

MAP NO.: ASSESSMENT REPORT X
116 B 5 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092671
MINING DISTRICT: Dawson
TYPE OF WORK: Summary Report

REPORT FILED UNDER: Homestake Mineral Development Company Ltd

DATE PERFORMED: Aug 16-29, 1988

DATE FILED: Dec 16, 1988

LOCATION: LAT.: 64° 15' N

AREA: Ballarat Creek

LONG.: 139° 35' W

VALUE \$: 12 600.00

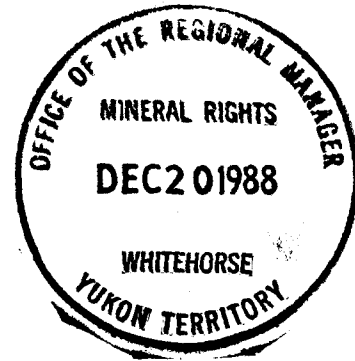
CLAIM NAME & NO.: BALL 1-40 YB 04593-YB 04632

WORK DONE BY: K. Jaworski

WORK DONE FOR: Homestake Mineral Development Company Ltd

DATE TO GOOD STANDING: ; REMARKS: #31 KEYSTONE

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SUMMARY REPORT OF GEOLOGICAL MAPPING
AND LITHOGEOCHEMICAL SAMPLING PROGRAMS
ON THE BALLARAT PROPERTY
FOR THE PERIOD AUGUST 16 - 29, 1988

092671

DAWSON MINING DIVISION
YUKON TERRITORY

CLAIM GROUP: Ball Claims

NTS: 116B/5

LATITUDE: 64° 15' NORTH

LONGITUDE: 139° 20' WEST

OWNER: Homestake Mineral Development Company
1000 - 700 West Pender Street
Vancouver, B.C.
V6C 1G8

OPERATOR: Homestake Mineral Development Company

BY: Kathie M. Jaworski

DATE: November 1988

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150500

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 \$ 12,600.00.

Alfred B. Benge

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

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1.0 SUMMARY

During the period August 16 to August 29, 1988, Homestake Mineral Development completed 1:10,000 scale geological mapping on the Ballarat property, 24 km north of Dawson City, Yukon. The property consists of the BALL claims, 40 contiguous Yukon quartz mining claims staked for Homestake Mineral Development Company in December 1987.

In conjunction with geological mapping 86 lithogeochemical samples were collected and analysed for Au and 30 additional elements.

The property is underlain by a series of gently north dipping felsic to mafic volcanic flows and clastic sediments. Four hundred metres to the south of the property similar stratigraphy has been intruded by a silicified, pyritic quartz feldspar porphyry sill.

Most of the rocks on the property are penetrated by a joint controlled hematite alteration. The highest gold values obtained were from hematite alteration zones within the quartz feldspar porphyry. Only 4 of the 86 rock samples returned results greater than 50 ppb gold. The highest gold value was 131 ppb. No significant amounts of the gold indicator elements Mo, Cu, Pb, Zn, Ag, Co, As, Sb, B, Bi or W were detected. The hematite alteration present on the property is not related to a gold mineralizing event of any significance.

Rocks on the property are nearly undeformed. There are no deformation zones or quartz - Fe carbonate-mariposite alteration zones.

The property does not contain any ultramafic bodies of the type which elsewhere in the region are loci for quartz-Fe carbonate-mariposite alteration.

It is recommended that no further work be done on the Ballarat property or the immediate surrounding area.

2.0 INTRODUCTION

2.1 Scope of Report

This report summarizes the exploration work conducted by Homestake Mineral Development Company for Homestake Mineral Development Company on the Ballarat property (BALL claims) during the period August 16 to August 29, 1988.

2.2 Location and Access

The Ballarat property is located 24 km northeast of Dawson City, Yukon (Figure 1). The property is situated on the Yukon River and may be reached by boat, helicopter or road from Dawson.

Road access is via a severely washed out dirt road which is reached from the forest fire lookout tower on the Midnight Dome Road at Dawson. The property is a difficult 4 hour drive from the fire tower. This same road extends east-west access the length of the property, and is in good condition on the property.

Easiest access to the property is via helicopter from Dawson.

2.3 Physiography

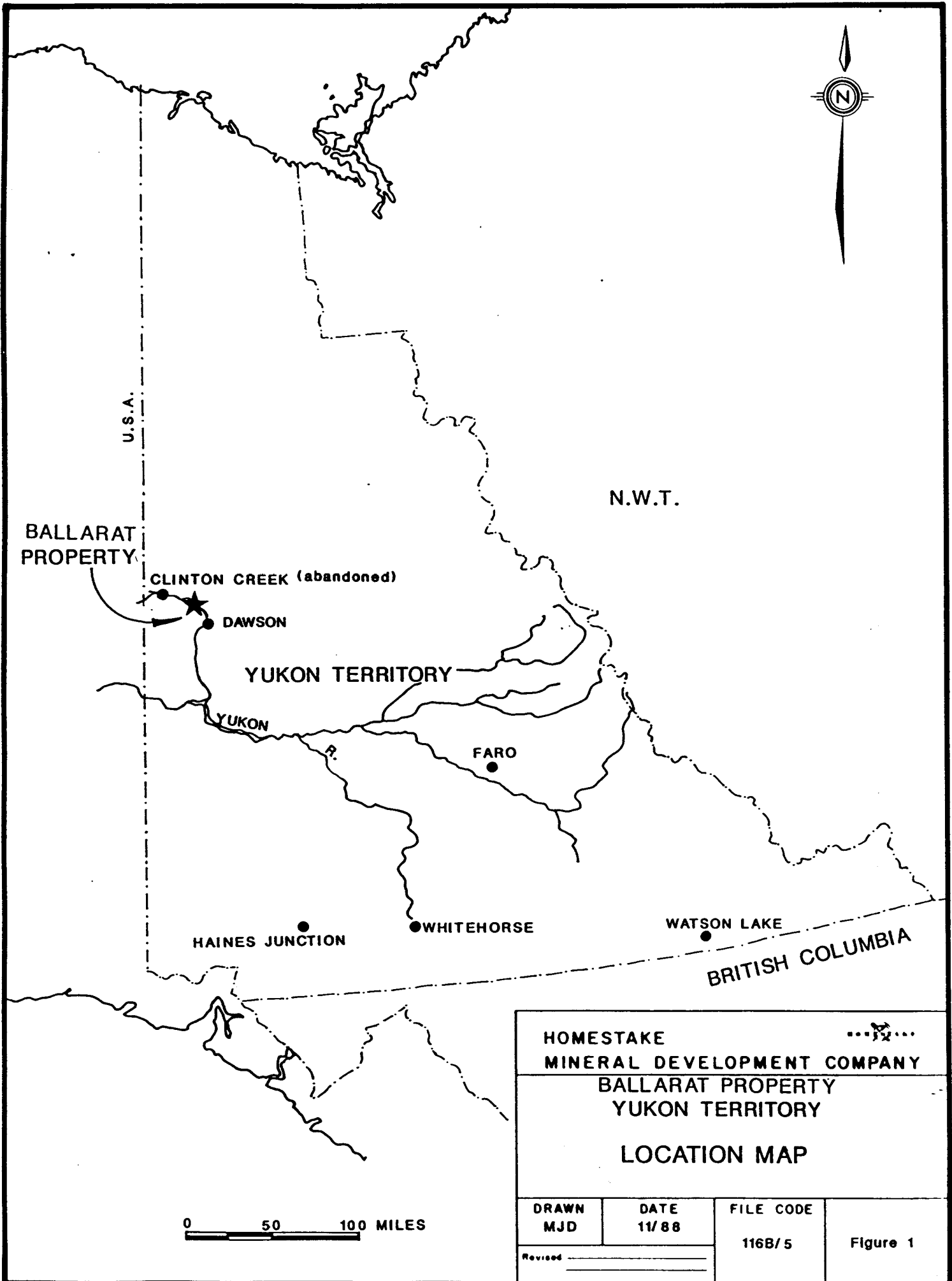
Most of the Ballarat property occupies a plateau between the Yukon River to the southeast and Ballarat Creek to the northwest. The plateau is flat in the eastern part of the property sloping downward at 20° to the Ballarat Creek valley 300 m below. In the western half of the property the plateau is rolling with steep (40 to 50° slope) bare rock slopes of the Yukon River valley eroded into the plateau.

