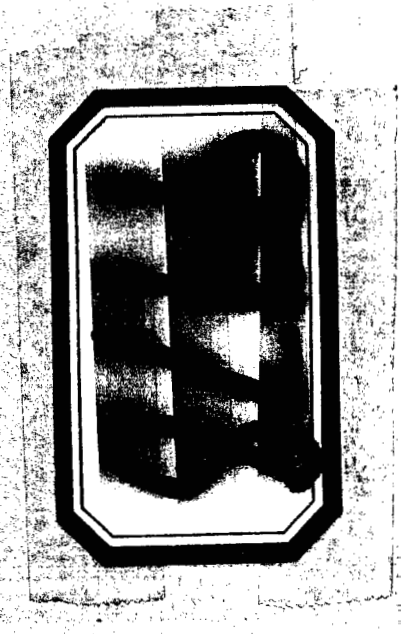
81-1201-9978

ASSESSMENT REPORT
MOE 6 Group, Atlin M.D.

G.A. Noel
S. Presunka
J. Wilson
F. Dispirito
P.A. Cartwright

January 23, 1982
Delta, B.C.



GEOLOGICAL, GEOPHYSICAL, AND GEOCHEMICAL WORK

MOE6, MOE7, Treadwell

Atlin M.D. NTS 114P/10E

Lat: 59°, 34' N

Long: 136°, 35' W

OWNER: Falconbridge Nickel Mines Ltd.

OPERATOR: FALCONBRIDGE NICKEL MINES LTD.

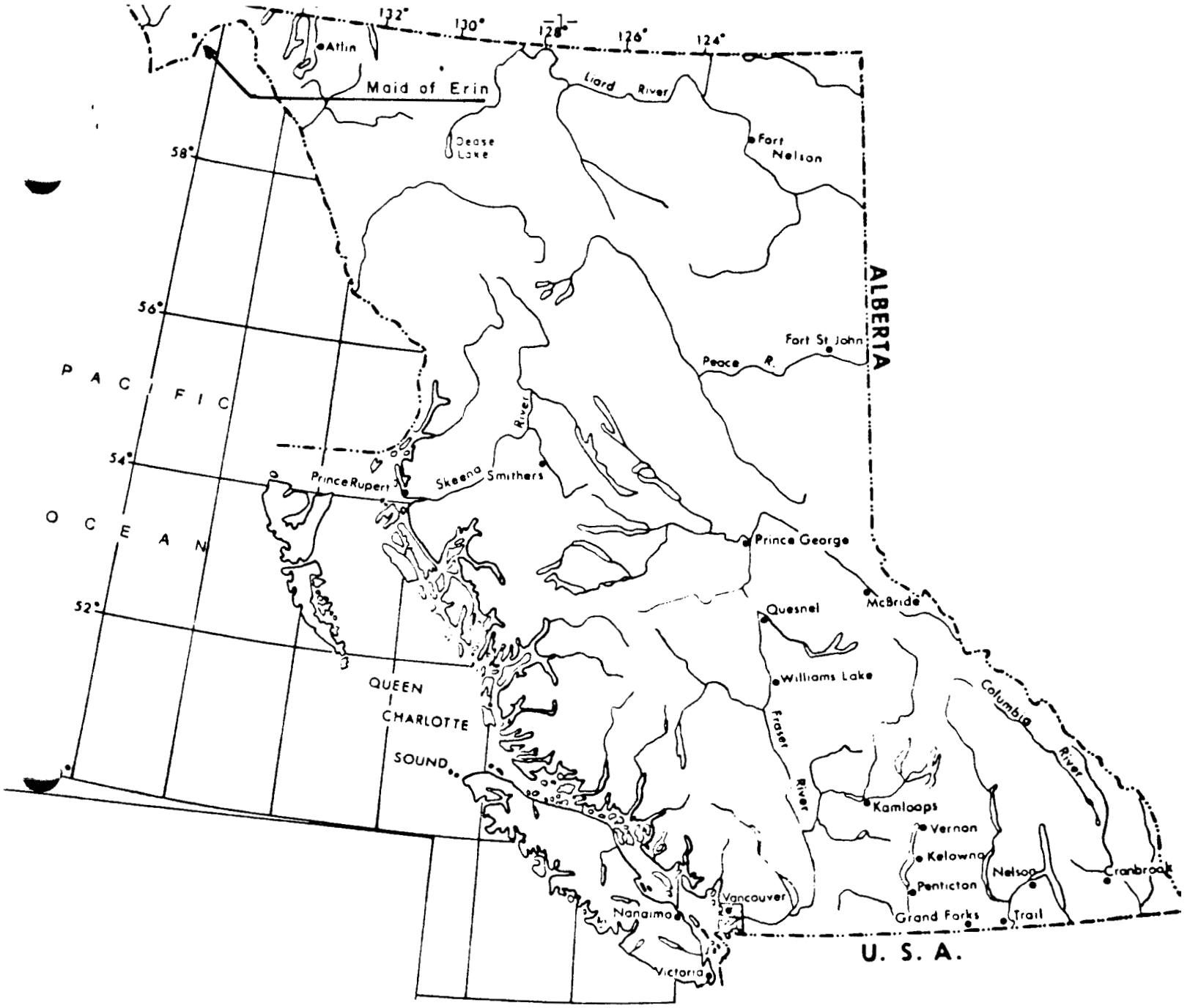
Authors: G.A. Noel, (G.A. Noel and Associates Inc.)
S. Presunka, (Presunka Geophysical Explorations Ltd)
J. Wilson, (Falconbridge Nickel Mines Ltd.)
F. Dispirito & P.A. Cartwright (Phoenix Geophysics Ltd)

Date Submitted: January 27, 1982

TABLE OF CONTENTS

FIGURES

FIGURES (contd)

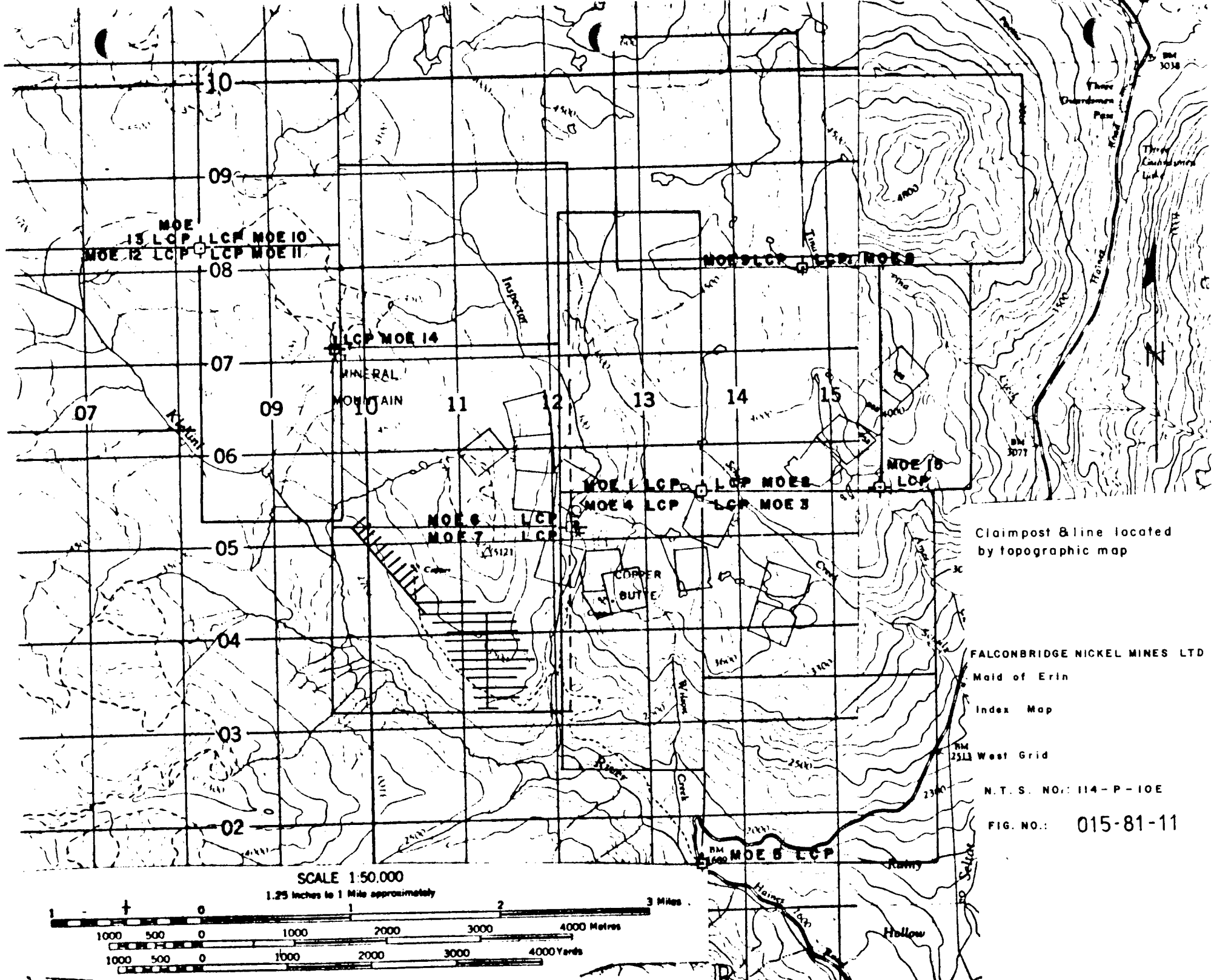


INDEX MAP

BRITISH COLUMBIA

150 0 150 300 450 Km.

SCALE 1: 7·500·000



Claimpost & line located by topographic map

FALCONBRIDGE NICKEL MINES LTD

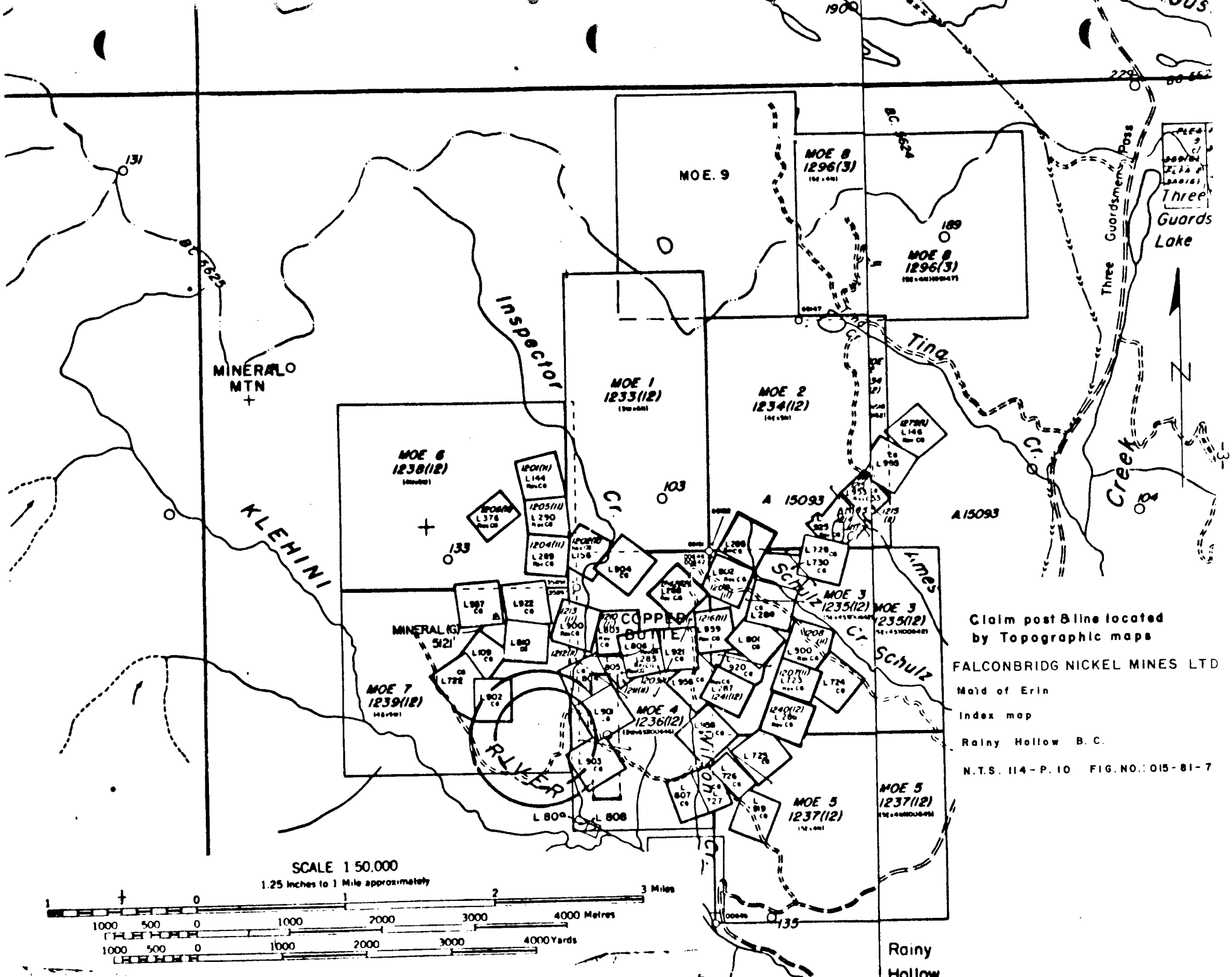
Maid of Erin

Index Map

West Grid

N.T.S. NO.: 114-P-10E

FIG. NO.: 015-81-11



Claim post & line located by Topographic maps

FALCONBRIDG NICKEL MINES LTD

Maid of Erin

Index map

Rainy Hollow B. C.

N.T.S. 114 - P. 10 FIG. NO.: 015 - 81 - 7

SCALE 1 50,000

1.25 Inches to 1 Mile approximately

3 Miles

4000 Metres

4000 Yards

Rainy
Hollow

INTRODUCTION

MOE 6 (20 units) and MOE 7 (20 units), were staked in 1980. A reverted, crown-granted 2-post claim that was acquired in 1980 is Treadwell (L 376). The above claims were grouped as the MOE 6 Group in 1981.

The current owner and operator is Falconbridge Nickel Mines Ltd.

The claims are in the Coast Mountains, about 18 kilometres northwest from Pleasant Camp on the Alaska - B.C. border. The Haines - Haines Junction highway is 5 kilometres east of the claims and an old mining has been upgraded to provide access onto the claims.

The claims contain several crown granted mineral claims that had been worked intermittently since about 1900. The deposits are replacement types occurring in sedimentary rocks (argillites, quartzites, limestones and gneisses) that have been intruded by a large body of granodiorite and quartz diorite. The sedimentary rocks generally strike northwesterly and dip gently to the northeast.

Most skarn deposits carry bornite, chalcocite, pyrrhotite, chalcopyrite, and pyrite. The silver content of the copper rich zones is usually significant.

Although skarn deposits are usually considered small and erratic, the grade is encouraging. For example, according to K. De P. Watson, (B.C.D.M. Bull .25, 1948), early shipments of ore from the Maid of Erin crown grant (157 tons) yielded 77,658 lb. of copper, 5849 oz. of silver and 6 oz. of gold.

PHYSICAL WORK

23 kilometres of grid (West Grid) were established by Terrex Mining Services Ltd. and company personnel, (Fig 015-81-11 and 015-81-7). Work consisted of picketing grid lines spaced at 50 metre intervals. Marked station pickets were placed every 50 metres along individual lines.

The grid and all subsequent grid based surveys were carried out mainly on the MOE 7 claim. A small portion of the grid extends onto MOE 6.

INTRODUCTION (contd)

SUMMARY OF WORK

Several surveys were conducted over the claims following establishment of the grid. 113 soil samples were collected from the B horizon and were analyzed by Bondar-Clegg and Co. Ltd. for Cu, Pb Ag, Zn, and W. They were later analyzed by ACME Analytical Laboratories Ltd. for these plus more elements. EM 16, magnetometer, and I.P. surveys were each conducted over 10.2, 16.3, and 9.6 km. of grid respectively. Geological mapping at a scale of 1:2500 used the grid for control. The area mapped was about 1 square kilometre.

John R Wilson

STATEMENT OF COSTS

PHYSICAL WORK

Contractor ((Terrex Mining Services Ltd.)	
July 20-26, 4 men, 23 kilometres of grid @ $123.60/km	$ 2,842.80
Laths	32.00
Paint	16.00
Board for above (July 20-26) 4 men, (28 man days) @$20.00/day	560.00
Supply costs for above 28 man days @ $20.00/day	560.00
4 x 4 Truck Expenses	
July 20-26, (7 days) @ $240.00/week	960.00
Supervision	
July 20, (1 day) @ $110.00/day	110.00
TOTAL PHYSICAL WORK	$ 5,080.80

GEOLOGICAL MAPPING

Consultant (G.A. Noel)	
July 20-Aug 22, (34 days) @ $300.00/day	10,200.00
Board for above, 34 days @ $20.00/day	680.00
Supply costs for above @ $20.00/day	680.00
4 x 4 Truck Expenses	
July 20-Aug 22, 4 weeks @ $240.00/week	960.00
TOTAL GEOLOGICAL WORK	$12,520.00

GEOCHEMISTRY

Sampling:	
1 man Aug. 5 to Aug 13 (9 days) @ $53.00/day	$ 477.00
Board for 9 days @ $20.00/day	180.00
Supply costs for above 9 man days @ $20.00/day	180.00
113 samples analysed by Bondar-Clegg & Co. Ltd. for Ag, Cu, Pb, Zn, W. @ $7.75/sample	875.75
113 samples prepared @ .60¢/sample	67.80
113 samples analyzed by ACME Analytical Laboratories Ltd. @ $5.50/sample	621.50
Producing maps of soils geochemistry values (ACME's ICP results) by computer plotting	
Data Input (H.A. Simons International Ltd)	218.00
One map showing sample number and 26 maps showing single elements (contoured) (H.A. Simons International)	1,600.00
TOTAL GEOCHEMISTRY WORK	$ 4,220.05

GEOPHYSICS

Induced Polarization and Resistivity (from Page 8 of Phoenix report)

Contractor - Phoenix Geophysics Ltd.

Aug 7 to Aug 21, 3 men (10.2 km)	
7 operating days @ $675.00/day	4,725.00
2 travel days @ $335.00/day	670.00
2 bad weather days @ $335.00/day	670.00
extra labour 12.72 days @ $72.00/day	918.00
mobilization, demobilization	1,209.64
TOTAL CONTRACT COSTS	$ 8,192.64
Board for above (33 man days) @ $20.00/day	660.00
Supply costs for above 33 man days @ $20.00/day	660.00

Magnetometer

Contractor - Presunka Geophysicsical Exploration Ltd.

Aug 11 - Aug 15, 1 man, (5 days) @ $75.00/day	375.00
Aug 14 - Aug 15, 1 man, (2 days) @ $250.00/day	500.00
Board for above, 7 days @ $20.00/day	140.00
Supply costs for above 7 man days @ $20.00/day	140.00

GEOPHYSICS (contd)

EM

Contractor - Presunka Geophysical Explorations Ltd.

Aug 5 - Aug 10, 1 man (6 days) @ $75.00/day	450.00
Aug 6 - Aug 10, 1 man (5 days) @ $250.00/day	1,250.00
Board for above 11 man days @ $20.00/day	220.00
Supply costs for above 11 man days @ $20.00/day	220.00
TOTAL GEOPHYSICAL WORK	$12,807.64

SUPERVISION AND REPORT

Planning and Supervision of Geochemistry and Geophysics

1 man, (4 days) Aug 5,6,8,11 @ $110.00/day	440.00
Board for above 4 days @ $20.00/day	80.00
Supply costs for above 4 man days @ $20.00/day	80.00

Report Preparation

Organizing & writing, 3 days @ $110.00/day	330.00
Drafting - 1 day @ $110.00/day	110.00
- 4 days @ $70.00/day	280.00
Typing and assembly, 1 day @ $90.00/day	90.00
Printing & Copying	50.00
TOTAL SUPERVISION & REPORTING	$1,460.00

distributed between

GEOCHEMISTRY	$730.00
GEOPHYSICS	$730.00

STATEMENT OF QUALIFICATIONS

John Wilson graduated from the University of British Columbia in 1972 with a BSc (honours) in geology. He has worked for Falconbridge Nickel Mines since 1972 and was supervisor of this project.

SECTION A

REPORT ON MAID OF ERIN MAPPING - 1981

G.A. Noel

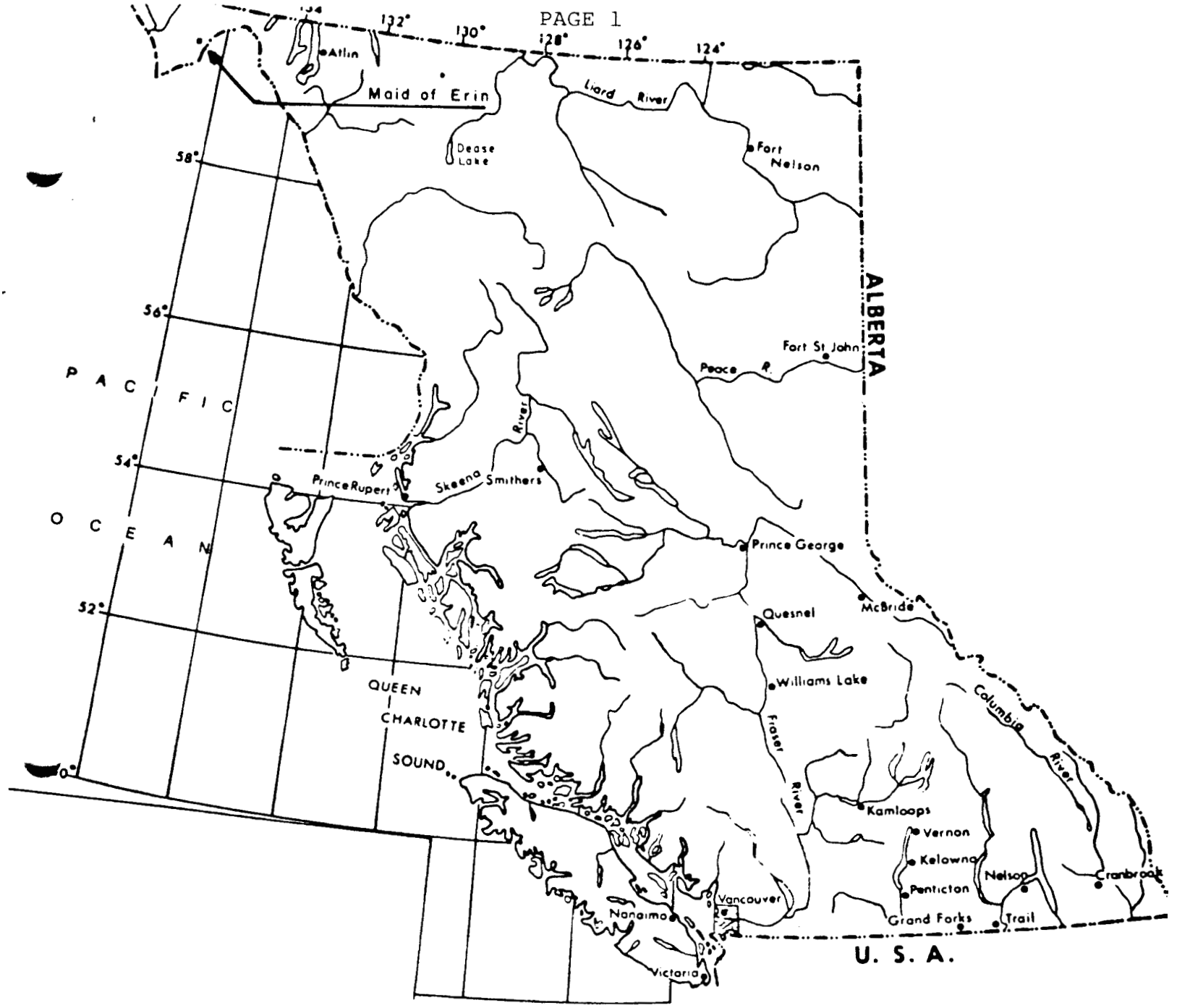
NTS 114/P10E PN 015

December 1981

Report # 14-015-81

TABLE OF CONTENTS

FIGURES

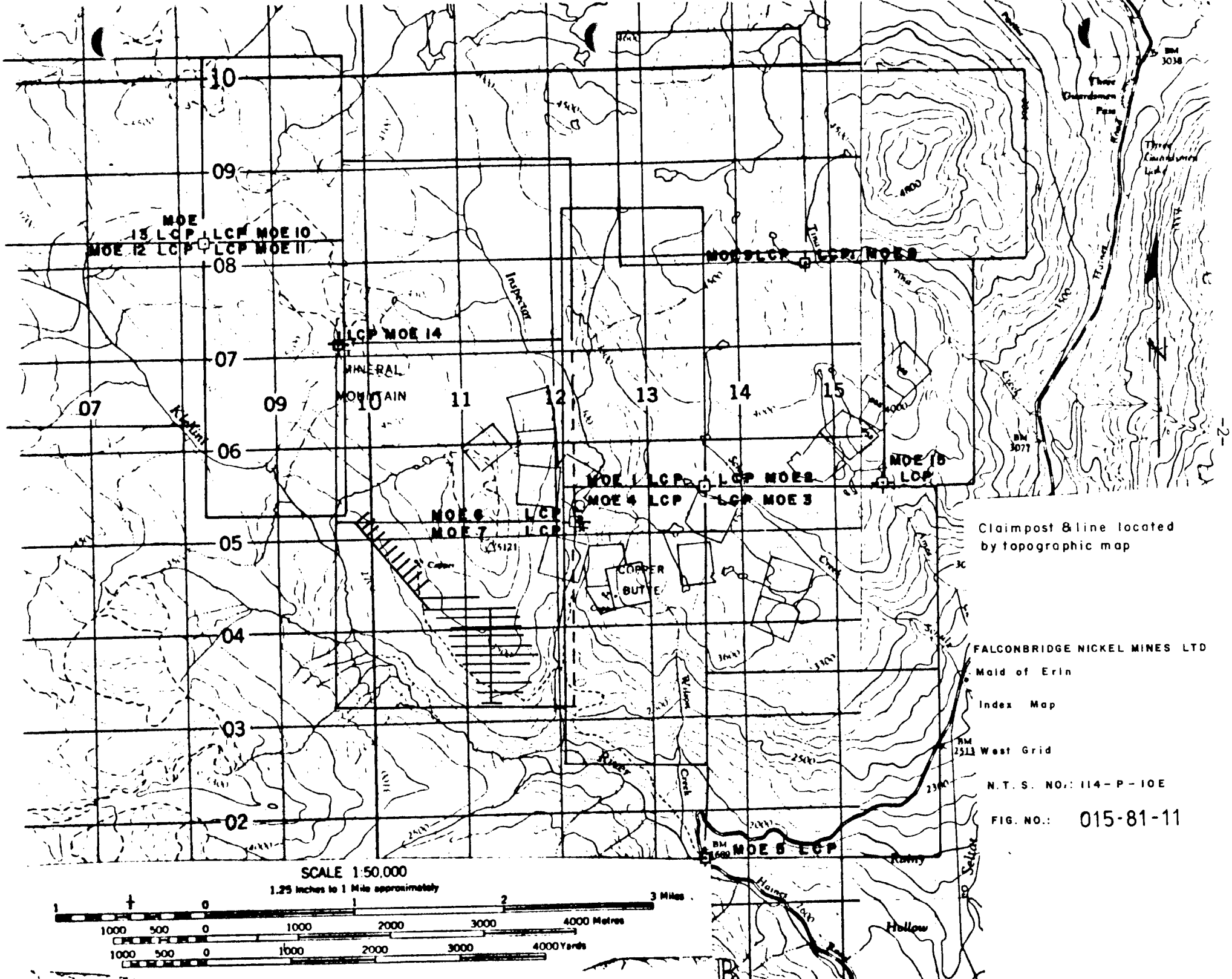


INDEX MAP

BRITISH COLUMBIA

150 0 150 300 450 Km.

SCALE 1: 7·500·000


MOE 15 LCP
LCP MOE 10
MOE 12 LCP
LCP MOE 11
LCP MOE 14
MINERAL MOUNTAIN
MOE 9 LCP
LCP MOE 8
MOE 16 LCP
MOE 1 LCP
LCP MOE 2
MOE 4 LCP
LCP MOE 3
MOE 6 LCP
MOE 7 LCP
COPPER BUTTE
MOE 5 LCP
Claimpost & line located by topographic map
FALCONBRIDGE NICKEL MINES LTD
Maid of Erin
Index Map
West Grid
N.T.S. NO.: 114-P-10E
FIG. NO.: 015-81-11
SCALE 1:50,000
1.25 Inches to 1 Mile approximately
3 Miles
4000 Metres
4000 Yards

REPORT ON MAID OF ERIN MAPPING - 1981

SUMMARY

From July 20 to August 20, 1981 geological mapping at a scale of 1:2500 was done on the Maid of Erin property covering an area one kilometre square. This work resulted in delineating the geological setting of five mineralized skarn zones of economic interest. The most important zone is that centered on the main Maid of Erin workings. This zone of copper-silver mineralization has been defined for about 150 metres along strike and 50 metres down-dip with a thickness of about 8 metres. It dips about 15° to the northeast. The ultimate size and grade of this zone can only be determined by drilling.

INTRODUCTION

The author was engaged by Falconbridge Nickel Mines Ltd. in July 1981 for some detailed geological mapping and interpretation of the geology on the Maid of Erin property in the Rainy Hollow area, Atlin Mining Division B. C. This fieldwork was conducted out of Falconbridge's field camp on the property between July 20 and August 20, 1981. The author worked directly for John Wilson, Falconbridge's supervisor on the project. Of 31 days in the field, 22 were spent mapping surface and underground geology, 3 days were spent plotting maps and sections, 4 days were spent on geological reconnaissance and orientation and 2 days were spent on control for mapping. The purpose of this work was to determine the control and environment of the copper-silver mineralization on the Maid of Erin property.

FIELDWORK

Considerable reference data was provided by Falconbridge including reports on the property by Dr. K. D. P. Watson, Dr. Alex Smith, J. J. McDougall and C. M. Campbell, as well as numerous supporting maps. The more important of these are listed under "References" below.

At first it seemed quite adquate to use Alex Smith's 1:2400 1949 geological maps reduced to 1:2500 as a base. Due to differences in control, geological interpretation and road location it was decided to start from scratch. Accordingly mapping was done on 8½" X 11" mylar field sheets at 1:2500 scale using a compass and tape road survey and the picket line geochem-geophysics grid as control. This control proved generally adequate since the grid was based on a transit and chain north-south base line. However the picket lines did show some divergence from ideal east-west lines both east and west of the baseline and required tying at the ends. Mapping of the Maid of Erin underground workings was done at a scale of 1:250. More detailed mapping of the main mineralized area was originally considered but it was felt that the small high grade pockets of ore were not as important as the entire mineralized zone in determining the minability of the deposit. As a result, the mineralization has been represented in the mapping in a stippled pattern rather than showing actual ore shapes.

The area covered by surface mapping is about one kilometre by one kilometre with a small extension to the northwest along the tractor road. In addition to geology, all surface features such as roads, drainages, sinks, claim posts, trenches, pits, tunnels, talus areas, etc. have been shown on the map .

Initially two days were spent on orientation traverses to establish lithologies and styles of alteration and mineralization. Specimens of each rock type as well as specific examples of alteration and mineralization were collected at the time of mapping.

The field sheet data was transferred to a base map and the outcrop detail was then color coded. By extrapolation and geological interence a complete geological map was eventually compiled. From the completed surface and underground maps a general cross section at a scale of 1:2500 through the south end of Mineral Mountain was constructed as well as a longitudinal section and a cross section both at 1:500 scale through the main mineralized zone on the Maid of Erin claim.

RESULTS

Six lithologic units were defined on the property. These are from youngest to oldest as follows: quartz diorite, argillite, quartzite, limestone, biotite gneiss and hornblende diorite gneiss. The argillite is a very fine grained black well-bedded rock which is somewhat siliceous in places and commonly iron oxide-stained on weathered surfaces. It shows variable pyrite and pyrrhotite both disseminated and along fractures. The quartzite is of metamorphic origin and is generally biotitic and/or feldspathic. It is a brown, fine grained, thin bedded rock with slightly gneissic texture due to variable amounts of black biotite. It shows iron oxide coatings on weathered surfaces due to disseminated pyrite and pyrrhotite.

The limestone is generally a well-bedded grey and white rock which is in places metamorphosed to coarse grained white marble. It has a slightly fetid odor locally.

The biotite gneiss is a light to dark grey medium to coarse grained rock which shows good foliation with white quartz and feldspar bands interlayered with black biotite.

The hornblende diorite gneiss unit is grey to black, fine to coarse grained, non magnetic and generally foliated. It shows a little finely disseminated pyrite and pyrrhotite locally.

The quart diorite is a medium grained white, non-magnetic crystalline rock with biotite as an accessory mineral.

These rocks are part of the metasedimentary assemblage which constitutes the Rainy Hollow pendant. This section at the south end of Mineral Mountain and west of Inspector Creek is in the form of an open syncline which plunges to the northwest at about 20^{o}. To the east this structure warps over into an anticline with its axis along Inspector Creek. The beds show minor warping across the synclinal structure as well as cross-folding along the west limb of the syncline (see Sections C-D and E-F). Several large northeast trending transverse faults cut the section with little apparent dislocation.

Tactite alteration affects all units except the argillite and quartz diorite. The tactite alteration includes green and brown andradite garnet,diopside, monticellite, epidote,wollastonite and vesuvianite. The monticellite and vesuvianite were not identified in the field. The tactite alteration also includes a pervasive silicification which grades into the meta-quartzite. The tactite alteration can be separated into a number of mappable units as: garnet-diopside skarn-both massive and grained; banded skarn (thinly banded); skarn-altered gneiss; and silicification.

Minerals associated with the tactite alteration include : bornite, chalcopyrite, sphalerite, galena, magneite, pyrite, pyrrhotite and wittichenite (not identified in the field). The mineralization occurs in several fairly broad contact zones as well as in a number of small isolated, minor structures involving limestone and skarn. Five fairly significant mineralized zones have been defined on the map. Zone 1 is the Maid of Erin zone which has been defined for about 300 metres. In this zone bornite with minor chalcopyrite occurs as blebs and small pods in a granular brown and green garnet skarn up to 10 metres thick. This unit dips flatly (15^{o}) to the northeast as shown in Section A-B. It is defined for about 150 metres along strike and about 50 metres down-dip by underground and surface workings and diamond drill holes. It is overlain by a banded skarn and underlain by a thick section of limestone. Along strike it shows an undulating form - see Section E-F. Mineralization in the skarn unit of Zone 1 is quite variable in distribution with high grade pods, dissemination and barren sections. Sampling across the entire section is required to give some idea of average grade.

Zones 2 & 3 are about 100 and 150 metres respectively below Zone 1 and overlie and underlie a limestone band about 30 metres above the quartz diorite contact. These zones show chalcopyrite, pyrite, spahlerite and some bornite in a banded garnet skarn. Each of these zones may be up to 10 metres thick but the mineralization is probably extremely variable over this thickness. Surface sampling should give some indication of grade across the zones. The zones are up to

200 metres in length.

Zone 4 is associated with the southernmost limestone band in the Maid of Erin section. It consists of diopside skarn with pyrrhotite, sphalerite, chalcopyrite and pyrite trending northeasterly. The skarn-limestone contact is sheared and dips steeply southeast but the limestone bedding dips noderately northwest. The zone is at least five metres wide but has only been traced for about 30 metres in surface workings. The skarn section is underlain to the southeast by quartzite.

Zone 5 is about 600 metres northwest of the Maid of Erin workings at about the same elevation. It consists of a garnet-diopsie skarn-limestone section with finely disseminated chalcopyrite and pyrite and in places some bornite irregularly distributed through certain bands. The entire zone is at least 15 metres thick but the grade over this section is probably quite low. Careful surface sampling is required to assess its worth.

CONCLUSIONS AND RECOMMENDATIONS

The Maid of Erin property has a number of interesting mineralized skarn zones. The primary zone (Zone 1) over the main workings should be sampled over its entire width at surface as well as underground to indicate its average grade. If this zone shows worthwhile copper and silver values it should be drilled to establish its continuity both down-dip and along strike.

Maid of Erin
August 21, 1981

G. A. Noel

REFERENCES

Campbell C. M. Jr (1955 - 1956):

Maid of Erin Progress Reports to October 23, 1956, Private Reports for F.N.M.

Campbell C. M. Jr (1957):

Work of the 1955 - 1956 Summer Seasons, Private reports for F.N.M.

