

GEOLOGICAL & TOPOGRAPHICAL MAPPING REPORT

on the

DDB #1 to #3 Mineral Claims

Omineca M.D.

94 C/3E

$56^{\circ} 05' 35''$  N  $125^{\circ} 0' 44''$  W

Owner: D. K. Bragg

Operator: D. K. Bragg

Author: D. K. Bragg

Dec. 15, 1999

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

26,128

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## INTRODUCTION

In Aug. 1998 Dave Javorsky of Stewart B. C. gave me some results of Geophysical surveys that had been done on the northwestern corner of the PAR Property that also covered some of the southern portion of the Bev I & 2 claims that Mr. Javorsky had optioned out to Cominco, but had since been dropped. Mr. Javorsky wanted me to restake the geophysical anomalies and to see if these anomalies could be pinpointed in the field and explained by geology or by prospecting the area and testing for zinc using zinc zap.

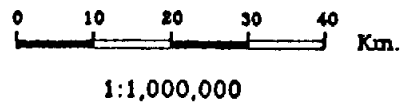
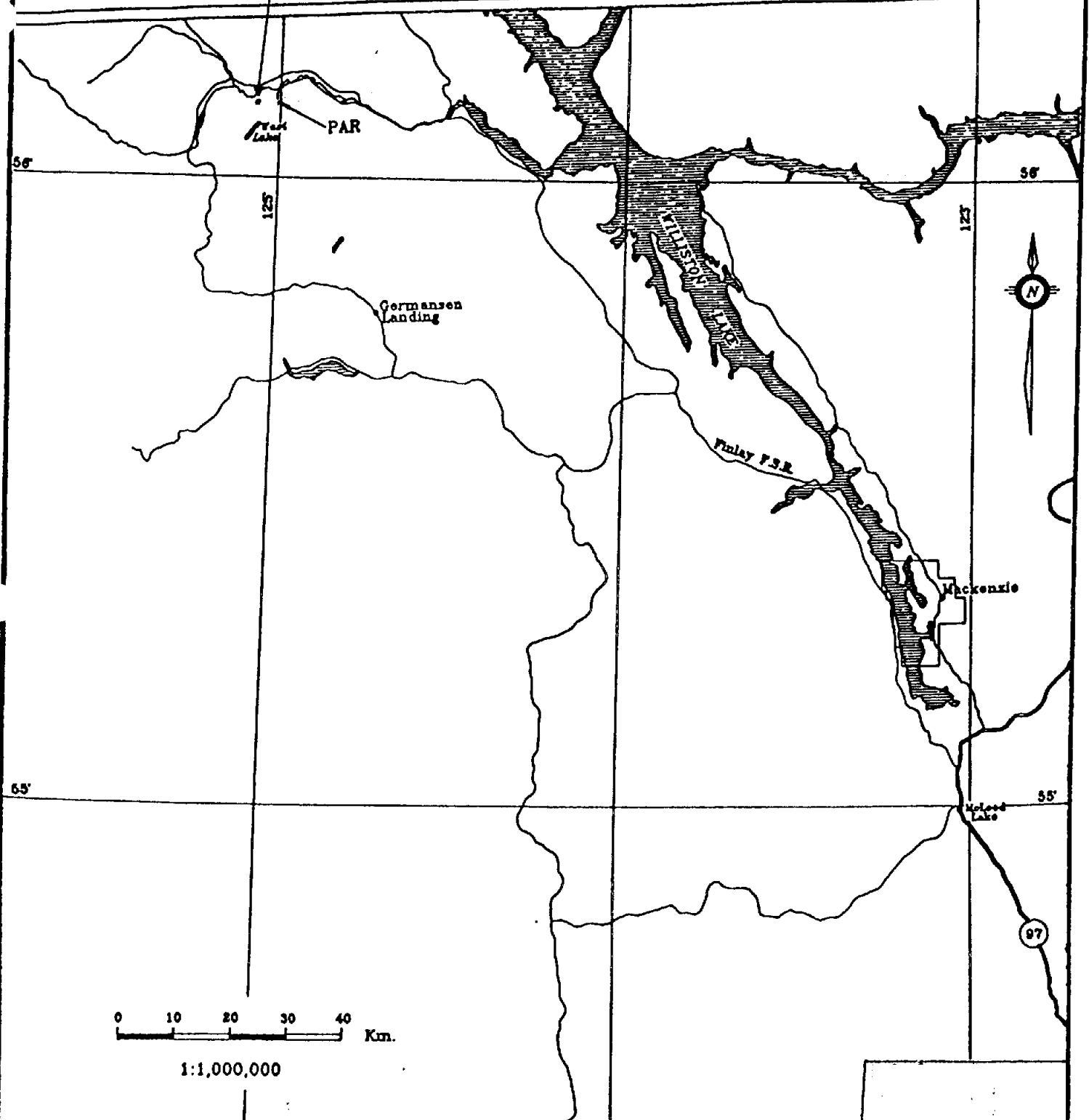
Three claims, the DDB # 1 to #3 were located on the 21 of Aug. 1998. On Aug. 22 a portion of the DDB claims was mapped for topography and geology.

## PROPERTY LOCATION & ACCESSIBILITY

The DDB claims lie 500 metres to the south of the Osilinka river, about 3 km. south of the Beveley property and 9 kilometers north of the north end of Wasi lake. The claims are about 220 km. northwest of Mackenzie B.C. The claims are reached from the Osilinka haul road on the south side of the river by taking the Clear Lake haul road. The claims are 54 km westerly from the Clear Lake turn off.

DDB # 2 and #3 are on a series of flat gravel benches, covered by jack pine, with elevations that range in elevation from 830 metres to 880 metres. These claims are easily traversed. On DDB #1 the elevations range from 870 to 1140 metres on the northwest side of the hill with very steep slopes and a series of limestone cliffs and benches. The forest cover on these slopes is mainly spruce pine and hemlock. Traverse on these slopes can be treacherous in places. ( See Fig. 1 to Fig 3. )

