

4356

92E/8E

REPORT ON THE GEOCHEMICAL SURVEY

OF THE FLORES ISLAND PROJECT

Location: North end of Hot Springs Cove, on the West side of
Sydney Inlet, Vancouver Island, B. C.

Alberni Mining District

Latitude 49° 18.5'N Longitude 126° 08'W

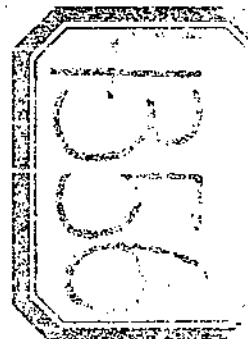
Report by: A. W. Randall B. A. Sc.

Supervised by: B. E. Spencer B. A. Sc., P. Eng.

Work done by: Western Mines Ltd. as agent for Florex Mines Ltd.
and Mr. S. Craig

Work Period: August 30 - September 26, 1972

November 25, 1972



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ASSESSMENT REPORT	
NO. 4356	MAP

CONCLUSIONS & RECOMMENDATIONS.

The geochemical soil survey of the Flores Island Claims produced only a few small and weak anomalies. No mineralization of economic interest was noted in any of the outcrops examined.

The available evidence suggests that no further work is justified.

INTRODUCTION.

Western Mines has exercised an option to explore a block of 38 mineral claims owned by Mr. Sam Craig (see appendix for claim names and numbers). This group is located in the central part of Flores Island.

A program of geochemical sampling and prospecting was carried out under the supervision of the writer between August 30 and September 26, 1972. Some geological mapping was carried out, but was limited by the lack of outcrops.

The object of the survey was to test the possibility of disseminated copper mineralization occurring in the intrusive rocks which are thought to be part of the "Island Intrusions." Falconbridge Nickel Mines holds four claims, within the claim group examined, which are reported to have some disseminated chalcopyrite in the granitic rocks.

LOCATION & ACCESS.

This group of mineral claims is located near the centre of Flores Island at the headwaters of the east branch of Cow Creek. Flores Island is located about 10 miles north-west of Tofino, Vancouver Island, B. C.

Access to the claims is best gained by helicopter from Tofino as no roads and only a few foot trails exist on the island.

TOPOGRAPHY.

The topography consists of low hills (generally less than 2000 ft. el.) with moderate to steeply sloping sides and occasional rocky bluffs. River valleys are generally narrow and slope gently. Foot travel is often tedious due to thick bush and many deadfalls.

GEOCHEMICAL SURVEY.

Grid: A control grid of about 15.5 line miles was laid out using chain and compass. The lines which ran N50°W were spaced 500 feet apart and stations were marked with flagging at 100 foot intervals.

Field Procedure: Soil samples were collected wherever possible from the "B" horizon beneath the organic layer. A rock hammer was used to dig the holes and sample material was gathered by hand and placed in "Kraft" paper envelopes. A total of 731 soil samples were collected.

Geochemical Assaying: The soil samples were tested in the assay laboratory at Western Mines under the direction of Mr. J. Isaac, B. Sc. Chem. The method of analysis used was as follows:

1. Dried in electric oven.
2. Screened to -80 mesh.
3. A 0.5 gram sample weighed out and digested in 5 mls. hot HCl and HClO₃ and then evaporated to dryness.
4. Residue from (3) dissolved in 40 mls. of water.
5. Tested in the Atomic Absorption Spectrometer against known standards.

The results obtained were reported in parts per million.

INTERPRETATION AND DISCUSSION OF RESULTS.

Histograms showing the distribution of copper, zinc, and lead values were plotted (see fig. 1). From each of these plots the division between background and anomalous values ("threshold") was determined. They are as follows:

Copper - greater than 210 ppm

Zinc - " " 200 ppm

Lead - " " 120 ppm

The copper and lead showed a fairly sharp break between background and anomalous values, however, the zinc distribution tapered off very gradually making it difficult to determine the break point.

