

926/12W

RUDY C. RIEPE

4803

ASSESSMENT REPORT

AERIAL AND GROUND GEOPHYSICAL - GEOCHEMICAL - GEOLOGICAL

SURVEYS OF THE

M.C. 1 - 5 and RUBI MINERAL CLAIMS

SECHELT - HALF MOON BAY AREA

VANCOUVER MINING DIVISION

BRITISH COLUMBIA

Latitude: 49° 36' North: Longitude: 123° 33' West
Aerial Geophysical Surveys By: Waterton Airex Ltd.
Ground Geophysical Surveys By: Wm Chang M.Sc. Geophysics
Geochemical Surveys By: Weymark Engineering Ltd
Geological Surveys By: William J. Weymark P. Eng.
Geophysical - Geochemical Interpretations By:
Wm Chang M. Sc. McGill
William J. Weymark P. Eng.

4803



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SECHELT - HALF MOON BAY AREA

VANCOUVER MINING DIVISION

BRITISH COLUMBIA

Latitude: 49° 36' North: Longitude: 123° 53' West

Aerial Geophysical Surveys By: Waterton Airex Ltd. Sidney B.C.

Ground Geophysical Surveys By: Wm. Chang M. Sc. Geophysics

Geochemical Surveys By: Weymark Engineering Ltd.

Geochemical Analysis By: Barringer Research Ltd.

Geological Surveys By: William J. Weymark P. Eng.

Geophysical - Geochemical Interpretation By:-

Wm Chang M. Sc. Geophysics McGill

William J. Weymark, P. Eng.

14th December 1973

Department of

Mines and Petroleum Resources

ASSESSMENT REPORT

NO.

4803

MAP

RUDY C. RIEPE

ASSESSMENT REPORT

AERIAL AND GROUND GEOPHYSICAL - GEOCHEMICAL - GEOLOGICAL

SURVEYS OF THE

M.C. 1 - 5 and RUBI MINERAL CLAIMS

SECHELT - HALF MOON BAY AREA

VANCOUVER MINING DIVISION

BRITISH COLUMBIA

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LOCATION

RUDY C. RIEPE

M.C. 1 - 5 & RUBI CLAIMS GROUP

SECRET - HALF MOON BAY AREA

VANCOUVER MINING DIVISION

BRITISH COLUMBIA

Department of
 Mines and Technical Resources
 ACTIVITY REPORT
 NO. **4803** MAP **#1**

WEYMARK ENGINEERING LTD.

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

TELEPHONE
822-1536

14th December 1973

Mr. Rudy C. Riepe
8744 Joffre Avenue
Burnaby, British Columbia

Dear Sir:

Re: MC - Rubi Mineral Claims
Geophysical-Geochemical-Geological
Surveys, Sechelt Property
Half Moon Bay Area
Vancouver Mining Division
British Columbia

I am pleased to submit for your information this Assessment Report of the results of the Aerial and Ground Geophysical Surveys and the Geochemical and Geological Surveys conducted on the MC - Rubi Mineral Claims, Half Moon Bay-Sechelt Area, Vancouver Mining Division, British Columbia. The Aerial Geophysical Surveys were carried out by Waterton Airex Ltd., the Ground Surveys were conducted by Weymark Engineering Ltd. and the interpretation was by William Chang, M/Sc. Geophysics, McGill University and W. J. Weymark P. Eng.

Background technical references relating to the MC - Rubi claims include Report Dated 15th May 1973 by Weymark Engineering Ltd; Various Minister of Mines Reports, British Columbia of the Sechelt Area and W. R. Bacon's Report, Geology of Lower Jervis Inlet, Bulletin No. 39, British Columbia Department of Mines 1957.

1.0 Property: The area covered by the geo surveys involved the MC 1-5 incl; Rubi; and SUP 6718. Designation details are given in the following tabulation:

<u>Claim No.</u>	<u>Staking Date</u>	<u>Record No.</u>	<u>Record Date</u>
MC 1-5	26 Nov/ 72	22418 - 422	5 Dec./72
Rubi	7 Nov/ 73	25177	16 Nov./73
SUP 6718			

The reference Mineral Claim Map of the British Columbia Department of Mines is 92G/12W. Check surveys have not been made of the claims boundaries, tags, posts relative to conformity with the requirements of the Mineral Act of the Province of British Columbia. The SUP boundaries have been surveyed and field notes are available.

2.0 Location: The Sechelt-Half Moon Bay Claims Group is located about 7.5 miles north-easterly of Half Moon Bay, Sechelt Peninsula, The geographic reference is 49° 36' North Latitude and 123° 53' West Longitude. The Land District is Vancouver, with registry office in Vancouver and the Mining Division is Vancouver, with recording office in Vancouver, British Columbia.

Access to the claims group is ready by automobile during non winter months via improved logging roads from the paved highway at Half Moon Bay. Elevations on the claims range from 2800' to over 3300 ' above sea level. See Figures 1, 2 and 3.

3.0 Geology: The main reference to the geological characteristics are W. R. Bacon's Report " Geology of Lower Jervis Inlet", Bulletin No. 39, British Columbia, Department of Mines, 1957; Map No. 1069A, Victoria-Vancouver, 1959 compiled by H. M.A. Rice, Geological Survey of Canada, See Fig: 4.

Base formations are coast intrusions of Granodiorite, quartz diorite and related assemblages and included remnants of meta-sediments and volcanics, locally designated the Jarvis Group.

Distribution of the various rock types and formations as mapped during this survey are shown on Fig: 5

4.0 Mineral Zones and Exploration Work: The major mineralized metallic zone on the claims is located near the central part of Claim M. C. 2. A sample returned the following : -

- Gold - Trace
- Silver - 0.7 oz per ton
- Iron - 34.20%
- Copper - 0.96%

This is related to the contact between the limestone-dolomite sediments and the intrusives. Other zones have been located but their extent has not been explored.

5.0 Aerial Geophysical Surveys: An airborne geophysical survey was conducted under contract with Waterton Airex Ltd. of Sidney, British Columbia on the 30th November 1973. Flight readings were taken, see Figure 7, and consisted of combined aeromagnetic, electromagnetic and radioactivity testing.

Annex - A contains the details relating to the aircraft and the instrumentation used..

The survey covered the claims area and involved 10 runs each 16,000 feet in length. These runs were 500 feet apart and were flown to a true bearing of N10° West or alternatively South 10° East. The plane was captained by Claude Waterton VRS - 536, Senior Commercial, the co-pilot was Arnold Parlee, both of Sidney, British Columbia. The flight plan was filed with the D.O.T., Victoria, B.C. Fig: 6 shows the flight plan pattern.

Referring to Figure: 7, it will be noted that:-

- the variation in Radioactivity readings ranged from 0 to 2/100 MR?HR
- the variation in Electromagnetic readings ranged from 0 to 20 (x.1 micoramps)
- the variation in magnetometer readings varied from 22 to

to 38 (x100) gammas. Background average was set at "30" - 3000 gammas.

- for the radioactivity and electro-magnetic tests, background was dialed out.

Results: Referring to Fig: 8, it will be noted that there is a strong northwesterly trend to the electromagnetic readings, with a dominant zone in the central part of the claims, - Nos 2,3 4 and #5. Referring to Fig: 13, this coincides with the those portrayed by the ground surveys. It will also be noted that the low magnetic zones appear to the eastern sections of Claims No. 5 and the western bounds of Claims Nos 1, 2,3-4 . The High Magnetometer zone coincides with the intrusives as depicted on Fig: 5. Radioactivity is not as significant as measured over the claims area.

Conclusions; The areas depicting anomalous zones of interest are those coincident with the low magnetometer and High EM on M.C. Claim No. 1; M.C. Nos. 2-3; the boundary zone of claims M.C. 3 and 4 and the eastern sections of Claims Nos 4 - 5.. The High EM zone covering the sulphide mineralized on Claim No. M.C. # 2 is of particular significance.

6.0 Ground Geophysical Surveys; Ground EM and Magnetometer tests were made of the claims area. For the EM Geophysical, a Scintrex Scopas Instrument, Serial No. 101023, SE, 80 Model 707022 was used with the reference transmitting station - Jim Creek, Washington, U.S.A. 48N12; 121W55; 18.6 KHZ; 250 KW. Details of the instrument are given in Annex - C.

The readings for the EM Survey are given on Figs:10, 11 and 12 together with the contoured interpretations, viz:-

- Fig: 10 - EM Azimuth Contour Map
- Fig: 11 - EM Vertical Field (VLF)

For the Magnetometer tests, a McPhar M700 Flux Gate, Magnetometer, Ser No. - 7126 was used. Reference station 0 + 00 N and 0 + 00 East which was set at 200 gammas. The readings are given on Fig: 0 as well as the interpretation.

Wm Chang M. Sc. Geophysics McGill University conducted the EM and Magnetometer Field Surveys. Interpretation was by Wm Chang M. Sc. and W. J. Weymark P. Eng.

A composite plot of the anomalous zones as interpreted for the EM and Magnetometer Surveys as well as for the Geochemical is given on Fig: 14. To be noted thereon High EM and Magnetometer zones persist in the 0+00 - 20+00N - 5+00 through 5+00 - 10+00 West. This correlates with the location of the out-cropping copper sulphide zone. The low magnetics are in the southern section of the survey area and could indicate non bearing magnetitic sulphide zones.

7.0 Geochemical: Also, as part of the ground phase of the investigation of the assessment of the metalliferous possibilities of the MC-Rudi Mineral Claims, a geochemical testing of the soils for copper was carried out by Weymark Engineering Ltd. Soil samples were taken every 200 feet along the axis and cross-axis lines. The record of the samples and Assay Results are given on Annex - D. Chemical Analyses were made by Core Laboratories of Vancouver. Samples were taken below the top humus layer or in the B₁ Zone. Plots of the results are given on Fig: 12.

Results: A Cumulative Frequency Plot of the results for copper was prepared on probability paper. Support mathematical calculations yielded the following : See Fig: 13

<u>Iten</u>	<u>Copper PPM</u>
Arithemtical Ave.	30.5
50% of Curve	15
Threshold 90%	50 *
Standard Deviation	46.4

* Breaking Point

Reviewing the plots on Fig: 12, it will be noted that the test areas 0+00 to 20+00N westward from 5+00W is major and lesser zones are 4+00N to 10+00N from 0+00 to 4+00West; 4+00 - 1+00S through 4+00W and 0+00. Spotzones and other trends are indicated. The High zone coincides with the copper sulphide zone.

8.0 Summary Conclusions:

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

1. There is a coincidence of the aerial and ground geophysical anomalous zones with the located copper bearing sulphide zone. The magnitude portrayed is of signicance.
2. There is a general trend similiarity between the Aerial and Ground EM and Magnetometer geophysical anomalous areas.
3. The relationship between the geological-geophysical-geochemical characteristics require in detail further testing for definitive interpretation.

9.0 Recommendations:

On the bases of the results obtained from the relating Geo-cgemical, geophysical and geological surveys referred to in this report, it is considered that further field investigations are warranted. Future programmes should be directed to test the indicated anomalous zones at closer intervals and the sub-surface formations should be probed to determine the extent and nature of metallic mineralization, if this is causative. Initial target areas should be along the front of the anomalous zones of M.C. Claims Nos 2,3,4. and especially in the area surrounding the located Copper Sulphide mineralized zone.

