

4795

82E/2E

GEOLOGICAL SURVEY

SIL 1, SIL 2 Fr, SIL 3-8

Greenwood M.D.

118-50 SW 2-8-73:3-8-73
82E/2E 27-10-73 : 31-10-73

December 18, 1973 4795

For:

SILCAN RESOURCES LTD.

P.O. Box 816
208 Professional Building
Lethbridge, Alberta

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 4795 M.P. _____

By:

ALLEN GEOLOGICAL ENGINEERING LTD.

601 0 325 Howe Street
Vancouver, B.C.

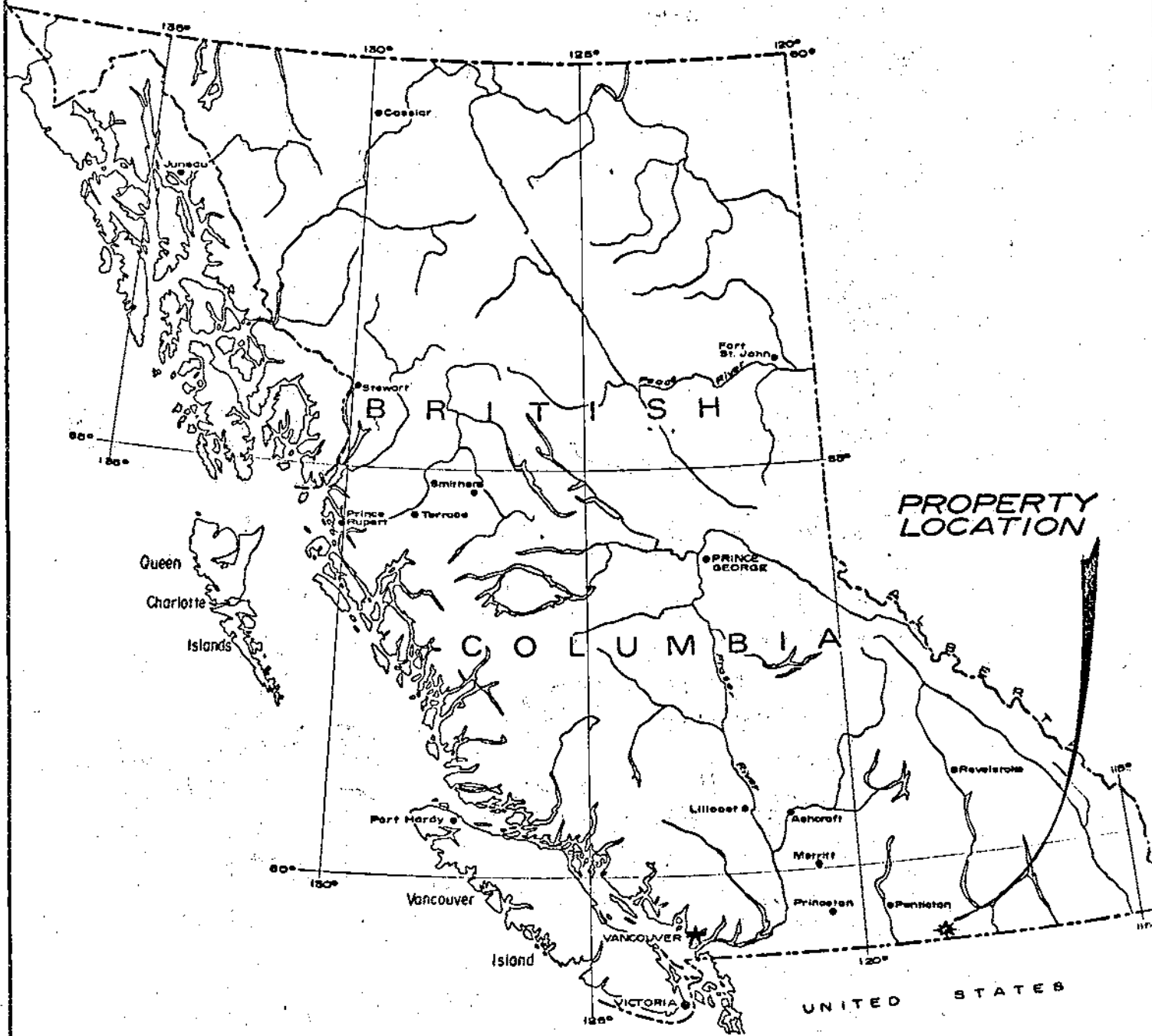
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- #1 S-1 Location Map
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- #3 S-3 Claims Map

