



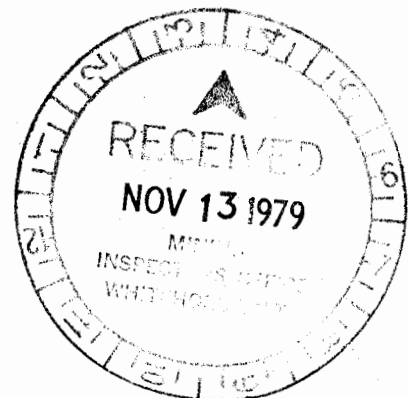
BEAR, TAB and ANT CLAIMS ASSESSMENT REPORT of  
Scintillometer Survey with Trenching and Geological Evaluation  
Performed Between June 1, and August 30, 1978

The BEAR, TAB and ANT Claims are Centered about  
67°56' North Latitude  
138°15' West Longitude  
on claim sheet 1160/16  
in the Dawson Mining District  
Yukon Territory



by D. NOAKES

090507



this edge is  
68°00'

138°15'

this edge is  
68°00'

# BEAR, ANT and TAB CLAIMS A SCINTILLOMETER SURVEY WITH TRENCHING AND GEOLOGICAL EVALUATION

this sketch is a tracing  
from the North Center of  
1160/16, "Old Crow"  
scale 1:50,000



### Legend

- Scintillometer anomalies X (value) ie (400)
- Trench T-1 to T-7
- ASSAY LOCATION ASSAY #
- MINERALIZATION Type A, B, C, Cu (see text)

### Key to Geology

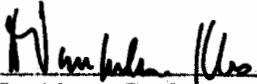
Symbol	Formation	Age	Lithology
EDr (ch)	Road River	Ordovician to Devonian	chert minor shale
EDr (sh)	Road River	Ordovician to Devonian	shale and quartzite
EDr (blsh)	Road River	Devonian or younger	black shale

138°15'

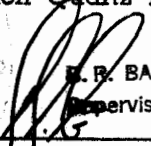
68°52.5' N

FIGURE 2

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 4000

  
\_\_\_\_\_  
Resident Geologist or  
Resident Mining Engineer

Considered as representation work under  
Section 53 (4) Yukon Quartz Mining Act.

  
\_\_\_\_\_  
E. B. BAXTER  
Supervising Mining Recorder  
Commissioner of Yukon Territory

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2. Radiometric Anomaly, Trench and Assay Sample Locations on the BEAR, TAB and ANT Claims with Geological Units.

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- B. Details of Items Claimed as Assessment Expenditures

## 1.0 INTRODUCTION

The BEAR, ANT and TAB claims were staked by Aquitaine Company of Canada in 1977 to cover radioactive occurrences. These three claim groups lie within 2 km of each other, cover similar occurrences and were staked and explored together so have been treated together in this report.

Early in the summer of 1977 an airborne gamma-ray spectrometer survey was conducted over the area including the BEAR, ANT and TAB claims. Areas shown to be anomalous were prospected including the use of scintillometers, and as a result the BEAR, ANT and TAB claims were staked. In 1978 confirming and follow-up scintillometer surveys with shallow trenching and sampling were made and this report serves to document that work and its value as assessment work.

## 2.0 CLAIM LOCATIONS AND STATUS

The BEAR, ANT and TAB claims are clustered about the point 67°56' north latitude, 138°15' west longitude on claim sheet 1160/16 in the Dawson Mining District of the Yukon Territory (see fig. 1). Details of the status of these claims is listed below:

<u>Claim Name</u>	<u>Tag Numbers</u>	<u>Number of Claims</u>	<u>Staking Date</u>	<u>Recording Date</u>	<u>Expiry Date</u>
BEAR 1 to 32	YA-10780 to YA-10811	32	20.8.77	29.9.77	29.9.77
TAB 1 to 6	YA-10812 to YA-10817	6	20.8.77	29.9.77	29.9.77
ANT 1 to 2	YA-10818 & YA-10819	2	20.8.77	29.9.77	29.9.77

Application for a certificate of work to renew each of these 40 claims for 1 year was filed making the expiry date as listed. Documentation of the costs of work performed is included as appendices.

### 3.0 SCINTILLOMETER SURVEY WITH TRENCHING AND GEOLOGICAL EVALUATION

#### 3.1 Introduction.

Scintillometer surveys with trenching and geologic evaluation were used to examine the BEAR, ANT and TAB claims. Original anomalies were detected by airborne gamma-ray spectrometer survey and ground prospecting revealed that anomalous areas were significant, should be staked and deserved further study.

All of these claims are treated together in this report but costs incurred in exploration have been allotted according to the time spent in that area. Considerable additional prospecting time, etc. thus costs were spent in examining these claims. Documentation of time and costs claimed as assessment work are detailed as appendices.

#### 3.2 Results.

Systematic scintillometer surveys confirmed anomalous areas indicated by airborne survey and located several additional anomalies (see fig. 2 for locations). Values ranged up to 10x background values (up to 700 c/s using SPP-2 scintillometer). Trenches were dug through felsenmeer and soil in 6 locations, as noted in fig. 2, in an attempt to examine mineralized bedrock. Trenches at locations 1, 2 and 3 were 0.5 to 1 meter deep and 1 to 1.5 meters in horizontal dimensions while those at locations 4, 5, 6 and 7 were of approximately the same horizontal dimensions but from 1 to 1.5 meters deep. Samples were collected from some of these sites (see locations on fig. 2) with assay results as follows:

#### ROCK ASSAYS

CLAIM NAME	TRENCH NUMBER	SAMPLE NUMBER	Oz/ton Au	Oz/ton Ag	%U <sub>3</sub> O <sub>8</sub>	%ThO <sub>2</sub>	%Cu
BEAR	6	928	.005	.08	.007	trace	.08
BEAR		929	trace	.04	.006	trace	.05
BEAR		930	trace	.016	.007	trace	.07
ANT	2	935	-	-	.012	-	-

ROCK ASSAYS Cont'd.

CLAIM NAME	TRENCH NUMBER	SAMPLE NUMBER	%U <sub>3</sub> O <sub>8</sub>	%Cu	%Ni	%Zn	%V	%Mm	%ThO <sub>2</sub>	%P <sub>2</sub> O <sub>5</sub>	% F	% C
TAB	1	978	.008	trace	trace	trace	trace	trace	.009	21.51	.5	.29

SOIL ASSAYS

CLAIM NAME	TRENCH NAME	SAMPLE NUMBER	ppmU <sub>3</sub> O <sub>8</sub>
BEAR	4	C15	96.2
BEAR	5	C25	171.0

Uranium mineralization was noted to be of 3 types and an occurrence of copper was observed. Type of occurrence is indicated on fig. 2 at each anomaly site.

Type A occurrences were thought to be uranium concentrations in phosphate-rich rock usually observed as intraformational conglomerates. Adjacent beds were black to grey shales, black to grey thin bedded cherts or siltstones; all of the Road River formation. Scintillometer anomalies ranged up to 700 c/s (SPP-2 instrument) at this type of occurrence. Uranium concentrations were thought to have developed during sedimentation of host sediments. Copper concentrations were noted on fractures in these units.

Type B occurrences were uranium concentrations in siltstone-shale beds of medium thickness interbedded with cherts of the Road River formation. These beds could be followed laterally for considerable distances. Scintillometer anomalies up to 350 c/s (SPP-2 instrument) were noted at this type of occurrence. As with type A, uranium concentrations were thought to have been trapped during sedimentation.

Type C occurrences were located in black shale units thought to overly the Ordovician-Silurian Road River, and were tentatively assigned to the Devonian. Radiometric anomalies ranged up to 450 c/s (using

SPP-2 instrument) in these units.

Copper occurrences were noted as prominent oxide coatings on fracture surfaces primarily on bedded cherts of the Road River formation. No source for this remobilized copper was found and it is thought to have originated from stratigraphically younger rocks.

### 3.3 Conclusions and Recommendations.

Uranium and copper concentrations have been found in several different geologic environments. None of the described occurrences are significant and thus they deserve little further attention. However, enrichment involving each of these occurrences is possible and each could indicate the presence of zones of higher concentration. A source for the copper oxides noted has yet to be identified.

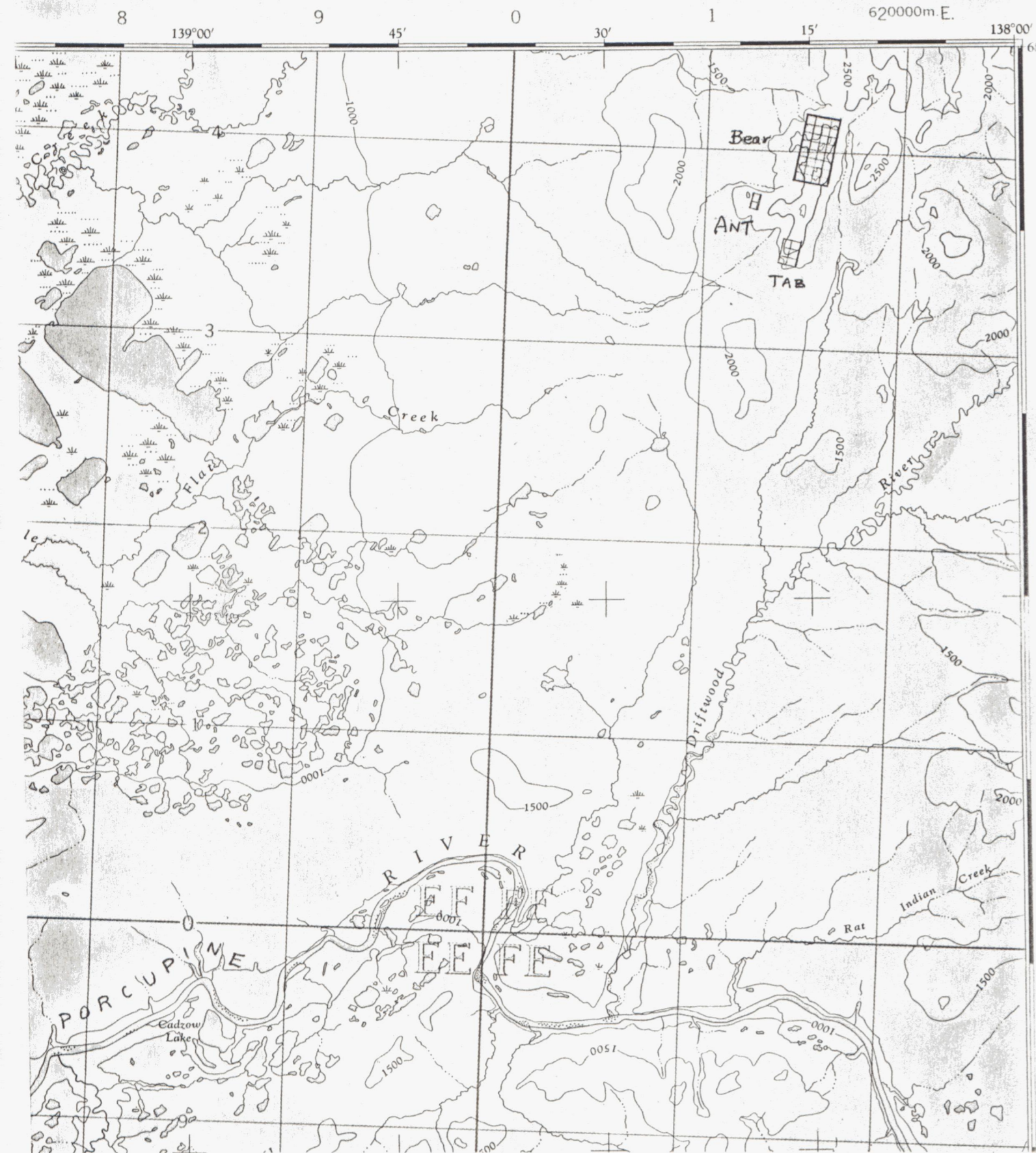
In light of these potentialities, it is recommended that each occurrence be followed laterally to determine its extent and that further examinations be made in an attempt to locate a source for the copper mineralization noted. Trenching stream sediment and soil sampling surveys will be useful where rock is obscured by overburden.



Bear, Ant and Tab Mineral Claims  
Location Map  
Aquitaine Co of CANADA LTD.

NE 1/4 of  
116-O & 116N 1/2

620000m E.



scale 1: 250,000  
1cm = 2.5 km

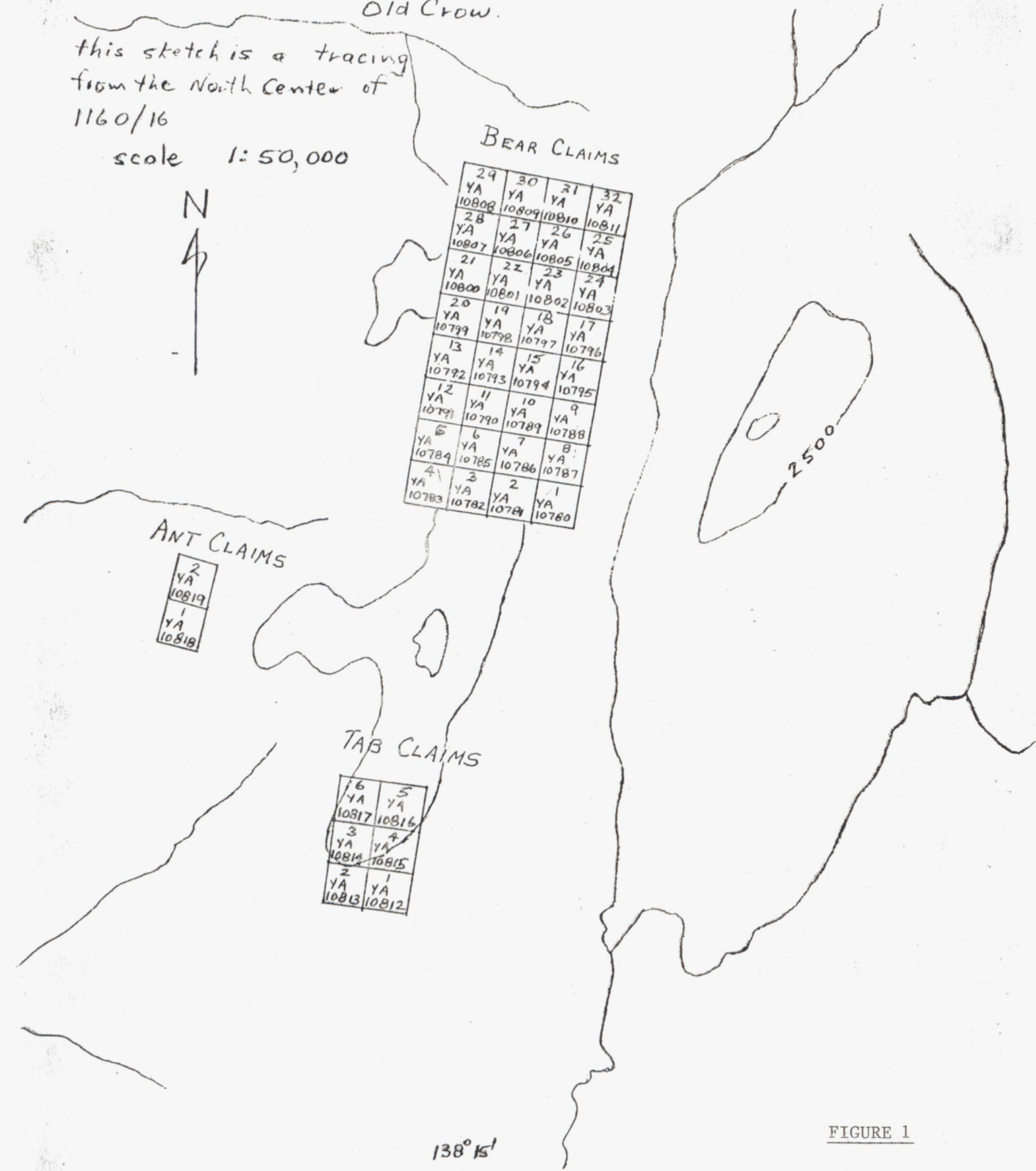
this edge is  
68°00'

this edge is  
68°00'

Overlay to locate the BEAR, ANT, TAB CLAIMS  
on a 1:50,000 scale enlargement from 116 0  
Old Crow.

this sketch is a tracing  
from the North Center of  
1160/16

scale 1: 50,000



BEAR CLAIMS

24	30	31	32
YA	YA	YA	YA
10808	10809	10810	10811
28	27	26	25
YA	YA	YA	YA
10807	10806	10805	10804
21	22	23	24
YA	YA	YA	YA
10800	10801	10802	10803
20	19	18	17
YA	YA	YA	YA
10799	10798	10797	10796
13	14	15	16
YA	YA	YA	YA
10792	10793	10794	10795
12	11	10	9
YA	YA	YA	YA
10791	10790	10789	10788
6	6	7	8
YA	YA	YA	YA
10789	10785	10786	10787
4	3	2	1
YA	YA	YA	YA
10783	10782	10781	10780

ANT CLAIMS

2
YA
10819
1
YA
10818

TAB CLAIMS

6	5
YA	YA
10817	10816
3	4
YA	YA
10814	10815
2	1
YA	YA
10813	10812

138° 15'

68° 52.5' N

FIGURE 1

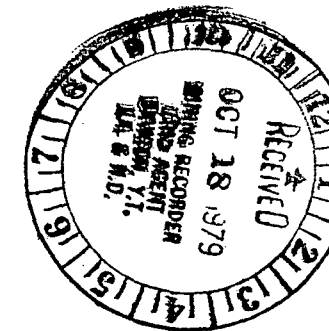
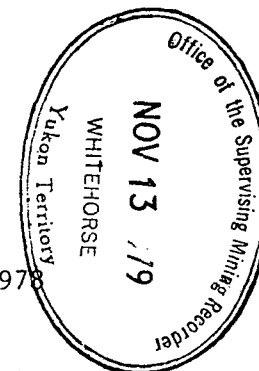
Figures to Accompany:  
A Report on the BON Claims, Yukon Territory, 1978



FIGURES

1	TIE and BON Mineral Claims	in pocket A	14C	Radon Survey (Alpha Meter) Line 0 South; 100 West to 250 East	in pocket E
2	Property Location Map	in pocket A	14D	Radon Survey (Alpha Meter) Line 0 South; 260 East to 680 East	in pocket E
3	Grid Position on the BON Claims	in pocket A	14E	Radon Survey (Alpha Meter) Line 0 South; 700 East to 810 East	in pocket E
4A	Geology of a Portion of BLOW River, NTS-117A Including the BON and TIE Claims	in pocket B	14F	Radon Survey (Alpha Meter) Line 1 North; 150 West to 300 East	in pocket E
4B	Legend to Accompany "Geology of a Portion of BLOW RIVER, N.T.S.-117A"	in pocket B	14G	Radon Survey (Alpha Meter) Line 2 North; 70 West to 200 East	in pocket E
5	Geology of a Showing on the BON Claims, Yukon Territory	in pocket B	14H	Radon Survey (Alpha Meter) Line 5 North; 40 West to 230 East	in pocket E
6A	Geological Cross-Section Along Line 0 North Through a Showing on the BON Claims, Yukon Territory	in pocket B	15A	Grid Position on the BON Claims of 1978 Radon Survey Utilizing the EDA Emanometer	in pocket E
6B	Geological Cross-Section Along Line 800 South Through a Showing on the BON Claims, Yukon Territory	in pocket B	15B	Radon Survey (Emanometer) Line 3 South; 350 West to 50 West	in pocket E
6C	Geological Cross-Section Along Line 300 North Through a Showing on the BON Claims, Yukon Territory	in pocket B	15C	Radon Survey (Emanometer) Line 3 South; 50 West to 250 East	in pocket E
6D	Geological Cross-Section Along Line 100 East Through a Showing on the BON Claims, Yukon Territory	in pocket B	15D	Radon Survey (Emanometer) Line 3 South; 250 East to 310 East	in pocket E
7	Grid Position on BON Claims of Induced Polarization Survey, 1978	in pocket C	15E	Radon Survey (Emanometer) Line 0 North; 100 West to 150 East	in pocket E
8	Induced Polarization Survey, Apparent Resistivity Plan, Bonnet Lake, Yukon Territory	in pocket C	15F	Radon Survey (Emanometer) Line 0 North; 150 East to 450 East	in pocket E
9	Induced Polarization Survey, Chargeability Plan, Bonnet Lake, Yukon Territory	in pocket C	15G	Radon Survey (Emanometer) Line 0 North; 450 East to 800 East	in pocket E
10	Test I.P. and Resistivity, BON Claims, Yukon Territory Line 0+00	in pocket C	16	A Scintillometer Survey Over a Showing on the BON Claims, 1977	in pocket F
11	Grid Position on BON Claims of Soil Surveys 1978	in pocket D	17	Comparison of Concentrations of Selected Elements From Mineralized Felsenmeer Samples, BON Claims, Yukon Territory, 1978	in pocket F
12A	Profile of U <sub>3</sub> O <sub>8</sub> Content of Soil Samples Line 0 North BON Claims Grid, Y.T.	in pocket D			
12B	Profile of U <sub>3</sub> O <sub>8</sub> Content of Soil Samples Line 300 South	in pocket D			
13	Soil Sampling Survey, U <sub>3</sub> O <sub>8</sub> Content vs P <sub>2</sub> O <sub>5</sub> content, BON Claims Showing	in pocket D			
14A	Grid Position on the BON Claims of 1978 Radon Survey Utilizing Alpha Meters	in pocket E			
14B	Radon Survey (Alpha Meter) Line 1 South; 300 West to 70 East	in pocket E			

