

# 4430

Geochemical and geophysical survey on  
the IAN group of claims situated 2 miles  
east of Ahdatay Lake, Omineca Mining  
Division, British Columbia, N.T.S. 93 NW,  
Longitude  $124^{\circ}47'30''$ ; Latitude  $55^{\circ}20'30''$   
and owned by and on behalf of Pechiney  
Development Ltd.

93N / 7W

Field Work between the 25th of July and the  
2nd of August 1972

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <b>4430</b> MAP .....
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Report by  
B. Berthault,  
Geologist  
June 20, 1973

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I CLAIMS - LOCATION - ACCESS

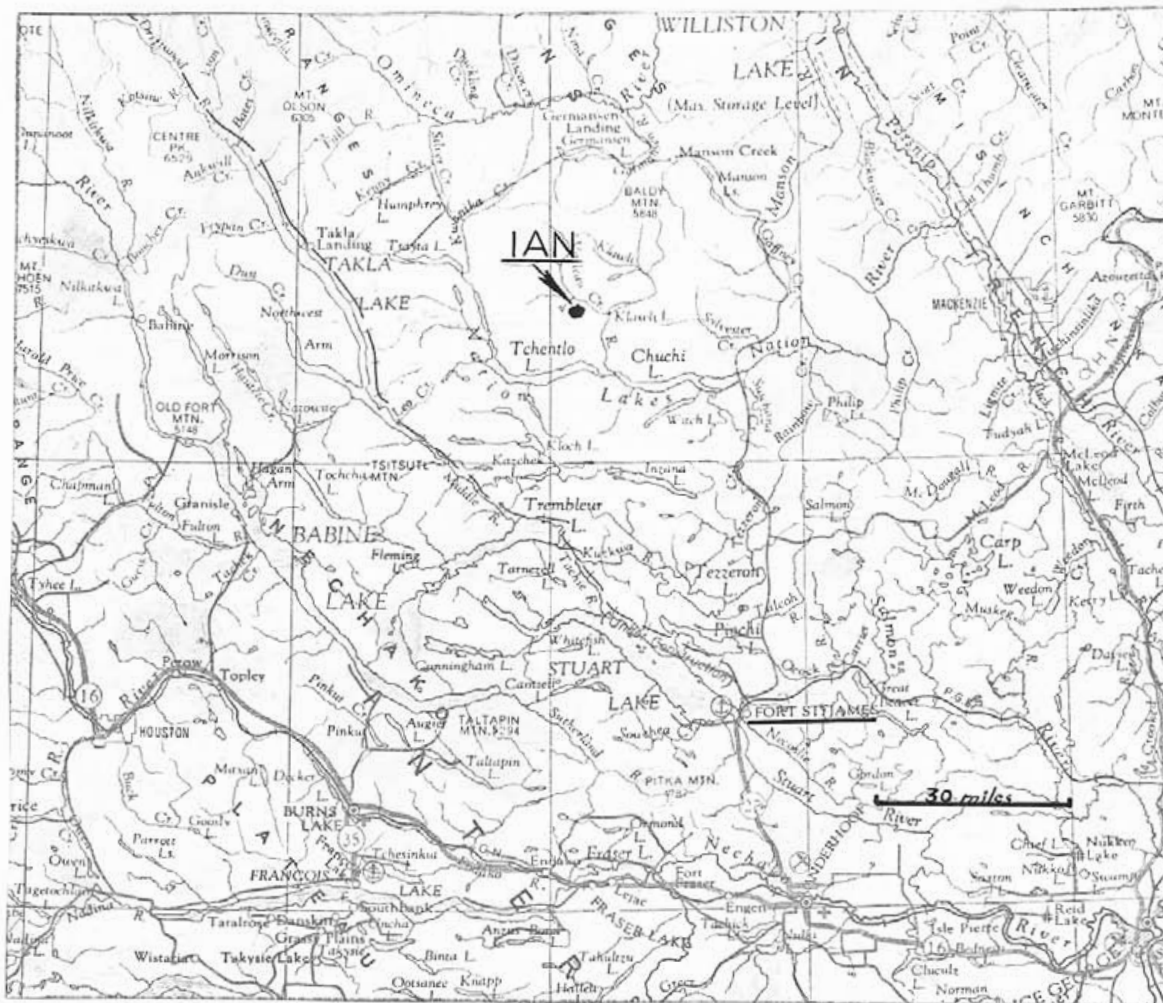
The IAN group of claims is composed of a block of six claims, which were staked on the 20th of July 1972 and recorded on the 31st of July 1972.

