

GEOCHEMICAL REPORT

ON

THE 82M/4 MK GROUP

OF

CRAIGMONT MINES LIMITED

ON

THE ADAMS PLATEAU

BY

N.B. VOLLO, P.ENG.

SEPTEMBER 29/1977

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<u>Maps in Pocket</u>	
Geochemical Plan, Total Zn,	1:5000
" " " Pb,	1:5000
" " " Cu,	1:5000

SUMMARY

Approximately 60 km of grid and a soil geochemical survey for copper, lead and zinc was done on the MK's, Fox, A1 and A2 claims on the Adams Plateau. Numerous small anomalies were outlined which, particularly those for lead, correlate well with known massive sulphide zones.

GENERAL

The property is located on the Adams Plateau, approximately 15 km north of Shuswap Lake, between Scotch and Nikwikaia Creeks, about 70 km northeast of Kamloops. Access is via good logging roads. Elevations range from 1500 to 1750 metres above sea level. The area was heavily forested with Alpine Fir and Spruce but has been largely logged over, some of it clearcut.

CLAIMS

The property consists of 7 claims, all in the Kamloops M.D., as follows:

A1,	1 claim,	Record Number	128831
A2,	1 "	" "	12832
MK-1,	20 units,	" "	565(10)
MK-2,	10 "	" "	566(10)
MK-3,	12 "	" "	567(10)
MK-4,	4 "	" "	568(10)
FOX 1-4,	4 units,	Rec. No.	490(8)

HISTORY AND PREVIOUS WORK

The Mosquito King showing has a long history of previous work by Cominco, Plateau Metals, Giant Metallics and others, but records of most of this work are poor or unavailable. Most of the claims involved had lapsed and the property was staked by Craigmont in 1976.

GEOLOGY

The claims are underlain by the Eagle Bay formation as mapped to the south (Jones, A.G., GSC Mem. 296, 1959) or units 4a and 5 as mapped by Campbell (GSC Map 48-1963). The Eagle Bay formation, as mapped by the writer on the Adams Plateau, consists of a lower rhyolite ignimbrite member at least 2500 m thick; a mixed sequence of andesite flows, tuffs, avalanche breccias, siliceous tufas and sulphide deposits of fumarolic origin, and thinner ignimbrites, aggregating about 1500 m in thickness; a siliceous tufa zone containing bedded lead-zinc-silver deposits and minor limestone, totalling about 2000 m in thickness and finally andesites and light coloured

limestone (Tshinikin). The formation dips north at 20-40°

The MK claims are entirely within the thick siliceous tufa member, considered by the writer to be of fumarolic origin and probably deposited in a caldera or graben.

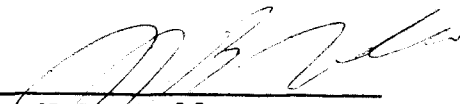
GEOCHEMICAL SURVEY

Soil samples were taken at 50 m intervals along lines averaging 200 m apart. A good podzol type soil profile is present and samples were taken from 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 lead, zinc and copper using aqua regia extraction and the atomic absorption method.

Zinc background is uneven at between 50 and 100 ppm and anomalous zones are shown contoured at 200, 400 and 800 ppm. Copper background is about 25 ppm and weak anomalous zones are shown contoured at 50 and 100 ppm. Lead background is similar but much stronger anomalous zones are present, shown contoured at 50, 100, 200 and 800 ppm.

CONCLUSIONS

The anomalies, particularly those for lead, correlate very well with known small massive sphalerite-galena-pyrrhotite bodies. Anomalies with no such obvious correlation should be tested by pits, trenches or drill holes.



