84-1338-13166

11/85

ASSESSMENT REPORT

STEWART 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, Ruby and Free Silver, Royal, Maggie, Jock 1 and 2 and Houlton Claims

Latitude 49° 17' North, Longitude 117° 17' West

Nelson Mining Division

Owners: Eric W. & Jack N. Denny
Annable Road, R.R. #1
Nelson, B.C.
V1L 5P4

Operators: Harp Explorco Ltd.
c/o Selco Division -
BP Resources Canada Limited
Suite 700-890 W. Pender Street
Vancouver, B.C.
V6C 1K5
(FMC 264404)

Thomas H. Carpenter
Project Geologist
BP-Selco

BPVR 84-45

December, 1984.

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF MAPS

APPENDICES

INTRODUCTION

Location

The Stewart claims are centred at approximate latitude 49°17'N and longitude 117°17'W. This location is about 28 km south of the town of Nelson, B.C. and about 4 km west of the town of Ymir, B.C. within the Nelson Mining Division. The claim group lies within the drainage basins of Stewart, Quartz, Boulder Mill and Erie Creeks.

Access

Access from Castlegar is via Highway 3 through Salmo and from Nelson via Highway 6 to Ymir. Property access is by a series of logging and forest access roads of four wheel drive standard. The Stewart Creek access is via four wheel drive in all weather while two wheel drive is adequate in dry weather. The Quartz Creek access is very steep and rugged and is passable only by four wheel drive. Access via Boulder Mill and Erie Creek is seasonal and by four wheel drive only.

Physiography

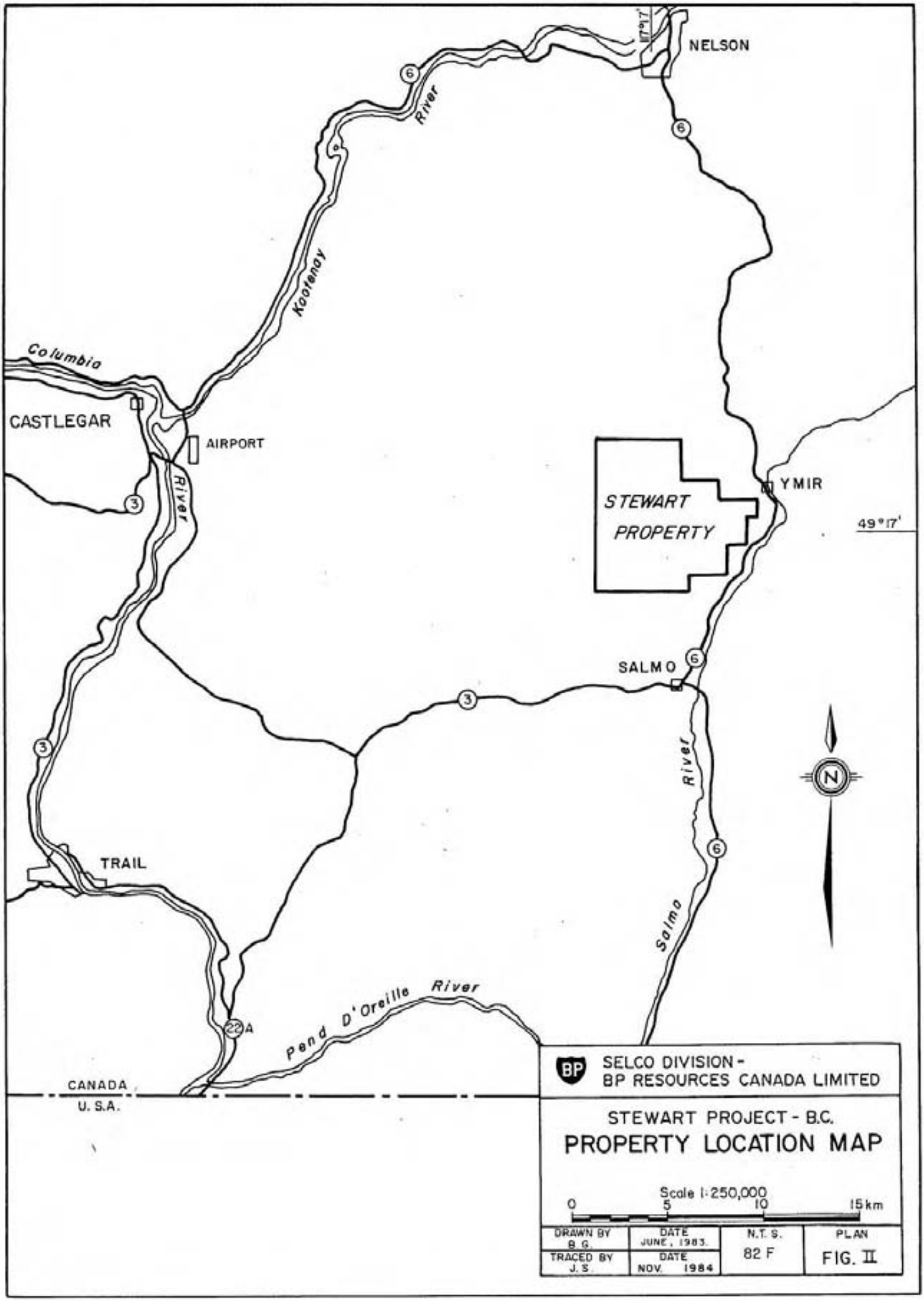
The claims are located in an area of glaciated, moderately rugged terrain with elevations between 750 metres and 1950 metres. The

SELCO DIVISION -
BP RESOURCES CANADA LIMITED

REGIONAL LOCATION MAP
STEWART-MOLY PROJECT
10138

0 100 200 300 400 500 km

DRAWN BY	DATE		FIG. I
TRACED BY	DATE		


NELSON
6
River
Kootenay
Columbia
CASTLEGAR
AIRPORT
3
River
STEWART
PROPERTY
YMIR
49°17'
SALMO
6
3
3
River
N
TRAIL
6
Salmo
22A
Pend D'Oreille River
CANADA
U.S.A.
SELCO DIVISION -
BP RESOURCES CANADA LIMITED
STEWART PROJECT - B.C.
PROPERTY LOCATION MAP
Scale 1:250,000
0
5
10
15km
DRAWN BY B.G.
DATE JUNE, 1983.
N.T.S. 82 F
PLAN FIG. II
TRACED BY J.S.
DATE NOV. 1984

ground supports a variety of vegetation in the lower sections. The summit areas are relatively devoid of trees and support only scrub brush and mosses. Areas which were logged or burned in past years are now host to dense thickets of willow and alders. Overburden is variable in thickness with considerable outcrop along the ridge lines and thick alluvium in the valley bottoms. Soil development is generally poor and is composed predominantly of weathered fines and scree from the slopes and underlying bedrock. Snowfall in the area is moderate to heavy on the higher slopes with ground bare and accessible from about May to November on the average.

History and Economic Assessment

Selco Inc. optioned the Stewart property in 1982 from Eric and Jack Denny of Nelson, B.C., as a result of regional geological evaluation. It was presumed that the property had potential as a porphyry molybdenum system and the exploration efforts of Selco were initially aimed at assessing the economic viability of the molybdenum mineralization in the area. In addition, in view of historic records indicating the presence of base and precious metals within property boundaries, an appraisal of the economic potential of the Elise Volcanics and Hall Sediments was also indicated.

The Ymir area has seen considerable exploration and prospecting for gold and base metals in the late 1800's and early 1900's. At that time there was considerable activity and many pits, trenches, adits and shafts were located on the present Stewart property and in the surrounding countryside. Many of the old properties were significant producers of gold ores and some production of base metals has been documented.

The present Stewart property is the site of the Free Silver and May Blossom properties, located for their base and precious metal potential in 1896. These properties saw intermittent activity up until about the 1930's.

The Arrow Tungsten showings were evaluated on Stewart Creek (Stewart #2), during the period of 1942 to 1952. Copper Horn Mining worked the area of Stewart #4 from 1966 to 1969 as part of their Fresno Group.

Quintana Minerals Corporaion held a large property called the Salmo Group in 1969 and 1970 which included what is now the main molybdenum showing of the Stewart Property. Quintana carried out extensive surface exploration for base and precious metals.

During the late 1970's, Eric and Jack Denny of Nelson, carried out prospecting surveys of the area and acquired mineral rights to what is now the Stewart Property. In 1979 they optioned the property to Shell Canada Resources Ltd. and Shell carried out a detailed evaluation of the property including geophysical and geochemical surveys, geological mapping and diamond drilling.

