85-772-13978

ASSESSMENT REPORT

SAMBO #1

NTS 82G/1W

Latitude 49°11'N, Longitude 114°22'W
Fort Steele Mining Division

Owners: BP Minerals Ltd.
700 - 890 West Pender Street
Vancouver, B.C.
V6C 1K5

Operator: Selco-Division of BP Minerals Ltd.
700 - 890 West Pender Street
Vancouver, B.C.
V6C 1K5

Brian Grant
Senior Geologist

BPVR 85-13

October, 1985

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INTRODUCTION

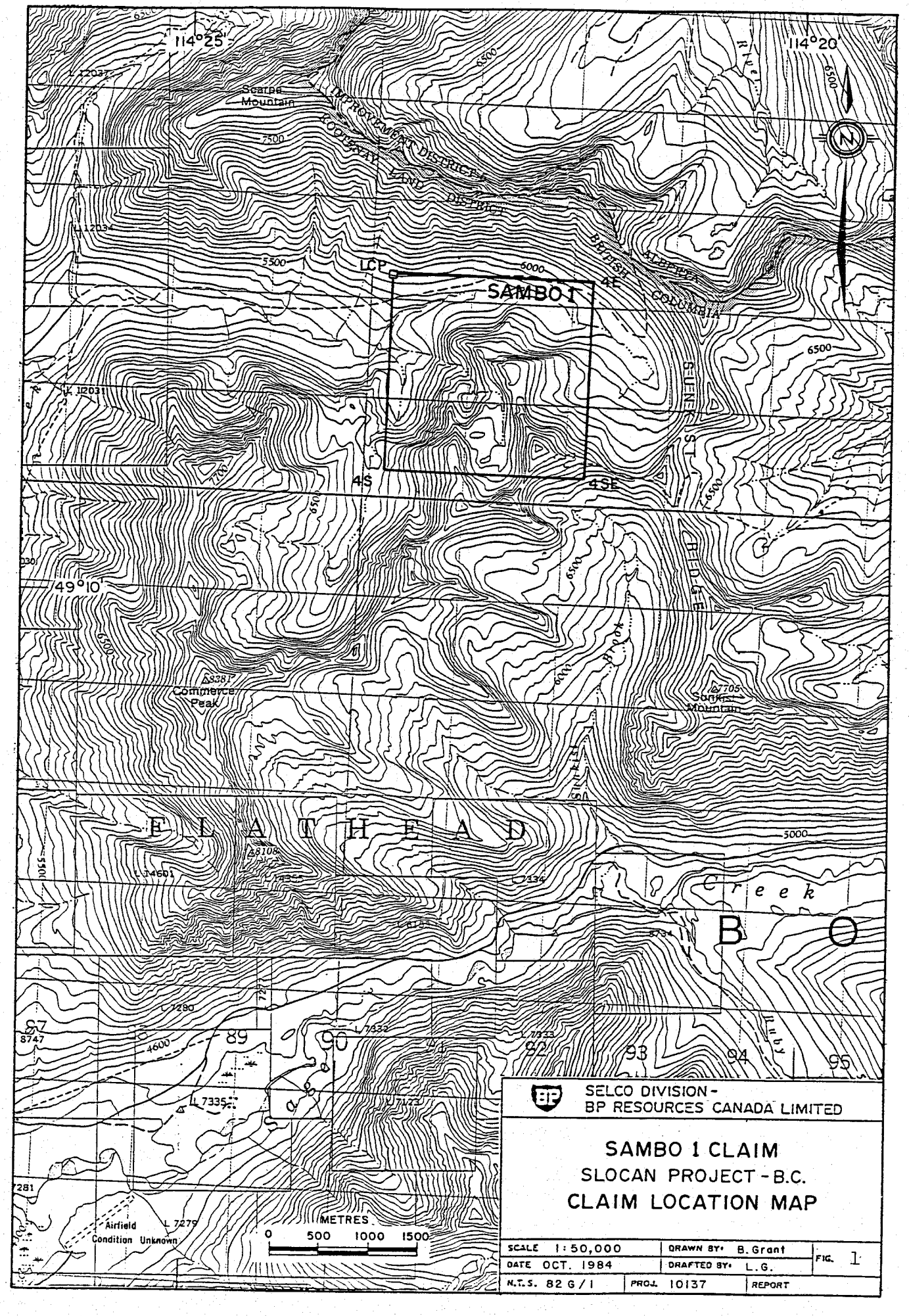
1. Location

The property is located at approximately 114°22' longitude and 49°11' latitude in the headwaters of Commerce Creek close to the BC - Alberta boundary and within the drainage basin of the Flathead River.

The topography within the claim is mountainous with an elevation change from about 5400 feet at the highest peak.

Access is from Highway #3, south of Fernie, via a network of logging access roads across Lodgepole and Harvey Creek drainages to the Flathead River then south along the west side of the Flathead to the Sage Creek logging road. A system of old mining/logging and seismic trails give access to the area of interest around Commerce and Sage Creeks. There is usually heavy logging activity in the area and safe travel requires the use of local logging radio frequencies.

Field crews working in the area must be accomodated by tent/trailer camps as the nearest commercial accomodation is in Fernie, some two hours driving time from the claim location.



SELCO DIVISION -
BP RESOURCES CANADA LIMITED

SAMBO 1 CLAIM
SLOCAN PROJECT - B.C.
CLAIM LOCATION MAP

SCALE 1:50,000	DRAWN BY: B. Grant	FIG. 1
DATE OCT. 1984	DRAFTED BY: L.G.	
N.T.S. 82 G/1	PROJ. 10137	REPORT

2. Claim Status

The Sambo 1 mineral claim, consisting of 16 units, was staked on the 4th and 5th of October, 1984 by Mr. Ken Murray of Nelson, B.C. acting as agent for BP MInerals Ltd. The LCP is located at the approximate UTM coordinates 5452250 North and 690200 East at about 5800 feet (1768 metres) elevation.

CLAIM	RECORD NO.	NO. OF UNITS	MINING DIVISION	NTS	RECORD DATE	PRESENT FILING	PRESENT EXPIRY DATE
SAMBO #1	2282	16	FORT STEELE	82G/1W	OCT 5/84	6 YRS.	1991

3. PREVIOUS WORK

Although the area has had relatively little exploration activity with regards to mineral exploration, the area around Commerce Peak was identified as having a potential for stratiform copper-silver and subsequently ground was staked by Kennco Explorations (Western) Ltd. in 1967. Falconbridge Nickel Mines acquired the rights to part of the same claims and carried out limited evaluation in 1969-70. Kintla Explorations Ltd. later carried out mapping and trenching of several showings in 1972 to about 1964. Little activity has taken place in the area since that time and BP - Selco staked the Sambo Claim in October of 1984 to follow up previous reports of anomalous copper and gold values within the sediments and intrusives on the Sambo Claim.

4. Summary of Work

BP - Selco, a division of BP Resources Canada Ltd., between about June 17 to June 30, 1985 carried out a program of geological mapping and rock chip sampling over the Sambo Claim to ascertain if economic values in copper or gold were present on the claims or if there was such economic potential in the area. Approximately 147 rock samples were collected and analysed by multi-element ICP plus, gold by Fire Assay and atomic absorption techniques. Geological mapping and sampling at 1:5000 scale was carried out with airphoto control and traverses were made throughout the claim area to evaluate the economic potential and to prepare a suitable geological basemap.

REGIONAL GEOLOGY

The stratigraphy of the Sambo Claims contains units of the Appekunny, Grinnell and Siyeh sedimentary formations with Purcell lavas and later stage dykes and sills of dioritic to syenitic composition which are believed to be of Cretaceous and/or tertiary in age. This sequence of sediments is part of the Lewis Series, which is the local equivalent of the Upper Purcell (Belt) Supergroup.

The units of the Lewis Series represent shallow water, subaerial marine argillites, siltstones, quartzites and carbonates with minor submarine lava flows and deeper water sediments. The depositional environment was one of a slowly subsiding basin on or adjacent to the flood plain of a large subsiding delta (Price 1964). This would give rise to conditions in which the rate of subsidence was close to the rate of new sediment deposition with the resulting stratigraphy reflecting both subaerial and below wave base features.

1. Appekunny Formation

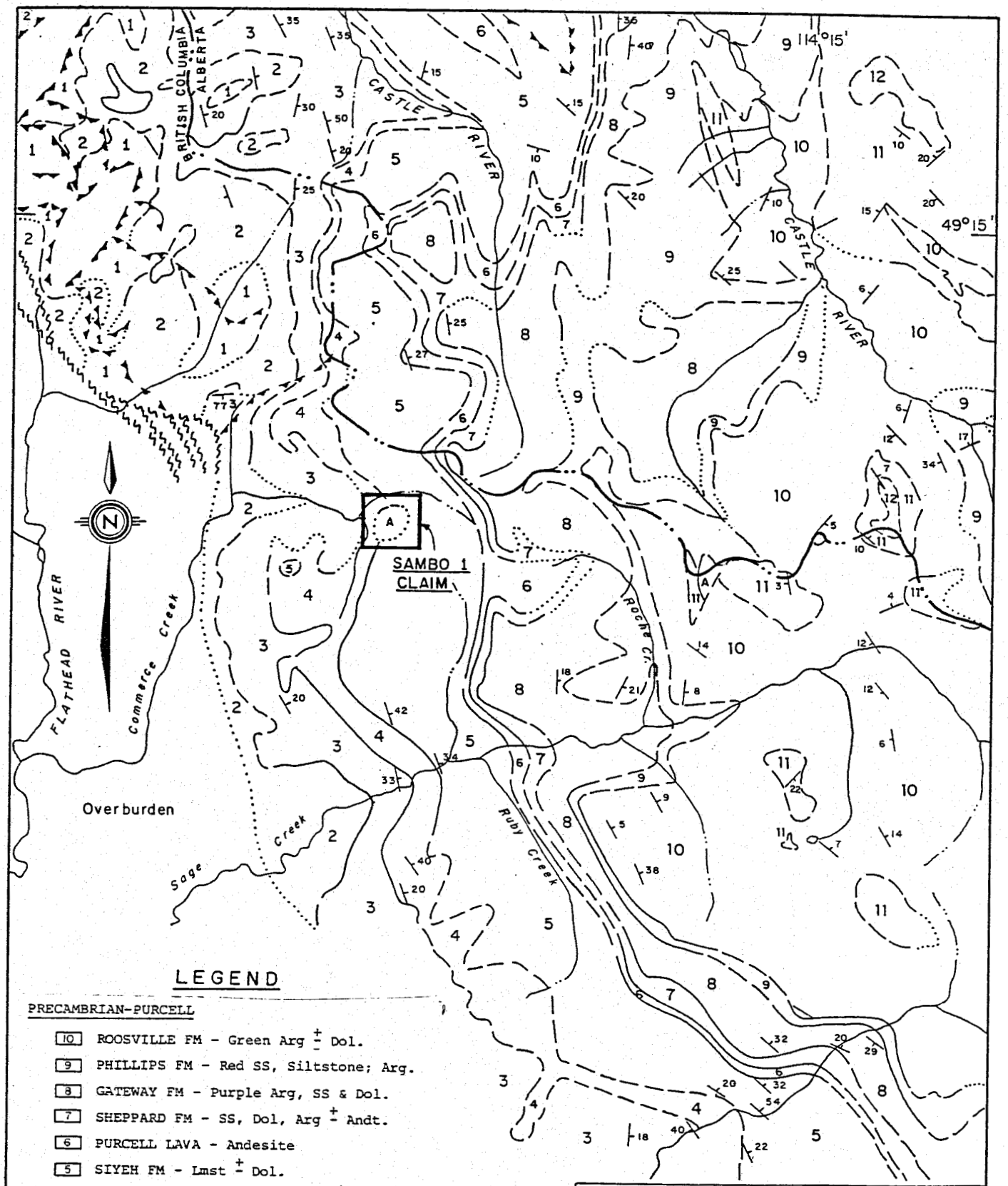
This formation is composed of a thick sequence of green and grey shales with sporadic dolomitic horizons. The base is assumed to be at the lower of two 50' thick, distinct white sandstone beds underlie the thick fissil shale sequence. Towards the top of the formation there is an increasing amount of thin, white, intercalated sandstone beds.

2. Grinnell Formation

The Grinnell is a thick, about 700 metres, sequence of red and green shales, marls and sandstones with sandstone dominating the upper part of the formation while red silts dominate the lower. The unit is believed to be of deltaic floodplain in origin with ripple marks, crossbedding and

ERA	PERIOD	FORMATION	LITHOLOGY	THICKNESS
			Erosional unconformity	
PALEOZOIC		Elko	Marine dolomite and dolomitic limestone	285-700
	Cambrian		Marine shale. siltstone, limestone	150-275
		Flathead	Marine sandstone, conglomeratic sandstone	25-150
			Erosional unconformity	
PRECAMBRIAN		Roosville	Green argillite, siltstone, sandstone, stromatolitic dolomite	3,500+
		Phillips	Red sandstone, siltstone, argillite	500-700
		Gateway (upper member)	Argillite, argillaceous siltstone, dolomite, dolomitic argillite and sandstone	1,150-3,000
		Sheppard (lower member of Gateway)	Quartzitic and dolomitic sandstone, dolomite, colitic, dolomite, argillite, siltstone, pillowed andesite	150-900
			Erosional unconformity in part	
	Purcell		Purcell Chloritised andesite and amygdaloidal andesite flows; pillowed andesite	0-600
		Siyeh	Limestone, dolomite, argillaceous and sandy limestone and dolomite, argillite, stromatolitic limestone	1,130-3,000
		Grinnell	Red argillite, sandstone, and siltstone	350-1,700
		Appekunny	Argillite, sandstone, and siltstone	1,500-2,000
		Altyn	Argillaceous limestone and dolomite, sandy dolomite, argillite, and stromatolitic dolomite	500-4,000
		Waterton	Limestone and dolomite, argillite, and argillaceous dolomite	1,500+

STRATIGRAPHY AFTER R. A. PRICE 1962.



