5703

ASSESSMENT REPORT ON

EALUE LAKE PROPERTY

LIARD M. D.

LAT. 57° 30' 00"N., LONG. 129° 50' 00"W.

GEOPHYSICAL SURVEYS - E.M. & MAGNETOMETER

PERIOD: MAY 23 to 25, 1975

J. SCHUSSLER - OWNER & OPERATOR.

N.T.S. 104-H-13

Vancouver, B. C.

November 7, 1975

S. Presunka

D. H. Brown, P. Eng.

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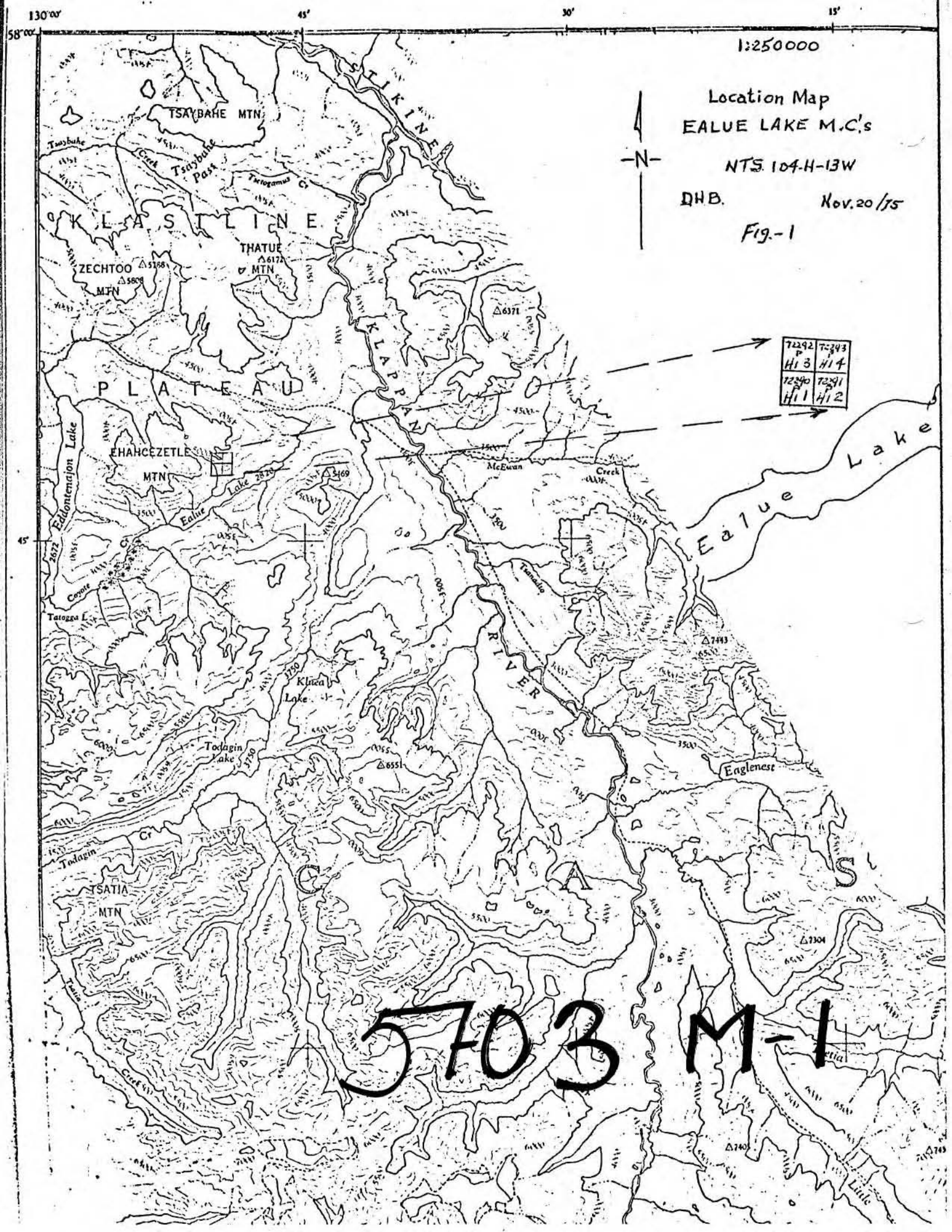
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Location Map
EALUE LAKE M.C.'s
NTS 104-H-13W
DHB. Nov. 20/75
Fig.-1
-N-
72292 H13
72293 H14
72290 H11
72291 H12
KLASTLINE
PLATEAU
TSAYBAHE MTN
Tsaybahe Creek
Tsaybahe Pass
Tatogamus Cr
THATUE MTN
ZECHTOO MTN
STIKINE
KLAPPAN
EHAHCEZETLE MTN
Eddontenajon Lake
Ealue Lake
McEwan Creek
Tatogga L.
Coyote Cr
Klutea Lake
Todagin Lake
Todagin Cr
TSATIA MTN
Eaglenest
RIVER
5703 M-1