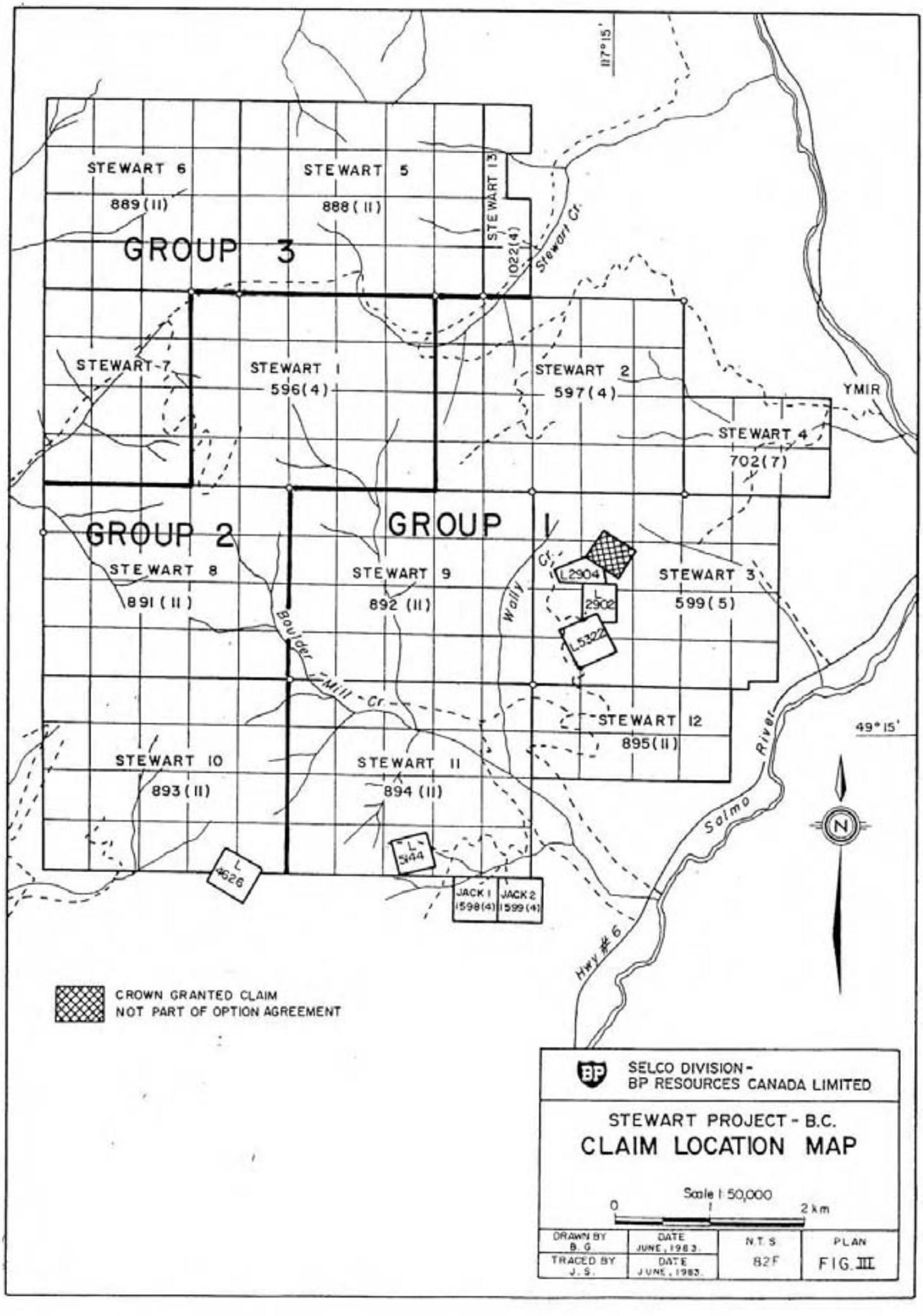
The results of their work indicated that the property was host to ore grade concentrations of molybdenum mineralization and that the potential was present to develop sufficient tonnage of ore material to warrant exploitation of the deposit. Due to economic factors, Shell dropped out of the mineral exploration scene in 1982 and the property has subsequently been evaluated and optioned by Selco Inc. Work by Selco in 1982 and 1983 sharply downgraded the potential of the property to contain economic molybdenum deposits. Consequently, work on the property is presently aimed at evaluating its gold and precious metal potential.

Stewart Property Ownership

The Stewart Property is owned by Mr. E. Denny and Mr. J. Denny of Nelson, B.C. who have optioned the property to Harp Explorco Ltd., a wholly owned company of Selco Inc. The property consists of a total of 212 claims and claim units as outlined in the schedule of lands.

Schedule of Lands

Group 1	Recording Date	Units	Record No.	Present Expiry Date
Stewart 2	April 28, 1978	20	597	1993
Stewart 3	May 8 , 1978	20	599	1993
Stewart 4	July 14 , 1978	6	702	1993
Stewart 9	Nov. 28 , 1978	20	892	1993
Stewart 11	Nov. 28 , 1978	20	894	1993
Stewart 12	Nov. 28, 1978	8	895	1993
Ruby & Free Silver	April 18, 1978	1	593	1993
Royal	April 18, 1978	1	594	1993
Maggie (LS144)	Nov. 28, 1978	1	898	1993
Jock 1	April 11, 1978	1	1598	1993
Jock 2	April 11, 1978	1	1599	1993
Group 2				
Stewart 1	April 28, 1978	20	596	1988
Stewart 8	Nov. 28 , 1978	20	891	1987
Stewart 10	Nov. 28 , 1978	20	893	1987
Houlton (L4626)	Nov. 28 , 1978	1	896	1992
Group 3				
Stewart 5	Nov. 28 , 1978	20	888	1988
Stewart 6	Nov. 28 , 1978	16	889	1988
Stewart 7	Nov. 28 , 1978	12	890	1987
Stewart 13	April 24, 1978	4	1022	1988


117°15'
STEWART 6
889(11)
STEWART 5
888(11)
STEWART 13
1022(4)
Stewart Cr.
GROUP 3
STEWART-7
STEWART 1
596(4)
STEWART 2
597(4)
YMIR
STEWART 4
702(7)
GROUP 2
GROUP 1
STEWART 8
891(11)
STEWART 9
892(11)
Wally Cr.
L 2904
L 2902
L 5322
STEWART 3
599(5)
Boulder
Mill Cr.
STEWART 12
895(11)
49°15'
STEWART 10
893(11)
STEWART 11
894(11)
Salmo River
N
L 5944
L 4626
JACK 1
1598(4)
JACK 2
1599(4)
Hwy #6
CROWN GRANTED CLAIM
NOT PART OF OPTION AGREEMENT
SELCO DIVISION -
BP RESOURCES CANADA LIMITED
STEWART PROJECT - B.C.
CLAIM LOCATION MAP
Scale 1:50,000
0
1
2 km
DRAWN BY B.G
DATE JUNE, 1983.
N.T.S 82F
PLAN FIG. III
TRACED BY J.S.
DATE JUNE, 1983.

Summary of Work

Between July 1 and September 12, 1984 Selco - A Division of BP Resources Canada Limited carried out the following work on the Stewart Claims:

a) Mapping and rock chip sampling of the claim area away from the area of interest covered by the 1983 program.
b) Soil sampling over known conductors to determine the presence or absence of associated mineralization as well as soil sampling over selected areas determined by the above mapping program. In total 320 soil samples were collected for analysis.

This work was carried out by the following personnel:

Tom Carpenter	-	Project Geologist	-	74 man/days.
Chris Nicolls	-	Field Assistant	-	66 man/days.
Lloyd Addie	-	Field Assistant	-	8 man/days.

Results of the above work are hereby submitted for assessment credit.

SURVEY OBJECTIVE AND TECHNIQUES

a) Mapping Program

A mapping program in conjunction with a rock chip sampling program was carried out predominantly over the west half of the Stewart property. The purpose of the program was:

1) to evaluate data compiled by previous operators; and
2) to evaluate the economic potential of volcanic and sedimentary rocks which underlie the majority of the property.

A copy of the mapped geology of the project area is contained in the pocket at the back of this report.

A total of 66 rock chip samples (THC-84-039 to THC-84-103) were collected at various sites over the project area. Each sample is representative of a particular rock type.

All samples were submitted to Chemex Labs Ltd. of Vancouver, B.C. for analysis by geochemical and assay methods of their Cu, Pb, Zn, and Au contents.

b) Soil Sampling Program

A soil sampling program was carried out over various geophysical conductors picked from a helicopter based Input

Electromagnetic Survey flown in 1982. The purpose of this sampling was to determine whether any of these conductors were caused by or contained base or precious metal mineralization.

As well, soil sampling was carried out over areas of geological interest defined during the mapping program.

In total 320 soil samples were collected for analysis of which 308 were submitted to Chemex Labs of Vancouver for analysis. Soil samples were also tested for Cu, Pb, Zn, and Au.

SURVEY RESULTS AND INTERPRETATION

a) Mapping Program

The mapping program confirmed the presence of a large north-south synclinal structure on the property with Elise volcanics on the east and west sides of the property and a trough of Hall Sedimentary rocks forming the central part of the property. To the north and south the Hall sediments form a syncline over 3 km in width. Between the main complex area (mapped in 1983) and the west grid area (also mapped in 1983)

the sediment pile is only 1.5 km in width. In this area, however, the sediments are probably overlain by a younger sequence of volcanics which may be equivalent to the Beaver Mountain formation as mentioned by Mulligan and others.

The Hall sediments are largely composed of graphitic argillites and conglomerates. Of the geophysical conductors evaluated, almost all are located within the Hall sediments and appear to be caused by the graphitic argillites.

Mapping has also shown that the beginning of deposition of the Hall sediments did not mean cessation of volcanic activity. In the west grid area numerous volcanic units were noted intercalated with sedimentary rocks.

Trending roughly north-south near the west margin of the property are numerous rhyolite dykes which average 1 to 15 m in width and crosscut both Elise volcanics and Hall sediments.

These rhyolite dykes are similar to dykes mapped in 1983 mapping on the east of the property and are probably part of the same dike swarm. The dykes occur cutting both the east

and west limbs of the north-south syncline but none are found near the centre of the syncline.

The rock chip sampling program shows 11 of 66 samples collected to contain elevated gold values. Of these, 4 samples (THC-84-084 to THC-84-087) are located near the portal of what is believed to be the "Black Rock" workings on a tributary of Rest Creek at the SW corner of the property.

Other anomalous chip samples are more widespread, and include one grab sample of pyrite in quartz taken from old workings at the east side of the property (THC-84-102) which contains 470 ppb Au.

Two samples (THC-84-067 and THC-84-069) occur in close proximity to each other and are proximal to a large feldspar porphyry intrusive near the north side of the property at the headwaters of Stewart Creek.

Both chip and soil sampling seem to indicate an increase in Au values as this intrusive is approached.

Sample THC-84-095 is a sample of volcanic rock collected at the Clubine-Comstock workings and contains 210 ppb Au.