DDB #1 to 3



Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

### DDB #1 to #3 LOCATION MAP

Scale: 1,000,000      Date: Dec. 15, 1999      FIGURE 1

Mineral Titles  
94C3/E

Scale 1 - 50,000

Fig 2

MINERAL & PLACER RESERVE  
B.C. REG 245/96  
1996 SEP 12  
SUBJECT TO CONDITIONS

R A N G E

Map # 94C.3E  
Scale 1:50,000

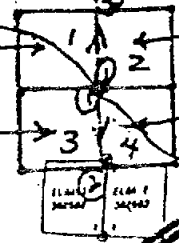
BEVELEY

Bullseye 1  
# 675838m

Bullseye 3  
# 675840m

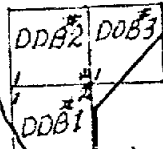
Bullseye 2  
# 675839m

Bullseye 4  
# 675841m



PAR 8

303721



PAR 2

242223

PAR 1

242222

RAP 1

308217

RAP 2

308218

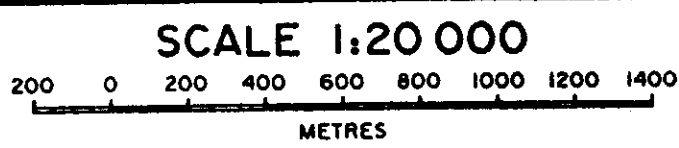
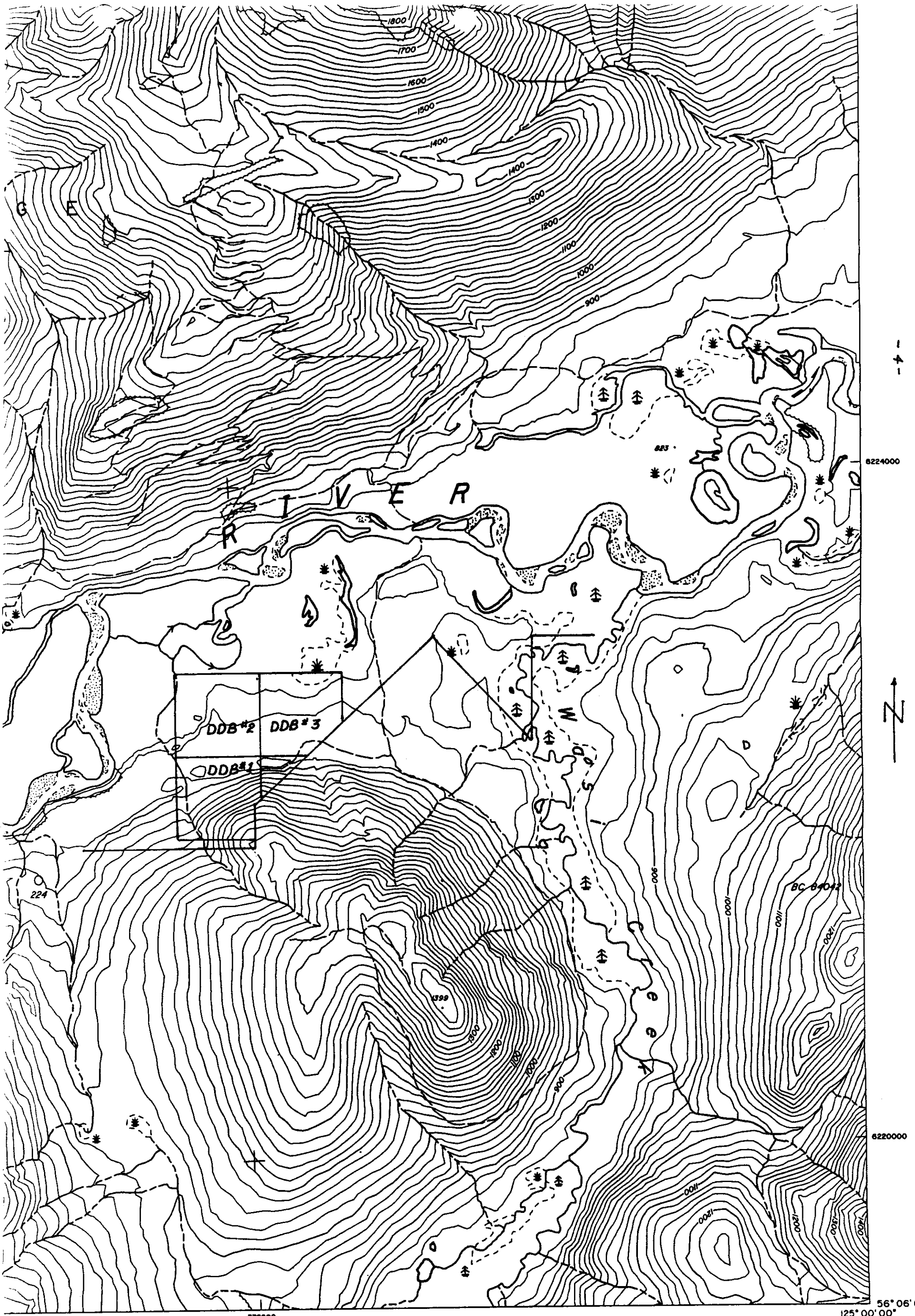
PAR 12

303725

PAR 7

242675

WAS...  
...  
...  
...



94C.015 DIGITAL  
Fig. 3

BC7331 № 243

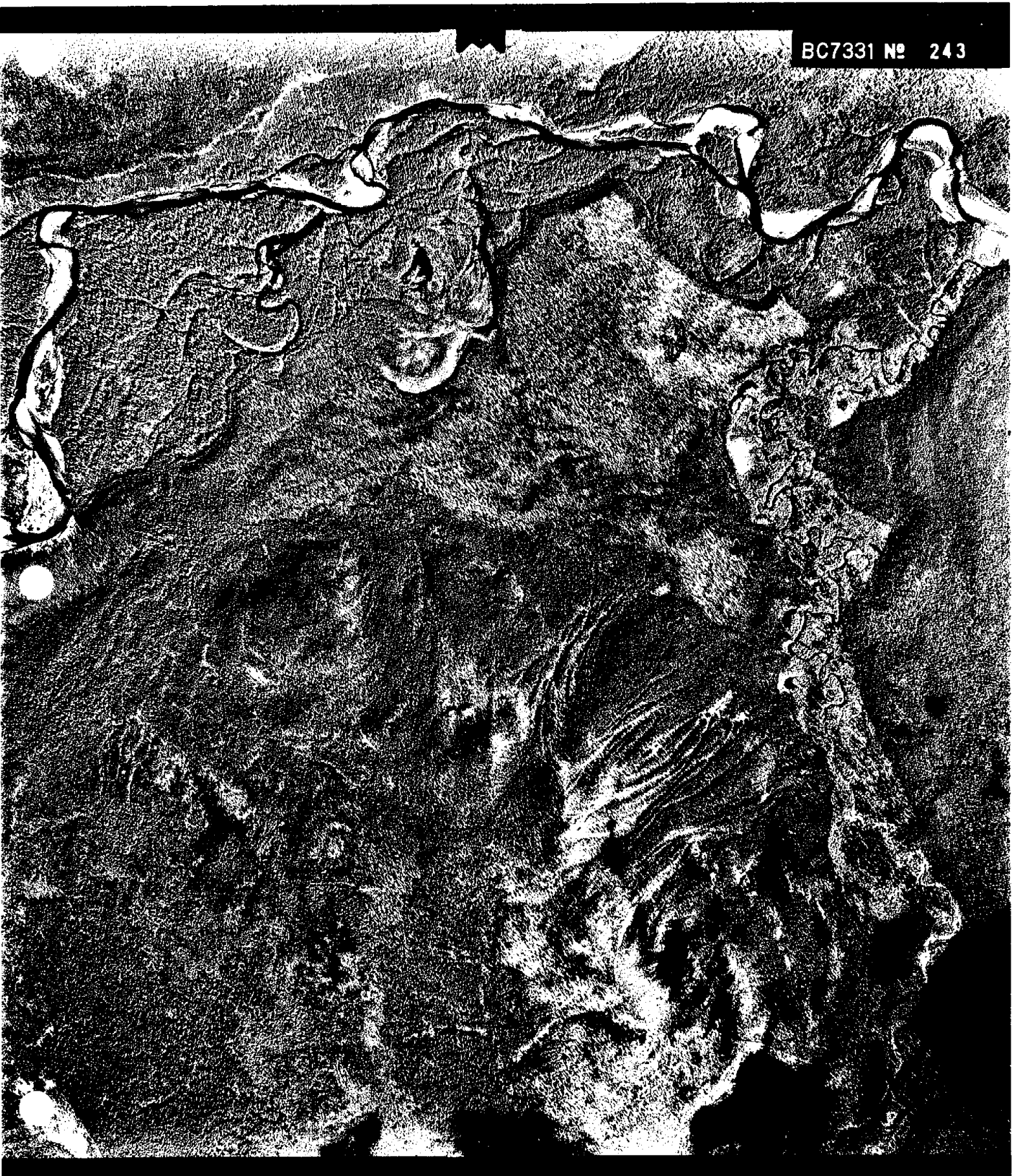


Fig 4

HISTORY

The discovery of lead zinc mineralization in this area dates from 1927 when a prospecting syndicate directed by Cominco were in the area. A good history of the area is outlined in the Annual Report of the Minister of Mines for 1952 by McCammon where he describes some of the properties, Beveley, Davis, Gordon, Weber etc. In 1973 an examination of the Beveley property was reported on by Garnett, MMAR 1973. Of all the properties in the area perhaps the Beveley has had the most work done on it.

- 1947 - 1951 Cominco
- 1967 - 1968 Donna Mines
- 1978 - 1979 Suzie Gold Mines
- 1990 - 1992 Cominco

Also during the period 1990 to 1995 Cominco were working on the PAR Property.

Most of the other properties in the area have had only sporadic work done on them over the years.

The DDB claims over stake some of the southern portion of the Bev claims and the CARA claim that existed in the late 1970's.

GEOLOGY

The DDB claims are underlain by rocks of the Cache Creek Group ( Armstrong 1945, Roots 1946, 1947, 1948 ) which are Pennsylvanian ? and Permian in age. The older member seen on the western portion of DDB # 2 consists of andesite and basaltic flows, tuffs, breccias, conglomerate, minor argillite, slate, chert and limestone. Here on the DDB# 2 this unit is mainly black shales with some argillite.

The younger group consists of limestone, minor argillite, chert and andesite, and is seen on the eastern portion of the claims where limestone is predominant.

After mapping the area it was thought that these two units may have been faulted into juxtaposition to each other although this was not confirmed to assurity.

On other properties such as the Beveley the limestone units have been dolomitized with the introduction of barite, zinc, galena and silver. These are the prime targets in the area.



### FIELD WORK

The DDB # 1 to # 3 claims were staked on the evening of Aug. 21, 1998. On Aug 22 the location line was re<sup>a</sup> chained and mapped along with 770 meters of cross lines that were put in. All roads, topographical features and geology were mapped where they intersected these lines. The roads and the rest of the features were mapped by chain and compass survey from these lines and along the roads. The geology was mapped but only the limestone outcrop were mapped in as this was the most important unit. Time did not allow mapping in detail the individual outcrops of the argillites, black slates and black shales. In the process of this mapping all the limestone outcroppings and much of the limestone rubble that had fallen from the hillside to the south of the location line was tested with zinc zap to test for the presence of hydrozincite.

