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CRAIGMONT MINES LIMITED

Report on Geological, Geophysical and
Geochemical Surveys on the Rainy Nos.
1 to 32 mineral claims located approx-
imately seventeen miles north-easterly
from Hope, B.C. N.49° x W.121°.

By: R.J. Young, P. Eng.

Claim Holder: Craigmont Mines Limited

Work Done: 31 July, 1967 to 30 Sept. 1967

1560

1560

CRAIGMONT MINES LIMITED

REPORT ON

Geological, Geophysical and Geochemical Surveys

on the

Rainy Group of Thirty-two Mineral Claims.

Located 17 Miles N.E. x E from Hope, B.C.

N.49° W.121°

31 July, 1967 to 30 September, 1967

Table of Contents

Page

Claims

1

Expenditures

2

Text

Introduction

3

Access and Description of Property

3

Description of Work Done and the Results Thereof

4

Grid

4

Geological Mapping

4

Magnetics

5

Geochemistry

6

List of Illustrations (In Pocket)

Location Map # 1

Grid # 5

Outcrop Geology # 3

Contoured Magnetics # 4

Geochemistry: Zinc # 2

Geochemistry: Copper # 6

Claims

The Rainy group of thirty-two mineral claims is located approximately seventeen miles north easterly from the town of Hope, B.C. They cover a portion of the headwaters and the divide areas between, Cedarflat Creek, Carry Creek, Railroad Creek, and Sutter Creek. The group straddles the boundary between the New Westminster and Similkamean Mining Divisions.

The individual claims and record numbers are as follows:-

<u>Claims</u>	<u>Record Number</u>
Rainy No. 1	15875
Rainy No. 2	15876
Rainy No. 3	15877
Rainy No. 4	15878
Rainy No. 5	15879
Rainy No. 6	15880
Rainy No. 7	15881
Rainy No. 8	15882
Rainy No. 9	15883
Rainy No. 10	15884
Rainy No. 11	15885
Rainy No. 12	15886
Rainy No. 13	19617
Rainy No. 14	19618
Rainy No. 15	19619
Rainy No. 16	19620
Rainy No. 17	19621
Rainy No. 18	19622
Rainy No. 19	19623
Rainy No. 20	19624
Rainy No. 21	20899
Rainy No. 22	20900
Rainy No. 23	20901
Rainy No. 24	20902
Rainy No. 25	20903
Rainy No. 26	20904
Rainy No. 27	20905
Rainy No. 28	20906
Rainy No. 29	20907
Rainy No. 30	20908
Rainy No. 31	20909
Rainy No. 32	20910

Please refer to the 1 inch to $\frac{1}{2}$ mile location map.

EXPENDITURES

The following are the direct costs of surface exploration on the Rainy group of mineral claims for the months of August and September, 1967.

These include the costs of labour for the field work and compilation of data plus supporting costs such as living expenses and supervision.

Men Employed during August and September, 1967.

G.E. Hickling	2 months @ 435.00 per month	\$ 870.00	
A. Fukushima	2 months @ 435.00 per month	870.00	
G. Hedges	almost 5 weeks @ 435.00 per month	514.45	
R. Thompson	almost 5 weeks @ 435.00 per month	514.45	
		<u>\$ 2,768.90</u>	\$ 2,768.90

Living and Travel Expense

The crew stayed at the Slumber Lodge Motel in Hope. A portion of the meals was also charged there. Bill for August and September:-

Cas for vehicle plus additional meals

\$ 1,027.85

198.15

\$ 1,226.00

\$ 1,226.00

Vehicle

1 Land Rover for 2 months @ \$250 per month

\$ 500.00

Supervision and Mapping

R. Young, P.Eng., 2 weeks @ \$800 per month

\$ 400.00

Drafting and Compilation of Data

R. Young, P. Eng., 2 weeks @ \$800 per month

\$ 400.00

Analyses of samples by Canex Aerial Exploration Limited

255 samples @ \$1.50 per sample

\$ 382.50

Total

\$ 5,677.40

CRAIGMONT MINES LIMITED

Geological, Geophysical and Geochemical Surveys
on the

Rainy Group of Mineral Claims.

Done between 31 July, 1967 and 31 September, 1967.

Introduction

Craigmont Mines Limited optioned the "Rainy" claim group from the late Lyle Saunders in the spring of 1967. The original group consisted of twelve claims, the Rainy Nos. 1 to 12. Subsequently Craigmont Mines Limited staked an additional twenty claims, also called Rainy and numbered from 13 to 32.

Surface exploration work was carried out during August and September, 1967. A grid was established on the known showings and Geological mapping plus magnetic and geochemical surveys were carried out over the grid area.

