

34 p.



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
Geological, Geochemical, Physical	\$ 47,675.00

AUTHOR(S) David Dunn SIGNATURE(S) [Signature]

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED YEAR OF WORK 1986

PROPERTY NAME(S) Paydirt

COMMODITIES PRESENT Au, Cu

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION Liard NTS 104.G/4E, 3W

LATITUDE 57° 04' N LONGITUDE 131° 32' W

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Split. 1917 (6) (8 units); Creek. 1918. (6) (15 units); Pay. Dirt. 1964. (7) (12 units); Mother 1963 (7) (20 units); Father 1962 (7) (12 units); Daughters 1965 (7) (12 units); Wife 1961 (7) (20 units)

OWNER(S)

(1) Consolidated Silver Standard Mines Limited

MAILING ADDRESS

1100-1199 W. Hastings St. Vancouver, B.C., V6E 3V4

GEOLOGICAL BRANCH ASSESSMENT REPORT

OPERATOR(S) (that is, Company paying for the work)

(1) Consolidated Silver Standard Mines Limited

MAILING ADDRESS

1100-1199 W. Hastings St. Vancouver, B.C., V6E 3V4

15,753

FILMED

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

The property is underlain by andesitic volcanics of Upper Triassic age which show regional propylitic alteration and have been intruded by Jurassic syenites and Cretaceous granodiorites. Mineralization consists of a weak copper porphyry system with associated precious metals values and gold in silicified, pyritized volcanics associated with north trending structures. 185,000 tonnes of 4.11 g/t Au has been drill indicated.

REFERENCES TO PREVIOUS WORK

SMITHERS

FAME REPORT (E147)

15753



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) <b>GEOLOGICAL; GEOCHEMICAL</b>	TOTAL COST <b>47,675.00</b>
--	--------------------------------

AUTHOR(S) **D. Dunn** SIGNATURE(S)

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED **Feb. 16/87** YEAR OF WORK **1986**

PROPERTY NAME(S)

**PAYDIRT**

COMMODITIES PRESENT **Au**

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN **104G-108**

MINING DIVISION **Liard** NTS **104G/4E**

LATITUDE **57° 4' 10"** LONGITUDE **131° 31' 13"**

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that hold the property. Examples: TAX 14, PIPE 2 (Lot 1705), Phoenix (Lot 1705), Mine Lease M 123, Mining or Certified Mining Lease ML 12 (training in pipe)

*" see back "*

OWNER(S)

(1) **Consolidated Silver Standard Mines Limited** (2)

MAILING ADDRESS

OPERATOR(S) (that is, Company paying for the work)

(1) **as above** (2)

MAILING ADDRESS

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

The property is underlain by andesitic volcanics of Upper Triassic age which show regional propylitic alteration and have been intruded by Jurassic syenites and Cretaceous granodiorites. Mineralization consists of a weak copper porphyry system with associated precious metal values in silicified, pyritic volcanics associated with north trending structures. 185,000 tonnes of 4.11 grams/tonne gold has been drill indicated.

REFERENCES TO PREVIOUS WORK

A.R. 14980

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
/ <u>GEOLOGICAL</u> (scale, area) <u>Ground</u> <u>GEOL</u> Photo <u>GEOPHYSICAL</u> (line-kilometres) Ground Magnetic Electromagnetic Induced Polarization Radiometric Seismic Other Airborne	1: 5000 1: 1000 225 ha	Paydirt, Mother, Father	
/ <u>GEOCHEMICAL</u> (number of samples analysed for ....) <u>Soil</u> Silt <u>Rock</u> Other <u>DRILLING</u> (total metres, number of holes, size) Core Non-core	<u>SOIL</u> 105; Au, Cu <u>ROCK</u> 131; Au, Cu <u>HMIN</u> 8; multielement	11	
<u>RELATED TECHNICAL</u> Sampling/assaying Petrographic Mineralogic Metallurgic			
<u>PROSPECTING</u> (scale, area) <u>PREPARATORY/PHYSICAL</u> Legal surveys (scale, area) Topographic (scale, area) Photogrammetric (scale, area) Line/grid (kilometres) Road, local access (kilometres) <u>Trench</u> (metres) Underground (metres)	<u>TREN</u> 166.5 m 11 Trenches	Paydirt	TOTAL COST 47,675.00

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted	Date March 1/88 Rept. No. 15753			Information Class 3

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area)	1:5,000, 2.25 km <sup>2</sup>	Paydirt, Mother, Father	\$ 9,000.00
Ground			
Photo			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ....)			
Soil	105 for Au, Cu	Paydirt, Mother	\$.5,000.00
Silt	8 pan concentrate for Au, 30 element ICP	Mother	\$.2,000.00
Rock	131 for Au, Cu	Paydirt, Mother	\$.13,675.00
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralogic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Legal surveys (scale, area)			
Topographic (scale, area)			
Photogrammetric (scale, area)			
Line/grid (kilometres)			
Road, local access (kilometres)			
Trench (metres)	166.5 m	Paydirt	\$ 18,000.00
Underground (metres)			
<b>TOTAL COST</b>			<b>\$ 47,675.00</b>

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted	Rept. No.			Information Class
Date				

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

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.