Smith, A. (1943):

Report on the Maid of Erin Mine, Rainy Hollow, B. C., Private report for Falconbridge Nickel Mines Limited

Smith, A. (1949):

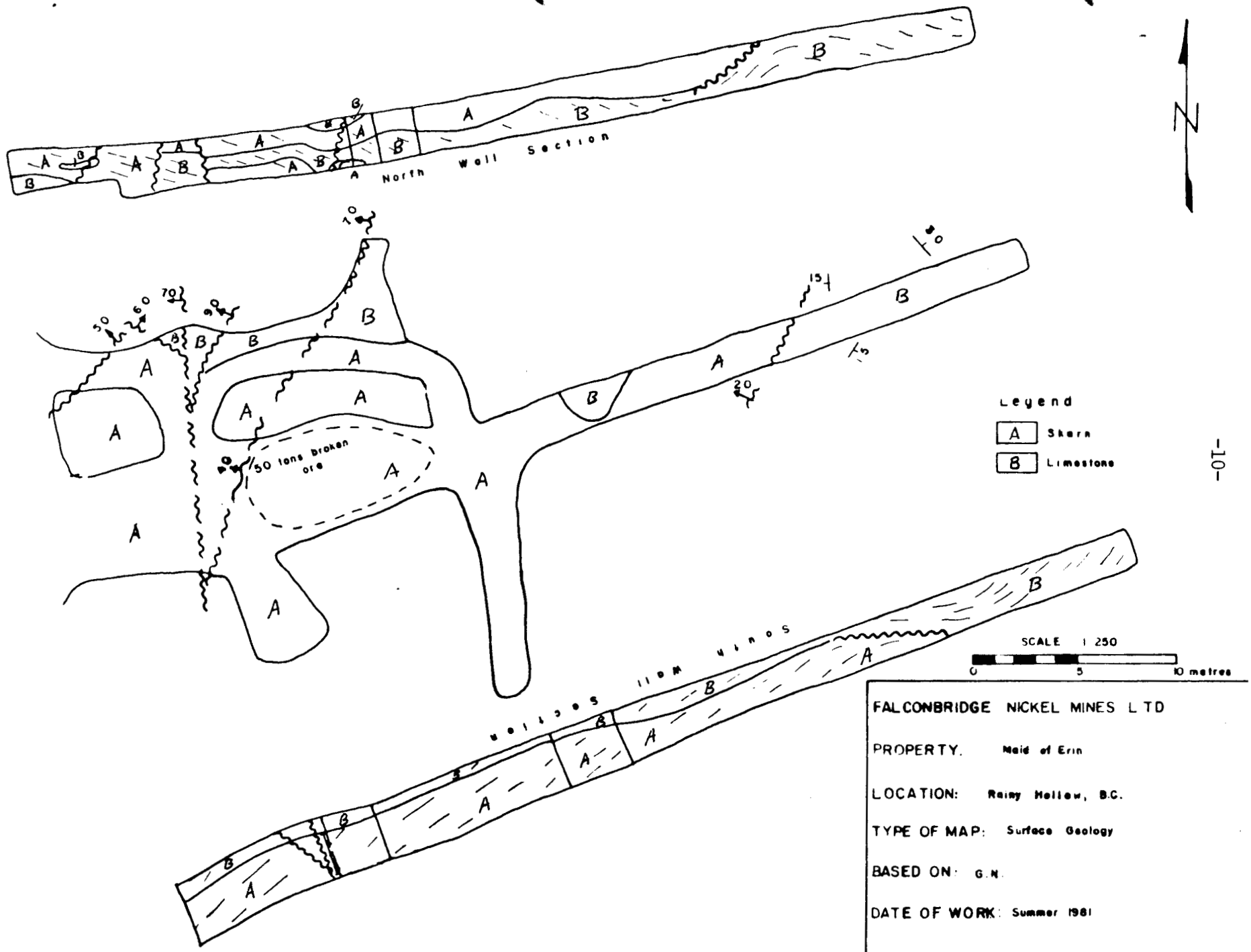
Report on Maid of Erin Mine, Rainy Hollow, B. C., Private report for Falconbridge Nickel Mines Limited

Watson, K. De P. (1948):

The Squaw Creek - Rainy Hollow Area, Northern B. C., Dept. of Mines Bulletin No. 25.

STATEMENT OF QUALIFICATIONS

G.A. Noel is a graduate of the University of British Columbia and received a MASc in geological engineering from the University of Toronto. He has practiced his profession for over 25 years and is a professional engineer registered in the province of British Columbia.


North Wall Section
50 tons broken ore
Legend
A Skarn
B Limestone
SCALE 1 250
0 5 10 metres
FALCONBRIDGE NICKEL MINES LTD
PROPERTY. Maid of Erin
LOCATION: Rainy Hollow, B.C.
TYPE OF MAP: Surface Geology
BASED ON: G.N.
DATE OF WORK: Summer 1981
DATE: Jan. 1982
DRAWN BY: P.A.
FIGURE: 015-81-8

V.L.F.E.M. AND MAGNETOMETER RESULTS

WEST GRID AREA

MAID OF ERIN PROPERTY, B.C.

S. Presunka

NTS 114P/10E

PN 015

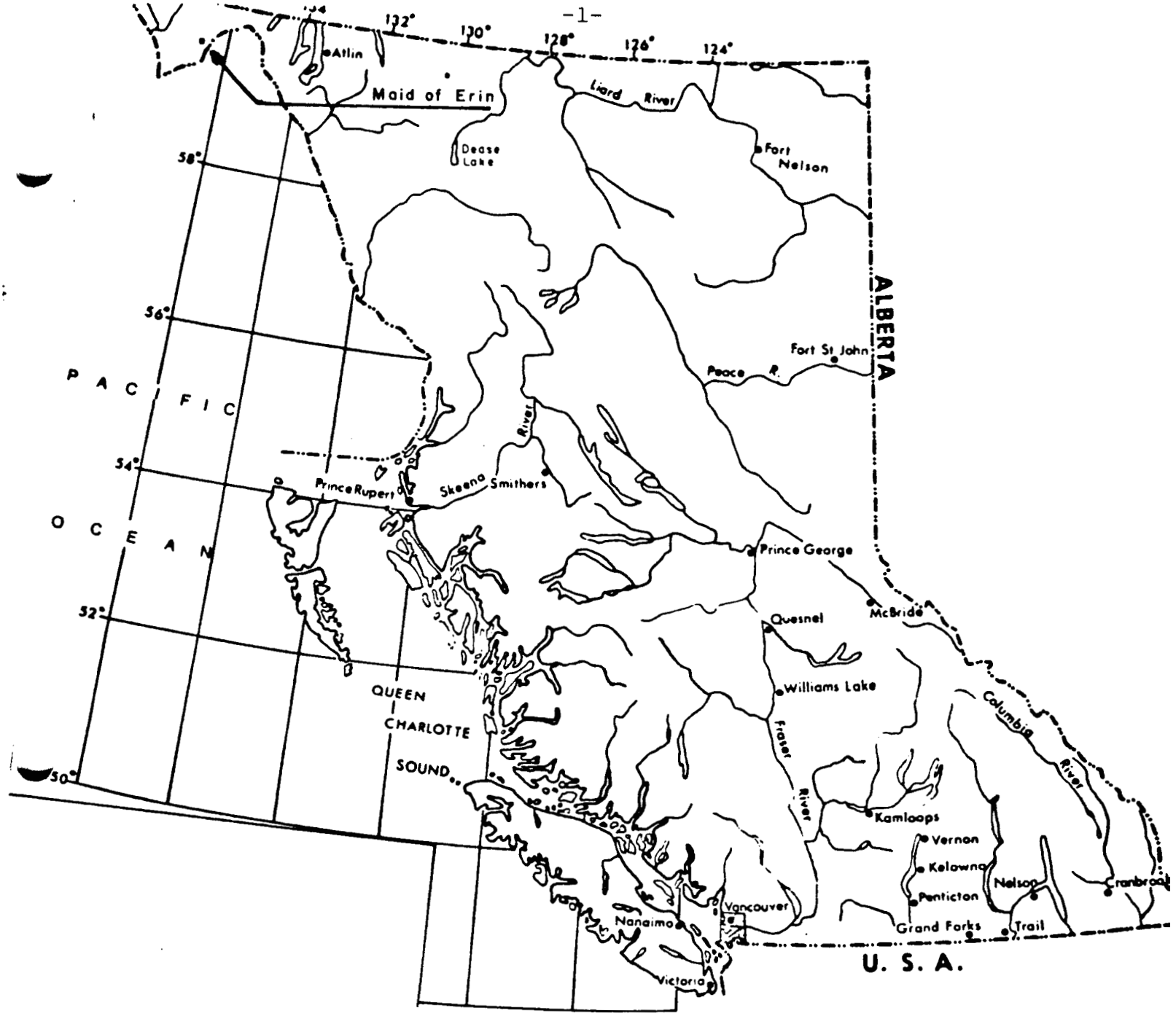
December 1981

Report # 16-015-81

SECTION B

TABLE OF CONTENTS

FIGURES

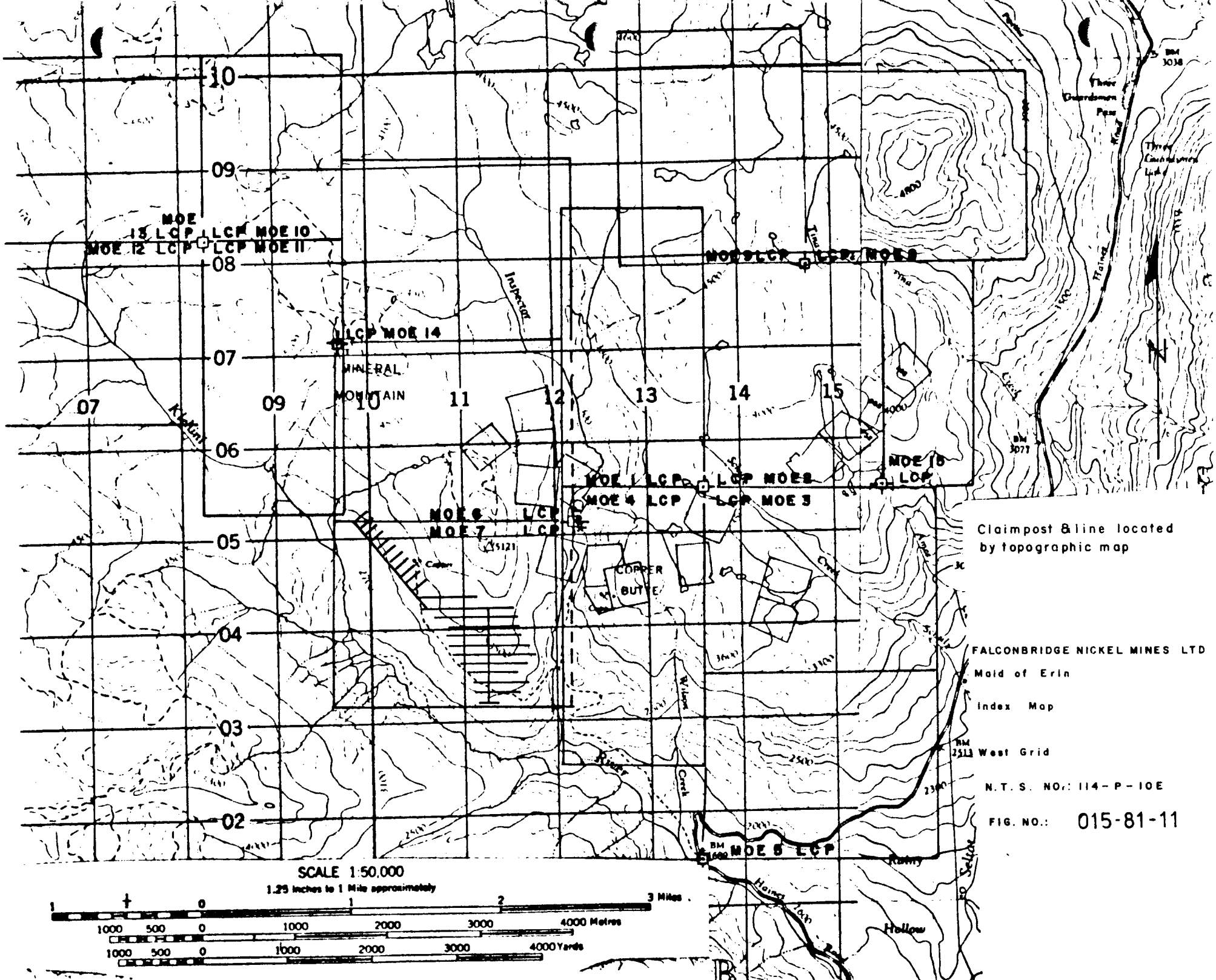


INDEX MAP

BRITISH COLUMBIA

150 0 150 300 450 Km.

SCALE 1: 7·500·000



Claimpost & line located by topographic map

FALCONBRIDGE NICKEL MINES LTD

Maid of Erin

Index Map

West Grid

N.T.S. NO.: 114-P-10E

FIG. NO.: 015-81-11

MAID OF ERIN

MAGNETOMETER SURVEY

Instrument: Barringer Proton Magnetometer Serial No. 6282 Model 1252

The magnetic base stations were established along the base line for diurnal control. Readings were taken every 25 metres along the lines. The corrected readings are plotted and contoured every 100 gammas.

The background magnetic field was established at 57000 gammas. All readings plotted are above 57000 gammas. Any reading below 57000 gammas is a negative reading.

The magnetic range varied from minus 318 on line 5N at 265W to a high of 2696 on line 750N at 462W, a range of 3013 gammas. The magnetic highs are spotty and cover a relatively small circular area. These magnetic highs do not have a definite pattern. There is a northeast magnetic trend east of the base line. This trend could be observed from line 0+50N, to line 6N. The magnetic anomally just west of the base line, from line 1+00S to 0+50N, covers a circular area of 150 metres in diameter. A vague northwest striking trend extends from the base line at 3N to line 8+50N, 425W and terminates about 75 metres southeast of the adit.

ELECTOMAGNETIC SURVEY

Instrument - Ronka EM 16 Serial No. 2 V.L.F. St. 23.4 TILT DIRECTION 120° (Profiled Plan)

The seven conductors selected are relatively weak. There is no E.M. response over the Maid of Erin mine area, apparently the ore zone is too small to respond to the E.M. 16 method.

No. 1 north east striking conductor east of the base line starts on line 250 north at 50 metres east then continues northeasterly to L 750N then swings to northwest direction crossing line 8N at 135 east and continues off the grid. The inphase - quadrature response suggests a possible sulphide anomally. Depth to conductor on line 650 north at 225 east is approximately 60 to 75 metres. The No. 6 north east striking conductor starts on line 650 north at 50 east and joins up with conductor No. 1 at 140 east.

The No. 2 north-south striking conductor extends off the grid to the north and south. This conductor crosses line 0+50N at 160 west, then swings in a westerly direction crossing line 450N at 260 west then strikes nearly north crossing line 950N at 120 west.The profile plan suggests this to be a flatly west dipping conductor. Depth to conductor on line 950 north at 120 west is approximately 60 to 70 metres. The No.3 conductor, some 110 metres west on line 750 north, is a fair one line response which extends weakly to lines 650 and to line 850 north to join the No.2 conductor. Depth to conductor on line 750 at 110 west is approximately 60 metres and it dips to the west. The No.4 conductor, west of the base line, crosses line 1+50N at 60 west and strikes southerly to line 0+50N at 40 west to continue off the grid. This is a very weak conductor. The No.5, a secondary conductor located some 450 metres east of the base line on line 250 north, is likely due to a weakly mineralized shear The very weak No.7 conductor, located 275 metres east of the base line on lines 150, 250 and 350N is likely due to a flat east dipping conductor.

Proposed D.D.H. #1 located 175 metres east on line 6+50N, and drilled -50° east to a depth of 100metres would intercept the conductor at 90 metres.

Proposed D.D.H. #2 on line 950N at 160 metres west and drilled -50° east to a depth of 80 metres would intercept the conductor at 72 metres. CONDUCTORS No.1 and No.2 may very well be the boundary of a broad flat lying conductor. The I.P. results could confirm this broad EM-16 conductor.

V.L.F. St. 17.8 Tilt Direction 360° (Contoured Plan)

This V.L.F. St. responds to E.W. conductors if any. There were no indicated cross-overs, only a secondary conductor as shown. This secondary conductor located towards the north end of the grid meanders easterly between lines 750 and 850N. This may represent an edge of a flat lying weak conductor.

These are seven plans submitted at a scale of 1:2500:

a) West Grid - contoured magnetics
b) West Grid - VLFEM station 23.4 profiled
c) West Grid - VLFEM station 23.4 contoured
d) West Grid - VLFEM station 17.8 contoured
e) West Grid - Composite VLFEM and magnetics
f) West Grid - Extension VLFEM station 23.4 contoured
g) West Grid - Extention VLFEM station 17.8 contoured

S. Presunka

September 12, 1981

STATEMENT OF QUALIFICATIONS

The V.L.F. EM16 and magnetometer surveys were supervised and partly done by S. Presunka of Presunka Exploration Limited of Vancouver, who has worked for numerous mining companies, including Falconbridge Nickel Mines Limited, over a period of more than 25 years. He is a specialist in the use of the EM 16.

SECTION C

PHOENIX GEOPHYSICS LIMITED

REPORT ON THE

INDUCED POLARIZATION AND RESISTIVITY SURVEY ON THE

MAID OF ERIN PROPERTY, WEST GRID
RAINY HOLLOW AREA
ATLIN MINING DIVISION, BRITISH COLUMBIA

FOR

FALCONBRIDGE NICKEL MINES LIMITED

NTS 114P/10E

Latitude: 59°34' Longitude: 136°35'

BY

FRANK DISPIRITO, B.A.Sc., P.Eng.

PAUL A. CARTWRIGHT, B.Sc.

NOVEMBER 12, 1981

TABLE OF CONTENTS

1. Introduction

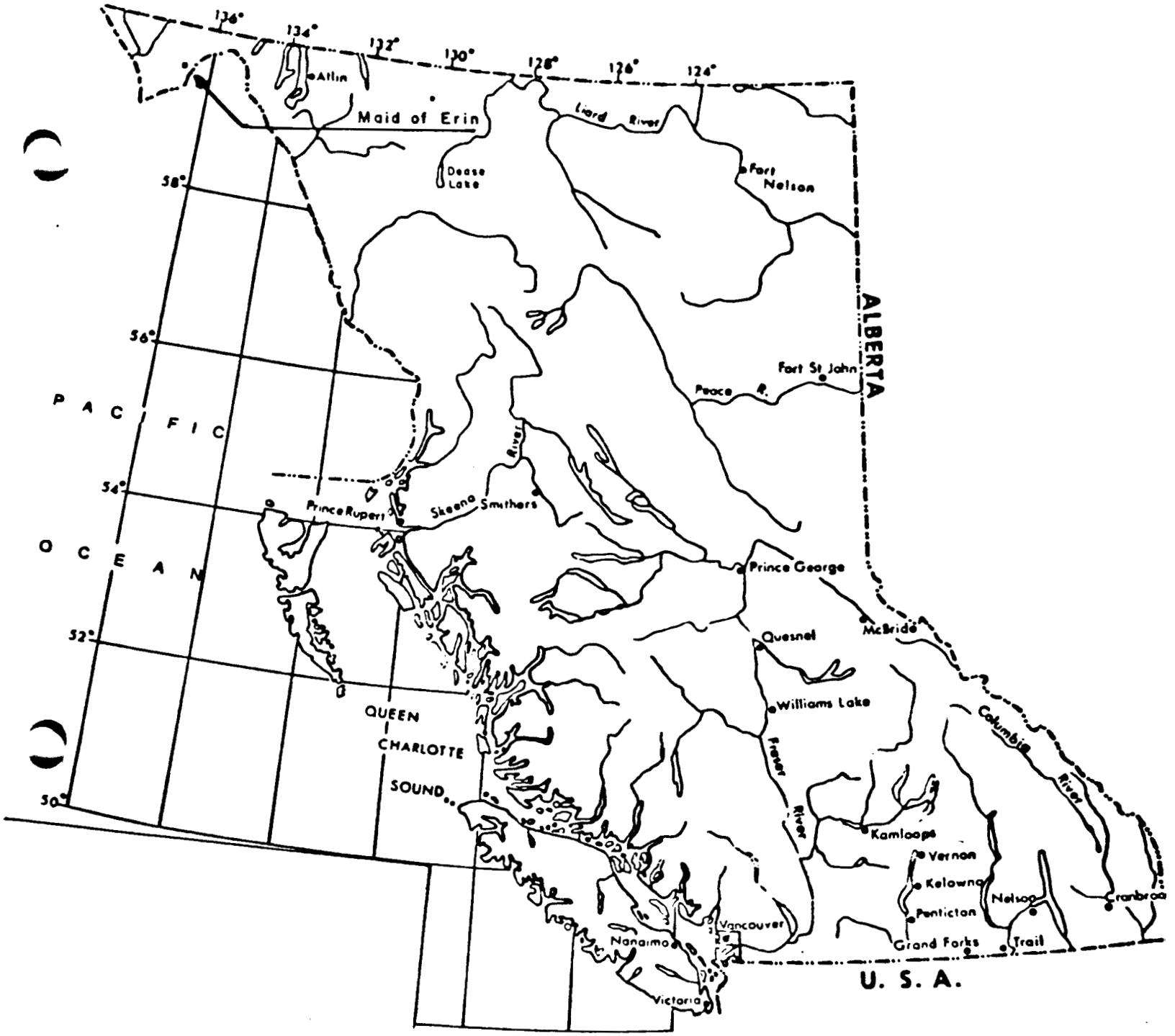
An Induced Polarization and Resistivity survey has been carried out for Falconbridge Nickel Mines Limited on the Maid of Erin property, West Grid (Figures 1 and 2), Rainy Hollow area, Atlin Mining Division, British Columbia. The property is located at about 59°34' north latitude and 136°35' west longitude, 90 kilometers to the northwest of Haines, Alaska.

Access to the Maid of Erin, West Grid property is via old mine exploration roads that leave the Haines Highway.

The area has been investigated to a limited extent since the 1890's. Small tonnages of Cu-Ag ore have been stripped from scattered showings. The present IP survey was conducted in order to test the response of known massive mineralization and to detect similar deposits.

Field work was carried out during August of 1981 using a Phoenix Model IPV-1 IP and Resistivity receiver unit in conjunction with a Phoenix Model IPT-1 IP and Resistivity transmitter unit recording the polarizability as percent frequency effect (P.F.E.) between frequencies of 4.0 hertz and 0.25 hertz. Apparent resistivity measurements are normalized in units of ohm-meters, while metal factor values are calculated according to the formula: MF=(PFE x 1000)/Apparent Resistivity. Dipole-dipole array was used exclusively, with a basic inter-electrode distance of 50 meters. Four dipole separations were recorded.

Field work was carried out under the supervision of Mr. Dave Daggett, geophysical crew leader, whose certificate is



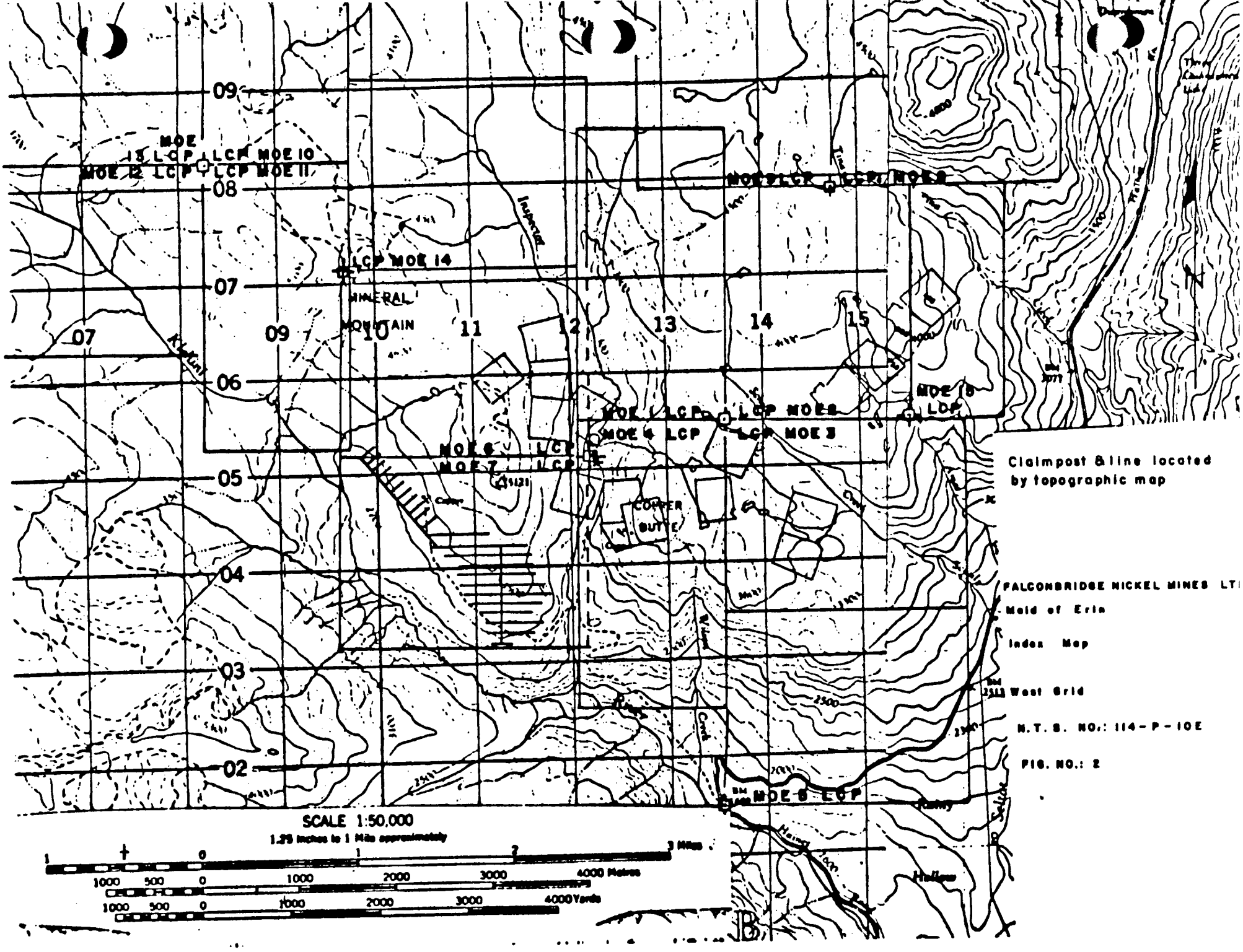
INDEX MAP

BRITISH COLUMBIA

150 0 150 300 450 Km.

SCALE 1: 7·500·000

FIG. NO.: 1


09
08
07
06
05
04
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02
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09
10
11
12
13
14
15
MOE 13 LCP
LCP MOE 10
MOE 12 LCP
LCP MOE 11
MOE 9 LCP
LCP MOE 14
MINERAL MOUNTAIN
MOE 16 LCP
LCP MOE 15
MOE 1 LCP
LCP MOE 2
MOE 4 LCP
LCP MOE 3
MOE 6 LCP
MOE 7 LCP
COPPER BUTTE
MOE 5 LCP
Claimpost & line located by topographic map
FALCONBRIDGE NICKEL MINES LTD
Mold of Erin
Index Map
West Grid
N.T.S. NO.: 114-P-10E
FIG. NO.: 2
SCALE 1:50,000
1.25 inches to 1 Mile approximately
1 Mile
1000 500 0 1000 2000 3000 4000 Metres
1000 500 0 1000 2000 3000 4000 Yards

attached to this report.

2. Description of Claims

The West Grid lies on the Moe 7 claim of the Maid of Erin property. The Moe 7 claim consists of 20 units and the date recorded is December 9, 1981. The property is owned and operated by Falconbridge Nickel Mines Limited.

3. Presentation of Results

The Induced Polarization and Resistivity results are shown on the following data plots.

LINE	ELECTRODE INTERVAL	DWG. NO.
950N	50 meters	I.P.-5816-13
850N	50 meters	I.P.-5816-14
750N	50 meters	I.P.-5816-15
650N	50 meters	I.P.-5816-16
550N	50 meters	I.P.-5816-17
450N	50 meters	I.P.-5816-18
350N	50 meters	I.P.-5816-19
250N	50 meters	I.P.-5816-20
150N	50 meters	I.P.-5816-21
50N	50 meters	I.P.-5816-22
00	50 meters	I.P.-5816-23
Base Line		
800W	50 meters	I.P.-5816-24
A	50 meters	I.P.-5816-25

Also enclosed with this report are Dwgs. I.P.P.-B-4016A and -B-4016B, plan maps of the West Grid at a scale of 1:2,500. The definite, probable and possible Induced Polarization anomalies are indicated by bars, in the manner shown on the legend, on this plan map as well as on the data plots. These bars represent the surface projection of the anomalous zones as interpreted

from the location of the transmitter and receiver electrodes when the anomalous values were measured.

Since the Induced Polarization measurement is essentially an averaging process, as are all potential methods, it is frequently difficult to exactly pinpoint the source of an anomaly. Certainly, no anomaly can be located with more accuracy than the electrode interval length; i.e., when using 50 m. electrode intervals the position of a narrow sulphide body can only be determined to lie between two stations 50 m. apart. In order to definitely locate, and fully evaluate, a narrow, shallow source it is necessary to use shorter electrode intervals. In order to locate sources at some depth, larger electrode intervals must be used, with a corresponding increase in the uncertainties of location. Therefore, while the centre of the indicated anomaly probably corresponds fairly well with source, the length of the indicated anomaly along the line should not be taken to represent the exact edges of the anomalous material.

The grid and geological information shown on Dwgs. I.P.P.-B-4016A and -B-4016B has been taken from maps made available by the staff of Falconbridge Nickel Mines Limited.

4. Description of Geology

The area is characterized by Jurassic granodiorite and quartz-diorite components of the Coast Crystalline Complex in contact with Permo-Carboniferous sedimentary rocks. Within the sedimentary rocks are occasional skarns bearing disseminated to massive sulphides. Argillite in the area is very fine-grained and shows variable pyrite and pyrrhotite both disseminated and

along fractures. Quartzite also carries occasional disseminated pyrite and pyrrhotite.

5. Discussion of Results

The resistivity levels under the Maid of Erin, West Grid are variable. Resistivities range from moderately low to moderately high in magnitude.

The depth to the top of the source of all the anomalies detected on the West Grid has been determined to be less than one dipole spacing, that is less than 50 meters.

A large, irregularly shaped main IP zone has been outlined by the data. In addition, parts of two more zones are present on the east end of Line 2 + 50N and on the north end of baseline 8 + 00W.

The anomaly on Line 2 + 50N, east of Station 4 + 00E, is of moderate magnitude. This anomaly lies in an area where little or no bedrock is exposed at surface.

The anomaly detected on baseline 8 + 00W extends from Station 18 + 00N to at least Station 22 + 50N, but is open towards the north end. This anomaly grades from moderate to strong in magnitude. Again, little or no surface geology is mapped in this region.

The main anomalous IP zone is discussed separately below.

Main Zone - The main IP zone extends at least as far north as Station 6 + 00N on Line A, but is open on all sides of the West grid except to the south where a limit of polarizable material is defined.

It is evident from the surface geology map of the area that the anomalies marked as definite on Line 9 + 50N, Line 8 + 50N and Line 7 + 50N are mainly, if not entirely, due to argillite containing pyrite and pyrrhotite. Limestone, diorite and quartzite are the major rock types mapped east of baseline -00 on Line 7 + 50N. However, pyritiferous argillite at a depth of up to 50 meters subsurface could still be part of the cause for the strong anomaly indicated on the eastern portion of Line 7 + 50N.

Also, on the West grid the skarns, which contain a suite of metallic minerals, give rise to moderate to strong IP responses. Quartzite, diorite and limestone units correlate to the remainder of the IP anomalies, which vary from weak to strong, depending on the concentration and texture of associated metallic mineralization.

The surface geology also reveals that the source of some of the IP anomalies is controlled by faulting. This is especially evident on the portion of the West gird west of baseline -00 where faults separate strong anomalies from moderate anomalies.

6. Summary and Conclusions

An Induced Polarization and Resistivity survey has been completed on the Maid of Erin property, West grid. Several IP anomalies have been detected by the survey, most of which have been grouped into one main zone. Possibly detached from this main zone is a probable anomaly on Line 2 + 50N, east of Station 4 + 00E and a probable, grading into definite, anomaly on baseline

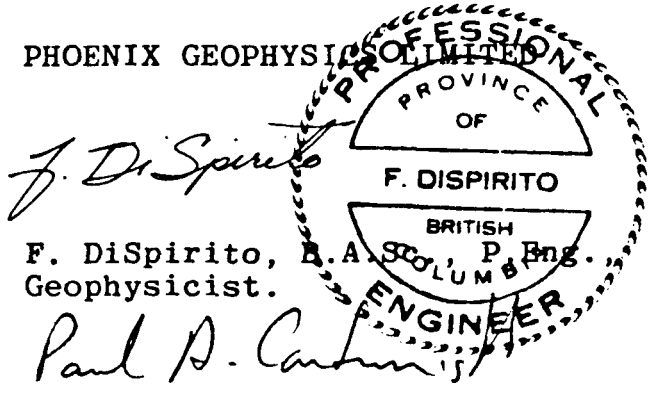
8 + 00W, north of Station 18 + 00N.

Part of the main zone is formed by anomalies classified as definite which correspond to pyritiferous argillite. Mineralized skarns in the area give rise to anomalies marked as either probable or definite. The remainder of the main zone of anomalous IP effects has been mapped as quartzite, diorite and limestone. Only the southern extent of this main zone is defined.

The depth to the top of the source of all anomalies encountered on the West grid is less than 50 meters.

In order to fully delineate the extent and significance of the IP anomalies on the West grid, additional IP surveying is needed. Also, to better estimate the depth and width of the source of the anomalies within favorable geologic units, detailed IP surveying using shorter (i.e., less than 50 meters) dipole spacings is required.

PHOENIX GEOPHYSICS LIMITED



F. DiSpirito, B.A.Sc., P.Eng.
Geophysicist.

Paul A.Cartwright, B.Sc.,
Geophysicist.

DATED: 12 November 1981

ASSESSMENT DETAILS

PROPERTY: Maid of Erin, West Grid MINING DIVISION: Atlin

SPONSOR: Falconbridge Nickel Mines Limited

LOCATION: Rainy Hollow Area PROVINCE: British Columbia

TYPE OF SURVEY: Induced Polarization and Resistivity Survey

OPERATING MAN DAYS: 21 DATE STARTED: 7 August 1981

EQUIVALENT 8 HR. MAN DAYS: 31.5 DATE FINISHED: 21 August 1981

CONSULTING MAN DAYS: 5 NUMBER OF STATIONS: 217

DRAFTING MAN DAYS: 5 NUMBER OF READINGS: 1833

TOTAL MAN DAYS: 41.5 KM. OF LINE SURVEYED: 10.2

CONSULTANTS:

P.A. Cartwright, 4238 W. 11th Avenue, Vancouver, B.C.
F. DiSpirito, 2748 Oxford Street, Vancouver, B.C.

FIELD TECHNICIANS:

D. Daggett, 35 Falcon Crescent, Chelmsford, Ontario
B. Polzer, 200 Yorkland Blvd., Willowdale, Ontario
G. Montpetit, 4658 Gothard, Vancouver, B.C.

DRAUGHTSMEN:

Ron Wakaluk, 7886 Vivian Drive, Vancouver, B.C.

PHOENIX GEOPHYSICS LIMITED

F. DiSpirito, B.A.Sc., P.Eng.
Geophysicist.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
F. DISPIRITO

DATED: 12 November 1981

STATEMENT OF COSTS

FALCONBRIDGE NICKEL MINES LIMITED
Induced Polarization and Resistivity Survey
Maid of Erin Property, West Grid, Atlin M.D.
British Columbia

PERIOD: 7 August 1981 - 21 August 1981

CREW: D. Daggett - B. Polzer - G. Montpetit

7 Operating Days @ $675.00/day	$ 4,725.00
2 Travel Days @ $335.00/day	670.00
2 Bad Weather Days @ $ 335.00/day	670.00
Extra labour - 12.75 days	918.00
Mobilization - Demobilization	1,209.64
	$ 8,192.64

PHOENIX GEOPHYSICS LIMITED

F. DiSpirito, B.A.Sc., P.Eng.
Geophysicist.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
F. DISPIRITO

DATED: 12 November 1981

CERTIFICATE

I, Frank DiSpirito, of the City of Vancouver, Province of British Columbia, do hereby certify that:

1. I am a geophysicist residing at 2748 Oxford Street, Vancouver, B.C.

2. I am a graduate of the Univeristy of British Columbia, Vancouver, B.C., with a B.A.Sc. Degree in Geological Engineering.

3. I am a Professional Engineer registered in the Province of British Columbia.

4. I have been practising my profession for 7 years.

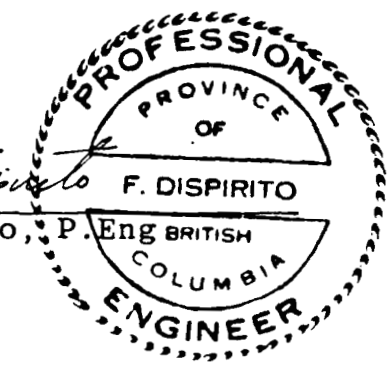
5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of Falconbridge Nickel Mines Limited or any affiliate.

6. The statements made in this report are based on a study of published geological literature and unpublished private reports.

7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED AT VANCOUVER, B.C.
this 12th day of November 1981.

Frank DiSpirito, P.Eng



CERTIFICATE

I, Paul A. Cartwright, of the City of Vancouver, Province of British Columbia, do hereby certify that:

1. I am a geophysicist residing at 4238 West 11th Avenue, Vancouver, B.C.

2. I am a graduate of the University of British Columbia, Vancouver, B.C., with a B.Sc. Degree.

3. I am a member of the Society of Exploration Geophysicists and the European Association of Exploration Geophysicists.

4. I have been practising my profession for 11 years.

5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of Falconbridge Nickel Mines Limited or any affiliate.

6. The statements made in this report are based on a study of published geological literature and unpublished private reports.

7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED AT VANCOUVER, B.C.
THIS 12th day of November 1981.

Paul A. Cartwright

Paul A. Cartwright, B.Sc.

CERTIFICATE

I, David Daggett, of the City of Chelmsford, Province of Ontario, do hereby certify that:

1. I am a geophysical crew leader residing at 35 Falcon Crescent, Chelmsford, Ontario.

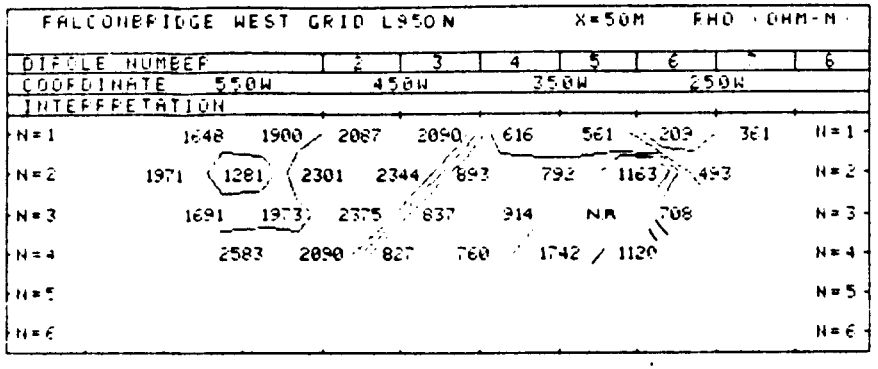
2. I am a graduate of Cambrian College in Geological Technology.