Access and Description of Property

Access is by gravel road from Hope, B.C. up the Coquihalla to Dewdney Creek, up Dewdney Creek to Cedarflat Creek then up Cedarflat Creek to the end of the road. Most of the road is privately owned by Pretty's Limited, a logging firm.

From the end of the road one must walk to the showings which are located along and near the small creek coming down from the pass leading directly over to East Pass Lake and the headwaters of the east fork of Sutter Creek.

Driving distance is twenty-six miles. The walk from the end of the road to the showings takes approximately thirty-five minutes.

The claim group itself consists of thirty-two claims which are situated as shown on the accompanying location map. The group, covers the headwaters of Cedarflat Creek, Carry Creek, Railroad Creek and the east fork of Sutter Creek plus the divide area, between the creeks.

Thus the claim group straddles the boundary between the New Westminster and Similkameen Mining Divisions.

The topography is quite rugged with steep sidehills, rock bluffs, rock ridges and basins of various sizes. Relief is about 2,000 feet on the claim group with the highest points reaching just over 6,000 feet in elevation.

Cover is mostly forest consisting of small Hemlock, Balsam and Spruce trees. The underbrush which consists of buckbrush, Blueberry bush and other shrubs is quite thick in places.

Numerous small streams rush down the steep slopes. As the snowpack is not gone till well into July there is water in these for most of the summer and fall.

Description Of Work Done And The Results Thereof

Grid

Please refer to the grid plan.

A grid measuring 2,000 by 2,400 feet was cut out as a preliminary step to the magnetic and geochemical surveys.

The base line was laid out in a magnetic north-south direction because this direction is close to the strike of the mineralized shears at the known showings.

Stations were set at 100 foot intervals, horizontal distance, along the baseline from 9,000E to 11,400E. Station 10,500E on the baseline coincides with the claim posts at the intersection of Rainys 1,2,3 and 4. (Initial post for all four claims).

Lines were cut at 200 foot intervals along the baseline from 9,000N to 11,400N. Stations were established at 100 foot intervals (horizontal distance) along these lines from 9,000E to 11,000E.

Geological Mapping

Please refer to the outcrop geology plan.

Geological mapping was done over the grid area using the grid as control. The position of outcrops falling between cut lines was estimated using pace and compass.

The outcrop geology shows that the south half of the grid area is underlain by conglomerate and the north half largely by arkose. Some conglomerate is also present in the north half.

A limited amount of argillaceous rock traverses the grid, passing by the baseline near the center of the grid.

The conglomerate in the south half is characterized by well rounded cobbles and boulders (to greater than 1 foot in diameter) of granitic rocks, particularly diorite and quartz diorite. The conglomerate in the north half is noted for its well rounded cobbles of grey (light and dark) cherty looking quartzite. The cobbles are also, on the average, much smaller than those of the "granitic" conglomerates.

The arkoses are grey in color, fine to medium grained and show very little bedding.

The argillites are variably grey, thin bedded rocks.

In the northern half of the grid area along the eastern edge are a number of small discrete plugs of medium grained diorite.

The general strike of the sediments underlying the grid area is 210° to 220° . Dips range from 45° S to vertical.

The sediments belong to the Paysayten group of Lower Cretaceous age. The diorite is post Lower Cretaceous and of uncertain age.

The "metallic" mineralization consists of sphalerite, pyrrhotite, pyrite and chalcopyrite. The sphalerite and pyrrhotite are present along shears and small fractures in the host rocks, generally in small amounts. Chalcopyrite accompanies the sphalerite and pyrrhotite but is present in only trace amounts.

The pyrite is ubiquitous. It is present in varying amounts in most of the sediments as well as accompanying the sphalerite and pyrrhotite mineralization in the shears. Occasionally it will be as much as 1% to 2% of the rock. In one of the diorite plugs at least 2% of the rock is disseminated pyrite.

Magnetics

Please refer to the plan of the magnetics.

A magnetic survey using Jalander Fluxgate (No.57143) magnetometer was conducted over the grid. Basically, readings were taken at

50 foot intervals along the lines. The positions of stations between the 100 foot chainage intervals along the lines were estimated. Where closer station spacing (ie. 25 feet) was required the position of these was also estimated. The detailing of "anomalous" areas laterally was controlled partly by estimation and partly by chaining.

The magnetic survey showed that the main trend of the magnetics ranges from 025° to 050° . This is directly across the strike of the rocks underlying the grid. These magnetic trends are controlled by the direction of shears hosting pyrrhotite mineralization.

"Anomalies" are due to (i) pyrrhotite mineralization and (ii) disseminated magnetite in the diorite plugs. Two anomalies due to (i) and one due to (ii) are known.

Geochemistry

Please refer to plans: (i) Geochemistry: Zinc and (ii) Geochemistry: Copper.

Geochemical samples were collected at each 100 foot station, where possible, along the grid lines.

