

85-471-14189

PART 2: VOLUME #2

APPENDICES

Windy Grid
Helipad Grid
B.5. Grid
Window Grid
Sam's Adit
Mealticket

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,189

PART
2 OF 3

APPENDIX #2SHOWING DATA SHEET

Name: Windy Grid

Location: On North facing slope of the ridge between Ikeda Cove and Collison Bay, directly above eastern end of the Rose Pit.

Work Performed: 1:1000 geologic mapping, detailed soil geochemistry (10m spacing), VLF-Em.

Results: From follow up Au geochemistry, this area can be seen to encompass a zone of extremely high (to 20ppm) gold values in the soils near the Rose Pit as well as elevated Au values to the south, east and west of the main anomaly. In general, there is an north-south trend to the anomalies; interruptions in the trend as at line 0+50S and line 0+75S may be a function of elevation. (This area corresponds to the crest of the hill).

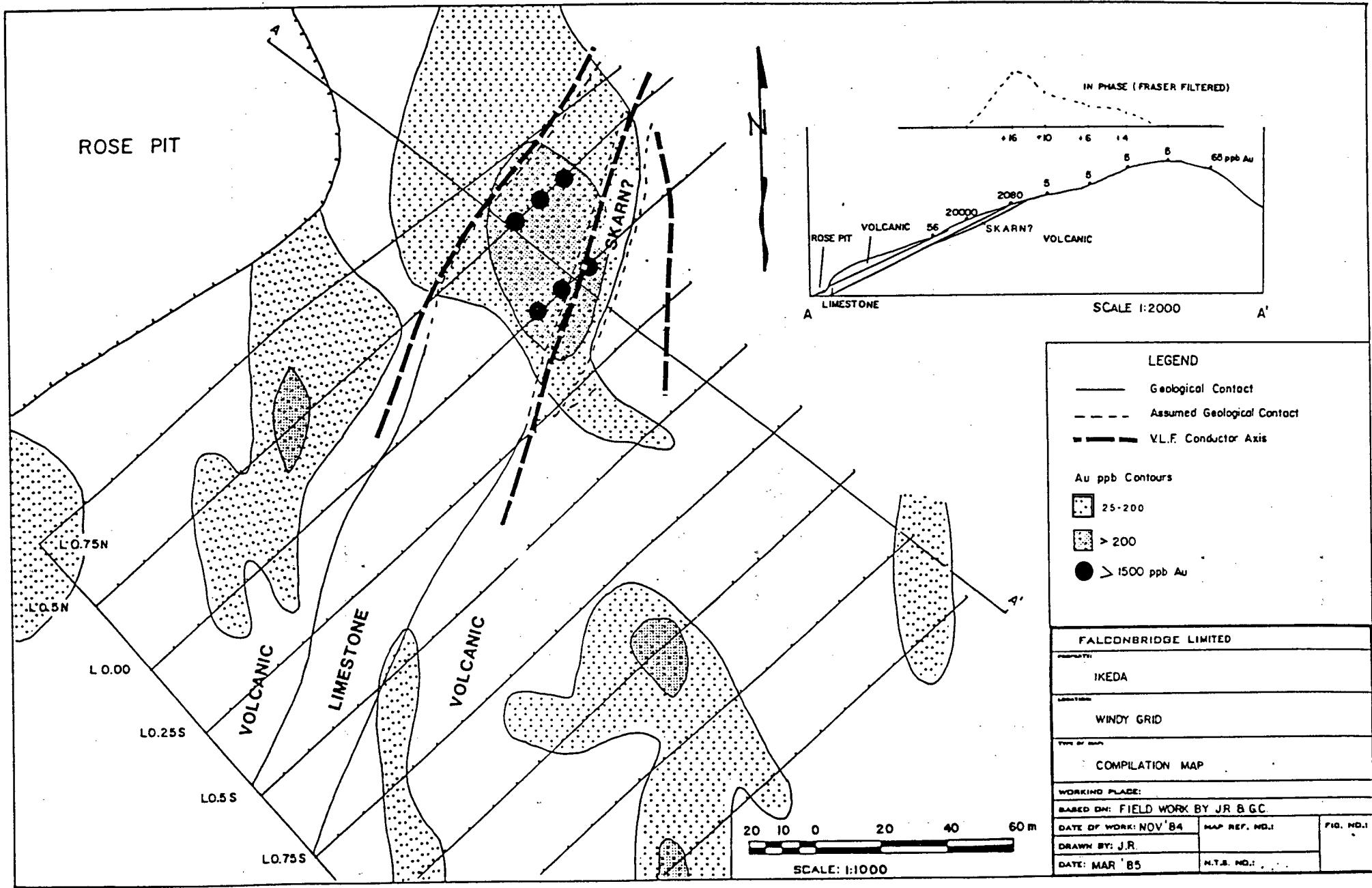
Geologic control of the area is limited; the majority of the area is overlain by a veneer (50-150cm?) of moss and debris. From available outcrop, the area is interpreted to be composed dominantly of volcanic flows with interbedded limestone units. Outcroppings of skarn were not encountered; the rocks generally display low grade alteration or in the case of the limestones, recrystallization. Observed attitudes of units are ENE/WSW and dipping gently to mildly north. Mineralization consists of sparse disseminated pyrite.

VLF-EM (in phase) data outlines a moderate conductor over the high Au geochemical anomaly. The VLF-EM anomaly extends from the Rose Pit suggesting a close relationship with the magnetite skarn. The anomaly is open towards the north and east.

Because of the trend of the soil geochemistry anomalies, the indicated gold mineralization is interpreted to be emanating from an early generation of fractures which formed as a result of the intrusion of the Rose Pit diorite plug (exploded approximately 200m to the northwest in the Rose Pit).

Recommendations:

Drilling of 2 short (100m) angled drill holes, main anomaly on the grid, should be drilled into the zone (refer to attached cross-section). Depending upon the results of this drilling, a second stage drill program to test continuity to the south may be implemented.



APPENDIX #3SHOWING DATA SHEET

Name:

Helipad Showing

Location:

On south facing slope of ridge between Collison Bay and Ikeda Cove approximately 1200 metres to the west of the head of Collison Bay between 410m (1350 ft) and 290m (950 ft) elevation.

Work Performed:

1:1000 scale geologic mapping, detailed soil geochemistry (10m spacing), VLF-EM, detailed magnetometer gradiometry, trenching.

Results:

Detailed work initiated as a result of high gold soil geochemistry anomalies and the location of a number of massive/semi-massive (py, po, cp) sulphide outcroppings.

Detailed soil geochemistry anomalies (Aw) indicate a strong NNW/SSE gold distribution. Extreme stretching may reflect downslope dispersion. Available outcrop mapping indicates the anomalies are superimposed on and adjacent to skarn/volcanic contacts. Trenching of one sulphide/skarn showing near top of grid uncovered variable garnet-pyroxene-amphibole skarn displaying retrograde sulphide (cp-py) mineralization (as suggested by Meinert, 1984). Favourable assay results from trench indicate that this area warrants further work.

Geologically, the area displays complex skarn patterns. However, reconstruction of pre-intrusive lithologies indicate that the skarn has formed at or near the contact between the Kunga Formation and the Karmutsen Formation. The main core of interest is the area between 380m (1250 ft) elevation and 350m (1100 ft) elevation. Here, skarn may have formed in a laterally continuous ? series of limestone beds which dip shallowly into the hillside.

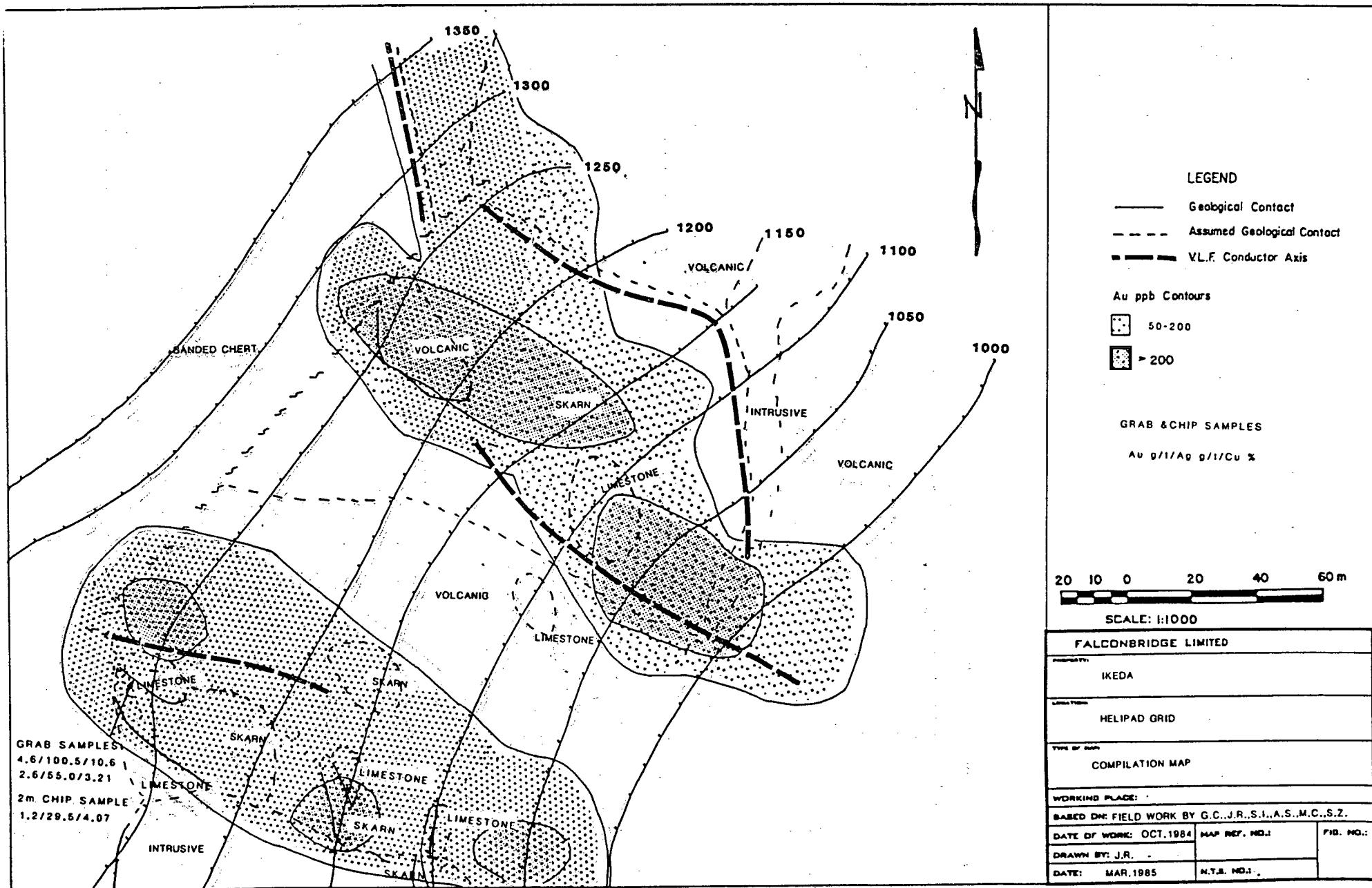
Results (con't):

Available magnetometry/gradiometry suggest 2 large lenses of magnetite within the grid area; these may represent the main conduits of metasomatic fluid movement. There is no evidence to suggest an association between magnetite and gold; there is, however, an indication that outside main magnetite zones, gold occurs in retrograde altered pyroxene amphibole skarn.

Recommendations:

As suggested by Meinert (1984), the Helipad showing should be drilled using 2 long drill holes (200-300m) to assess:

- 1) continuity of mineralization down-dip from the trench and 2). the subsurface geology of the Helipad for purposes of control.
The suggested pattern of drill holes is illustrated in the cross-section found in Appendix 1.



APPENDIX #4SHOWING DATA SHEET

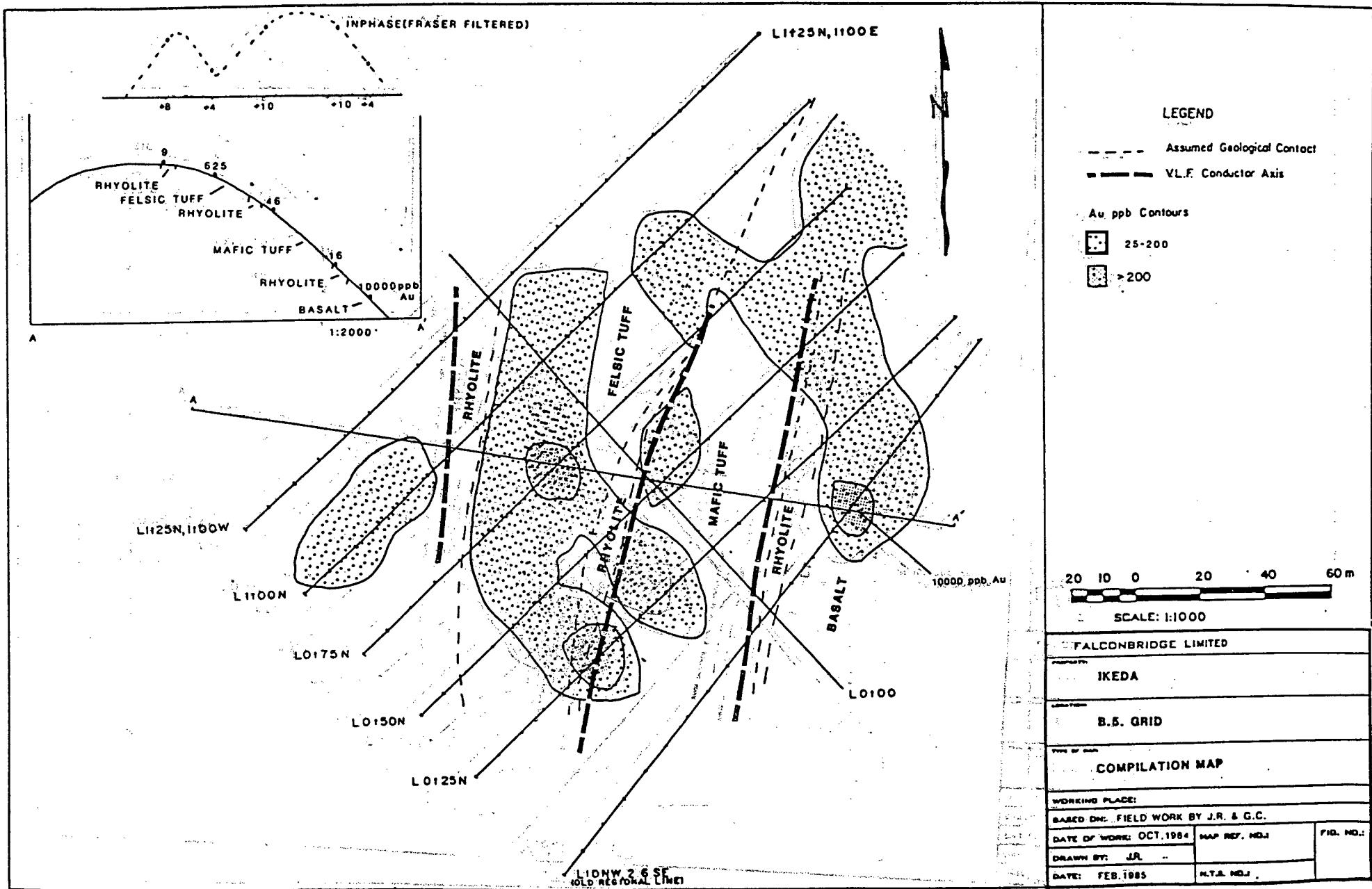
Name: B.5 Grid (10,000 ppb Au)

Location: On south facing slope of ridge between Collison Bay and Ikeda Cove approximately 410m east of line 0+00 at an elevation of 240m (800 feet).

Work Performed: Detailed (1:1000) mapping, detailed geochemistry (10m spacing), VLF-EM

Results: Follow-up work was done over the area as a result of a 10,000ppb Au detected during reconnaissance soil sampling. Follow-up soil sampling failed to duplicate this value; quite likely the initial soil survey encountered a small nugget from an upslope source. Follow-up soil sampling uncovered an area above the 10,000ppb Au soil with anomalous Au values (max. 625ppb Au) over a larger area. Limited outcrop hampers ground definition of anomaly; the current interpretation from available outcrop is that gold mineralization disseminated along rhyolite-tuff contacts within the Karmutsen Formation. The VLF-EM depicts several conductors along these volcanic contacts.

Recommendations: The anomalous zone should undergo a limited soil sampling program using a maximum of 5m spacing between stations along lines 0+75N, 0+50N, 0+25N and 0+00N between the 25ppb Au contours east of the baseline. Following receipt of these results the area should be drilled. A minimum of 3 drill holes 60-90m in length over the anomalies is recommended.