The anomalous zones were generally few and small in size. The best anomalous areas are as follows:

Copper - vicinity of 10S - 5E

- " " 45S - 34W

- " " 43S - 21W

Zinc - line 85S from 0 to 6W

- vicinity of 70S - 5W

- line 20S from 21W to 27W

Lead - Vicinity of 55S - 21W

- line 85S from 0 - 5W

These anomalies are generally weak as most of the anomalous values are barely above the "threshold" level. In all three cases, these were several individual high values with no supporting highs surrounding them. The majority of these have been ignored as they are assumed to be due to contamination or possibly an insignificant amount of mineralization.

There appears to be a considerable number of anomalous zinc samples, however, this is probably a reflection of the lack of a sharp break between background and anomalous values.

Some of the anomalies are stretched along a sample line. This appears to be due to down-slope movement of anomalous material. The lines in question all traverse directly up and down the slope.

REPORT BY.....*A. W. Randall*.....
A. W. Randall B. A. Sc.

SUPERVISED BY.....*B. E. Spencer*.....
B. E. Spencer B. A. Sc., P. Eng.



DECLARATION OF EXPENDITURES.

Supervision

A. Randall @ \$775 p.m. Aug. 30-- Sept. 26 (28 days) \$ 732.40

Grid Survey & Geochem Sampling

B. Prescott @ \$775 p.m. " " \$ 732.40

P. Mason @ \$600 p.m. Sept. 16 - 26 (10 days) \$ 200.00

B. Gardner @ \$550 p.m. " " \$ 183.30

Reports & Drafting

A. Randall @ \$775 p.m. Nov. 20 - 25 (6 days) \$ 155.00

Living Expenses

76 Man days @ \$7.50 per man day \$ 570.00

Geochemical Assays

Preparation 731 samples @ \$0.50 per sample \$ 365.50

Analyses 2193 samples @ \$1.00 " " \$2193.00

Helicopter

7 Hours @ \$256.00 per hour \$1792.00

Total Expenditure \$6923.60

..... *A. W. Randall*
A. W. Randall B. A. Sc.

..... *B. E. Spencer*
B. E. Spencer B. A. Sc., P. Eng.

STATEMENT OF QUALIFICATIONS

1. I, Alfred W. Randall, am a graduate of the University of British Columbia, B. A. Sc. Geological Engineering, 1972.

2. Prior to graduation, I was employed as geological assistant and later as geologist for the following companies:

Gunnex Ltd., Vancouver, B. C.; Phelps Dodge Corp., Vancouver, B. C.; Asarco, Vancouver, B. C.; Cordilleron Engineering Ltd., Vancouver, B. C.; Trigg Wollett and Associates, Edmonton, Alberta; and Canadian Superior Ltd., Vancouver, B. C.

Since graduation, I have been employed as geologist for Western Mines Limited, Campbell River, B. C.

A. W. Randall
.....
A. W. Randall B. A. Sc.

APPENDIX

Flores Island Project Claim Group.

<u>Claims</u>		<u>Record Nos.</u>	
JR	1 - M 12 F.	17813 G	- 17824 G
Snow	1 - 8	18819 E	- 18824 E
FSC	1 - 8	18827 E	- 18834 E
F1	1 - N 12	18807 E	- 18818 E