All samples were taken from about three inches into the BF₂ soil horizon. Over the grid the sample depth ranged from about six inches to better than two feet.

Samples were picked up using nylon spoons after the holes were dug with pick and shovel. They were placed in waterproof brown kraft envelopes that are commercially manufactured for this purpose.

The samples were sent to the geochemical laboratory of Canex Aerial Exploration Limited, in Vancouver, for analysis.

Preparation and analysis of the samples was done under the supervision of Mr. R. Cribbs Chief Geochemist for Canex Aerial Exploration Limited.

All samples were dried by suspending the sample envelopes in a stream of ultra air.

They were screened by conventional screens, designed for this purpose, and the minus 80 mesh portion taken for analysis.

Actual analyses were done by the hot acid extraction method. Zn and Cu were the only metals tested for.

A broad band of Zn highs runs across the grid as shown on the plan. The trends are more or less parallel to the magnetic trends. Again, the probable control is shearing in the rocks.

In this band a good portion is 500 parts per million and higher in Zn. Highs run to better than 3,000 parts per million.

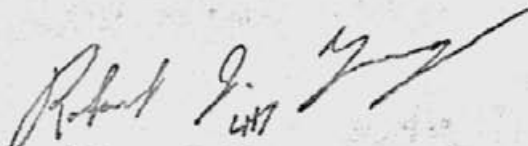
Actual values are distributed as shown on the plan.

None of the samples run very high in Cu. The highest Cu sample went only 195 parts per million Cu.

In general, the higher copper values coincided with high Zn values.

Again the values are distributed as shown on the plan.

Respectfully submitted,



Robert J. Young, P. Eng.
Exploration Geologist:
Craigmont Mines Limited.

RJY/sw





To accompany geological
 geophysical and geochemical
 report by Robert J. Young, P. Eng
 on the Rainy Group, on the head-
 waters of Cedar Flat, Sutter,
 Carry and Railroad Creeks,
 New Westminster and Similk-
 ameen Mining Divisions, date

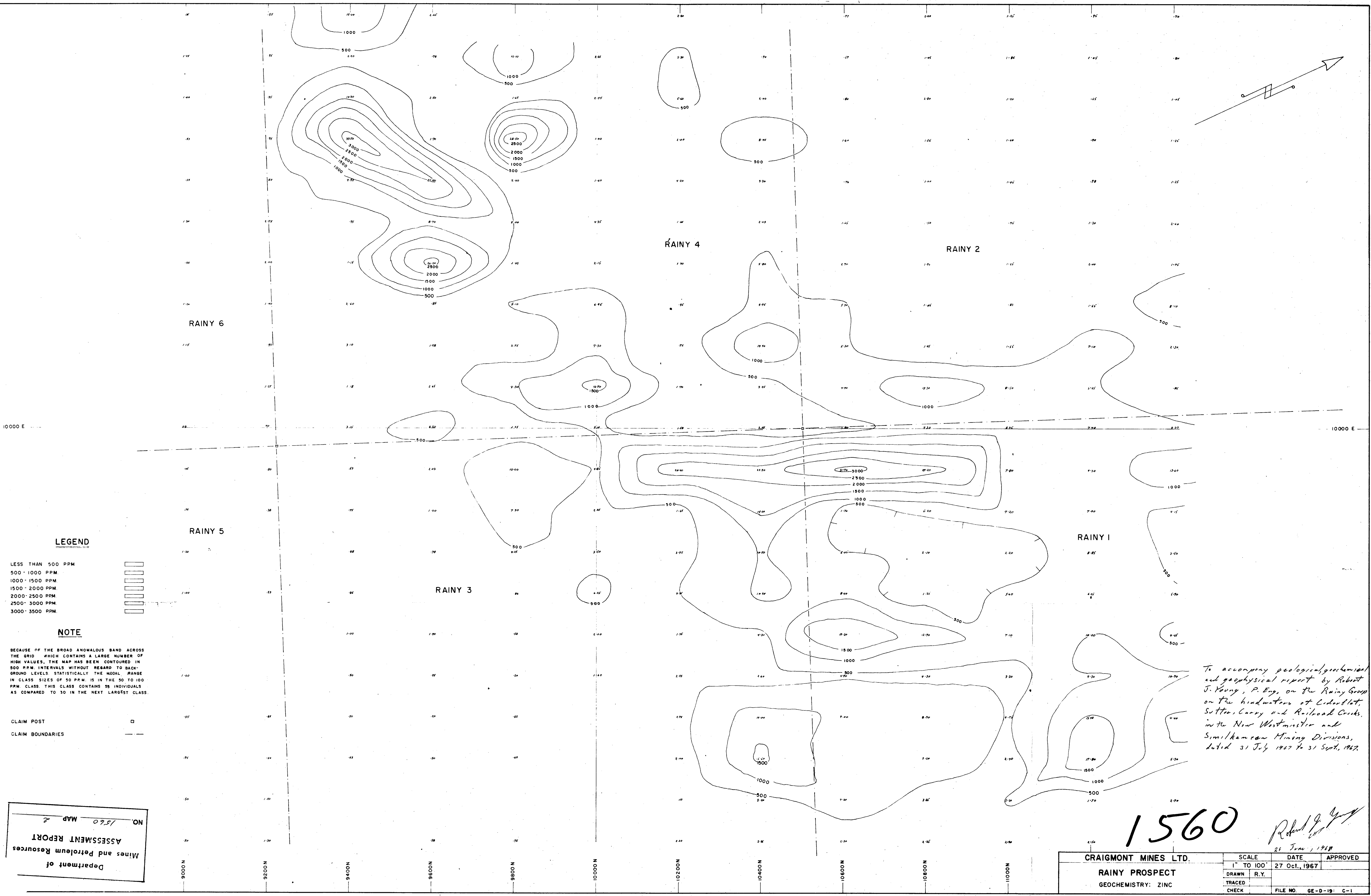
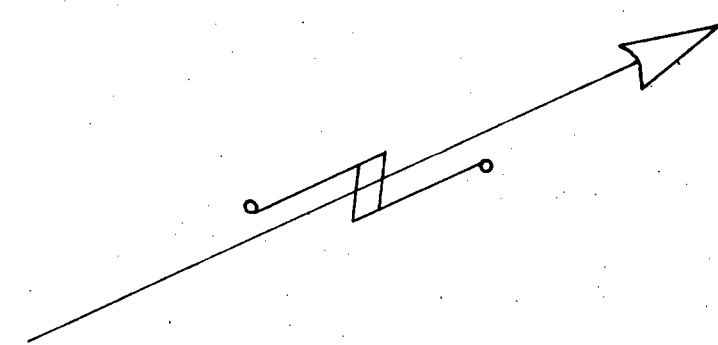
31 July, 1967 to 31 Sept
 1967