Respectfully submitted,

William J. Weymark P. Eng.

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 twenty-five years.

2. I am a practising Consulting Engineer and reside at 3310 Westmount Rd, West Vancouver, Province of British Columbia.

3. I am a member of the Association of Professional Engineers of the Province of British Columbia and also of the Consulting Engineer's Division of the Association of Professional Engineers of British Columbia.

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

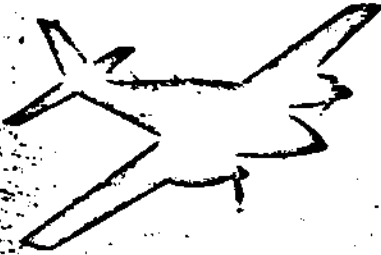
5. I have no direct or indirect interest whatsoever in the holdings of Rudy C. Riepe, or do I expect to receive any interest direct or indirect in the MC - Rubi claims.

6. The findings of the accompanying report are based on my personal knowledge of the Sechelt-Half Moon Bay MC - Rubi Mineral Claims Group, the general area and my examination of the claims and deposits and study of the geophysical, geochemical and geological field data. The geophysical readings and studies were reviewed and interpreted in conjunction with Wm. Chang M. Sc., Geophysics, McGill University, Montreal, Quebec

7. Dated at West Vancouver, British Columbia this 14th day of December 1973.

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

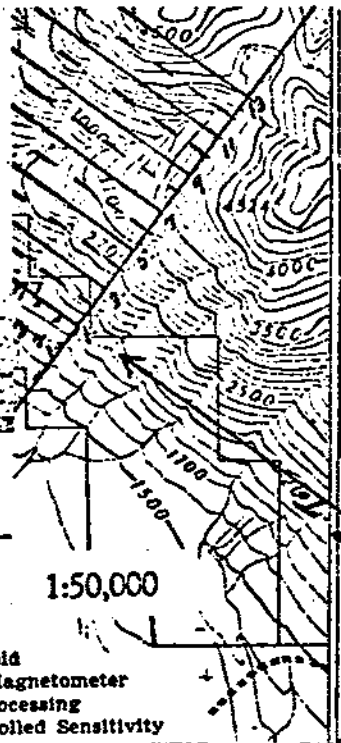
APPENDICES



WATERTON AIREX LTD.

AIRBORNE GEOPHYSICS
(Incorporated 1964)

A Patented Combined Method
Total Radioactivity
Selective Radioactive Threshold
Electromagnetic + Magnetometer
Computer Processing
Controlled Sensitivity



1:50,000

ANNEX - A

3						
2						
1	5.1	3				
	1	2	3	4	5	6



Electromagnetic unit .3 Microamp
Radioactivity unit .002 MR/HR
Magnetometer unit 510 Gammas

VICTORIA INTERNATIONAL AIRPORT

Box 2002, Sidney, B.C., Canada

Phone 656-2194

Proven in Western and Northern Canada for the highest degree of accuracy at the lowest cost. \$10. per lineal mile including base and positioning expenses on average surveys. Oil assessment in the North at \$12. per lineal mile. A 400 square mile area at 1,000 foot spacing would cost \$20,000, and could be completed in three weeks. This should put your ground party a year or more ahead in their exploration program.

By the use of this combination method 80% of the unproductive anomalies can be calculated out of the survey which results in keeping the ground follow up costs to a minimum.

- Electromagnetics:** Waterton quadrature system.
Trans. on 1,000 CPS. Receive in units of .1 microamperes.
- Magnetometer:** Flux-gate Sharpe PMF-3 or McPhar M700, or Proton, GeoMetrics G-806. (Modified to our system.)
Receive in units of 10 to 100 Gammas.
- Radioactivity:** Detectron - DR299 24 tubes.
Receive in units of .001 MR/HR. (Total count.)
- Threshold:** Three inch crystal.
Positions 1.3 - 1.63 - 2.5 Mev.

Grid supplied in scales of 1,000 to 2,000 feet per inch, with clear overlays showing the anomalous areas.

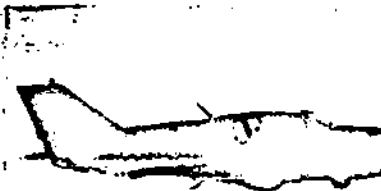
Ground checks over mountain areas have found the accuracy to be within 500 feet on a 500 foot grid.

Over 15,000 lineal miles of reconnaissance and assessment assistance completed in 40 different areas by the end of 1970.

Operation range up to 400 miles from base.

Aircraft type: Viking 300 - Twin Comanche.

Computer processing available.





ANNEX - D
 ASSAYERS
 CHEMISTS
 GEOCHEMISTS

CORE LABORATORIES LTD.

325 Howe Street Vancouver 1, B.C. Phone 688-3504

Certificate of Analysis

REPORT NO.
 1229-30-7031

SAMPLE(S) FROM: WEYMARK ENGINEERING
 1063 Balfour St.,
 Vancouver, B.C.

SAMPLE NO.	Cu=(ppm)
B 25	9
B 25 Rock	8
B 150 Rock	11
B 225 Rock	70
B 375 Rock	48
B 150 B	10
B 175 B	7
B 275 B	42
B 50 B Drift	19
B 200 B Drift	11
B 125 Silt	12
B 175 Silt Creek	13
B 75 C	8
B 100 C	8
B 125 C	18
B 250 C	59
B 300 C	23
B 325 C	16
B 350 C	18
B 375 C	120
TA 800 B	76
TA 40W Rock from dyke	22
TA 800 Rock	24
TA 25W B	15
TA 600W B	22
TA 1200W B	15
TA 1000W	27
TA 1400W	10
TA 1400 Silt Creek	180
B 40S B	29
B 60S B	14
B 100S B	25
B 1400S B	15
B 1600S B	7
B 1800S B	9

DATE 14 December 1973

SIGNED 



ASSAYERS
CHEMISTS
GEOCHEMISTS

CORE LABORATORIES LTD.

325 Howe Street Vancouver 1, B.C. Phone 688-3504

Certificate of Analysis

REPORT NO.
1229-30-7031

SAMPLE(S) FROM: WEYMARK ENGINEERING (Page 2)

SAMPLE NO.	Cu (ppm)
B 2200 S	41
B 2400 S B	22
B 3000 S B	12
B 3200 S B	13
B 3400 S B	25
B 3600 S B	32
B 3800 S B	20
B 4000 S B	13
B 4200 S B	15
B 4600 S B	14
B 4800 S B	13
B 5000 B B	19
B 1200 S	8
B 80 S Rock	46
B 1660 S Rock	31
B 2000 S C	13
B 2800 S C	18
B 4400 S C	60
B 2600 S Silt	24
B 1200 S Silt Creek	20
B 3450 S Silt Creek	23
300W-B-460 S B	32
B O	34
BA 1S	33
BA 3S B	16
BA 250S B	No sample
BA 500S B	No sample
BA 2000S B	18
BA 250N B	19
BA 500N A	21
BA 4S Rock	41
BA 6S Rock	102
BA 1000N	No sample
BA 1250N Rock	30
BA 1750 N C	66

DATE 14 December 1973

SIGNED 



ASSAYERS
CHEMISTS
GEOCHEMISTS

CORE LABORATORIES LTD.

325 Howe Street Vancouver 1, B.C. Phone 688-3504

Certificate of Analysis

REPORT NO.
1229-30-7031

SAMPLE(S) FROM: WEYMARK ENGINEERING (Page 3)

SAMPLE NO.	Cu (ppm)
BA 2250N Rock	30
BA 2400N Rock C	17
BA No. 5 S	21
BE 1N	24
BE 2N B	25
BE 4N B	13
BE 5 N B	10
BW 1N	No sample
BW 2N	No sample
BW 4N	15
BA 750S B	10
BA 1000S B	8
BA 1250S B	9
BA 1500S	No sample
BA 1750S B	9
BA 750N	5
BA 1500N C Rock	32
BA 1850N Rock	30
BA 2000N C	24
BE 3N B	22
EB 250N B & C	10
EB 250S B	17
EB 500 B	13
EB 1000N Rock	160
EB 1000S B	38
EB 500N B	30
EB 750N C Rock	74
EB 750S B	16
EB 1250N C	29
EB 1250S B	27
EB 1500S B	32
EB 1500 S Rock Dolomite	41
EB 1500N C	32
EB 1600N Rock	420
EB 1750S B	33

DATE 14 December 1973

SIGNED 



ASSAYERS
CHEMISTS
GEOCHEMISTS

CORE LABORATORIES LTD.


325 Howe Street Vancouver 1, B.C. Phone 688-3504

Certificate of Analysis

REPORT NO.
1229-30-7031

SAMPLE(S) FROM: WEYMARK ENGINEERING (Page 4)

SAMPLE NO.	Cu (ppm)
EB 1750N B & C	39
EB 1750N Rock	20
EB 2000S ?	12
EB-BA 2000S	62
BB 2250N No sample Slough	27

DATE 14 December 1973 SIGNED 

ANNEX - E

COST DISTRIBUTION

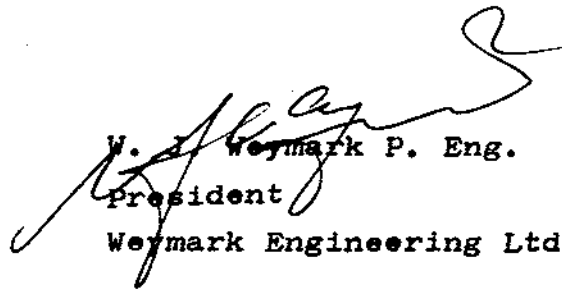
1. Waterton Airex Ltd., Aerial Surveys \$470.00
2. Core Laboratories Ltd. , Analyses 139.00
3. Instrument Rentals (Geophysical) 150.00
4. Weymark Engineering Ltd.