Two samples THC-84-093 and THC-84-103 were collected from and near rhyolites on the SW grid. These samples contain 15 ppb and 30 ppb Au respectively.

Sample THC-84-072 was collected from a diorite west of the claim boundary near the NW corner of the property and contains 10 ppb Au. In addition this sample contains visible malachite along a fracture and assays 470 ppm Cu.

Base metal values are not spectacular. Maximum values for copper, lead and zinc are 470 ppm, 130 ppm and 4800 ppm respectively. Elevated Cu, Pb and Zn values are noted at the aforementioned "Black Rock" workings. The high zinc value (4800 ppm) consisted of sphalerite in a trenched quartz-carbonate at the headwaters of Stewart Creek.

b) Soil Sampling Program B horizon

Soil sampling over geophysical conductors showed no increase of base metal values coincidental with the axes of the conductors. Values over the conductors were sporadic with no evidence to indicate the presence of mineralization near the conductors. Of interest, however, is an increase of Au values at the west end of the soil sample line run across

conductors 5 and 6. These values appear to show an increase in Au values with proximity to the feldspar porphyry intrusive found at the west end of the line.

Other anomalous values are 60 and 85 ppb (samples 20657 and 20660) found in the vicinity of conductor #4. However, lack of outcrop in this area precludes an interpretation of these values.

In the west area samples 20719 to 20722 inclusive, collected from 4+00E to 5+00E on L3+60S, all contain slightly anomalous Au values. These samples are collected over an area of biotite-augite monzonite, which has not been previously been noted as being anomalous in Au.

Extensive soil sampling carried out on the SW grid, which covers and extends south of the "Black Rock" workings, shows this area to be anomalous in Au. These anomalies appear to be associated with rhyolite dykes which intrude argillitic rocks in this area. These anomalies are truncated where the dykes enter volcanic rocks and appear to show a preferential mineralizing event within the argillites.

Base metals in soils show values of tens of ppm for Cu and Pb while Zn values commonly run in the hundreds of ppm with a high of 1830 ppm. High values for Cu and Pb are 126 and 190 respectively. No direct correlation is evident between Cu, Pb and Zn values.

Higher zinc values, however, appear to correlate with underlying sedimentary rocks.

CONCLUSIONS AND RECOMMENDATIONS

No base or precious metal mineralization is found associated with geophysical conductors. The vast majority of these conductors are believed to be caused by graphitic argillites within the Hall sediments.

Rock chip sampling and soil sampling seem to indicate the presence of a weak halo of enriched gold values around a feldspar porphyry intrusive immediately west of the headwaters of Stewart Creek. Though of interest geologically this enrichment does not appear to be of economic interest.

Anomalous gold values are found in the vicinity of rhyolite dykes crosscutting argillitc rocks at the SW corner of the property.

Au values in soils from this area range upwards to 180 ppb and chip samples contain enhanced Au values.

This area has also been the site of exploration and mining historically as evidenced by the number of old trenches and workings in the area. Past production, however, has shown the mineralization in this area (Au in quartz veins in argillites and adjacent to aplite (rhyolite) dykes) to be somewhat spotty in nature - i.e., mineralization is usually lower grade with high grade pods within the lode.

It is doubtful whether a deposit of this type, given the steeply dipping nature of the rhyolite dykes, would be of sufficient grade and tonnage to warrant a large scale mining operation.

It is recommended that no further work be done on this property at this time.

STEWART PROJECT

ASSESSMENT FILING - 1984

Mapping and Sampling Program - $43,808.20*
PAC Account Withdrawal - 5,791.80**
Total: $49,600.00

Distribution - 10% $ 4,380.82 Group 1*
" 65% 28,475.33 Group 2*
" 25% 10,952.05 Group 3*
" - 19.18 Group 1**
" - 3,924.67 Group 2**
" - 1,847.95 Group 3**

	Claim Name	Record Date	Record No.	Units	Req'd Assessment Per Unit Per Year	Values 1 Yr. of Assessment	Current Expiry Year	Values to be Applied Mapping & Sampling & PAC Withdrawal	No. of Years to be Applied	New Expiry Year	Fees
Group 1	Stewart 2	Apr. 28/78	597	20	200	4000	1993				$
	Stewart 3	May 8/78	599	20	200	4000	1993				
	Stewart 4	Jul. 14/78	702	6	200	1200	1993				
	Stewart 9	Nov. 28/78	892	20	200	4000	1993				
	Stewart 11	Nov. 28/78	894	20	200	1600	1993	4,000	1	1994	200
	Stewart 12	Nov. 28/78	895	8	200	200	1993				
	Ruby & Free Silver	Apr. 18/78	593	1	200	200	1993				
	Royal	Apr. 18/78	594	1	200	200	1993				
	Maggie	Nov. 28/78	898	1	200	200	1993				
	Jock 1	Apr. 11/78	1598	1	200	200	1993	200	1	1994	10
	Jock 2	Apr. 11/78	1599	1	200	200	1993	200	1	1994	10
Group 2	Stewart 1	Apr. 28/78	596	20	200	4000	1988	8,000	2	1990	400
	Stewart 8	Nov. 28/78	891	20	200	4000	1987	12,000	3	1990	600
	Stewart 10	Nov. 28/78	893	20	200	4000	1987	12,000	3	1990	600
	Houlton	Nov. 28/78	896	1	200	200	1987	400	2	1994	20
Group 3	Stewart 5	Nov. 28/78	888	20	200	4000	1988	4,000	1	1989	200
	Stewart 6	Nov. 28/78	889	16	200	3200	1988	3,200	1	1989	160
	Stewart 7	Nov. 28/78	890	12	200	2400	1987	4,800	2	1989	240
	Stewart 13	Apr. 24/78	1022	4	200	800	1988	800	1	1989	40
								49,600			2,480

ITEMIZED COST STATEMENT

Mapping and Chip Sampling

1 Project Geologist	- 74 man/days @ $200/day	$17,800.00
1 Field Assistant	- 43 man/days @ $100/day	4,300.00

Soil Sampling

1 Field Assistant	- 31 man/days @ $100/day	3,100.00

Accommodation, Food, Truck and Miscellaneous Costs

Accommodation:	July 1 - September 12 74 days @ $30/day	2,220.00
Food Costs:	July 1 - September 12 74 days @ $24/day	1,776.00
Truck and Fuel Costs:	Ford 150 4 X 4 74 days @ $50/day	3,700.00
Field Supplies - Miscellaneous		600.00

Analysis Costs

Soil samples - 308 sample preparation @ $0.70/sample	215.60
308 Analyses (Cu, Pb, Zn, and Au) @ $11.20/sample	3,449.60
Sample shipping	140.00
Sample bags and shipping containers	50.80
66 Rock chip samples - preparation @ $ 2.50/sample	165.00
66 Analyses (Cu, Pb, Zn and Au) @ $ 11.20/sample	739.20

Miscellaneous Costs

-Senior Geologist - 10 days @ $250/day	2,500.00
-Report writing, map preparation, data analysis -Project geologist 15 days @ $200/day	3,000.00
-Drafting and typing services - 10 days @ $125/day	1,250.00
-Map reproduction, text reproduction, binding, etc.	400.00
-Office supplies, postage, telephone	1,400.00
TOTAL:	$43,808.20

STATEMENT OF QUALIFICATIONS

I, Thomas H. Carpenter, currently of Castlegar, B.C. hereby certify that:

1. I am a geologist with Selco - A Division of BP Resources Canada Limited.

2. I received a Bachelor of Science degree, in Geology from Memorial University of Newfoundland in 1971.

3. I have been practising my profession continuously since my graduation in 1971.

4. I did personally supervise and/or carry out the work documented in this report.

5. I hold no interest either directly or indirectly in this property.

Respectfully submitted,

Thomas H. Carpenter

T. H. Carpenter, B.Sc.

December, 1984

BIBLIOGRAPHY

Mulligan, R., 1952
Bonnington Map Area, B.C. Geologcial Survey of Canada Paper 52-13.

APPENDIX I

GEOCHEMICAL LAB PROCEDURES

GEOCHEMICAL PREPARATION
AND
ANALYTICAL PROCEDURES

1. Geochemical samples (soils, silts) are dried at 80°C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh.

2. A 1.00 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% $HClO_4$ and concentrated HNO_3. Digestion time = 2 hours.

3. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures.

4. Detection limits using Techtron A.A.5 atomic absorption unit.

	Copper	- 1 ppm
	Molybdenum	- 1 ppm
	Zinc	- 1 ppm
*	Silver	- 0.2 ppm
*	Lead	- 1 ppm
*	Nickel	- 1 ppm
*	Chromium	- 5 ppm
*	Cobalt	- 1 ppm
	Manganese	- 5 ppm
	Iron	- 2 ppm

* Ag, Pb, Co & Ni are corrected for background absorption.

5. Elements present in concentrations below the detection limits are reported as one half the detection limit, i.e. Ag - 0.1 ppm.

PPM Antimony:

A 1.0 gm sample digested with conc. HCl in hot water bath. The iron is reduced to Fe^{+2} state and the Sb complexed with I^-. The complex is extracted with TOPO-MIBK and analyzed via A.A. Correcting for background absorption 0.2 ppm ± 0.2

Detection limit: 0.2 ppm

PPM Arsenic:

A 1.0 gram sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with KI and mixed. A portion of the reduced solution is converted to arsine with $NaBH_4$ and the arsenic content determined using flameless atomic absorption.

Detection limit: 1 ppm

PPB Gold:

5 gm samples ashed @ 800°C for one hour, digested with aqua regia - twice to dryness - taken up in 25% HCl, the gold then extracted as the bromide complex into MIBK and analyzed via A.A.

