JOE MARKEVITCH

ASSESSMENT REPORT

GEOLOGICAL-GEOCHEMICAL-GEOPHYSICAL

SURVEYS OF THE

CMS MINERAL CLAIM GROUP

SIMILKAMEEN MINING DIVISION

CAMP CREEK - GLEN LAKE AREA

BRITISH COLUMBIA

Latitude: 49° 40' North Longitude: 120° 00' West 92H/9E,16E 82E/12W,13W

Geological Survey:	William J. Weymark P. Eng.
GeoChemical Survey:	William Chang M. Sc. William J. Weymark P. Eng.
Geophysical Surveys:	William Chang MSc. Geophysics McGill William J. Weymark P. Eng.
Analyses:	Chemex Labs Ltd, North Vancouver, B. C.

20 September 1980

ASSESSMENT REPORT

CMS MINERAL CLAIM GROUP

SIMILKAMEEN MINING DIVISION

CAMP CREEK - GLEN LAKE AREA

BRITISH COLUMBIA

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LOCATION

CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION
BRITISH COLUMBIA

WEYMARK ENGINEERING LTD.
Consulting Engineers
3310 WESTMOUNT ROAD
WEST VANCOUVER, B.C.
CANADA

TELEPHONE
922-1536

20 September 1980

Joe Maskevitch
13389 Crestview Ave
Surrey B. C.

Gentlemen:

Re: Assessment Report
Geological - Geochemical - Geophysical
Surveys: CMS 1 - 12 Mineral Claims
Similkameen Mining Division
British Columbia

We are pleased to submit for your information, this Assessment Report relating to the Geological-Geochemical-Geophysical Surveys undertaken on the CMS 1 - 12, Mineral Claims Group, completed during the field season May - August 1980.

Geological mapping in the field and correlation in the office was by William J. Weymark P. Eng.. Geochemical and Geophysical survey-work was by Wm. Chang, M. Sc. Geophysics, McGill University. Geochemical analyses were by Chemex Labs. Ltd, North Vancouver, British Columbia.

Background technical information relating to the Claims area involves the following:

B. C. Minister of Mines Reports:- 1968 p 217;
1977 E129
Geological Survey of Canada; Memoir 243 by
H.M.A. Rice, Map No: 888A

1.0 Property:

The claims covered by the Surveys of this Report involve the following:

CMS - 1 1-12, Record No: 1050, 17 June 1980

CMS Units 1-12, Record No: 922(1) 10 January 1980

The reference Claim Map is M92H/9E, B. C. Minister of Mines and the Geographical Reference is 120° - 49° 45' and the Land Status Map is Tulameen 92H NE.

2.0 Access and Location:

Access to the claims is easy by automobile Via paved - gravel road from either Princeton or Peachland. They are 28 Miles from Princeton and 12 from Peachland . See Figs: 3 and 4. Restricted access occurs only during fire-peril or snowfall periods.

3.0 Climate:

Climatic conditions are Southern-Interior with Hot Summers and Cold Winters. Precipitation is light during the summer months amounting to 10 - 15 inches per year. Exploration work could be carried out year-round except during fire-peril and snowfall periods.

4.0 Physiography: The claims area is rugged within the Camp Creek, a tributary of Tourt Creek, valley and moderately rolling bench land within the western claims section. Elevations range from 3500 to 4900 feet above sea-level. See Figure: 3. The area is mostly tree-covered with coniferous and deciduous trees. Logging is presently being carried out with extensive cuts. Rock outcrops occur mostly in the creek and stream courses. Most of the area is deep covered with glacial silts and tills and gravels. There is ample water on the claims within the Camp Creek drainage area and Glen Lake for exploration work. Permits are required for the use of water and timber for mining purposes..

5.0 Geology: Geological References are Map 888A, Memoir 243 Geological Survey of Canada by H.M. A. Rice and B. C. Minister of Mines Report 1967, Page 183 - 210; The Geology of the Brenda Lake Area, by J. M. Carr. The general geology of the area is shown on Fig: 5; being categorized as Mesozoic intrusives, medium to coarse grained granite and granodiorite with later intrusives of Cretaceous - Tertiary pink and grey granite.

Figure: 6 portrays the outcrop map of outcrops. As noted thereon, most of the area is covered with deep overburden with outcrops occurring along Camp Creek road and in trenches. The main rock type is medium to coarse grained light grey granodiorite. This is intruded by an altered feldspar with a width varying to 250 feet and striking N 55° West. Smaller related dyklets occur, but the extent of these cannot be traced.

The main porphyry dyke is highly altered and weathered on surface with rusty iron stain. It is medium grained with quartz phenocrysts and with local aggregations of quartz veinlets. Other minerals include sericite and hornfels. These occur in varying amounts.

Mineralization consists of pyrite and various types of molybdenum, molybdenite and ferrimolybdenite. The molybdenum mineralization occurs throughout the altered porphyry along fracture and quartz planes and in association with sericite flakes. Some chalcopyrite and secondary copper mineral stains occur throughout the porphyry mass.

The geological formations as presently interpreted, on the claims property are favourable for the occurrence of molybdenum bearing mineralization, being similar to those at Brenda and other commercial occurrences in the Cordillera.

6.0 Geochemical Survey:

As part of the initial phase of the investigation of the metalliferous possibilities of the CMS Mineral Claims Group, a Geochemical testing of the soils for copper and molybdenum was carried out under the direction of Weymark Engineering Ltd. Soil samples of the B-Horizon of the soil profile, were taken on 200 foot intervals along the road network, see Figure: 7. The record of the samples and analyses are given in Annex-A. Chemical analyses were made by Cantest Ltd., using HC104 and atomic absorption. Plots of the results are given on Figure: 7 and Figure: 8.

Figure: 9 summarizes the mathematical characteristics of the sampling results for both Copper and Molybdenum.

Mathematical Summaries:

	Copper, PPM	Molybdenum, PPm
Average	16.44	4.46
Standard Deviation	11.86	17.32
Variance	140.7	300.0
Threshold	39	9.2

Figure: 9 depicts the areal pattern of metal abundance throughout the Cordillera and the Histogram of the average level of metal abundance background. As noted thereon, the background for Copper is 60 PPM and for molybdenum is 5PPM.

Results:

Figures 7 and 8 depict planemetric plots of the chemical analyses of the soil samples, respectively for Copper and Molybdenum. Anomalous values for Copper range from 39 to 104 ppm and for molybdenum 9.2 to 205 ppm. As shown on Figs: 7, 8 and 14, there is general coincidence of the anomalous zones for copper and molybdenum. These zones involve an area of some 750,000 square feet (1500 x 500'). The smaller parallel zones provide extension possibilities.

7.0 Geophysical Surveys:

Magnetometer and Electro-magnetic surveys were carried out using the referenced Grid System as used for the Geo-chemical and Geological Surveys.

The Magnetometer Survey was conducted using a Scintrex Fluxgate Magnetometer, MF - 2/100, Model 753011, Serial Number 79052-03. Reading differences were referenced to KM 26 post set at 200 Gammas. The readings are given on Figure: 10 and were taken by Wm. Chang, M. Sc. Geophysics McGill University. The dominant anomalous zones are shown on Figure: 10 and occur in the Camp Creek trough and trend North-easterly.

The EM-Geophysical Survey was conducted using a Scintrex Scopas Instrument, Serial Number 101023 SE 80; Model 707022 and reference Transmitting Station, Jim Creek, Washington, U.S.A. 48N12; 121W55; 18.6HZ; 250 KW. Details of the instrument are given in Annex-B. The readings of the Field Survey are given on:-

Figure: 11 - E.M. Azimuth Contour Map
Figure: 12 - Vertical Field (VLF) Contour Map
Figure: 13 - Dip Angle Profile Map

The readings were made by Wm. Chang M. Sc. McGill University, Geophysics. Interpretation was by Wm. Chang in conjunction with W. J. Weymark P. Eng..

7.0 Geophysical Surveys (Continued)

Results:

A composite Plot of the anomalous zones as interpreted for the EM and Magnetometer surveys is given on Figure: 14. The EM zones are not as well defined as those for the Magnetometer test, although they are coincident. The intensity relates with the geo-chemical copper and molybdenum anomalous zones.

8.0 Summary Conclusions:

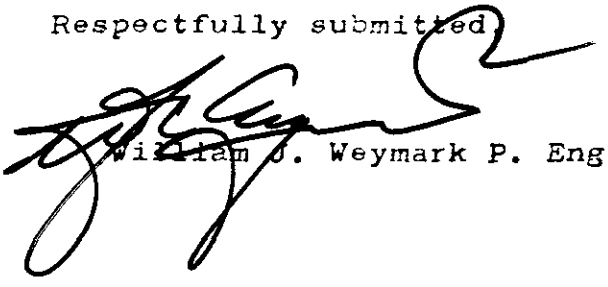
The results of the Geological-Geochemical-Geophysical Surveys as presently interpreted are:

1. The Geological formations provide a favourable setting for copper - molybdenum and other metallic minerals being similar to those at nearby Brenda operating mine and other deposits in the Cordillera tectonic belt. Structural features provide controlling and bounds and must be studied further.
2. Copper and Molybdenum anomalous zones of significant extent have been defined on the claims area. These are coincident with the Geo-physical and Geological trends.
3. Magnetometer and EM-Geophysical anomalous zones have been defined and are, in general, coincident with the Geochemical and Geological trends.

9.0 Recommendations:

On the bases of the results obtained from the relating Geological-Geochemical-Geophysical surveys conducted and referred to in this report, it is considered that further tests are warranted. These should include further geological studies and geophysical-geochemical tests as well as diamond drilling to define more clearly the extent and distribution of the Copper-Molybdenum mineral potentialities of the CMS Mineral Claim Group.

Respectfully submitted,



20 September 1980

William J. Weymark P. Eng.

CERTIFICATE

I, William (Woong) B. Chang, of the City of Coquitlam, in the Province of British Columbia, hereby certfy:

1. That I am a Geophysicist, and my address is 1967 Flynn Crescent, Coquitlam, B. C.

2. That I am a graduate of the Seoul National University with the degree of B.Sc. (1964) in Mining Engineering, of McGill University with the degree of M.Eng. (1970) in Applied Geophysics.

3. That I have worked on Exploration geophysics and geochemistry more than ten years.

Dated this 8th day of May 1981.

William B. Chang
Geophysicist

CERTIFICATE

I, William James Weymark, P. Eng., Consulting Engineer, President of Weymark Engineering Ltd., of the District of West Vancouver, of the Province of British Columbia, hereby certify that:-

1. I am a graduate of Mining Engineering of Queen's University Kingston, Ontario, B. Sc. 1940 and have been practising my Profession for thirty-five years.

2. I am a member of the Association of Professional Engineers of the Province of British Columbia, the Consulting Engineers' Division of the Association of Professional Engineers' of British Columbia and of the Association of Consulting Engineers of Canada.

3. I am a practising Consulting Engineer and reside at 3310 Westmount Road, West Vancouver, British Columbia.

4. I am a member of the Canadian Institute of Mining and Metallurgy, and of the American Institute of Mining, Metallurgical and Petroleum Engineers and of the American Geophysical Union.

5. I have no direct or indirect interest whatsoever in the CMS Mineral Claims Group with the Vendor or purchaser, nor do I expect any interest, direct or indirect.

6. The findings of the accompanying Report are based on my personal examinations of the CMS mineral claims during the Months of June, July and August 1980.

DATED at West Vancouver, British Columbia, this 20th Day of September 1980.

William James Weymark P. Eng.
President
Weymark Engineering Ltd.

APPENDICES

ANNEX - A

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 53230

INVOICE NO. 36135

RECEIVED May 29, 1980

ANALYSED June 11, 1980

TO: Weymark Engineering Ltd.
1063 Balfour Avenue
Vancouver, B.C.
V6H 1X2

ATTN:

SAMPLE NO. :	PPM Cu	PPM Mo
RG 8 + 00S	14	1
10 + 00	10	1
12 + 00	12	1
14 + 00	12	1
16 + 00	8	1
18 + 00	12	1
20 + 00	8	1
22 + 00	12	1
24 + 00	10	1
26 + 00	10	1
28 + 00	12	1
RG 30 + 00S	8	1
RG 2 + 00W	10	1
4 + 00	10	1
6 + 00	8	1
8 + 00	12	1
10 + 00	22	1
12 + 00	8	1
14 + 00	12	1
16 + 00	8	1
18 + 00	12	1
20 + 00	12	1
22 + 00	10	1
RG 24 + 00W	14	1
RH 0 + 00	20	7
2 + 00	28	3
RH 4 + 00	22	2
RJ 3 + 00	14	55
4 + 00	24	38
5 + 00	6	205
6 + 00	18	2
7 + 00	16	1
8 + 00	34	160
9 + 00	38	20
10 + 00	46	38
RJ 12 + 00	54	27
RK 0 + 00	20	1
1 + 00	10	1
2 + 00	14	1
RK 3 + 00	16	1

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hank Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

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CERTIFICATE NO. 53231

TO: Weymark Engineering Ltd.
1063 Balfour Avenue
Vancouver, B.C.
V6H 1X2

ATTN:

INVOICE NO. 36135

RECEIVED May 29, 1980

ANALYSED June 11, 1980

SAMPLE NO. :	PPM Cu	PPM Mo
RK 4 + 00	26	2
5 + 00	12	1
6 + 00	20	40
7 + 00	20	50
8 + 00	16	31
9 + 00	10	2
10 + 00	10	1
11 + 00	46	2
12 + 00	8	1
13 + 00	12	1
14 + 00	10	1
15 + 00	40	1
16 + 00	28	1
17 + 00	46	2
18 + 00	12	1
RK 19 + 00	12	1
RL 1 + 00	18	1
2 + 00	18	1
3 + 00	10	1
4 + 00	14	1
5 + 00	10	1
6 + 00	10	1
7 + 00	10	1
8 + 00	10	1
9 + 00	12	1
10 + 00	10	1
11 + 00	8	1
12 + 00	8	1
13 + 00	12	1
14 + 00	12	1
15 + 00	12	1
16 + 00	10	1
RL 17 + 00	8	1
RM 2 + 00E	8	1
4 + 00E	10	2
6 + 00E	10	1
8 + 00E	16	1
10 + 00	10	1
12 + 00	12	1
RM 14 + 00	16	1

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V6H 1X2

INVOICE NO. 36135

RECEIVED May 29, 1980

ATTN:

ANALYSED June 11, 1980

SAMPLE NO. :	PPM Cu	PPM Mo
RM 16 + 00	12	1
18 + 00	12	1
20 + 00	20	1
22 + 00	16	1
24 + 00	18	1
26 + 00	14	1
RM 28 + 00	16	1
RT 2 + 00	10	1
4 + 00	26	1
6 + 00	10	1
8 + 00	90	1
10 + 00	42	1
12 + 00	20	1
14 + 00	20	1
RT 16 + 00	10	1
RU 2 + 00	10	1
4 + 00	10	1
6 + 00	6	1
8 + 00	10	1
10 + 00	10	1
12 + 00	10	1
14 + 00	12	1
16 + 00	12	1
18 + 00A	12	1
18 + 00B	12	1
20 + 00	16	2
22 + 00	16	2
24 + 00	10	1
26 + 00	12	1
28 + 00	10	1
30 + 00	10	2
32 + 00	14	2
34 + 00	26	2
36 + 00	8	1
38 + 00	10	2
40 + 00	14	1
42 + 00	20	2
RU 44 + 00	28	3
RW 2 + 00E	10	2
RW 4 + 00E	8	1

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TO: Weymark Engineering Ltd.
1063 Balfour Avenue
Vancouver, B.C.
V6H 1X2

ATTN:

SAMPLE NO. :	PPM Cu	PPM Mo
RC 0 + 00	16	1
2 + 00	22	1
4 + 00	42	1
6 + 00	22	2
8 + 00	24	1
10 + 00	26	1
12 + 00	50	2
14 + 00	28	2
16 + 00	20	1
18 + 00	16	1
20 + 00	20	2
22 + 00	12	1
24 + 00	6	1
26 + 00	26	2
28 + 00	12	1
30 + 00	10	1
32 + 00	10	1
33 + 00	20	6
34 + 00	30	27
35 + 00	10	1
36 + 00	18	7
37 + 00	18	3
38 + 00	44	70
39 + 00	18	5
40 + 00	16	19
41 + 00	12	31
42 + 00	12	1
43 + 00	104	15
44 + 00	22	5
45 + 00	20	7
46 + 00	14	17
47 + 00	14	1
48 + 00	10	1
49 + 00	18	1
50 + 00	16	1
51 + 00	14	1
52 + 00	34	1
54 + 00	28	3
56 + 00	24	2
RC 58 + 00	22	2

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TO: Weymark Engineering Ltd.
1063 Balfour Avenue
Vancouver, B.C.
V6H 1X2

ATTN:

SAMPLE NO. :	PPM Cu	PPM Mo
RD 0 + 00	10	2
2 + 00	18	1
4 + 00	36	2
6 + 00	42	3
8 + 00	38	1
10 + 00	14	1
12 + 00	22	1
14 + 00	26	2
16 + 00	12	1
18 + 00	30	2
20 + 00	40	1
22 + 00	16	1
24 + 00	38	2
26 + 00	52	1
RD 28 + 00	32	1
RG 0 + 00	10	1
RG 2 + 00E	10	1
4 + 00	10	1
6 + 00	12	1
8 + 00	12	1
10 + 00	12	1
12 + 00	12	1
14 + 00	8	1
16 + 00	8	1
18 + 00	8	1
20 + 00	8	1
22 + 00	10	1
24 + 00	14	1
26 + 00	10	1
28 + 00	10	1
30 + 00	18	1
32 + 00	44	1
34 + 00	42	1
36 + 00	52	1
38 + 00	18	1
40 + 00	20	1
RG 42 + 00E	20	1
RG 2 + 00S	10	1
4 + 00	14	1
RG 6 + 00S	10	1

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RECEIVED May 29, 1980

ANALYSED June 11, 1980

TO: Weymark Engineering Ltd.
1063 Balfour Avenue
Vancouver, B.C.
V6H 1X2

ATTN:

SAMPLE NO. :	PPM Cu	PPM Mo
RW 6 + 00E	10	1
8 + 00	8	1
10 + 00	12	1
12 + 00	8	2
14 + 00	10	2
16 + 00	12	1
18 + 00	12	1
20 + 00	10	1
22 + 00	12	1
RW 24 + 00E	8	1
RHW 1 + 00	22	1
RHW 2 + 00	14	55
RHE 2 + 00	18	1
RHE 4 + 00	36	1
RHE 550	26	1
RMW 1 + 00	10	1
2 + 00	8	1
3 + 00	36	3
4 + 00	6	1
RMW 5 + 00	12	1
A 0 + 00	10	1
2 + 00E	20	1
2 + 00W	12	1
4 + 00	20	1
6 + 00	20	1
8 + 00	18	1
A 10 + 00W	14	1
T 200W	18	2
400	20	2
600	14	1
800	10	1
T 1000W	4	1
T 12 + 00S	4	1
12 + 00W	10	1
14 + 00	10	1
16 + 00	12	1
18 + 00	16	1
20 + 00	6	1
22 + 00	10	1
T 24 + 00W	8	1

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CERTIFIED BY: Hart Biddle

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 53234

TO: Weymark Engineering Ltd.
1063 Balfour Avenue
Vancouver, B.C.
V6H 1X2

ATTN:

INVOICE NO. 36135

RECEIVED May 29, 1980

ANALYSED June 11, 1980

SAMPLE NO. :	PPM Cu	PPM Mo	
T 26 + 00W	8	1	
28 + 00	10	1	
30 + 00	14	1	
T 32 + 00W	12	1	
U 2 + 00S	10	1	
4 + 00	10	1	
6 + 00	8	1	
8 + 00	8	2	
U 10 + 00S	8	1	
RC 27 + 00 STREAM A	12	2	
RC 27 + 00 STREAM B	12	2	
RC 54 + 00 STREAM	10	1	
RC 60 + 00	24	1	
RC 1400	4	1	ROCK
RD 2 0 + 00 STREAM	24	1	
RD 28 + 00 STREAM	20	1	
RG 14 + 00 W STREAM	8	1	
RG 28 + 00E	16	1	
RMW 3 + 00 STREAM	20	18	
RMW 4 + 00	12	2	
T + 200W STREAM	8	1	
T + 400W STREAM	10	1	
T + 600W STREAM	10	2	
U + 2 + 00 STREAM	24	1	
DECON 23, 24, 25, 26 STREAM	8	1	
CMS 4N 0W POST	8	1	

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CERTIFIED BY: Hart Biddle

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 53393

TO: Weymark Engineering Ltd.
1063 Balfour Avenue
Vancouver, B.C.
V6H 1X2

INVOICE NO. 36295

RECEIVED June 9, 1980

ATTN: ROCKS

ANALYSED June 17, 1980

SAMPLE NO. :	PPM Mo
8004 A	1
8006 A	8
8024 A	2

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 53394

INVOICE NO. 36295

RECEIVED June 9, 1980

ANALYSED June 17, 1980

TO: Weymark Engineering Ltd.
1063 Balfour Avenue
Vancouver, B.C.
V6H 1X2

ATTN:

SAMPLE NO. :	PPM Cu	PPM Mo
RW 0 + 00	12	1
200 A	10	1
400 B	10	1
600 C	6	1
800 D	10	1
1000 E	4	1
1200 F	10	1
1400 G	10	1
1600 H	10	1
RW 1800 I	6	1
2-3 500W CR	12	1
700W	8	1
900W	6	1
1100W	8	1
2-3 1300W wb stream	6	1
#3 0 + 00	16	1

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

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CERTIFICATE OF ASSAY

CERTIFICATE NO. 68624

INVOICE NO. 36584

RECEIVED June 23/80

ANALYSED July 2/80

TO: Weymark Engineering Ltd.,
1063 Balfour Ave.,
Vancouver, B.C.
V6H 1X2

ATTN:

SAMPLE NO. :	% Cu	% Mo
8476A	<0.01	0.002
8477A	<0.01	0.001

CTA MEMBER CANADIAN TESTING ASSOCIATION

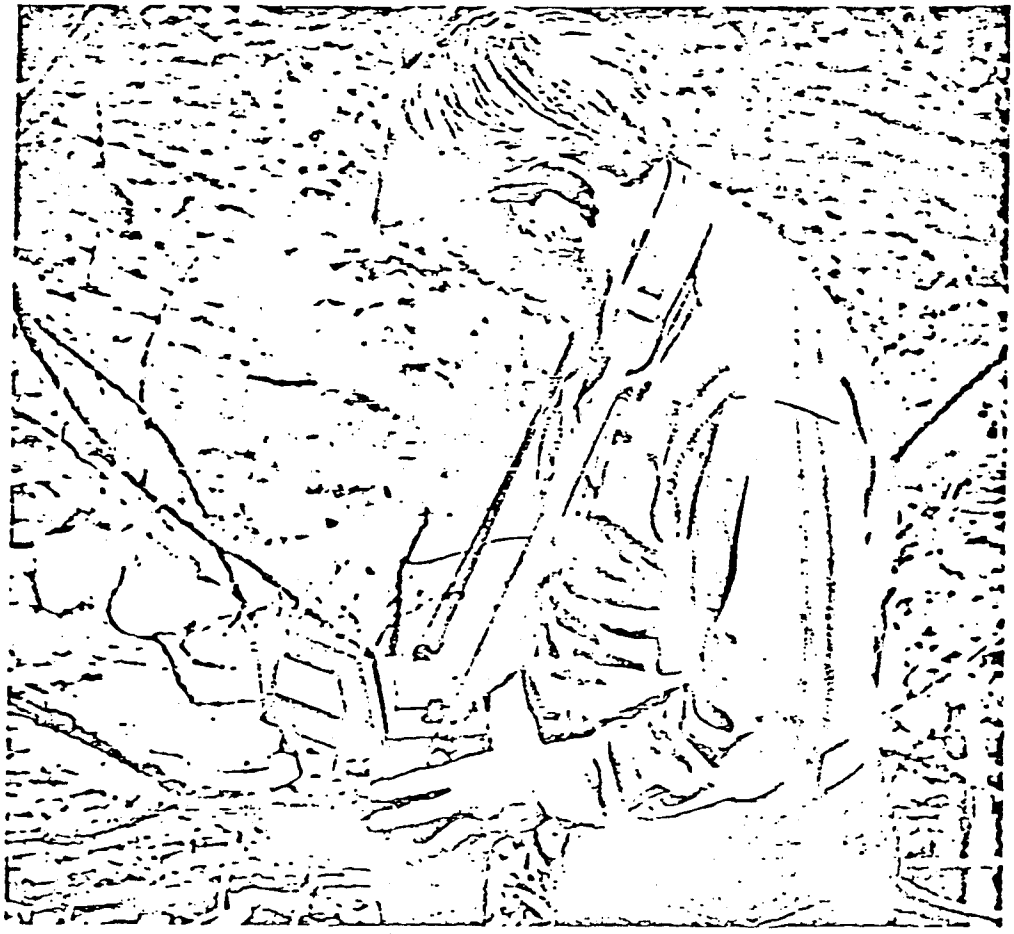
REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

McPHAR

M700 Flux Gate Magnetometer

Rugged, reliable instrument for hand-held field operation

- Self Levelling sensing head
- Five scale ranges: 1,000 to 100,000 gammas
- Low temperature drift
- Latitude adjustment up to ± 100,000 gammas
- Reverse measurement polarity by turn of switch
- Long battery life



M700 Flux Gate Magnetometer is a simple and efficient instrument for measuring changes in the earth's magnetic field. The two operating controls are mounted on the face of the instrument with the latitude adjustment and accessory socket concealed behind a panel on the side.

For measuring the vertical component of the earth's magnetic field, the instrument is set to zero at a chosen base station.
At each station on the survey the M700 is held roughly level, and a measurement of the increase or decrease in the magnetic field is read off the meter directly in gammas.

Measurement Ranges	Sensitivity
1,000 gammas	20 gammas/div.
3,000 gammas	50 gammas/div.
10,000 gammas	200 gammas/div.
30,000 gammas	500 gammas/div.
100,000 gammas	2,000 gammas/div.

Operating temperatures -35°C. to 55°C.
Temperature drift less than 50 gammas over entire operating range

Dimensions 4 x 7 x 10½ in. (10 x 18 x 27 cm.)

Weight
6½ pounds (3 kg.), less batteries and carrying case
8 pounds (3.6 kg.) with batteries

Batteries
Two internally mounted 9V batteries provide up to two months operation under normal conditions.

SCINTREX

SCOPAS* VLF ELECTROMAGNETIC UNIT MODEL

The SCOPAS* VLF System employs V.L.F. Radio Stations in the 15 to 25 kHz Range as primary field sources. The undisturbed field from these remote sources is essentially horizontal and of relatively constant strength. When conductors are present, the geometry and amplitude of the field are locally distorted and polarization of the field may occur.

With the versatile SCOPAS* unit, all amplitudes and geometric parameters as well as the characteristics of the polarization ellipse can be measured. For fast reconnaissance surveys dip-angle and field directions can be rapidly determined. For detailed surveys, amplitude relations and the elliptical polarization in the horizontal and vertical planes can be determined as well. Thus, the operator can select the parameters most useful for his search problem.

*Can. Pat. 676765

SPECIFICATIONS OF SCOPAS VLF ELECTROMAGNETIC UNIT MODEL SE-80

Primary Field:	From any selected VLF transmitting station in frequency range between 15.4 kHz to 25 kHz.
Station Selection:	By means of an eight step switch and variable control covering full range.
Measured Values:	a) The azimuth of horizontal field. b) The dip of the axis of the coil at the minimum field, measured from the vertical. c) The amplitude of the horizontal field strength in any direction. d) The amplitude of the vertical field strength. The phase angle between the maximum horizontal and vertical field can be calculated from measured values.
Normal Reading Accuracy:	Amplitude ±2%. Azimuth ±2°. Dip ±1°. — Dependent on signal strength.
Batteries:	Two 9 volt dry cells.
Dimensions:	9.66"x 3.68"x 5.80" 24.5 cm x 9.4 cm x 14.7 cm
Weight:	3 lbs. (1.35 kg)
Accessories:	Carrying strap.

SCINTREX LIMITED
222 Snidercroft Road · Concord, Ontario, Canada

ANNEX - C

COST DISTRIBUTION

1. Chemical Analyses $895.70
2. Wm. Chang M. Sc., Geophysical and Geochemical surveys 119-370 East Broadway, Vancouver .. 3,265.59 *
3. Weymark Engineering Ltd. Field Surveys, controls Office-preparation, assembly, collation, plotting, fairdrawing and interpretation of data and Report 2,600.00
4. Automobile rental ** 380.00
5. Reproductions and Maps 125.00

$7,266.29

William J. Weymark P. Eng.