Outcrop is primarily on the cliffs of the Yukon River valley where there is 100% rock exposure. This area is inaccessible in most places. The plateau which comprises most of the property has less than 5% outcrop. There is no outcrop on the lower hillsides or in the Ballarat Creek valley.

The area has not been glaciated and is covered with well developed soils. Vegetation is mixed poplar, spruce and birch in highland regions while low lying regions have a cover of spruce and sphagnum moss.

2.4 Claim Status

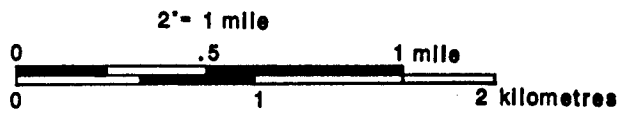
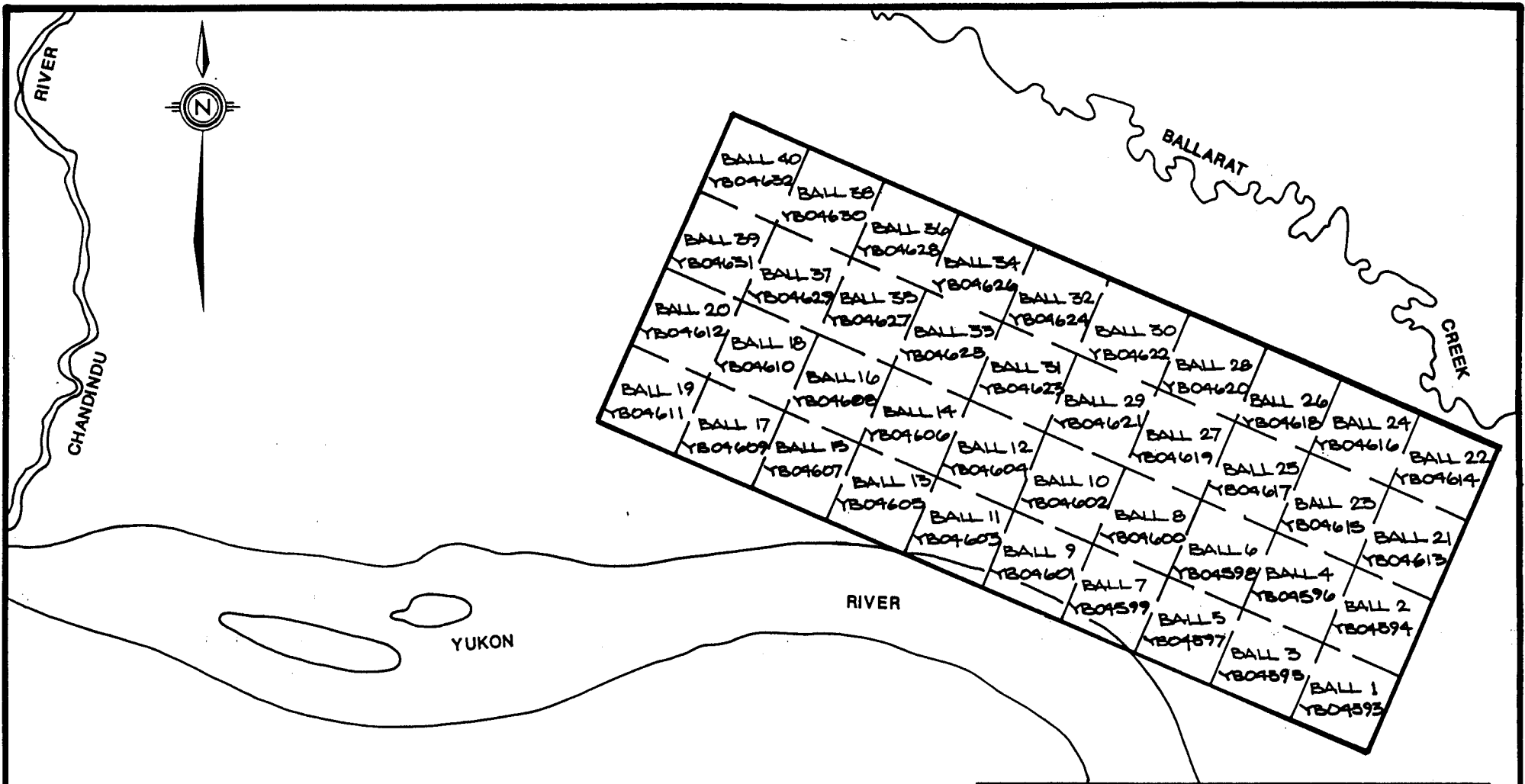
The Ballarat property consists of 40 contiguous Yukon quartz mining claims held by Homestake Mineral Development Company. The claims are BALL 1 YB04593 to BALL 40 YB04632 inclusive (Figure 2). The claims were staked in December 1987 for Homestake Mineral Development and expire on December 18, 1988. Posts for claims BALL 9 YB04601 to BALL 20 YB04612 inclusive do not have claim tags to date.



HOMESTAKE
 MINERAL DEVELOPMENT COMPANY
 BALLARAT PROPERTY
 YUKON TERRITORY
 LOCATION MAP

0 50 100 MILES

DRAWN MJD	DATE 11/88	FILE CODE 116B/5	Figure 1
Revised _____			



1: 31680

HOMESTAKE MINERAL DEVELOPMENT COMPANY			
BALLARAT PROPERTY, YUKON			
CLAIM LOCATION SKETCH			
DRAWN MJD	DATE 1/88	FILE CODE 116B/5	Figure 2
Revised _____			

2.5 Geological Setting

The Ballarat property is situated in the Dawson area, to the southwest of the Tintina Trench, a major structural feature floored by Tertiary clastic sediments. The Tintina Trench is believed to be a major fault structure and separates relatively unmetamorphosed sedimentary rocks to the east from Yukon Group metamorphic rocks to the west (Green, 1972). Most of the area southwest of the Tintina Trench is underlain by low grade metamorphosed sedimentary rocks, predominantly quartzite, schist and limestone. The Klondike Schist, a "distinctive, light coloured quartz and white mica schist" (Green, 1972) extends from the Klondike area south of Dawson to south and west of the Ballarat property. The Ballarat property is situated within a belt of greenstone and greenstone related schists which extend along the Yukon River from several kilometres southeast of the property to Forty Mile.

