

MINING ACT  
ASSESSMENT REPORT  
NO. 6419

GEOCHEMICAL REPORT  
ON  
THE 82L/13 SC GROUP  
OF  
CRAIGMONT MINES LIMITED  
AT  
SHUSWAP LAKE, B.C.  
BY  
N.B. Vollo, P.Eng.  
September 27/1977

6419 part 1 of 2

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Maps in Pocket

Geochemical Plan, Total Zn,	1:5000
" " " Cu,	1:5000
" " " Pb,	1:5000

SUMMARY

Geochemical soil surveys for copper, lead and zinc were carried out over approximately 15 and 16 km. of grid on the SC-1 and SC-3 claims respectively. A broad zone of anomalous zinc and copper, containing smaller, more localized lead anomalies, occurs within the lower part of the ignimbrite member of the Eagle Bay formation, within 1000 metres of its contact with the underlying Sicamous formation. The anomalies appear to be due to pyrrhotite-pyrite-chalcopyrite-sphalerite mineralization in chloritized zones and should be tested by trenching or drilling.

GENERAL

The claims are located approximately 4 km north of Shuswap Lake, between Scotch and Corning (Lee) Creeks, about 65 km east of Kamloops. Access is via several good logging roads. Elevations range from 800 to 1400 metres above sea level. The area is covered with a fairly dense growth of cedar, spruce and fir, with considerable undergrowth and except for clearcut areas, travel is difficult.

CLAIMS

The property consists of five claims, all in the Kamloops M.D. as follows:

Scotch,	15	units,	record	number	371
SC-1	,	18	"	"	556
SC-2	,	18	"	"	557
SC-3	,	15	"	"	558
SC-4	,	18	"	"	559

HISTORY AND PREVIOUS WORK

A soil geochemical survey was carried out by Derry, Mitchener and Booth on a 1500' line spacing in 1971, outlining broad zones of anomalous Cu-Pb-Zn within the lower part of the Eagle Bay formation. Two short holes were drilled and the claims allowed to lapse. They were restaked in 1975 and 1976 by Brican Resources Limited and Craigmont Mines.

GEOLOGY

The claims are underlain by the lower part of the Eagle Bay formation and the conformably underlying Sicamous formation (Jones, A.G., GSC Mem. 296, 1959). The Eagle Bay formation, as mapped by the writer in the Adams Plateau area, consists of a lower rhyolite ignimbrite member at least 2500 m thick overlain by andesite flows, tuffs, avalanche breccias, siliceous tufas and sulphides of fumarolic origin aggregating 1500 m in thickness; a siliceous tufa zone containing bedded lead-zinc-silver

deposits and minor limestone, aggregating 2000 metres in thickness and finally andesite and light coloured limestone (Tshinikin). The SC claims are within the lower ignimbrite unit and underlying black limestones and shale of the Sicamous formation.

#### GEOCHEMICAL SURVEY

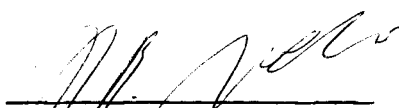
Soil samples were taken at 50 m intervals along lines 200 m apart. A good podzol type soil profile is present and samples were taken in the "B" horizon using soil augers. They were placed in kraft paper envelopes and sent to Kamloops Research and Assay Laboratories. They were dried, screened and the -80 mesh fraction analyzed for zinc, copper and lead using hot aqua regia extraction and the atomic absorption method.

Zinc background is approximately 100 ppm and anomalous zones are shown contoured on the accompanying plan at 200, 400 and 800 ppm. Copper background is about 25 ppm, with anomalous zones shown contoured at 50, 100, 200 and 400 ppm. Lead background is similar and the same contour intervals used.

#### CONCLUSIONS

The anomalous zinc and copper zones occur within the lower 1000 metres of the Eagle Bay ignimbrite member, immediately above its contact with the underlying Sicamous formation. This appears to be characteristic of this unit for long distances and drilling on the adjoining Scotch claim indicates it is due to small zones of pyrrhotite-pyrite-chalcopyrite-sphalerite mineralization associated with chloritized and sericitized zones.