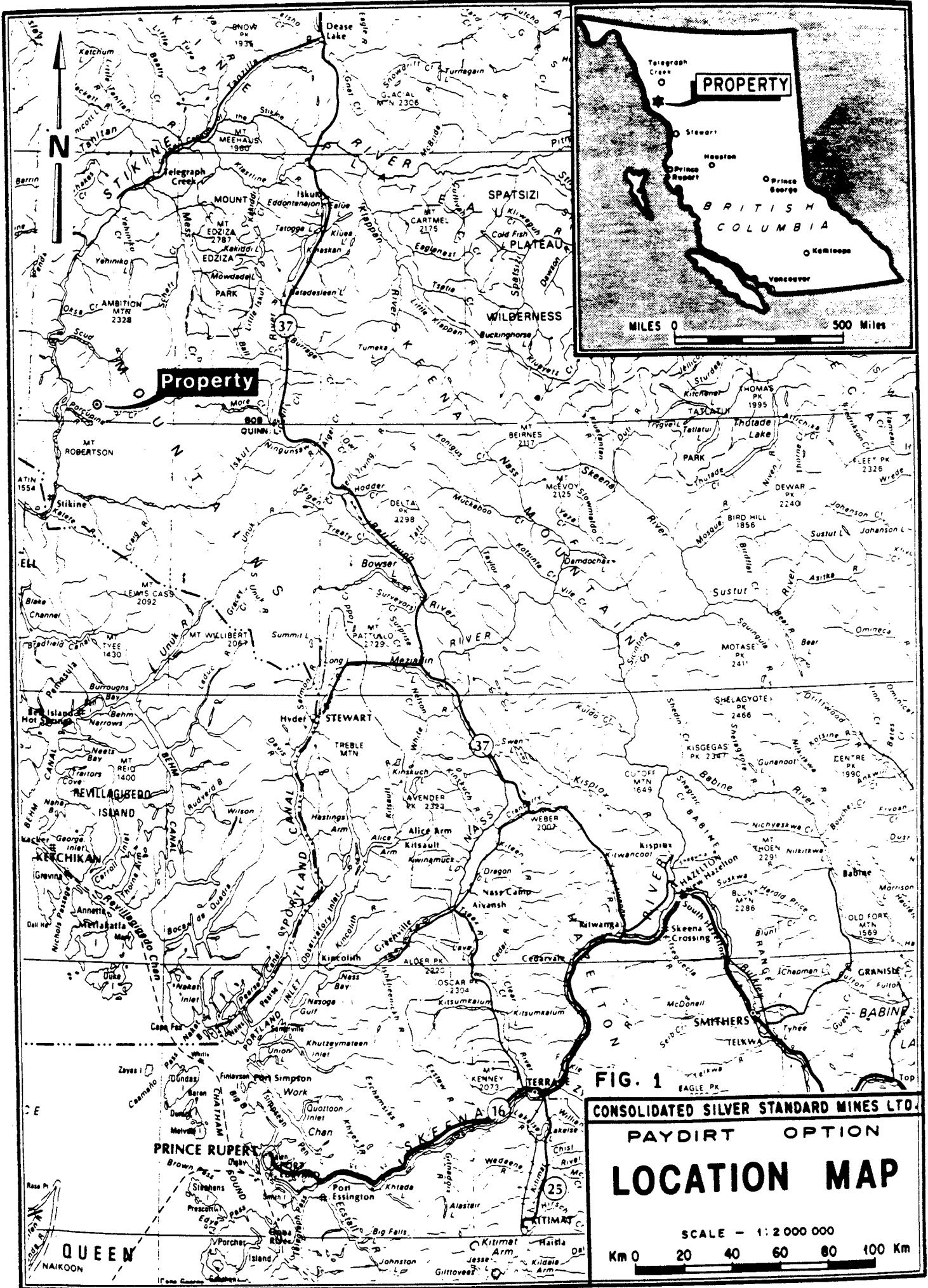
## A. INTRODUCTION

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.