FIGURES

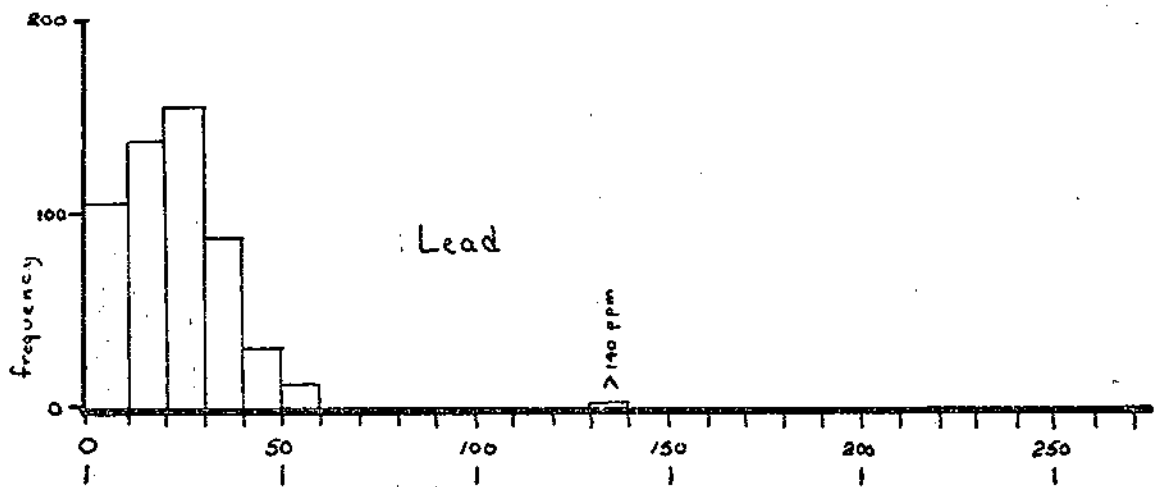
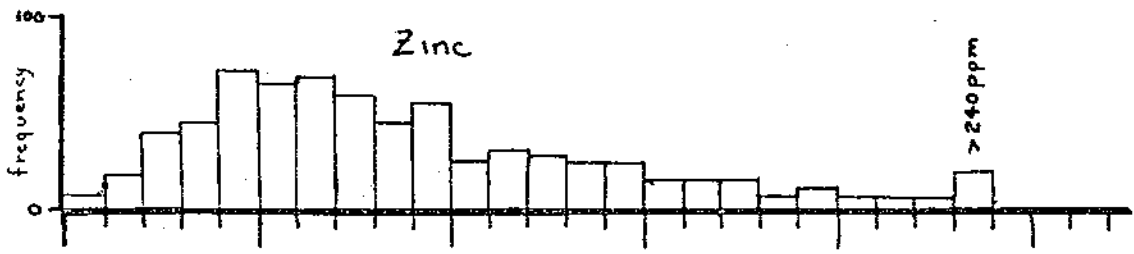
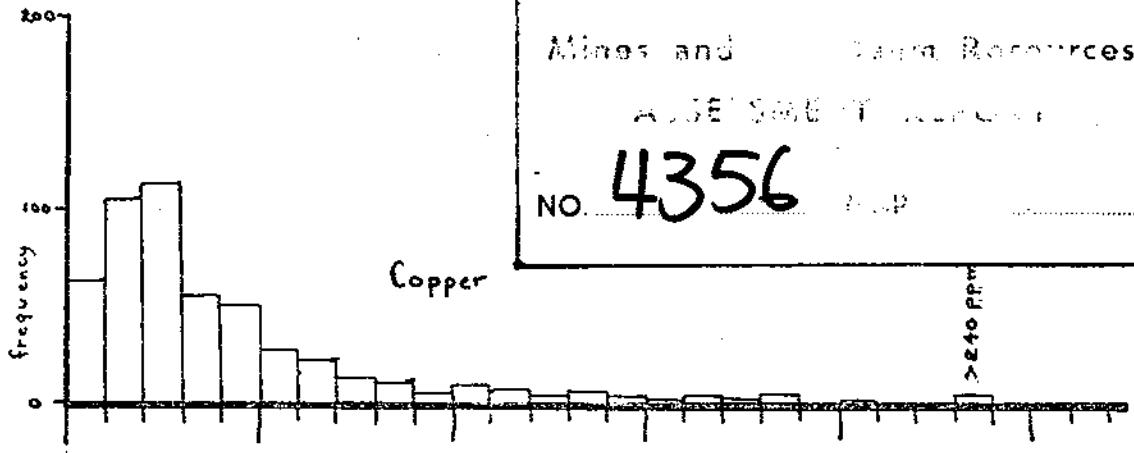
Frequency Distribution of Copper, Zinc, and Lead Assays

MAPS

- A. Location Map
- B1. Geochemistry - Copper
- B2. Geochemistry - Zinc
- B3. Geochemistry - Lead