Field Surveys - geological - geochemical
geophysical data procurement

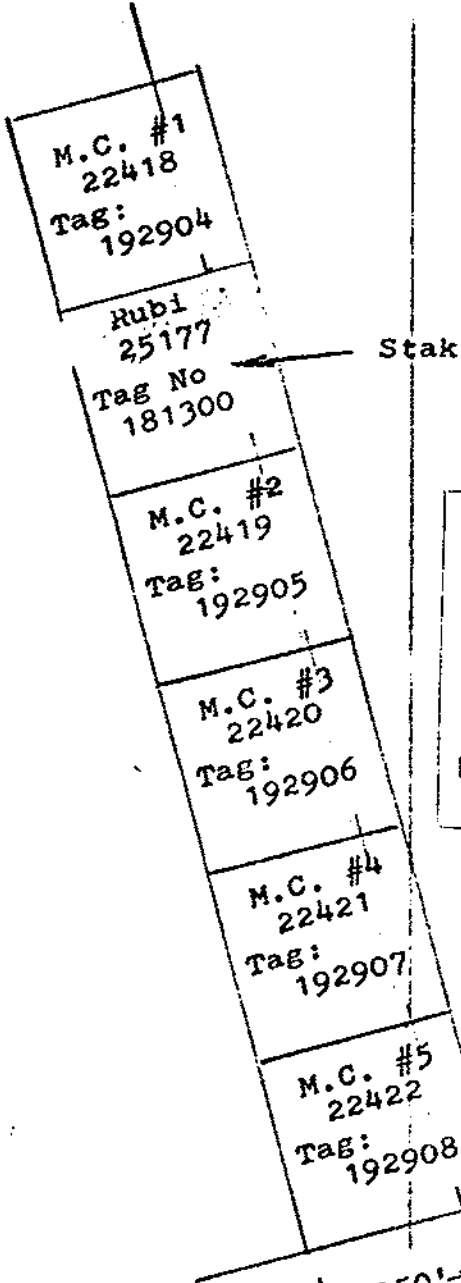
Office - Collation - compilation - assembly
plotting , fairdrawing and intepretation
of data and preparation of Report

..... \$1800.00

Total \$2,559.00


W. J. Weymark P. Eng.
President
Weymark Engineering Ltd

ILLUSTRATIONS



L 2543
TL 8843^P

Staking Line - N15° West

Department of
 Mines and Petroleum Resources
 ACCESS AND REPORT
 NO. **4803** #2

To Half Moom Bay
 and HWY - 101
 approx: - 7.5 miles

Southern BDY - SUP 6718
 To Carlson Lake
 approx: 4000'

To Vancouver
 approx - 40 Miles

RUDY C. RIEPE SECHLT MINING PROPERTY	
WEYMARK ENGINEERING LTD. CONSULTING ENGINEERS WEST VANCOUVER, BRITISH COLUMBIA CANADA	
CLAIMS LOCATION VANCOUVER MINING DIVISION	
DATE 15 May 1973	SCALE: 1" = 1500'
SUBMITTED WJW	CHECKED WJW
DRAWN WJW	FILE No. Rie - 1
TRACED WJW	CONTRACT Rie - 1

Note: Location of Claims Approximate

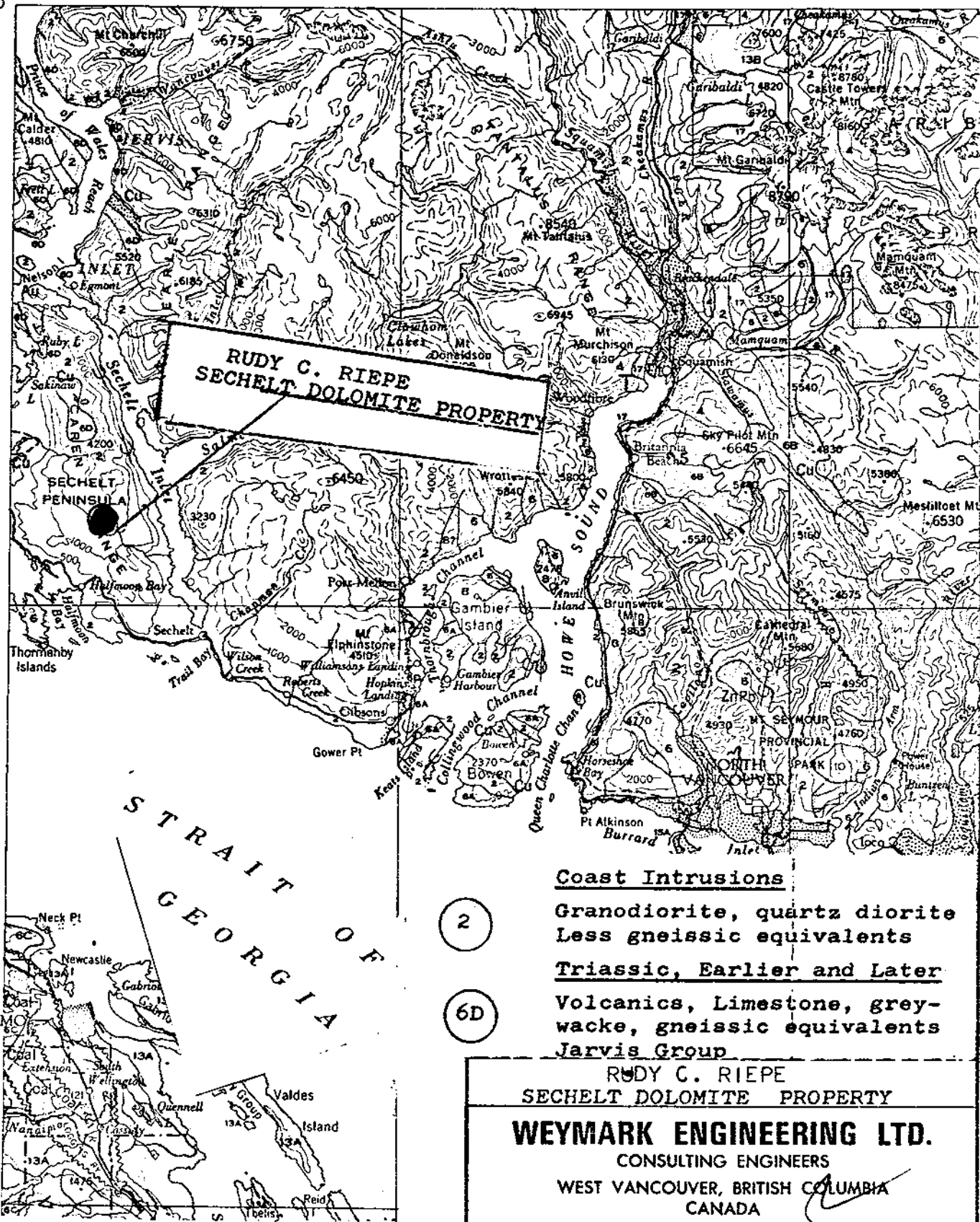
Reference Mineral Claim Map #92G/12
 Dept. Mines & Petroleum Resources
 Province of British Columbia

124°00'

30'

123°00'

50°00'



**RUDY C. RIEPE
SECHERT DOLOMITE PROPERTY**

**STRAIT OF
GEORGIA**

Coast Intrusions

2
6D

- Granodiorite, quartz diorite
Less gneissic equivalents
- Triassic, Earlier and Later
- Volcanics, Limestone, grey-
wacke, gneissic equivalents
- Jarvis Group

**RUDY C. RIEPE
SECHERT DOLOMITE PROPERTY**

WEYMARK ENGINEERING LTD.
CONSULTING ENGINEERS
WEST VANCOUVER, BRITISH COLUMBIA
CANADA

GENERAL GEOLOGY

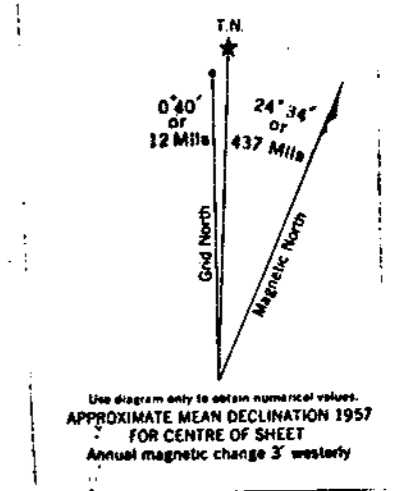
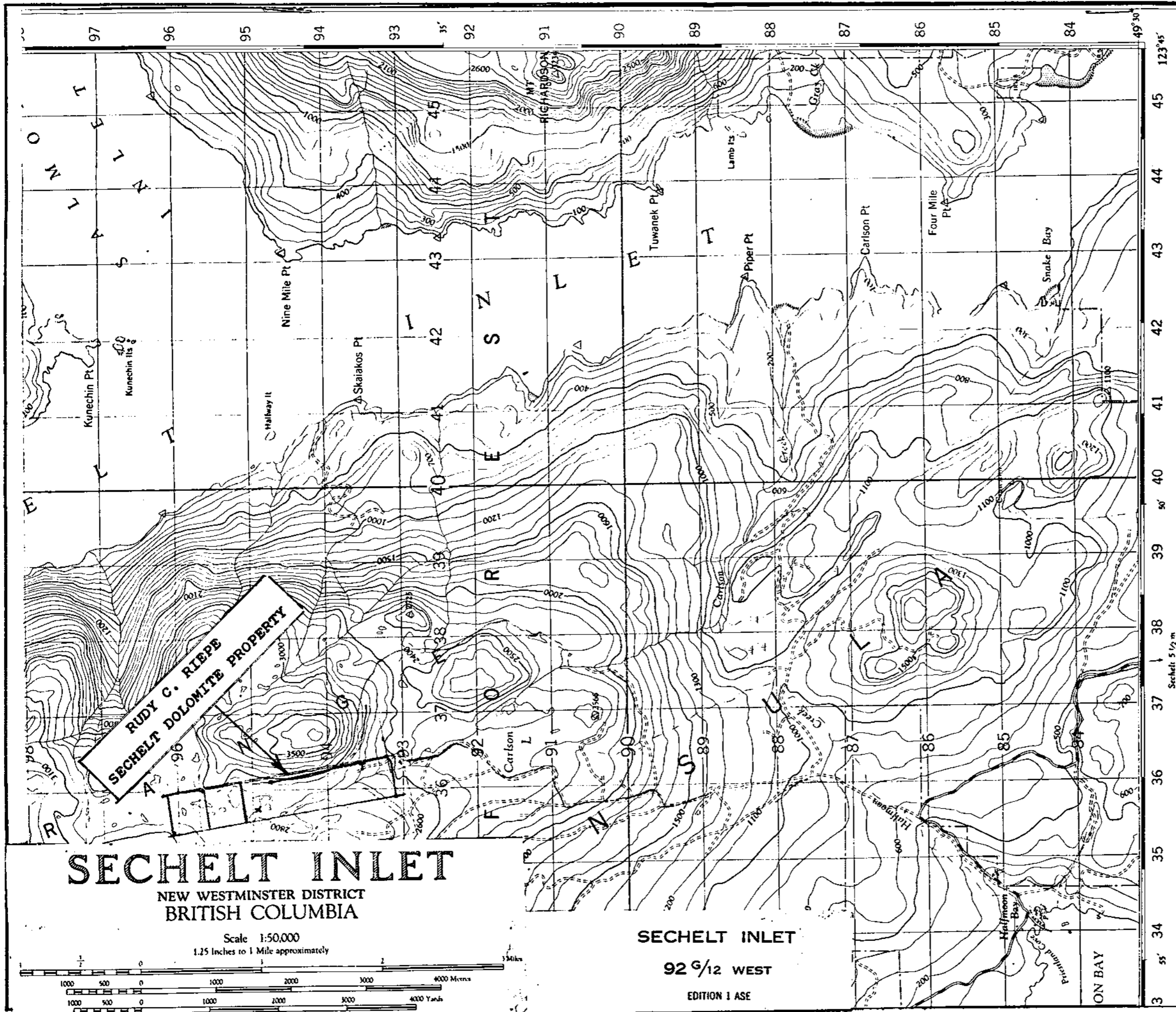
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DRAWN	WJW	FILE No. Rie - 1
TRACED	WJW	CONTRACT Rie - 1

