 7 <b>W</b>	<b>.</b> 1 5	
	9N 6+75W	.1 5	
	9N 6+50W	.1 5	
	9N 6+25W	" 1.	
	9N AM	# 45 to 1	

9N 6W

KERR DAWSON & ASSOCIATES	PROJECT #	GROUP	SONG	FILE #	83-1192FAGE#	12
SAMPLE			AG PPM	AU* PPB		
9N 5+75W 9N 5+50W 9N 5+25W 9N 5W 9N 4+75W	! !		. 1 . 1 . 1 . 1	ज ज व व व व		
9N 4+50W 9N 4+25W 9N 4W 9N 3+75W 9N 3+50W	•		1.1.1.1.1.1.1	10 15 5 5		
9N 3+25W 9N 3W 9N 2+75W 9N 2+50W 9N 2W			. 1 . 2 . 3 . 1 . 1	5 10 5 5		
9N 1+50W 9N 1W 9N 0+50W 9N 0W 8+50N 7+			.1 .5 .2 .7 .3	0000		
8+50N 7+ 8+50N 7W 8+50N 6+ 8+50N 6+ 8+50N 6+	75W 50W		. 1 . 1 . 1 . 1	5 5 10 5		
8+50N 6W 8+50N 5+ 8+50N 5+; 8+50N 5+; 8+50N 5W	75W 50W 25W		. 1 . 1 . 1 . 1 . 1	5 5 5 10 5		
8+50N 4+ 8+50N 4+; 8+50N 4+; 8+50N 4W 8+50N 3+;	50W 25W		.1 .1 2.9 .3 .2	5 5 55 10 5		
. 8+50N 3+; 8+50N 3+;			, 3 , 2	5 5		

KERR	DAWSON	& ASS	DCIATES	PROJECT	#	GROUP	SONG	FILE
			SAMPLE				AG PPM	AU* PPB
			8+50N 3 8+50N 2 8+50N 2 8N 10W 8N 9+50	+75W +50W			. 3 . 1 . 1 . 1	5555
·			8N 9W 8N 8+50 8N 8W 8N 7+50 8N 7+25	W			. 1 . 1 . 1 . 1	10 5 5 5
			8N 7W 8N 6+750 8N 6+250 8N 6+250	M			. 1 . 1 . 1	
			8N 5+75 8N 5+50 8N 5+25 8N 5W 8N 4+75	M M			. 1 . 1 . 1 . 1	00000
			8N 4+50 8N 4+25 8N 4W 8N 3+75 8N 3+50	W			.1 3.4 2.4 .1 .3	5 235 165 5 20
			8N 3+25 8N 3W 8N 2+75 8N 2+50	W			. 1 . 2 . 1 . 1	5555
			8N 1+50 8N 1W 8N 0+50 8N 0W 7+50N 7	W			. 1 . 1 . 1	មាមមាមមា

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7+50N 7+25W 7+50N 7**W** 

# 83-1192PAGE# 13

KERR DAWSON & ASS	OCIATES PROJE	ECT # GROUF	SONG	FILE #	83-1192PAGE#	14
-	SAMPLE		AG PPM	AU* PPB		
	7+50N 6+75W 7+50N 6+50W 7+50N 6+25W 7+50N 6W 7+50N 5+75W		.2 .3 5.0 .1 .1	5 5 5 5		
	7+50N 5+50W 7+50N 5+25W 7+50N 5W 7+50N 4+75W 7+50N 4+50W		. 1 . 1 . 1 . 1	55555		
	7+50N 4+25W 7+50N 4W 7+50N 3+75W 7+50N 3+50W 7+50N 3+25W		.2 1.5 .2 .1 .1	10 70 10 5		
	7+50N 3W 7+50N 2+75W 7+50N 2+50W 7N 10W 7N 9+50W		. 1 . 1 . 2 . 1	55555		
	7N 9W 7N 8+50W 7N 8W 7N 7+50W 7N 7+25W		. 1 . 1 . 1 . 1	55555		
	7N 6+75W 7N 6+50W 7N 6+25W 7N 6W 7N 5+75W		. 1 . 1 . 3 . 1	00000		
	7N 5+50W 7N 5+25W 7N 5W 7N 4+75W 7N 4+50W		. 1 . 1 . 1 . 1	50555		