The better anomalies, particularly those associated with lead anomalies and electromagnetic conductors should be tested by trenching or drilling.

  
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N.B. Vollo, P.Eng.  
September 27th, 1977

AFFIDAVIT ON EXPENDITURES

SC-1 CLAIM

Personnel

N.B. Vollo, P.Eng., Supervision & Report, 2 days at \$150 -	\$ 300
L. Loranger, June 2nd-14th, 7 days at \$90 -----	630
J. Smith, " " , 6 days at \$70 -----	420
M. White, " " , 2 days at \$65 -----	130
M. Sartori, " " , 6 days at \$60 -----	360
E. Carlson, " " , 6 days at \$55 -----	330
J. Bristow, Draughting, Plotting, 3 days at \$110 -----	330
	<u>\$2500</u>

Topographic Map, Pacific Survey Corporation, \$1175/4 -----	294
Geochemical Analysis, Kamloops Research & Assay Laboratory	818
Camp expenses -----	282
Vehicle Expense, 339 miles at 20¢, -----	68
	<u>        </u>
Total	<u>\$3962</u>

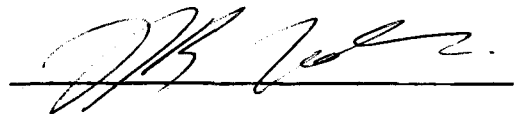
SC-3 CLAIM

Personnel


N.B. Vollo, P.Eng., Supervision & Report, 1 day at \$150---	\$ 150
L. Loranger, Oct. 20-29, 1976, 8 days at \$75 -----	600
M. Walton, " " , " , 9 days at \$60 -----	540
J. Bristow, " " , " , 4 days at \$110 -----	440
	<u>\$1580</u>