Reference: Map 1069A - Victoria -
Vancouver, 1959; GSC

Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. 4803 MAP #4



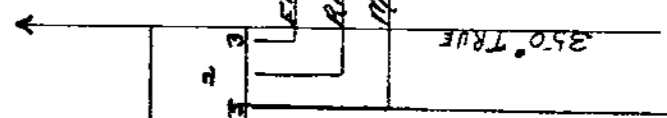
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **4803** M.P. **#3**

RUDY C. RIEPE
WEYMARK ENGINEERING LTD.
 CONSULTING ENGINEERS
 WEST VANCOUVER, BRITISH COLUMBIA
 CANADA

ACCESS & TOPOGRAPHY
 DATE **15 MAY 1975** SCALE **1:50,000**
 SUBMITTED **W.S.W.** CHECKED **W.S.W.**
 DRAWN **W.S.W.** FILE No. **Ric-1**
 TRACED **W.S.W.** CONTRACT **Ric-1**

SECHELT INLET
 92 9/12 WEST
 EDITION 1 ASE

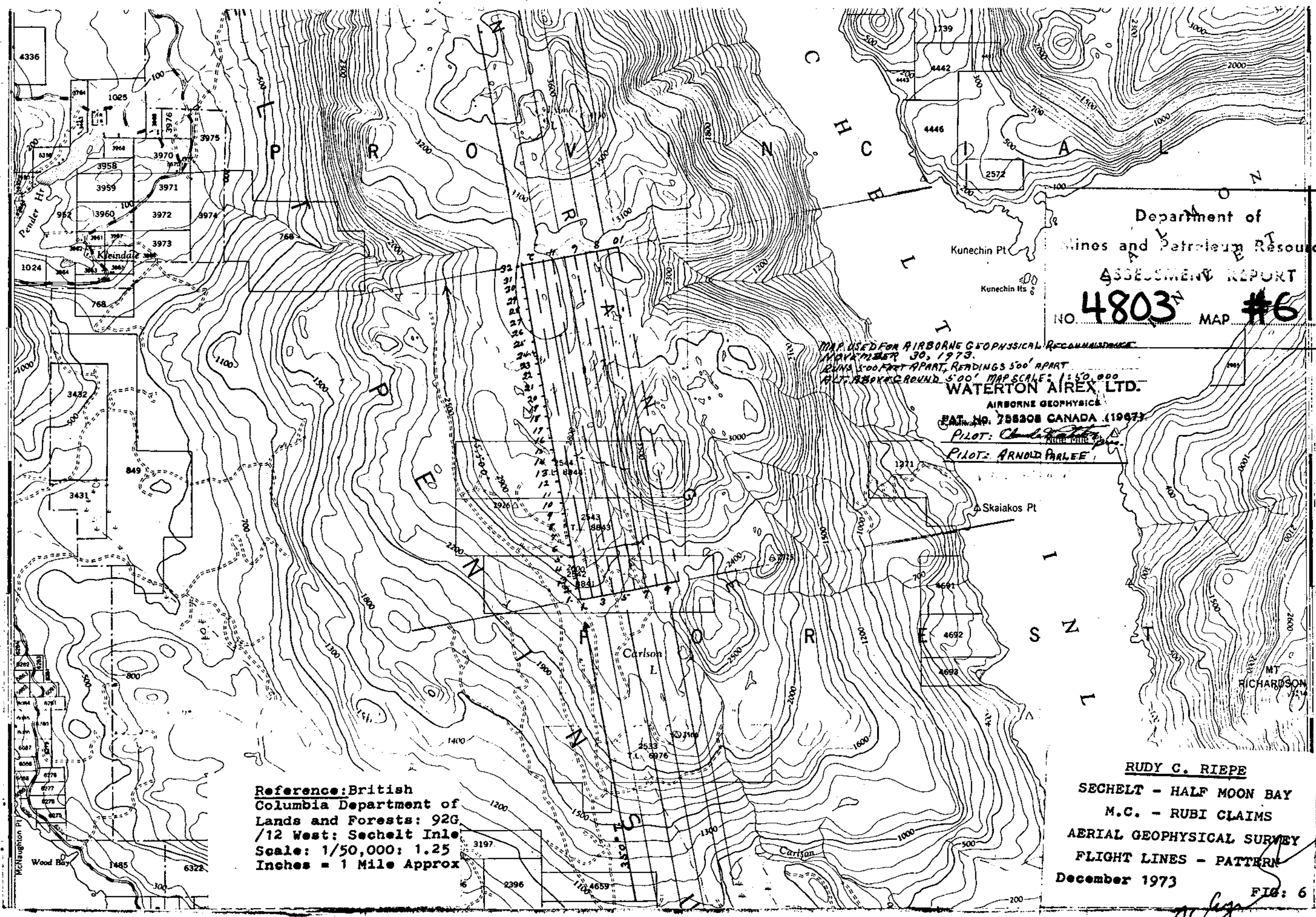
32	6 34	6 30	10 32	7 31	5 36	4 33	7 35	5 31	0 33	4
31	6 32	7 28	20 35	5 35	10 27	0 35	20 35	1 27	7 24	3
30	2 35	0 21	4 26	3 28	12 34	11 33	1 32	14 27	10 33	7
29	0 34	1 25	7 30	8 24	8 28	5 30	2 28	3 34	2 31	4
28	1 30	14 28	3 30	4 26	7 28	12 29	2 26	5 34	3 34	7
27	11 31	14 27	3 31	1 28	2 25	14 33	4 29	16 28	3 23	7
26	1 33	11 30	14 30	7 29	15 36	10 30	9 35	10 30	4 25	1
25	2 22	3 25	3 22	12 28	2 24	2 24	1 22	2 25	16 30	15
24	17 28	9 20	15 23	2 32	1 20	0 33	15 33	10 23	11 28	12
23	17 32	1 33	10 32	14 31	6 32	10 32	3 35	2 28	1 28	1
22	4 26	2 25	2 26	2 25	7 23	10 30	16 33	15 30	1 32	14
21	1 26	0 25	3 27	11 25	1 32	15 30	1 32	10 27	1 28	2
20	16 28	1 30	5 26	0 27	1 35	15 33	9 30	11 27	15 28	1
19	3 30	2 30	11 28	2 32	6 30	10 30	12 33	10 36	15 31	12
18	1 30	2 32	10 32	2 33	2 32	3 28	5 34	2 35	14 36	2
17	4 31	10 27	12 30	0 32	16 30	1 34	0 35	1 34	7 33	1
16	15 31	10 20	10 31	10 30	1 30	16 35	1 32	6 33	9 32	7
15	0 33	3 28	9 26	3 25	9 26	7 35	4 35	3 28	5 30	11
14	6 33	1 24	10 25	3 23	10 29	0 30	10 35	1 26	15 27	15
13	14 30	12 24	10 26	10 32	15 33	16 31	5 34	1 26	5 26	7
12	7 30	15 23	1 30	0 29	6 35	1 27	20 35	0 28	9 30	2
11	3 30	1 35	4 28	1 21	16 32	3 26	10 30	1 30	9 32	0
10	6 27	0 31	2 30	16 25	4 32	14 25	2 33	10 33	12 28	10
9	6 25	1 30	4 32	8 30	4 32	3 30	10 32	10 30	7 31	1
8	10 26	4 26	3 31	16 29	1 30	12 23	15 28	3 24	3 35	10
7	11 28	3 23	2 27	3 30	0 32	2 23	2 30	1 22	14 38	3
6	4 32	17 30	12 32	3 30	4 26	16 22	11 22	3 21	3 32	2
5	0 32	10 29	0 28	4 26	7 28	5 25	5 25	26 15	26 15	10
4	8 32	12 25	2 30	10 30	5 31	5 24	5 31	4 36	15 35	11
3	14 30	2 28	7 30	3 30	2 30	2 30	10 31	9 33	10 26	4
2	6 32	3 28	6 33	5 33	9 33	12 32	9 30	2 29	9 31	5
1	3 31	8 32	10 31	6 32	1 32	4 31	15 31	3 30	3 32	1



ELECTROMAGNETIC UNITS - 1. MICROAMPERES
 RADIOACTIVITY UNITS - 0.01 MR/HR.
 MAGNETIC UNITS - 100 GAMMAS
 AIRBORNE GEOPHYSICAL RECONNAISSANCE
 CARLSON LAKE B.C. NORTH 1/4, 1/4, NOV. 30, 1973
 RUNS 500' APART. READINGS 500' APART. ALL ABOVE 500'
 MAG. SET AT "30" = 3000 GAMMAS AS AVERAGE IN AREA
 GRID SCALE: ONE INCH = 1,000'
 WATERLOON AIREX LTD.
 AIRCRAFT NO. 740000
 PILOT: *Harold Pablee*
 PILOT: *Harold Pablee*

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **4803** MAP **#7**

RUDY C. RIEBE
 SECHLT - HALF MOON BAY
 M.C. - RUBI CLAIMS
 AERIAL GEOPHYSICAL SURVEY
 FLIGHT READINGS
 December 1973 FIG: 7



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **4803** MAP # **6**

MAP USED FOR AIRBORNE GEOPHYSICAL RECONNAISSANCE
 NOVEMBER 30, 1973.
 RUNS 500 FEET APART, READINGS 500' APART
 ALT. ABOVE GROUND 500' MAP SCALE: 1:50,000
WATERTON AIREX LTD.
 AIRBORNE GEOPHYSICS
 PAT. NO. 758208 CANADA (1967)
 PILOT: *Charles [unclear]*
 PILOT: **ARNOLD FARLEE**

Reference: British
 Columbia Department of
 Lands and Forests: 92G
 /12 West: Sechelt Inlet
 Scale: 1/50,000: 1.25
 Inches = 1 Mile Approx

RUDY C. RIEPE
 SECHLT - HALF MOON BAY
 M.C. - RUBI CLAIMS
 AERIAL GEOPHYSICAL SURVEY
 FLIGHT LINES - PATTERN
 December 1973

FIG: 6

[Handwritten signature]

Sulphide: Cu Fe
Showing

L 2543
TL 8843^P



Staking Line - N15° West

Schedule

A

Quartz Diorite, Granodiorite - Intrusives

Meta Volcanics - Sediments - Limestone and related

Geology By: W. J. Weymark
P. Eng.

Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. **4803** MAP # **5**

Southern Bdy - SUP 6718

To Carleton Lake
approx: 4000'

To Vancouver
approx - 40 Miles

To Half Moon Bay
and HWY - 101
approx: - 7.5 miles

Note: Location of Claims Approximate

Reference Mineral Claim Map #920/123
Dept. Mines & Petroleum Resources
Province of British Columbia

SECRET MINEING PROPERTY

WEYMARK ENGINEERING LTD.
CONSULTING ENGINEERS
WEST VANCOUVER, BRITISH COLUMBIA
CANADA

LOCAL GEOLOGY
VANCOUVER MINEING DIVISION

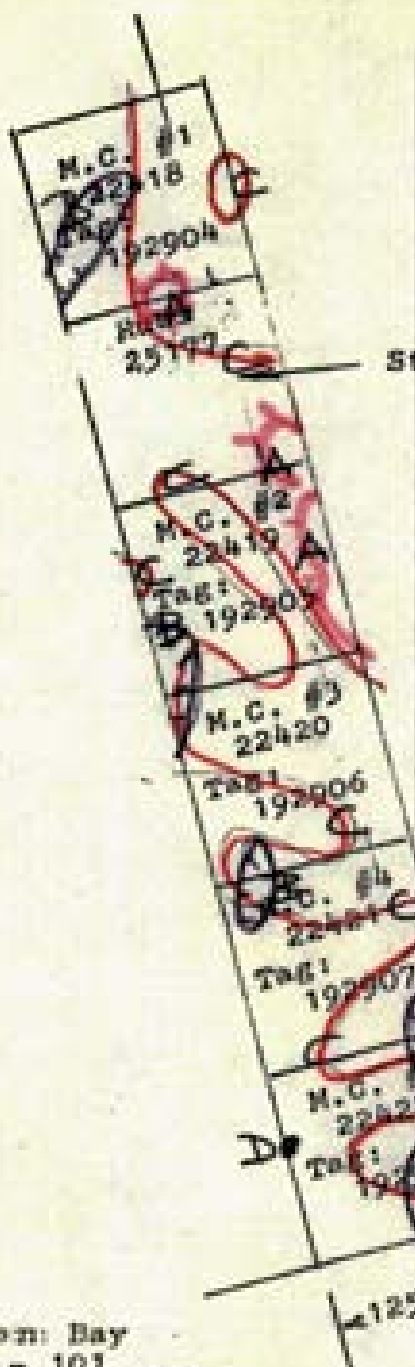
DATE 15 May 1978
SUBMITTED WJW
DRAWN WJW
TRACED WJW

SCALE: 1" = 1500'
CHECKED WJW
FILE No. R10 - 1
CONTRACT R10 - 1

PTO.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **4803** MAP **#8**



Staking Line - N15° West

L 2543
TL 8843^P

SCHEDULE

- Aerial Magnetometer
 - A Magnetic High
 - B Magnetic Low
- Aerial Electromagnetic
 - C Electromagnetic High
 - Electromagnetic Low
- Aerial Radioactivity
 - D Increased Radioactivity

Reference: See Figs: 6 & 7

To Half Moon Bay
and HWY - 101
approx: - 7.5 miles

Southern Bdy - SUP 6718

To Carlson Lake
approx: 4000'

To Vancouver
approx - 40 Miles

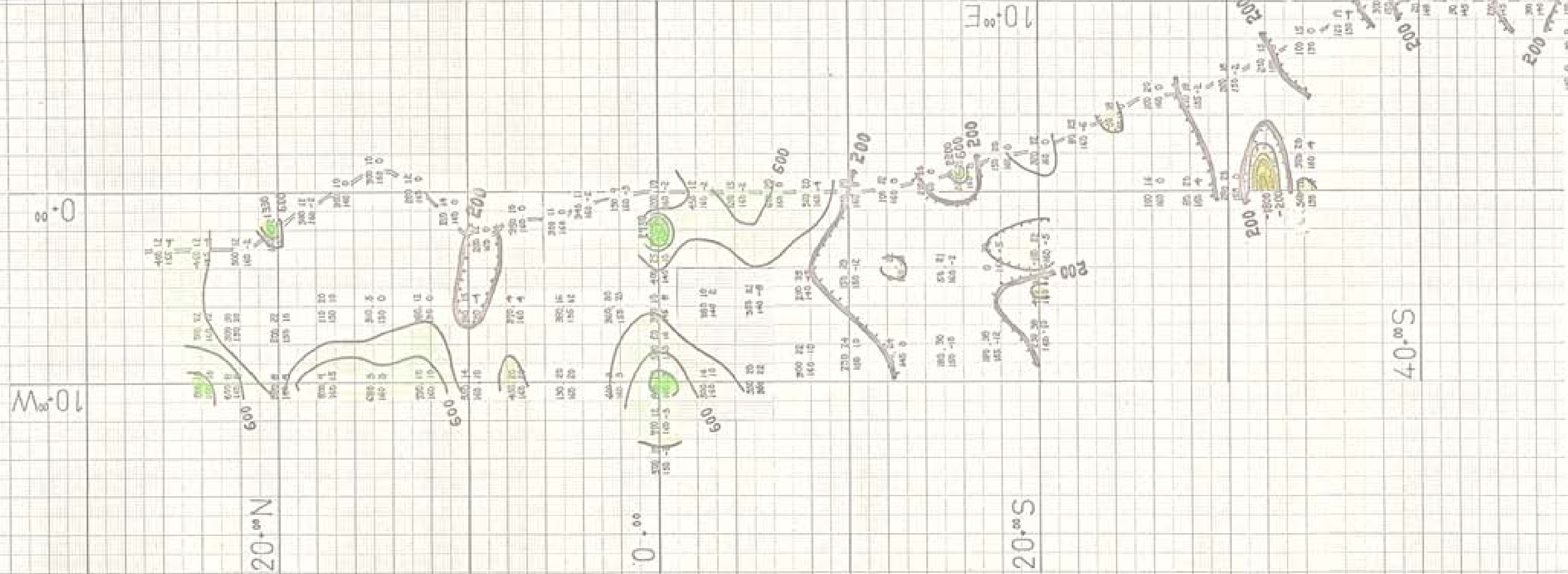
Note: Location of Claims Approximate

Reference Mineral Claim Map #920/120
Dept. Mines & Petroleum Resources
Province of British Columbia

RUDY C. HIEBE SECRET MINING PROPERTY	
WEYMARK ENGINEERING LTD. CONSULTING ENGINEERS WEST VANCOUVER, BRITISH COLUMBIA CANADA	
AERIAL GEOPHYSICAL - ANOMALIES VANCOUVER MINING DIVISION	
DATE 15 May 1972 SUBMITTED MJV DRAWN MJV TRACED MJV	SCALE: 1" = 1500' CHECKED MJV FILE No. Rio - 1 CONTRACT Rio - 1

MINST
NO. 4803

Department of
Petroleum Resources
SECRET REPORT
MAP #9



MAGNETIC CONTOUR MAP
LEGEND

- Magnetic Contours
- Interval - 200 gammas
- Above - 800 gammas
- Between - 400 - 600
- Below - (0) Zero

Differences referred to Station a 0⁰⁰ N & 0.000g set at 200 gammas

Instrument: McPhar M700 Flux Gate Magnetometer, Ser No. 7126, McPhar Geophysics Ltd., Toronto - See Annex - C.

Headline By: Wu Chang Hse.

Interpretation By: Wu Chan

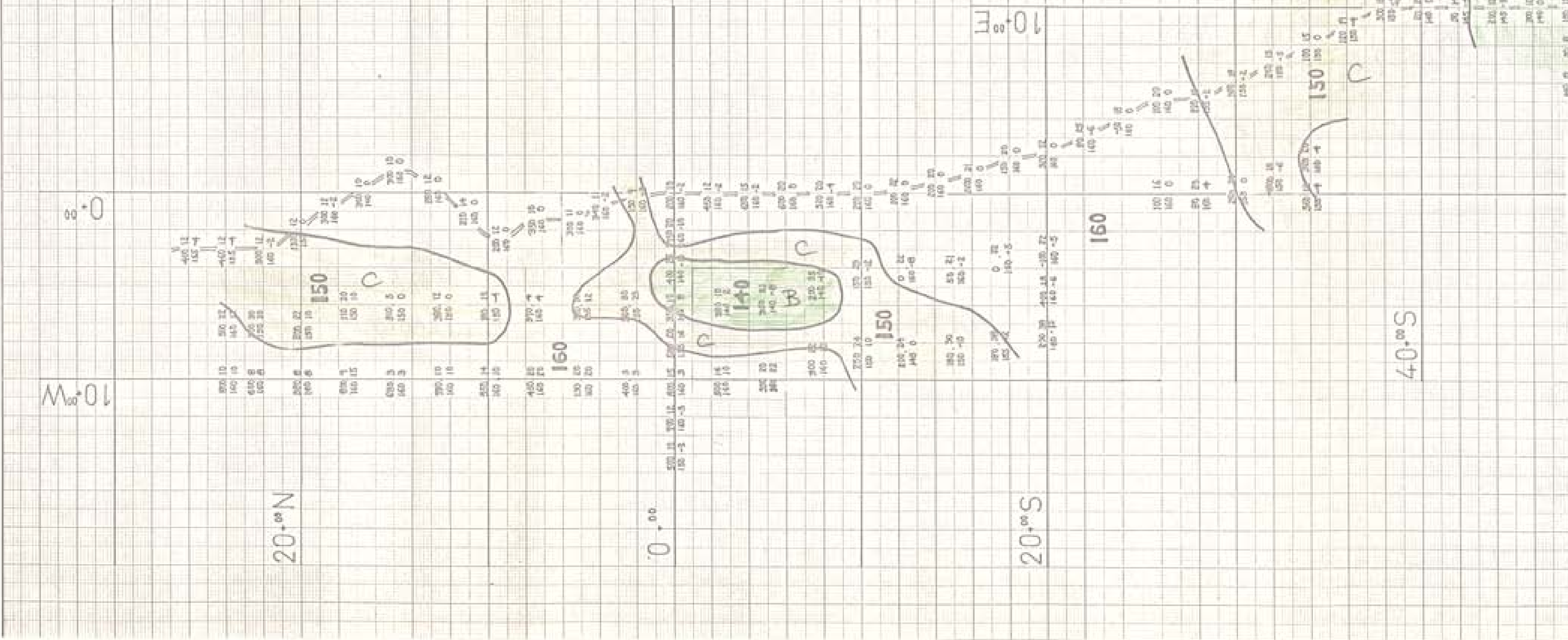
Scale: One Inch = 400'

500 - gammas - direct readings adj for latitude.