Figures to Accompany:  
A Report on the BON Claims, Yukon Territory, 1978

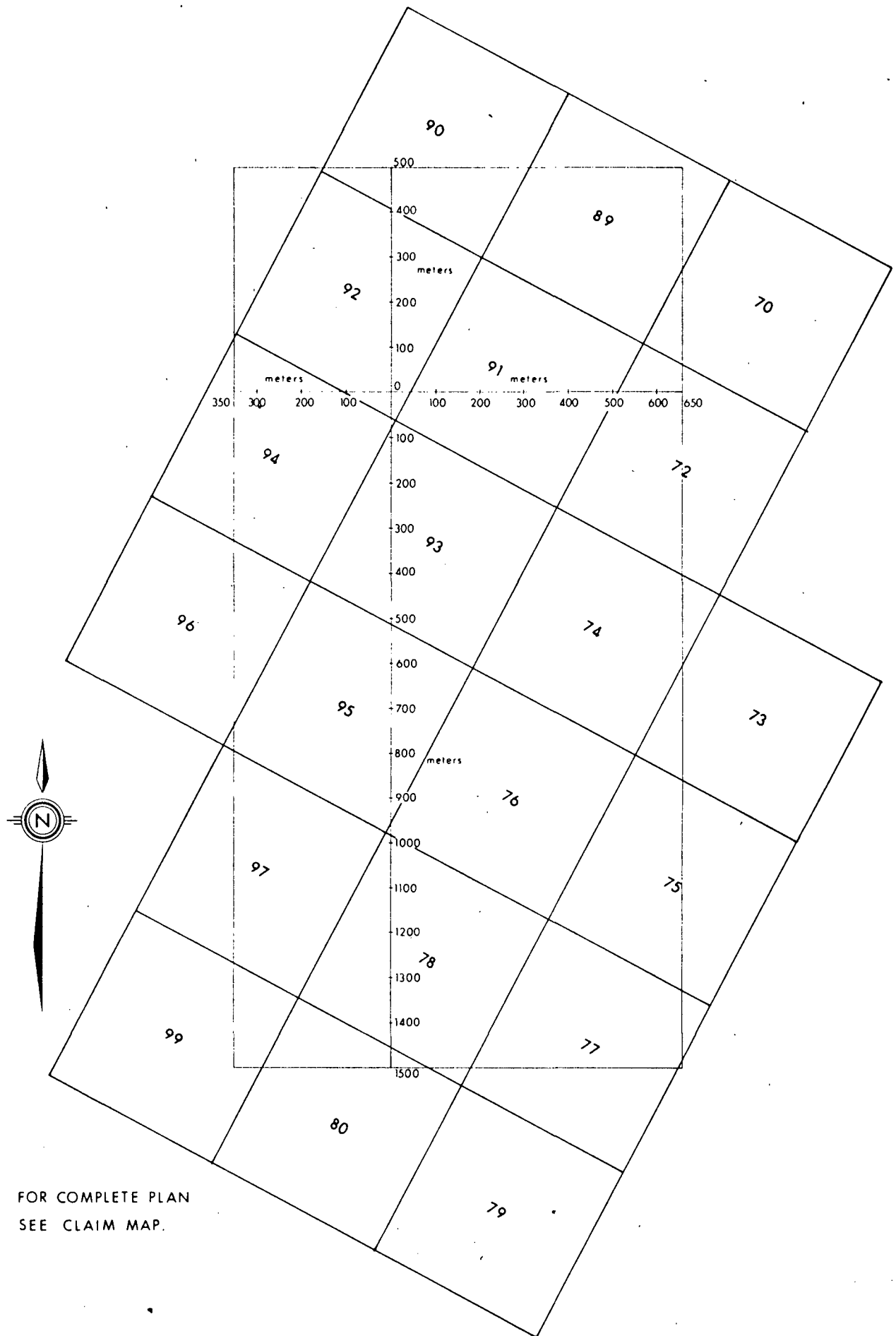


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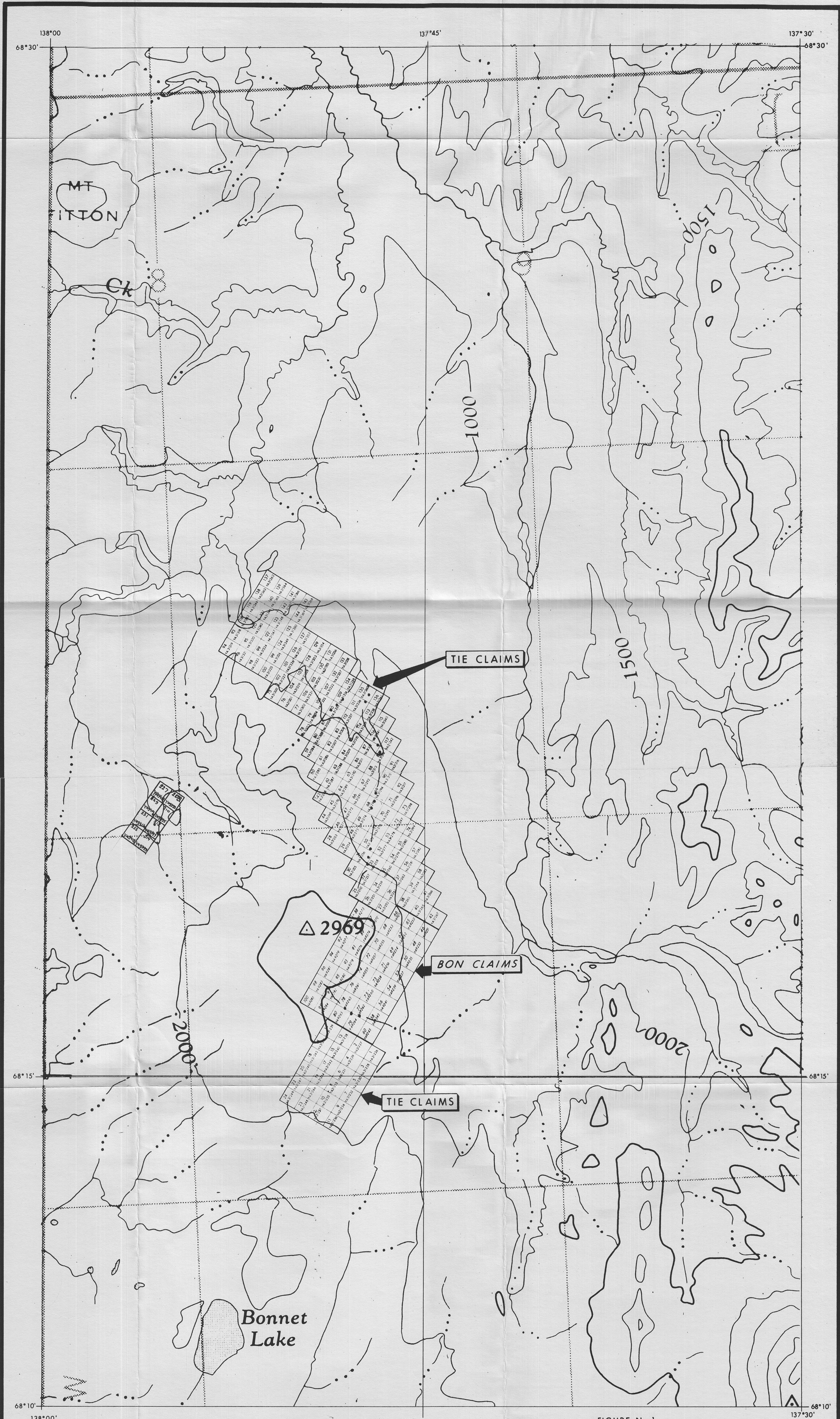


GRID POSITION ON BON CLAIMS



FOR COMPLETE PLAN  
SEE CLAIM MAP.

Fig. No: 3



SCALE 1 : 50,000

1 1/4 inch to 1 mile approximately

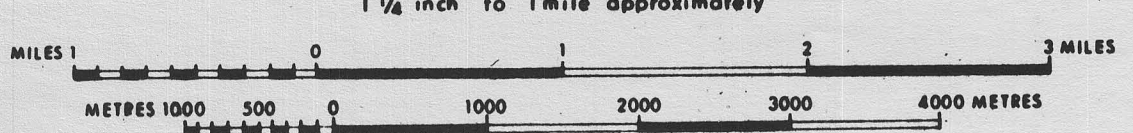


FIGURE No. 1

**AQUITAINE COMPANY OF CANADA LTD.**

**YUKON TERRITORY**  
**MAP SHEET 117A/7 & 117A/2**  
**STAKING SKETCH SHOWING**  
**TIE AND BON MINERAL CLAIMS**

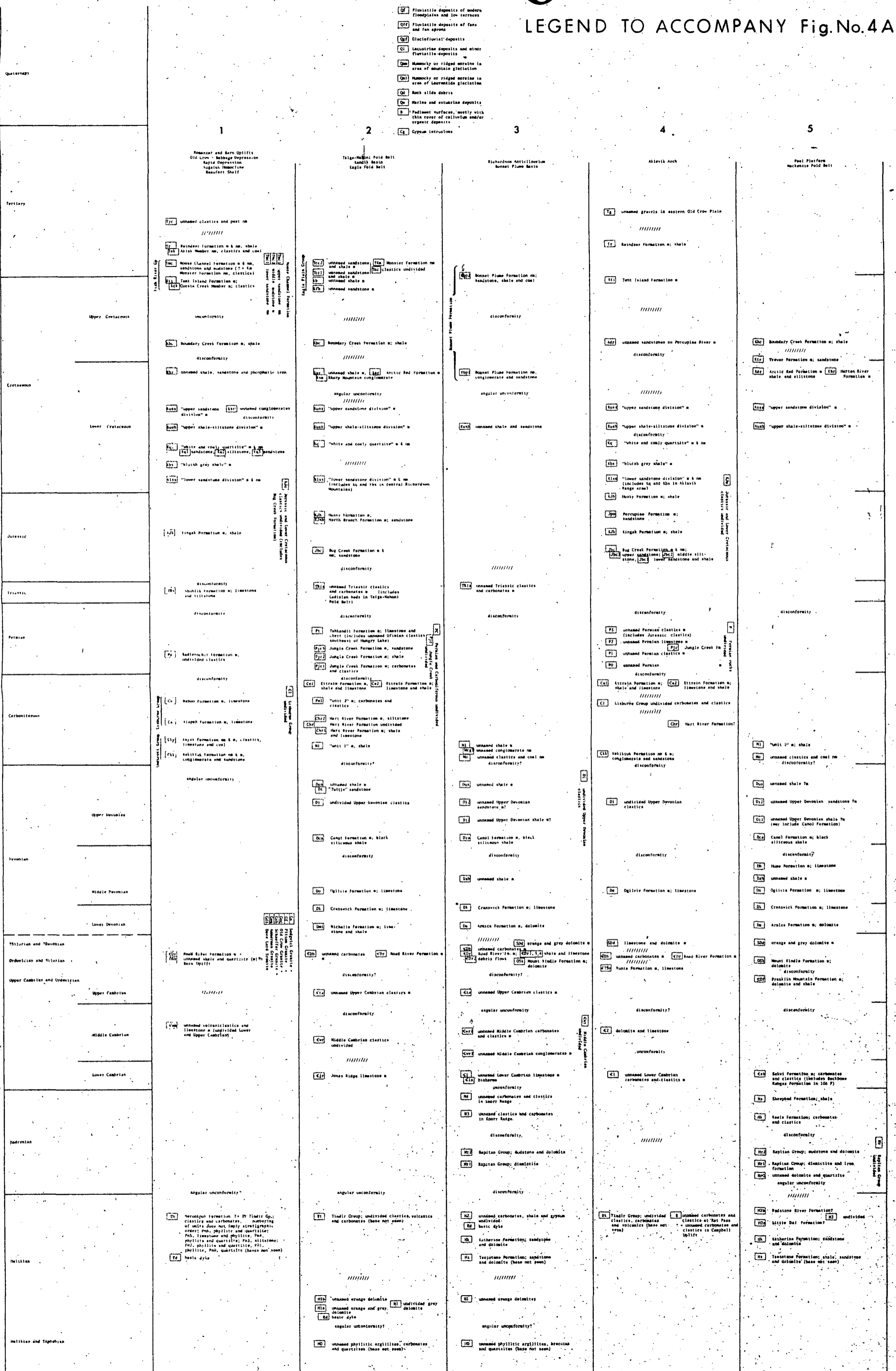
DATE: AUGUST 1978      SCALE: 1:50,000

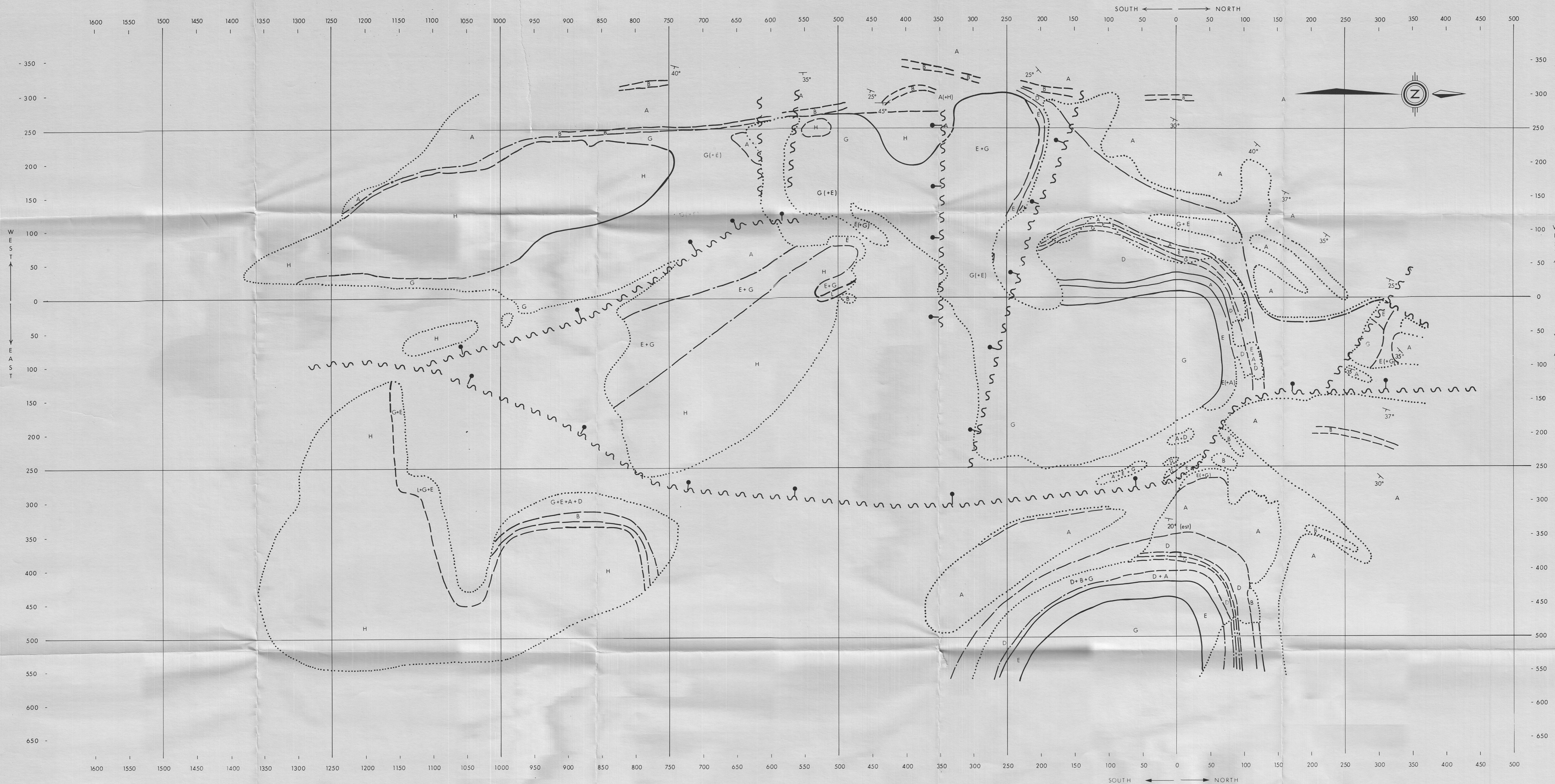




LEGEND TO ACCOMPANY Fig.No.4A

- COMPOSITE LEGEND  
OPERATION PORCUPINE PROJECT AREA
- QF Fluvial deposits of modern floodplains and low terraces
  - QV Fluvial deposits of fans and fan aprons
  - QW Glaciofluvial deposits
  - QI Lacustrine deposits and other fluvial deposits
  - Qm Mucky or ridged moraine in area of mountain glaciation
  - Qm1 Mucky or ridged moraine in area of Laurentide glaciation
  - Qd Rock slide debris
  - Qe Marine and estuarine deposits
  - P Padiment surfaces, mostly with thin cover of colluvium and/or organic deposits
  - Cg Gypsum intrusions





**LEGEND**

- JURASSIC
- LOWER JURASSIC OR YOUNGER
- MESOZOIC
  - H** KINGAK FORMATION (LOWER MEMBER)
  - Sandstone, fine grained, carbonaceous, weathers dark grey to brown
- CARBONIFEROUS
- UPPER CARBONIFEROUS (?)
  - L** Chert fragment conglomerate / breccia, weathers dark grey to black
  - G** Chert pebble conglomerate / breccia, weathers light grey to white
  - E** Porcellanite, porous fine grained, kaolinized (?) weathers dull white
- PALEOZOIC
  - D** Sandstone, rusty recessive weathering
  - LOWER CARBONIFEROUS
  - KAYAK FORMATION (UPPER MEMBER)
    - B** Shale, black, recessive weathering, interbedded with A or D
    - A** Sandstone, quartzose, resistant, weathers light grey

OBSERVED ONLY AS FELSEMEER

**KEY TO SYMBOLS**

- Geologic contact - (defined)
- - - Geologic contact - (approximate)
- · - · - Geologic contact - (inferred)
- ..... Limit of significant felsemeer cover
- ~ Fault (approximate)
- ~ Fault (inferred)

**NOTE**

Geology has been inferred from observation of felsemeer cover. Downslope movement, mechanical mixing and variable weathering characteristics etc. of felsemeer tend to unavoidably mask or displace geologic contacts. Consequently, all geologic contacts have been only indirectly observed, and thus the degree of certainty of geologic contacts as noted in the "Key to symbols" is one step removed from the degree of certainty that would be normally associated with these symbols.

As detailed topographic information is not available for the map area see cross-sections for geological interpretation. Only one unit was seen in outcrop and the rest were observed only as felsemeer. Outcrop of unit A is present sparsely along the northwest rim of this map as illustrated by structural data. For base information refer to "Felsemeer map of A showing on the Bon Claims."