Detection limit: 10 ppb

PPM Uranium

1.0 gms sample is digested with $HClO_4$ - HNO_3 acid for approximately 2 hours. An aliquot extracted with MIBK after the addition of $Al(NO_3)_3$ - TPAN solution and analyzed via conventional fluormetric procedure.

Detection limit: 0.5 ppm

PPM Tungsten:

0.50 gm sample is fused with potassium bisulfate and leached with hydrochloric acid. The reduced form of tungsten is complexed with toluene 3,4 dithiol and extracted into an organic phase. The resulting color is visually compared to similarly prepared standards.

Detection limit: 2 ppm W

PPM Tin:

1.00 gm of sample is sintered with ammonium iodide. The resulting tin iodide is leached with a dilute HCL - ascorbic acid solution. The TOPO complex is then extracted with MIBK and analyzed via A.A.

Detection limit: 1 ppm Sn

PPB Mercury:

The sample is digested with nitric acid plus a small amount of hydrochloric acid. Following digestion the resulting clear solution is transferred to a reaction flask connected to a closed system absorption cell. Stannous sulfate is rapidly added to reduce mercury to its elemental state. The mercury is then flushed out of the reaction vessel into the absorption cell where it is measured by cold vapour atomic absorption methods with a Varian Spectrophotometer. The absorbance of samples is compared with the absorbance of freshly - prepared mercury standard solutions carried through the same procedure. The detection limit of this method is 5 ppb.

Oz/Ton Ag, Au FIRE ASSAY METHOD

Silver and gold analyses are done by standard fire assay techniques. In the sample preparation stage the screens are checked for metallics which, if present, are assayed separately and calculated into the results obtained from the pulp assay.

0.5 assay ton sub samples are fused in litharge, carbonate and silicious fluxes. The lead button containing the precious metals is cupelled in a muffle furnace. The combined Ag & Au is weighed on a microbalance, parted, annealed and again weighed as Au. The difference in the two weighing is Ag.

5 ppb detection limit

CCRMP standards provided by the Department of Energy, Mines and Resources are analyzed along with each group of fourty samples for quality control. Fire assay standards are used less frequently because of the large quantity of pulp required for the analysis.

PPM BISMUTH

A 2.0 gram sample is digested with perchloric and nitric acid to strong fumes (2 hrs). The solution cooled and additional hydrochloric acid added. After the addition of KI and the reduction of iron the solution is extracted with MIBK-aliquot 336 and analyzed via standard AA procedure correcting for background absorption.

CHEMEX LABS LTD.
212 BROOKSBANK AVENUE, NORTH VANCOUVER, B.C. V7J 2C1
PHONE (604) 984-0221 TELEX 04-352597

Group	Parameter (Units)	Code
0	Soil & Sediment -80 mesh	201
0	(Au) Soil & Sed -80 mesh	202
0	-35 mesh sieve & ring	203
0	-80 mesh sieve & ring	204
0	Rock geochem - ring	205
0	Lake sediment - ring	206
0	Assay - pulverize	207
0	Assay - ring	208
0	High grade assay - Ring	209
0	Wiley Mill (geochem)	210
0	Wiley Mill (envir.)	211
0	Pulp composite	212
0	Heavy Min. Sep. SG 3.0	213
0	Bag pulp	214
0	Water - filter/acidify	215
0	Overweight charges	216
0	Soil-ring (no sieve)	217
0	Pulverize only	218

APPENDIX II

ANALYTICAL PROCEDURES

Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Telephone:(604) 984-0221
Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD

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

Box 3488
2327 - 6th Ave
Castlegar BC V1N 3W3

CC: T. CARPENTER

CERT. # : A8416098-001-A
INVOICE # : I8416098
DATE : 22-SEP-84
P.O. # : NONE
10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
THC-84-038	205	74	5	57	<5	--	--
THC-84-040	205	6	20	22	<5	--	--
THC-84-041	205	60	6	80	<5	--	--
THC-84-042	205	140	13	143	<5	--	--
THC-84-043	205	95	2	75	<5	--	--
THC-84-044	205	4	32	81	<5	--	--
THC-84-045	205	49	1	110	<5	--	--
THC-84-046	205	76	3	130	<5	--	--
THC-84-047	205	38	2	143	<5	--	--
THC-84-048	205	35	1	52	<5	--	--
THC-84-049	205	41	2	88	<5	--	--
THC-84-050	205	53	6	105	<5	--	--
THC-84-051	205	91	7	50	<5	--	--
THC-84-052	205	47	4	93	<5	--	--
THC-84-053	205	107	4	75	<5	--	--
THC-84-054	205	33	7	50	<5	--	--
THC-84-055	205	5	30	50	<5	--	--
THC-84-056	205	56	3	68	<5	--	--
THC-84-057	205	100	2	72	<5	--	--
THC-84-058	205	4	25	29	<5	--	--
THC-84-060	205	71	4	52	<5	--	--
THC-84-061	205	52	4	67	<5	--	--
THC-84-062	205	20	2	80	<5	--	--
THC-84-064	205	61	2	103	<5	--	--
THC-84-065	205	27	19	82	<5	--	--
THC-84-066	205	56	33	16	<5	--	--
THC-84-067	205	52	1	18	210	--	--
THC-84-070	205	250	1	34	5	--	--
THC-84-071	205	250	1	32	<5	--	--
THC-84-072	205	470	2	50	10	--	--
THC-84-073	205	80	6	85	<5	--	--
THC-84-074	205	43	23	95	<5	--	--
THC-84-075	205	58	5	69	<5	--	--
THC-84-076	205	20	1	70	<5	--	--
THC-84-077	205	71	3	59	<5	--	--
THC-84-079	205	24	3	62	<5	--	--
THC-84-081	205	54	10	97	<5	--	--
THC-84-082	205	4	88	140	<5	--	--
THC-84-087 A	205	12	4	118	<5	--	--
STD-01	214	212	48	182	<5	--	--

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Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD

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

CC: T. CARPENTER

CERT. # : A8416098-002-A
INVOICE # : I8416098
DATE : 22-SEP-84
P.O. # : NONE
10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
THC-84-088	205	44	5	63	<5	--	--
THC-84-089	205	58	5	37	<5	--	--
THC-84-090	205	3	40	31	<5	--	--
THC-84-093	205	3	13	92	<5	--	--
THC-84-095	205	280	8	52	210	--	--
THC-84-096	205	43	5	60	<5	--	--
THC-84-097	205	76	3	70	5	--	--
THC-84-098	205	16	1	28	<5	--	--
THC-84-099	205	51	49	183	<5	--	--
THC-84-100	205	60	5	68	<5	--	--
THC-84-101	205	7	8	53	<5	--	--
THC-84-102	205	275	52	32	470	--	--
THC-84-103	205	61	30	790	30	--	--
RE THC-84-038	214	75	4	52	<5	--	--
STD-01	214	225	47	185	350	--	--

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TO : SELCO MINING CORPORATION LTD

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

CC: TOM CARPENTER

CERT. # : A8414297-002-A
INVOICE # : I8414297
DATE : 8-AUG-84
P.O. # : NONE
STEWART-10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
20640	202	35	25	233	5	--	--
20641	202	48	14	214	10	--	--
20642	202	51	21	300	<5	--	--
20643	202	36	9	132	<5	--	--
20644	202	46	9	163	15	--	--
20645	202	55	10	244	10	--	--
20646	202	43	11	180	35	--	--
20647	202	44	6	183	<5	--	--
20648	202	87	15	380	<5	--	--
20649	202	56	24	100	<5	--	--
20650	202	84	40	147	<5	--	--
0651	202	74	13	100	<5	--	--
20652	202	70	26	106	<5	--	--
20653	202	65	15	122	<5	--	--
20654	202	36	12	200	<5	--	--
20655	202	60	16	171	5	--	--
20656	202	64	34	121	<5	--	--
20657	202	49	12	163	60	--	--
20658	202	34	11	125	<5	--	--
20659	202	31	20	137	<5	--	--
20660	202	39	17	179	85	--	--
20661	202	67	14	295	<5	--	--
20662	202	57	15	216	<5	--	--
20663	202	51	30	237	<5	--	--
20664	202	51	16	190	5	--	--
20665	202	49	12	199	<5	--	--
20666	202	43	15	146	<5	--	--
20667	202	50	9	109	5	--	--
20668	202	43	17	237	<5	--	--
20669	202	43	12	248	<5	--	--
20670	202	54	16	484	<5	--	--
20671	202	46	11	286	<5	--	--
20672	202	38	8	158	<5	--	--
20673	202	37	15	153	<5	--	--
20674	202	38	13	220	<5	--	--
20675	202	44	11	166	20	--	--
0676	202	102	22	335	<5	--	--
20677	202	56	18	300	<5	--	--
20678	202	36	9	165	10	--	--
STD-01	202	220	49	178	215	--	--

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TO : SELCO MINING CORPORATION LTD

