



SUMMARY REPORT

on

JAM CLAIMS

Mayo Mining District, Y.T.
106 C2
64°10', 133°50'

for

McIntyre Mines Limited

by

APR 10 1978

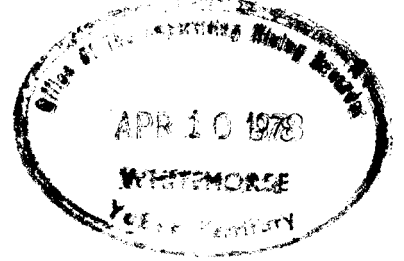
A. Floyd

R. Arnold

Supervised by A.O. Birkeland

June 15 - Sept. 15, 1977

November, 1977



090308

This report was prepared by the
Clerk of the Board of Mineral Rights
and is hereby certified as a true and
correct copy of the original of

\$5,000.00

J. B. Craig
Secretary

Considered and approved under
Section 11 of the Mining Act.

B. B. BAXTER
Mining Recorder

[Signature]
Clerk of the Board

TABLE OF CONTENTS

	<u>Page No.</u>
LIST OF ILLUSTRATIONS	1.
INTRODUCTION	2.
GEOLOGY	4.
GEOCHEMISTRY	6.
CONCLUSIONS & RECOMMENDATIONS	8.
STATEMENT OF QUALIFICATIONS	8a.
APPENDIX 1 Quantitative Geochemical Analysis	9.
2 Project Costs	10.
 Certificate of Expenditures	11.
3 Names and Addresses of Employees	13.

LIST OF ILLUSTRATIONS

<u>Fig.</u>	<u>Description</u>	<u>Page No</u>
1.	Location Map	3.
2.	Sian - Jam Claims Sections	5.
3.	Histogram of Soil Values	7.
 <u>Map</u>		 Enclosure
1.	Geology	
2.	Silt Geochemistry	
3a.	Soil Geochemistry - Lead	
3b.	Soil Geochemistry - Zinc	
3c.	Soil Geochemistry - Silver	
3d.	Geochemistry Baseline Grid	
4.	Claim Sketch	
5.	Claim Post Locations	

INTRODUCTION

This property consists of 32 contiguous mineral claims 8 miles NNE of Ortell Lake in 106 C/2. The claims were staked on July 29th following the location of lead-zinc-silver mineralization in Palaeozoic carbonates.

Access to the property is by helicopter, the nearest lakes are Ortell Lake 8 miles to the SSW or Tara Lake 8 miles to the NW. All the work in 1977 was done from the Tara Lake base camp and included geological mapping, soil sampling and detailed prospecting.

Claim details are as follows:-

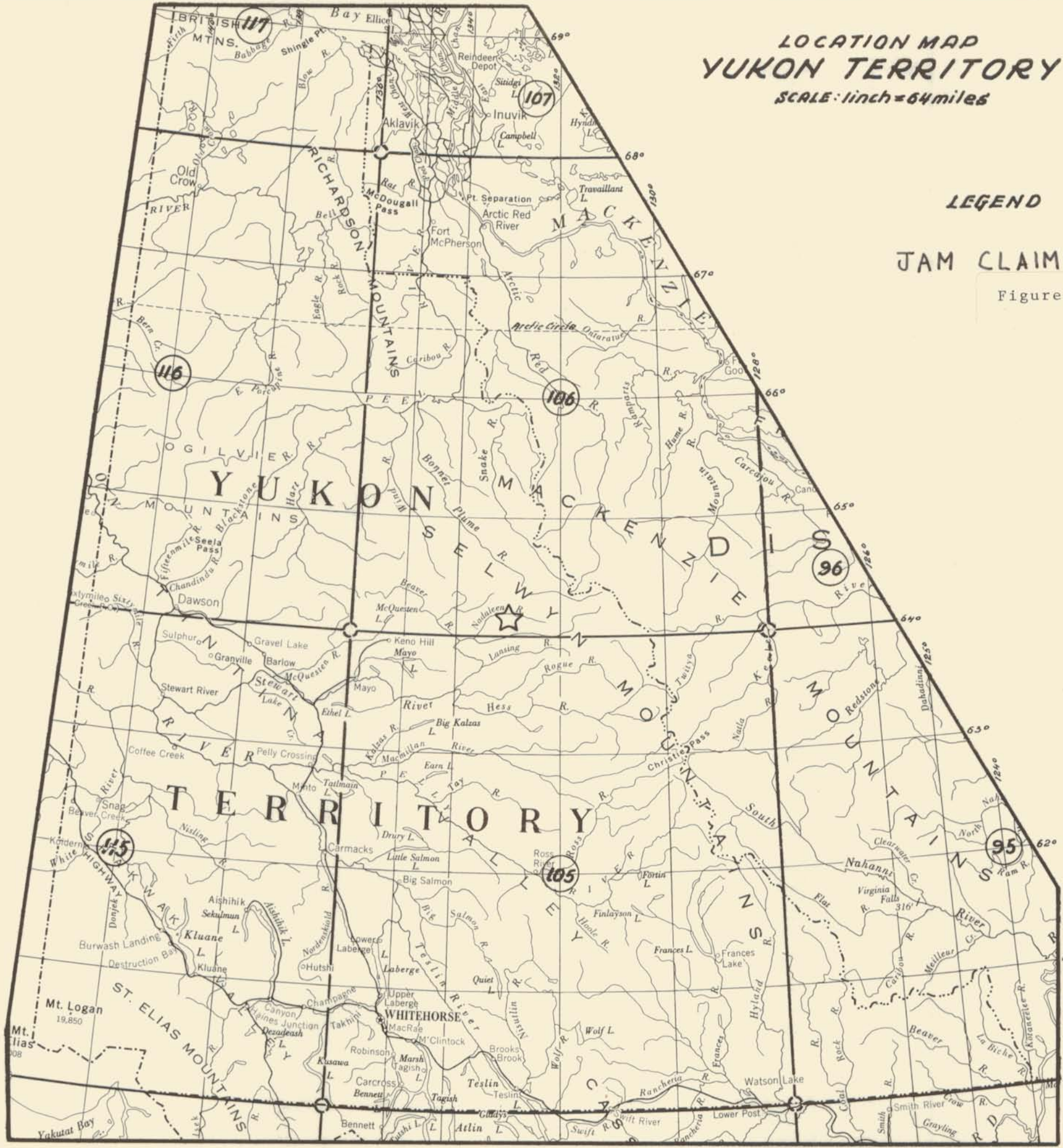
<u>Claims Nos.</u>	<u>Date Staked</u>	<u>Date Recorded</u>	<u>Record Nos.</u>
JAM 1 - 32	29th July, 1977	9th August, 1977	YA15914-15945

LOCATION MAP YUKON TERRITORY SCALE: 1 inch = 64 miles

LEGEND

JAM CLAIMS

Figure 1



GEOLOGY

The Jam claims, located north of the Sian claims, lie in a belt of Hadrynian and Ordovician-Devonian carbonates and shales. Outcrop exposure in the map area is poor.