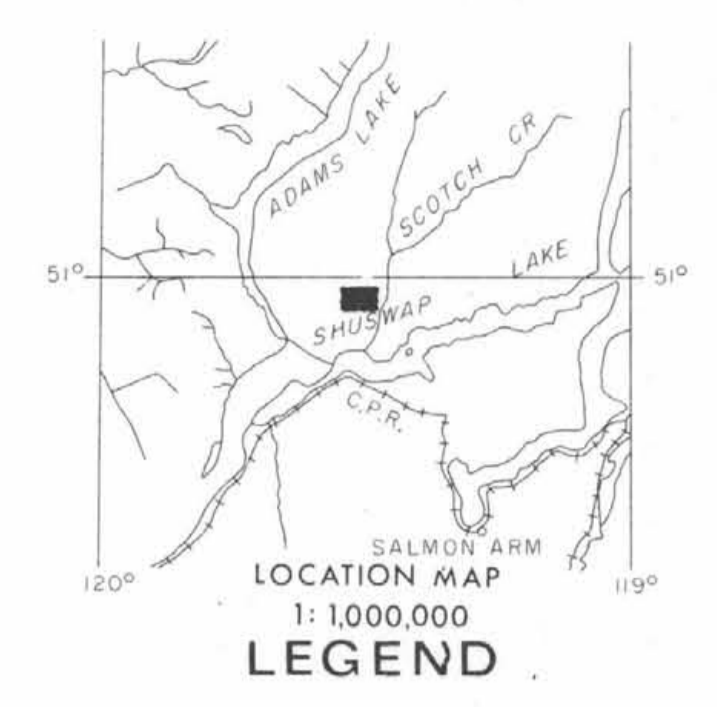
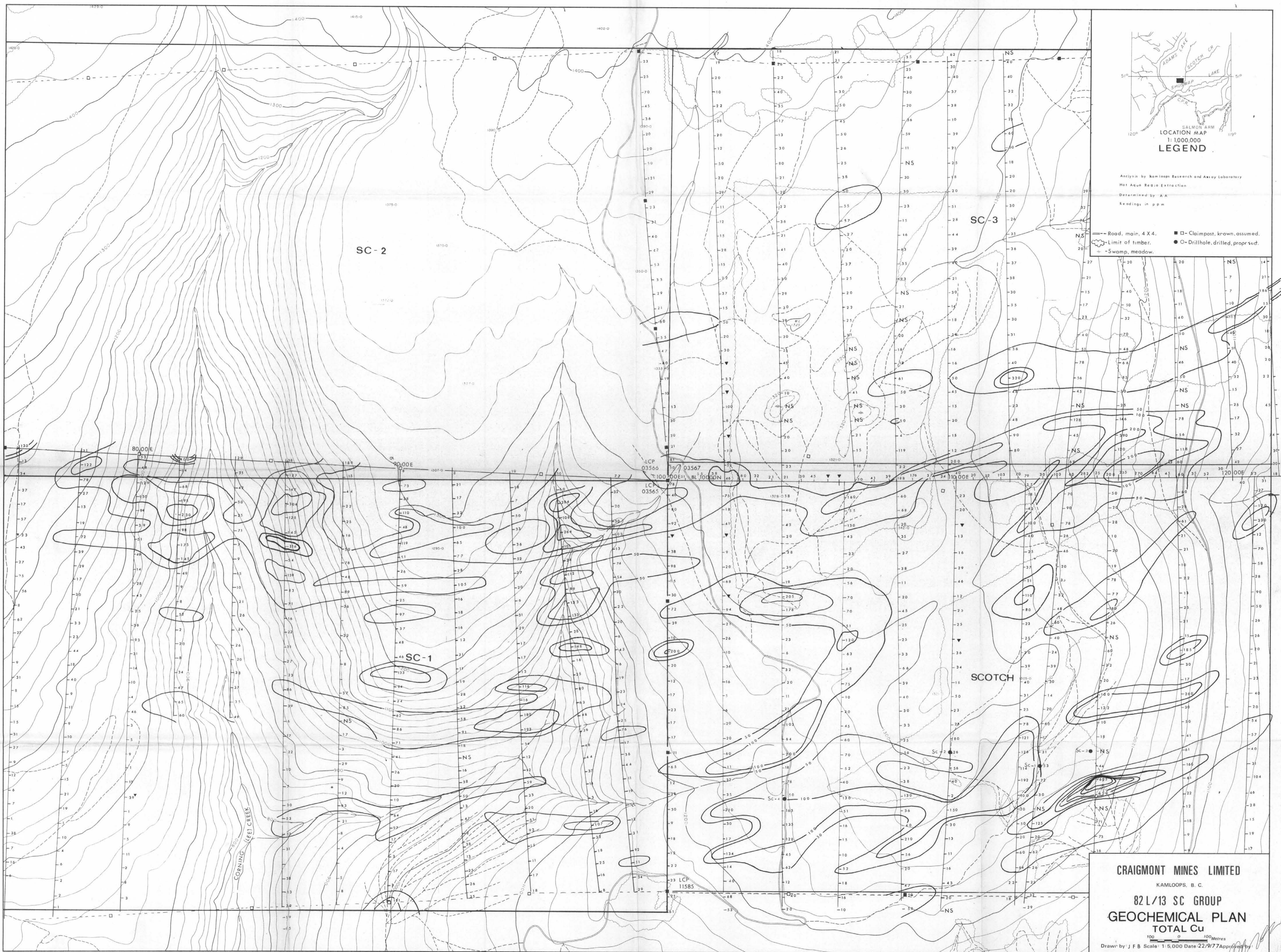
Topographic Map, Pacific Survey Corporation, \$1175/4 -----	294
Geochemical Analysis, Kamloops Research & Assay Laboratory	756
Camp expenses -----	497
Vehicle Expense, 335 miles at 20¢ -----	67
	<u>        </u>
Total	<u>\$3194</u>

I, Nels B. Vollo, of the City of Kamloops in the Province of British Columbia, make the above declaration, concientiously believing it to be true and knowing it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

  
\_\_\_\_\_

Declared before me at the City of Kamloops in the Province of British Columbia, this 30<sup>th</sup> day of September, 1977, A.D.

