

ASSESSMENT REPORT  
GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL, AND PERCUSSION DRILLING

CLAIMS

Hearne 1 & 2, PB 1 to 3, BG 1 to 8, HG 1 to 6

OMINECA MINING DIVISION

93° 11' W  
55° 11' 126° 18'  
RECORD NUMBERS

242812-242813, 321701-321703, 317528-317535, 319913-319918

for

BOOKER GOLD EXPLORATIONS LIMITED

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609 West Hastings Street  
Vancouver, B.C.

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GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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Prospector

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## SUMMARY AND CONCLUSIONS

1. The Hearne Hill claims of Booker Gold Explorations Limited are situated in the Babine Lake district of British Columbia, 65 kms. northeast of Smithers.
2. The property is underlain by volcanic rocks belonging to the middle Jurassic Hazelton group, which consist principally of water lain grey lapilli crystal tuffs and grey andesites, with some associated sedimentary rocks (principally gritty greywackes, siltstones and buff felsic tuffs).
3. The volcanic sequence has been intruded by porphyritic intrusions of approximately 50 million years age which belong to the Tertiary-Eocene Babine igneous suite.
4. Associated with the Babine intrusives on the Hearne Hill property are two types of copper, molybdenum, gold, silver deposits, as follows:
  - a. a stock work porphyry-copper of the general Babine type;
  - b. a breccia pipe situated within the porphyry deposit which contains high-grade copper-gold mineralization.
5. In the stock work copper/molybdenum porphyry deposit, chalcopyrite, pyrite and molybdenite occur in fracture fillings, disseminations and stockwork quartz veinlets in biotite feldspar porphyry (BFP) and in the surrounding Hazelton volcanic country rock. The host rocks contain biotite and quartz, sericite alteration. Drilling of this deposit by Texas Gulf Sulphur and Canadian Superior Oil in 1968 indicated a geological reserve of 60 million tonnes grading 0.16% copper, 0.1 g/tonne gold, which includes a higher grade core of 16 million tonnes grading 0.32% copper, 0.1 g/tonne gold (at 0.2% copper cutoff).
6. The breccia pipe, situated within the porphyry-copper stockwork, consists of angular clasts up to several tens of centimetres in size of biotite-feldspar-porphyry and Hazelton volcanics. Open space in the breccia prior to mineralization was estimated (Ogryzlo 1991) at 5 to 20% of rock volume.

Chalcopyrite and pyrite and lesser chalcocite had been deposited in the space between the angular clasts. The largest observed cavity filled with chalcopyrite is in the order of 60 centimetres wide and graded 16% copper. Copper grades appear to be highest adjacent to the hanging wall, which may have acted as a trap for the mineralization. Grades drop towards the footwall where the porosity is plugged with dolomite and rock flour.

7. Drilling of the breccia pipe by Noranda (1989, 1990) intersected 22.9 m. assaying 2.75% copper in hole 89-1 but Noranda concluded that the breccia body is cut out at 70 to 80 metres depth by an intrusion of white massive quartz biotite-feldspar-porphyry, and allowed their option to expire.
8. Subsequent drilling of the breccia pipe by David Chapman (1991) indicated that the area of mineralized breccia may extend to greater depth than that indicated by the Noranda drilling. Of the 7 holes drilled by Chapman only one (91-2) has been assayed (by Kennecott Canada 12 Oct. 91 - See Appendix A). This showed good grade copper mineralization to the bottom of the hole (103.32 m., 339 ft.) and included a 50 m. section which assayed 2.30% Cu (Ogryzlo 1993). In addition several 10 ft. sections contained appreciable amounts of gold in the 0.01 to 0.05 oz/ton range, with one section (160-170 ft.) assaying 0.46 oz/ton gold.
9. The writer's February 1993 report concluded that although the Copper Molybdenum stockwork porphyry deposit is too low in copper and gold grades to be mineable economically, the breccia pipe carries economic grades in both metals. It has been well delineated in lateral extent by drilling but may extend to greater depth than indicated by Noranda's drill programmes in 1989 and 1990.
10. In porphyry systems, breccia pipes rarely occur in isolation. Ogryzlo (1993) pointed out similarities between the breccia body and those occurring at the Cananea deposit Mexico, where several breccia bodies occur along an arcuate structure. The potential for occurrence of other

breccia bodies at Hearne Hill is thus considered very high. The geophysical and geochemical surveys on the property were at wide spacing (800 ft. line spacing with some infill at 400 ft.) but despite this wide spaced coverage they showed several untested geochemical and IP (Chargeability) targets which could represent breccia bodies.

11. In order to explore for other breccia pipes, in summer/fall 1993 Booker Gold carried out the following exploration programmes:

- a) Trenching

A John Deere 892 Backhoe excavated 14 trenches in the vicinity of the mineralized breccia and to the north and east. Mineralization exposed by the trenching programme consists of fracture filling and disseminated copper mineralization in altered Feldspar Porphyry (Babine Igneous Suite) and altered Hazelton andesite volcanic country rocks. Although no mineralized breccia similar to that occurring in the main breccia body was discovered in bedrock, several boulders containing chalcopyrite, pyrite, were discovered in overburden consisting of rock slide material in trenches TR93-4 and Tr93-5 up slope, i.e. approx. 100 to 200 ft. elevation above the main breccia body.

Samples from the mineralized boulders assayed as high as 20.603% copper, .146 oz/ton gold and 1.75 oz/ton silver. Because the boulders are situated above the main breccia zone in rock slide debris which overlies glacial till, they are not considered to be derived from the known breccia body but are probably from an as yet undiscovered mineralized breccia situated to the northeast of the trenched area.

- b) Percussion drilling

Programmes of percussion drilling were done in May/June, 27 July - 7 August and late October. Twenty-one holes totalling 3010 ft. (917.4 M) explored the mineralized breccia and surrounding area. Samples of cuttings were

taken for each 10 ft. (3.04m) run and assayed for copper and gold. Hole PH 20 drilled on the main breccia body intersected 230 ft. (70.1m) which assayed 2.118% copper, and 0.014 oz/ton gold.

c) Magnetometer Survey:

A Scintrex MP 1 Proton Precision Magnetometer Survey was initiated and due to very minor diurnal variations the unaltered data was compiled. The survey was run 27 September - 5 October and 1-3 November was run over the main breccia body and the area north and east. The readings were taken at 10 ft. (3.13m) intervals. The contoured magnetometer map shows a pronounced mag low associated with the breccia pipe. It also indicates a mag low 600-700 ft. (183-213m) east of the breccia pipe of similar dimensions and intensity which may represent another breccia pipe.

12. In the 20 February 1993 report Phase 1 and 2 exploration programmes recommended geological mapping, 2000 ft. (609m) percussion drilling and geochemical soil sampling (1000 samples).

Booker Gold did the geological mapping and over 3000 ft. (937.5m) of percussion drilling. Based on field observations and results, it was decided by Booker Gold personnel and the writer that trenching programmes and a magnetometer survey would be more successful than further geochemical soil sampling. The programmes done in 1993 by Booker Gold although somewhat altered from the original proposed Phase 1 and 2 considerably exceed the original expenditures proposed and the writer thus considers that Phases 1 and 2 have been successfully completed.

RECOMMENDATIONS AND COST ESTIMATES

1. Extensions of the magnetometer survey to the north and east is recommended because:
  - a) the mag low located by the 1993 survey needs defining and closing off. Since it is due east of the known breccia, an east-west structure may be present.
  - b) the known breccia body is elongated 010 to 020, i.e. it may be on a fracture zone which strikes in that direction.
  - c) the area northeast of the main breccia is up slope and is covered by rock slide debris.
  - d) the geochemical and geophysical compilation map (Figure 7) shows strong copper values in soils and high chargeability I.P. open to the northeast of the main breccia.
  
2. Trenching of targets located by the magnetometer survey followed by diamond drilling is recommended. Cost estimates are as follows:

	<u>\$</u>
Magnetometer Survey: Rechain north south lines and cut new lines where required. Flag additional east west lines: 20 days at \$500/day (includes report preparation)	10,000
Interpretation, selection of targets, supervision, etc.	5,000
Trenching: 10 days at \$1000/day backhoe rental	10,000
Mapping, sampling, analyses, travel, etc.	10,000
1000 m. (3000 ft.) NQ diamond drilling at \$20/ft.	60,000
Report preparation, supervision, etc.	<u>5,000</u>
	<u>\$100,000</u>

1. INTRODUCTION

"Report on Geology, Exploration Results and Potential of the Hearne Hill Property" (Sampson 20 Feb. 1993) concluded that previous exploration programmes on Booker Gold's Hearne Hill property had located a porphyry-molybdenum deposit which is of sub-economic grade, but which contains a breccia body carrying economic copper and gold grades. Programmes of exploration were proposed in order to explore the property for other breccia bodies.

During the summer and fall of 1993, Booker Gold personnel carried out programmes of geological mapping, trenching, percussion drilling and magnetometer geophysics in order to explore the known breccia zone and try to locate other mineralized breccias. The writer accompanied Hugh Grenfæl, president of Booker Gold, on two visits to the property, and examined the trenching, results of percussion drilling, and mapped the geology of the area surrounding the known breccia zone. This report is thus based on field examinations, supervision of work programmes carried out in 1993, and examination of assay results produced by the trenching, percussion drilling programmes and results of the magnetometer geophysical survey.

2. PROPERTY, LOCATION, ACCESS, CLIMATE

The Hearne Hill Property (also known in old reports as Kofit) is situated as follows:

Latitude	Longitude	Average Elevation	NTS
55°11'N	126°16'W	3600 ft. (1100 m.)	93-M-1W



The property consists of two metric unit claims, and 17 two post claims:

Name of Claim	Units	Record Number	Expiry Date
Hearne 1	15	12662 (242812)	7 Oct. 1999
Hearne 2	15	12663 (242813)	7 Oct. 1999
PB1	1	321701	20 Oct. 1994
PB2	1	321701	20 Oct. 1994
PB3	1	321703	20 Oct. 1994
BG1	1	317528	16 May 1994
2	1	317529	16 May 1994
3	1	317530	16 May 1994
4	1	317531	16 May 1994
5	1	317532	16 May 1994
6	1	317533	16 May 1994
7	1	317534	16 May 1994
8	1	317535	16 May 1994
HG1	1	319913	11 Aug. 1994
2	1	319914	11 Aug. 1994
3	1	319915	11 Aug. 1994
4	1	319916	11 Aug. 1994
5	1	319917	11 Aug. 1994
6	1	319918	11 Aug. 1994

The property is situated on the western slopes of Hearne Hill, approximately 65 kms. northeast of Smithers in central British Columbia.

It is accessible by road from the former producing Bell Mine site. The Northwood pulp and timber logging road on the eastern side of Babine Lake provides year-round access to within 4 kilometres of the property. A four-wheel drive exploration road intersects the Northwood road at kilometre 40, 21 kilometres north of the Bell Mine site. This intersection is approximately one kilometre east of the Morrison bridge. Access is then gained by 4-wheel drive vehicle for an additional distance of 4 kilometres north to the 3600 ft. elevation on the Hearne Hill property.

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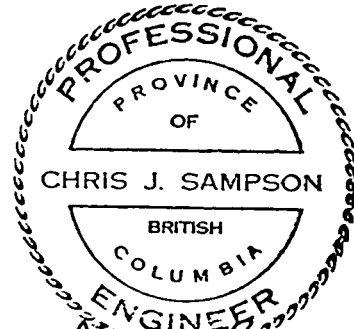
HEARNE HILL PROPERTY  
OMINECA MINING DIVISION, B.C.

NTS: 93 M/1

# LOCATION MAP

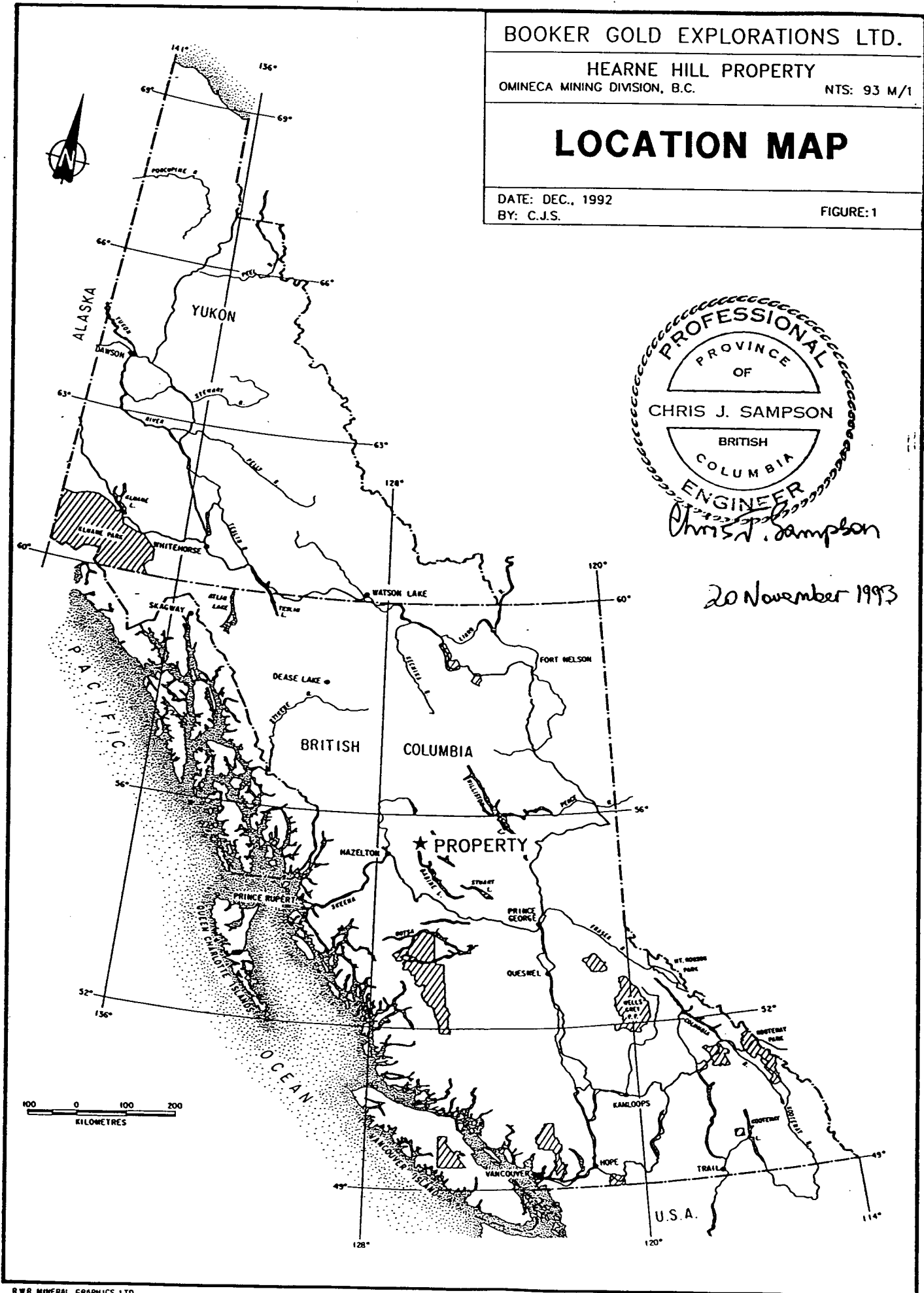
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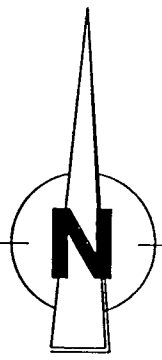
FIGURE: 1



