

87-111-15806  
2/88

REPORT

ON

GEOLOGICAL MAPPING, GEOCHEMICAL SAMPLING  
AND TRENCHING PROGRAMS  
ON THE

PAYDIRT CLAIM GROUP

LIARD MINING DIVISION  
N.T.S. 104 G /4E, 3W

Latitude: 57° 04' N Longitude: 131° 32' W

FOR

CONSOLIDATED SILVER STANDARD MINES LIMITED  
1100 - 1199 West Hastings Street  
Vancouver, B.C.

BY

DAVID ST. C. DUNN, F.G.A.C.

November, 1986

FILMED

15,806

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

TABLE OF CONTENTS

	<u>Page</u>
TABLE OF CONTENTS .....	i /
SUMMARY .....	1 /
RECOMMENDATIONS .....	2 /
A. INTRODUCTION .....	3 /
A.1 History	
A.2 Claim Status and Economic Assessment	
A.3 Work Programme	
B. GEOLOGY .....	5 /
B.1 Regional Geology	
B.2 Property Geology	
C. GEOCHEMISTRY .....	7 /
C.1 Orientation Survey	
C.2 Soil Sampling	
C.3 Stream Sediment Sampling	
D. TRENCHING .....	9 /
STATEMENT OF COSTS .....	10 /
STATEMENT OF QUALIFICATIONS .....	11 /
BIBLIOGRAPHY .....	12 /

APPENDICES

Appendix A	Chip Sample Results	/
Appendix B	Soil Sample Results, Orientation Survey Results, Stream Sediments Sample Results	/

FIGURES

Figure 1	Property Location Map	After Page 3 /
Figure 2	Claim Location Map	After Page 4 /
Figure 3	Compilation Map	In Pocket /
Figure 4	Trenching	In Pocket /

SUMMARY

A three person crew carried out a programme of geological mapping, soil sampling, and trenching on the Paydirt Claim Group from July 1 to August 1, 1986 and from August 22 to August 30, 1986. The objectives of the programme were fourfold 1) to better define at surface the mineralized body with drill indicated geological reserves of 185,000 tonnes of 4.11 g/t Au, 2) to test and evaluate a number of anomalous rock samples taken from other parts of the property, 3) to trench a number of untested soil sample anomalies, and 4) to explore for additional mineralization. The results of trenching peripheral to the "Main Zone" mineralization indicated the mineralized body pinches in thickness from 25 m to 5 m approximately 70 m south of the discovery outcrop. The gold content across the five metres assayed up to 0.14 g/t Au. Previous work had ascertained that the mineralization pinches out 80 m to the north of the discovery outcrop. Chip sampling at the sites of anomalous grab sample from the previous summer's work returned many anomalous Au assays but none approaching ore grade. Trenching and bedrock sample of soil sample anomalies produced five anomalous assays but none approaching potentially economic grade. No significant new mineralization was discovered.

## RECOMMENDATIONS

Results from the 1986 exploration programme were disappointing. Anomalous Au values were detected in numerous rock samples, but all values were below potentially economic grade and there was a lack of continuity where multiple samples were taken across large structures. Soil sampling produced some spot anomalies between both Killer and Split #2 Creeks and in the area of the Great Plains copper showing. Trenching of soil anomalies produced anomalous rock samples but nothing approaching potentially economic grades.

Based on the disappointing results this year it is recommended that any future work be directed towards the gold showing, the anomalous samples in the area of the copper showings, and the spot soil geochemical anomalies between Split #2 Creek and Killer Creek. Considering the location of the property a considerable increase in both grade and tonnage potential of the property is required if a viable mining venture is to be considered.

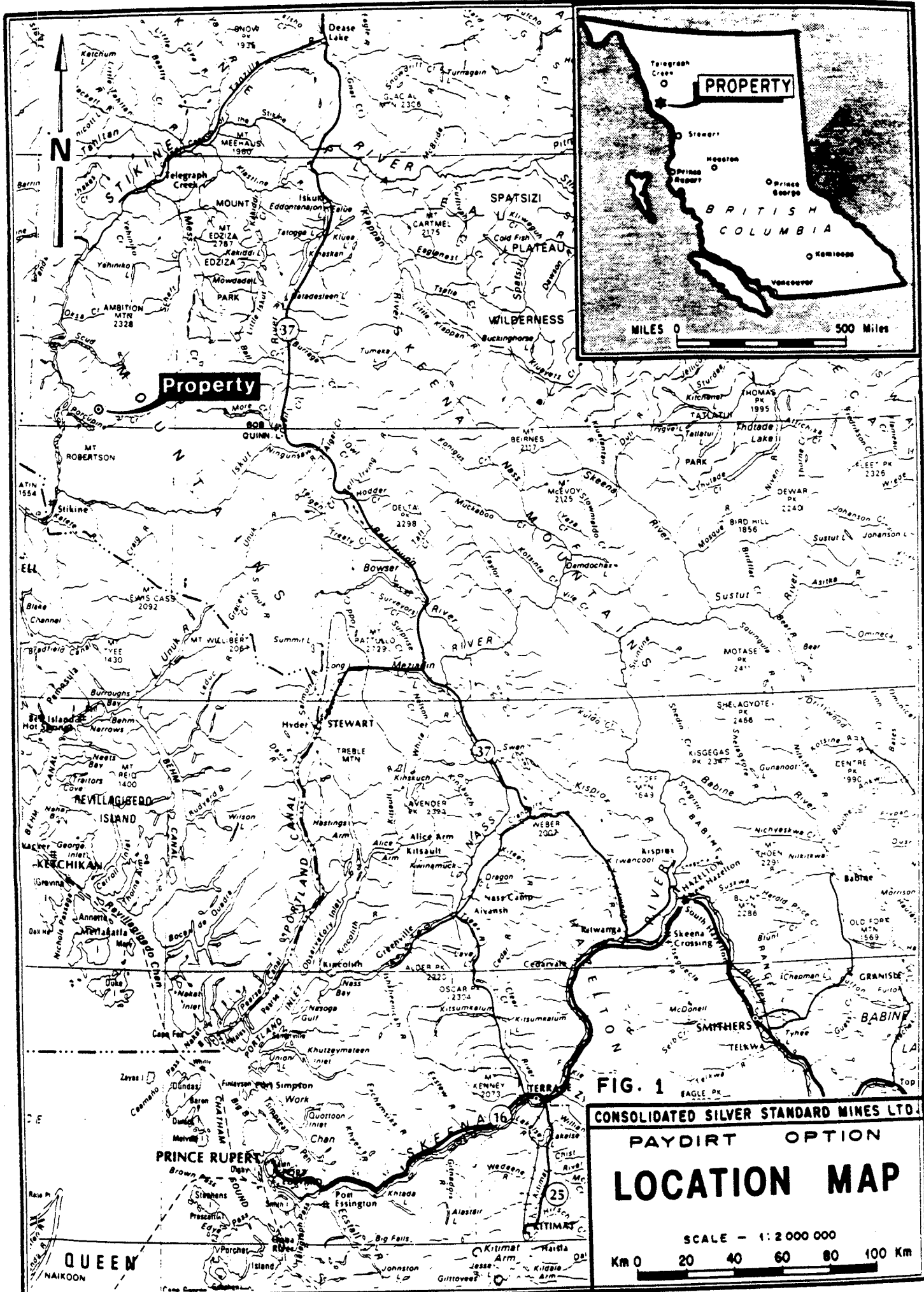
## A. INTRODUCTION

This report describes a geological, soil geochemical and trenching program carried out on the Paydirt claim group between July 1, 1986 and August 30, 1986. The property is located south of Mt. Scotsimpson along the valley of Split Creek, a tributary of the Porcupine River (See Figures 1 and 2). Access to the property is via helicopter from Bob Quinn Lake, located on Highway 37, 80 km east-south-east of the claims. Alternatively, access is possible by boat up the Stikine River to its junction with the Porcupine River, then by foot 15 km east up the Porcupine River and, ultimately, up Split Creek. An old cat road follows the route from the Stikine River to Split Creek. Elevations on the property range from 500 m to 2700 m with steep relief. Below 1200 m, the property is covered by dense underbrush with large spruce trees on ridges and in the valley bottoms. The remainder of the property is covered by alpine vegetation except where outcrop and scree is present.