Granodiorite and quartz monzonite stocks of Cretaceous age intrude the metamorphic rocks southwest of the Tintina Trench. Small Tertiary aged sills of quartz porphyry and rhyolite porphyry also intrude the metamorphic rocks.

A belt of serpentinized alpine type ultramafic rocks parallels the Tintina Trench from the Clinton Creek asbestos mine near Forty Mile to Fifteen Mile River northwest of the Ballarat property.

The area has produced substantial amounts of placer gold, encompassing the Klondike goldfields discovered in 1896. Most of the past and present gold production has been from creeks south of Dawson. However, the Fortymile River was at one time a significant gold producer. Most of the creeks between Forty Mile and Dawson have been worked for placer gold.

2.6 Exploration History

No known previous exploration work has been done on the Ballarat property.

Placer mining claims are presently held on Ballarat Creek and the Chandindu River. These claims are within one mile of the Ballarat property. The extent of past and present placer mining on these creeks is not known.

2.7 Work Completed

During the period August 16 to August 29, 1988 a two person Homestake crew completed geological mapping of the property at a scale of 1:10,000. Eighty-six rock samples were collected and analyzed for Au and 30 additional elements (Appendix I).

3.0 DETAILED TECHNICAL DATA

3.1 Geological Mapping

3.1.1 Methods Employed

Geological mapping was conducted by a two person crew based in a camp established on the road which traverses the property. Access to the property was via helicopter from Dawson to a pre-existing helicopter pad at the campsite.

Geological mapping was at a scale of 1:10,000 (Appendix IV) with traverse lines at 500 m intervals. The northern claim location line was used as a reference point for map construction. Location control along traverse lines was via hip chain and compass. Slope corrections were made using either a clinometer or Brunton compass.

A one day visit was made via boat from Dawson to outcrops on the banks of the Yukon River which were inaccessible from the base camp.

Traverses were conducted as far as safely possible down the steep rock faces along the Yukon River. However, much of this area was inaccessible.

3.1.2 Results and Interpretation

3.1.2(i) Lithologic Units

The Ballarat property is underlain by a series of interlayered felsic to mafic volcanic flows with lesser intercalated coarse and fine clastic sediments. Sediments have a minor chemical sedimentary component containing disseminated magnetite, occasional thin hematite mud beds, occasional calcareous mud beds.

Rare intrusive rocks are present. The largest intrusive is a 20 m thick quartz feldspar porphyry body concordant or subconcordant with volcanic and sedimentary stratigraphy. This quartz feldspar porphyry sill is one of the Tertiary aged quartz porphyries described by Green, 1972.

Other intrusive rocks include one isolated occurrence of granitic rubblecrop and a few metre scale pod-like lenses of quartz-plagioclase intrusive within a plagioclase-hornblende-magnetite bearing clastic sediment.

Volcanic and Sedimentary Rocks

The volcanic-sedimentary stratigraphy consists of an almost undeformed stratigraphic succession which dips shallowly northward toward Ballarat Creek (Appendix IV). The following lithologic descriptions begin at the structural base of the stratigraphic succession.

Unit A - Plagioclase Porphyritic Andesite: Grey, weathering to brown grey. Massive with a blocky appearance. Hard with 15%, 2 to 5 mm subhedral plagioclase phenocrysts and 10%, 1 to 2 mm aggregations of mafic minerals, possibly hornblende. May contain 1% disseminated pyrite.

- Unit B - Argillite: Dark grey to black in colour, weathering to black. Very fine grained. Finely bedded.
- Unit C - Quartz Feldspar Porphyry Sill: Grey to light grey fine grained hard matrix with 3%, 4 to 6 mm euhedral quartz phenocrysts and 7 to 10%, 4 to 8 mm euhedral plagioclase phenocrysts. Massive with silicification in most areas. Silicification ranges from weak to intense. Intensely silicified zones contain up to 5% hairline quartz stringers and locally 50%, 1 to 2 cm white, sulphide free quartz stringers. Contains trace to 1% disseminated pyrite. The unit has a distinctive bright orange and red weathered colour due to pyrite content and local intense hematite alteration along cross-cutting joint sets at 175°/80°E.
- Unit D - Andesite to Basalt: Dark grey weathering to a dark brown to dark grey colour. Fine grained. Local strong silicification appears to be related to silicification within the underlying quartz feldspar porphyry sill.
- Unmapped Stratigraphic Gap: Due to difficult terrain a continuous stratigraphic section was unobtainable.
- Unit E - Plagioclase Phyric Dacite: Grey weathering to light grey. Massive. Unfoliated. Fine grained matrix contains 20%, 1 to 3 mm long subhedral plagioclase phenocrysts. May contain trace to 5% finely disseminated magnetite. Occasionally weakly hematite altered. This unit underlies unit F in the northwestern part of the property. Its presence or absence in other parts of the property is unknown.
- Unit F - Plagioclase - Hornblende - Magnetite Bearing Clastic Sediment and Debris Flow: This unit most commonly occurs as a massive medium grained rock with 25 to 30%, 1 to 3 mm semi-randomly orientated subhedral hornblende in a matrix of 1 to 2 mm subhedral laths of plagioclase. The unit may contain up to 1 to 2%, 2 to 5 mm subrounded chloritic mafic fragments. It is commonly weakly magnetic with 0.5% finely disseminated to 1 mm diameter aggregations of magnetite. It may contain up to 20% chlorite after hornblende. Some coarse grained beds at least 15 m thick containing 35% matrix supported subrounded clasts, averaging 0.5-2 cm diameter, but up to 10 cm diameter are present. Up to 4 clast types are present, being primarily plagioclase-hornblende (15-30%) porphyritic and plagioclase (up to 30%) porphyritic intrusives or flows. There are occasional 10 m thick beds containing greater than 65%, 10-25 cm diameter subrounded clasts. The unit contains minor 1 m thick strongly calcareous mud beds and 1 m thick zones of 1-10 cm thick hematitic mud beds.
- Unit G - Medium Grained Plagioclase Quartz Phyric Dacite: Light grey to beige, weathering to beige and light orange-brown colours with local limonitic staining. Massive. Unfoliated. A fine grained matrix contains 3 to 5%, 1 to 2 mm euhedral quartz, phenocrysts and 8 to 20%, 4 to 6 mm long euhedral plagioclase phenocrysts.

- Unit H - Basalt: Black weathering to brown. Most commonly is fine grained, massive and uniformly textured, but varies to:
1) highly vesicular with 25%, 1 to 3 mm round to ovoid vesicles.
2) amygdaloidal with 1 to 4%, 1 to 5 mm calcite filled amygdules.
3) blocky to fragmental, consisting of densely packed 3 to 10 cm angular to subrounded basalt fragments. Usually non-magnetic or weakly magnetic, but may be strongly magnetic. Unfoliated. Rarely chloritized with locally up to 20% chlorite.
- Unit I - Plagioclase - Quartz Phyric Dacite: Unaltered specimens are light grey to greenish to grey in colour. A fine grained, hard, locally flow banded matrix contains 3 to 6%, 1 to 3 mm subhedral to euhedral quartz phenocrysts and 5 to 10%, 3 to 6 mm long plagioclase phenocrysts. Very rare 1 to 3 cm ovoid quartz-minor fluorite-minor apatite filled vugs are present. Outcrops form massive outcrops of 1 by 1 mm blocks to strongly jointed, breaking into 3 cm wide slabs. This unit is often blood red in colour due to strong joint controlled hematite alteration. The unit occasionally has a white 'bleached' appearance, containing up to 40% matrix kaolinite.
- Unit J - Intermediate Tuff: This is a greyish brown, fine grained rock with a finely granular, ash-like texture. It contains less than 1%, 2 mm diameter euhedral quartz phenocrysts and less than 1%, 1.5 by 3 mm plagioclase phenocrysts. It breaks into 3 to 5 cm thick slabs. This unit was observed at one locality at the northeast corner of the property. Its stratigraphic relationship to other rock units is uncertain. It may be in fault contact with the main Ballarat succession, the fault being along the stream to the east of claim BALL 22.