Property

PROPERTY

MILES 0 500 Miles

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

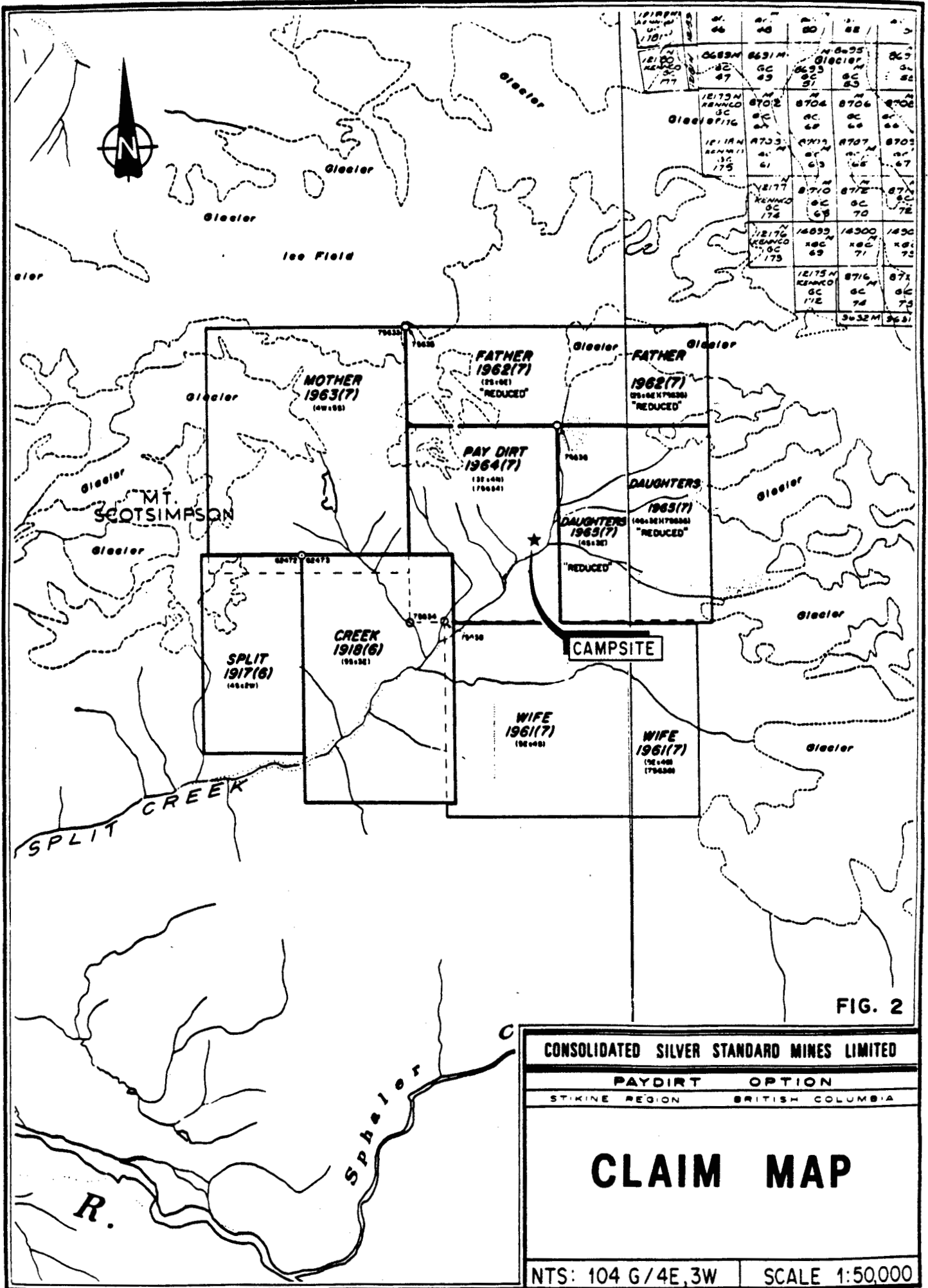
<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Expiry</u>
Split	8	1917	12 June	1991
Creek	15	1918	12 June	1991
Wife	20	1961	23 July	1997
Father	12	1962	23 July	1997
Mother	20	1963	23 July	1997
Paydirt	12	1964	23 July	1997
Daughters	12	1965	23 July	1997

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

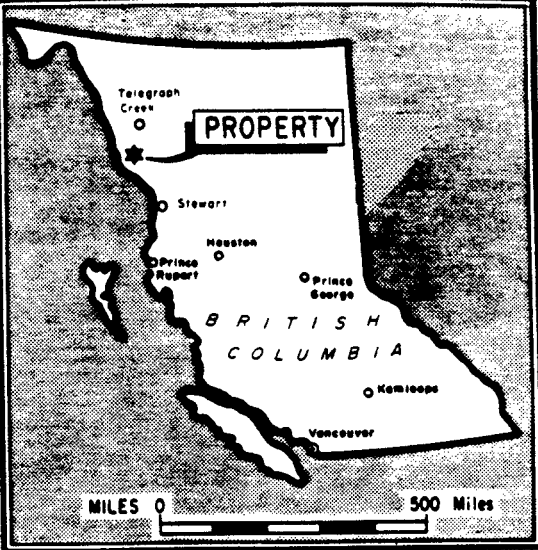
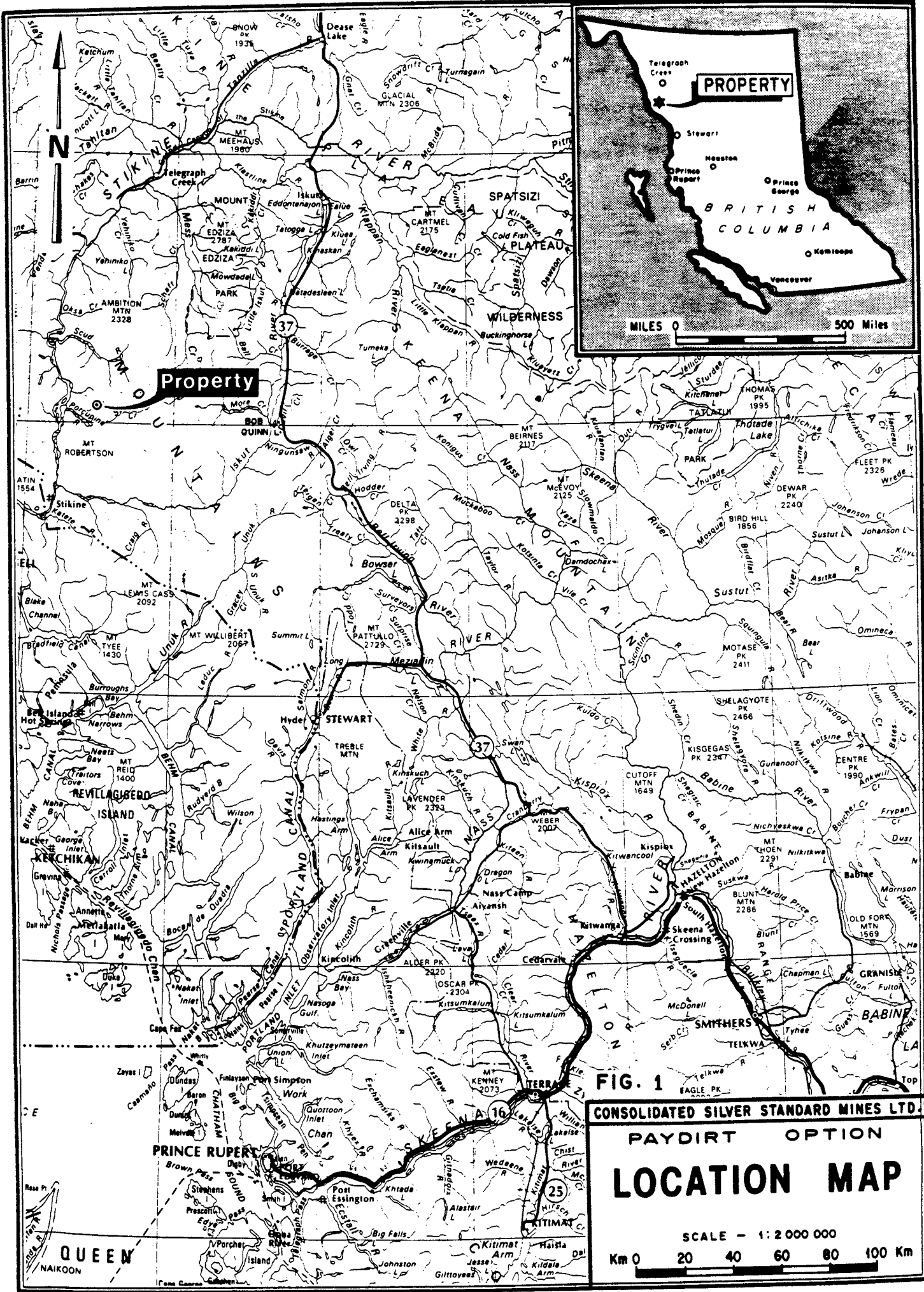
This report includes detailed geological mapping at a scale of 1:5,000 of the intervening 2.25 km between Split #2 and Split #3 Creeks, describes 166.5 m of hand trenching using explosives and a Wajax pump, and discusses the results of 131 rock samples and 105 soil samples.