An attempt was made to find the geophysical grid lines of the Cominco survey in order to tie in the anomaly locations to the area that was being mapped.

### RESULTS

Although some time was spent in trying to find Cominco geophysical survey grid both during the topographical and geological mapping and by just traversing the area in a north south direction no evidence of these lines could be found. Much of the area had been logged, probably since the grid had been established, and the grid has been lost. As a result the anomaly location could not be tied in on the ground.

Once back in the office an attempt was made to reconcile the different scale maps ie. the Cominco maps ( Fig. 6 to Fig. II, Scale 1 to 10,000 ) with the TRIM map, scale 1 to 20,000, and Fig 5 Topography and Geology map, scale 1 to 1000. There was some confusion between the different topographies of the maps.

At the best guess the coincident electromagnetic high, resistivity low, and the magnetic low between station I392 and I420 on line I0030 (Cominco maps Fig. 6 to Fig. II ) would appear to be between the two road branches along the axis I2 + 20 S I0 + 60 E and II + 25 S I2 + 00 E within the black shale argillite unit. Since this particular part of the claim was not visited and mapped in detail onsite no comment can be made on these anomalies at this time.

Although approximately 25 rocks from outcrop and boulders from the hill to the south of the location line were zinc zapped no positive results for hydrozincite were obtained.

#### CONCLUSIONS

Although the zinc zap did not give any positive reactions for hydrozincite on the rocks that were tested the area still warrants further prospecting within the limestone member.

The coincident electromagnetic high, resistivity low and magnetic low should be followed up with a detailed magnetometer survey and prospecting to pinpoint its position and then perhaps with other geophysical surveys. A more thorough search for the Cominco grid lines should be made, re-established and mapped.

STATEMENT OF COSTS

Wages D.K. Bragg I day at \$ 225.00 per day	225.00
Truck I day at \$ 50.00 per day	50.00
Food and camp	40.00
Pro-rated transportation costs	150.00
Report preparation, map reproduction and typing	275.00
	<hr/>
	\$ 740.00
P.A.C.	160.00
	<hr/>
Total	\$ 900.00

BIBLIOGRAPHY

EMPR AR 1952 - 98 - 109

EMPR GEM 1973 - 390 - 395; 1974- 290

EMPR EXPL 1975 - 158; 1976 - 168; 1977 - 212; 1978 - 240

EMPR FIELDWORK 1989, pp. 101- 114; 1991, pp 127 - 145; 1992 (Ferri et al.)

EMPR OF 1990 - 17; 1993 - 2

EMPR ASS RPT 5647, 5803, 6072, 6618, 7611

GSC MEM 274, p. 228

GSC MAP 1030A

STATEMENT OF QUALIFICATIONS

D.K. Bragg *did* the work involved in this investigation,

His qualifications are as follows.

Graduated Armstrong High School, Armstrong B.C., 1951

Attended U. B. C. from 1958 to 1962 in Arts and Science; Honors Geology.

Has worked in the mineral exploration industry since 1956.

Worked for Kennco Explorations during the summers of 1956, 1957, and 1959 in the Yukon and northern B.C. as an assistant prospector and geochem sampler under the direction of Dr. R. Campbell and R. Woodcock.

Worked as head prospector for the Nahanni 60 Syndicate in the Northwest Territories in 1960 under the direction of Doug Wilmont.

Worked as head prospector in the Yukon for Dualco in 1961 under the supervision of E. Wozniak.

Worked as head prospector for Mining Corp. of Canada in southwest B.C. in 1962 under J. S. Scott and Dr. K. Northcote.

Worked as head prospector during the summer of 1963 for the Francis River Syndicate in central Yukon, under the direction of Dr. A. Aho

Worked as field geologist in the Greenwood area of B.C. for Scurry Rainbow Oil.

Worked as field supervisor for Alray Explorations Ltd. from Sept 1965 to April 1967 under the direction of Rae Jury.

Since 1956 has also worked as a self employed contractor, working for various mining companies in the following fields: prospecting, property examination, staking claims, line cutting, topographical mapping, geological mapping and reconnaissance, mineral sampler, drafting, air photo interpretation, geochemistry, geophysics, and supervising property exploration programs. Since 1956 has also been a self employed prospector working in various areas in B.C. on numerous properties.

Has assisted in teaching the geochemical section of the Ministry of Energy, Mines & Petroleum Resources Mineral Exploration Course For Prospectors under the direction of Dr. S. Hoffman in 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991

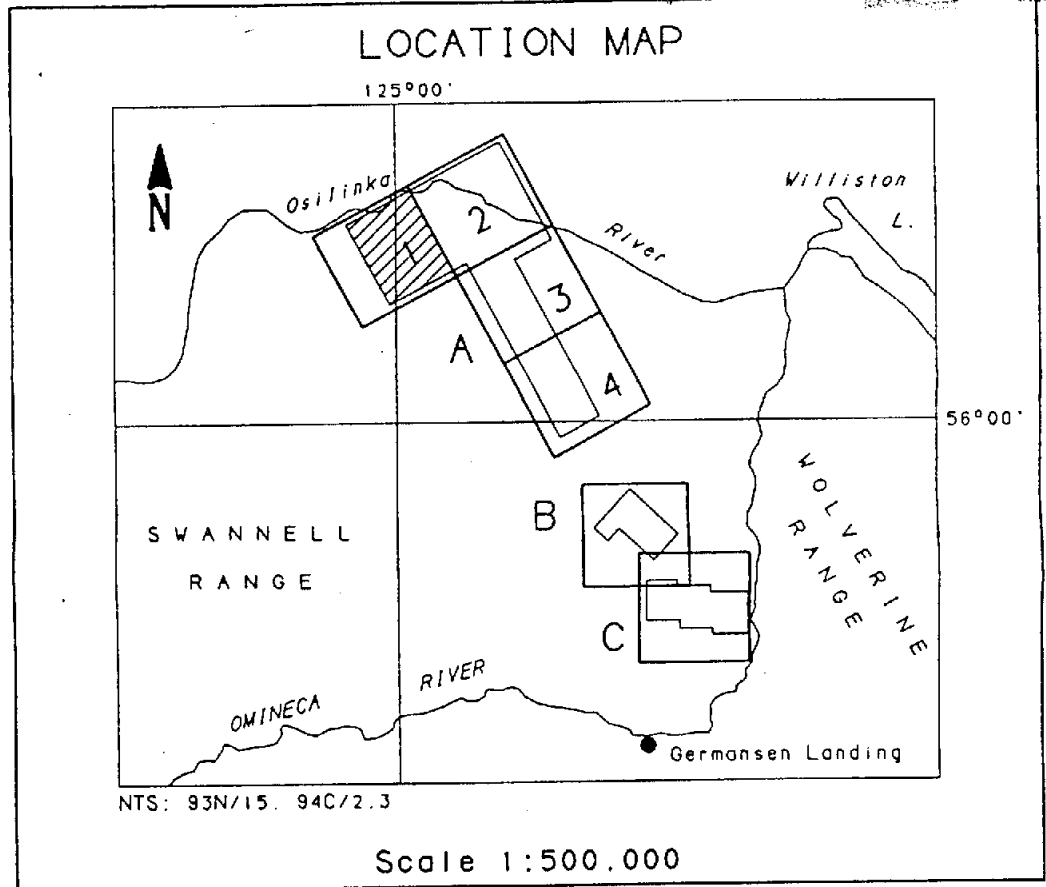
Has received the B.C. Provincial Grubstake for the years 1964, 1968, 1969, 1970, 1980, 1981, 1982, 1983, 1985, 1986, 1987, 1988, 1989, 1990.

Has worked in the Rossland Camp since 1971 as a miner on the Snowdrop and Bluebird claims. Has spent considerable time in the camp as a prospector and mining exploration contractor.