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

CC: TOM CARPENTER

CERT. # : A8414297-003-.
INVOICE # : I8414297
DATE : 8-AUG-84
P.O. # : NONE
STEWART-10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
20679	202	53	8	188	<5	--	--
20680	202	43	8	216	<5	--	--
20681	202	53	8	252	<5	--	--
20682	202	85	12	300	<5	--	--
20683	202	65	18	220	<5	--	--
20684	202	75	33	273	5	--	--
20685	202	75	16	200	<5	--	--
20686	202	61	15	149	<5	--	--
20687	202	51	13	187	<5	--	--
20688	202	46	12	200	<5	--	--
20689	202	83	115	850	<5	--	--
20690	202	55	30	300	<5	--	--
20691	202	37	12	157	<5	--	--
20692	202	42	16	225	<5	--	--
20693	202	34	40	120	<5	--	--
20694	202	43	12	85	<5	--	--
20695	202	56	12	118	<5	--	--
20696	202	55	12	124	<5	--	--
20697	202	64	20	207	<5	--	--
20698	202	59	56	180	<5	--	--
20699	202	46	18	182	<5	--	--
20700	202	50	13	158	<5	--	--
20701	202	60	26	125	<5	--	--
20702	202	47	85	200	<5	--	--
20703	202	46	41	230	<5	--	--
20704	202	52	190	303	<5	--	--
20705	202	56	10	131	<5	--	--
20706	202	62	10	190	<5	--	--
20707	202	52	17	129	<5	--	--
20708	202	71	23	290	<5	--	--
20709	202	36	17	95	<5	--	--
20710	202	66	28	162	<5	--	--
20711	202	48	26	132	<5	--	--
20712	202	47	19	169	<5	--	--
20713	202	51	40	170	<5	--	--
20714	202	50	34	175	<5	--	--
0715	202	46	51	178	<5	--	--
20716	202	51	43	240	<5	--	--
20717	202	40	14	152	<5	--	--
STD-01	202	210	48	175	160	--	--

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

CERT. # : A8414297-004-.
INVOICE # : I8414297
DATE : 8-AUG-84
P.O. # : NONE
STEWART-10138

CC: TOM CARPENTER

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
20718	202	38	24	179	<5	--	--
20719	202	54	30	217	25	--	--
20720	202	39	29	228	15	--	--
20721	202	66	57	196	10	--	--
20722	202	56	54	174	10	--	--
20723	202	66	27	186	<5	--	--
20724	202	62	20	282	<5	--	--
20725	202	53	16	241	<5	--	--
20726	202	51	30	288	5	--	--
20727	202	54	13	258	<5	--	--
20728	202	59	15	216	<5	--	--
20729	202	66	14	233	<5	--	--
20730	202	78	26	257	<5	--	--
20731	202	102	18	310	<5	--	--
20732	202	107	40	400	<5	--	--
20733	202	87	24	331	<5	--	--
20734	202	76	17	217	<5	--	--
20735	202	50	21	226	<5	--	--
20736	202	54	11	210	<5	--	--
20737	202	53	30	350	<5	--	--
20738	202	126	41	700	<5	--	--
20739	202	86	40	400	<5	--	--
20740	202	49	47	320	<5	--	--
20741	202	83	62	300	<5	--	--
20742	202	80	60	388	5	--	--
20743	202	83	65	413	<5	--	--
20744	202	53	37	355	<5	--	--
20745	202	38	26	265	20	--	--
20746	202	46	36	265	<5	--	--
20747	202	53	37	320	<5	--	--
20748	202	73	60	300	<5	--	--
20749	202	57	40	495	<5	--	--
20750	202	90	50	265	<5	--	--
20751	202	61	41	260	<5	--	--
20752	202	46	68	265	15	--	--
20753	202	39	47	240	<5	--	--
20754	202	44	55	170	<5	--	--
20755	202	50	59	200	<5	--	--
20756	202	55	45	495	<5	--	--
STD-01	202	215	49	178	255	--	--

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

CC: TOM CARPENTER

CERT. # : A8414297-005-
INVOICE # : I8414297
DATE : 8-AUG-84
P.O. # : NONE
STEWART-10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
20757	202	59	48	430	<5	--	--
20758	202	66	60	675	<5	--	--
20759	202	58	60	590	<5	--	--
20760	202	78	33	325	<5	--	--
20761	202	55	51	665	<5	--	--
20762	202	67	32	625	<5	--	--
RE 20601	202	39	33	270	<5	--	--
STD-01	202	215	48	175	170	--	--

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V6C 1K5

c/o Selco-BP
P.O. Box 3488
6th Avenue
Castelgar, BC V1N 3W3

CC: T. CARPENTER ✓

CERT. # : A8415054-001-.
INVOICE # : I8415054
DATE : 24-AUG-84
P.O. # : 10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
20763	202	81	46	1830	<5	--	--
20764	202	81	32	850	<5	--	--
20765	202	69	35	840	<5	--	--
20766	202	84	22	670	<5	--	--
20767	202	60	38	415	<5	--	--
20768	202	63	21	265	<5	--	--
20769	202	54	28	325	<5	--	--
20770	202	55	27	900	<5	--	--
20771	202	70	40	700	<5	--	--
20772	202	62	20	850	<5	--	--
20773	202	71	27	460	<5	--	--
20774	202	58	20	355	<5	--	--
20775	202	82	27	545	<5	--	--
20776	202	94	34	620	<5	--	--
20777	202	84	23	800	<5	--	--
20778	202	112	27	1080	<5	--	--
20779	202	39	43	420	<5	--	--
20780	202	104	54	338	<5	--	--
20781	202	83	51	365	45	--	--
20782	202	94	45	450	10	--	--
20783	202	104	45	400	<5	--	--
20784	202	79	31	525	<5	--	--
20785	202	62	37	435	<5	--	--
20786	202	61	34	330	20	--	--
20787	202	64	44	480	<5	--	--
20788	202	78	32	540	15	--	--
20789	202	64	21	400	<5	--	--
20790	202	46	33	405	<5	--	--
20791	202	31	22	420	20	--	--
20792	202	57	33	700	70	--	--
20793	202	53	17	750	<5	--	--
20794	202	58	44	440	<5	--	--
20795	202	52	33	360	<5	--	--
20796	202	87	44	378	30	--	--
20797	202	60	34	510	<5	--	--
20798	202	61	34	435	<5	--	--
20799	202	56	29	380	5	--	--
20800	202	62	33	510	<5	--	--
20801	202	56	37	670	<5	--	--
STD-01	214	220	46	185	160	--	--

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

CC: T. CARPENTER

CERT. # : A8415054-002-
INVOICE # : I8415054
DATE : 24-AUG-84
P.O. # : 10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
20802	202	96	36	440	30	--	--
20803	202	71	39	424	10	--	--
20804	202	48	27	350	100	--	--
20805	202	57	15	590	<5	--	--
20806	202	41	28	840	<5	--	--
20807	202	31	28	665	<5	--	--
20808	202	63	37	443	15	--	--
20809	202	71	32	345	10	--	--
20810	202	116	46	385	20	--	--
20811	202	63	63	470	55	--	--
20812	202	44	60	480	30	--	--
20813	202	44	42	1480	<5	--	--
20814	202	60	28	1600	<5	--	--
20815	202	50	26	730	<5	--	--
20816	202	60	24	530	<5	--	--
20817	202	64	25	320	10	--	--
20818	202	70	26	340	<5	--	--
20819	202	41	25	520	<5	--	--
20820	202	63	22	720	<5	--	--
20821	202	40	20	795	25	--	--
20822	202	44	18	485	20	--	--
20823	202	45	30	410	25	--	--
20824	202	78	30	395	35	--	--
20825	202	71	37	335	30	--	--
20826	202	49	40	358	35	--	--
20827	202	40	30	440	10	--	--
20828	202	39	32	560	5	--	--
20829	202	49	34	420	10	--	--
20830	202	45	32	700	5	--	--
20831	202	68	38	420	5	--	--
20832	202	71	19	440	20	--	--
20833	202	64	13	730	20	--	--
20834	202	47	31	800	<5	--	--
20835	202	68	23	510	<5	--	--
20836	202	70	25	535	10	--	--
RE20763	214	79	45	1730	<5	--	--
STD-01	214	215	48	182	200	--	--

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

Box 3488
2327 - 6th Ave
Castlegar BC V1N 3W3

CC: T. CARPENTER ✓

CERT. # : A8416097-001-A
INVOICE # : I8416097
DATE : 22-SEP-84
P.O. # : NONE
10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
20837	202	85	36	97	15	--	--
20838	202	65	83	235	10	--	--
20839	202	68	26	100	15	--	--
20840	202	30	17	72	<5	--	--
20841	202	55	23	120	<5	--	--
20842	202	48	18	157	5	--	--
20843	202	214	34	130	100	--	--
20844	202	260	45	138	40	--	--
20845	202	155	60	142	60	--	--
20846	202	78	30	214	15	--	--
20847	202	82	57	238	35	--	--
20848	202	58	29	245	10	--	--
20849	202	68	25	250	60	--	--
20850	202	64	21	225	15	--	--
20851	202	48	14	148	5	--	--
20852	202	77	44	170	40	--	--
20853	202	76	38	185	55	--	--
20854	202	68	30	178	15	--	--
20855	202	80	26	215	95	--	--
20856	202	75	25	170	95	--	--
20857	202	70	45	245	20	--	--
20858	202	90	25	456	<5	--	--
20859	202	55	21	533	30	--	--
20860	202	64	17	260	<5	--	--
20861	202	36	30	600	<5	--	--
20862	202	42	34	475	<5	--	--
20863	202	40	43	390	<5	--	--
20864	202	40	32	538	<5	--	--
20865	202	64	49	660	<5	--	--
20866	202	63	31	535	<5	--	--
20867	202	52	28	758	<5	--	--
20868	202	51	26	775	<5	--	--
20869	202	77	38	405	<5	--	--
20870	202	49	26	650	<5	--	--
20871	202	78	29	650	<5	--	--
20872	202	36	54	340	<5	--	--
20873	202	45	23	650	<5	--	--
20874	202	36	40	710	<5	--	--
20875	202	48	47	468	180	--	--
STD-01	214	220	49	195	370	--	--

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TO : SELCO MINING CORPORATION LTD