ASSESSMENT REPORT ON
EALUE LAKE PROPERTY
LIARD M. D.
GEOPHYSICAL SURVEYS - E.M. & MAGNETOMETER
PERIOD - MAY TO , 1975

Introduction

The Ealue Lake (Hi) Property includes four located claims, Hi 1 - 4, which are recorded as the Hi Group. The present assessment report covers geophysical work carried out during the anniversary year ending November 21, 1975 on J. Schussler M.C.'s Hi 1 and Hi 2, and includes electromagnetic and magnetometer surveys conducted in the period May 23 to 25, 1975. The work was done for J. Schussler, owner and operator of the property. The purposeof the survey was to check for geophysical response, if any, over a known mineralized zone and then to locate, if possible, hidden zones.

Property Location and Access (Lat. 57° 30' 00", Long. 129° 50' 00")

The property is located on Ehahcezetle Mtn. on the Klastline Plateau, seven miles northeast of the south end of Eddontenajon Lake and one to two miles north of Ealue Lake. Elevations on the property range between 3500 and 4500 feet. The topography of the surveyed area lies on the side of a steep, south-sloping hill which is lightly forrested. The northern part of the grid has a considerable amount of outcrop. An adit is located 100 feet west of L-0 and about 300 feet north of the base line. The adit is in a copper mineralized zone.

Scope of Survey

The survey was carried out by S. Presunka, geophysical operator, and Stanley Bridcutt, helper. The magnetometer and E.M-16 surveys were run simultaneously firstly along the trail to the property. The trail followed a deep-cut stream. Two good E.M.-16 conductive zones were picked up and were found to coincide with visible copper mineralized zones. The approximate distance along the trail to the showing was 5600 feet. The conductive zones located along the trail should be further prospected.

A short east-west base line was established which extended from L-0 to L-6E. Lines were run at right angles to the base line every 200 feet. These lines were established by chain and compass. The stations were flagged every 100 feet along the lines indicating stations and their line number.

Methods of Survey

a) Ronka E.M.-16 - Principle of Operation

The VLF-radio stations designed for communications with submarines have vertical antennaes which create a concentric horizontal magnetic field around them when energized. When these magnetic fields encounter conductive bodies in the ground (through which they readily penetrate), a secondary field radiates from the latter. The Ronka E.M.-16 equipment which is simply a sensitive Very Low Frequency receiver measures the vertical components of these secondary fields.

The receiver has two receiving coils, one horizontal, and one vertical. The signal picked up by one of the coils (vertical axis) is first minimized by tilting the coil through a measured angle which is calibrated in percentages. The remaining signal in this coil is then balanced out by a measured percentage of a signal from the other coil, which is oriented at right angles to the first coil. This coil is normally kept parallel to the primary field.

Thus, if the secondary signals are small compared to the primary horizontal field, the mechanical tilt-angle is an accurate measure of the vertical real component, and the compensation $\Pi/2$ signal from the horizontal coil is a measure of the quadrature vertical signal.

The selection of the proper transmitter station is accomplished by the use of a plug-in unit in the receiver. The magnetic field lines from the station are always at right angles to the direction to the station. Therefore, a station should be selected which gives the field approximately at right angles to the main strike of the conductor or geological structure of the area presently being worked on. After the proper station has been selected the survey lines are selected at right angles to the direction of the station and hence, parallel to the magnetic field from the station.