- 900 Hz coaxial inphase 5.0 ppm/mm
- 900 Hz coaxial quadrature 5.0 ppm/mm
- - - - 900 Hz coplanar inphase 5.0 ppm/mm
- - - - 900 Hz coplanar quadrature 5.0 ppm/mm

GEOLOGICAL SURVEY BRANCH  
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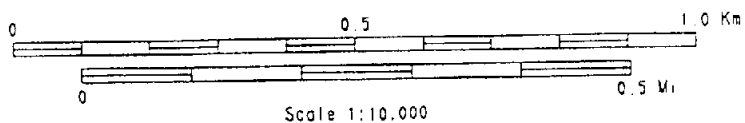
**COMINCO EXPLORATION  
OSILINKA AREA, B.C.**

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**ELECTROMAGNETIC PROFILES (900 Hz)**

DIGHEM SURVEY	NTS: 93N/15, 94C/2.3	GEOPHYSICIST: D.M.
DATE: NOVEMBER 1991	JOB: 1117	SHEET: A-1

**DIGHEM SURVEYS & PROCESSING INC.**

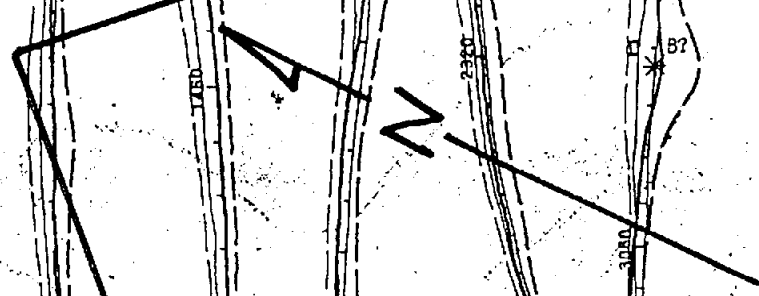


**Dighem**

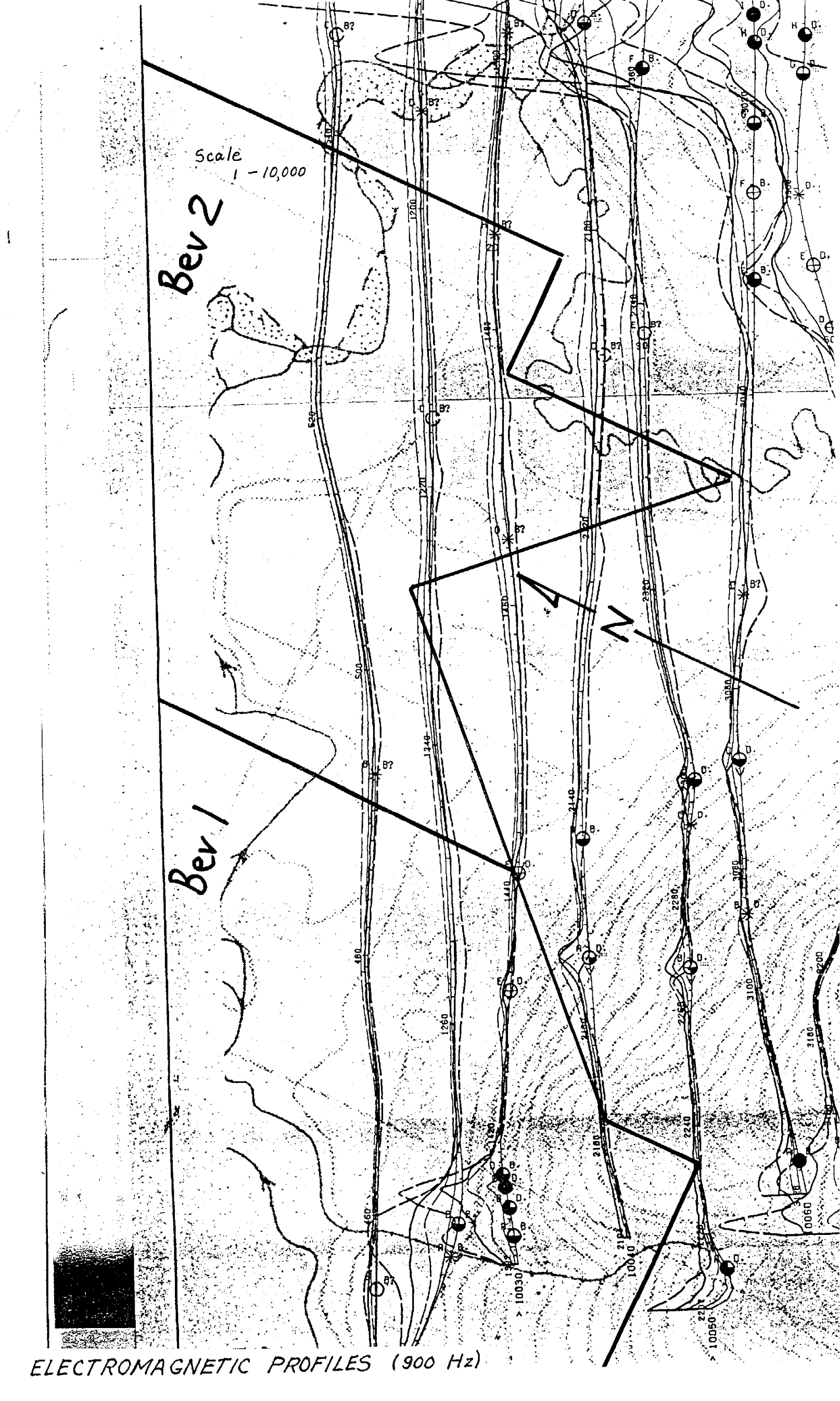
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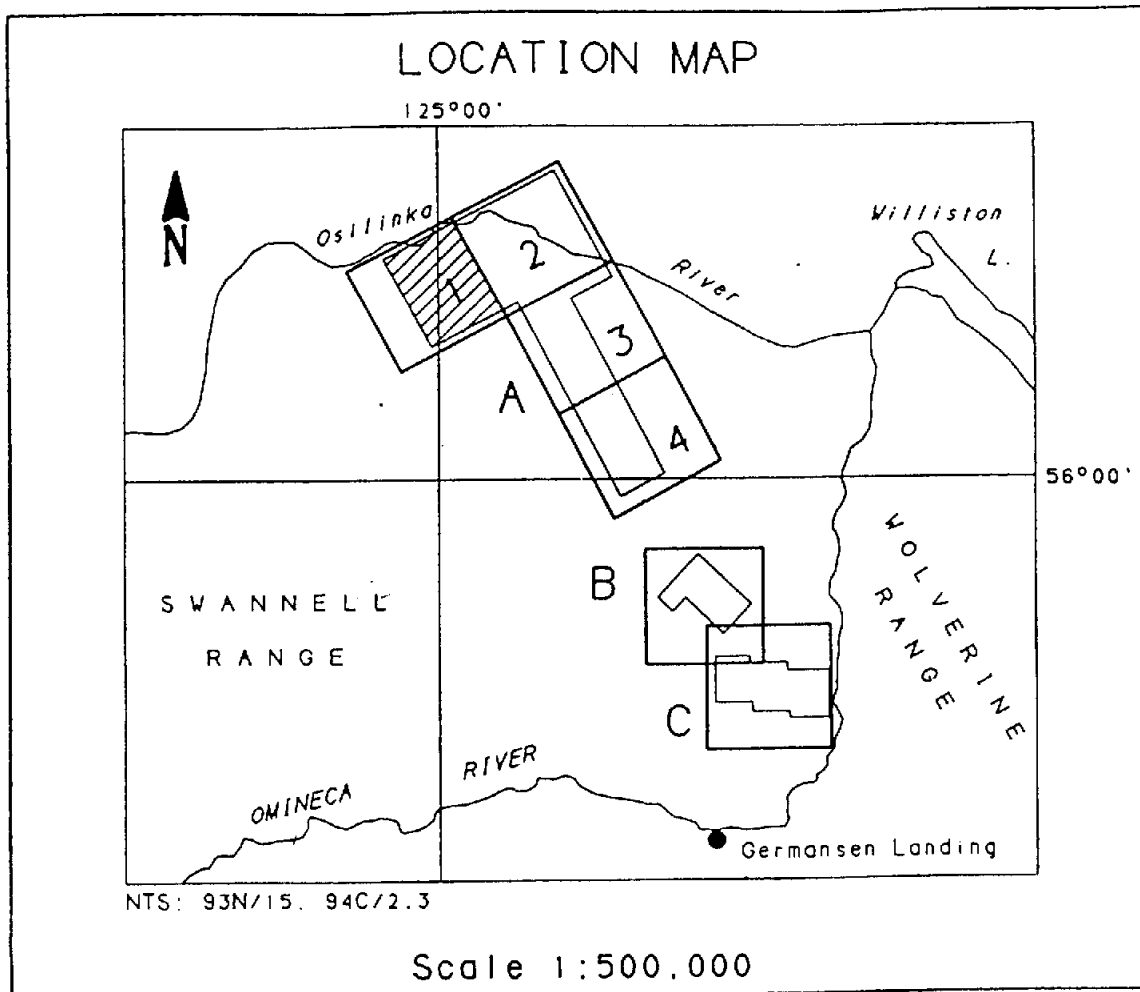
Scale  
1 - 10,000

Bev 1



ELECTROMAGNETIC PROFILES (900 Hz)

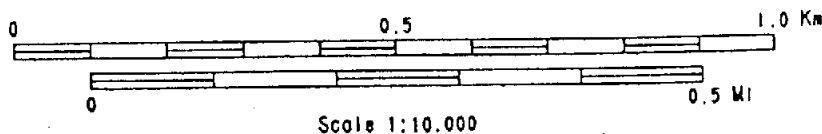




## COMINCO EXPLORATION OSILINKA AREA, B.C.

### ELECTROMAGNETIC ANOMALIES

DIGHEM <sup>®</sup> SURVEY	NTS: 93N/15, 94C/2.3	GEOPHYSICIST: D.M
DATE: NOVEMBER 1991	JOB: 1117	SHEET: A-1
DIGHEM SURVEYS & PROCESSING INC.		