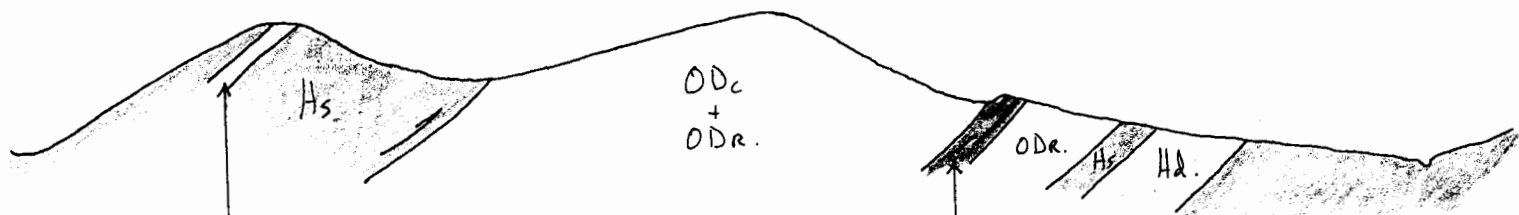
The map area is bounded to the north by Hadrynian shales and coarse sugary light pink to white dolomites with minor light grey limestone throughout. Ordovician-Devonian coarse, light grey to grey limestones and dolomites lie to the south.

The mineralization, consisting of smithsonite, sphalerite and galena, is found in brecciated light grey dolomites with pervasive thin to medium bedded grey limestones. This unit appears to be continuous across the map area.

A Devonian (?) fossiliferous grey limestone, conformable with the brecciated dolomite, is seen in the northeast corner of and west of the map area and represents a possible distal reefal facies. Dark grey to black shales envelop this dolomitized unit. A pebble conglomerate of red volcanic, dark chert, white quartz and grey shale fragments was noted but is of uncertain relationship to the brecciated dolomite.

A general east-south-east strike is seen but a "structural bend" results in east-north-east trends to the east. Bedding dips to the south. A shale basin appears east of the map area.

SSE SIAN JAM NNW



Silicified Hadrynian Dolomite
Sp, ~~Smith~~, Ga. Low Ag.

Thinly bedded, partially dolomitized, brecciated limestone
Smith, ± Sp ± Ga High Sil. rev.

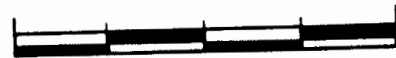


Figure 2

MCINTYRE MINES LIMITED	
SIAN - JAM SECTION	
WORK BY	DATE: OCT 1977
DRAWN BY F	N.T.S.: 106 C 2

GEOCHEMISTRY

In the course of the regional silt sampling program a "kill zone" was located at the head of a small stream. The "kill zone" contained smithsonite and minor sphalerite in a dolomite breccia. Subsequent prospecting on strike to the east located high grade lead-zinc-silver mineralization in a dolomite breccia close to bedrock.