Intrusive Rocks

- Unit 1 - Granite: White in colour, weathering to pinkish white. Massive. Fine grained. The groundmass consists of 1 mm diameter equigranular plagioclase with 10% interstitial quartz. Contains 15%, 1 to 2 mm phenocrysts of a dark green to black mineral, possibly hornblende. This is a rare rock type, occurring only as rubblecrop, apparently intruding unit F on claim BALL 40.
- Unit 2 - Quartz - Plagioclase Intrusive Lenses: White in colour, weathering to white. Consists of 80%, 1 to 2 mm equigranular, densely packed subhedral quartz crystals with 20% interstitial plagioclase. This is a very rare rock type occurring as less than 2 m diameter pod-like lenses in unit F, on claim BALL 39.

3.1.2(ii) Metamorphism

The Ballarat area has undergone a low grade regional metamorphism. Volcanic rocks have well preserved primary mineralogy and volcanic textures. The presence of chlorite within mafic volcanic rocks suggests a greenschist facies metamorphic grade.

Clastic sedimentary rocks have been recrystallized to plagioclase-hornblende mineral assemblages and argillites.

3.1.2(iii) Structure and Alteration

The Ballarat property is underlain by a nearly undeformed volcanic-sedimentary succession striking at approximately 150° and dipping at 20 to 40° northeast. Minor deformation is present in the gentle folding of the quartz feldspar porphyry sill on the bank of the Yukon River. Variations in the dip of bedding and lithologic contacts from 20 to 85° suggest a past folding event.

Over 99% of the rocks on the property are massive and unfoliated to very weakly foliated. The only occurrence of shear deformation on the property is shearing and folding of wall rocks to the quartz feldspar porphyry sill.

Occasional moderately to steeply dipping brittle faults with slickensided fault surfaces cut stratigraphy at a variety of orientations.

Rocks on the Ballarat property are well jointed. There are at least 6 major joint sets. The 170 to 175°/25°W to 25°E joint set has acted as a structural control for strong hematite alteration. Although this joint set penetrates all lithologies, hematite alteration is restricted primarily to unit I (plagioclase phyric dacite) and unit C (quartz feldspar porphyry sill).

Strong silicification with very minor quartz veining is associated with the quartz feldspar porphyry sill on the Yukon River. The sill itself is very strongly silicified with local strong silicification of the overlying andesite-basalt. Underlying rocks although intensely deformed, have been affected little by silicification.

3.1.2(iv) Sulphide Mineralization

Sulphide mineralization is rare on the property.

A 20 m wide by 15 m deep by 15 m long gossan of 10% disseminated pyrite occurs in plagioclase phyric dacite on the western boundary of claim BALL 40. This gossanous zone is of limited extent with no associated quartz veining.

1% disseminated pyrite is present in a strong silicified quartz feldspar porphyry on the Yukon River. This quartz feldspar porphyry is 400 m south of the BALL claims.

3.2 Lithochemical Sampling

3.2.1 Methods Employed

In conjunction with geological mapping, 86 rock samples were collected. Rock samples represented all lithologies with particular emphasis on collection of samples containing silicification, Fe-carbonate alteration, hematization, sulphide minerals or quartz and/or quartz-Fe-carbonate veining. Rock samples were analysed for Au and 30 additional elements (Appendix II) to attempt to detect gold mineralizing systems through Au content and Au indicator elements.

Rock samples averaged 10 kg in weight. Sample preparation was by Bondar-Clegg and Company Ltd. in Whitehorse. Gold analysis was conducted by Bondar-Clegg in Vancouver via fire assay with atomic absorption finish on a 1 assay ton sample. Acme Analytical Laboratories Ltd., Vancouver conducted 30 element ICP analysis on rock pulps received from Bondar-Clegg, Whitehorse. Analysis was on 500 g of rock pulp.

3.2.2 Results and Interpretation

Only 4 rock samples assayed greater than 50 ppb Au. All of these samples were from the quartz feldspar porphyry sill near the Yukon River. The highest Au value recorded was 131 ppb from a 1 m wide zone of intense hematization in the strongly silicified quartz feldspar porphyry. The highest Au value obtained from rocks outside of the quartz feldspar porphyry was 44 ppb Au from a intensely hematite altered plagioclase-quartz phyruc dacite (Unit I).

No significant amounts of Mo, Cu, Pb, Zn, Ag, Co, As, Sb, Bi, B or W were detected in any of the rock samples.

4.0 CONCLUSIONS AND RECOMMENDATIONS

From an investigation of the Ballarat property it can be concluded that:

- 1) The property is underlain by an interlayered sequence of felsic to mafic volcanic flows and clastic sediments. Four hundred metres to the south of the property similar stratigraphy has been intruded by a silicified, pyritic quartz feldspar porphyry sill.
- 2) Most of the rocks on the property are penetrated by a joint controlled hematite alteration which is not related to any significant gold mineralization.
- 3) The highest gold values occur in hematite alteration zones within the silicified pyritic quartz feldspar porphyry. This Au mineralization is very low grade (maximum value obtained was 131 ppb) and of no economic significance.
- 4) Rocks on the property are almost undeformed.
- 5) The property does not contain any ultramafic bodies of the type which elsewhere in the region are loci for quartz-Fe carbonate-mariposite alteration zones.
- 6) The property does not contain any zones of deformation or quartz-Fe carbonate-mariposite alteration.

It is recommended that:

- 1) No further work be done on the Ballarat property or the immediate surrounding area.

5.0 BIBLIOGRAPHY

Green, L.H. 1972. Geology of Nash Creek, Larsen Creek, and Dawson map - areas, Yukon Territory. Geological Survey of Canada, Memoir 364.