Fig. 1

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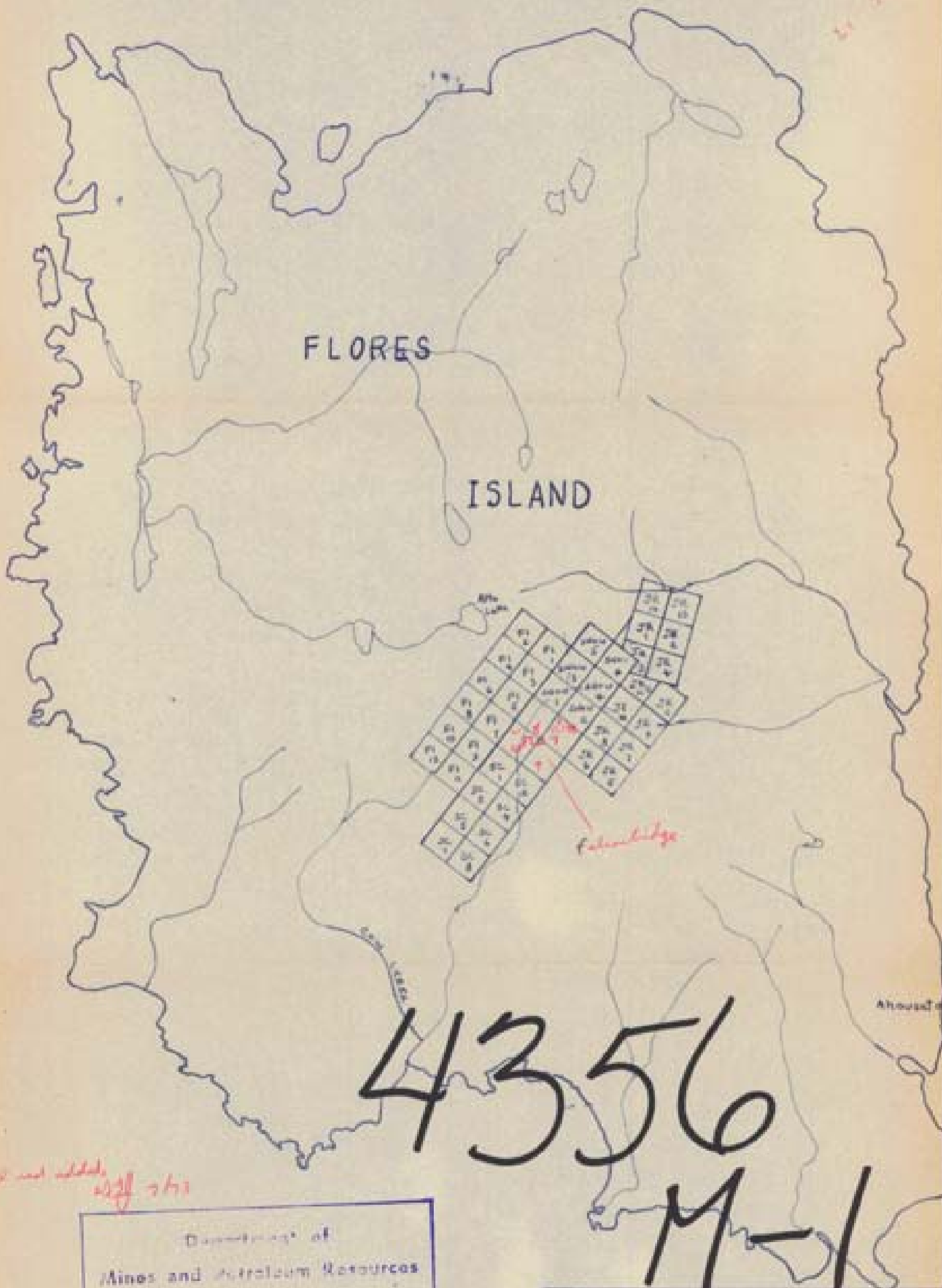