Transmitting Station	Location	Frequency	Bearing to the Property
VLF Station N.A.A.	Cutler, Maine	17.8 k.c.	N65°W. appr.
VLF Station N.P.G.	Seattle, Wash.	18.6 k.c.	N15°W. appr.
	Baseline, Hi Group		E,-W.

b) Scintrex MF_1 Magnetometer

This is a fluxgate magnetometer with I.C. circuitry and temperature compensation of less than one gamma/° C. over the range -40°C ti + 40°C. It has a full terrestrial range of 0 - 100,000 gammas and an orientation independent internal sensor and an accuracy of ± 0.5%. The magnetometer was adjusted to read zero for background.

E.M.-16 Survey - VLF Station 18.6 - Seattle, U.S.A.

The E.M.-16 readings were taken at 50 foot intervals along the lines. Some random readings were taken (not plotted) across the showings. The readings are plotted on a scale of 1 in. to 200 feet. The in-phase results are contoured every 5%.

Only a slight N-S. striking secondary conductor was picked up between L-0 and L-2E. north of the base line. The fact that the showings on L-0 in the vicinity of the adit did not respond geophysically suggests that the mineralized zone has not sufficient depth or length to be responsive to the electromagnetic method. See Fig. 75-1.

E.M.-16 Survey - VLF Station I7.8 - Maine, U.S.A.

The in-phase results of transmissions from this station are contoured every I0%. Two weak conductive zones were picked up on L-0, one at 125 feet north and the other at 300 feet north over the adit with good mineralization showing. This E-W conductive zone has no magnetic correlation.

At 750 feet north on L-0, a weak conductive zone was picked up indicating a north trend which correlates closely with the magnetic trend. This zone should be geophysically followed up to the north and west. See Fig. 75-2.

Magnetometer Survey - Instrument: MF1 Fluxgate

The magnetometer was adjusted to read zero for background. The magnetic relief was from -270 gammas on L-2E. approximately 500 feet north to 830 gammas on L-0 at 650 feet north of the baseline. The mineralized adit area lies in a magnetic background zone. See Fig. 75-3.

Conclusions.

There was not enough area covered geophysically to indicate definite magnetic or conductive trends. The grid area should be extended to the north, west and south to determine possible conductive zones due to mineralization.

Steve Presunka

S. Presunka

A. W. Brown, P. Eng.

DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

TO WIT:

In the Matter of a GEOPHYSICAL and MAGNETOMETER Survey over Hi #2 and Hi #4 M. C.'s of the Hi Group, Ealue Lake. Lat. 57° 30' 00"N., Long. 129° 50' 00" W.

I,

of

in the Province of British Columbia, do solemnly declare that

COST STATEMENT

Personnel

May 23 - 25, 1975	S. Presunka, Geophysical Operator - 3 da. @ $150. -	$ 450.00
May 23 - 25, 1975	S. Bridcut, Geophysical Assistant - 3 da. @ $ 50. -	150.00
Equipment Rental-	Ronka E.M. 16 and M.F.1 Magnetometer 3 da.@ $ 50. -	150.00
Living Expenses	Accomodation and Meals	135.00
Transportation from Watson Lake and return (350 mi.)		137.50
	Total cost	$ 962.50

STATEMENT

May - 26 1975

Mr. John Shusler
13135 - 20th Ave.
SURREY B.C.

In a/c With PRESUNKA GEOPHYSICAL Expl. Ltd.,
232 - Pembina ST.
New Westminster B.C.

TERMS

	Geophysical survey - Magnetometer and Electro magnetic				
	S. Presunka 3 days @ 150.00			450.	00
	S. Bridcut 3 days @ 50.00			150.	00
	Rental Geophysical E.M and Magnetometer equip.			150.	00
	Living expenses (3 X 25) + (6 X 10)			135.	00
	Transportation from Watson Lake return 550 miles			137.	50
				962.	50

Thank you
Steve Presunka

Nov. 18, 1975

The Mining Recorder,
Liard Mining Division,
Victoria, B. C.

Dear Sir:

Statement of Qualifications of Participants

This is to certify that the geophysical work done on the Top Group of mineral claims in the Liard M. D. was done under my direction.