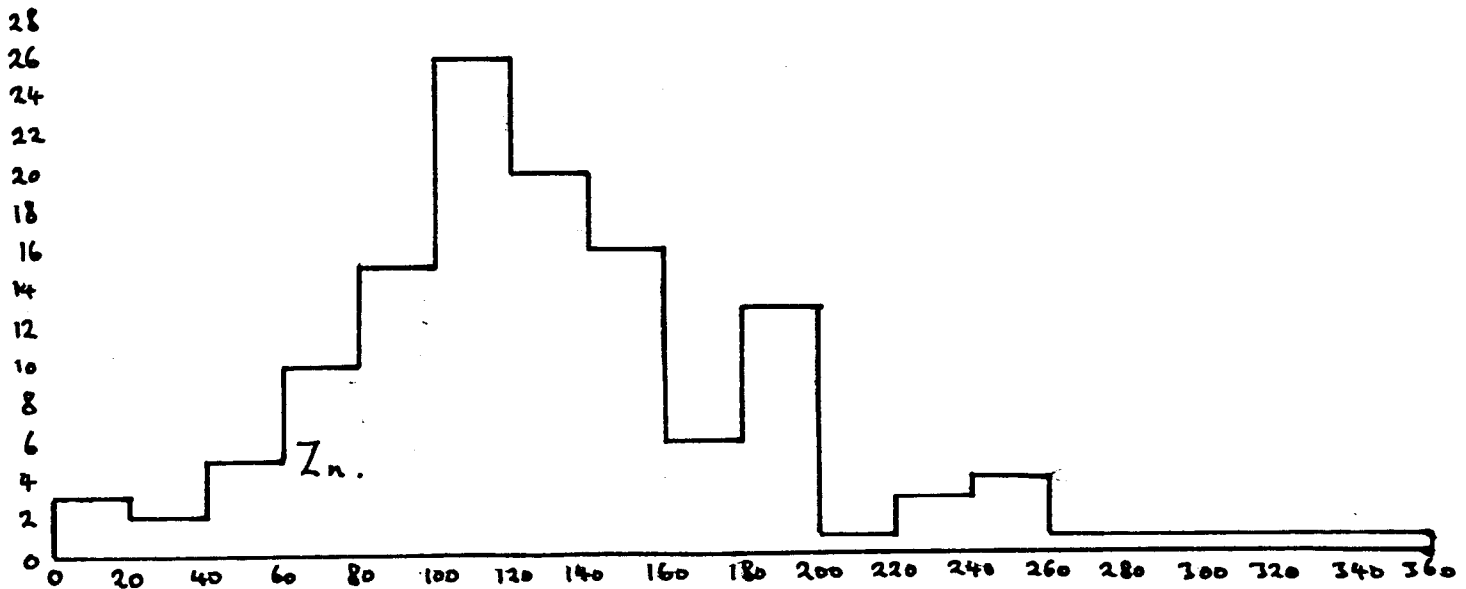
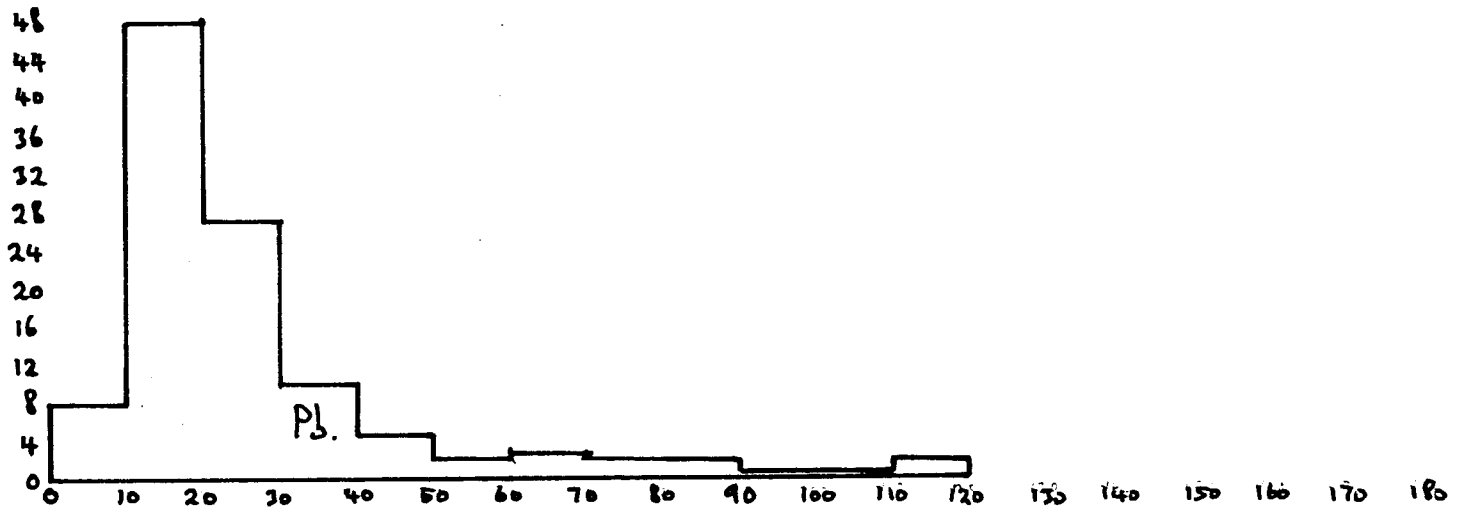
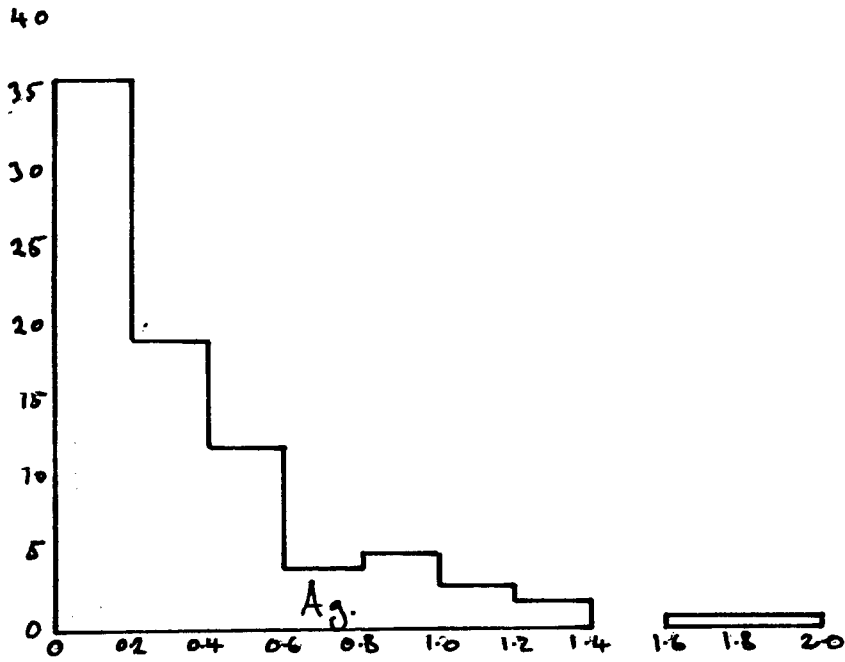
The silt sampling confirmed the presence of anomalous amounts of lead, zinc and silver in the creeks draining the area but the anomalies were fairly subtle. One value was 130 ppm Pb, 2080 ppm Zn, 0.2 ppm Ag whilst another was 154 ppm Pb, 375 ppm Zn and 0.4 ppm Ag.

Since the area was heavily soil covered a 3200' X 2000' grid was put in, centred on the known mineralization, to locate the extensions.

This work outlined an anomaly 1200' long and 400' wide extending from the location of the high grade lead mineralization away to the east. Follow-up prospecting failed to locate more mineralization on surface but further work will be necessary before the area can be written off.

JAM CLAIMS. SOIL.

Figure 3



CONCLUSIONS AND RECOMMENDATIONS

The favourable brecciated dolomite, host rock to the mineralization, is continuous across the claims. However, mineralization appears to be structurally related.