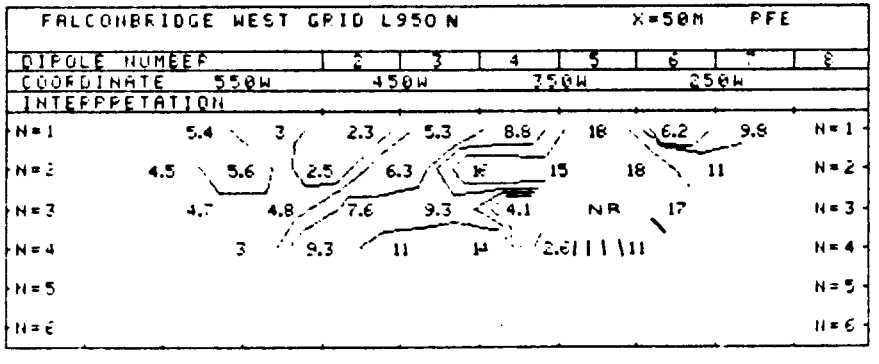
3. I have been practising my vocation about three years.

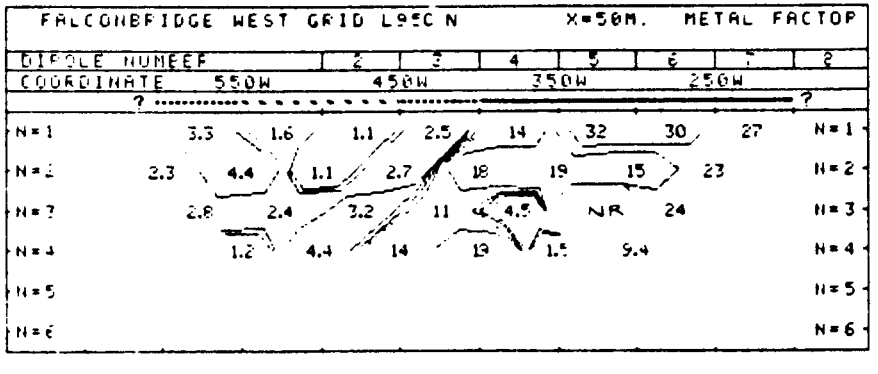
4. I am presently employed as a geophysical crew leader by Phoenix Geophysics Limited of 200 Yorkland Blvd., Willowdale, Ontario.

DATED AT VANCOUVER, B.C.
this 12th day of November 1981.

David Daggett







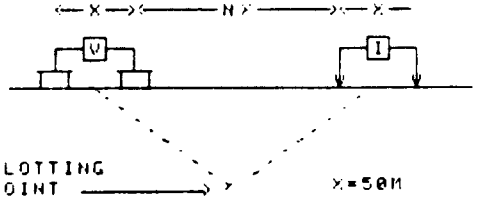
DWG NO -I P-5816-

FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ WEST GRID

ATLIN M D (RAINY HOLLOW B C

LINE NO -950N



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ....
POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0.0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1,-1.5 -2,-3,-5,-7.5,-10

DATE SURVEYED AUGUST 198

APPROVED

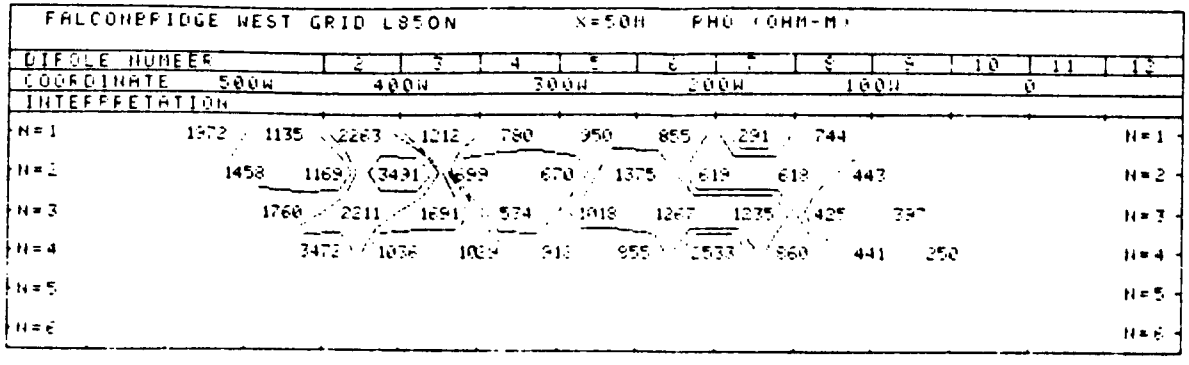
JD

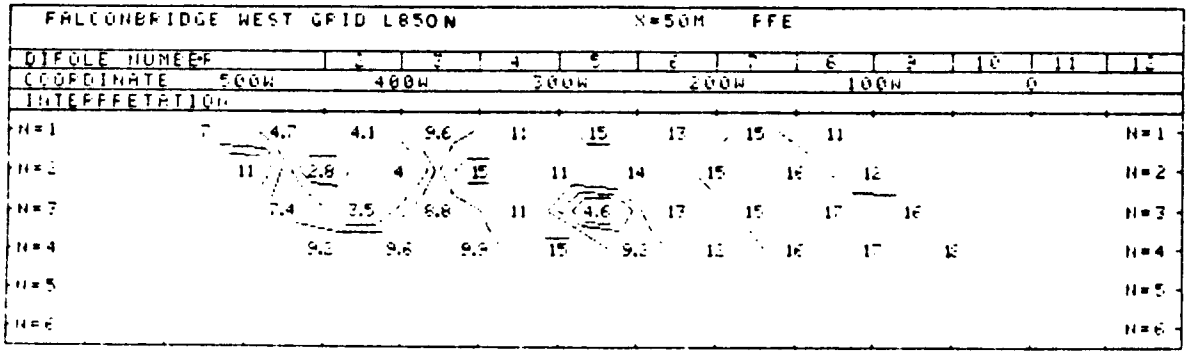
DATE Nov 10/81

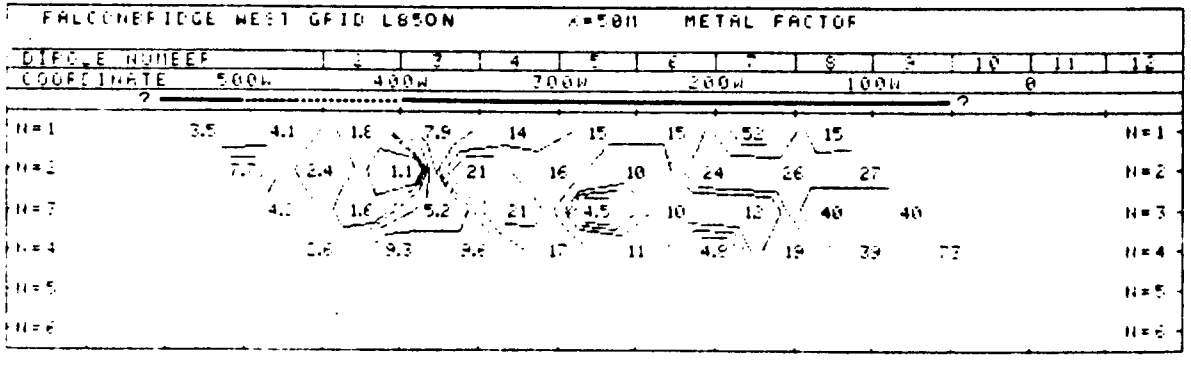
PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION

AND RESISTIVITY SURVEY







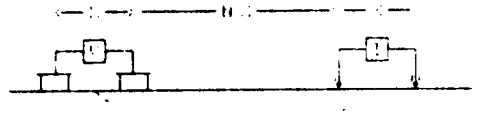
DWG NO -1 F - 5816-14

FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ WEST GRID

ATLIN M D (PRINCE ROUPERT P)

LINE NO - 850N



FLOTTING POINT

X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
4 0 0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1 -1 5 -2 -3 -5 -7 5 -10

DATE SURVEYED AUGUST 19

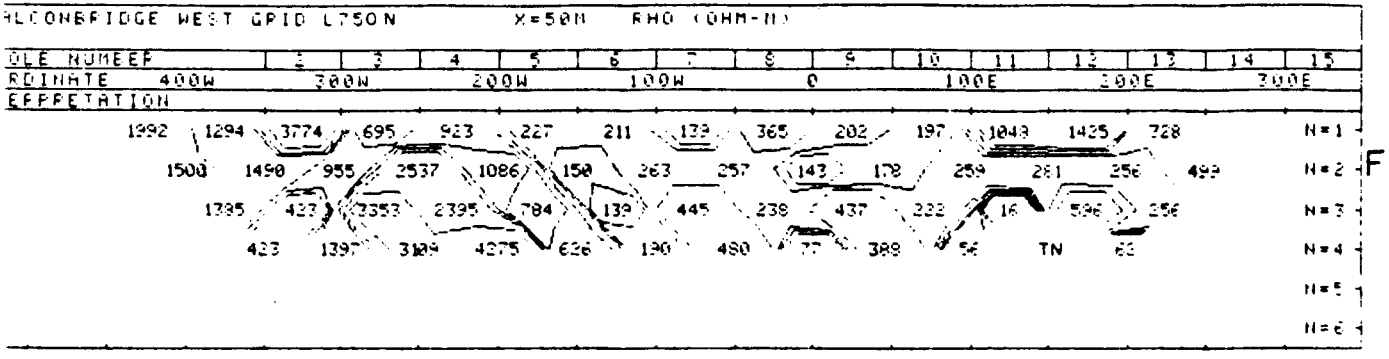
APPROVED

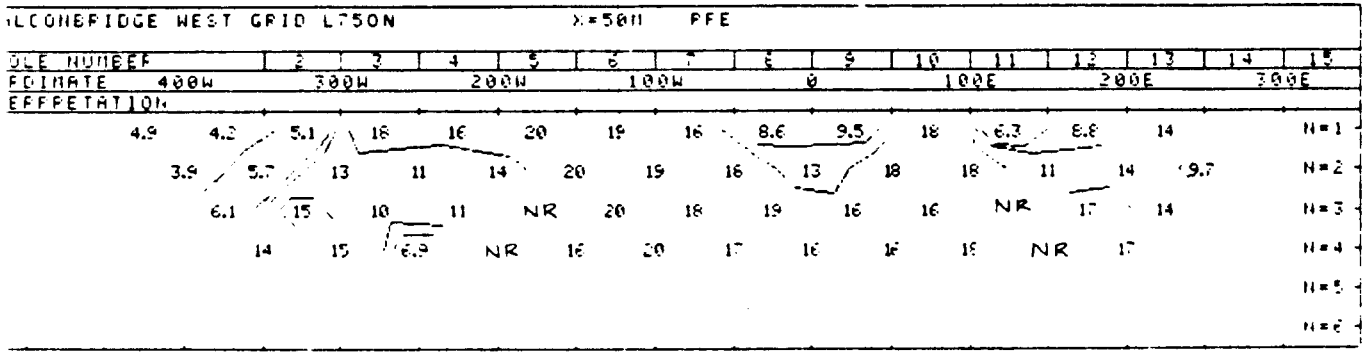
DATE Nov 10/81

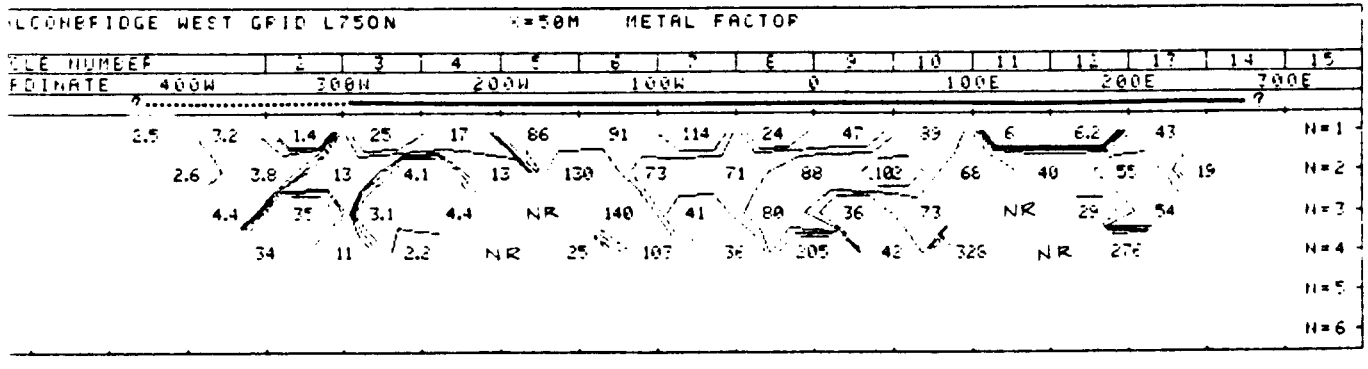
PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY

DWG NO -1 P-591





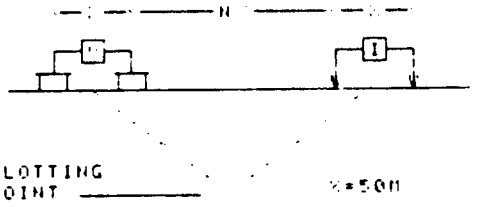


FALCONBRIDGE NICKEL MINI

MAID OF ERIN PROJ WEST GRID

ATLIN M D PAINT HOLLOW B C

LINE NO -75ON



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ....
POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0.0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1 -1 5 -2 -3 -5 -7 5 -10

DATE SURVEYED AUGUST

APPROVED

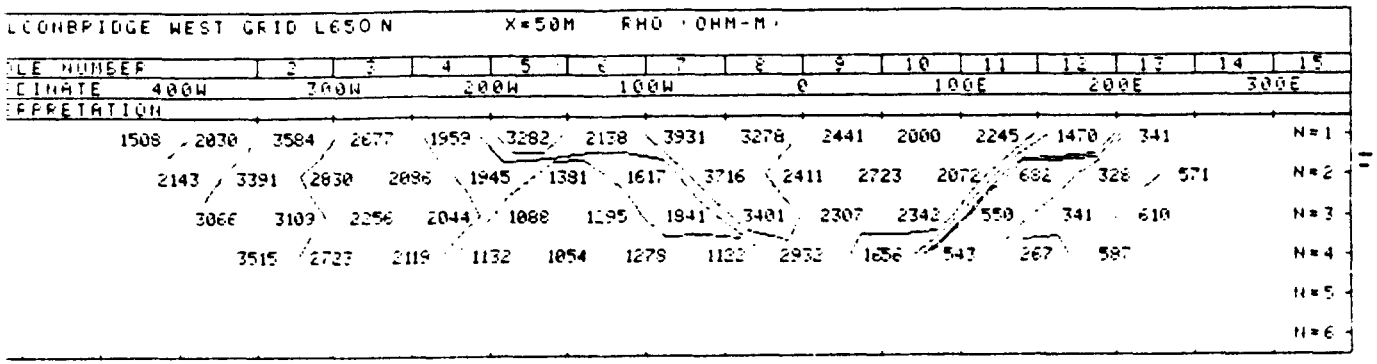
DATE NOV 10/81

PHOENIX GEOPHYSICS LTD

INDUCED POLARIZATION

AND RESISTIVITY SURVEY

DWG NO -1 P-5816

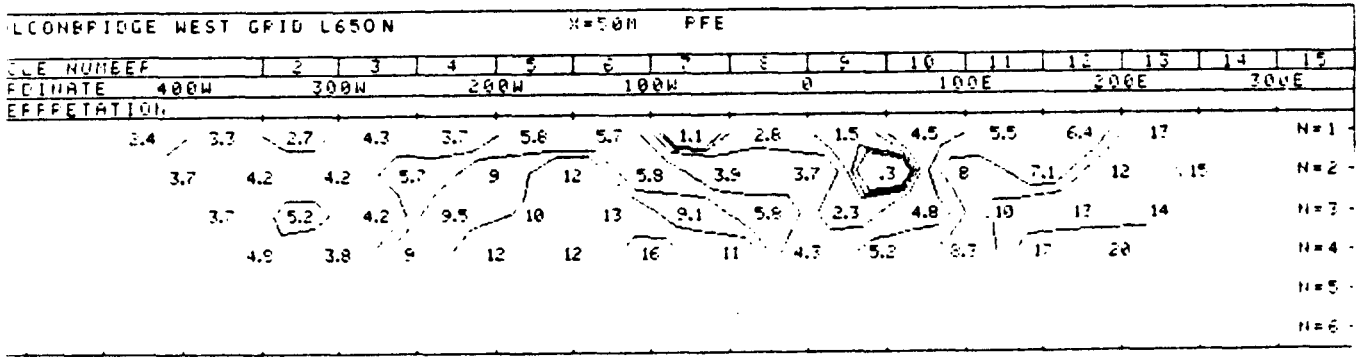


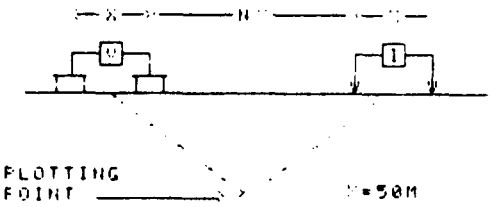
FALCONBRIDGE NICKEL MINE

MAID OF ERIN PROJ. WEST GRID

ATLIN M.D. PAINT HOLLOW B.C.

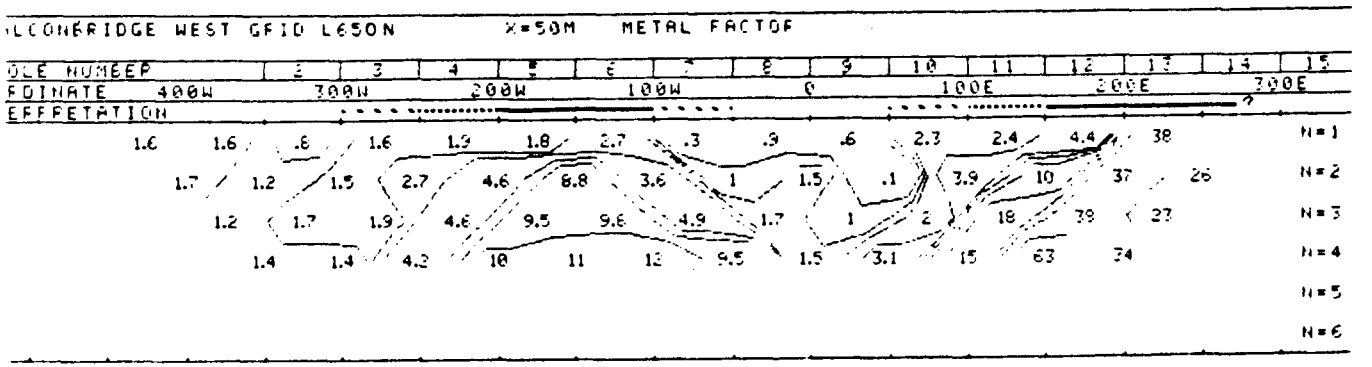
LINE NO -65ON





SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ....
POSSIBLE - - - - - -



FREQUENCY (HERTZ)
4 8.0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5 -2.-3.-5 -7 5.-10

DATE SURVEYED AUGUST 1[illegible]

APPROVED

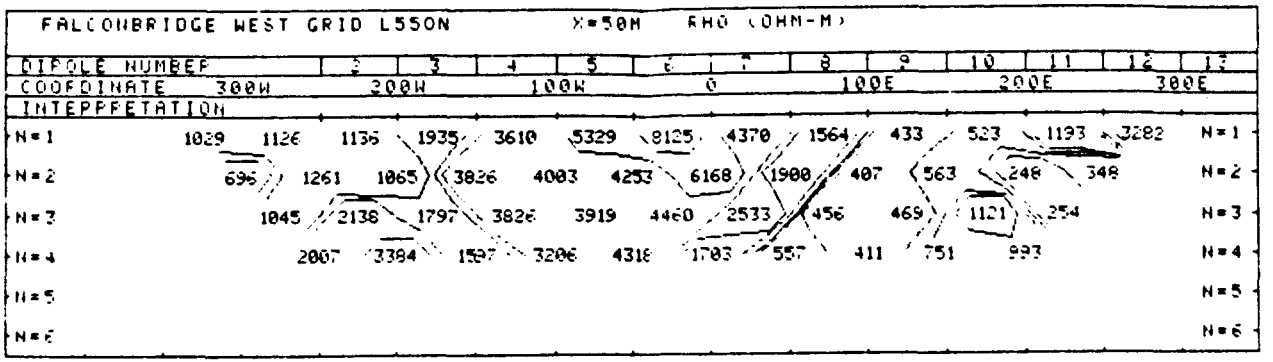
JD

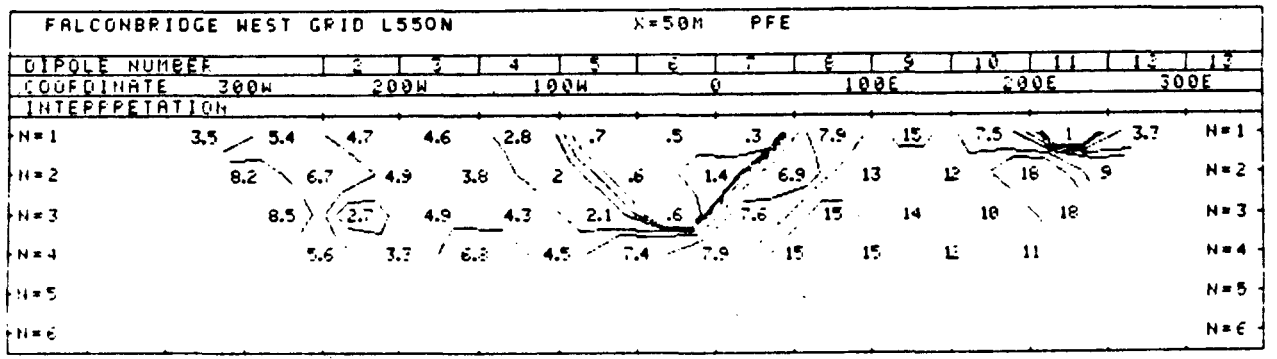
DATE NOV 10/81

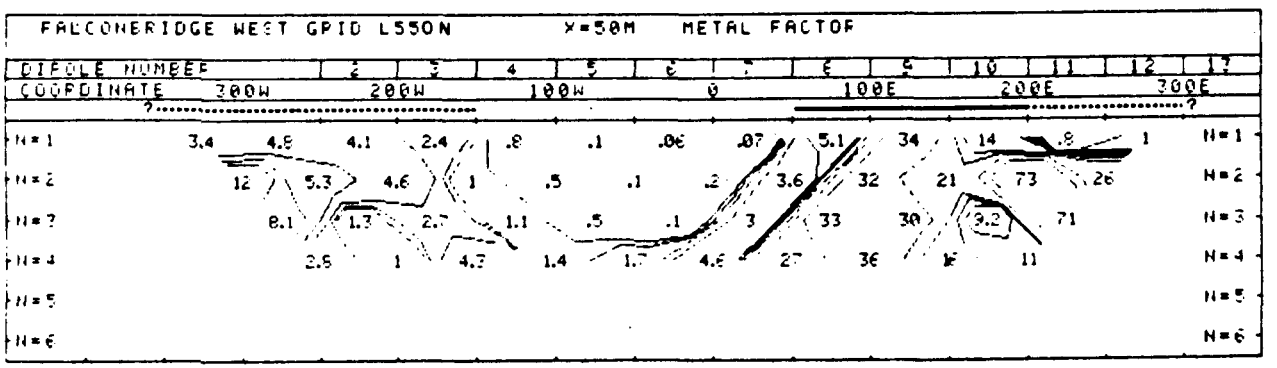
PHOENIX GEOPHYSICS LTD

INDUCED POLARIZATION

AND RESISTIVITY SURVEY







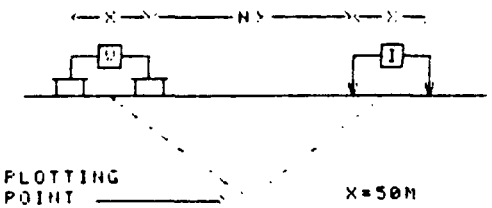
DWG NO -1 P-5816-

FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ.WEST GRID

ATLIN M D .PAINY HOLLOW B C

LINE NO -55ON



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ----------
POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0.0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1.-1 5 -2.-3.-5.-7 5.-10

DATE SURVEYED AUGUST 198

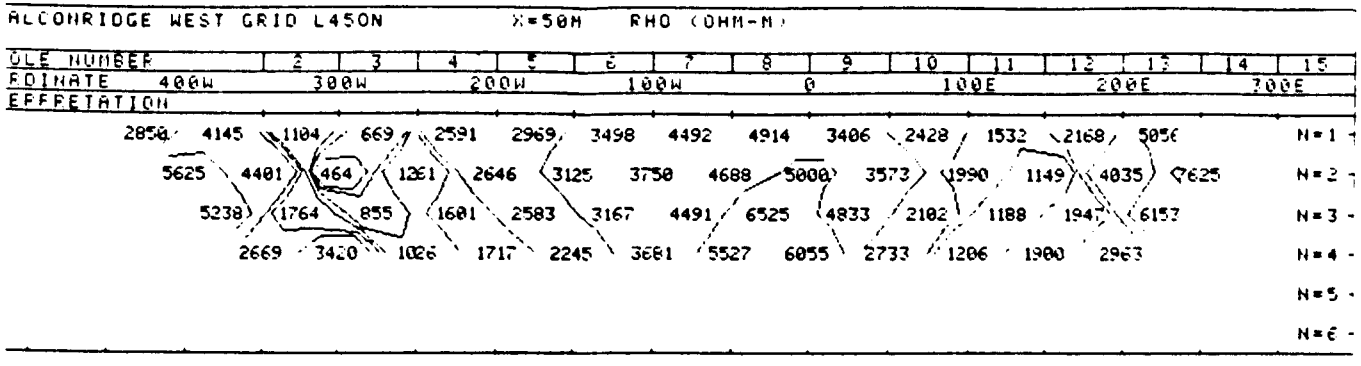
APPROVED

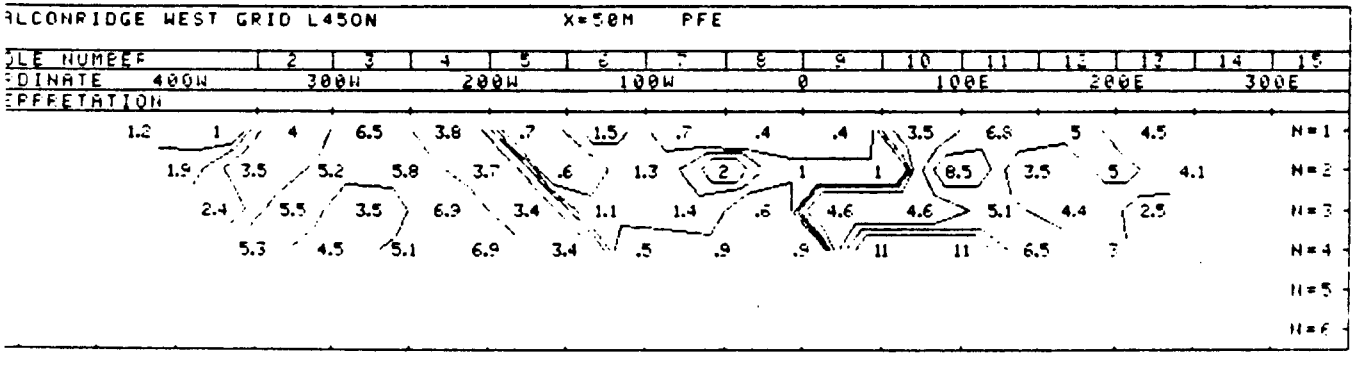
DATE

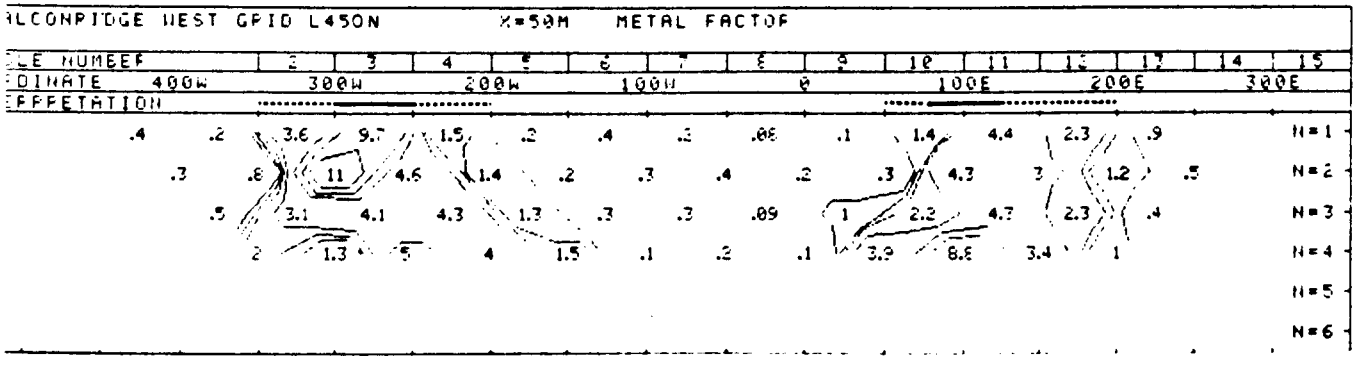
PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION

AND RESISTIVITY SURVEY







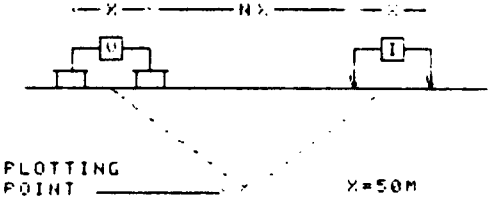
DWG NO -1 - -581

FALCONBRIDGE NICKEL MINI

MAID OF ERIN PROJ WEST SIDE

ATLIN M D PAINT HOLL W P

LINE NO -45ON



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ....
POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0 0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1 -1 5 -2 -3 -5 -7 5 -10

DATE SURVEYED AUGUST 1

APPROVED

DATE NOVEMBER

PHOENIX GEOPHYSICS LTD

INDUCED POLARIZATION

AND RESISTIVITY SURVEY

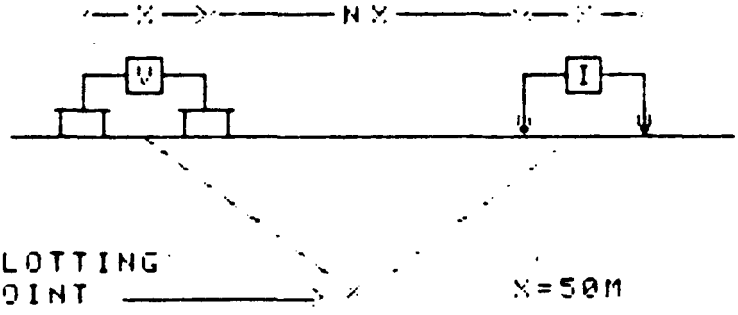
DWG NO. -I P-5816-1?

FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ.WEST GRID

ATLIN M D :PAINY HOLLOW B C

LINE NO -350N



PLOTTING POINT ——————> X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ....
POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0 0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5 -2.-3.-5.-7 5.-10

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DATE NOV. 10/81

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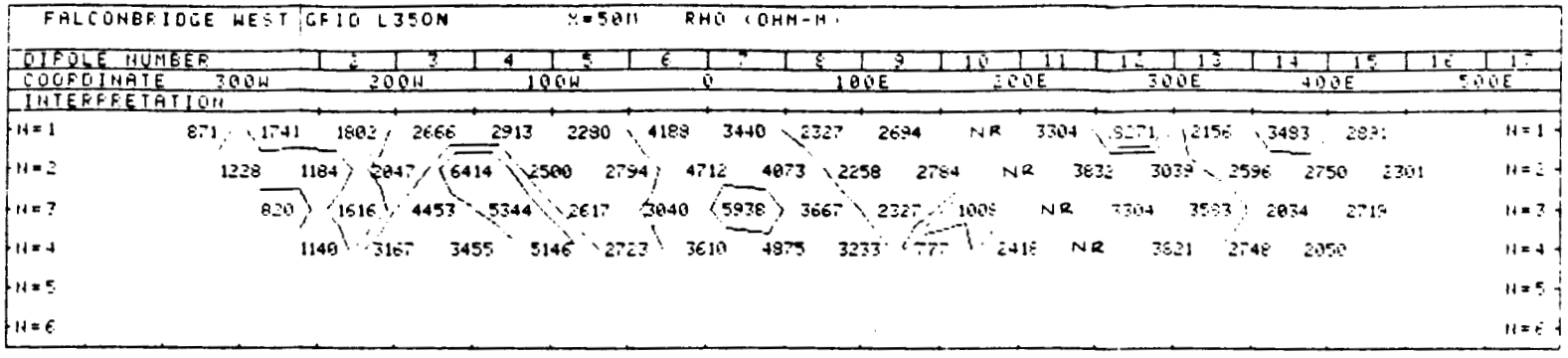
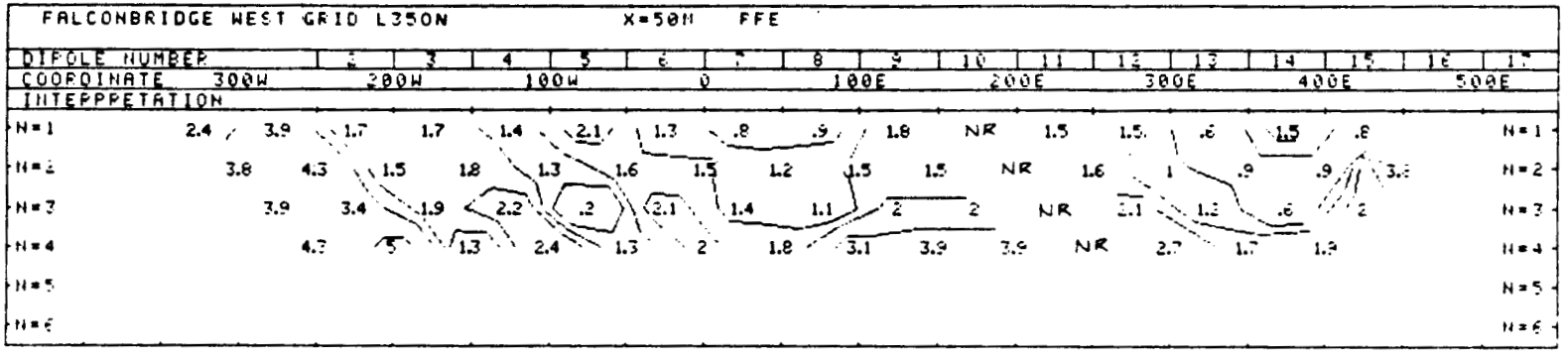
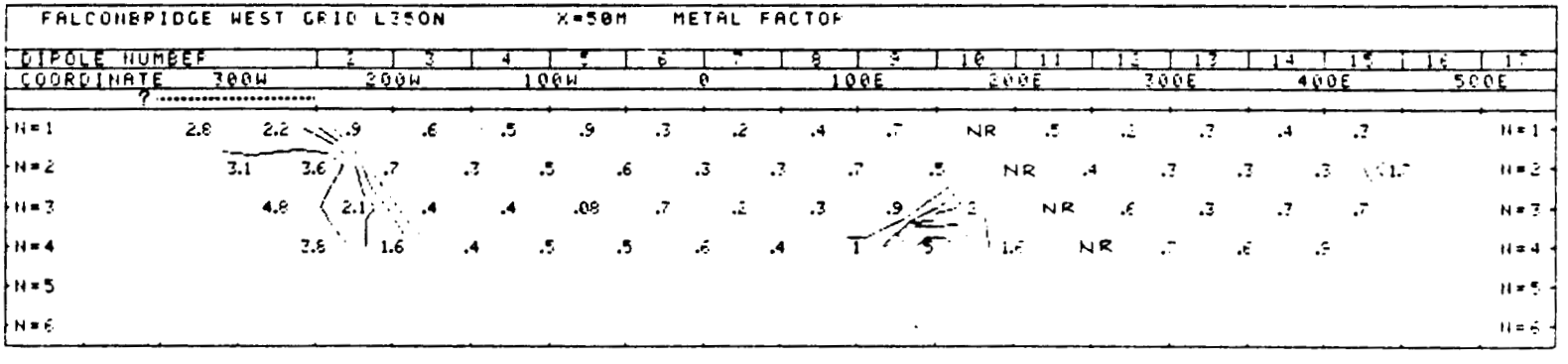
AND RESISTIVITY SURVEY


FALCONBRIDGE WEST GRID L35ON X=50N RHO (OHM-M)
DIPOLE NUMBER 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
COORDINATE 300W 200W 100W 0 100E 200E 300E 400E 500E
INTERPRETATION
N=1 871 1741 1802 2666 2913 2280 4188 3440 2327 2694 NR 3304 3271 2156 3483 2831 N=1
N=2 1228 1184 2047 6414 2500 2794 4712 4073 2258 2784 NR 3832 3039 2596 2750 2301 N=2
N=3 820 1616 4453 5344 2617 3040 5938 3667 2327 1009 NR 3304 3583 2034 2719 N=3
N=4 1140 3167 3455 5146 2723 3610 4875 3233 777 2418 NR 3621 2748 2050 N=4
N=5 N=5
N=6 N=6