The claims are recorded as follows:

<u>Claim Name</u>	<u>Record No.</u>
IAN 1	113 945
IAN 2	113 946
IAN 3	113 947
IAN 4	113 948
IAN 5	113 949
IAN 6	113 950

The claims are located 2 miles east of Ahdatay Lake and some 70 miles northeast of the town of Fort St. James; the approximate coordinates of the claims are  $X = 124^{\circ}47'30''$ ;  $Y = 55^{\circ}20'30''$  on N.T.S. map 93 N (map in text).

Access to the claims is possible by helicopter only from the base of Fort St. James.



General Location of the IAN Claims

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NO. **4430** MAP **#3**

The relief is smooth as the claims are located on the top of a small hill, drained by a creek running northward. The ground is fairly swampy in some areas. The underbrush is not too thick; penetration therefore is fairly easy.

## II SURVEYS

During the end of July 1972 and the first days of August 1972 a prospecting campaign, magnetometer survey and geochemical sampling were carried out on the claims. Mike Caron, a senior student in geology at U.B.C., was in charge of the work in the field.

Seventy-three (73) soil samples were taken from the top of the B horizon and analysed by atomic absorption after extraction by "hot aqua regia" for copper, zinc, molybdenum and manganese by Bondar Clegg Laboratories, 1500 Pemberton Avenue, North Vancouver, B.C.

Seventy-seven (77) magnetometer readings were taken along a 750' grid profil orientated EW, with readings taken at 300' intervals. A SHARP MF1 magnetometer giving the vertical component of the magnetic field was used.

### III RESULTS

The claims are covered by glacial drift: sand, gravel, boulders of volcanic and eruptive rocks. One outcrop was observed just east of claim IAN 1. It consists of a dark basic lava, certainly a basalt.

The magnetic values range from 1900 to 4050 gammas. A magnetic high seems to be located between claim IAN 1 and IAN 3. Low values from 2500 to 3200 gammas occur on claim IAN 3 and IAN 4 (maplin pocket).

The geochemical results show:

- very low values for molybdenum (0 to 23 ppm)
- low values for zinc (19 to 168 ppm) with a background of around 50 ppm
- medium values for Mn (several hundred ppm) with some isolated high values (up to 4850 ppm)
- medium to low values for copper (8 to 305 ppm) with a background of around 30 ppm. Copper values above 100 ppm delineate a small anomaly on the west border of claim IAN 6 (map 2 in pocket).

This anomaly seems to be associated with the best molybdenum value.

*[Faint handwritten signature]*  
Respectfully submitted,  
B. Berthault,  
Geologist



APPENDIX I

Personnel Certificates

- BERTHAULT, Bernard: Geological Engineer, University of Nancy, France; Graduate of E.N.S.G., France. Engaged in mineral exploration since 1963 while employed by the French Atomic Agency, Mokta (Canada) Ltd. and Pechiney Development Ltd.
- Address: 802 - 1250 Burnaby St., Vancouver
- CARON, Michael E: four years of science, U.B.C. Age 24 Previous experience includes - three seasons with Pechiney Development Ltd. and one season with Texas Gulf Co.
- ADAM, Ian: 2nd year student in geology, U.B.C. Worked for one summer with Pechiney Development Ltd. as soil sampler
- MENZIES, Robert: 3rd year student in geology, U.B.C. Worked with Pechiney Development Ltd. as silt sampler in the summer of 1971 and as a magnetometer operator in the summer of 1972



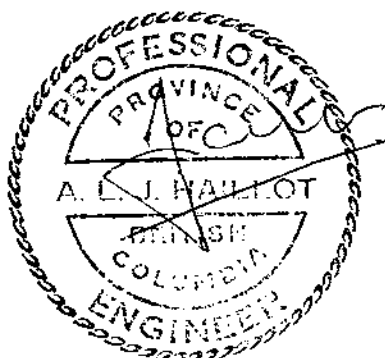
APPENDIX II

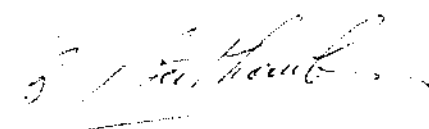
Cost Breakdown - IAN Group of Claims

Geochemical Survey

1. 73 samples analysed for Cu, Mo, Zn, Mn by Bondar-Clegg & Co. Ltd. @ \$3.20 per sample	\$ 233
2. Geochemical sampler - salary 5 days @ \$15.00/day	75
3. Magnetometer survey Salary and equipment 5 days @ \$30.00/day	150
4. Drafting, typing	150
	<hr/>
T o t a l	\$ 608
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\$608.00 to apply to the IAN group of claims for one  
years assessment.