  
\_\_\_\_\_ *Commissioner for taking Affidavits  
within British Columbia*  
A commissioner for Taking Affidavits for British Columbia



Analysis by Kamloops Research and Assay Laboratory  
 Hot Aqueous Residue Extraction  
 Determined by A.A.  
 Readings in ppm

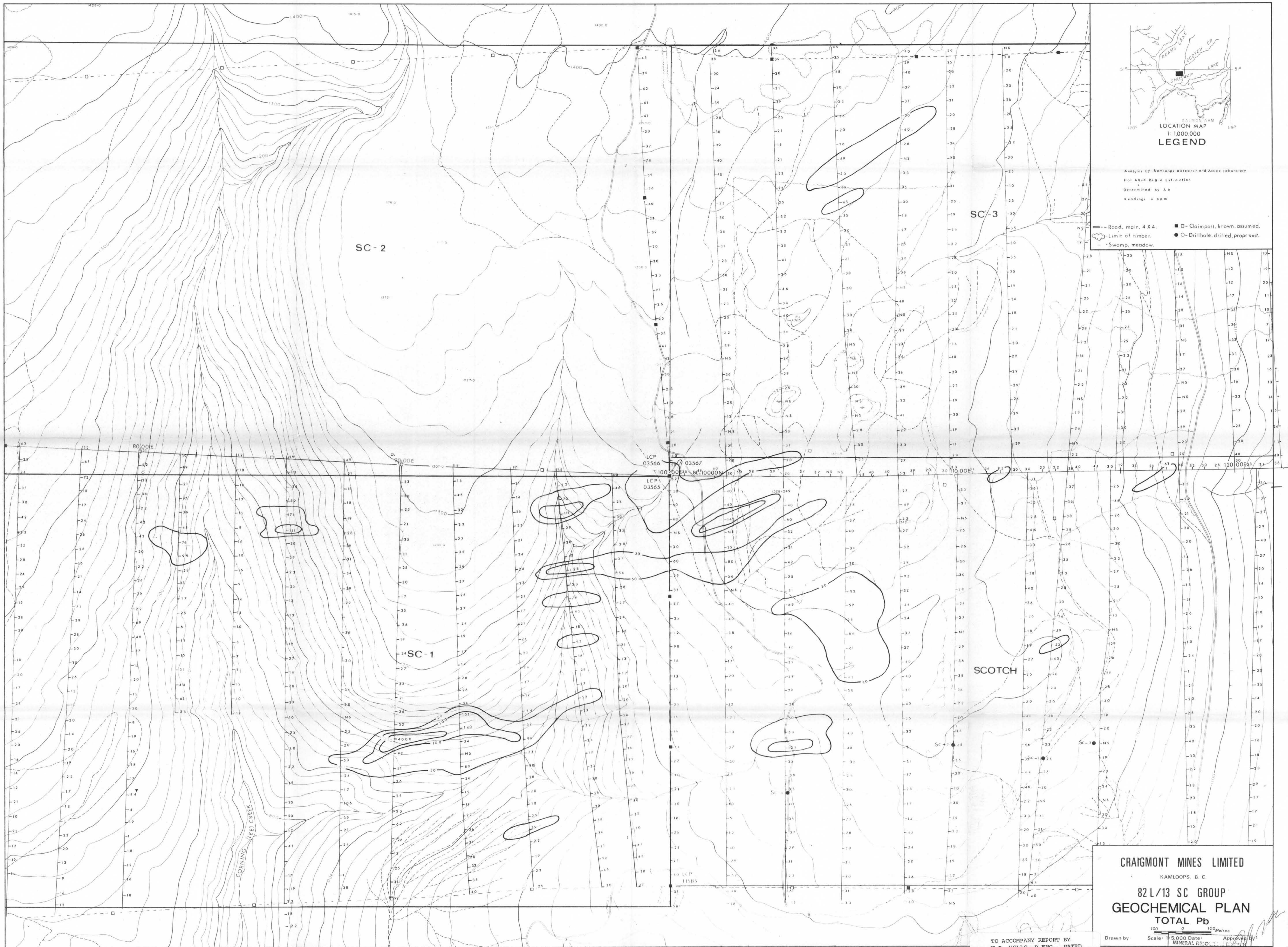
— Road, main, 4 X 4.      ■ - Claimpost, known, assumed.  
 --- Limit of timber.      ● - Drillhole, drilled, proposed.  
 - Swamp meadow.