Mr. S. Presunka is a fully qualified geophysical operator with over 18 years experience in this capacity.

Mr. S. Bridcut, a former pilot-prospector with Falconbridge Nickel Mines Limited (1953 - 1963) received training as a geophysical assistant during this period and was adequately competent in this capacity during the current geophysical survey.

I, D. H. Brown, P. Eng. (B. C.), in conjunction with S. Presunka carried out the interpretation and the writing of the report.

Yours truly,

D. H. Brown

D. H. Brown, P. Eng. (B. C.)

DEPARTMENT OF MINES
AND PETROLEUM RESOURCES

FORM B (*Section 51*) MINERAL ACT

SUB-MINING RECORDER
RECEIVED
NOV 10 1975
M.R. # ..... $ .....
VANCOUVER, B. C.

Affidavit on Application to Record Work

1. I, D. H. Brown (Name) 504 – 1112 West Pender St., (Address) Vancouver, B. C. V6E 2S3
Free Miner's Certificate No. 136737
Date issued Dec. 30, 1974

Agent for John Schussler 13135 – 20th Ave., (Address) Surrey, B. C.
Free Miner's Certificate No. 136804
Date issued Dec. 30, 1974

MAKE OATH AND SAY:

2. I have done, or caused to be done, work on the Hi Group
Hi #2, Hi #4 Mineral Claim(s)
Record No.(s) 72291, 72293
Situate at Ealue Lake in the Liard Mining Division,
to the value of at least 800 dollars. Work was done from the 23rd day
of May 1975, to the 25th day of May 1975

3. The following is a detailed statement of such work done in the 12 months in which such work is required to be done.

(COMPLETE APPROPRIATE SECTION(S) A, B, C, D, BELOW)

A. PHYSICAL (Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails)

(Give details as required by regulations)	COST
TOTAL	

I wish to apply $..... of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

(For B, C, and D sections please turn over)

B. DRILLING

(Details as per report submitted)

COST

I wish to apply $ ..... of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

C. PROSPECTING

(Details as per report submitted)

COST

I wish to apply $ ..... of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

D. GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL (Includes line cutting)

(State type of work)

	COST
Geophysical Electromagnetic (E.M.-16) and Magnetometer (MF1)	962.50
TOTAL	$ 962.50

I wish to apply $ 800. of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

4 claims:- 1 year each to Hi#'s 1 to 4 incl.

Record Numbers 72290 to 72293

Geophysical Report to be submitted within two weeks.

NOTE—Dollar value of work done under A, B, C, or D sections, totalling $200, may be applied as one year's work.

Who paid for the above-described work? Name John Schussler

Address 13135 - 20th Ave.,
Surrey, B. C.

If you intend to claim a refund of cash in lieu under the provisions of the *Mineral Act*, you must make application on this affidavit under A, B, C, or D sections as applicable.

4. That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the *Mineral Land Tax Act*.

SWORN and subscribed to at .....
this ..... day of .....
19 ....., before me—
* .....

A. W. Brown

* This affidavit may be taken by a person empowered to take affidavits by the *Evidence Act* of British Columbia.

DEPARTMENT OF MINES AND PETROLEUM RESOURCES

MINERAL ACT

FORM I

NOTICE TO GROUP

SUB-MINING RECORDER
RECEIVED
NOV 10 1975
M.R. # ...
VANCOUVER, B. C.