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

CC: T. CARPENTER

CERT. # : A8416097-002-.
INVOICE # : I8416097
DATE : 22-SEP-84
P.O. # : NONE
10138

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb FA+AA		
20876	202	62	53	615	10	--	--
20877	202	48	22	762	<5	--	--
20878	202	36	32	640	<5	--	--
20879	202	49	21	820	<5	--	--
20880	202	39	22	595	<5	--	--
20881	202	65	26	500	<5	--	--
20882	202	39	21	515	<5	--	--
20883	202	58	56	655	<5	--	--
20884	202	44	72	700	<5	--	--
20885	202	38	54	540	30	--	--
20886	202	94	48	580	<5	--	--
20887	202	41	19	585	<5	--	--
20888	202	56	69	540	<5	--	--
20889	202	47	74	690	30	--	--
20890	202	47	24	760	35	--	--
20891	202	37	16	1000	<5	--	--
20892	202	42	30	590	5	--	--
20893	202	38	21	910	15	--	--
20894	202	34	38	575	<5	--	--
20895	202	42	37	723	<5	--	--
20896	202	65	26	550	<5	--	--
20897	202	53	31	600	<5	--	--
20898	202	45	43	705	<5	--	--
20899	202	55	22	635	15	--	--
20900	202	29	27	510	<5	--	--
20901	202	35	27	555	<5	--	--
20902	202	36	28	740	15	--	--
20903	202	34	105	605	30	--	--
20904	202	60	18	1100	10	--	--
20905	202	36	18	1050	<5	--	--
20906	202	58	20	600	<5	--	--
20907	202	36	22	553	5	--	--
20908	202	26	21	642	<5	--	--
RE 20837	214	89	37	110	10	--	--
STD-01	214	220	48	185	350	--	--

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481 000 E

482 000 E

483 000 E

484 000 E

5461 000 N

5460 000 N

5459 000 N

CLAIM BOUNDARY

TO NELSON
27.5 km

GREAT NORTHERN RAILROAD

Granodiorite

Creek

Siwolf

Quartz Creek

SALMO RIVER

TOWN OF YMIR

TO SALMO
10.0 km

APPROXIMATE BOUNDARY OF 1982 & 1983 MAPPING, INCLUDED FOR COMPLETENESS OF 1984 DATA

LEGEND

TERTIARY (Eocene or Later)

POST CORYELL

- 5a RHYOLITE DIKES
- 5b BASALT/DIABASE (DOLERITE) DIKES
- 5c LAMPROPHYRE
- 5d GABBRO (May be Contemporaneous with 4a & 4b)
- 5e DIORITE

CORYELL PLUTONIC ROCKS

- 4a FELSITE
- 4b BIOTITE PORPHYRY
- 4c BIOTITE AUGITE MONZONITE & FINE GRAINED EQUIVALENTS

LOWER CRETACEOUS

NELSON PLUTONIC ROCKS

- 3a PHASE II BRECCIA
- 3b APLITE OR LARGELY APLITIC OUTCROP
- 3c PHASE I BRECCIA
- 3dIII QUARTZ MONZONITE PORPHYRY-SOUTHERN STOCK
- 3dII QUARTZ MONZONITE PORPHYRY-QUARTZ EYE PORPHYRY
- 3dI QUARTZ MONZONITE PORPHYRY-NORTH STOCK
- 3d QUARTZ MONZONITE PORPHYRY-UNDIFFERENTIATED
- 3e FELOSPAR PORPHYRY

MIDDLE & UPPER JURASSIC

HALL FORMATION

- 2a ARGILLITE
- 2b SILTSTONE
- 2c CONGLOMERATE
- 2d INTERCALATED ARGILLITE & CONGLOMERATE
- 2e UNDIFFERENTIATED

LOWER JURASSIC

ELSIE (ROSSLAND) VOLCANICS

- 1a BASALT/ANDESITE FLOW
- 1b AGGLOMERATE
- 1c FELOSPAR-HORNBLENDE PORPHYRY - GABBROIC IN APPEARANCE.
- 1d VOLCANICS (Undifferentiated)
- 1e PYRITIC PALE BROWN WEATHERING LIMY ROCK - POSSIBLE DACITE OR ALTERED VOLCANIC.

GEOLOGICAL SYMBOLS

- OUTCROP
- JOINTING (Inclined, Vertical)
- BEDDING (Inclined, Vertical)
- FOLIATION (Inclined, Vertical)
- GEOLOGICAL CONTACTS (Known, Inferred)
- FAULT ZONE
- STRIKE & DIP OF FAULT ZONE
- DIAMOND DRILL HOLE LOCATION
- BOUNDARY OF QUARTZ STOCKWORK & POTASSIC ALTERATION ZONE
- MoS_2 OCCURRENCE
- SHAFT
- ADIT (OPEN, CAVED)
- TRENCH
- Cpy CHALCOPYRITE
- Gn GALENA
- Sp SPHALERITE
- Py PYRITE
- MAIN ACCESS ROAD
- FOUR WHEEL DRIVE ROAD
- TRAIL
- STREAM
- ANOM #1 CONDUCTOR & NUMBER

METRES 100 0 100 200 300 400

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,166

SELCO DIVISION -
BP RESOURCES CANADA LIMITED

STEWART PROJECT - B. C.

GEOLOGY
1984

SCALE 1 : 5000		DRAWN BY: T. CARPENTER	FIG. 4
DATE NOVEMBER 1984		DRAFTED BY: S. G.	
N.T.S. 82 F/3,6	PROJ. 10138	REPORT BPVR 84-45	

5458 000 N

5457 000N

5456 000N

5455 000N

5454000N

CLAIM BOUNDARY

APPROXIMATE BOUNDARY OF 1982 & 1983 MAPPING, INCLUDED FOR COMPLETENESS OF 1984 DATA

CLAIM BOUNDARY

THC-84-102

Collapsed Cabins

THC-84-097

Collapsed bridge

0.3m rhyolite volcanic

THC-84-095

THC-84-096

dump

Boulder Mill Creek

GREAT NORTHERN RAILROAD

S A L M O

R I V E R

TO SALMO 8.0 km

481 000 E

482 000 E

483 000 E

484 000 E

LEGEND

TERTIARY (Eocene or Later)

POST COryELL

- 5a RHYOLITE DIKES
- 5b BASALT/DIABASE (DOLERITE) DIKES
- 5c LAMPROPHYRE
- 5d GABBRO (May be Contemporaneous with 4a & 4b)
- 5e DIORITE

CORYELL PLUTONIC ROCKS

- 4a FELSITE
- 4b BIOTITE PORPHYRY
- 4c BIOTITE AUGITE MONZONITE & FINE GRAINED EQUIVALENTS

LOWER CRETACEOUS

NELSON PLUTONIC ROCKS

- 3a PHASE II BRECCIA
- 3b APLITE OR LARGELY APLITIC OUTCROP
- 3c PHASE I BRECCIA
- 3dIII QUARTZ MONZONITE PORPHYRY-SOUTHERN STOCK
- 3dII QUARTZ MONZONITE PORPHYRY-QUARTZ EYE PORPHYRY
- 3dI QUARTZ MONZONITE PORPHYRY-NORTH STOCK
- 3d QUARTZ MONZONITE PORPHYRY-UNDIFFERENTIATED
- 3e FELDSPAR PORPHYRY

MIDDLE & UPPER JURASSIC

HALL FORMATION

- 2a ARGILLITE
- 2b SILTSTONE
- 2c CONGLOMERATE
- 2d INTERCALATED ARGILLITE & CONGLOMERATE
- 2e UNDIFFERENTIATED

LOWER JURASSIC

ELISE (ROSSLAND) VOLCANICS

- 1a BASALT/ANDESITE FLOW
- 1b AGGLOMERATE
- 1c FELDSPAR-HORNBLENDE PORPHYRY - GABBROIC IN APPEARANCE.
- 1d VOLCANICS (Undifferentiated)
- 1e PYRITIC PALE BROWN WEATHERING LIMY ROCK - POSSIBLE DACITE OR ALTERED) VOLCANIC.

GEOLOGICAL SYMBOLS

- OUTCROP
- JOINTING (Inclined, Vertical)
- BEDDING (Inclined, Vertical)
- FOLIATION (Inclined, Vertical)
- GEOLOGICAL CONTACTS (Known, Inferred)
- FAULT ZONE
- STRIKE & DIP OF FAULT ZONE
- DIAMOND DRILL HOLE LOCATION
- BOUNDARY OF QUARTZ STOCKWORK & POTASSIC ALTERATION ZONE
- MoS_2 OCCURRENCE
- SHAFT
- ADIT (OPEN, CAVED)
- TRENCH
- Cpy CHALCOPYRITE
- Gn GALENA
- Sp SPHALERITE
- Py PYRITE
- MAIN ACCESS ROAD
- FOUR WHEEL DRIVE ROAD
- TRAIL
- STREAM
- ANOM #1 CONDUCTOR & NUMBER

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,166

METRES

100 0 100 200 300 400

SELCO DIVISION - BP RESOURCES CANADA LIMITED

STEWART PROJECT - B. C.