**INDEX MAP**

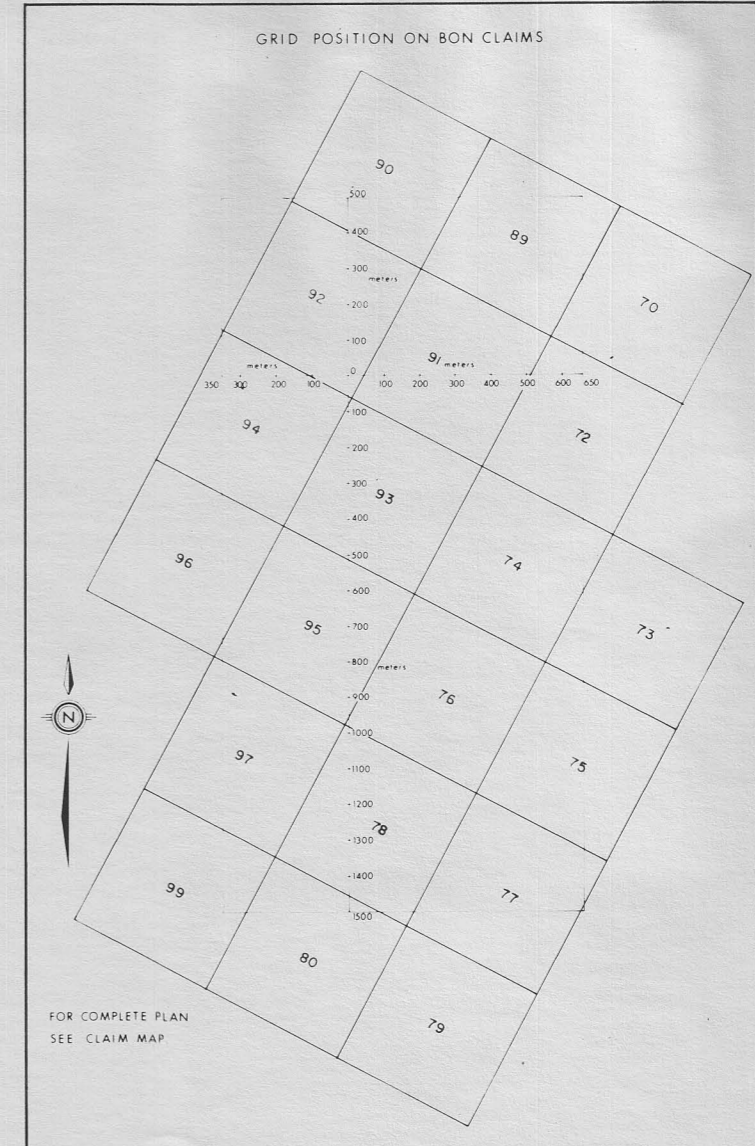
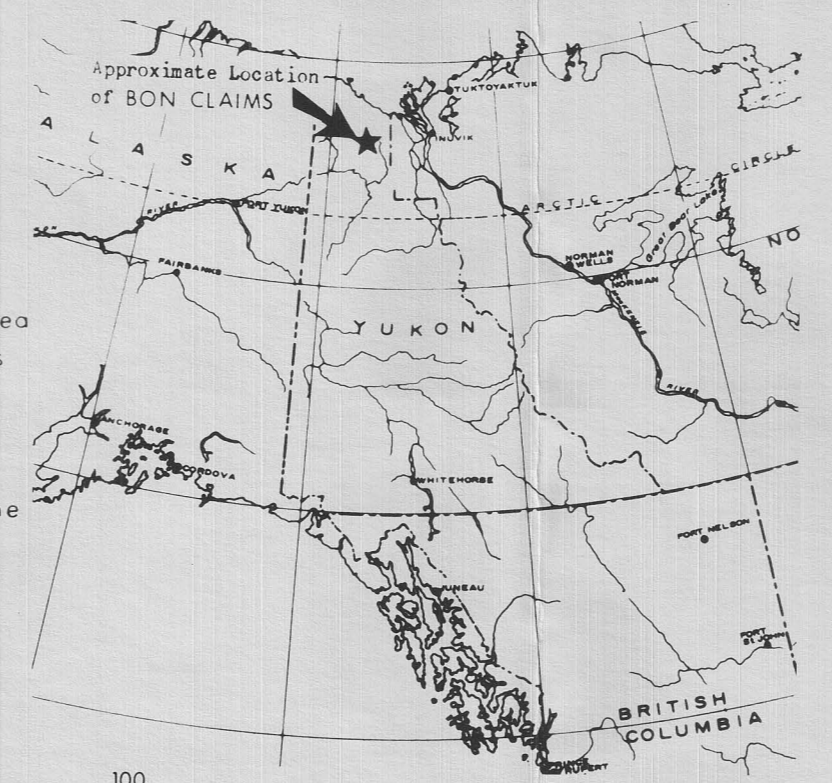


Fig. No. 5

**AQUITAINE COMPANY OF CANADA LTD.**

**GEOLOGY OF A SHOWING ON THE BON CLAIMS YUKON TERRITORY**

Scale: 1:2,500 or 1cm = 25m Date: August 1978



**AQUITAINE COMPANY OF CANADA LTD.  
GEOLOGICAL CROSS-SECTION  
ALONG LINE 100 E. THROUGH  
A SHOWING ON THE BON CLAIMS  
YUKON TERRITORY, 1978**

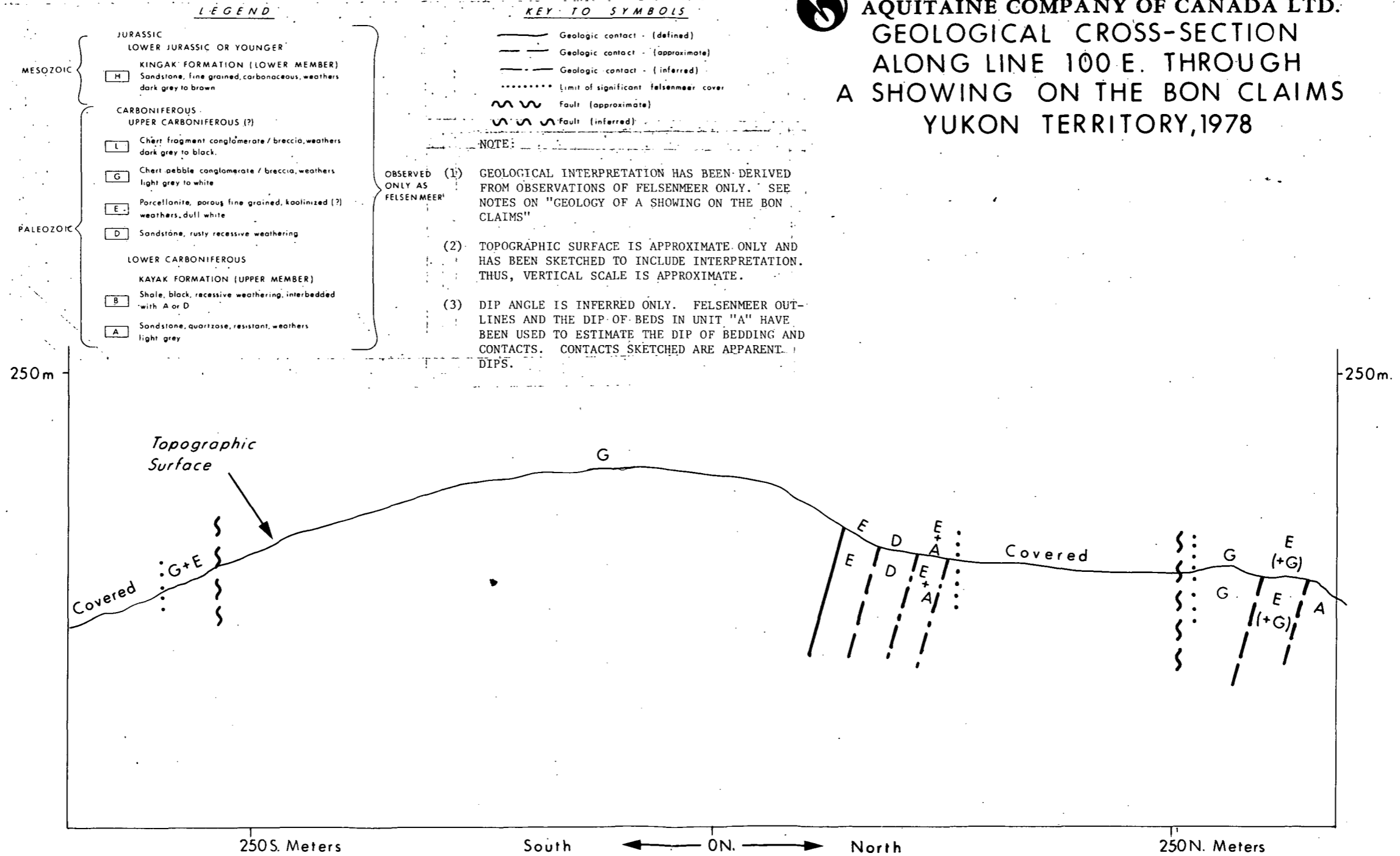


Fig. No. 6 D

LEGEND

MESOZOIC	JURASSIC LOWER JURASSIC OR YOUNGER	OBSERVED ONLY AS FELSENMEER
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">H</div> KINGAK FORMATION (LOWER MEMBER) Sandstone, fine grained, carbonaceous, weathers dark grey to brown	
PALEOZOIC	CARBONIFEROUS UPPER CARBONIFEROUS (?)	OBSERVED ONLY AS FELSENMEER
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">L</div> Chert fragment conglomerate / breccia, weathers dark grey to black	
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">G</div> Chert pebble conglomerate / breccia, weathers light grey to white	
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">E</div> Porcellanite, porous fine grained, kaolinized (?) weathers dull white	
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">D</div> Sandstone, rusty recessive weathering	
	LOWER CARBONIFEROUS KAYAK FORMATION (UPPER MEMBER)	
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">B</div> Shale, black, recessive weathering, interbedded with A or D	
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">A</div> Sandstone, quartzose, resistant, weathers light grey	

KEY TO SYMBOLS

	Geologic contact - (defined)
	Geologic contact - (approximate)
	Geologic contact - (inferred)
	Limit of significant felsenmeer cover
	Fault (approximate)
	Fault (inferred)

- NOTE:
- (1) GEOLOGICAL INTERPRETATION HAS BEEN DERIVED FROM OBSERVATIONS OF FELSENMEER ONLY. SEE NOTES ON "GEOLOGY OF A SHOWING ON THE BON CLAIMS"
  - (2) TOPOGRAPHIC SURFACE IS APPROXIMATE ONLY AND HAS BEEN SKETCHED TO INCLUDE INTERPRETATION. THUS, VERTICAL SCALE IS APPROXIMATE.
  - (3) DIP ANGLE IS INFERRED ONLY. FELSENMEER OUTLINES AND THE DIP OF BEDS IN UNIT "A" HAVE BEEN USED TO ESTIMATE THE DIP OF BEDDING AND CONTACTS. CONTACTS SKETCHED ARE APPARENT DIPS.

**AQUITAINE COMPANY OF CANADA LTD.**  
**GEOLOGICAL CROSS-SECTION  
 ALONG LINE 800 S. THROUGH  
 A SHOWING ON THE BON CLAIMS  
 YUKON TERRITORY, 1978.**

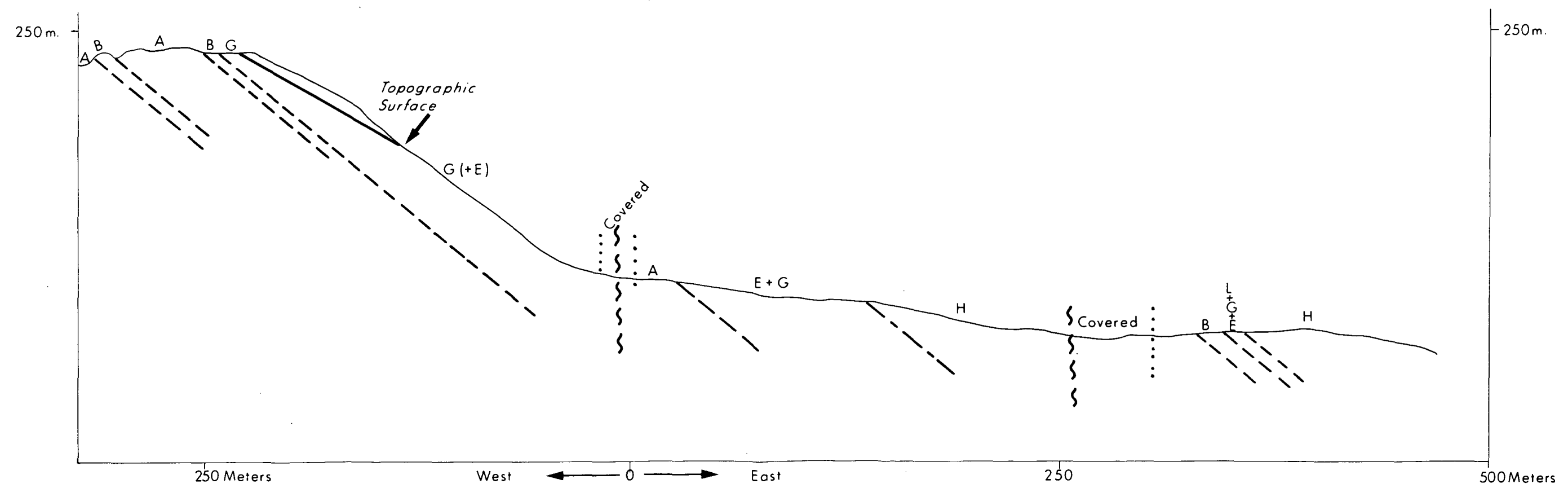


Fig. No: 68

LEGEND

MESOZOIC	{	JURASSIC	}	OBSERVED ONLY AS FELSENMEER
		LOWER JURASSIC OR YOUNGER		
		KINGAK FORMATION (LOWER MEMBER)		
		[H] Sandstone, fine grained, carbonaceous, weathers dark grey to brown		
		CARBONIFEROUS		
		UPPER CARBONIFEROUS (?)		
		[L] Chert fragment conglomerate / breccia, weathers dark grey to black		
		[G] Chert pebble conglomerate / breccia, weathers light grey to white		
PALEOZOIC	{	[E] Porcellanite, porous fine grained, kaolinized (?) weathers dull white	}	OBSERVED ONLY AS FELSENMEER
		[D] Sandstone, rusty recessive weathering		
		LOWER CARBONIFEROUS		
		KAYAK FORMATION (UPPER MEMBER)		
		[B] Shale, black recessive weathering, interbedded with A or D		
		[A] Sandstone, quartzose, resistant weathers light grey		

KEY TO SYMBOLS

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- NOTE:
- (1) GEOLOGICAL INTERPRETATION HAS BEEN DERIVED FROM OBSERVATIONS OF FELSENMEER ONLY. SEE NOTES ON "GEOLOGY OF A SHOWING ON THE BON CLAIMS"
  - (2) TOPOGRAPHIC SURFACE IS APPROXIMATE ONLY AND HAS BEEN SKETCHED TO INCLUDE INTERPRETATION. THUS, VERTICAL SCALE IS APPROXIMATE.
  - (3) DIP ANGLE IS INFERRED ONLY. FELSENMEER OUTLINES AND THE DIP OF BEDS IN UNIT "A" HAVE BEEN USED TO ESTIMATE THE DIP OF BEDDING AND CONTACTS. CONTACTS SKETCHED ARE APPARENT DIPS.



**AQUITAINE COMPANY OF CANADA LTD.**

**GEOLOGICAL CROSS-SECTION  
ALONG LINE 0 N. THROUGH  
A SHOWING ON THE BON CLAIMS  
YUKON TERRITORY, 1978.**

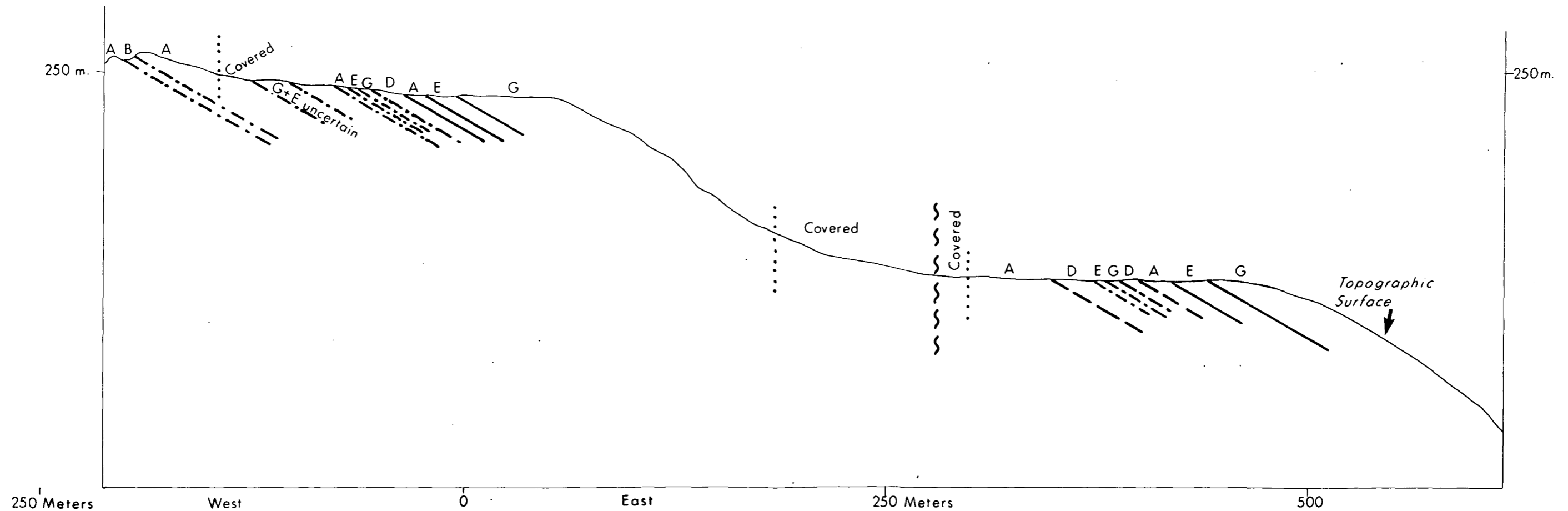


Fig. No. 6A



**AQUITAINE COMPANY OF CANADA LTD.**  
**GEOLOGICAL CROSS-SECTION**  
**ALONG LINE 300 N. THROUGH**  
**A SHOWING ON THE BON CLAIMS**  
**YUKON TERRITORY, 1978**

LEGEND	
MESOZOIC	JURASSIC LOWER JURASSIC OR YOUNGER KINGAK FORMATION (LOWER MEMBER) H Sandstone, fine grained, carbonaceous, weathers dark grey to brown
	CARBONIFEROUS UPPER CARBONIFEROUS (?) L Chert fragment conglomerate / breccia, weathers dark grey to black. G Chert pebble conglomerate / breccia, weathers light grey to white E Parcellonite, porous fine grained, kaolinized (?) weathers dull white D Sandstone, rusty recessive weathering
PALEOZOIC	LOWER CARBONIFEROUS KAYAK FORMATION (UPPER MEMBER) B Shale, black, recessive weathering, interbedded with A or D A Sandstone, quartzose, resistant, weathers light grey

KEY TO SYMBOLS

- Geologic contact (defined)
- - - Geologic contact (approximate)
- - - Geologic contact (inferred)
- ..... Limit of significant felsenmeer cover
- ~ ~ ~ Fault (approximate)
- ~ ~ ~ Fault (inferred)

NOTE:

OBSERVED ONLY AS FELSENMEER

- (1) GEOLOGICAL INTERPRETATION HAS BEEN DERIVED FROM OBSERVATIONS OF FELSENMEER ONLY. SEE NOTES ON "GEOLOGY OF A SHOWING ON THE BON CLAIMS"
- (2) TOPOGRAPHIC SURFACE IS APPROXIMATE ONLY AND HAS BEEN SKETCHED TO INCLUDE INTERPRETATION. THUS, VERTICAL SCALE IS APPROXIMATE.
- (3) DIP ANGLE IS INFERRED ONLY. FELSENMEER OUTLINES AND THE DIP OF BEDS IN UNIT "A" HAVE BEEN USED TO ESTIMATE THE DIP OF BEDDING AND CONTACTS. CONTACTS SKETCHED ARE APPARENT DIPS.