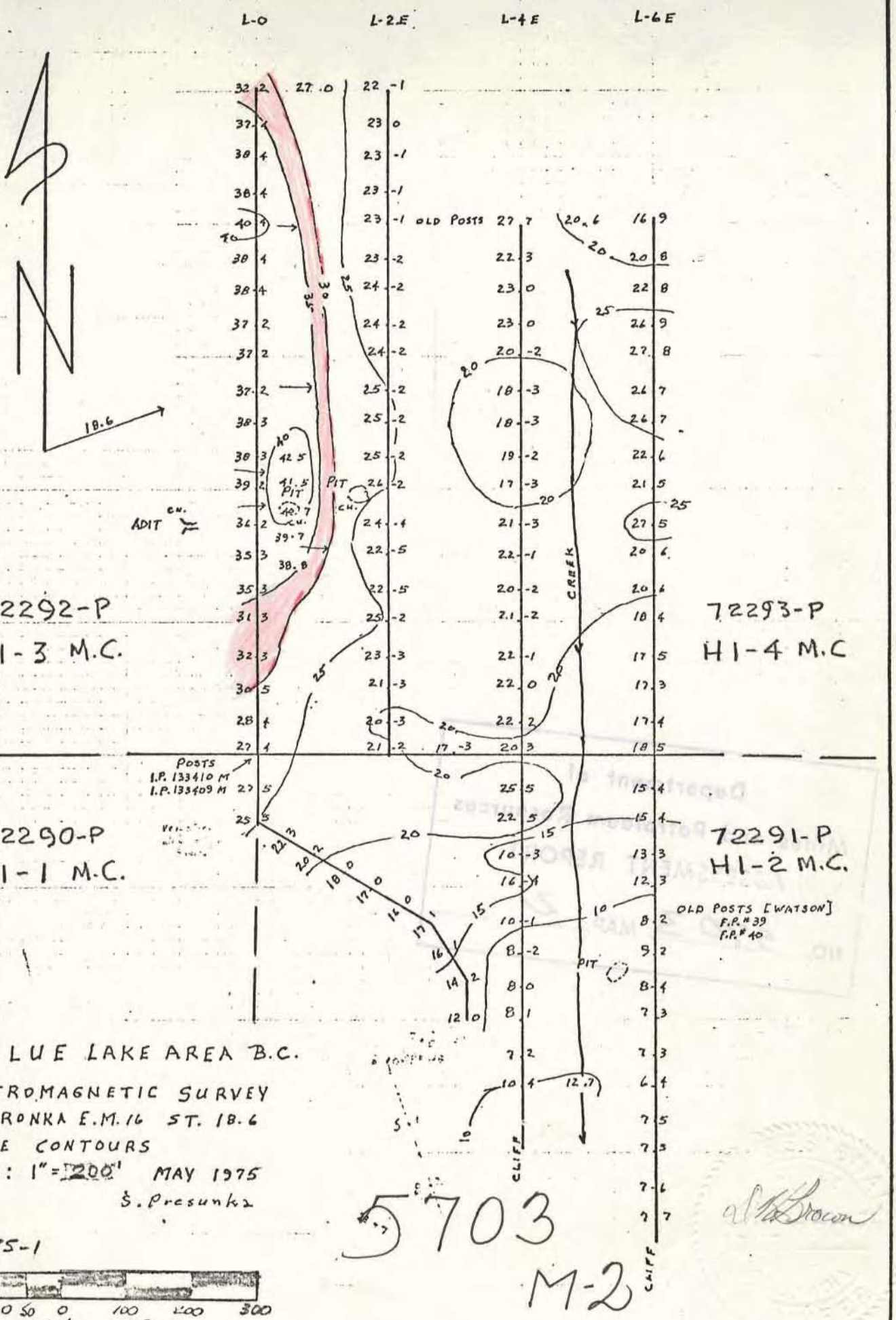
Mining Division LIARD Location EALUE LAKE

Name of group HI GROUP

We, the undersigned owners* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM	Record No. or Lot No.	SIGNATURE OF OWNER*	Free Miner's Certicate No.
Hi #1	72290	J. Schussler	136804
Hi #2	72291		
Hi #3	72292	J. Schussler	
Hi #4	72293		
		L. W. Brown	136737

* May be signed by agent on behalf of owner.



EALUE LAKE AREA B.C.