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7N 4+25W

SAMPLE	AG PPM	AU* PPB
7N 4W 7N 3+75W 7N 3+50W 7N 3+25W 7N 3W	2.2 .1 .1	5 180 5 5 5
7N 2+75W 7N 2+50W 7N 2W 7N 1+50W 7N 1W	.1 .1 .2 .1	55555
7N 0+50W 7N 0W 7N 0+30E 6+50N 7+50W 6+50N 7+25W	.2 .1 .2 .1	5 5 5 15
6+50N 7W 6+50N 6+75W 6+50N 6+50W 6+50N 6+25W 6+50N 6W	. 1 . 1 . 1 . 1	5 5 5
6+50N 5+75W 6+50N 5+50W 6+50N 5+25W 6+50N 5W 6+50N 4+75W	. 1 . 1 . 1 . 1	5 5 5
6+50N 4+50W 6+50N 4+25W 6+50N 4W 6+50N 3+75W 6+50N 3+50W	. 1 . 1 . 1 . 1	5 5 5
6+50N 3+25W 6+50N 3W 6+50N 2+75W 6+50N 2+50W 6N 10W	. 1 . 1 . 1 . 1	5
6N 9+50W 6N 9W	. i	5 5

SAMPLE	AG PPM	AU* FFB
6N 8+50W 6N 8W 6N 7+50W 6N 7+25W 6N 7W	. 6 . 5 . 1 . 4 . 3	55555
6N 6+75W 6N 6+50W 6N 6+25W 6N 6W 6N 5+75W	. 4 . 6 . 7 . 5 . 4	២២២២២
6N 5+50W 6N 5+25W 6N 5+10W 6N 5W 6N 4+75W	-6 -3 -4 -4	4 5 5 5 5
6N 4+50W 6N 4+25W 6N 4W 6N 3+75W 6N 3+50W	. 4 . 2 . 4 . 5 . 4	5 5 10 5
6N 3+25W 6N 3W 6N 2+75W 6N 2+50W 6N 2W	.5 .4 .8 .9	0 0 0 0 0
6N 1+50W 6N 1W 6N 0+50 6N 0W 5N 10W	.2 .4 .8 .4 1.1	5 40 10 5
5N 9+50W 5N 9W 5N 8+50W 5N 8W 5N 7+50W	. 4 . 6 . 1 . 2 . 1	00000
5N 7W 5N 6+50W 5N 6W	.3 .4 .3	5 5

KERR DAWSON & ASSOCIATES P	ROJECT # GROUP	SONG	FILE # (	B3-1192PAGE#	17
SAMPLE			AU* PPB		
5N 5+50W 5N 5W 5N 4+50W 5N 4W 5N 3+50W		.3 .3 .4 .1	10 5 5 5 5		
5N 3W 5N 2+50W 5N 2W 5N 1W 5N 0+50W		. 1 . 1 . 1 . 2 . 4	5 5 10 5		
5N OW 4N 1OW 4N 9+5OW 4N 9W 4N 8+5OW		.4 .2 .2 .3	15 5 10 5		
4N 8W 4N 7+50W 4N 7W 4N 6+50W 4N 6W		. 1 . 1 . 3 . 1	45 5 5 5 5		
4N 5+50W 4N 5W 4N 4+50W 4N 4W 4N 3+50W		. 1 . 2 . 5 . 4 . 4	00000		
4N 3W 4N 2+50W 4N 2W 4N 1+50W 4N 1W		.3 .1 .2 .3	5 5 5 5 10		
4N 0+50W 4N 0W 3N 10W 3N 9W 3N 8+50W		.1 .2 .3 .4 .3	0 0 0 0 0 0 0 0 0 0		