FALCONBRIDGE WEST GRID L35ON X=50N FFE
DIPOLE NUMBER 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
COORDINATE 300W 200W 100W 0 100E 200E 300E 400E 500E
INTERPRETATION
N=1 2.4 3.9 1.7 1.7 1.4 2.1 1.3 .8 .9 1.8 NR 1.5 1.5 .6 1.5 .8 N=1
N=2 3.8 4.3 1.5 1.8 1.3 1.6 1.5 1.2 1.5 1.5 NR 1.6 1 .9 .9 N=2
N=3 3.9 3.4 1.9 2.2 .2 2.1 1.4 1.1 2 2 NR 1.2 .6 N=3
N=4 4.7 1.3 2.4 1.3 2 1.8 3.1 3.9 3.9 NR 2.7 1.7 1.9 N=4
N=5 N=5
N=6 N=6


FALCONBRIDGE WEST GRID L35ON X=50N METAL FACTOR
DIPOLE NUMBER 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
COORDINATE 300W 200W 100W 0 100E 200E 300E 400E 500E
N=1 2.8 2.2 .9 .6 .5 .9 .3 .2 .4 .7 NR .5 .2 .7 .4 .7 N=1
N=2 3.1 3.6 .7 .3 .5 .6 .3 .3 .7 .5 NR .4 .7 .3 .3 N=2
N=3 4.8 2.1 .4 .4 .08 .7 .2 .3 .9 NR .6 .3 .7 .7 N=3
N=4 3.8 1.6 .4 .5 .5 .6 .4 1.6 NR .7 .6 .6 N=4
N=5 N=5
N=6 N=6

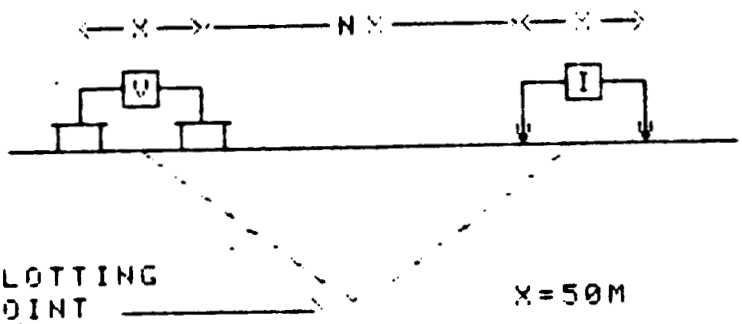
DWG NO -I P-5816-2

FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ, WEST GRID

ATLIN M D , RAINY HOLLOW B C

LINE NO -250N



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ....
POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0.0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1 -1 5 -2,-3,-5,-7 5,-10

DATE SURVEYED AUGUST 1981

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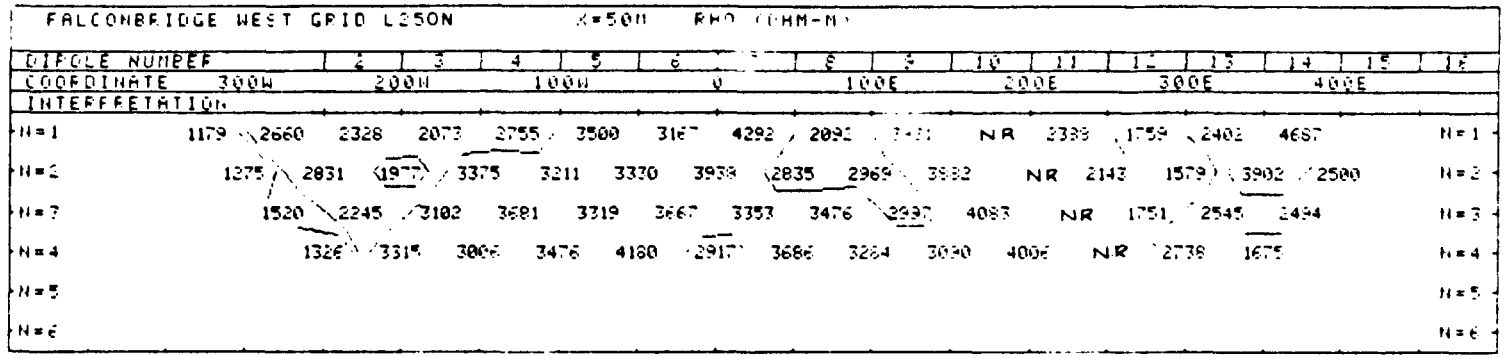
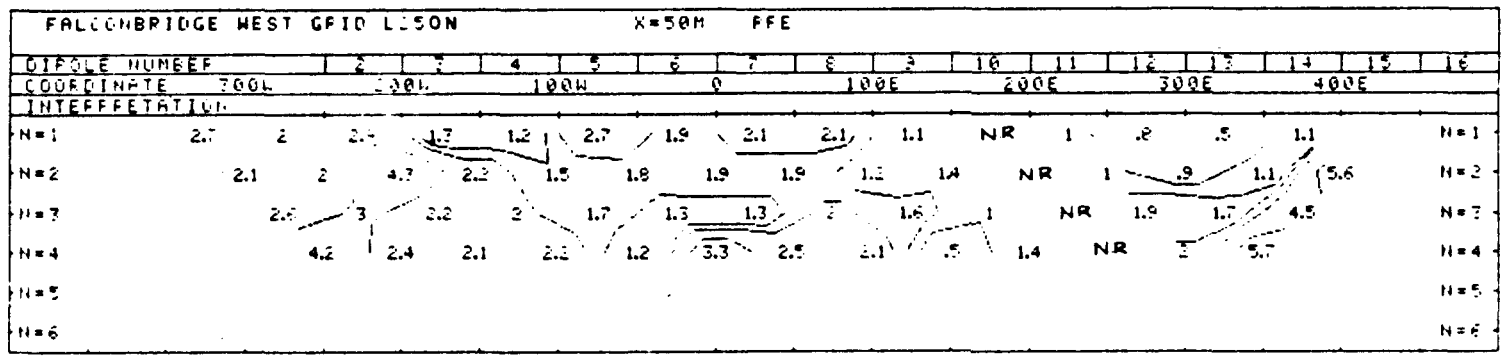
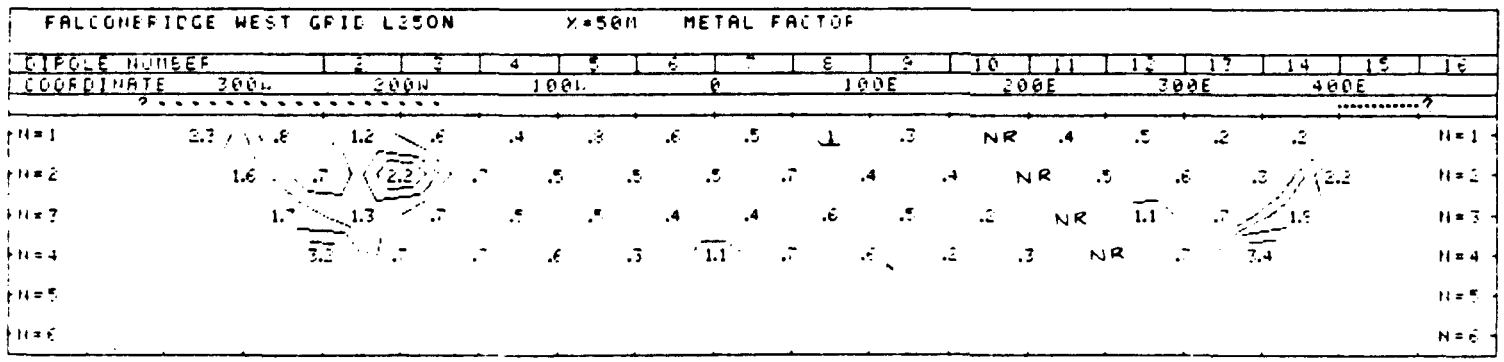
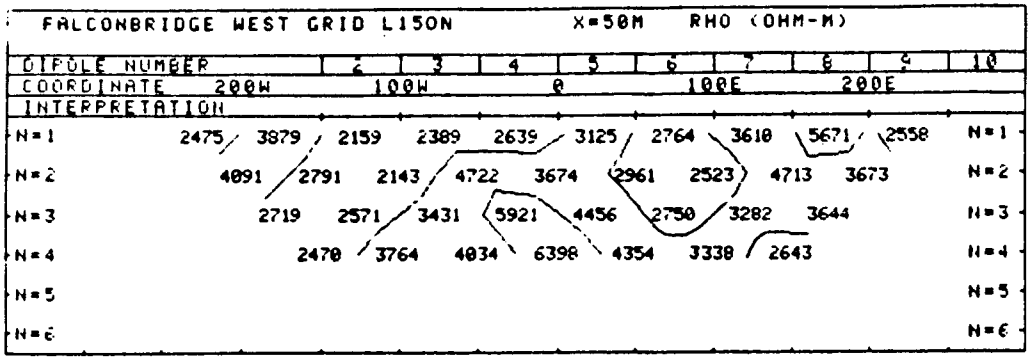
AND RESISTIVITY SURVEY

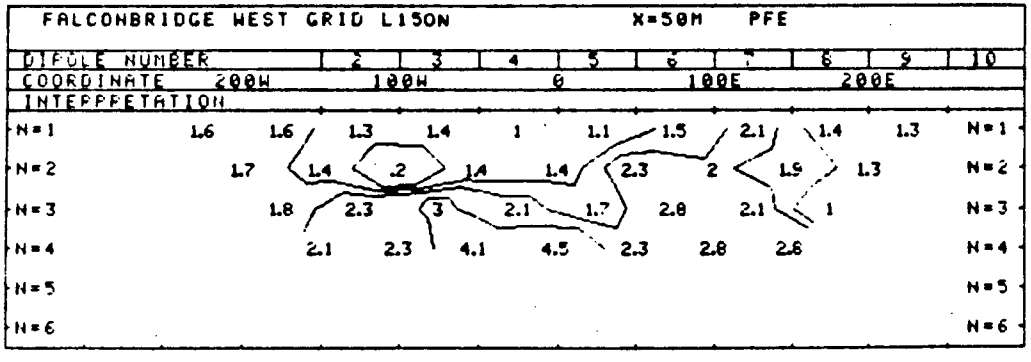

FALCONBRIDGE WEST GRID LOSON X=50M RHO (OHM-M)
DIPOLE NUMBER 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
COORDINATE 300W 200W 100W 0 100E 200E 300E 400E
INTERPRETATION
N=1 1179 2660 2328 2073 2755 3500 3167 4292 2092 NR 2338 1759 2402 4687
N=2 1275 2831 1977 3375 3211 3330 3938 2835 2969 3932 NR 2143 1579 3902 2500
N=3 1520 2245 3102 3681 3319 3667 3353 3476 3930 4083 NR 1751 2545 2494
N=4 1326 3315 3006 3476 4180 2917 3686 3264 3030 4006 NR 2738 1675
N=5
N=6

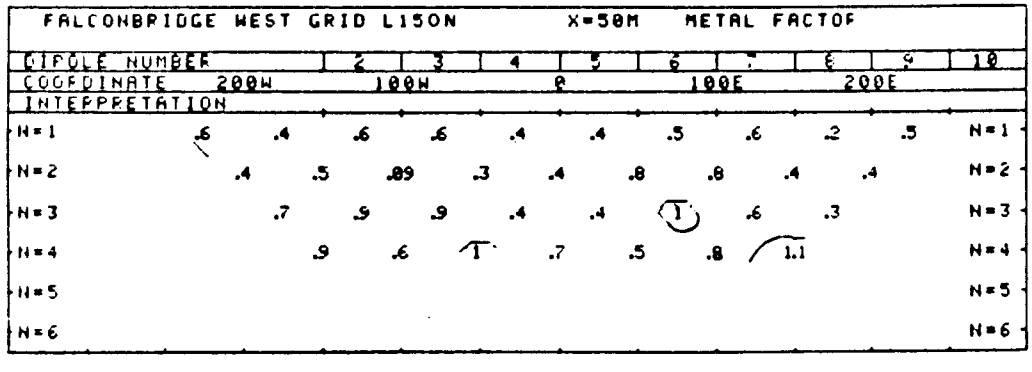

FALCONBRIDGE WEST GRID LOSON X=50M PFE
DIPOLE NUMBER 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
COORDINATE 300W 200W 100W 0 100E 200E 300E 400E
INTERPRETATION
N=1 2.7 2 2.4 1.7 1.2 2.7 1.9 2.1 2.1 1.1 NR 1 .8 .5 1.1
N=2 2.1 2 4.3 2.2 1.5 1.8 1.9 1.9 1.2 1.4 NR 1 .9 1.1 5.6
N=3 2.6 3 2.2 2 1.7 1.3 1.3 1.6 1 NR 1.9 1.7 4.5
N=4 4.2 2.4 2.1 2.2 1.2 3.3 2.9 2.1 .5 1.4 NR 5.7
N=5
N=6


FALCONBRIDGE WEST GRID LOSON X=50M METAL FACTOR
DIPOLE NUMBER 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
COORDINATE 300W 200W 100W 0 100E 200E 300E 400E
N=1 2.3 .8 1.2 .6 .4 .8 .6 .5 .3 NR .4 .5 .2 .2
N=2 1.6 .7 2.2 .7 .5 .5 .5 .7 .4 .4 NR .5 .6 .3 2.2
N=3 1.7 1.3 .7 .5 .5 .4 .4 .6 .5 .2 NR 1.1 .7 1.9
N=4 3.2 .7 .7 .6 .3 1.1 .7 .6 .2 .3 NR .7 3.4
N=5
N=6

DWG NO -I P-5916-21





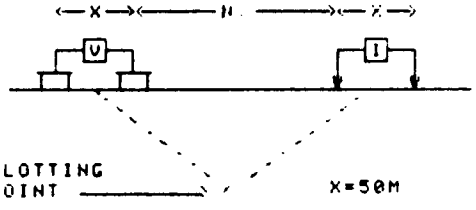


FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ./WEST GRID

ATLIN M D ,RAINY HOLLOW B C

LINE NO -15ON



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————

PROBABLE ....

POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0.0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1,-1.5 -2,-3,-5,-7.5,-10

DATE SURVEYED AUGUST 1981

APPPOVED

DATE NOV./81

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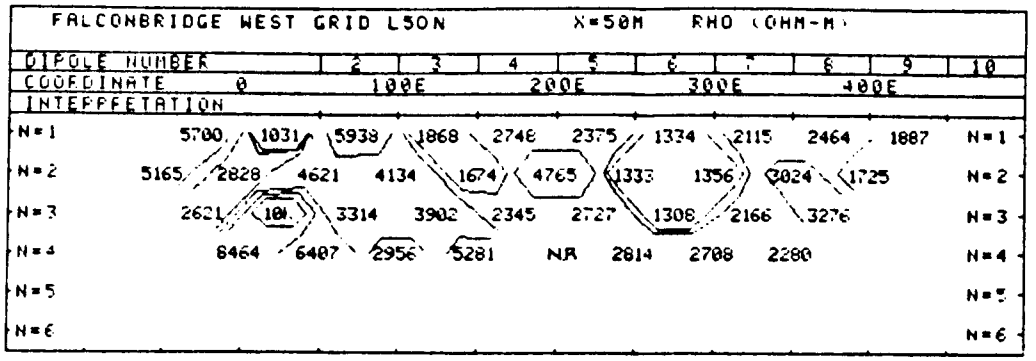
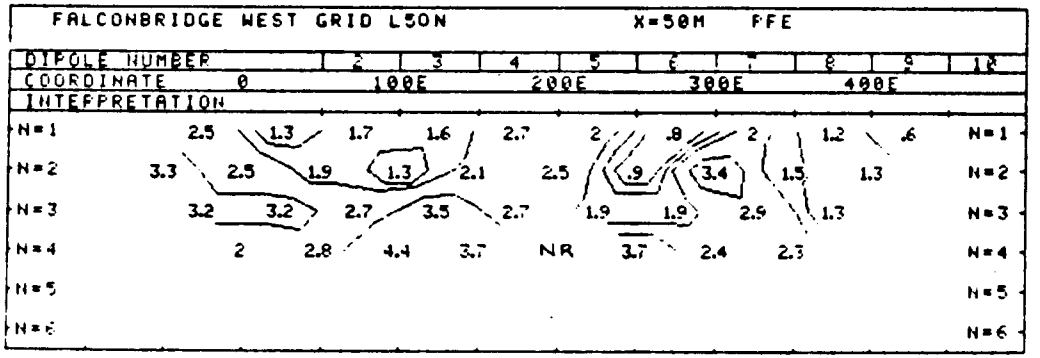
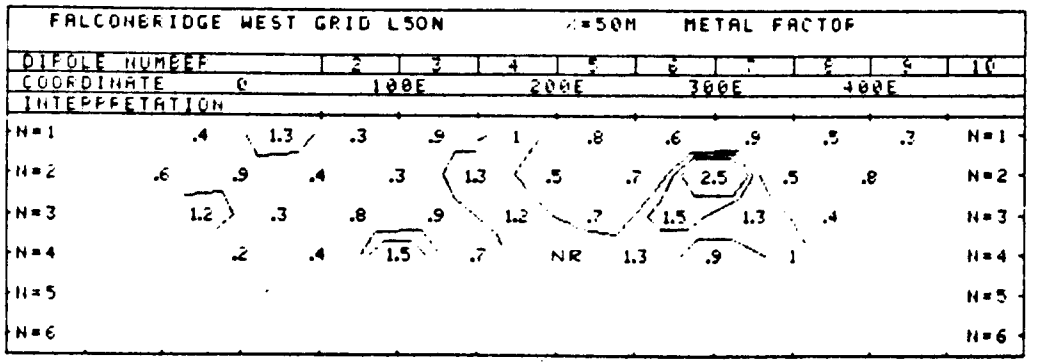






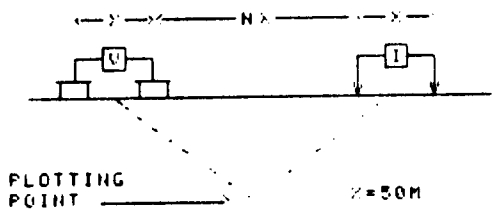
DWG NO -I P-5816-2

FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ WEST GRID

ATLIN M D / PAINY HOLLOW B C

LINE NO -5ON



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ....
POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0/0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1,-1 5 -2,-3,-5,-7 5,-10

DATE SURVEYED AUGUST 198

APPROVED

JD

DATE NOV 10/81

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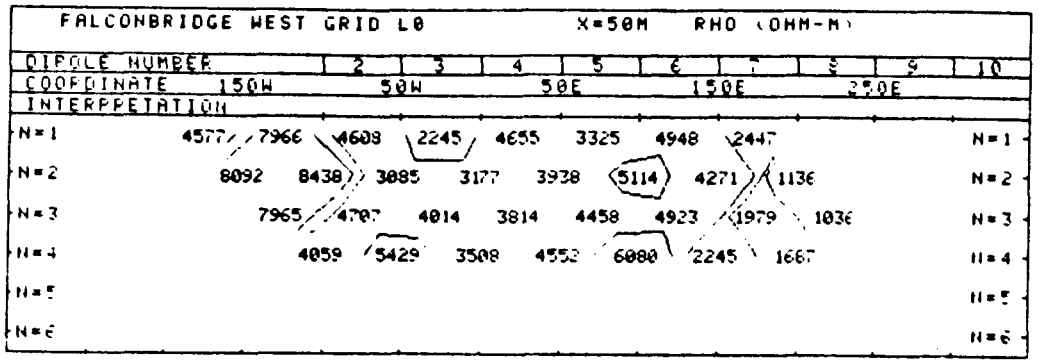
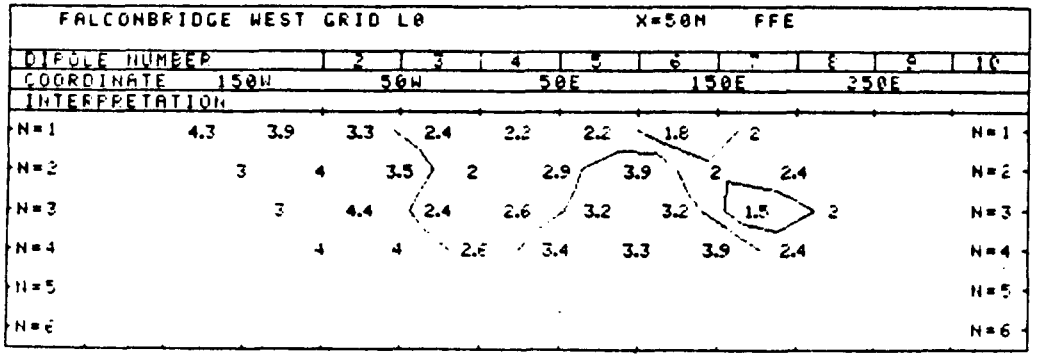
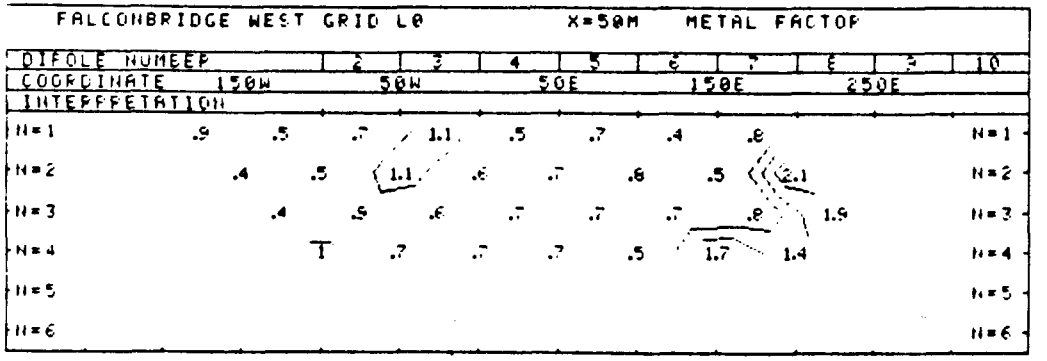
INDUCED POLARIZATION

AND RESISTIVITY SURVEY







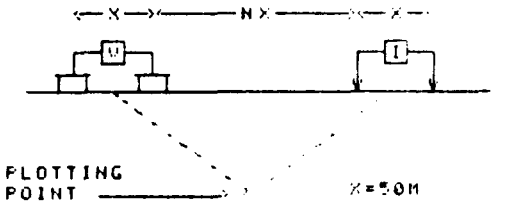
DWG NO -I P-5816-2

FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ.WEST GRID

ATLIN M D .PAINY HOLLOW P C

LINE NO - 0



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————
PROBABLE ....
POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0 0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1,-1 5 -2,-3,-5,-7 5,-10

DATE SURVEYED AUGUST 1981
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DATE Nov 10/81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION

AND RESISTIVITY SURVEY

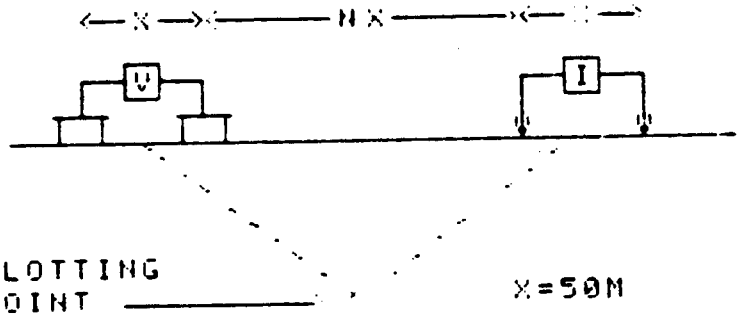
DWG NO -I P-5816-24

FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ.WEST GRID

ATLIN M D .PAINY HOLLOW B C

LINE NO -BASELINE 800 W



PLOTTING POINT

X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY (HERTZ)
4 0.0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1.-1 5 -2,-3.-5.-7 5.-10

DATE SURVEYED: AUGUST 1981

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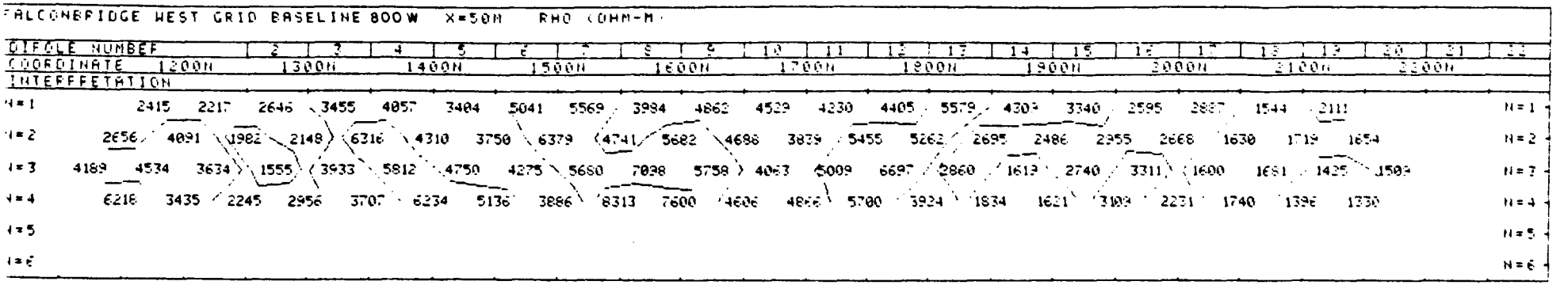
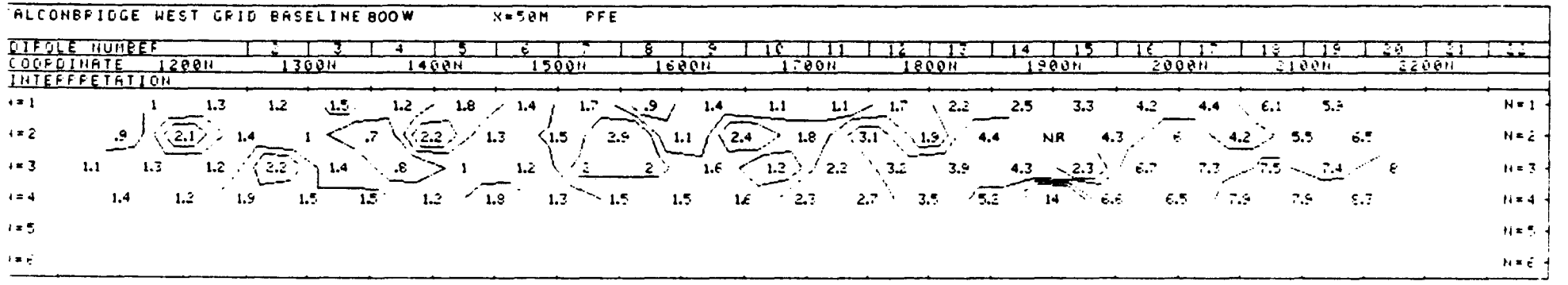
INDUCED POLARIZATION

AND RESISTIVITY SURVEY

FALCONBRIDGE WEST GRID BASELINE 800W X=50M RHO (OHM-M)



FALCONBRIDGE WEST GRID BASELINE 800W X=50M PFE



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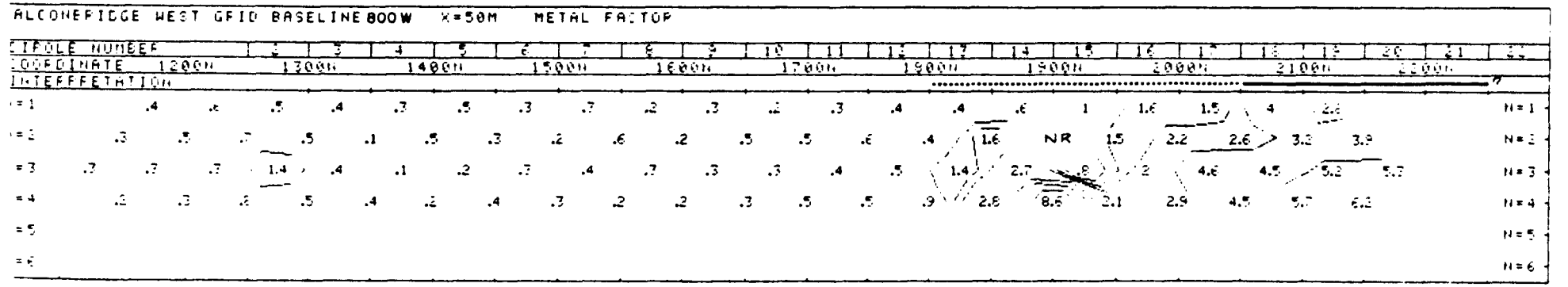

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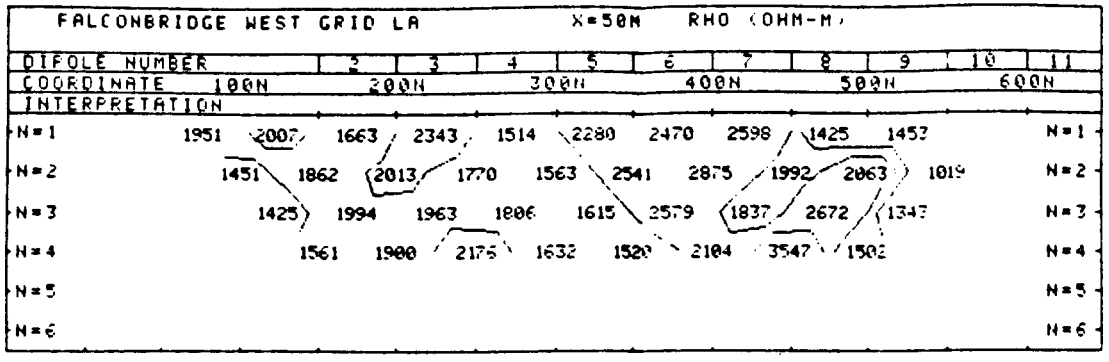
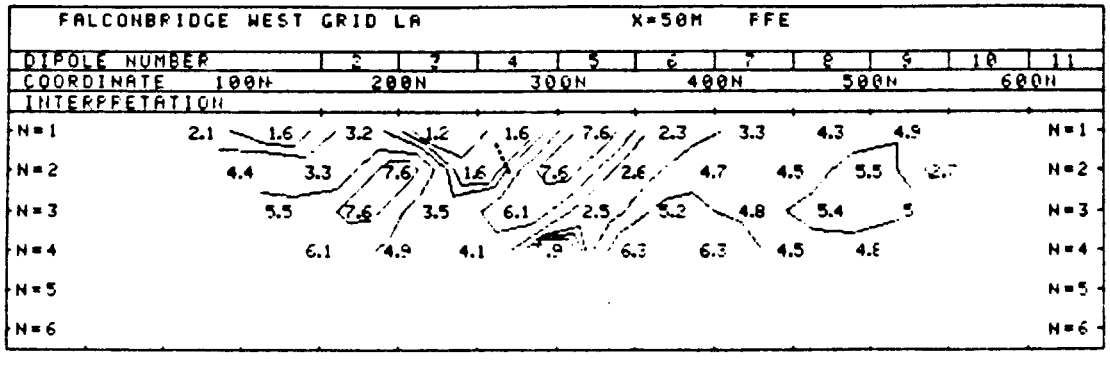
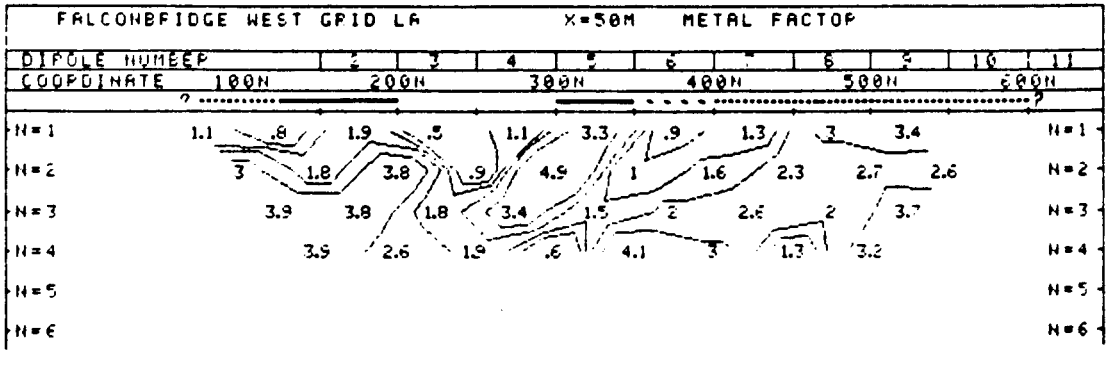




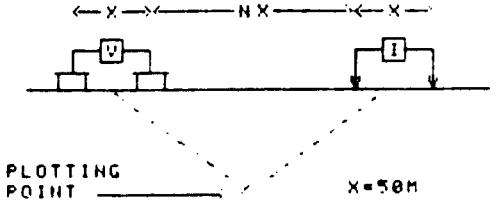


FALCONBRIDGE NICKEL MINES

MAID OF ERIN PROJ./WEST GRID

ATLIN M D ./PAINY HOLLOW B C

LINE NO - A



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————

PROBABLE ....

POSSIBLE - - - - - -

FREQUENCY (HERTZ)
4 0.0 25

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1,-1 5 -2,-3,-5,-7 5,-10

DATE SURVEYED AUGUST 1981

APPROVED

DATE NOVEMBER

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION

AND RESISTIVITY SURVEY

SECTION D

SOIL GEOCHEMISTRY RESULTS WEST GRID AREA

Maid of Erin Property, B.C.

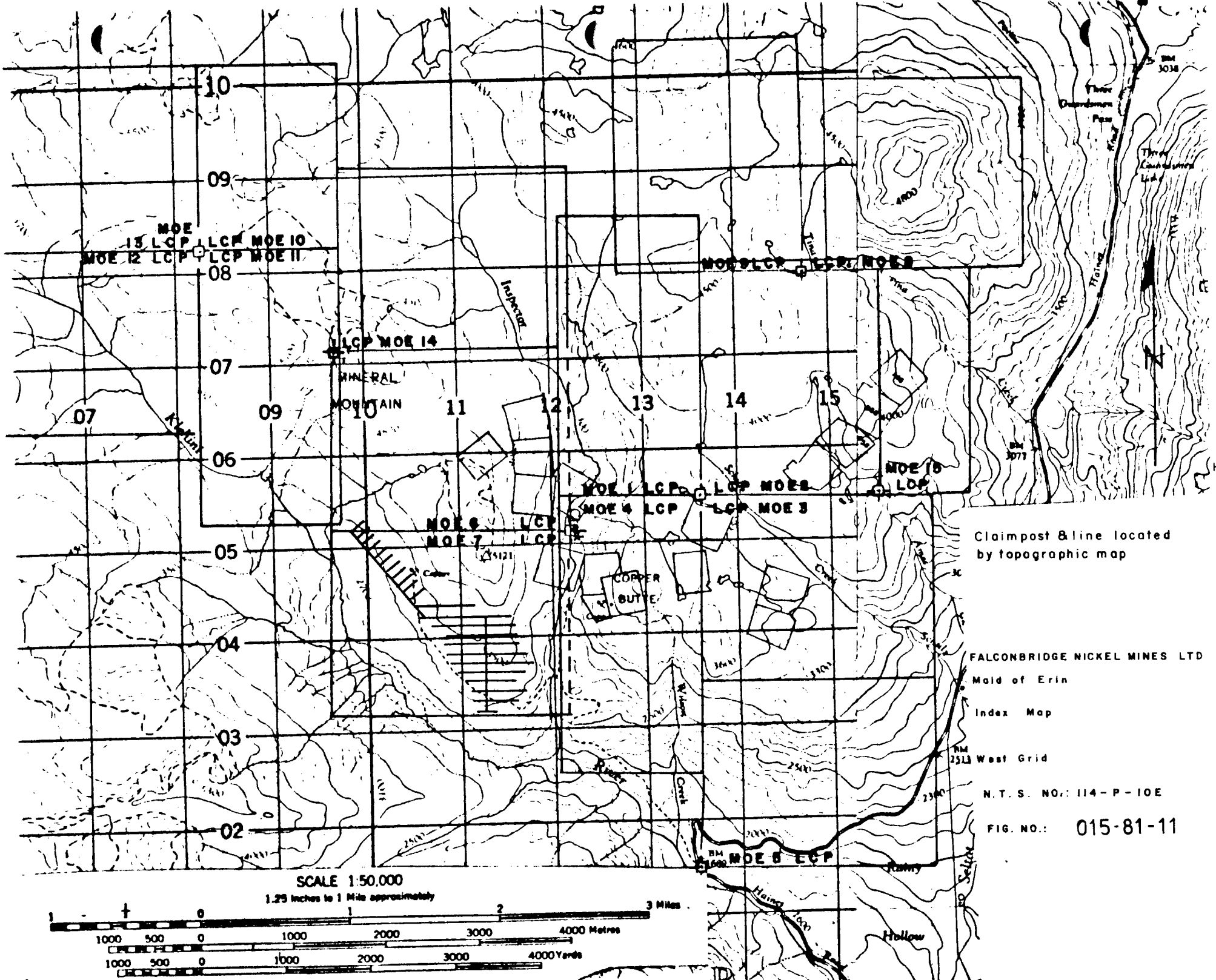
NTS 114P/10E PN 015

J. Wilson

Report # 19-015-81

TABLE OF CONTENTS

FIGURES



Claimpost & line located by topographic map

FALCONBRIDGE NICKEL MINES LTD

Mald of Erin

Index Map

West Grid

N.T.S. NO.: 114-P-10E

FIG. NO.: 015-81-11

GEOCHEMICAL REPORT - WEST GRID

Soil samples were usually collected at 75 metres intervals on lines 100 metres apart. (FIG 015-81-11). They were taken from the B-horizon at depths from 5 to 10cm. by using mattocks. Soil was placed in Kraft paper envelopes and was sent for geochemical analysis of the minus 80 mesh fraction of air dried sample.

A total of 113 samples were taken and analyzed by Bondar Clegg and Co. Ltd. by standard chemical analysis procedures:

- for Cu, Pb, Zn, and Ag extraction was by hot HNO_3-HCL and analysis was by Atomic Absorption.
- for W, extraction was by Basic Oxidizing Fusion and the analysis was colorimetric.

Samples were reanalyzed by ACME Analytical Laboratories Ltd. of Vancouver, B.C. by ICP geochemical analysis for Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, Th, Cd, Sb, Bi, V, Ca, P, La, In, Mg, Ba, Ti, B, Al, W, and U.