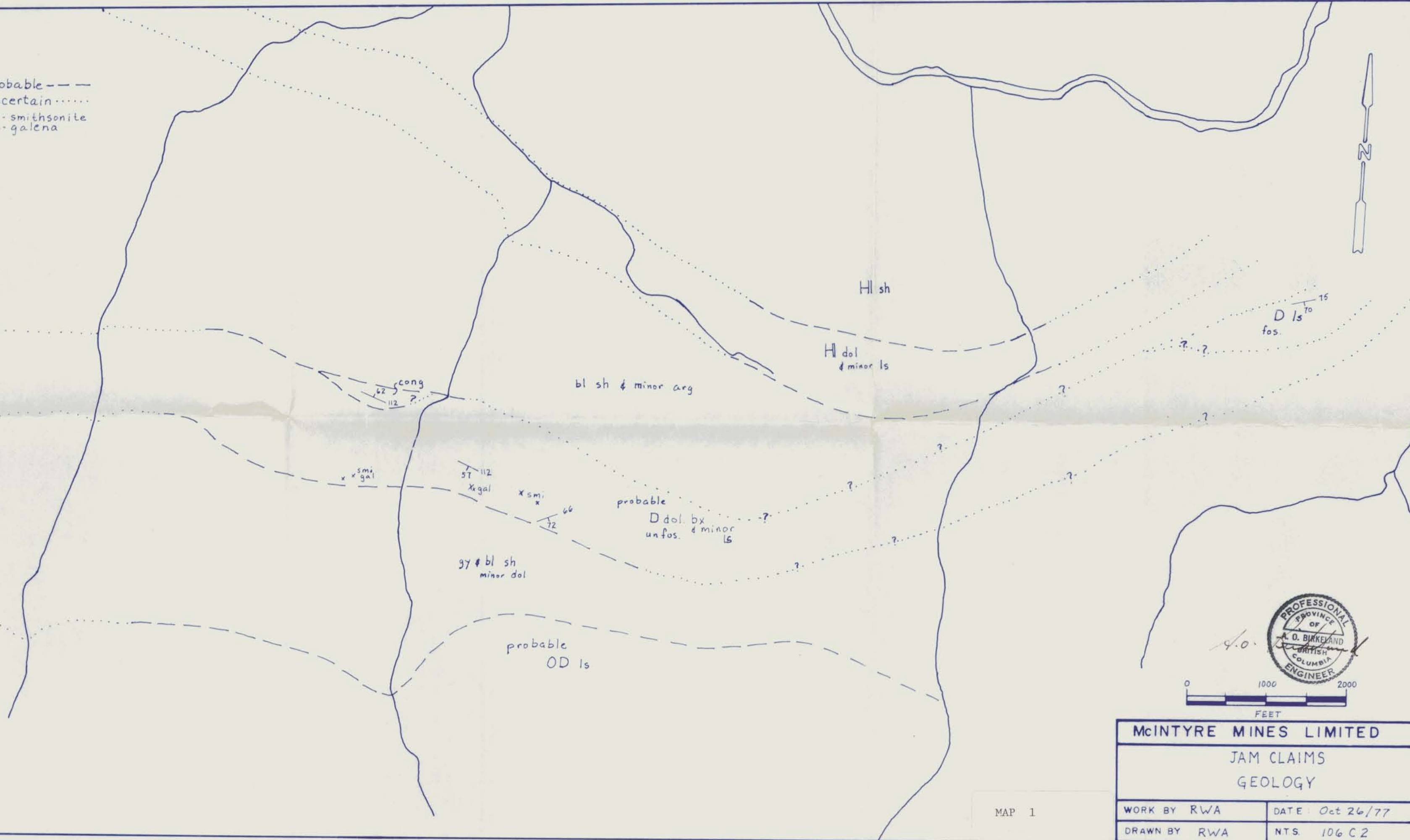
Reconnaissance geology and silt geochemistry programs, conducted in 1977, provided no additional areas of interest, but one week is required to accurately assess and evaluate the claims and immediate area. Further geological mapping and prospecting should be undertaken to accomplish this evaluation.

QUANTITATIVE GEOCHEMICAL ANALYSIS

	Background Mode (ppm)	Weakly Anomalous (ppm)	Strongly Anomalous (ppm)
<u>Zn</u>			
Recce Silts	150	250 - 500	> 500
Craig West Soil	100	250 - 500	> 500
Rod Soils	70	350 - 500	> 500
Jam Soils	110	250 - 500	> 500
<u>Pb</u>			
Recce Silts	5	50 - 100	> 100
Craig West Soils	15	50 - 100	> 100
Rod Soils	35	100 - 200	> 200
Jam Soils	15	50 - 100	> 100
<u>Ag</u>			
Recce Silts	0.1	1.0 - 2.0	> 2.0
Craig West Soils	0.1	1.0 - 2.0	> 2.0
Rod Soils	0.1	2 - 4	> 2.0
Jam Soils	0.1	1 - 2	> 2.0