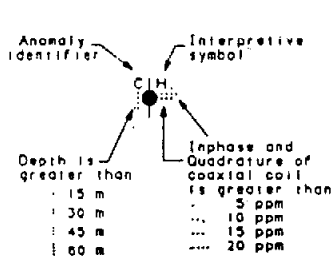


#### EM LEGEND

Grade	Anomaly	Conductance
7	●	≥100 siemens
6	⊙	50-100 siemens
5	⊕	20-50 siemens
4	⊗	10-20 siemens
3	⊖	5-10 siemens
2	○	1-5 siemens
1	⊙	<1 siemens
-	*	Questionable anomaly



### GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT



Interpretive symbol	Conductor ('model')
B	Bedrock conductor
D	Narrow bedrock conductor ('thin dike')
S	Conductive cover ('horizontal thin sheet')
H	Broad conductive rock unit, deep, conductive weathering, thick conductive cover ('half space')
E	Edge of broad conductor ('edge of half space')
L	Culture, e.g. power line, building, fence

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Scale  
1-10,000

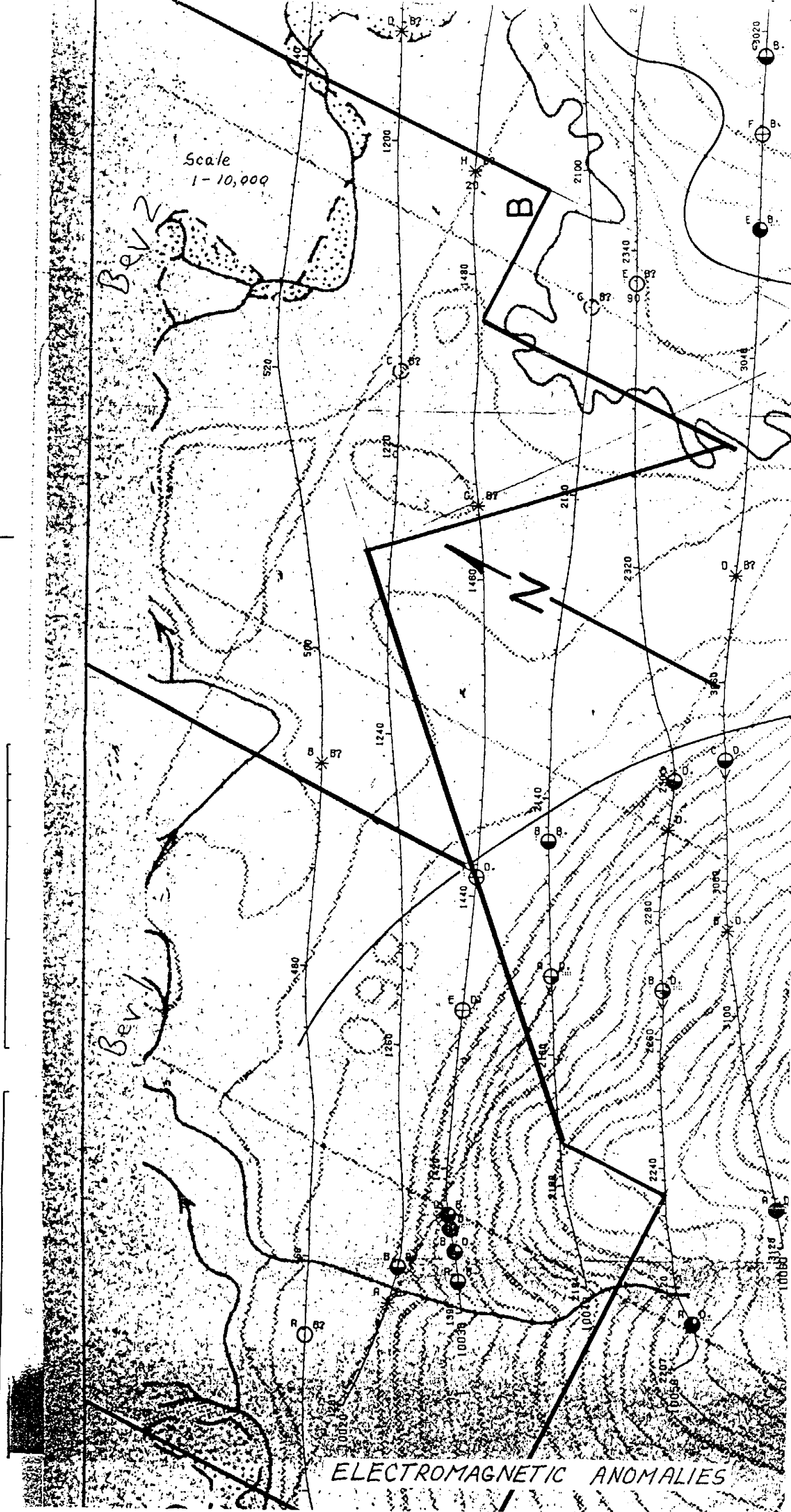