RUDY C. RIESE
SECRET- HALF MOON BAY CLAIM
VANCOUVER DISTRICT DIVISION
MAGNETIC CONTOUR MAP
December 1973 FIG: 9

Dep't
Minas
AC-16
4803

Department of
Mineral Resources
Geological Survey
MAP #10

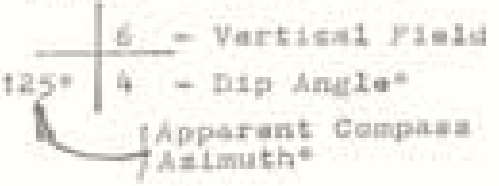


E.N. AZIMUTH CONTOUR MAP

- LEGEND**
- A — Apparent Compass Azimuth - 125°-135°
 - B — Apparent Compass Azimuth - 135°-145°
 - C — Apparent Compass Azimuth - 145°-155°
 - D — Apparent Compass Azimuth - 155°-165°

Instrument: Sointrex Scope Receiver-Se80, Model 707011 Ser No. 10102
Transmitter: VLP, Sta NLK, Jim Creek Wash., 48N12, 122W55 - 250 KV

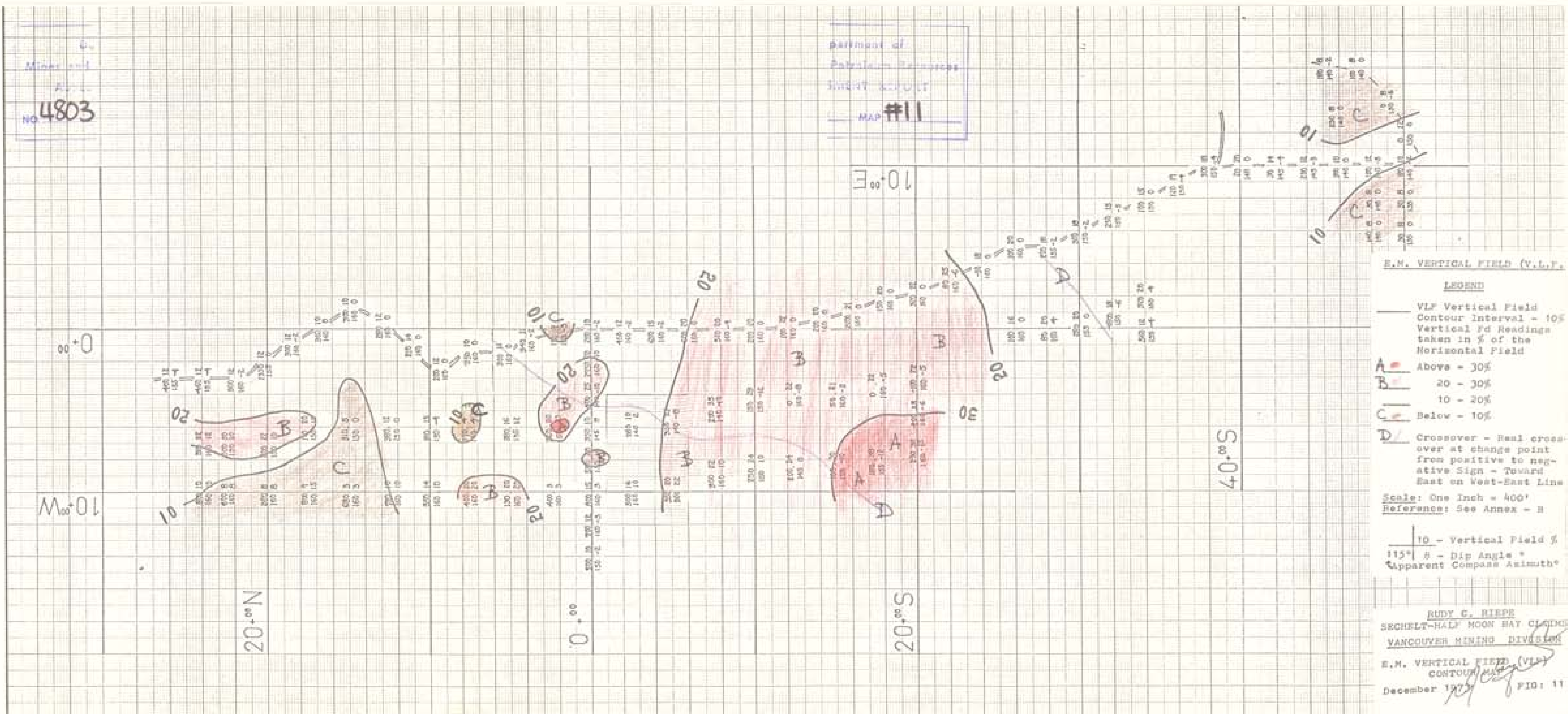
Field Readings: Wm Chang
Interpretation: Wm Chang
Reference: - Annex - B
Scale: - 1 in = 400'



RUDY C. RIEPE
SECHLT-HALF MOON BAY CLAIM
VANCOUVER DIVISION
E. N. AZIMUTH CONTOUR MAP
December 1973 FIG: 10

G.
 Miner and
 Assoc.
 No 4803

Department of
 Petroleum Resources
 INVEST REPORT
 MAP #11



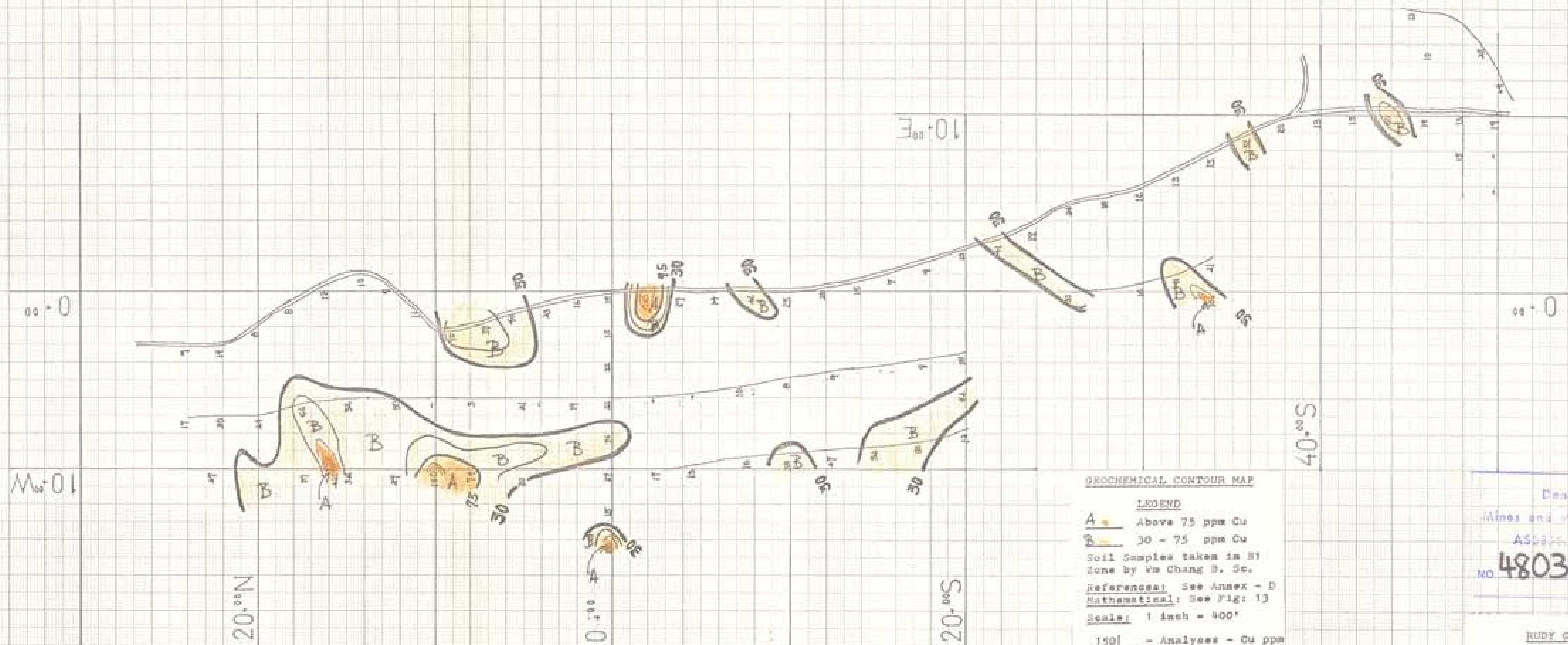
E.M. VERTICAL FIELD (V.L.F.)

LEGEND

- VLF Vertical Field Contour Interval - 10% Vertical Fd Readings taken in % of the Horizontal Field
 - A** Above - 30%
 - B** 20 - 30%
 - C** 10 - 20%
 - D** Below - 10%
 - D** Crossover - Real crossover at change point from positive to negative Sign - Toward East on West-East Line
- Scale: One Inch = 400'
 Reference: See Annex - II

10 - Vertical Field %
 115° θ - Dip Angle °
 Apparent Compass Azimuth°

RUDY C. RIERPE
 SECRETARY-HALF MOON BAY CLIMAX
 VANCOUVER MINING DIVISION
 E.M. VERTICAL FIELD (VLF)
 CONTOUR MAP
 December 1952 FIG: 11



GEOCHEMICAL CONTOUR MAP

LEGEND

A Above 75 ppm Cu

B 30 - 75 ppm Cu

Soil Samples taken in B1 Zone by Wm Chang B. Sc.

References: See Annex - D

Mathematical: See Fig: 13

Scale: 1 inch = 400'

150 - Analyses - Cu ppm

Department of
Mines and Petroleum Geology

ASSESSMENT REPORT

NO. 4803 MAP #12

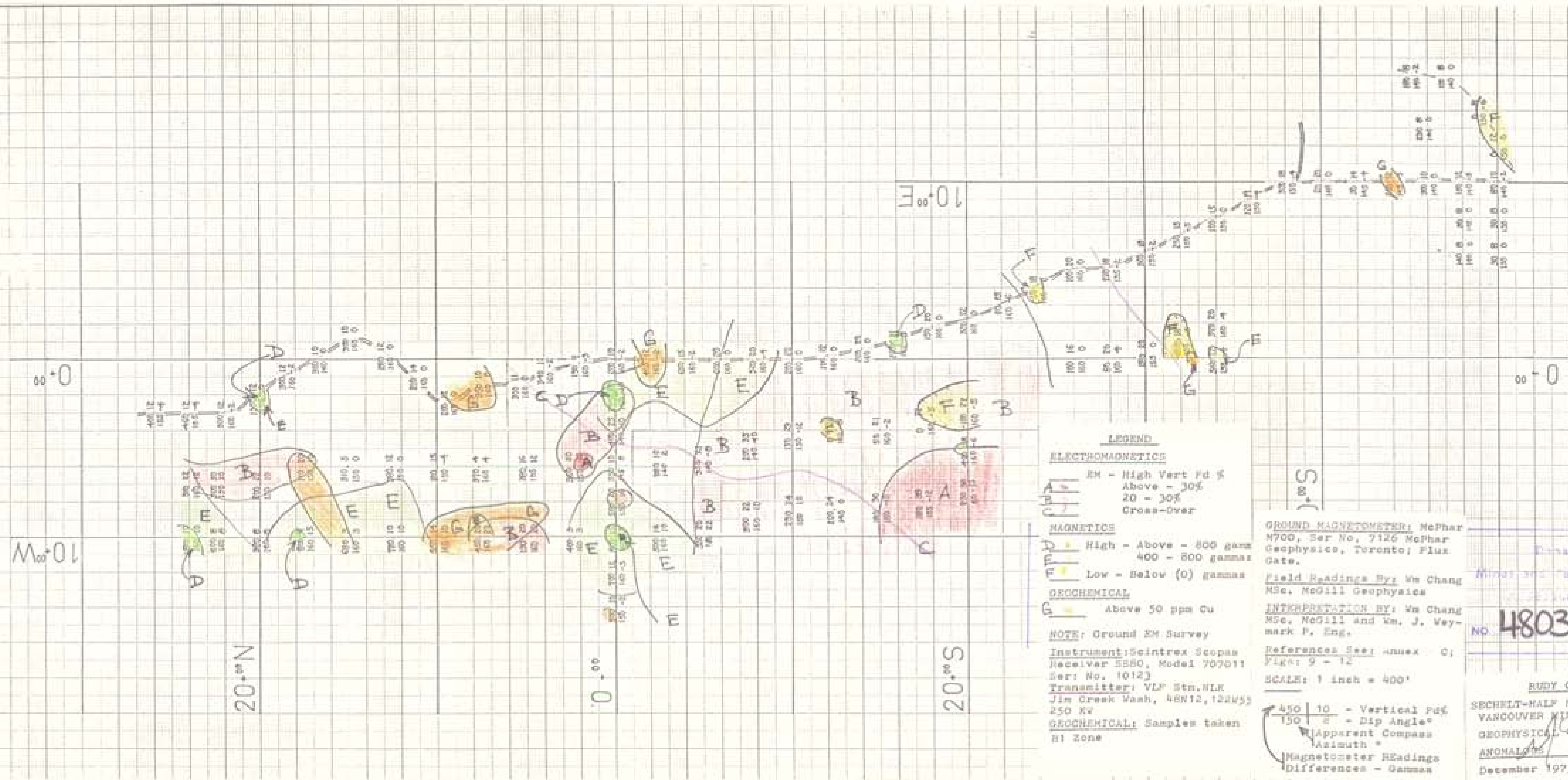
RUDY C. RIEPE

SECRETARY MRS. J. M. CLARK
VANCOUVER DIVISION

GEOCHEMICAL SAMPLING

December 1973

FIG: 12



LEGEND

ELECTROMAGNETICS

EM - High Vert Pd %
 Above - 30%
 20 - 30%
 Cross-Over

MAGNETICS

High - Above - 800 gammas
 400 - 800 gammas
 Low - Below (0) gammas

GEOCHEMICAL

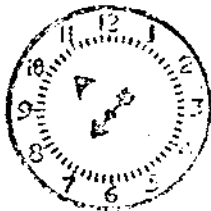
A - Above 50 ppm Cu

NOTE: Ground EM Survey
 Instrument: Scintrex Scopas Receiver 5580, Model 707011 Ser: No. 10123
 Transmitter: VLF Stn. NLR Jim Creek Wash, 48N12, 122V53 250 KV
GEOCHEMICAL: Samples taken B1 Zone