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



12180 KENNEDY GC 177	12173 KENNEDY GC 175	12176 KENNEDY GC 174	12175 KENNEDY GC 173	12174 KENNEDY GC 172	12173 KENNEDY GC 171
6689M	6631M	6693	6705	6706	6708
62	63	64	65	66	67
67	68	69	70	71	72
68	69	70	71	72	73
69	70	71	72	73	74
70	71	72	73	74	75
71	72	73	74	75	76
72	73	74	75	76	77
73	74	75	76	77	78
74	75	76	77	78	79
75	76	77	78	79	80
76	77	78	79	80	81
77	78	79	80	81	82
78	79	80	81	82	83
79	80	81	82	83	84
80	81	82	83	84	85
81	82	83	84	85	86
82	83	84	85	86	87
83	84	85	86	87	88
84	85	86	87	88	89
85	86	87	88	89	90
86	87	88	89	90	91
87	88	89	90	91	92
88	89	90	91	92	93
89	90	91	92	93	94
90	91	92	93	94	95
91	92	93	94	95	96
92	93	94	95	96	97
93	94	95	96	97	98
94	95	96	97	98	99
95	96	97	98	99	100
96	97	98	99	100	101
97	98	99	100	101	102
98	99	100	101	102	103
99	100	101	102	103	104
100	101	102	103	104	105
101	102	103	104	105	106
102	103	104	105	106	107
103	104	105	106	107	108
104	105	106	107	108	109
105	106	107	108	109	110
106	107	108	109	110	111
107	108	109	110	111	112
108	109	110	111	112	113
109	110	111	112	113	114
110	111	112	113	114	115
111	112	113	114	115	116
112	113	114	115	116	117
113	114	115	116	117	118
114	115	116	117	118	119
115	116	117	118	119	120
116	117	118	119	120	121
117	118	119	120	121	122
118	119	120	121	122	123
119	120	121	122	123	124
120	121	122	123	124	125
121	122	123	124	125	126
122	123	124	125	126	127
123	124	125	126	127	128
124	125	126	127	128	129
125	126	127	128	129	130
126	127	128	129	130	131
127	128	129	130	131	132
128	129	130	131	132	133
129	130	131	132	133	134
130	131	132	133	134	135
131	132	133	134	135	136
132	133	134	135	136	137
133	134	135	136	137	138
134	135	136	137	138	139
135	136	137	138	139	140
136	137	138	139	140	141
137	138	139	140	141	142
138	139	140	141	142	143
139	140	141	142	143	144
140	141	142	143	144	145
141	142	143	144	145	146
142	143	144	145	146	147
143	144	145	146	147	148
144	145	146	147	148	149
145	146	147	148	149	150
146	147	148	149	150	151
147	148	149	150	151	152
148	149	150	151	152	153
149	150	151	152	153	154
150	151	152	153	154	155
151	152	153	154	155	156
152	153	154	155	156	157
153	154	155	156	157	158
154	155	156	157	158	159
155	156	157	158	159	160
156	157	158	159	160	161
157	158	159	160	161	162
158	159	160	161	162	163
159	160	161	162	163	164
160	161	162	163	164	165
161	162	163	164	165	166
162	163	164	165	166	167
163	164	165	166	167	168
164	165	166	167	168	169
165	166	167	168	169	170
166	167	168	169	170	171
167	168	169	170	171	172
168	169	170	171	172	173
169	170	171	172	173	174
170	171	172	173	174	175
171	172	173	174	175	176
172	173	174	175	176	177
173	174	175	176	177	178
174	175	176	177	178	179
175	176	177	178	179	180
176	177	178	179	180	181
177	178	179	180	181	182
178	179	180	181	182	183
179	180	181	182	183	184
180	181	182	183	184	185
181	182	183	184	185	186
182	183	184	185	186	187
183	184	185	186	187	188
184	185	186	187	188	189
185	186	187	188	189	190
186	187	188	189	190	191
187	188	189	190	191	192
188	189	190	191	192	193
189	190	191	192	193	194
190	191	192	193	194	195
191	192	193	194	195	196
192	193	194	195	196	197
193	194	195	196	197	198
194	195	196	197	198	199
195	196	197	198	199	200