A 0.500 gram sample is digested with 3 ml. of 3:1:3 nitric acid to hydrochloric acid to water at 90 degree C for one hour. The sample is then diluted to 10.0 mls. and is aspirated by Inductively Coupled Argon Plasma (I.C.P.). Determination is by a direct reading ICP emission spectrometer.

This leach is partial for Ca, P, Mg, Al, Ti, La, and W. Very little Ba is dissolved.

Figure 015-81-36 is a plan map of the Bondar-Clegg results.

A concentration of multielement anomalies is located in the west part of the grid from lines 500 N to 800 N, high Cu, Ag, Pb, Zn, and W values occur here and coincide with the general location of most of the known skarn bands on the grid.

Interestingly, the high W values here are all at the extreme western end of the grid, very close to the intrusive contact, but the higher Cu, Zn, and Ag values are further from the contact.

A Pb, Zn rich zone appears on lines 800 N and 1000 N, adjacent to the previous anomaly, and coincides with extensions of the same skarn. However, no Pb or Zn mineralization was seen here. Elsewhere on the grid erratic single point/single element highs occur that

GEOCHEMICAL REPORT - WEST GRID (contd)

show no trend or known relation to bedrock.

Figures 015-81-39 to 015-81-65 are computer plots of ACME results. These maps, unlike the hand drafted Bondar-Clegg results, show perfectly squared grid lines. The location of samples plotted by hand is more accurate.

Fig 015-81-39 is a plot of sample numbers.

015-81-40 (ppm Mo) identifies the "main skarn zone" centred about L 800 N, 400 W. It also emphasises the northwest trend of this zone.

015-81-41 (ppm Cu) also indicates the main skarn zone by a threefold increase in values over background.

-42 (ppm Pb) clearly locates the main skarn zone. Other isolated anomalies lie close to the intrusive contact.

-43 (ppm Zn) indicated the main skarn zone by a twofold increase over background and indicates two "highs" to the east (near Line 700 N, 50 E and Line 300 N, 450 E).

-44 (ppm Ag) has a nearly perfect anomaly fit over the main skarn zone. Some scattered high values relate to other skarns.

-45 (ppm Ni) shows nothing meaningful

-46 (ppm Co) shows a possible "low" over the main skarn zone. Otherwise no consistent relationship can be seen

-47 (ppm Mn) indicates the main skarn zone and other known mineralization (e.g. L 600 N on the base line; L 300 N, 250W).

-48 (%Fe) has a slight anomaly over the main skarn zone.

-49 (ppm As) located most mineralized skarns.

-50 (ppm U) has no relation to known mineralization. Small anomalies near 600 N at the base line, 500 N at 350 W.

-51 (ppm Th) shows a fourfold increase over the main skarn zone and also follows a possible eastward extension of this zone. Interestingly, there is no comparable U distribution.

-52 (ppm Cd) locates the main skarn zone

-53 (ppm Sb) located the main skarn zone.

-54 (ppm Bi) located the main skarn zone and didn't produce any erratic highs through the rest of the map.

-55 (ppm V) shows nothing obvious. However, a "low" response may fall over the main skarn zone.

-56 (% Ca) indicated a trend of isolated high values close to the mapped skarn band from L 900 N, 650 W to L 500 N, 250W, to L 800 N, 150 E

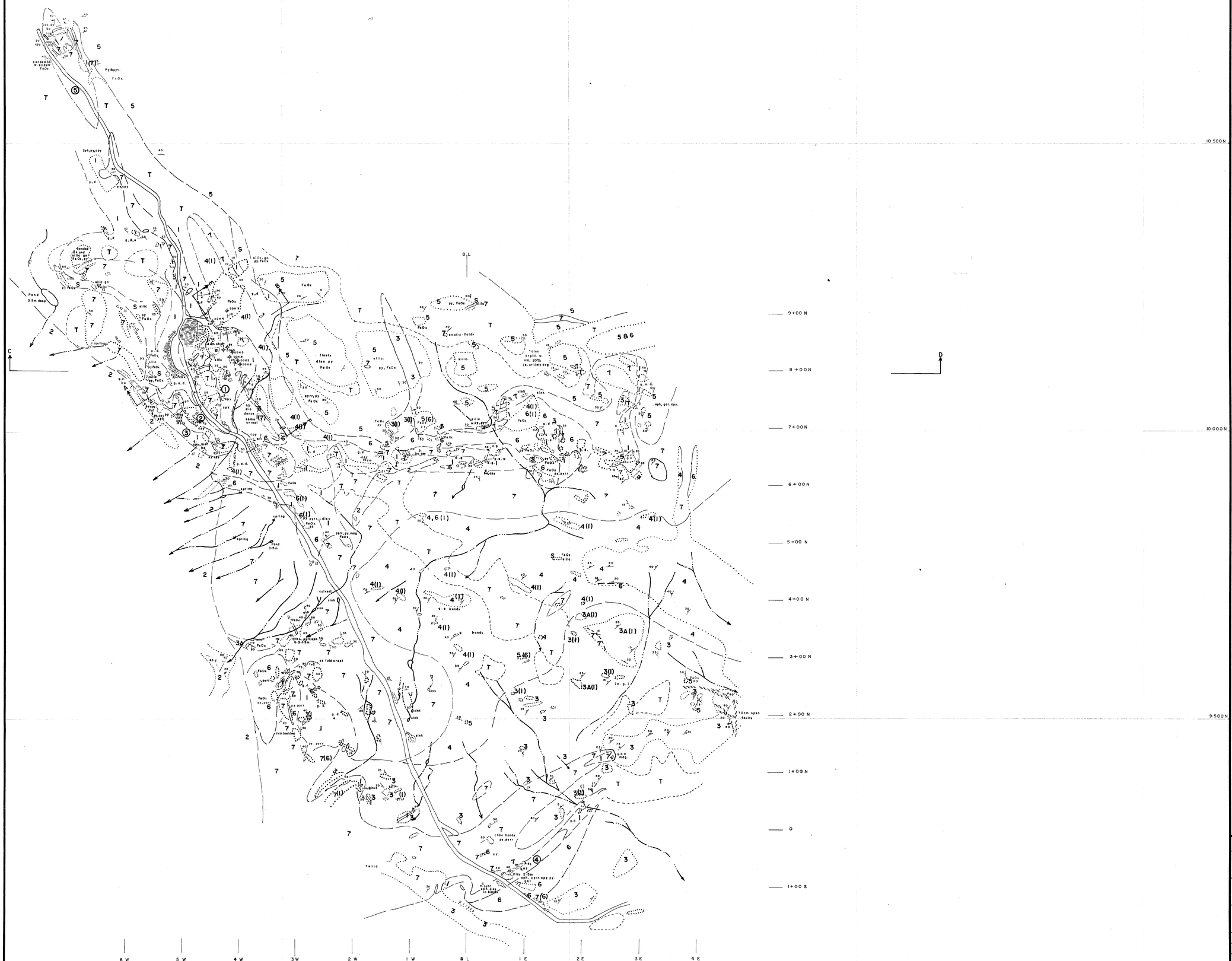
-57 (ppm P) has a vague association with a limestone band

-58 (ppm La) has a twofold response over the main skarn zone and a line of high responses on L 600 N following a skarn band. Two other "highs" are at L 300 N, 250 W, and L 500 N, 350 E.

-59 (ppm In) shows nothing meaningful

GEOCHEMICAL REPORT - WEST GRID (contd)

-60 (% Mg) locates the main skarn zone by an eightfold increase over background (e.g. L 900 N, 650 W to L 700 N, 350 W) and two smaller anomalies (L 400 N, at baseline and L 200 N at 275 E) thus giving a northwest trend.
-61 (% Ba) indicates only one small significant anomaly near L 700 N, 50 E.
-62 (ppm Ti) shows nothing meaningful
-63 (ppm B) shows nothing meaningful. The pattern of contours is probably computer induced.
-64 (% Al) doesn't locate the main skarn zone other than a low Al response here.
-65 (ppm W) has patchy values but mostly near the intrusive contact near the main skarn zone.



LEGEND

5 arg. Argillite: very fine grained, black, well bedded, variable pyrite & pyrrhotite both disseminated & along fractures somewhat siliceous in places commonly iron oxide stained on weathered surfaces

6 qtzite. Quartzsite (metamorphic) generally biotitic & or feldspathic, brown or more rarely white, fine grained, thin bedded, gneissic texture due to variable amount of black biotite, iron oxide coatings on weathered surfaces due to disseminated pyrite & pyrrhotite

7 ls. Limestone: generally well bedded, grey and white, locally fetid, in places metamorphosed to coarse grained white marble with no evidence of primary structure

4 bi. hb. gn. Biotite gneiss: light to dark medium to coarse grained, well foliated with quartz and feldspar bands interlayered with black biotite & minor hornblende

3 hb. di. gn. Hornblende diorite gneiss & diorite: grey to black, fine to coarse grained, generally foliated but in places crystalline, non-magnetic, little finely disseminated pyrite and pyrrhotite locally
3A hb. bi. gn. 3A Hornblende biotite gneiss

2 qtz. dio. Quartz diorite: medium grained white, biotite quartz diorite, very light brown weathering non-magnetic

ALTERATION

1 sk. Tactite (skarn)
g. garnet
d diopside
e epidote
w. wollastonite
a actinolite

S. Silicification

MINERALIZATION

bo. bornite
cpy. chalcopyrite
sph. sphalerite
gal. galena
mag. magnetite
py. pyrite
pyrr. pyrrhotite
FeOx. iron oxide

① Mineralized tactite zone

Contact
Assumed contact
Outcrop edge
Bedding
Foliation
Fracture
Fault
Syncline anticline and plunge of axis
Diamond drill hole
Shaft
Trench
New Road
T Talus covered

Tr. Trace
br. brown
wh. white

( ) Minor Component eg. 4(1)

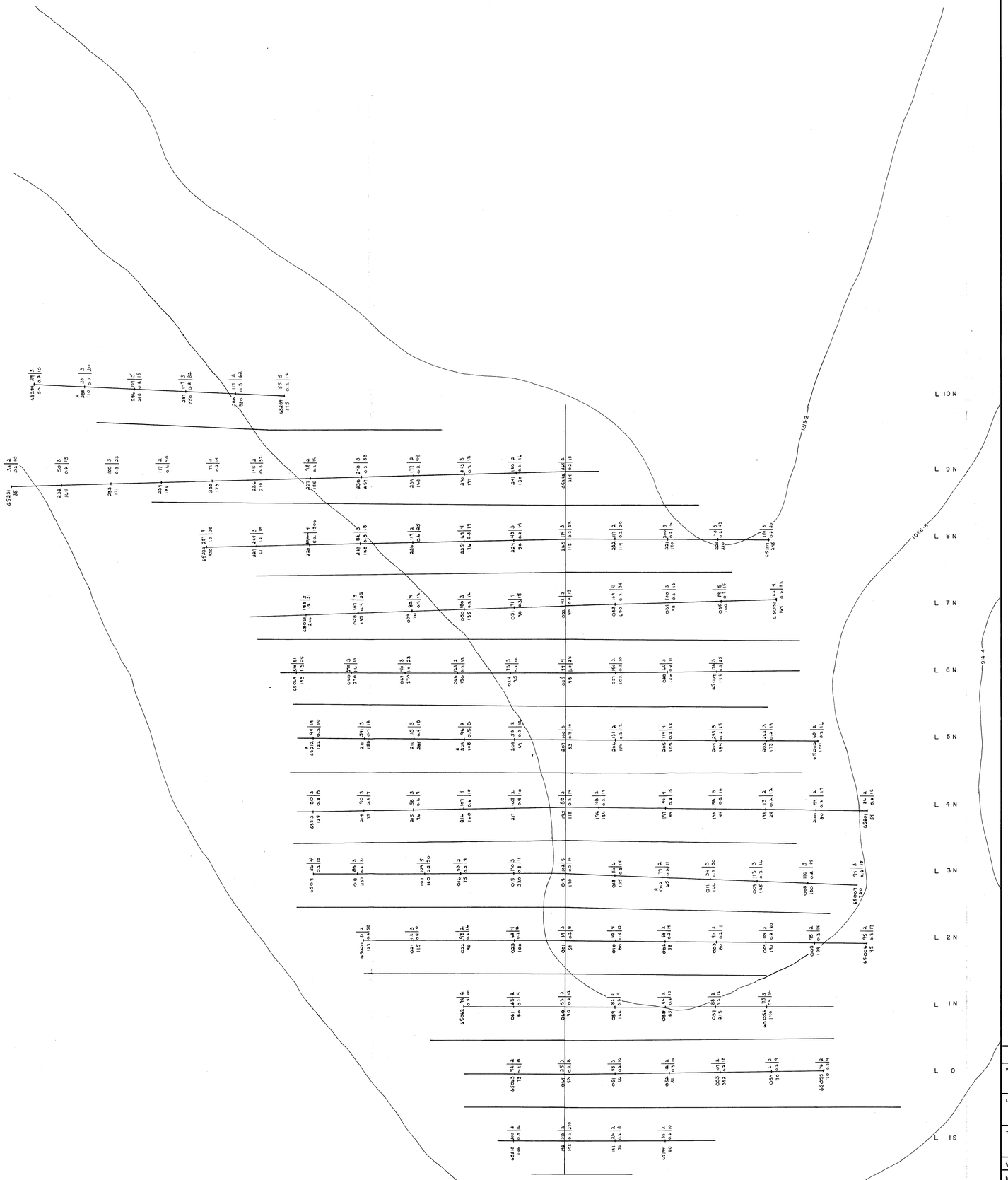
9978

50 0 50 100 150 m.

SCALE: 1:2500

FALCONBRIDGE NICKEL MINES LIMITED

PROPERTY: Maid of Erin	PROJECT NO.:
LOCATION: Rainy Hollow B.C.	
TYPE OF MAP: Geology	
WORKING PLACE: West. Grid.	
BASED ON: Gerry Noel	
DATE OF WORK: Aug. 1981	MAP REF. NO.:
DRAWN BY: G. T.	FIG. NO.:
DATE: Oct. 1981	N.T.S. NO.: 114-P-10
	015-81-32



LEGEND

W — 2/20 — Pb
Cu — 52/0.4 — Ag
sample no. — 67532/40 — Zn

ALL VALUES IN PPM.

50 0 50 100 150 m.

SCALE · 1 : 2500

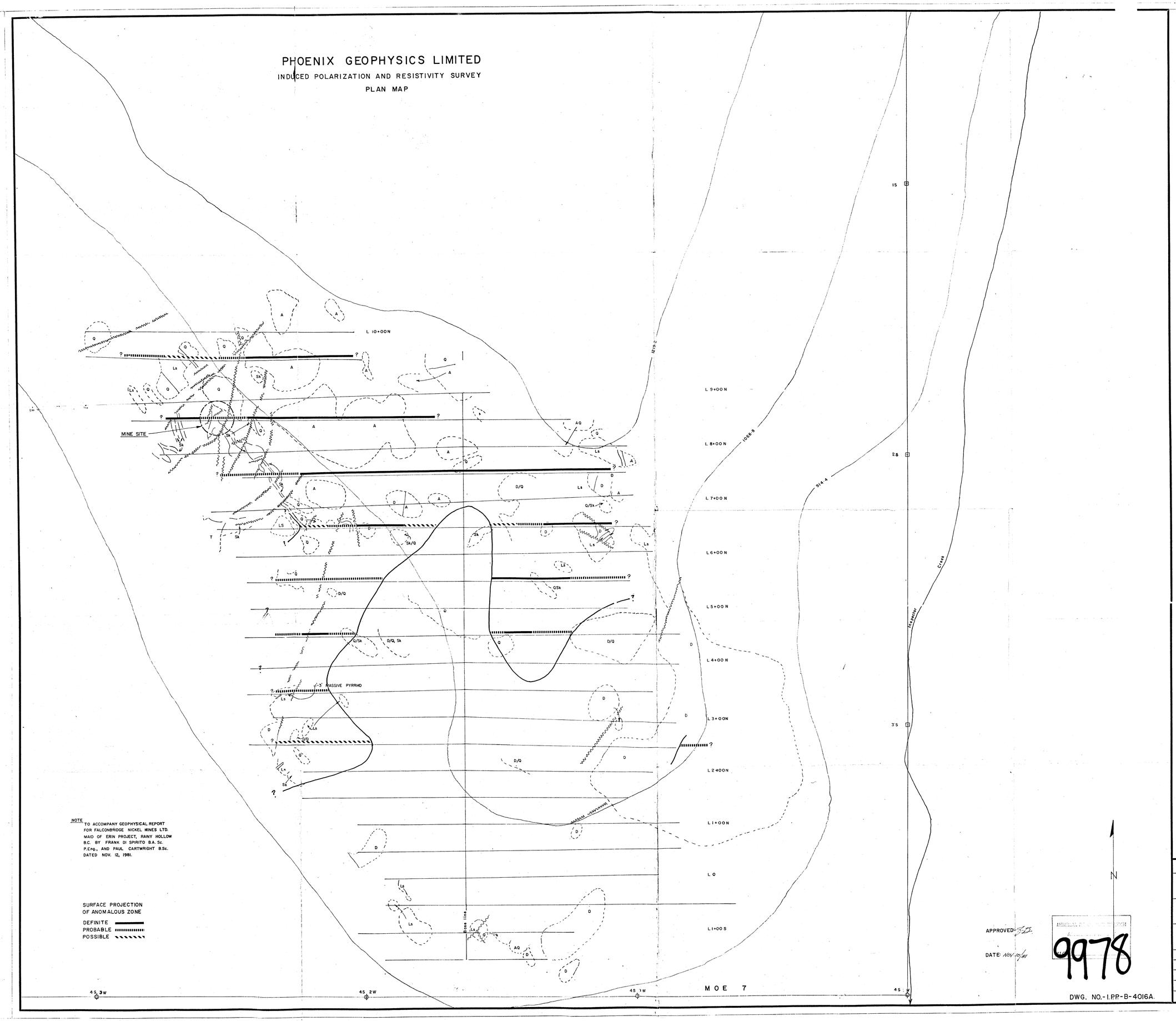
FALCONBRIDGE NICKEL MINES LIMITED

PROPERTY · Maid of Erin		
LOCATION · Rainy Hollow B.C.		
TYPE OF MAP · Soil Geochemistry		
WORKING PLACE · West Grid		
BASED ON ·		
DATE OF WORK · 1981	MAP REF. NO. ·	FIG. NO.
DRAWN BY · ASM		
DATE ·	N.T.S. NO. 114-P-10E	015-81-36

PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

PLAN MAP



NOTE

TO ACCOMPANY GEOPHYSICAL REPORT FOR FALCONBRIDGE NICKEL MINES LTD. MAID OF ERIN PROJECT, RAINY HOLLOW B.C. BY FRANK DI SPIRITO B.A. Sc. P.Eng., AND PAUL CARTWRIGHT B.Sc. DATED NOV. 12, 1981.

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——

PROBABLE ▪▪▪▪▪▪

POSSIBLE ▪ ▪ ▪ ▪

SURFACE GEOLOGY

- (A) AGILLITE WITH FRACTURE AND DISSEMINATED PYRITE AND PYRRHOTITE
- (Q) QUARTZITE
- (Ls) LIMESTONE
- (D) DIORITE
- (T) TONALITE
- (Sk) SKARN

50 0 50 100 150 m.

SCALE: 1: 2500

N

APPROVED: [illegible]

DATE: NOV. 10/81

ASSESSMENT REPORT 9978

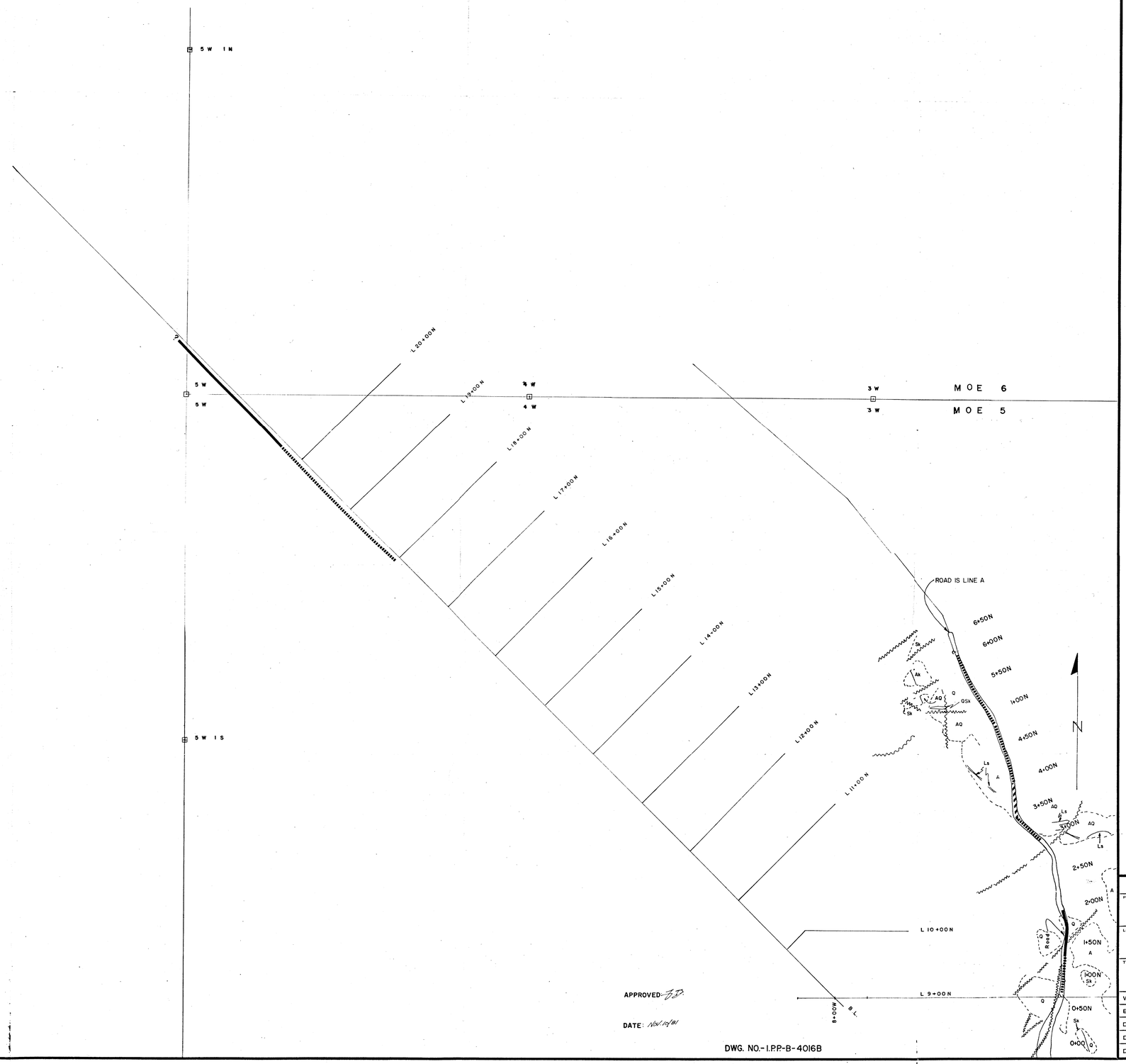
DWG. NO.- I.P.P-B-4016A.

FALCONBRIDGE NICKEL MINES LIMITED		
PROPERTY: Maid of Erin		PROJECT NO.
LOCATION: Rainy Hollow B.C.		
TYPE OF MAP:		
WORKING PLACE: West Grid		
BASED ON:		
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:
DRAWN BY: R.G.M.		
DATE: NOV. 10, 1981	N.T.S. NO.: 114-P-10E	015-81-12

PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

PLAN MAP



NOTE TO ACCOMPANY GEOPHYSICAL REPORT FOR FALCONBRIDGE NICKEL MINES LTD. MAID OF ERIN PROJECT, RAINY HOLLOW B.C. BY FRANK DI SPIRITO B.A.Sc., P.Eng., AND PAUL CARTWRIGHT B.A.Sc. DATED NOV. 12, 1981.

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ——————

PROBABLE ·····

POSSIBLE \ \ \ \ \ \

APPROVED F.D.

DATE: Nov. 19/81

DWG. NO.- I.P.P-B-4016B

SURFACE GEOLOGY

(A) - AGILLITE = WITH FRACTURE AND DISSEMINATED PYRITE AND PYRRHOTITE

(Q) - QUARTZITE

(Ls) - LIMESTONE

(D) - DIORITE

(T) - TONALITE

(Sk) - SKARN

AS

9978

50 0 50 100 150m

SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LIMITED

PROPERTY: Maid of Erin	PROJECT NO.:
LOCATION: Rainy Hollow B.C.	
TYPE OF MAP:	
WORKING PLACE: West Grid	
BASED ON:	
DATE OF WORK:	MAP REF. NO.:
DRAWN BY: R.G.W.	FIG. NO.:
DATE: NOV. 10, 1981	N.T.S. NO.: 114-P-10E

015-81-13

8 W 7 W 6 W 5 W 4 W 3 W 2 W 1 W B.L. 1 E 2 E 3 E 4 E 5 E

9+50 N
8+50 N
7+50 N
6+50 N
5+50 N
4+50 N
3+50 N
2+50 N
1+50 N
0+50 N
0+50 S

Depth 50 m.
Proposed D.D.H. 2
Malachite Crust
Depth 60-75 m.
Proposed D.D.H. 1

N
V.L.F. Stn. 23-4
Tilt Direction 120°

MOE 7

4S 4W | 4S 3W | CLAIM LINE | 4S 2W | 4S 1W

LEGEND

Electromagnetic Survey
Inst. Ronka E.M.16 Serial No. 2
V.L.F. Stn. 23-4 Tilt Direction 120°
Inphase Profile
Quadrature Profile
Conductors
Secondary Conductor

50 0 50 100
SCALE: 1:2500

FALCONBRIDGE NICKEL MINES LTD.

PROPERTY: Maid of Erin

LOCATION: Rainy Hollow B.C.

TYPE OF MAP: E.M.16. Profile Stn. 23-4

BASED ON: Fieldwork by S.P.

DATE OF WORK: Sept. 1981

WORKING PLACE: West Grid

DRAWN BY: S.P. Sept. 1981

N.T.S. NO.: 114-P-10E FIG. NO.: 015-81-25

8 W 7 W 6 W 5 W 4 W 3 W 2 W 1 W BL 1 E 2 E 3 E 4 E 5 E

L9+50 N
L8+50 N
L7+50N
L6+50 N
L5+50 N
L4+50 N
L3+50 N
L2+50N
L1+50N
L0+50 N
L0+50 S

Road
Adit
Trench

Malachite
Cherty

N

V.L.F. Stn 23.4
Tilt Direction 120°

MOE 7

4S 4W — 4S 3W — CLAIM LINE — 4S 1W — 4S 1W

LEGEND

Electromagnetic Survey
Inst. Ronka E.M.16 Serial No. 2
V.L.F. Stn. 23.4 Tilt Direction 120°
Inphase Contours —10— 10 —
Conductors —①— ① —
Secondary Conductor — — — —
Reverse cross-over — — RO — — —

50 0 50 100m.

SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.

PROPERTY: Mold of Erin

LOCATION: Rainy Hollow B.C.

TYPE OF MAP: E.M.16 Contoured

BASED Fieldwork by S.P.

DATE OF WORK: Sept. 1981

WORKING PLACE: West Grid

DRAWN BY: S.P. Sept. 1981

N.T.S. NO.: 114-P-10E FIG. NO.: 015-81-27

5 W IN

5 W 1S

5 W 2S

5 W

5 W

4 W

4 W

3 W

3 W

MOE 6

MOE 5

L 20 N

L 19 N

L 18 N

L 17 N

L 16 N

L 15 N

L 14 N

L 13 N

L 12 N

L 11 N

A-1

N

V.L.F. Stn. 23-4
Tilt. Direction 120°

9978

LEGEND

Electromagnetic Survey
Instrument Ronka E.M.16 Serial No 2
V.L.F. Stn. 23-4 Tilt Direction 120°
Inphase Contours every 10%

50 0 50 100m

SCALE : 1:2-500

FALCONBRIDGE NICKEL MINES LTD.

PROPERTY: Maid of Erin

LOCATION: Rainy Hollow B.C.

TYPE OF MAP: E.M.16 Contoured

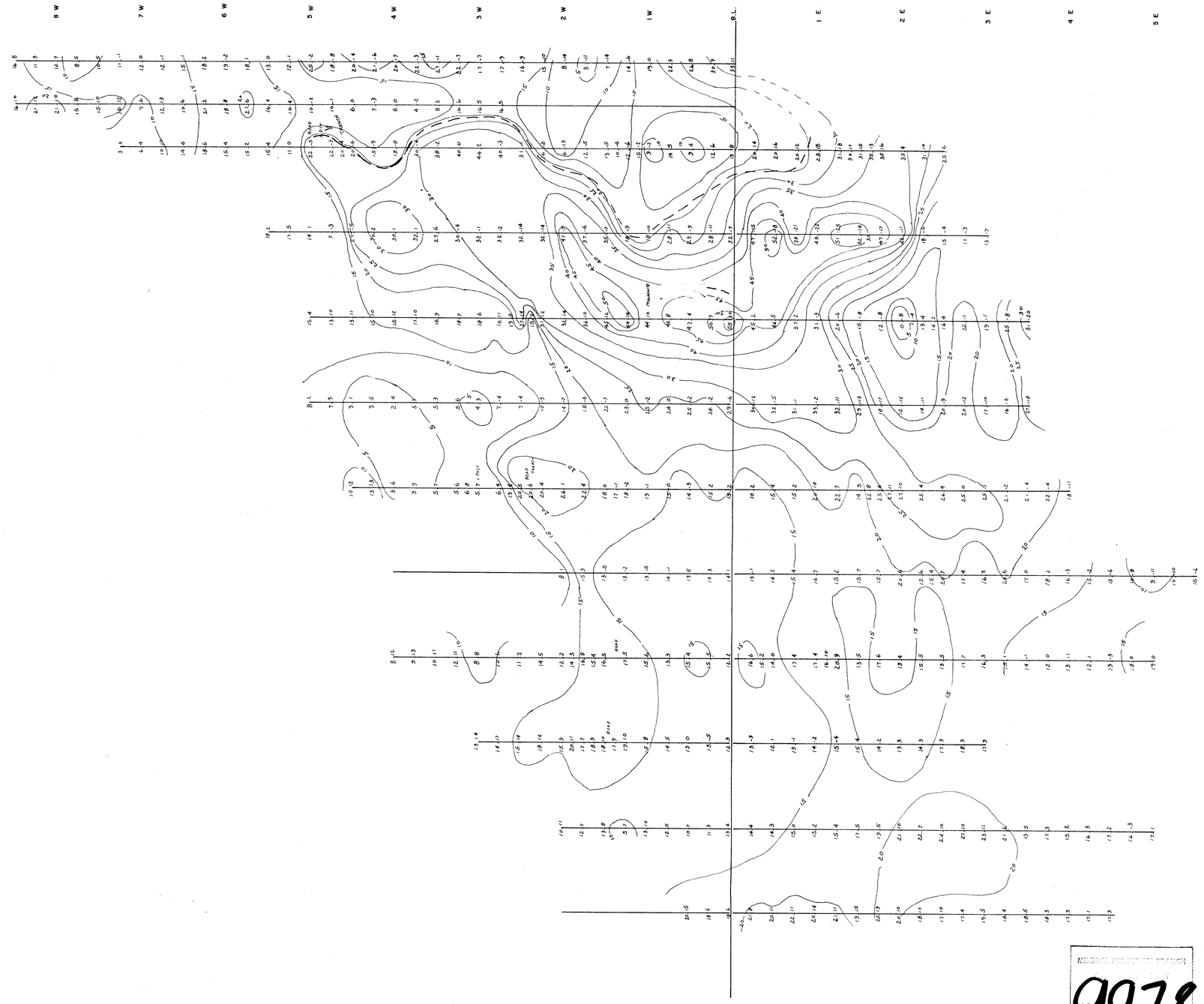
BASED ON: Fieldwork by S.P.

DATE OF WORK: Sept. 1981

WORKING PLACE: West. Grid

DRAWN BY: S.P. Sept. 1981

N.T.S. NO.: 114-P-10E FIG. NO.: 015-81-28



MINERAL RESOURCES BRANCH
GEOLOGICAL SURVEY

9978

LEGEND

Electromagnetic Survey
Instrument Ronka E.M.16. Serial No. 2
V.L.F Stn. 17-8 Tilt Direction 360°
Inphase Contours Every 10%
Secondary Conductor — — — —

50 0 50 100 m.

SCALE: 1:2-500

FALCONERIDGE NICKEL MINES LTD.

PROPERTY: Maid of Erin

LOCATION: Rainy Hollow B.C.

TYPE OF MAP: E.M.16. Contoured

BASED ON: Fieldwork by S.P.

WORKING PLACE: West Grid.

DATE OF WORK: Sept. 1981

DRAWN BY: S.P. Sept. 1981

N.T.S. NO.: 114-P-10E FIG. NO.: 015-81-29

V.L.F. St. 17-8
Tilt Direction 360°

N

5W 1N

5W

4W

3W

MOE 6

MOE 5

L 20 N

L 19 N

L 18 N

L 17 N

L 16 N

L 15 N

L 14 N

L 13 N

L 12 N

L 11 N

5W 1S

5W 2S

LEGEND

Electromagnetic Survey
Instrument-Ronka E.M. 16, Serial No. 2
V.L.F. St. 17-8 Tilt Direction 360°
Inphase Contours every 10%
Conductors —0—0—0—
Only two very weak Conductors indicated
one on B.L. 11+25 N and the other between lines 13 and 14 N

50 0 50 100 m.

SCALE: 1:2500

FALCONBRIDGE NICKEL MINES LTD.

PROPERTY: Maid of Erin

LOCATION: Rainy Hollow B.C.

TYPE OF MAP: E.M.16 Contoured St. 17-8

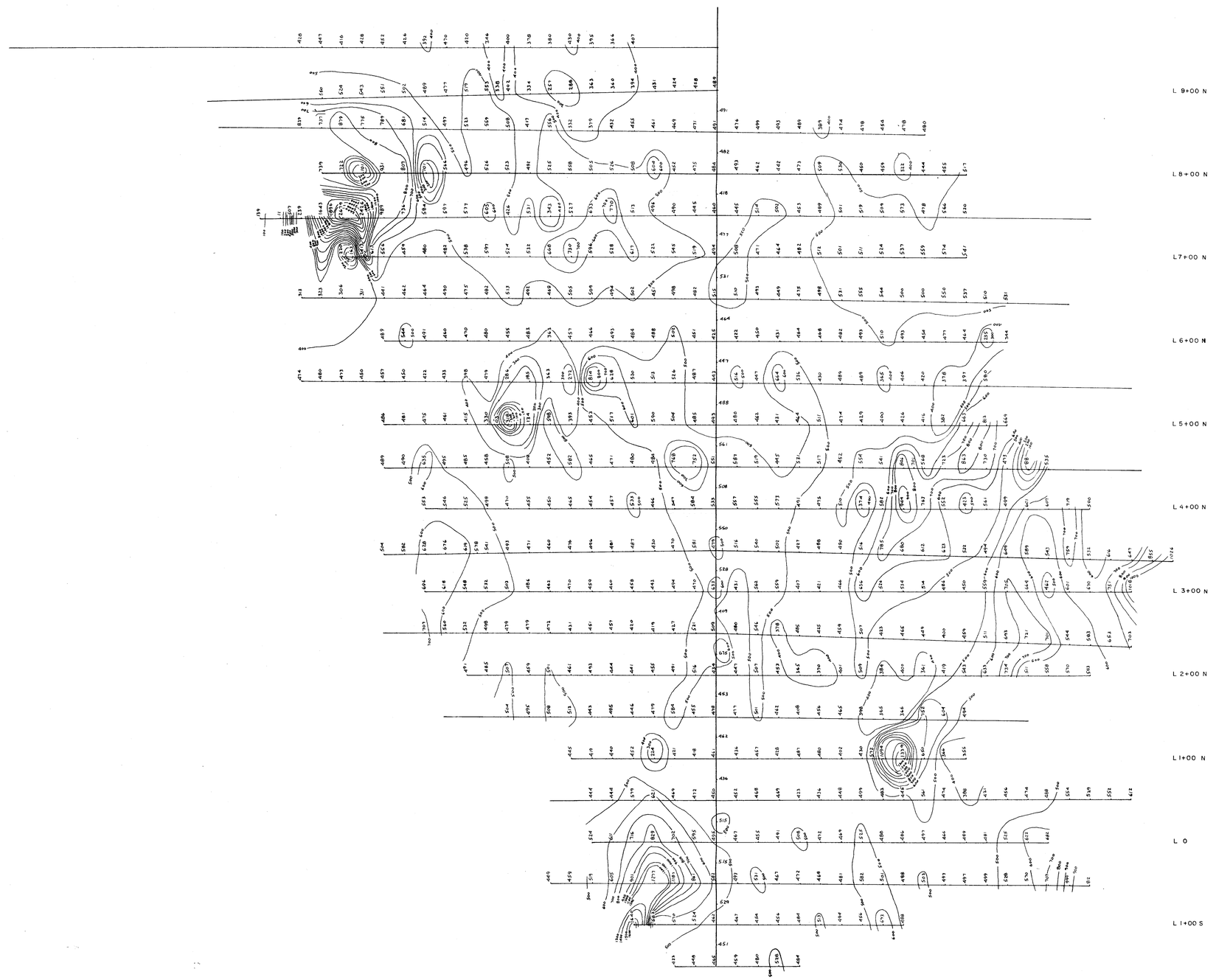
BASED ON: Fieldwork by S.P.

DATE OF WORK: Sept. 1981

WORKING PLACE: West Grid

DRAWN BY: S.P. Sept. 1981

N.T.S. NO.: 114-P-10E FIG. NO.: 015-81-30



MOE 7

4S 4W — 4S 3W — CLAIM LINE — 4S 2W — 4S 1W

LEGEND

Magnetometer Survey
Inst- Barringer Proton Magnetometer
Model No. GM122 Ser.No. 6733
Total Field Intensity- 57450 Gammas
Operator - P. P

50 0 50 100 m.