APPENDIX I

Lithogeochemical Data

REPORT: V88-06845.0

PROJECT: BA 5710

PAGE 1

SAMPLE NUMBER	FILAMENT UNITS	Au PPB	SAMPLE NUMBER	FILAMENT UNITS	Au PPB
R2 BA-1-1 28568		<5	R2 BA-37-1 28572		9
R2 BA-1-1 28577		<5	R2 BA-37-1 28573		15
R2 BA-1-1 28739		<5	R2 BA-38-1 28723		13
R2 BA-3-1 28569		<5	R2 BA-39-1 28570		11
R2 BA-3-1 28741		<5	R2 BA-99-1 28730		7
R2 BA-3-2 28746		<5	R2 BA-99-1 28733		6
R2 BA-3-1 28747		6	R2 BA-99-1 28734		11
R2 BA-5-1 28742		<5	R2 BA-99-1 28740		<5
R2 BA-5-1 28743		<5			
R2 BA-9-1 28744		5			
R2 BA-9-1 28745		<5			
R2 BA-11-1 28561		<5			
R2 BA-11-1 28729		<5			
R2 BA-11-1 28731		<5			
R2 BA-11-1 28732		<5			
R2 BA-14-1 28728		<5			
R2 BA-25-1 28735		<5			
R2 BA-27-1 28738		<5			
R2 BA-28-1 28566		<5			
R2 BA-28-1 28567		<5			
R2 BA-28-1 28736		<5			
R2 BA-28-1 28737		<5			
R2 BA-29-1 28562		13			
R2 BA-29-1 28563		15			
R2 BA-29-1 28564		8			
R2 BA-29-1 28565		7			
R2 BA-29-1 28576		<5			
R2 BA-33-1 28560		5			
R2 BA-24-1 28555		<5			
R2 BA-24-1 28556		<5			
R2 BA-24-1 28557		5			
R2 BA-24-1 28558		16			
R2 BA-24-1 28559		7			
R2 BA-35-1 28574		5			
R2 BA-35-1 28575		5			
R2 BA-36-1 28724		6			
R2 BA-36-1 28725		<5			
R2 BA-36-1 28726		<5			
R2 BA-36-1 28727		<5			
R2 BA-37-1 28571		8			

Bondar-Clegg & Company Ltd.
1000 Amberton Ave.
West Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667



Geochemical Lab Report

REPORT: V88-06872.0

PROJECT: BA 5710

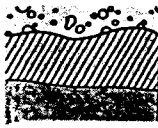
PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
------------------	------------------	-----------

R2 BA-99-1: 28748		20
R2 BA-99-1: 28749		54
R2 BA-99-1: 28750		67
R2 BA-99-1: 28751		86
R2 BA-99-1: 28752		5

R2 BA-99-1: 28753		15
R2 BA-99-1: 28578		13
R2 BA-99-1: 28579		131
R2 BA-99-1: 28580		10
R2 BA-99-1: 28581		11

R2 BA-99-1: 28582		20
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REPORT: V88-II6833.0

PROJECT: 5710 BA

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB
------------------	------------------	---------------

R2 BA-36-1	28550	<5
R2 BA-35-1	28551	<5
R2 BA-40-1	28552	<5
R2 BA-99-1	28553	<5
R2 BA-15-1	28554	<5

R2 BA-36-1	28701	<5
R2 BA-35-1	28702	<5
R2 BA-35-1	28718	13
R2 BA-35-1	28719	<5
R2 BA-39-1	28703	<5

R2 BA-39-1	28704	<5
R2 BA-39-1	28712	<5
R2 BA-39-1	28715	<5
R2 BA-99-1	28705	<5
R2 BA-99-1	28706	<5

R2 BA-99-1	28707	<5
R2 BA-99-1	28708	<5
R2 BA-99-1	28711	<5
R2 BA-40-1	28709	<5
R2 BA-40-1	28710	<5

R2 BA-37-1	28713	<5
R2 BA-37-1	28714	44
R2 BA-37-1	28716	<5
R2 BA-37-1	28717	<5
R2 BA-15-1	28720	<5

R2 BA-16-1	28721	<5
R2 BA-16-1	28722	<5

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK PULP

MASTER
NTS: BALLARAT
11.YK.10SC
PAR

PMB

DATE RECEIVED: SEP 21 1988 DATE REPORT MAILED: *Sept 26/88* ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

HOMESTAKE MINERAL DEV. CO. File # 88-4681 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM
BA-34-1 28555	2	3	24	62	.1	3	1	90	1.56	7	5	ND	24	4	1	2	2	5	.06	.011	67	77	.06	35	.02	3	.38	.02	.16	1
BA-34-1 28556	1	1	35	54	.1	2	2	238	.72	2	5	ND	11	7	1	2	2	2	.06	.008	38	42	.05	50	.02	2	.47	.01	.27	1
BA-34-1 28557	1	2	28	48	.1	3	1	100	.98	10	5	ND	11	6	1	2	2	1	.14	.008	41	76	.03	57	.03	7	.49	.01	.27	4
BA-34-1 28558	1	5	13	62	.2	2	3	660	1.91	3	5	ND	3	6	1	2	2	33	2.24	.074	20	10	.22	51	.09	3	2.90	.02	.15	2
BA-34-1 28559	1	1	37	66	.2	2	1	176	1.10	4	5	ND	11	12	1	2	2	2	.07	.009	36	53	.03	86	.03	2	.51	.02	.25	1
BA-33-1 28560	1	9	20	80	.1	4	6	714	3.33	7	5	ND	4	85	1	2	2	67	.88	.116	37	23	.39	66	.15	5	.91	.05	.10	1
BA-11-1 28561	2	3	32	92	.1	3	1	185	1.61	5	5	ND	19	20	1	2	2	6	.29	.017	60	83	.09	37	.10	3	.46	.03	.14	1
BA-29-1 28562	2	3	28	66	.1	2	1	180	1.87	7	5	ND	25	5	1	2	2	4	.08	.011	52	74	.03	41	.05	4	.32	.03	.12	1
BA-29-1 28563	1	3	25	65	.1	3	2	227	1.21	4	5	ND	19	6	1	2	2	4	.12	.014	15	48	.06	56	.03	2	.43	.03	.18	1
BA-29-1 28564	1	15	12	82	.1	28	13	342	3.85	8	5	ND	12	31	1	2	3	48	1.30	.141	33	56	1.34	71	.30	2	1.89	.05	.11	1
BA-29-1 28565	1	36	7	92	.1	54	27	752	7.08	3	5	ND	2	63	1	2	2	121	2.62	.125	15	67	2.82	23	.70	2	3.48	.04	.05	1
BA-28-1 28566	1	3	35	58	.1	4	2	153	1.35	12	5	ND	19	6	1	3	3	8	.13	.013	20	46	.11	51	.02	2	.56	.02	.18	1
BA-28-1 28567	1	27	10	89	.1	51	26	759	6.42	2	5	ND	3	42	1	3	2	120	3.89	.118	13	64	3.02	43	.69	2	4.26	.01	.05	1
BA-1-1 28568	1	30	3	77	.1	51	24	762	6.06	2	5	ND	2	54	1	2	2	110	3.45	.103	16	67	2.88	14	.62	2	2.63	.09	.05	1
BA-3-1 28569	1	3	29	134	.1	2	1	209	1.54	7	5	ND	12	26	1	2	2	3	.65	.007	71	44	.08	16	.05	2	1.07	.02	.16	1
BA-39-1 28570	2	2	34	65	.1	2	1	110	1.38	2	5	ND	22	7	1	2	2	2	.07	.006	52	96	.03	53	.01	3	.55	.04	.21	1
BA-37-1 28571	1	3	27	49	.1	3	1	126	1.41	7	5	ND	26	6	1	2	2	1	.06	.006	49	108	.03	48	.01	2	.63	.03	.19	1
BA-37-1 28572	1	32	2	86	.1	52	22	546	5.05	5	5	ND	3	98	1	3	2	24	1.69	.163	22	47	2.19	34	.14	2	2.37	.22	.07	1
BA-37-1 28573	1	22	23	121	.1	23	9	582	5.72	36	5	ND	6	23	1	2	2	89	.65	.042	52	35	.67	57	.18	2	2.37	.01	.13	1
BA-35-1 28574	1	29	8	88	.1	52	25	829	6.43	3	5	ND	2	52	1	2	2	93	2.07	.123	18	56	2.99	83	.65	2	3.97	.04	.03	1
BA-35-1 28575	1	25	11	90	.1	52	24	1000	6.69	4	5	ND	3	117	1	2	2	106	3.37	.121	22	67	2.91	93	.63	4	4.35	.04	.08	1
BA-29-1 28576	1	31	4	68	.2	48	21	325	4.65	2	5	ND	2	111	1	2	2	29	1.81	.170	23	16	1.68	55	.08	2	2.64	.26	.07	1
BA-1-1 28577	1	10	17	51	.1	6	8	811	3.55	4	5	ND	7	108	1	2	2	67	.76	.087	47	19	.33	228	.18	2	1.78	.04	.18	2
BA-38-1 28723	1	2	34	54	.1	5	1	101	1.80	9	5	ND	25	8	1	2	2	2	.23	.007	70	89	.09	42	.02	3	.52	.02	.23	1
BA-36-1 28724	1	20	19	62	.1	3	7	553	3.40	7	5	ND	3	232	1	2	2	69	2.93	.115	25	23	.40	37	.12	9	2.80	.03	.11	1
BA-36-1 28725	1	25	10	89	.2	12	10	703	4.41	3	5	ND	2	174	1	2	2	85	1.49	.144	12	34	2.31	67	.26	2	3.24	.09	.09	1
BA-36-1 28726	1	18	11	53	.2	4	7	1222	3.35	4	5	ND	3	188	1	2	3	72	3.84	.129	35	13	1.00	132	.02	6	1.44	.02	.19	1
BA-36-1 28727	1	2	31	52	.1	2	2	174	1.50	8	5	ND	22	11	1	2	2	2	.24	.012	78	53	.09	19	.02	2	.51	.03	.15	1
BA-14-1 28728	2	3	29	70	.1	4	1	200	1.64	8	5	ND	23	5	1	2	2	4	.11	.008	45	116	.29	42	.06	4	.48	.02	.16	1
BA-11-1 28729	2	4	111	114	.1	3	2	400	2.25	10	5	ND	19	6	1	9	3	6	.20	.021	36	52	.09	64	.10	2	.59	.03	.12	1
BA-99-1 28730	1	20	15	63	.1	6	8	484	3.04	3	5	ND	3	185	1	2	2	39	1.54	.071	25	21	.36	67	.14	3	1.98	.03	.14	2
BA-11-1 28731	2	4	34	97	.1	4	1	144	1.66	10	5	ND	18	22	1	2	2	7	.28	.019	52	117	.06	45	.11	5	.37	.03	.12	1
BA-11-1 28732	1	25	14	91	.1	56	28	763	6.83	7	5	ND	2	44	1	2	2	102	1.79	.129	13	59	3.83	46	.65	3	3.01	.05	.04	1
BA-99-1 28733	2	2	33	76	.1	2	1	202	1.84	5	5	ND	19	9	1	2	4	2	.28	.014	43	110	.08	43	.08	8	.62	.04	.13	1
BA-99-1 28734	1	7	32	87	.1	7	3	320	1.80	3	5	ND	22	309	1	2	2	10	1.10	.025	91	15	.32	155	.01	2	2.77	.04	.49	1
BA-25-1 28735	1	9	8	80	.1	49	24	714	5.71	4	5	ND	1	73	1	3	2	68	1.67	.147	14	42	2.65	49	.23	2	3.24	.02	.07	3
STD C	17	59	41	132	6.8	68	29	1014	4.22	42	17	7	37	48	18	16	22	59	.50	.094	39	57	.95	178	.07	33	2.03	.06	.13	12