FIG. 2



**FIG. 1**  
**CONSOLIDATED SILVER STANDARD MINES LTD.**  
**PAYDIRT OPTION**  
**LOCATION MAP**  
 SCALE - 1:200 000  
 Km 0 20 40 60 80 100 Km

## 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 sericitized 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° and 135° (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 sericitized 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.

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

Analytical Chemists • Geochemists • Registered Assayers

## CERTIFICATE OF ASSAY

TO : CONSOLIDATED SILVER STANDARD MINES LIMITED

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

*op Box 662  
Smithers, BC. VOJ 2N0*

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

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	--	--	--	--	--	--

VOI rev. 4/85

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



# Chemex Labs Ltd.

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

Analytical Chemists • Geochemists • Registered Assayers

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

*NO CONSOLIDATED SILVER STD.  
Box 602  
SMITHERS, BC  
V0J 2N0*

CERT. # : A8615768-001-A  
INVOICE # : 18615768  
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	--	--	--	--	--

*Blawie*

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

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.O. # : 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

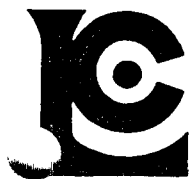
11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8616153-001-A  
INVOICE # : I8616153  
DATE : 17-AUG-86  
P.O. # : 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	--	--	--	--	--

VOI rev. 4/85

.....*W. St. Martin*.....  
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

TO : 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.O. # : NONE  
C-1016

CC: DAVID DUNN

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 Bickler*

**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	--	--	--

Certified by Hart Bichler



# Chemex Labs Ltd.

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

Analytical Chemists • Geochemists • Registered Assayers

## 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. # : NONE  
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. # : A8616240-001-4  
INVOICE # : 18616240  
DATE : 21-AUG-86  
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)	Mg % (ICP)	V ppm (ICP)	Al % (ICP)	Be ppm (ICP)	Ca % (ICP)	Cu ppm (ICP)	Ag ppm AAS	Ti % (ICP)	Sr ppm (ICP)	Na % (ICP)	K % (ICP)
OS-1-A1+A2 -80	5	<10	15	2210	4	<2	<0.5	5	20	1550	4.10	330	45	0.93	194	6.30	<0.5	2.40	61	0.2	0.545	420	1.88	2.45
OS-1-B1+B2 -90	6	<10	20	1660	6	<2	<0.5	22	12	1600	6.38	375	37	1.65	335	6.95	<0.5	1.78	390	0.2	0.556	335	1.80	2.59
OS-1-C1+C2 -90	27	<10	27	2130	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	5.20	<0.5	1.05	240	0.2	0.447	265	0.87	1.44
OS-2-B1+B2 -80	3	<10	44	2070	2	<2	<0.5	30	12	1190	8.67	530	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	3110	12	<2	<0.5	51	17	925	10.60	900	52	2.95	200	6.62	<0.5	1.38	1670	0.2	0.426	245	1.19	2.19
OS-1-A1+A2 +80	3	<10	10	1350	8	<2	<0.5	5	5	1370	3.73	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	8.36	<0.5	2.49	465	0.2	0.499	465	2.12	3.85
OS-2-A1+A2 +80	3	<10	18	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	335	56	1.81	186	6.99	<0.5	0.82	193	0.2	0.230	315	2.03	2.46
OS-2-C1+C2 +80	3	<10	37	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	38	1610	6	<2	<0.5	18	9	1390	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.

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

Analytical Chemists • Geochemists • Registered Assayers

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	--	--	--	--	--
96 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

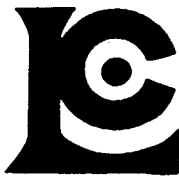
11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

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

*C/o Consolidated Silver Std.  
Box 662  
Smithers, BC V0J 2N0*

Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

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, Ti, Tl, W and V can only be considered as semi-quantitative.