APPENDIX #5SHOWING DATA SHEET

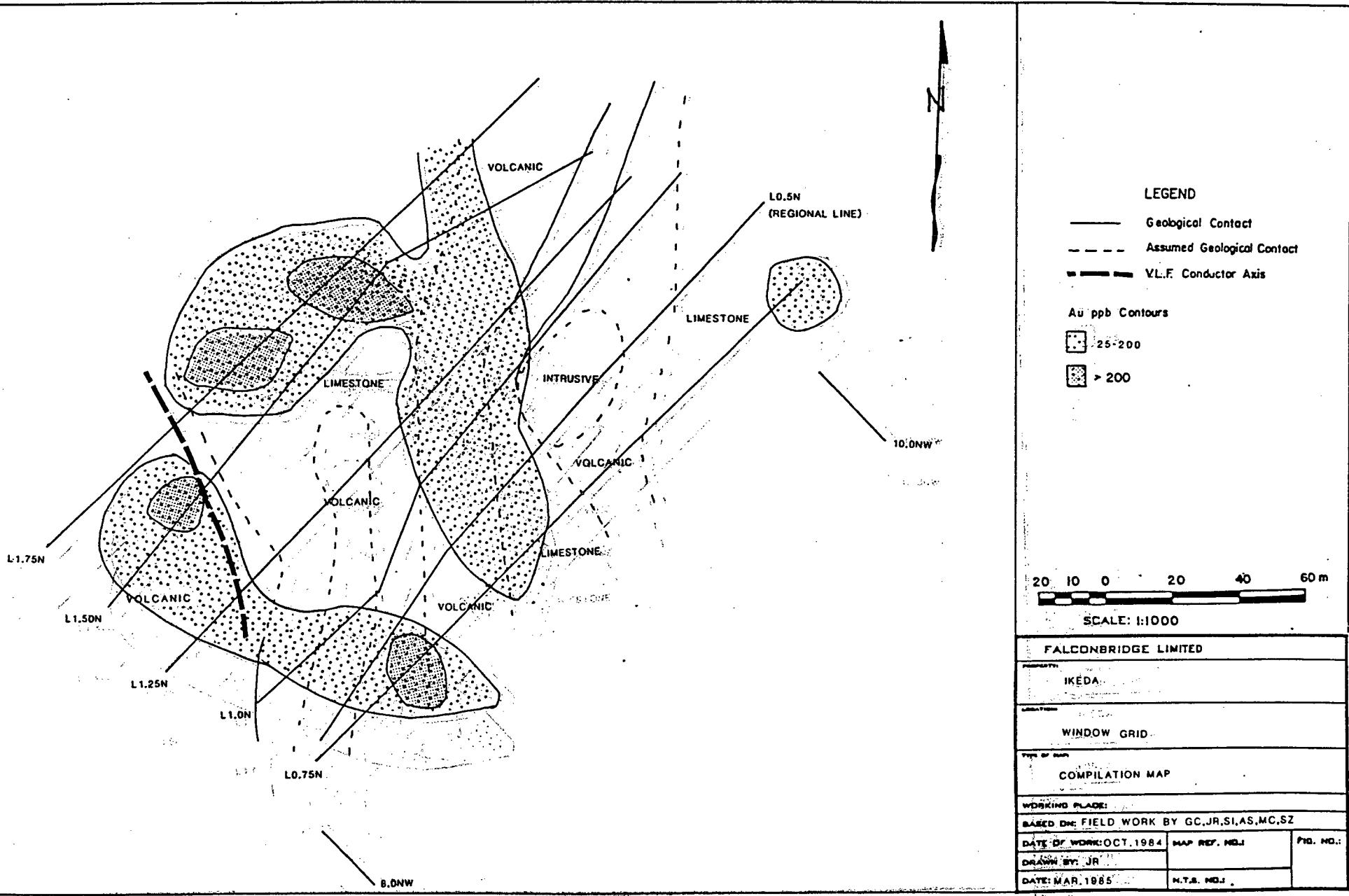
Name: Window Grids

Location: On north facing slope of the ridge between Ikeda Cove and Collison Bay, 150m SE of the western end of the Rose Pit between 195m (650 ft) and 260m (850 ft) elevation.

Work Performed: Detail soil geochemistry (10m spacing), detailed (1:1000) mapping, VLF-EM (10m spacing).

Results: Detailed work initiated as a result of elevated gold values in the soils. Detailed gold geochemistry illustrates a zone near the north end of the grid with anomalous gold values (max. 500ppb). The central and southeast portion of the grid displays moderate gold values (max. 310ppb). Geological mapping indicates an interbedded volcanic-limestone complex with minor dykes distributed throughout the area. VLF-EM indicates a general north south trending anomaly slightly offset to the west of the soil anomalies. The anomaly is interpreted to be due to a limestone/volcanic contact which may be the source for the gold anomaly.

Recommendations: In spite of the apparent lower levels of gold in soils over the area, the anomaly is worth investigating further. There is the possibility that the gold mineralization is emanating from a similar source as in the case of the Windy Grid (App. 1) anomalies. Drilling of 2 short holes (30-50m) from one side of the anomaly to intersect the zone is recommended. However, at present the drilling should be given a low priority as there are other targets which should be drilled first.



APPENDIX #6SHOWING DATA SHEET

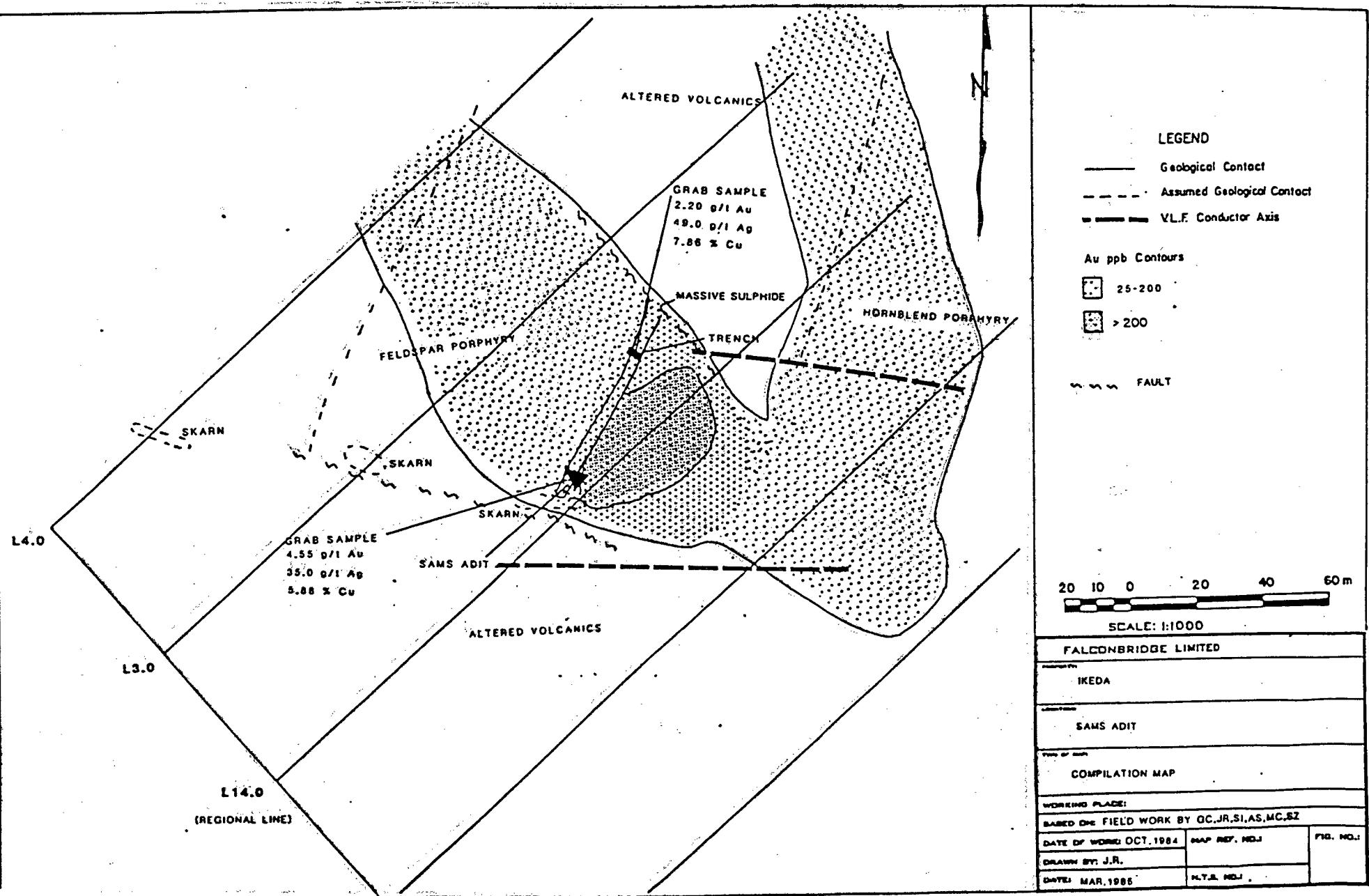
Name: Sam's Adit

Location: On south facing slope of ridge between Collison Bay and Ikeda Cove, 1100m west of the northern head of Collison Bay at an elevation of 70m (235 ft).

Work Performed: Detailed (1:1000) mapping, soil geochemistry (20m spacing), VLF-EM (20m spacing) trenching.

Results: Detailed work initiated as a result of the discovery of an old adit and long sulphide lens. Favourable gold in soils incurred during reconnaissance soil survey.
Follow-up soil geochemistry gave disappointing results. No real extension to initial survey indicated.
Geologic mapping has outlined what is interpreted to be a restricted lens of massive to semi-massive sulphides (po, py, cp) which generally conforms to observed bedding attitudes.
Trenching of the lens northeast of the adit returned good results. VLF-EM did not detect the body; possibly this is due to the attitude of the lens.

Recommendations: Because this deposit appears to be fault controlled, it should be given a low priority for further work. If sufficient funds are available, ground EM should be done over the area to attempt to define the extent of the lens down dip. Should sufficient extension to make a reasonable deposit be indicated, consideration should be given to drilling the showing.



APPENDIX #7SHOWING DATA SHEET

Name:

Meal Ticket Adit

Location:

On south side of small knoll along cut line extending from southwest head of Collison Bay.

Work Performed:

Reconnaissance soil sampling (25m spacing), 1:1000 scale mapping along reconnaissance lines, VLF-EM (20m station spacing), channel sampling of adit, systematic sampling of dumps.

Results:

Gold soil geochemistry disappointing. Possibly this is a function of soil quality, noted to generally be leached "A" horizon.

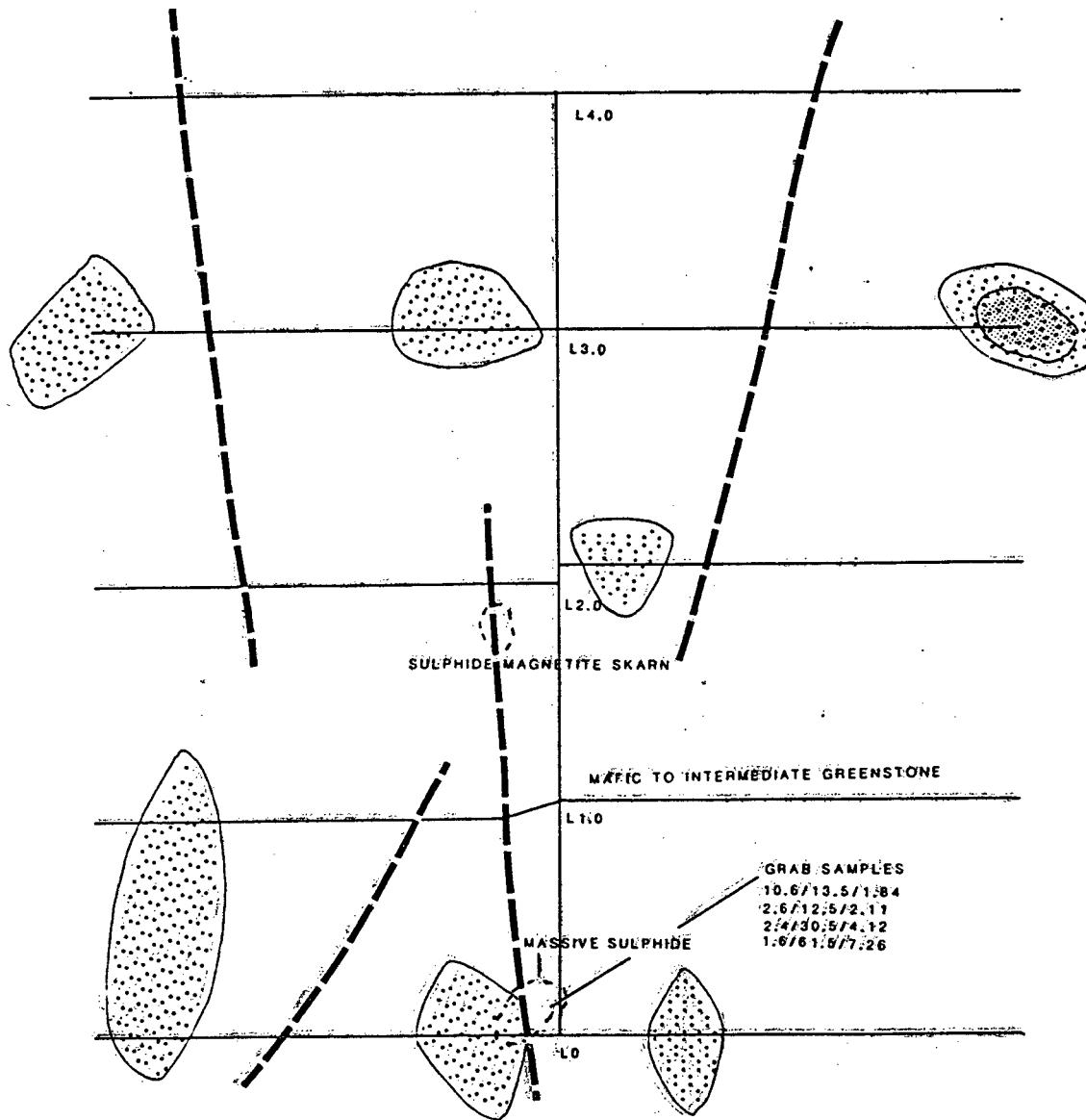
Mapping and channel sampling of adit indicates a narrow vein of massive and semi-massive sulphides (po, py, cp) with a northeast trend and moderate (60°) dip to the west - channel sampling results disappointing.

VLF-EM (in phase) indicates that the vein may extend to the north. Correlation of surface geology with geophysics suggests minor skarn outcrops may be surface expression. Sulphides in lens appear, on basis of morphology and texture, to represent primary metasomatic fluids deposition along major tension fracture. Sulphide deposition is clearly post deformational.

Systematic sampling of dumps in front revealed much more promising values. Estimated reserves; 1,800 tons with average grade 1.22g/t Au.

Recommendations:

Detailed structural mapping and geophysics to verify presence of vein should be done. Depending upon results, the vein should then be drilled.