LOCATION MAP
 RAINY MINERAL CLAIMS
 NUMBERS 1 TO 32
 1" TO 1/2 MI
 FILE NO. GE-A-21

Robert J. Young
 R. J. YOUNG
 20 June 1968

N.W.M.D.
 SIMILKIMEEN M.D.

1560



RAINY 6

RAINY 4

RAINY 2

RAINY 5

RAINY 3

RAINY 1

LEGEND

- LESS THAN 500 PPM
- 500 - 1000 PPM
- 1000 - 1500 PPM
- 1500 - 2000 PPM
- 2000 - 2500 PPM
- 2500 - 3000 PPM
- 3000 - 3500 PPM

NOTE

BECAUSE OF THE BROAD ANOMALOUS BAND ACROSS THE GRID WHICH CONTAINS A LARGE NUMBER OF HIGH VALUES, THE MAP HAS BEEN CONTOURED IN 500 PPM INTERVALS WITHOUT REGARD TO BACKGROUND LEVELS STATISTICALLY THE MODAL RANGE IN CLASS SIZES OF 50 PPM IS IN THE 50 TO 100 PPM CLASS. THIS CLASS CONTAINS 55 INDIVIDUALS AS COMPARED TO 30 IN THE NEXT LARGEST CLASS

- CLAIM POST
- CLAIM BOUNDARIES

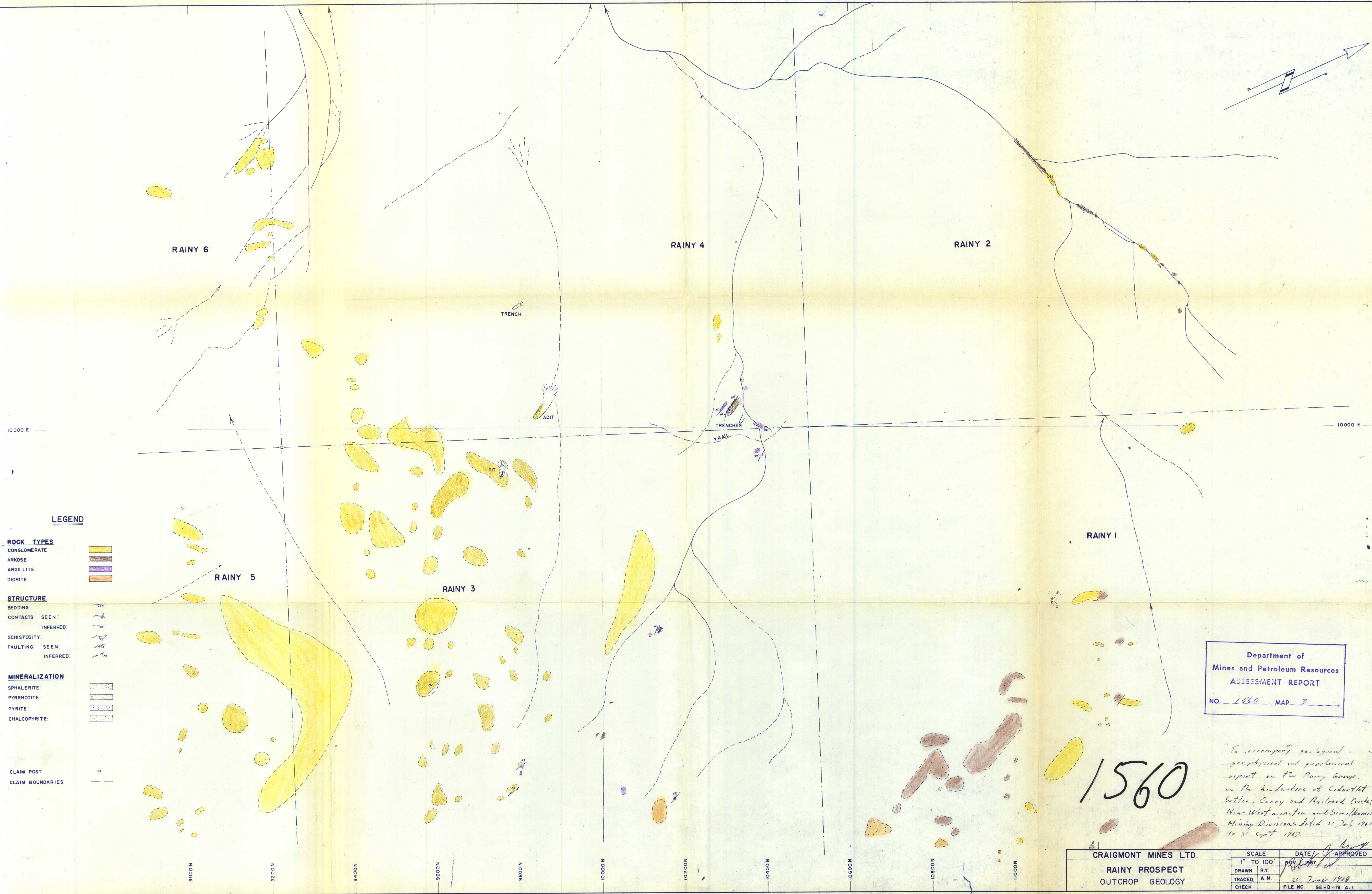
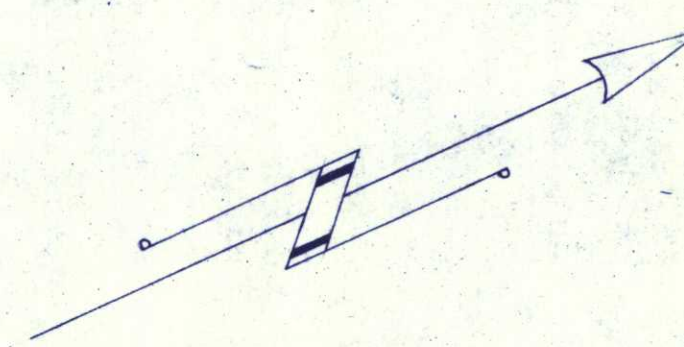
To accompany geological/geochemical and geophysical report by Robert J. Young, P. Eng. on the Rainy Group on the headwaters at Cedarlot, Sutton, Carry and Railroad Creeks, in the New Westminster and Similkameen Mining Divisions, dated 31 July 1967 to 31 Sept. 1967.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1560
MAP 2

1560

Robert J. Young
26 June 1968

CRAIGMONT MINES LTD.		SCALE	DATE	APPROVED
		1" TO 100'	27 Oct. 1967	
RAINY PROSPECT		DRAWN	R.Y.	
GEOCHEMISTRY: ZINC		TRACED		
		CHECK		FILE NO. GE-D-19: C-1



LEGEND

- ROCK TYPES**
- CONGLOMERATE
 - ARKOSE
 - ARGILLITE
 - DIORITE
- STRUCTURE**
- BEDDING
 - CONTACTS SEEN
 - CONTACTS INFERRED
 - SCHISTOSITY
 - FAULTING SEEN
 - FAULTING INFERRED
- MINERALIZATION**
- SPHALERITE
 - PYRRHOTITE
 - PYRITE
 - CHALCOPYRITE