N.B. Vollo, P.Eng.
Sept. 29th, 1977

AFFIDAVIT ON EXPENDITURES

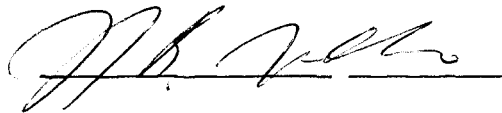
Personnel

N.B. Vollo, P.Eng., supervision, interpretation and report, 3 days at \$150 -----	\$ 450
L. Loranger, June 16-24, 4 days at \$90 -----	360
J. Smith, June 13-24, 7 days at \$70 -----	490
M. White, " " , 8 days at \$65 -----	520
M. Sartori, " " , 9 days at \$60 -----	540
E. Carlson, " " , 9 days at \$60 -----	540
J. Bristow, plotting, draughting, 3 days at \$110 -----	330
subtotal	\$3230

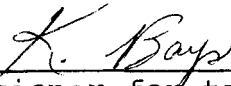
Geochemical Analysis, Kamloops Research & Assay Laboratories Ltd., KAMLOOPS, B.C. -----	\$1865
Topographic Map, Pacific Survey Corporation, 1409 West Pender St., VANCOUVER, B.C. -----	1170
Camp expenses, flagging, supplies -----	697
Vehicle expense, 800 miles at 20¢ -----	160

Total -----\$7122

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 30th day of September, 1977, A.D.



 Commissioner for taking Affidavits
 within British Columbia
 A commissioner for taking affidavits: for British Columbia



30'

15'

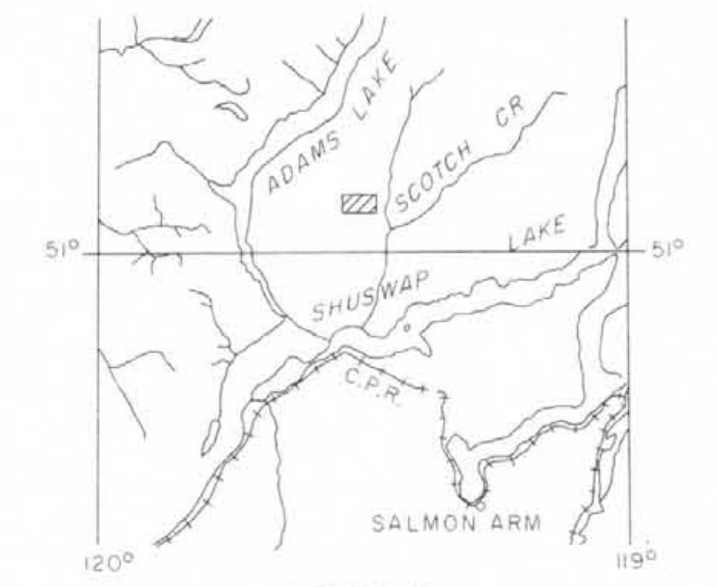
11'

CRAIGMONT MINES LIMITED

LOCATION MAP

82M/4 MK GROUPS

1:250,000



LEGEND

Analysis by Kamloops Research & Assay Laboratory
 Hot Aque Regio Extraction
 Determined by AA
 Readings in ppm