Detailed Accounting

* Wm. Chang M.Sc. Geophysics, McGill University
302 - 1045 Haro
Vancouver, B. C.

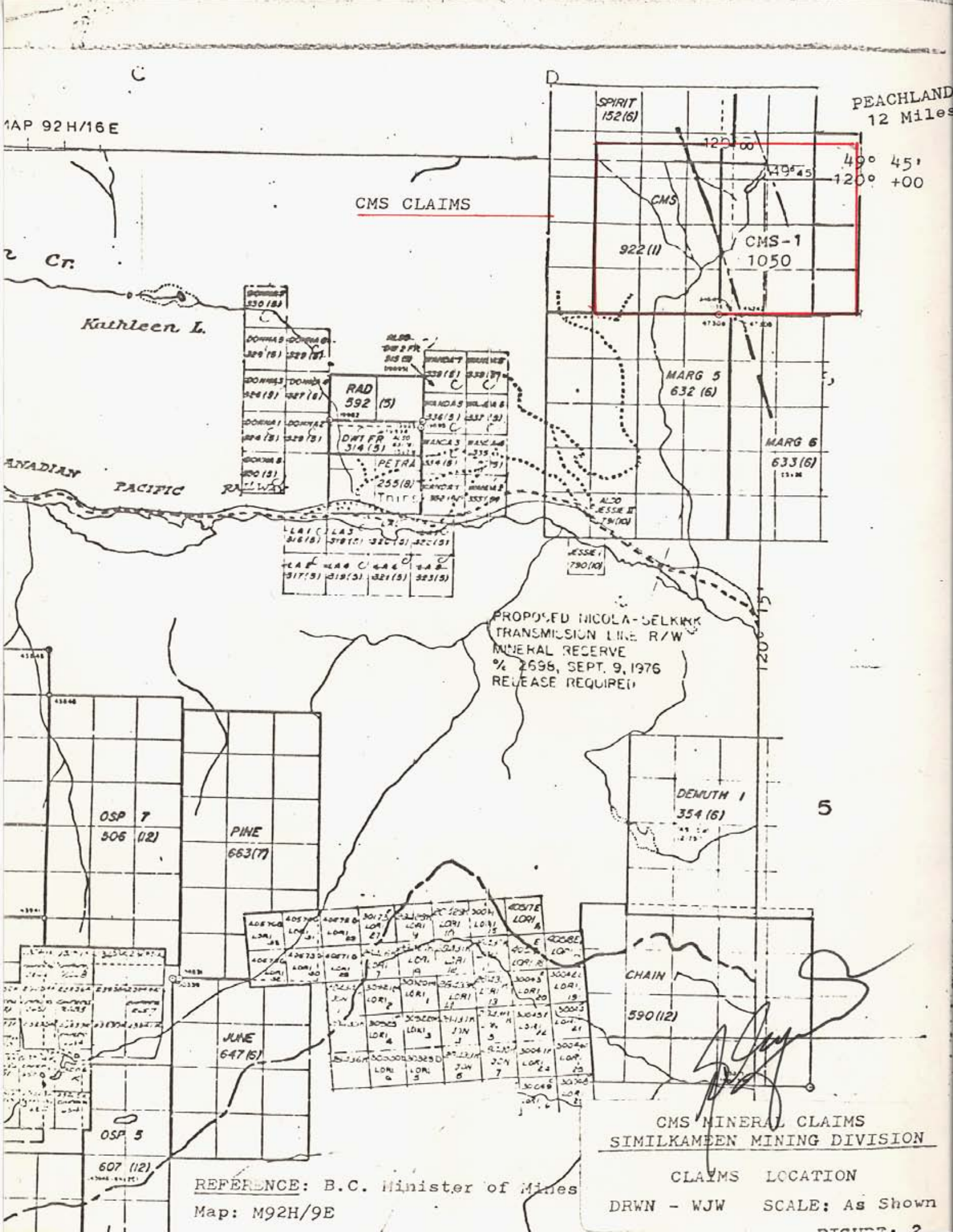
Field May 23 - 28: 10 June, 17 Aug 1980
Office: May 30-31; 2 June, 11-12 June 1980
Total Days 13 x $175 per day = $2275.00
Hotel and meals etc 358.59
Automobile -928 mi @ $0.25 232.00
Geophysical Instrmts rental
Kram Enterprises, Vanc 400.00

$3265.59

** Weymark Engineering
Automobile Mileage 950 x $.50 = $380.00
Field : May 23 - 29, 1980
Office : Sept 15 - 20th, 1980
13 days x $200 per day = $2600.00

Total $2980.00

ILLUSTRATIONS



CMS MINERAL CLAIMS
SIMILKAMEEN MINING DIVISION

CLAIMS LOCATION

DRWN - WJW SCALE: As Shown

REFERENCE: B.C. Minister of Mines
Map: M92H/9E

FIGURE: 2

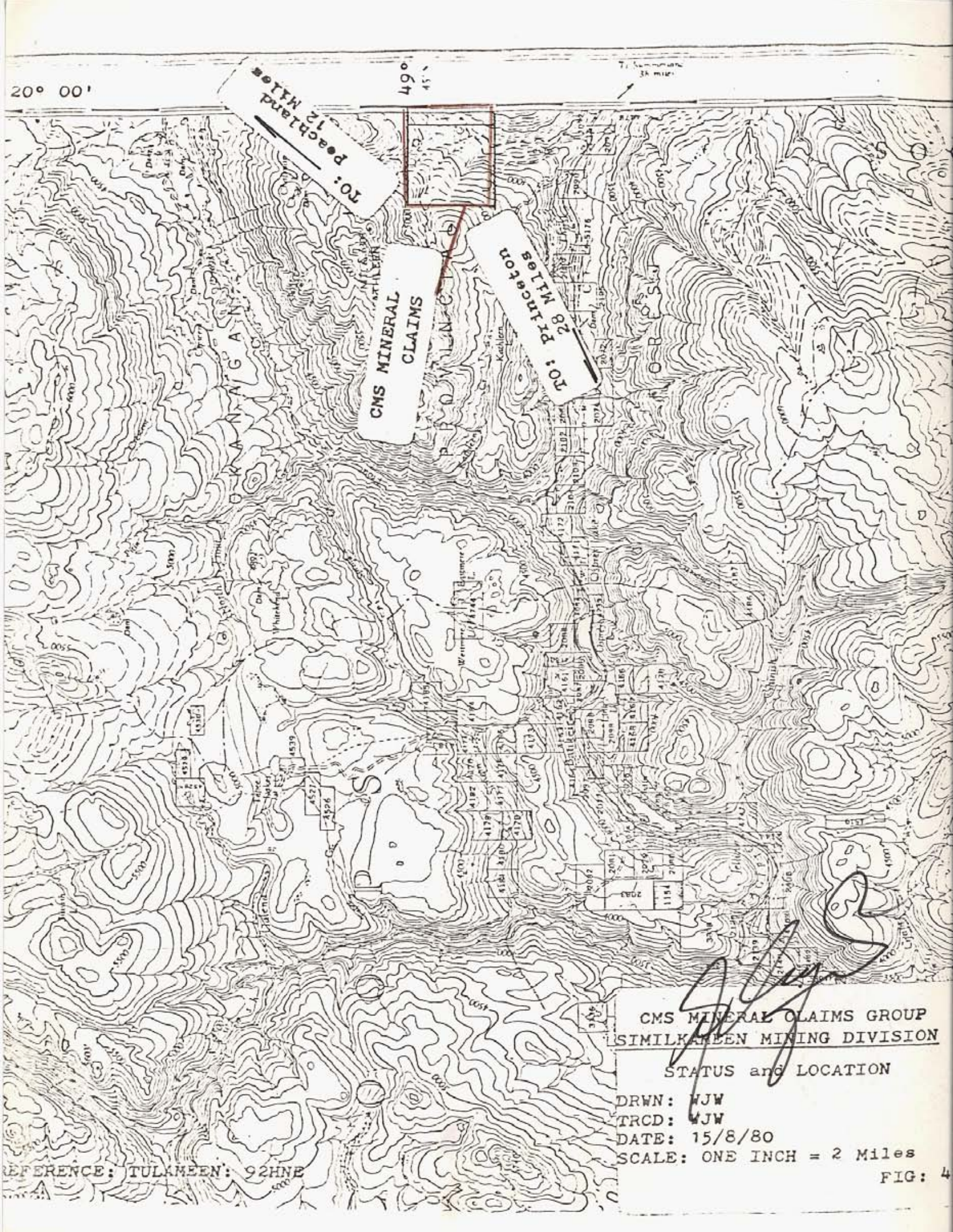
CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION

ACCESS and LOCATION

REFERENCE:
Topographic Series:
92H/9:92H/16
82E12: 82E13

DRWN: WJW
TRCD: WJW
DATE: 15/8/80
SCALE: 1:50,000

FIG: 3


20° 00'
49° 15'
TO: Peachland 12 Miles
TO: Princeton 28 Miles
CMS MINERAL CLAIMS
OKANAGAN
PROVINCE
CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION
STATUS and LOCATION
DRWN: WJW
TRCD: WJW
DATE: 15/8/80
SCALE: ONE INCH = 2 Miles
FIG: 4
REFERENCE: TULAMEEN: 92HNE

SHEET 92 H (East Half)

121°00' GEOLOGICAL SURVEY 50°00'

45'

Joins Map 886A, "Nicola"

15'

120°00' 50°00'

LEGEND

CENOZOIC

TERTIARY

MIOCENE OR LATER

19 — *Valley basalt: vesicular, varicoloured basalt*

18 — *Plateau basalt: amygdaloidal, brown basalt*

MIOCENE OR EARLIER

PRINCETON GROUP

16, 17 — 16. *Mainly shale, sandstone, and conglomerate; coal*
17. *Varicoloured andesite and basalt*

CRETACEOUS OR TERTIARY

UPPER CRETACEOUS OR LATER

14,15 — 14. *OTTER INTRUSIONS: pink and grey granite and granodiorite*
15. *LIGHTNING CREEK INTRUSIONS: grey quartz diorite*

CRETACEOUS

LOWER CRETACEOUS

KINGSVALE GROUP

12a-b,13 — 12a, *mainly volcanic breccia;* 12b, *mainly andesite and basalt porphyry*
13, *Andesite and basalt porphyry and volcanic breccia*

PASAYTEN GROUP

11 — *Mainly grit and shale;* 11a, *mainly purple lava, tuff, and breccia*

SPENCE BRIDGE GROUP

10 — *Hard, reddish andesite and basalt*

JURASSIC (?) AND CRETACEOUS

UPPER JURASSIC (?) AND LOWER CRETACEOUS

DEWDNEY CREEK GROUP

9 — *Tuff, volcanic breccia, grit, argillite;* 9a, *mainly conglomerate*

MESOZOIC

JURASSIC OR LATER

B — *COPPER MOUNTAIN INTRUSIONS: syenogabbro, augite diorite, pegmatite*

5,6,7 — *COAST INTRUSIONS:* 5, *grey, slightly gneissic granodiorite;* 6, *mainly reddish, coarse-grained, siliceous granite and granodiorite;* 7, *light coloured granodiorite, quartz diorite, and gabbro*

4 — *Peridotite, pyroxenite, gabbro*

MAP 888A

PRINCETON

YALE, KAMLOOPS, SIMILKAMEEN, AND OSOYOOS DISTRICTS BRITISH COLUMBIA

Scale, 253,440 or 1 Inch to 4 Miles

Miles 0 4 8 12

COPIES OF THIS MAP MAY BE OBTAINED FROM THE DIRECTOR, GEOLOGICAL SURVEY OF CANADA, OTTAWA

CMS MINERAL CLAIMS

To: Peachland 12 Miles

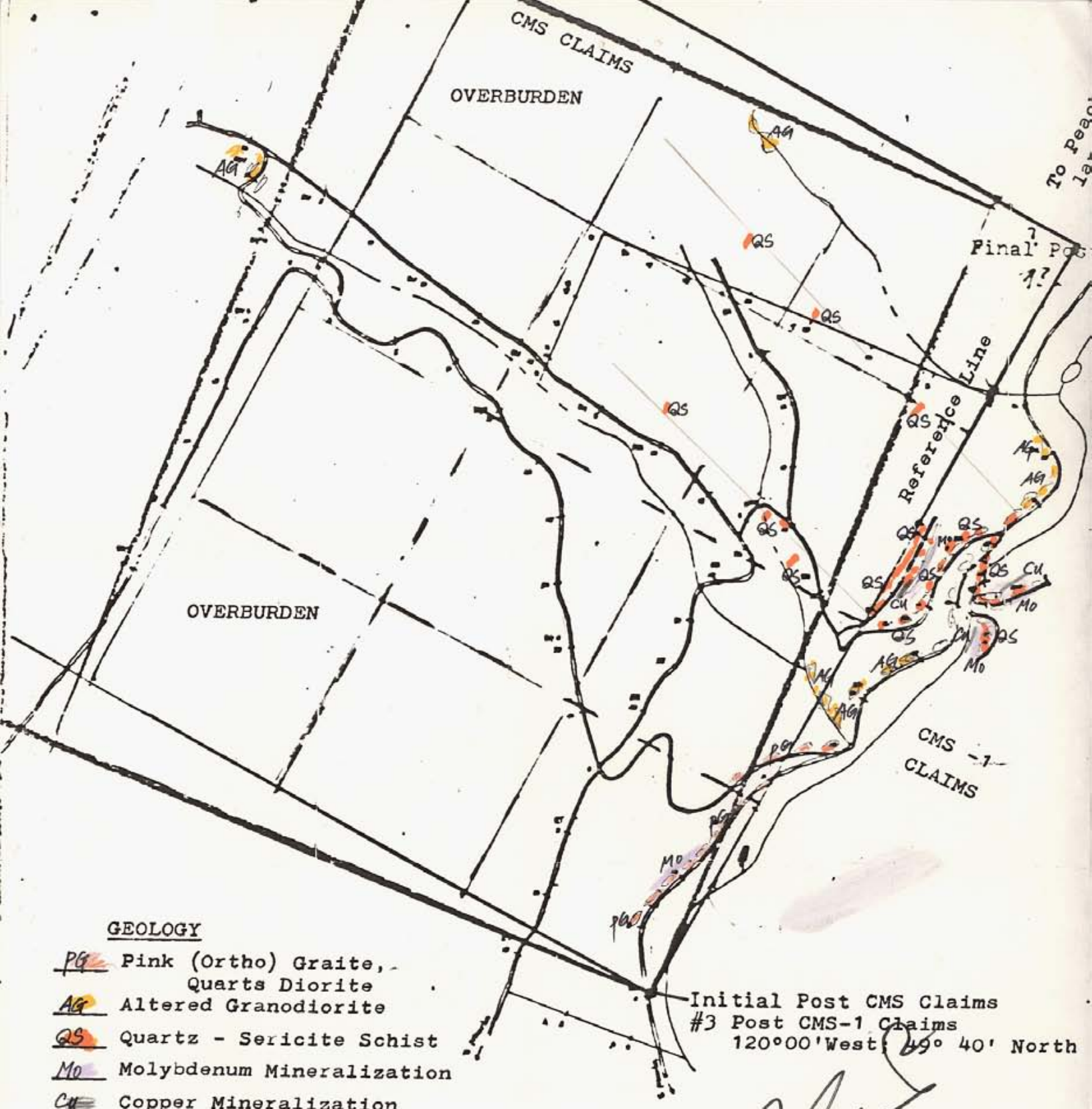
To: Princeton 28 Miles

CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION

REGIONAL GEOLOGY

DRWN WJW
TRCD WJW
Date: 15/8/80
SCALE: As Shown

FIG: 5



GEOLOGY

- PG Pink (Ortho) Graite, Quarts Diorite
- AG Altered Granodiorite
- QS Quartz - Sericite Schist
- Mo Molybdenum Mineralization
- Cu Copper Mineralization

Initial Post CMS Claims
#3 Post CMS-1 Claims
120°00'West; 49° 40' North

CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION

LOCAL GEOLOGY

Dewn: W.J.Weymark P. Eng.
Chkd: WJW
Date: 15/9/80
Scale: As Shown

FIGURE: 6

GEOCHEMICAL

COPPER

50	Above 50 ppm
40	40 - 50 ppm
	30 - 40 ppm
	20 - 30 ppm
	Below - 20 ppm

Sampling By: Wm. Chang M.Sc.