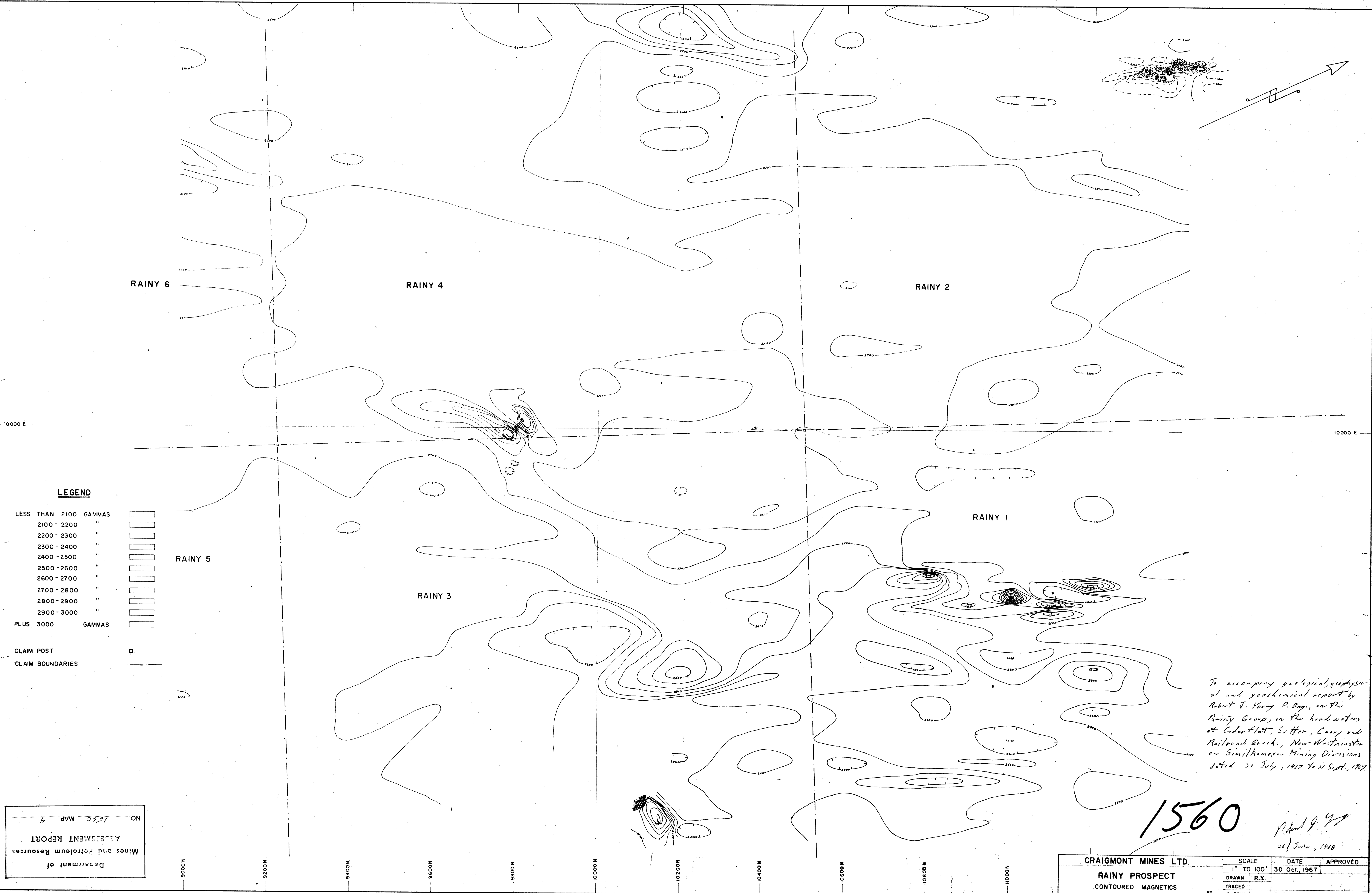
CLAIM POST
CLAIM BOUNDARIES

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1560 MAP 3

1560

To accompany geological, geophysical and geochemical report on the Rainy Group, on the headwaters of Cedarhot Suttle, Curry and Railroad Creeks, New Westminster and Similkameen Mining Divisions dated 31 July 1967 to 31 Sept 1967.

CRAIGMONT MINES LTD.		SCALE	DATE	APPROVED
RAINY PROSPECT		1" TO 100'	NOV. 1967	<i>[Signature]</i>
OUTCROP GEOLOGY		DRAWN R.Y.	TRACED A.M.	26 June 1968
		CHECK	FILE NO.	GE-D-19 A-1



LEGEND

- LESS THAN 2100 GAMMAS
 - 2100 - 2200 "
 - 2200 - 2300 "
 - 2300 - 2400 "
 - 2400 - 2500 "
 - 2500 - 2600 "
 - 2600 - 2700 "
 - 2700 - 2800 "
 - 2800 - 2900 "
 - 2900 - 3000 "
 - PLUS 3000 GAMMAS
- CLAIM POST □
- CLAIM BOUNDARIES ———