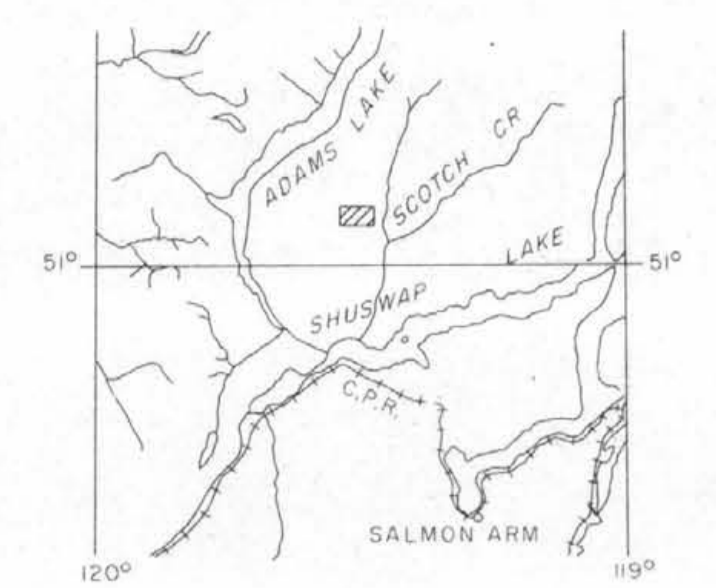
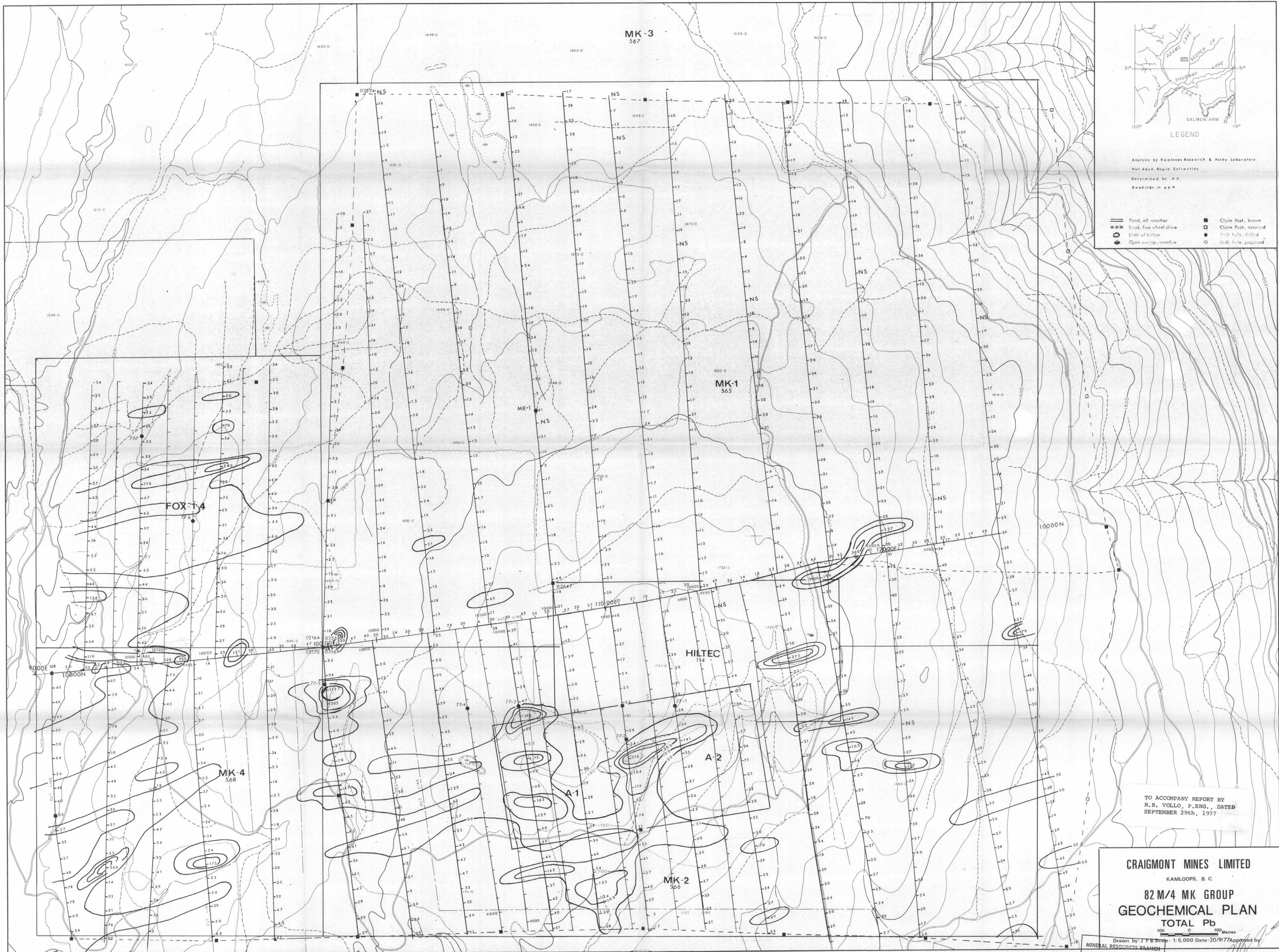
- Pond, off weather
- 1/2 foot drill hole
- 1 foot drill hole
- 2 foot drill hole
- 4 foot drill hole
- 6 foot drill hole
- 8 foot drill hole
- 10 foot drill hole
- 12 foot drill hole
- 14 foot drill hole
- 16 foot drill hole
- 18 foot drill hole
- 20 foot drill hole
- 22 foot drill hole
- 24 foot drill hole
- 26 foot drill hole
- 28 foot drill hole
- 30 foot drill hole
- 32 foot drill hole
- 34 foot drill hole
- 36 foot drill hole
- 38 foot drill hole
- 40 foot drill hole
- 42 foot drill hole
- 44 foot drill hole
- 46 foot drill hole
- 48 foot drill hole
- 50 foot drill hole
- 52 foot drill hole
- 54 foot drill hole
- 56 foot drill hole
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- 60 foot drill hole
- 62 foot drill hole
- 64 foot drill hole
- 66 foot drill hole
- 68 foot drill hole
- 70 foot drill hole
- 72 foot drill hole
- 74 foot drill hole
- 76 foot drill hole
- 78 foot drill hole
- 80 foot drill hole
- 82 foot drill hole
- 84 foot drill hole
- 86 foot drill hole
- 88 foot drill hole
- 90 foot drill hole
- 92 foot drill hole
- 94 foot drill hole
- 96 foot drill hole
- 98 foot drill hole
- 100 foot drill hole