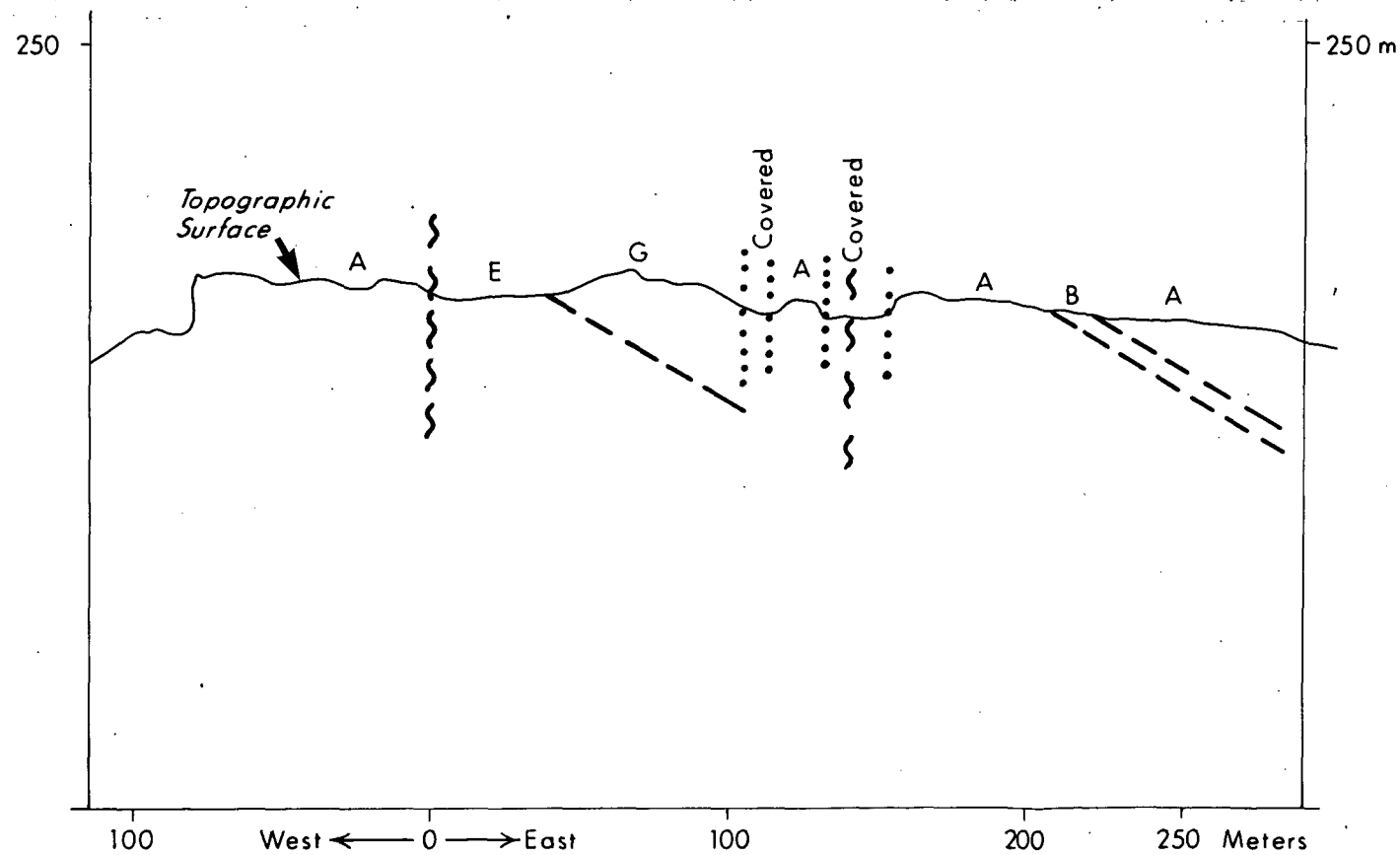


Fig. No: 6 C

# GRID POSITION ON BON CLAIMS OF INDUCED POLARIZATION SURVEY 1978

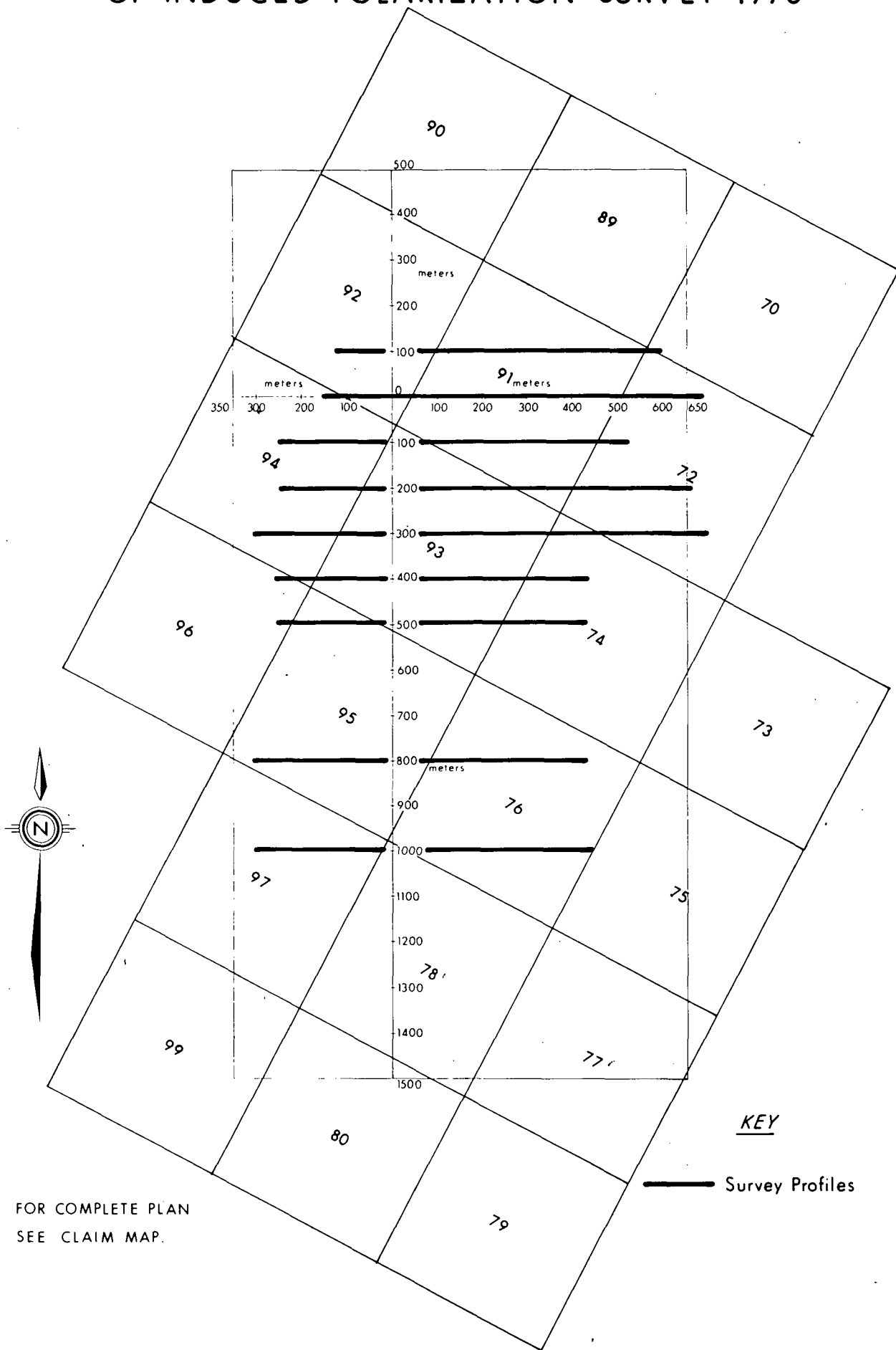


Fig No: 7

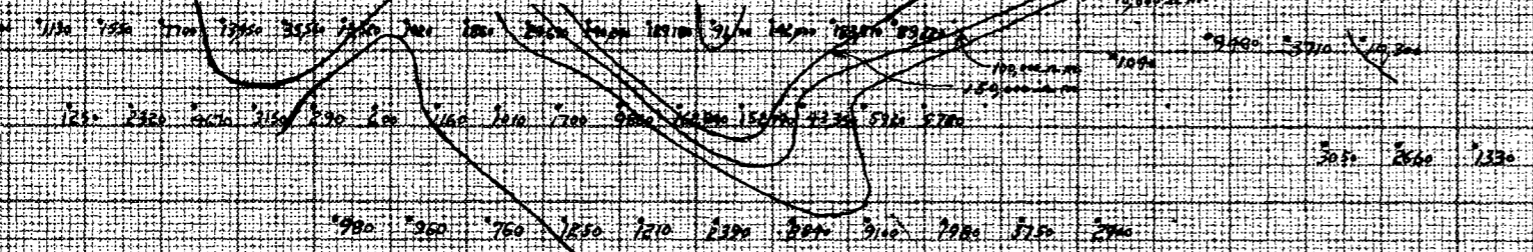
CHARGEABILITY

30  
20  
10  
0



--- NS 1  
 --- NS 4  
 --- NS 6

RESISTIVITY



V. DEPTH  
 25m  
 50m  
 75m

APPROXIMATE TOPOGRAPHY

Fig. No. 10



AQUITAINE COMPANY OF CANADA LTD.

TEST I.P. AND RESISTIVITY — BON CLAIMS

SCALES:

$1\text{ cm} = 25\text{ m.}$   
 $1\text{ cm} = 10\text{ MILLI SECONDS}$

LINE 0+00

SURVEY BY **AQUITAINE**      PLOTTED BY: **G.N.**  
 DATE: **JULY, 1978**      A.F.E.      AX-28

2 Zones approximately 25m apart  
 Depth extent good  
 Permafrost may not extend past 70m.

250W      100W      0      100E      200E      300E

L10S

L8S

L5S

L4S

L3S

L2S

L1S

L0

L1N

325 W

300 W

275 W

250 W

225 W

200 W

175 W

150 W

125 W

100 W

75 W

50 W

25 W

0

25 E

50 E

75 E

100 E

125 E

150 E

175 E

200 E

225 E

250 E

275 E

300 E

325 E

350 E

375 E

400 E

425 E

450 E

475 E

500 E

525 E

550 E

575 E

600 E

625 E

650 E

675 E

700 E

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4  
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1.5  
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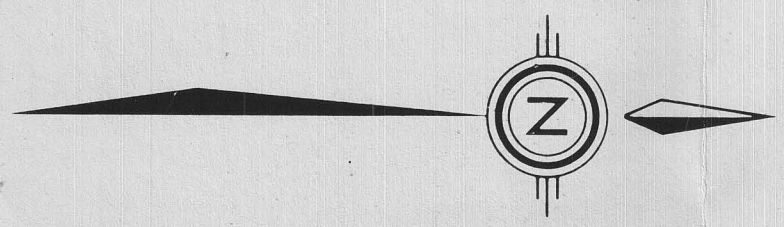


Fig. No. 9  
**AQUITAINE**  
 COMPANY OF CANADA Ltd.  
**INDUCED POLARIZATION SURVEY**  
**CHARGEABILITY PLAN**  
**BONNET LAKE, YUKON**  
 (VALUES IN MILLISECONDS)  
 POLE-DIPOLE ARRAY  $\alpha=25m$  N=4

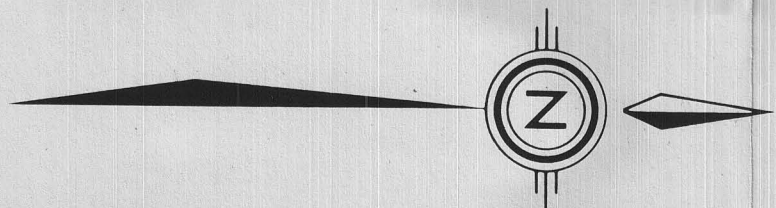
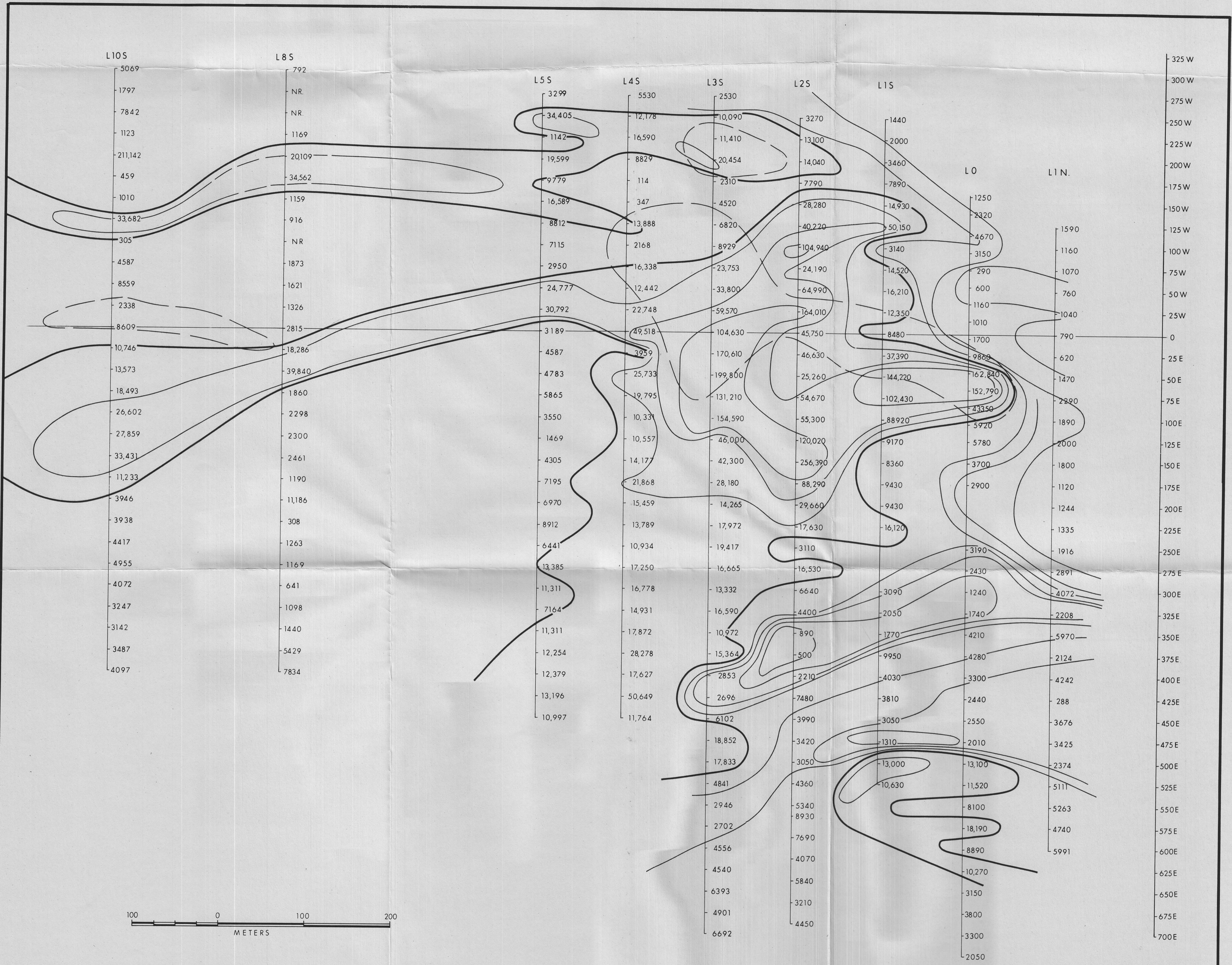


Fig. No. 8  
**AQUITAINE**  
 COMPANY OF CANADA Ltd.  
 INDUCED POLARIZATION  
 SURVEY  
 APPARENT RESISTIVITY PLAN  
 BONNET LAKE, YUKON  
 (VALUES IN OHM-M)  
 POLE-DIPOLE ARRAY  $Q=25m$ .  $N=4$

# GRID POSITION ON BON CLAIMS OF SOIL SURVEYS 1978

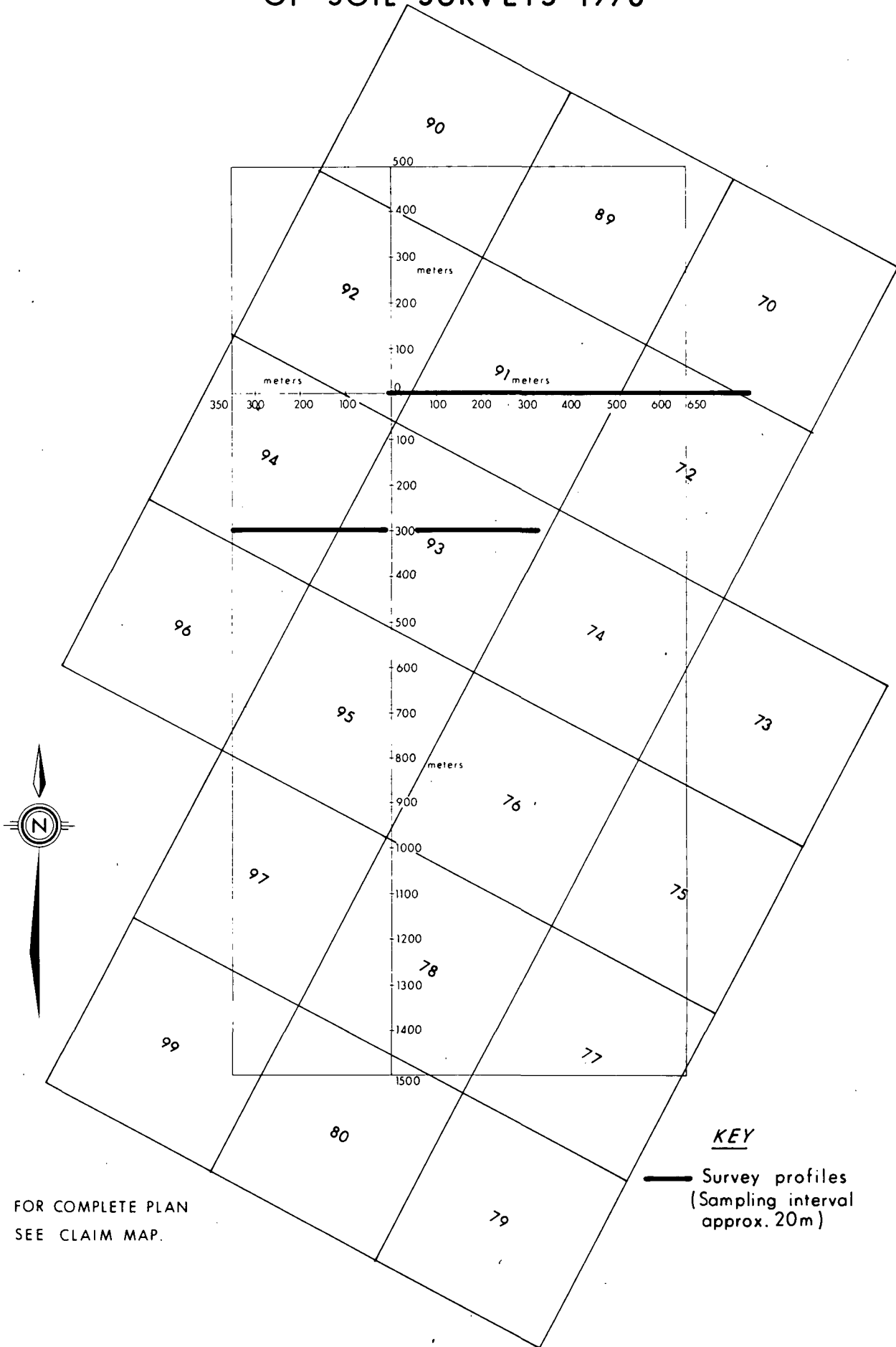


Fig No: 11



AQUITAINE COMPANY OF CANADA LTD.