### A.1 History

The area was staked in the 1960's to cover a weak copper porphyry system centered 500 m east of the top of Split #1 Creek. The following list outlines previous operators, claim names and activities:

1. (ca.1963) Julian Mining Co. - Ann and Su claims, I.P. surveys, geological mapping, trenching and 2200 m of diamond drilling.
2. (ca.1963) Stikine River Mines Ltd. - A.C. and Alpha claims. Geological mapping and geochemical surveys.
3. (1969) Silver Standard Mines Ltd. - Staked - no recorded work.
4. (1974) Great Plains - As claims. Geological and geochemical surveys.



N

PROPERTY

BRITISH COLUMBIA

MILES 0 500 Miles

Property

FIG. 1

CONSOLIDATED SILVER STANDARD MINES LTD.

PAYDIRT OPTION

LOCATION MAP

SCALE - 1:2 000 000

Km 0 20 40 60 80 100 Km

5. (1981) Teck Explorations Ltd. - Paydirt Claims. Geological mapping, soil and silt geochemical sampling, magnetometer survey, trenching, and 49 m of diamond drilling.
6. (1985) Consolidated Silver Standard Mines Ltd. - Paydirt option. Geological mapping, soil sampling, diamond drilling, and trenching.

#### A.2 Claim Status and Economic Assessment

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Expiry</u>
Split	8	1917	12 June	1991
Creek	15	1918	12 June	1991
Wife	20	1961	23 July	1997
Father	12	1962	23 July	1997
Mother	20	1963	23 July	1997
Paydirt	12	1964	23 July	1997
Daughters	12	1965	23 July	1997

The property is owned by Teck Explorations Ltd. and is under option to Consolidated Silver Standard Mines Ltd., the operator. The property has limited economic potential at this time. The drill indicated reserves of 185,000 tonnes of 4.11 g/t Au are not economic at current gold prices. No other gold mineralization of similar magnitude or continuity has yet to be found on the property.

#### A.3 Work Programme

This report includes detailed geological mapping at a scale of 1:5,000 of the intervening 2.25 km between Split #2 and Split #3 Creeks, describes 166.5 m of hand trenching using explosives and a Wajax pump, and discusses the results of 131 rock samples and 105 soil samples.

The work was carried out on the Paydirt, Mother and Creek claims.

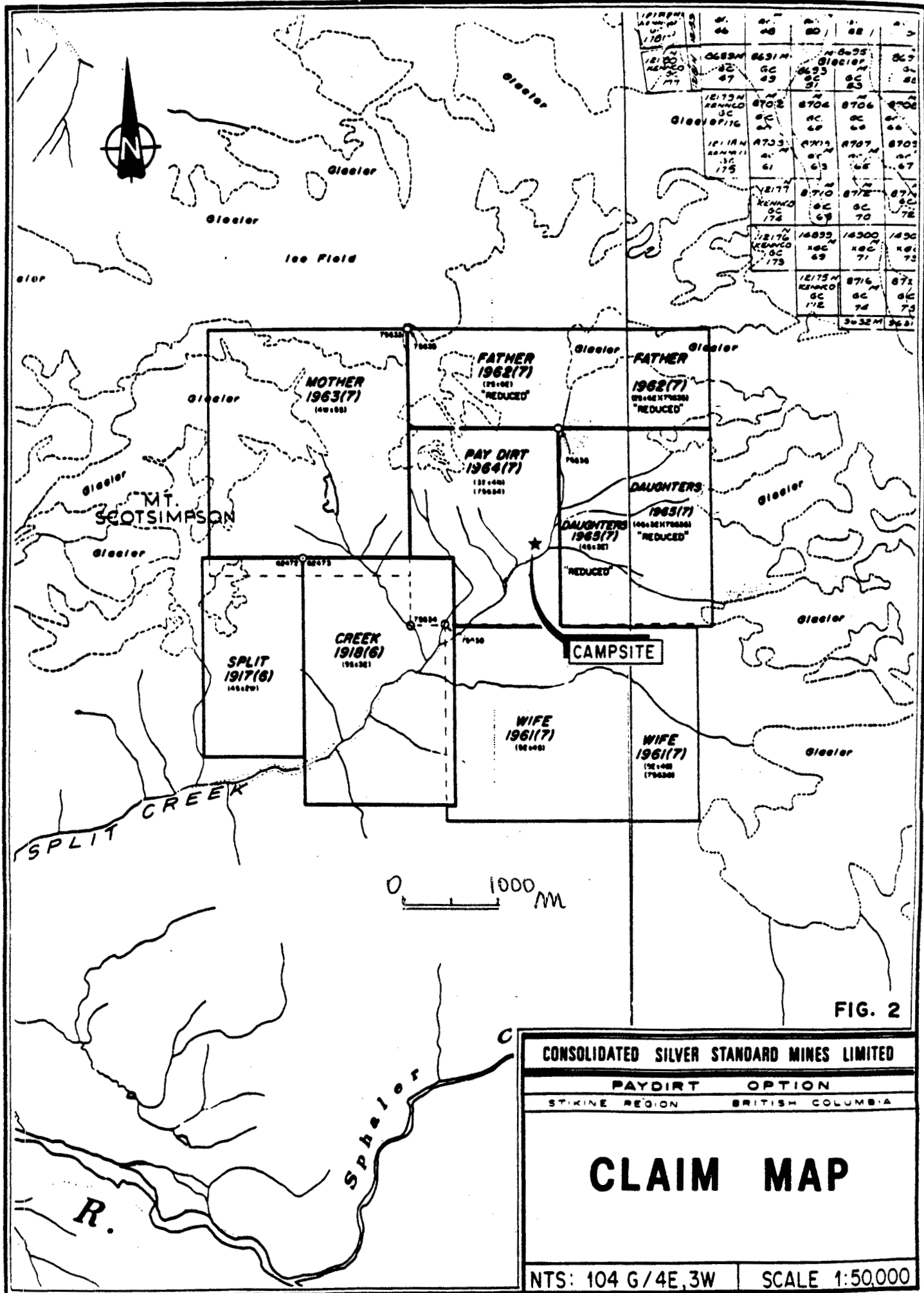


FIG. 2

CONSOLIDATED SILVER STANDARD MINES LIMITED	
PAYDIRT OPTION	
STIKINE REGION	BRITISH COLUMBIA
<b>CLAIM MAP</b>	
NTS: 104 G/4E,3W	SCALE 1:50,000



## B. GEOLOGY

### B.1 Regional Geology

The claims lie on the eastern margin of the Coast Plutonic complex in a belt of Upper Triassic eugeosynclinal sedimentary and volcanic rocks. The volcanic-sedimentary package has been intruded by Triassic and Jurassic syenitic intrusions and Jurassic and Cretaceous diorite to granodiorite intrusions. The syenitic intrusions are related to porphyry copper mineralization, similar to that at Galore Creek 10 km to the north-east of the property. Similar mineralization probably occurs on the Paydirt property, although the nearest syenite outcrop is 1.25 km east of the copper mineralization.

Strong north-south faults are outlined by drainage patterns and may represent deep-seated structures related to the accretion of this terrain onto the North American craton.

### B.2 Property Geology

The property is largely underlain by andesite pyroclastics which have been intruded by related hornblende diorite and amphibolite stocks and younger syenite and diorite to granodiorite bodies. This whole package has, in turn, been intruded by younger dykes, andesitic to lamprophyric in composition.

With the exception of the later stage dyke rocks, the rocks on the property exhibit regional propylitic alteration and wide spread pyritization. The pyrite mineralization is centered on an area between the top of Split #1 Creek and Split #2 Creek. This is the area of strongest copper mineralization where most of the work in the 1960's and 1970's was carried out. There is abundant malachite staining in most of Split #1 Creek and in the canyon in the lower part of Split #2 Creek. Strong Chalcopyrite-chalcocite mineralization can be found over widths up to 10 m. The mineralization is,

in part, structurally controlled and associated with diabase dykes. Anomalous gold values up to 1270 ppb are found associated with the copper mineralization.