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Mines and mineral resources
 Assessment Report
 No. 4795 MAP #1

SILCAN RESOURCES LTD.		
LOCATION MAP		
SCALE: 1" = 136 Mls.		
Drawn by	Date	ALLEN COLOD
	Dec. 173	
Checked by	<i>Allen Colod</i>	

GEOLOGICAL SURVEY

SIL 1, SIL 2 Fr., SIL 3-8

GREENWOOD M.D. B.C.

INTRODUCTION

The SIL claims were examined by the writer August 2, 3 and October 27-31 inclusive, 1973.

Existing topographic and geological maps and aerial photos were beneficial to the survey and control was provided by the many roads over the property as well as the hydro and gas lines.

The geology is shown on Map S-2 accompanying this report.

LOCATION AND ACCESSIBILITY

The property is located in south central British Columbia, between the village of Greenwood and the U.S. border, at $49^{\circ}-01'$ north latitude and $118^{\circ}-39'-20''$ west longitude.

From highway #3, at Boundary Falls, 2 miles south of Greenwood, there is a good secondary road which follows up McCarren Creek easterly to the property, a distance of 5 miles.

PROPERTY

The following adjoining mineral claims were located August 5, 1972.

SIL 1	Record Number	36092
SIL 2 Fraction	" "	36093
SIL 3-8 inclusive	" "	36094-99 inclusive

TOPOGRAPHY

McCarren Creek flows west across the property. Small intermittent tributary streams trend north and south. Creek elevation on the central part of the property is 3,750 feet above sea level.

From the creek valley gentle slopes and rounded ridges extend off the property to Mt. Wright at elevation 5,250 feet on the southeast and Mt. Atwood to the northeast at 5,400 feet elevation above sea level.

McCarren Creek flows into Boundary Creek at 2,000 feet elevation.

Outcrops are plentiful and overburden appears light.

GEOLOGICAL SURVEY

A geological survey was conducted over the property by the writer. The survey was started August 2nd and 3rd, 1973, but work was stopped by the Forestry Department because of serious fires throughout the entire boundary area. The survey was completed by the writer October 27th, 28th, 29th, 30th and 31st, 1973.

Logging is in progress on and near the property. The pipe and gas lines and numerous roads which criss-cross the property were traversed.

Pace and Brunton compass traverses were made between the roads. The topography was sketched. Outcrops were located, details of the geology noted, and all data placed on a field map. The geology is shown on map S-2 in the pocket of this report.

GEOLOGY

The McCarren Creek area is underlain by Carboniferous and older rocks of sedimentary origin. These have been folded, faulted, strongly metamorphosed and intruded by diorite dykes. Quartz veins occupy tension fissures. A granodiorite stock outcrops north of the property near Greenwood. Small and scattered Tertiary remnants are evident near, but not on the property. Gold, silver and copper deposits occur throughout the Greenwood area.

The most common rock exposed on the claims is phyllite. Within this massive rock are bands of siliceous argillite, schist and quartzite. These rocks are finely banded, contorted, and fractured. The general strike is northwesterly and dip flat to 20 degrees northeast or southwest. Diorite dykes trend northerly and dip steeply to vertical. Strong shearing trends generally northwesterly. One band of serpentine occurs adjacent to a series of feldspar porphyry diorite dykes on SIL 1 claim.

The phyllite observed is of three types, namely:

1. Black, massive fine-grained rock, thick bedded and finely banded with light grey quartz-feldspar material. Weathered surfaces are dark green. Chlorite, biotite and micas are the major constituents.
2. Lighter greenish black argillaceous phyllite. White mica and siliceous very fine-grained bands of argillite give the weathered surface a light green and dark green banded appearance, with many brownish bands.
3. Siliceous light grey to cream coloured rock with much white mica, flinty quartzitic bands, irregular vuggy calcitic veins, and quartz stringers.