Assay value in ppm

FREQUENCY DISTRIBUTION OF COPPER ZINC & LEAD ASSAYS

FLORES ISLAND PROJECT

51-58
21-22-23

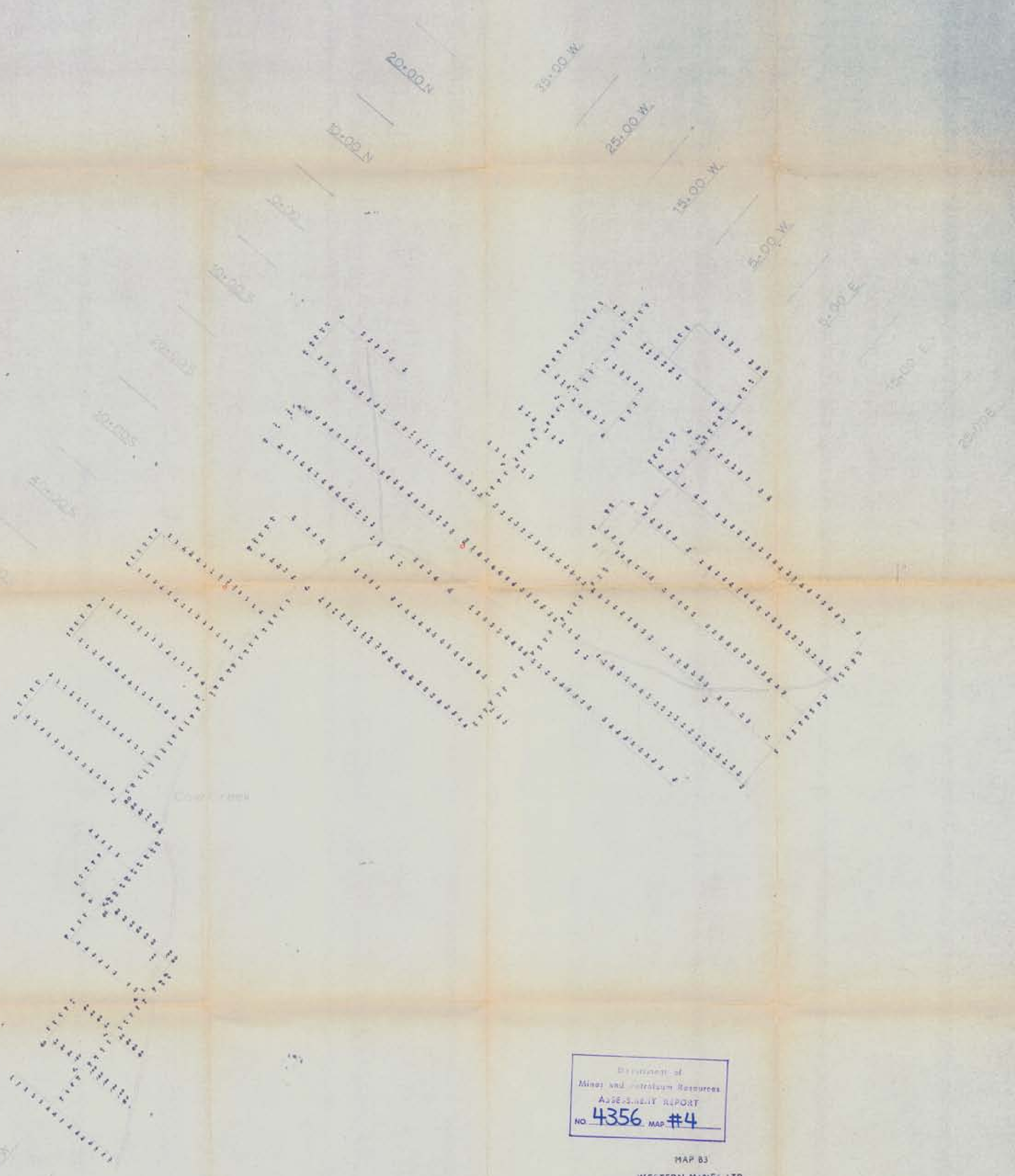


all road widths
2/27/72

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NO. **4356** MAP **#1**

WESTERN MINES LTD.
FLORES ISLAND PROJECT
LOCATION MAP
1 IN = 1.25 MI. NOV 25, 1972

MAP A