GROUND MAGNETOMETER: McPhar N700, Ser No. 7126 McPhar Geophysics, Toronto; Flux Gate.
Field Readings By: Wm Chang MSc, McGill Geophysics
INTERPRETATION BY: Wm Chang MSc, McGill and Wm. J. Veymark P. Eng.
References See: Annex C; Figs: 9 - 12
SCALE: 1 inch = 400'

450 | 10 - Vertical Pd %
 150 | 2 - Dip Angle°
 Apparent Compass Azimuth°
 Magnetometer Readings Differences - Gammas

Department of
 MINING AND TECHNICAL SERVICES
 INVESTIGATION REPORT
 NO. 4803 MAP #14
 RUDY C. RIBER
 SECRET-HALF MOON BAY CLAIMS
 VANCOUVER MINING DIVISION
 GEOPHYSICAL - GEOCHEMICAL
 ANOMALIES ZONES
 December 1973 FIG: 14



WEYMARK ENGINEERING LTD.

Consulting Engineers

3310 WESTMOUNT ROAD
WEST VANCOUVER, B.C.
CANADA

TELEPHONE
922-1536

DEPT. OF MINES
AND PETROLEUM RESOURCES

Mr. E. J. Bowles
Chief Gold Commissioner
Victoria, B.C.

25th January 1974

Mines and Petroleum Resources

ASSESSMENT REPORT

2001 NO. **4803** MAP

Dear Sir:

Re: M.C. Rubi Mineral Claims
Geological - Geochemical-Geophysical
Report #4803

Reference your letter of the 31st January 1974 about the captioned; - I submit the following:-

1. Revised Geological Map No. 5A showing the distribution of the rock types. Identification of the rock types is in accord with the referenced Bulletin No. 39, B. C. Department of Mines, Geology of Lower Jervis Inlet, British Columbia by W. R. Bacon.

The Intrusives are mainly quartz Diorite and/or granodiorite; Coast Intrusions of Jurassic (?) or later identified as (6) on Bulletin 39 accompanying map. Detailed description of these rock types is given on Pages 20 - 25 of the report.

The Meta Volcanics and Sediments are Rock Group No. 4 assigned to the Jarvis Group by Bacon. These are mainly an assemblage of Limestones and Dolomites striking Northwesterly and dipping to the East. See pages 15-17.

An outcrop map was not defined as the rock exposures are sufficient to give an extended interpretation, except in the muskeg - swampy sections, of the rock distribution.

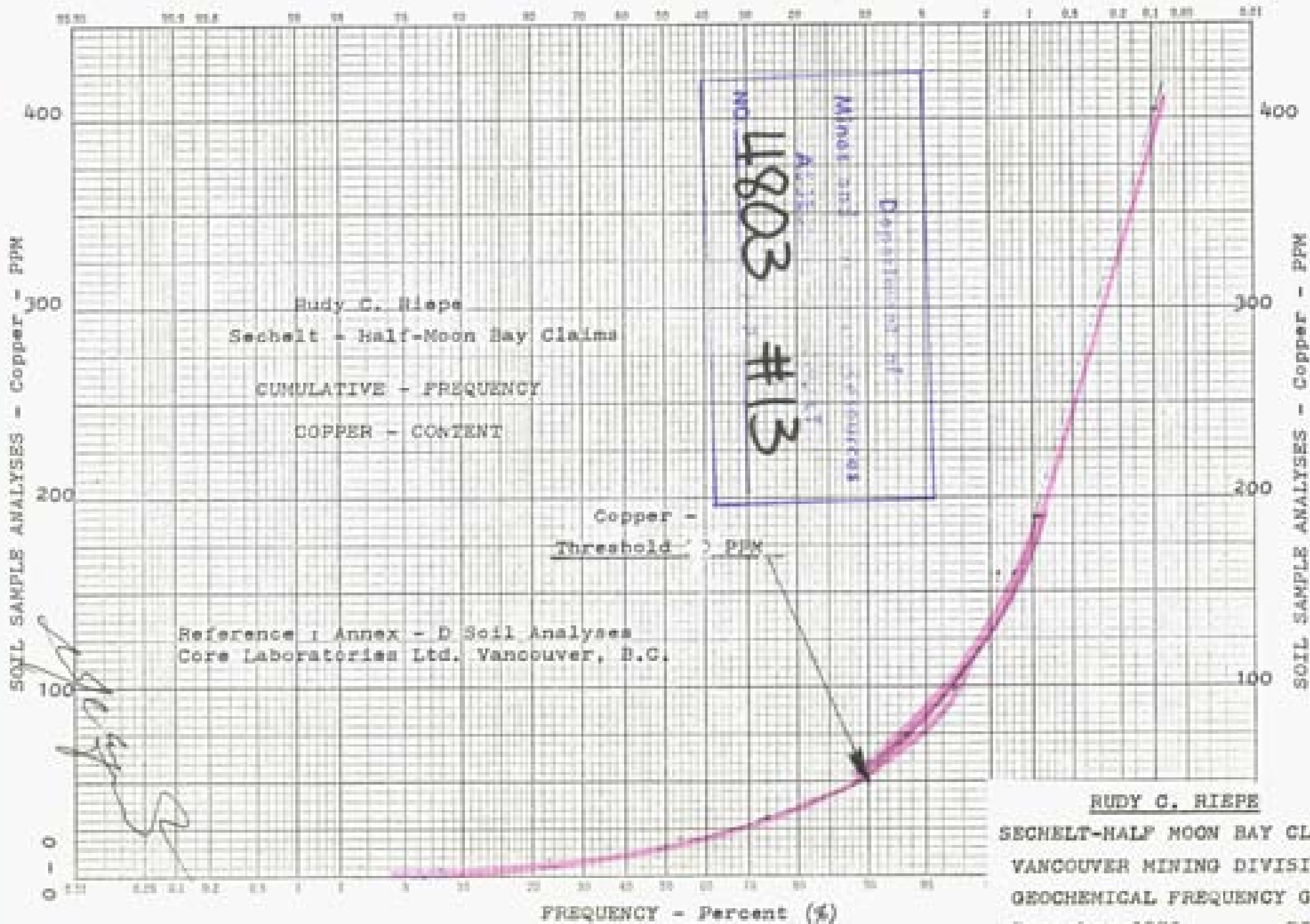
2. The location of the claims is shown on the map.
3. The Mineral occurrence is within a shearing in the sediment and extends across a weathered zone of 10+ feet and a strike of 50'. Both ends extend under swamp cover. Mineralization is mainly chalcopyrite, secondary copper mineralization, pyrite and apparent magnetite plus related.
4. The method used used by Core Laboratories for copper determination involves " Sample attacked by 1:1 HNO₃ in boiling water bath for 3 hours. Concentration is read by atomic absorption spectrography.

Should you require anything further, please advise.

Yours truly,

CC Rudy Rieppe
Enclosures: Fig: 5A


W. J. Weymark P. Eng.



SOIL SAMPLE ANALYSES - Copper - PPM



McPhar Instruments Co.
 10000 10th St. N.E.
 Seattle, Wash. 98108

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 $\pm 100,000$ 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

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.)

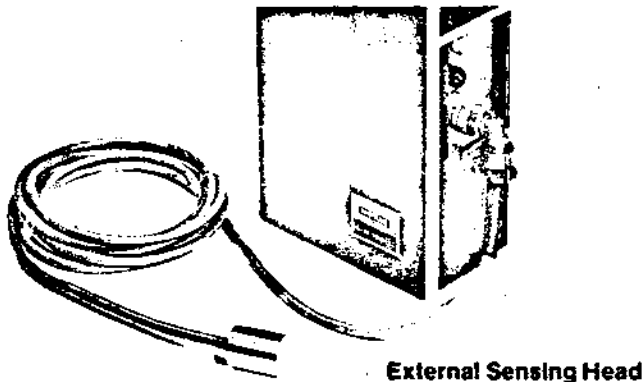
Weight

6½ pounds (3 kg.), less batteries and carrying case
 8 pounds (3.8 kg.) with batteries

Batteries

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

Accessories for the M700 Magnetometer



External Sensing Head

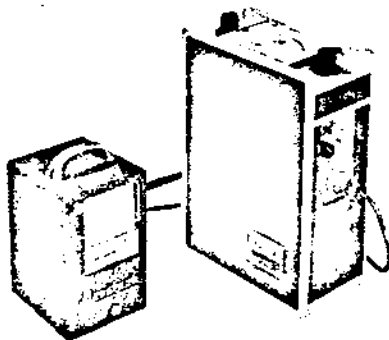
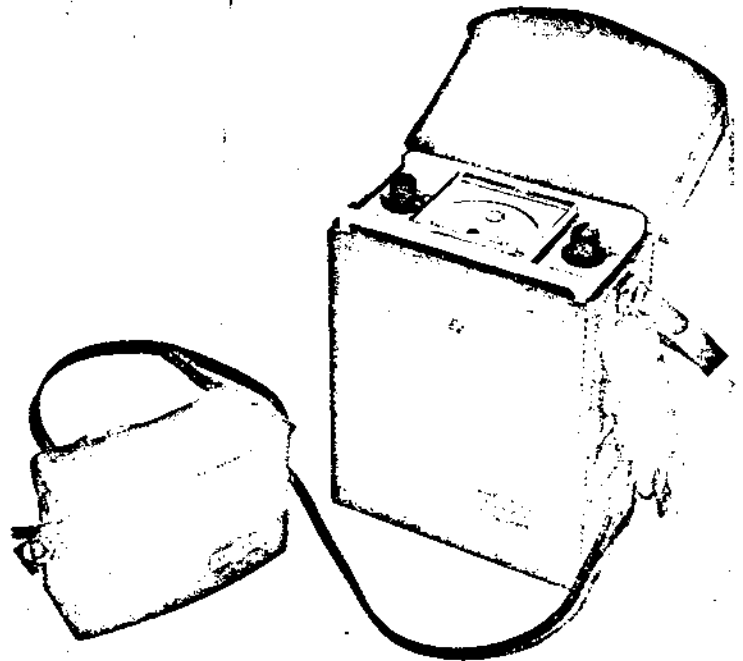


Chart Recorder



External Battery Pack

Side accessory socket allows use of:

- external battery pack**
- chart recorder**
- external sensing head**
- horizontal sensing head**

Accessory socket is located in the side panel of the M700 along with the latitude adjustment control and accessory switch. It allows the use of various pieces of equipment that extend the range of this instrument.