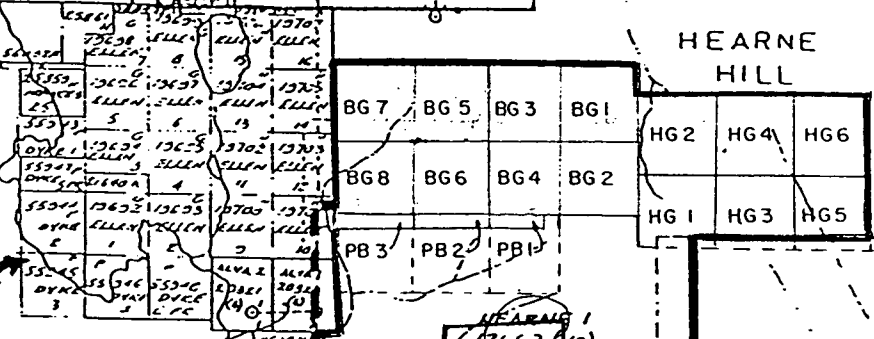
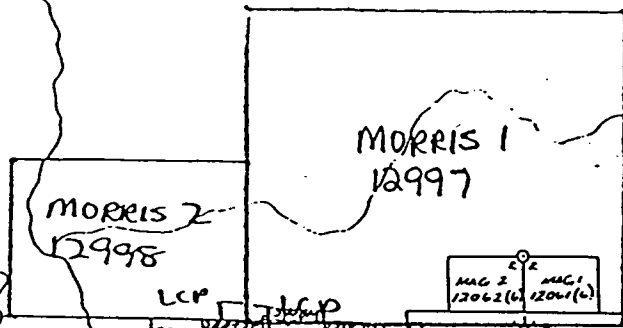
*Chris J. Sampson*

20 November 1993

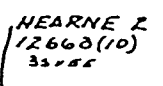
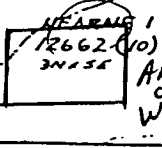




NORANDA MINERALS  
MORRISON PROPERTY

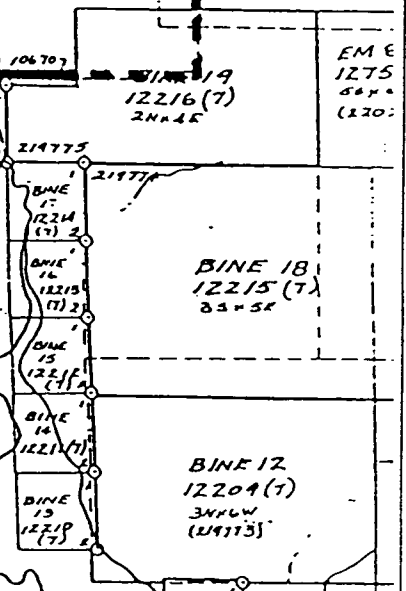
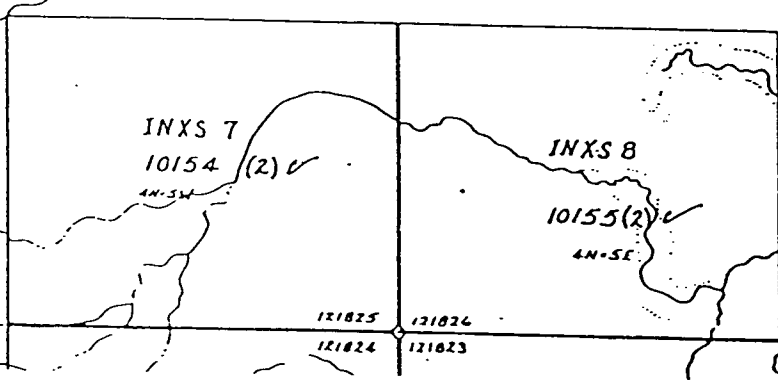


HEARNE HILL



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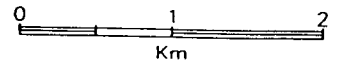
AREA OF WORK



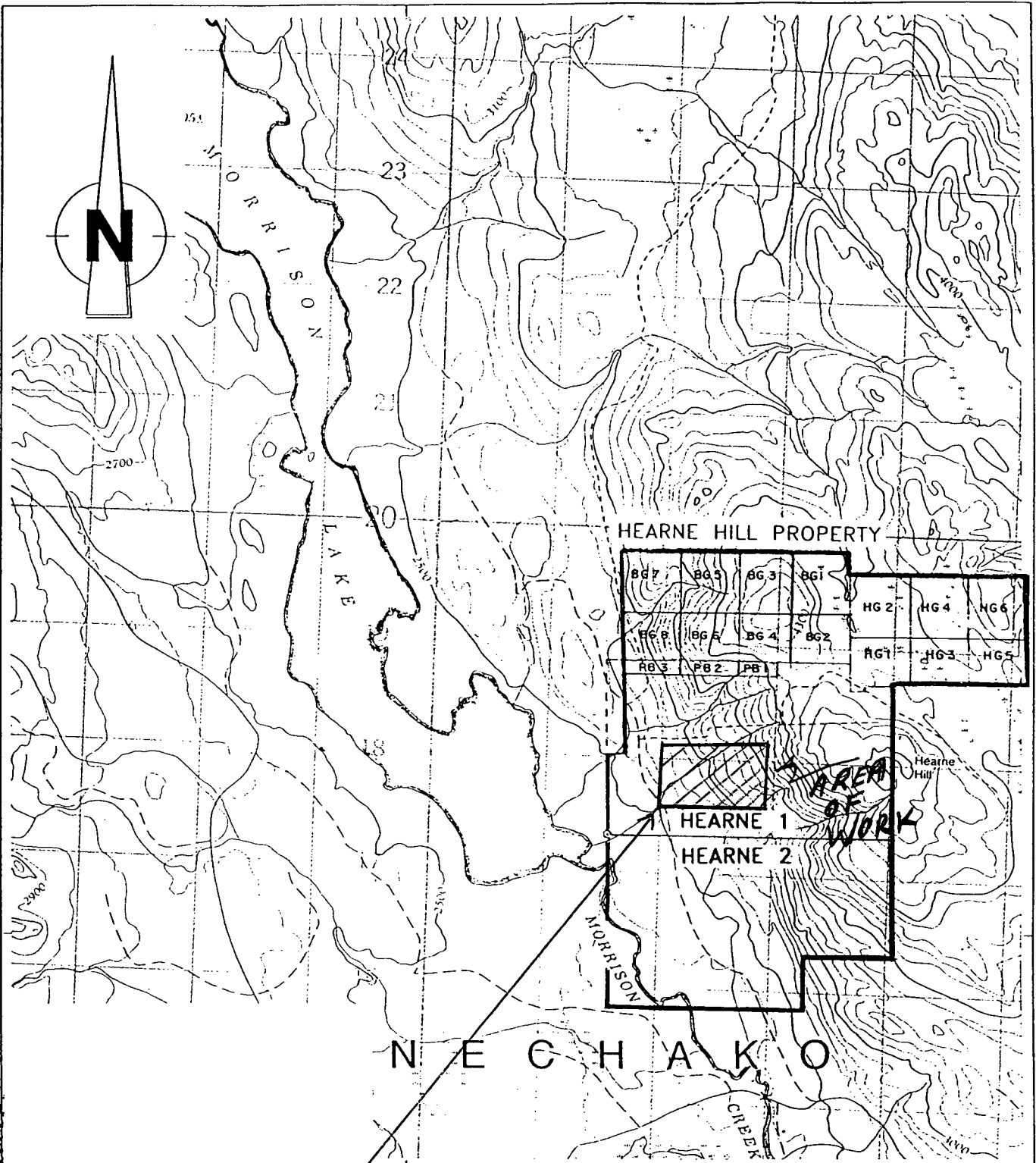
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HEARNE HILL PROPERTY  
OMINECA MINING DIVISION, B.C. NTS: 93 M/1

# CLAIM MAP



DATE: DEC., 1992 Rev. NOV., 1993  
BY: C.J.S. SCALE: 1:50,000 FIGURE: 2



BOOKER GOLD EXPLORATIONS LTD.

HEARNE HILL PROPERTY  
 OMINECA MINING DIVISION, B.C. NTS: 93 M/1

TOPOGRAPHY MAP

DATE: DEC., 1992 Rev. NOV., 1993  
 BY: C.J.S. SCALE: 1:50,000 FIGURE: 3

The Bell Mine property is accessible from Smithers, B.C. by 150 kilometres of paved road (via Houston) to the village of Granisle. Access is then a further 14 kilometres by gravel road to the Noranda Minerals ferry slip on the western shore of Babine Lake. Year-round access to the Bell Mine site is by a further 3.5 kilometres ferry crossing of Babine Lake.

An alternate access route is from Smithers to Topley Landing, then by Northwood barge across Babine Lake and via the Nose Bay, Hagan, Jinx and Nak roads to the Hearne Hill road.

The property varies in elevation from a low of 734 m. (2405 ft.) on Morrison Creek on the west side to a high point of 1350 m. (4430 ft.) on Hearne Hill on the east side of the property. Hearne Hill forms part of ridge trending northwest/southeast caused by the block faulting in the area. The western slope of the ridge which forms much of the Hearne Hill property is quite steep and drained by several small creeks which drain westward into Morrison Lake.

### 3. EXPLORATION HISTORY

The Babine Lake area has been actively explored since the 1920s. In the 1950s and 1960s, British Columbia experienced an exploration boom for porphyry-copper deposits. The Babine Lake area was intensely explored by programmes of prospecting, geophysics and geochemistry, which resulted in the discovery of many porphyry-copper deposits, two of which - Granisle and Bell - were subsequently placed in production. The Granisle Mine, which was discovered by Granby (later Zapata-Granby, and eventually sold to Noranda as part of Bell Copper Division) started production in 1955 at 5000 TPD, subsequently increased to 14,000 TPD. The mine closed in 1982. The Bell Mine of Noranda Minerals was commissioned in 1972 at 10,000 TPD, which was subsequently increased to 17,000 TPD by 1980. It was closed in 1992 and is currently kept on a care and maintenance basis.

Reserves at start up at Granisle were 94 m. tons 0.43% Cu, 0.004 oz/ton Au at Bell 128 m. 0.48% Cu, 0.010 oz/t Au (Sinclair, Carter, Dawson - A preliminary analysis of gold and silver grades of porphyry type deposits in Western Canada. Assoc. of Exploration Geochemists 1982).

The presence of copper mineralization at the Hearne Hill property has been known for many years. In 1967, Trojan Consolidated Mines and Buttle Lake Mining did magnetometer and soil sampling surveys over the property (Dirom 1967). This was followed up by bulldozer trenching which discovered the breccia boulders (identified as "discovery showings" on maps of the property - Trench T93-3).

The property was optioned by Texas Gulf Sulphur Company who did programmes of IP, magnetometer and diamond drilling (12 holes totalling approx. 6,000 ft. (1942 m.) in 1968. The drill programme indicated presence of a Babine style porphyry-copper deposit on the Hearne Hill property, similar to the Bell, Morrison, and Granisle deposits. Texas Gulf calculated the overall grade of the porphyry deposit at 0.2% copper, but drilling apparently failed to intersect the mineralized breccia, although according to Ogryzlo (1990) the lower portion of HH1-1967 apparently intersected the dolomite cemented footwall portion of the breccia pipe. Texas Gulf Sulphur considered that the copper grade was not sufficiently high to support exploitation of the deposit.

In 1968 the property was optioned by Canadian Superior Exploration, who did geological mapping, induced polarization, magnetometer and geochemical sampling surveys, followed by some preliminary diamond drilling (Kahlert and Fawley 1968). Canadian Superior followed this with a programme of percussion drilling in 1969 (Kahlert 1969).

The property then lay dormant for many years until it was acquired by Dave Chapman in 1989. He carried out a limited programme of trenching on the old showings with a skidder mounted backhoe and rekindled interest in the property.

In July 1989 Noranda Minerals and Bell Mine (a Noranda Mines subsidiary) optioned the property. They re-established the original Texas Gulf line grid and carried out a programme of geochemical soil sampling to relocate the original anomaly, which is essentially in place over the mineralization. This was followed by a programme of diamond drilling consisting of 6 holes totalling 1537 ft. (468 m.) fall 1989 in order to establish whether the mineralization in the breccia pipe exposed at surface had any vertical continuity and secondly to establish the attitude of the mineralization.

As reported by Ogryzlo (January 1991) 4 holes intersected the mineralization. Hole H89-1 was lost in mineralization at 270 ft. (82 m.) when the rods stuck in a mud seam. The last core run was recovered including the mud seam which assayed 3.32% copper. Significant intersections from the 1989 drilling programme are summarized as follows:

SUMMARY OF RESULTS - 1989 PROGRAMME

HOLE NUMBER	FROM feet(meters)	TO feet(meters)	WIDTH feet(meters)	% Cu
H89-1	190.0(57.9)	227.5(69.3)	37.5(11.4)	1.34
	227.5(69.3)	270.0(82.3)	42.5(12.9)	3.61
H89-2	45.0(13.7)	65.0(19.8)	20.0(6.1)	1.84
	65.0(19.8)	85.0(25.9)	20.0(6.1)	2.68
	85.0(25.9)	130.0(39.6)	45.0(13.7)	1.10
H89-3	60.0(18.3)	77.5(23.6)	17.5(5.1)	2.11
H89-4	97.5(29.7)	160.0(48.8)	62.5(19.1)	0.78

The drilling established that the overall trend of the breccia deposit is N10E. The hanging wall of the breccia pipe dips approximately 70°E, the footwall dips at approximately 80°E.

In 1990 Noranda drilled a further 5 NQ size holes, totalling 2,807 ft. (856 m.) in order to test the vertical extent of the mineralized breccia.

As reported by Ogryzlo (January 1991) hole H90-3 was the only hole to intersect the full width of the breccia. Mineralization was intersected over a width of 80 ft. (24.4 m.) with an average grade of 0.67% Cu, 0.05% Mo and 0.005 oz/ton Au. Holes H90-1 and H90-5 also intersected sections of the mineralized breccia. Much of the target area, however, was largely occupied by post-mineral intrusions of biotite-feldspar-porphyry including a massive unit of bleached white BFP, similar to the post-mineral QFP body that has replaced approximately 1/3 of the Bell ore body. Holes H90-2 and H90-4 also intersected post-mineral intrusions. Significant intersections from the 1990 drill programme are summarized as follows:

SUMMARY OF RESULTS - 1990 PROGRAM

HOLE NUMBER	FROM feet(meters)	TO feet(meters)	WIDTH feet(meters)	% Cu
H90-1	340.0(103.6)	400.0(121.9)	60.0(18.3)	0.39
(includes)	372.5(113.5)	395.0(120.4)	17.5(5.3)	0.59
H98-2	380.0(115.8)	691.0(210.6)	311.0(94.7)	0.18
H90-3	80.0(24.4)	390.0(118.9)	310.0(94.5)	0.31
(includes)	305.0(93.0)	385.0(117.3)	80.0(24.4)	0.67
H90-4	110.0(33.5)	465.0(141.7)	355.0(108.2)	0.22
H90-5	Weakly mineralized over		557.0(169.8)	0.11
(includes)	minor breccia		5.0(1.5)	0.56

Noranda concluded that the breccia pipe is of limited size, both in a horizontal and vertical direction and the mineralization has been partially replaced by unmineralized BPF intrusives. Their option expired 1 January 1991.