SCALE : 1:2-500

FALCONBRIDGE NICKEL MINES LTD.

PROPERTY: Maid of Erin

LOCATION: Rainy Hollow B.C.

TYPE OF MAP: Magnetometer Contoured

BASED ON: Fieldwork by P.P.

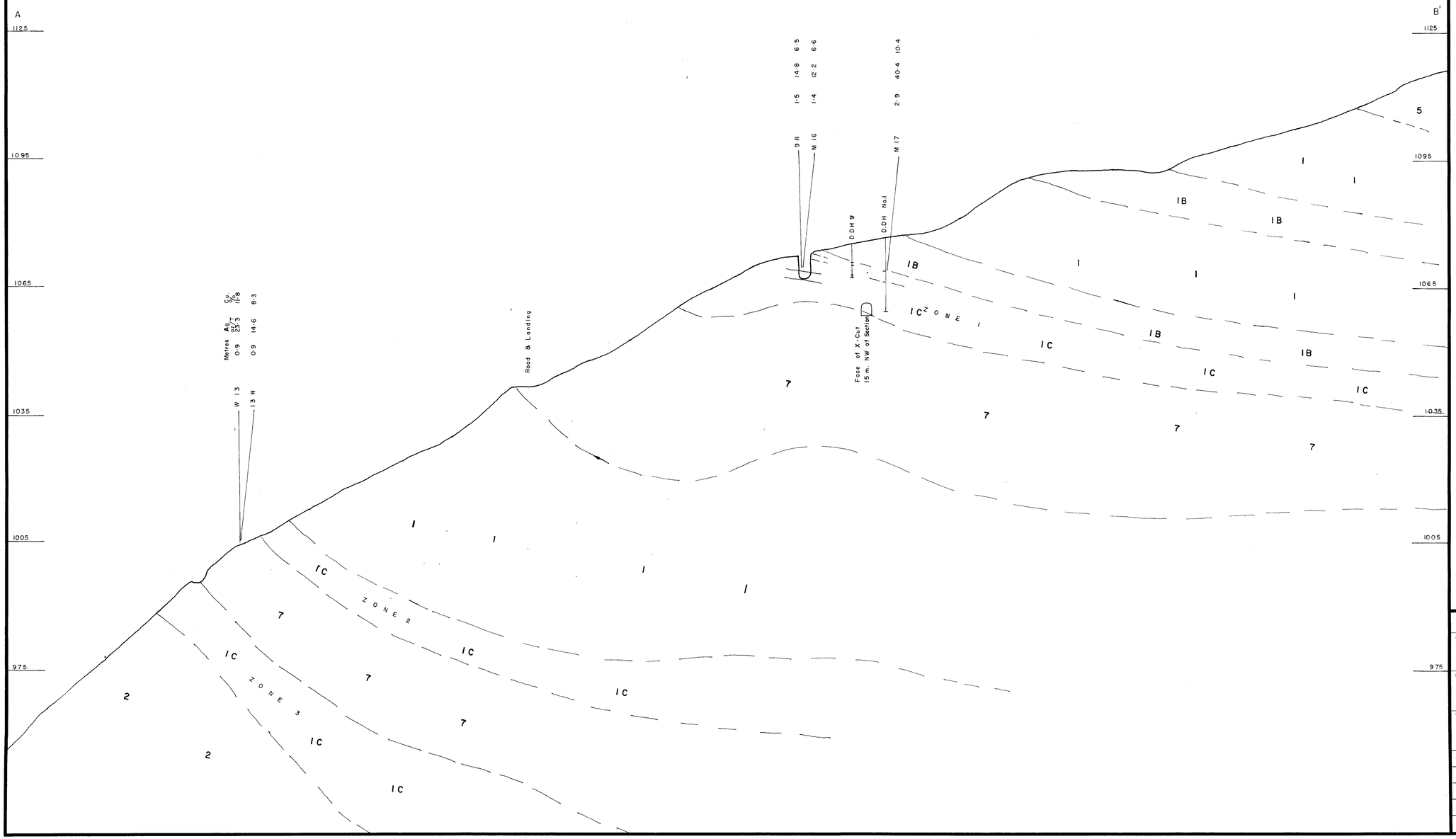
DATE OF WORK: Aug. 1981

WORKING PLACE: West Grid

DRAWN BY: P.P. Aug. 1981

N.T.S. NO.: 114-P-10E FIG. NO.: 015-81-31

MAP REF. NO.:
N.T.S.:



LEGEND

- 1 Skarn (unmineralized)
- 1B Banded Skarn
- 1C Mineralized Skarn (Sulphides)
- 2 Quartz diorite
- 5 Argillite
- 7 Limestone

NO. 9978

10 0 10 20 30m

SCALE: 1:500

FALCONBRIDGE NICKEL MINES LIMITED

PROPERTY: Maid of Erin

LOCATION: Rainy Hollow B. C.

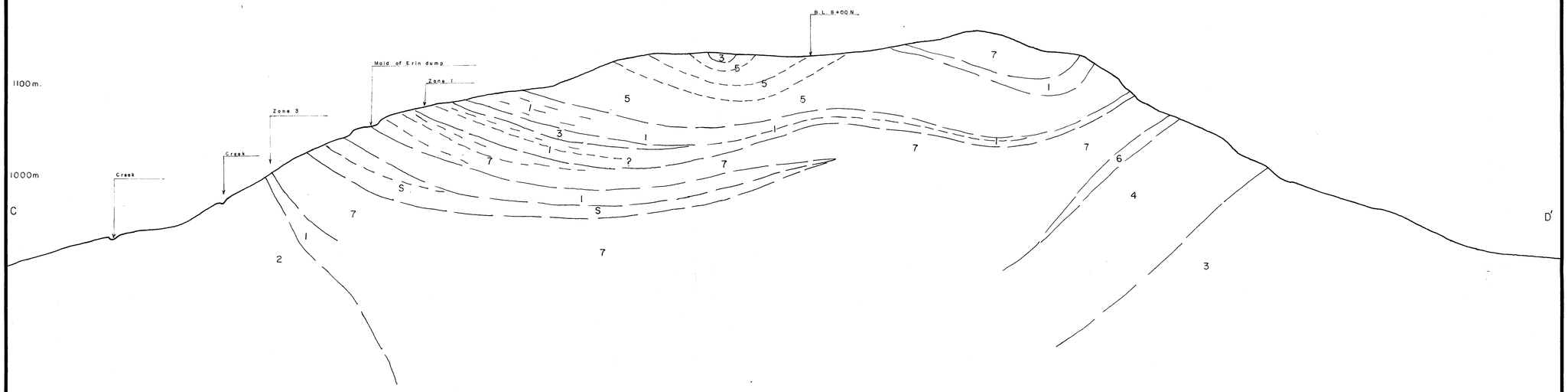
TYPE OF MAP: Long Section A. B' looking N 35° W

WORKING PLACE: West Grid

BASED ON: G.N.

DATE OF WORK: Aug. 1981	MAP REF. NO.:	FIG. NO.:
DRAWN BY: G.T.		015-81-33
DATE: Dec. 1981	N.T.S. NO.: 114-P-10E	

MAP REF. NO.:
N.T.S.:



LEGEND

1 Skarn

2 Quartz diorite

3 Hornblende diorite gneiss

4 Biotite gneiss

5 Argillite

6 Quartzite

7 Limestone

S Silicification

Mineralization

East–West Section 8+00 N
across Maid of Erin Workings
and Mineral Mountain

50 0 50 100 150m.

SCALE: 1:2·500

ASSESSMENT REPORT 9796

FALCONBRIDGE NICKEL MINES LIMITED

PROPERTY: Maid of Erin

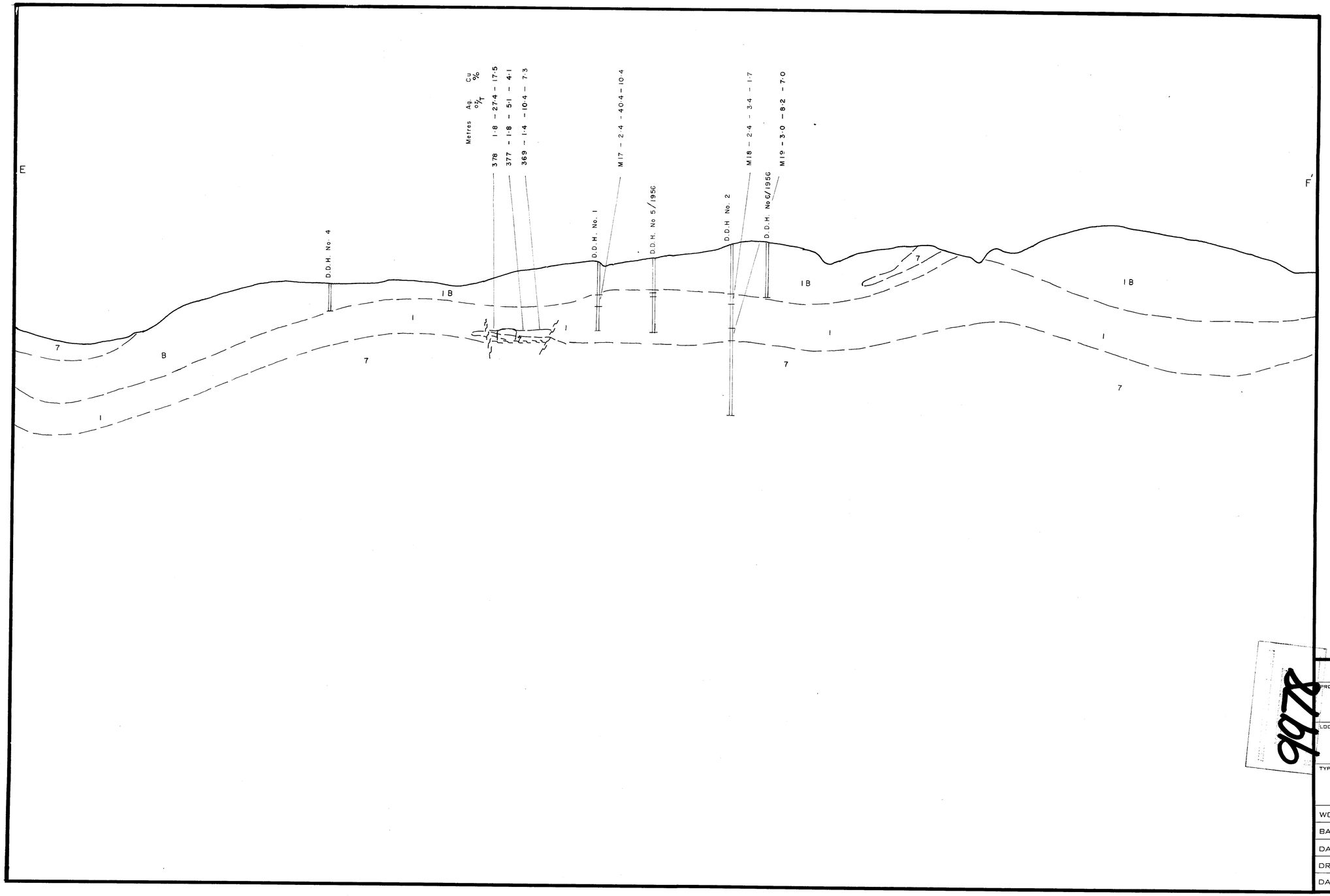
LOCATION: Rainy Hollow B.C.

TYPE OF MAP: Section C–D' (Looking North)

WORKING PLACE: West Grid

BASED ON: Fieldwork by G.N.

DATE OF WORK: Aug. 1981	MAP REF. NO.:	FIG. NO.:
DRAWN BY: G.T.		
DATE: Nov. 1981	N.T.S. NO.: 114-P-10E	015-81-34



Drill and assay data
from earlier reports
and map M.E. 17 1949 & 56

LEGEND

- 1B — Banded skarn (includes skarn altered gneiss)
- 1 — Mineralized skarn
- 7 — Limestone
- Sulphide mineralization

10 0 10 20 30m

SCALE: 1:500

2178

FALCONBRIDGE NICKEL MINES LIMITED

PROPERTY: Maid of Erin

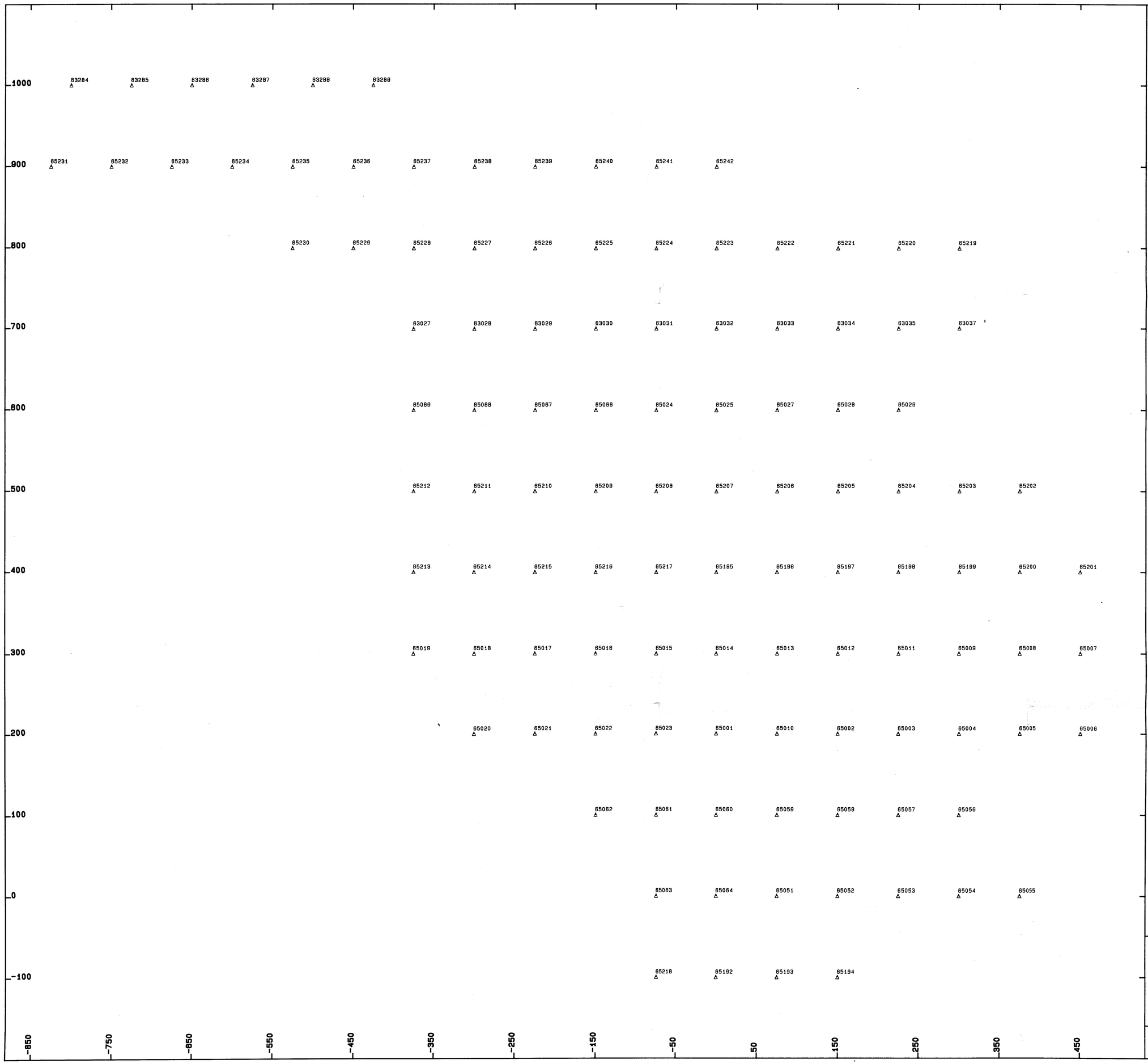
LOCATION: Rainy Hollow B. C.

TYPE OF MAP: Long Section E – F (looking N 58° E)

WORKING PLACE: West Grid

BASED ON: G. N.

DATE OF WORK: Aug. 1981	MAP REF. NO.:	FIG. NO.:
DRAWN BY: G. T.		
DATE: Nov. 1981	N.T.S. NO.: 114 – P – 10E	015-81-35



50 0 50 100 150 m

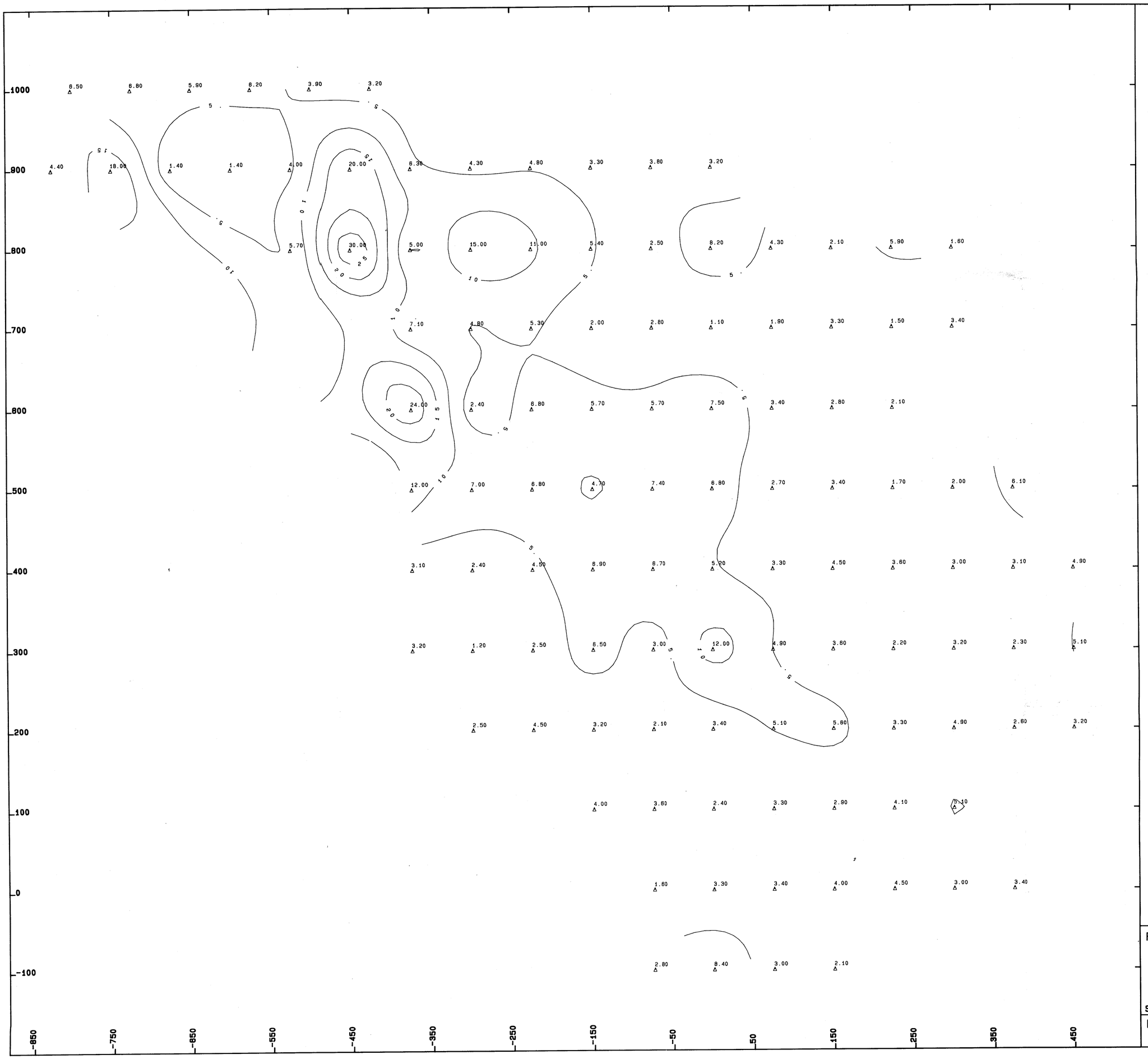
SCALE: 1:2500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: SAMPLE NUMBERS
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-39

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



50 0 50 100 150 m

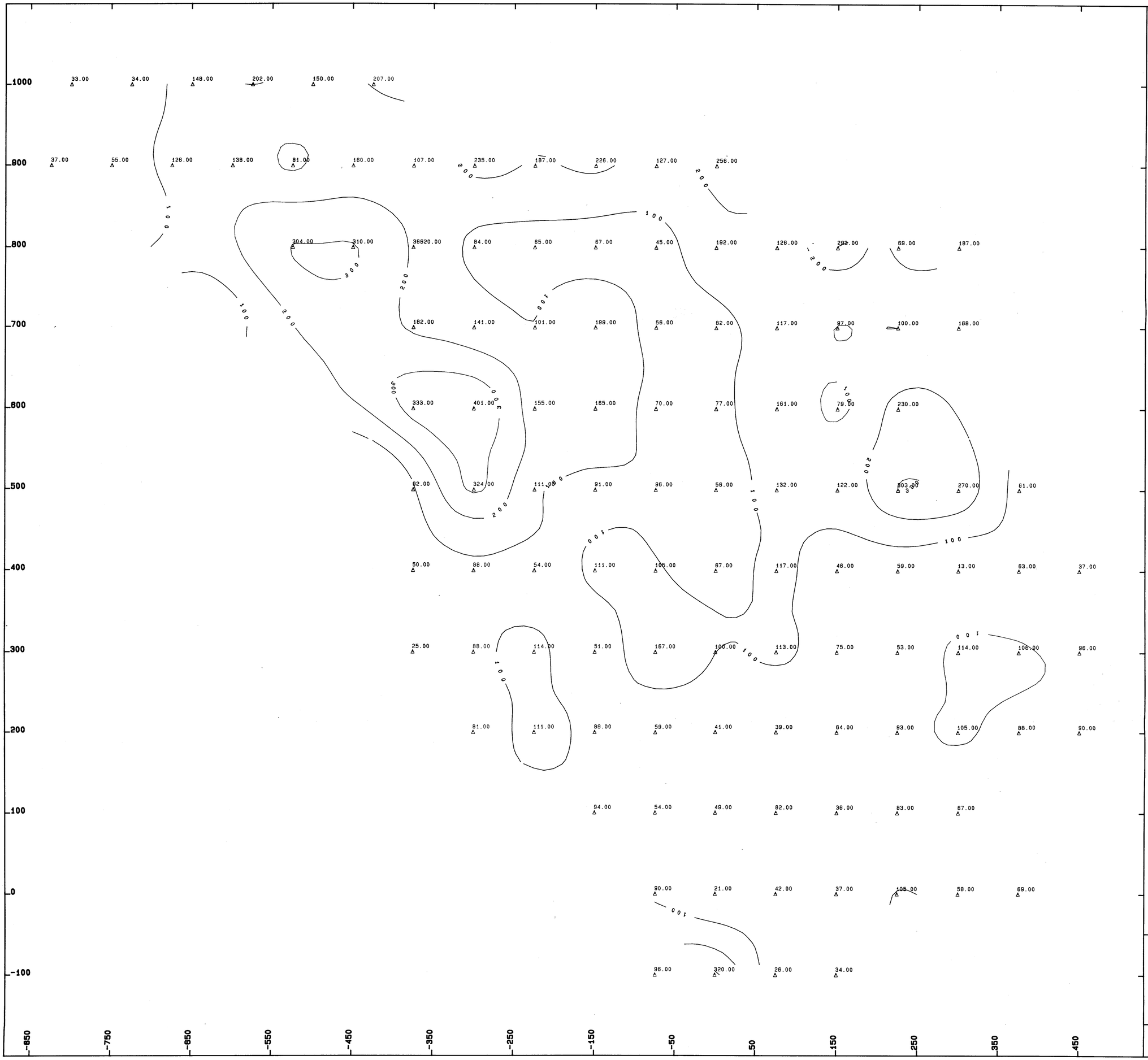
SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Mo
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-40

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



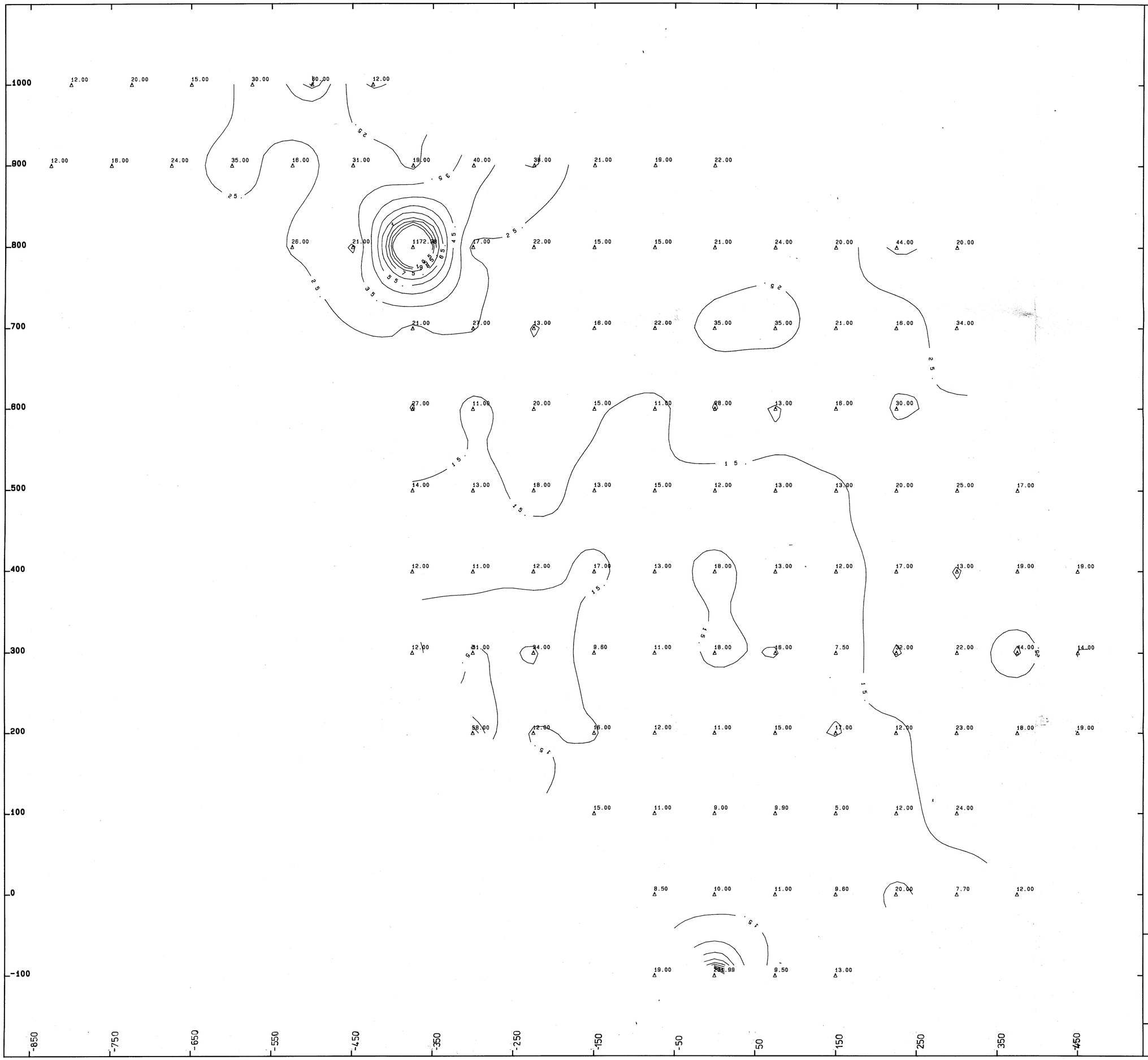
9978

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Cu
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-41

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

50 0 50 100 150 m

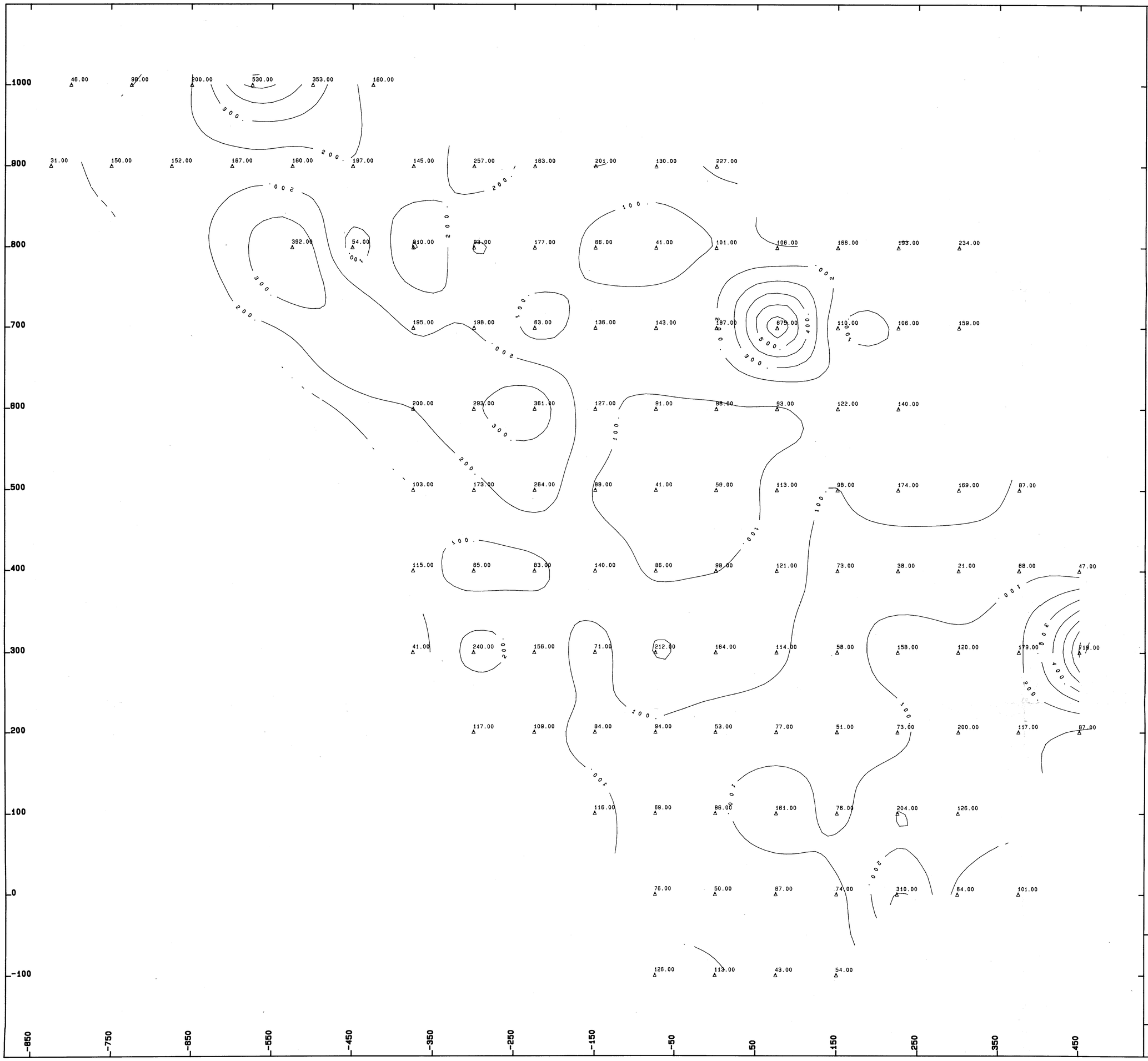
SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 022

SOILS GEOCHEMISTRY: PPM Pb
WEST GRID

NTS 114P / 10E DEC 1981
FIG. NO. 015-81-42

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

50 0 50 100 150 m

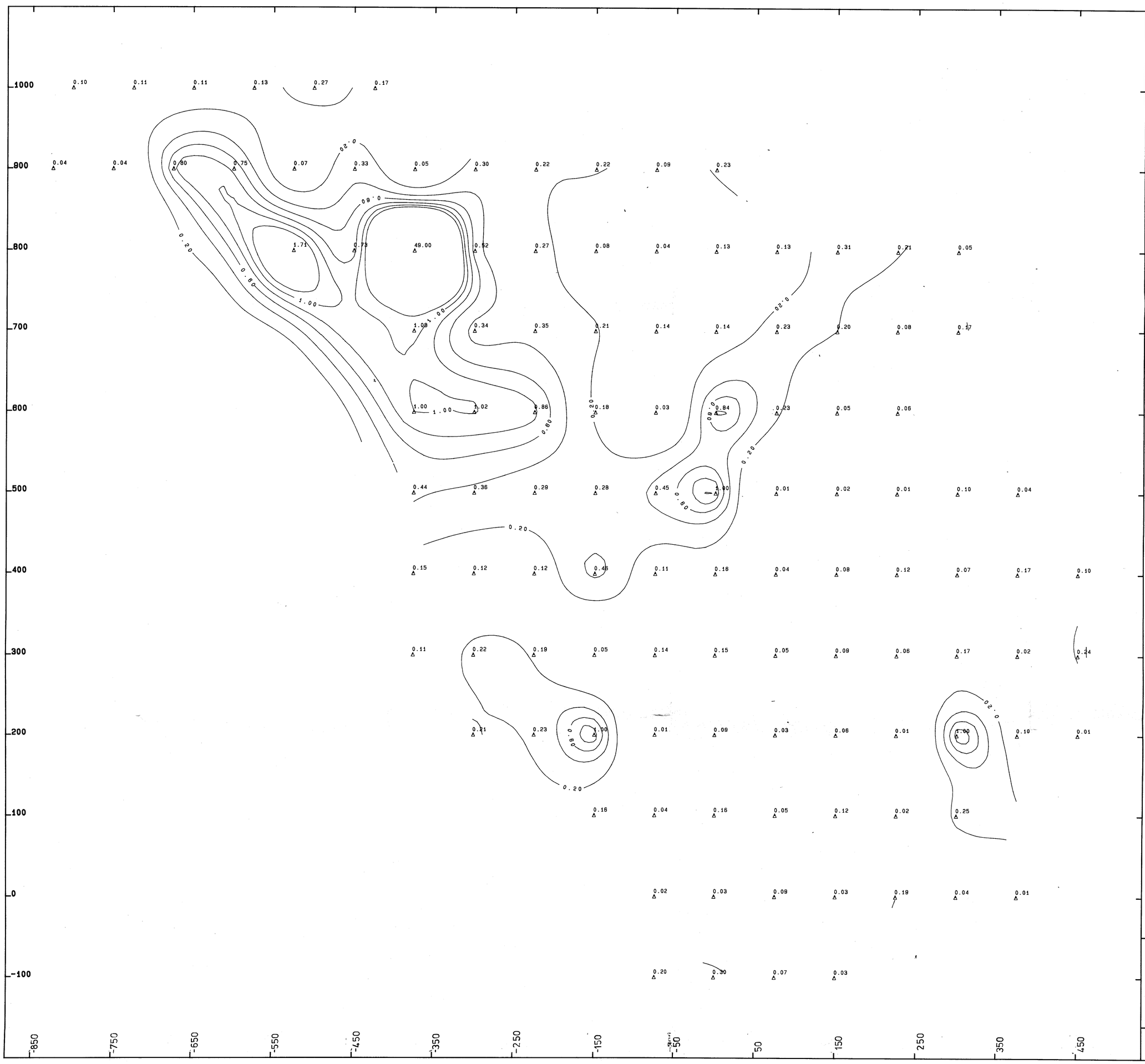
SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Zn
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-43

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

50 0 50 100 150 m

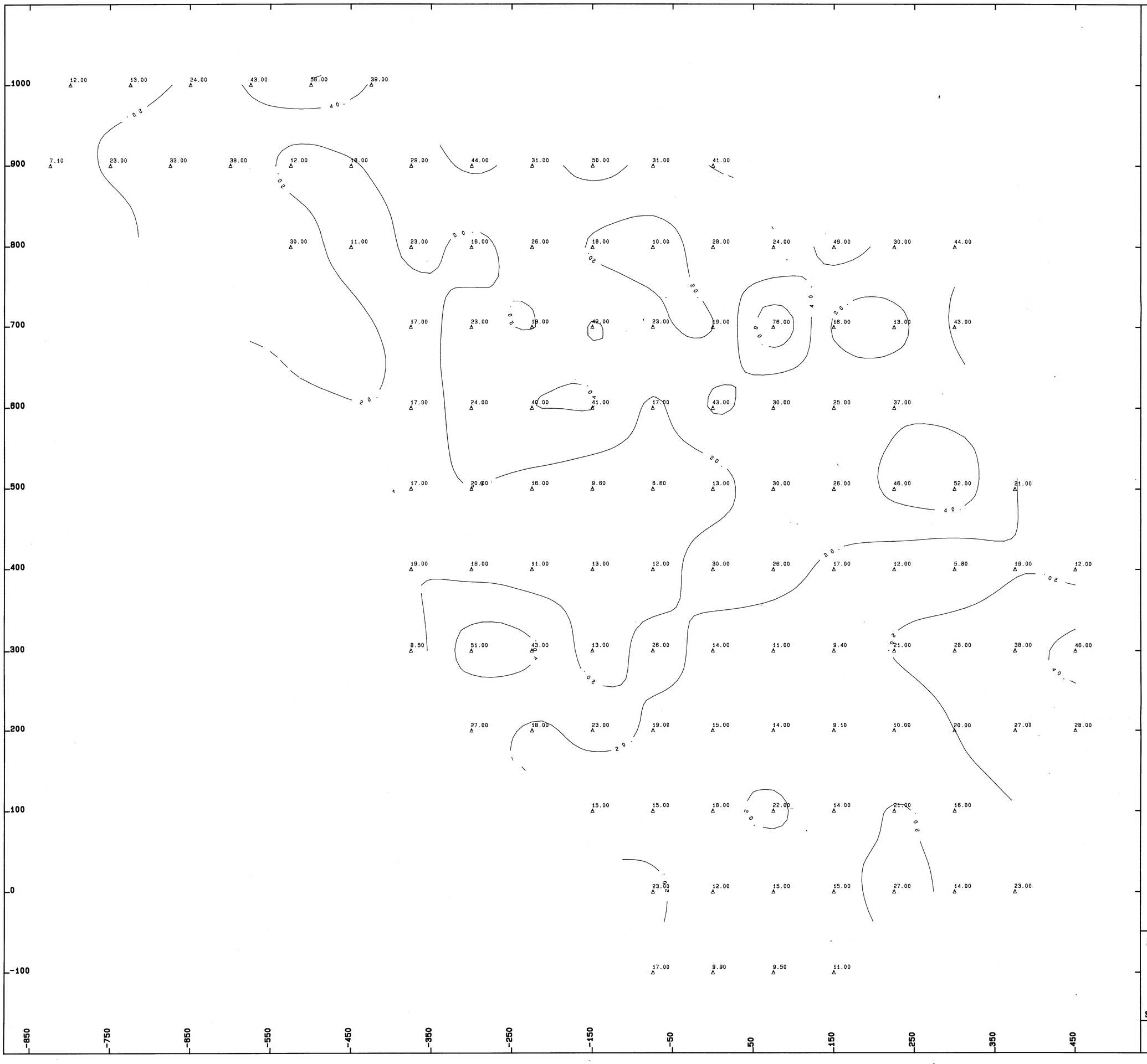
SCALE 1:2500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Ag
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-44