Interpretation:
Wm. Chang M.Sc.
W. J. Weymark P.Eng

Analyses: Cantest Ltd

Reference: Annex: A

Initial Post CMS Claims
No: 3 Post CMS-1 Claims

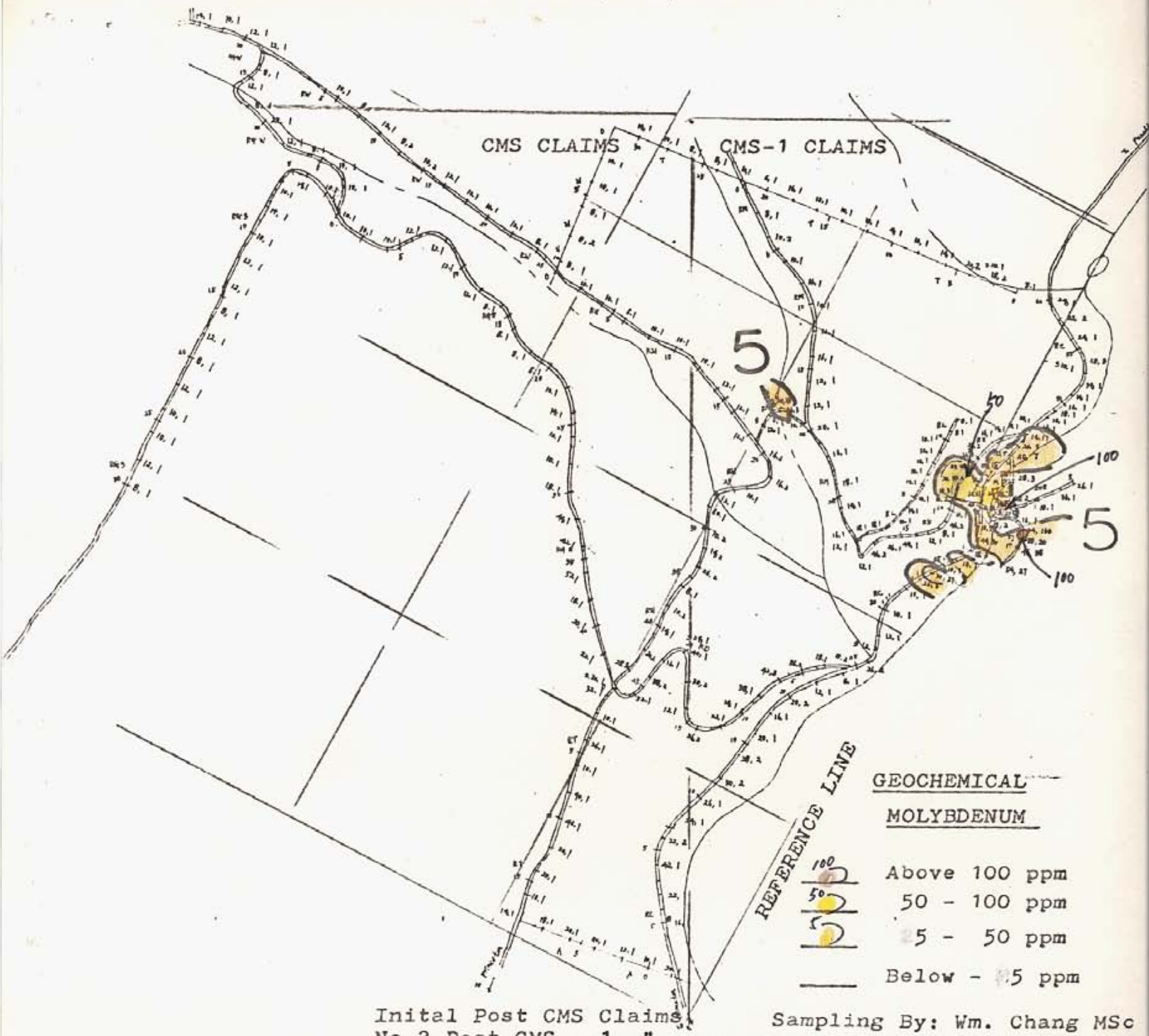
Co-ordinates
120° West
49° 40' North

12, 7 Molybdenum ppm
Copper ppm

CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION
COPPER GEOCHEMICAL SURVEY

Drwn: Wm. Chang M.Sc.
Ckd: WJW
Date 15/8/80
Scale: As Shown

FIG: 7



GEOCHEMICAL

MOLYBDENUM

100	Above 100 ppm
50	50 - 100 ppm
5	5 - 50 ppm
	Below - 5 ppm

Inital Post CMS Claims
No.3 Post CMS - 1 "
Co-ordinates
120° West
49° 40' North

Sampling By: Wm. Chang MSc

Interpretation:

Wm. Chang MSc.
W. J. Weymark P. Eng.

Analyses: Cantest Ltd

Reference: Annex - A

12 7 Molybdenum ppm
Copper ppm

CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION

MOLYBDENUM GEOCHEMICAL SURVEY

Drwn: Wm. Chang M.Sc.
Chkd: WJW
Date: 15/8/80
Scale: As Shown

FIG: 8

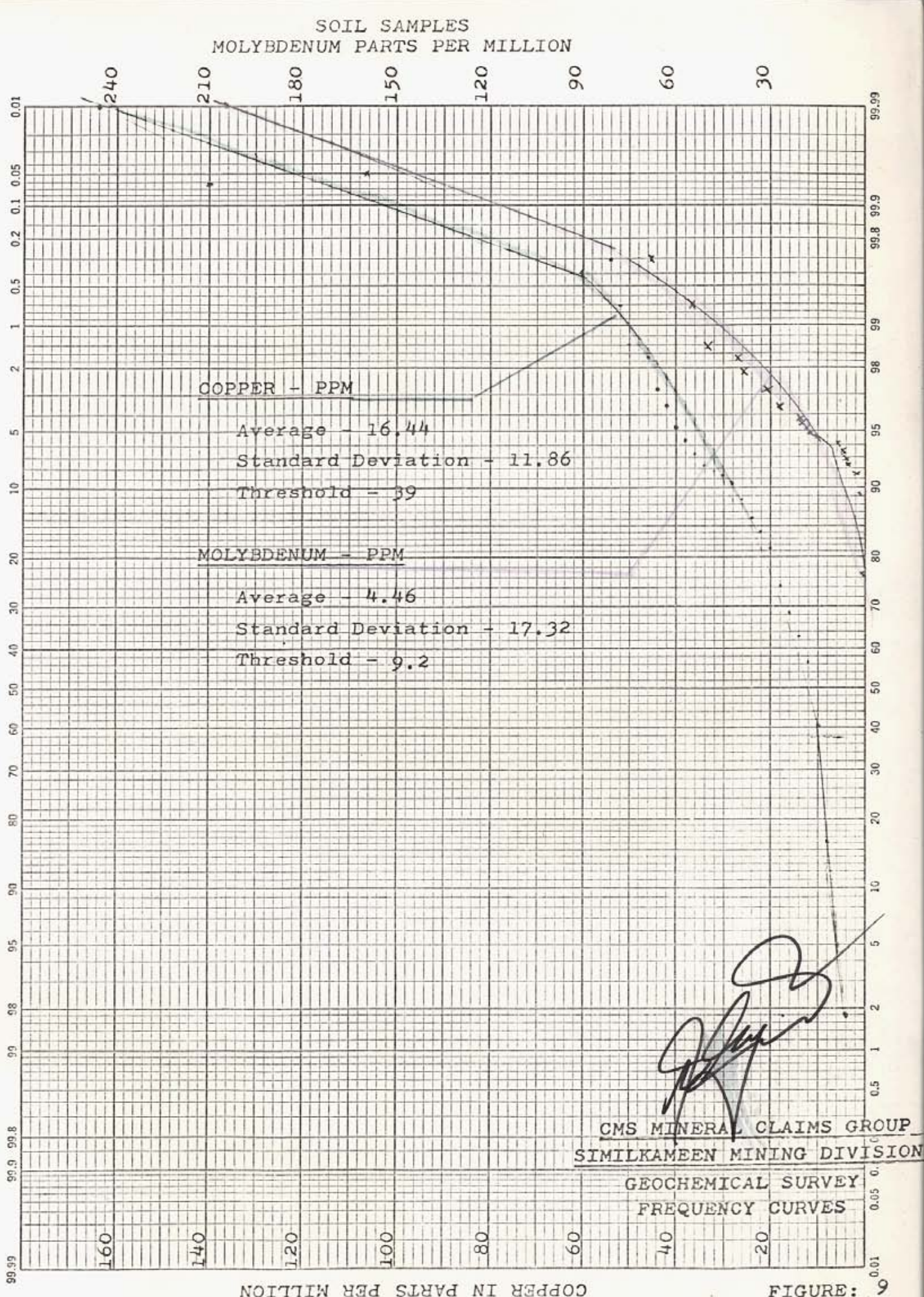


FIGURE: 9

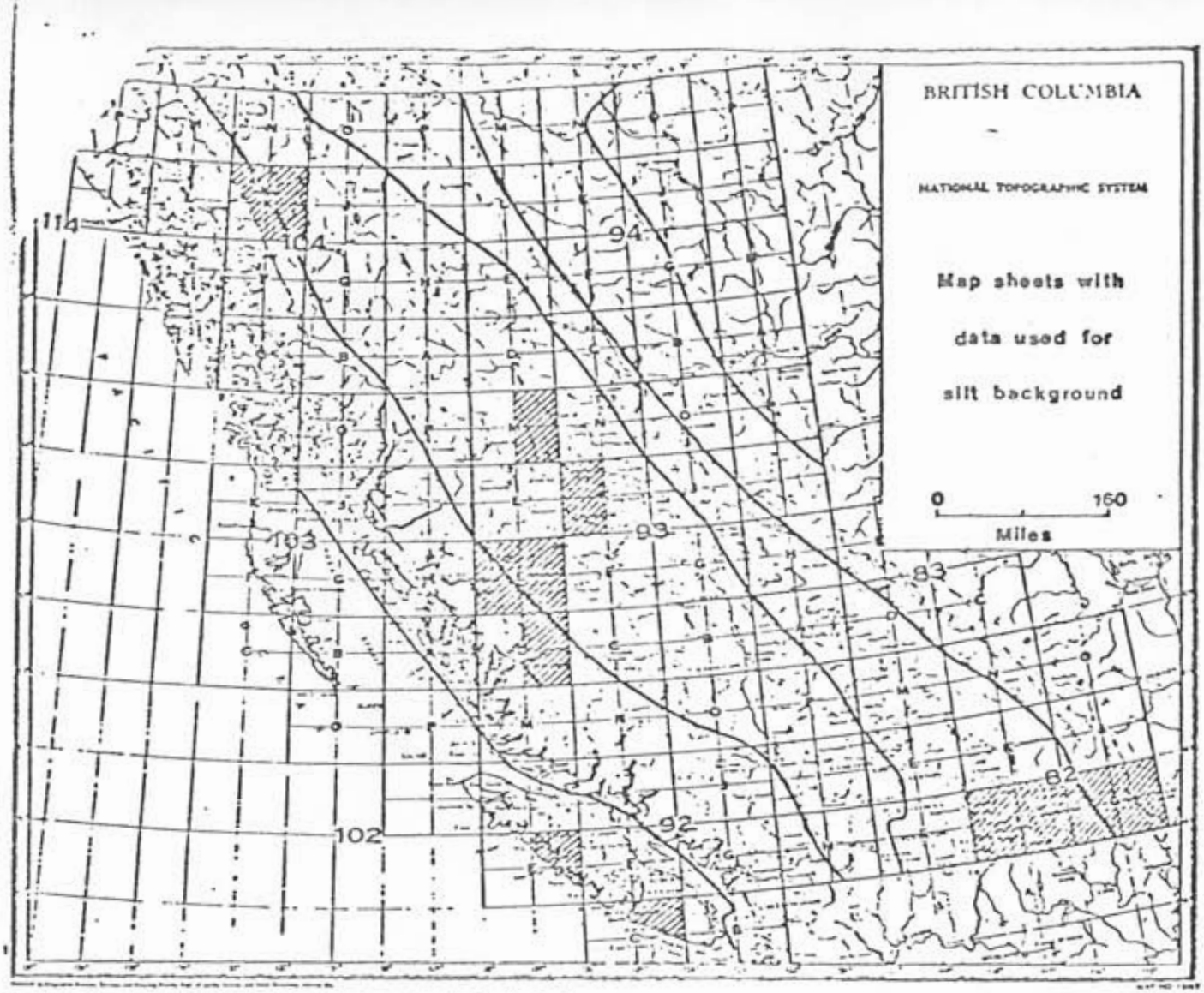


FIGURE 2 — Distribution of NTS areas in which silt background data are available.