LEGEND

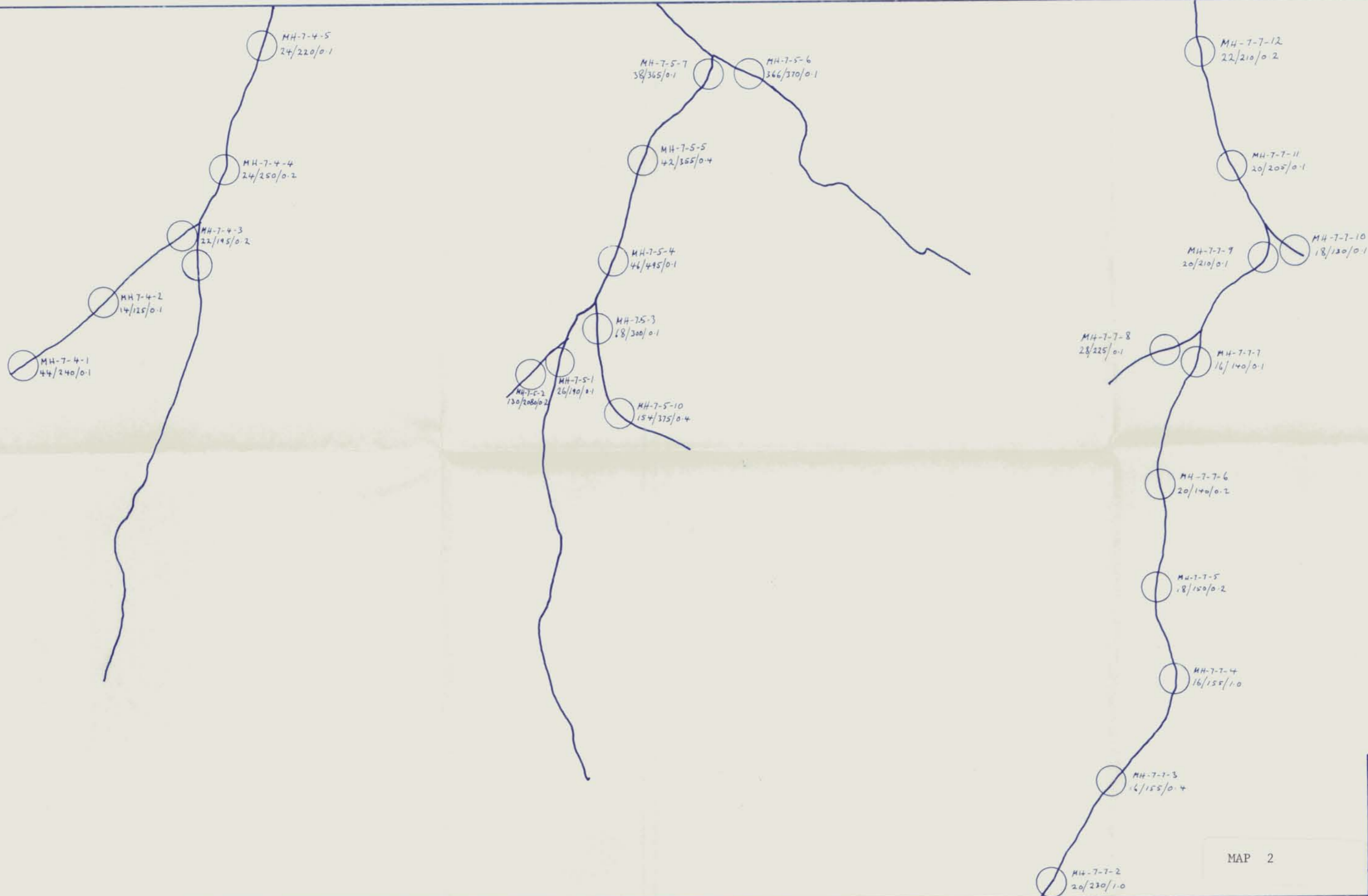
- Geological contacts probable ---
 uncertain
 Mineralization x smi-smithsonite
 gal-galena
 — strike
 dip
 arg-argillite
 cong-conglomerate
 dol-dolomite
 ls-limestone
 sh-shale
 gy-grey
 bl-black
 fos-fossiliferous
 bx-breccia