COMMENTS : ✓  
CC: DAVID DUNN

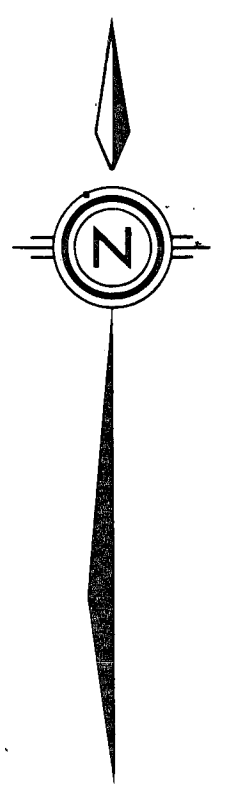
TO : CONSOLIDATED SILVER STANDARD MINES LIMITED  
11th Floor, 1199 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 3T5

CERT. # : A8616154-001-A  
INVOICE # : I8616154  
DATE : 19-AUG-86  
P.O. # : NONE  
C-1016

Sample description	Au ppb EA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu 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	8600	2.22	3.6	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	283	3.18	10	0.26	10	0.61	355	1	0.01	11	1460	24	<10	300	0.16	<10	<10	119	<10	20	--
19580	400	1.90	1.6	20	190	<0.5	<2	2.18	<0.5	54	78	384	6.36	10	0.32	10	0.68	365	5	0.01	12	3090	16	<10	372	0.22	<10	<10	165	<10	34	--
19581	110	2.22	1.4	30	230	<0.5	<2	2.46	<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	615	1.93	1.2	20	130	<0.5	<2	1.84	<0.5	67	90	260	8.12	10	0.15	10	0.96	587	7	0.01	24	2140	18	<10	380	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	0.6	20	510	<0.5	<2	2.30	<0.5	23	87	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	2.09	0.4	20	260	<0.5	<2	3.92	<0.5	12	70	925	3.44	20	0.21	<10	0.49	481	9	0.01	8	5670	10	<10	482	0.23	<10	<10	203	<10	14	--