Zonal Pattern of Backgrounds

It would be extremely useful to know accurately the areal pattern of metal abundances (background) throughout the Cordillera. This is not yet possible, but reflections of these figures are available to a greater or lesser degree in the regional background levels of silts and soils. Intensive work by exploration geochemists has led to the determination of these values, but they are not widely available and in fact relatively few companies seem to have made the effort to assemble and interpret them. Backgrounds for soils are available to those diligent enough to search the assessment report files of the British Columbia Department of Mines and Petroleum Resources. The writer assumes that silt backgrounds fairly truly represent averaged regional geochemical abundances. C. S. Ney and his former colleagues of Kennco Explorations, (Western) Limited provided the silt background for the NTS areas shown on Figure 2. These values were used to construct Figure 3, which purports to represent backgrounds for Cu, Zn, Mo and Pb for the respective belts. The values are listed in Table 4.

The writer sampled the geochemical reports in our assessment files to provide the data for Figure 5, which shows background for the same metals (Cu, Zn, Mo, and Pb) in soils. The data in the files are diverse — different standards of sampling and laboratory

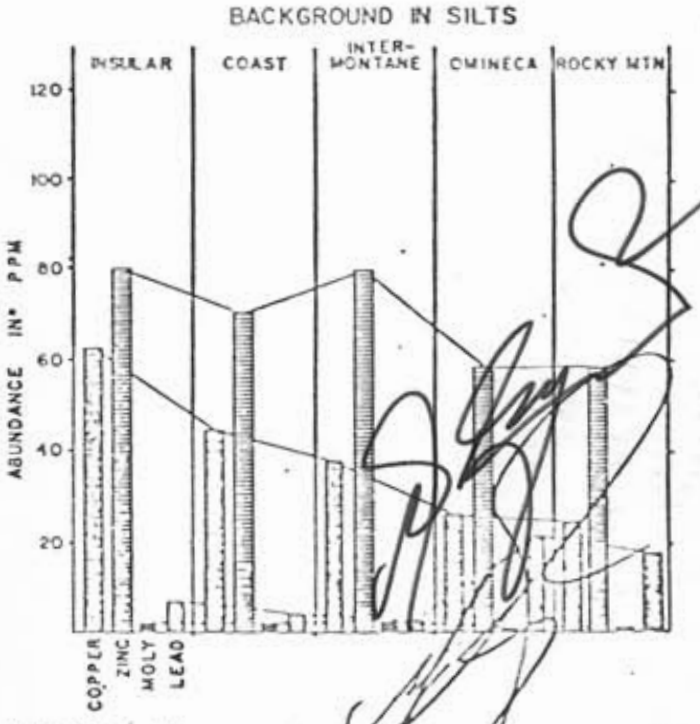
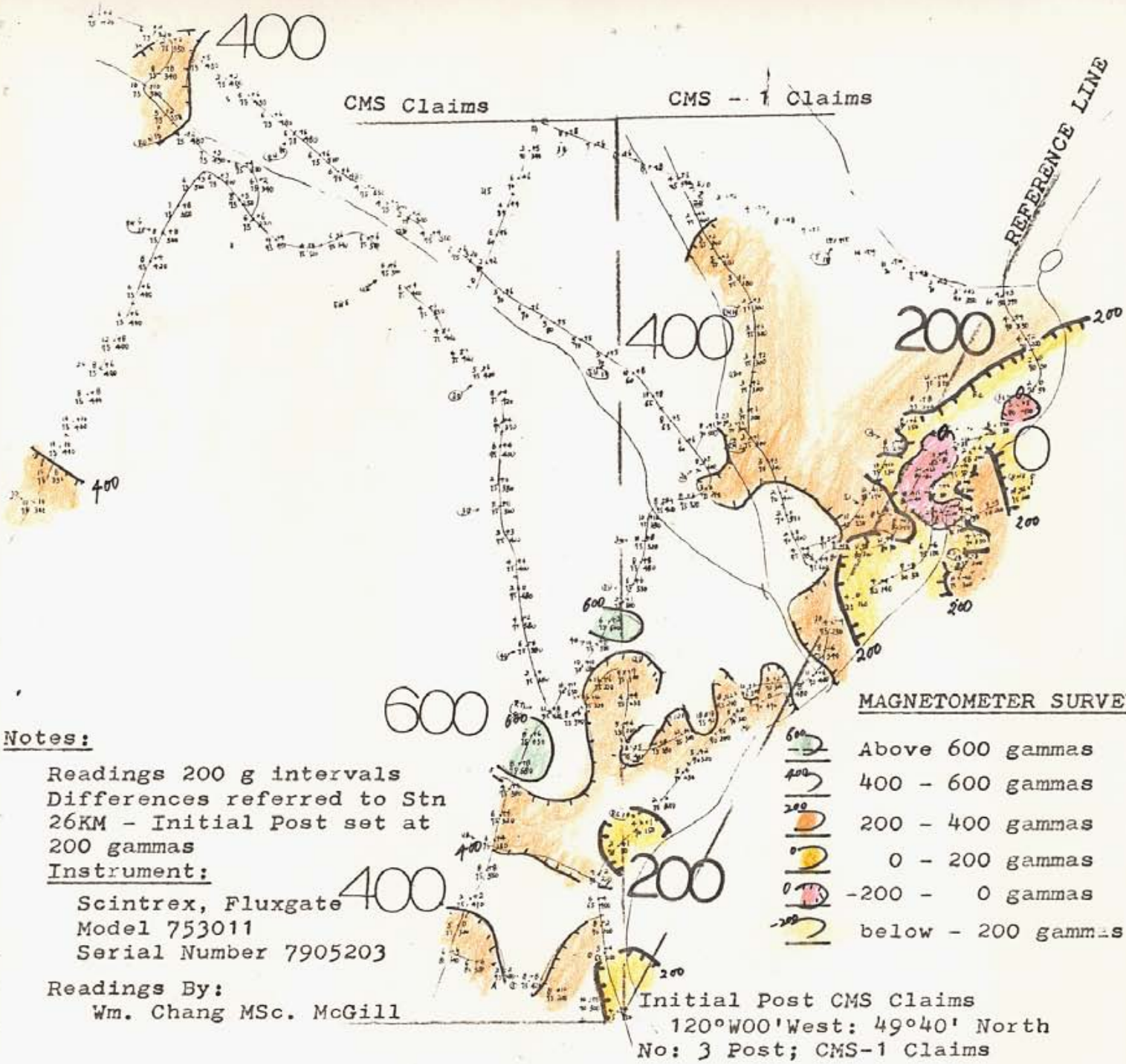


FIGURE 3 — Histogram of the average level of metal background in silts by tectonic belt.



Notes:

Readings 200 g intervals
Differences referred to Stn 26KM - Initial Post set at 200 gammas

Instrument:

Scintrex, Fluxgate
Model 753011
Serial Number 7905203

Readings By:
Wm. Chang MSc. McGill

Initial Post CMS Claims
120°W00'West: 49°40' North
No: 3 Post; CMS-1 Claims

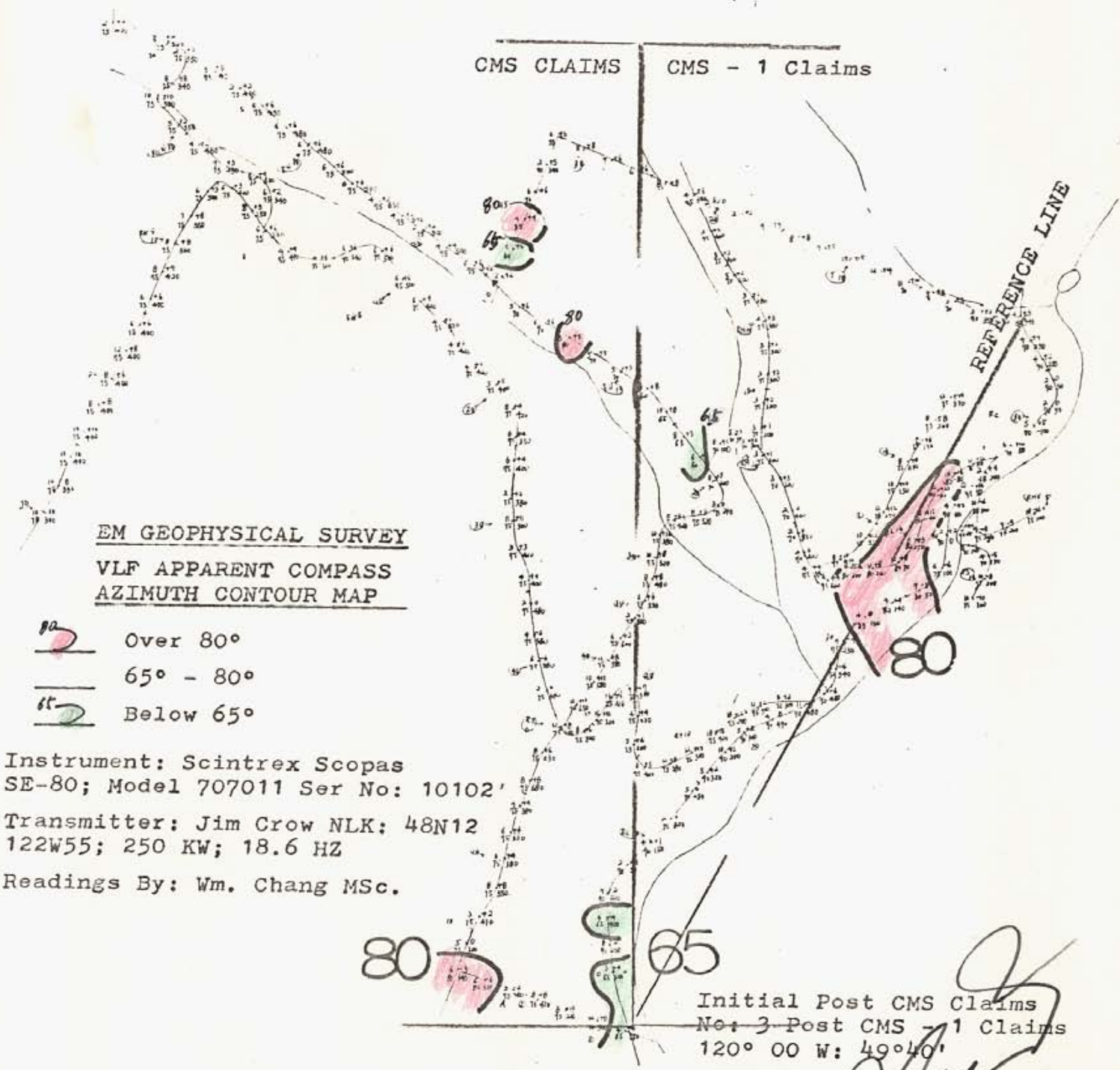
EM Vertical Field % — 10 | 8 — EM Dip Angle °

EM Apparent Compass Azimuth ° — 50 | 200 Magneti VF Gamma

CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION
GEOPHYSICAL SURVEY
MAGNETOMETER

Drwn: Wm. Chang MSc
Chkd: WJW
Date 15/8/80
Scale: As Shown

FIGURE: 10



EM GEOPHYSICAL SURVEY

VLF APPARENT COMPASS AZIMUTH CONTOUR MAP

Over 80°

65° - 80°

Below 65°

Instrument: Scintrex Scopas SE-80; Model 707011 Ser No: 10102'

Transmitter: Jim Crow NLK: 48N12 122W55; 250 KW; 18.6 HZ

Readings By: Wm. Chang MSc.

Initial Post CMS Claims
~~No: 3 Post~~ CMS - 1 Claims
120° 00 W: 49°40'

CMS MINERAL CLAIM GROUP

SIMILKAMEEN MINING DIVISION

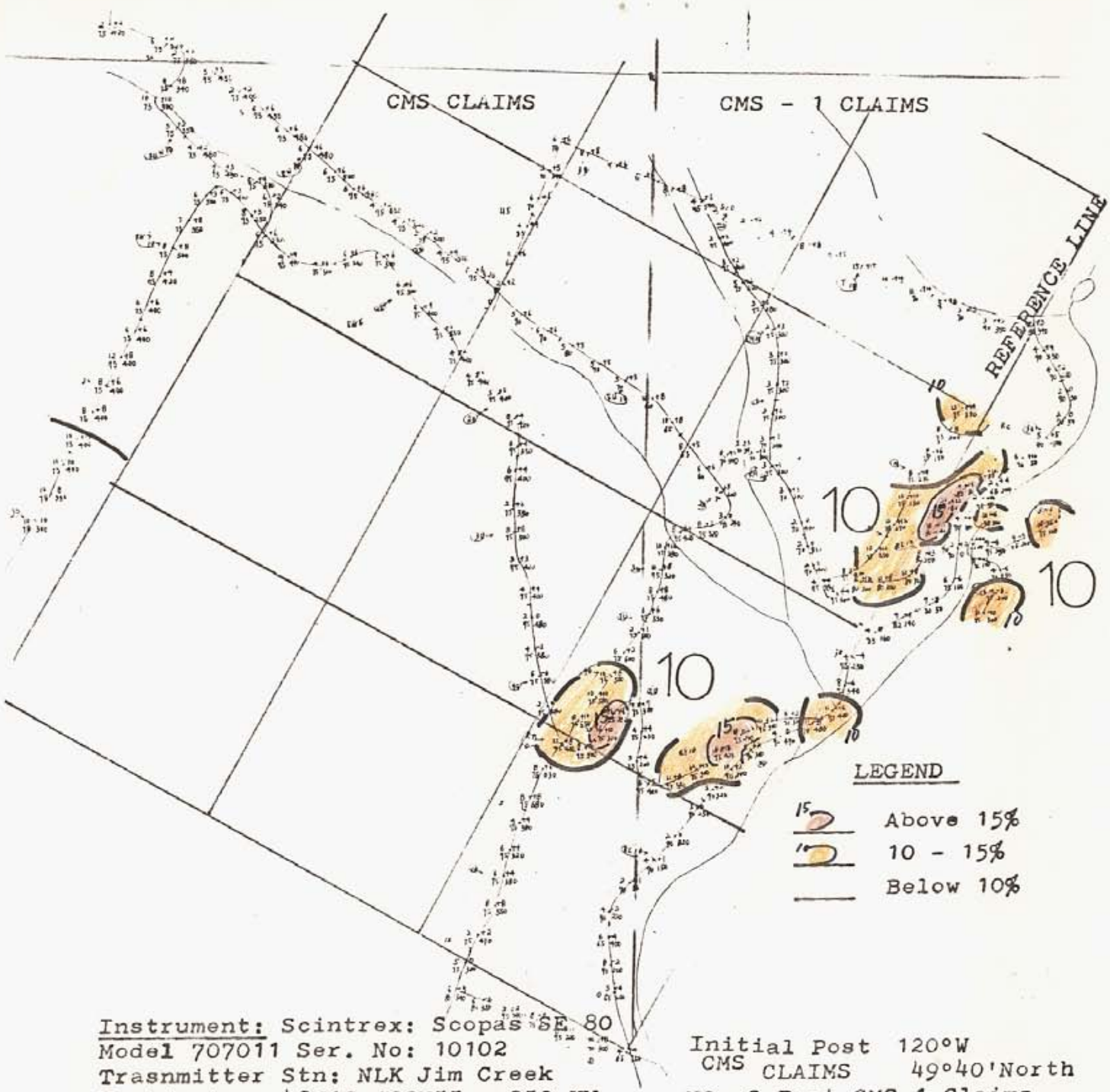
GEOPHYSICAL SURVEY
EM VLF APPARENT COMPASS AZIMUTH

Drwn: Wm. Chang MSc
Chkd: WJW
Date: 10/9/80
Scale: As Shown

FIGURE: 11

EM Vertical Field % — 10 | 8 — EM Dip Angle

EM Apparent Compass Azimuth ° — 50 | 580 — Magnetic VF Gamma



Instrument: Scintrex: Scopas SE 80
Model 707011 Ser. No: 10102
Trasnmitter Stn: NLK Jim Creek
Washington, 48N12 122W55 - 250 KW
Scale: 1 inch = 1000Ft