SAMPLE	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Tl	B	Al	Na	K	V
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM
BA-28-1 28736	2	2	25	50	.1	3	1	110	1.46	2	5	ND	27	4	1	2	2	3	.06	.009	47	89	.08	24	.01	2	.41	.02	.15	1
BA-28-1 28737	1	34	7	82	.1	49	26	524	6.50	2	5	ND	3	90	1	2	2	133	2.39	.122	14	68	1.89	55	.59	2	3.74	.25	.11	1
BA-27-1 28738	1	8	45	54	.1	5	3	233	2.19	25	5	ND	23	8	1	2	2	14	.22	.030	59	81	.26	41	.03	4	.96	.03	.16	1
BA-01-1 28739	2	3	31	74	.1	4	1	151	1.54	6	5	ND	11	10	1	2	2	5	.20	.007	65	64	.13	18	.02	2	.57	.02	.11	1
BA-99-1 28740	2	3	36	36	.1	3	1	71	1.46	5	7	ND	16	12	1	2	2	2	.07	.015	40	80	.04	22	.01	2	.44	.02	.15	1
BA-03-1 28741	1	32	5	78	.1	48	21	342	5.36	10	5	ND	4	72	1	2	2	49	1.95	.204	28	43	2.21	39	.15	2	2.37	.16	.08	1
BA-05-1 28742	1	4	31	67	.1	3	1	160	1.80	6	8	ND	22	8	1	2	2	3	.18	.012	28	53	.11	15	.07	2	.65	.03	.10	1
BA-09-1 28743	2	3	30	61	.1	4	1	194	1.60	9	5	ND	24	4	1	2	2	1	.13	.015	51	88	.04	35	.06	2	.46	.03	.14	1
BA-09-1 28744	1	3	25	90	.1	2	1	97	2.16	4	6	ND	18	6	1	2	2	2	.25	.015	32	52	.07	33	.11	2	.53	.03	.12	3
BA-09-1 28745	1	16	9	104	.1	14	21	684	6.86	2	5	ND	4	36	1	2	2	99	2.20	.211	32	25	2.21	24	.77	2	2.61	.05	.05	1
BA-03-1 28746	1	32	4	101	.1	46	26	656	7.00	12	5	ND	2	50	1	2	2	54	1.58	.169	23	11	2.32	21	.38	2	2.99	.08	.05	1
BA-03-1 28747	1	36	8	99	.1	39	21	375	6.14	4	5	ND	2	61	1	2	2	43	1.89	.255	34	9	1.02	41	.18	2	2.35	.08	.10	1
STD C	17	58	39	132	6.7	67	29	1014	4.26	43	18	8	37	47	18	20	19	58	.50	.092	38	57	.94	177	.07	33	2.06	.06	.14	12

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP --.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR HG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK PULP