McINTYRE MINES LIMITED
 JAM CLAIMS
 GEOLOGY

WORK BY RWA	DATE: Oct 26/77
DRAWN BY RWA	NTS. 106 C 2

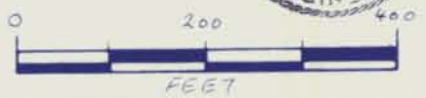
MAP 1



MAP 2

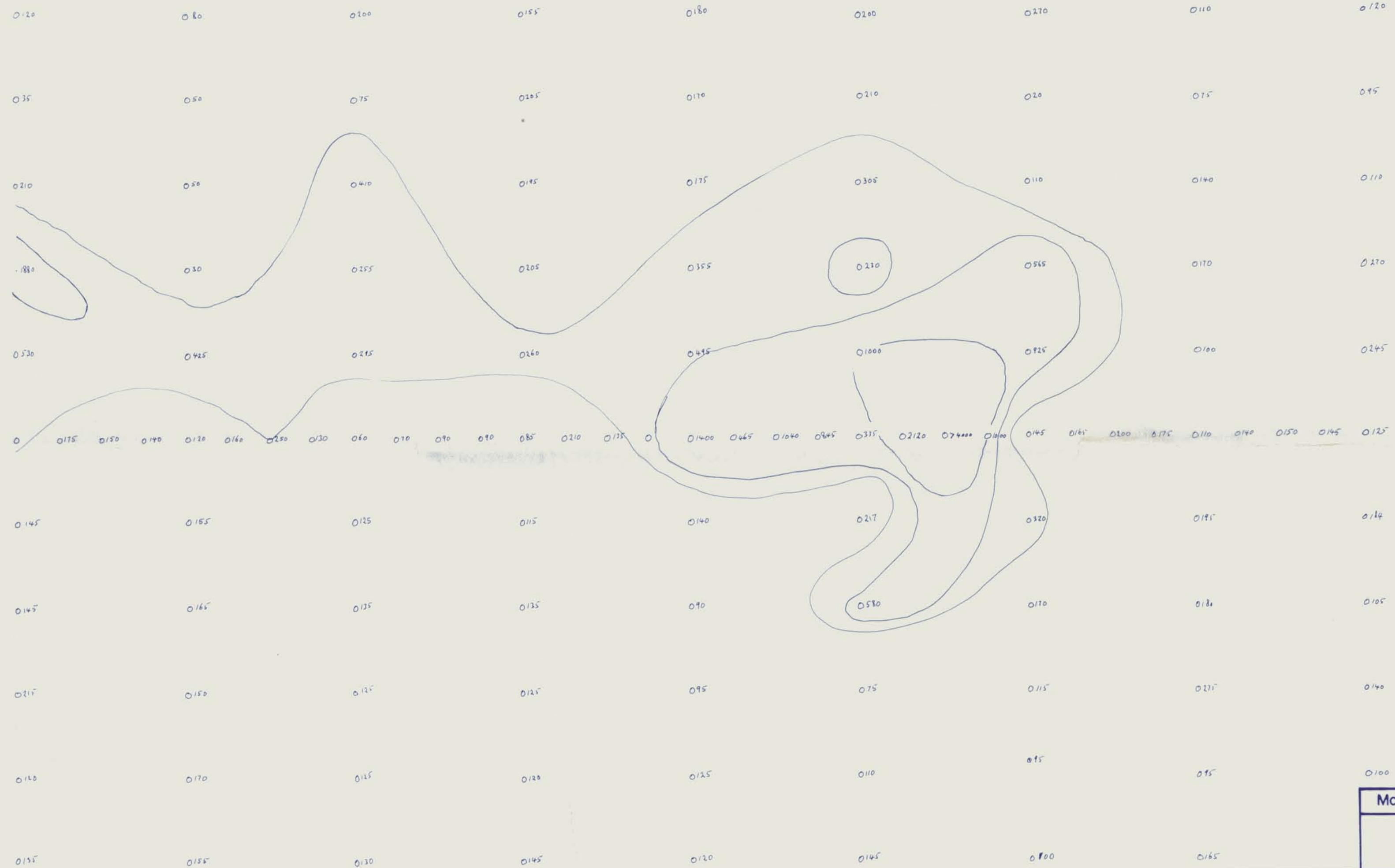


McINTYRE MINES LIMITED	
JAM. CLAIMS	
SILT GEOCHEMISTRY	
WORK BY M.H.	DATE: 5th October, 1977
DRAWN BY F.	N.T.S. 106C 2



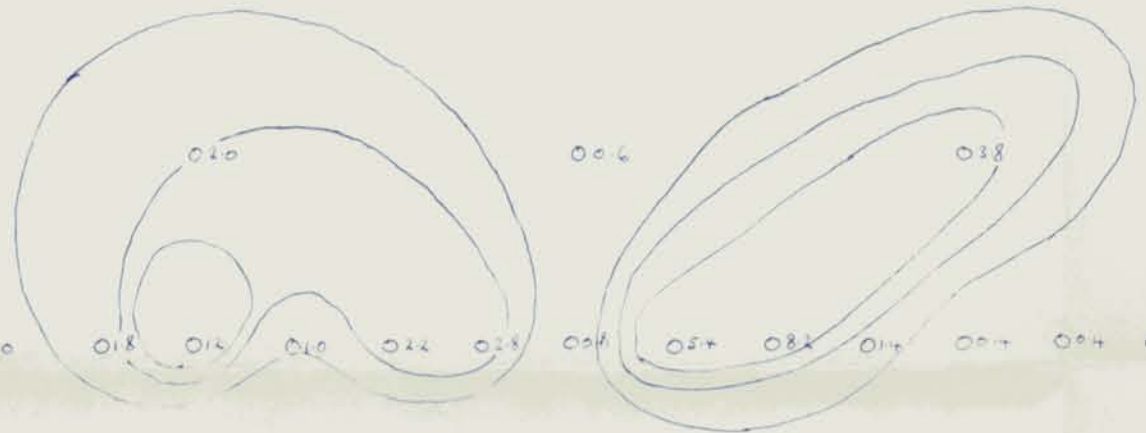
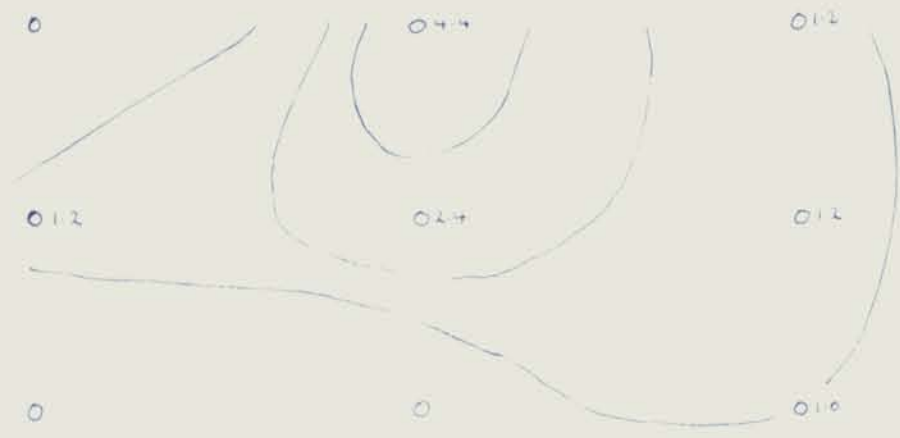
McINTYRE MINES LIMITED	
JAM CLAIMS SOIL GEOCHEMISTRY LEAD - IN PPM.	
WORK BY	DATE OCT 1977
DRAWN BY F	NTS. 10662