Readings: Wm. Chang M.Sc. McGill

Initial Post 120°W
CMS CLAIMS 49°40'North
NO: 3 Post CMS-1 Claims

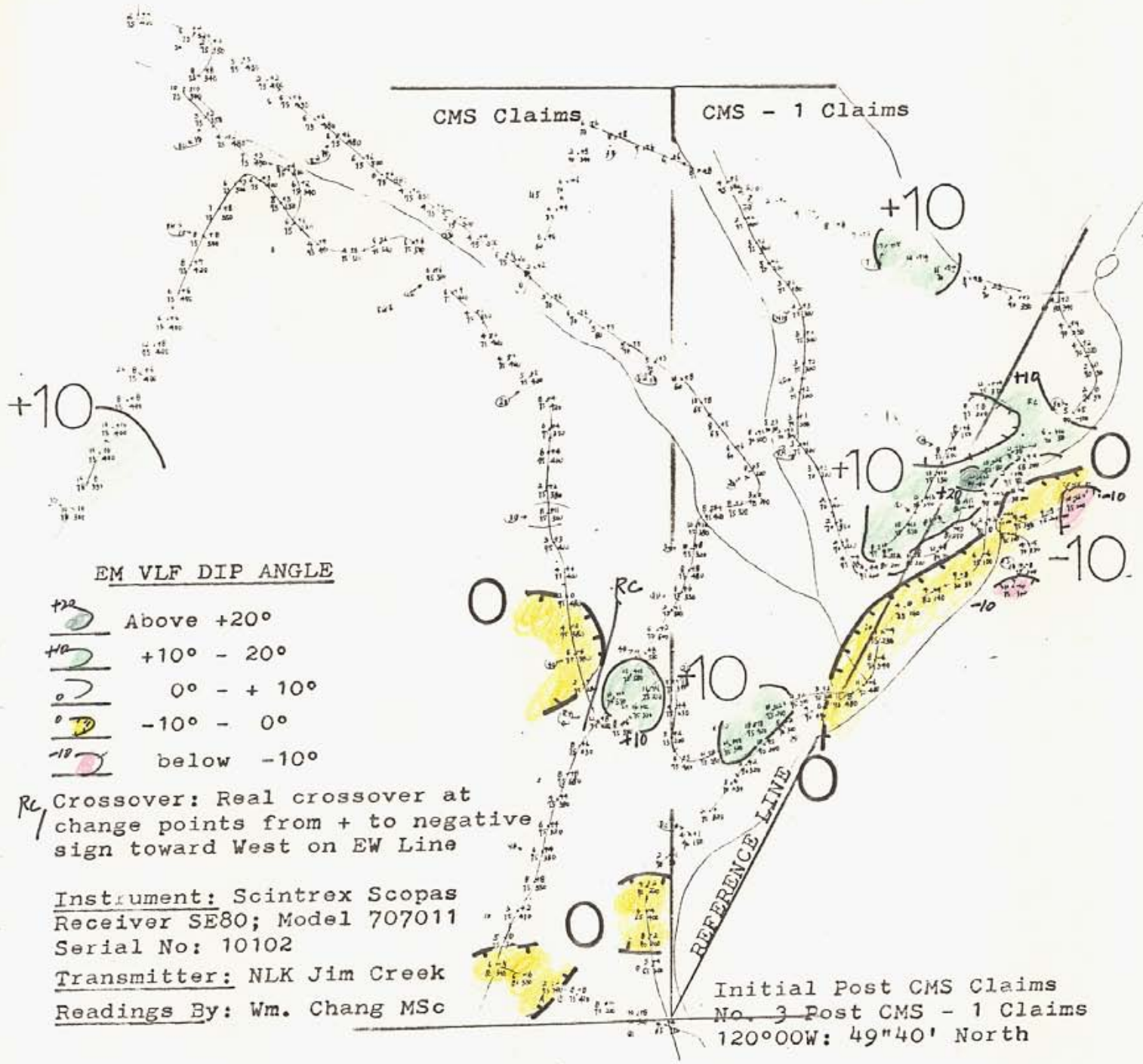
EM Vertical Field % — 10 | EM Dip Angle ° — 8
EM Apparent Compass Azimuth ° — 50 | 580 — Magnetic VF Gamma

CMS MINERAL CLAIMS GRO
SIMILKAMEEN MINING DIVISI

GEOPHYSICAL SURVEY
EMVLF VERTICAL FIELD CONTOU

Drwn: Wm. Chang M.Sc
Chkd: WJW
Date: 15/8/80
Scale: As Shown

FIG: 1

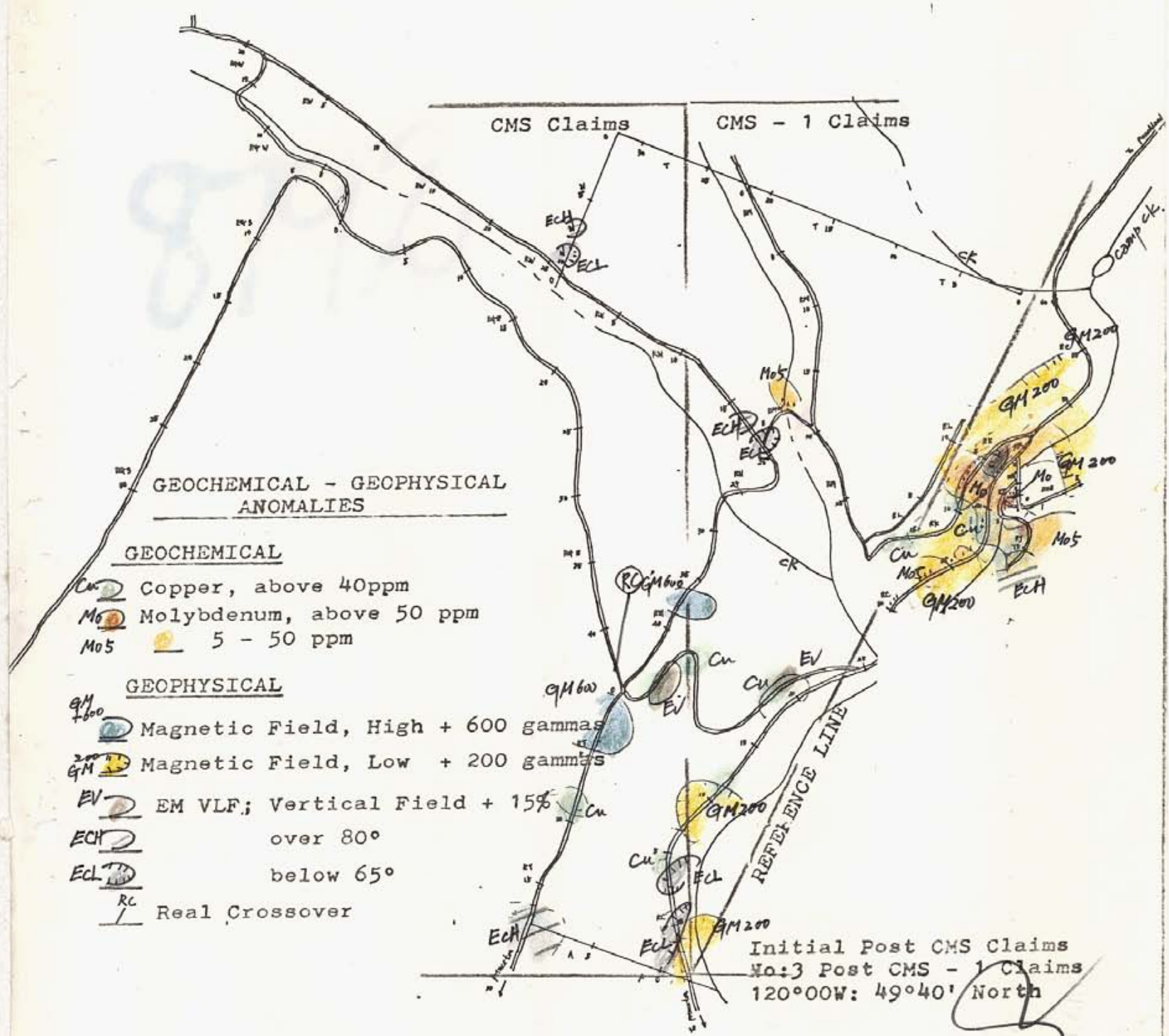


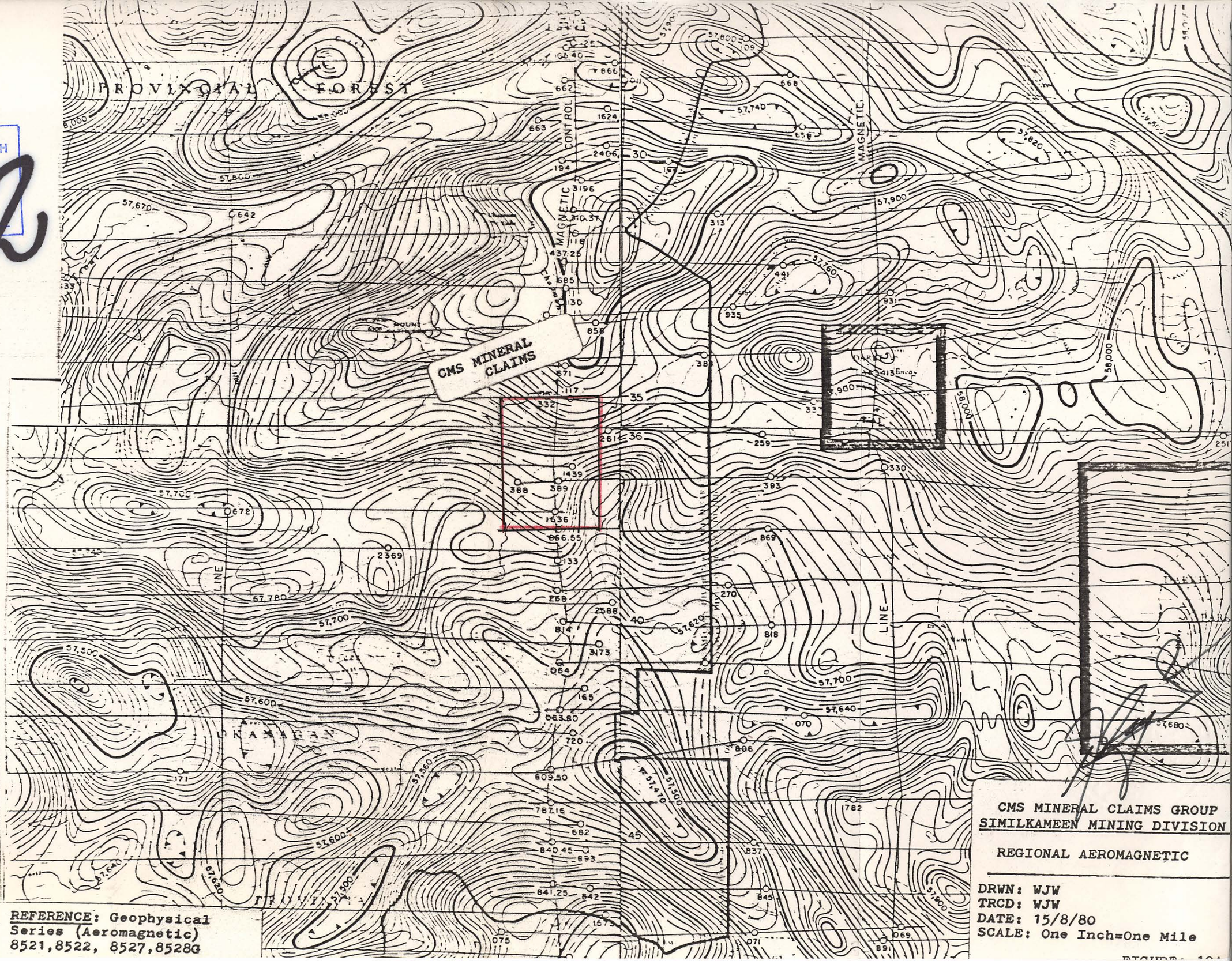
CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION

GEOPHYSICAL SURVEY
EMF (VLF) DIP ANGLE

Drwn: Wm. Chang MSc
Chkd: WJW
Date: 10/9/80
Scale: As Shown

FIGURE: 13


CMS Claims
CMS - 1 Claims
GEOCHEMICAL - GEOPHYSICAL ANOMALIES
GEOCHEMICAL
Cu Copper, above 40ppm
Mo Molybdenum, above 50 ppm
Mo5 5 - 50 ppm
GEOPHYSICAL
GM +600 Magnetic Field, High + 600 gammas
GM 200 Magnetic Field, Low + 200 gammas
EV EM VLF; Vertical Field + 15% over 80°
ECH over 80°
ECL below 65°
RC Real Crossover
REFERENCE LINE
Initial Post CMS Claims
No:3 Post CMS - 1 Claims
120°00W: 49°40' North
CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION
COMPOSITE
GEOCHEMICAL - GEOPHYSICAL
ANOMALIES
Drwn: Wm: Chang MSc
Chkd: WJW
FIG: 14