Bev

Bev

B

N

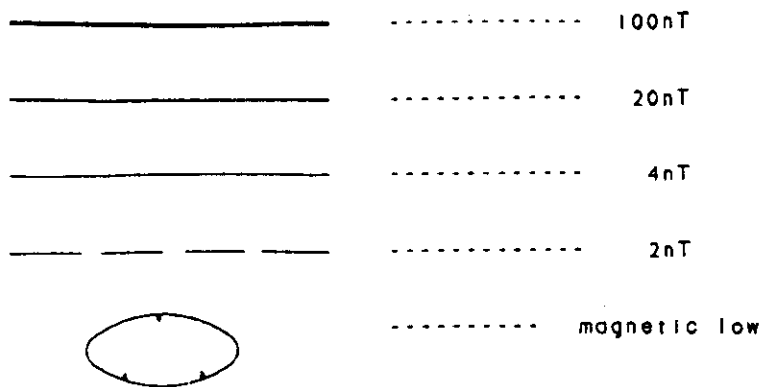
ELECTROMAGNETIC ANOMALIES





CONTOUR INTERVALS

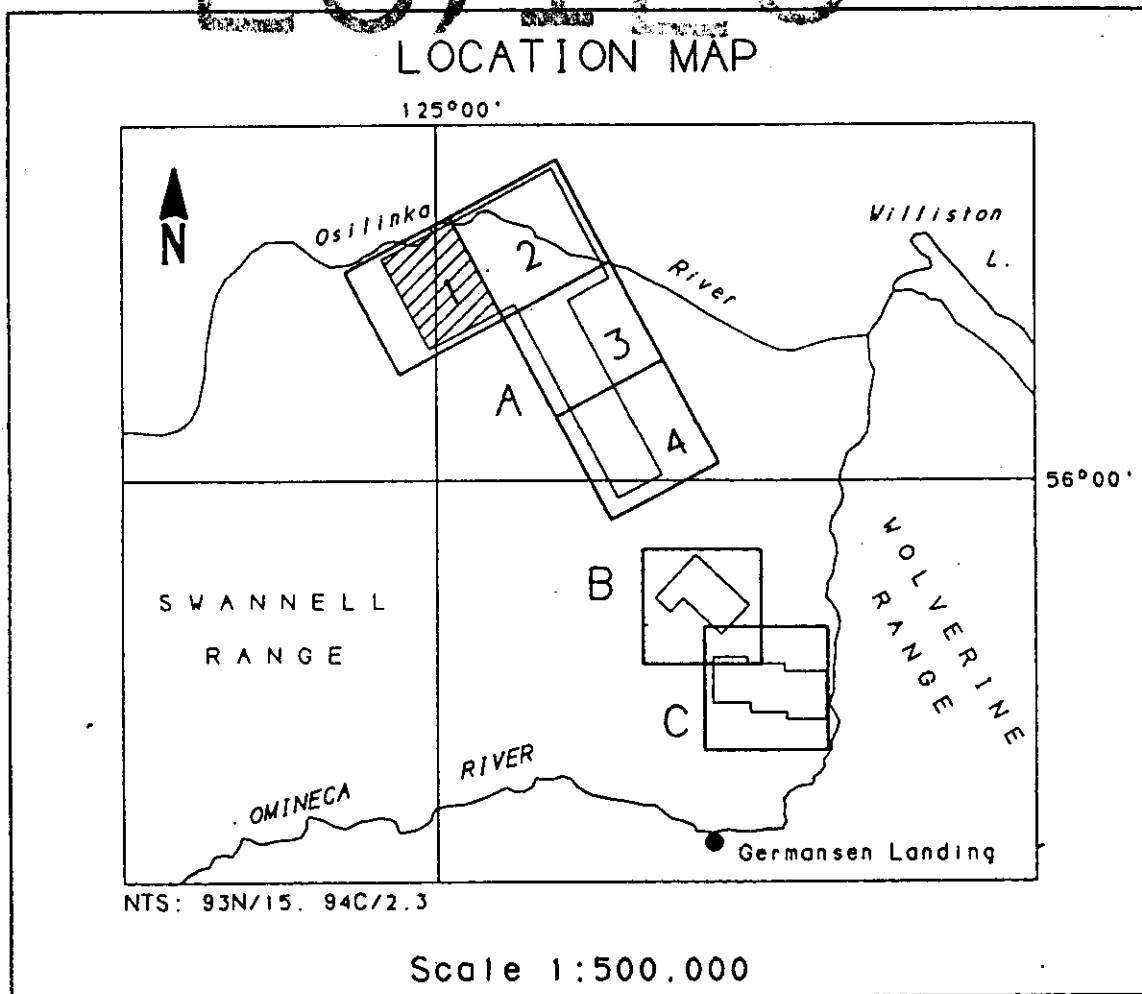
Fig 6



Magnetic inclination within the survey area: 75 degrees

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ASSESSMENT REPORT

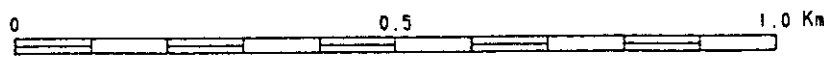
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COMINCO EXPLORATION  
OSILINKA AREA, B.C.

TOTAL FIELD MAGNETICS

DIGHEM SURVEY	NTS: 93N/15. 94C/2.3	GEOPHYSICIST: D.M
DATE: NOVEMBER 1991	JOB: 1117	SHEET: A-1
DIGHEM SURVEYS & PROCESSING INC.		

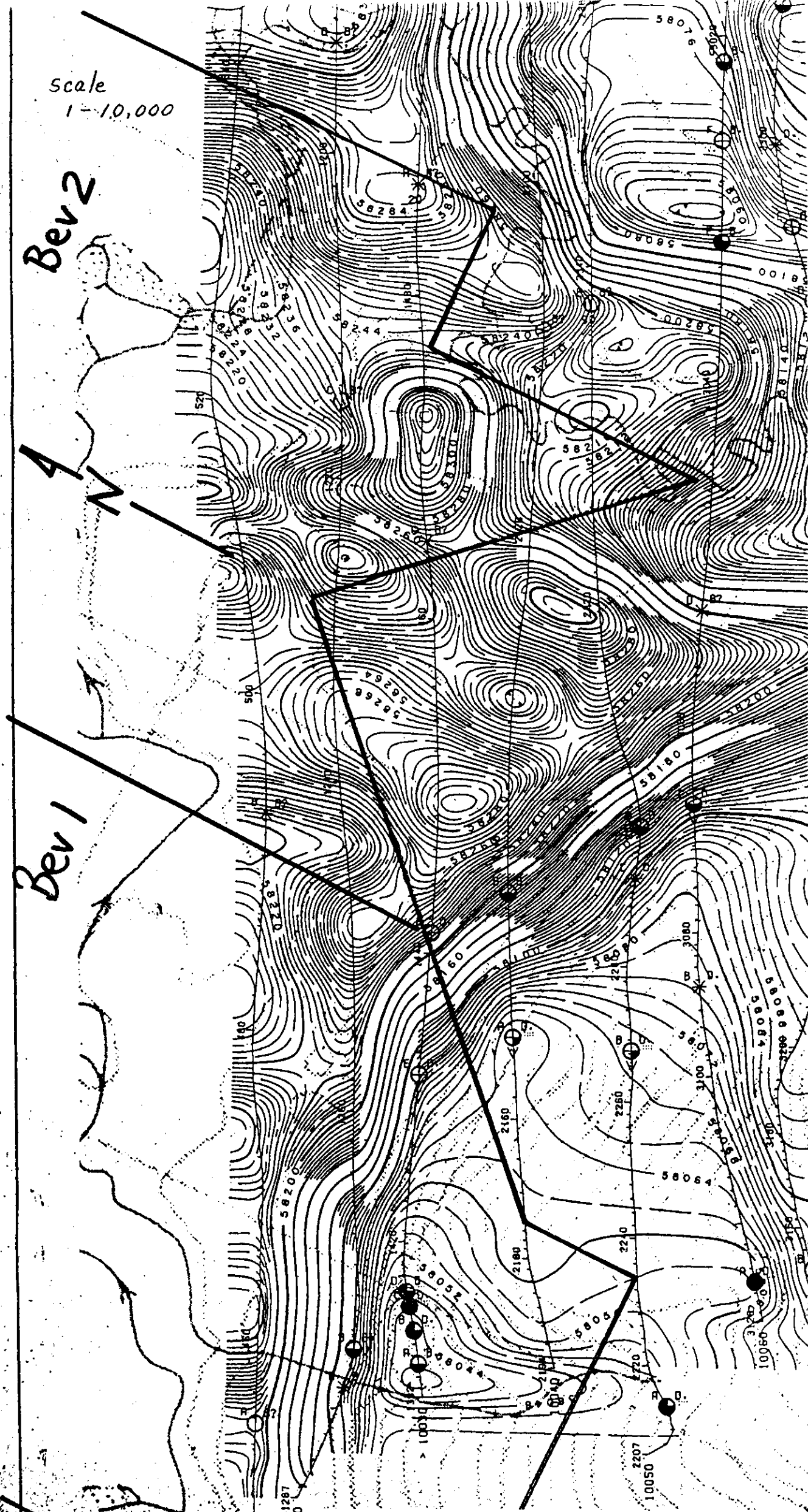


scale  
1:10,000

Dev 2

A  
N

Dev 1

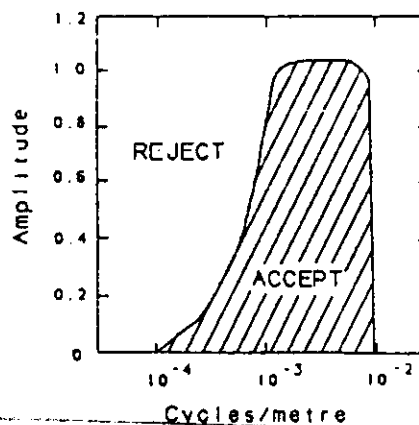
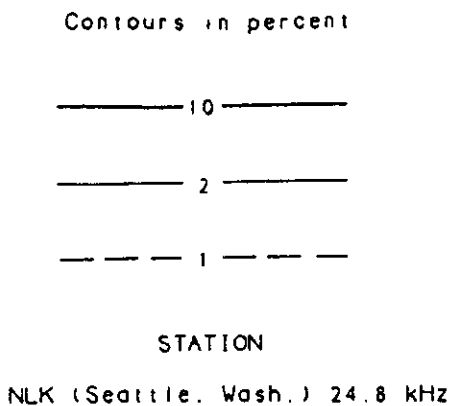