LEGEND

— — — Assumed Geological Contact
— — — V.L.F. Conductor Axis

Au ppb Contours
 25-200
 > 200

GRAB SAMPLES

Au g/t / Ag g/t / Cu %

40 20 0 40 80 120 m

SCALE: 1:2000

FALCONBRIDGE LIMITED

MAPPATH

IKEDA

LOCATION

MEALTICKET

TYPE OF MAP

COMPILE MAP

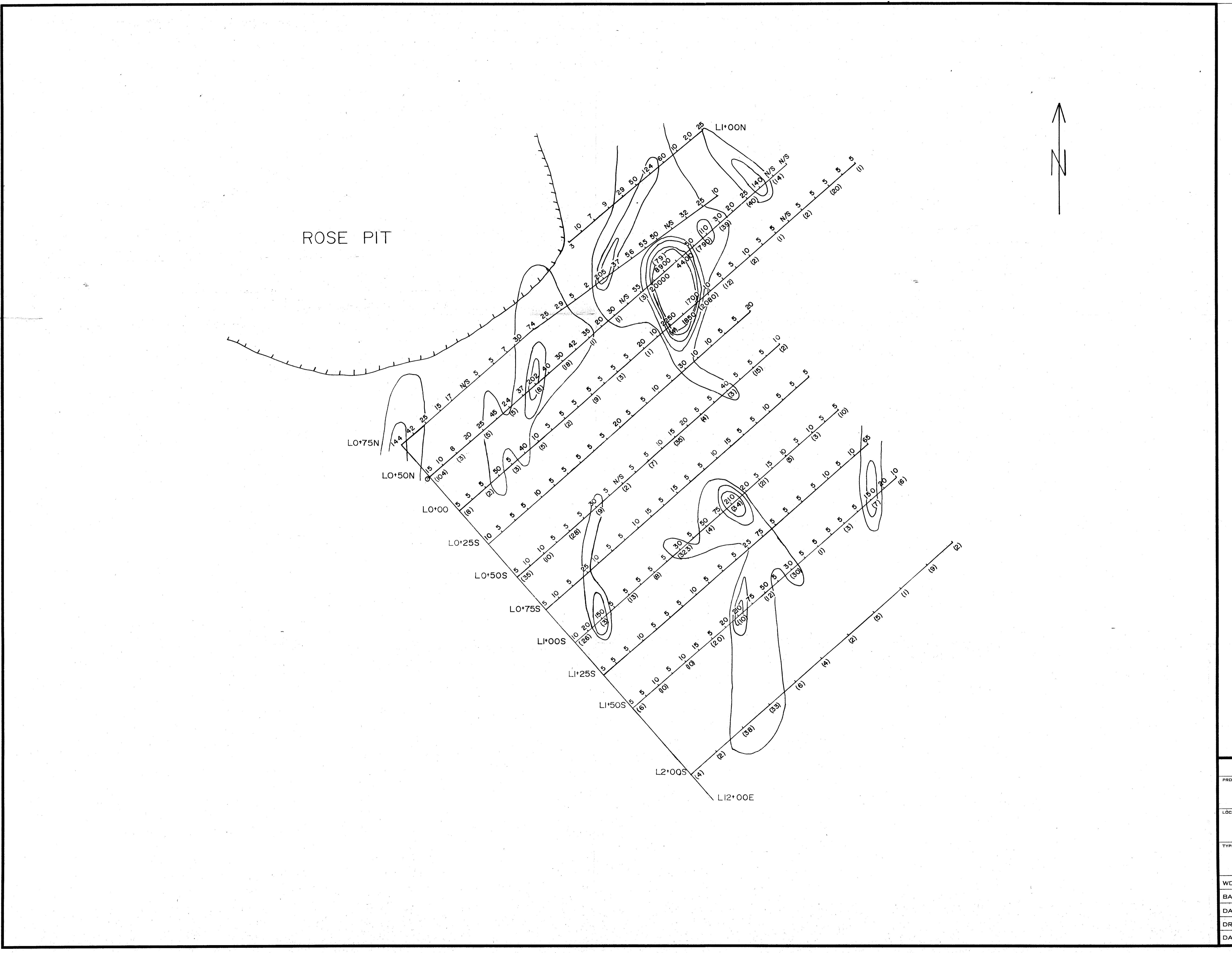
WORKING PLACE:

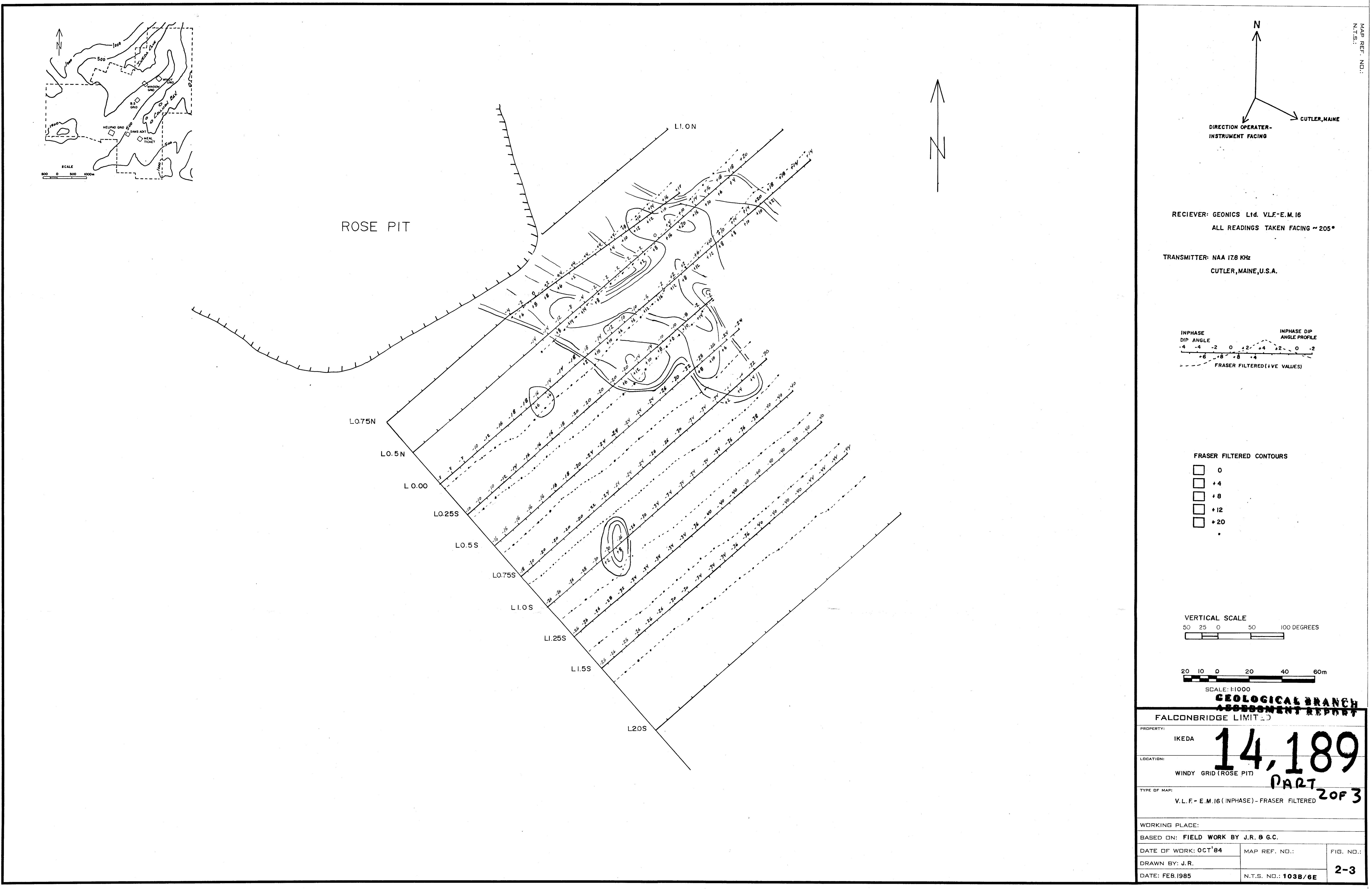
BASED ON: FIELD WORK BY GC, JR, SI, AS, MC, SZ.

DATE OF WORK: OCT. 1984 MAP REF. NO.:

DRAWN BY: J.R.

DATE: MAR. 1985 N.T.S. NO.:

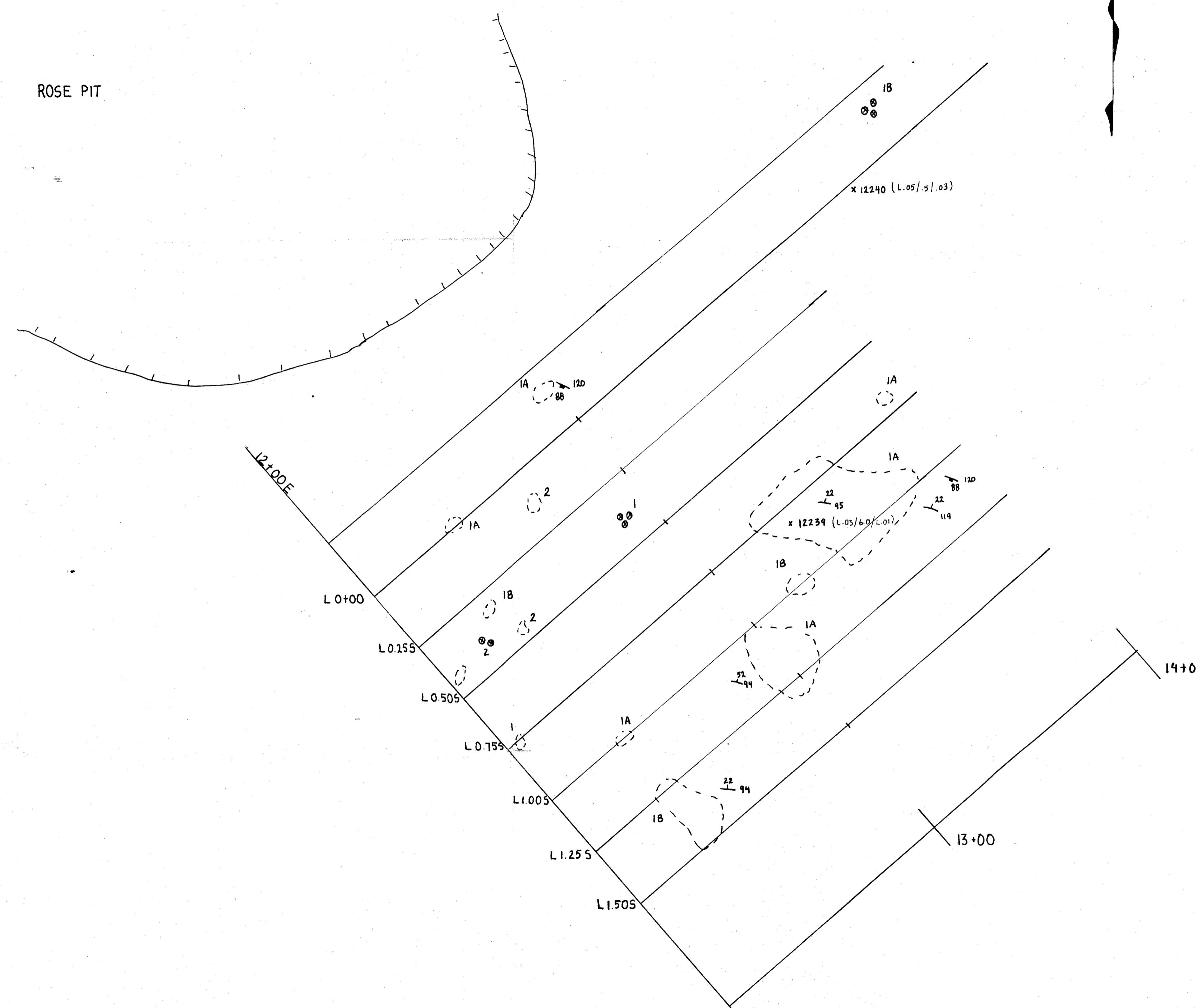




LEGEND

- Outcrop
- Bedding Attitude
- Jointing
- Rock Sample I2345
- Assay Value (Au g/tonne / Ag g/tonne / Cu %)
- Float

ROSE PIT



I BASALT HORNFELSED, MASSIVE, TRACE TO 2% DISS. PY.
IA SILICIFIED BASALT MASSIVE; RELIC PORPHYRITIC TEXTURE
IB AMYGDALOIDAL BASALT AMYG. OF MAG. CHL & EP. 1-3 MM
IN DIA. PILLOWED IN PLACES

2 LIMESTONE M.G. TO CG. CRYSTALLINE

m 20 10 0 20 40 60 m
SCALE: 1:1000

FALCONBRIDGE LIMITED

PROPERTY: IKEDA GEOLOGICAL BRANCH ASSESSMENT REPORT

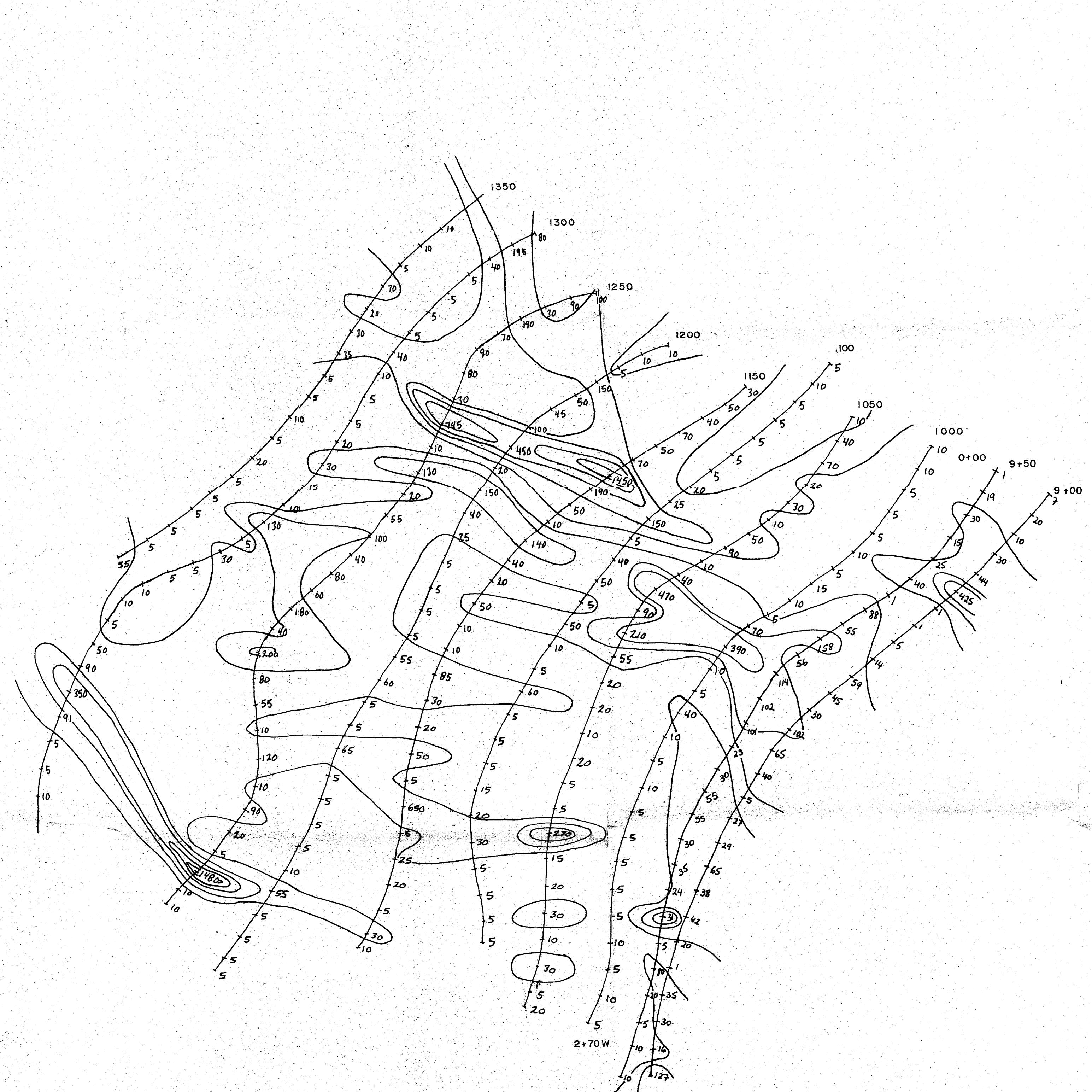
LOCATION: WINDY GRID (ROSE PIT)

TYPE OF MAP: GEOLOGY

WORKING PLACE:
BASED ON: FIELD WORK BY G.C.S.I.J.R.

DATE OF WORK: OCT 1984	MAP REF. NO.:
DRAWN BY: S.I.	
DATE: DEC 84	N.T.S. NO.: I03 B/6 E

14,189
PART
20F3



Au CONTOURS (ppb)

- 25
- 100
- 200
- 500
- 1000

20 10 0 20 40 60m
SCALE: 1:1000

FALCONBRIDGE LIMITED

PROPERTY:
IKEDAGEOLOGICAL BRANCH
ASSESSMENT REPORTLOCATION:
HELIPADTYPE OF MAP:
Au GEOCHEM. (ppb)

WORKING PLACE:

BASED ON: Field work by G.C. + S.Z.