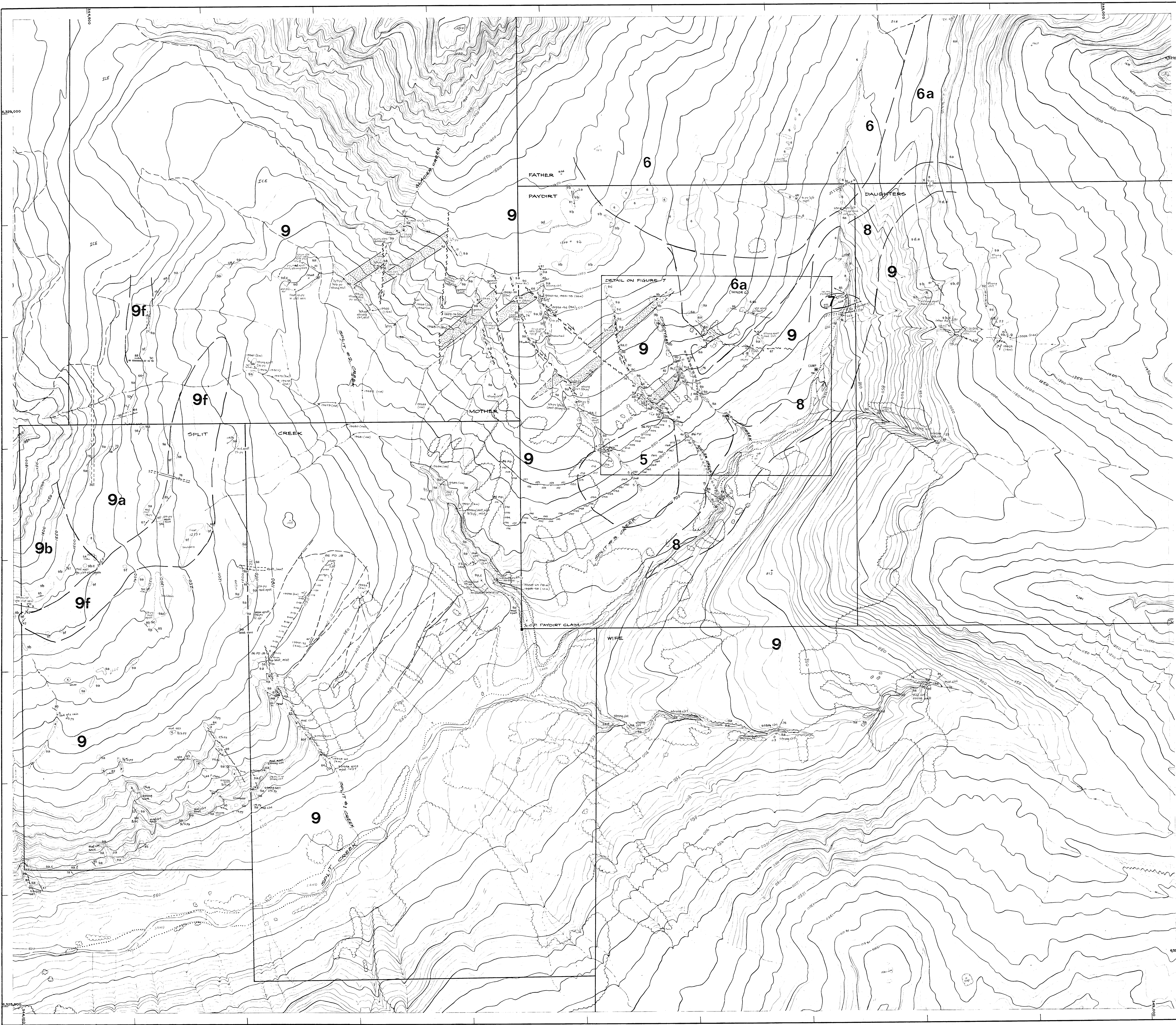
Certified by *Hart Bichler*

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TR805527



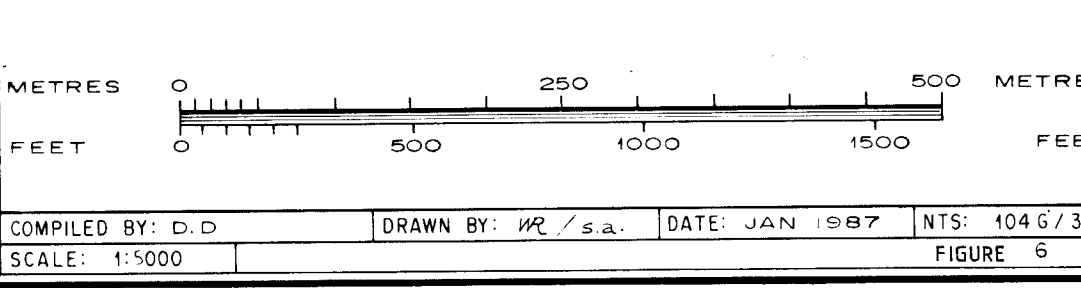
LEGEND

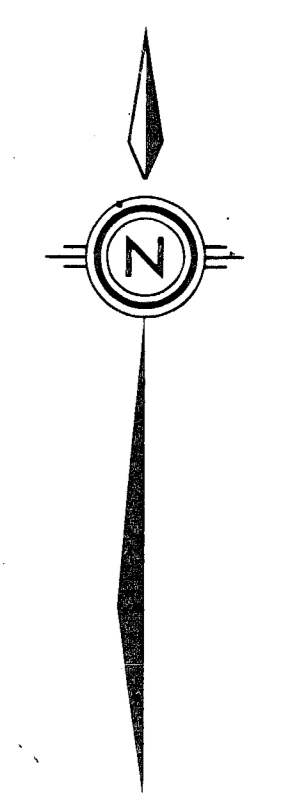
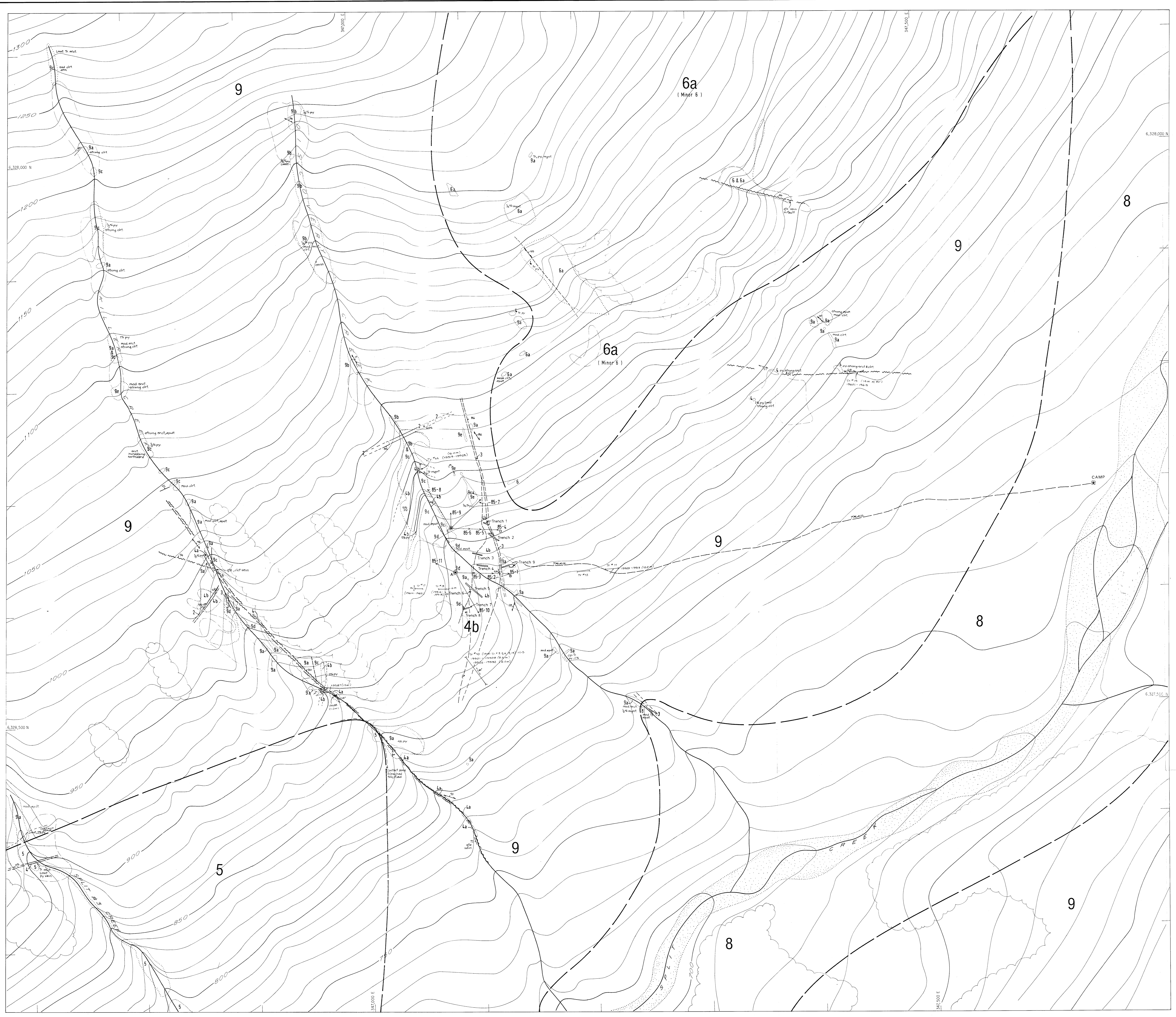
- 1 LAMPROPHYRE DYKES
- 2 DIORITE DYKES
- 3 ANDESITE DYKES
  - 3a BASALT DYKES
  - 3b DIABASE DYKES
- 4 ALTERATION ZONES ASSOCIATED WITH SHEARINGS - SILICIFIED, PYRITIZED, SERICITIZED, FOLIATED, OCCASIONALLY CHLORITIZED
  - 4a ALTERATION ZONES ASSOCIATED WITH SHEARINGS AND HOSTING LARGE QUARTZ VEINS
  - 4b ALTERATION ZONES NOT ASSOCIATED WITH SHEARINGS - SILICIFIED, SERICITIZED, CHLORITIZED, BLEACHED
- JURASSIC & CRETACEOUS (Probably)
  - 5 GRANODIORITE
- TRIASSIC & JURASSIC (POST UPPER JURASSIC, PRE-LOWER JURASSIC)
  - 6 SYENITE TO MONZONITE, OCCASIONAL DIORITE KENOLITHS
    - 6a GRANODIORITE TO MONZONITE
  - 7 AMPHIBOLITE (Age Improbable)
  - 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 CRYSTALL TUFF & CRYSTALL-LAPILLI TUFF
    - 9e ANDESITE FINE ASH TUFF
    - 9f ANDESITE FLOWS
    - 9g THIN-BEDDED SILICEOUS TUFFACEOUS SILTSTONES
- 9a DIAMOND DRILL HOLE
- 9b CONTACT, OBSERVED, INFERRED
- 9c BEDDING
- 9d FOLIATION
- 9e FAULT, WITH DIP
- 9f SAMPLE LOCATION
- py PYRITE
- cp CHALCOPYRITE
- tr TRACE
- qtz QUARTZ
- mod MODERATE
- epht EPIDOTE
- chl CHLORITE
- serc SERICITE
- lmsc LIMONITE
- mlg MALACHITE
- magt MAGNETITE
- A-B CROSS SECTIONS
- C-D CLAIMS
- SILICIFIED PYRITIZED ZONE