David Chapman in 1991 drilled 7 diamond holes totalling approximately 550 metres in the breccia zone, of which hole 91-2 intersected 50.0 metres assaying 2.3% Cu. This included one 10 foot section which assayed 0.401 oz/ton gold.

#### 4. REGIONAL GEOLOGY

The Hearne Hill area is situated on the northern edge of the Skeena Arch in a region which is underlain by volcanic and epiclastic rocks ranging in age from lower Jurassic (Telkwa) formation to lower Cretaceous (Skeena) group. This sequence of rocks has been cut by a generally northwest trending series of faults that have created a long linear sequence of horsts and grabens, and the rocks have been intruded by a variety of intermediate to felsic stocks, plugs and dikes of Eocene age (Richards 1990). The geological setting has been described by Tipper and Richards (1976).



The Tertiary, Eocene - 50 m.a., Biotite-Feldspar-Porphyry plugs and stocks of the Babine igneous suite were emplaced along major faults in a continental magmatic arc. Two ore bodies (Bell and Granisle) and numerous sub-economic deposits (Morrison and Hearne among others) occur as porphyry-copper deposits which are temporally and spatially associated with the Babine igneous suite intrusions (Carson and Jambour 1973). The Babine igneous suite is a high potassium, calcalkaline suite which show some trace elements normally associated with alkaline porphyry coppers rather than calcalkaline.

## 5. PROPERTY GEOLOGY, MINERALIZATION AND ALTERATION

The following description of geological setting, mineralization and alteration is based on Ogryzlo 1991 as follows:

### 5.1 Geological Setting:

Hearne Hill is underlain by volcanic rocks of the lower to middle Jurassic Hazelton Group (Richards, 1973). The volcanic rocks on the property have been tentatively associated with the submarine Kotsine facies of the Sinemurian Telkwa formation (Tipper and Richards, 1976). The volcanic rocks are characterized by waterlain grey lapilli-crystal tuffs and grey andesite. Associated sedimentary rocks are gritty greywackes, green siltstones and buff felsic tuff.

These rocks have been intruded by prophyritic intrusions of the 50 my Eocene Babine igneous suite. Mapping by Booker Gold shows that the Eocene biotite-feldspar prophyry (BFP) intrusives are in the form of a series of northeasterly trending dykes. The intrusives are compositionally equivalent to a diorite or a quartz diorite. The BFP that is exposed on the 300N baseline near 300E is a dark, hard, biotitized BFP similar to rocks observed in the Morrison Lake deposit. There is no well defined intrusive center of the BFP similar to the centers noted at the Bell Mine (Carson et al 1976) and at the Morrison deposit (Carson and Jambour, 1976). Porphyry copper related mineralization consists of chalcocite, and minor bornite filling fractures, minor disseminations of chalcopyrite, and traces of molybdenite. The style of mineralization suggests a relatively deep setting for the environment of emplacement.

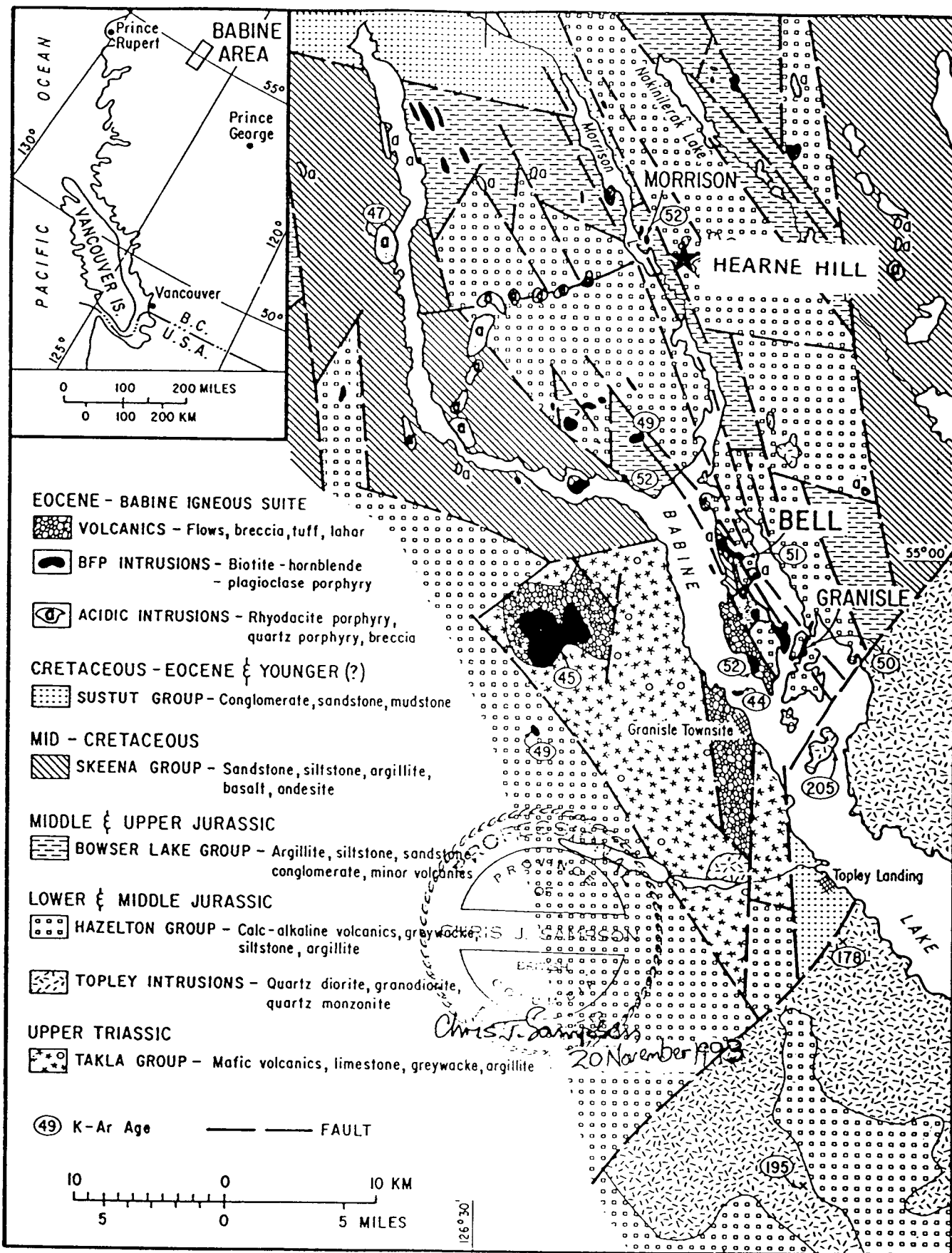
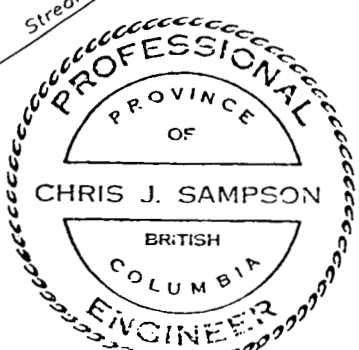
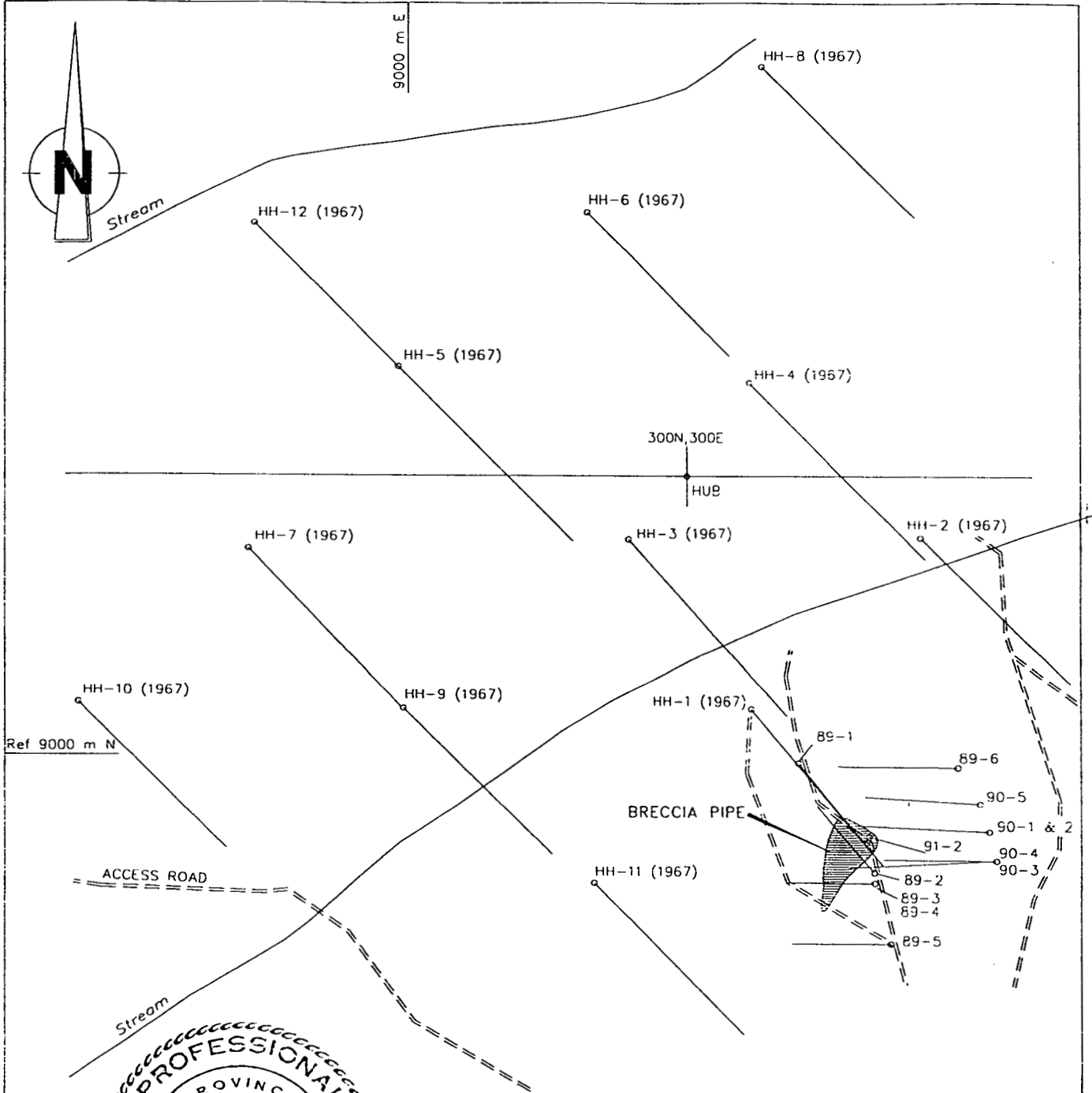
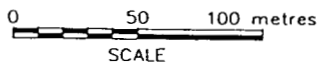


FIGURE 4 - Geology of the Northern Babine Lake Area and Location of the Hearne Hill, Morrison, Granisle and Bell Copper Porphyry Deposits, K-Ar age determinations are after Carter (1974) and the Geological Survey of Canada. (From: CIM Special Volume No.15)



*Chris J. Sampson*  
 20 November 1993



NOTE: "AFTER OGRYZLO 1993"

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HEARNE HILL PROPERTY	
OMINECA MINING DIVISION, B.C.	NTS: 93 M/1
<b>DIAMOND DRILL PLAN</b>	
DATE: DEC. 12, 92	SCALE: As Shown
BY: C.J.S.	FIGURE: 5

A distinctive phase of the BFP intrusions appears to be either very late or post mineral in age. The rock is a massive white BFP with intense sericite-pyrite alteration. Plagioclase is soft, white, and completely altered to sericite. Biotite is bleached pale brown to white and is sericitized as well. The massive unbroken structures suggest that the rock was emplaced after the structural events that are evident in most of the other units observed. The rock is similar in appearance to the QBFP (QFP) post mineral phase that occupies the southeastern portion of the Bell orebody, but lacks the quartz phenocrysts.

Ogryzlo concluded that the intrusions on Hearne Hill are multiphase, with more than one intermineral or post mineral intrusion of BFP.

## 5.2 Mineralization

Two styles of mineralization are present: These are:

### 1. Porphyry Copper Mineralization

Chalcopyrite, bornite and molybdenite occur as fracture fillings and disseminations in the biotite feldspar porphyry and the adjacent volcanics. This mineralization is due to a large but weakly developed porphyry copper system of the Cu-Mo type.

During the 1990 program, it became evident that many of the biotite feldspar porphyry units observed in the drill core were intermineral or post mineral in age. The erratic nature of the copper distribution is caused by these late stage intrusions. The volcanic rocks in contact with late stage BFP are invariably higher in grade. The volcanics (Hazelton, i.e. Jurassic) were deposited long before any mineralizing event, and have been subjected to all stages of mineralization. When the distribution of copper in the volcanics alone is examined, it appears that grades are increasing to the south and west of the breccia pipe.

Ogryzlo concluded that mineralization trends in the volcanics deserve far more study. Grades are within the range of grades occurring in volcanics adjacent to the Bell and Granisle deposits, namely from 0.15% to 0.40% Cu. Although the

distribution of mineralization is greatly complicated by the post-mineral intrusions, there is still potential for the development of a porphyry copper deposit. Pursuit of grade trends in the volcanics could indicate a center of mineralization.

## 2. Breccia Mineralization

Chalcopyrite occurs filling open spaces between rock fragments in a clast supported breccia. Open space in the breccia prior to mineralization comprised 5% to 20% of the volume of the rock. Interclast porosity remains at 2% to 8% of the volume of the rock. Pyrite also occurs as breccia cement, but is subordinate to chalcopyrite. Pyrite disappears as breccia cement at depth, with chalcopyrite along with lesser chalcocite being the only sulphide species present.

The largest observed cavity filled with chalcopyrite is in the order of two feet (50 centimeters) and grades 16% Cu. Copper grades are highest adjacent to the hangingwall, which may have acted as a trap for the mineralization. Grades drop dramatically towards the footwall, where the porosity is plugged with dolomite and rock flour.

There appears to have been little movement or milling of the clasts. The breccia fragments appear to have simply accumulated as a subterranean talus that caved from the roof in a large cavern or steeply dipping pipe. The mode of formation of the pipe is uncertain. It is possible that the void resulted from solution of the rock by circulating corrosive fluids related to the porphyry copper mineralization seen elsewhere on Hearne Hill.