LEGEND

PRECAMBRIAN-PURCELL

- [10] ROOSVILLE FM - Green Arg ± Dol.
- [9] PHILLIPS FM - Red SS, Siltstone; Arg.
- [8] GATEWAY FM - Purple Arg, SS & Dol.
- [7] SHEPPARD FM - SS, Dol, Arg ± Andt.
- [6] PURCELL LAVA - Andesite
- [5] SIYEH FM - Lmst ± Dol.
- [4] GRINNELL FM - Red Argillite ± SS
- [3] APPEKUNNY FM - Green Argillite ± SS
- [2] ALTYN FM - Argillaceous Lmst + Dolomite
- [1] WATERTON FM - Grey Lmst + Dolomite
- [A] Trachyte, Syenite, Diorite Intrusives

0 1 2 3 4 5 Km

NOTE: GEOLOGY After R.A. PRICE 1961, Paper 61-24

SELCO DIVISION - BP RESOURCES CANADA LIMITED

SAMBO I CLAIM AREA
SLOCAN PROJECT - B.C
REGIONAL GEOLOGY

SCALE 1 : 126,720	DRAWN BY: B. Grant	FIG.	2
DATE NOV. 1984	DRAFTED BY: L. G.		
N.T.S. 82 G / 1	PROJ. 10137	REPORT	

mudcracks evident locally.

3. Siyeh Formation

The basal Siyeh consists of about 300 to 500 metres of grey and black shales and dolomites overlain by about 150 metres of interbedded dolomites and sandstones. The dolomites commonly exhibit algal structures. The upper Siyeh consists of about 100 metres of well bedded fissile argillites and arenites with green and grey shales being the distinctive lithology.

4. Purcell Lavas

Approximately 100 metres of andesitic flows conformably overlie the Siyeh formation in the claim area. These flows are generally green to purple in colour and distinctively vesicular with vesicules filled with chlorite, quartz or carbonate.

5. Intrusives

The stratigraphy present within the claim has been intruded by numerous dykes and sills of a diorite to diabasic nature. Typically the contacts are sharp, usually cross-cut local stratigraphy and exhibit chilled margins and metamorphosed host rocks near the margins.

SURVEY OBJECTIVES AND TECHNIQUES

Historically, low values for copper and gold have been reported in the Commerce Peak area and it was the objective of this exploration program to confirm such previous reports and to ascertain if there was any potential for bulk tonnage gold or copper mineralization within the claim. Previous values were reported primarily associated with the syenitic (diorite) sills which contain pyrite, pyrrhotite and chalcopyrite and have controlled local sulphide enrichments within the host sedimentary stratigraphy.

Geological mapping traverses were carried out along most of the ridges and accessible terrain. Rock chip samples were collected at all mapping outcrop sites and were later analysed by ICP multi-element techniques. As the objective of the work was to evaluate the area for a bulk tonnage/low grade metal showing, local airphoto control was considered sufficient for mapping and sampling.

On traverses from Gossan Mountain SSW towards Andradite Mountain, NNW towards North Ridge, SE towards Sill Mountain and from Sill Mountain to Hopper Mountain a total of 94 rock chip samples were collected (TC-85-060 to 108 inclusive and NH-85-007 to 051

inclusive). These samples were mainly of dykes and sills cutting rocks of the Siyeh and Shepherd Formations.

On North Ridge increased intrusive activity is noted with numerous dykes and sills of syenite and related rocks in evidence. From the Commerce Creek road the rocks at the north end of North Ridge appear to be quite gossanous with an orangey brown colour. Given the amount of nearby intrusion material this area was thought to be a possble locus for porphyry type gold mineralization.

Three traverses were run over what appeared to be the gossanous zone and fifty-three samples were collected (TC-85-109 to 120 and NH-85-052 to 092 inclusive). The rocks in the "gossanous" area proved to be almost exclusively dolomites with occasional interbeds of quartzite, shale and limestone. The orangey brown colour of the rock was caused by the weathering of the dolomite. No significant mineralization was noted in the dolomites.

As the syenite intrusions were approached, however, intense skarnification was evident with garnet and epidote the prevalent alteration minerals. No economic minerals were noted in the skarns.

A sill of diorite intruded into the dolomite with bleaching above and below is noted at several localitites in the "gossanous" area. This sill is fairly distinctive in texture being relatively fine grained and as mentioned, is accompanied by bleaching. The repetition of this sill at different elevations, together with airphoto lineaments, suggests a series of down dropped blocks in this vicinity.

SURVEY RESULTS

No significant economic mineralization has been identified to date within the SAMBO #1 claim.

The best geochemical value for gold obtained was 40 ppb from sample TC-85-102 which was a sample of trachytic volcanics with minor disseminated sulphides.

The highest copper value of 2370 ppm copper was obtained from a pod of massive sulphide on a contact of diorite and limestone. The pod was 20 - 25 cm in size and it is therefore not of economic interest.

CONCLUSIONS AND RECOMMENDATIONS

The Sambo #1 claim has not been proven to host economic concentrations of base and/or precious metals. Anomalous metal

values returned from rock chip geochemical analysis indicate that significant metal values are always closely asociated with intrusive dykes or sills within the country rock and are of very limited size.

It is therefore concluded that anomalous metal values are due to the concentration of sulphides in or near the intrusives where they intersect sedimentary host horizons which contributed a favourable chemical environment for the concentration of sulphides during or immediately after the intrusive event.

No evidence was acquired by mapping and sampling that would indicate that a larger metalliferous, intrusive complex is unexposed beneath the sedimentary stratigraphy of the claim.

No further work is recommended at this time.

ITEMIZED COST STATEMENT

SAMBO CLAIM

MAPPING AND CHIP SAMPLING

Project Geologist - 12 man days @200/day	2400.00
Geologist - 12 man days @150/day	1800.00
Asistants - 24 man days @100/day	2400.00
	6600.00

ACCOMODATION, FOOD, TRUCK AND FUEL COSTS

Accomodation	150.00
Food Costs - June 17 - June 30	750.00
Truck and Fuel costs:	
- Ford 150 4 X 4 - 12 days @50/day	600.00
- Toyota 4 X 4 - 12 days @50.day	600.00
All Terrain cycle rental - 14 days @30/day	420.00
	2520.00

HELICOPTER COSTS

1 hour @500/hour	500.00
	500.00

FIELD SUPPLIES AND MISCELLANEOUS	150.00
	150.00

ANALYSIS COSTS

Chemex Labs, North Vancouver, B.C.	
147 rock chip samples - sample prep @2.50/sample	367.50
147 analyses (ICP & FA & AA) @18.25/sample	2682.75
	3050.25

ITEMIZED COST STATEMENT (Cont.)

MISCELLANEOUS COSTS (OFFICE AND ADMINSTRATION)

Project Planning, Supervision and Evaluation	
- Senior Geologist - 5 days - salary and benefits, original airphotos, enlargements and maps.	1250.00
- Report writing, map preparation, data analysis. Project Geologist - 4 days @200/day	800.00
- Drafting and typing services 3 days @125/day	375.00
- Map reproduction, text reproduction, binding, etc.	100.00
- Office supplies, postage, telephone	100.00
	2625.00
TOTAL:	15445.25

STATEMENT OF QUALIFICATIONS

I, Brian Grant, of 1408 Highland Drive, Castlegar, British Columbia, hereby certify that:

1) I am a geologist residing at the above address.

2) I am a graduate of Memorial University of Newfoundland in 1970 and have been practising my profession since that time.

3) I am a Fellow of the Geological Survey of Canada and I am registered as a member of the Association of Professional Engineers of the Province of Saskatchewan.

4) I directed the geological work outlined in this report and carried out by Messrs. T. Carpenter and N. Hughes and I attest that each is a qualified geologist capable of carrying out such work and that the information presented is correct within reasonable limits of error.

5) I hold no interest, direct or indirect, in the Sambo 1 Claim which is the subject of this report.

Brian Grant
Castlegar, British Columbia

October, 1985

APPENDIX I

GEOLOGICAL FIELD NOTES

SAMBO FIELD NOTES

Wednesday, June 19, 1985

Traverse to top of Gossan Mountain. Top of mountain consists of silicified sediments probably altered augillites.

Strike $352^{\circ}/25^{\circ}$E dip overlying sediment outcrop is found intrusive material comprising feldspar (plagioclase) phenos in an aphanitic felsic matrix with 1-5% pyrite. Intrusive material is heavily hematized.

Altered sediments are dark grey in fresh surface and med grey in weathered surface. TC-85-060 chip sample of intrusive.

Intrusive material may represent a dyke crosscutting the sediments.

Dyke appears to trend $\approx 090^{\circ}$. Downhill occurs relatively fresh intrusive with low to weak hematite alt.

Friday, June 21, 1985

Traverse from Gossan Mountain along ridge to Andredite Mountain.

TC-85-061: 0+50m S along traverse. Brownish red well bedded siltstone. Scattered hematized boulders in area have probably come from sill on top of Gossan Mountain.

$330^{\circ}/23^{\circ}$ dip and strike.

TC-85-062: 0+80mS, 1m wide zone of hematized rock. Pale green siliceous rock in fresh surface with 3% fine grained pyrite. No outcrop evident.

Fresh fine grained siliceous rubble in area. Almost rhyolitic in appearance. May represent dike material or silicified country rock.

TC-85-063: 0+95S. Dike containing feldspar phenos to 5-7mm. Probable diorite dike. Locally well hematized.

Trends $\approx 300^{\circ}/90^{\circ}$ dip. Feldspars in fine grained felsic matrix. Medium grey in colour. Contains 3-5% fine grained pyrite.

TC-85-064: 1+60S on cliff face. 4m thick sill of dioritic material. Feldspar and phenos to 5mm in fine grained matrix.

Contains 7-10% pyrite sill contains xenoliths of pale green mudstone. Within overlying mudstone, dike material is evident along fractures.

Similar material is evident downslope to the SE but does not appear to cut the ridge and may be offset or truncated at this point.

Sill contains near vertical zonation locally of course grained material bounded by green chloritic material which may represent a cooling feature.

The sill does not quite cut through a slight promontory at this point which trends SW.

Some limestone evident in country rocks.

At ≈2+28S claim line running E-W.

TC-85-065: 2+50S, hematized material cutting pale green siltstones and augillites. Similar to TC-85-064 in composition. May be same sill.

Pale grey limestone occurs from 2+50 to 3+10S. At 3+00S limestone cut by diorite.

TC-85-066: Consisting of feldspar and hornblende phenos in a grey matrix. Weathers pale grey with a slight limonite staining.

TC-85-067: At 3+13S, extending from 3+12 to 3+14S. Sill of feldspar rich material with fine grained matrix and 3% mafics 60-70% feldspar. Sample at 3+00S may be dyke originating from this sill.

Overlain by bed of siltstone and underlain by limestone.

Shearing evident beneath sill. Limestone locally pinkish in colour.

Bedding $225^{\circ}/20^{\circ}$SE dip. From 3+23mS, siltstone and mudstone underlain by limestone.

At 3+60S minor (0.3m) sill of dioritic material.

TC-85-068: Diorite sill <1 m in thickness. Minor hematitic alteration but relatively unaltered. Similar in composition and texture to previous sample.

Intrudes siltstone at this point.

At 4+44S, southern edge of gap in ridge. Outcrop of dioritic material. However, difficult to tell whether dike or sill.

TC-85-069: Minor hematization locally at this point.

TC-85-070: From 4+63 to 4+77m, hematized dioritic rock similar in composition to material at 4+44S except contains 5% pyrite.

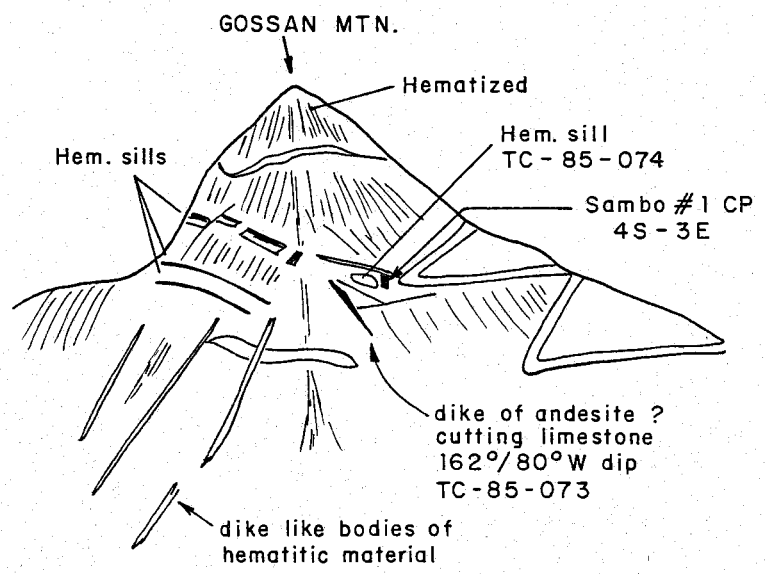
Dioritic material runs to 4+90mS.

At 5+32S, minor dike or sill of trachyte <1 m in thickness. Not sampled.

At 6+34S on north slope of Andradite Mountain, Trachyte Dyke cutting limestone at 090°/75°S dip 1m wide. Heavily hematized.

TC-85-071: Bedding in lst 177°/018°E. Dyke cuts into overlying sill of similar composition. Sampled as TC-85-072.

TC-85-73: See Sketch



VIEW FROM NORTH SLOPE OF ANDRADITE MTN.
LOOKING TOWARDS GOSSAN MTN.

TC-85-074: See sketch. Probable continuation of sill seen in cliff face. Heavily hematized cut by narrow dike (20 cm) of diabase trending 120°/90° dip.

Upper part of sill is hematized and contains 3-5% pyrite.

TC-85-075: 0.3m thick sill of trachytic material on west end of ridge joining Sill Mountain and Gossan Mountain. Contains well developed feldspar and hornblende phenocrysts as well as 3-5% pyrite.

TC-85-076: 0.6m sill slightly lower in the stratigraphic sequence. Stratigraphically, both sills are about 4m apart. Both are found in a sequence of dark grey siltstone and mudstone and both pinch and swell to some degree.

TC-85-077: Sill similar to TC-85-076 in composition and thickness. Irregular contact with overlying siltstone.