. 4 . 8 5

3N 8W 3N 7+50W

KERR	DAWSON	& ASSO	CIATES	PROJECT	#	GROUP	SONG	FILE #
		;	5AMPLE				AG PPM	AU* PPB
			3N 7W 3N 6+50 3N 6W 3N 5+50 3N 5W				. 2 . 6 . 7 . 1 . 1	5 5 5 5 5
			3N 4+50 3N 4W 3N 3+50 3N 3W 3N 2+50	W			. 4 . 1 . 1 . 1	5 5 5 5
			3N 2W 1+50N 1 1+50N 9 1+50N 7 1+50N 6	+50W W			.3 .2 .7 .3	5 5 5 5
			1+50N 6 1+50N 5 1+50N 5 1+50N 4 1+50N 4	:+50W :W :+50W			. 4 . 3 . 4 . 5	55555
			1+50N 3 1+50N 3 1+50N 2 1+50N 2	W !+50W			.1 .2 .5 .3	5 5 5 5

83-1192PAGE# 18

FERR DAWSUN & ASSU	STATES PROJECT #	GROUP SONG	FILE # 6	39-11A5LUPF#	17
	SAMPLE	AG PPM	AU* PPB		
F F F	R-1 R-2 R-3 R-4 R-5	. 6 . 4 . 4 . 2 . 1	15 5 5 5 5		
F F	R-6 R-7 R-8 R-9 R-10	.1 .7 .2 .1	5 5 10 5 5		
F F 	R-11 R-12 R-13 R-14 R-15	.1 .1 .6 35.0 .6	5 5 5 3100 10		
	R-16 R-17 R-18 R-19 R-20	.8 .5 .5 .2 .7	15 5 5 5 25		
 	R-21 R-22 R-23 R-24 R-25	1.2 11.3 2.4 1.4 3.4	60 660 75 15 430		
; ;	R-26 R-27 R-28 R-29 R-30	2.4 1.6 31.8 1.6 40.0	260 60 3200 70 4500		
F	R-31 R-32 R-33	32.5 29.0 6.9	2700 2600 90		



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83- File No	1192 B
Type of Samples	
Disposition	

# **ASSAY CERTIFICATE**

		<u> </u>	Α		sposition		
No.	Sample	Ag oz/ton	Au oz/ton		No.		
1	R - 14	1.10	.134	1.7.	1		
2					2		
3	22	.26	.073	21.00	3		
4	23	.08	.007		4		
5	24	.05	.002	1.00	5		
6	25	.09	.026	7 1 m	6		
7	26	.07	.024	5,00	7		
8	27	.04	.003		8		
9	28	.94	.128		9		
10	29	.06	.003	1.50	10		
11	30	1.26	.221	1.00	11		
12	31	1.00	.111	-1.7.	12		
13	R - 32	.73	. 126		13		
14					. 14		
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20					20		

All	reports	are	the	conf	fiden tia	ıl p	roperty	/ of	clients.
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DATE SAMPLES RECEIVED.				
DATE REPORTS MAILED	July	25,	1983	
ASSAYER D	De	12		

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

APPENDIX C

WRITER'S CERTIFICATE

#### JOHN R. KERR, P. ENG.

Geological Engineer

#206 - 310 NICOLA STREET • KAMLOOPS, B.C. V2C 2P5 • TELEPHONE (604) 374-0544

## CERTIFICATE

- I, JOHN R. KERR, OF KAMLOOPS, B.C. DO HEREBY CERTIFY THAT:
- (1). I am a member of the Association of Professional Engineers of British Columbia and a Fellow of the Geological Association of Canada.
- (2). I am a geologist employed by Kerr, Dawson and Associates Ltd. of #206- 310 Nicola Street, Kamloops, B.C.
- (3). I am a graduate of the University of British Columbia (1964), with a B.A. Sc. degree in Geological Engineering.
- (4). I am an officer and director of Eureka Resources Inc.,
- (5). I supervised and assisted in the collection of data as compiled in this report. I am the author of this report which is based on the aforementioned data.

John R. Kerr, P. Eng.

December 30, 1983.

KAMLOOPS, B.C.