Supergene processes have redistributed the copper grades. The oxidized breccias in the surface trenches reveal limonite cement replacing sulphide open space filling. Malachite and azurite may also be seen as breccia cement. Chalcocite may be seen as rims of chalcopyrite in most breccia cavities, and rarely may be seen almost completely replacing masses of pyrite. Total sulphide content in the breccia is 10% to 15%, of which up to 1% may be comprised of chalcocite.

Ogryzlo concluded that "the mineralization has been derived by solution and redistribution of the porphyry copper mineralization found in the carbonate cemented clasts that collected against the footwall. Although these clasts are lithologically identical to the wallrocks, copper grades in the footwall breccia are in the order of 0.01% Cu to 0.3% Cu as compared to 0.10% Cu to 0.20% in the adjacent rocks from which they were apparently derived. The carbonate open space filling appears to post date the sulphide open space filling.

The breccia clasts may be lithologically identical to the enclosing wallrocks, making the breccia virtually monolithologic. Heterolithic breccia were observed in holes H90-3 and H90-1. Sericitized and bleached biotite feldspar porphyry clasts with grey andesite and tuffaceous felsic clasts form the bulk of the pipe. The only control on the location of the pipe appears to be the contact between the biotite feldspar porphyry and the volcanics. The greater proportions of volcanic clasts occur closer to the contact. Many clasts reveal pre-breccia mineralization consisting of sulphide and quartz sulphide veinlets. (It should be noted that the volcanics have been mapped as "hybrid diorite" in earlier assessment reports.)

Ogryzlo (1993) subsequently estimated the breccia body to contain a drill indicated resource (i.e. geologic reserve) of 143,000 tonnes grading 0.74% copper and 0.9 g/tonne gold.

## 6. 1993 EXPLORATION PROGRAMMES

During summer and fall 1993, Booker Gold carried out programmes of percussion drilling, trenching, magnetometer geophysics and geological mapping. These programmes are described as follows:

### 6.1 Trenching

From 14-22 July and 20-24 September 1993, Booker Gold used a John Deere 892 backhoe operated by Ira Bowd and owned by Ernie and Kevin Dubrak to excavate 14 trenches in the vicinity of the mineralized breccia body. The trenches were mapped and sampled in detail by Mr. J. Cam Steven and the writer. Location, geology and sampling results of the trenching programmes are shown in Figure 9.

The trenching programme extended the area of the known breccia pipe to NE and SW and confirmed the geology of the area to the east and north of the originally located area of showings.

The programme located a shear/breccia zone in trenches 93-4, 93-5, 93-9, 93-6, and 93-8. This strong shear/breccia zone, 30-50 feet wide which strikes approximately N30E, contains only low copper and gold values. Breccia fragments consist principally of altered andesite derived from the country rock. It is a different type of breccia from that seen in the main zone, and is probably of tectonic origin.

All mineralization exposed by the trenching programme in bedrock consists of fracture filling and disseminated copper mineralization in altered Biotite Feldspar Porphyry and andesite country rock. Apart from the breccia body described in the previous paragraph, no breccias resembling the main mineralized breccia were discovered in bedrock.

In trenches 4 and 5, however, boulders of mineralized breccia up to 1.5 m. size were encountered in overburden. This breccia very strongly resembles that occurring in the main breccia zone, namely it consists of fragments of altered biotite feldspar porphyry or andesitic material in a fine grained silicified and

altered matrix which contains chalcopryrite, chalcocite and pyrite. Samples from this breccia float assayed as high as 20.603% copper, 0.146 oz/ton gold and 1.75 oz/ton silver. The trenches are situated up slope from the main breccia body, i.e. the breccia boulders are some 100-200 ft. (31.2-62.5 m) higher in elevation than the top of the main breccia zone. The entire area explored by trenches 93-14, 4, 13, 5, 5A, 6, 9 and 10 plus the areas to the north and east are covered by extensive rock slides which apparently have travelled down the mountain side from the east and northeast. It was concluded from the field evidence that the mineralized breccia boulders seen in overburden at TR 93-4 & TR 93-5 are not derived from the main breccia zone because they are situated well above it. They probably originated from another mineralized breccia body which lies to the north-northeast or east of the known breccia zone.

TRENCH	LENGTH SAMPLED		DISTANCE		COPPER	GOLD	SILVER
	FT.	M.	FT.	M.	%	OZ/TON	OZ/TON
93-2	80-165	25-51.5	85	26.5	2.3	0.012	0.19
93-3	0-41	0-12.8	41	12.8	.21	0.002	0.01
	110-180	34.3-60	70	21.8	.911	0.005	0.15
93-4	280-340	87.5-106.2	60	18.75	.166	0.004	0.01
	Grab samples from				20.603	.146	1.75
	mineralized breccia				.812	.001	.04
	boulders				.582	.002	.06
					.075	.001	.01
93-5	150-190	46.8-59.3	40	12.5	.221	.004	.01
93-7	0-20	0-6.25	20	6.25	.267	.003	
93-14	60-70	20-21.8	10	3.13	1.28	.11	NOT ASSAYED
	70-80	21.8-25	10	3.13	2.706	.041	" "
	80-90	25-28.13	10	3.13	.533	.010	" "
	<u>90-100</u>	28.13-31.2	10	3.13	.307	.004	" "
TOTAL	60-110	20-34.3	40	12.5	1.206	.016	



## 6.2 Percussion Drilling

Percussion drilling was done on the property in late May - early June, 27 July - 7 August and in late October. 21 holes, totalling 3010 feet (917m), were drilled. Locations are shown on Figure 8. Cuttings were sampled from each 10 ft.

DRILL HOLE	INTERVAL		LENGTH		COPPER PPM (%)	GOLD PPB (OZ/TON)
	FT	M	FT	M		
PH 1	40-100	12-30	60	18	89	11
PH 2	30-90	9-27	60	18	92	8
PH 3	10-100	3-30	90	27.4	134	19
PH 4	10-160	3-48.7	150	45.7	186	37
PH 5	30-110	9-33.5	80	24.3	1642	91
PH 6	20-150	6-45.7	130	39.6	337	8
PH 7	20-110	6-33.5	90	27.4	554	17
PH 8	20-150	6-45.7	130	39.6	243	7
PH 9	20-50	6-15	30	9	130	7
PH 10	20-160	6-48.7	140	42.6	404	11
PH 11	20-100	6-30	80	24.3	1195	36
PH 12	10-40	3-12	30	9	977	20
PH 13	30-200	9-60.9	170	51.8	(0.214)	
PH 14	20-200	6-60.9	180	54.8	(0.164)	
PH 15	20-120	6-36.5	100	30	(0.083)	
PH 16	20-150	6-45.7	130	39.6	(0.074)	
PH 17	20-210	6-64	190	57.9	(0.154)	54
PH 18	20-200	6-60.9	180	54.8	(0.115)	34
PH 19	20-210	6-64	190	57.8	(0.028)	
PH 20	20-250	6-76.2	230	70.1	(2.118)	(0.014)
PH 21	<u>10-150</u>	<u>3-45.7</u>	140	42.6	(.546)	(.008)
	3010 ft. 940.6 M					

The percussion drilling programme generally confirmed the known distribution of copper mineralization with the exception of PH 5 which intersected 80 feet (24m) of mineralized altered volcanic assaying 1642 ppm copper and 91 ppb gold in an area well to the south of the previously assumed limit of porphyry-copper mineralization. In addition, hole PH 20 drilled on the downdip extension of the main breccia zone intersected significant copper and gold mineralization, as follows:

FOOTAGE FT.	M	% COPPER	FIRE GOLD oz/ton	METALLIC AVG. GOLD oz/ton
20-30	6-9	2.058	.026	.050
30-40	9-12	4.535	.029	.043
40-50	12-15.2	2.064	.019	.024
50-60	15.2-18.2	2.234	.019	.024
60-70	18.2-21.3	1.966	.036	.015
70-80	21.3-24.3	2.121	.015	.016
80-90	24.3-27.4	2.836	.014	.016
90-100	27.4-30.4	2.005	.016	.023
100-110	30.4-33.5	2.442	.009	.021
110-120	33.5-36.5	2.468	.019	.012
120-130	36.5-39.6	2.495	.017	.017
130-140	39.6-42.6	1.857	.023	.019
140-150	42.6-45.7	1.549	.006	
150-160	45.7-48.7	1.472	.005	
160-170	48.7-51.8	1.303	.004	
170-180	51.8-54.8	1.216	.009	.009
180-190	54.8-57.9	1.194	.005	
190-200	57.9-60.9	.951	.006	
200-210	60.9-64	1.193	.004	
210-220	64-67	2.206	.008	.008
220-230	67-70.1	2.016	.012	.010
230-240	70.1-73.1	3.058	.014	.015
240-250	73.1-76.2	2.503	.011	.012
END OF HOLE				

### 6.3 Magnetometer Survey

During 27 September - 5 October and 1-3 November, a magnetometer survey using a Scintrex MP 2 proton procession magnetometer was run between 289N to 297N across the main breccia body and in the area to the north and east (Figure 10). Readings were taken at 10 foot (3m) intervals along the 50 foot (15.24m) spaced east west lines, i.e. a total coverage of 13,200 lineal feet (4023m). The contoured magnetometer map (Figure 10) shows a well defined magnetometer low, associated with the main breccia body. It also indicates presence of another similar magnetic low feature situated on the extreme eastern side of the magnetometer grid, 600-700 feet (182-213m) east of the main breccia body. This magnetometer feature will be investigated by the exploration programme proposed in this report.

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7. CERTIFICATE

I, J. Paul Stevenson, having an office at the 10th Floor, 609 West Hastings Street, Vancouver, B.C., V6B 4W4, hereby certify that:

1. I am a prospector and have practiced my vocation in Western North America continuously since 1965.
2. The work described herein was performed under my supervision and was directed by a professional engineer.

Vancouver, B.C.  
July 05, 1994



J. Paul Stevenson  
Prospector



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Assay Certificate

1S-0910-RA1

Company: **KENNECOTT CANADA INC.**  
Project: 02-397  
Attn: S.BISHOP/J.MARR/H.SMIT

Date: **OCT-12-91**

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3. KENNECOTT CANADA, C/O MIN-EN LABS.

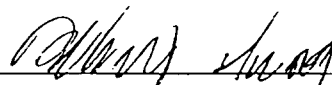
We hereby certify the following Assay of 30 CORE samples submitted OCT-04-91 by HANS SMIT.

Sample Number	*AU-FIRE g/tonne	*AU-FIRE oz/ton	CU %	SAMPLE INTERVAL (feet)
HH 201	.41	.012	3.254	15- 20
HH 202	.06	.002	1.238	20- 30
HH 203	.04	.001	.904	30- 40
HH 204	.68	.020	1.668	40- 50
HH 205	.01	.001	.788	50- 60
HH 206	.64	.019	3.403	60- 70
HH 207	.65	.019	2.873	70- 80
HH 208	**1.88	.055	4.080	80- 90
HH 209	**1.71	.050	3.633	90-100
HH 210	** .74	.022	2.981	100-110
HH 211	**1.57	.046	3.803	110-120
HH 212	.64	.019	3.010	120-130
HH 213	.66	.019	3.795	130-140
HH 214	.20	.006	3.221	140-150
HH 215	.51	.015	3.745	150-160
HH 216	**13.75	.401	1.327	160-170
HH 217	** .68	.020	1.933	170-180
HH 218	** .38	.011	.969	180-190
HH 219	.13	.004	.493	190-200
HH 220	.18	.005	.630	200-210
HH 221	** .42	.012	.612	210-220
HH 222	**1.30	.038	1.709	220-230
HH 223	.32	.009	.639	230-240
HH 224	.26	.008	.707	240-250
HH 225	.07	.002	.462	250-260
HH 226	.15	.004	.371	260-270
HH 227	.19	.006	.515	270-280
HH 228	.21	.006	.695	280-290
HH 229	.17	.005	.303	290-300
HH 230	.08	.002	.467	300-310

\*AU = 1 ASSAY TON.

\*\*SAMPLE MAY CONTAIN METALLIC GOLD.

Certified by



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*Assay Certificate*

**1S-0910-RA2**

Company: **KENNECOTT CANADA INC.**  
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Attn: **S.BISHOP/J.MARR/H.SMIT**

Date: **OCT-12-91**

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2. KENNECOTT CANADA, TELKWA, B.C.  
3. KENNECOTT CANADA, C/O MIN-EN LABS.

We hereby certify the following Assay of 5 CORE samples submitted OCT-04-91 by HANS SMIT.

Sample Number	*AU-FIRE g / tonne	*AU-FIRE oz / ton	CU %
HH 231	.01	.001	.710
HH 232	.07	.002	.248
HH 233	.03	.001	.132
HH 234	.07	.002	.305
HH 235	.09	.003	.238

*HISTORICAL*

\*AU = 1 ASSAY TON.