TC-85-078: Sample of locally hematitic siltstones and mudstones between TC-85-076 and 077. Bedding at $317^{o}/16^{o}$E dip.

TC-85-079: Limonitic laminated siltstone. Light brown, fine grained rock. Rubble from ridge top.

Saturday, June 22, 1985

TC-85-080: Sill material locally crosscuts bedding Dioritic to Syenitic composition.

Contains 10-15% fine grained pyrite and pyrrhotite. Heavily hematized.

TC-85-081: Heavily hematized sediments immediately above sill. Locally silicified and altered to pale green colour. Away from sill becomes reddish shale.

S & D $340^{o}/16^{o}$E

TC-85-082: Hematized sediments on north slope below above sill.

TC-85-083: Very well hematized diorite/syenite material below sediments and above snow slope. Contains hornblende laths to 1cm. 1m fine grained pale green matrix. Feldspar phenos to 5mm. Contains 10-15% disseminated pyrite and pyrrhotite. Possible dike? Limited outcrop.

TC-85-084: Pale green shale at head of cirque on north side of Gossan Mountain.

TC-85-085: Limestone in fault contact (?) with diorite/syenite.

Contains brownish material on one fracture which may be sphalerite sampled.

TC-85-086: Massive sulphide pod on contact between diorite and limestone.

Contains 70-75% pyrite in a fine grained, dark green matrix. Probable skarn mineralization. Pod measures 20-25 cm in width. Fault at $140^{o}/80^{o}$SW.

TC-85-087: Diorite/Syenite sill contains blebs of pyrite and pyrrhotite to 1-2 mm in size which make up ≈7-10% if rock.

TC-85-088: Hematized shale and siltstone from above sill. Pyrite along fractures.

TC-85-089: Diorite/Syenite sill. Similar to sample TC-85-087.

TC-85-090: Hematized sediments from pod within bifurcating diorite sill.

TC-85-091: Diorite/Syenite sill as at TC-85-089 and 087.

TC-85-092: Diorite dyke. Contains 7-10% pyrite disseminations along fractures.

TC-85-093: Poorly exposed outcrop of diorite contains phenos of biotite similar to previous samples. Contains 5-10% sulphides.

TC-85-094: Poorly exposed outcrop of diorite. Contains 5-6% hornblende laths and very minor sulphides (1.3%).

TC-85-095: Thick (>2 m) sill of diorite. Contains 5.7% pyrite and is well hematized. Well developed feldspar phenos to 1.2 cm. Locally manganese stained zone 1m wide runs from top to bottom of sill, is parallel to jointing and contains oxidized pyrite.

Biotitic medium grey matrix.

Sunday, June 23, 1985

Traverse along Sunkist Ridge from road between Sill Mountain and Sunkist Ridge.

0+85m volcanic rubble. Aphanitic dark grey basaltic rock.

0+90m volcanic outcrop. As above sampled.

TC-85-096

TC-85-097: 1+46m. Small outcrop of diorite, 30% feldspar and 5-7% hornblende laths to 1cm in aphanitic medium grey matrix 1% sulphides weathers to light grey colour.

1+92 to 1+99m grid with local silt interbeds. Fragments to 1/16 inch including quartz and feldspar. Appears to be volcanically deviated.

TC-85-098: 1+99 to 2+39m. Snow cover 2+39 to 2+49m. Basaltic sill 5m in thickness. Most of sill composed of fine grained dark green material. Upper km of sill is vesicular with carbonate filling overlain by light brown well laminated siltstone.

TC-85-099: 2+49m to cliff of dolomitic siltstone. Bedding $004^{\circ}/20^{\circ}E$ dip. Thinly laminated pale brown in weatherd surface. Light green in fresh surface with splotches of hematized material. Greenish in colour immediately above contact with sill.

TC-85-100: Contains occasional pyrite cube.

At 3+02m just before small kroll on ridge.

TC-85-101: Sill of greenish andesitic material. Limy contains blebs of chloritic material as well as pinkish material. Sill is 0.3m in thickness.

Bedding $004^{\circ}/018^{\circ}E$ dip.

At 3+23m, red shale bed within dolomite.

At 7+91m from stained shale overlain by 2m thick dolomite.

Above dolomite horizon, the shales vary between medium to light green to red in colour.

1,019m to top of mountain.

TC-85-107: Black, fine grained rock. Possible basalt. Contains fine grained pyrite.

TC-85-108: Similar to previous sample. Contains vesicle fillings of fine grained chloritic material. May be down dip extension of previous outcrop.

Thursday, June 27, 1985

TC-85-109: Dolomite above small lake in Gossan Mountain cirque. S & D $084^{\circ}/30^{\circ}S$. Silty medium to dark grey in fresh surace. Weathers to pale brown colour. Contains intervals of shaly material.

Photo 10, Roll 2. Fold in dolomite 100m NW of sample location TC-85-109.

Above large turn are vertically dipping dolomite beds trending 038°.

About 0.5m above shale unit occurs a sill of pink trachytic material with well developed potassium feldspar phenos to 7m.

The sill is 0.3m in thickness parallels the bedding but localy cuts across bedding for 1m.

TC-85-102: More shale is evident above the red shale unit than below indicating a possible change in lithology.

At 3+35m TC-85-103 on north side of small kroll Diorite dike. Composed of feldspar and hornblende phenos in a dark brown matrix. 1% disseminated sulphides.

3+41m top of kroll

Red shale forms top of Kroll.

From ≈4+50m predominantly red sediments with occasional dolomitic horizons.

5+45m, rubble of sill material consisting of pink feldspars and laths of white material (plagioclase?) in fine grained pinkish matrix. Trachyte TC-85-104.

At 5+83m, sandstone bed.

From 6+15m to 6+20m, grey fine grained dirty limestone.

6+27m TC-85-105. Limonitically altered diorite comprises greenish altered feldspars in brown matrix with clots of limonite. Overlain to south by grey shale.

6+40m to 6+84m TC-85-106. Hand sample only.

Fine grained basaltic rock with fine grained feldspar phenos to 2mm.

From 6+84m maroon coloured shales.

At 7+53m, dolomite horizon within shale bed.

Photo 11. Highly contorted bedding overlain by underformed dolomite beds. Possibly indicative of faulting along bedding plane.

TC-85-110: Dolomite interbedded with shaley limestone and clastic material made up of cobbles and rip-up clasts of dolomite.

Near photo 11 location, bedding 071°/27°SE.

TC-85-111: Dolomitic limestone. Medium grey and fine grained in fresh surface. Weathers to light brown colour. No attitudes available.

TC-85-112: Similar to above 119°/34°S dip contains shaley lst bed as well as limestone bed with algal material.

TC-85-113: Bleached, sheared dolomite sitting above what may be diorite sill. Lowest part of outcrop appears to be fine grained dioritic material.

Overlain by brownish, weathering dolomite.

TC-85-114: Fine grained dioritic sill. Dark grey in weathered surface. Bleached upper and lower contacts. No sulphides evident.

TC-85-115: Dolomite. Dark grey in fresh surface pale brown weathering. Carbonate healed fractures.

TC-85-116: Dolomite with narrow interbeds of limestone and shale.

Stromatolitic material evident in limestone horizons.

TC-85-119: Dark brown weathering dolomite. Dark grey in fresh surface. Locally folded.

Diorite sill at location shown on air photo. Similar to upper sill. Dolomite bleached white above and below sill which measures 6-8m in thickness.

TC-85-118: Dolomite. Light brown weathering, massive outcrop. At this location contains 10cm medium grained grey quartzite bed.

Photo. Waldy at location 118

TC-85-119: Dolomite with interbedded shale units to 25cm. Well bedded at o31°/28°E dip.

TC-85-120: Interbedded red shale, green shale and quartzite. Possible Guinnell Fermium which underlies dolomites. Quartzites occasionally contain rip-up clasts of red shale.

Saturday, June 29, 1985 RECON BARNES, RANCH AREA

TC-85-121: Limy siltstone. Beige in weathered surface light grey in fresh surface cut by cylinders of pinkish material. Possible burrows?

Jointed at 098°/90° dip uphill and, just south of west of this location are found sandstone beds containing cobbles of what appears to be granite. These "cobbles" are pink and white in colour and appear to be slightly recrystallized.

Uphill from this outcrop occurs quartzite bed trending 041°/036°SE.

TC-85-122: Quartzite. Light grey in fresh surface, brownish grey in weathered surface.

TC-85-123: Quartzite. Locally stained hematite red grey to pale brown in fresh surface. Well fractured.

TC-85-124: Quartzite. Hematitic fractures light grey to light brown in weathered surface. Spalling evident in outcrop.

Bedded at 160°/80°W dip.

TC-85-125: Fossiliferous sandstone light grey in fresh surface and dark grey in weathered surface. Slightly limy. Contains fragments of brachiopods.

T.C. & N.H. June 19, 1985

Hike up to Gossan Mountain for general reconnaissance.

Photo #19: Camp lake on the SAMBO claims.

Photo #20: Looking East from Gossan Mountain.

Photo #21: Looking south from Gossan Mountain.

Photo #22, 23: Looking north from Gossan Mountain.

Photo #24, 25: Looking SW from Gossan Mountain.

P.B, N.H. June 20, 1985

Looking at Calc-Alkaline intrusive between Harvey Creek and Shepp Creek. Rainy day.

Trench #1: Furthest trench down road. Outcrop of L $69^{\circ}/43^{\circ}$SE. Thinly interbedded dolomitic limestone with variable carbon content and carbonate content, ranging from small nodules of coal to carbonaceous siltstone to black limestone to white fine-grained buff weathering dolmitic limestone.

No apparent mineralization fissility increases with carbon content.

Road cut between trench #1 and #2 highly fissile carbonaceous locally calcareous Argillite.

Trench #2: Dominantly grey to black dolomitic limestone with ~15% Ca stringers throughout. Unit is semi-massive to moderate fissile. The unit is locally interbedded with very thin, highly cabonaceous horizons and a thin horizon of a highly chaotic material which was sampled.

NH-85-001: Gossan unit appears to be conformable with the surrounding sediments. The unit is 10cm wide, highly vesicular with what appears to be tourmaline rosettes in an aphanitic ground mass that also contains fragments of aphanitic material. The material is dark coloured purple to black and weathers rusty. The unit appears to be non-calcareous.

100m up the road from trench #2, outcrop from road cut grey to maroon dolomitic sandstone siltstone.

Trench #3: Top of Hill

Highly fissile black shale at the E end grading into black graphitic limestone at the W end. Transition zone is obscured by overburden and may be faulted.

Shale beds dip evenly at $\angle 24^{\circ}/30^{\circ}$SE.

Limestone unit contains pods of brown weathering shale that occupy lense shaped regions within the limestone. Limestone is semi-massive and bedding is hard to define.

NH-85-002: Subcrop siltstone, fine-grained grey weakly fissile. Subcrop in centre of road just below (within 2m) contact with Calc-Alkaline intrusive.

NH-85-003: Trachytic syenite ~75% coarse-grained (up to 1cm long). Euhedral K-spar laths. ~5% medium - fine-grained - peribole as subhedral phenocrysts. ~1% medium-grained Py cubes disseminate locally throughout.

The K-spar laths are crudely aligned in one dimension.

All of the above are enclosed in a grey aphanitic ground mass comprising ~20% of the rocks value.

Locally, moderately stained with hematite.

NH-85-004: Syenite. Sample from outcrop further into the stock.

50% coarse-grained K-spar laths.

7% medium-grained subhedral periboles.

<1% magnetite in a fine-grained matrix consisting of K-spar and peribole and a hard transparent material that may be quartz (?).

K-spar laths are almost randomly oriented. Locally, feldspar crystals are rhombic and display concentric zoning.

NH-85-005: Altered syenite.

Syenite has undergone fracturing and fairly intense alteration. The alteration assemblage includes epidote, kaolinite, and presumably sericite as the plagioclase becomes saussuritized. Epidote exists along fracture planes and as a replacement of the mafic minerals.

Original Syenite is more equigranular than 003 and 004.

Outcrop is faulted in many locations with similar fault attitudes.


184°/47°W


99°/54°S - prominant joint

NH-85-006: Siltstone-brown, buff weathering thinly fissile to thickly (15cm) 50m down road from last syenite outcrop.


18°/45°E

P.B., N.H. June 21, 1985

Sampling along ridge between Gossan Mountain and Sill Mountain. Samples were taken along section cutting the Ridge every 50m starting from the peak of Gossan Mountain.

Take widths off map #11, report 5070.

NH-85-007: Diorite porphyry - silicified.

Moderately hematized.

~2% Py

NH-85-008: Silicified siltstone.

NH-85-009: Silicified siltstone.

Brown with trace Py. Locally mildly hematized, locally greenish.

NH-85-010: Locally meta to hornfels. Diorite porphyry - moderately silicified. Locally heavily iron stained with limonite and hematite. ~5% Py up to 15% Py.

NH-85-011: Same as 010.

NH-85-012: Hornfels, (silicified siltstone) midly stained with hematite trace of Py.

NH-85-013: Thin dyke offshoot (20cm wide). Diorite porphyry ~15% Py. Locally, highly silicified. Heavily stained with limonite, hematite, and minor Jarosite.

NH-85-014: Hornfels to quartzite. Dark brown to maroon colour trace of Py.

172°/26°E

NH-85-015: Thin dyke 15-20cm medium-grained dyke of micro pegmatite (monzonite) containing:

40% K-spar
40-50% plagioclase
10% quartz (?)
2% muscovite in samll books
2% magnetite medium-grained, disseminted throughout

120°/80°E

Appears to display quasi graphic texture.

NH-85-016: Hornfels (?) - silicified siltstone.

Dark brown to maroon locally, thinly banded.

158o/28oNE

Locally, these rocks are cut by very thin 1-2cm wide micro pegmatites. Parallel to the dyke sampled.

NH-85-017: Siliceous siltstone grey green thinly bedded semi-massive. Blotchy fracturing. Mildly iron stained - minor, very thin micro reg strs.

158°/18°NE

NH-85-018: Siliceous siltstone to hornfels thinly banded.

Weakly Fe stained.