MASTER
~~11.16.1047.12~~
5710 BA
P.R. BALLARAT
11.YK.105C.
PAR

DATE RECEIVED: SEP 14 1988

DATE REPORT MAILED: *Sept 17/88*

ASSAYER: *C. Long* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

HOMESTAKE MINERAL DEV. CO. File # 88-4471

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mn	Co	Ni	Fe	As	U	Au	Hg	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM
28550	1	4	149	64	.1	1	1	140	1.92	2	5	ND	24	6	1	22	2	3	.10	.007	54	66	.09	30	.02	2	.57	.02	.16	1
28551	1	2	49	27	.1	1	1	67	.68	2	5	ND	18	4	1	2	2	1	.07	.009	59	56	.05	43	.01	2	.41	.02	.17	2
28552	1	3	51	18	.1	1	1	91	.76	2	6	ND	2	22	1	3	2	6	.14	.011	4	81	.08	60	.04	4	.37	.05	.15	2
28553	1	12	27	64	.1	4	2	413	4.82	15	5	ND	1	287	1	2	2	118	2.38	.164	10	36	1.04	43	.23	3	4.20	.04	.09	1
28554	1	21	22	88	.1	33	24	389	4.67	4	5	ND	1	136	1	2	2	24	2.73	.166	25	18	1.92	52	.10	3	3.12	.27	.08	1
28701	1	3	73	55	.1	1	1	73	1.27	2	5	ND	23	6	1	7	2	3	.11	.009	46	54	.07	26	.01	2	.52	.02	.20	1
28702	2	1	33	56	.2	1	1	85	1.55	2	5	ND	24	4	1	2	2	2	.05	.013	128	39	.04	38	.01	2	.44	.02	.17	2
28703	1	2	59	60	.1	3	3	228	1.42	2	5	ND	14	9	1	2	2	13	.23	.041	25	61	.21	42	.09	11	.53	.03	.15	1
28704	1	9	87	95	.1	4	5	428	3.50	6	5	ND	14	19	1	12	2	25	.74	.107	49	42	.37	72	.19	9	.88	.05	.17	1
28705	1	4	48	39	.1	1	4	666	2.39	3	5	ND	3	105	1	8	2	33	2.49	.114	30	20	.43	131	.10	2	.85	.03	.16	2
28706	1	3	31	59	.1	2	4	492	2.50	2	5	ND	1	584	1	2	2	40	2.52	.079	16	6	.41	80	.07	2	3.19	.05	.13	1
28707	1	10	24	61	.1	4	2	344	4.73	19	5	ND	1	257	1	2	2	126	1.54	.171	15	41	1.51	98	.31	5	3.33	.03	.10	1
28708	1	13	21	64	.1	5	1	329	4.62	16	5	ND	1	356	1	2	2	124	1.68	.168	12	40	1.17	157	.31	10	3.58	.04	.11	1
28709	1	8	21	58	.1	1	4	510	2.17	3	5	ND	2	524	1	2	3	41	3.05	.076	19	7	.59	108	.09	2	4.12	.02	.14	1
28710	1	26	45	438	.3	4	9	1483	3.83	6	5	ND	3	192	1	2	2	65	3.62	.108	32	14	.66	98	.10	2	1.44	.03	.18	1
28711	1	33	24	86	.2	19	16	1104	5.11	4	5	ND	1	547	1	2	2	149	5.81	.157	15	57	1.14	288	.08	6	2.16	.18	.10	1
28712	1	3	58	85	.2	3	1	196	1.53	2	5	ND	25	17	1	4	2	4	.23	.020	61	79	.07	148	.01	6	.67	.03	.19	1
28713	2	3	73	61	.1	3	1	130	1.85	7	5	ND	24	10	1	8	2	3	.12	.010	84	65	.05	29	.01	4	.54	.02	.26	2
28714	24	4	61	55	.8	1	1	53	1.69	66	5	ND	23	6	1	10	2	1	.07	.009	57	73	.02	27	.01	2	.52	.03	.18	1
28715	1	6	58	72	.1	4	4	255	2.60	7	5	ND	7	84	1	8	2	34	1.16	.051	47	23	.27	180	.01	2	1.38	.03	.23	1
28716	1	2	35	33	.1	1	1	139	1.06	2	5	ND	24	8	1	2	2	1	.10	.005	35	57	.04	45	.01	2	.60	.02	.18	3
28717	1	3	54	55	.2	2	1	83	1.38	2	5	ND	20	8	1	2	3	1	.08	.006	56	44	.04	79	.01	2	.72	.03	.18	1
28718	10	3	44	30	.5	2	1	41	1.16	13	5	ND	14	9	1	10	2	1	2.26	.002	48	75	.04	293	.01	5	2.01	.04	1.42	1
28719	1	3	47	57	.2	2	1	320	1.40	5	5	ND	21	8	1	2	2	3	.14	.015	67	62	.05	56	.01	2	.49	.03	.22	1
28720	1	34	25	84	.1	3	6	585	2.64	2	5	ND	3	84	1	2	2	34	1.39	.084	31	25	.40	73	.12	3	1.48	.03	.21	1
28721	1	4	59	80	.3	3	1	305	1.34	2	5	ND	21	6	1	3	2	2	.25	.013	64	74	.07	19	.02	3	.38	.03	.20	2
28722	2	3	73	56	.1	3	1	139	1.40	5	5	ND	25	7	1	5	2	2	.08	.009	51	75	.04	34	.01	3	.53	.03	.21	2
43957	1	5	27	79	.1	4	2	510	2.85	14	7	ND	5	128	1	3	2	7	6.66	.026	20	12	1.76	240	.10	2	1.42	.01	.08	2
STD C	18	58	41	132	6.6	67	29	1013	4.12	43	18	8	36	47	18	17	17	58	.49	.092	38	55	.93	178	.07	33	1.98	.06	.13	15

APPENDIX II

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I Kathie M. Jaworski of Box 1590, Kenora, Ontario, P9N 3X7 hereby certify that:

1. I am currently employed by Homestake Mineral Development Company with offices at #1000 - 700 West Pender Street, Vancouver, B.C., V6C 1G8.
2. I have worked in the field of mineral exploration since 1982.
3. I am a graduate of the University of Waterloo, Waterloo, Ontario with a Hon. B.Sc (Co-op) in Earth Science (1985) and a graduate of McGill University, Montreal, Quebec with a M.Sc.(A) in Mineral Exploration (1987).
4. This work is based on my personal work on the property, the work of the field staff listed below and a review of all pertinent data.
5. Field staff on the project were:
 - Christopher Martin, 3 Massey Drive, St. Thomas, Ontario N5R 3M6.
B.Sc. Geology, Lakehead University, Thunder Bay, Ontario (1988).


Kathie M. Jaworski

APPENDIX III

Statement of Expenditures

STATEMENT OF EXPENDITURES

1.	LABOUR		
	K.M. Jaworski, Geologist		
	\$124.00/day x 19 days	\$2,356.00	
	C. Martin, Geologist		
	\$115.00/day x 17 days	<u>2,082.78</u>	
			\$ 4,311.00
2.	TRAVEL		
	K.M. Jaworski	<u>359.30</u>	
			\$ 359.30
3.	SUPPORT COSTS		
	Food and accomodation	1,805.00	
	Transportation: Fuel	154.00	
	Truck Depreciation		
	\$35.00/day x 17 days	595.00	
	Miscellaneous field equipment and supplies	954.63	
	Maintenance and repairs	160.00	
	Shipping costs		
	Atlin Trucking, Arctic Bus Lines	45.40	
	Maps, publications and photographs	8.00	
	Communications		
	B.C. Telephone Company	<u>120.76</u>	
			\$ 3,843.01
4.	AIR SUPPORT COSTS		
	Capital Helicopter		
	5.1 hours @ \$550.00/hr. + fuel	<u>3,206.62</u>	
			\$ 3,206.62
5.	ANALYTICAL COSTS		
	Bondar-Clegg & Company Ltd.		
	86 Au analysis @ \$10.00/analysis	860.00	
	Acme Analytical Laboratories Ltd.		
	86 multi-element ICP analysis		
	@ \$8.00/analysis	<u>688.00</u>	
			\$ 1,548.00
6.	DRAFTING AND REPORT PREPARATION		
	K.M. Jaworski, Geologist		
	\$124.00/day x 5 days	620.00	
	M. Dawson, Draftsperson		
	\$15.00/hour x 4.5 hours	<u>67.50</u>	
			\$ 687.50
	TOTAL EXPENDITURES		<u><u>\$13,955.43</u></u>