**CRAIGMONT MINES LIMITED**  
 KAMLOOPS, B. C.  
**82L/13 SC GROUP**  
**GEOCHEMICAL PLAN**  
**TOTAL Cu**

Drawn by: J.F.B. Scale: 1:5,000 Date: 22/9/77 Approved by: \_\_\_\_\_

TO ACCOMPANY REPORT BY N.B.  
 VOLLO, P. ENG., DATED SEPT.  
 27th, 1977

MINERAL RESEARCH  
 NO. **6419**



Analysis by Kamloops Research and Assay Laboratory  
Hot Ashes Residue Extraction  
Determined by A.A.  
Readings in ppm

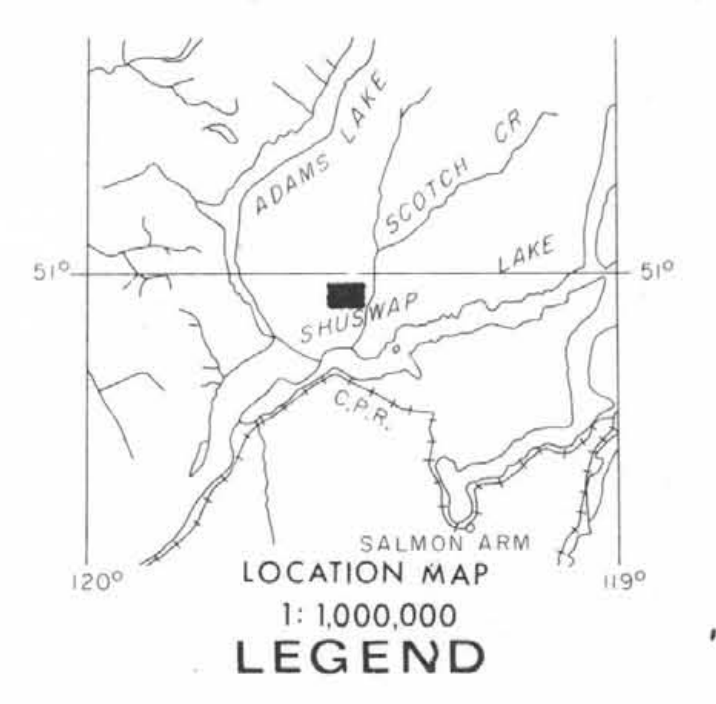
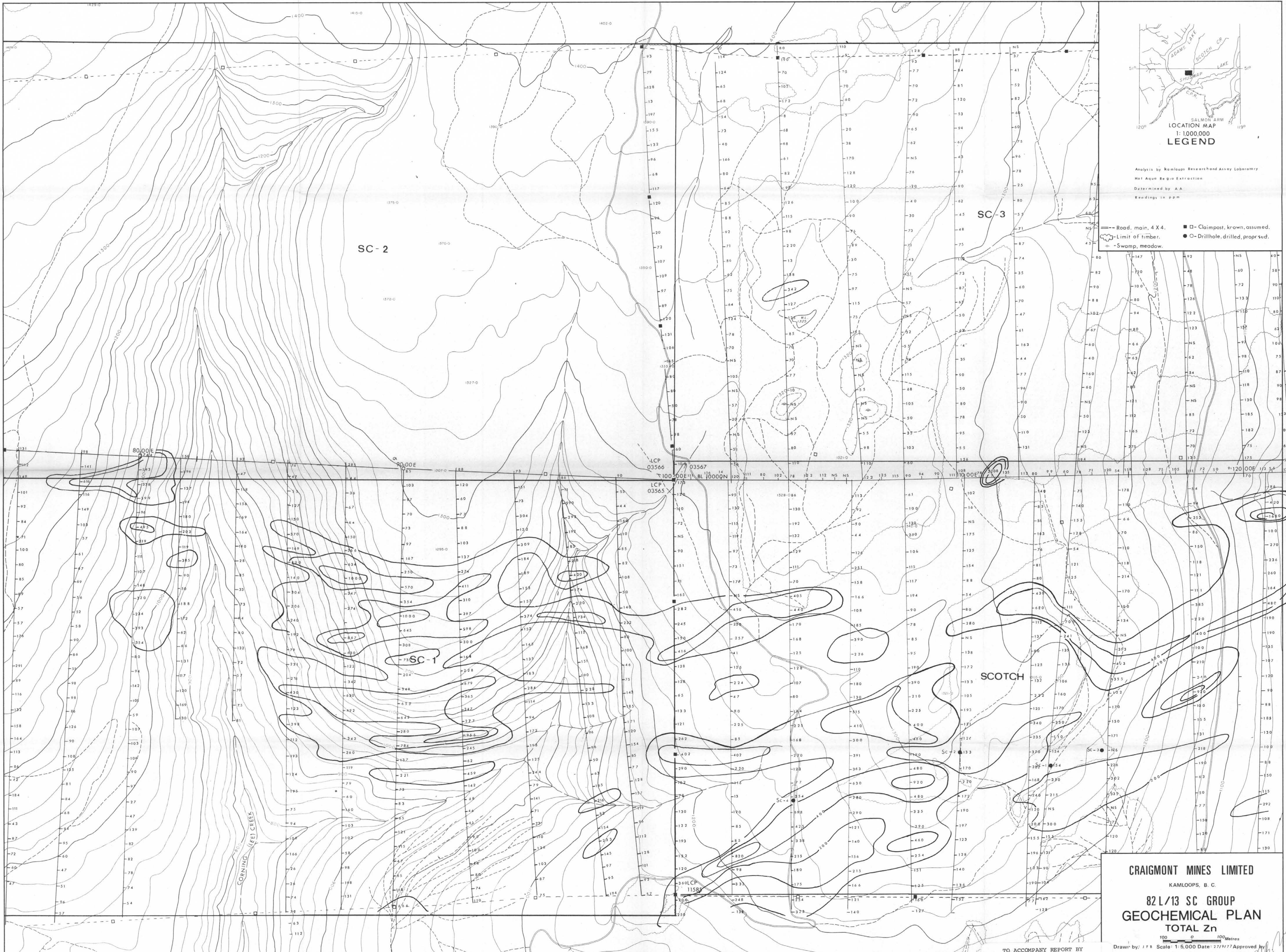
- Road, main, 4 X 4.
- □ - Claimpost, known, assumed.
- - Drillhole, drilled, proposed.
- - - Limit of timber.
- - - Swamp, meadow.

**CRAIGMONT MINES LIMITED**  
KAMLOOPS, B. C.  
**82L/13 SC GROUP**  
**GEOCHEMICAL PLAN**  
**TOTAL Pb**

TO ACCOMPANY REPORT BY  
N. B. VOLLO, P. ENG., DATED  
SEPTEMBER 27th, 1977

Scale: 1:5,000 Date: MINERAL REPORT

NO. 6419 part 1



Analysis by Kamloops Research Assay Laboratory  
Hot Acid Regio Extraction  
Determined by A.A.  
Readings in ppm

- Road, main, 4 X 4.
- Claimpost, known, assumed.
- Limit of timber.
- Drillhole, drilled, proposed.
- Swamp, meadow.

**CRAIGMONT MINES LIMITED**  
KAMLOOPS, B. C.  
**82L/13 SC GROUP**  
**GEOCHEMICAL PLAN**  
**TOTAL Zn**

TO ACCOMPANY REPORT BY  
N.B. VOLLO, P. ENG., DATED  
SEPTEMBER 27th, 1977

Drawn by: J.F.B. Scale: 1:5,000 Date: 2/7/77 Approved by: [Signature]  
MINERAL RESOURCES BRANCH  
ASSESSMENT DIVISION  
NO. 6419 part 1