NH-85-019: Dioritic sill (?) (porphyry). Locally highly stained with hematite, geothite and limonite contacts both confrom to and locally crystal cut bedding. 5% Py dissemination throughout. Locally contains ultra coarse grained felds (up to 2cm long).

NH-85-020: Hornfels - siliceous siltsone. Dark brown to maroon to green to white massive, but thinly banded.

NH-85-021: Dioritic Dyke. Crosscuts bedding medium-grained with coarse-grained phenos and feldspar. Heavily iron stained contains from 1% - 10% Py.

NH-85-022: Hornfels. Brown maroon to black massive fine-grained siliceous trace of Py.

NH-85-023: Fe stained sample. Dioritic sill. Heavily Fe stained (black). 1-5% Py. Sample was taken from within NH-85-024 sample length.

NH-85-024: Dioritic sill (?) (Dyke?). Locally heavily iron stained contains from 1-5% Py. Near old Sample No. 29382, 29385.

NH-85-025: Hornfels siliceous, black weakly iron stained thinly banded.

$/_{178^{\circ}/20^{\circ}E}$

P.B., N.H. June 22, 1985
Traverse on N ridge of Gossan Mountain.

65m along Ridge from peak.

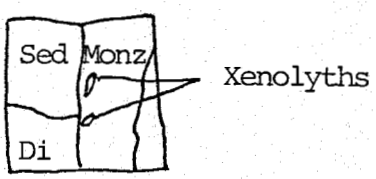
NH-85-026: Dioritic sill from .5m to 2m wide. Moderately stained with hematite and limonite upper contact is locally irregular. Unit contains ~2% Py. Unit is porpheritic with local very coarse-grained phenos of plagioclase (up to 1cm long) but dominantly medium-grained 3mm plagioclase laths in a fine-grained grey ground mass hosted in hornfels.

NH-85-027: Quartz monzonite dyke crosscuts sediments and diorite dyke.

40% K-spar
+ 40% plagioclase
15% quartz
2% magnetite

This rock is medium-grained equigranular and fresh in appearance.

Photo #31: Quartz monzonite cross cutting sediments and Diorite.



75m down ridge from peak.

NH-85-028: Diorite sill ~2m thick. Medium to coarse-grained with some very coarse-grained phenocrysts of plagioclase.

~60% plagioclose 10% very coarse-grained, 50% medium-grained.
~15% quartz
~15% pyroxene
~2% magnetite

Very weakly iron stained and fresh. Hosted in bluegreen and maroon fine-grained, recrystalized, siliceous sediments.

100m down Ridge.

NH-85-029 Diorite sill - medium-grained. Variably altered, locally silicified. Contains up to 2% magnetite. trace Py sill has a conformable trip and a highly irregular base. The sill also contains many small islands of sediment that have similar strikes and dips from the surrounding sediments. 5m thick.

110m downslope from peak.

$126^{o}/56^{o}$NE bedding of fine-grained, recrystalized, siliceous sediments.

180m down Ridge from peak.

NH-84-030: Diorite Dyke appears to be the top of a dyke that forms the Ridge for 10^{5} of metre down slope. Diorite is highly variable in composition and texture. Ranging from fine-grained equigranular to coarse-grained porphesitic with a high cone of mafic minerals. Magnetite is present throughout locally up to 2%. Diorite is locally crosscut by thin quartz monzonite dykes (up to 10cm wide). An average brown mineral occurs throughout as an accessory mineral but is too soft to be sphere.

NH-85-031: (20cm wide) Quartz monzonite dyke K-spar content varies along strike.

40% plagioclase
40% K-spar
20% quartz
2-5% magnetite

Has an abrupt contact with sediments and doesn't appear to have had any contact meta affects.

NH-85-032: Diorite dyke sample taken of pervasively iron stained material which is from the same dyke as NH-84-030.

NH-85-033: Andesite dyke crosscuts diorite dyke. 30% plagioclase phenocrysts, 15% peribole in a grey aphanitic ground mass.

The unit is locally iron stained and has undergone minor chloritic alteration.

220m down slope, sediments become limy siltstones and green limestones and marbles which are very coarse-grained near contacts with surrounding dykes. Locally limestone contains up to 10% quartz grits.

The unit is locally interbedded with thin non-limy green siltstones.

250m down slope.

NH-85-034: Trachytic syenite 80% very coarse-grained K-spar laths. 5% hornblende crystals in a grey ground mass. This unit crosscuts stratigraphy and is hosted in a non-limy green siltstone.

260m.

NH-85-035: Pink rock (true granite) with coarse-grained K-spar phenocrysts and euhedral hexagonal. 2 rhombic masses of mica replacing Hb and maybe some feldspar. This rock locally appears to be almost 80% K-spar with 20% dark mica (bronze to black) as a replacement material. The rock locally contains up to 30% fine-grained quartz.

265 m.

Green siliceous fine-grained siltstone trace Py.

270m.

NH-85-036: Dioritic sill? This may be the equivalent of 030 on a down dip exposure(?). Medium-grained pink to grey.

50% plagioclase
20% K-spar
10% quartz
10% peribole

Grey weathering.

Photos 33 and 34:

From N Ridge Gossan looking back at peak and Andradite Mountain.

280m.

Mildly calcareous thinly banded quartzite and siliceous siltstone with two thin true granite dykes (20cm wide) oriented at $85^{\circ}/90^{\circ}$ and $120^{\circ}/83^{\circ}$SW. Sediments are oriented at $140^{\circ}/40^{\circ}$NE.

300m.

NH-85-037: Diorite Dyke. Sediment contact with Diorite parallels the Ridge crest. Sediments are green siliceous siltstone that have steepened $96^{\circ}/66^{\circ}$NE substantially from the last station.

300 - 350m.

NH-85-038: Diorite massive dyke. Porpheritic with large (2cm long) plagioclase crystals in a medium-grained groundmass of plagioclase, K-spar and hornblende and tr magnetite.

75% plagioclase
15% K-spar
5% quartz
5% hornblende

P.B., N.H. June 23, 1985

Start traverse on Ridge between Gossan and Sill Mountain, proceed towards Sill Mountain.

NH-85-039: Diorite porphyry. 20-30% plagioclase phenocrysts. 20% peribole phenocrysts and 50-60% maroon to green, aphanitic ground mass.

All phenocrysts are subhedral with rounded corners.

NH-85-040: Siliceous siltstone dark grey to black weathered surface stained with limonite and minor hematite. ~2% Py.

$165^{\circ}/30^{\circ}$NE

NH-85-041: 3m from base of flows, Basaltic Andesite. Very fine-grained with a high degree of variation in texture and composition. Locally near the base, the unit is silicified and contains up to 10% Py.

Locally within vesicles, there are quartz open space fillings and Py.

The unit locally contains rip up clasts of the underlying siltstones.

Above the sample intervals there is a thick sequence of these flow rocks that are highly amydaloidal with calcite, quartz and maybe some zeolites present.

NH-84-042: (3m wide). Basaltic Andesite medium-grained. Weathers light grey. Sample was taken from just below contact with Sill Mountain diorite sill unit. Locally contains small islands of siltstone.

NH-84-043: (5m wide). Diorite bleached area just above contact with the purcell lavas.

Weakly iron stained throughout with local traces of Mg staining.

NH-85-044: (Thin fractured zone, .5m wide.) Diorite moderately fractured. Moderately iron stained with hematite and limonite. No visible sulphides.

Fracture $\not$ 88°/86°N

NH-85-045: (K-spar alteration zone peripheral to fractured zone, but fairly pervasive throughout.)

Pink rock.

Diorite with moderately secondary K-spar in the ground mass and as thin K-spar veins. This unit also contains epidote smears on fractures and epidote replacements of mafic minerals.

Pink K-spar appears to be replacing some of the large plagioclase phenocrysts. The whole rock is pink.

K-spar alteration appears to decrease roughly up slope.

NH-85-046: "Diabase" Dyke (1m wide) fine-grained dark intrusive locally heavily stained with hematite and limonite and Mg stain.

Peak of Sill Mountain consits of the same Diorite.

Traverse from sill peak towards Sunkist Ridge.

End of road 047, 048 and 049 same locality.

NH-85-047: Diorite. Limonitely stained, bleach potasicly altered diorite, alteration mineralogy includes K-spar with minor kaolmite. Zone is moderately to highly fractured and overlies the zones of 048 and 049.

Diorite contains ~5% Biotite.

NH-85-048: Diorite. Heavily iron stained (hematite and geothite and limonite).

Moderately to highly fractured with abundant quartz-Py veins.

Locally contains up to 20% Py. Moderately potasic alteration with K-spar and minor kaolinite.

This zone interfringes with sample zone 049.

Locally contains 5% biotite.

NH-85-049: Diorite. Relatively unstained. High percentage of K-spar and quartz veins.

Heavily K-spar alteration.

Locally contains Biotite.

Overlying diorite is moderately fresh and unstained.

Diorite varies on down the slope from an equigranular rock to a highly porphenitic rock.

NH-85-050: Diorite.

Locally highly fractured and stained with limonite.

Epidote and chlorite and magnetite has replaced all the mafic minerals. The feldspar appear to be unalterd 5% magnetite.

NH-85-051: "Diabase" Dyke black fine-grained dykes ~5% Py, local chlorite strains and thin quartz and strains cross cuts diorite sill.

W.P., P.B. N.H. June 26, 1985

Traverse from Commerce Creek Road around the base of Gossan Mountains' North Ridge.

NH-85-052: Quartzite coarse-grained locally has sparing cement. Locally contains up to 50% mudstone. Rip up clasts (3m) ⊦ $103^{o}/25^{o}$NE - 1-5% fimonite after Py?

NH-85-053: Quartzite coarse-grained locally (5m) weakly iron stained with thin red horizons medium banded. Locally contains 1% limonite.

⊦ $178^{o}/48^{o}_{E}$

NH-85-054: Quartzite and interbedded (4m) red silts. Quartzite is very clean medium - coarse-grained white and locally contains rip up clasts of the interbedded red beds. Red siltstones are fine-grained and moderately-highy fissile.

$176^{o}/30^{o}E$

NH-85-055: Grey green siltstone (2m) with minor interbedded clean quartzite. This unit underlies where sample NH-85-054 was taken.

Green beds are locally highly siliceous.

Increasing sample number equals higher in strat column.

NH-85-056: (10m thick)

Red beds (red silt-mudstone) with thin - medium interbedded clean quartzite. Quartzite represents 35% of the sequence and increases in concentration towards the top of the sequence. Red beds are moderately fissile. Quartzite locally contains up to 70% rip up clasts of red mudstone.

It is not readily apparent if these beds are right side up.

NH-85-057: (2.5m thick)

Grey green siliceous siltstone. Medium - thinly fissile, weathers to a buff colour.

NH-85-058: (5m thick)

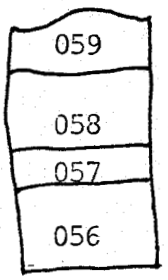
$\not 200^{o}/22^{o}SE$

Quartzite locally midly calcareous. Generally clean and semi-massive. Coarse-grained with locally thin horizons that contain silty material.

NH-85-059: (7m thick)

Grey green siliceous siltstone thinly fissile. ~5% interbedded clean quartzite.

$\vdash 192^{\circ}/25^{\circ}SE$



NH-85-060: (10m thick)

Grey siltstone. Locally weakly calcareous moderate fissile to semi-massive. Locally the outcrop weathers buff to pink.

NH-85-061: (10m thick)

Grey and grey green siliceous siltstone that contains thin very coarse-grained quartzites with siltstone rip up clasts. Outcrop locally weathers buff to pink.

$\vdash 198^{\circ}/18^{\circ}SE$

Bedding appears to be upright foln. dips slightly steeper than beddings.

NH-85-062: (10m thick)

Grey green siltstone moderately thinly fissile moderately siliceous weathers grey brown with very weakly Fe stained.

NH-85-063: (10m thick)

Grey siltstone, moderate fissile weathers grey to buff. Beds vary from thinly bedded to semi-massive.

$\dashv 31^{\circ}/29^{\circ}SE$

NH-85-064: (10m thick)

Same as sample 063. Weakly calcareous.

$\dashv 32^{\circ}/24^{\circ}SE$

NH-85-065: (1.5m thick)

Same as sample 063 but, locally calcareous with carbonate content increasing towards the top.

NH-85-066: (.3m thick) *Marker Horizon*

Mildly calcareous mudstone breccia with a medium to coarse-grained, quartzitic matrix. This unit weathers grey with the mud fragments weathering out.

NH-85-067: (10m thick)

Grey siltstone. Dominantly buff weathering with thin grey weathering beds. These sediments are weakly calcareous except in the grey weathering regions.

NH-85-068: (10m thick)

NH-85-069: (10m thick)

Grey buff weathering siliceous siltstone that is weakly calcareous and dolomitic.

NH-85-070: (10m thick)

Same as 68 and 69.

$\not$ 45°/133°SE

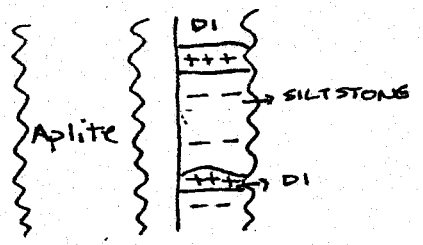
We could not traverse further up the cliff due to perilously steep slopes.

B.P., N.H. June 24, 1985

Helicopter traverse on North ridge of Gossan Mountain travelling towards Commerce Creek road.

NH-85-071: Aplite. Ultra fine-grained massive pink to maroon locally grades into a coarse-grained syenite. Contact betwen Arlite Dyke and surrounding rock is oriented at $106^{o}/72^{o}S$ which is parallel to a fault zone that exists within the Aplite and peripheral to it lower contact at $120^{o}/72^{o}E$.