BON CLAIMS GRID  
YUKON TERRITORY

PROFILE OF  
U<sub>3</sub>O<sub>8</sub> CONTENT OF SOIL SAMPLES

LINE 0 NORTH  
(SAMPLE STATIONS AT APPROXIMATELY  
20 METERS INTERVAL)  
SCALE 1:2500

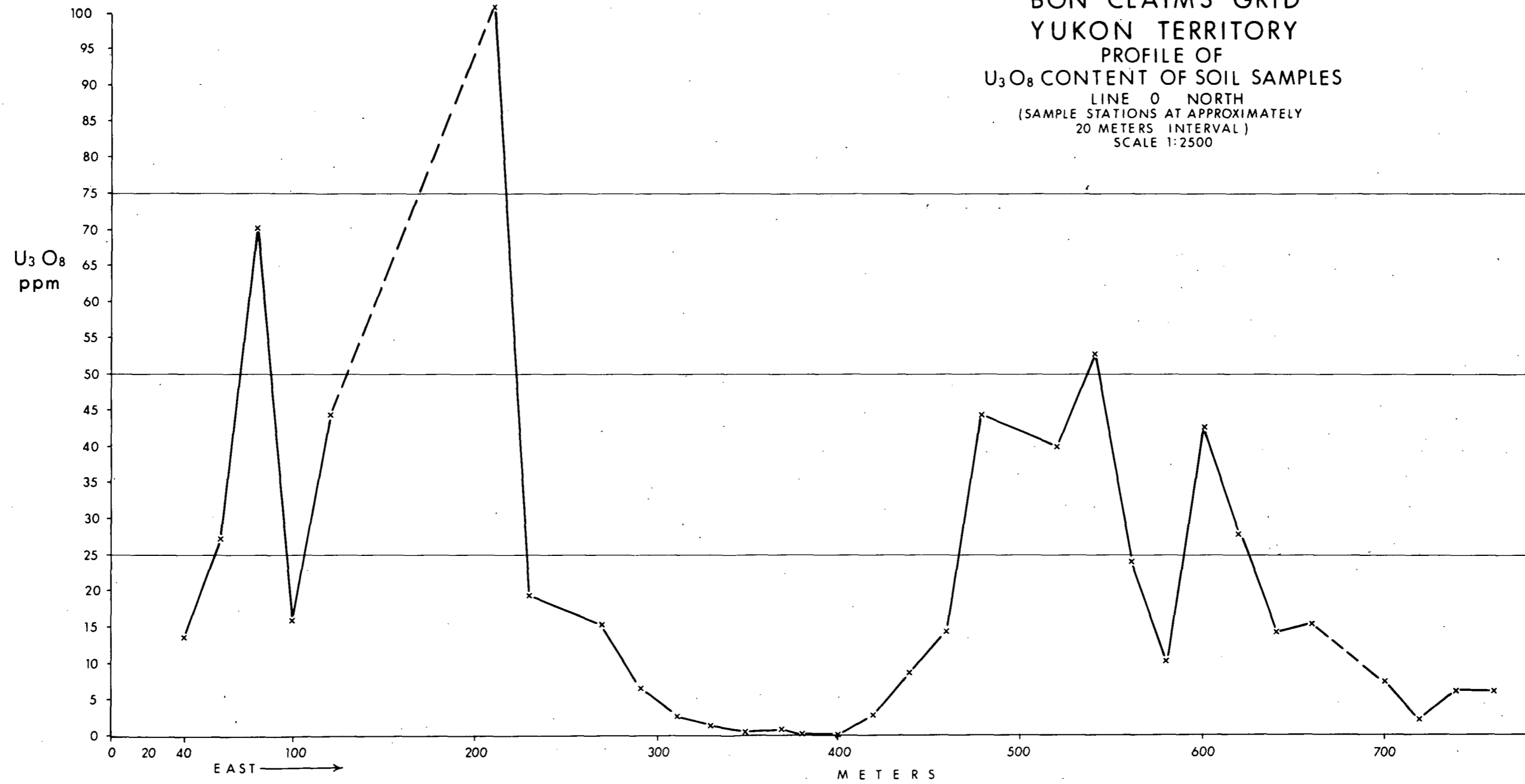


Fig. No: 12 A



AQUITAINE COMPANY OF CANADA LTD.

BON CLAIMS GRID  
YUKON TERRITORY

PROFILE OF  
 $U_3O_8$  CONTENT OF SOIL SAMPLES

LINE 300 SOUTH  
(SAMPLE STATIONS AT APPROXIMATELY  
20 METERS INTERVAL)  
SCALE 1:2500

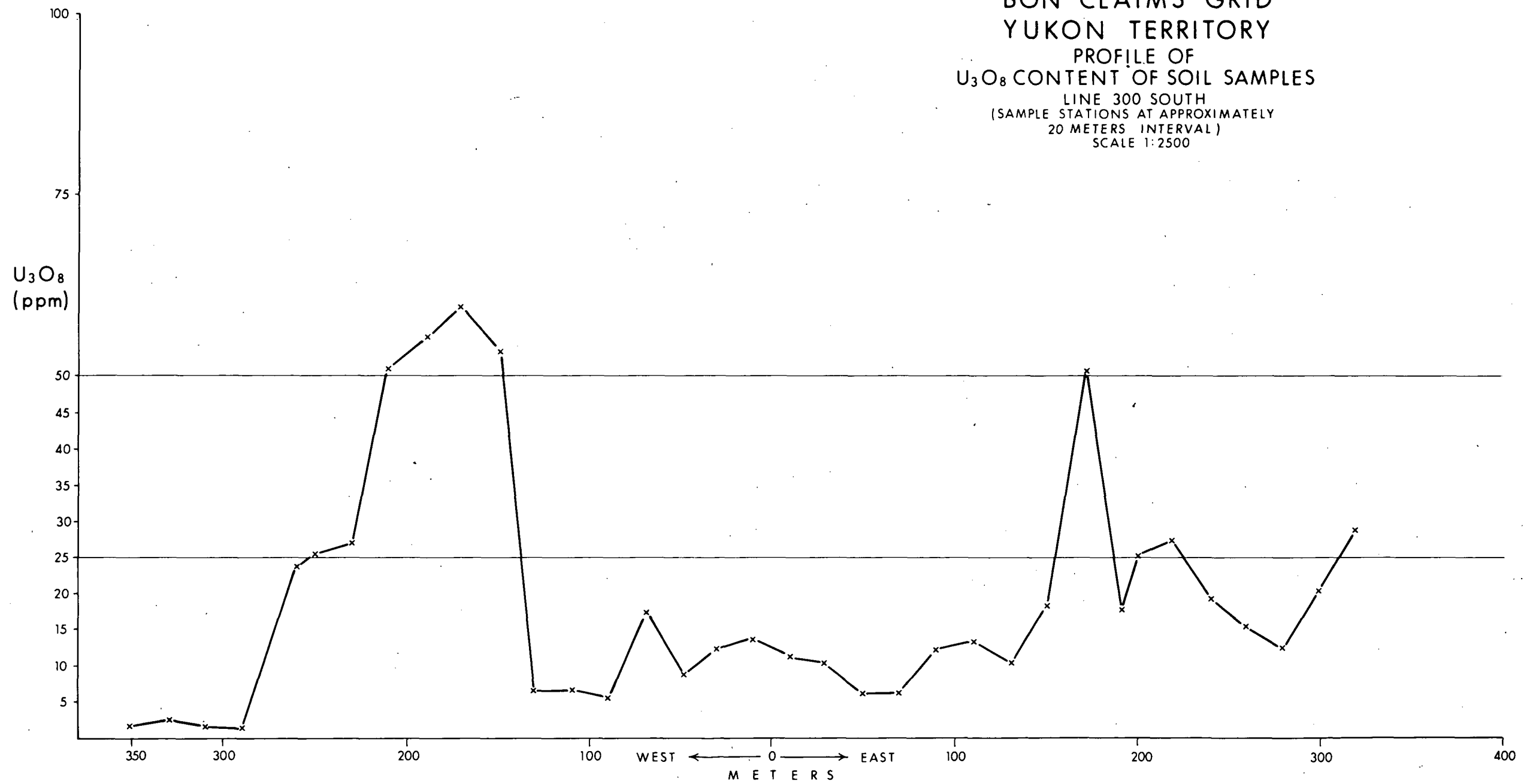


Fig. No: 12 B



AQUITAINE COMPANY OF CANADA LTD.

# BON CLAIMS SHOWING SOIL SAMPLING SURVEY U<sub>3</sub>O<sub>8</sub> CONTENT VERSUS P<sub>2</sub>O<sub>5</sub> CONTENT

KEY TO SYMBOLS

U<sub>3</sub>O<sub>8</sub> (ppm) —●—

P<sub>2</sub>O<sub>5</sub> (%) - -○-

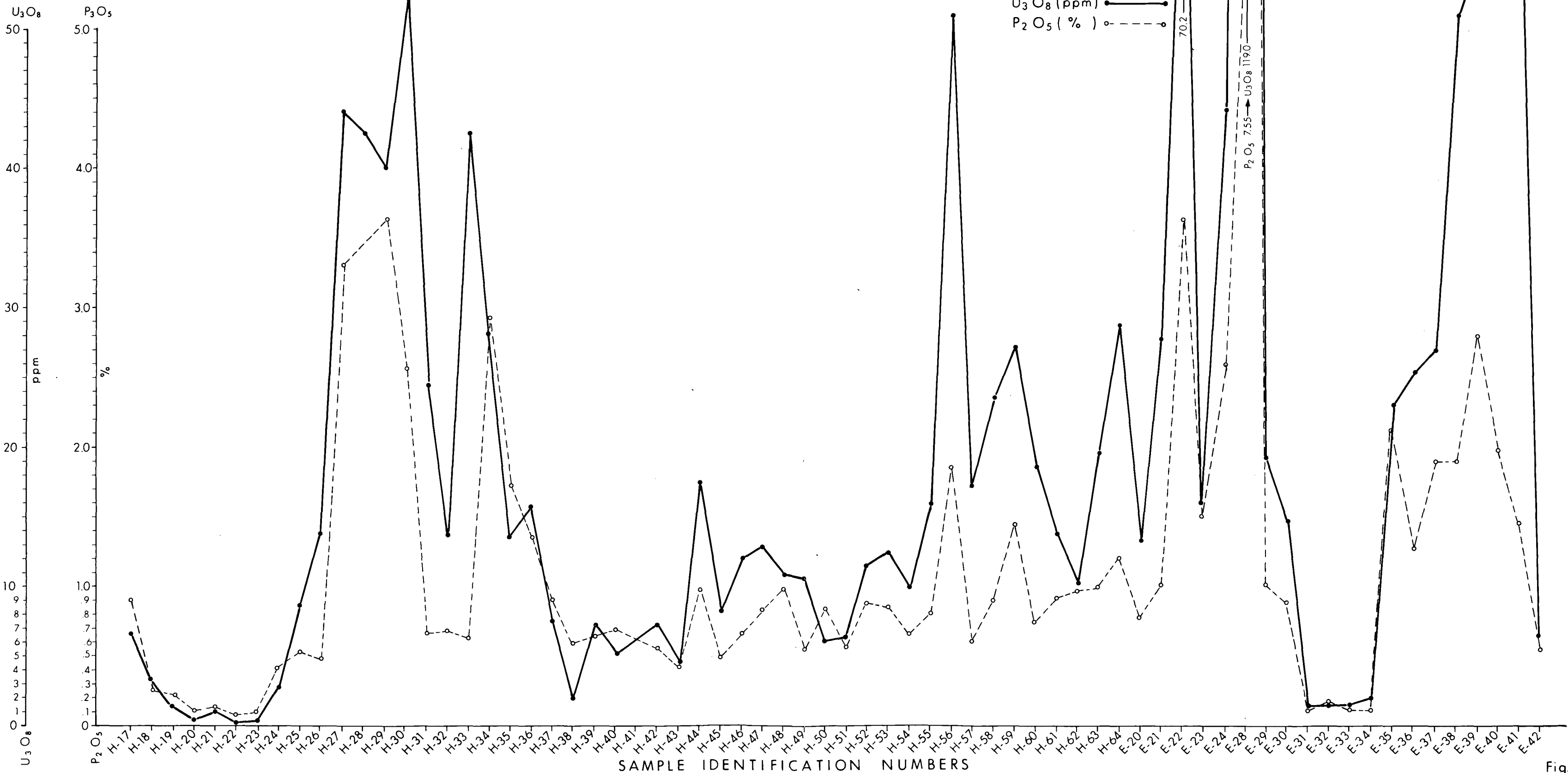
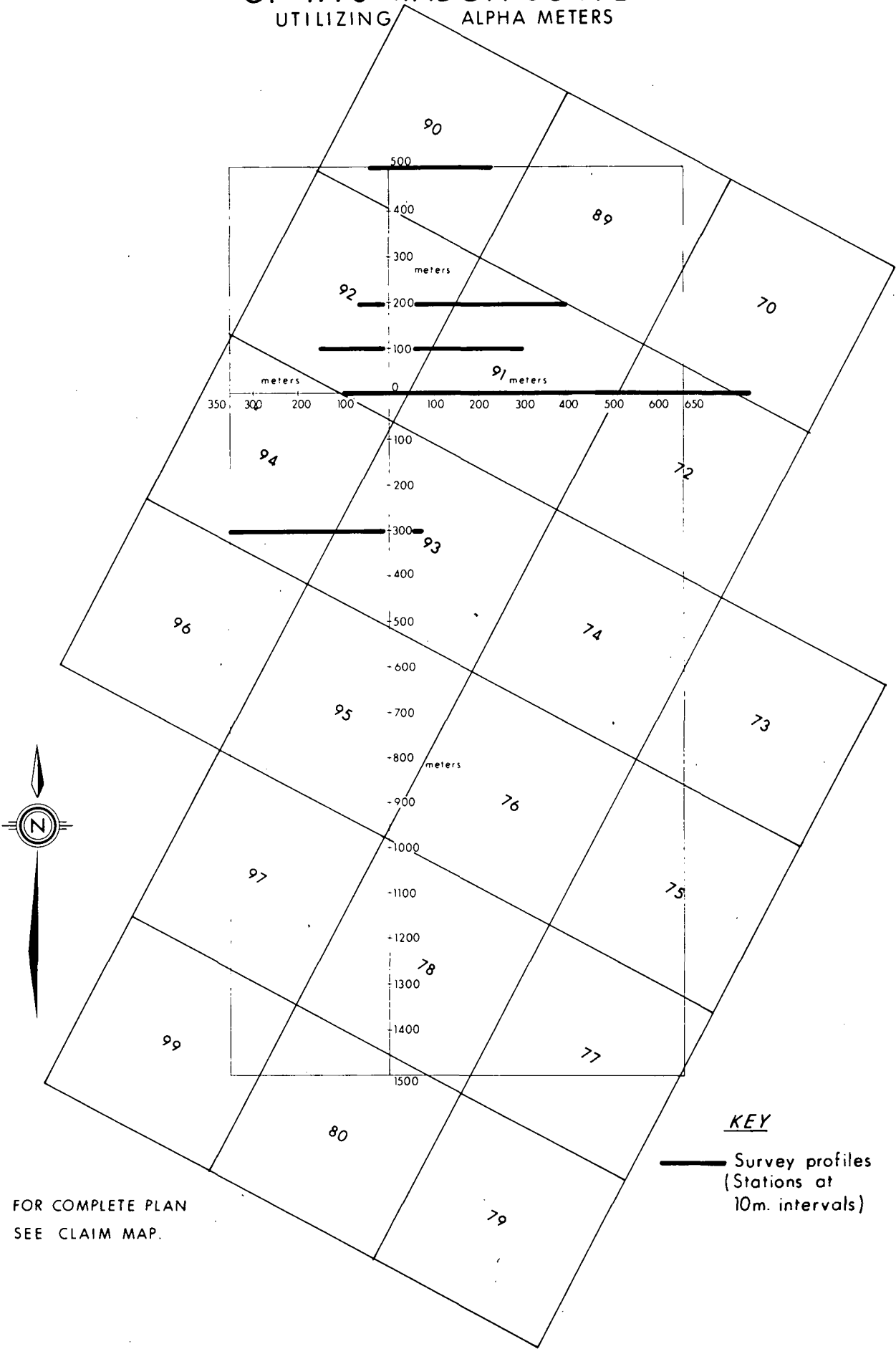


Fig. No.

GRID POSITION ON BON CLAIMS  
 OF 1978 RADON SURVEY  
 UTILIZING ALPHA METERS



FOR COMPLETE PLAN  
 SEE CLAIM MAP.