DATE OF WORK: OCT '84

MAP REF. NO.:

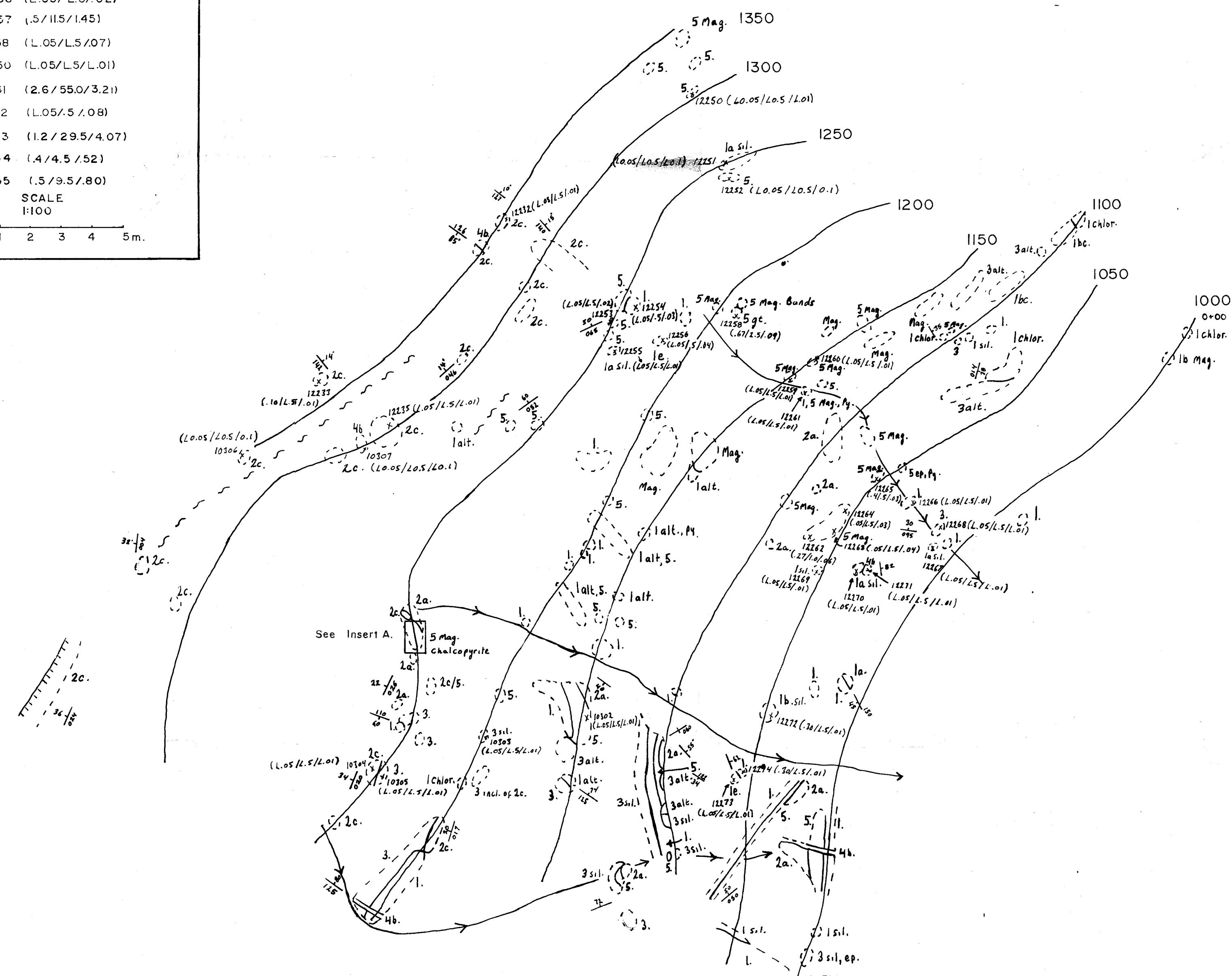
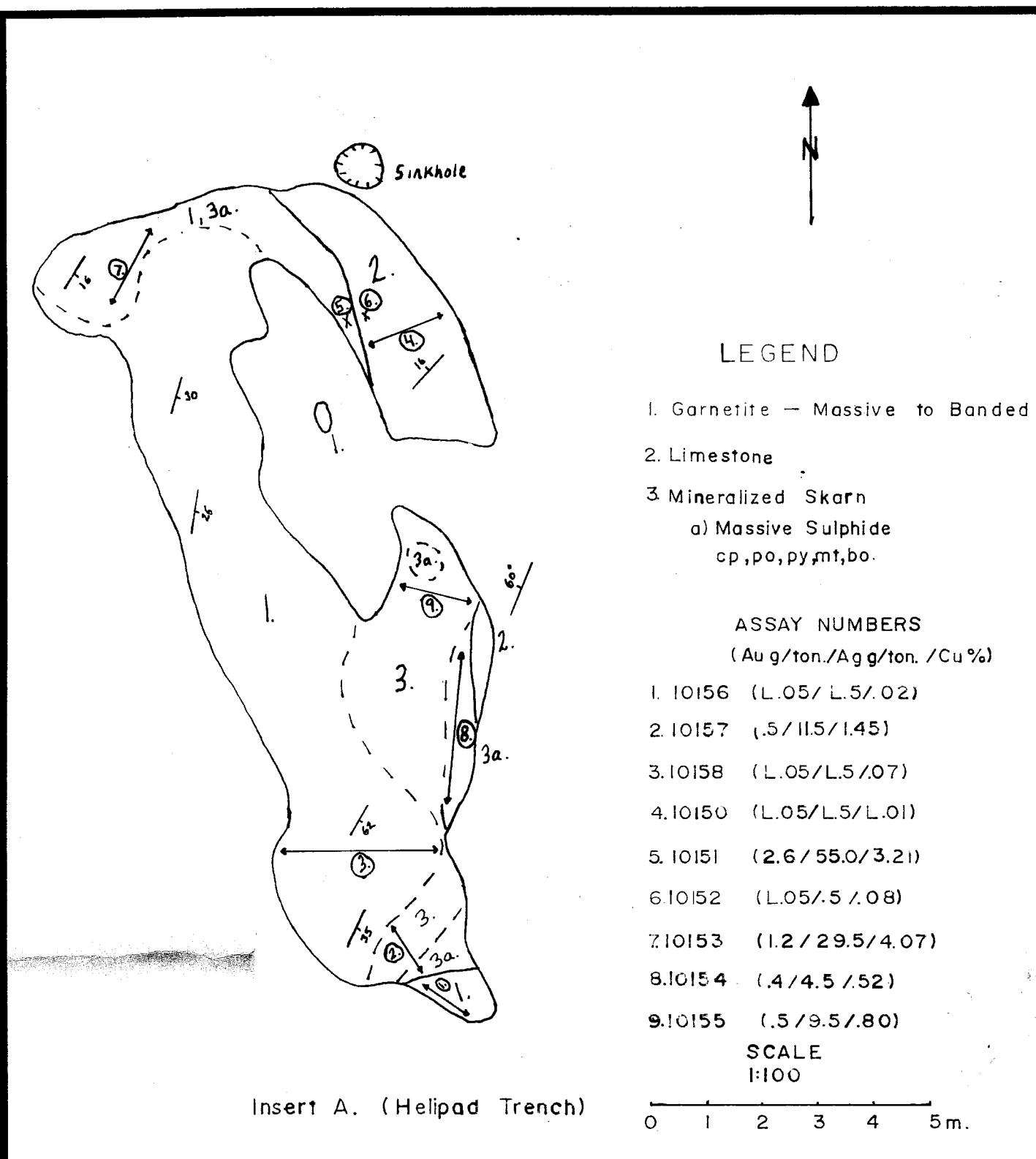
DRAWN BY: J.R.

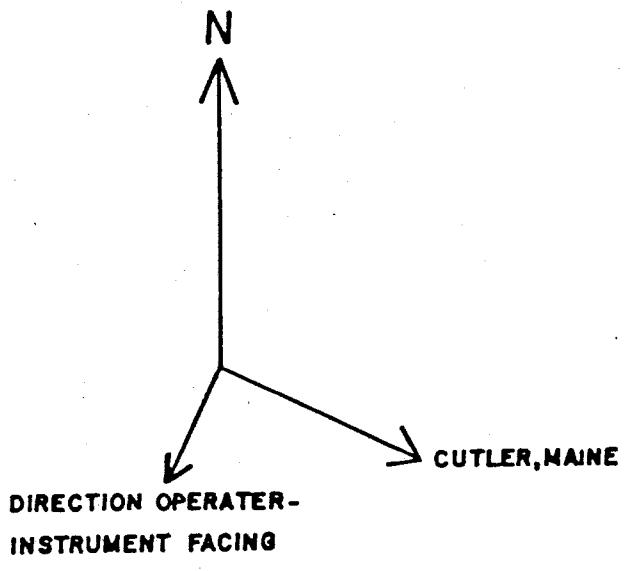
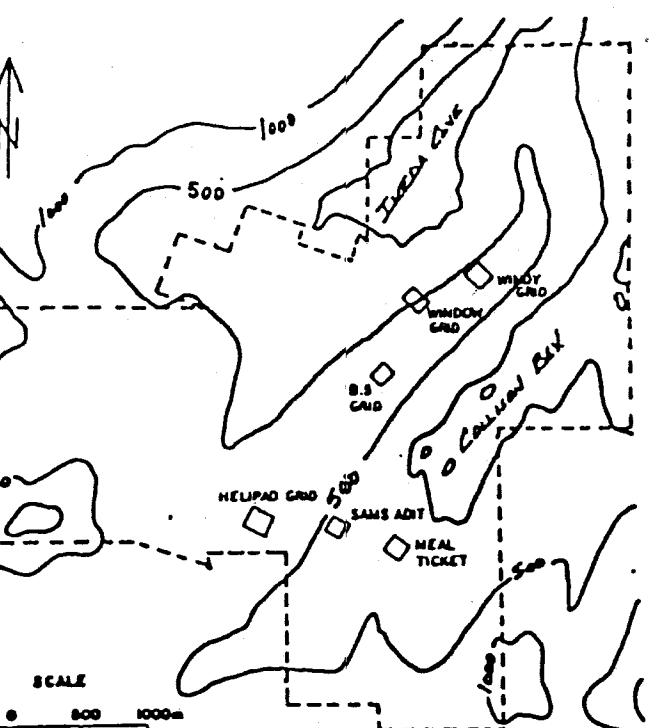
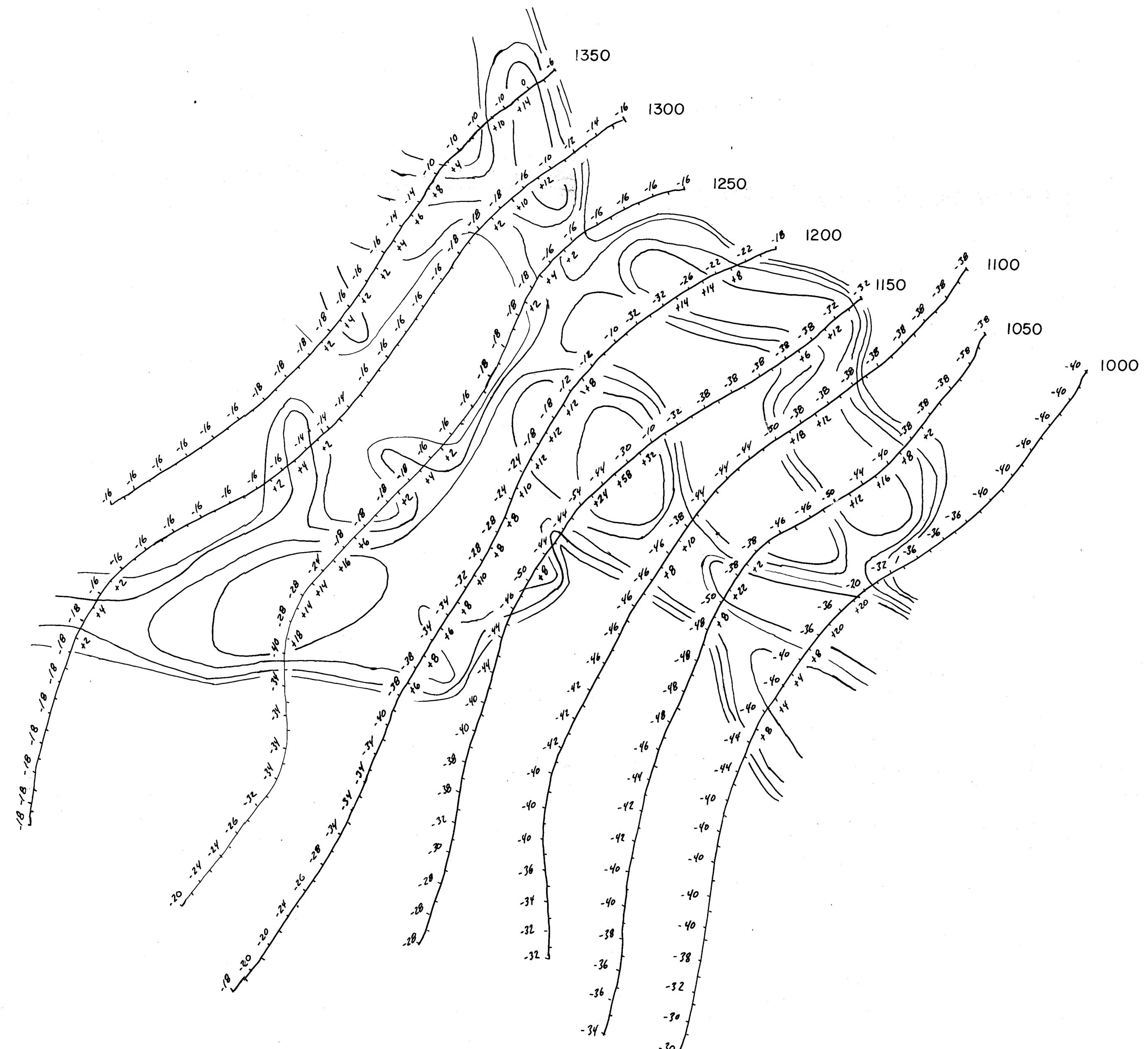
FIG. NO.:

DATE: NOV. 84

N.T.S. NO.: 103B / 6 E

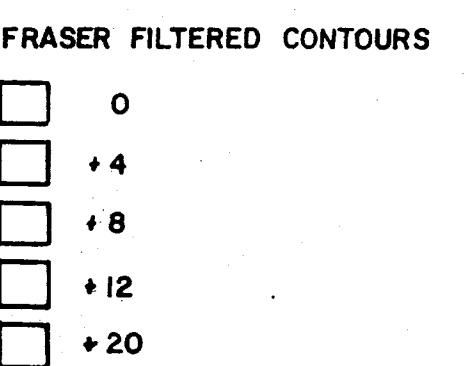
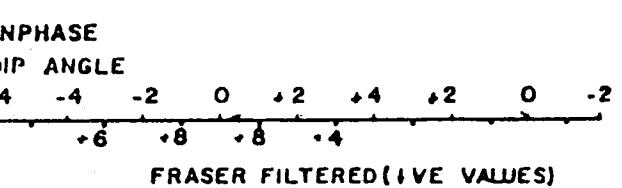
14,189
PART
2 OF 3





RECEIVER: GEONICS Ltd. VLF-E.M.16
ALL READINGS TAKEN FACING ~205°

TRANSMITTER: NAA 17.8 kHz
CUTLER, MAINE, U.S.A.



SCALE: 1:1000

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

FALCONBRIDGE LIMITED

PROPERTY: IKEDA

LOCATION: HELIPAD

V.L.F.-E.M. (INPHASE) FRASER FILTERED
14,189
PART
2 OF 3

WORKING PLACE: FIELD WORK BY J.R. & G.C.

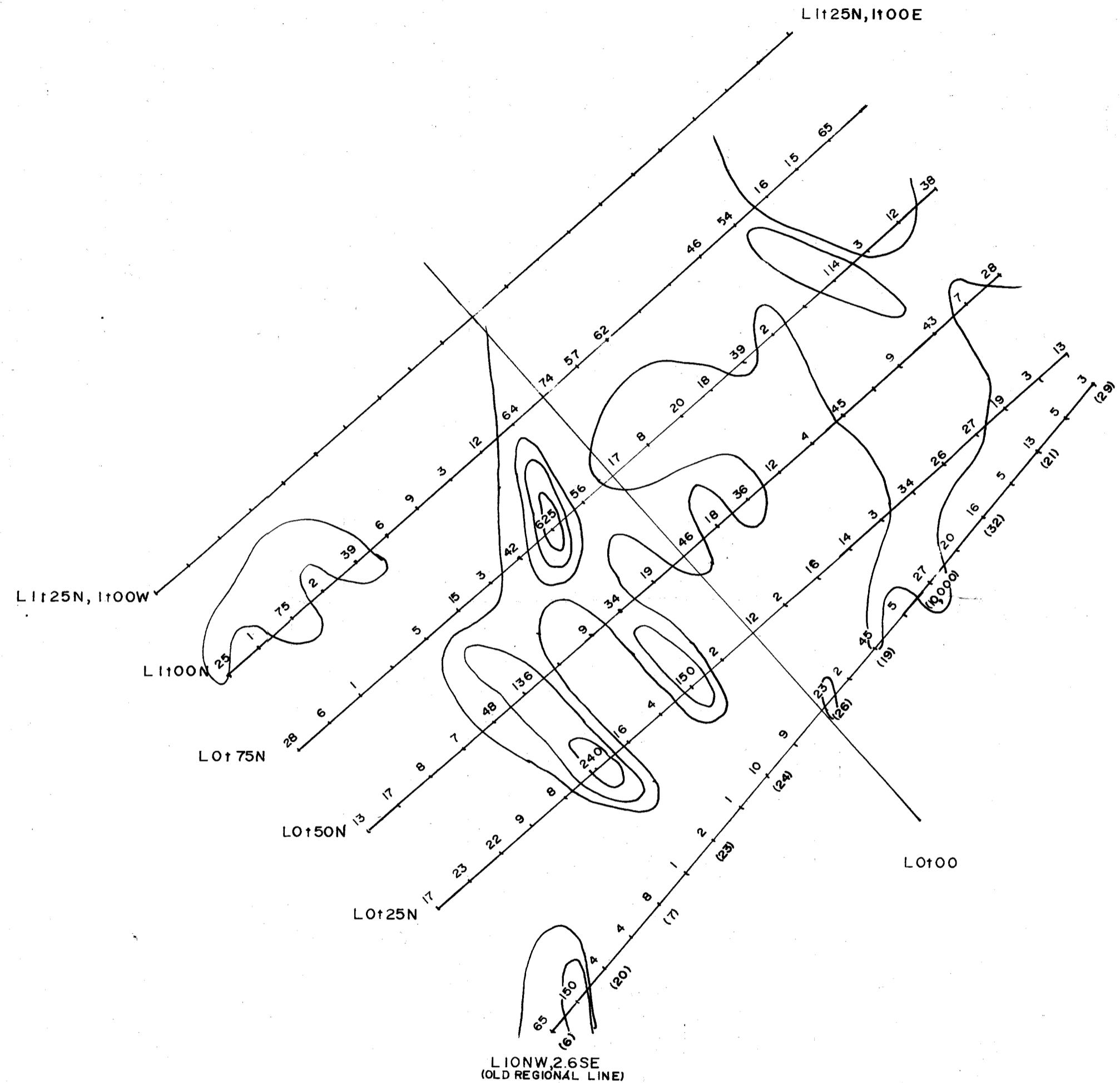
BASED ON: FIELD WORK BY J.R. & G.C.