CONSOLIDATED SILVER STANDARD MINES LIMITED  
PAYDIRT OPTION  
STIKINE REGION BRITISH COLUMBIA

COMPILATION MAP





**LEGEND**

- 1 LAMPROPHYRE DYKES
- 2 DIORITE DYKES
- 3 ANDESITE DYKES
- 3a BASALT DYKES
- 3b DIABASE DYKES
- 4 ALTERATION ZONES ASSOCIATED WITH SHEARING - SILICIFIED, PHTHICIZED, SERICITIZED, FOLIATED, OCCASIONALLY CHLORITIZED
- 4a ALTERATION ZONES ASSOCIATED WITH SHEARING AND HOSTING LARGE QUARTZ VEINS
- 4b ALTERATION ZONES NOT ASSOCIATED WITH SHEARING - S.S. PHTHIC SERICITIZED, SILICIFIED, 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
- DIAMOND DRILL HOLE
- CONTACT, OBSERVED, INFERRED
- BEDDING
- FOLIATION
- FAULT, WITH DIP
- SAMPLE LOCATION
- py PYRITE
- cp CHALCOPYRITE
- tr TRACE
- qtz QUARTZ
- mod MODERATE
- epid EPIDOTE
- chl CHLORITE
- ser SERICITE
- lim LIMONITE
- mal MALACHITE
- magt MAGNETITE

A - B CROSS SECTIONS  
C - D

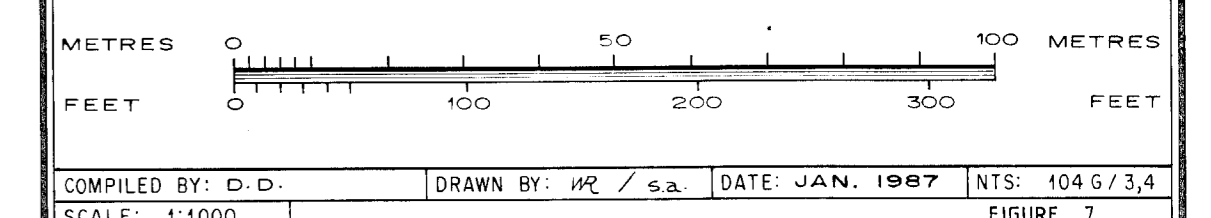
**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**15,753**

CONSOLIDATED SILVER STANDARD MINES LIMITED

PAYDIRT OPTION  
STIKINE REGION BRITISH COLUMBIA

**GEOLOGY  
MAIN GOLD-BEARING  
ZONE REGION**



COMPILED BY: D.D. DRAWN BY: JR / SA DATE: JAN. 1987 NTS: 10427.3A  
SCALE: 1:1000 FIGURE 1