The main area of gold mineralization is located on Discovery Creek, 2 km northeast of the centre of the copper mineralization, at an elevation of 1000 m and is a zone of silica-pyrite alteration in andesite pyroclastics associated with a N-S striking structure. Gold occurs in the more intensely silicified portion of this alteration zone. A more detailed description of this zone, along with 1985 drilling results can be found in "A Geological, Soil Geochemical, Trenching, and Diamond Drilling Programme on the Paydirt Claim Group," M. Holtby (1985).

Work in 1986 was concentrated on defining, by detailed geological mapping and chip sampling, a number of highly silicified, pyrite rich, and/or seriticized zones that extend from the toe of the glacier on Split #2 Creek (elevation 1000 m) to Split #3 Creek (elevation 1000-1300 m). Eight assays from 1985 grab samples in these zones ranged from .6 g/t Au to 9.3 g/t Au. On examination, the zones appear to be one continuous zone offset by two sets of faults striking  $0^{\circ}$  and  $135^{\circ}$  (See Figure 3). This zone was sampled in four locations with 40 continuous two to four metre chip samples. Most samples returned anomalous gold values up to 1.37 g/t Au but did not approach potentially economic grades. Samples were taken from surface material, where strongly silicified, or from 20 cm deep trenches in strongly seriticized areas. It is a possibility that low assay values for samples may be due to leaching. This possibility is unlikely for samples from the highly silicified, impermeable sections.

Limited mapping and sampling was carried out in other areas of the property; notably the copper showing at the south end of the canyon on Split #2 Creek (elevation 650 m) and the centre of the cat workings on the main copper showing. The showing on Split #2 Creek

canyon returned a value of 6.2 g/t from a grab sample taken in 1985. Twelve 2 metre chip samples were taken in this area. All returned anomalous gold values, but the highest was 1330 ppb Au. Nine 2 metre chip samples were taken from bedrock underlying high soil samples in the area of the cat trenches and from Split #1 Creek where 1985 grab samples returned anomalous gold values. Results of these samples were anomalous in gold, ranging up to 190 ppb, but none approached potentially economic grades. Fifty-three 1 to 2 metre chip samples were taken from trenches excavated at the sites of anomalous soil geochemical samples taken in 1985 in the area of the "Main Zone". Four of these samples were anomalous ranging up to .96 g/t Au.

Locations of all rock chip samples are on Figures 3 and 4.

## C. GEOCHEMISTRY

### C.1 Orientation Survey

Two pits were dug, one over an area with high gold geochemical values in soil and one in an area with background gold values in soil. Samples were taken of the "A", "B", and "C" soil horizons and of the bedrock. The soil samples were split into a +80 mesh fraction and a -80 mesh fraction. These fractions were then analyzed for Cu, Zn, Ag, As, Sb, Hg, Te, Ba, using wet extraction followed by atomic absorption, Au using fire assay with atomic absorption finish, and for 30 elements by I.C.P.

Gold values were highest in the "C" horizon -80 mesh fraction and showed a strong correlation to Cu, As, Te, and Fe and weaker correlation to Sb and Pb. Results are included in Appendix B.

### C.2 Soil Sampling

Three reconnaissance soil lines were run, two from Killer Creek west on the 800 m and 900 m elevation contours to Split #2 Creek and one

across the centre of the copper porphyry system largely on the 1050 elevation contour but following a cat trench. One hundred and five samples were taken from the "B" soil horizon at 25 m intervals and were run for gold by fire assay with atomic absorption finish. The samples taken over the copper porphyry mineralization were also analyzed for copper using wet extraction followed by atomic absorption.

Four spot highs between 200 ppb Au and 1520 ppb Au were encountered on the two lines running between Killer and Split #2 Creeks over a high background of 100 ppb Au. The four highest results could be the expression of mineralization similar to the "Main Zone", although the assays are not as high as soil samples taken over the "Main Zone" and there are no adjacent supporting anomalous assays. In follow-up work trenches to bedrock should be located and sampled of these four anomalous samples in particular at the location sample 86 PD-04 which ran 1520 ppb Au. This sample is located 100 m west of Killer Creek on the 900 m elevation contour.

Two anomalous samples of 250 ppb Au and 1030 ppb Au were encountered on the soil line run across the copper porphyry system. Background values are 125 ppb Au. Overburden cover is very shallow in this area ranging from 0.5 m to 1 m in depth. Trenching of similar anomalous values from previous soil sampling surveys returned high background Au values in rock, up to 190 ppb Au and averaging 85 ppb Au. Gold values seem to be concentrated in the soil reflecting an overall enhanced gold background as opposed to economic concentrations in the rock.

### C.3 Stream Sediment Sampling

Eight pan concentrate samples were taken from the drainages flowing into the headwaters of Split #2 Creek. Two of these were highly anomalous in gold, 1200 ppb Au and 8600 ppb Au. Four chip samples were taken of orange weathering, silicified, pyritized material from

the only outcrop above the site of the 8600 ppb sample (19578). The outcrop is located approximately 50 m above the sample site (See Figure 3). Assays were disappointing ranging from 15 ppb Au to 75 ppb Au. This anomaly has not been satisfactorily explained, but could be the result of glacially transported material.

Soil and pan concentrate sample results are included in Appendix B.

#### D. TRENCHING

A total of 166.5 m of trenches were hand excavated using a Wajax 26B pump, pionjaar drill, and explosives. Eleven trenches were completed to bedrock located at anomalous soil samples obtained in previous work. Seven of these trenches were in the area of the "Main Zone", three others, previously discussed under "Soil Sampling" were on the copper porphyry system, and one trench, previously mentioned under "Property Geology" was on two 1985 samples that ran 2.17 g/t Au and 8.37 g/t Au.

Chip samples from bedrock exposed in the seven trenches in the area of the "Main Zone" (see Figure 4), returned background values with the exceptions of trench #11 and trench #17. Trench #11 was located at the intersection of Line 9+70N and the trail from base camp to the "Main Zone". This is the location of Anomaly F from "A Geological, Soil Geochemical, Trenching, and Diamond Drilling Programme on the Paydirt Claim Group " Holtby, M. (1985). Values in this trench were associated with minor chalcopyrite mineralization and ranged from 0.14 g/t Au to 0.96 g/t Au. Trench #17 was located on line 9+70N, 90 m west of Discovery Creek on Anomaly C in the above mentioned report. Two anomalous values of .11 g/t Au and .235 g/t Au were returned from eight one metre samples taken.

None of the assay values for rock samples taken from the trenches approach potentially economic grades. All soil anomalies identified in the 1985 work were trenched either to bedrock or transported material immediately overlying bedrock.

STATEMENT OF COSTS

Personnel

J. Bacon -  
1/1/86 - 4/8/86, 22-30/8/86  
44 days at \$95/day = \$4,180 + benefits \$4,807.00

P. Daubeny  
26/6/86, 1/7/86 - 4/8/86, 22-30/86  
45 days at \$85/day = \$3,825 + 15% benefits 4,398.75

D. Dunn  
20,23,26/6/86, 1/7/86 - 4/8/86, 22-30/86, 21,24-28/11/86  
53 days at \$165/day = \$8,745 + 15% benefits 10,056.75

J. Havlik (Research)  
9 hours at \$7.57/hr. = \$68.13 + 15% benefits 78.35

A. Potter  
3,26/7/86, 3-4/8/86  
4 days at \$125/day = \$500 + 15% benefits 575.00

R. Quartermain (Administration)  
62.5 hours at \$32.04/hr. = \$2,002.50 + 15% benefits 2,302.88

Room and Board

16 days commercial rate @ \$75/day 1,200.00  
120 days camp rate @ \$25/day 3,000.00

Equipment

Drill Rental 2,659.00  
Pump Rental 501.66

Transportation

Truck Rental 1,352.00  
Gas, propane, and food transport 771.00  
O.K. Helicopter 8,267.75  
Air Fare 1,123.00

Assays

3,393.35

Drafting

700.00

Expendables

219.00

Sub-Total \$ 45,405.49  
Office Costs: 5% 2,270.27

TOTAL \$ 47,675.76

STATEMENT OF QUALIFICATIONS

I, David Saint Clair Dunn, of the Municipality of West Vancouver, in the Province of British Columbia, hereby certify as follows:

1. I am a Geologist residing at 2348 Palmerston Avenue, West Vancouver, B.C., V7V 2W1.
2. I am a Fellow of the Geological Association of Canada.
3. I am a graduate of the University of British Columbia with a B.Sc.- Geology (1980).
4. I have practiced my profession as a Geologist since graduation.
5. I have worked in the mineral exploration industry for eight seasons previous to graduation.
6. Geological mapping, rock sampling and geochemical surveys were carried out by experienced exploration personnel under my supervision.