Looking East



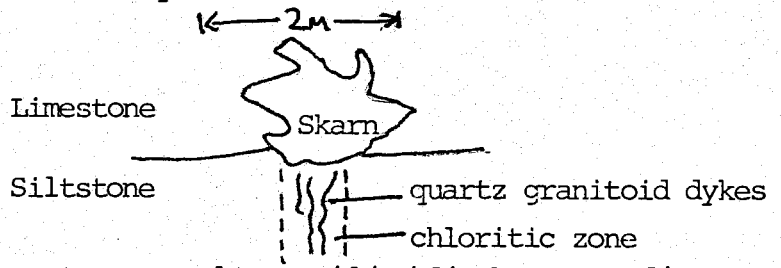
Siltstone
&
Limestone

The Aplite appears to be emplaced in a fault zone that had some continued movement after the dykes emplacement.

NH-85-072: Limestone - light green very fine-grained very silicified locally contains zones and discontinuous horizons of light to dark green epidote(?). (H=6-7) Unit is locally cut with thin dykes and sills of diorite.

NH 85-073: (Pat has photograph)

Skarn coarse-grained ~60% epidote? (H=6-7). and 20-30% red garnet and 10-20% calcite. These skarns occur as irregular masses within limestone horizons. Below the skarn material there are zones containing very thin quartz granitoid dykes in heavily chloriticly altered siltstones.



NH-85-074: Limestone - ultra silicified, very fine-grained, light green unit contains local zones of skarn (NH-85-073) and also contains thin beds of silicified siltstone.

$\vdash 380/300_{SE}$

NH-85-075: Limestone - siltstone. Ultra silicified light green carbonate content varies throughout. The unit is locally cut by thin diorite dykes.

NH-85-076: Diorite

75% plagioclase
10% K-spar
15% Peribole (dominantly Hb)

Medium to coarse-grained with large plagioclase crystals in a ground mass of medium-grained plagioclase, K-spar and Hb etc. Outcrop is moderately fractured.

NH-85-077: Sil calc silt to ultra sil limestone light green pevasive epidote as blebs throughout the zone is cut by thin granite dykes and very thin quartz granitoid dykes. Locally the zone appears to be chloriticly altered - unit is massive to semi-massive.

$26^{\circ}/86^{\circ}$SE
$68^{\circ}/83^{\circ}$NW
$33^{\circ}/33^{\circ}$SE
$109^{\circ}/42^{\circ}$NE
$58^{\circ}/82^{\circ}$NW

Local skarn development in zones close to thin intrusive bodies (ie. quartz granitoids) - epidote and garnet.

NH-85-078: Limestone ultrasilicified grading down into a silicified calcareous siltstone. The unit is light to medium green with very thin quartz rich dykes cutting it. Locally skarn has developed with epidote and garnet.

NH-85-079: Calc siltstone and ultra sil limestone and skarn pervasive chlorite alteration with up to 50% of the rock being skarn. This unit underlies NH-85-078. Thin quartz-granetoid dykes crosscut zone (~ 5% volume).

$48^{\circ}/30^{\circ}$SE
$136^{\circ}22^{\circ}$NE

NH-85-080: Granite couples which varies from an Aplite to a porpheritic granite to a diorite and has a highly variable quartz content. The unit locally contains up to 5% biotite plus locally mafic minerals have been replaced by a green bronze coloured mineral. Thin offshoots from this dyke contain traces of Po and Py skarn minerals also occur within the intrusive is endoskarns.

NH-85-081: Weirdo?

Granite - sample taken at contact with sil limestone. Sample has a powdery blue stain on it. The granite is highly propylitcly altered sample zone has 20cm X 40cm on surface.

NH-85-082: Calc siltstone and sil limestone and skarn. Skarn accounts for 10% of the rock values. Unit is white to light green and contains thin Ca veins and thin granitoid dykes.

$\angle 41^{\circ}/32^{\circ}SE$

NH-85-083: Altered granitic rock.

Pervasive propylitic alteration.

With secondary K-spar medium-grained with coarse-grained feldspar laths.

Arig mode.

60% plagioclase
20% K-spar
10% quartz
10% periboley

NH-85-084: (~30m thick)

Buff weathering limestone with thin interbedded calc siltstone units and thin grey weathering. Stromatolitic limestone horizons. Locally the limestone is weakly silicified.

Limestone range from white to medium grey and from mass (buff) to thinly banded (grey).

The stromatotites indicate conclusively that the sediments are right side up (stroma are ~50cm wide).

Locally, near the tops of Buff weathering sequences de-watering cracks are visible that have later been filled with Ca.

NH-85-085: Underlies 084 (10m thick) grey-white weathering.

Limestone thinly banded and dark grey on fresh surfaces. Fine-grained.

These sequences have horizons with pronounced de-watering cracks that have been filled with Ca.

$\vdash 174^{\circ}/28^{\circ}E$

NH-85-086: Buff weathering limestone moderate fissile medium to dark grey weakly silicified. Near bed tops de-watering crack filled with Ca infillings.

$168^{\circ}/19^{\circ}NE$

NH-85-087: Diorite Dyke fine-grained fresh, moderate fractured. Grossly conformable contact with underlying and overlying carbonates. No visible meta effects on surrounding sediments.

NH-85-088: Buff weathering. Dolomite dark grey mass-thickly fissile.

$\vdash 12^{\circ}/30^{\circ}SE$

NH-85-089: Buff weathering dolomite dark grey to black mass with thin beds that have a high percentage of de-watering cracks.

$\vdash 56^{\circ}/50^{\circ}SE$

NH-85-090: S.O.S. without pronounced de-watering cracks.

$\vdash 39^{\circ}/35^{\circ}SE$

f.a.x. 20° to 211°

axplane $20^{\circ}/70^{\circ}SE$

Small short period (.5m) open uptight felds one of the felds has ruptured along its axal plane.

NH-85-091: White weathering limestone. Medium grey fine-grained with ~1% Py cubes disseminated throughout. This unit is underlain by a D:sill. This sill is fine-grained equigranular with ~20% mafic minerals and does not appear to have had an effect on the overlying limestone.

$\vdash 140^{\circ}/78^{\circ}SW$

$\vdash 39^{\circ}/58^{\circ}NW$

$\vdash 95^{\circ}/30^{\circ}SE$

NH-85-092: Buff weathering. Dolomite semi-massive medium dark grey.

$\lfloor 20^{\circ}/28^{\circ}SE$

W.P., P.B., T.C., B.P., N.H. June 29, 1985

Checking out gold anomalies near Barnes Ranch.

NH-85-093: Dark brown highly calcareous siltstone weakly fissile. Weakly fractured coinciding fractures.

NH-85-094: S.O.S.

NH-85-095: Dark brown calcareous fine-grained sandstone.

This rock is a coarser grained equivalent of #093 and 094.

NH-85-096: Dark brown moderate calcereous fine-grained sandstone. Moderate fracture in an irregular fahsion. Trace Py.

APPENDIX II

ROCK CHIP GEOCHEMISTRY RESULTS

I.C.

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VANCOUVER, B.C.
V6C 1K5

CC: TOM CARPENTER

RECEIVED
JUL 22 1985
SELCO-BP RESOURCES
VANCOUVER, B.C.

CERT. # : A8513797-001-A
INVOICE # : I8513797
DATE : 22-JUL-85
P.O. # : NONE
10137 SAMBO

Sample description	Prep code	Au ppb FA+AA					
NH-85-001	205	10	--	--	--	--	--
NH-85-002	205	<5	--	--	--	--	--
NH-85-003	205	<5	--	--	--	--	--
NH-85-004	205	<5	--	--	--	--	--
NH-85-005	205	5	--	--	--	--	--
NH-85-006	205	<5	--	--	--	--	--
NH-85-007	205	<5	--	--	--	--	--
NH-85-008	205	<5	--	--	--	--	--
NH-85-009	205	<5	--	--	--	--	--
NH-85-010	205	<5	--	--	--	--	--
NH-85-011	205	<5	--	--	--	--	--
NH-85-012	205	<5	--	--	--	--	--
NH-85-013	205	<5	--	--	--	--	--
NH-85-014	205	<5	--	--	--	--	--
NH-85-015	205	<5	--	--	--	--	--
NH-85-016	205	<5	--	--	--	--	--
NH-85-017	205	<5	--	--	--	--	--
NH-85-018	205	<5	--	--	--	--	--
NH-85-019	205	<5	--	--	--	--	--
NH-85-020	205	<5	--	--	--	--	--
NH-85-021	205	<5	--	--	--	--	--
NH-85-022	205	<5	--	--	--	--	--
NH-85-023	205	<5	--	--	--	--	--
NH-85-024	205	<5	--	--	--	--	--
NH-85-025	205	<5	--	--	--	--	--
NH-85-026	205	<5	--	--	--	--	--
NH-85-027	205	<5	--	--	--	--	--
NH-85-028	205	<5	--	--	--	--	--
NH-85-029	205	<5	--	--	--	--	--
NH-85-030	205	<5	--	--	--	--	--
NH-85-031	205	<5	--	--	--	--	--
NH-85-032	205	<5	--	--	--	--	--
NH-85-033	205	<5	--	--	--	--	--
NH-85-034	205	<5	--	--	--	--	--
NH-85-035	205	5	--	--	--	--	--
NH-85-036	205	<5	--	--	--	--	--
NH-85-037	205	<5	--	--	--	--	--
NH-85-038	205	<5	--	--	--	--	--
NH-85-039	205	<5	--	--	--	--	--
STD-01	214	215	--	--	--	--	--

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V6C 1K5

CC: TOM CARPENTER

CERT. # : A8513797-002-A
INVOICE # : I8513797
DATE : 22-JUL-85
P.O. # : NONE
10137

Sample description	Prep code	Au ppb FA+AA					
NH-85-40	205	<5	--	--	--	--	--
NH-85-41	205	<5	--	--	--	--	--
NH-85-42	205	<5	--	--	--	--	--
NH-85-43	205	<5	--	--	--	--	--
NH-85-44	205	<5	--	--	--	--	--
NH-85-45	205	<5	--	--	--	--	--
NH-85-46	205	<5	--	--	--	--	--
NH-85-47	205	<5	--	--	--	--	--
NH-85-48	205	<5	--	--	--	--	--
NH-85-49	205	<5	--	--	--	--	--
NH-85-50	205	<5	--	--	--	--	--
NH-85-51	205	<5	--	--	--	--	--
NH-85-52	205	<5	--	--	--	--	--
NH-85-53	205	<5	--	--	--	--	--
NH-85-54	205	<5	--	--	--	--	--
NH-85-55	205	<5	--	--	--	--	--
NH-85-56	205	<5	--	--	--	--	--
NH-85-57	205	<5	--	--	--	--	--
NH-85-58	205	<5	--	--	--	--	--
NH-85-59	205	<5	--	--	--	--	--
NH-85-60	205	<5	--	--	--	--	--
NH-85-61	205	<5	--	--	--	--	--
NH-85-62	205	<5	--	--	--	--	--
NH-85-63	205	<5	--	--	--	--	--
NH-85-64	205	<5	--	--	--	--	--
NH-85-65	205	<5	--	--	--	--	--
NH-85-66	205	<5	--	--	--	--	--
NH-85-67	205	<5	--	--	--	--	--
NH-85-68	205	<5	--	--	--	--	--
NH-85-69	205	<5	--	--	--	--	--
NH-85-70	205	<5	--	--	--	--	--
NH-85-71	205	<5	--	--	--	--	--
NH-85-72	205	<5	--	--	--	--	--
NH-85-73	205	<5	--	--	--	--	--
NH-85-74	205	<5	--	--	--	--	--
NH-85-75	205	<5	--	--	--	--	--
NH-85-76	205	<5	--	--	--	--	--
NH-85-77	205	<5	--	--	--	--	--
NH-85-78	205	<5	--	--	--	--	--
STD-01	214	220	--	--	--	--	--

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700 - 890 W. PENDER ST.
VANCOUVER, B.C.
V6C 1K5

CC: TOM CARPENTER

CERT. # : A8513797-003-A
INVOICE # : I8513797
DATE : 22-JUL-85
P.O. # : NONE
10137

Sample description	Prep code	Au ppb FA+AA					
NH-85-079	205	<5	--	--	--	--	--
NH-85-080	205	<5	--	--	--	--	--
NH-85-081	205	<5	--	--	--	--	--
NH-85-082	205	<5	--	--	--	--	--
NH-85-083	205	<5	--	--	--	--	--
NH-85-084	205	<5	--	--	--	--	--
NH-85-085	205	<5	--	--	--	--	--
NH-85-086	205	<5	--	--	--	--	--
NH-85-087	205	<5	--	--	--	--	--
NH-85-088	205	<5	--	--	--	--	--
NH-85-089	205	<5	--	--	--	--	--
NH-85-090	205	<5	--	--	--	--	--
NH-85-091	205	<5	--	--	--	--	--
NH-85-092	205	<5	--	--	--	--	--
NH-85-093	205	<5	--	--	--	--	--
NH-85-094	205	<5	--	--	--	--	--
NH-85-095	205	<5	--	--	--	--	--
NH-85-096	205	<5	--	--	--	--	--
TC-85-060	205	<5	--	--	--	--	--
TC-85-061	205	<5	--	--	--	--	--
TC-85-062	205	<5	--	--	--	--	--
TC-85-063	205	<5	--	--	--	--	--
TC-85-064	205	<5	--	--	--	--	--
TC-85-065	205	<5	--	--	--	--	--
TC-85-066	205	<5	--	--	--	--	--
TC-85-067	205	<5	--	--	--	--	--
TC-85-068	205	<5	--	--	--	--	--
TC-85-069	205	<5	--	--	--	--	--
TC-85-070	205	<5	--	--	--	--	--
TC-85-071	205	<5	--	--	--	--	--
TC-85-072	205	10	--	--	--	--	--
TC-85-073	205	<5	--	--	--	--	--
TC-85-074	205	<5	--	--	--	--	--
TC-85-075	205	<5	--	--	--	--	--
TC-85-076	205	<5	--	--	--	--	--
TC-85-077	205	<5	--	--	--	--	--
TC-85-078	205	<5	--	--	--	--	--
TC-85-079	205	<5	--	--	--	--	--
TC-85-080	205	<5	--	--	--	--	--
STD-01	214	220	--	--	--	--	--

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V6C 1K5

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JUL 22 1985
SELCO-BP RESOURCES
VANCOUVER, B.C.