Quartzite, or contact material, near diorite is fairly common. This rock is light greyish-green, micaceous and contorted. It weathers light grey to reddish brown. It is evident near the main road, on the hydro line adjacent to diorite porphyry and a lense of white impure quartz.

Diorite dykes, 10 to 200 feet wide, are composed of biotite and hornblende with dark feldspars and white angular feldspar phenocrysts. Narrow chilled borders occur at the sharp contacts with the phyllite.

A band of serpentine is located in phyllite adjacent to a series of diorite dykes on the SIL 1 claim. The rock weathers brown to orange-red and light green. It has a soapy feel and fractures into sharp curved platy fragments. It contains minor cubic pyrite and is weakly magnetic. It is highly contorted but appears to be nearly flat lying. The full extent of the zone is blanked by overburden, but it appears to be in excess of 100 feet wide.

The one impure silica deposit exposed on the property is about 35 feet wide, strikes north 10 degrees east, and dips west to vertical. It lies adjacent to a feldspar porphyry diorite dyke a few feet east of the road up to the major Silica deposits on the hydro line. Mica and feldspar specks are evident in the quartz, and red weathering indicates possible minor pyrite content.

General structural trends are northwesterly with flat dips for the phyllites, and northerly with steep dips for the diorite dykes. Minor breccia bands occur between some diorite dykes.

Alfred R. Allen, P.Eng.

GEOLOGICAL SURVEY

GREENWOOD, M.D.

Expenditures

Alfred R. Allen, P.Eng.,

August 2 & 3, 1973

October 27, 28, 29, 30, 31, 1973

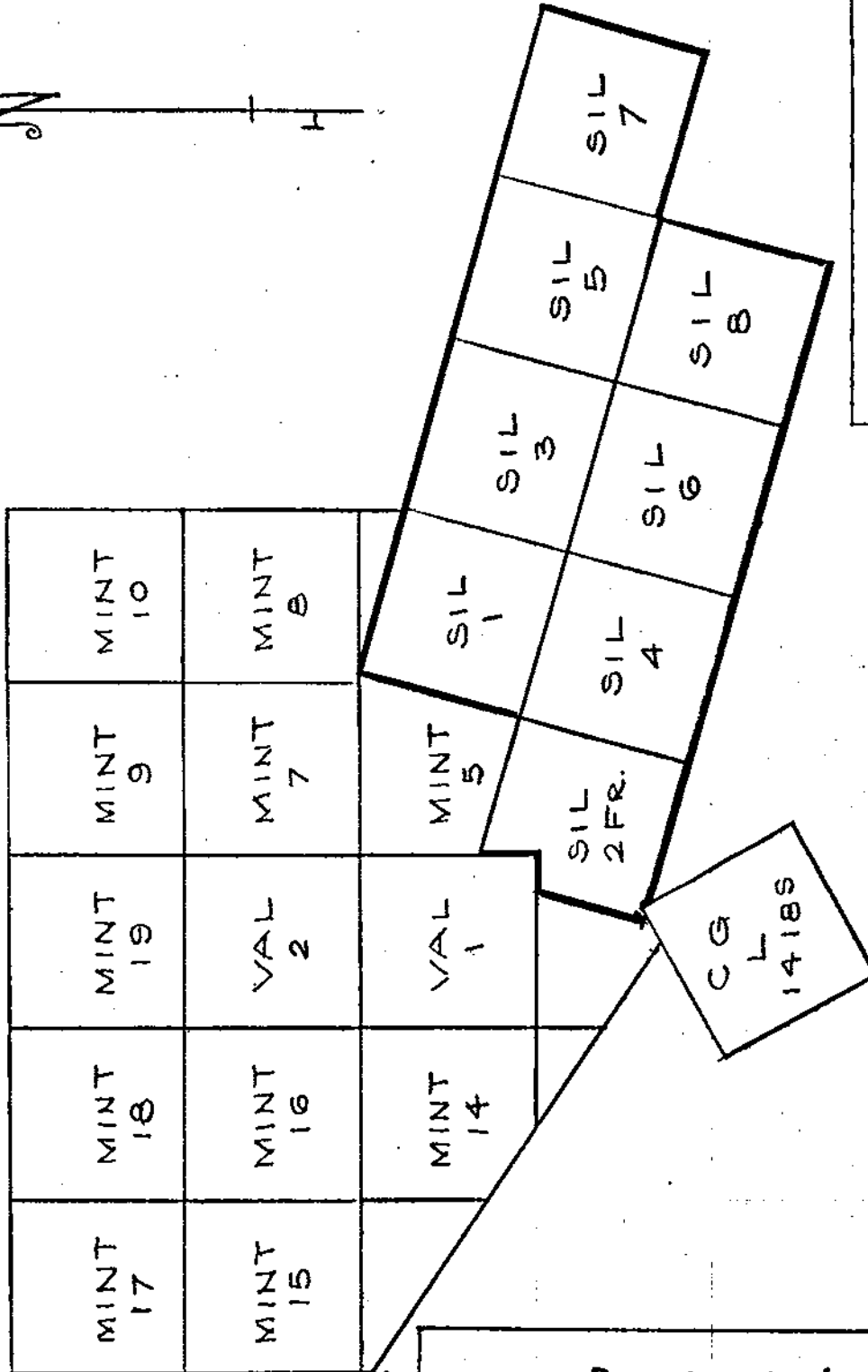
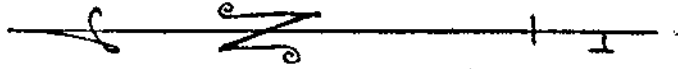
Maps , Office	\$ 46.00
Fees	<u>\$800.00</u>
Total	\$846.00