  
\_\_\_\_\_  
David Saint Clair Dunn, F.G.A.C.



November, 1986

BIBLIOGRAPHY

Folk, P. (1982) "Report on the Geological, Geochemical, Geophysical Surveys, and Diamond Drilling Conducted on the Paydirt Claim Group".

Holtby, M. (1985) "A Geological, Soil Geochemical, Trenching, and Diamond Drilling Programme on the Paydirt Claim Group".



APPENDIX A

CHIP SAMPLE RESULTS



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

## CERTIFICATE OF ASSAY

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8615408-001-A  
INVOICE # : I8615408  
DATE : 30-JUL-86  
P.O. # : NONE  
C-1016

*sp Box 662  
Smithers, BC VOJ 2N0*

CC: DAVID DUNN

Sample description	Prep code	Au g/tonne					
19901	207	<0.07	--	--	--	--	--
19902	207	<0.07	--	--	--	--	--
19903	207	<0.07	--	--	--	--	--
19904	207	<0.07	--	--	--	--	--
19905	207	0.07	--	--	--	--	--
19906	207	<0.07	--	--	--	--	--
19907	207	<0.07	--	--	--	--	--
19908	207	<0.07	--	--	--	--	--
19909	207	0.41	--	--	--	--	--
19910	207	0.14	--	--	--	--	--
19911	207	0.21	--	--	--	--	--
19912	207	0.96	--	--	--	--	--
19913	207	0.14	--	--	--	--	--
19914	207	<0.07	--	--	--	--	--
19915	207	<0.07	--	--	--	--	--
19916	207	0.14	--	--	--	--	--
19917	207	0.07	--	--	--	--	--
19918	207	<0.07	--	--	--	--	--
19919	207	<0.07	--	--	--	--	--
19920	207	<0.07	--	--	--	--	--
19921	207	<0.07	--	--	--	--	--
19922	207	<0.07	--	--	--	--	--
19923	207	<0.07	--	--	--	--	--

*P. Swaine*

VOI rev. 4/85

.....  
Registered Assayer, Province of British Columbia



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

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

## CERTIFICATE OF ASSAY

TC : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

40 CONSOLIDATED SILVER STD.  
Box 602  
SMITHERS, BC  
V0J 2N0

CERT. # : A8615768-001-A  
INVOICE # : I8615768  
DATE : 13-AUG-86  
P.C. # : NONE  
C 1016

✓CC: DAVID DUNN

Sample description	Prep code	Au g/tonne	Au g/t RUSH FA				
19551	236	--	<0.07	--	--	--	--
19552	236	--	<0.07	--	--	--	--
19553	236	--	<0.07	--	--	--	--
19554	207	<0.07	--	--	--	--	--
19555	207	<0.07	--	--	--	--	--
19556	207	<0.07	--	--	--	--	--
19601	207	0.07	--	--	--	--	--
19602	207	0.07	--	--	--	--	--
19603	207	<0.07	--	--	--	--	--
19604	207	<0.07	--	--	--	--	--
19605	207	<0.07	--	--	--	--	--
19606	207	<0.07	--	--	--	--	--
19607	207	0.07	--	--	--	--	--
19608	207	<0.07	--	--	--	--	--
19609	207	<0.07	--	--	--	--	--
19610	207	<0.07	--	--	--	--	--
19611	207	<0.07	--	--	--	--	--
19612	207	<0.07	--	--	--	--	--
19613	207	<0.07	--	--	--	--	--
19924	207	<0.07	--	--	--	--	--
19925	207	<0.07	--	--	--	--	--
19926	207	0.07	--	--	--	--	--
19927	207	<0.07	--	--	--	--	--
19928	207	0.14	--	--	--	--	--
19929	207	0.14	--	--	--	--	--
19930	207	0.14	--	--	--	--	--
19931	207	<0.07	--	--	--	--	--
19932	207	<0.07	--	--	--	--	--
19933	207	<0.07	--	--	--	--	--
19934	236	--	0.48	--	--	--	--
19935	236	--	1.37	--	--	--	--
19936	236	--	0.75	--	--	--	--
19937	236	--	0.14	--	--	--	--
19938	236	--	0.14	--	--	--	--
19939	236	--	0.21	--	--	--	--
19940	236	--	0.14	--	--	--	--
19941	236	--	0.34	--	--	--	--
19942	236	--	0.21	--	--	--	--
19943	236	--	0.69	--	--	--	--
19944	236	--	0.27	--	--	--	--

VOI rev. 4/85

.....  
Registered Assayer, Province of British Columbia



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksban.  
North Vancouver, B.C.  
Canada V7J 2  
Phone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8615768-002-A  
INVOICE # : I8615768  
DATE : 5-AUG-86  
P.C. # : NONE  
C 1016

CC: DAVID DUNN

Sample description	Prep code	Au g/tonne	Au g/t RUSH FA				
19945	236	--	0.21	--	--	--	--
19946	236	--	0.07	--	--	--	--
19947	236	--	0.07	--	--	--	--
19948	236	--	0.07	--	--	--	--
19949	236	--	0.07	--	--	--	--
19950	236	--	<0.07	--	--	--	--

*Annie Christie*

VOI rev. 4/85

.....  
Registered Assayer, Province of British Columbia



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

## CERTIFICATE OF ANALYSIS

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8616153-001-A  
INVOICE # : I8616153  
DATE : 17-AUG-86  
P.C. # : NONE  
C-1016

CC: DAVID DUNN

Sample description	Prep code	Cu ppm	Au ppb FA+AA				
19557	207	--	1330	--	--	--	--
19558	207	790	1150	--	--	--	--
19559	207	6300	710	--	--	--	--
19560	207	>10000	200	--	--	--	--
19561	207	1610	315	--	--	--	--
19562	207	6620	550	--	--	--	--
19563	207	800	55	--	--	--	--
19564	207	--	150	--	--	--	--
19575	207	1360	75	--	--	--	--
19576	207	--	15	--	--	--	--
19577	207	--	15	--	--	--	--
19586	207	1000	95	--	--	--	--
19614	207	--	110	--	--	--	--
19615	207	--	<5	--	--	--	--
19616	207	--	<5	--	--	--	--
19617	207	--	<5	--	--	--	--
19618	207	--	235	--	--	--	--
19619	207	--	30	--	--	--	--
19620	207	--	20	--	--	--	--
19621	207	--	<5	--	--	--	--

Certified by Hart Bichler



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

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

## CERTIFICATE OF ASSAY

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8615770-001-A  
INVOICE # : 18615770  
DATE : 4-AUG-86  
P.O. # : NONE

Sample description	Prep code	Au oz/T RUSH FA					
19565	236	0.004	--	--	--	--	--
19566	236	<0.002	--	--	--	--	--
19567	236	<0.002	--	--	--	--	--
19568	236	0.002	--	--	--	--	--
19569	236	0.005	--	--	--	--	--
19570	236	0.011	--	--	--	--	--
19571	236	<0.002	--	--	--	--	--
19572	236	<0.002	--	--	--	--	--
19573	236	<0.002	--	--	--	--	--
19574	236	0.016	--	--	--	--	--

.....*W. Santarini*.....  
Registered Assayer, Province of British Columbia

VOI rev. 4/85



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

## CERTIFICATE OF ASSAY

TC : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8616238-001-A  
INVOICE # : I8616238  
DATE : 21-AUG-86  
P.C. # : NCNE  
C-1016

CC: DAVID CUNN

Sample description	Prep code	Au g/tonne						
19587	207	<0.07	--	--	--	--	--	--
19588	207	<0.07	--	--	--	--	--	--
19589	207	<0.07	--	--	--	--	--	--
19590	207	<0.07	--	--	--	--	--	--
19591	207	<0.07	--	--	--	--	--	--
19592	207	<0.07	--	--	--	--	--	--
19593	207	<0.07	--	--	--	--	--	--
19594	207	0.89	--	--	--	--	--	--