GEOLOGY 1984

SCALE 1 : 5000		DRAWN BY: T. CARPENTER	FIG. 5
DATE NOVEMBER 1984		DRAFTED BY: S. G.	
N.T.S. 82 F / 3,6	PROJ. 10138	REPORT BPVR 84-45	

477 000 E | 478 000 E | 479 000 E | 480 000 E

CLAIM BOUNDARY

5461 000 N | 5460 000 N | 5459 000 N

ANOM #4 | ANOM #5 | ANOM #6 | ANOM #9 | ANOM #14 | ANOM #13 | ANOM #8 | ANOM #3

THC-84-074 | THC-84-044 | THC-84-043 | THC-84-042 | THC-84-040 | THC-84-041 | THC-84-047 | THC-84-046 | THC-84-045 | THC-84-039 | THC-84-038 | THC-84-100 | THC-84-101 | THC-84-068 | THC-84-067 | THC-84-066 | THC-84-065 | THC-84-064 | THC-84-070 | THC-84-071 | THC-84-069 | THC-84-099 | THC-84-077 | THC-84-076 | THC-84-053 | THC-84-054 | THC-84-052 | THC-84-050 | THC-84-051 | THC-84-049 | THC-84-048 | THC-84-098

Cpy, Py | Fsld porph | 2a in trench | Hornfelsic | Limy 2c | Limy dark grey rock with carbon material Basaltic in appearance | Argillite - possible sedimentary unit within Elise Volcanics | Cherty horizon | Volc | dike

APPROXIMATE BOUNDARY OF 1982 & 1983 MAPPING, INCLUDED FOR COMPLETENESS OF 1984 DATA

LEGEND

TERTIARY (Eocene or Later)

POST CORYELL

- 5a RHYOLITE DIKES
- 5b BASALT/DIABASE (DOLERITE) DIKES
- 5c LAMPROPHYRE
- 5d GABBRO (May be Contemporaneous with 4a & 4b)
- 5e DIORITE

CORYELL PLUTONIC ROCKS

- 4a FELSITE
- 4b BIOTITE PORPHYRY
- 4c BIOTITE AUGITE MONZONITE & FINE GRAINED EQUIVALENTS

LOWER CRETACEOUS

NELSON PLUTONIC ROCKS

- 3a PHASE II BRECCIA
- 3b APLITE OR LARGELY APLITIC OUTCROP
- 3c PHASE I BRECCIA
- 3dIII QUARTZ MONZONITE PORPHYRY-SOUTHERN STOCK
- 3dII QUARTZ MONZONITE PORPHYRY-QUARTZ EYE PORPHYRY
- 3dI QUARTZ MONZONITE PORPHYRY-NORTH STOCK
- 3d QUARTZ MONZONITE PORPHYRY-UNDIFFERENTIATED
- 3e FELDSPAR PORPHYRY

MIDDLE & UPPER JURASSIC

HAUL FORMATION

- 2a ARGILLITE
- 2b SILTSTONE
- 2c CONGLOMERATE
- 2d **INTERCALATED ARGILLITE CONGLOMERATE**
- 2e **UNDIFFENTIATED**

LOWER JURASSIC

ELISE (ROSSLAND) VOLCANICS

- 1a BASALT/ANDESITE FLOW
- 1b AGGLOMERATE
- 1c FELDSPAR-HORNBLENDE PORPHYRY - GABBROIC IN APPEARANCE.
- 1d VOLCANICS (Undifferentiated)
- 1e PYRITIC PALE BROWN WEATHERING LINY ROCK - POSSIBLE DACITE OR ALTERED VOLCANIC.

GEOLOGICAL SYMBOLS

- OUTCROP
- JOINTING (Inclined, Vertical)
- BEDDING (Inclined, Vertical)
- FOLIATION (Inclined, Vertical)
- GEOLOGICAL CONTACTS (Known, Inferred)
- FAULT ZONE
- STRIKE & DIP OF FAULT ZONE
- DIAMOND DRILL HOLE LOCATION
- BOUNDARY OF QUARTZ STOCKWORK & POTASSIC ALTERATION ZONE
- MoS_2 OCCURRENCE
- SHAFT
- ADIT (OPEN, CAVED)
- TRENCH
- Cpy CHALCOPYRITE
- Ga GALENA
- Sp SPHALERITE
- Py PYRITE
- MAIN ACCESS ROAD
- FOUR WHEEL DRIVE ROAD
- TRAIL
- STREAM
- ANOM #1 CONDUCTOR & NUMBER

METRES 100 0 100 200 300 400

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,166

SELCO DIVISION - BP RESOURCES CANADA LIMITED

STEWART PROJECT - B. C.

GEOLOGY 1984

SCALE 1 : 5000		DRAWN BY: T. CARPENTER	FIG. 6
DATE NOVEMBER 1984		DRAFTED BY: S. G.	
N.T.S. 82 F / 3,6	PROJ. 10138	REPORT BPVR 84-45	

APPROXIMATE BOUNDARY OF 1982 & 1983 MAPPING, INCLUDED FOR COMPLETENESS OF 1984 DATA

ANOM # 2

ANOM # 11

ANOM # 12

ANOM # 10

"BLACK ROCK" or "TRIXIE V" WORKINGS

"GOLD HILL" WORKINGS

THC-84-060
THC-84-059
THC-84-058
THC-84-057
THC-84-062
THC-84-063
THC-84-061
THC-84-055,056
THC-84-084
THC-84-085-86-87A
THC-84-082
THC-84-083
THC-84-088
THC-84-089
THC-84-090
THC-84-103
THC-84-094
Area Bulldozed
THC-84-093
Mine Dump
THC-84-092
THC-84-091

Py, Sp, Gn

Boulder Mill Creek

Mill Creek

CLAIM BOUNDARY

5458000 N
5457000 N
5456000 N
5455000 N
5454000 N

476 000 E
477 000 E
478 000 E
479 000 E
480 000 E

LEGEND

TERTIARY (Eocene or Later)

POST CORYELL

- 5a RHYOLITE DIKES
- 5b BASALT/DIABASE (DOLERITE) DIKES
- 5c LAMPROPHYRE
- 5d GABBRO (May be Contemporaneous with 4a & 4b)
- 5e DIORITE

CORYELL PLUTONIC ROCKS

- 4a FELSITE
- 4b BIOTITE PORPHYRY
- 4c BIOTITE AUGITE MONZONITE & FINE GRAINED EQUIVALENTS

LOWER CRETACEOUS

NELSON PLUTONIC ROCKS

- 3a PHASE II BRECCIA
- 3b APLITE OR LARGELY APLITIC OUTCROP
- 3c PHASE I BRECCIA
- 3dIII QUARTZ MONZONITE PORPHYRY-SOUTHERN STOCK
- 3dII QUARTZ MONZONITE PORPHYRY-QUARTZ EYE PORPHYRY
- 3dI QUARTZ MONZONITE PORPHYRY-NORTH STOCK
- 3d QUARTZ MONZONITE PORPHYRY-UNDIFFERENTIATED
- 3e FELDSPAR PORPHYRY

MIDDLE & UPPER JURASSIC

HALL FORMATION

- 2a ARGILLITE
- 2b SILTSTONE
- 2c CONGLOMERATE
- 2d INTERCALATED ARGILLITE & CONGLOMERATE
- 2e UNDIFFERENTIATED

LOWER JURASSIC

ELISE (ROSSLAND) VOLCANICS

- 1a BASALT/ANDESITE FLOW
- 1b AGGLOMERATE
- 1c FELDSPAR-HORNBLENDE PORPHYRY - GABBROIC IN APPEARANCE.
- 1d VOLCANICS (Undifferentiated)
- 1e PYRITIC PALE BROWN WEATHERING LIMY ROCK - POSSIBLE DACITE OR ALTERED VOLCANIC.

GEOLOGICAL SYMBOLS

- OUTCROP
- JOINTING (Inclined, Vertical)
- BEDDING (Inclined, Vertical)
- FOLIATION (Inclined, Vertical)
- GEOLOGICAL CONTACTS (Known, Inferred)
- FAULT ZONE
- STRIKE & DIP OF FAULT ZONE
- DIAMOND DRILL HOLE LOCATION
- BOUNDARY OF QUARTZ STOCKWORK & POTASSIC ALTERATION ZONE
- MoS_2 OCCURRENCE
- SHAFT
- ADIT (OPEN, CAVED)
- TRENCH
- Cpy CHALCOPYRITE
- Gn GALENA
- Sp SPHALERITE
- Py PYRITE
- MAIN ACCESS ROAD
- FOUR WHEEL DRIVE ROAD
- TRAIL
- STREAM
- ANOM # 1 CONDUCTOR & NUMBER

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,166

METRES
100 0 100 200 300 400

SELCO DIVISION - BP RESOURCES CANADA LIMITED

STEWART PROJECT - B. C.

GEOLOGY 1984

SCALE 1 : 5000		DRAWN BY: T. CARPENTER	FIG. 7
DATE NOVEMBER 1984		DRAFTED BY: S. G.	
N.T.S. 82 F / 3,6	PROJ. 10138	REPORT BPVR 84-45	

477 000 E | 478 000 E | 479 000 E | 480 000 E

CLAIM BOUNDARY

5461 000 N | 5460 000 N | 5459 000 N

THC-84-074 | THC-84-043 | Cpy, Py | THC-84-042 | THC-84-041 | THC-84-040 | Feld porph. | 2a in trench | THC-84-047 | THC-84-045 | THC-84-046 | THC-84-039 | Hornfelsic | THC-84-058 | THC-84-100 | THC-84-101 | THC-84-088 | THC-84-087 | THC-84-069 | THC-84-099 | THC-84-086 | THC-84-085 | THC-84-064 | THC-84-070 | THC-84-071 | THC-84-077 | THC-84-076 | THC-84-053 | THC-84-054 | THC-84-052 | THC-84-050 | THC-84-051 | THC-84-049 | THC-84-098

ANOM # 4 | ANOM # 5 | ANOM # 6 | ANOM # 9 | ANOM # 14 | ANOM # 13 | ANOM # 8 | ANOM # 3

Limy 2c | Limy dark grey rock with carbon material Basaltic in appearance | Charty horizon | Argillite - possible sedimentary unit within Kitsa Volcanics

LEGEND

TERTIARY (Eocene or Later)

POST COryELL

- 5a RHYOLITE DIKES
- 5b BASALT/DIABASE (DOLERITE) DIKES
- 5c LAMPROPHYRE
- 5d GABBRO (May be Contemporaneous with 4a & 4b)
- 5e DIORITE

COryELL PLUTONIC ROCKS

- 4a FELSITE
- 4b BIOTITE PORPHYRY
- 4c BIOTITE AUGITE MONZONITE & FINE GRAINED EQUIVALENTS

LOWER CRETACEOUS

NELSON PLUTONIC ROCKS

- 3a PHASE II BRECCIA
- 3b APLITE OR LARGELY APLITIC OUTCROP
- 3c PHASE I BRECCIA
- 3dIII QUARTZ MONZONITE PORPHYRY-SOUTHERN STOCK
- 3dII QUARTZ MONZONITE PORPHYRY-QUARTZ EYE PORPHYRY
- 3dI QUARTZ MONZONITE PORPHYRY-NORTH STOCK
- 3d QUARTZ MONZONITE PORPHYRY-UNDIFFERENTIATED
- 3e FELDSPAR PORPHYRY

MIDDLE & UPPER JURASSIC

HAUL FORMATION

- 2a ARGILLITE
- 2b SILTSTONE
- 2c CONGLOMERATE
- 2d INTERCALATED ARGILLITE & CONGLOMERATE
- 2e UNDIFFERENTIATED

LOWER JURASSIC

ELSIE (ROSSLAND) VOLCANICS

- 1a BASALT/ANDESITE FLOW
- 1b AGGLOMERATE
- 1c FELDSPAR-HORNBLENDE PORPHYRY - GABBROIC IN APPEARANCE.
- 1d VOLCANICS (Undifferentiated)
- 1e PYRITIC PALE BROWN WEATHERING LIMY ROCK - POSSIBLE DACITE OR ALTERED VOLCANIC.