Certified by *Richard Smit*  
MIN-EN LABORATORIES

MIN-EN LABS — ICP REPORT  
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SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CO PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	HG PPM	MI PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	Tl PPM	V PPM	ZH PPM	GA PPM	SH PPM	W PPM	CR PPM
HH 201	7.7	10590	112	12	88	.1	1	38750	.1	6	25440	42710	2640	2	10420	1462	40	90	3	3680	55	18	75	1	26	27.6	114	1	2	6	46
HH 202	4.2	7050	80	9	31	.1	1	39720	.1	5	10239	29550	2490	1	11480	1483	23	60	9	3230	35	7	62	1	19	25.2	107	1	1	3	40
HH 203	4.6	6400	136	8	20	.1	1	43720	.1	6	7658	31770	1980	1	19920	1199	34	90	10	4720	31	5	91	1	19	34.3	114	1	1	3	48
HH 204	5.0	8010	150	8	17	.1	1	36570	.1	8	13777	34150	1810	1	13370	667	88	90	7	3030	30	10	74	1	23	24.1	105	1	1	4	62
HH 205	2.6	7000	102	9	33	.1	1	37760	.1	11	7476	39690	2270	1	17920	1189	88	80	24	940	37	4	51	1	23	46.9	160	1	1	4	73
HH 206	7.5	6930	146	13	26	.1	1	46060	.1	11	26876	44040	1540	1	22670	681	390	160	8	3770	36	22	85	1	18	20.2	92	1	2	6	66
HH 207	6.0	4610	154	12	11	.1	1	43650	.1	21	22229	53490	1220	1	23160	672	368	150	15	880	37	19	68	1	14	25.4	85	1	2	4	53
HH 208	8.0	4490	151	13	14	.1	1	47040	.1	21	31488	56660	1050	1	24380	690	387	150	14	1240	39	28	72	1	12	25.4	83	1	2	6	50
HH 209	7.1	3920	135	10	11	.1	1	43670	.1	19	27754	50250	760	1	22050	551	308	140	15	1480	37	26	75	1	10	24.7	82	1	2	6	64
HH 210	6.9	5340	158	12	27	.1	1	43530	.1	16	25039	43350	970	1	21100	529	379	140	19	1380	37	21	67	1	14	36.6	89	1	2	6	76
HH 211	7.4	5830	253	13	71	.1	1	43660	.1	24	31281	55170	1370	1	23090	646	393	140	34	750	42	29	77	1	20	25.9	94	1	2	6	59
HH 212	5.9	6210	187	9	13	.1	1	49460	.1	21	23819	55080	1430	1	20660	925	238	190	19	1260	40	21	82	1	24	37.4	107	1	2	5	68
HH 213	6.1	5970	163	10	13	.1	1	45130	.1	20	28208	51030	1260	1	23350	639	283	140	27	790	36	25	72	1	17	29.4	79	1	2	6	60
HH 214	7.4	4980	177	7	11	.1	1	45800	.1	31	23127	51490	1690	1	23400	1469	191	130	17	790	77	23	59	1	14	29.0	97	1	1	5	60
HH 215	5.2	4400	118	7	45	.1	1	43720	.1	58	29044	65130	1210	1	22950	881	75	130	20	600	38	27	59	1	12	29.0	90	1	1	5	61
HH 216	9.5	5100	150	6	11	.1	1	45780	.1	60	11897	55850	1740	1	23500	1126	43	130	13	1030	41	12	67	1	13	32.8	89	1	1	4	69
HH 217	4.4	5020	142	6	25	.1	1	53810	.1	18	16110	50080	1480	1	30760	1275	91	170	9	1430	33	15	79	1	12	39.0	103	1	1	3	54
HH 218	2.9	5030	122	13	15	.1	1	45720	.1	115	8341	52180	1030	1	23760	848	463	120	13	1430	24	7	67	1	14	35.4	101	1	1	3	74
HH 219	3.6	4870	127	8	29	.1	1	43580	.1	19	4124	42210	680	1	21100	526	290	120	20	1050	24	4	73	1	17	33.2	63	1	1	3	73
HH 220	4.5	5230	114	7	97	.1	1	47060	.1	24	5602	40610	770	1	24830	590	264	140	15	1110	21	6	81	1	17	38.2	68	1	1	3	80
HH 221	3.4	4600	163	7	88	.1	1	46570	.1	30	5168	49900	750	1	24060	677	190	140	16	980	28	7	72	1	15	37.4	65	1	1	3	79
HH 222	3.9	4230	150	12	65	.1	1	47100	.1	32	14122	63670	970	1	25310	887	407	150	12	960	55	14	66	1	12	35.2	80	1	1	3	69
HH 223	3.2	4820	131	5	81	.1	1	46860	.1	19	5238	40310	800	1	23420	634	154	130	17	830	23	7	77	1	16	33.4	62	1	1	3	77
HH 224	2.9	5530	103	8	102	.1	1	45850	.1	23	5957	37930	910	1	23560	616	291	130	13	1090	22	6	84	1	17	31.9	61	1	1	3	75
HH 225	2.2	5550	137	7	37	.1	1	44820	.1	29	4187	51560	890	1	23270	552	211	130	14	1100	20	2	87	1	16	32.3	54	1	1	3	75
HH 226	2.4	6250	157	4	39	.1	1	41170	.1	13	3377	40290	770	1	18180	430	94	90	14	950	17	1	92	1	23	31.8	54	1	1	3	72
HH 227	2.3	5560	303	7	23	.1	1	22500	.1	20	4461	49100	750	1	12070	356	215	80	16	930	18	2	71	1	22	24.1	60	1	1	2	51
HH 228	2.0	4010	163	3	30	.1	1	35430	.1	27	5897	35880	890	1	14250	307	95	90	15	780	14	3	58	1	15	50.0	46	1	1	4	73
HH 229	1.2	4450	64	2	18	.1	1	34130	.1	15	2593	27900	1150	1	12550	286	66	110	14	780	12	1	49	1	13	41.8	45	1	1	3	63
HH 230	1.7	5250	23	2	43	.1	1	26160	.1	11	3990	20710	1400	1	11960	166	25	180	22	860	12	1	46	3	13	47.8	61	1	1	3	53
HH 231	2.1	9990	23	18	29	.4	1	23640	.1	13	6610	26940	2380	1	12190	265	568	240	26	950	29	3	74	2	33	56.6	105	1	1	5	97
HH 232	1.2	9120	111	10	24	.5	1	43420	.1	12	2493	30980	1650	1	18790	404	306	120	21	1060	24	3	66	1	28	72.5	90	1	1	4	90
HH 233	1.1	11530	95	6	32	.4	2	39510	.1	13	1444	35970	1780	1	15830	279	111	110	19	1080	22	1	92	1	51	67.8	51	1	1	4	109
HH 234	2.0	11070	1	4	834	.1	9	14730	.1	16	2815	34110	5980	1	14880	127	94	460	22	980	13	1	128	1	1294	81.2	45	1	1	6	131
HH 235	1.6	13150	1	4	455	.1	11	13850	.1	17	2293	44740	8890	3	18290	142	90	600	22	990	11	1	605	1	1923	100.8	50	1	1	6	139

HISTORICAL

COMP: KENNECOTT CANADA INC.

PROJ: 02-397

ATTN: S.BISHOP/J.MARR/H.SM11

MIN-EN LABS — ICP REPORT  
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7H 1T2  
(604)980-5814 OR (604)988-4524

FILE NO: 18-0910-111

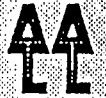
DATE: 91/10/12

\* CORE \* (ACT:31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SH PPM	W PPM	CR PPM	AU-WET PPB
29783	1.8	20710	1	5	280	.1	17	10180	.1	16	224	33340	10970	30	19640	501	4	1180	27	1270	33	1	62	1	2620	110.4	98	1	2	7	141	20
29784	1.8	20000	1	3	285	.1	20	10240	.1	18	127	36230	11420	18	20680	433	1	870	26	1370	19	1	90	1	3217	112.6	81	1	3	5	107	15
29785	2.2	5340	1	2	22	.1	15	18360	.1	8	225	24370	760	4	3230	543	3	790	3	1650	24	1	43	1	2756	70.2	131	1	3	4	93	40
29786	1.5	21720	1	3	276	.1	19	11440	.1	18	173	38830	11670	27	20370	406	1	1310	26	1420	17	1	45	1	2948	117.4	91	1	2	5	117	20
29787	2.0	13500	1	2	175	.1	22	13120	.1	14	477	36500	7450	13	16350	759	1	1090	13	1720	13	1	75	1	4069	120.9	88	1	3	5	92	25
29788	1.5	19170	1	2	229	.1	17	7820	.1	15	91	34230	11490	20	19460	386	1	1090	21	1300	14	1	29	1	2889	110.2	64	1	2	5	119	5
29789	1.2	30680	1	3	41	.1	23	34240	.1	30	61	52160	500	35	37030	827	1	360	74	2110	3	1	84	1	4044	110.6	66	1	3	5	139	5

HISTORICAL





GEOCHEMICAL ANALYSIS CERTIFICATE



Booker Gold Ltd. File # 93-0965 Page 1  
 1070-609 West Hastings St, Vancouver BC Submitted by: Hugh Grenfal

1 Ft = 30.5cm		DEPTH (FEET)	SAMPLE#	Cu ppm	Au* ppb	AVERAGE
PERCUSSION HOLE	PH 12	10-20	D 65051	929	20	977 Cu 20 Au
		20-30	D 65052	1029	19	
		30-40	D 65053	973	21	
		20-30	D 65054	1227	26	
		30-40	D 65055	1162	32	
	PH 11	40-50	D 65056	1174	31	1195 Cu 36 Au
		50-60	D 65057	1463	42	
		60-70	D 65058	1339	36	
		70-80	D 65059	1114	51	
		80-90	D 65060	1095	28	
		90-100	D 65061	985	38	
		20-30	D 65062	87	3	
		30-40	D 65063	183	9	
		40-50	D 65064	182	6	
		50-60	D 65065	290	7	
	PH 10	60-70	RE D 65065	282	7	404 Cu 11 Au
		70-80	D 65066	337	8	
		80-90	D 65067	234	7	
		90-100	D 65068	418	16	
		100-110	D 65069	656	9	
		110-120	D 65070	826	14	
		120-130	D 65071	445	10	
		130-140	D 65072	339	7	
		140-150	D 65073	728	24	
		150-160	D 65074	604	25	
	PH 9	20-30	D 65075	323	9	130 Cu 7 Au
		30-40	D 65076	118	8	
		40-50	D 65077	147	7	
		50-60	D 65078	125	6	
		20-30	D 65079	194	5	
PH 8	30-40	D 65080	249	7	243 Cu 7 Au	
	40-50	D 65081	255	6		
	50-60	D 65082	333	7		
	60-70	D 65083	382	11		
	70-80	D 65084	266	7		
	80-90	D 65085	441	14		
	90-100	D 65086	221	7		
		STANDARD C/AU-R	63	460		

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.  
 - SAMPLE TYPE: CUTTING AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: MAY 25 1993 DATE REPORT MAILED: Jan 1, 93 SIGNED BY: [Signature] D. FOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

1 FT = 30.5 cm		DEPTH (FEET)	SAMPLE#	Cu ppm	Au* ppb	AVERAGE		
PH 6		60-70	D 65459	428	8	337 Cu . 8 Au .		
		70-80	D 65460	279	8			
		80-90	D 65461	244	5			
		90-100	D 65462	324	7			
		100-110	D 65463	214	4			
		110-120	D 65464	148	5			
		120-130	D 65465	131	6			
		130-140	D 65466	216	7			
		140-150	D 65467	222	8			
		10-20	D 65468	189	21			
	PH 3		20-30	D 65469	154		23	134 Cu 19 Au .
			30-40	D 65470	137		17	
			40-50	D 65471	151		22	
			50-60	D 65472	139		17	
			60-70	D 65473	155		21	
		70-80	D 65474	54	12			
		80-90	D 65475	94	18			
		90-100	D 65476	130	18			
		10-20	D 65477	151	13			
			RE D 65477	147	11			
PH 4		20-30	D 65478	94	16	186 Cu 37 Au		
		30-40	D 65479	65	16			
		40-50	D 65480	244	38			
		50-60	D 65481	718	140			
		60-70	D 65482	111	17			
		70-80	D 65483	243	39			
		80-90	D 65484	162	22			
		90-100	D 65485	209	35			
		100-110	D 65486	136	18			
		110-120	D 65487	109	50			
		120-130	D 65488	128	39			
		130-140	D 65489	118	24			
		140-150	D 65490	142	35			
		150-160	D 65491	156	50			
	PH 5		30-40	D 65492	785		40	
		40-50	D 65493	851	44			
		50-60	D 65494	1167	58			
			STANDARD C/AU-R	62	480			

Sample type: CUTTING. Samples beginning 'RE' are duplicate samples.

1 Ft = 30.5cm		DEPTH (Feet)	SAMPLE#	Cu ppm	Au* ppb	AVERAGE
PERCUSSION HOLES	PH 8	100 - 110	D 65087	281	11	243 Cu 7 Au .
		110 - 120	D 65088	145	7	
		120 - 130	D 65089	124	4	
		130 - 140	D 65090	153	5	
		140 - 150	D 65091	111	5	
	PH 7	20 - 30	D 65092	703	25	554 Cu 17 Au .
		30 - 40	D 65093	397	17	
		40 - 50	D 65094	421	9	
		50 - 60	D 65095	481	11	
		60 - 70	D 65096	709	15	
70 - 80		D 65097	869	21		
80 - 90		D 65098	449	11		
90 - 100		D 65099	427	11		
100 - 110		D 65100	243	8		
RE D 65100			244	10		
PH 1	40 - 50	D 65351	147	9	89 Cu 11 Au .	
	50 - 60	D 65352	96	14		
	60 - 70	D 65353	123	15		
	70 - 80	D 65354	50	9		
	80 - 90	D 65355	63	8		
PH 2	90 - 100	D 65356	57	10	92 Cu 8 Au .	
	30 - 40	D 65357	61	4		
	40 - 50	D 65358	77	10		
	50 - 60	D 65359	76	11		
	60 - 70	D 65360	51	7		
	70 - 80	D 65361	26	6		
PH 7	80 - 90	D 65362	59	7	554 Cu 17 Au .	
	90 - 100	D 65363	90	9		
	100 - 110	D 65364	84	9		
	110 - 120	D 65451	613	37		
	120 - 130	D 65452	752	27		
PH 6	130 - 140	D 65453	544	16	554 Cu 17 Au .	
	140 - 150	D 65454	591	15		
	20 - 30	D 65455	368	6		
	30 - 40	D 65456	537	14		
PH 6	40 - 50	D 65457	683	11	554 Cu 17 Au .	
	50 - 60	D 65458	581	16		
	STANDARD C/AU-R		64	490		

Sample type: CUTTING. Samples beginning 'RE' are duplicate samples.

		1 FT = 30.5cm	DEPTH (FEET)	SAMPLE#	Cu ppm	Au* ppb	AVERAGE.
PERCUSSION HOLE.	PH 5		60 - 70	D 65495	2691	110	1642 Cu 91 Au .
			70 - 80	D 65496	2612	310	
			80 - 90	D 65497	1930	80	
			90 - 100	RE D 65497	2092	72	
				D 65498	1500	53	
			100 - 110	D 65499	1153	55	
		NO NUMBER	79	7			
		STANDARD C/AU-R	60	510			

Sample type: CUTTING. Samples beginning 'RE' are duplicate samples.