*Annie Christie*

VOI rev. 4/85

.....  
Registered Assayer, Province of British Columbia



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

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

## CERTIFICATE OF ANALYSIS

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8617660-001-A  
INVOICE # : I8617660  
DATE : 17-SEP-86  
P.O. # : NONE  
C-1016

CC: DAVID DUNN

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	Au ppb FA+AA	
19595	205	66	13	200	0.2	<5	--
19596	205	200	8	1380	0.1	<5	--
19597	205	152	550	118	26.0	7900	--
19598	205	630	--	--	--	85	--
19599	205	530	--	--	--	75	--
19600	205	590	--	--	--	70	--
19951	205	520	--	--	--	50	--
19952	205	420	--	--	--	40	--
19953	205	160	--	--	--	190	--
19954	205	136	--	--	--	30	--
19955	205	1300	--	--	--	200	--
19956	205	1600	--	--	--	200	--
19957	205	1600	--	--	--	150	--
19958	205	4600	--	--	--	430	--
19959	205	350	--	--	--	50	--
19960	205	116	--	--	--	120	--
19961	205	10	--	--	--	15	--
19962	205	--	--	--	--	<5	--
19963	205	--	--	--	--	40	--
19964	205	--	--	--	--	30	--
19965	205	3600	--	--	--	1270	--
19966	205	56	--	--	--	25	--
19967	205	230	--	--	--	90	--
19968	205	15	--	--	--	10	--
19969	205	48	--	--	--	30	--
19970	205	520	--	--	--	155	--
19971	205	128	--	--	--	50	--
19972	205	3000	--	--	--	740	--

Certified by *Hart Bichler*



**APPENDIX B**

SOIL SAMPLE RESULTS, ORIENTATION SURVEY RESULTS,  
STREAM SEDIMENT SAMPLE RESULTS



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

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

## CERTIFICATE OF ANALYSIS

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8616239-001-B  
INVOICE # : I8616239  
DATE : 18-AUG-86  
P.O. # : NONE  
C-1016

CC: DAVID DUNN

Sample description	Prep code	Te ppm	Ba ppm	Au ppb FA+AA			
OS-1-A1+A2 -80	202	<0.05	1700	15	--	--	--
OS-1-B1+B2 -80	202	<0.05	1700	45	--	--	--
OS-1-C1+C2 -80	202	0.10	1340	95	--	--	--
OS-2-A1+A2 -80	202	<0.05	840	10	--	--	--
OS-2-B1+B2 -80	202	<0.05	840	25	--	--	--
OS-2-C1+C2 -80	202	0.25	980	235	--	--	--
OS-1-A1+A2 +80	217	<0.05	1600	20	--	--	--
OS-1-B1+B2 +80	217	<0.05	2100	10	--	--	--
OS-1-C1+C2 +80	217	0.05	2100	50	--	--	--
OS-2-A1+A2 +80	217	<0.05	1560	35	--	--	--
OS-2-B1+B2 +80	217	<0.05	1400	15	--	--	--
OS-2-C1+C2 +80	217	<0.05	1300	35	--	--	--
OS-2-ROCK 1+2	205	<0.05	1360	10	--	--	--

*Hart Buchler*

Certified by .....



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

**CERTIFICATE OF ANALYSIS**

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
 VANCOUVER, B.C.  
 V6E 3T5

CERT. # : A8616239-001-A  
 INVOICE # : I8616239  
 DATE : 18-AUG-86  
 P.C. # : NCNE  
 C-1016

CC: DAVID DUNN

Sample description	Prep code	Cu ppm	Zn ppm	Ag ppm Aqua R	AS ppm	Hg ppb	Sb ppm
OS-1-A1+A2 -80	202	61	15	0.1	2	100	0.1
OS-1-B1+B2 -80	202	400	21	0.1	5	60	0.1
OS-1-C1+C2 -80	202	1220	31	0.1	6	40	0.2
OS-2-A1+A2 -80	202	250	21	0.2	3	70	0.1
OS-2-B1+B2 -80	202	700	42	0.2	3	60	0.1
OS-2-C1+C2 -80	202	2070	57	0.1	11	30	1.2
OS-1-A1+A2 +80	217	49	10	0.1	3	50	0.1
OS-1-B1+B2 +80	217	260	18	0.1	4	30	0.1
OS-1-C1+C2 +80	217	590	23	0.1	3	30	0.1
OS-2-A1+A2 +80	217	138	21	0.1	2	30	0.1
OS-2-B1+B2 +80	217	239	31	0.1	2	40	0.1
OS-2-C1+C2 +80	217	620	44	0.1	3	20	0.2
OS-2-ROCK 1+2	205	460	45	0.1	4	20	0.4

Certified by Hart Buchler .....



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

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

## CERTIFICATE OF ANALYSIS

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8616240-001-7  
INVOICE # : I8616240  
DATE : 21-AUG-90  
P.O. # : NONE  
C-1016

CC: DAVID DUNN

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)	Hg % (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)
OS-1-A1+A2 -80	5	<10	15	2210	4	<2	<0.5	5	20	1550	4.10	230	46	0.93	194	6.30	<0.5	2.40	61	0.2	0.545	420	1.88	2.45
OS-1-B1+B2 -80	6	<10	20	1660	6	<2	<0.5	22	12	1600	6.38	375	37	1.65	235	6.95	<0.5	1.78	390	0.2	0.556	335	1.80	2.59
OS-1-C1+C2 -80	27	<10	27	2120	2	<2	<0.5	56	9	1370	10.40	420	26	2.03	245	6.68	<0.5	1.74	915	0.2	0.490	290	1.55	2.18
OS-2-A1+A2 -80	2	<10	22	1840	2	<2	<0.5	7	8	925	6.33	295	43	1.33	215	5.26	<0.5	1.05	348	0.2	0.447	265	0.87	1.44
OS-2-B1+B2 -80	3	<10	44	2070	2	<2	<0.5	20	12	1190	8.67	520	63	2.97	210	7.16	<0.5	0.88	560	0.2	0.505	176	0.94	2.09
OS-2-C1+C2 -80	8	<10	64	2110	12	<2	<0.5	51	17	925	10.60	900	52	2.95	200	6.62	<0.5	1.38	1670	0.2	0.436	245	1.19	2.19
OS-1-A1+A2 +80	3	<10	10	1250	8	<2	<0.5	5	5	1370	3.72	225	55	0.87	200	5.87	<0.5	2.95	50	0.2	0.410	515	1.57	2.05
OS-1-B1+B2 +80	5	<10	16	1140	4	<2	<0.5	17	6	2160	4.79	305	35	1.58	240	8.13	<0.5	2.12	265	0.2	0.504	425	2.32	3.15
OS-1-C1+C2 +80	14	<10	8	580	2	<2	<0.5	30	6	2170	5.90	320	53	1.77	250	9.36	<0.5	2.49	465	0.2	0.499	465	2.12	3.85
OS-2-A1+A2 +80	3	<10	19	875	4	<2	<0.5	7	7	1490	4.66	300	80	1.38	240	7.18	<0.5	1.31	130	0.2	0.322	415	1.58	2.79
OS-2-B1+B2 +80	1	<10	25	890	2	<2	<0.5	11	7	1340	4.07	325	58	1.81	186	6.99	<0.5	0.82	193	0.2	0.230	215	2.02	2.46
OS-2-C1+C2 +80	3	<10	27	1430	8	<2	<0.5	21	9	1300	3.38	460	58	2.13	186	7.19	<0.5	0.97	425	0.2	0.267	315	2.10	2.85
OS-2-ROCK 1+2	2	<10	22	1610	6	<2	<0.5	18	9	1290	3.36	490	60	2.03	186	7.01	<0.5	1.00	370	0.2	0.283	340	2.48	2.73

Certified by *[Signature]*



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

## CERTIFICATE OF ANALYSIS

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8617661-001-A  
INVOICE # : I8617661  
DATE : 16-SEP-86  
P.O. # : NONE  
C-1016