TOTAL FIELD MAGNETICS

CONTOURS

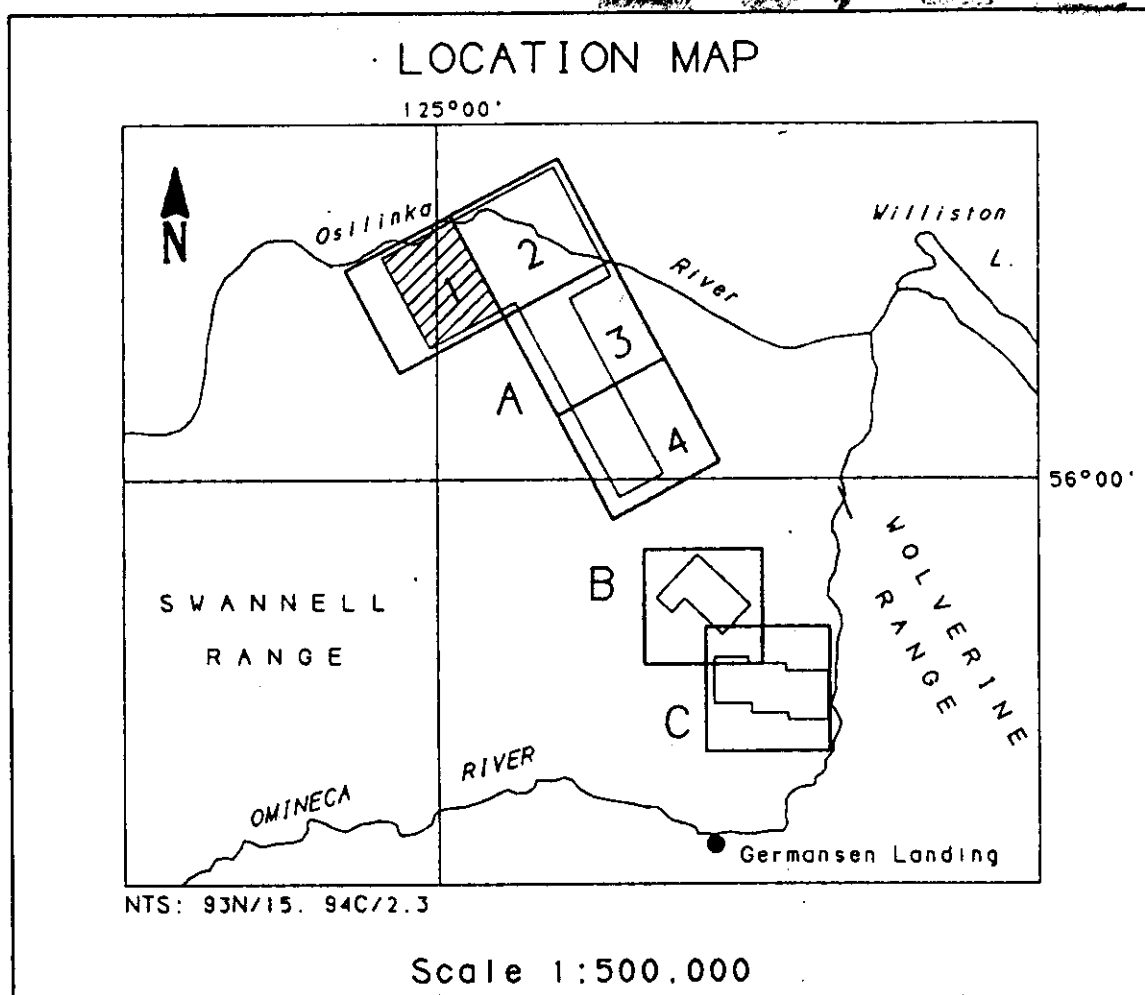
Frequency response  
of VLF-EM filter

Fig. 7



MINERAL BRANCH  
GEOLOGICAL SURVEY OF CANADA

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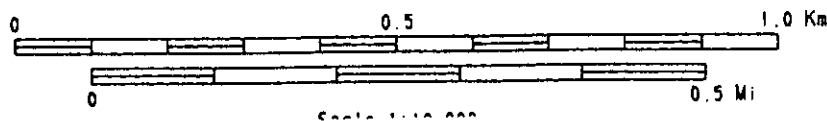


COMINCO EXPLORATION  
OSILINKA AREA, B.C.

FILTERED VLF

DIGHEM <sup>®</sup> SURVEY	NTS: 93N/15, 94C/2.3	GEOPHYSICIST: D.M.
DATE: NOVEMBER 1991	JOB: 1117	SHEET: A-1

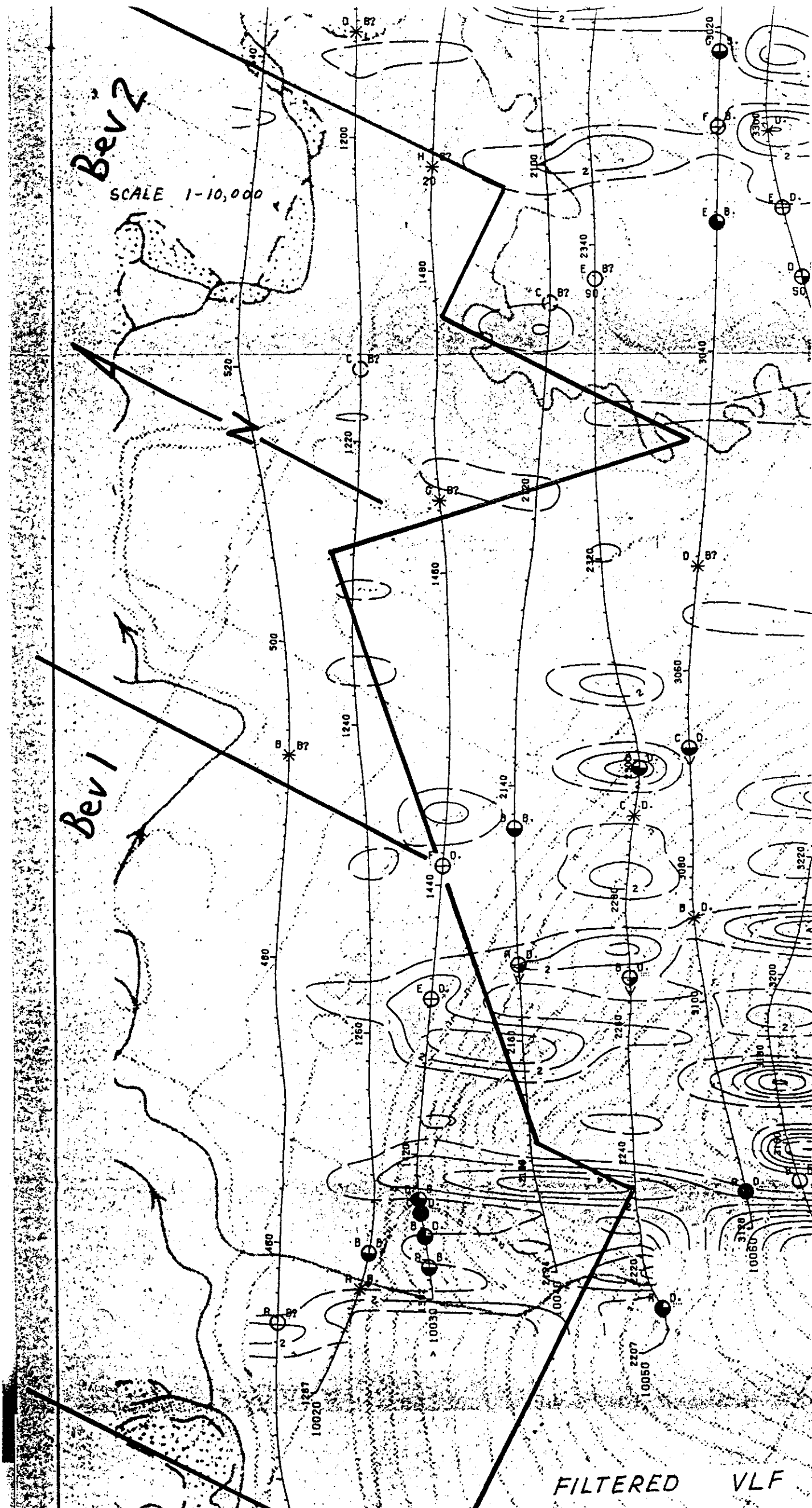
DIGHEM SURVEYS & PROCESSING INC.