MAP 3a

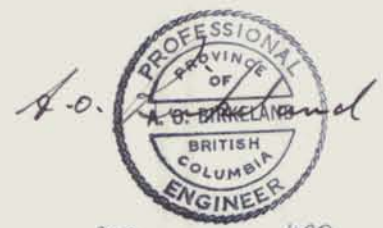


McINTYRE MINES LIMITED	
JAM CLAIMS	
SOIL GEOCHEMISTRY	
ZINC IN PPM	
WORK BY MH, NJ	DATE OCT 1977
DRAWN BY F	NTS. 10602

MAP 3b

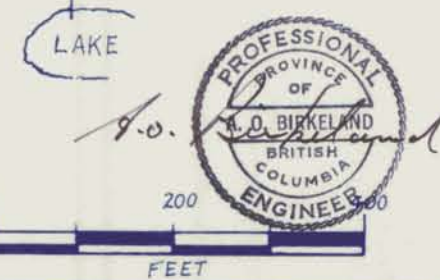
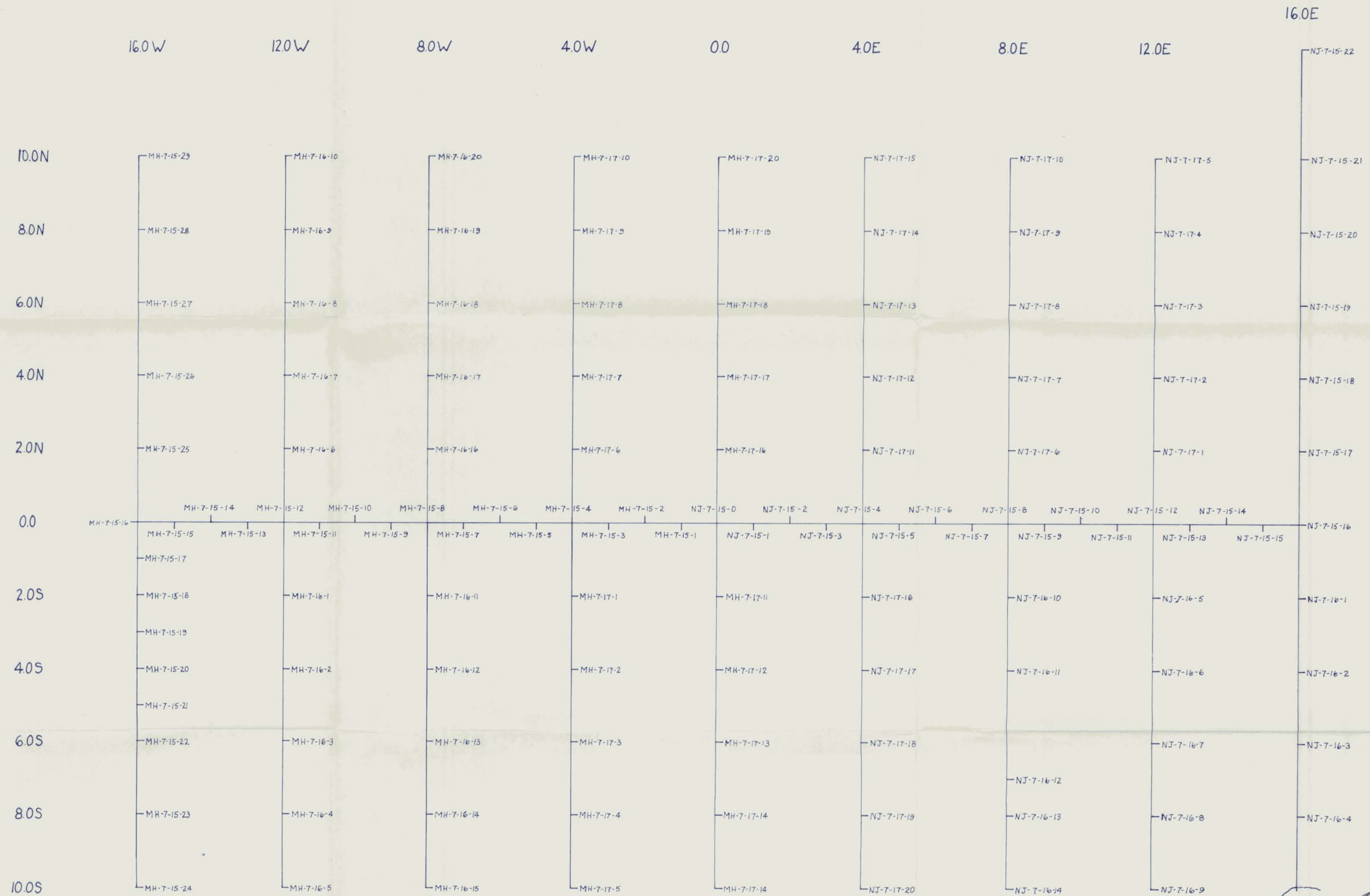


0.12 0.14 0.16 0.18 0.20 0.22 0.24 0.26 0.28 0.30 0.32 0.34 0.36 0.38 0.40 0.42 0.44 0.46 0.48 0.50 0.52 0.54 0.56 0.58 0.60 0.62 0.64 0.66 0.68 0.70 0.72 0.74 0.76 0.78 0.80 0.82 0.84 0.86 0.88 0.90 0.92 0.94 0.96 0.98 1.00



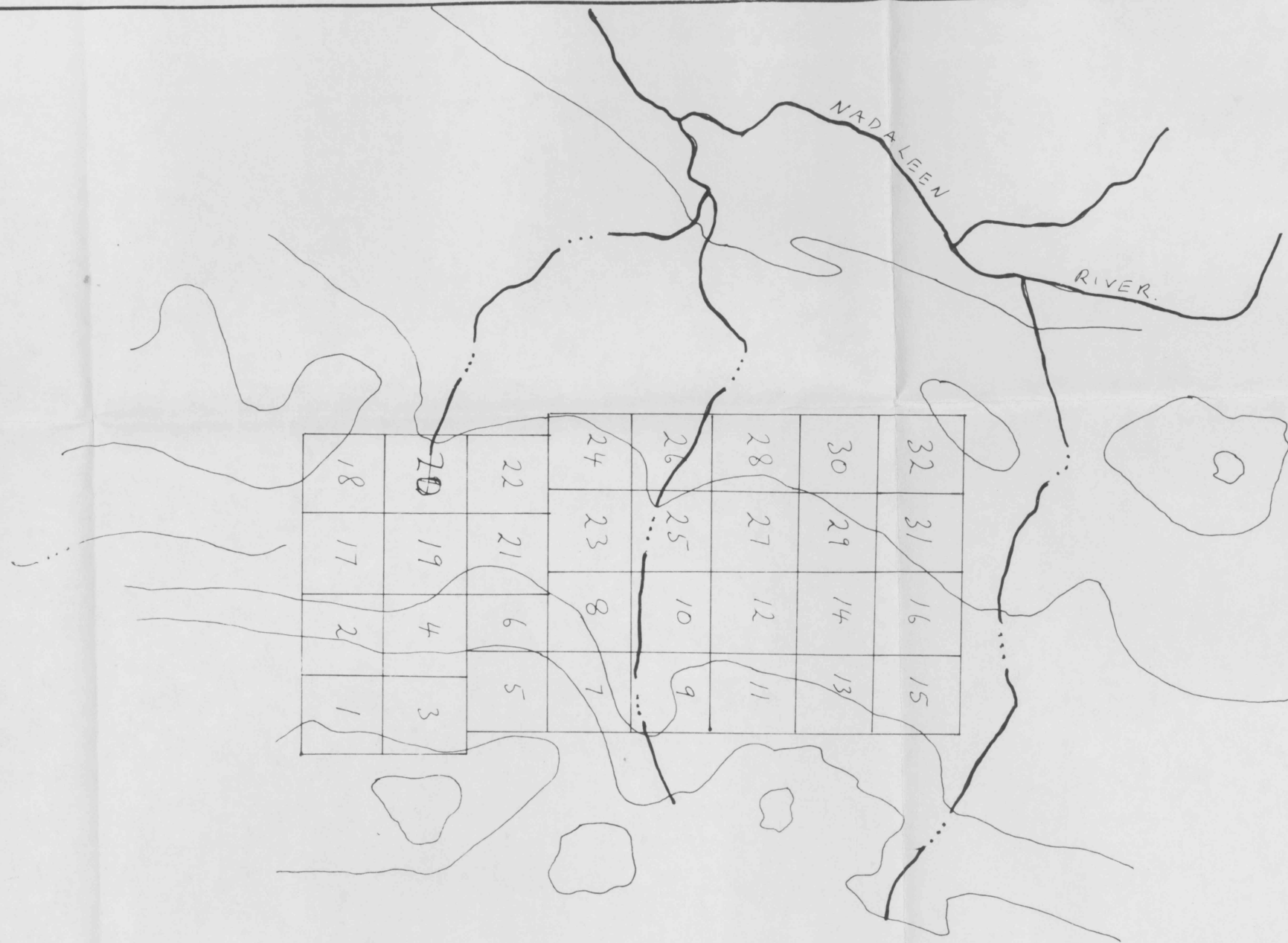
McINTYRE MINES LIMITED	
JAM CLAIMS SOIL GEOCHEMISTRY SILVER IN PPM.	
WORK BY MH, NJ	DATE OCT 1977
DRAWN BY F	NTS. 10662