ASSAY CERTIFICATE

Booker Gold Ltd. PROJECT HEARNE HILL File # 93-1712 Page 1  
 1070 - 609 W. Hastings St, Vancouver BC



1 Ft = 30.5cm

SAMPLE#	Cu %	Ag** oz/t	Au** oz/t			
TRENCH T 93-2	E 209451	.083	<.01	.001	10 FT LENGTH'S FROM WEST END OF TRENCH EXCEPT AS SHOWN	
	E 209452	.067	<.01	.001		
	E 209453	.050	<.01	<.001		
	E 209454	.039	<.01	<.001		
	E 209455	.125	<.01	.001		
	E 209456	.160	<.01	.001		
	E 209457	.372	.02	.004		
	E 209458	.393	<.01	.002		- 70-76
	E 209459	.155	.01	<.001		- 76-80
	E 209460	.858	.07	.009		- 80-90
	E 209461	3.462	.30	.007		90-95
	E 209462	5.970	.72	.017		95-100
	E 209463	1.847	.14	.013		100-105
	E 209464	1.601	.12	.004		105-110
	E 209465	1.260	.11	.011		110-115
TRENCH T 93-3 (DISCOVERY TRENCH)	E 209466	.856	.05	.002	- 120	
	E 209467	.573	.07	.001	- 125	
	E 209468	1.435	.14	.009	- 130	
	E 209469	4.639	.29	.022	- 135	
	E 209470	2.162	.27	.015	- 140	
	E 209471	3.727	.19	.014	- 145	
	E 209472	2.470	.17	.022	- 150	
	E 209473	2.107	.25	.011	- 155	
	E 209474	2.198	.09	.011	- 160	
	E 209475	1.572	.08	.020	- 165	
TRENCH T 93-3 (DISCOVERY TRENCH)	E 209476	.371	.03	.004	165-170	
	E 209477	.166	.01	.001	170-180	
	E 209478	.171	<.01	.001	180-190	
TRENCH T 93-3 (DISCOVERY TRENCH)	E 209479	.298	<.01	.004	10-15	
	RE E 209479	.300	<.01	.003	10-15	
TRENCH T 93-3 (DISCOVERY TRENCH)	E 209480	.217	<.01	.002	15-20	
	E 209481	.248	<.01	.003	20-25	
	E 209482	.112	.05	.001	25-27	
	E 209483	.119	<.01	.001	27-33	
	E 209484	.242	<.01	.001	33-37	
STANDARD R-1/AG-1/AU-1	.862	.97	.098			

CENTRE AND HANGING WALL BRECCIA PIPE  
 85 FT 2.30% Cu  
 0.012 oz/t Au  
 0.19 oz/t Ag

ANDESITE

1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP. AG\*\* & AU\*\* BY FIRE ASSAY FROM 1 A.T. SAMPLE.  
 - SAMPLE TYPE: ROCK Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUL 22 1993 DATE REPORT MAILED: Aug 3/93 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ACME ANALYTICAL



ACME ANALYTICAL

1 FT = 30.5 cm

TRENCH T93-3  
(DISCOVERY)

SAMPLE#

Cu Ag\*\* Au\*\*  
% oz/t oz/t

E 209485	.200	.01	.001	37-41
E 209486	.055	<.01	.002	41-50
E 209487	.031	<.01	<.001	50-54
E 209488	.020	.02	<.001	60-70
E 209489	.037	<.01	<.001	70-80
E 209490	.006	.01	<.001	80-90
E 209491	.015	.01	<.001	90-100
RE E 209491	.015	.01	<.001	
E 209492	.172	.03	<.001	100-110
E 209493	.007	.02	<.001	54-60
E 209494	.460	.11	<.001	110-120
E 209495	.451	.08	<.001	120-130
STANDARD R-1/AG-1/AU-1	.863	.99	.101	

FOOTWALL ZONE  
BX PIPE

CENTRE BX PIPE

Sample type: ROCK. Samples beginning 'RE' are duplicate samples.

## ASSAY CERTIFICATE



Booker Gold Ltd. PROJECT HEARNE HILL File # 93-1712R



SAMPLE#	SAMPLE AU-100		NATIVE		AVG.	
	wt. gm	oz/t	Au mg	oz/t		
E 209469	750	.049	.44	.066		
E 209472	650	.012	.06	.015		
E 209475	600	.016	<.01	.016		

-100 MESH AU BY FIRE ASSAY FROM 1 A.T. SAMPLE.  
- SAMPLE TYPE: ROCK REJ.

DATE RECEIVED: AUG 30 1993 DATE REPORT MAILED: *Sept 7/93* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Booker Gold Ltd. PROJECT HEARNE HILL File # 93-1713  
 1070 - 609 W. Hastings St, Vancouver BC

SAMPLE#		Cu %	Ag** oz/t	Au** oz/t	1 FT = 30.5cm	
TRENCH T 93-3 (DISCOVERY)	E 209496	.729	.17	.007	130-140	HW ZONE BX PIPE.
	E 209497	2.544	.78	.005	140-143	
	E 209498	.362	.01	.002	143-150	
	E 209499	.599	<.01	.005	150-158.5	
	E 209500	.882	.10	.003	158.5-162.5	
	E 209801	1.415	.18	.009	162.5-170	B.F.P.
	E 209802	1.013	.22	.020	170-175	
	E 209803	2.594	.30	.004	175-180	
	E 209804	.266	<.01	.003	180-190	
	E 209805	.240	<.01	.057	190-200	
TRENCH T 93-4	E 209806	.366	<.01	.010	200-210	ALTERATION / SHEARED BRECCIATED ZONE EAST END OF TRENCH.
	E 209807	.528	.07	.004	210-220	
	E 209808	.011	<.01	.001	220-230	
	E 209809	.052	<.01	<.001	230-240	
	E 209810	.052	<.01	.001	240-300	
	E 209811	.061	<.01	.001	300-310	
	RE E 209811	.065	<.01	.001		
	E 209812	.043	<.01	.003	310-320	
	E 209813	.085	<.01	.002	320-330	
	E 209814	.120	<.01	.001	330-340	
TRENCH T 93-5	E 209815	.234	<.01	.007	100-110	ANDESITE
	E 209816	.214	<.01	.004	150-160	
	E 209817	.174	<.01	.002	160-170	
	E 209818	.209	<.01	.003	170-180	
	E 209819	.288	<.01	.005	180-190	
	E 209820	.085	<.01	.014	290-300	ALTERATION ZONE EAST END OF TRENCH.
	E 209821	.128	<.01	.001	300-310	
	E 209822	.226	.01	.002	310-320	
	E 209823	.099	<.01	.003	320-330	
	STANDARD R-1/AG-1/AU-1	.855	.97	.102		

1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP. AG\*\* & AU\*\* BY FIRE ASSAY FROM 1 A.T. SAMPLE.  
 - SAMPLE TYPE: ROCK Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUL 27 1993 DATE REPORT MAILED: July 30/93 SIGNED BY: *C. Leung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS





GEOCHEMICAL ANALYSIS CERTIFICATE

AUG 3 1993



Booker Gold Ltd. PROJECT HEARNE HILL File # 93-1713  
1070 - 609 W. Hastings St, Vancouver BC

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	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
E 209808	2	80	12	156	.6	160	312	7863	19.14	68	<5	<2	<2	19	.6	2	4	5	.32	.146	3	5	.05	8	<.01	5	.32	<.01	.17	<1

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.  
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
- SAMPLE TYPE: ROCK

DATE RECEIVED: JUL 27 1993    DATE REPORT MAILED: *July 30/93*    SIGNED BY: *C. Leong* .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ASSAY CERTIFICATE

Booker Gold Ltd. PROJECT HEARNE HILL File # 93-1900 Page 1  
 1070 - 609 W. Hastings St, Vancouver BC V6B 4W4



1 FT = 30.5 cm

	SAMPLE#	Cu %	Au** ppb	
PH 18 20-200	20-30	D 65901	.132	45
		D 65902	.153	40
		D 65903	.117	32
		D 65904	.112	34
		D 65905	.096	26
		D 65906	.102	21
		D 65907	.212	51
		D 65908	.124	37
		D 65909	.111	37
		D 65910	.094	16
		D 65911	.129	33
		D 65912	.112	25
		D 65913	.102	30
		D 65914	.107	56
		D 65915	.095	73
	D 65916	.090	20	
	D 65917	.106	25	
	RE D 65917	.105	30	
	D 65918	.083	17	
	190-200	D 65919	.135	51
	20-30	D 65920	.161	61
		D 65921	.173	84
		D 65922	.155	77
		D 65923	.125	69
		D 65924	.117	46
PH 17		D 65925	.136	49
		D 65926	.135	41
		D 65927	.123	38
		D 65928	.120	73
		D 65929	.115	42
		D 65930	.129	65
		D 65931	.107	30
		D 65932	.096	35
		D 65933	.099	39
		D 65934	.148	56
	170-180	STANDARD R-1/AU-R	.861	488

20-200 ft 180 ft  
 0.115% Cu 34 ppb

20-210 ft 190 ft  
 0.126% Cu 54 ppb

1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP. AU\*\* ANALYSIS BY FIRE ASSAY/ICP FORM 10 GM SAMPLE.  
 - SAMPLE TYPE: CUTTING Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 9 1993 DATE REPORT MAILED: Aug 16/93 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



	SAMPLE#	Cu %	Au** ppb
PH 17	D 65935	.112	53
	D 65936	.100	51
	200-210 . D 65937	.111	57

Sample type: CUTTING.



ACHE ANALYTICAL



ACHE ANALYTICAL

1 FT = 30.5 cm		SAMPLE#	Cu %
PH 15 120-200	120-130	D 65001	.018
		D 65002	.019
		D 65003	.029
		D 65004	.031
		D 65005	.027
		D 65006	.021
		D 65007	.026
		D 65008	.031
		D 65009	.014
		D 65010	.014
PH 19.	190-200	D 65011	.012
		D 65012	.013
		D 65013	.024
		D 65014	.037
		D 65015	.030
		D 65016	.047
		D 65017	.040
		D 65018	.032
		D 65019	.034
		D 65020	.032
		D 65021	.037
		D 65022	.041
		D 65023	.042
		D 65024	.031
		D 65025	.031
PH 16	200-210	D 65026	.026
	150-160	D 65851	.055
		D 65852	.104
		D 65853	.107
		D 65854	.082
PH 13	190-200	D 65855	.038
	30-40.	D 65856	.264
		RE D 65856	.265
		D 65857	.286
		D 65858	.256
	70-80	D 65859	.290
		D 65860	.237
	STANDARD R-1	.860	

120-200 80ft 0.025% Cu .

20-210 190ft 0.028% Cu .

150-200 50ft 0.077% Cu .

Sample type: CUTTING. Samples beginning 'RE' are duplicate samples.



ACHE ANALYTICAL



ACHE ANALYTICAL

1 FT = 30.5 cm		SAMPLE#	Cu %
PH 13.	80-90	D 65861	.179
		D 65862	.308
		D 65863	.207
		D 65864	.188
		D 65865	.214
		D 65866	.182
		D 65867	.143
		D 65868	.119
		D 65869	.151
		D 65870	.172
	D 65871	.215	
	D 65872	.232	
	D 65873	.014	
	D 65874	.060	
	D 65875	.088	
PH 14		D 65876	.081
		D 65877	.130
		D 65878	.159
		D 65879	.138
		D 65880	.146
		D 65881	.162
		D 65882	.156
		D 65883	.178
		D 65884	.196
		D 65885	.171
	D 65886	.211	
	D 65887	.258	
	D 65888	.297	
	D 65889	.265	
	D 65890	.242	
PH 15	20-30	D 65891	.142
		D 65892	.143
		D 65893	.110
		D 65894	.130
		RE D 65894	.128
		D 65895	.132
	D 65896	.069	
	STANDARD R-1	.848	

30-200 170ft 0.214% Cu

20-200 180ft 0.164% Cu

20-120 100ft 0.083% Cu

Sample type: CUTTING. Samples beginning 'RE' are duplicate samples.



1 FT = 30.5 cm		SAMPLE#	Cu %
PH 15.	110-120	D 65897	.037
		D 65898	.020
		D 65899	.026
		D 65900	.030
		D 65938	.125
PH 16	20-30	D 65939	.072
		D 65940	.086
		D 65941	.094
		D 65942	.076
		D 65943	.088
	140-150	D 65944	.084
		D 65945	.054
		RE D 65945	.054
		D 65946	.063
		D 65947	.045
		D 65948	.050
		D 65949	.081
		D 65950	.054
		STANDARD R-1	.840

20-150 ft 130 ft 0.071% Cu

Sample type: CUTTING. Samples beginning 'RE' are duplicate samples.



GEOCHEMICAL ANALYSIS CERTIFICATE



Booker Gold Ltd. PROJECT HEARNE HILL File # 93-1907 Page 1  
 1070 - 609 W. Hastings St, Vancouver BC V6B 4W4

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	Au** ppb
E 205901	5	143	134	2062	1.4	30	6	922	4.23	477	<5	<2	<2	6	9.8	14	3	6	.26	.025	<2	31	.15	8	.01	3	.31	.08	.01	<1	38

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.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: ROCK AU\*\* ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 10 1993 DATE REPORT MAILED: *Aug 17/93* . SIGNED BY: *C. Leong* . D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



## ASSAY CERTIFICATE



Booker Gold Ltd. PROJECT HEARNE HILL File # 93-1907 Page 2

1070 - 609 W. Hastings St, Vancouver BC V6B 4W4

SAMPLE#	Cu %	Ag** oz/t	Au** oz/t
E 205902	.812	.04	<.001
E 205903	.582	.06	.002
E 205904	20.603	1.75	.146
E 205905	.075	<.01	.001
RE E 205905	.071	<.01	.001

FLOAT SAMPLES TRENCH T93-4  
AUGUST 1993

1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP. AG\*\* & AU\*\* BY FIRE ASSAY FROM 1 A.T. SAMPLE.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 10 1993

DATE REPORT MAILED:

*Aug 17/93*

SIGNED BY.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS





ASSAY CERTIFICATE



Booker Gold Ltd. File # 93-2646  
1070 - 609 W. Hastings St, Vancouver BC V6B 4W4

1 FT = 30.5 cm		SAMPLE#	Cu %	SAMPLE wt. gm	AU-100 oz/t	NATIVE Au mg	AVG. oz/t		
TRENCH T 93-14	{	73472 B	.212	620	.002	<.01	.002	60-65	40 ft (SAMPLES MEASURED FROM 00' AT NW END)
		73473 B	2.349	670	.019	.02	.020	65-70	
		73474 B	2.706	530	.040	.02	.041	70-80	
		73475 B	.533	670	.010	<.01	.010	80-90	
		73476 B	.307	560	.004	<.01	.004	90-100	
TRENCH T93-7	{	85948 B	.218	620	.002	<.01	.002	0-10	0.267 Cu . 0.003 Au
		85949 B	.317	590	.003	<.01	.003	10-20	

1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP. -100 MESH AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. NATIVE AU BY FIRE ASSAY FROM TOTAL SAMPLE.  
- SAMPLE TYPE: ROCK

DATE RECEIVED: SEP 27 1993

DATE REPORT MAILED:

*Oct 1/93*

SIGNED BY.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



## ASSAY CERTIFICATE



Booker Gold Ltd. File # 93-2937 Page 1

1070 - 609 W. Hastings St, Vancouver BC V6B 4W4

1 Ft = 30.5cm

20-30

PH 20

240-250

10-20

PH 21

110-120

SAMPLE#

Cu Au\*\*  
% oz/t

D 65751	2.058	.026
D 65752	4.535	.029
D 65753	2.064	.020
D 65754	2.234	.019
D 65755	1.966	.036
D 65756	2.121	.015
D 65757	2.836	.014
D 65758	2.005	.016
D 65759	2.442	.009
D 65760	2.468	.019
D 65761	2.495	.017
D 65762	1.857	.023
D 65763	1.549	.006
D 65764	1.472	.005
D 65765	1.303	.004
D 65766	1.216	.009
D 65767	1.194	.005
D 65768	.951	.006
D 65769	1.193	.004
D 65770	2.206	.008
D 65771	2.016	.012
D 65772	3.058	.014
RE D 65772	3.100	.015
D 65773	2.503	.011
D 65774	1.063	.050
D 65775	.718	.012
D 65776	.819	.006
D 65777	.700	.009
D 65778	.563	.005
D 65779	.439	.003
D 65780	.432	.003
D 65781	.480	.008
D 65782	.531	.012
D 65783	.444	.002
D 65784	.368	.003
STANDARD R-1/AU-1	.849	.098

1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP. AU\*\* BY FIRE ASSAY FROM 1 A.T. SAMPLE.

- SAMPLE TYPE: CUTTING Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: OCT 18 1993

DATE REPORT MAILED: Oct 25/93

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



1 FT = 30.5cm

SAMPLE#

Cu Au\*\*  
% oz/t

PH 21

140 ~~140~~ -150

D 65785	.441	.003
D 65786	.316	.001
D 65787	.331	.005
RE D 65787	.329	.003

Sample type: CUTTING. Samples beginning 'RE' are duplicate samples.

DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE					
FROM	TO											
40	90		Quartz-Feldspar-Biotite Porphyry strongly clay altered, hematite stains with 3% pyrite									
90	100		BIOTITE-Quartz-Feldspar Porphyry more mafic minerals, strongly clay alt, traces of sericite, 5% pyrite									
			E.O.H									
			1 FT = 30.5cm									

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 2

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE							
FROM	TO													
10	30		Moderately silicified heavily clay altered volcanic, pyrite ~3% weak hematite stain											
30	90		Quartz-Feldspar-Biotite Porphyry strongly clay altered, locally with volcanic fragments, occasionally strongly hematite stain, more likely brecciated on the top, some sericite down the hole weak pyrite alteration, traces of chalcocite mostly in central part of the hole only quartz and clay left on the bottom of the hole.											
			E.O.H											
			1 FT = 30.5 cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 3

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____		Dep. _____	Logged By _____
Date Begun _____		Bearing _____	Claim _____
Date Finished _____		Elev. Collar _____	Core Size _____
Date Logged _____			

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE							
FROM	TO													
10	30		Strongly clay altered, locally silicified and oxidized felsic fine volcanic? , tr. of pyrite.											
30	100		Almost completely decomposed rock with some hematite stain quartz fragments mostly consist of clay, lower part of the hole more silicified and increased in mafic minerals											
			E.O.H.											
			1 FT = 30.5 cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 4

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

**Ft.**

	DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE					
	FROM	TO											
*	10	100		Dark grey, moderately silicified pyrite and hematite altered volcanic									
	100	110		Extremely strong clay altered rock only quartz left.									
	110	120		Intrusive dyke more mafic but strongly clay sericite altered, tr of pyrite									
	120	160		Decomposed rock only quartz and pyrite left mostly consist of clay									
				E.O.H									
	1 Ft	= 30.5cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 5

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT.

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
30	60		Strongly silicified and oxidized volcanic, tr. of pyrite								
60	110		Quartz-Feldspar-Diabase Porphyry moderately clay alt. ore strongly silicified, some volcanic fragments on the top of the hole (maybe brecciated), more felsic and increased pyrite down the hole								
			E.O.H								
IFA	= 30.5cm										



DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. P.H 6

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE					
FROM	TO											
20	150		Strongly silified clay-sericite altered rock of felsic origin, sericite and pyrite, chalcopyrite increased down the hole									
			E.O.H									
1FT =	30.5cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 7

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH	FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE					
20	50			Moderately silicified clay altered volcanic ± pyrite > 5% weak hematite alt.									
50	110			Quartz Feldspar - Biotite Porphyry strongly clay sericite altered, pyrite > 5% tr. of chalcopyrite									
				E.O.H									
IFT =	30.5cm												

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 8

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____		Dep. _____	Logged By _____
Date Begun _____		Bearing _____	Claim _____
Date Finished _____		Elev. Collar _____	Core Size _____
Date Logged _____			

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE							
FROM	TO													
20	40		Extremely strong clay alt. rock only ptz left clay hematite alt.											
40	60		Strongly silicified and brecciated volcanic? traces of chalcocite, pyrite and Mo?											
60	150		Extremely strong clay altered probably intrusive at 100 ft. locally large mica-biotite sheets, chalcocite increased down the hole											
			E.O.H											
1FT =	30.5cm													

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH. 9

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Bearing _____	Logged By _____
Date Begun _____	Elev. Collar _____	Claim _____	Core Size _____
Date Finished _____			
Date Logged _____			

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
20	50		Strongly silicified and oxidized probably volcanic with 2% pyrite and tr. of chalcopyrite								
			E.O.H								

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 10

DIP TEST		
Angle		
Footage	Reading	Corrected

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____		Dep. _____	Logged By _____
Date Begun _____		Bearing _____	Claim _____
Date Finished _____		Elev. Collar _____	Core Size _____
Date Logged _____			

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
20	30		Strongly hematite, clay altered, moderately silicified volcanic, tr. of pyrite								
30	160		Strongly clay alt. Biotite-feldspar-porphyr, weakly hematite altered pyrite ~ 1% occasionally tr. of chalcoppyrite more fetic down the hole  E.O.H								
IFT = 30.5cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 11

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_  
 Section \_\_\_\_\_  
 Date Begun \_\_\_\_\_  
 Date Finished \_\_\_\_\_  
 Date Logged \_\_\_\_\_

Lat. \_\_\_\_\_  
 Dep. \_\_\_\_\_  
 Bearing \_\_\_\_\_  
 Elev. Collar \_\_\_\_\_

Total Depth \_\_\_\_\_  
 Logged By \_\_\_\_\_  
 Claim \_\_\_\_\_  
 Core Size \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE							
FROM	TO													
20	40		Strongly silicified and oxidized with weak clay alteration probably volcanic weak pyrite alt.											
40	100		Quartz-Feldspar Porphyry strongly clay alt at 60-70 feet mafic dyke weak pyrite alt, tr. of chalcopyrite  E.O.G.											
1 FT	= 30.5cm													

DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH12

DIP TEST		
Angle		
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
10	40		Quartz-Feldspar-Biotite Porphyry moderately silicified with weak clay alteration, ~3% pyrite, tr. of chalcopyrite.								
IFT = 30.5 cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 13

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE					
FROM	TO											
30	80		Strongly silicified hematite stain, fine (tuff) volcanic, plagioclase altered to clay and sericite, diss. pyrite 3-4%, tr of chalcopyrite									
80	90		Quartz - Feldspar Porphyry strongly clay/sericite altered diss pyrite 2% tr. of chalcopyrite									
90	130		Strongly clay/sericite altered felsic volcanic? tr of pyrite									
130	200		Quartz - Feldspar - Biotite - Porphyry strongly clay-sericite altered, weak hematite stain, tr of pyrite and chalcopyrite.									
			E.O.H									
1 FT = 30.5cm												



# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 14

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE							
FROM	TO													
20	60		Extremely strong clay alt. rock (decomposed volcanic <sup>2</sup> ) composed mostly of quartz, clay and a few mafic minerals, strong hematite disc and tr. of pyrite											
60	200		Fine Quartz-Feldspar Porphyry Strongly clay moderate sericite alt. mafic minerals replaced by carbonates and hematite tr. of pyrite throughout occ. pyrite content > 5% and tr. of chalcopyrite											
			E.O.H.											
			IFT = 30.5cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 15

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
20	60		Strongly silicified moderately oxidized brecciated rock of probably volcanic origin, weak pyrite alt, tr. of chalcoprite								
60	120		Quartz-Feldspar Porphyry strongly clay alt. only qtz left on the bottom of the hole.								
			E.O.H								
IFT	=	30.5cm									

DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 16

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
20	150		Strongly silicified crystal tuff of andesitic composition, moderately silicified calc carbonate int. some plagioclase alt. to sericite trace to 2% pyrite								
			E.O.H.								
1 FT			= 30.5cm								

DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 17

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE			
FROM	TO									
20	2/0		Strongly silicified volcanic tuff strong Kematite stain and large blebs of chalcopyrite in the lesser part at base tr. of pyrite throughout.							
			E.O.H.							
1FT	=	30.5cm								

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 18

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____		Dep. _____	Logged By _____
Date Begun _____		Bearing _____	Claim _____
Date Finished _____		Elev. Collar _____	Core Size _____
Date Logged _____			

FT.

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE						
FROM	TO												
20	40		Strongly silicified, hematite stain volcanic tuff with moderate sericite alteration, tr of pyrite.										
40	200		Biotite - Feldspar Porphyry, plagioclase completely altered to sericite, part of the matrix replaced by hematite, strong pyrite alteration										
			E.O.H										
1 FT	=	30.5 cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH 19

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE							
FROM	TO													
20	90		Strongly altered mafic volcanic rock? some plagioclase alt. to sericite, weak iron carbonate stain more highly crystal buff											
210			Strongly silicified volcanic rock of mafic origin, weak hematite stain, trace of pyrite											
			EOH											
IFT	= 30.5cm													

# DIAMOND DRILL RECORD

VH 20

PROPERTY \_\_\_\_\_

HOLE No.       

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT.

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
20	50		Entirely strong clay altered rock some mafic minerals, quartz and clay.								
50	60		As above + hematite stain								
60	70		Strongly clay alt. mafic rich rock with tr. of pyrite								
70	80		As above								
80	90		As above								
90	100		Fine Quartz-Feldspar Porphyry strongly clay, moderately sericite alt. mafic minerals replaced by carbonates and hematite, + of pyrite								
100	110		As above + tr of chalcopyrite								
110	120		As above + 5% pyrite								
120	130		As above + more biotite								
130	250		Fine Quartz-Feldspar-Biotite porphyry clay altered with 75% pyrite								
1 FT = 30.5 cm											

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

HOLE No. PH21

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ Lat. \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By \_\_\_\_\_  
 Date Begun \_\_\_\_\_ Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished \_\_\_\_\_ Elev. Collar \_\_\_\_\_ Core Size \_\_\_\_\_  
 Date Logged \_\_\_\_\_

FT

DEPTH	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
10	40	Extremely strong clay alt (almost decomposed) mafic volcanic ? rich in biotite, hematite stain with tr of pyrite								
40	150	Quartz-Feldspar-Biotite Porphyry strongly clay altered, most of sodic feldspars have been altered to sericite, moderately hematite stain pyrite 3-5%, occasionally large blebs of chalcopyrite								
		E.O.H								
IFT	= 30.5cm									



STATEMENT OF COSTS

GEOLOGY

Engineering.....10 days at \$350	\$3,500.00
Geologist.....12 days at \$300	\$3,600.00

EXCAVATOR

892 John Deere.....18 days at \$1600	\$28,800.00
Low bed transport	\$1,200.00

DRILLING

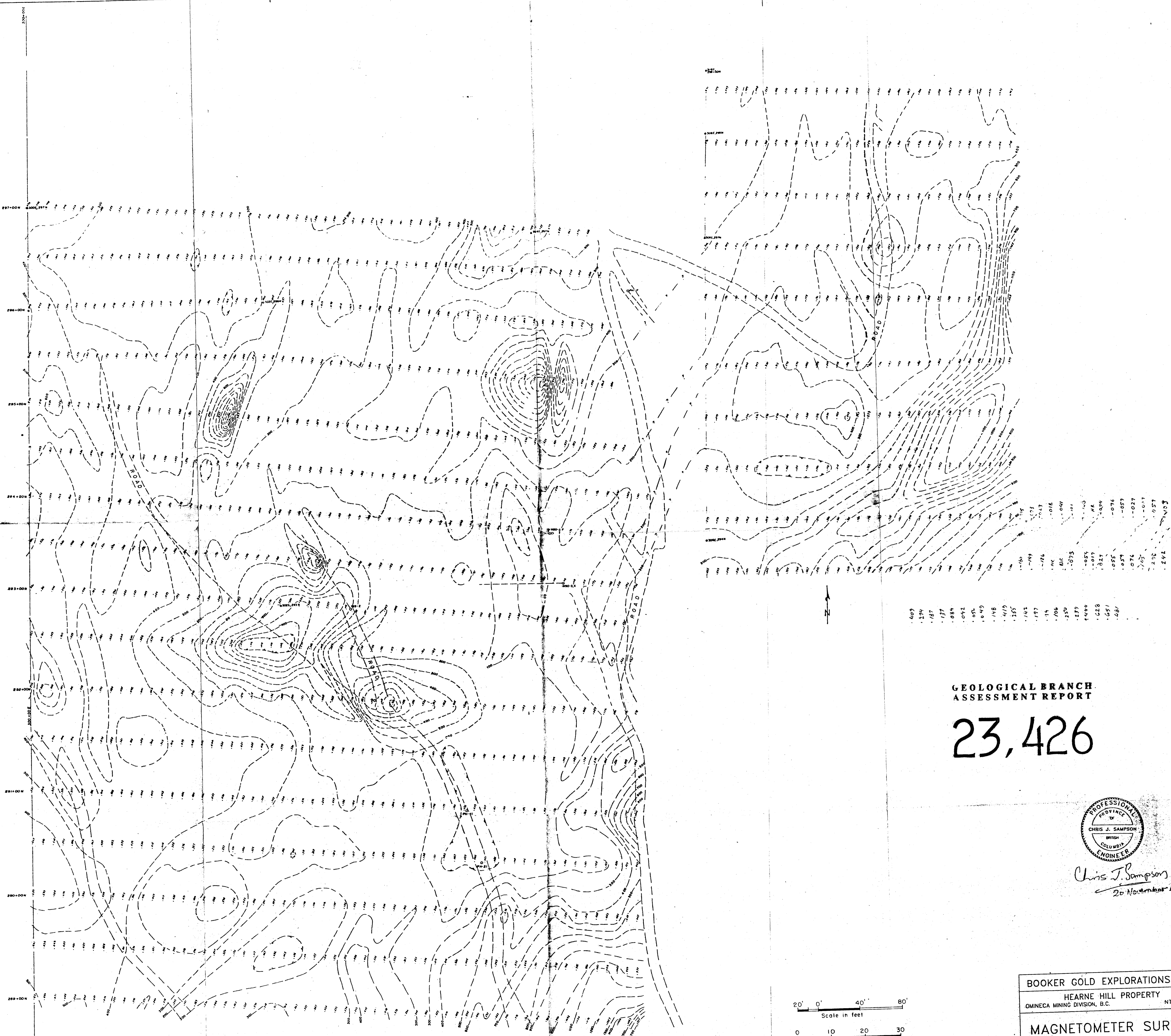
3,010 feet at \$10.00	\$30,100.00
Cat .....50 hours at \$60	\$3,000.00
Standby	\$3,000.00
Mob-Demob	\$3,900.00

Assays

Acme Labs	\$10,000.00
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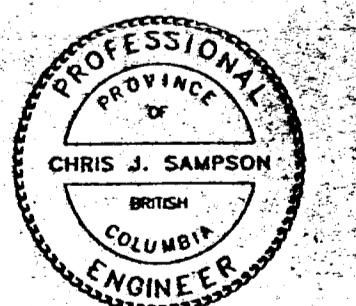
TOTAL