ELECTROMAGNETIC SURVEY

INST. RONKA E.M.16 ST. 18.6

INPHASE CONTOURS

SCALE: 1" = 200' MAY 1975

S. Presunka

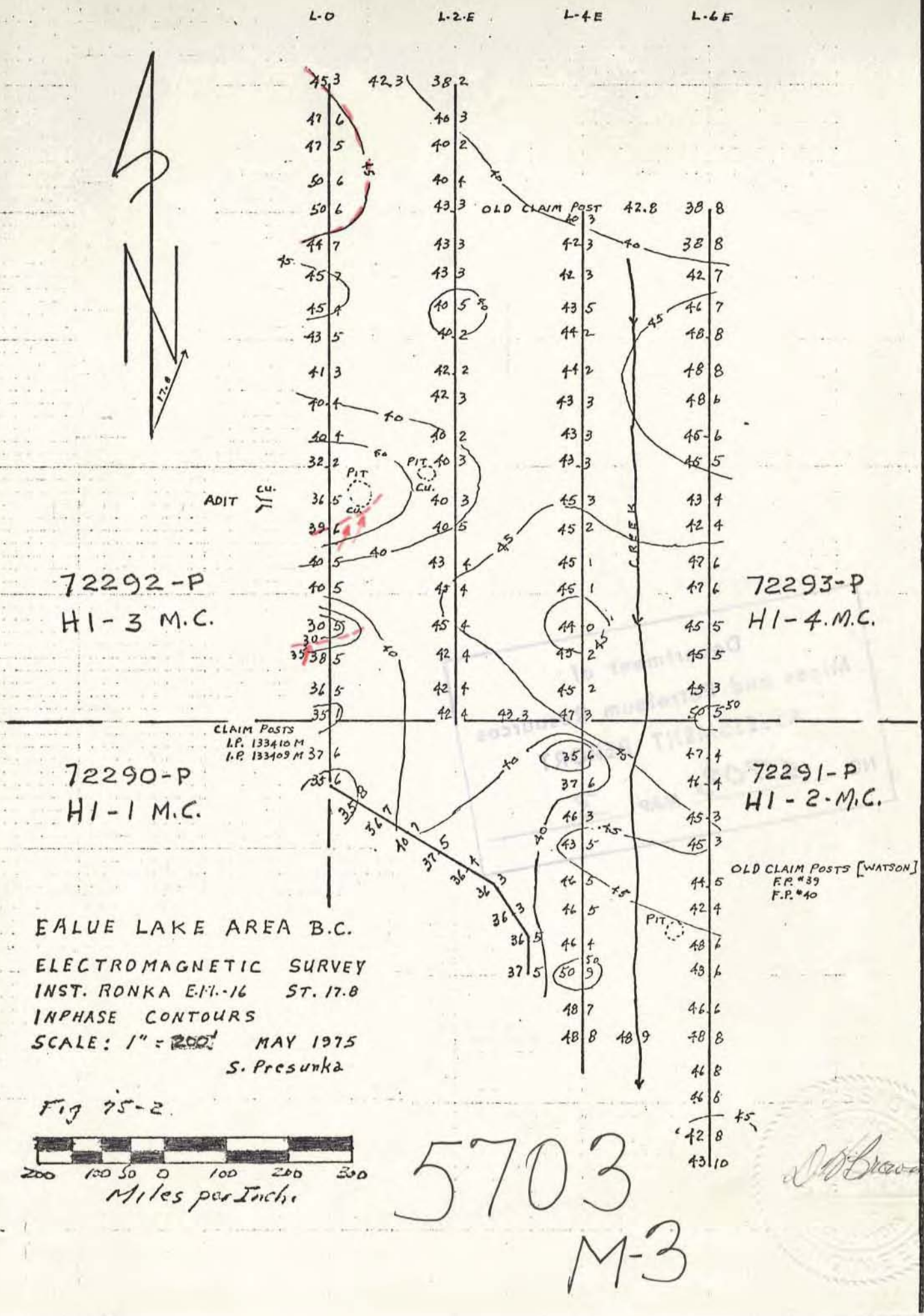
Fig. 75-1

200 100 50 0 100 200 300

Miles per Inch

5703

M-2



EALUE LAKE AREA B.C.