CERT. # : A8513797-004-A
INVOICE # : I8513797
DATE : 22-JUL-85
P.O. # : NONE
10137

Sample description	Prep code	Au ppb FA+AA					
TC-85-081	205	<5	--	--	--	--	--
TC-85-082	205	<5	--	--	--	--	--
TC-85-083	205	<5	--	--	--	--	--
TC-85-084	205	<5	--	--	--	--	--
TC-85-085	205	<5	--	--	--	--	--
TC-85-086	205	<5	--	--	--	--	--
TC-85-087	205	10	--	--	--	--	--
TC-85-088	205	<5	--	--	--	--	--
TC-85-089	205	<5	--	--	--	--	--
TC-85-090	205	<5	--	--	--	--	--
TC-85-091	205	<5	--	--	--	--	--
TC-85-092	205	<5	--	--	--	--	--
TC-85-093	205	<5	--	--	--	--	--
TC-85-094	205	<5	--	--	--	--	--
TC-85-095	205	<5	--	--	--	--	--
TC-85-096	205	<5	--	--	--	--	--
TC-85-097	205	<5	--	--	--	--	--
TC-85-098	205	<5	--	--	--	--	--
TC-85-099	205	<5	--	--	--	--	--
TC-85-100	205	<5	--	--	--	--	--
TC-85-101	205	<5	--	--	--	--	--
TC-85-102	205	40	--	--	--	--	--
TC-85-103	205	10	--	--	--	--	--
TC-85-104	205	15	--	--	--	--	--
TC-85-105	205	<5	--	--	--	--	--
TC-85-107	205	<5	--	--	--	--	--
TC-85-108	205	<5	--	--	--	--	--
TC-85-109	205	5	--	--	--	--	--
TC-85-110	205	<5	--	--	--	--	--
TC-85-111	205	<5	--	--	--	--	--
TC-85-112	205	<5	--	--	--	--	--
TC-85-113	205	<5	--	--	--	--	--
TC-85-114	205	<5	--	--	--	--	--
TC-85-115	205	10	--	--	--	--	--
TC-85-116	205	<5	--	--	--	--	--
TC-85-117	205	<5	--	--	--	--	--
TC-85-118	205	<5	--	--	--	--	--
TC-85-119	205	<5	--	--	--	--	--
STD-01	214	215	--	--	--	--	--
TC-85-120	205	<5	--	--	--	--	--

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CC: TOM CARPENTER

CERT. # : A8513797-005-A
INVOICE # : I8513797
DATE : 22-JUL-85
P.O. # : NONE
10137

Sample description	Prep code	Au ppb FA+AA					
TC-85-121	205	<5	--	--	--	--	--
TC-85-122	205	<5	--	--	--	--	--
TC-85-123	205	<5	--	--	--	--	--
TC-85-124	205	<5	--	--	--	--	--
TC-85-125	205	<5	--	--	--	--	--
RE NH-85-001	214	<5	--	--	--	--	--
STD-01	214	250	--	--	--	--	--

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V6C 1K5

CERT. # : A8513797-001-A
INVOICE # : I8513797
DATE : 22-JUL-85
P.O. # : NONE
10137

CC: TOM CARPENTER

Sample description	Mo ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Ni ppm (ICP)	Ba ppm (ICP)	Fe % (ICP)	Mn ppm (ICP)	Cr ppm (ICP)	Mg % (ICP)	V ppm (ICP)	Al % (ICP)	Be ppm (ICP)	Ca % (ICP)	Cu ppm (ICP)	Ag ppm AAS	Ti % (ICP)	Sr ppm (ICP)	Na % (ICP)	K % (ICP)
NH-85-001	33	<10	179	>10000	14	2	2.0	10	152	360	4.80	178	115	0.50	55	3.78	1.5	17.80	131	0.6	0.100	280	0.28	1.91
NH-85-002	<1	<10	10	6260	8	<2	<0.5	4	19	735	2.32	162	115	1.13	77	9.38	0.5	1.95	24	<0.2	0.449	395	3.40	3.65
NH-85-003	<1	<10	60	1000	24	<2	<0.5	4	3	3220	2.99	770	25	0.42	95	10.80	2.0	1.87	26	<0.2	0.293	2430	3.59	5.54
NH-85-004	<1	<10	55	575	30	<2	<0.5	5	3	2540	2.65	715	32	0.43	86	8.75	1.5	2.00	24	<0.2	0.251	2130	2.76	4.57
NH-85-005	<1	<10	59	680	30	<2	<0.5	5	3	2580	2.87	745	30	0.50	91	9.64	2.0	3.19	26	<0.2	0.270	2040	2.78	4.94
NH-85-006	<1	<10	19	1870	22	<2	<0.5	8	22	340	3.40	1100	82	1.41	62	6.54	<0.5	1.98	16	<0.2	0.375	92	0.81	3.44
NH-85-007	<1	<10	4	845	10	<2	<0.5	2	2	1740	1.49	380	42	0.59	85	10.20	1.0	2.64	52	<0.2	0.291	830	2.76	6.58
NH-85-008	<1	<10	8	315	12	<2	<0.5	4	12	635	2.13	155	125	1.23	80	7.32	1.0	0.79	48	<0.2	0.304	127	2.09	4.14
NH-85-009	<1	<10	12	425	4	<2	<0.5	4	12	635	2.78	170	100	1.62	90	7.33	1.0	0.99	26	<0.2	0.334	110	2.06	3.91
NH-85-010	<1	<10	<1	740	6	<2	<0.5	2	<1	1040	2.71	139	51	0.55	66	9.89	1.0	2.42	85	<0.2	0.298	1110	3.75	3.92
NH-85-011	<1	<10	<1	760	6	<2	<0.5	4	1	1340	2.65	123	55	0.59	57	10.30	1.0	2.25	107	<0.2	0.312	990	3.71	4.81
NH-85-012	<1	<10	2	380	4	<2	<0.5	4	13	680	2.58	135	99	1.23	87	8.11	0.5	0.46	44	<0.2	0.350	143	2.28	4.54
NH-85-013	<1	<10	<1	670	6	<2	<0.5	10	2	1340	3.26	134	47	0.75	87	9.08	1.0	2.51	235	<0.2	0.358	1050	2.54	4.74
NH-85-014	<1	<10	20	350	4	<2	<0.5	5	12	570	2.62	245	82	1.60	130	6.84	1.5	1.59	84	<0.2	0.301	140	1.97	4.09
NH-85-015	<1	<10	96	50	88	<2	<0.5	2	<1	55	1.32	555	47	0.05	3	12.50	4.0	0.75	18	<0.2	0.048	139	7.24	3.78
NH-85-016	<1	<10	13	330	4	<2	<0.5	6	13	585	2.23	178	100	1.87	65	7.08	0.5	1.00	26	<0.2	0.314	72	1.98	3.73
NH-85-017	<1	<10	21	415	6	<2	<0.5	9	14	625	2.55	290	105	2.96	107	7.70	1.5	3.05	42	<0.2	0.366	94	2.33	4.26
NH-85-018	<1	<10	16	480	4	<2	<0.5	8	12	550	2.55	340	115	2.94	67	7.43	1.0	2.08	37	<0.2	0.337	85	2.34	3.64
NH-85-019	<1	<10	<1	550	6	<2	<0.5	6	3	1360	2.21	181	48	0.44	61	10.30	1.5	2.17	190	<0.2	0.260	1290	3.39	5.04
NH-85-020	<1	<10	30	330	12	<2	<0.5	5	11	610	1.72	275	90	2.33	90	6.93	1.5	1.88	29	<0.2	0.311	98	2.47	4.34
NH-85-021	<1	<10	<1	560	12	<2	<0.5	3	<1	1100	2.25	104	56	0.49	49	10.10	1.5	2.71	116	<0.2	0.288	1220	3.18	3.89
NH-85-022	7	<10	8	425	6	<2	<0.5	4	12	650	3.17	168	110	1.22	88	7.60	1.0	0.24	17	<0.2	0.364	83	1.79	4.14
NH-85-023	<1	<10	<1	780	4	<2	<0.5	4	<1	1090	2.43	156	58	0.57	60	11.10	1.5	3.42	175	<0.2	0.331	1430	4.18	3.32
NH-85-024	<1	<10	5	640	8	<2	<0.5	3	2	890	2.36	164	53	0.64	60	8.15	1.0	2.61	85	<0.2	0.264	955	2.70	3.45
NH-85-025	<1	<10	2	655	6	<2	<0.5	3	8	585	1.99	143	115	1.38	62	6.55	0.5	1.57	45	<0.2	0.284	148	1.94	3.36
NH-85-026	<1	<10	3	525	14	<2	<0.5	3	<1	1250	2.03	190	34	0.41	60	10.10	1.5	1.99	79	<0.2	0.255	1170	3.73	4.68
NH-85-027	<1	<10	92	50	52	<2	<0.5	2	<1	105	1.08	390	34	0.08	3	10.20	2.5	0.54	30	<0.2	0.038	194	4.80	3.58
NH-85-028	<1	<10	47	265	18	<2	<0.5	4	<1	850	2.07	550	33	0.20	46	11.00	2.5	1.52	126	<0.2	0.197	1100	3.52	5.14
NH-85-029	<1	<10	44	40	12	<2	<0.5	3	2	440	2.43	670	40	0.96	67	8.99	1.5	2.38	103	<0.2	0.251	505	3.03	4.25
NH-85-030	<1	<10	88	660	20	<2	<0.5	4	1	1430	3.14	905	44	0.79	115	8.99	3.0	4.15	56	<0.2	0.403	1440	2.79	4.58
NH-85-031	<1	<10	107	425	24	<2	<0.5	3	<1	670	2.25	745	47	0.32	70	10.80	2.0	2.68	55	<0.2	0.230	900	5.46	5.09
NH-85-032	<1	<10	14	1340	6	<2	<0.5	2	<1	1030	2.96	470	51	0.97	74	9.61	1.5	3.84	81	<0.2	0.313	1140	3.94	3.81
NH-85-033	<1	<10	44	1230	10	<2	<0.5	5	4	935	3.10	710	52	0.84	81	9.31	2.5	3.80	99	<0.2	0.315	1250	3.79	3.68
NH-85-034	<1	<10	54	230	20	<2	<0.5	2	<1	1590	1.45	665	46	0.17	34	10.80	2.0	2.49	20	<0.2	0.136	2190	4.76	4.60
NH-85-035	10	<10	41	120	64	<2	<0.5	<1	<1	365	1.57	87	29	0.05	215	10.30	1.0	0.03	21	1.4	0.083	99	1.13	8.47
NH-85-036	<1	<10	38	365	10	<2	<0.5	3	3	870	1.67	570	50	1.01	69	9.42	1.0	2.42	22	<0.2	0.176	620	2.99	6.00
NH-85-037	<1	<10	60	415	24	<2	<0.5	3	<1	1470	1.97	640	28	0.36	53	11.30	1.5	1.63	17	<0.2	0.199	1390	4.80	5.35
NH-85-038	<1	<10	21	775	8	<2	<0.5	4	2	1480	1.95	465	28	0.74	81	8.92	0.5	2.56	41	<0.2	0.310	765	2.77	4.95
NH-85-039	<1	<10	36	1380	4	<2	<0.5	8	5	1340	3.79	1130	38	0.89	75	10.60	1.5	1.97	16	<0.2	0.395	1120	4.58	3.39
STD-01	8	<10	173	605	54	<2	<0.5	12	38	580	4.26	995	140	1.32	102	7.71	<0.5	1.79	235	1.4	0.374	148	1.86	2.02

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212 Brooksbank Ave.
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CERTIFICATE OF ANALYSIS