GEOLOGICAL SYMBOLS

- OUTCROP
- JOINTING (Inclined, Vertical)
- BEDDING (Inclined, Vertical)
- FOLIATION (Inclined, Vertical)
- GEOLOGICAL CONTACTS (Known, Inferred)
- FAULT ZONE
- STRIKE & DIP OF FAULT ZONE
- DIAMOND DRILL HOLE LOCATION
- BOUNDARY OF QUARTZ STOCKWORK & POTASSIC ALTERATION ZONE
- MoS_2 OCCURRENCE
- SHAFT
- ADIT (OPEN, CAVED)
- TRENCH
- Cpy CHALCOPYRITE
- Gn GALENA
- Sp SPHALERITE
- Py PYRITE
- MAIN ACCESS ROAD
- FOUR WHEEL DRIVE ROAD
- TRAIL
- STREAM
- ANOM # 1 CONDUCTOR & NUMBER

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,166

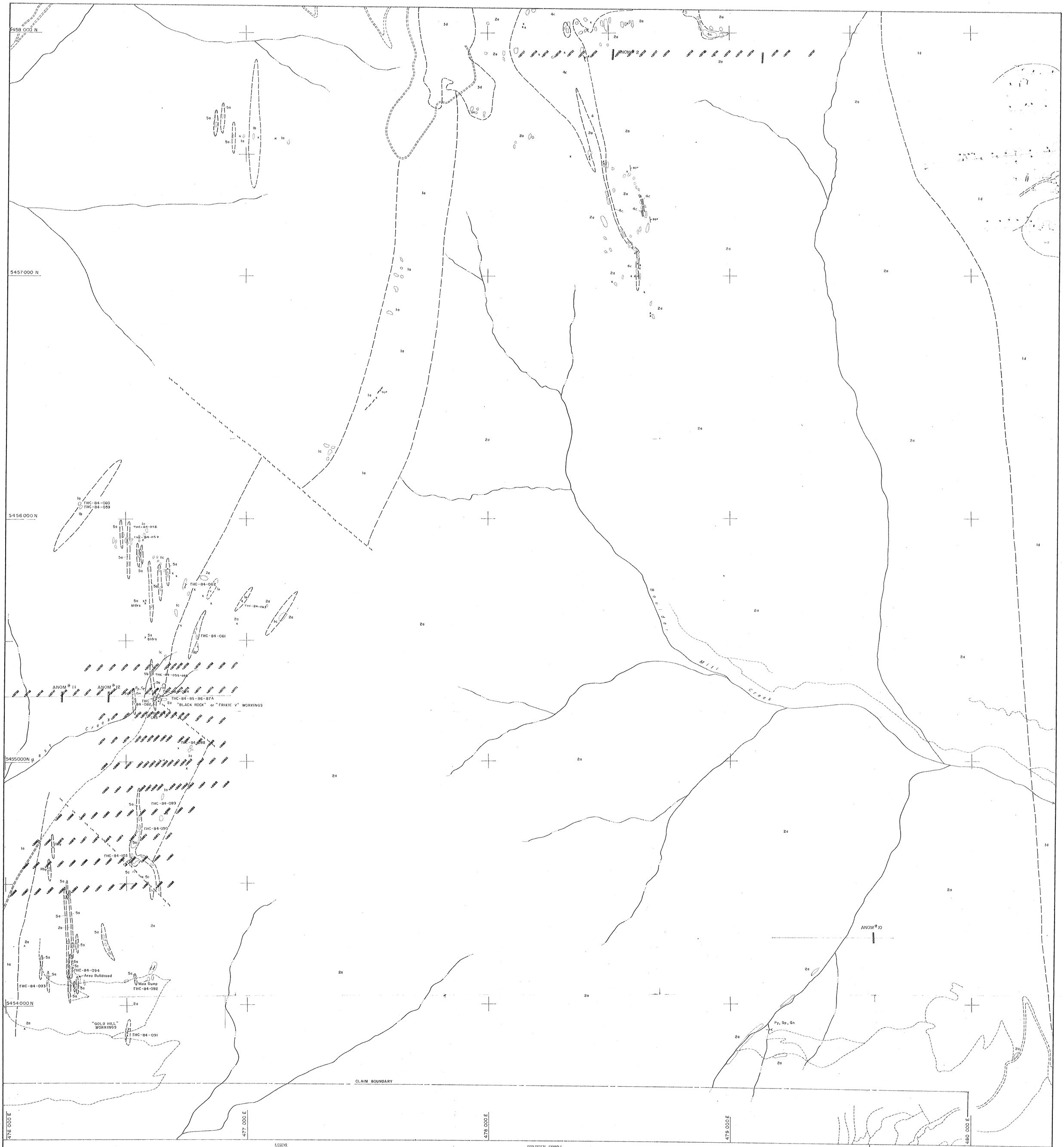
METRES 100 0 100 200 300 400

SELCO DIVISION - BP RESOURCES CANADA LIMITED

STEWART PROJECT - B. C.

GEOLOGY 1984 SOIL SAMPLE LOCATIONS

SCALE 1 : 5000		DRAWN BY: T. CARPENTER	FIG. 8
DATE NOVEMBER 1984		DRAFTED BY: S. G.	
N.T.S. 82 F/3,6	PROJ. 10138	REPORT BPVR 84-45	



LEGEND

TERTIARY (Eocene or Later)

POST CORYELL

- 5a RHYOLITE DIKES
- 5b BASALT/DIABASE (DOLERITE) DIKES
- 5c LAMPROPHYRE
- 5d GABBRO (May be Contemporaneous with 3a & 4b)
- 5e DIORITE

CORYELL PLUTONIC ROCKS

- 4a FELSITE
- 4b BIOTITE PORPHYRY
- 4c BIOTITE AUGITE MONZONITE & FINE GRAINED EQUIVALENTS

LOWER CRETACEOUS

NELSON PLUTONIC ROCKS

- 3a PHASE II BRECCIA
- 3b APLITE OR LARGELY APLITIC OUTCROP
- 3c PHASE I BRECCIA
- 3dIII QUARTZ MONZONITE PORPHYRY-SOUTHERN STOCK
- 3dII QUARTZ MONZONITE PORPHYRY-QUARTZ EYE PORPHYRY
- 3dI QUARTZ MONZONITE PORPHYRY-NORTH STOCK
- 3d QUARTZ MONZONITE PORPHYRY-UNDIFFERENTIATED
- 3e FELOSPAR PORPHYRY

MIDDLE & UPPER JURASSIC

HALL FORMATION

- 2a ARGILLITE
- 2b SILTSTONE
- 2c CONGLOMERATE
- 2d INTERCALATED ARGILLITE & CONGLOMERATE
- 2e UNDIFFERENTIATED

LOWER JURASSIC

ELISE (ROSSLAND) VOLCANICS

- 1a BASALT/ANDESITE FLOW
- 1b AGGLOMERATE
- 1c FELDSPAR-HORNBLENDE PORPHYRY - GABBRO IN APPEARANCE.
- 1d VOLCANICS (Undifferentiated)
- 1e PYRITIC PALE BROWN WEATHERING LIMY ROCK - POSSIBLE DACITE OR ALTERED VOLCANIC.

GEOLOGICAL SYMBOLS

- OUTCROP
- JOINTING (Inclined, Vertical)
- BEDDING (Inclined, Vertical)
- FOLIATION (Inclined, Vertical)
- GEOLOGICAL CONTACTS (Known, Inferred)
- FAULT ZONE
- STRIKE & DIP OF FAULT ZONE
- DIAMOND DRILL HOLE LOCATION
- BOUNDARY OF QUARTZ STOCKWORK & POTASSIC ALTERATION ZONE
- MoS_2 OCCURRENCE
- SHAFT
- ADIT (OPEN, CAVED)
- TRENCH
- Cpy CHALCOPYRITE
- Gn GALENA
- Sp SPHALERITE
- Py PYRITE
- MAIN ACCESS ROAD
- FOUR WHEEL DRIVE ROAD
- TRAIL
- STREAM
- ANOM # 1 CONDUCTOR & NUMBER

METRES: 100 0 100 200 300 400

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,166

SELCO DIVISION - BP RESOURCES CANADA LIMITED

STEWART PROJECT - B. C.

GEOLOGY 1984

SOIL SAMPLE LOCATIONS

SCALE 1 : 5000		DRAWN BY: T. CARPENTER	FIG. 9
DATE NOVEMBER 1984		DRAFTED BY: S. G.	
N.T.S. 82 F/3,6	PROJ. 10138		REPORT BPVR 84-45