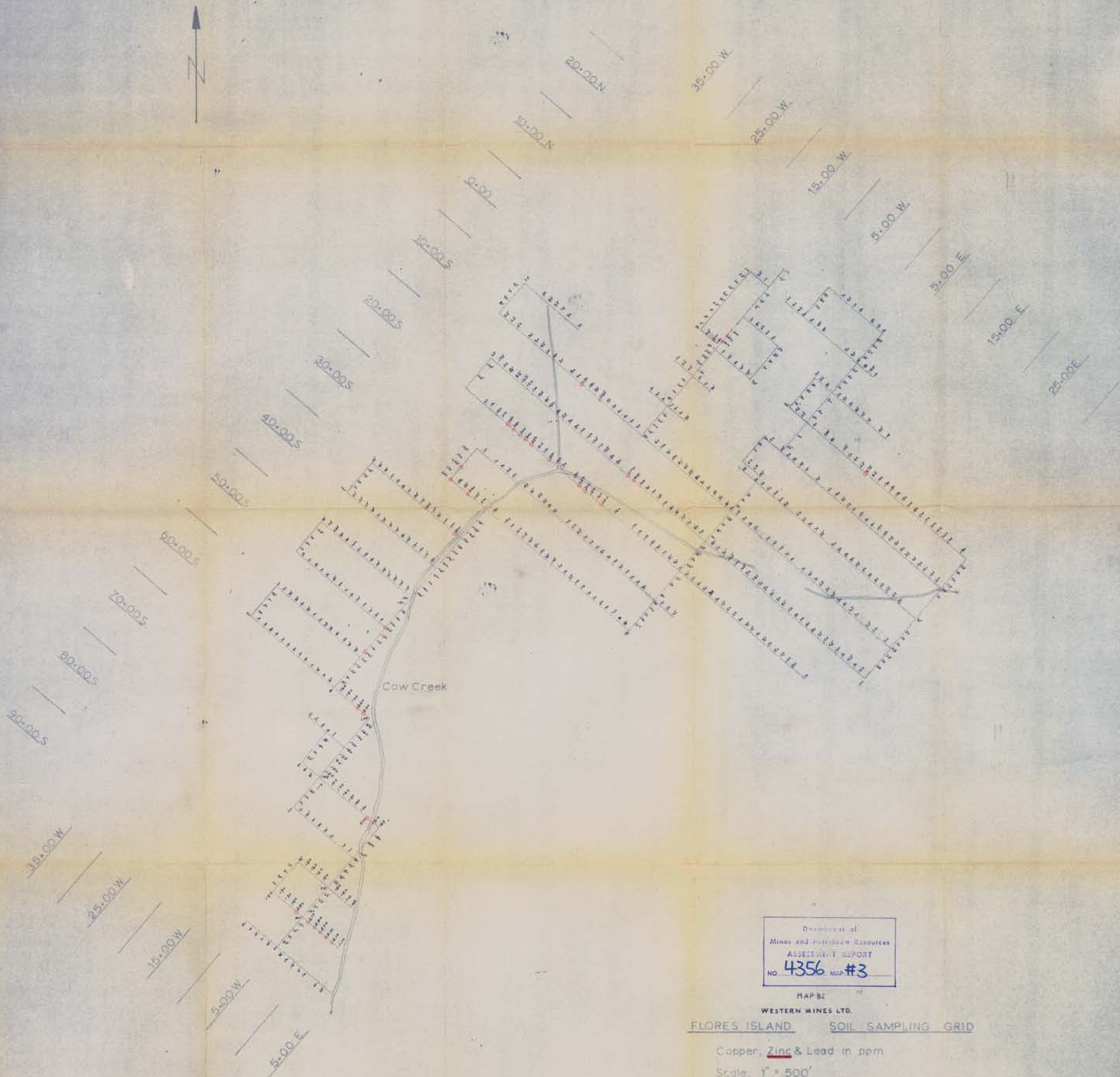
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MAP B3
WESTERN MINES LTD.
FLORES ISLAND SOIL SAMPLING GRID

Scale: 1" = 500'
Date: 1972

To accompany report by A. Roddell, B.A. Sc., on the Flores Island
Project, Alberta Mining Division, dated May 25, 1972.

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MAP #2
WESTERN MINES LTD.