To accompany geological, geophysical and geochemical report by Robert J. Young P. Eng., on the Rainy Group, on the headwaters of Cedar Flat, Sitter, Conny and Railroad Creeks, New Westminster on Similkameen Mining Divisions dated 31 July, 1967 to 31 Sept., 1967

1560

Robert J. Young
21 June, 1968

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1860 MAP 4

CRAIGMONT MINES LTD.		SCALE	DATE	APPROVED
RAINY PROSPECT		1" TO 100'	30 Oct, 1967	
CONTOURED MAGNETICS		DRAWN	R.Y.	
		TRACED		
		CHECK		
		FILE NO.	GE-0-19-	8-2

RAINY 6

RAINY 4

RAINY 2

10000 E

BASE LINE

CLAIM POSTS

10000 E

CLAIM POSTS

RAINY 5

RAINY 3

RAINY 1

To accompany geologic, geophysical and geotechnical reports by Robert J. Young B. Eng., on the Rainy Group, on the headwaters of Cedarflat, Sutter, Curry and Railroad Creeks, New Westminster and Similkameen Mining Divisions dated 31 July to 31 Sept, 1967

1560

Robert J. Young

26 June, 1968

11,000 E

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
MAP 5
NO 1560

CRAIGMONT MINES LTD.
RAINY PROSPECT
GRID
SCALE 1" TO 100'
DATE
APPROVED
DRAWN
TRACED
CHECK
FILE NO. GE-D-19

9000 N

9200 N

9400 N

9600 N

9800 N

10000 N

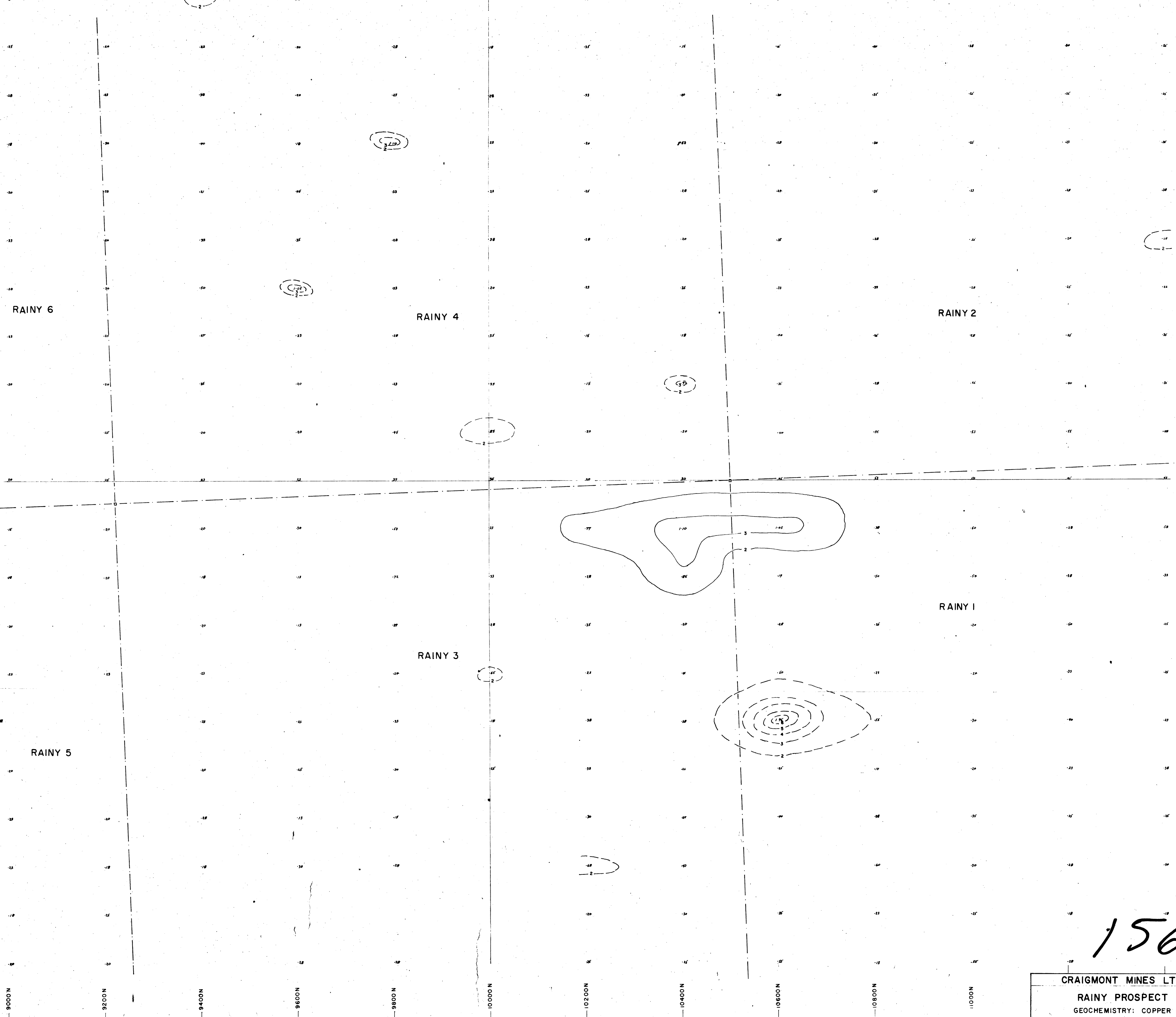
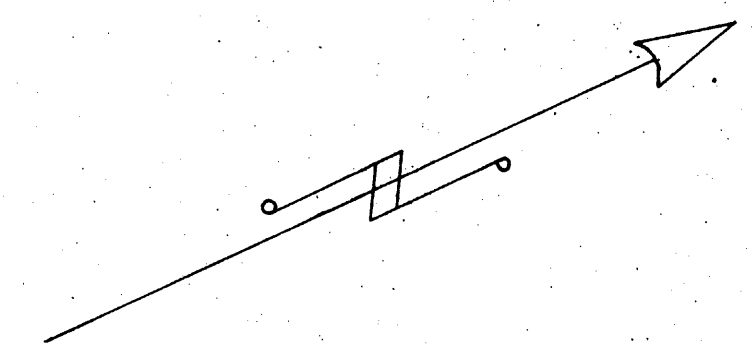
10200 N