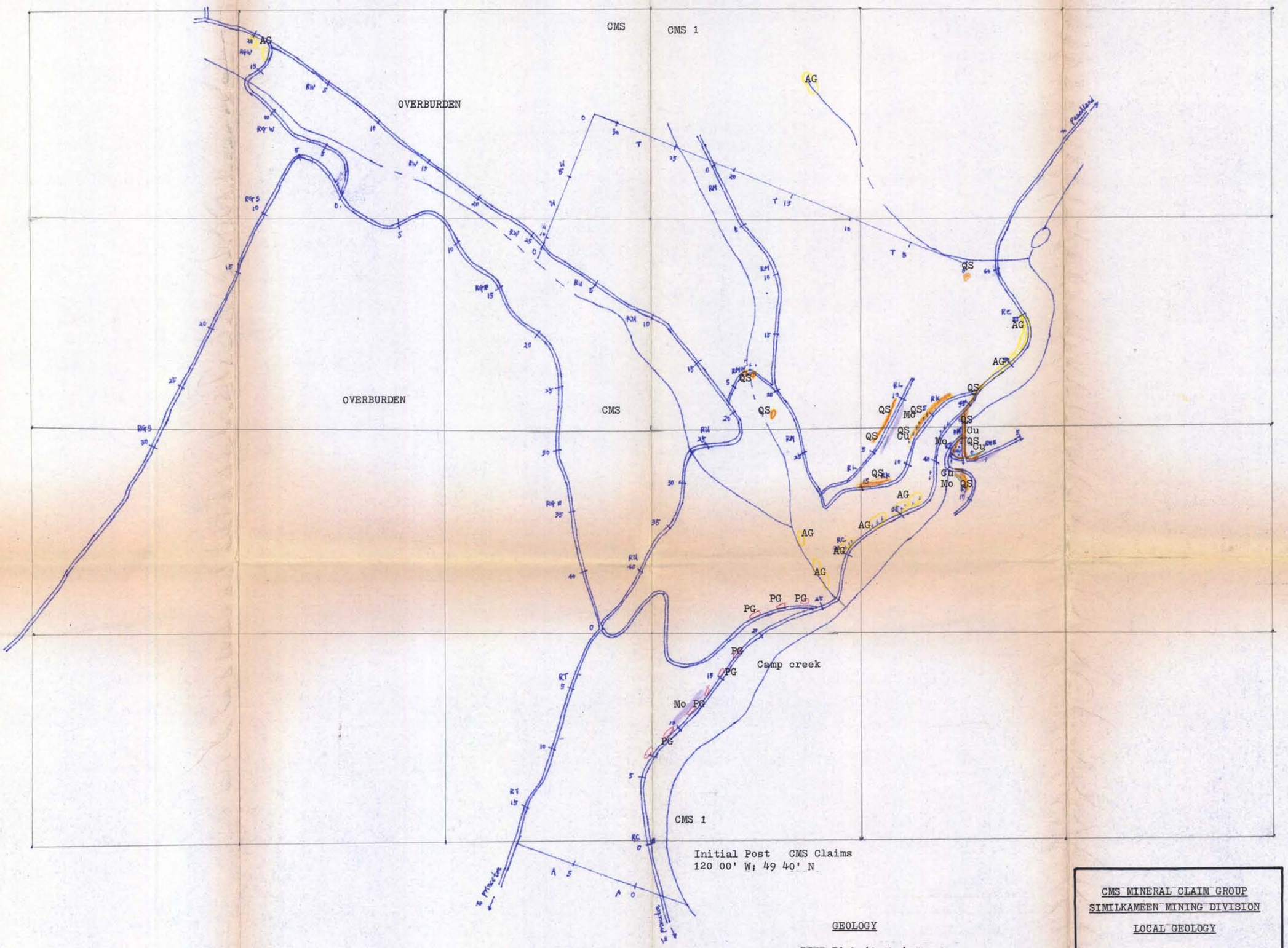
REFERENCE: Geophysical Series (Aeromagnetic) 8521, 8522, 8527, 8528G

CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION

REGIONAL AEROMAGNETIC

DRWN: WJW
TRCD: WJW
DATE: 15/8/80
SCALE: One Inch=One Mile

FIGURE: 10



GEOLOGY

PG Pink (Ortho) Granite
Quartz Diorite
AG Altered Granodiorite
QS Quartz - Sericite Schist
Mo Molybdenum Mineralization
Cu Copper Mineralization

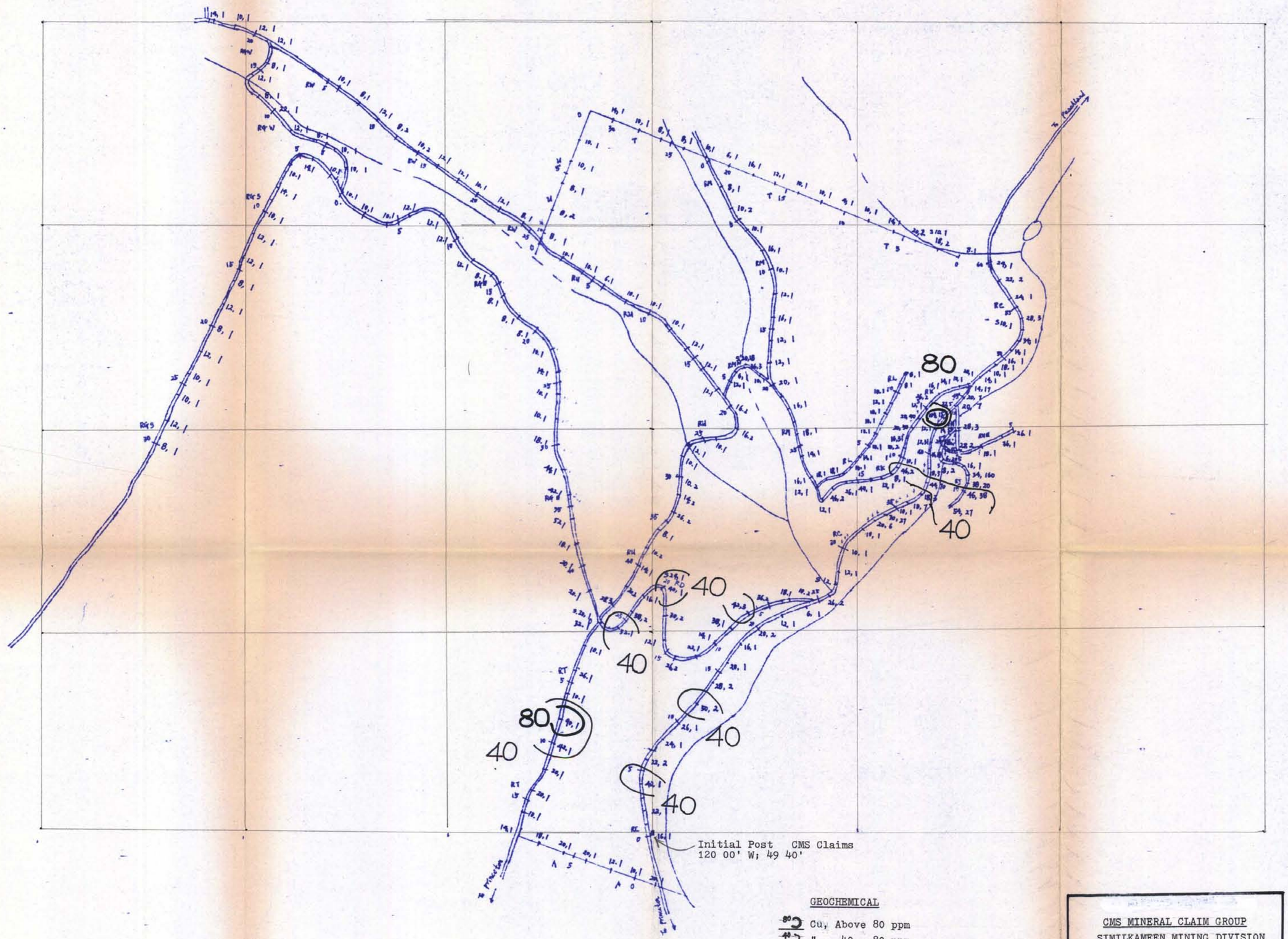
CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION

LOCAL GEOLOGY

Drwn: W. J. Weymark P. Eng.
Chkd: WJW
Date:
Scale: 1" = 500'
1cm = 60M

Fig: 6

8792



GEOCHEMICAL

80 Cu, Above 80 ppm
40 " , 40 - 80 ppm
" , Below 40 ppm

Sampling By: Wm Chang ME
Interpretation: Wm Chang, W J Weymark PE
Analyses: Cantest Ltd.
Reference: Annex A

T.N. M.N. 22°E

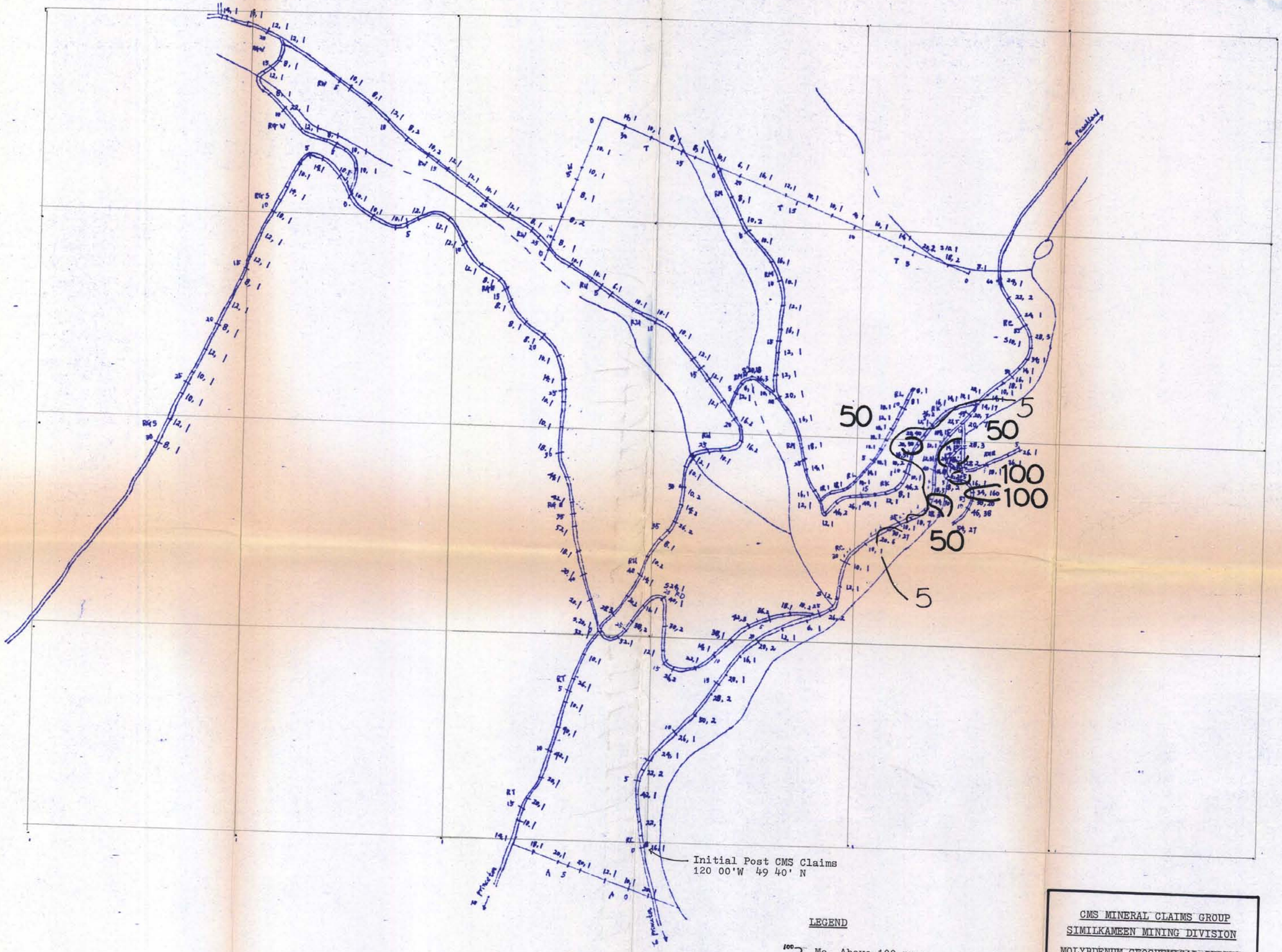
0' 500' 1000'

12.7 Molybdenum ppm
Copper ppm

CMS MINERAL CLAIM GROUP
SIMILKAMEEN MINING DIVISION
COPPER GEOCHEMICAL SURVEY

Drwn: Wm Chang
Chkd: WJW
Date:
Scale: 1" = 500'
1cm = 60M

Fig 7



LEGEND

100 / 50 Mo, Above 100 ppm
50 / 5 50 - 100 ppm
5 / 5 5 - 50 ppm

Sampling by: Wm Chang ME
Interpretation: Wm Chang
W. J. Weymark P Eng
Analyses: Can Test Ltd