\$87,100.00



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

23,426



*Chris J. Sampson*  
20 November 1993

20' 0' 40' 80'  
Scale in feet

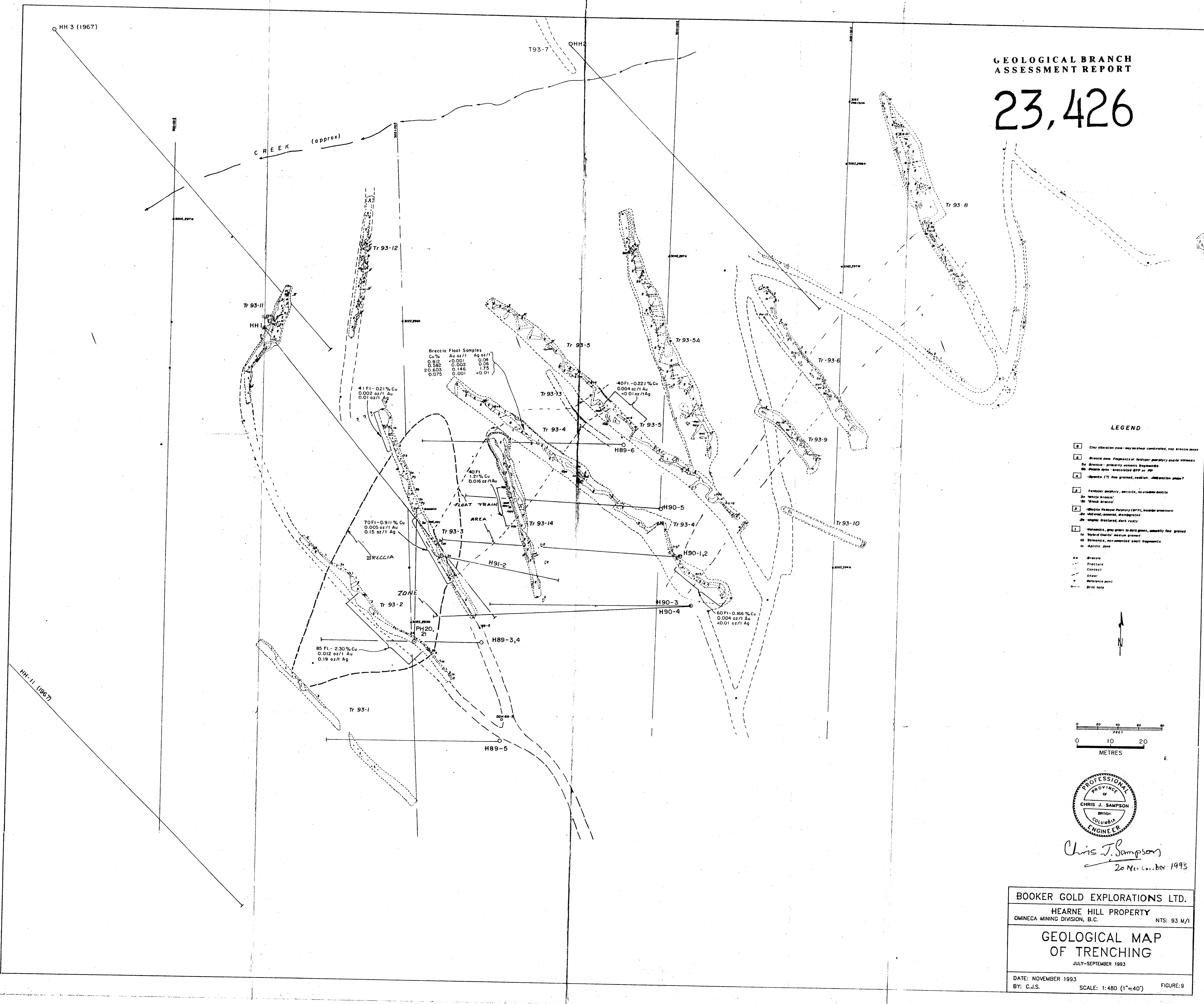
0 10 20 30  
Scale in metres

BOOKER GOLD EXPLORATIONS LTD.

HEARNE HILL PROPERTY  
OMINECA MINING DIVISION, B.C. NTS: 93 M/

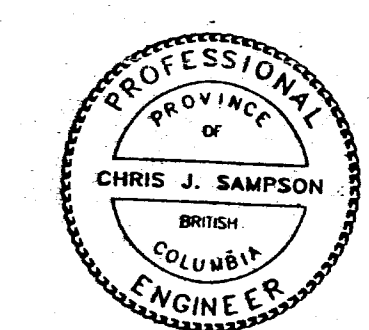
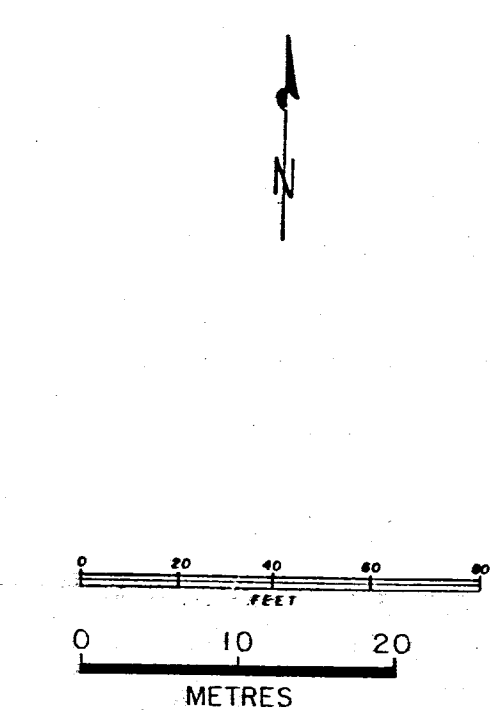
MAGNETOMETER SURVEY

MAGNETOMETER READINGS -58,000 nt



LEGEND

- 1 Clay alteration zone - may be shear controlled, esp. breccia zone
- 2 Breccia zone - fragments of felsic porphyry and/or volcanics
- 3 Breccia - primarily volcanic fragments
- 4 Breccia - primarily volcanic fragments
- 5 Breccia - primarily volcanic fragments
- 6 Breccia - primarily volcanic fragments
- 7 Breccia - primarily volcanic fragments
- 8 Breccia - primarily volcanic fragments
- 9 Breccia - primarily volcanic fragments
- 10 Breccia - primarily volcanic fragments
- 11 Breccia - primarily volcanic fragments
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- 45 Breccia - primarily volcanic fragments
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- 48 Breccia - primarily volcanic fragments
- 49 Breccia - primarily volcanic fragments
- 50 Breccia - primarily volcanic fragments



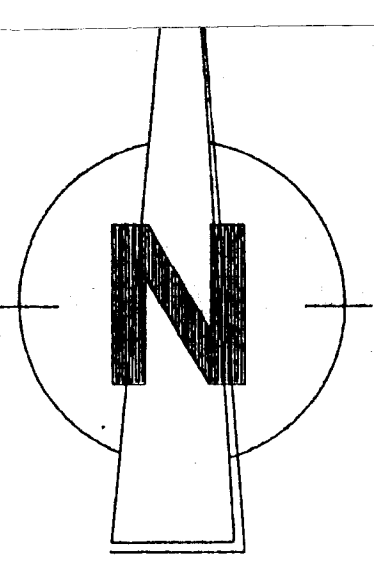
Chris J. Sampson  
20 November 1993

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HEARNE HILL PROPERTY  
OMINECA MINING DIVISION, B.C. NTS: 93 M/1

**GEOLOGICAL MAP  
OF TRENCHING**  
JULY-SEPTEMBER 1993

DATE: NOVEMBER 1993  
BY: C.J.S. SCALE: 1:480 (1"=40') FIGURE:9





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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TRO-BUTTLE (OLD CLAIM BOUNDARY)  
NORANDA

NEW BOOKER GOLD CLAIMS

TRO-BUTTLE (OLD CLAIM BOUNDARY)  
NORANDA

TIE LINE 345 N

NORANDA CAMP  
1968

BASE LINE 296 N

MORRISON LAKE

NORTH FAULT

BASE LINE 300 N

DISCOVERY FAULT

DISCOVERY

HEARNE FAULT

HEARNE 1 M.C.

HEARNE 2 M.C.

SOUTH FAULT

1968 CAMP

MORRISON

219999  
LCP  
220000

TO HATCHERY APM

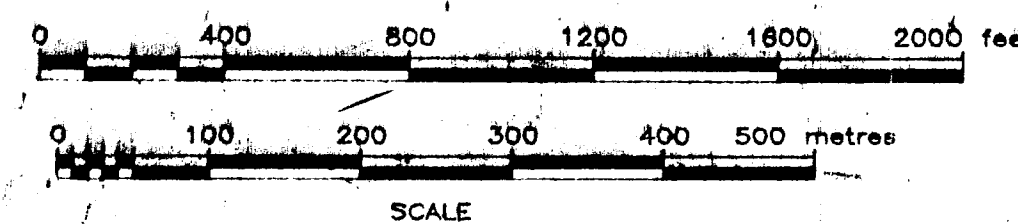


Chris J. Sampson  
20 November 1993

- LEGEND:
- 1 GRAYWACKE, ARGILLITE
  - 2 ANDESITE
  - 3 BEDDED TUFFS, MINOR LENSES OF ANDESITE AND SEDIMENTS
  - 4 MEDIUM TO FINE GRAINED DIORITE
  - 5 HYBRID DIORITE, SILICIFIED
  - 6 BIOTITE FELDSPAR PORPHYRY
  - 7 TECTONIC BRECCIA

- GEOLOGICAL CONTACT
- ~ FAULT
- HH-12 DRILL HOLE LOCATION

NOTE: "FROM ORIGINAL BY CANADIAN SUPERIOR EXPLORATIONS LTD.  
WITH ADDITIONS"

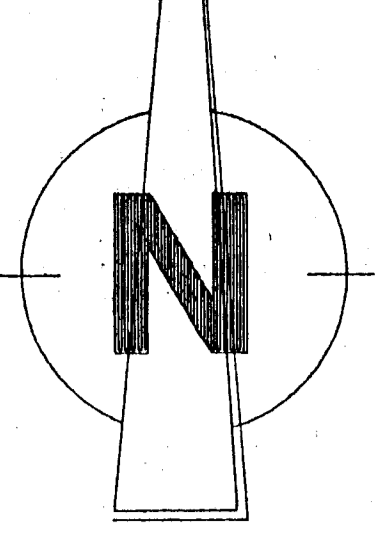


BOOKER GOLD EXPLORATIONS LTD.

HEARNE HILL PROPERTY  
OMINECA MINING DIVISION, B.C. NTS: 93 M/1

GEOLOGICAL  
COMPILATION MAP

DATE: DEC., 1992 Rev. NOV 1995  
BY: C.J.S. SCALE: 1:5,000 FIGURE: 6



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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TRO-BUTTLE (OLD CLAIM BOUNDARY)  
NORANDA

TRO-BUTTLE (OLD CLAIM BOUNDARY)  
NORANDA

NEW BOOKER GOLD CLAIMS

TIE LINE 345 N

ACCESS ROAD

L 284 E

NORANDA CAMP  
1988

BASE LINE 296 N

BASE LINE 300 N

MORRISON LAKE

HEARNE 1 M.C.

210000  
LCP  
LCP  
220000

HEARNE 2 M.C.

1988 CAMP

MORRISON

TIE LINE 255 N

L 280 E

L 288 E

TO HATCHERY ARM

L 276 E

L 284 E

L 292 E

L 296 E

L 300 E

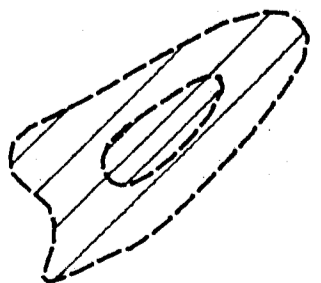
L 304 E

L 308 E

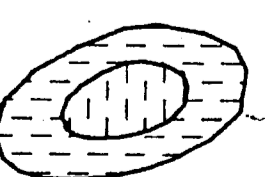
L 312 E

L 316 E

LEGEND:



20 AND 30 MILLISECOND CHARGEABILITY CONTOUR

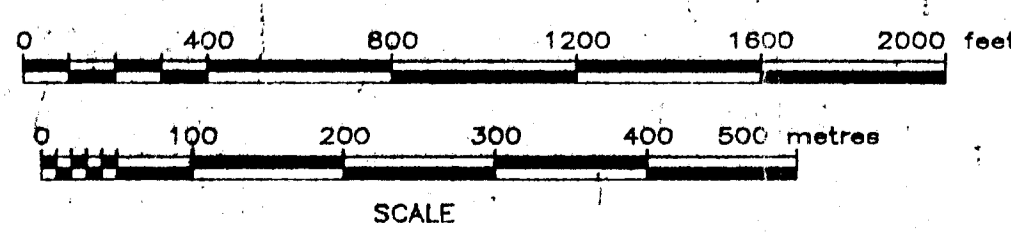


100 AND 400 ppm COPPER CONTOURS



FAULT

NOTE: "FROM ORIGINAL BY CANADIAN SUPERIOR EXPLORATIONS LTD. WITH ADDITIONS"



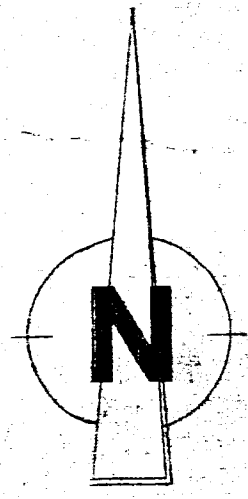
BOOKER GOLD EXPLORATIONS LTD.

HEARNE HILL PROPERTY  
OMINECA MINING DIVISION, B.C. NTS: 93 M/1

GEOPHYSICAL AND GEOCHEMICAL  
COMPIATION MAP

DATE: DEC., 1992 REV. NOV., 1993  
BY: C.J.S. SCALE: 1:5,000 FIGURE: 7



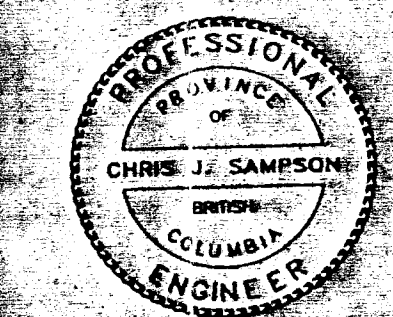
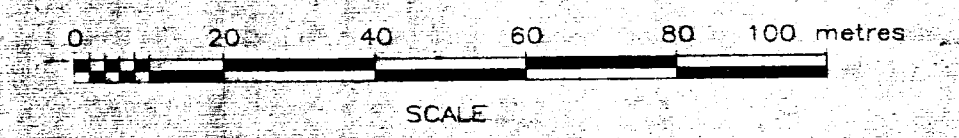


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

23,426

- LEGEND:
- JURASSIC - SINEMURIAN
  - 5 TELKWA FORMATION: ANDESITES (FLOWS AND TUFFS) (ORIGINALLY "HYBRID DIORITE")
  - EOCENE
  - 6 BABINE IGNEOUS SUITE BIOTITE FELDSPAR PORPHYRY (BFP)
  - 7 BRECCIA BODY
  - GEOLOGICAL CONTACT
  - ~ FAULT
  - TRENCH

- HH-11 (1967) TEXAS GULF DDH (1967)
- H90-5 NORANDA DDH (1989-90)
- 91-2 (025-45) DAVE CHAPMAN DDH (1991)
- PH10 BOOKER GOLD PERCUSSION HOLE (1993). SHOWING DEPTH DRILLED
- PH10 20-180, 404 Cu (ppm), 11 Au (ppb)
- CANADIAN SUPERIOR PERCUSSION HOLE



BOOKER GOLD EXPLORATIONS LTD.  
HEARNE HILL PROPERTY  
OMINECA MINING DIVISION, B.C. NTS: 93 M/1

GEOLOGY

DATE: JUNE 1993 REV. NOV. 21, 1993  
BY: C.J.S. SCALE: 1:1,000 FIGURE: 8

AREA OF FIGURE 9