**KEY**  
 — Survey profiles  
 (Stations at  
 10m. intervals)

Fig. No: 14 A

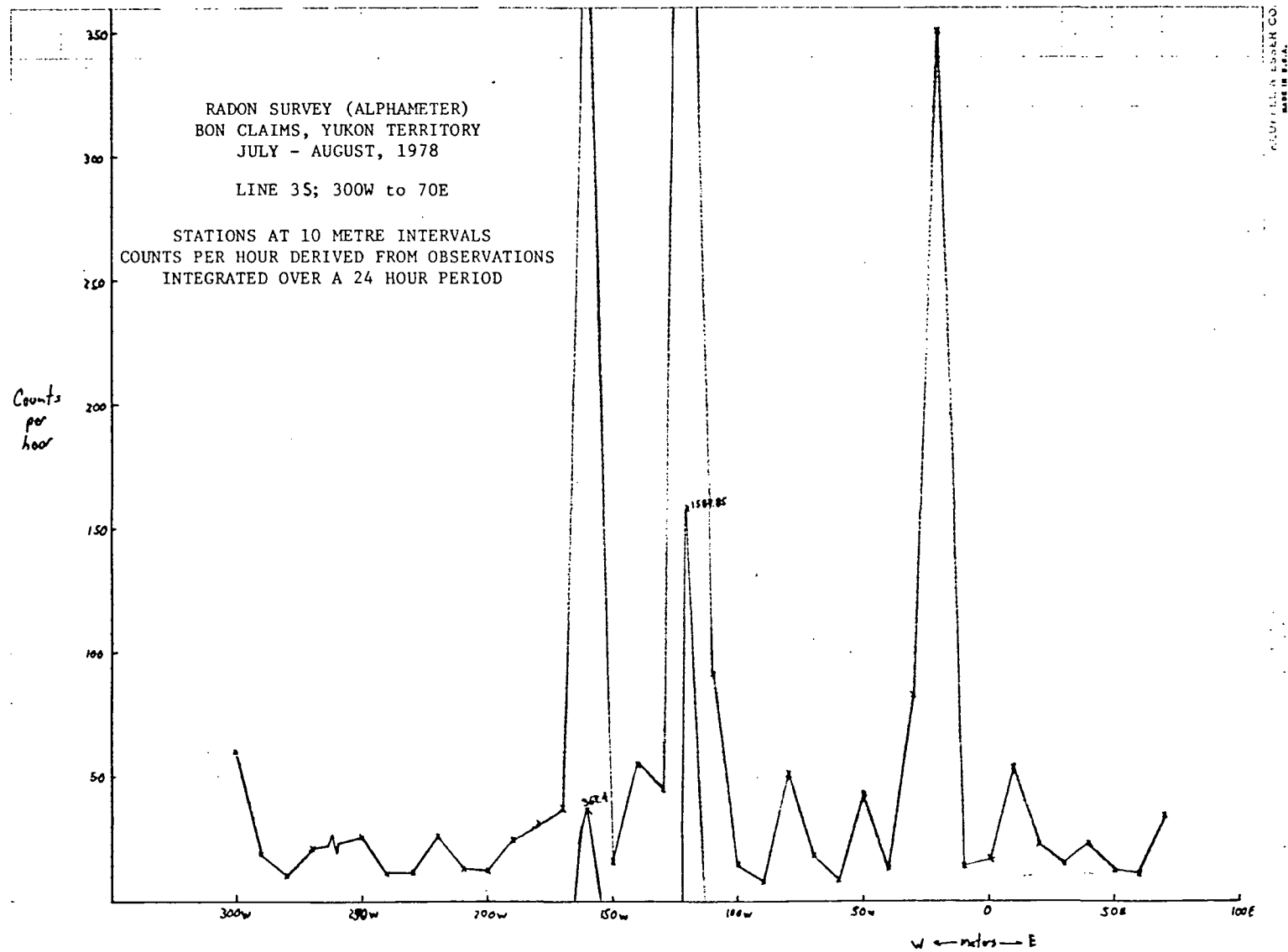


Fig. 14 B

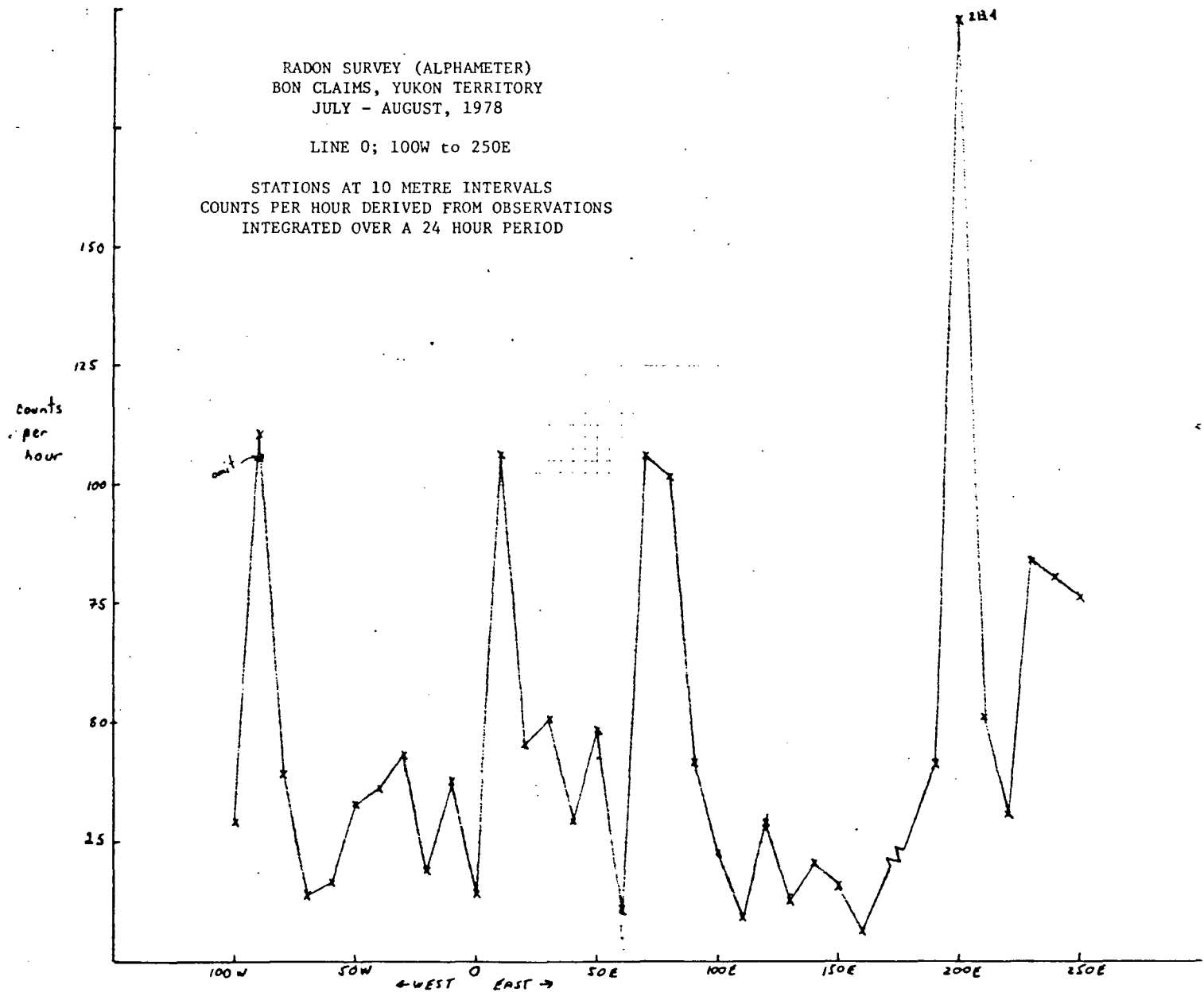


Fig. 14 C

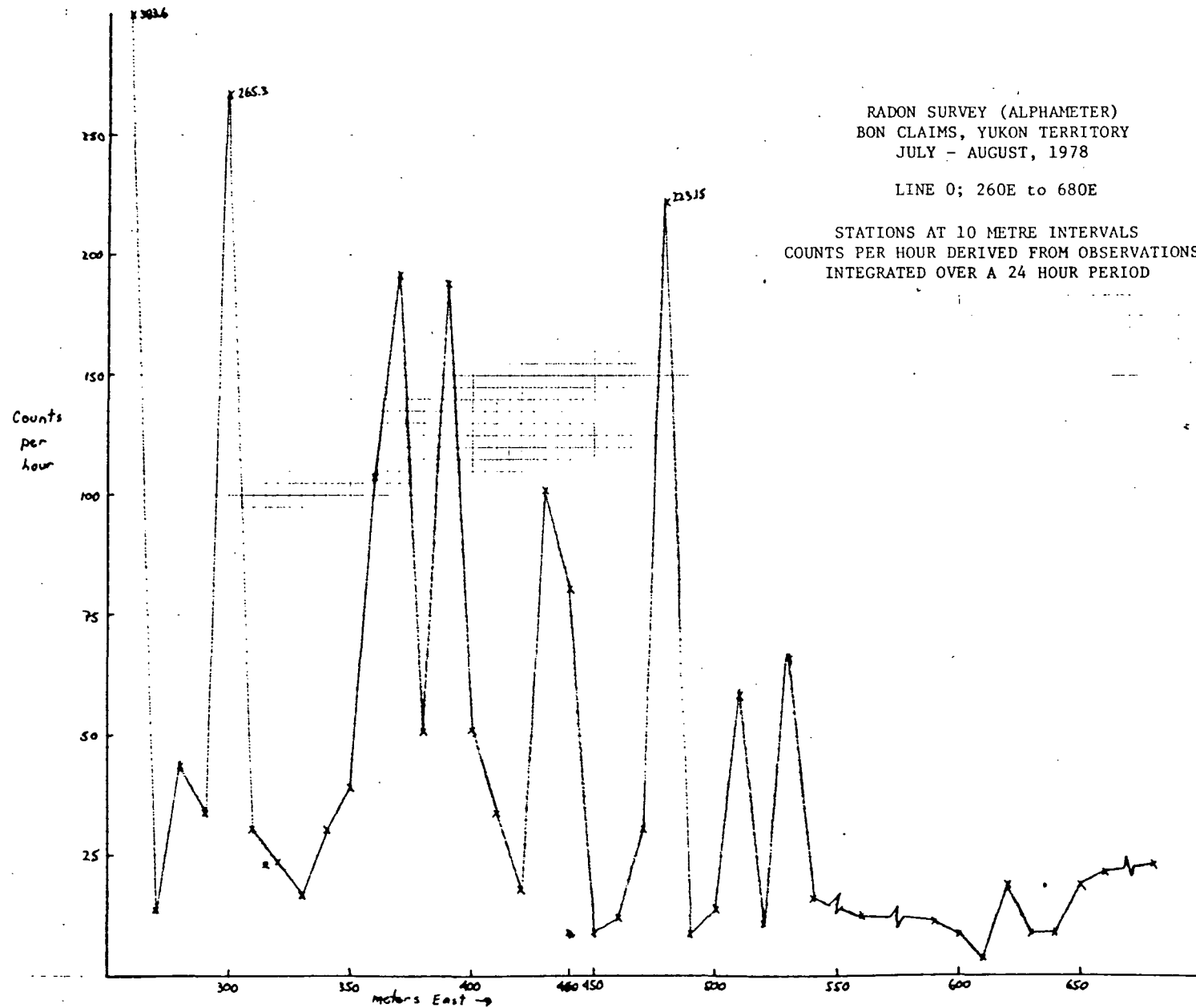
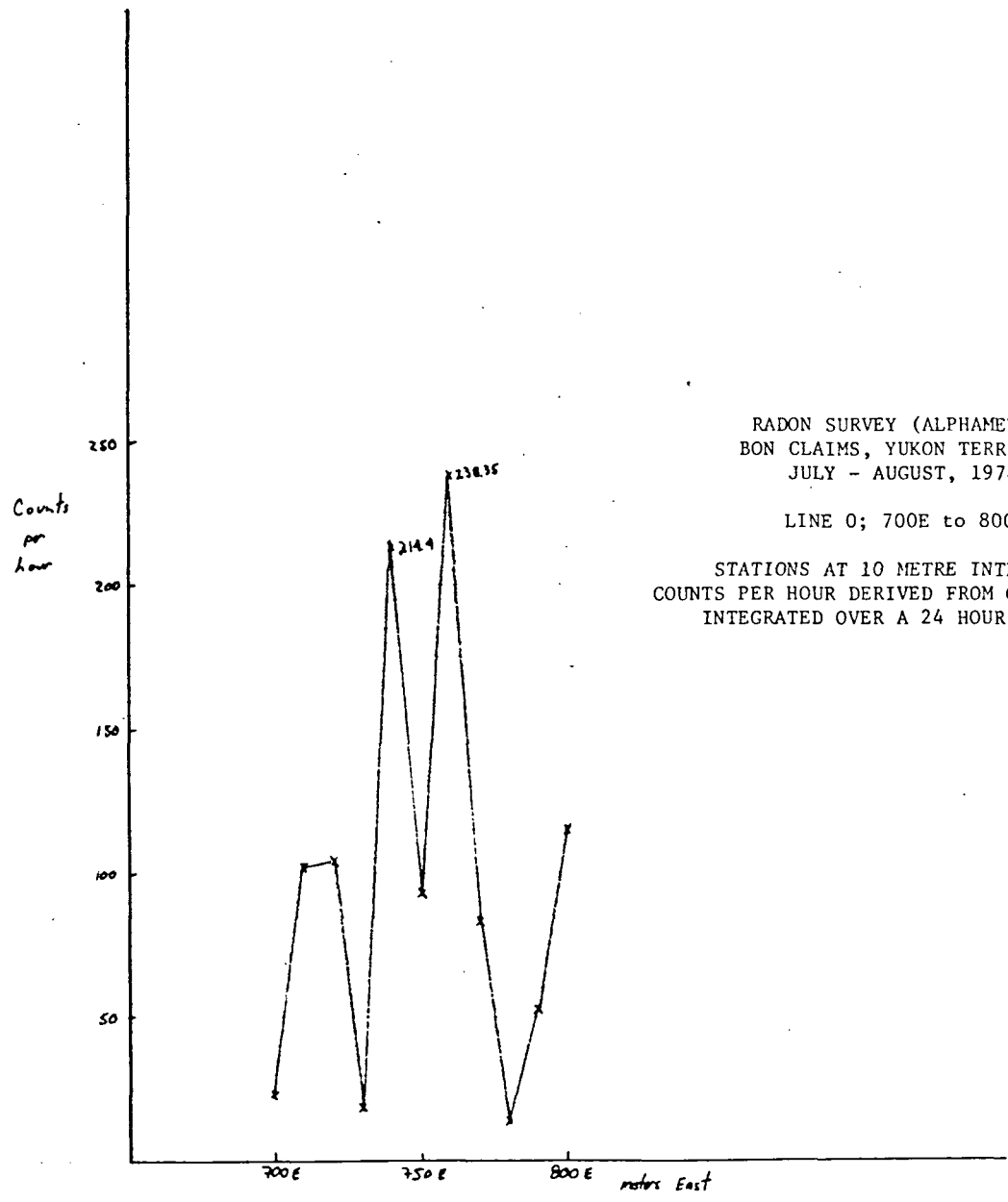