12, 7 ← Molybdenum ppm
Copper ppm

T.N. M.N. 22°E

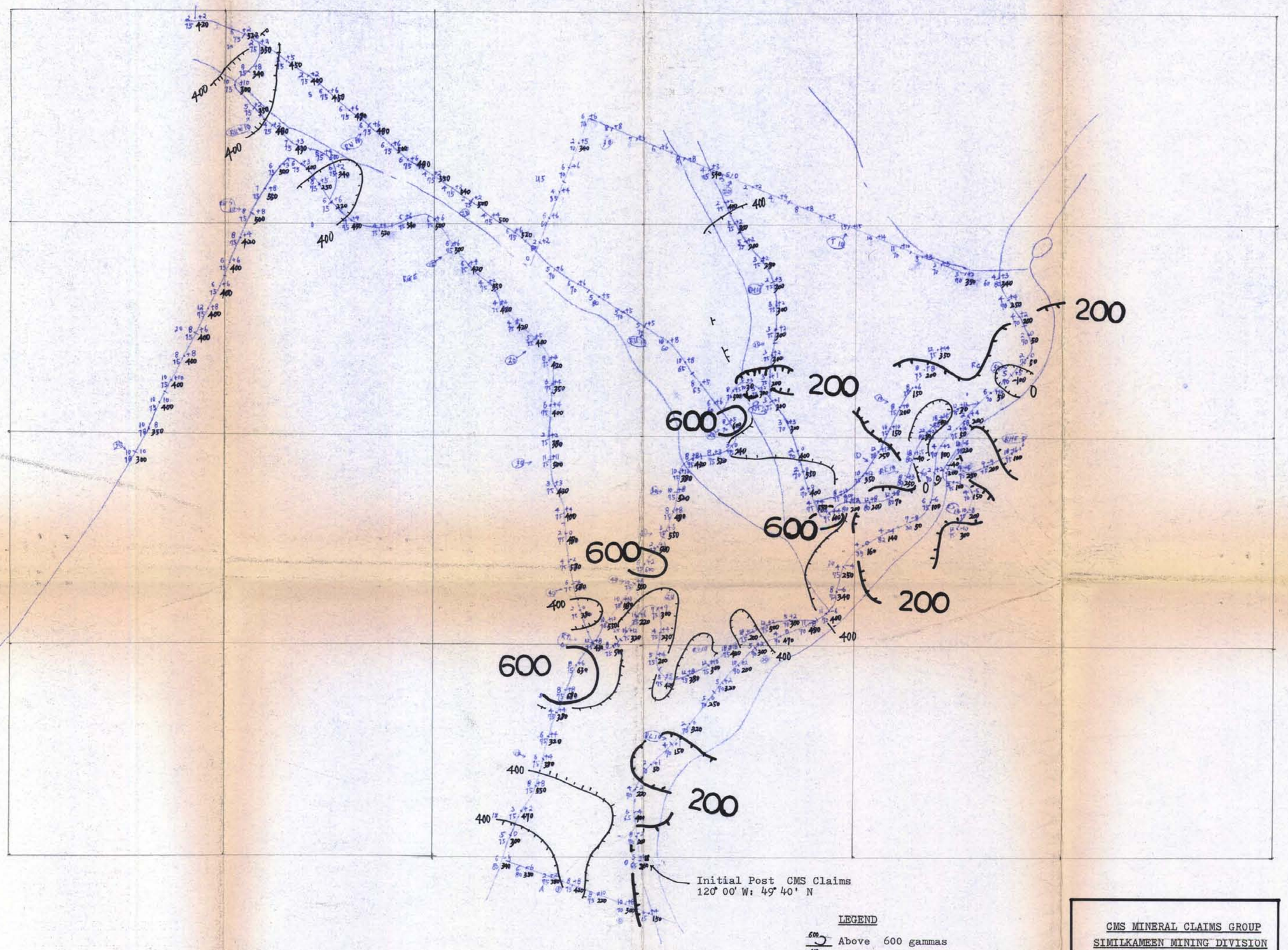
0' 500' 1000'

CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION
MOLYBDENUM GEOCHEMICAL SURVEY

Drwn: Wm Chang
Chkd: WJW
Date:
Scale: 1" = 500'
1cm = 60M

Fig: 8

8792



LEGEND

600	Above 600 gammas
400	400 - 600 "
200	200 - 400 "
0	0 - 200 "
-200	-200 - 0 "
	Below -200 "

Readings by: Wm Chang ME
Differences referred to Stn Initial post (26Km) set at 200 gammas

Instrument: Seintrex Fluxgate
Model 753011 Ser No 7905023

EM Vertical Field %	EM Dip Angle °
10	8
EM Apparent Compass Azimuth ° 50	200 Magnetic VF Gamma

TN GN MN 26°

0' 500' 1000'

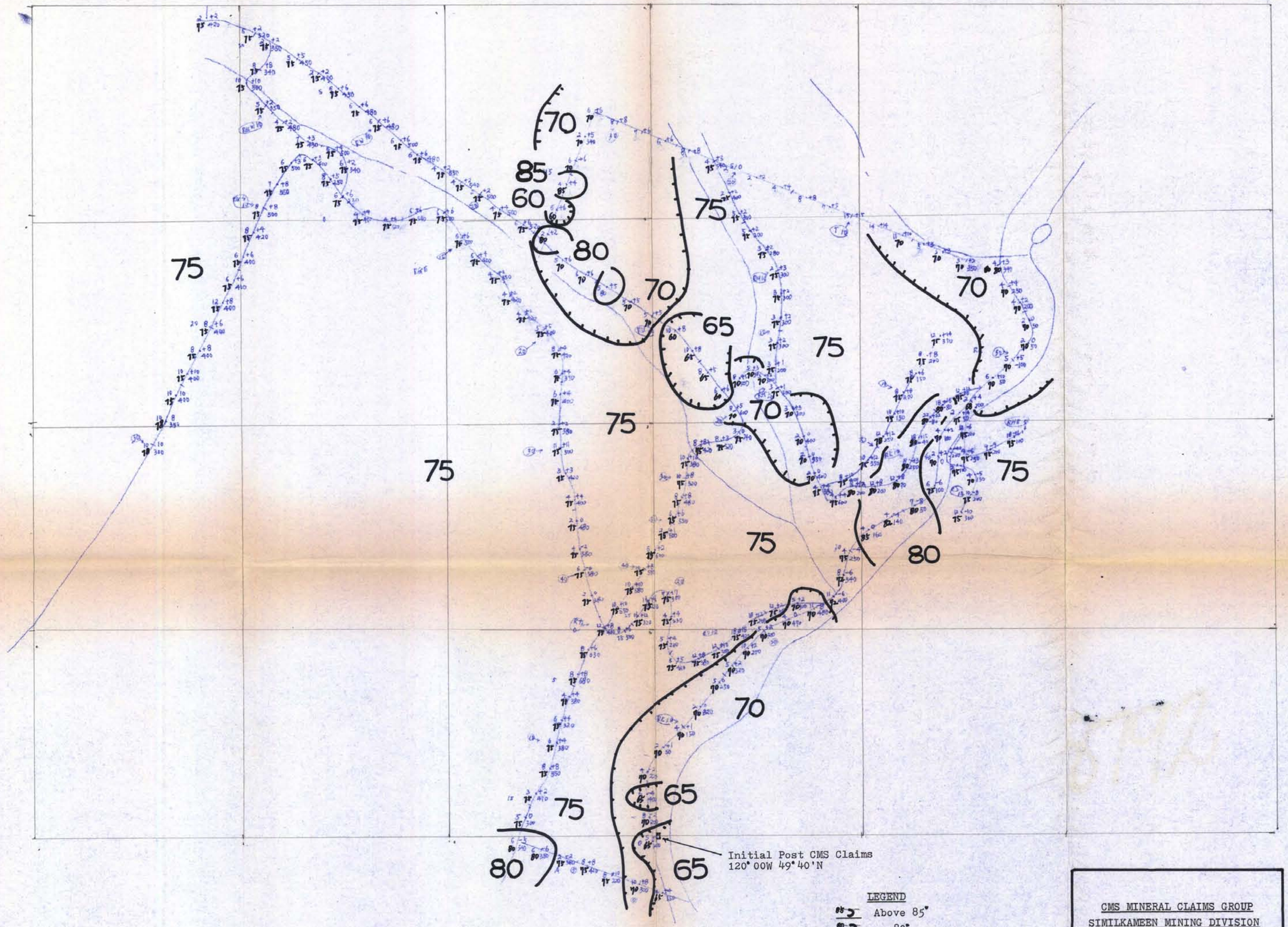
CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION

GEOPHYSICAL SURVEY
MAGNETOMETER

Drwn: Wm Chang
Chkd: WJW
Date:
Scale: 1" = 500'
1cm = 60M

Fig: 10

8792



LEGEND

- Above 85°
- 80°
- 75°
- 70°
- Below 65°

Readings By: Wm Chang ME

Instrument: Scintrex Scopas SE 80; Model 707011; Ser 10102

Transmitter: Jim Creek NLK 48N12, 122W55; 250 Kw; 18.6 Hz

EM Vertical Field % — EM Dip Angle
EM Apparent Compass Azimuth ° — Magnetic VF Gamma

0' 500' 1000'

CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION

GEOPHYSICAL SURVEY
EM VLF APPARENT COMPASS AZIMUTH

Drwn: Wm Chang ME
Chkd: WJW
Date:
Scale: 1 " = 500'
1cm = 60M

Fig: 11

Initial Post 120° W 4940' N
CMS Claims

LEGEND

- Above 15%
- 10 - 15%
- Below 10%

Readings: Wm Chang M.E.

Instrument: Scintrex Scopas SE80
Model 707011 Ser No 10102
Transmitter Stn: NLK Jim Creek, Wash.
48N12,122W55 250Kw

T.N. G.N. M.N. 22°

0' 500' 1000'

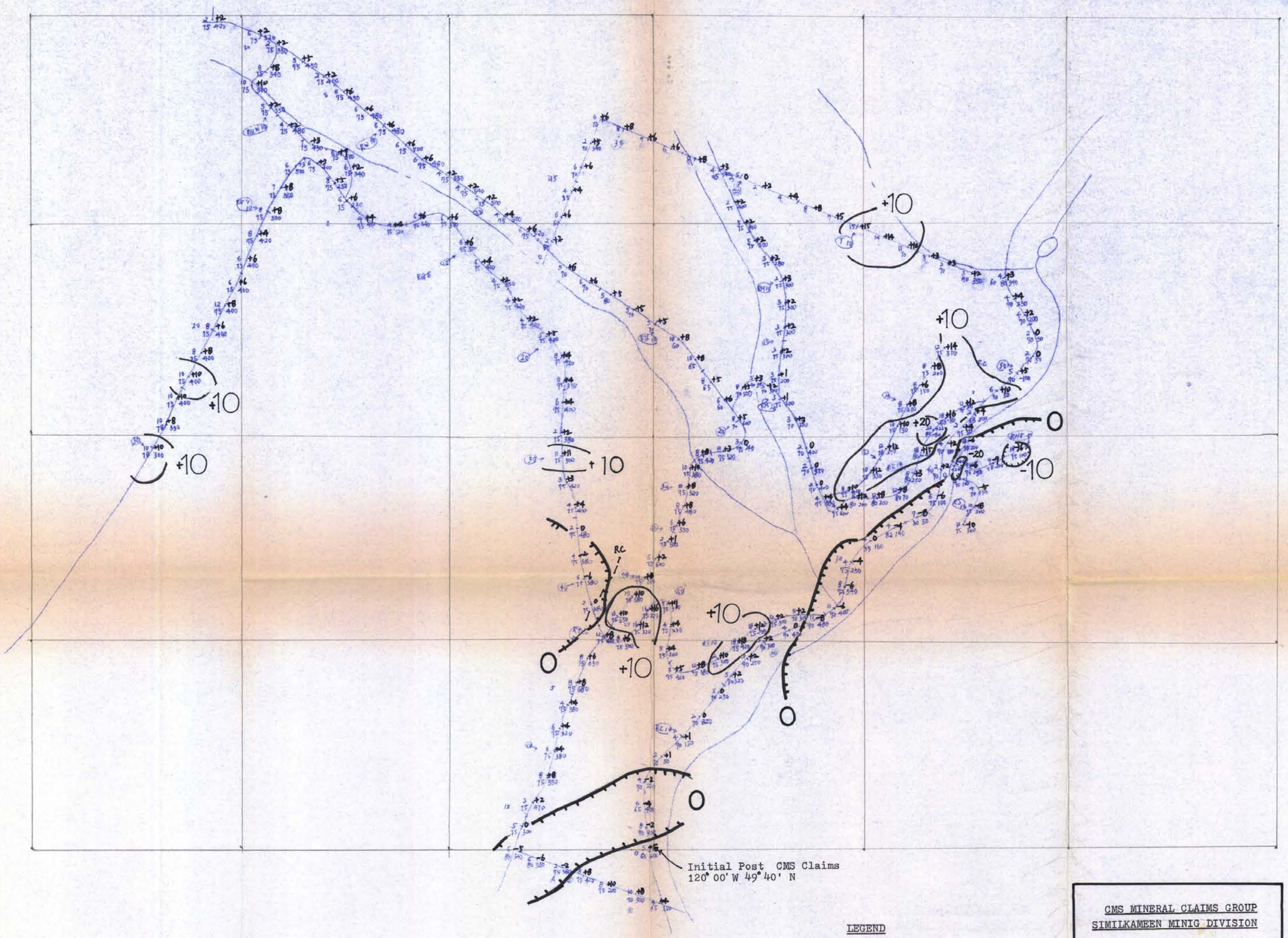
EM Vertical Field % — EM Dip Angle °
EM Apparent Compass Azimuth ° — Magnetic VP Gamma

CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION

GEOPHYSICAL SURVEY
EM VLF VERTICAL FIELD CONTOURS

Drwn: Wm Chang ME
Chkd: WJW
Date:
Scale: 1" = 500'
1cm = 60M

Fig: 12



LEGEND

+20	Above +20°
+10	+10° - +20°
	0° - +10°
0	-10° - 0°
-10	-20° - -10°
-20	Below -20°
RC	Crossover: Real Crossover at change point from + to - sign toward West on EW lines

Readings By: Wm Chang ME

Instrument: Scintrex Scopas Receiver SE 80; Model 707011; Ser 10102
Transmitter: NLK Jim Creek, Wash.

TN 0° M

11° N

20°

0' 500' 1000'

EM Vertical Field %	10	EM Dip Angle °	
EM Apparent Compass Azimuth °	50	580	Magnetic VP Gamma

CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINIG DIVISION

GEOPHYSICAL SURVEY
EM (VLF) DIP ANGLE

Drwn: Wm Chang ME
Chkd: WJW
Date:
Scale: 1" = 500'
1cm = 60M

Fig: 13

8792

CMS

CMS 1

Initial Post CMS Claims
120° 00' W 49° 40' N

LEGEND

GEOCHEMICAL

Cu Copper, Above 80 ppm

Mo Molybdenum, Above 50 ppm

GEOPHYSICAL

MH Magnetic Field, High +600 gammas

ML " " Low +200 "

EV EM VLF Vertical Field Above 15 %

EC Appr. Comp. Azimuth Above 80°

EC " " Below 65°

RC EM VLF Real Crossover

CMS MINERAL CLAIMS GROUP
SIMILKAMEEN MINING DIVISION

COMPOSITE
GEOCHEMICAL - GEOPHYSICAL
ANOMALIES

Drwn: Wm Chang ME
Chkd: WJW
Date:
Scale: 1" = 500'
1cm = 60M

Fig. 14

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