DATE OF WORK: SEPT '84

DRAWN BY: J.R.

DATE: FEB. 1985

N.T.S. NO.: 103B/6E



LEGEND

NEW DETAILED GEOCHEMISTRY

(12)

OLD REGIONAL GEOCHEMISTRY

(12)

AU CONTOURS (ppb)

- 25
- 100
- 200
- 500
- 1000

m 20 10 0 20 40 60m
SCALE: 1:1000

GEOLoGICAL BRANCH
ASSESSMENT REPORT

FALCONBRIDGE LIMITED

PROPERTY:

IKEDA

14,189

LOCATION:

B.5. GRID (10,000 ppb Au)

PART

2 OF 3

TYPE OF MAP:

AU GEOCHEMISTRY (ppb)

WORKING PLACE:

BASED ON: Field work by G.C. & S.Z.

DATE OF WORK: OCT. 1984

MAP REF. NO.:

FIG. NO.:

DRAWN BY: S.I.

DATE: NOV. 84

N.T.S. NO.: 103 B/6E

4-1

LEGEND

Outcrop

Bedding Attitude

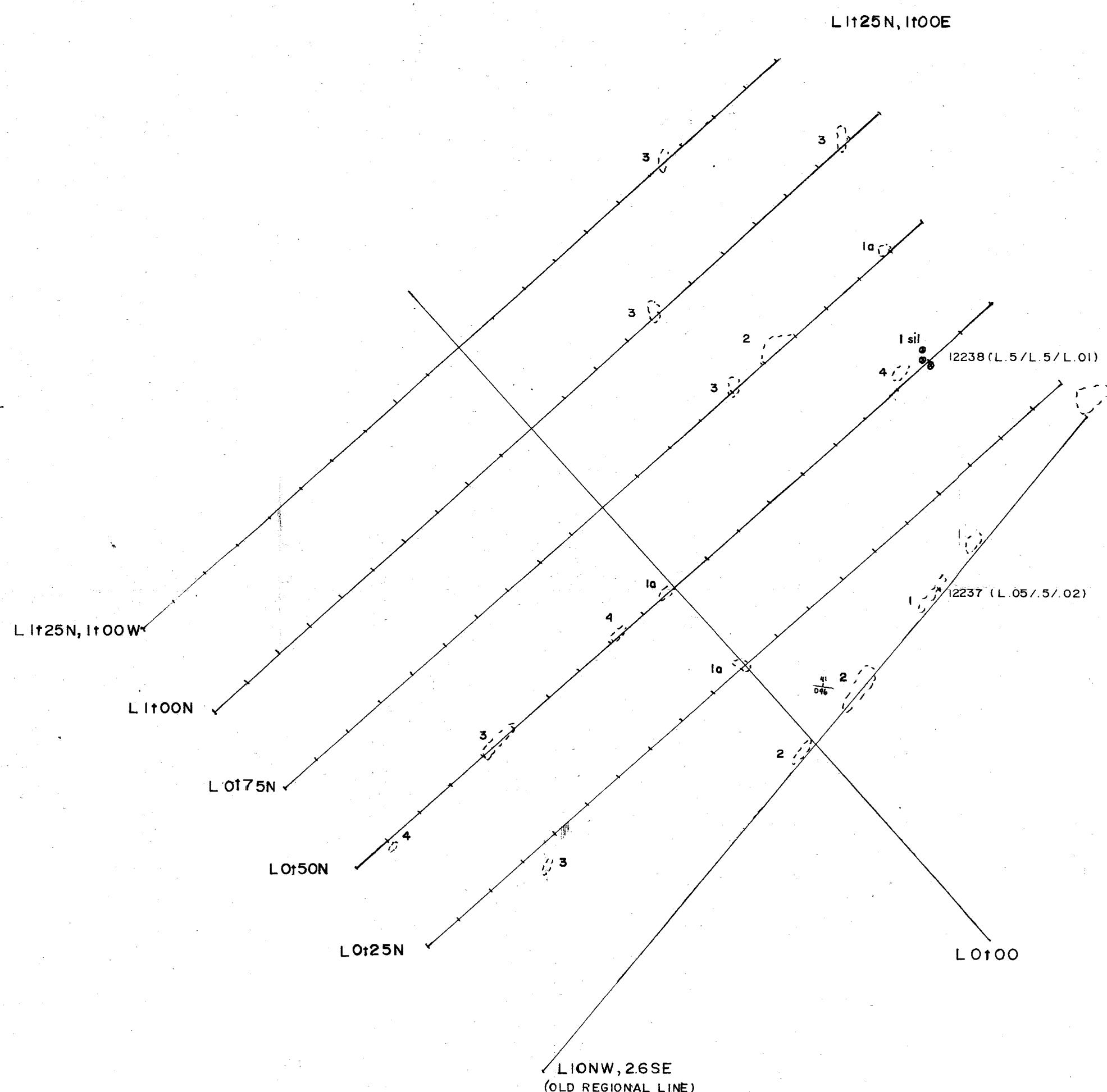
Rock Sample

X 12345

Assay Values

(Aug/tonne / Ag g/tonne / Cu %)

Float



1. BASALT massive, hornfelsed, m.g., tr. py.
- 1a. MAFIC TUFF massive, fsp. frag. 10%
2. FLOW TOP TUFF fsp hbl xl frag.
3. FELSIC TUFF
4. RHYOLITE

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,189

m 20 10 0 20 40 60 m

SCALE: 1:1000

**PART
2 OF 3**

FALCONBRIDGE LIMITED

PROPERTY:

IKEDA

LOCATION:

B.5. GRID (10,000 ppb Au)

TYPE OF MAP:

GEOLOGY

WORKING PLACE:

BASED ON: FIELD WORK BY S.I., G.C.

DATE OF WORK: OCT. 1984

MAP REF. NO.:

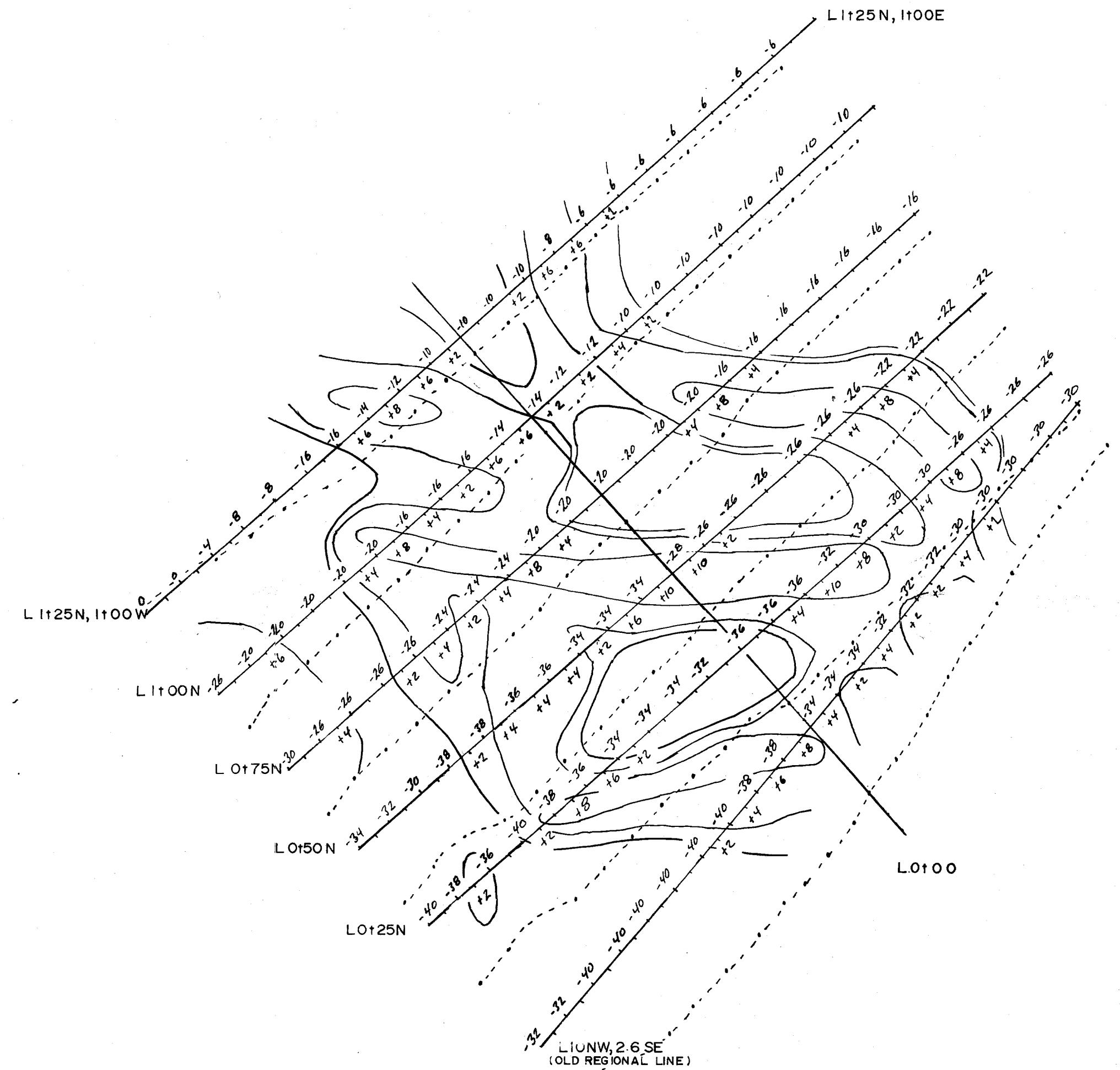
APP.

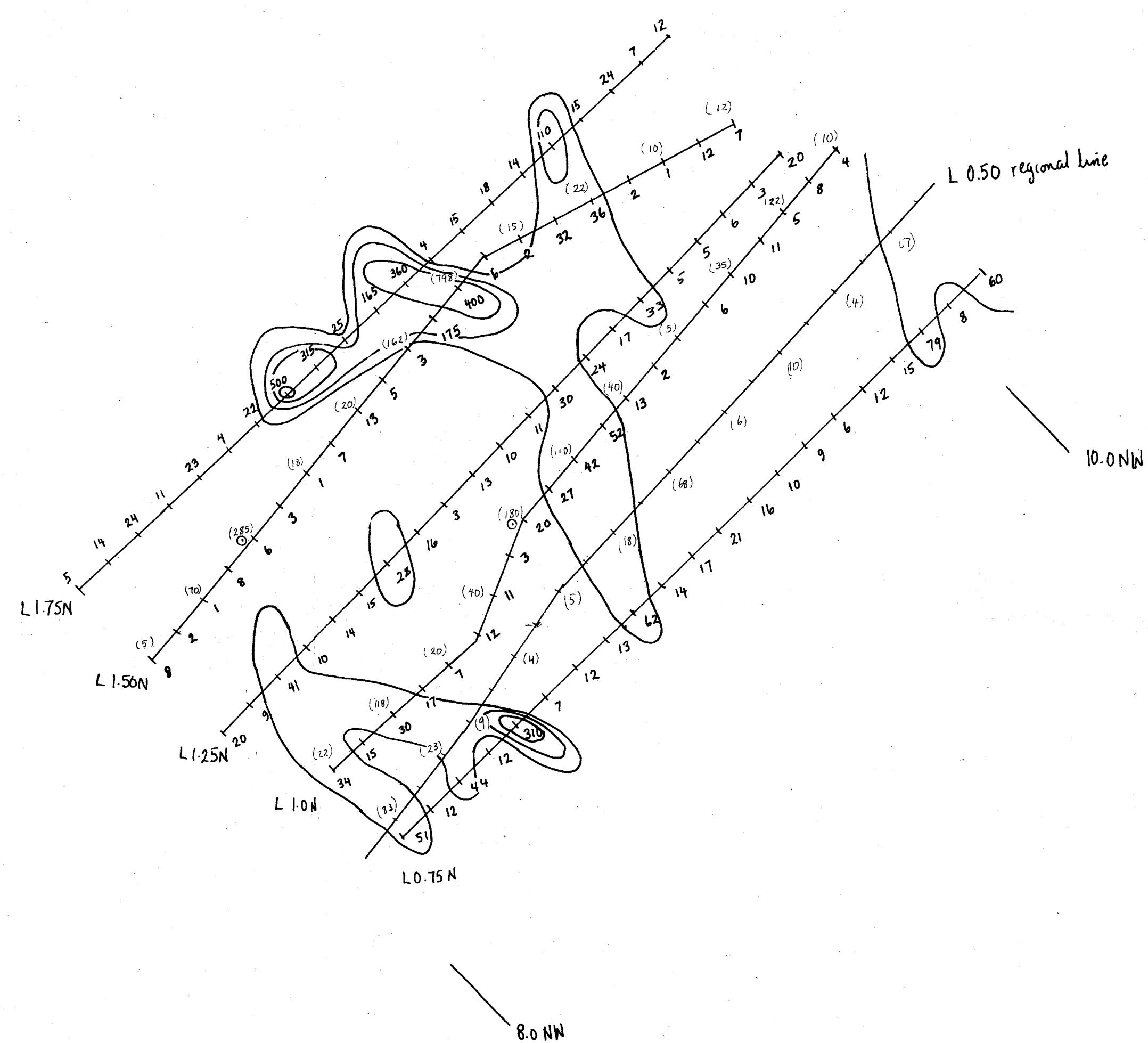
DRAWN BY: S. I.

4-2

DATE: DEC. 84

N.T.S. NO.: 103 B/6 E





LEGEND

Au Geochemistry ppb
 NEW DETAILED SAMPLES 12
 OLD REGIONAL SAMPLES (12)

Au CONTOURS (ppb)
 25
 100
 200
 500
 1000

○ SPOT ANOMALY

SCALE: 1:1000

GEOLOGICAL BRANCH
ASSESSMENT REPORT

FALCONBRIDGE LIMITED

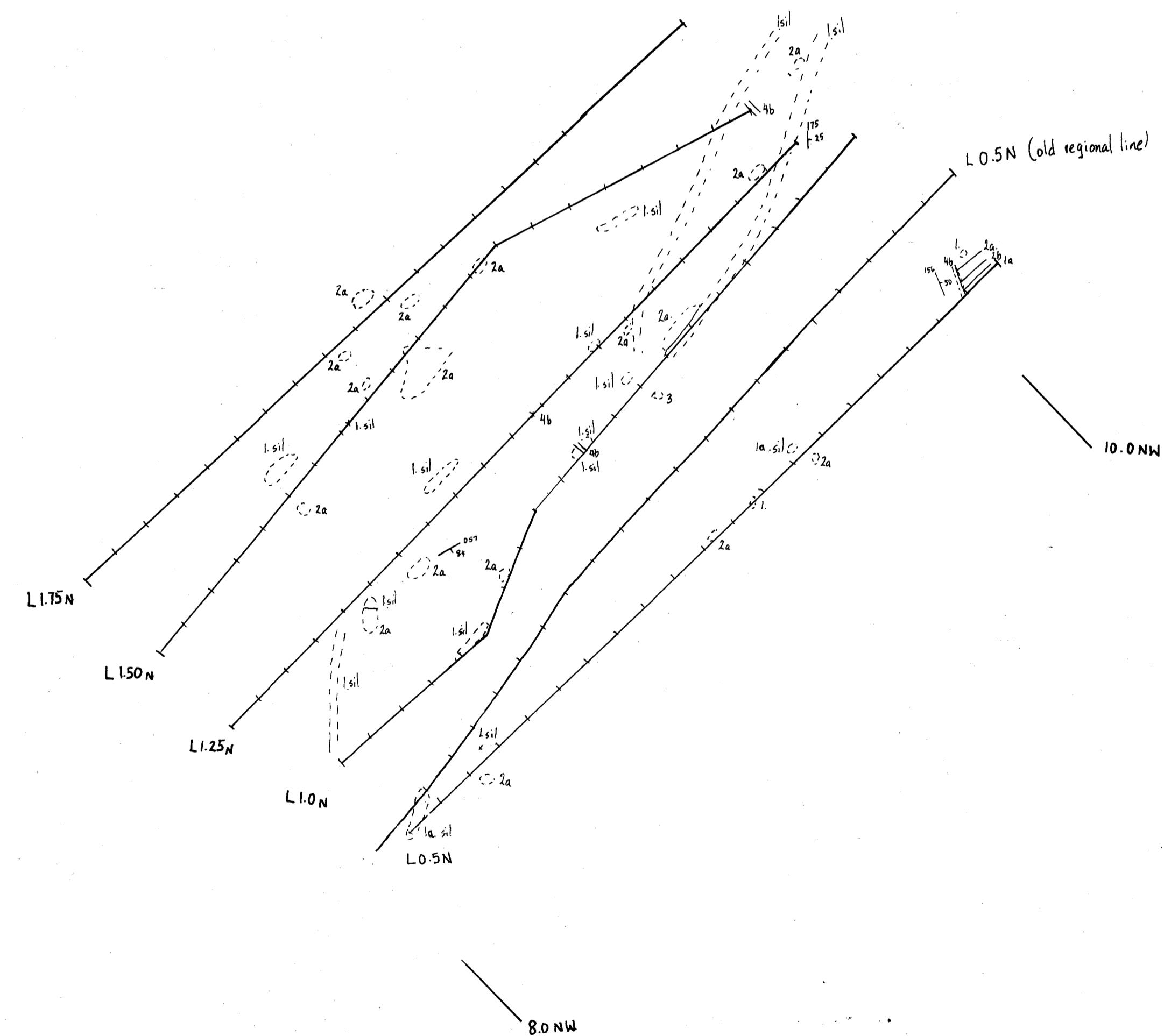
PROPERTY:	IKEDA	14,189
LOCATION:	WINDOW GRID (ROSE RT)	
TYPE OF MAP:	AU GEOCHEMISTRY (PPB)	
WORKING PLACE:		
BASED ON:	Field work by G.C. & S.Z.	
DATE OF WORK:	OCT. 1984	MAP REF. NO.:
DRAWN BY:	S.I.	FIG. NO.:
DATE:	NOV. 84	N.T.S. NO.: 103 B/6 E

5-1

LEGEND

- Outcrop
Geological Contact
Bedding Attitude

1. VOLCANICS a. Porphyry
2. SEDIMENTS a. Limestone
 b. Argillite
3. INTRUSIVES Dioritic to Granodioritic
4. DYKES a. Felsic
 b. Intermediate



SCALE: 1:1000

GEOLOGICAL BRANCH

ASSESSMENT REPORT

FALCONBRIDGE LIMITED

PROPERTY: IKEDA

LOCATION: WINDOW GRID (detailed follow up of ROS. GRID)

TYPE OF MAP: GEOLOGY

WORKING PLACE:

BASED ON: FIELD WORK by A.S.