10400 N

10600 N

10800 N

11000 N



RAINY 6

RAINY 4

RAINY 2

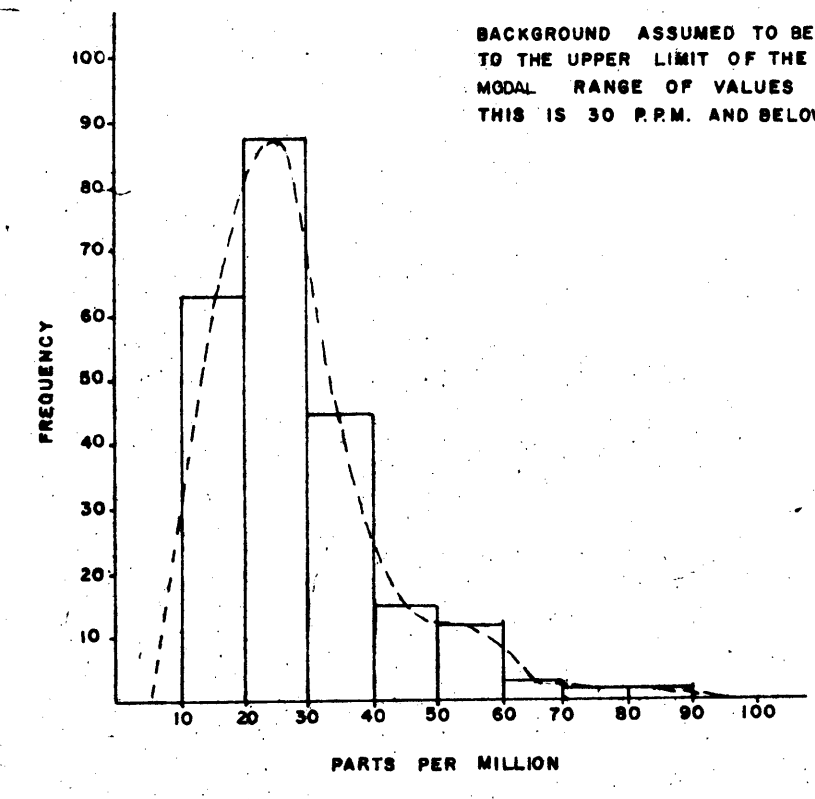
10000 E

10000 E

LEGEND

- BACKGROUND TO 2 TIMES BACKGROUND
- 2 TO 3 TIMES BACKGROUND
- PLUS 3 TIMES BACKGROUND
- CONTOURS AROUND ONE POINT HIGHS

DETERMINATION OF BACKGROUND VALUES



RAINY 5

RAINY 3

RAINY 1

CLAIM POST

CLAIM BOUNDARIES

To accompany geological, geophysical and geochemical report by Robert J. Young, P. Eng., on the Rainy Group, on the headwaters of Cedar & lat, Sutton, Carry and Railroad Creeks in the New Westminster and Similkameen Mining Divisions dated 31 July, 1967 to 31 Sept., 1967.

1560

26 June, 1968

CRAIGMONT MINES LTD.	SCALE	DATE	APPROVED
	1" TO 100'	27 Oct, 1967	
RAINY PROSPECT GEOCHEMISTRY: COPPER	DRAWN	R.Y.	
	TRACED		
	CHECK	FILE NO.	GE-D-19: C-2