APPENDIX IV

Ballarat Property Geology
1:10,000 Map

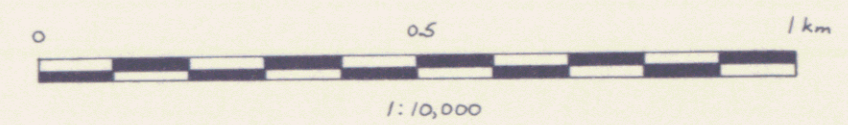


LEGEND

- VOLCANIC AND SEDIMENTARY ROCKS**
- J** Intermediate Tuff: Greyish-brown, weathering to grey and brown. Fine grained. Finely granular, ash-like texture. <1% 2mm diam. euhedral quartz phenocrysts. <1% 1.5-3mm plagioclase phenocrysts. Breaks into 3-5cm slabs.
 - I** Plagioclase-Quartz Phyric Dacite: Light grey to greenish grey. Fine grained, hard, locally flow banded matrix. 3-6% 1-3mm subhedral to euhedral quartz phenocrysts. 5-10% 3-6mm long plagioclase phenocrysts. Very rare 1-3cm ovoid quartz-minor fluorite-minor apatite filled vugs. Varies from massive outcrops of 1m x 1m blocks to strongly jointed, breaking into 3cm thick slabs. Commonly strong joint controlled hematite alteration. Often blood red in colour. Occasional white bleached appearance with up to 40% matrix kaolinite.
 - H** Basalt: Black weathering to brown. Most commonly fine grained, massive, uniform textured, but varies to: 1) highly vesicular with 25% 1-3mm round to ovoid vesicles 2) amygdaloidal with 1-4% 1-5mm calcite filled round and ovoid amygdules 3) blocky-fragmental consisting of densely packed 3-10cm angular to subrounded basaltic fragments. Usually non-magnetic to weakly magnetic, but may be strongly magnetic. Unfoliated. Rarely chloritized, with locally up to 20% chlorite.
 - G** Medium Grained Plagioclase Quartz Phyric Dacite: Light grey to beige. Fine grained matrix. 3-5% 1-2mm euhedral quartz phenocrysts. 8-20% 4-6mm long euhedral plagioclase phenocrysts. Massive. Unfoliated. Weathers to beige to light orange-brown with local limonitic staining.
 - F** Plagioclase-Hornblende-Magnetite Bearing Clastic Sediment and Debris Flow: Most commonly occurs as massive, medium grained with 25-30% 1-3mm, randomly orientated subhedral hornblende in a matrix of 1-2mm randomly orientated subhedral laths of plagioclase with minor euhedral plagioclase. May contain up to 1-2% 2-5mm subrounded chloritic mafic fragments. Commonly weakly magnetic with 0-5% dis. to 1mm aggregations of magnetite. May contain up to 20% chlorite after hornblende. Some coarse grained beds at least 15m thick containing 35% matrix supported subrounded clasts, averaging 0.5-2cm, but up to 10cm diameter. Up to 4 clast types; primarily plagioclase-hornblende (15-30%) porphyritic and plagioclase (up to 30%) porphyritic intrusive or flow. Trace fragments of hematite altered plagioclase porphyritic dacite. Occasional 10m thick beds of >65% 10-25cm subrounded clasts. Minor 1m thick dark grey, weathering to white, strongly calcareous muddy beds. Minor 1m thick zones of 1-10cm thick hematitic muddy beds.
 - E** Plagioclase Phyric Dacite: Grey weathering to light grey. Fine grained, massive matrix with 20% 1-3mm long subhedral plagioclase. May contain trace to 5% finely disseminated magnetite. Occasionally weakly hematite altered. Massive. Unfoliated.
- Unmapped Stratigraphic Gap**
- D** Andesite - Basalt: Dark grey to black, weathering to dark brown to grey. Fine grained. Massive. Non magnetic.
 - C** Quartz Feldspar Porphyry (Sill?): Grey to light grey, fine grained, hard matrix. 3% 4-6mm euhedral quartz phenocrysts. 7-10% 4-8mm euhedral plagioclase phenocrysts. Massive. Silicified in most areas with silicification ranging from weak to intense. Intensely silicified areas have up to 5% hairline quartz stringers and locally 50% 1-2cm white, sulphide free quartz stringers. Generally pyritic with trace to 1% disseminated very fine and 4mm cubic pyrite. Distinctive, strong bright orange and red weathering due to pyrite content and local intense hematite alteration along crosscutting joint sets.
 - B** Argillite: Dark grey to black, weathering to black. Very fine grained. Overall finely bedded appearance. Uniform colour.
 - A** Plagioclase Porphyritic Andesite: Grey weathering to brown to grey. Massive with a blocky appearance. Hard. 15% 2-5mm subhedral plagioclase phenocrysts. 10% 1-2mm aggregations of mafic minerals, possibly hornblende. Non magnetic. May contain 1% disseminated blebs of pyrite.
- INTRUSIVE ROCKS**
- 1** Granite: White weathering to white to slight pinkish white. Massive. Fine grained. Groundmass of 1mm diameter equigranular plagioclase with 10% interstitial quartz. 15% 1-2mm dark green to black mafic mineral, possibly hornblende. A rare rock type. Seen only as rubble crop, apparently intruding unit E.
 - 2** Quartz - Plagioclase Intrusive (?) Pods: White weathering to white. 80% 1-2mm equigranular densely packed subhedral quartz crystals with 20% interstitial plagioclase. Occurs as very rare, isolated irregular pods, 4x2m in size with unit E.

KEY

- Bedding: vertical, dipping
- Joint: vertical, dipping
- Fault: dipping
- Geological Contact: observed, inferred
- Scarp: >30° slope, 15°-30° slope, 5°-15° slope
- Stream
- Outcrop
- Talus
- Rubblecrop
- Claim post
- Location Line: Blazed and flogged
- Claim boundary: unmarked
- Road: driveable
- Road: overgrown



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GEOLOGY 645

DRAWN KJ	DATE 09/88	FILE CODE 116 B/5
Revised		092671

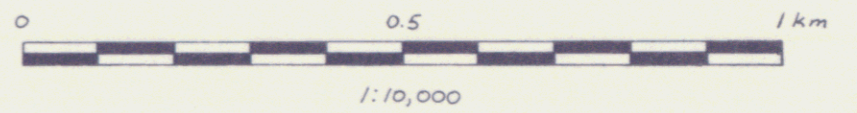
APPENDIX V

Ballarat Property Rock Sample
Location and Gold Geochemistry
1:10,000 Map



KEY

- X 28702 (3) Rock sample location, sample number, Au in ppb
- Scarp: >30° slope, 15°-30° slope, 5°-15° slope
- Outcrop
- Talus
- △ Rubblecrop
- Claim post
- Location Line: Blazed and flagged
- - - Claim boundary: unmarked
- Road: driveable
- - - Road: overgrown
- - - Geological traverse line
- - - Abandoned power line (1/4" cable)
- Stream



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BALLARAT PROPERTY, YUKON			
ROCK SAMPLE LOCATION AND GOLD GEOCHEMISTRY			
DRAWN KJ	DATE 09/88	FILE CODE 116B/5	646
Revised _____			