CC: DAVID DUNN

Sample description	Prep code	Cu ppm	Au ppb FA+AA				
86 PD 01	201	--	60	--	--	--	--
86 PD 02	201	--	30	--	--	--	--
86 PD 03	201	--	60	--	--	--	--
86 PD 04	201	--	1520	--	--	--	--
86 PD 05	201	--	45	--	--	--	--
86 PD 06	201	--	140	--	--	--	--
86 PD 07	201	--	165	--	--	--	--
86 PD 08	201	--	165	--	--	--	--
86 PD 09	201	--	200	--	--	--	--
86 PD 10	201	--	45	--	--	--	--
86 PD 11	201	--	<5	--	--	--	--
86 PD 12	201	--	55	--	--	--	--
86 PD 13	201	--	95	--	--	--	--
86 PD 14	201	--	70	--	--	--	--
86 PD 15	201	--	135	--	--	--	--
86 PD 16	201	--	60	--	--	--	--
86 PD 17	201	--	35	--	--	--	--
86 PD 18	201	--	<5	--	--	--	--
86 PD 19	201	--	45	--	--	--	--
86 PD 20	201	--	30	--	--	--	--
86 PD 21	201	--	125	--	--	--	--
86 PD 22	201	--	35	--	--	--	--
86 PD 23	201	--	50	--	--	--	--
86 PD 24	201	--	90	--	--	--	--
86 PD 25	201	--	5	--	--	--	--
86 PD 26	201	--	70	--	--	--	--
86 PD 27	201	--	170	--	--	--	--
86 PD 28	201	--	25	--	--	--	--
86 PD 29	201	--	100	--	--	--	--
86 PD 30	201	--	160	--	--	--	--
86 PD 31	201	--	110	--	--	--	--
86 PD 32	201	--	70	--	--	--	--
86 PD 33	201	--	70	--	--	--	--
86 PD 34	201	--	60	--	--	--	--
86 PD 35	201	--	25	--	--	--	--
86 PD 36	201	--	45	--	--	--	--
86 PD 37	201	--	75	--	--	--	--
86 PD 38	201	--	105	--	--	--	--
86 PD 39	201	--	670	--	--	--	--
86 PD 40	201	--	50	--	--	--	--

VOI rev. 4/85

Certified by Hart Bichler



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

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

## CERTIFICATE OF ANALYSIS

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

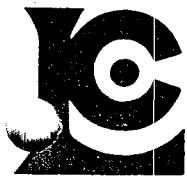
CERT. # : A8617661-002-A  
INVOICE # : I8617661  
DATE : 16-SEP-86  
P.O. # : NONE  
C-1016

CC: DAVID DUNN

Sample description	Prep code	Cu ppm	Au ppb FA+AA					
86 PD 41	201	--	55	--	--	--	--	--
86 PD 42	201	--	70	--	--	--	--	--
86 PD 43	201	--	50	--	--	--	--	--
86 PD 44	201	--	100	--	--	--	--	--
86 PD 45	201	--	110	--	--	--	--	--
86 PD 46	201	--	30	--	--	--	--	--
86 PD 47	201	--	80	--	--	--	--	--
86 PD 48	201	--	20	--	--	--	--	--
86 PD 49	201	--	45	--	--	--	--	--
86 PD 50	201	--	150	--	--	--	--	--
86 PD 51	201	--	280	--	--	--	--	--
86 PD 52	201	--	40	--	--	--	--	--
86 PD 53	201	--	40	--	--	--	--	--
86 PD 54	201	--	35	--	--	--	--	--
86 PD 55	201	--	50	--	--	--	--	--
86 PD 56	201	--	50	--	--	--	--	--
86 PD 57	201	--	55	--	--	--	--	--
86 PD 58	201	--	85	--	--	--	--	--
86 PD 59	201	--	40	--	--	--	--	--
86 PD 60	201	--	5	--	--	--	--	--
86 PD 61	201	--	60	--	--	--	--	--
86 PD 62	201	--	15	--	--	--	--	--
86 PD 63	201	--	75	--	--	--	--	--
86 PD 64	201	--	10	--	--	--	--	--
86 PD 65	201	--	50	--	--	--	--	--
86 PD 66	201	--	10	--	--	--	--	--
86 PD 67	201	--	55	--	--	--	--	--
86 PD 68	201	--	30	--	--	--	--	--
86 PD 69	201	--	180	--	--	--	--	--
86 PD 70	201	--	120	--	--	--	--	--
86 PD 71	201	--	70	--	--	--	--	--
86 PD 72	201	--	80	--	--	--	--	--
86 PD JB 0+00	201	66	25	--	--	--	--	--
86 PD JB 0+25	201	540	40	--	--	--	--	--
86 PD JB 0+50	201	200	30	--	--	--	--	--
86 PD JB 0+75	201	170	60	--	--	--	--	--
86 PD JB 1+00	201	350	125	--	--	--	--	--
86 PD JB 1+25	201	980	250	--	--	--	--	--
86 PD JB 1+50	201	166	60	--	--	--	--	--
86 PD JB 1+75	201	650	1030	--	--	--	--	--

VOI rev. 4/85

Certified by *Hart Bichler*



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

## CERTIFICATE OF ANALYSIS

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8617661-003-A  
INVOICE # : I8617661  
DATE : 16-SEP-86  
P.O. # : NONE  
C-1016

CC: DAVID DUNN

Sample description	Prep code	Cu ppm	Au ppb FA+AA				
86 PD JB 2+00	201	122	45	--	--	--	--
86 PD JB 2+25	201	610	135	--	--	--	--
86 PD JB 2+50	201	330	130	--	--	--	--
86 PD JB 2+75	201	420	95	--	--	--	--
86 PD JB 3+00	201	1000	90	--	--	--	--
86 PD JB 3+25	201	480	90	--	--	--	--
86 PD JB 3+50	201	990	50	--	--	--	--
86 PD JB 3+75	201	1900	115	--	--	--	--
86 PD JB 4+00	201	630	50	--	--	--	--
86 PD JB 4+25	201	270	45	--	--	--	--
86 PD JB 4+50	201	530	55	--	--	--	--
86 PD JB 4+75	201	810	50	--	--	--	--
86 PD JB 5+00	201	2700	120	--	--	--	--
86 PD JB 5+25	201	1200	115	--	--	--	--
86 PD JB 5+30	201	2100	120	--	--	--	--

Certified by Hart Bichler .....



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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

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

cp Consolidated Silver Std.  
Box 662  
Smithers, BC V0J 2N0

Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED  
11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T6