External Battery Pack For below freezing operation the internal batteries are removed and the external battery pack used. It is carried under the operator's clothing to prevent battery freezing. An alternate external battery pack is available consisting of 12 "C" size flashlight batteries.

Chart Recorder For long term base station monitoring an external heavy duty battery pack and chart recorder can be attached to the M700. Any current type recorder with a sensitivity of one milliamperere for full scale deflection or any potential type recorder with a sensitivity of one volt for full scale deflection can be used with the magnetometer.

External Sensing Head An external sensing head can be used on the M700 without modification to the instrument. The sensing head plugs into the accessory socket.

McPhar Geophysics Instrument Sales Offices

Canada

McPhar Geophysics Ltd.
139 Bond Street, Don Mills, Ontario
Tel.: (416) 449-5551

811 — 837 W. Hastings Street, Vancouver, B.C.
Tel.: (604) 685-3613

Singapore

McPhar (Asia) Pte. Ltd.
51 Kallang Place, Singapore 12
Tel.: 530311

Australia

McPhar Geophysics Pty. Ltd.
50 Mary Street, Unley 506, S. Australia
Tel.: 72-2133

28 Nicholson Road, Subiaco, W.A. 6008
Tel.: 841-4955

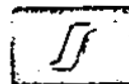
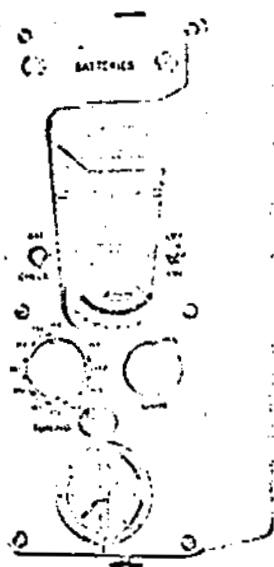
63 Alexander Street, Manly 2095, N.S.W.
Tel.: 977-4192

United States

McPhar Geophysics Inc.
818 W. Miracle Mile, Tucson, Arizona 85705
Tel.: (602) 624-2588

Philippines

McPhar Geoservices (Philippines) Inc.
P.O. Box 3279, Manila
Tel.: 50-53-06



SCINTREX

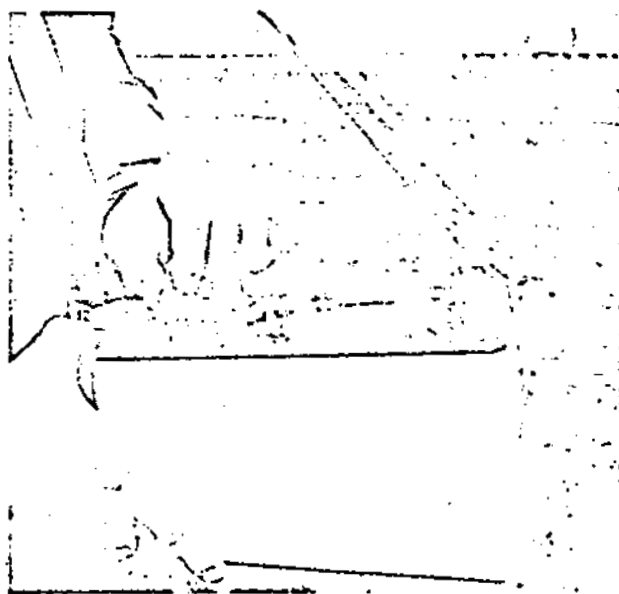
SCOPAS^{*}

VLF
Radio Stations
15 to 25 kHz
Range

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, ampli-

tude 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.



**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.

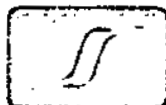
Normal Reading Accuracy: Amplitude $\pm 2\%$.
Azimuth $\pm 2^\circ$.
Dip $\pm 1^\circ$. — Dependent on signal strength.

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

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.

To Wit:

Department of
Aerial Geophysical and Ground
Geological-Geochemical-Geophysical
Surveys on behalf of Rudy C. Riepe of the MC 1-5
and Rubi Mineral Claims.

NO. **4803** MAP

I, William James Weymark P. Eng., President of Weymark Engineering Ltd of 3310 Westmount Road, West Vancouver, British Columbia

of

in the Province of British Columbia, do solemnly declare that aerial geophysical and ground geological-geochemical-geophysical surveys have been conducted and completed on the M.C. 1-5 Claims Record Nos 22418 - 22 incl and the Rubi Record No 25177, Sechelt-Half Moon Bay Area, Vancouver Mining Division, British Columbia in November -December 1973 with Report issued thereon dated 17th December 1973.

The following expenses were incurred:

- 1. Waterton Airex Ltd, Aerial Surveys \$470.00
- 2. Core Laboratories Ltd, Analyses 139.00
- 3. Instrument Rentals (Geophysical) 150.00
- 4. Weymark Engineering Ltd.,-

Field Surveys, geochemical sampling, geological mapping, Magnetometer and EM geophysical Test readings, recordings, assembly, compilation, collation, plotting, fairdrawing and interpretation of field data and preparation of Report

..... \$1800.00

Total \$2,539.00

Weymark Engineering Ltd and Rudy C. Riepe provided and assisted with Navigational aids for the airborne Surveys

W. J. Weymark P. Eng.

And I make this solemn declaration conscientiously believing it to be true, and knowing that 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 Vancouver, in the
Province of British Columbia, this 20
day of December 1973, A.D.

W. J. Weymark P. Eng.
W. J. Weymark P. Eng.

Julia Surran
A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia.
SUB-MINING RECORDER

II

In the Matter of

.....

Statutory Declaration
(CANADA EVIDENCE ACT)

.....

.....

.....

.....

.....

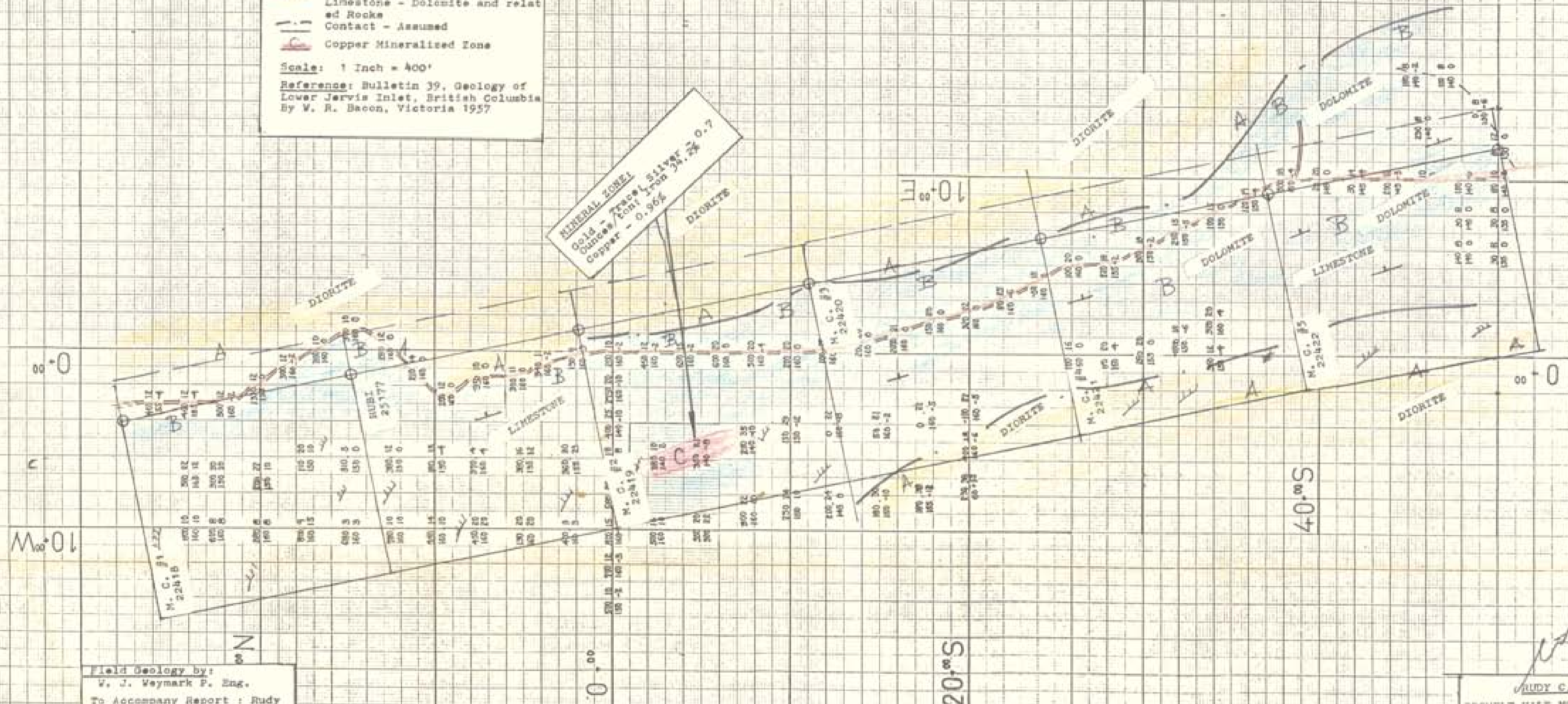
SCHEDULE

- A** Quartz Diorite - Grano-Diorite and related Intrusives
- B** Meta Volcanics and Sediments Limestone - Dolomite and related Rocks
- C** Contact - Assumed
- C** Copper Mineralized Zone

Scale: 1 Inch = 400'

Reference: Bulletin 39, Geology of Lower Jarvis Inlet, British Columbia By V. R. Bacon, Victoria 1957

MINERAL ZONE
 Gold - Trace, Silver 0.7
 Copper - 0.96%



Field Geology by:
 V. J. Weymark P. Eng.

To Accompany Report: Rudy C. Riepe, Assessment Report Aerial and Ground Geophysical-Geochemical-Geological Surveys of the M.C.1-5 and Rubi Claims, Vancouver Min-

ing Division, B. C. by Weymark Engineering Ltd, 14th December 1973

FOR DESIGNATION OF GEOPHY-
 SICAL READINGS SEE FIGS:
 9, 10, 11, 12.

RUDY C. RIEPE
 SECHLT-HALF MOON BAY CLAIMS
 VANCOUVER MINING DIVISION
 LOCAL GEOLOGY
 December 1973

FIG:5A

4803 M5A