DATE OF WORK: OCT 1984

DRAWN BY: S. F.

DATE: DEC 84

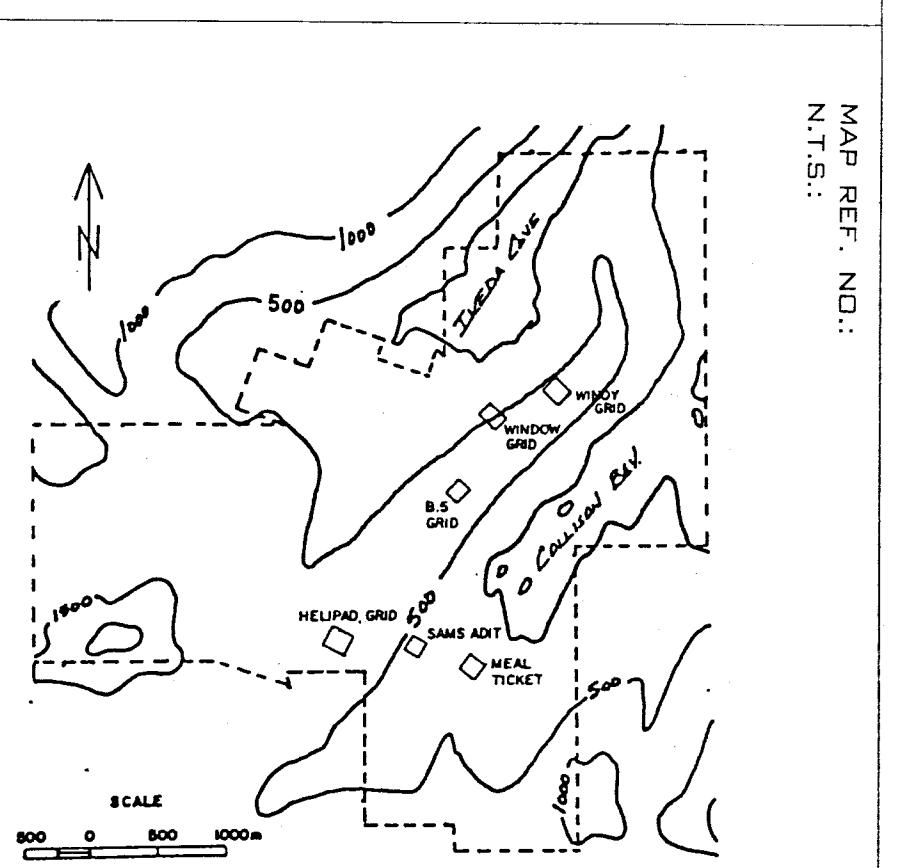
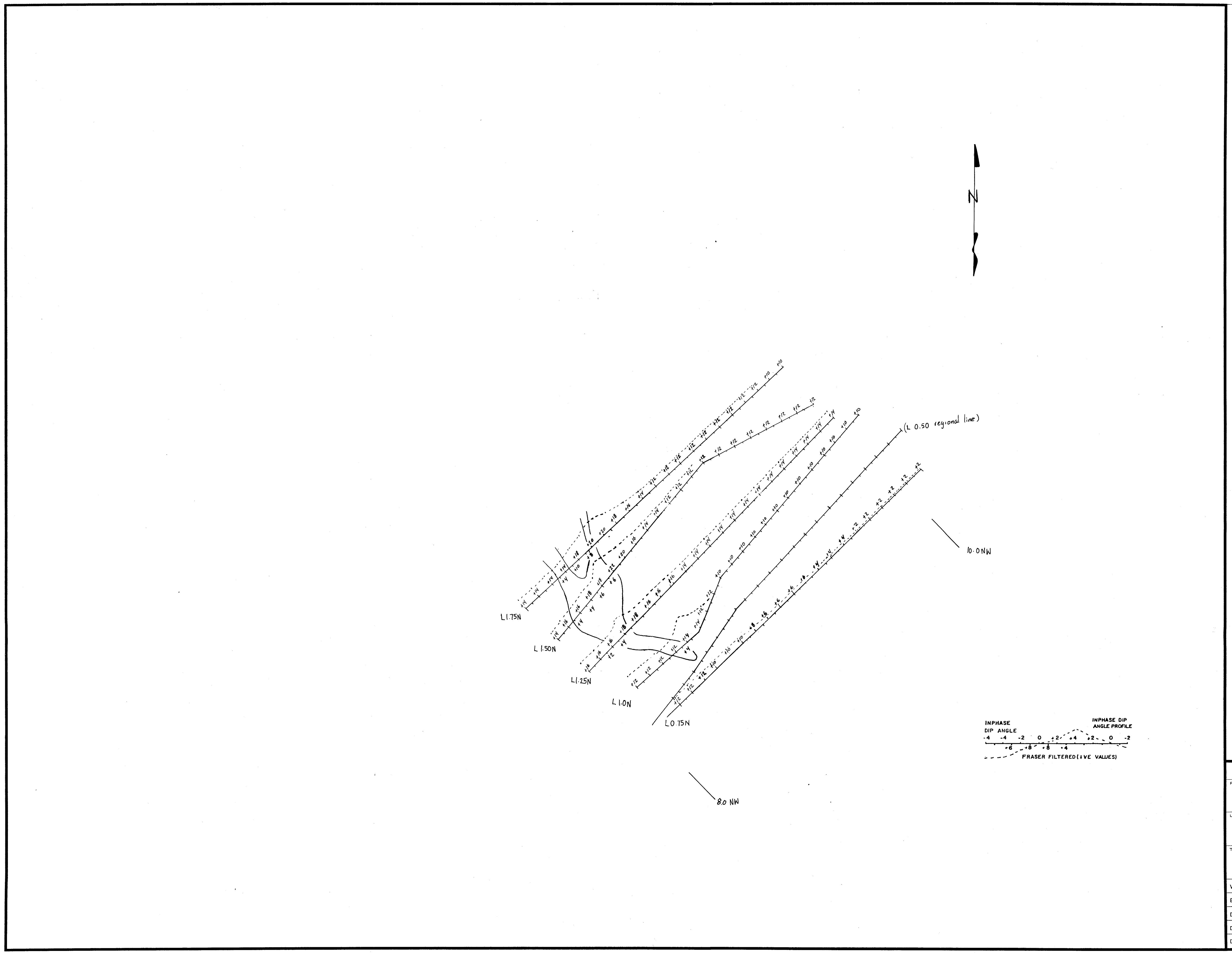
MAP REF. NO.: FIG. NO.: 5-2

N.T.S. NO.: 103 B/6E

14,189

PART

2 OF 3



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

N

DIRECTION OPERATOR-

CUTLER, MAINE

RECEIVER: GEONICS Ltd. VLF-E.M. 16
ALL READINGS TAKEN FACING ~ 205°

TRANSMITTER: NAA 17.8 KHz

FRASER FILTERED CONTOURS

	0
	+ 4
	+ 8
	+ 12
	+ 20

VERTICAL SCALE
0 25 0 50 100 DEGREES

0 10 0 20 40 60 M

SCALE: 1:1000
GEOLOGICAL BRANCH

ASSESSMENT

NBRIDGE LIM

14

4

W. GRID

PART 1

2 OF 3

- E.M.16 (INPHASE) FRASER FILTERED

PLACE:

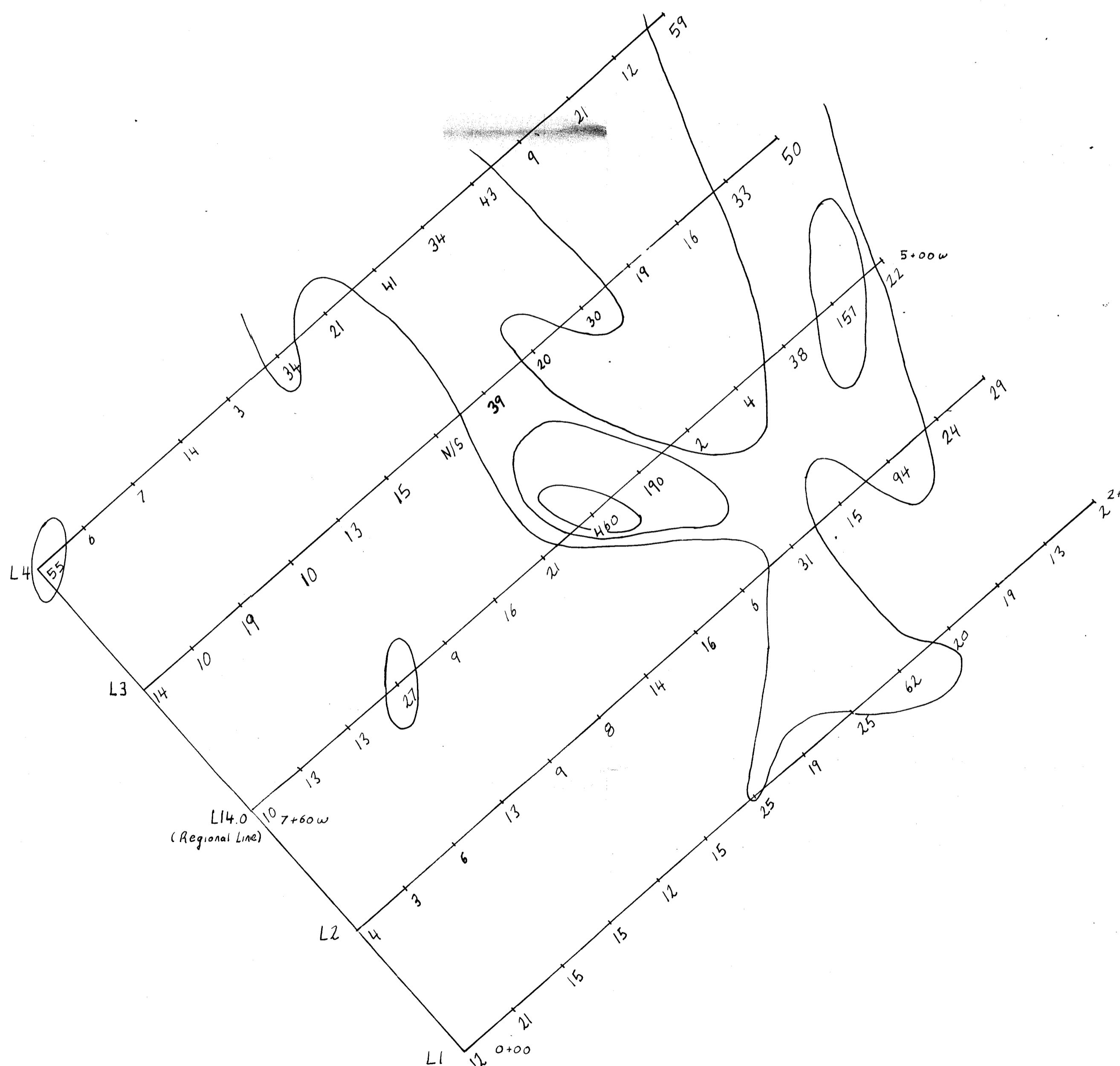
FIELD WORK BY G.C. & J.R.

RK: OCT. 1984

.R.

85 N.T.S. NO.: 103 B/

100



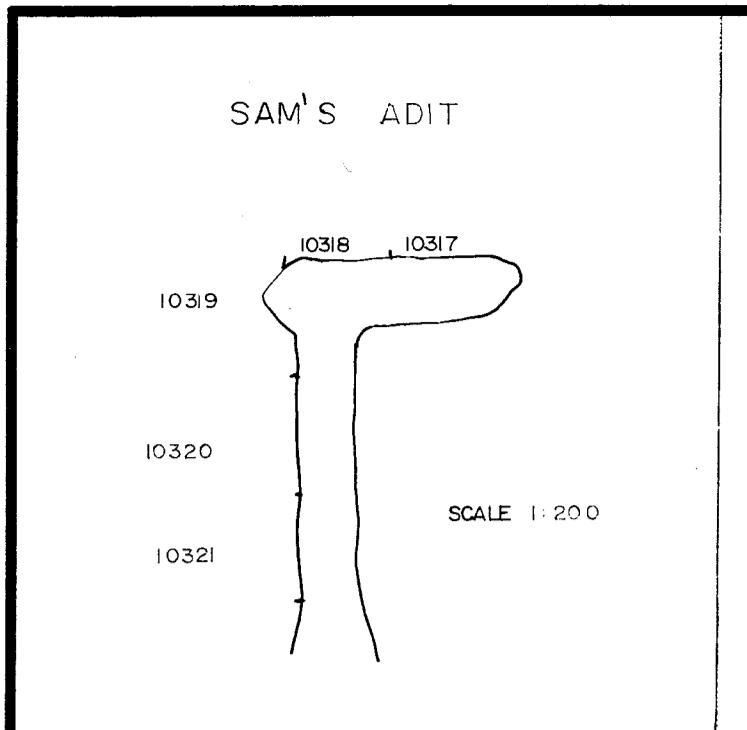
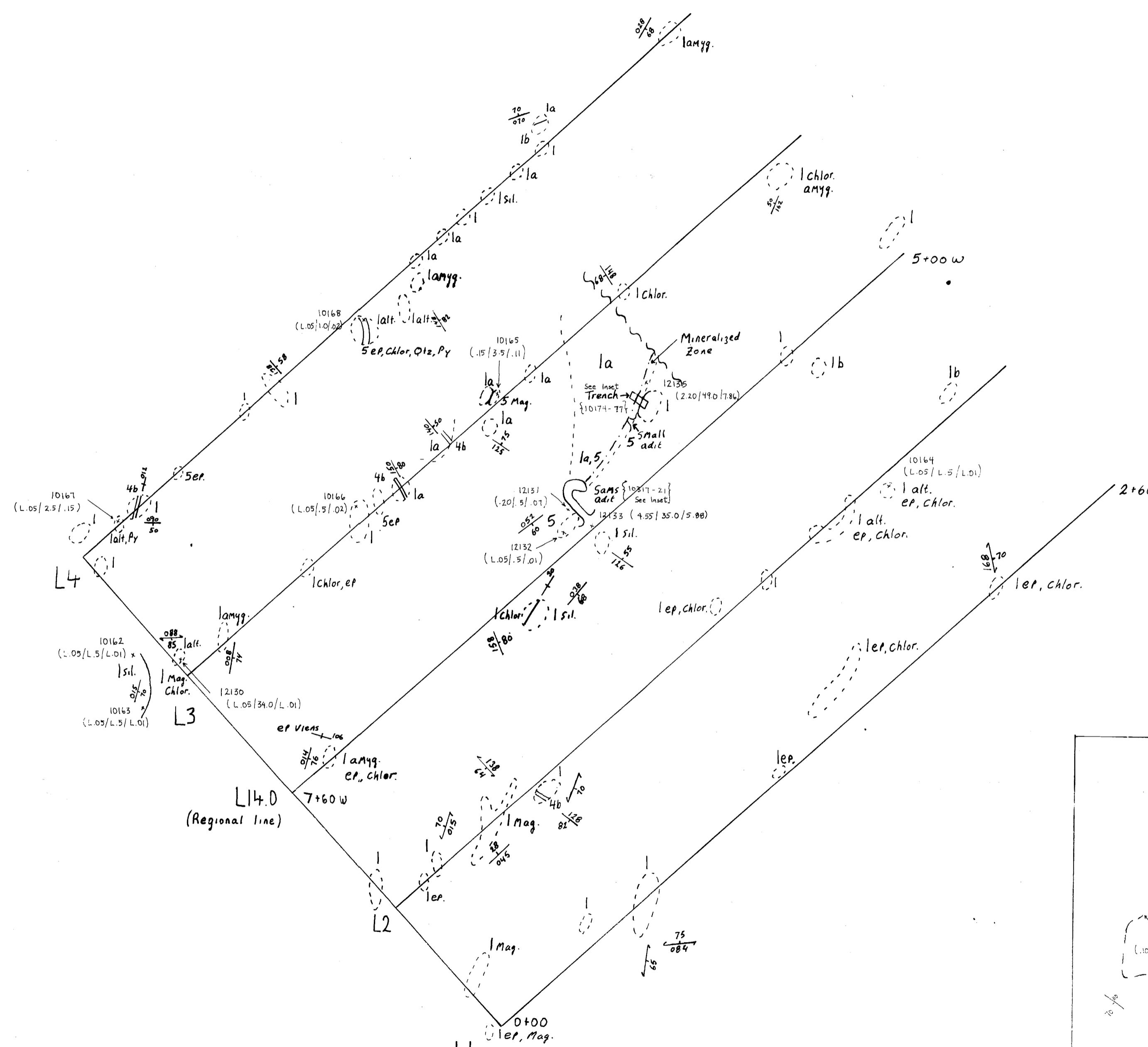
N.T.S. NO.:

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

FALCONBRIDGE LIMITED
PROPERTY: IKEDA
LOCATION: SAMS ADIT
TYPE OF MAP: AU GEOCHEM. (ppb)
WORKING PLACE:

BASED ON: Field work by G.C. & S.Z.
DATE OF WORK: OCT '84 **MAP REF. NO.:** FIG. NO.:
DRAWN BY: J.R. **FIG. NO.:** 6-1
DATE: NOV. 84 **N.T.S. NO.:** 103 B/6 E

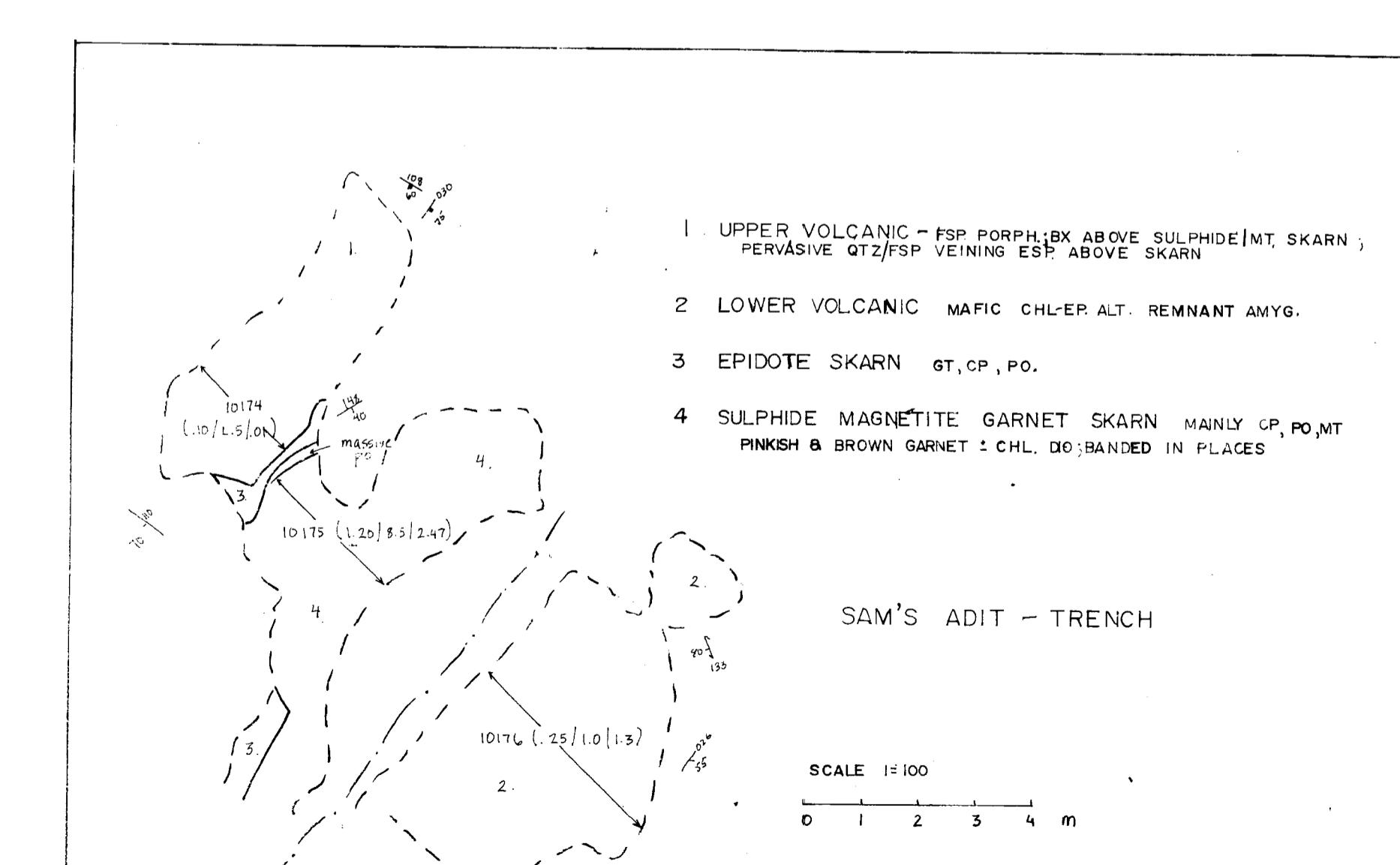
14,189
PART
ZOF 3

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

LEGEND

- Outcrop
- Rock Sample x 12345
- Assay Values (Au g/tonne / Ag g/tonne / Cu %)
- Jointing
- Bedding Attitude
- Foliation
- Geological Contact defined assumed
- Fault
1. Volcanic a) Feldspar Porphyry 20-30% Feldspar, Maybe Brecciated
b) Hornblende Porphyry Intermediate
2. Sediments
3. Intrusive
4. Dike a) Felsic
b) Mafic
5. Skarn

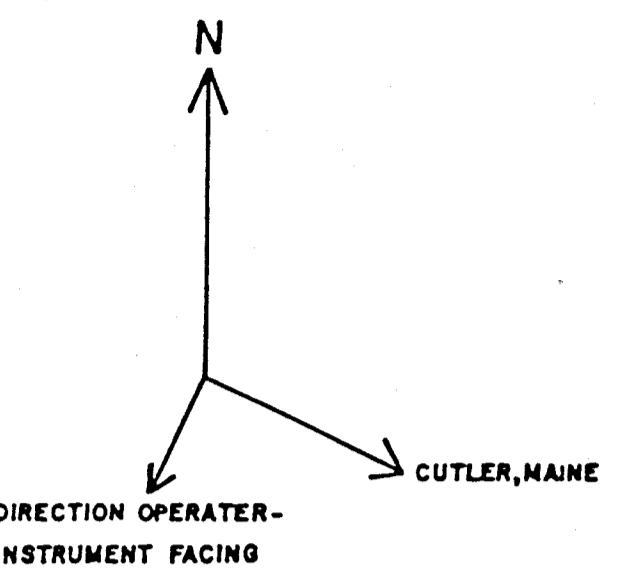
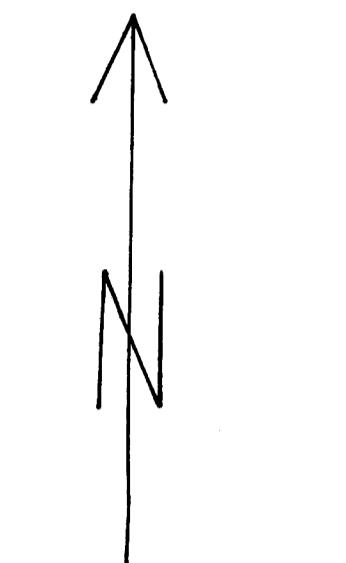
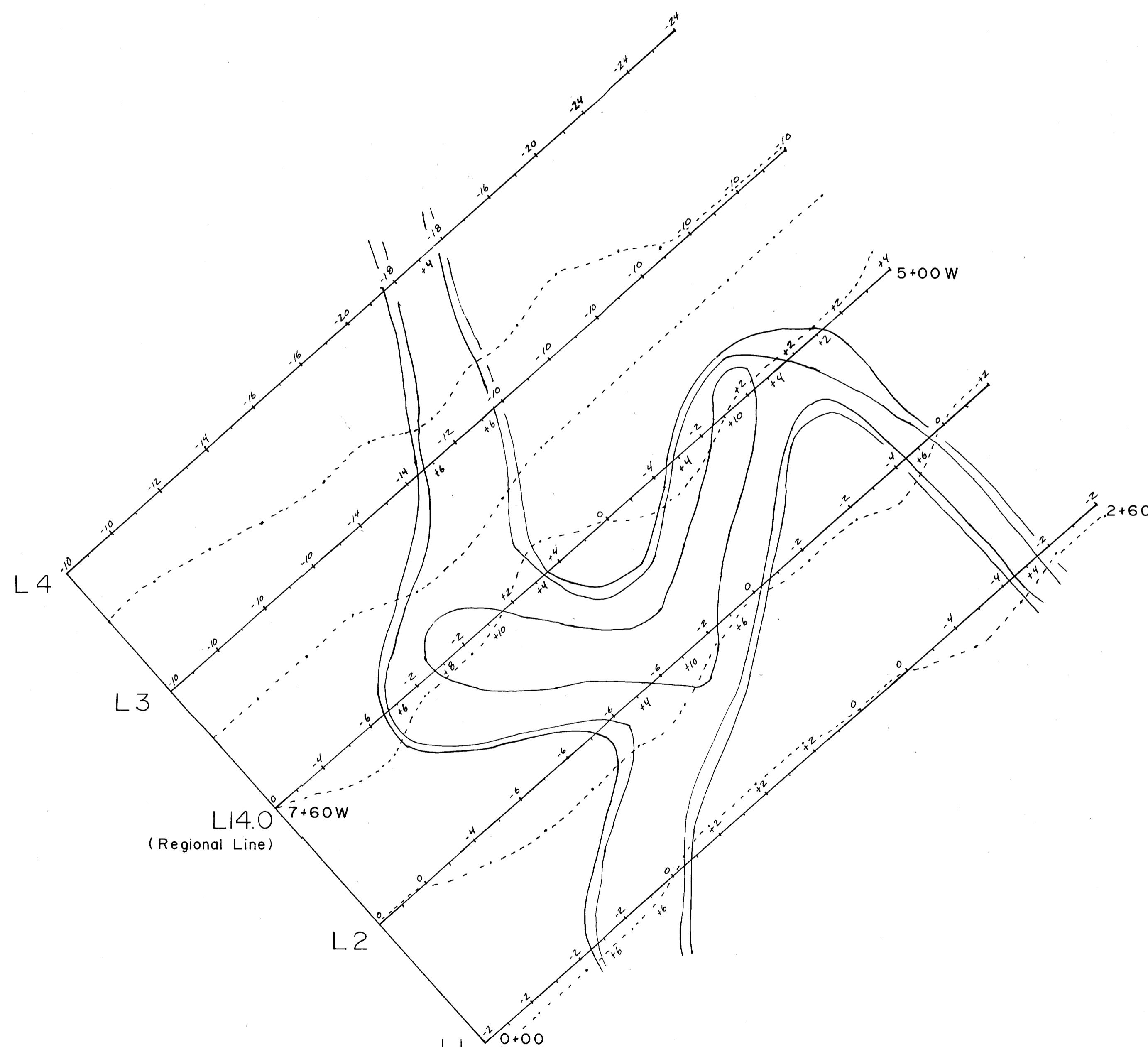
20 10 0 20 40 60 m
SCALE 1:1000



SCALE 1:100
0 1 2 3 4 m

PROPERTY: IKEDA		GEOLOGICAL BRANCH ASSESSMENT REPORT	
LOCATION:			
TYPE OF MAP:			
GEOLOGY			
WORKING PLACE:			
BASED ON: FIELD WORK by G.C.A.S.I.R.			
DATE OF WORK: OCT'84	MAP REF. NO.:	FIG. NO.:	
DRAWN BY: J.R.		6-2	
DATE: DEC. 84	N.T.S. NO.: 103B/6E		

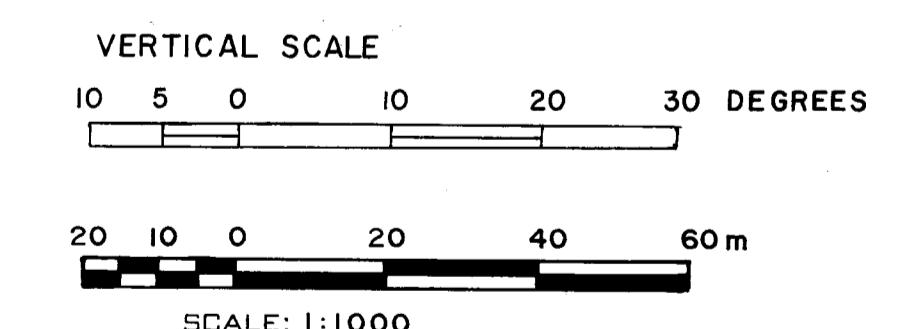
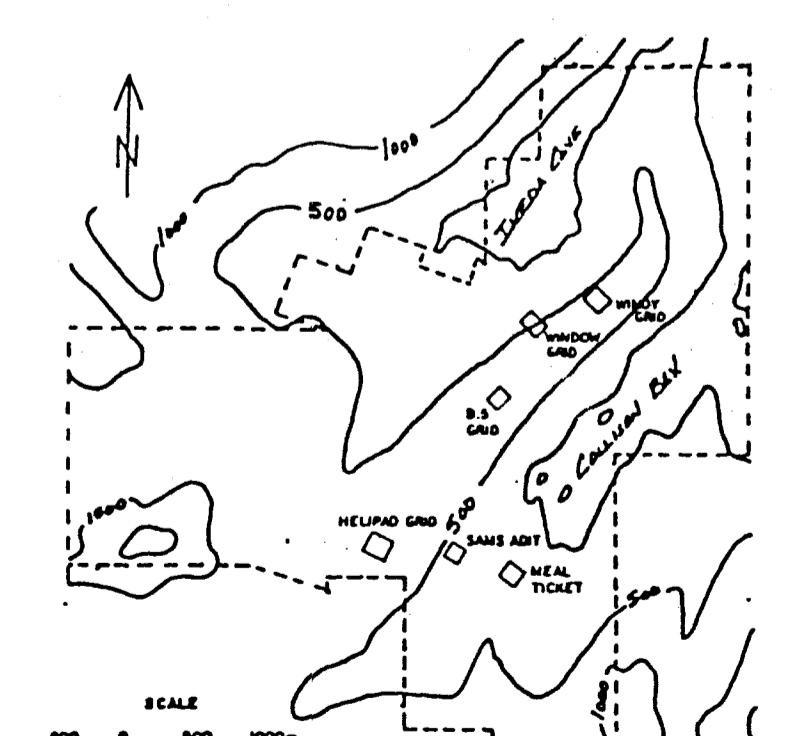
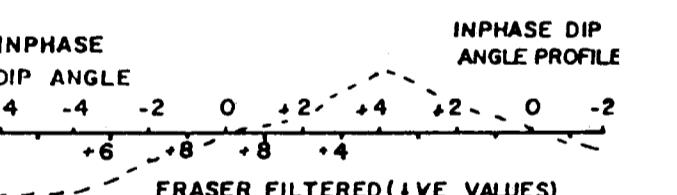
14,189
PART 203



RECEIVER: GEONICS LTD. VLF-E.M.16
ALL READINGS TAKEN FACING ~205°

TRANSMITTER: NAA 178 KHz
CUTLER, MAINE, U.S.A.