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 27
day of December 1973, A.D.

Alfred R. Allen

John L. L...
A Commissioner for taking Affidavits within British Columbia
A Notary Public in and for the Province of British Columbia

Sub-mining Recorder



SILCAN RESOURCES LTD.
GREENWOOD B.C.

MINERAL CLAIMS

0 1500 3000

S-3 Scale - FEET.

Dec. 19-73 *Capitol B. Allen* P. Eng.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **4795** MAP **#3**

NOTE: 4795S Not included in Silcan Resources Holdings.

SUMMARY AND CONCLUSIONS

The SIL mineral claims lie adjacent to the MINT and VAL claims where sizeable deposits of white quartz occur in phyllite. The SIL claims area appears to be underlain by nearly flat-lying phyllites trending northwesterly. Diorite porphyry dykes cut the phyllites, and there are brecciated phyllites at and between some dykes. The dykes are vertical and strike close to north south. A band of serpentine lies adjacent to a large diorite porphyry dyke on the SIL #1 claim. No sizeable veins of white quartz are evident.

It is concluded that the SIL claims are underlain by phyllites with diorite dykes and the possibility of finding high grade quartz deposits is practically nil, hence no more exploratory work is recommended on the SIL claims.

Respectfully submitted,

ALLEN GEOLOGICAL ENGINEERING LTD.

Per Alfred R. Allen P. Eng.
Alfred R. Allen

Vancouver, B.C.

December 18, 1973.

REFERENCES

- McNaughton, D.C., G.S.C., Paper 45-20, 1945
- Map #10 - 1967, G.S.C. Paper 67-42
- A.C.A. Howe, The Greenwood Silica Deposit
November, 1964
- M.E. Hertel, G.L., Crippen & Associates,
personal communication 1969
- A.R. Allen, A Silica Property near Greenwood, Oct.14, 1969.
- Allen, A.R., Geological Survey VAL 1&2, MINT 5, 7-10, 15-19
September 18, 1972.

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Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 4795 MAP #2

M2

LEGEND

SWELLING	
GRANITE	
QUARTZ	
SEDIMENTARY FORMATIONS	
ADVERSE EFFECTS	

SILCAN RESOURCES A.P. 10/13	
GEOLOGY	
Scale: 1:50,000	Map No. 4795
DATE: 1987	BY: [Signature]
NO. 5-2	Re. [Signature]

4795