  
B. Berthault

# Pechiney Development

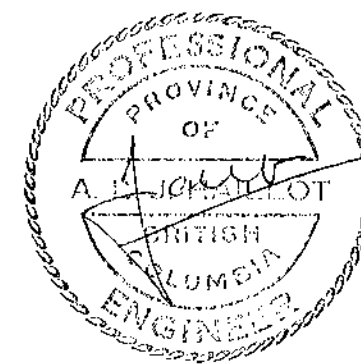
## IAN CLAIMS

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### GROUND MAGNETIC

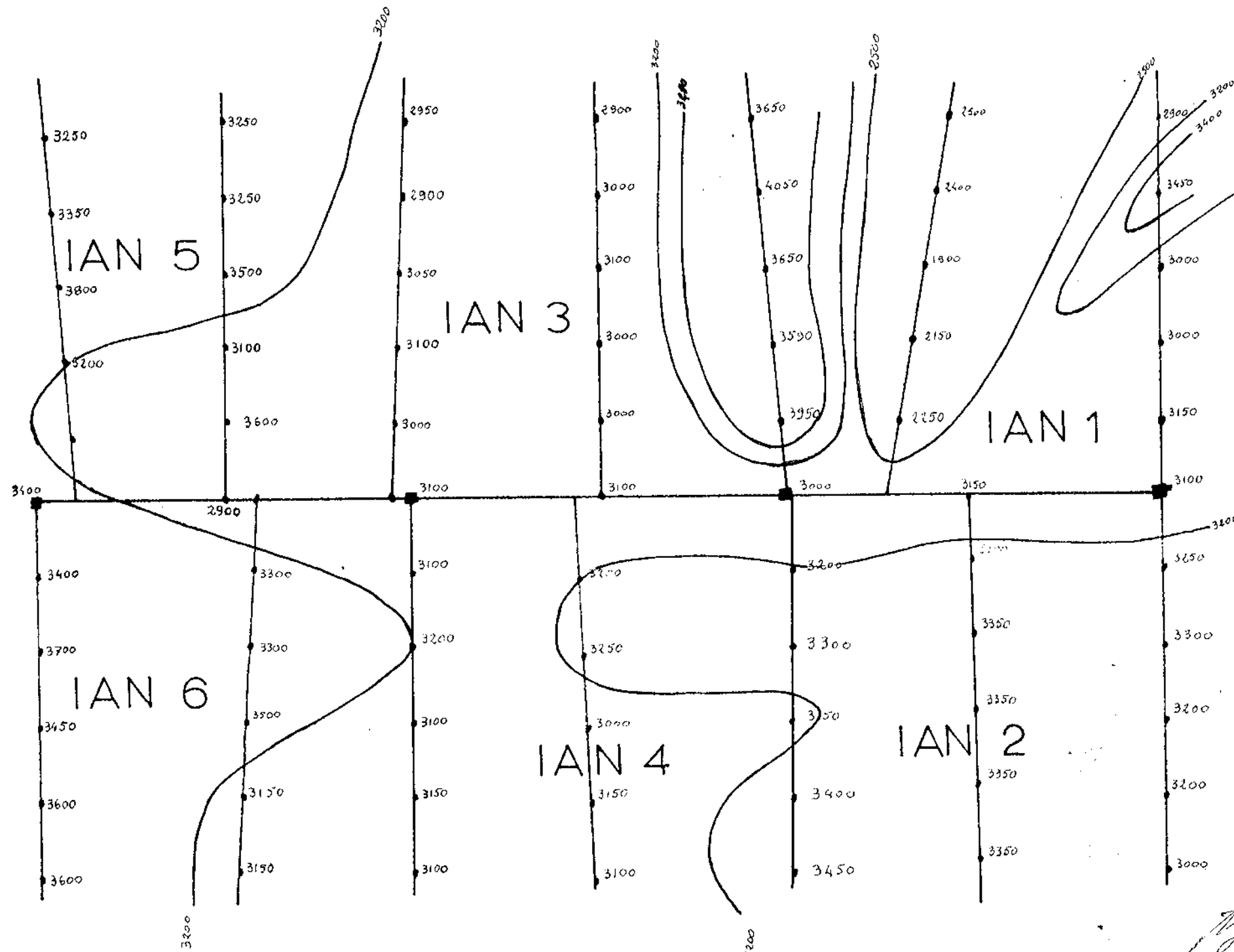
### SURVEY

# 4430 M-1



To accompany geochemical and geo-physical survey on the IAN group of claims by B. Berthault, Geologist, June 20, 1973

map.1

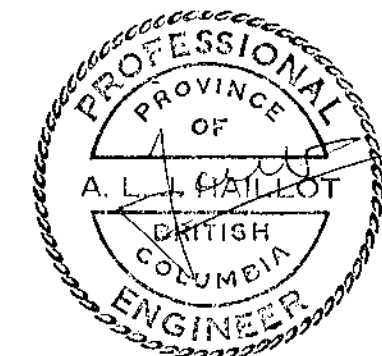


g.n. 500' 2500 magnetic reading in gammas (vertical component)