Fig. 14 D

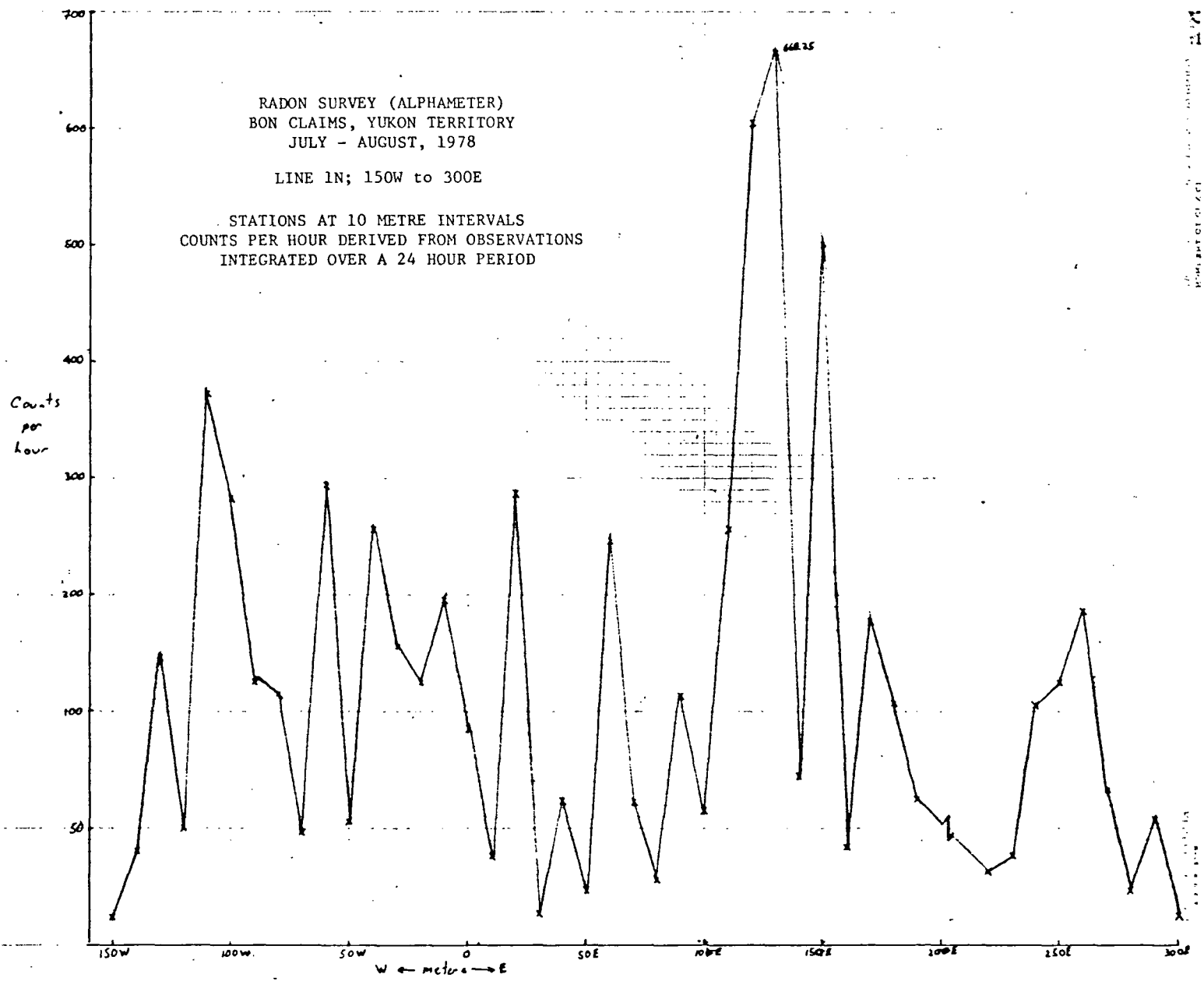


RADON SURVEY (ALPHAMETER)  
 BON CLAIMS, YUKON TERRITORY  
 JULY - AUGUST, 1978

LINE 0; 700E to 800E

STATIONS AT 10 METRE INTERVALS  
 COUNTS PER HOUR DERIVED FROM OBSERVATIONS  
 INTEGRATED OVER A 24 HOUR PERIOD

Fig. 14 E



17  
 1978-08-10 10:10 AM  
 17

Fig. 14F

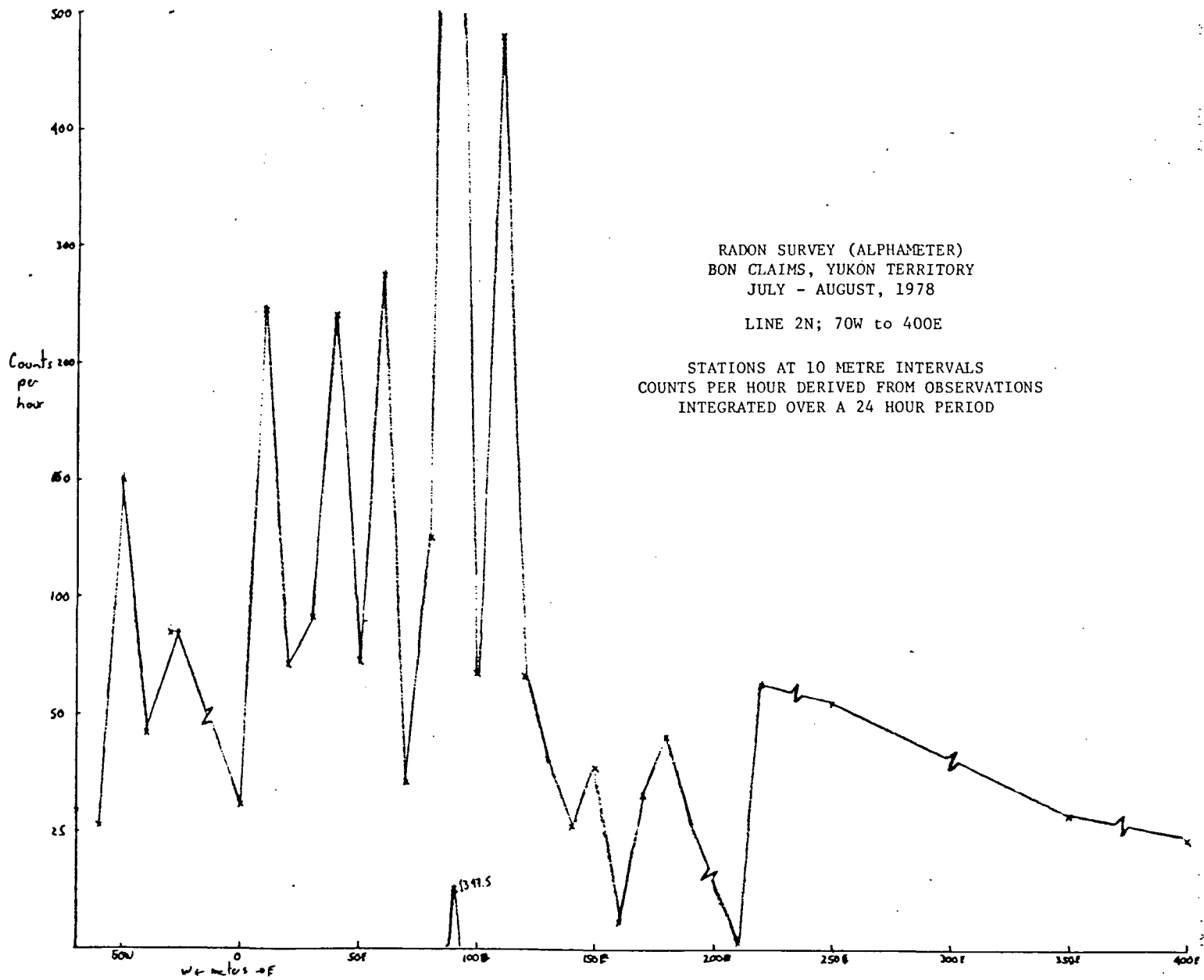


Fig. 14G

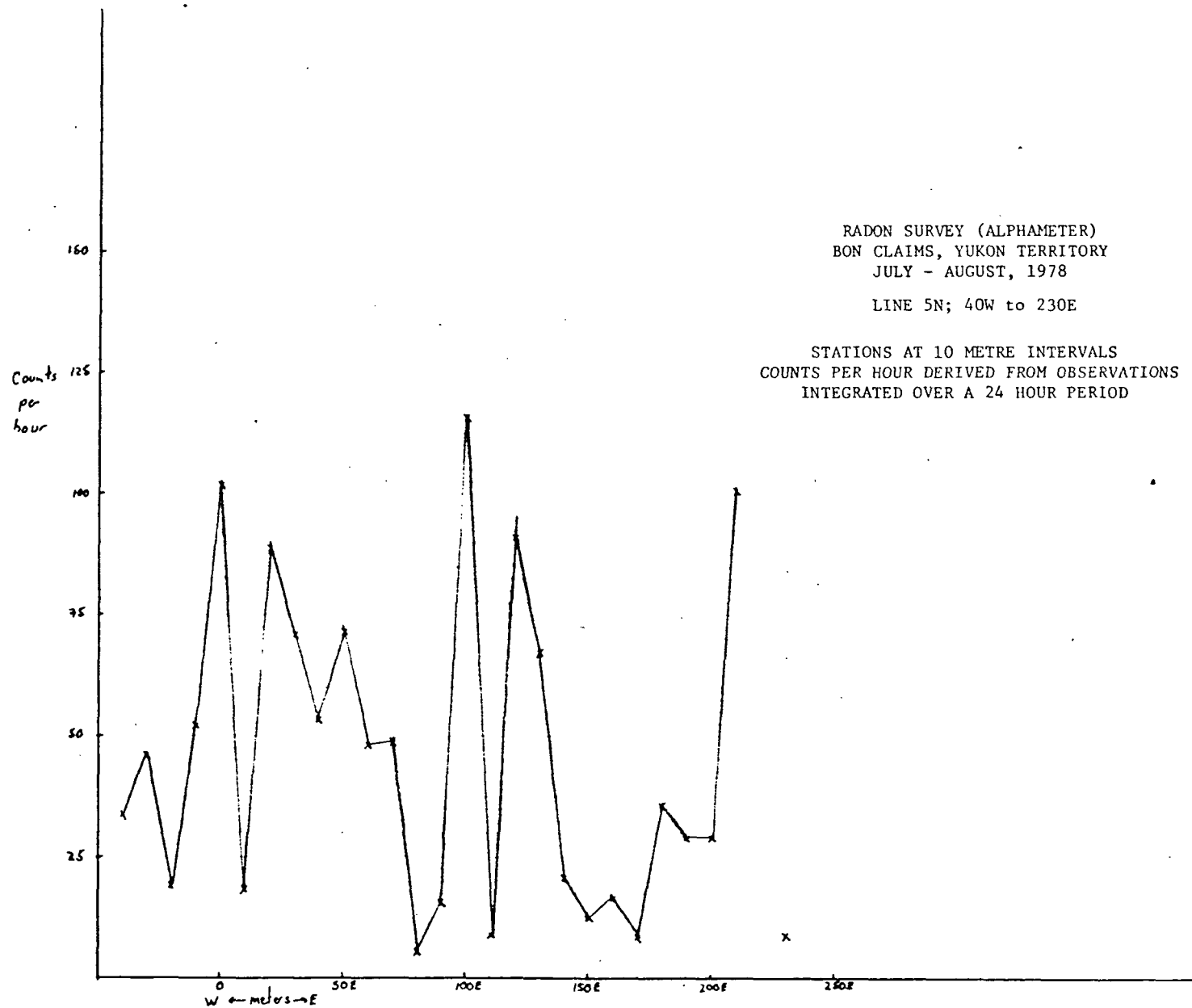
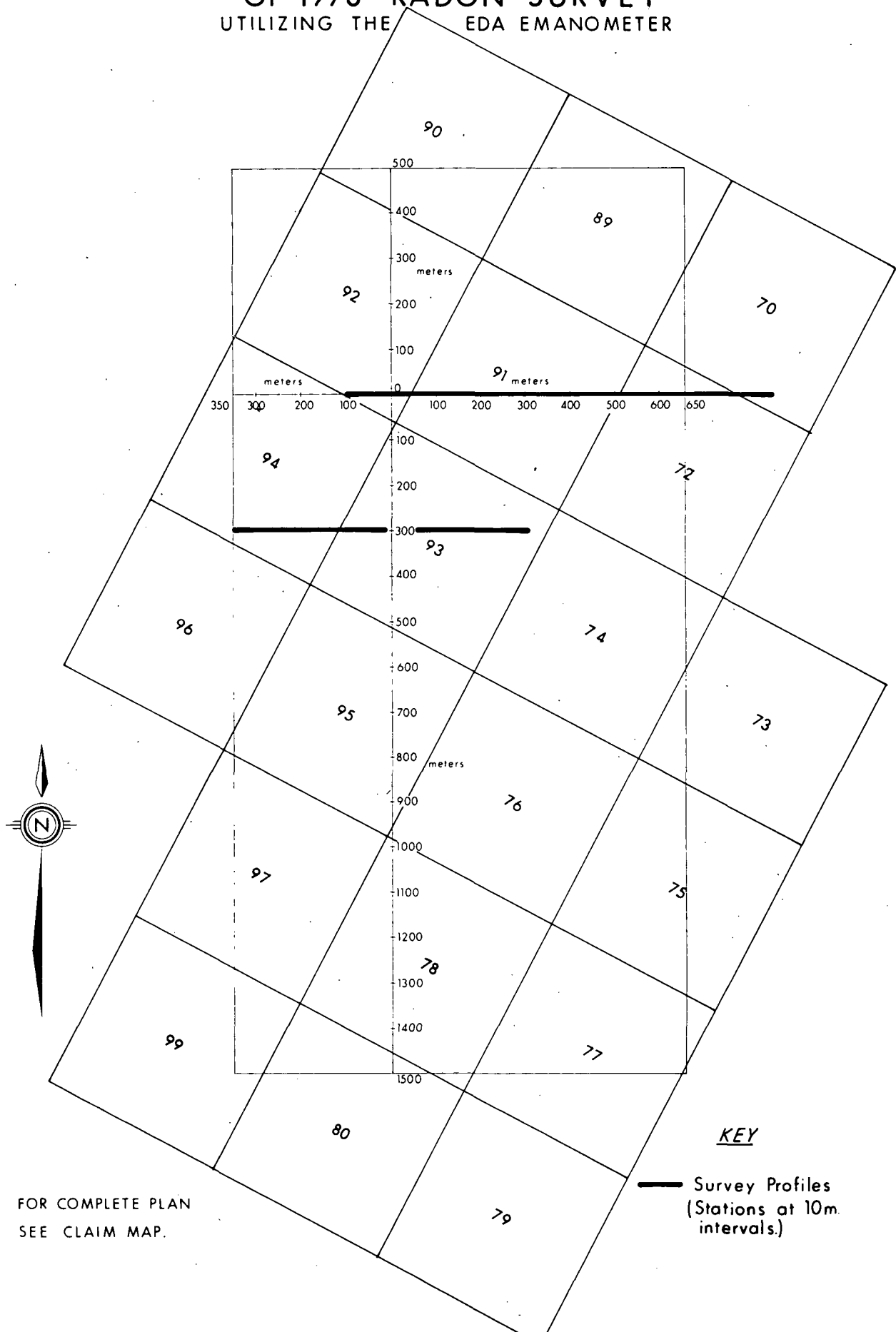


Fig. 14 H

GRID POSITION ON BON CLAIMS  
**OF 1978 RADON SURVEY**  
 UTILIZING THE EDA EMANOMETER



FOR COMPLETE PLAN  
 SEE CLAIM MAP.

**KEY**

— Survey Profiles  
 (Stations at 10m intervals.)

Fig.No: 15A

1)

RADON SURVEY (EDA EMANOMETER)  
BON CLAIMS, YUKON TERRITORY  
JULY - AUGUST, 1978

LINE 3S; 350W to 50W

x RADON 220  
• RADON 222

SAMPLE STATIONS AT 10 METER INTERVALS

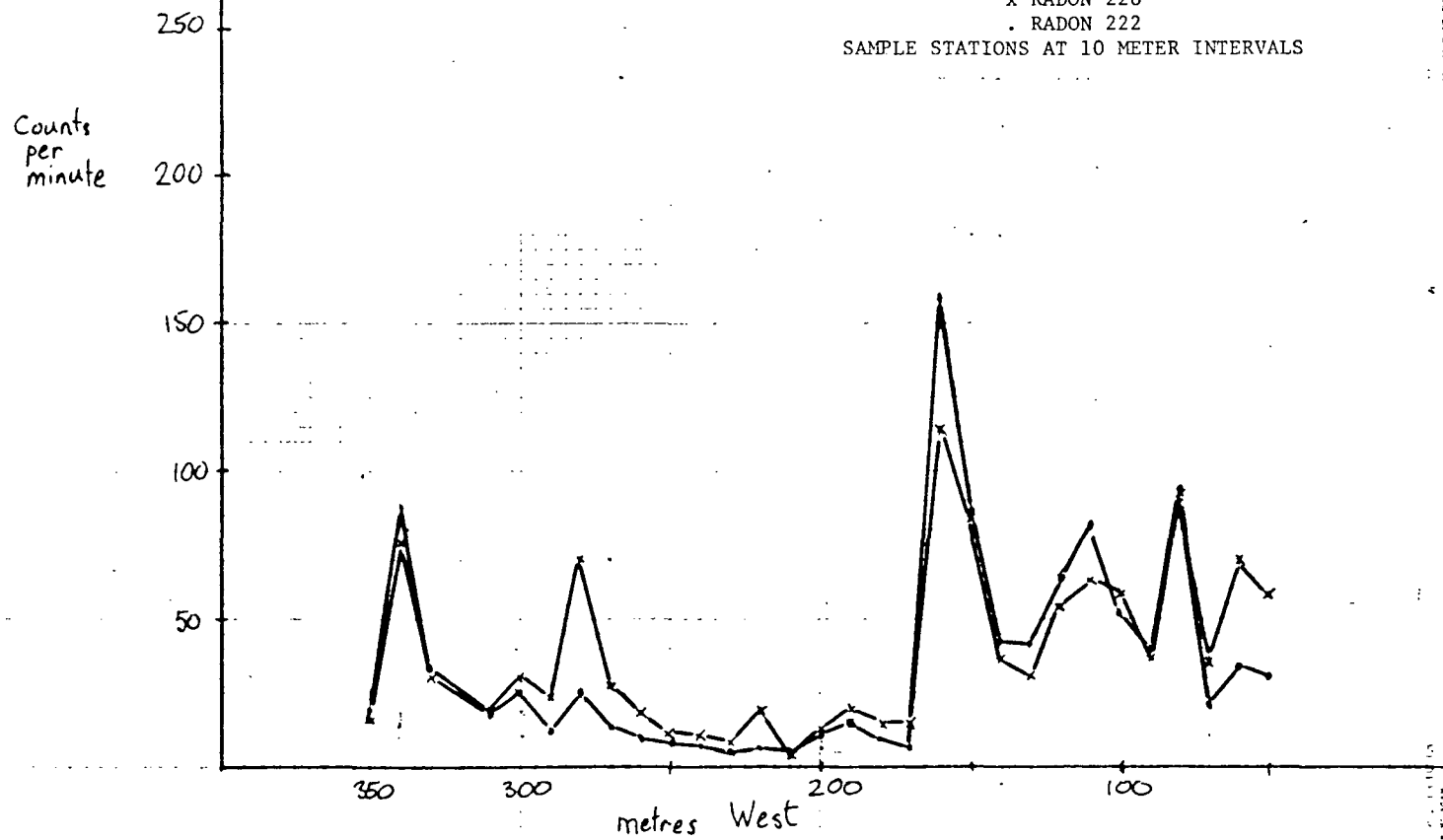


Fig. 15 B

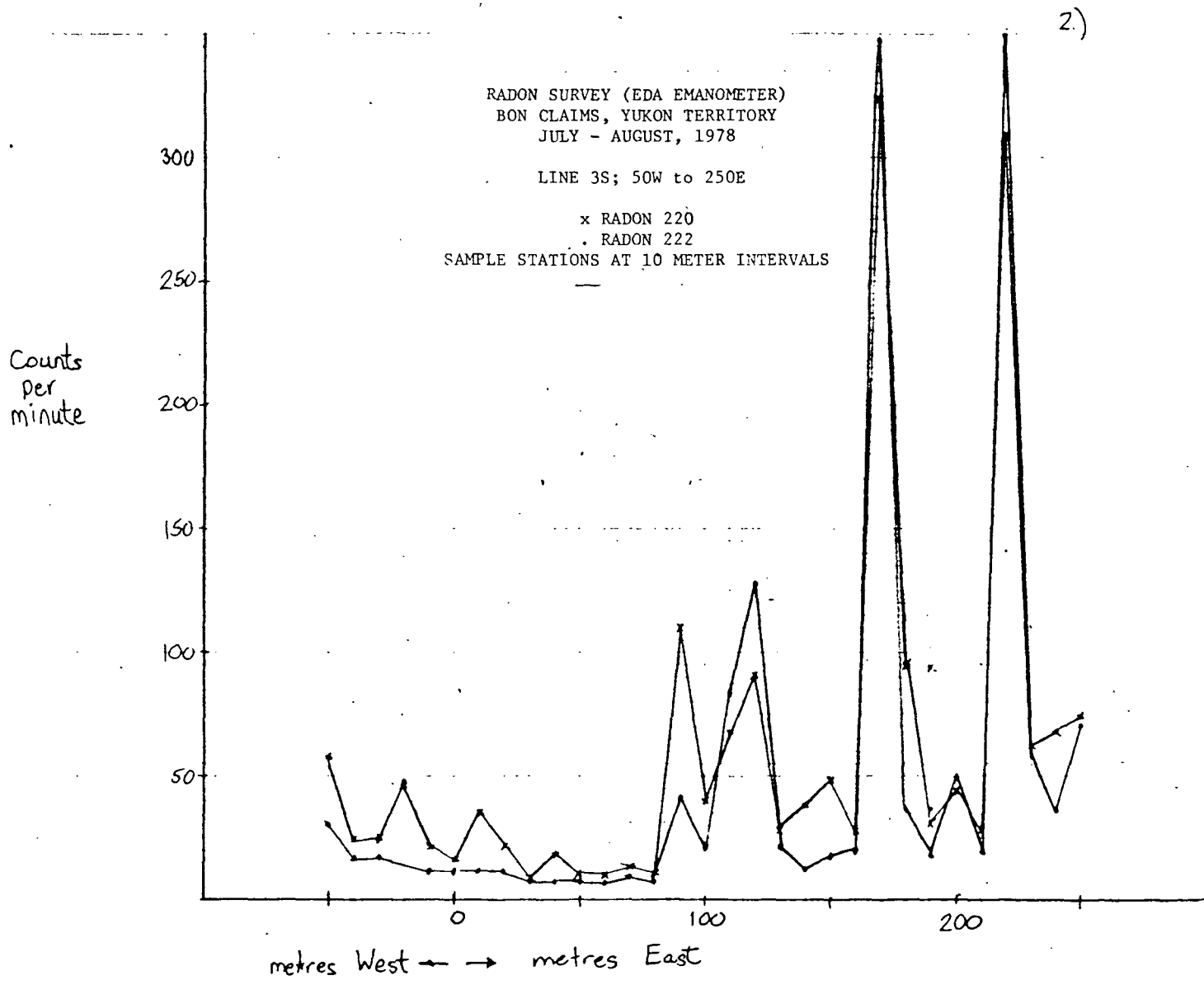


Fig. 15 C

3.)