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS

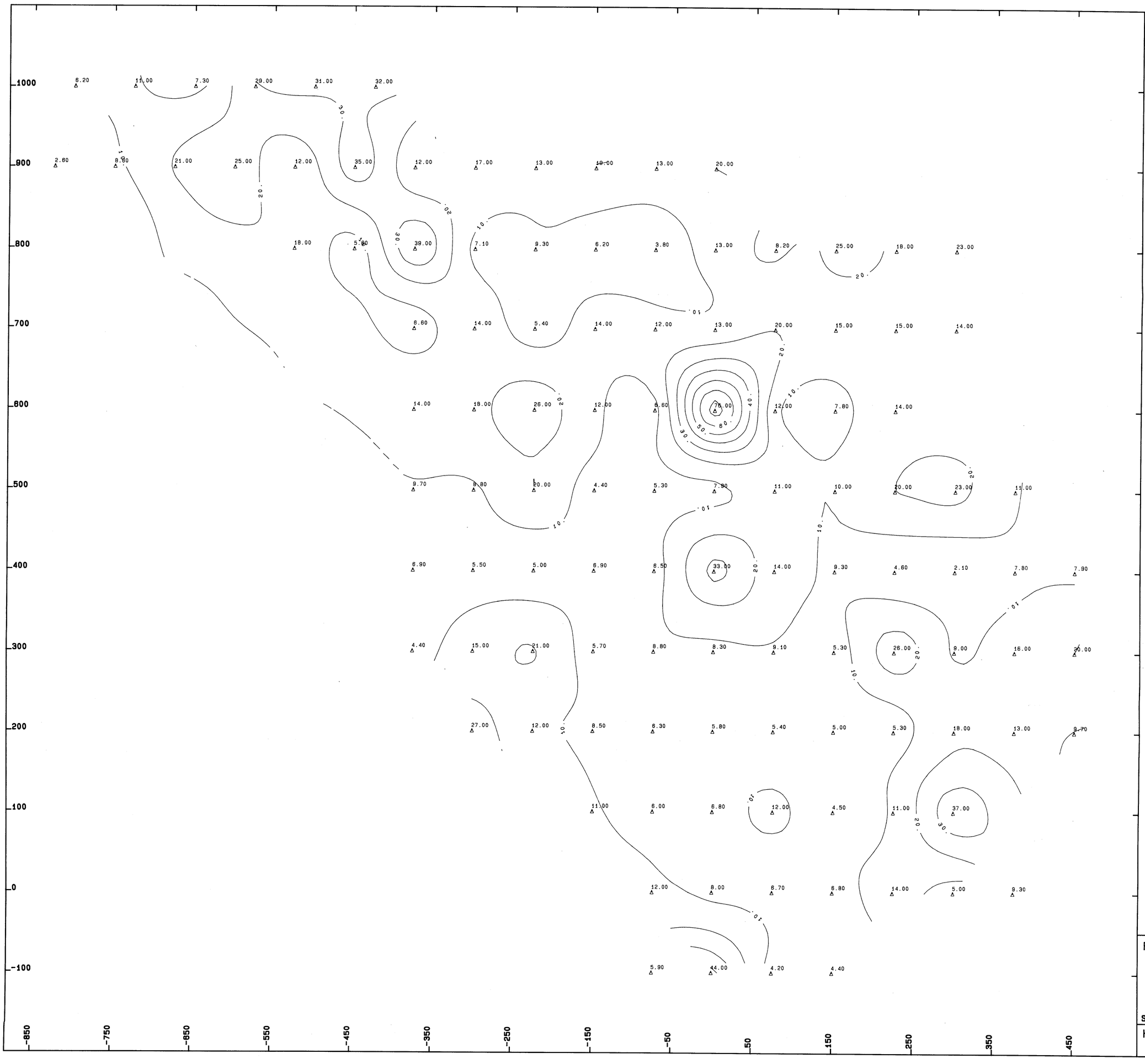


FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Ni
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1: 2500 FIG. NO. 015-81-45

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



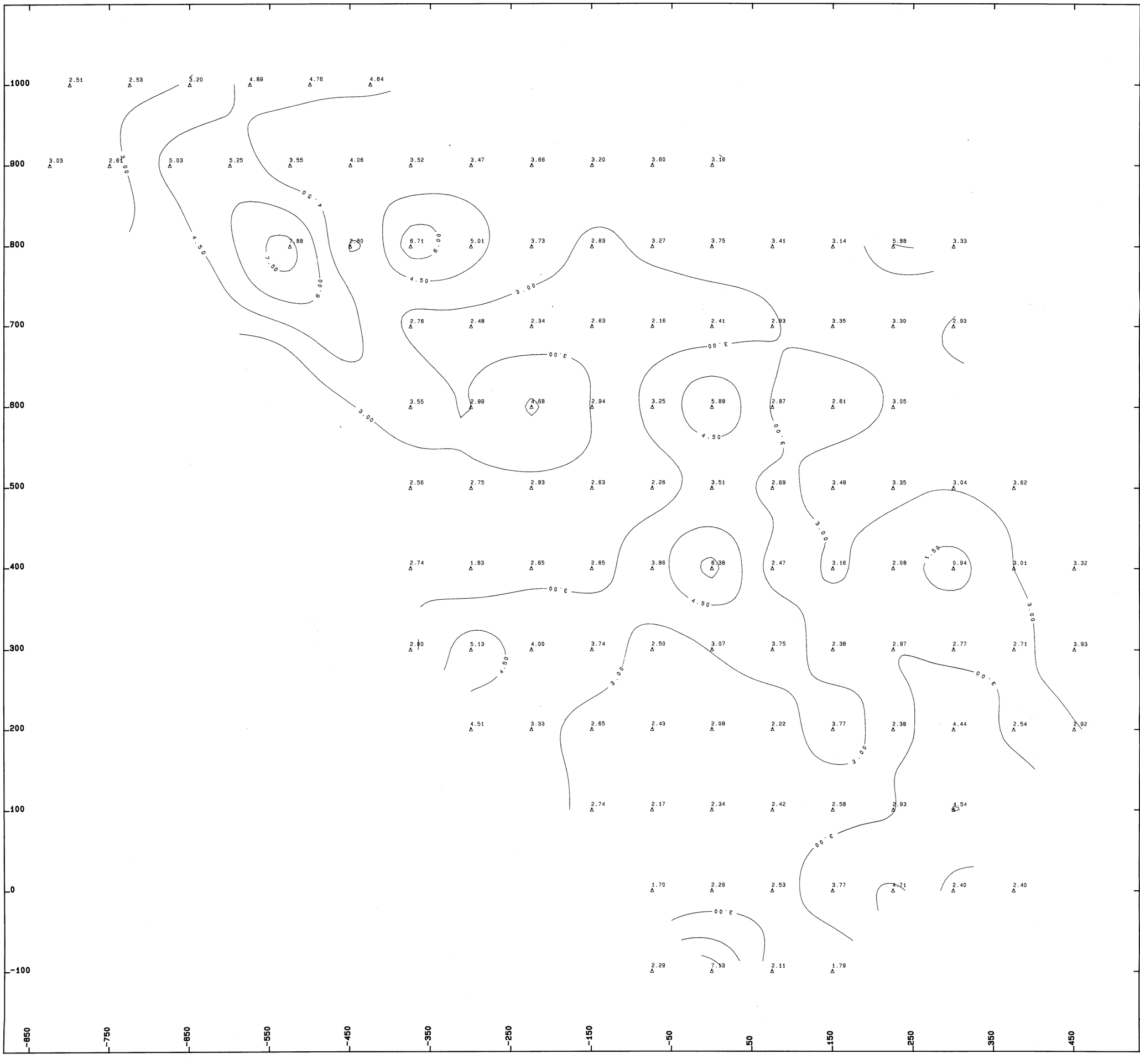
9978

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Co
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-46

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS

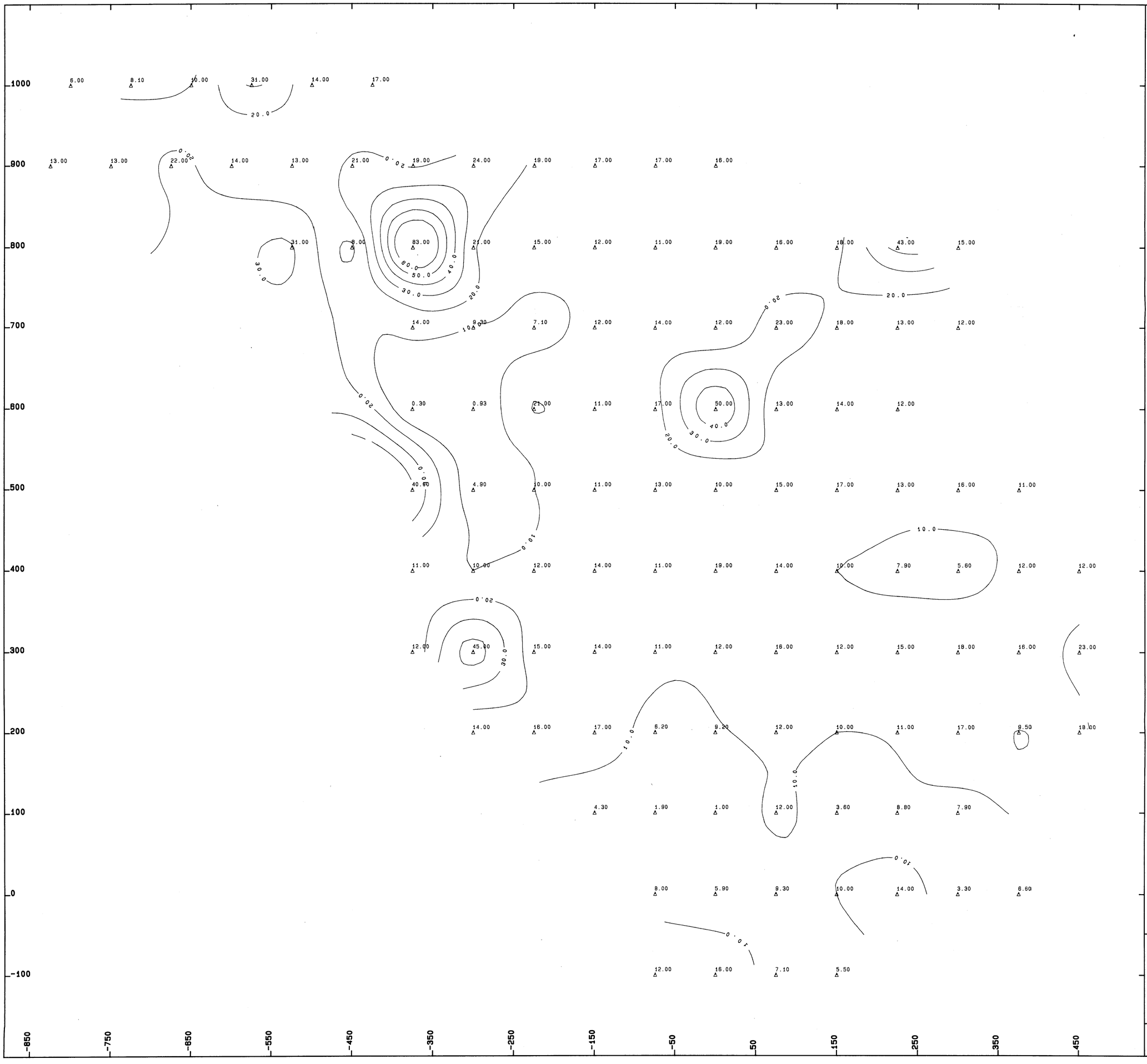


FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PERCENT Fe
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1: 2500 FIG. NO. 015-81-48

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



50 0 50 100 150 m

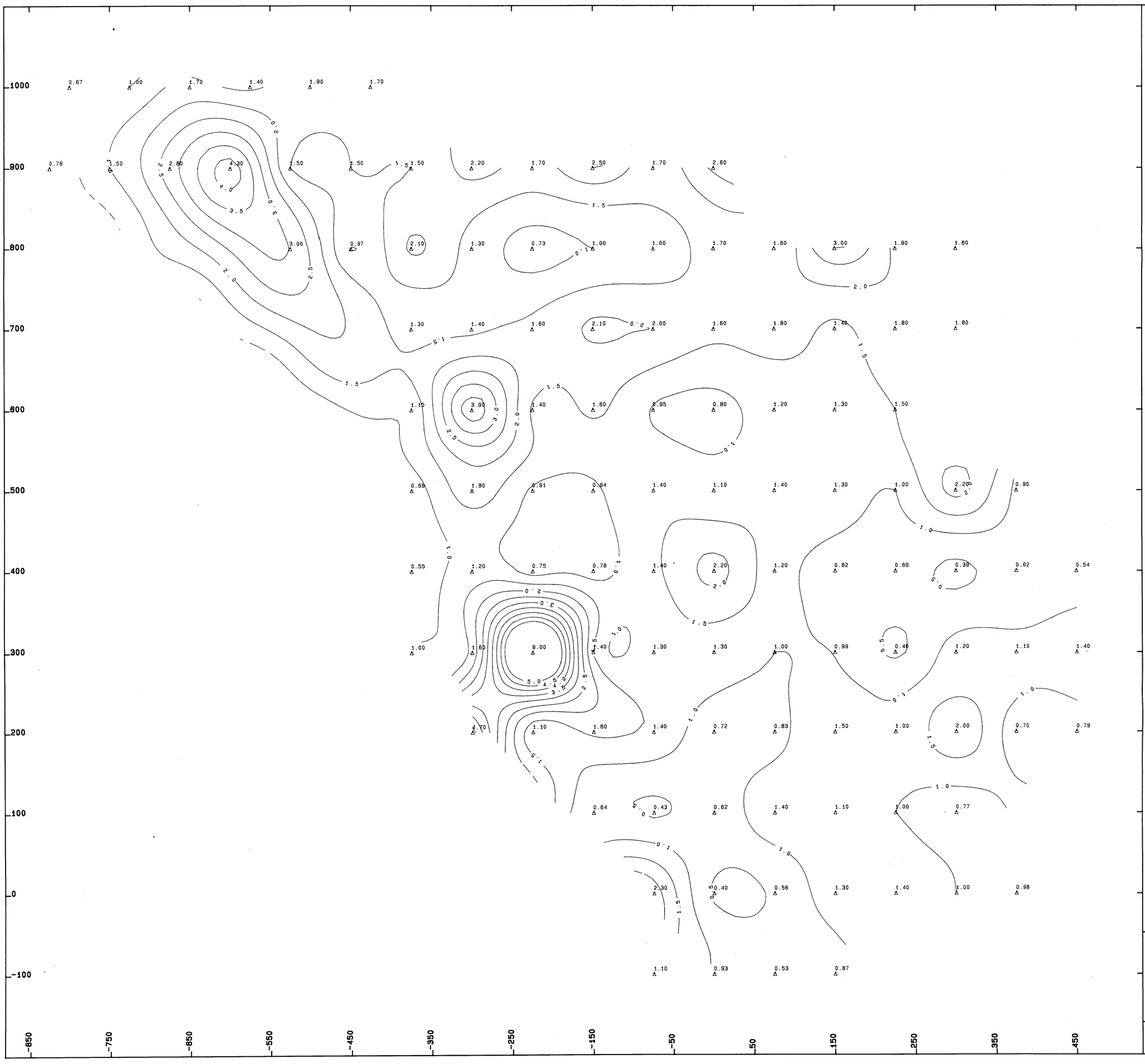
SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM As
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-49

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

50 0 50 100 150 m

SCALE: 1:2500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Th
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-51

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS

8 W 7 W 6 W 5 W 4 W 3 W 2 W 1 W B.L. 1 E 2 E 3 W 4 E 5 E

L 9+50 N
L 8+50 N
L 7+50 N
L 6+50 N
L 5+50 N
L 4+50 N
L 3+50 N
L 2+50 N
L1+50 N
L0+50 N
L0+50 S

N

V.L.F.-Stn. 23.4
Tilt Direction 120°

4S 3W — CLAIM LINE — MOE 7 — 4S 2W — 4S 1W

L E G E N D

V.L.F. Stn. 23.4 —o—o—o—
Magnetics ////////

50 0 50 100m.

SCALE : 1:2500

FALCONBRIDGE NICKEL MINES LTD.

PROPERTY: Maid of Erin

LOCATION: Rainy Hollow B.C.

TYPE OF MAP: Composit Geophysical Plan

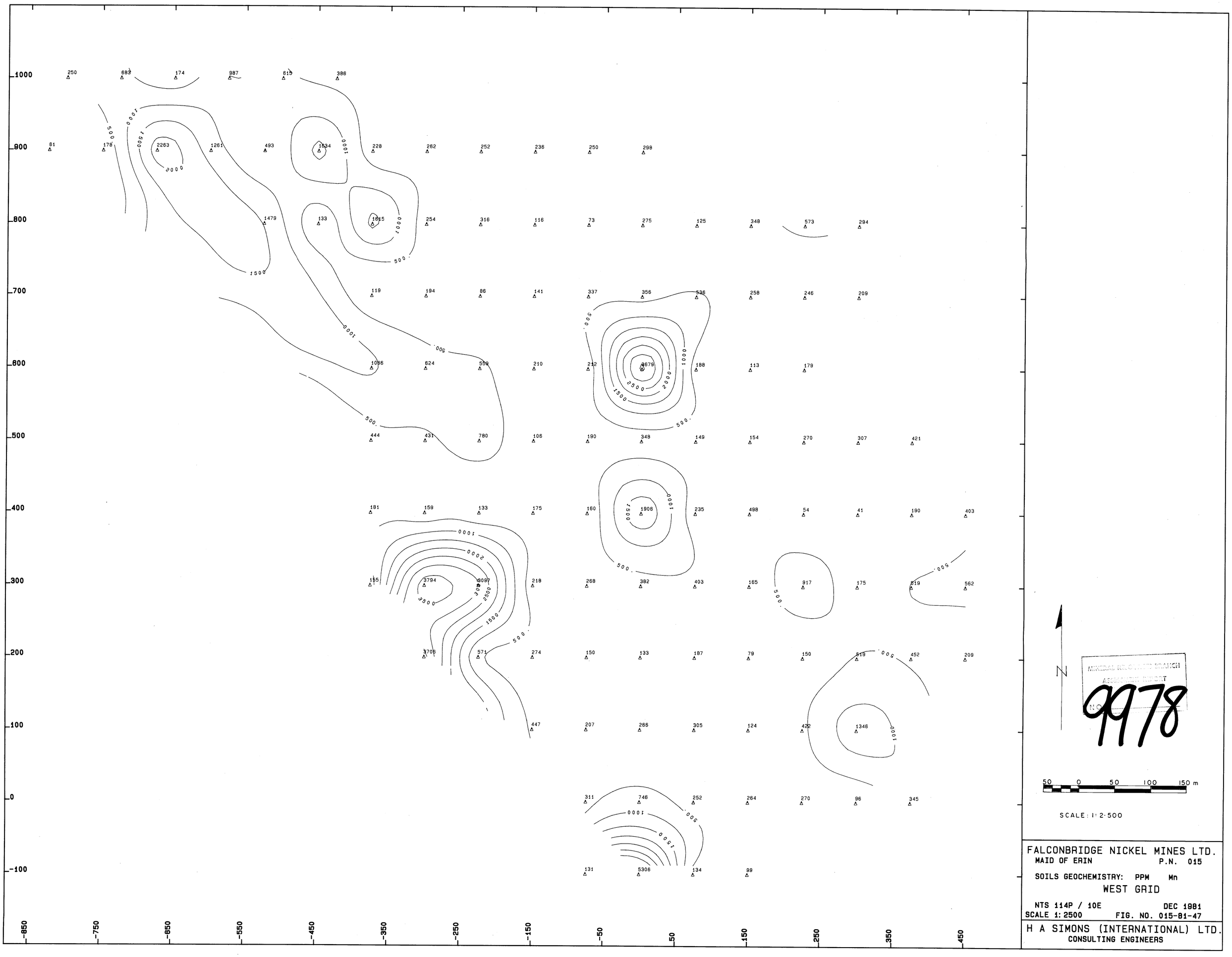
BASED ON: Fieldwork by S.P.

WORKING PLACE: West Grid

DATE OF WORK: Sept. 1981

DRAWN BY: S. P. Sept. 1981

N.T.S. NO.: 114-P-10E FIG. NO.: 015-81-80



N

50 0 50 100 150 m

SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Mn
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-47

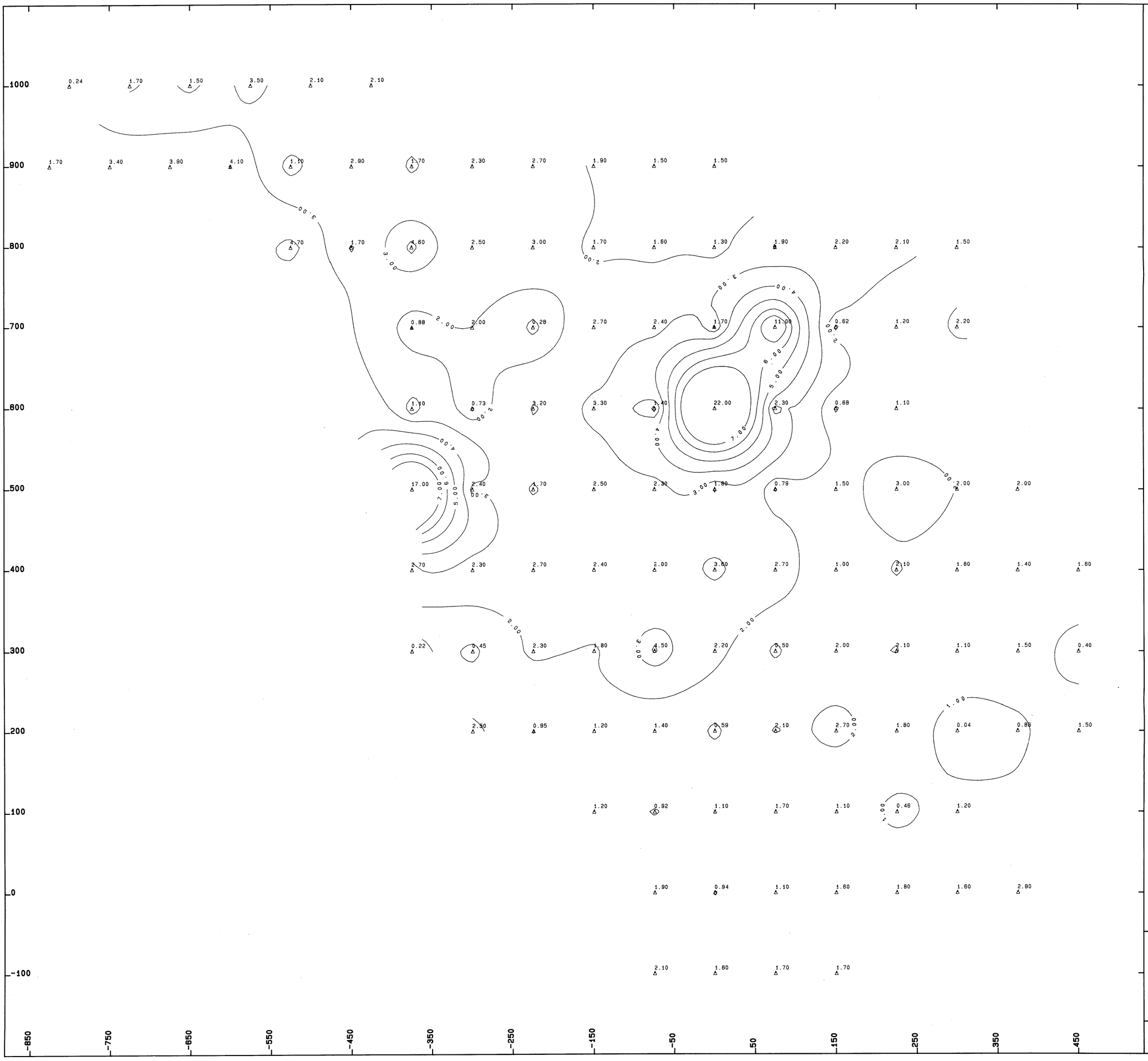
H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Sb
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1: 2500 FIG. NO. 015-81-53

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS

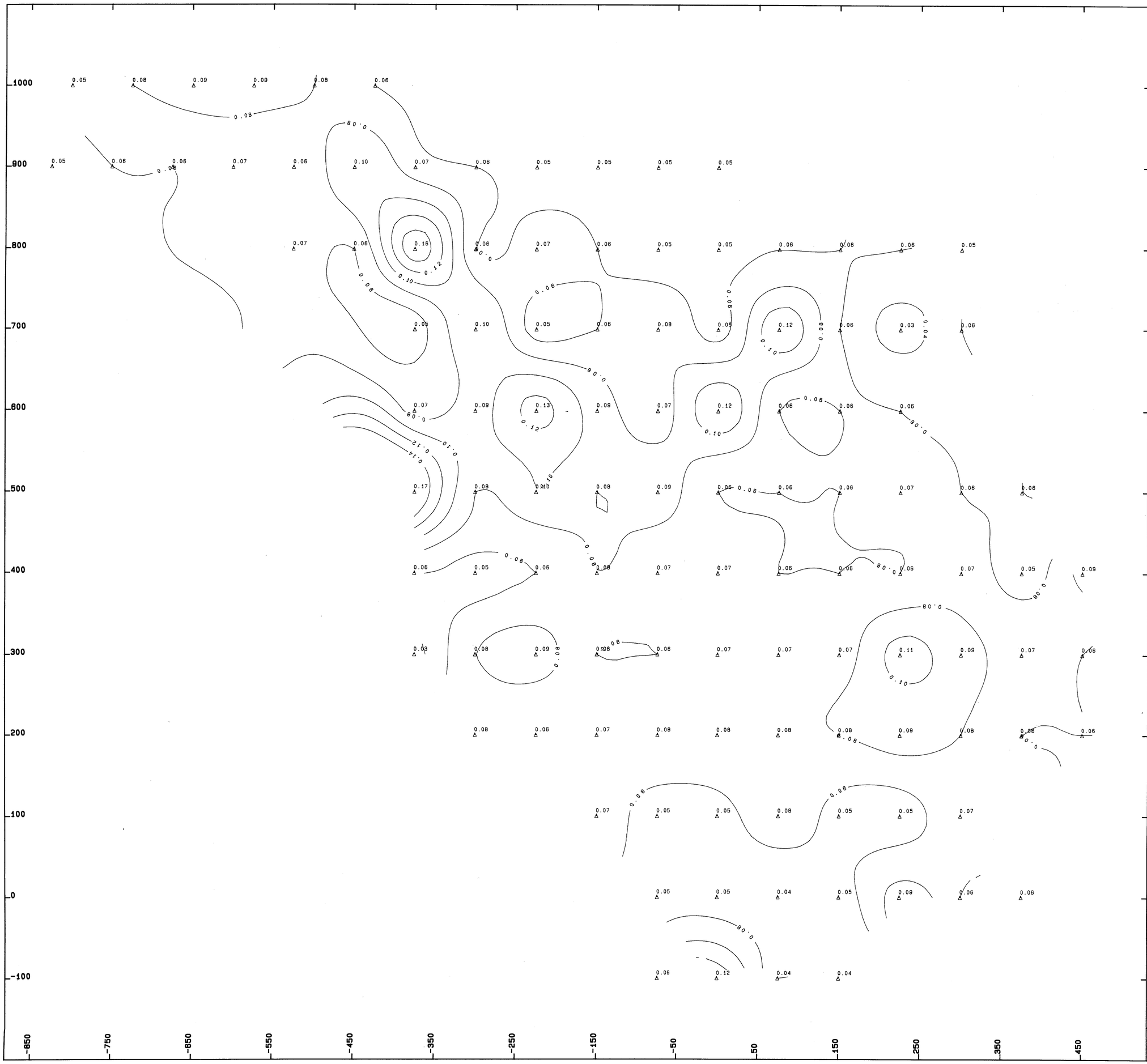


FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM U
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-50

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

50 0 50 100 150 m

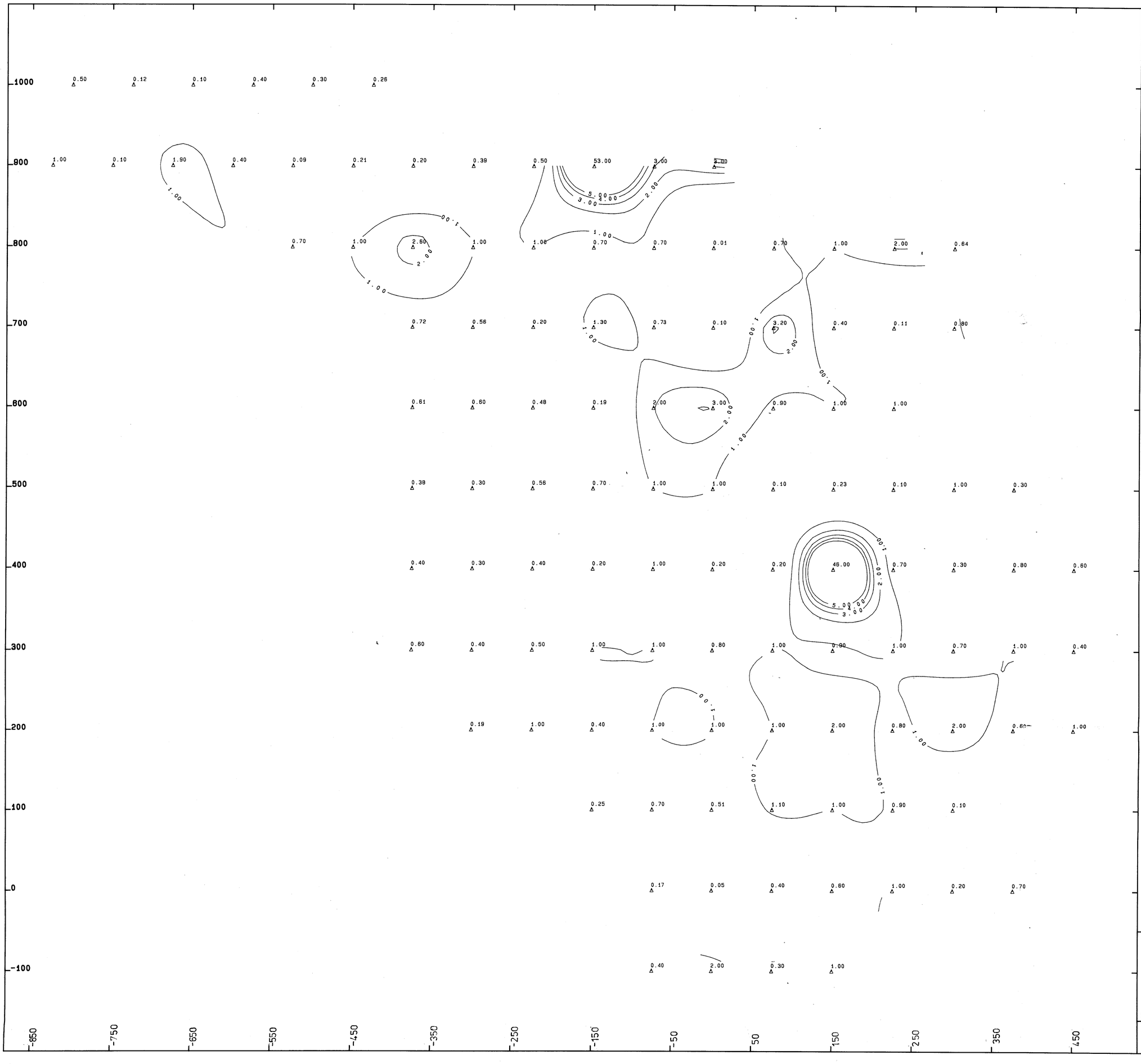
SCALE: 1:2·500

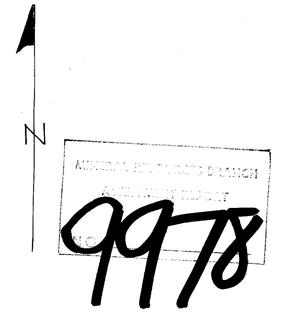
FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PERCENT P
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-57

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS





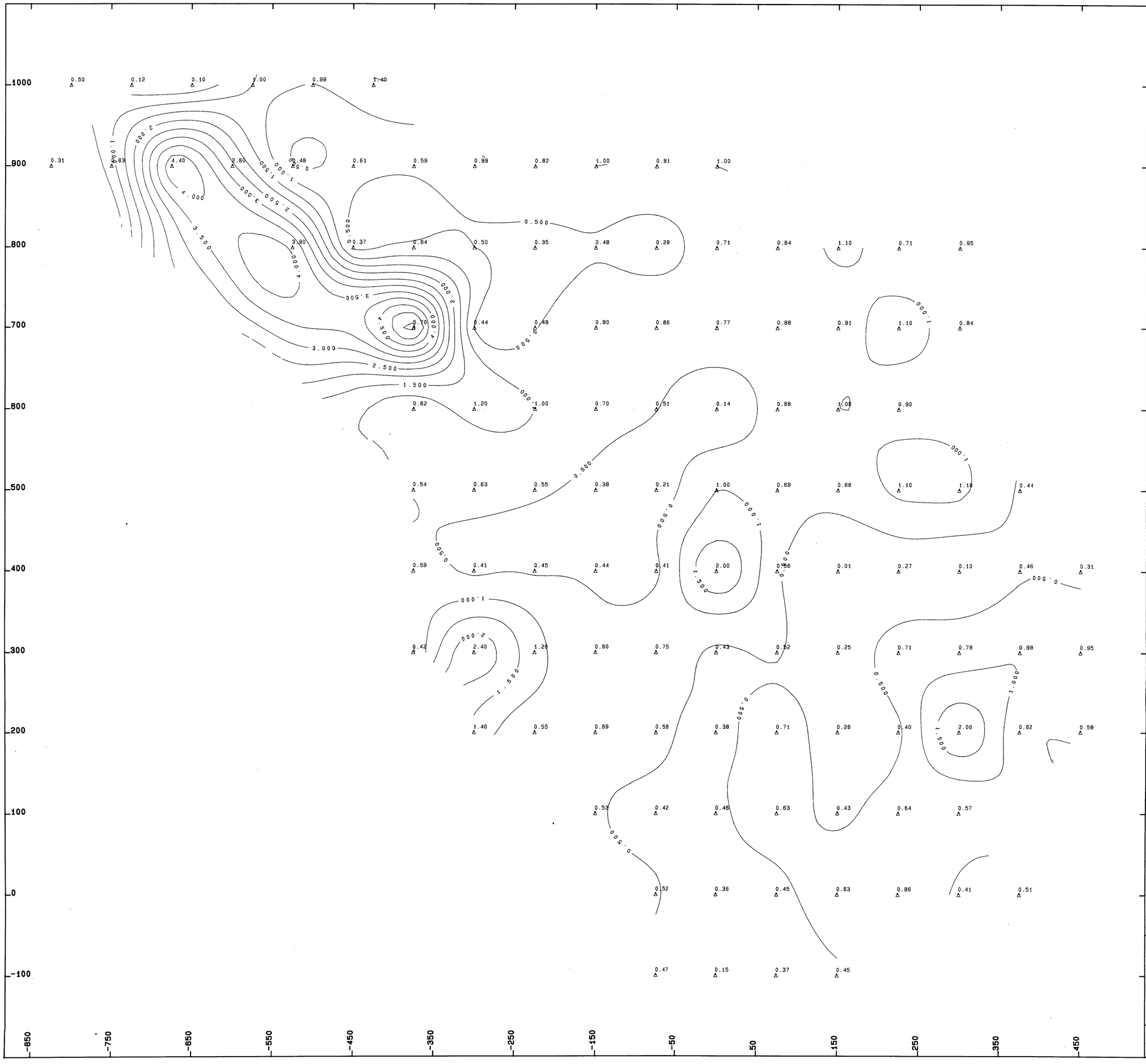
9978

50 0 50 100 150 m

SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015
SOILS GEOCHEMISTRY: PPM In
WEST GRID
NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-59