CERT. # : A8616154-001-A  
INVOICE # : T8616154  
DATE : 19-AUG-88  
P.O. # : NONE  
C-1016

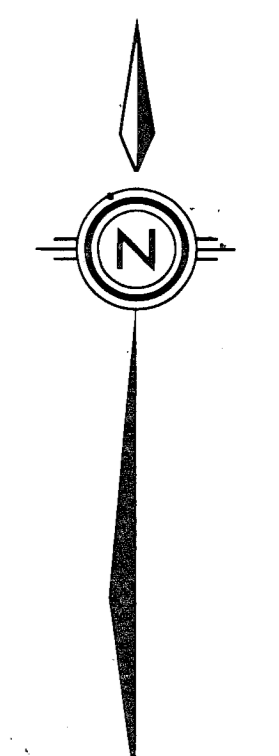
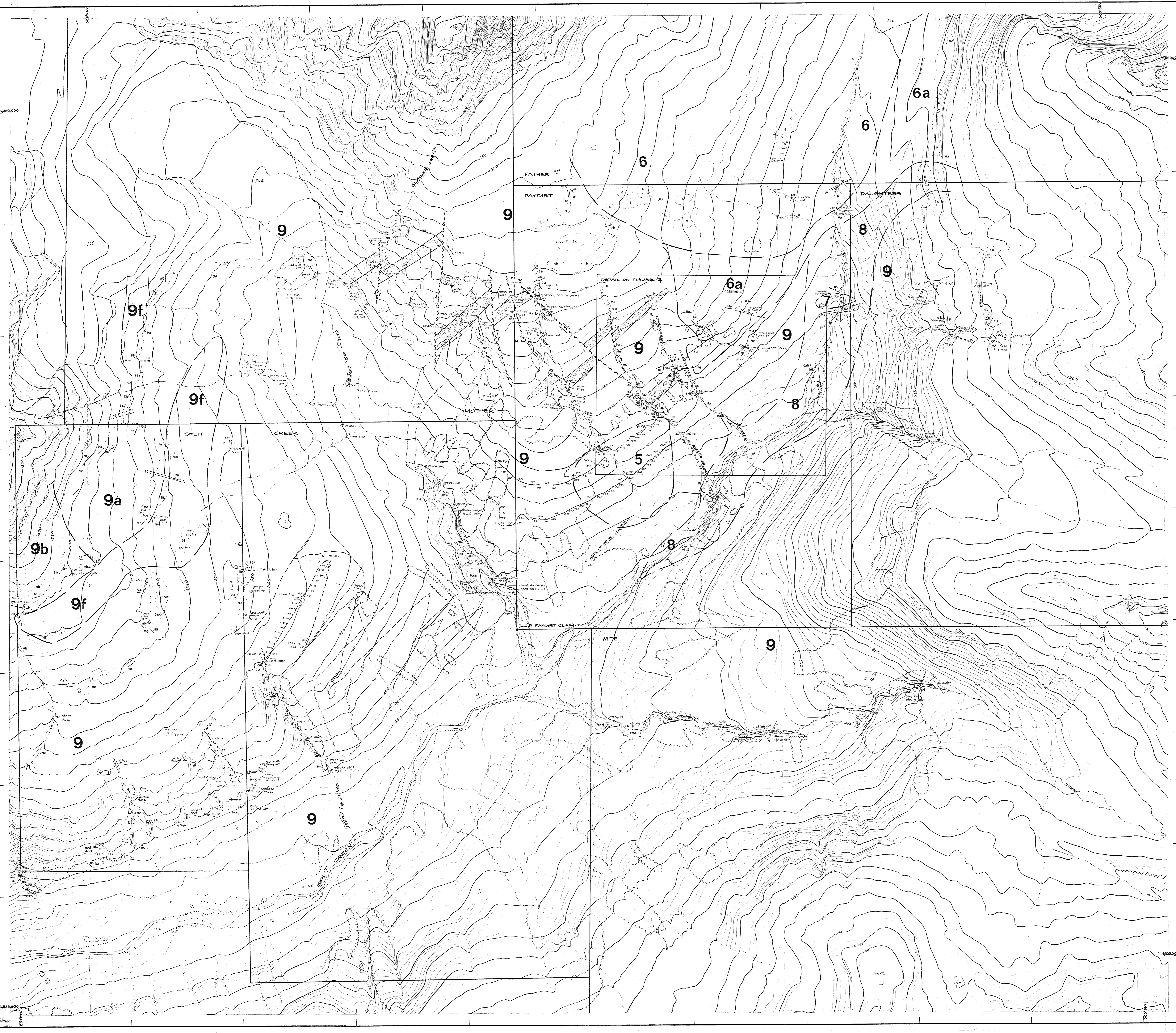
Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and U can only be considered as semi-quantitative.

COMMENTS : ✓  
CC: DAVID DUNN

Sample description	Au ppb	Ag %	Al ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Cs %	Co ppm	Cu ppm	Cr ppm	Cd ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
19578	3600	2.22	3.5	30	100	<0.5	<2	1.70	<0.5	40	185	359	7.87	<10	0.17	10	1.25	550	8	0.02	33	1470	26	<10	219	0.25	<10	<10	122	<10	60	--
19579	100	1.68	0.4	10	170	<0.5	<2	1.98	<0.5	33	71	282	3.18	10	0.26	10	0.61	355	1	0.01	11	1450	24	<10	300	0.16	<10	<10	119	<10	20	--
19580	99	1.30	1.8	50	190	<0.5	<2	2.18	<0.5	50	78	384	6.36	10	0.22	10	0.68	385	5	0.31	12	2090	16	<10	372	0.22	<10	<10	165	<10	34	--
19581	110	3.22	1.4	30	230	<0.5	<2	2.48	<0.5	50	89	317	6.57	10	0.29	10	0.72	527	5	0.01	13	1790	20	<10	408	0.23	<10	<10	169	<10	38	--
19582	315	1.93	1.2	20	130	<0.5	<2	1.84	<0.5	67	30	260	8.13	10	0.15	10	0.96	587	7	0.01	24	2140	19	<10	280	0.20	<10	<10	148	<10	30	--
19583	725	2.13	1.4	20	410	<0.5	<2	2.09	<0.5	49	86	773	14.70	10	0.16	20	0.81	664	18	0.02	22	3580	36	<10	382	0.18	<10	<10	165	<10	32	--
19584	1200	2.18	0.8	20	510	<0.5	<2	2.30	<0.5	23	37	1346	5.76	10	0.50	10	0.89	473	18	0.01	17	1930	10	<10	330	0.26	<10	<10	195	<10	26	--
19585	100	3.09	0.4	20	260	<0.5	<2	3.92	<0.5	12	70	925	3.44	20	0.21	<10	0.49	431	9	0.01	8	5670	10	<10	432	0.23	<10	<10	293	<10	14	--