TO : B P RESOURCES CANADA LTD. SELCO DIVISION

700 - 890 W. PENDER ST.
VANCOUVER. B.C.
V6C 1K5

CERT. # : A8513797-002-A
INVOICE # : 18513797
DATE : 22-JUL-85
P.O. # : NONE
10137

CC: TOM CARPENTER

Sample description	Mo ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Ni ppm (ICP)	Ba ppm (ICP)	Fe % (ICP)	Mn ppm (ICP)	Cr ppm (ICP)	Mg % (ICP)	V ppm (ICP)	Al % (ICP)	Be ppm (ICP)	Ca % (ICP)	Cu ppm (ICP)	Ag ppm AAS	Ti % (ICP)	Sr ppm (ICP)	Na % (ICP)	K % (ICP)
NH-85-40	<1	<10	52	1020	4	<2	<0.5	14	22	650	5.05	390	73	2.89	92	7.77	<0.5	0.52	30	<0.2	0.880	46	1.89	3.58
NH-85-41	<1	<10	85	3350	4	<2	<0.5	14	13	570	6.69	630	49	4.13	117	7.81	1.0	2.01	40	<0.2	2.150	68	1.54	3.15
NH-85-42	<1	<10	69	2630	2	<2	<0.5	16	25	985	9.13	525	100	2.80	140	8.00	<0.5	1.24	14	<0.2	1.980	105	1.92	4.20
NH-85-43	<1	<10	33	1040	16	<2	<0.5	6	5	1120	3.14	720	37	0.73	70	8.99	0.5	1.38	28	<0.2	0.299	595	4.00	3.60
NH-85-44	<1	<10	19	1400	10	<2	<0.5	6	5	1040	3.26	690	44	0.85	80	9.61	1.0	2.74	100	<0.2	0.318	900	3.94	3.69
NH-85-45	<1	<10	38	460	8	<2	<0.5	3	<1	1330	3.14	580	32	0.32	54	9.40	1.0	1.42	18	<0.2	0.226	1130	4.16	4.16
NH-85-46	<1	<10	86	1880	<1	<2	<0.5	19	108	310	7.41	1140	300	4.52	285	5.88	1.0	5.49	53	0.6	0.360	445	2.23	2.18
NH-85-47	<1	<10	41	520	80	<2	<0.5	2	2	1090	3.40	133	67	0.27	56	8.63	<0.5	0.42	15	0.4	0.182	510	2.67	4.98
NH-85-48	<1	<10	44	695	90	<2	<0.5	3	4	1160	4.37	315	60	0.36	61	7.99	<0.5	0.53	18	0.6	0.174	500	3.33	4.87
NH-85-49	<1	<10	127	870	34	<2	<0.5	3	4	1020	2.14	575	77	0.70	63	7.47	<0.5	0.29	24	0.6	0.219	200	1.97	4.67
NH-85-50	<1	<10	28	445	16	<2	<0.5	3	<1	940	2.65	585	34	0.64	64	10.50	1.0	2.04	51	<0.2	0.353	1190	4.72	4.28
NH-85-51	<1	<10	57	920	<1	<2	<0.5	27	45	255	7.17	635	51	4.25	151	9.46	<0.5	3.18	115	<0.2	1.090	265	2.52	3.30
NH-85-52	<1	<10	37	570	<1	<2	<0.5	7	12	100	2.26	135	140	1.54	30	3.31	<0.5	0.17	4	<0.2	0.103	13	0.09	0.98
NH-85-53	<1	<10	21	1130	1	<2	<0.5	5	10	305	1.59	86	170	1.09	18	2.50	<0.5	0.23	1	<0.2	0.078	13	0.04	0.74
NH-85-54	<1	<10	38	325	1	<2	<0.5	4	10	870	1.85	460	160	1.56	23	3.78	<0.5	0.32	<1	<0.2	0.125	38	0.14	1.74
NH-85-55	<1	<10	96	560	6	<2	<0.5	10	17	880	2.98	840	76	3.90	50	7.27	<0.5	0.58	1	0.6	0.268	71	0.70	2.68
NH-85-56	<1	<10	19	280	6	<2	<0.5	5	10	935	1.86	620	105	2.13	27	3.61	<0.5	1.38	<1	<0.2	0.126	26	0.16	1.71
NH-85-57	<1	<10	44	430	4	<2	<0.5	6	18	415	3.45	255	65	2.98	55	7.54	1.0	0.43	2	<0.2	0.276	12	0.48	2.23
NH-85-58	<1	<10	22	140	8	<2	<0.5	4	7	125	1.52	465	130	1.73	15	1.86	<0.5	0.81	12	<0.2	0.053	2	0.05	0.41
NH-85-59	<1	<10	34	325	6	<2	<0.5	3	11	245	2.39	470	105	2.61	27	4.57	<0.5	0.81	3	<0.2	0.154	11	0.32	1.85
NH-85-60	<1	<10	31	390	10	<2	<0.5	7	11	350	2.14	530	54	3.56	44	6.51	0.5	1.63	93	<0.2	0.246	20	0.71	2.78
NH-85-61	<1	<10	38	460	10	<2	<0.5	6	11	335	2.43	735	60	4.61	40	6.44	<0.5	2.77	10	<0.2	0.247	25	0.90	2.68
NH-85-62	<1	<10	32	415	10	<2	<0.5	4	10	395	2.17	520	50	3.59	36	5.97	<0.5	1.61	11	<0.2	0.233	22	0.83	2.46
NH-85-63	<1	<10	30	415	14	<2	<0.5	4	9	475	1.86	560	47	4.19	40	6.28	0.5	2.71	10	<0.2	0.257	28	0.94	2.81
NH-85-64	<1	<10	21	460	12	<2	<0.5	5	9	365	1.76	515	47	4.61	38	5.78	<0.5	4.10	18	<0.2	0.230	30	0.85	2.69
NH-85-65	<1	<10	18	310	12	<2	<0.5	5	6	210	1.48	720	36	6.17	27	4.20	<0.5	7.39	8	<0.2	0.150	27	0.45	2.04
NH-85-66	<1	<10	34	320	14	<2	<0.5	6	7	95	1.25	1170	42	6.91	13	1.47	<0.5	10.40	26	<0.2	0.061	28	0.21	0.59
NH-85-67	<1	<10	14	225	4	<2	<0.5	2	4	135	1.31	800	25	6.85	19	2.75	<0.5	9.19	45	<0.2	0.095	24	0.27	1.23
NH-85-68	<1	<10	33	350	10	<2	<0.5	3	8	230	1.55	655	37	5.01	32	4.80	<0.5	4.91	9	<0.2	0.176	23	0.51	2.30
NH-85-69	<1	<10	28	355	12	<2	<0.5	5	8	230	1.63	760	44	5.45	30	4.55	<0.5	5.56	11	<0.2	0.161	24	0.50	2.08
NH-85-70	<1	<10	15	335	14	<2	<0.5	3	7	260	1.40	560	34	4.89	28	4.47	<0.5	5.03	8	<0.2	0.153	21	0.46	2.20
NH-85-71	<1	<10	38	95	34	<2	<0.5	<1	<1	165	0.84	225	31	0.11	16	10.50	1.5	0.70	4	<0.2	0.060	370	1.78	8.91
NH-85-72	<1	<10	36	355	10	<2	<0.5	4	7	345	1.70	505	47	4.91	37	5.15	1.0	17.00	18	<0.2	0.222	129	1.33	2.88
NH-85-73	<1	<10	91	310	<1	<2	<0.5	5	6	15	4.68	1560	63	3.84	96	3.79	0.5	19.60	6	<0.2	0.097	72	0.33	0.09
NH-85-74	<1	<10	43	275	6	<2	<0.5	4	5	385	1.13	510	28	3.38	22	2.82	0.5	33.50	13	<0.2	0.116	112	0.87	1.19
NH-85-75	<1	<10	42	315	6	<2	<0.5	4	7	250	1.67	580	44	3.06	39	4.53	1.5	17.70	12	<0.2	0.180	144	1.66	2.97
NH-85-76	<1	<10	61	170	28	<2	<0.5	2	<1	1200	1.52	530	26	0.18	38	10.40	2.5	2.11	18	<0.2	0.116	1480	4.05	4.66
NH-85-77	<1	<10	56	325	10	<2	<0.5	8	5	95	1.43	640	33	3.27	29	2.78	1.0	20.60	8	<0.2	0.118	154	0.97	0.45
NH-85-78	<1	<10	78	270	4	<2	<0.5	3	6	225	1.63	530	43	4.69	42	3.88	1.0	15.50	7	<0.2	0.154	110	1.41	1.92
STD-01	7	<10	166	590	54	<2	<0.5	12	37	560	4.12	990	135	1.28	104	7.57	<0.5	1.83	230	1.2	0.364	150	1.81	1.91

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700 - 890 W. PENDER ST.
VANCOUVER, B.C.
V6C 1K5

CERT. # : A8513797-003-A
INVOICE # : 18513797
DATE : 22-JUL-85
P.O. # : NONE
10137

CC: TOM CARPENTER

Sample description	Mo ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Ni ppm (ICP)	Ba ppm (ICP)	Fe % (ICP)	Mn ppm (ICP)	Cr ppm (ICP)	Mg % (ICP)	V ppm (ICP)	Al % (ICP)	Be ppm (ICP)	Ca % (ICP)	Cu ppm (ICP)	Ag ppm AAS	Ti % (ICP)	Sr ppm (ICP)	Na % (ICP)	K % (ICP)
NH-85-079	<1	<10	111	310	<1	<2	<0.5	5	6	130	3.21	1020	42	4.98	76	4.03	3.0	17.40	10	<0.2	0.158	172	1.78	1.39
NH-85-080	<1	<10	123	95	52	<2	<0.5	1	<1	260	1.57	530	48	0.26	19	11.30	3.0	0.78	21	<0.2	0.093	197	6.69	4.96
NH-85-081	<1	<10	63	235	22	<2	<0.5	1	<1	400	1.31	655	22	0.40	55	8.98	1.0	3.77	30	<0.2	0.097	260	2.76	6.71
NH-85-082	<1	<10	101	275	18	<2	<0.5	5	7	130	2.10	725	48	4.81	41	4.88	1.5	13.50	30	<0.2	0.160	119	1.69	2.06
NH-85-083	<1	<10	60	145	36	<2	<0.5	3	<1	330	1.24	275	21	0.43	26	11.00	0.5	0.35	27	<0.2	0.096	350	3.89	7.49
NH-85-084	<1	<10	32	275	20	<2	<0.5	3	5	220	0.91	385	27	4.00	21	3.52	<0.5	14.40	12	<0.2	0.119	59	0.60	2.14
NH-85-085	<1	<10	53	225	16	<2	<0.5	3	4	220	1.07	370	24	7.25	19	2.98	<0.5	9.41	8	<0.2	0.100	76	0.50	1.09
NH-85-086	<1	<10	375	240	16	3	2.0	2	4	335	0.87	210	31	4.33	23	3.70	<0.5	10.80	13	<0.2	0.142	76	0.55	1.68
NH-85-087	<1	<10	76	1660	6	<2	<0.5	17	96	455	6.72	845	255	4.28	245	6.08	0.5	4.47	73	0.4	2.080	305	2.07	2.26
NH-85-088	<1	<10	18	190	14	<2	<0.5	2	5	160	1.05	375	30	6.92	19	2.49	<0.5	9.27	18	<0.2	0.100	37	0.33	1.37
NH-85-089	<1	<10	88	185	20	<2	0.5	2	4	135	0.96	370	23	6.43	18	2.41	<0.5	13.20	7	<0.2	0.087	44	0.34	1.15
NH-85-090	<1	<10	62	230	24	<2	<0.5	2	5	165	1.01	440	27	7.96	20	3.22	<0.5	10.50	9	<0.2	0.108	28	0.25	1.58
NH-85-091	<1	<10	15	270	12	<2	<0.5	4	6	295	1.49	685	30	9.21	23	4.18	<0.5	11.20	9	<0.2	0.134	114	0.50	1.16
NH-85-092	<1	<10	29	335	10	<2	<0.5	2	6	235	1.48	845	30	6.80	23	4.52	<0.5	8.01	5	<0.2	0.159	29	0.62	2.39
NH-85-093	<1	<10	2	2200	6	<2	<0.5	3	5	185	0.74	2810	48	3.57	11	2.16	<0.5	5.98	4	<0.2	0.112	48	0.50	1.88
NH-85-094	<1	<10	2	1000	10	<2	<0.5	2	3	155	0.54	2510	58	2.73	7	2.10	<0.5	4.47	3	<0.2	0.082	39	0.76	1.62
NH-85-095	<1	<10	4	1440	10	<2	<0.5	2	6	245	0.83	3070	70	1.81	16	3.32	<0.5	2.97	5	<0.2	0.244	45	1.06	2.46
NH-85-096	<1	<10	<1	1850	12	<2	<0.5	2	4	240	0.70	3420	57	1.61	9	2.92	<0.5	2.80	3	<0.2	0.170	51	1.00	2.20
IC-85-060	<1	<10	<1	770	10	<2	<0.5	4	<1	1350	2.07	215	38	0.53	75	10.40	1.0	2.41	132	<0.2	0.298	1230	3.43	5.13
IC-85-061	<1	<10	1	380	10	<2	<0.5	9	14	640	2.20	160	76	2.16	62	7.69	<0.5	0.71	17	<0.2	0.341	61	1.91	4.00
IC-85-062	<1	<10	<1	1360	6	<2	<0.5	3	<1	1170	2.35	270	71	0.90	85	9.91	1.0	3.47	134	<0.2	0.375	895	3.63	4.06
IC-85-063	18	<10	<1	725	8	<2	<0.5	4	<1	1290	1.96	230	60	0.46	55	10.90	1.5	2.87	111	<0.2	0.302	1200	3.68	4.72
IC-85-064	<1	<10	3	1270	10	<2	<0.5	5	3	930	2.99	350	42	0.93	70	9.37	1.5	3.35	95	<0.2	0.299	1120	3.93	3.61
IC-85-065	<1	<10	9	1290	24	<2	<0.5	2	<1	1090	2.32	605	35	0.76	69	8.97	0.5	2.22	54	<0.2	0.294	1180	3.33	3.57
IC-85-066	<1	<10	38	1170	40	<2	<0.5	6	2	1190	2.95	645	34	0.69	77	9.17	0.5	3.48	83	<0.2	0.318	825	2.90	4.52
IC-85-067	<1	<10	10	470	20	<2	<0.5	2	2	1220	1.09	350	31	0.64	60	9.78	1.0	2.85	26	<0.2	0.242	895	2.98	5.44
IC-85-068	<1	<10	11	625	24	<2	<0.5	4	5	1090	1.43	340	46	0.87	66	9.96	1.0	2.89	77	<0.2	0.295	660	3.31	5.25
IC-85-069	<1	<10	12	590	14	<2	<0.5	3	6	920	1.94	385	39	0.49	66	9.92	1.0	3.31	104	<0.2	0.382	550	3.74	3.73
IC-85-070	3	<10	<1	595	10	<2	<0.5	3	<1	1140	2.39	260	38	0.45	57	10.60	1.0	2.59	109	<0.2	0.294	1460	4.39	4.01
IC-85-071	<1	<10	<1	1300	6	<2	<0.5	5	2	1240	3.11	143	37	0.80	73	10.80	1.0	3.86	255	<0.2	0.381	750	2.93	4.30
IC-85-072	<1	<10	<1	685	6	<2	<0.5	4	<1	1150	2.53	154	31	0.50	46	10.30	0.5	2.39	125	<0.2	0.285	785	3.44	4.00
IC-85-073	<1	<10	66	95	68	<2	<0.5	<1	<1	270	2.02	365	30	0.12	63	11.00	4.0	0.31	14	<0.2	0.136	325	4.46	5.94
IC-85-074	<1	<10	3	1370	16	<2	<0.5	3	2	1020	2.82	515	48	0.86	76	10.20	1.0	3.70	84	<0.2	0.328	1130	4.16	3.74
IC-85-075	<1	<10	10	740	12	<2	<0.5	4	3	1110	3.16	340	39	0.64	57	10.20	1.0	2.22	26	<0.2	0.323	1200	3.00	3.79
IC-85-076	<1	<10	5	750	10	<2	<0.5	7	3	1200	3.50	215	54	0.62	58	11.10	1.5	2.52	83	<0.2	0.334	1370	3.60	3.59
IC-85-077	<1	<10	21	685	12	<2	<0.5	5	3	1040	3.29	390	41	0.61	56	10.10	1.0	2.40	28	<0.2	0.318	1220	3.32	3.47
IC-85-078	1	<10	17	435	4	<2	<0.5	8	15	660	3.26	340	92	1.92	51	6.48	<0.5	0.91	21	<0.2	0.305	84	1.28	3.53
IC-85-079	<1	<10	17	340	6	<2	<0.5	17	17	630	3.05	178	87	1.33	84	9.70	1.5	0.06	5	<0.2	0.409	30	1.49	4.17
IC-85-080	6	20	<1	610	10	<2	<0.5	13	1	1540	2.48	91	36	0.36	44	10.30	0.5	1.77	250	<0.2	0.263	910	2.52	5.54
STD-01	7	<10	170	555	52	<2	<0.5	12	37	585	4.26	955	140	1.30	98	7.35	<0.5	1.78	215	1.2	0.359	140	1.74	1.90