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS

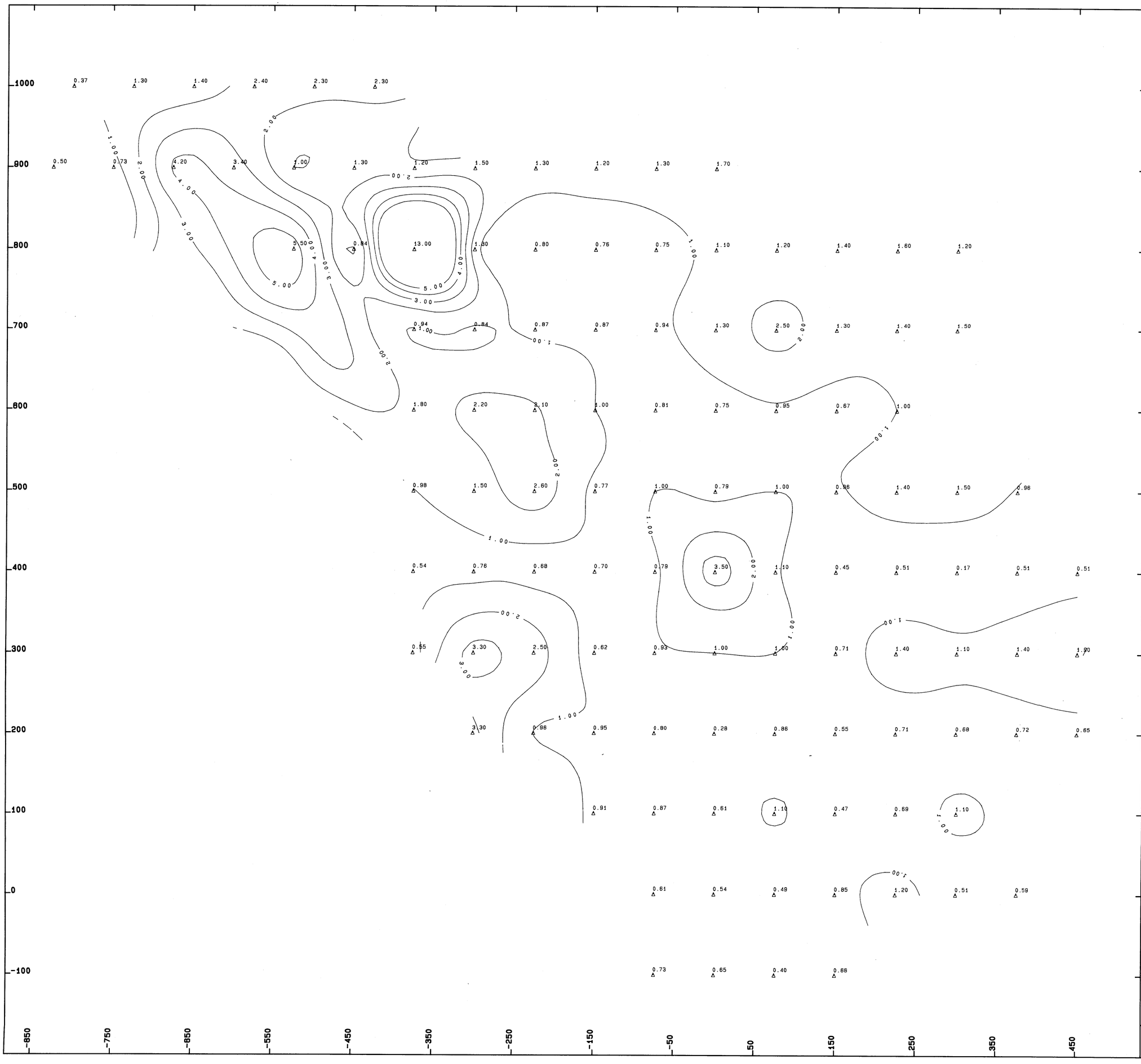


FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PERCENT Mg
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-60

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



50 0 50 100 150 m

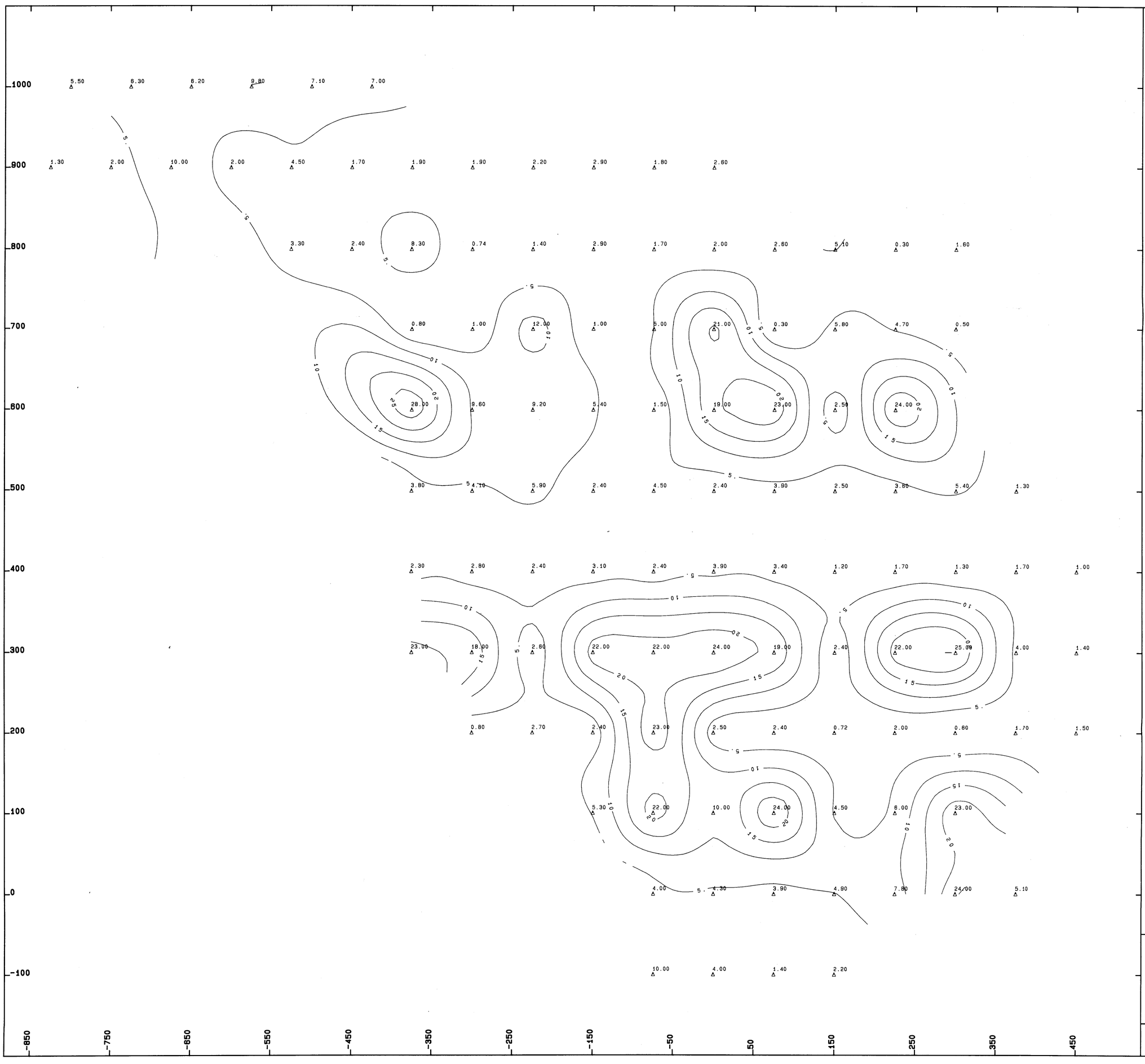
SCALE: 1: 2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Cd
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1: 2500 FIG. NO. 015-81-52

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

9978

50 0 50 100 150 m

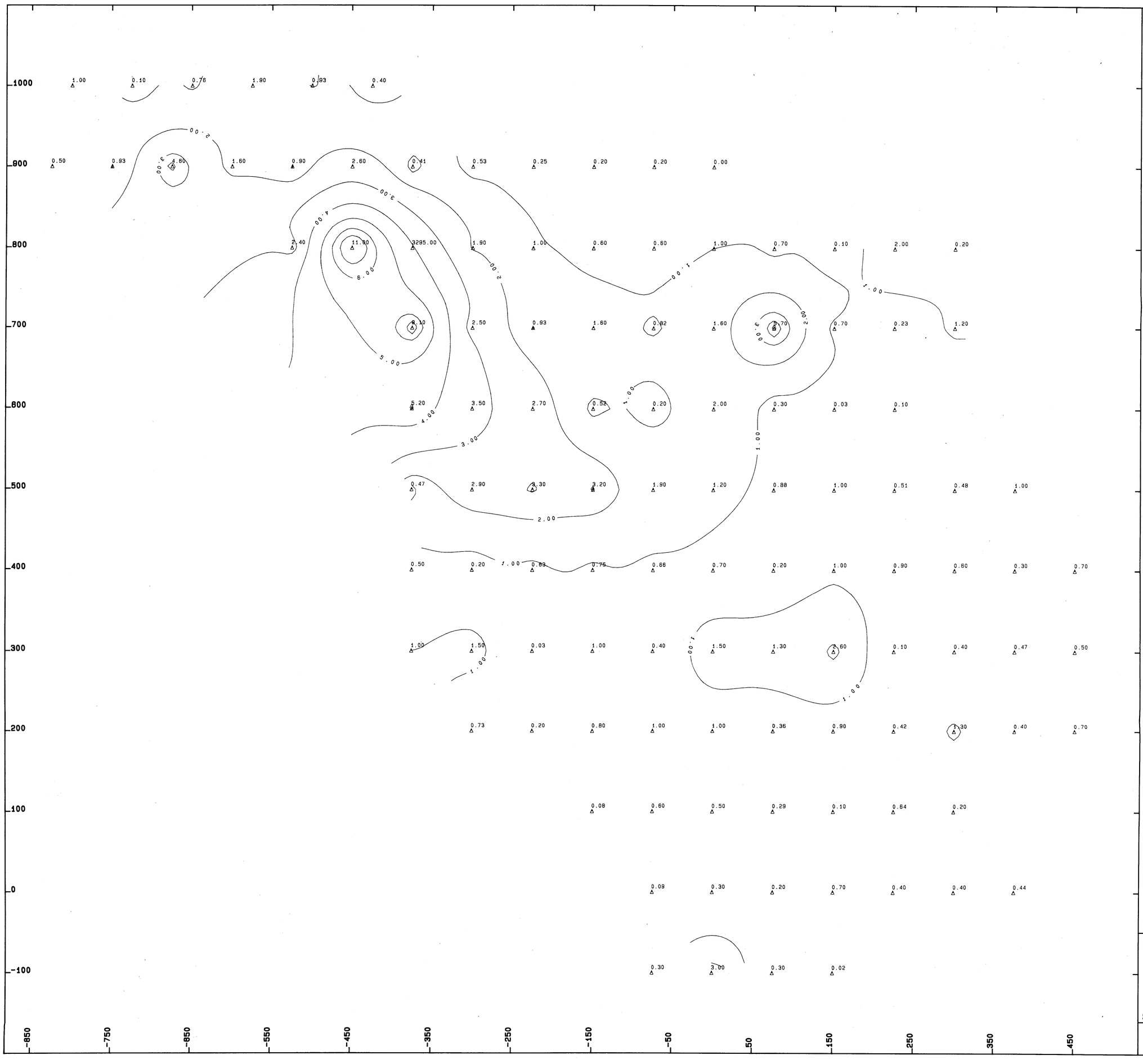
SCALE: 1:2500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM B
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-63

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



50 0 50 100 150m

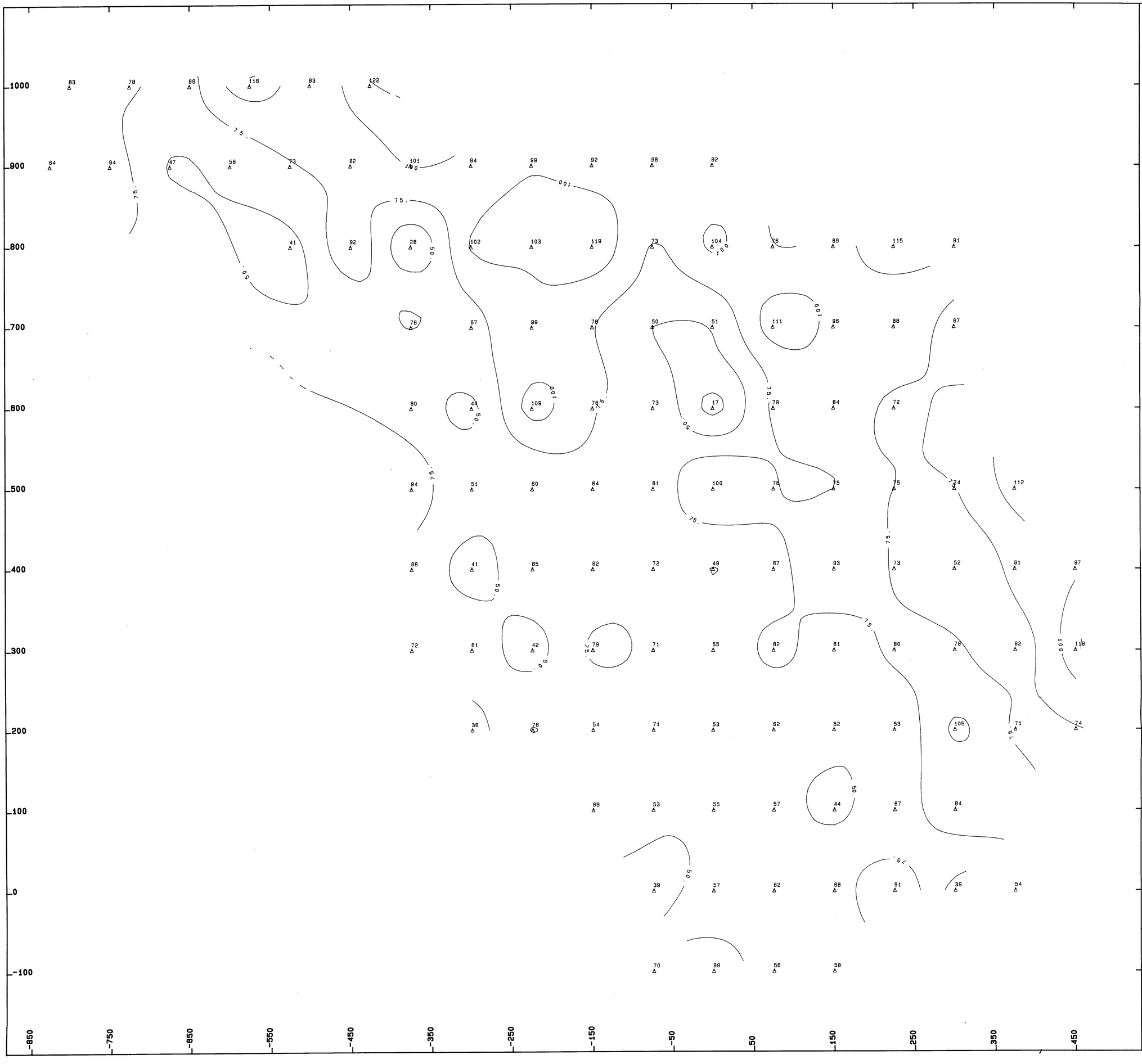
SCALE: 1:2500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Bi
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-54

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



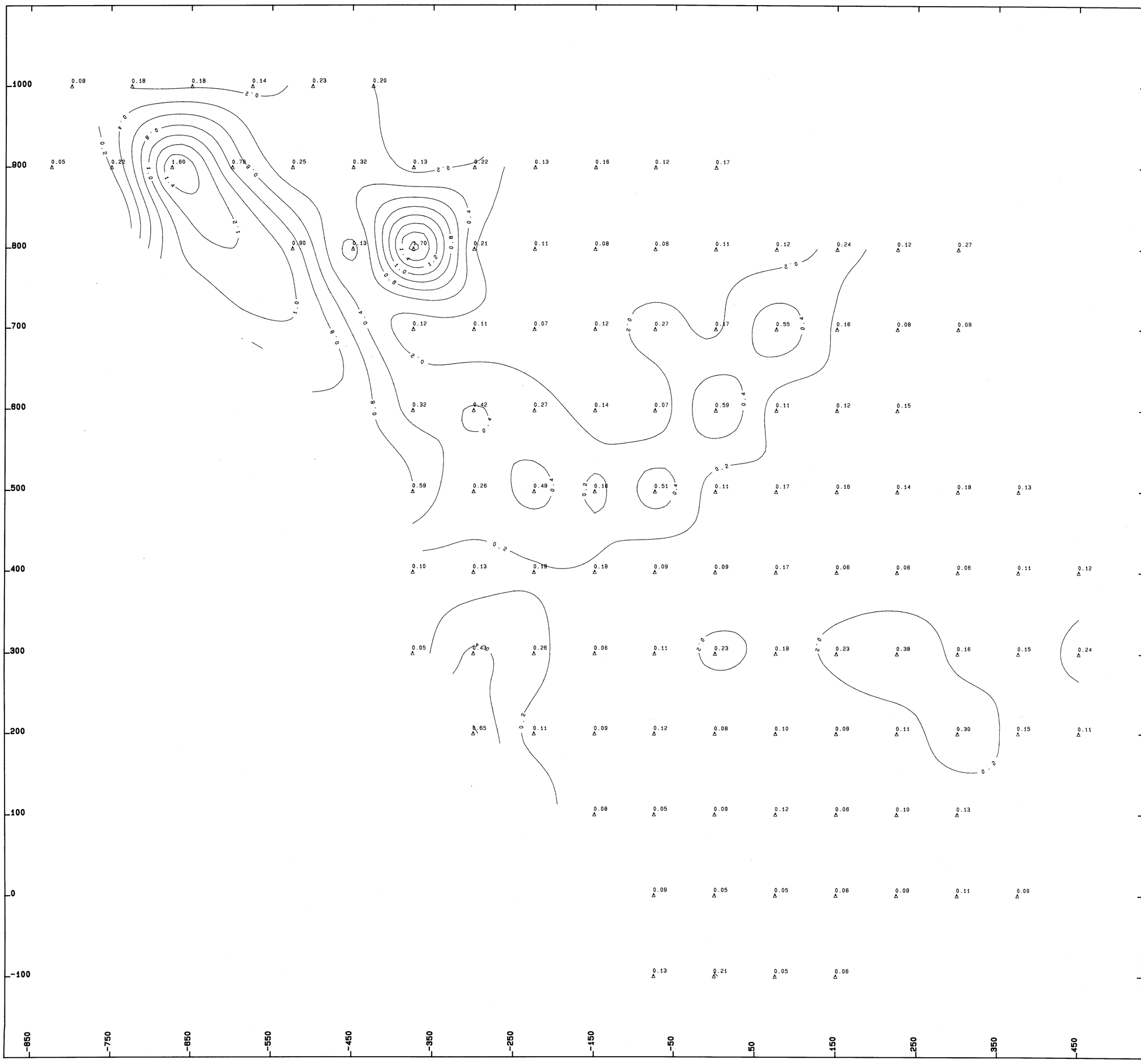
9978

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM V
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-55

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

50 0 50 100 150 m

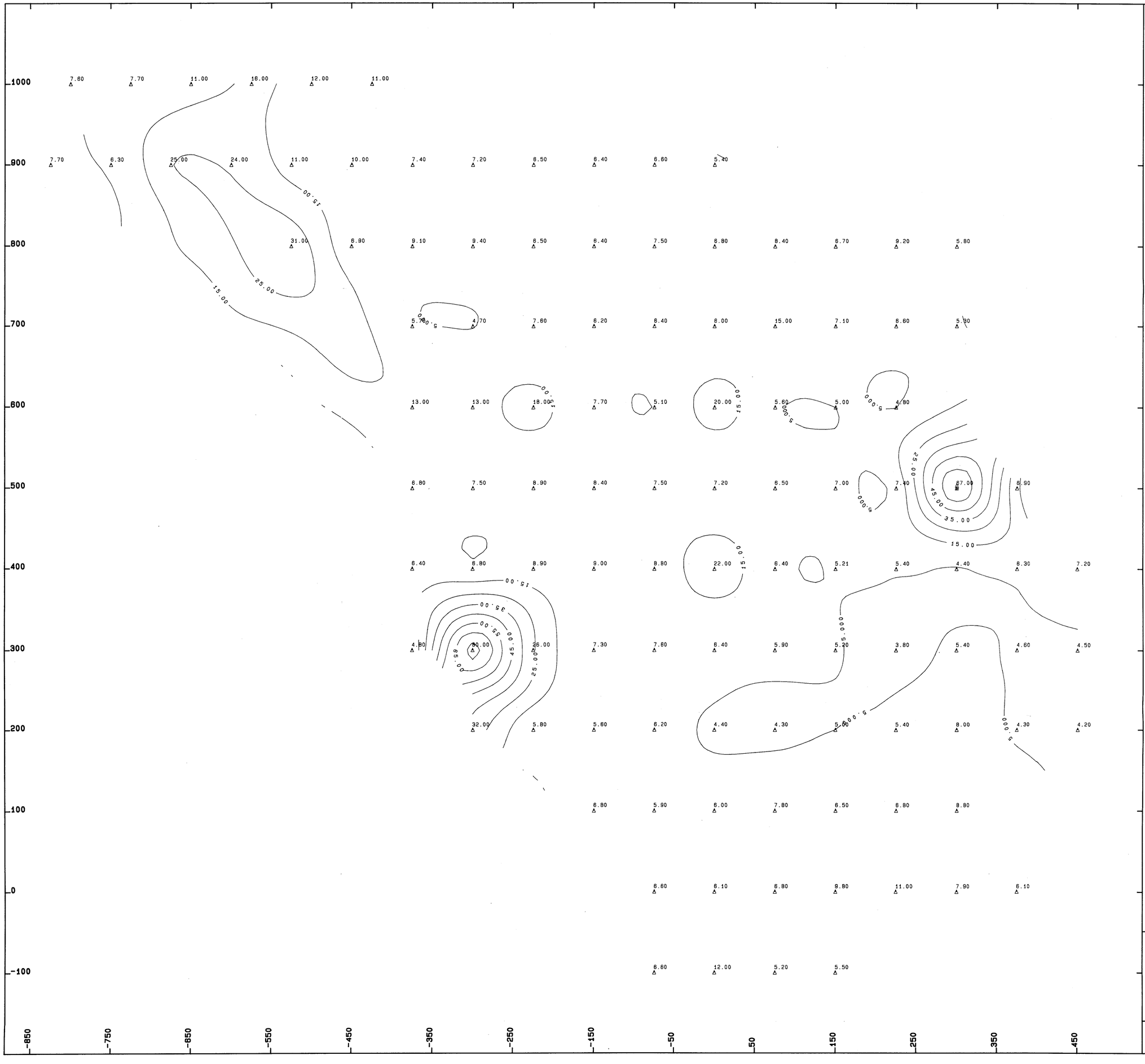
SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PERCENT Ca
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-56

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



9978

50 0 50 100 150 m

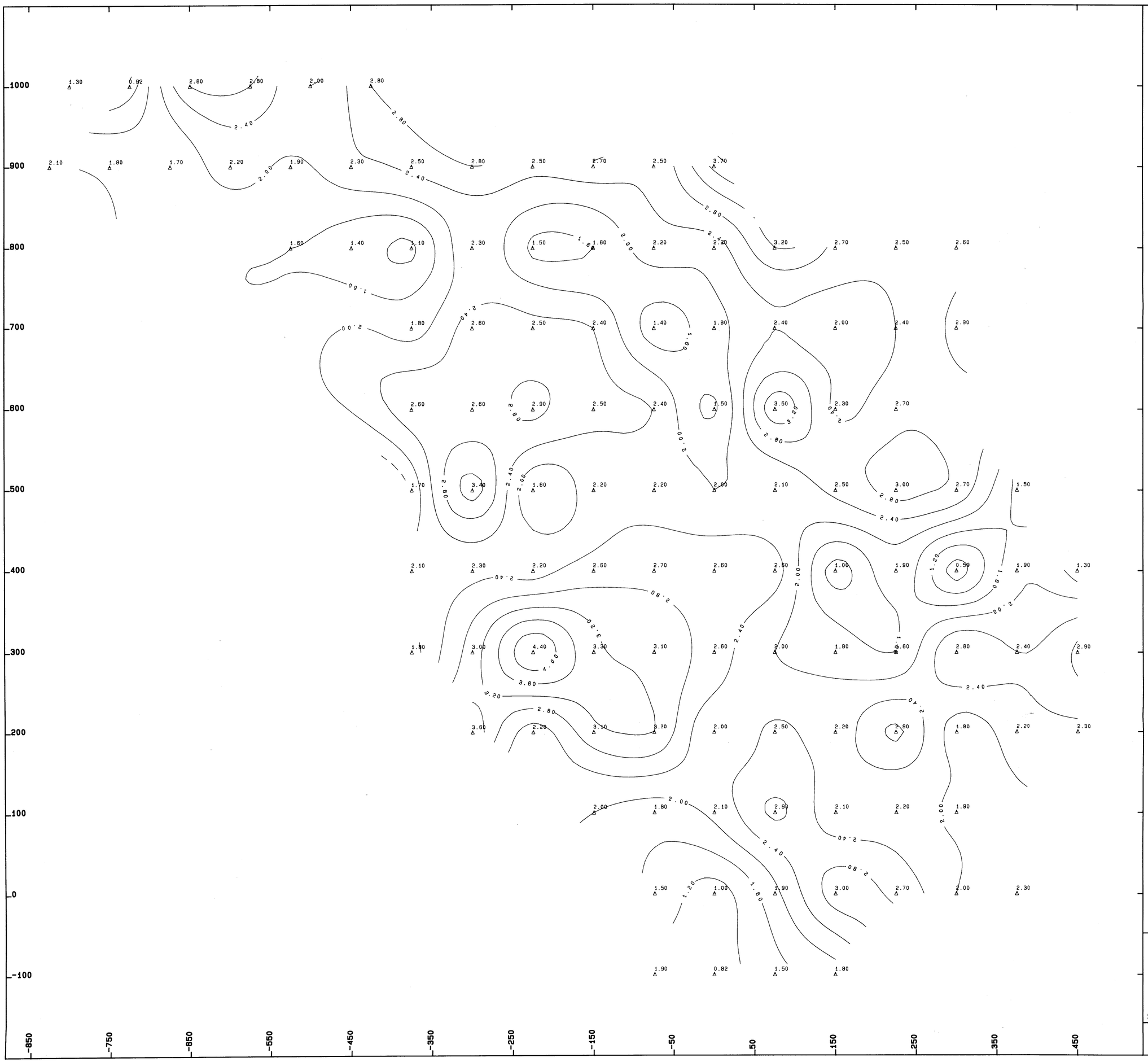
SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM La
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-58

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

9978

50 0 50 100 150 m

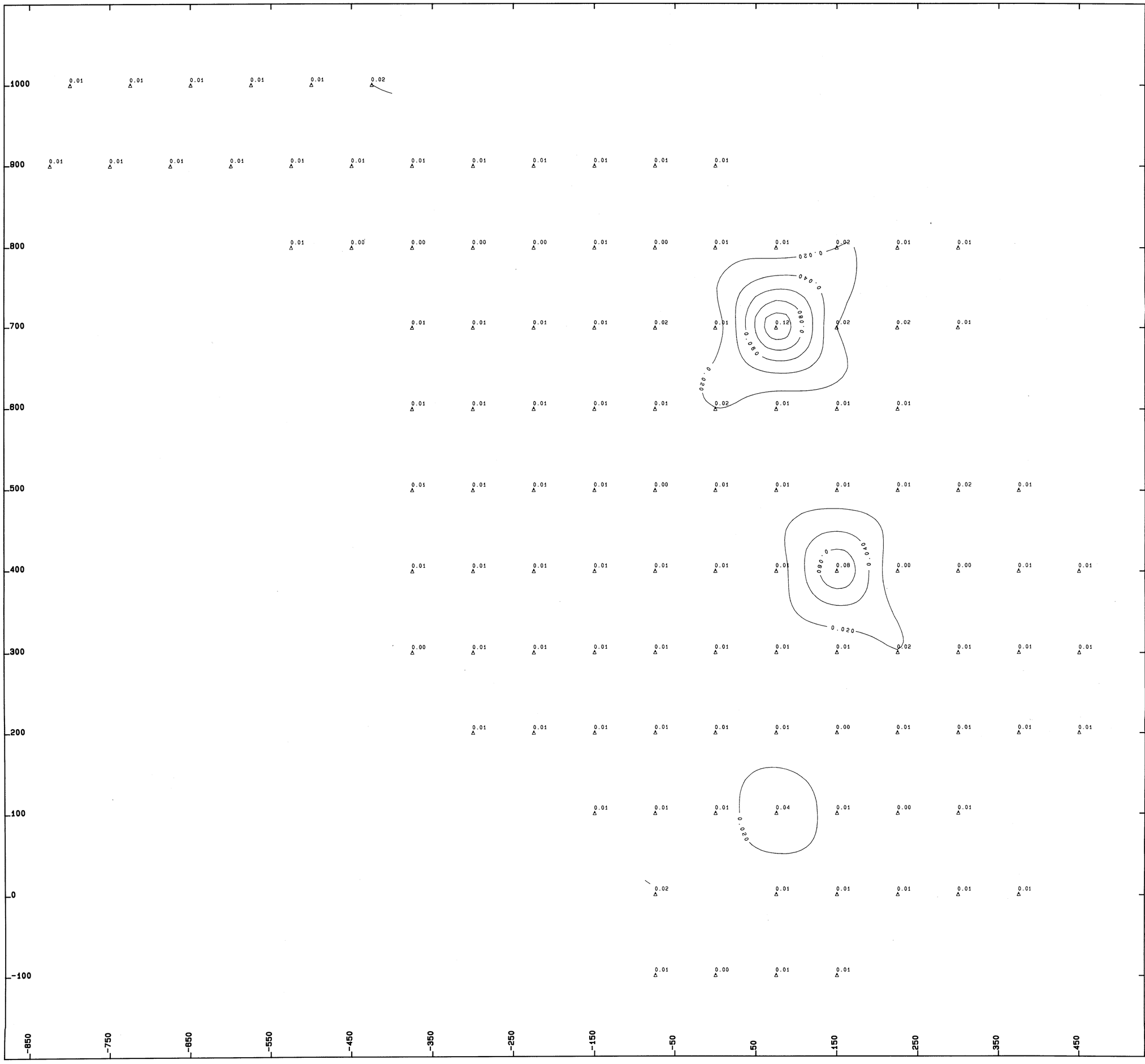
SCALE: 1:2,500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PERCENT Al
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-64

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

9978

50 0 50 100 150 m

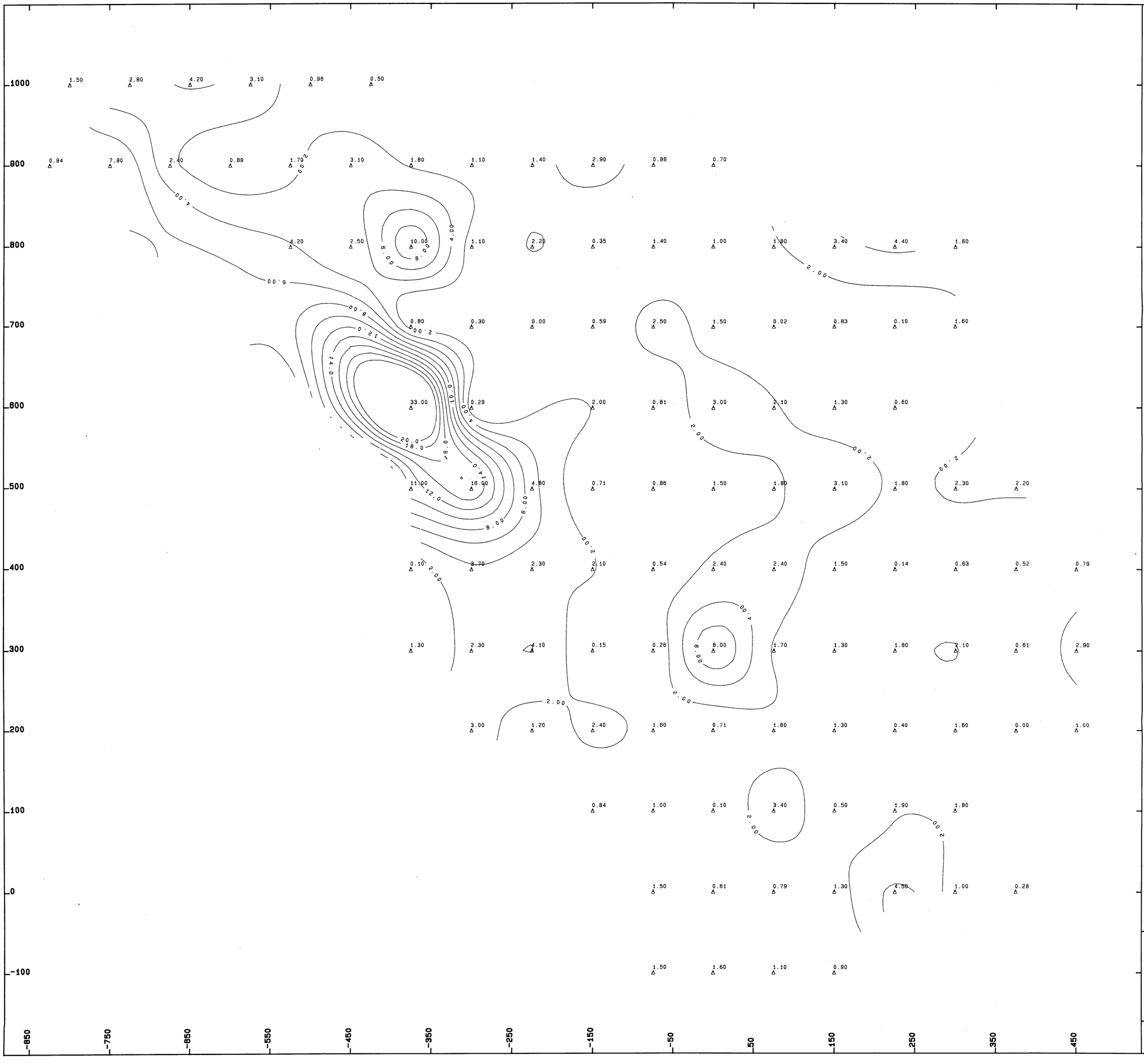
SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PERCENT Ba
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-61

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

9978

50 0 50 100 150 m

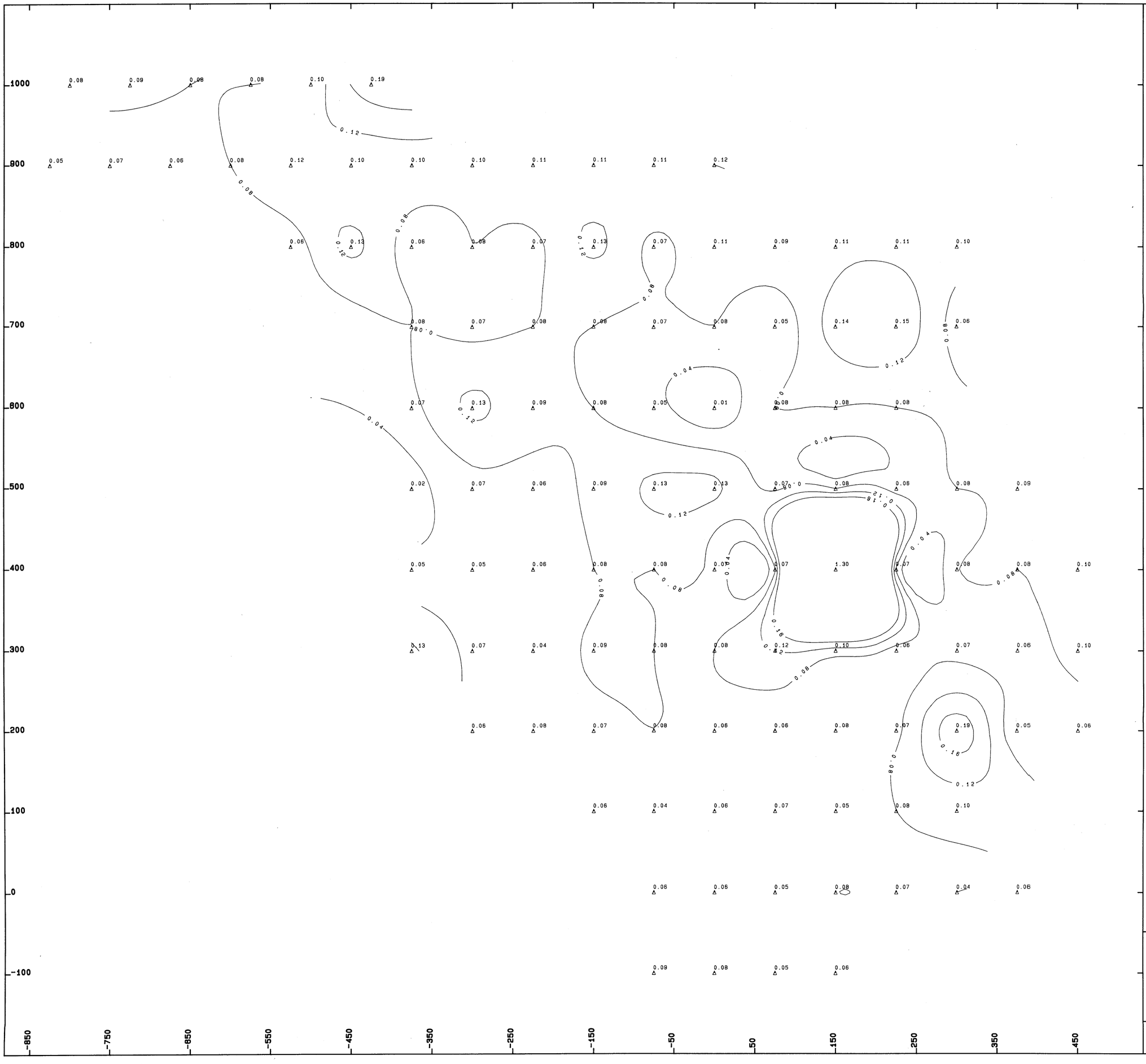
SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PERCENT W
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-85

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS



N

9978

50 0 50 100 150 m

SCALE: 1:2·500

FALCONBRIDGE NICKEL MINES LTD.
MAID OF ERIN P.N. 015

SOILS GEOCHEMISTRY: PPM Ti
WEST GRID

NTS 114P / 10E DEC 1981
SCALE 1:2500 FIG. NO. 015-81-62

H A SIMONS (INTERNATIONAL) LTD.
CONSULTING ENGINEERS