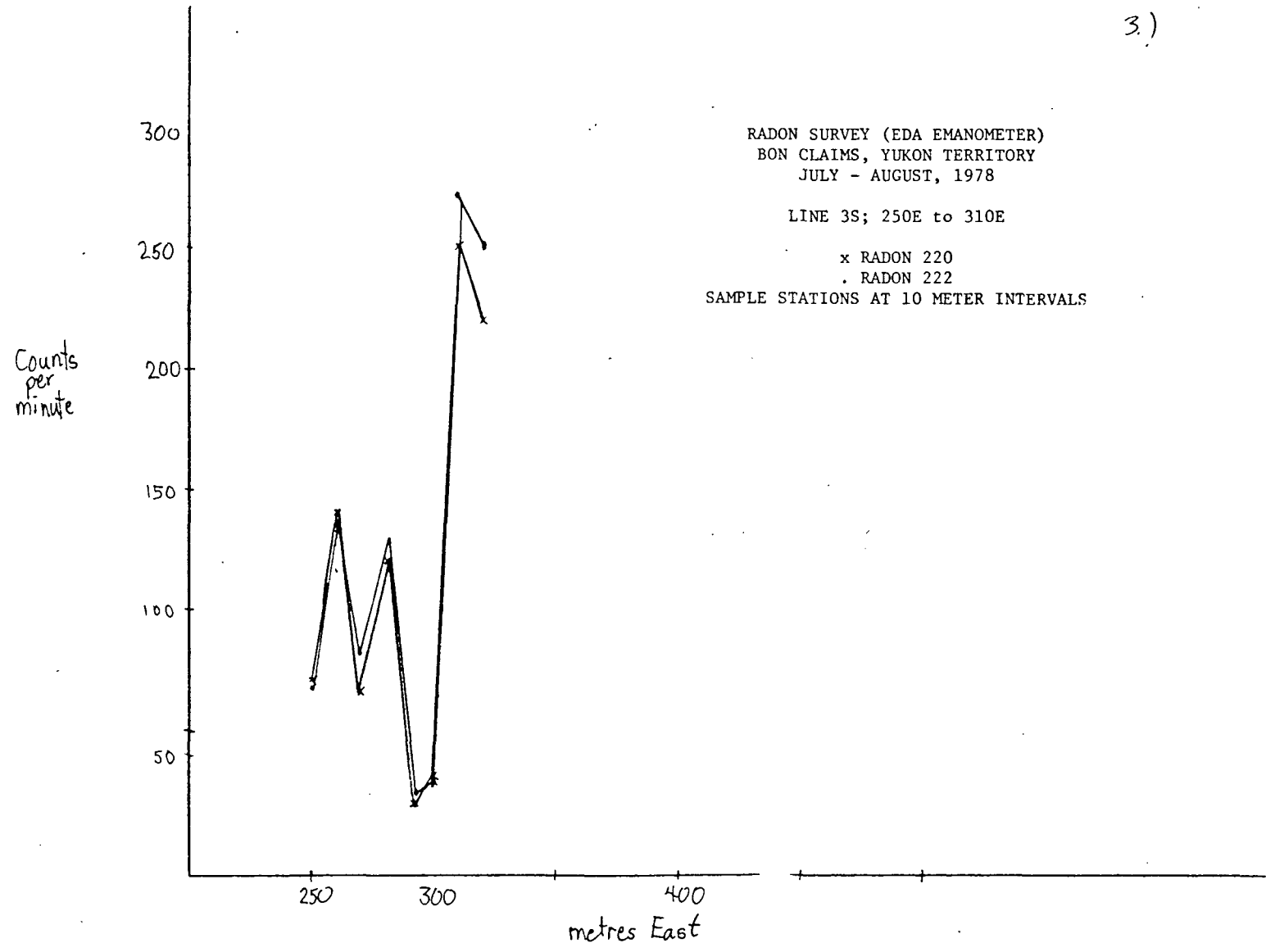


Fig. 15 D  
AK

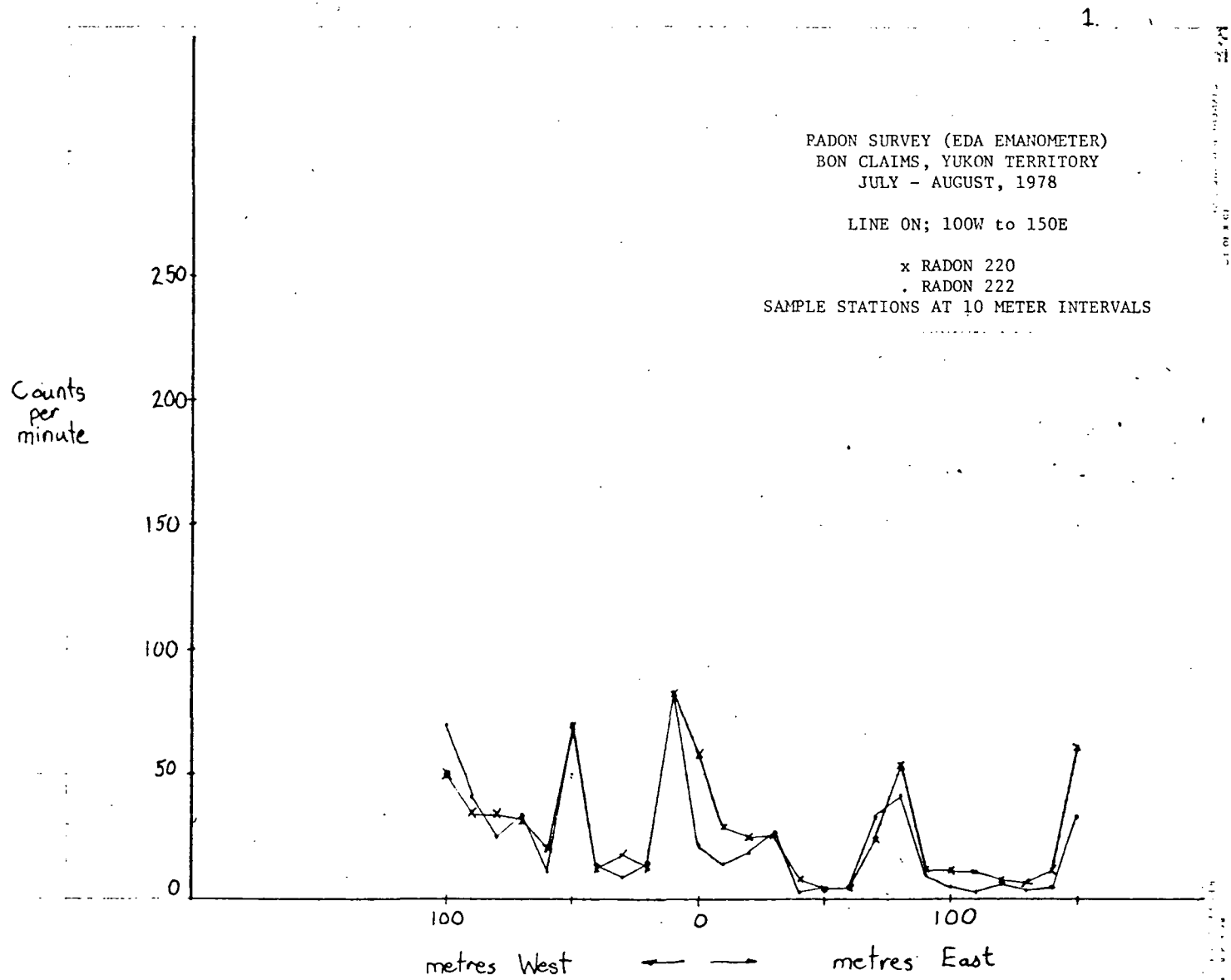


Fig. 15 E

RADON SURVEY (EDA EMANOMETER)  
BON CLAIMS, YUKON TERRITORY  
JULY - AUGUST, 1978  
LINE ON; 150E to 450E  
x RADON 220  
• RADON 222  
SAMPLE STATIONS AT 10 METER INTERVALS

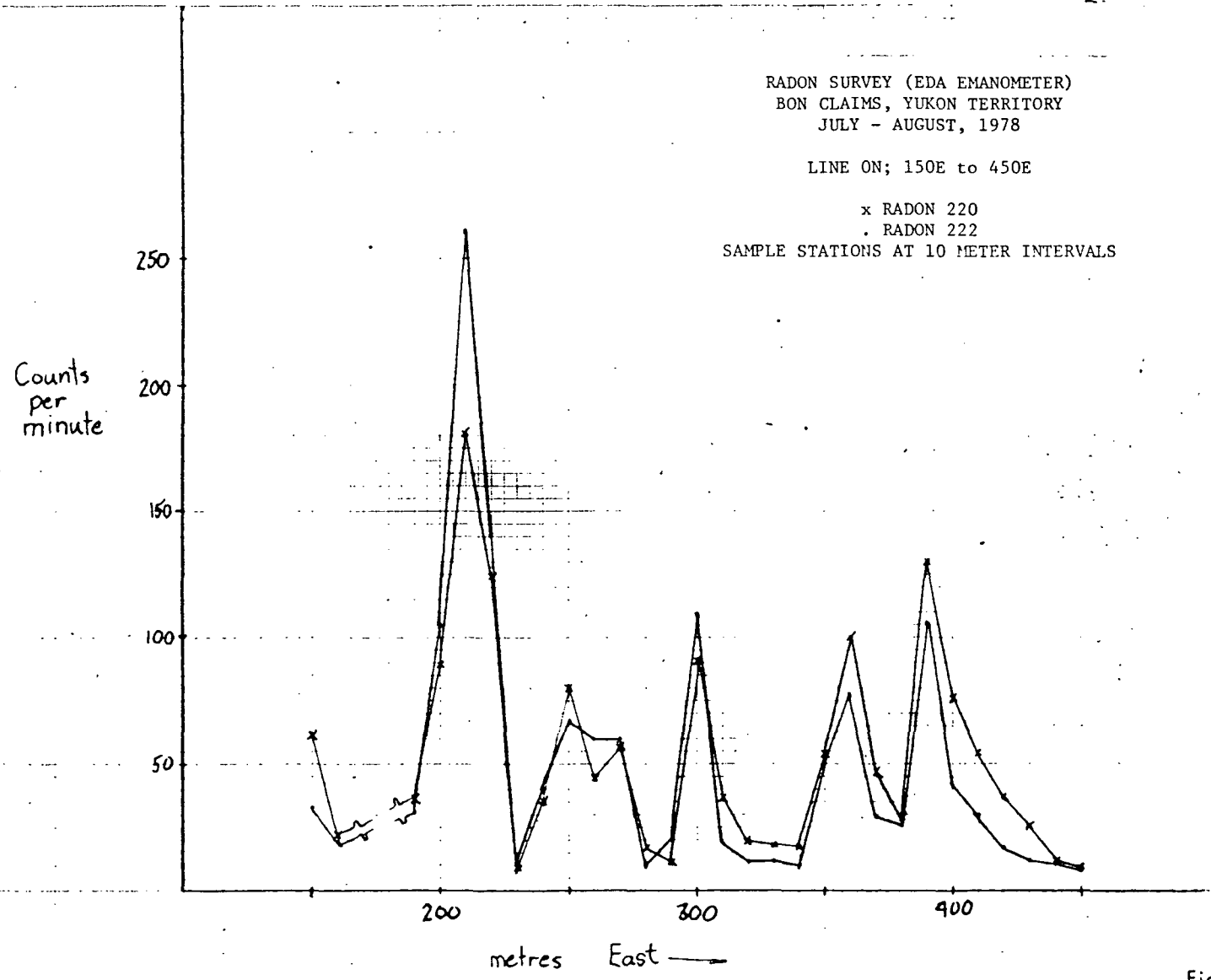


Fig. 15 F

3.

RADON SURVEY (EDA EMANOMETER)  
BON CLAIMS, YUKON TERRITORY  
JULY - AUGUST, 1978  
LINE 0N; 450E to 800E  
x RADON 220  
. RADON 222  
SAMPLE STATIONS AT 10 METER INTERVALS

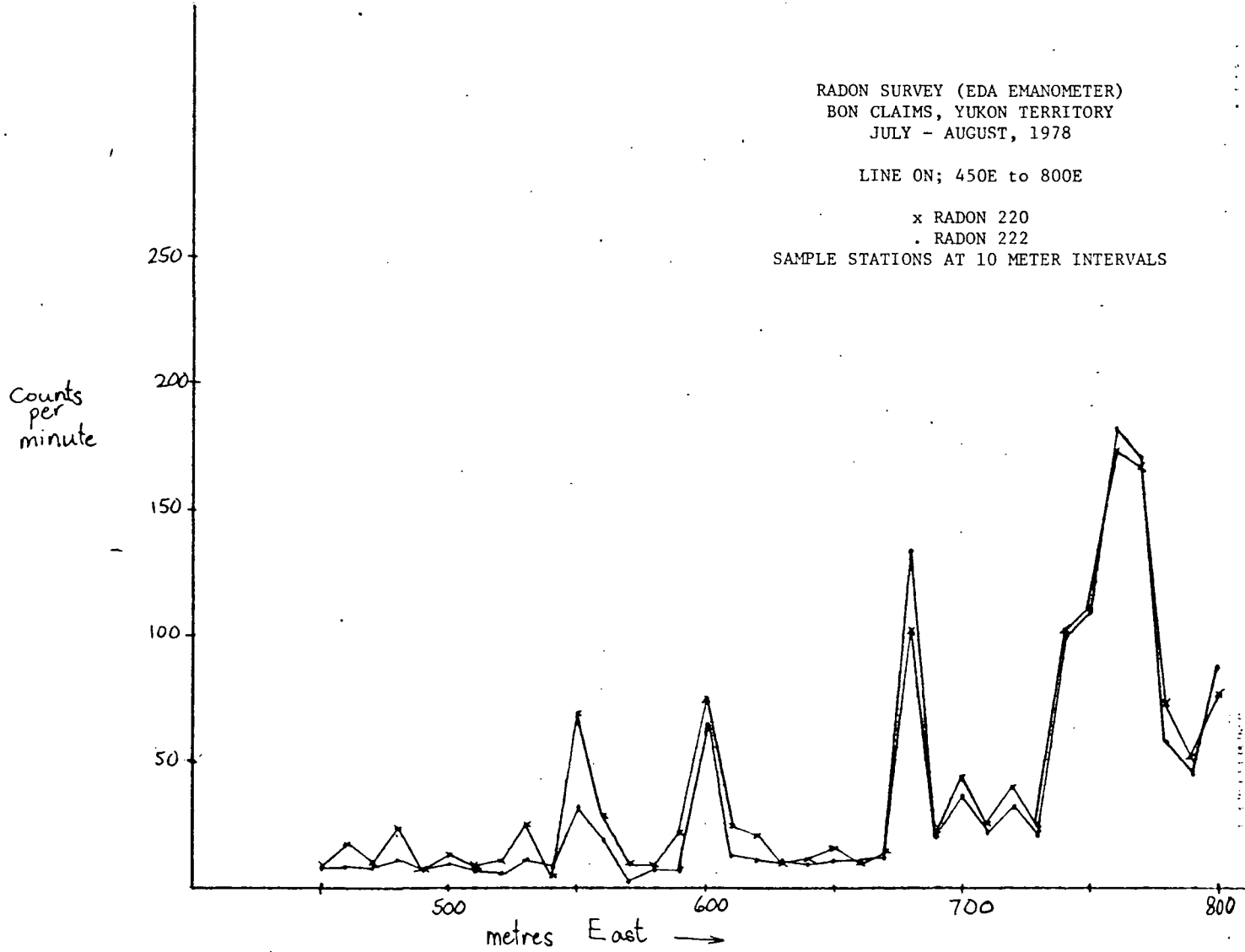


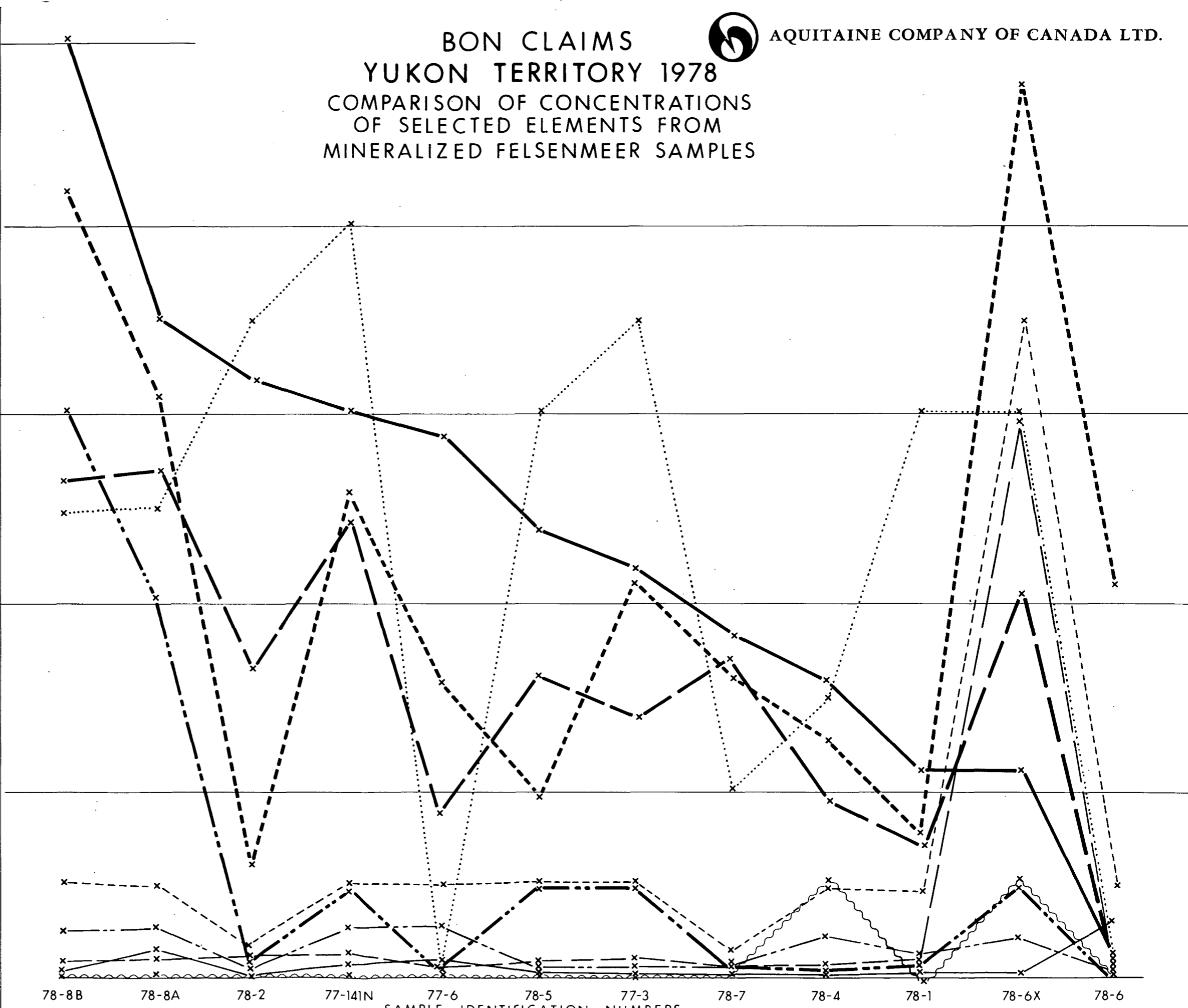
Fig. 15 G



# BON CLAIMS YUKON TERRITORY 1978 COMPARISON OF CONCENTRATIONS OF SELECTED ELEMENTS FROM MINERALIZED FELSENMEER SAMPLES

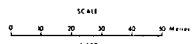
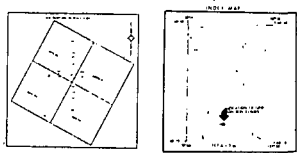
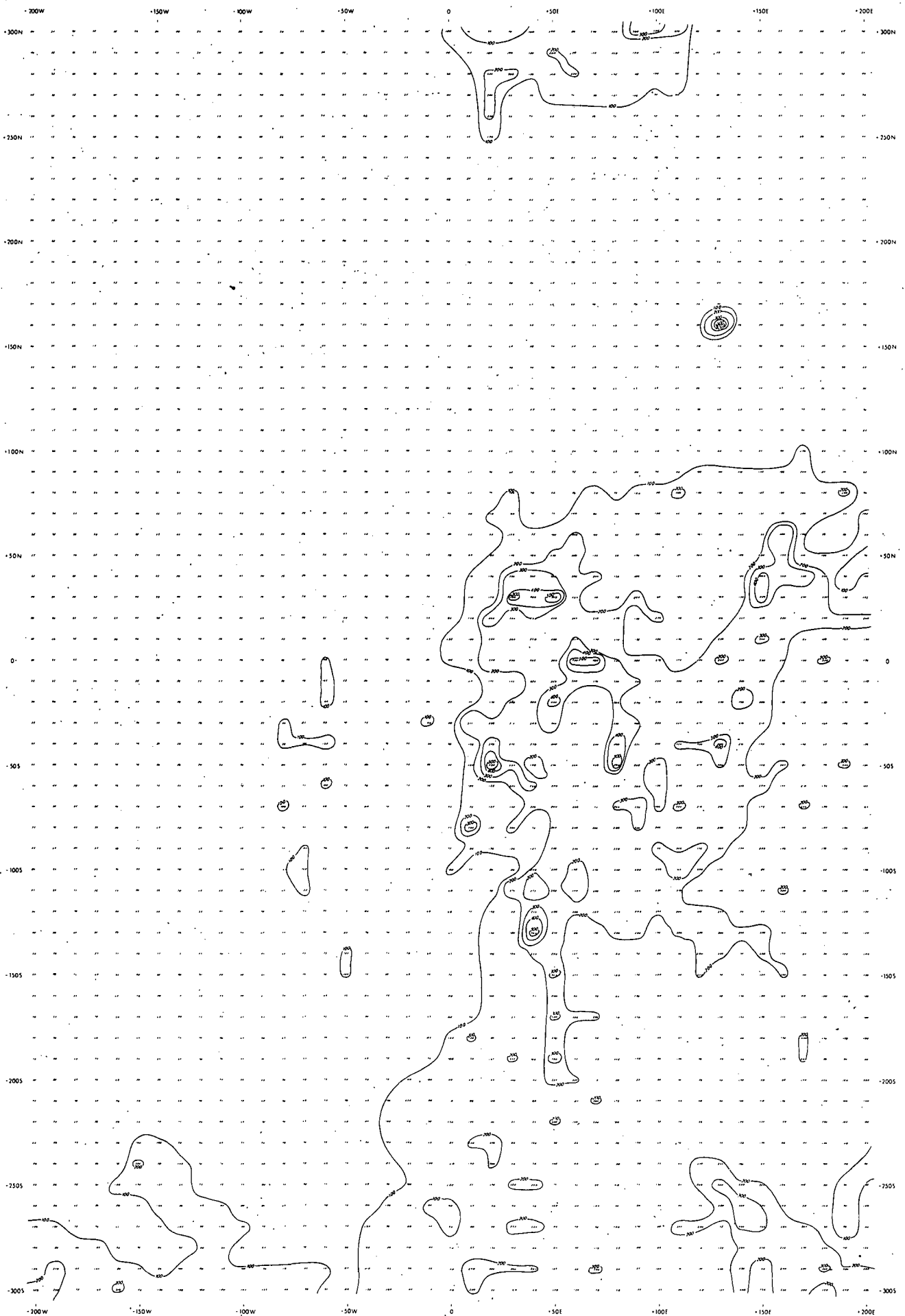
U	Th	P	F	C	Mn	Cu	Ni	Zn	V
0.05	0.01	0.50	0.5	1.0	0.01	0.1	0.05	0.1	0.25
0.04	0.008	20.0	0.4	0.8	0.008	0.08	0.04	0.08	0.20
0.03	0.006	15.0	0.3	0.6	0.006	0.06	0.03	0.06	0.15
0.02	0.004	10.0	0.2	0.4	0.004	0.04	0.02	0.04	0.10
0.01	0.002	5.0	0.1	0.2	0.002	0.02	0.01	0.02	0.05
0	0	0	0	0	0.00	0.00	0.00	0.00	0.00
U	Th	P	F	C	Mn	Cu	Ni	Zn	V

KEY WITH SCALES (%)



78-8B 78-8A 78-2 77-141N 77-6 78-5 77-3 78-7 78-4 78-1 78-6X 78-6  
SAMPLE IDENTIFICATION NUMBERS

1 2 3 4 5 6 7 8 9 10 11





**AQUITAINE COMPANY OF CANADA LTD.**  
 A SCINTILLOMETER SURVEY  
 OVER A SHOWING  
 ON THE BON CLAIMS  
 1977  
DATE: APR 1977 INT: 100 27 20 FIGURE NO

Fig. 16