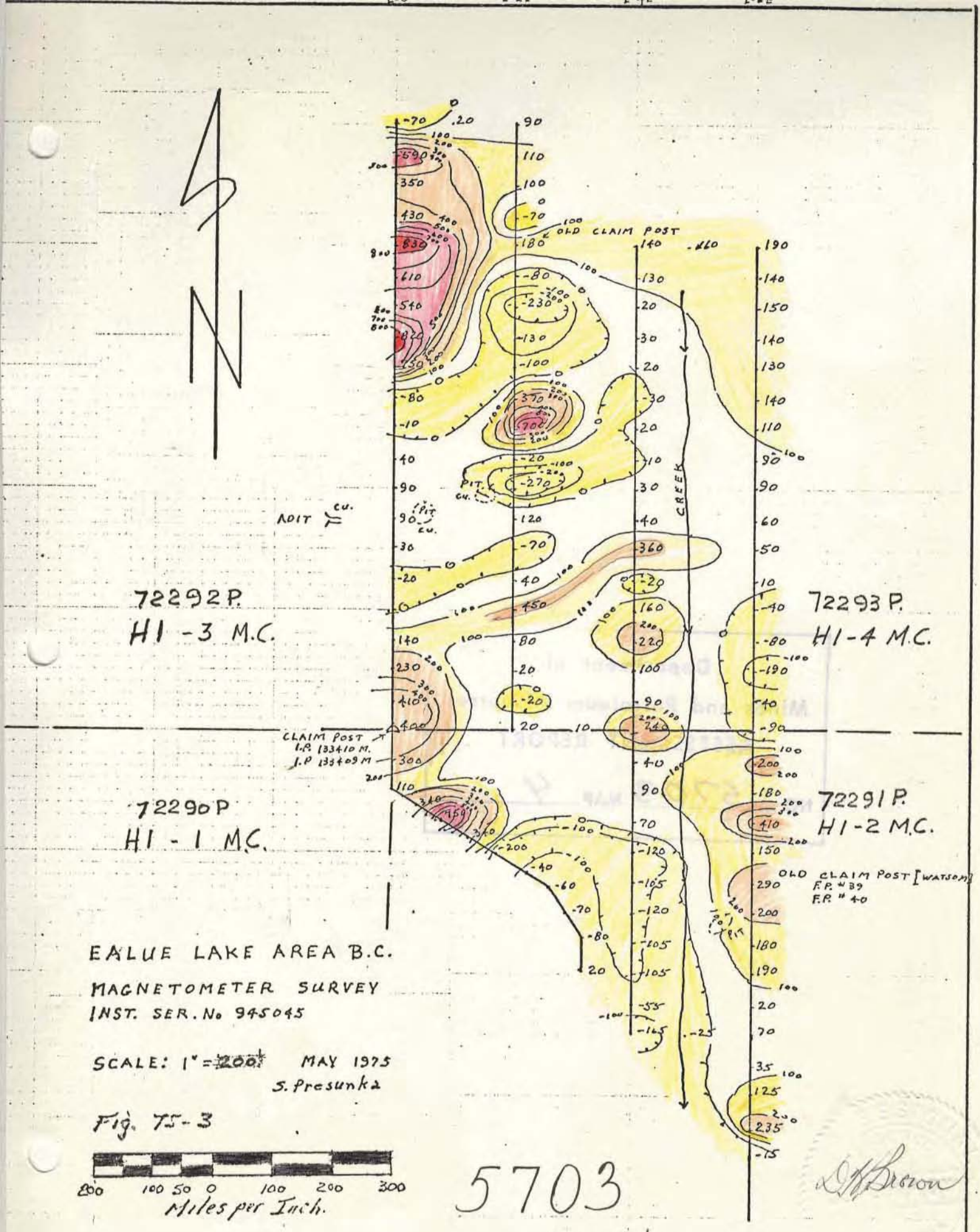
ELECTROMAGNETIC SURVEY
INST. RONKA E.M.-16 ST. 17.8
INPHASE CONTOURS
SCALE: 1" = 200' MAY 1975
S. Presunka

Fig 75-2.

200 100 50 0 100 200 300
Miles per Inch.

5703

M-3


72292P.
HI -3 M.C.
72293 P.
HI-4 M.C.
72290P
HI - 1 M.C.
72291 P.
HI-2 M.C.
ADIT
CU.
PIT.
CREEK
CLAIM POST
I.P 133410 M.
I.P 133409 M
OLD CLAIM POST
OLD CLAIM POST [WATSON]
F.P. # 39
F.P. # 40
EALUE LAKE AREA B.C.
MAGNETOMETER SURVEY
INST. SER. No 945045
SCALE: 1" = 200'
MAY 1975
S. Presunka
Fig. 75-3
200 100 50 0 100 200 300
Miles per Inch.
5703
M 4