Certified by Hart Bichler





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

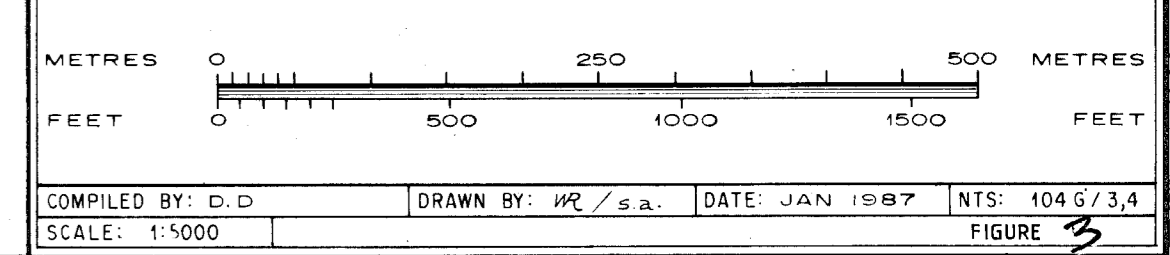
15,806

LEGEND

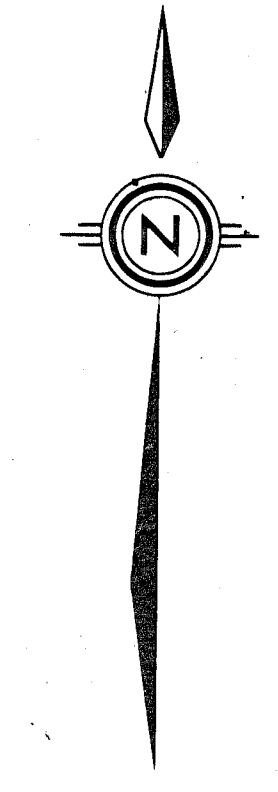
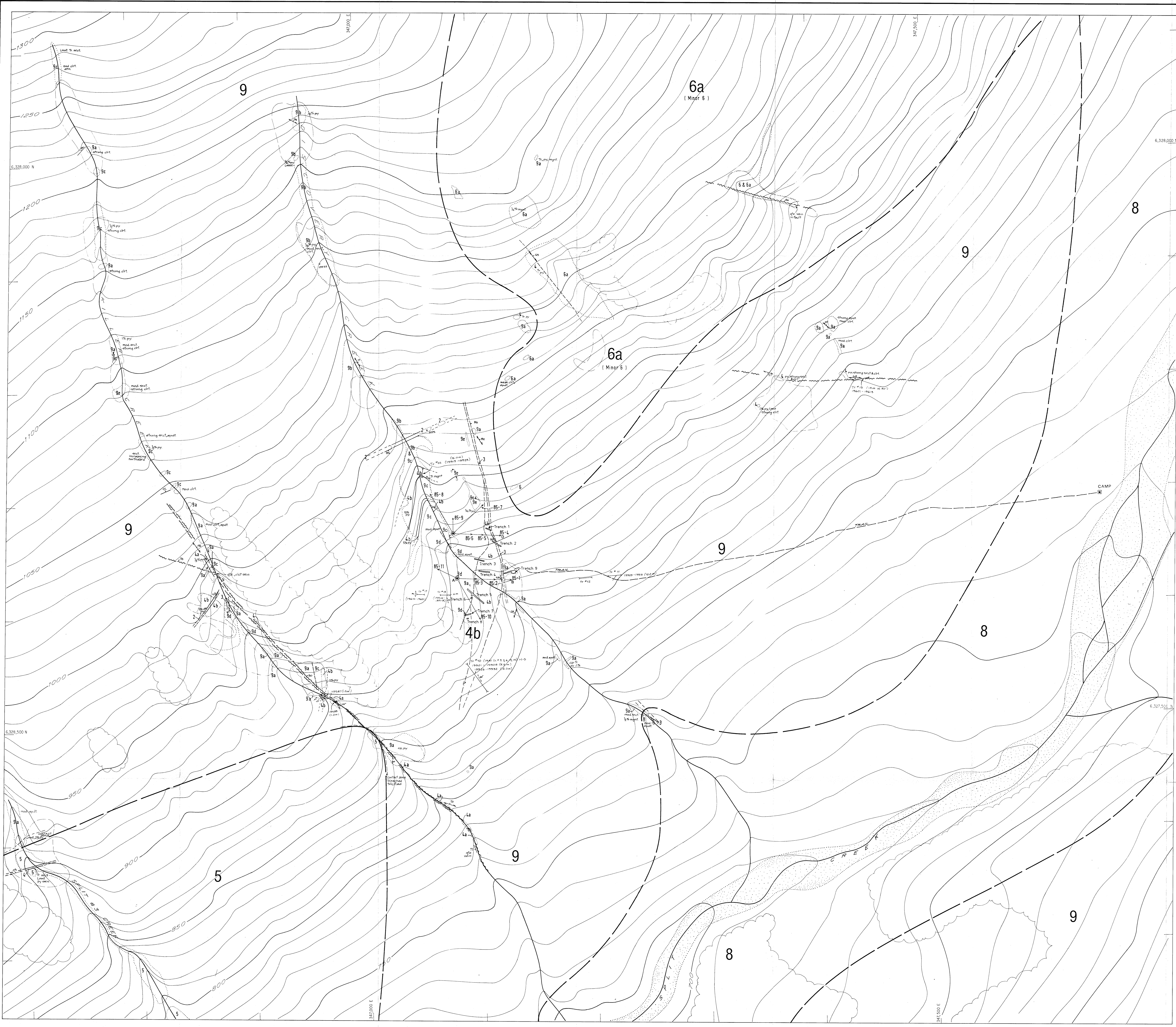
- 1 LAMPROPHYRE DYKES
- 2 DIORITE DYKES
- 3 ANDESITE DYKES
- 3a BASALT DYKES
- 3b DIABASE DYKES
- 4 ALTERATION ZONES ASSOCIATED WITH SHEARING - SILICIFIED, PYRITIZED, SERICITIZED, FOLIATED, OCCASIONALLY CHLORITIZED
- 4a ALTERATION ZONES ASSOCIATED WITH SHEARING AND HOSTING LARGE QUARTZ VEINS
- 4b ALTERATION ZONES NOT ASSOCIATED WITH SHEARING - SILICIFIED, SERICITIZED, CHLORITIZED, BLEACHED
- JURASSIC & CRETACEOUS (PROBABLY)
- 5 GRANODIORITE
- TRIASSIC & JURASSIC (FIRST UPPER JURASSIC, PRE-LOWER JURASSIC)
- 6 GYENITE TO MONZONITE, OCCASIONAL DIORITE MENGLITHS
- 6a GRANODIORITE TO MONZONITE
- 7 AMPHIBOLITE (Age Imprecise)
- 8 HORNBLENDE DIORITE
- UPPER TRIASSIC
- 9 VOLCANIC ROCKS
- 9a UNDIVIDED ANDESITE TUFFS (MAINLY COARSE ASH TUFF)
- 9b ANDESITE AGGLOMERATE
- 9c ANDESITE LAPILLI TUFF
- 9d ANDESITE CRYSTAL TUFF & CRYSTAL LAPILLI TUFF
- 9e ANDESITE FINE ASH TUFF
- 9f ANDESITE FLOWS
- 9g THIN-BEDDED SILICEOUS TUFFACEOUS SILTSTONE
- DIAMOND DRILL HOLE
- CONTACT, OBSERVED, INFERRED
- BEDDING
- FOLIATION
- FAULT, WITH DIP
- SAMPLE LOCATION
- py PHYRITE
- cp CHALCOPYRITE
- tr TRACE
- qtz QUARTZ
- mod MODERATE
- epid EPIDOTE
- chl CHLORITE
- ser SERICITE
- lms LIMONITE
- mlt MALACHITE
- magt MAGNETITE
- A - B CROSS SECTIONS
- C - D CROSS SECTIONS
- CLAMS
- SILICIFIED PYRITIZED ZONE

CONSOLIDATED SILVER STANDARD MINES LIMITED  
PAYDIRT OPTION  
STIKINE REGION BRITISH COLUMBIA

COMPILATION MAP



COMPILED BY D.D. DRAWN BY J.K. DATE JAN 1987 INTS 104/134 SCALE 1:1000 FIGURE 5



**LEGEND**

- 1 LAMPROPHYRE DYKES
- 2 DIORITE DYKES
- 3 ANDESITE DYKES
- 3a BASALT DYKES
- 3b DIABASE DYKES
- 4 ALTERATION ZONES ASSOCIATED WITH SHEARING - SILICIFIED, PYRITIZED, SERICITIZED, FOLIATED, OCCASIONALLY GILBERTIZED
- 4a ALTERATION ZONES ASSOCIATED WITH SHEARING AND HOSTING LARGE QUARTZ VEINS
- 4b ALTERATION ZONES NOT ASSOCIATED WITH SHEARING - SILICIFIED, SERICITIZED, PYRITIZED, BLEACHED
- JURASSIC & CRETACEOUS (Probably)
- 5 GRANODIORITE
- TRIASSIC & JURASSIC (POST-UPPER JURASSIC, PRE-LOWER JURASSIC)
- 6 SYENITE TO MONZONITE, OCCASIONAL DIORITE Xenoliths
- 6a GRANODIORITE TO MONZONITE
- 7 AMPHIBOLITE (Age Imprecise)
- 8 HORNBLENDE DIORITE
- UPPER TRIASSIC
- 9 VOLCANIC ROCKS
- 9a UNDIVIDED ANDESITE TUFFS (MAINLY COARSE ASH TUFF)
- 9b ANDESITE AGGLOMERATE
- 9c ANDESITE LAPILLI TUFF
- 9d ANDESITE CRYSTAL TUFF & CRYSTAL-LAPILLI TUFF
- 9e ANDESITE FINE ASH TUFF
- 9f ANDESITE FLOWS
- 9g THIN-BEDDED SILICEOUS TUFFACEOUS SILTSTONE
- 85-9 DIAMOND DRILL HOLE
- 85-10 CONTACT, OBSERVED, INFERRED
- 85-11 BEDDING
- 85-12 FOLIATION
- 85-13 FAULT, WITH DIP
- 85-14 SAMPLE LOCATION
- py PYRITE
- cp CALCOPHYTE
- tr TRACER
- qtz QUARTZ
- mod MODERATE
- epid EPIDOTE
- chl CHLORITE
- ser SERICITE
- lmlt LIMONITE
- mlt MALACHITE
- mgt MAGNETITE
- A-B CROSS SECTIONS
- C-D CROSS SECTIONS

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,806**

CONSOLIDATED SILVER STANDARD MINES LIMITED  
PAYDIRT OPTION  
STIKINE REGION BRITISH COLUMBIA

**GEOLOGY  
MAIN GOLD-BEARING  
ZONE REGION**

METRES 0 50 100 METRES  
FEET 0 100 200 300 FEET

COMPILED BY: G.D. DRAWN BY: M.E./S.A. DATE: JAN. 1987 STS: 104 0733  
SCALE: 1:10000 FIGURE 4