TO ACCOMPANY REPORT BY
 N.B. VOLLO, P. ENG., DATED
 SEPTEMBER 29th, 1977

CRAIGMONT MINES LIMITED
 KAMLOOPS, B. C.

82M/4 MK GROUP
GEOCHEMICAL PLAN
TOTAL Zn

Scale: 1" = 5,000' (1:161,300)
 Drawn by J. F. B. Scale: 1" = 5,000' Date: 21/9/77 Approved by



LEGEND

Analysis by Kamloops Research & Assay Laboratory
 Hot Aqua Regia Extraction
 Determined by A.A.
 Readings in ppm

—	Road, all weather	■	Claim Post, known
---	Trail, four wheel drive	□	Claim Post, assumed
⊙	Line of timber	●	Drill hole, drilled
⊕	Open swamp, meadow	○	Drill hole, proposed

TO ACCOMPANY REPORT BY
 N.B. VOLLO, P. ENG., DATED
 SEPTEMBER 29th, 1977

CRAIGMONT MINES LIMITED
 KAMLOOPS, B. C.
82 M/4 MK GROUP
GEOCHEMICAL PLAN
TOTAL Pb

Drawn by J.F.B. Scale: 1:5,000 Date: 20/9/77 Approved by
 MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. 6420



Analysis by Kamloops Research & Assay Laboratory
 Wet Aqua Regia Extraction
 Determined by A.A.
 Readings in ppm

- ▬ Road, all weather
- ▬ Road, four wheel drive
- ▬ Limit of timber
- Open swamp, meadow
- Claim Post, known
- Claim Post, assumed
- Bull hole, drilled
- Bull hole, proposed

TO ACCOMPANY REPORT BY N.B. VOLLO, P. ENG., DATED SEPT. 29th, 1977

CRAIGMONT MINES LIMITED
 KAMLOOPS, B. C.
82 M/4 MK GROUP
GEOCHEMICAL PLAN
TOTAL Cu

Scale: 1:5,000 Date: 19/9/77
 Drawn by: J.F.S. Approved by: [Signature]

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 No. 6420