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CERT. # : A8513797-004-A
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10137

CC: TOM CARPENTER

Sample description	Mo ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Ni ppm (ICP)	Ba ppm (ICP)	Fe % (ICP)	Mn ppm (ICP)	Cr ppm (ICP)	Mg % (ICP)	V ppm (ICP)	Al % (ICP)	Be ppm (ICP)	Ca % (ICP)	Cu ppm (ICP)	Ag ppm AAS	Ti % (ICP)	Sr ppm (ICP)	Na % (ICP)	K % (ICP)
TC-85-081	7	<10	<1	310	4	<2	<0.5	14	7	430	2.23	196	87	1.03	35	5.49	<0.5	1.66	280	<0.2	0.253	146	2.04	3.23
TC-85-082	2	<10	4	530	16	<2	<0.5	5	8	740	2.31	160	81	1.93	57	8.15	1.0	1.87	86	<0.2	0.308	420	2.45	4.02
TC-85-083	<1	<10	2	715	8	<2	<0.5	5	1	1330	2.97	205	31	0.53	75	10.10	1.5	2.69	295	<0.2	0.314	1360	3.63	4.48
TC-85-084	<1	<10	13	330	4	<2	<0.5	7	10	420	1.96	695	95	6.04	38	5.73	0.5	7.07	25	<0.2	0.222	72	1.32	2.99
TC-85-085	<1	<10	20	80	10	<2	<0.5	3	3	85	1.11	555	14	1.62	16	1.65	0.5	30.40	20	<0.2	0.069	172	1.00	0.85
TC-85-086	<1	<10	68	60	16	<2	<0.5	73	3	80	27.60	540	50	0.91	240	0.68	3.0	1.67	2370	<0.2	0.046	35	2.76	0.94
TC-85-087	<1	<10	<1	845	6	<2	<0.5	3	3	650	3.30	182	40	0.65	63	9.32	1.0	2.66	82	<0.2	0.288	1090	4.08	3.55
TC-85-088	2	<10	9	430	4	<2	<0.5	5	13	550	2.42	220	115	2.28	54	6.77	<0.5	1.32	28	<0.2	0.311	100	2.13	3.64
TC-85-089	<1	<10	<1	840	4	<2	<0.5	4	3	1030	3.08	245	37	0.68	62	10.10	1.0	2.71	65	<0.2	0.319	1170	4.75	3.73
TC-85-090	<1	<10	33	415	12	<2	<0.5	3	12	540	2.38	600	97	3.41	49	6.30	<0.5	3.34	14	<0.2	0.319	114	1.95	3.53
TC-85-091	<1	<10	<1	815	12	<2	<0.5	5	5	680	3.06	185	37	0.65	59	11.10	1.5	2.69	40	<0.2	0.327	1140	5.96	4.23
TC-85-092	<1	<10	<1	695	8	<2	<0.5	6	3	640	2.55	139	36	0.49	64	9.85	1.0	2.58	85	<0.2	0.270	1270	3.32	4.24
TC-85-093	<1	<10	<1	745	6	<2	<0.5	4	7	745	2.71	220	42	0.71	60	10.00	1.0	3.37	96	<0.2	0.296	1200	3.64	3.41
TC-85-094	<1	<10	2	765	10	<2	<0.5	4	4	685	3.25	320	47	0.71	60	11.00	1.5	3.64	159	<0.2	0.337	1360	4.83	3.67
TC-85-095	<1	<10	17	1360	295	2	<0.5	7	6	1100	3.43	620	49	0.96	123	9.79	2.0	3.15	137	<0.2	0.303	1250	4.56	3.82
TC-85-096	<1	<10	52	1940	2	<2	<0.5	18	23	515	8.37	595	41	5.50	156	8.81	<0.5	1.83	12	<0.2	1.530	63	1.76	3.09
TC-85-097	<1	<10	23	1210	12	<2	<0.5	7	6	1110	3.38	690	37	1.02	72	9.42	0.5	2.58	11	<0.2	0.304	1120	3.39	3.68
TC-85-098	<1	<10	20	345	6	<2	<0.5	3	6	420	1.41	1040	96	1.55	24	4.89	<0.5	7.43	8	<0.2	0.225	88	0.34	3.90
TC-85-099	<1	<10	90	735	1	<2	<0.5	26	40	695	6.85	520	48	5.06	120	7.98	<0.5	2.34	43	<0.2	0.964	62	1.59	2.78
TC-85-100	<1	<10	33	450	10	<2	<0.5	6	13	375	2.20	805	56	4.86	34	5.60	<0.5	5.73	13	<0.2	0.233	49	0.82	3.45
TC-85-101	<1	<10	39	450	12	<2	<0.5	7	11	6330	3.18	335	39	3.18	73	8.79	<0.5	1.98	3	<0.2	0.407	355	0.56	6.10
TC-85-102	<1	15	11	235	10	<2	<0.5	2	<1	580	1.34	350	19	0.12	21	10.50	<0.5	0.21	11	<0.2	0.115	205	7.16	4.13
TC-85-103	<1	<10	59	850	16	<2	<0.5	3	2	1010	3.00	805	23	0.41	47	10.10	1.0	0.92	15	<0.2	0.291	615	3.79	3.42
TC-85-104	<1	<10	13	225	20	<2	<0.5	<1	<1	565	1.16	530	14	0.11	27	10.80	<0.5	0.64	11	<0.2	0.106	153	5.54	5.12
TC-85-105	<1	<10	98	1570	26	<2	<0.5	6	8	810	3.67	1060	42	0.36	75	10.30	1.5	2.19	18	<0.2	0.351	465	4.56	3.15
TC-85-107	<1	<10	30	925	6	<2	<0.5	34	48	275	7.70	800	48	5.32	154	9.87	0.5	4.70	44	<0.2	1.160	156	1.89	3.32
TC-85-108	<1	<10	112	3050	6	<2	<0.5	22	31	630	10.70	755	85	4.09	148	8.75	0.5	1.45	14	<0.2	2.220	68	2.79	2.88
TC-85-109	<1	<10	30	410	8	<2	<0.5	4	6	220	1.34	455	28	5.29	24	3.50	<0.5	8.32	8	<0.2	0.165	49	0.53	1.74
TC-85-110	<1	<10	148	335	24	<2	0.5	2	10	290	1.14	320	53	4.82	24	4.55	<0.5	8.81	18	<0.2	0.170	49	0.80	3.20
TC-85-111	<1	<10	96	245	10	<2	<0.5	2	5	170	1.01	290	23	4.54	20	3.26	<0.5	11.90	7	<0.2	0.118	50	0.54	1.45
TC-85-112	<1	<10	14	295	16	<2	<0.5	2	5	185	1.25	485	25	7.52	21	3.54	<0.5	10.20	14	<0.2	0.117	40	0.45	1.61
TC-85-113	<1	<10	23	215	22	<2	<0.5	3	4	25	1.18	535	31	10.30	17	2.63	<0.5	16.00	7	<0.2	0.084	122	0.09	0.07
TC-85-114	<1	<10	80	1870	2	<2	<0.5	16	92	385	6.74	905	235	4.10	265	6.38	1.0	4.91	78	<0.2	2.330	360	2.10	1.88
TC-85-115	<1	<10	7	180	8	<2	<0.5	2	4	110	0.96	455	21	7.41	17	2.13	<0.5	11.40	7	<0.2	0.084	40	0.21	1.03
TC-85-116	<1	<10	41	320	20	<2	<0.5	2	5	160	1.01	330	21	6.50	20	2.95	<0.5	12.00	9	<0.2	0.109	46	0.49	1.32
TC-85-117	<1	<10	23	325	38	2	<0.5	2	6	235	1.02	375	29	6.76	27	4.16	<0.5	8.29	95	<0.2	0.153	36	0.69	2.20
TC-85-118	<1	<10	25	255	10	<2	<0.5	2	5	150	1.34	930	20	8.14	19	3.41	<0.5	11.40	16	<0.2	0.105	32	0.46	1.66
TC-85-119	<1	<10	29	430	6	<2	<0.5	3	9	335	1.76	540	41	4.47	43	6.73	0.5	3.44	21	<0.2	0.258	30	1.00	2.90
STD-01	8	<10	181	630	54	<2	<0.5	12	40	615	4.37	1050	140	1.39	110	8.57	<0.5	1.97	250	1.2	0.405	160	2.02	2.12
TC-85-120	<1	<10	28	520	<1	<2	<0.5	5	15	360	3.33	620	120	2.82	49	7.49	1.5	1.42	4	<0.2	0.309	13	0.42	3.38

Certified by ...

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North Vancouver, B.C.
Canada V7J 2C1
Telephone:(604) 984-0221
Telex: 043-52597

•Analytical Chemists •Geochemists •Registered Assayers

CERTIFICATE OF ANALYSIS

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JUL 22 1985
SELCO-BP RESOURCES
VANCOUVER, B.C.

TO : B P RESOURCES CANADA LTD. SELCO DIVISION

700 - 890 W. PENDER ST.
VANCOUVER, B.C.
V6C 1K5

CERT. # : A8513797-005-A
INVOICE # : I8513797
DATE : 22-JUL-85
P.O. # : NONE
10137

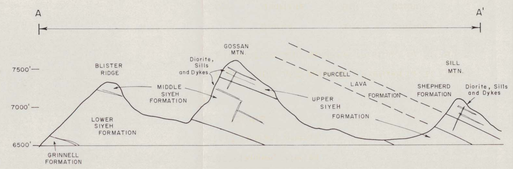
CC: TOM CARPENTER

Sample description	Mo ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Ni ppm (ICP)	Ba ppm (ICP)	Fe % (ICP)	Mn ppm (ICP)	Cr ppm (ICP)	Mg % (ICP)	V ppm (ICP)	Al % (ICP)	Be ppm (ICP)	Ca % (ICP)	Cu ppm (ICP)	Ag ppm AAS	Ti % (ICP)	Sr ppm (ICP)	Na % (ICP)	K % (ICP)
TC-85-121	<1	<10	18	625	3	<2	<0.5	<1	3	30	0.19	150	60	7.48	12	0.37	<0.5	11.80	4	<0.2	0.033	30	0.05	0.18
TC-85-122	<1	<10	13	635	4	<2	<0.5	<1	3	25	0.24	255	160	5.70	10	0.29	<0.5	8.82	4	<0.2	0.035	34	0.04	0.09
TC-85-123	2	<10	15	85	6	<2	<0.5	<1	5	35	0.68	21	265	0.14	17	0.54	<0.5	0.16	2	<0.2	0.062	<1	0.01	0.13
TC-85-124	<1	<10	<1	90	4	<2	<0.5	<1	4	35	0.61	16	265	0.08	15	0.54	<0.5	0.08	2	<0.2	0.040	2	0.01	0.12
RE NH-85-001	32	<10	175	>10000	12	<2	1.5	10	149	255	4.67	180	105	0.26	60	2.67	1.5	18.80	137	0.6	0.109	295	0.26	1.79
STD-01	7	<10	177	670	52	<2	<0.5	12	40	605	4.30	1030	135	1.36	107	8.26	<0.5	1.98	235	1.2	0.382	156	1.94	1.99

Certified by ..

690000 m E
691000 m E
692000 m E
693000 m E
5452000 m N
5451000 m N
5450000 m N
5449000 m N
6000
5500
6500
ALBERTA
BRITISH COLUMBIA
COMMERCE CREEK
GRINNELL FM
SIYEH FM
NORTH RIDGE
BLISTER RIDGE
ANDRADITE MTN.
UPPER SIYEH FM
MIDDLE SIYEH FM
LOWER SIYEH FM
SILL MTN.
SHEPHERD FM
PURCELL LAVA FM
SUNKIST RIDGE
SHEPHERD LAVA FLOW
HORPEN MOUNTAIN
A
A'

SECTION ALONG LINE A - A'



LEGEND

SHEPHERD FORMATION –
Brown weathering grey dolomite, stromatolitic dolomite, red and grey quartzite and siltstone; green argillite

PURCELL LAVAS –
Basaltic Andesite and trachybasalts

SIYEH FORMATION –
UPPER
Argillites, green and grey shale
MIDDLE
Dolomites and sandstones, grey and black shales and dolomites with sparse sandstone beds
LOWER
Grey and black shales and dolomites with sparse sandstone beds.

GRINNELL FORMATION –
Red argillites; white and red quartzitic sandstone

FORMATION CONTACT (known, inferred)
SILL / DYKE CONTACT (known, inferred)
DIP + STRIKE OF BEDDING
FAULT (inferred)
• 096 ROCK CHIP SAMPLE LOCATION AND NUMBER (Prefixed by TC-85-)
∘ 046 ROCK CHIP SAMPLE LOCATION AND NUMBER (Prefixed by NH-85-)

Dol – Dolomite
Di – Diorite
Slst – Siltstone
Lst – Limestone
Qtz – Quartzite
Bslt – Basalt
Trach – Trachyte

0 100 200 300 400 500
METRES

SELCO DIVISION - BP RESOURCES CANADA LIMITED

SAMBO CLAIMS
SLOCAN PROJECT - B.C.
GEOLOGY & SAMPLE LOCATIONS 1985

SCALE 1 : 5,000		DRAWN BY: T. Carpenter	FIG. 3
DATE AUGUST 1985		DRAFTED BY: L.G.	
N.T.S. 82 G / 1	PROJ. 10137	REPORT	BPVR 85-13