MAP 3c

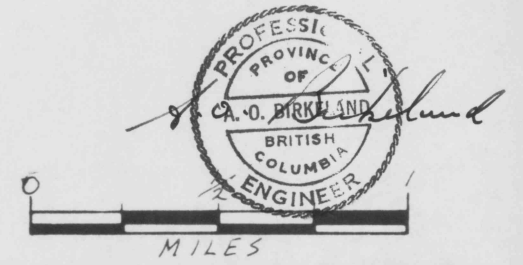


McINTYRE MINES LIMITED	
JAM CLAIMS	
GEOCHEMISTRY BASELINE GRID	
WORK BY MH & NJ	DATE: Oct 25/77
DRAWN BY RWA	NTS. 106 C 2

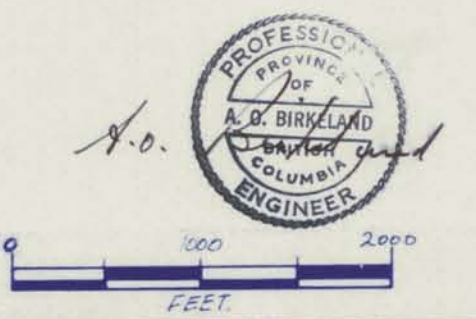
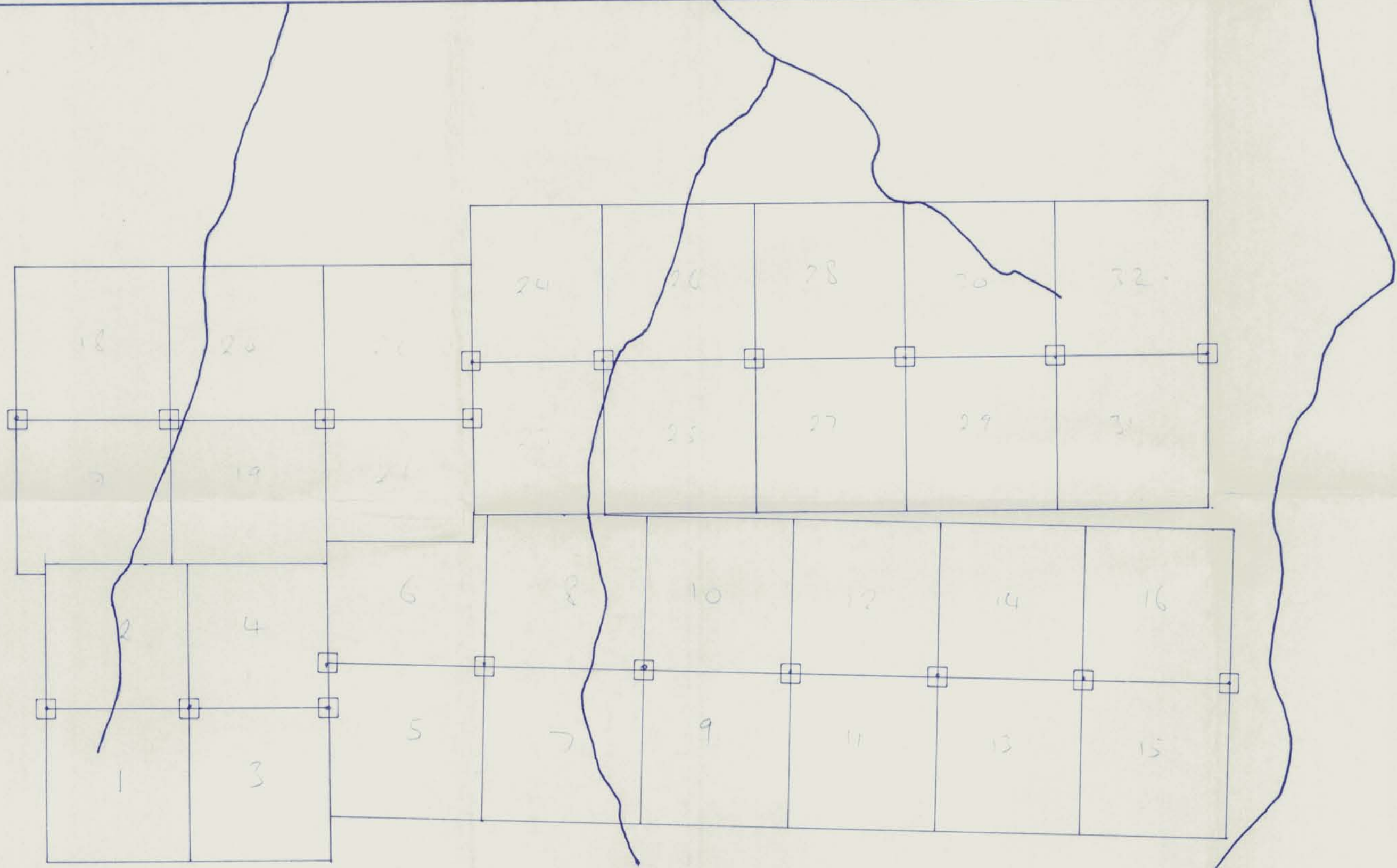
MAP 3d



MAP 4



McINTYRE MINES LIMITED	
JAM CLAIMS 1-32.	
WORK BY	DATE: 8th Sept 1977
DRAWN BY: F	NTS: 106 C 2.



McINTYRE MINES LIMITED	
JAM CLAIMS POST LOCATIONS	
WORK BY	DATE: 26th Sept. 1977
DRAWN BY F	N.T.S.: 10662.

MAP 5