IAN CLAIMS

SOIL GEOCHEMISTRY

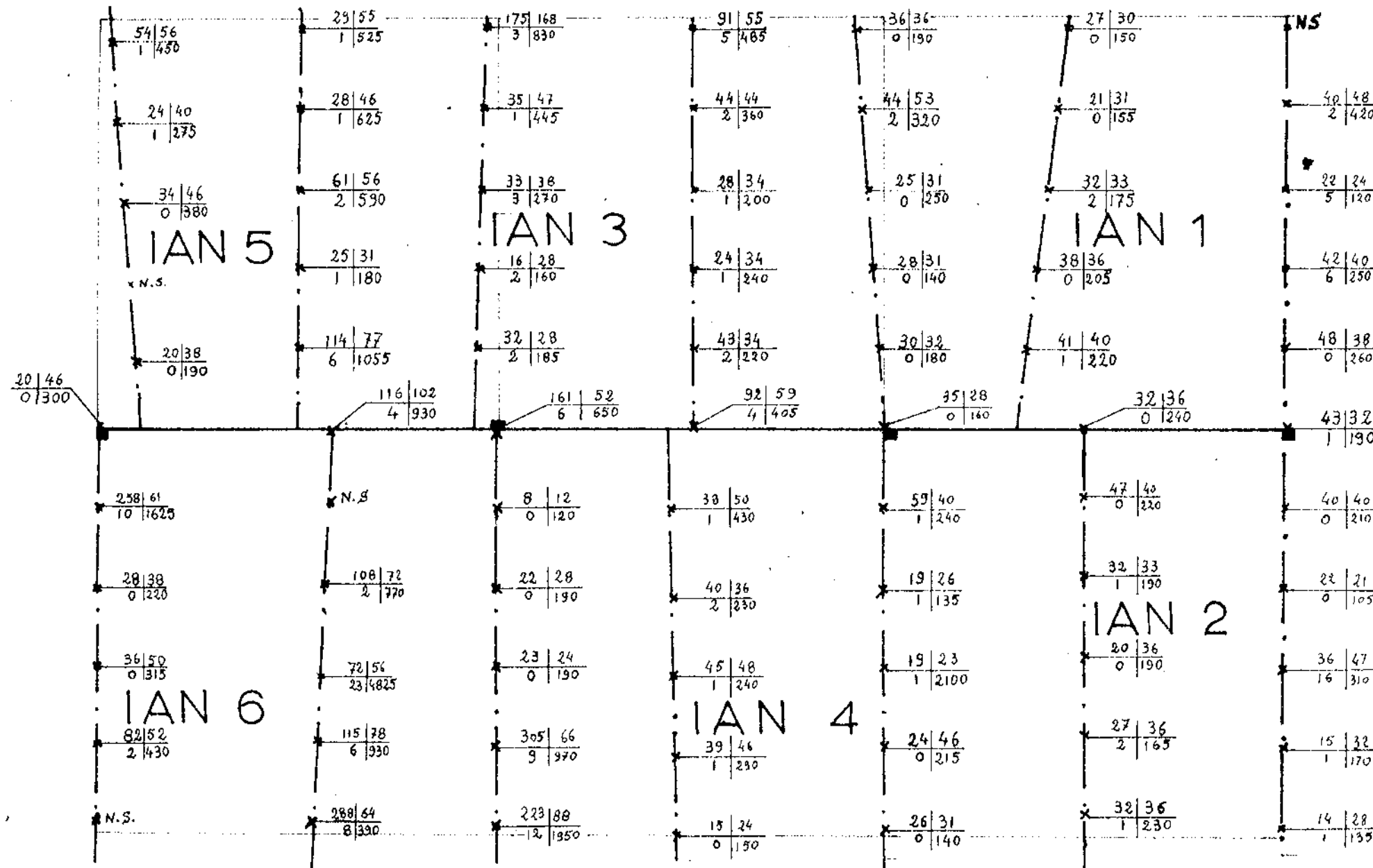
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**4430 M-2**

To accompany geochemical and geo-physical survey on the IAN group of claims by B. Berthault, Geologist, June 20, 1973

map.2



G.N

500'

Cu ppm. 51 | 146 Zn ppm.  
Mo ppm. 7 | 850 Mn ppm.

*Berthault*