- FRASER FILTERED CONTOURS
- 0
 - +4
 - +8
 - +12
 - +16



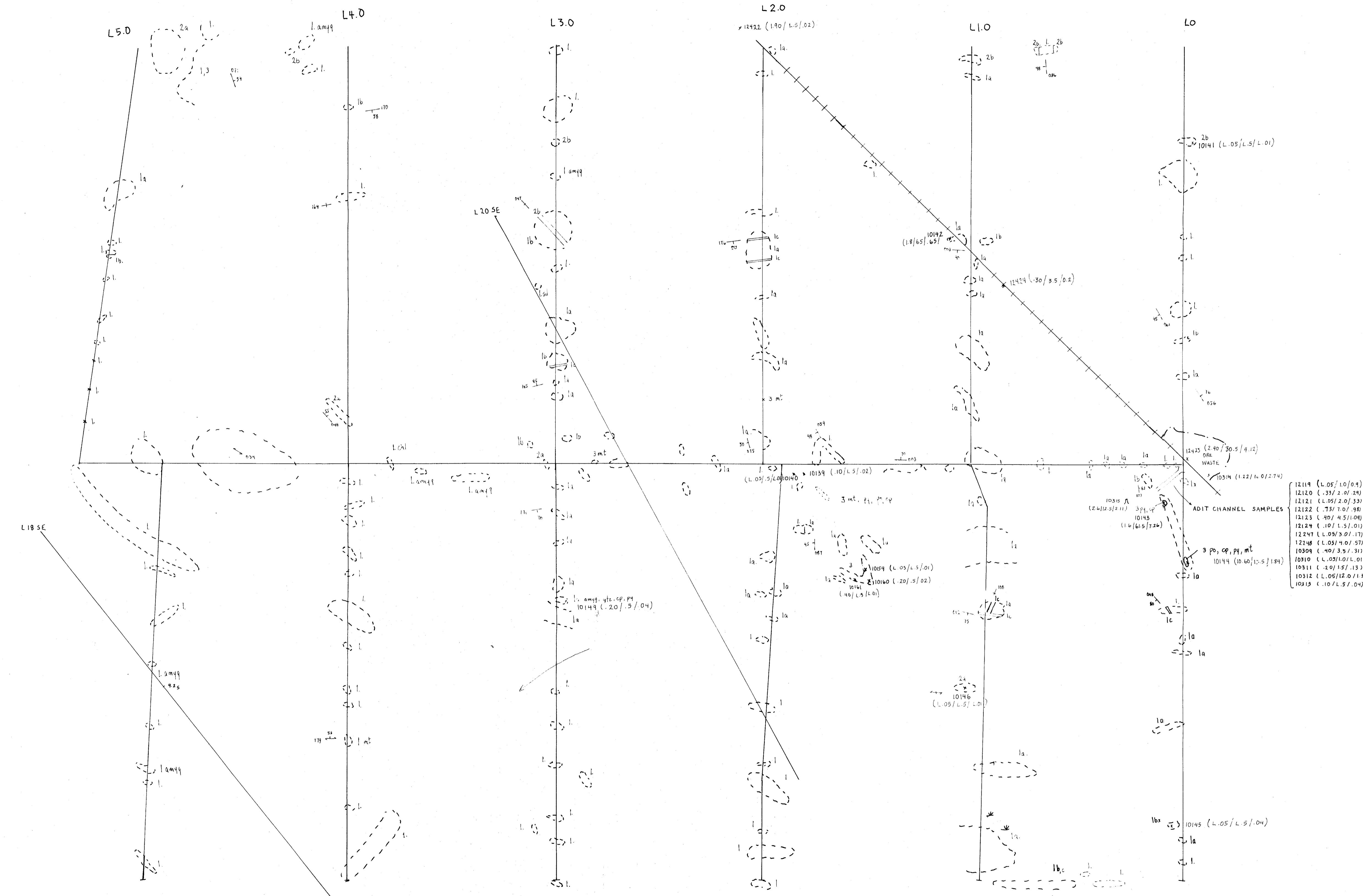
GEOLOGICAL BRANCH ASSESSMENT REPORT

FALCONBRIDGE LIMITED
PROPERTY: IKEDA
LOCATION: SAMS ADIT

TYPE OF MAP: V.L.F. - E.M.16 (INPHASE) FRASER FILTERED
PART 2 OF 3

14,189

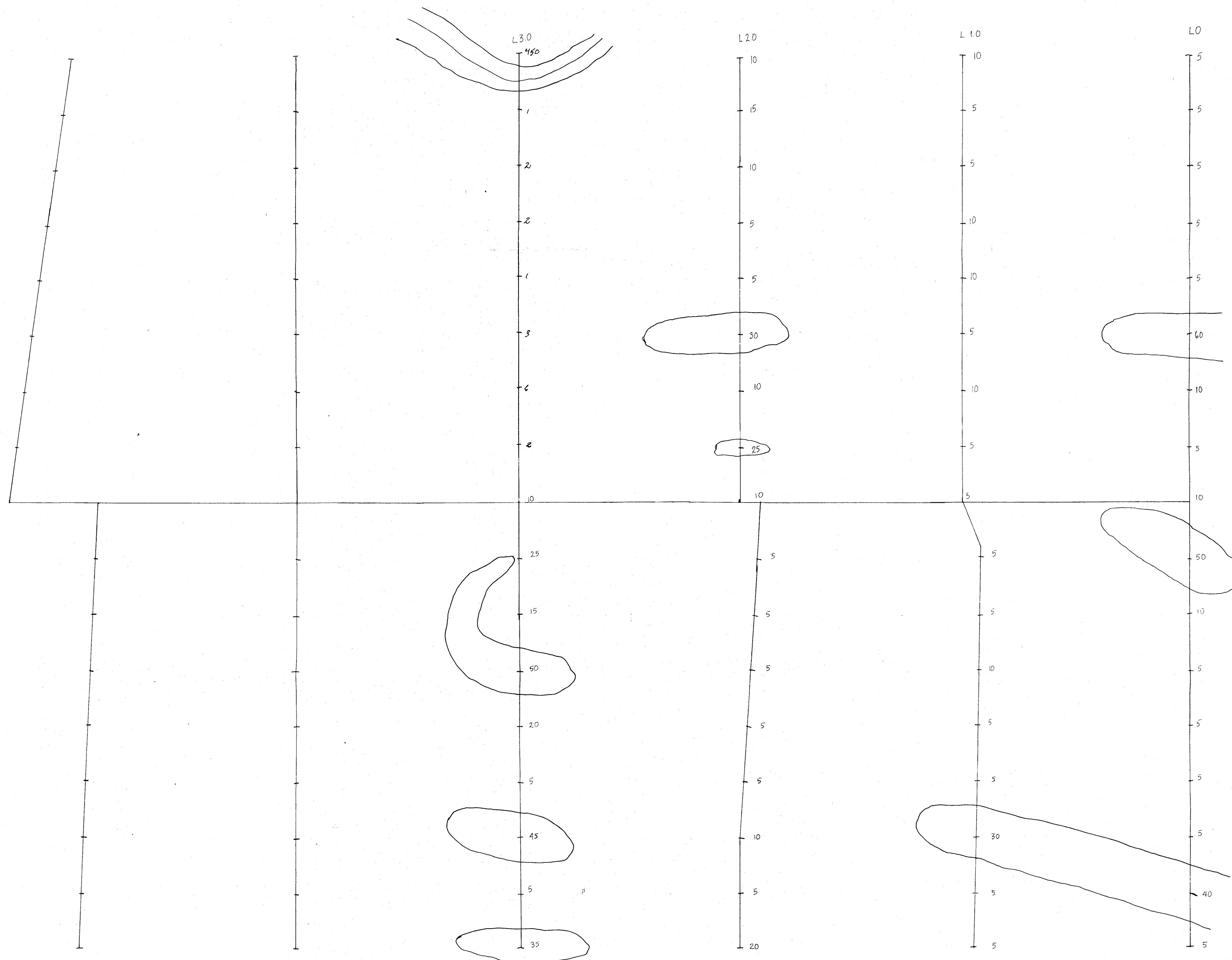
WORKING PLACE:
BASED ON: FIELD WORK BY G.C. B.J.R.
DATE OF WORK: OCT '84 MAP REF. NO.: FIG. NO.:
DRAWN BY: J.R.
DATE: FEB. 1985 N.T.S. NO.: 103B/6E
6-3



FALCONBRIDGE LIMITED		GEOLOGICAL BRANCH ASSESSMENT REPORT
PROPERTY:	IKE DA	
LOCATION:	MEALTICKET	
TYPE OF MAP:		
GEOLOGY	14,189	
WORKING PLACE:	PART 2 OF 3	
BASED ON: FIELD WORK by A.S.G.C.	DATE OF WORK: OCT 1984	MAP REF. NO.:
DRAWN BY: S.I.	APP.	3-1
DATE: DEC 84	N.T.S. NO.: 103 8/6 E	

MAP REF. NO.:

N.T.S.:



AU CONTOURS (ppb)

- 25
- 100
- 200

20 10 0 20 40
SCALE: 1:1000

PART
2 OF 3

FALCONBRIDGE LIMITED

PROPERTY:

IKEDA

GEOLOGICAL BRANCH
ASSESSMENT REPORT

LOCATION:

MEALTICKET

TYPE OF MAP:

AU GEOCHEMISTRY

WORKING PLACE:

BASED ON: Field work by M.C.

DATE OF WORK: 10/84

MAP REF. NO.:

DRAWN BY: S.I.

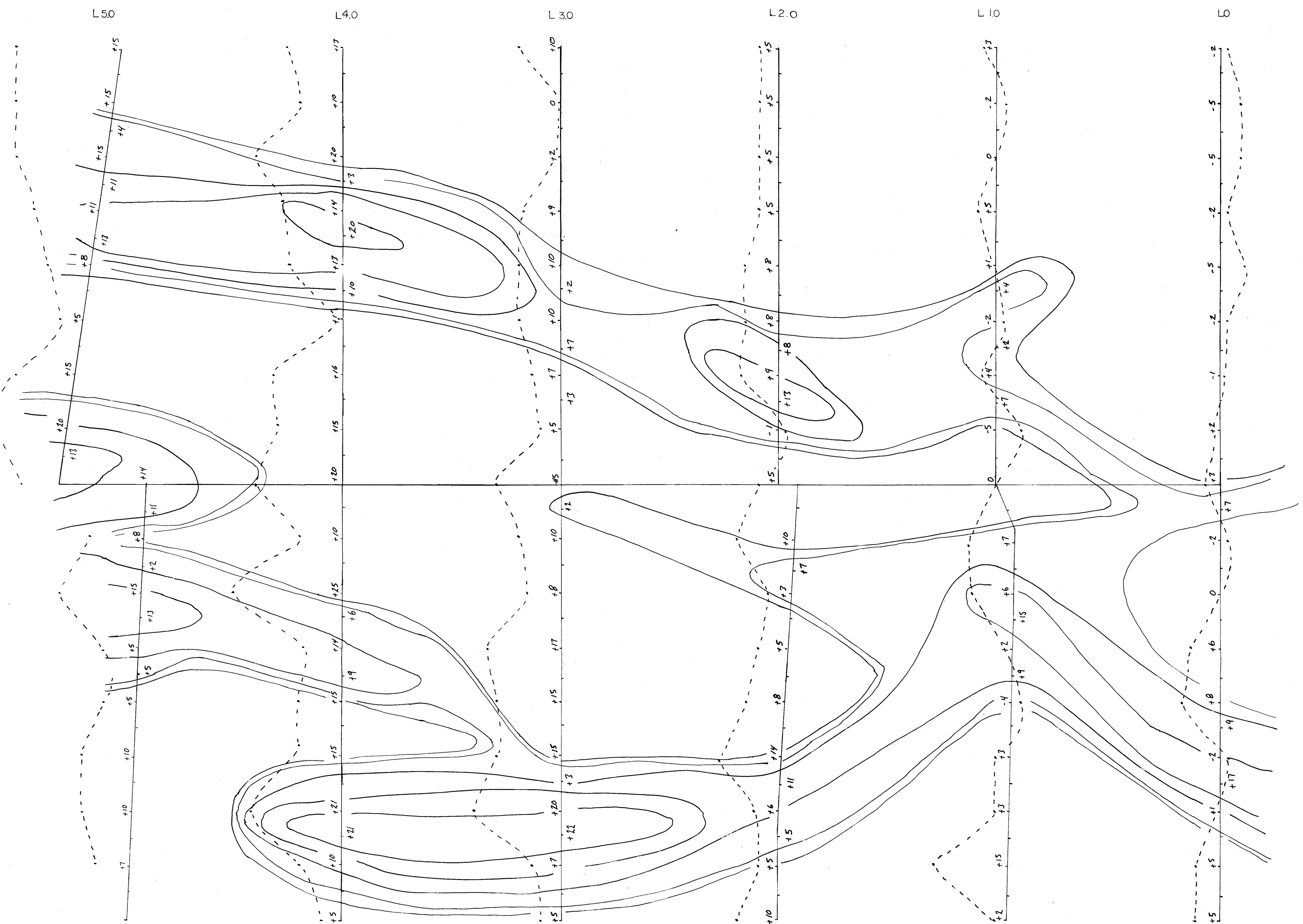
FIG. NO.:

DATE: 11/84

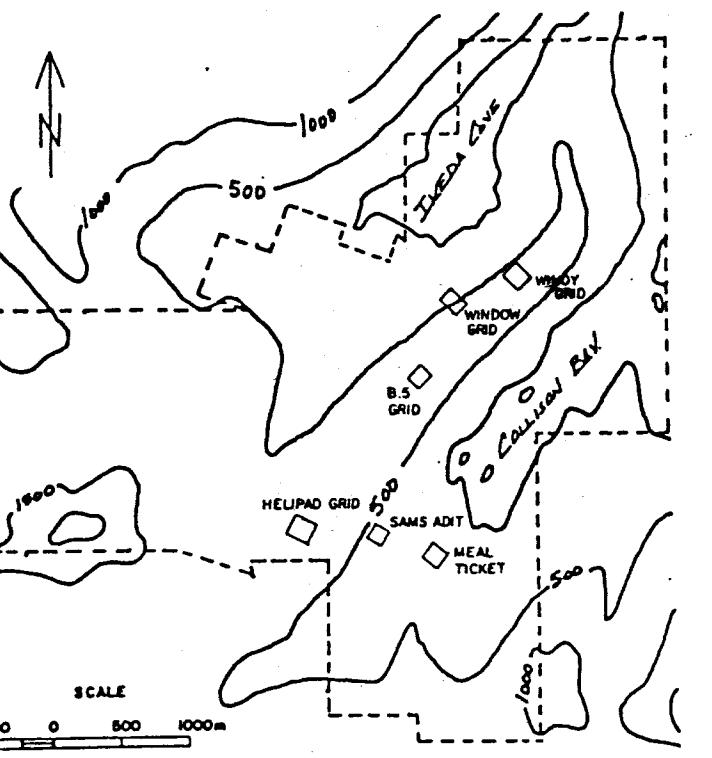
N.T.S. NO.: 103 B/6E

14,189

3-2

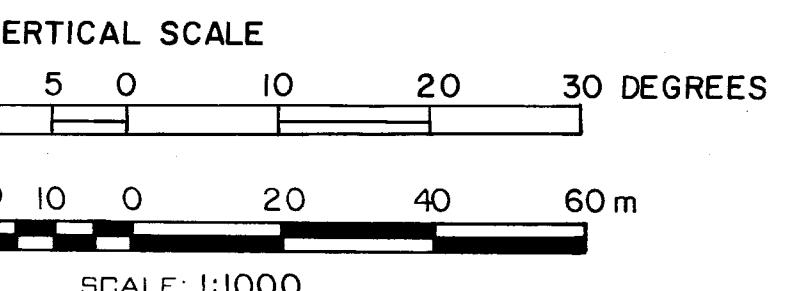
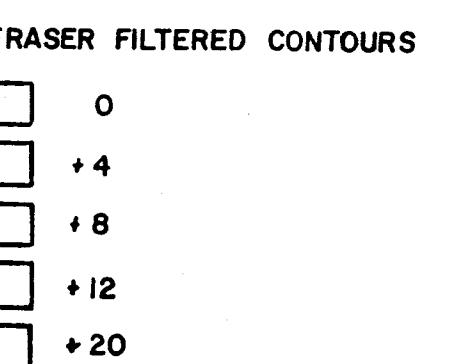
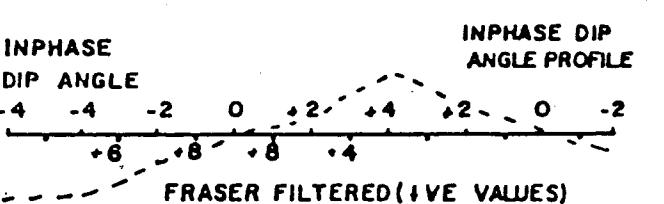


CUTLER, MAINE
DIRECTION OPERATOR-
INSTRUMENT FACING



RECEIVER: GEONICS Ltd. VLF-E.M.16
ALL READINGS TAKEN FACING ~205°

TRANSMITTER: NAA 17.8 kHz
CUTLER, MAINE, U.S.A.



GEOLOGICAL BRANCH ASSESSMENT REPORT

PROPERTY: IKEDA
LOCATION: MEALTICKET
TYPE OF MAP: VLF-E.M. (INPHASE) FRASER FILTERED
WORKING PLACE:
BASED ON: FIELD WORK BY M.C. & G.C.
DATE OF WORK: OCT 1984
DRAWN BY: J.R.
DATE: FEB. 1985
FIG. NO.: 7-3
N.T.S. NO.: 103B/6E

14,189
PART
2 OF 3