FLORES ISLAND SOIL SAMPLING GRID

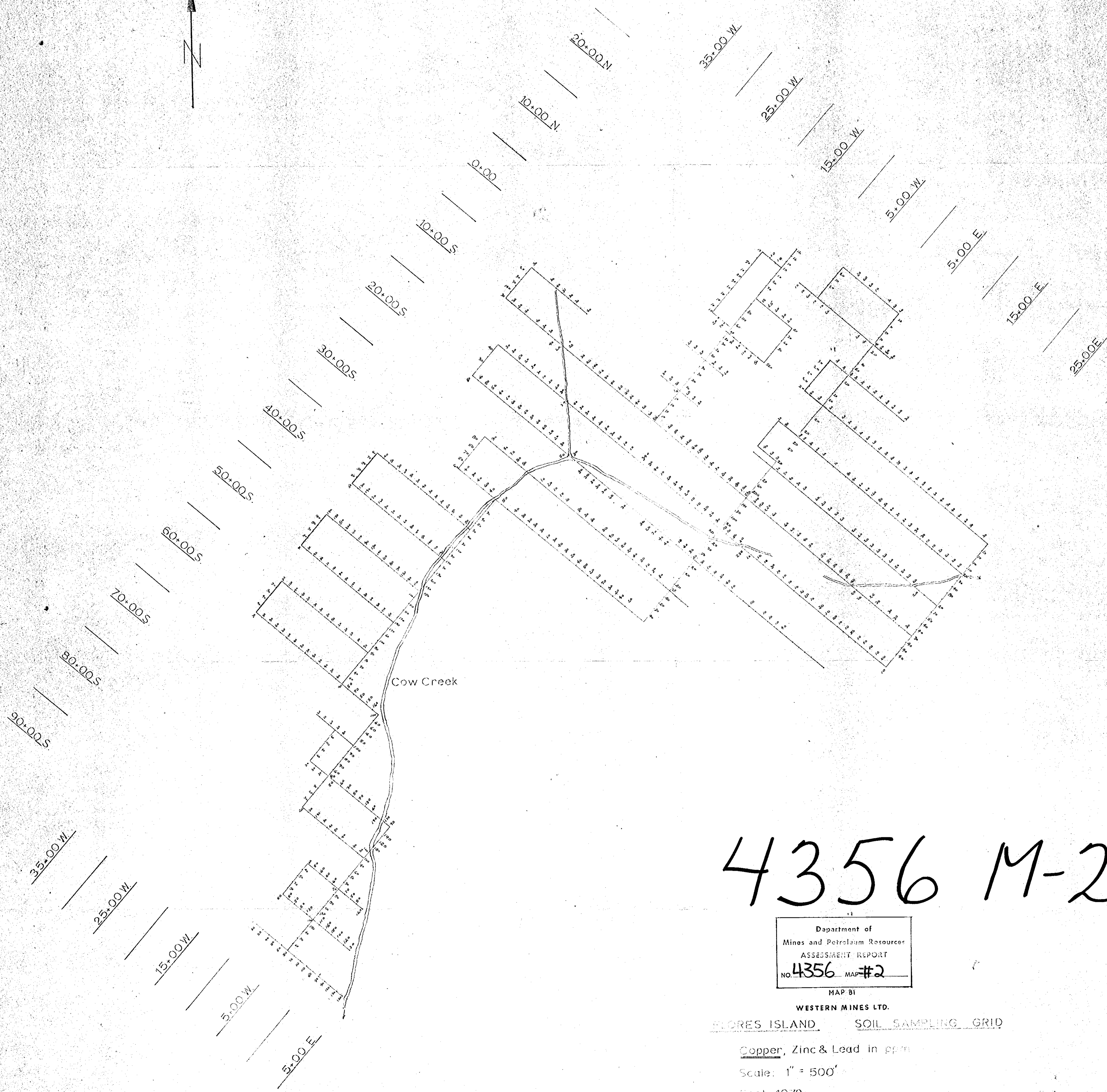
Copper, Zinc & Lead in ppm

Scale: 1" = 500'

Sept. 1972

In accompany report by A. Randall, B.A.Sc., on the Flores Island
Project, Alberta Mining Division, dated Nov 25, 1972.

0 - > 200 ppm



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MAP B1
WESTERN MINES LTD.

FLORES ISLAND SOIL SAMPLING GRID

Copper, Zinc & Lead in ppm

Scale: 1" = 500'

Sept. 1972

To accompany report by A. Rendell, B.A.Sc., on the Flores Island Project,
Alberta Mining Division, dated Nov. 25, 1972.