Bev 2

SCALE 1-10,000

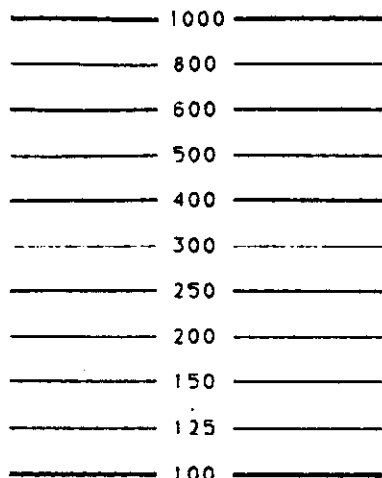
Bev 1



FILTERED VLF

CONTOUR LEVELS

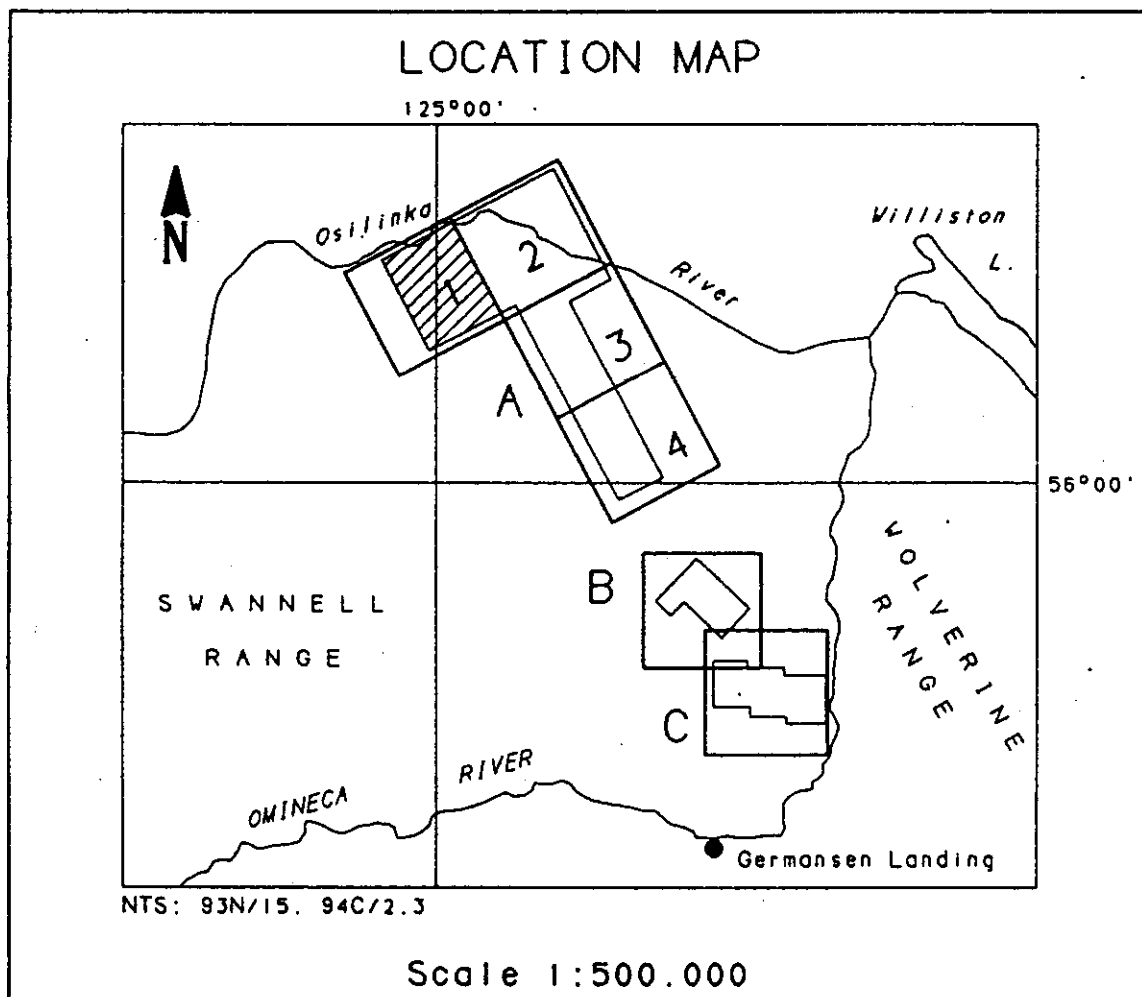
Fig. 11



Contours in ohm-m  
at 10 intervals per decade

GEOLOGICAL SURVEY BRANCH  
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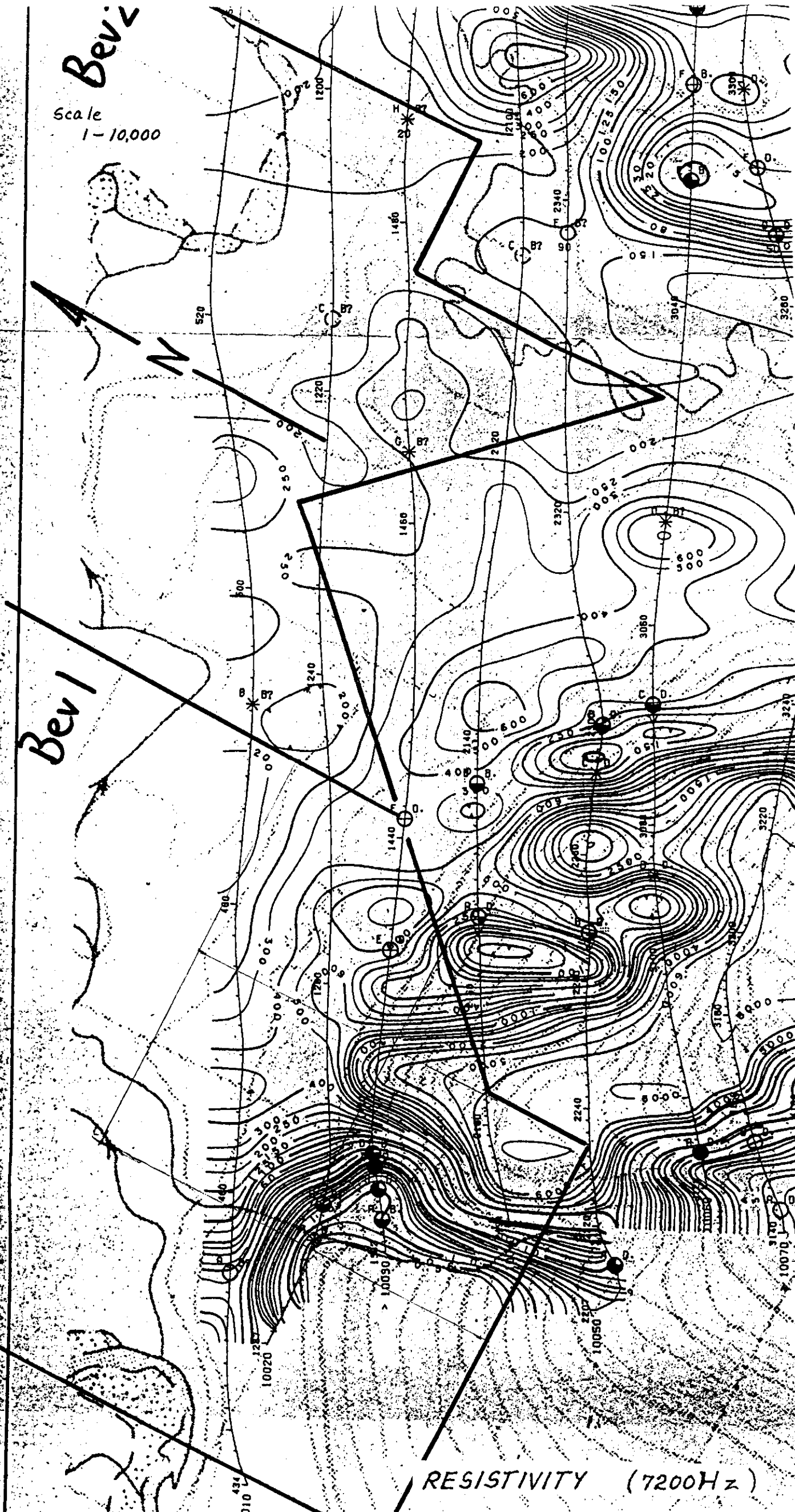
COMINCO EXPLORATION  
OSILINKA AREA, B.C.

RESISTIVITY ( 7200 Hz )

DIGHEM <sup>®</sup> SURVEY	NTS: 93N/15, 94C/2.3	GEOPHYSICIST: D.M.
DATE: NOVEMBER 1991	JOB: 1117	SHEET: A-1
DIGHEM SURVEYS & PROCESSING INC.		

1 CM = 100 M

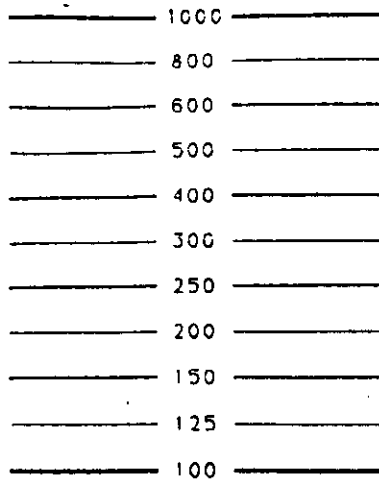
Bevi  
Scale  
1-10,000



RESISTIVITY (7200Hz)

CONTOUR LEVELS

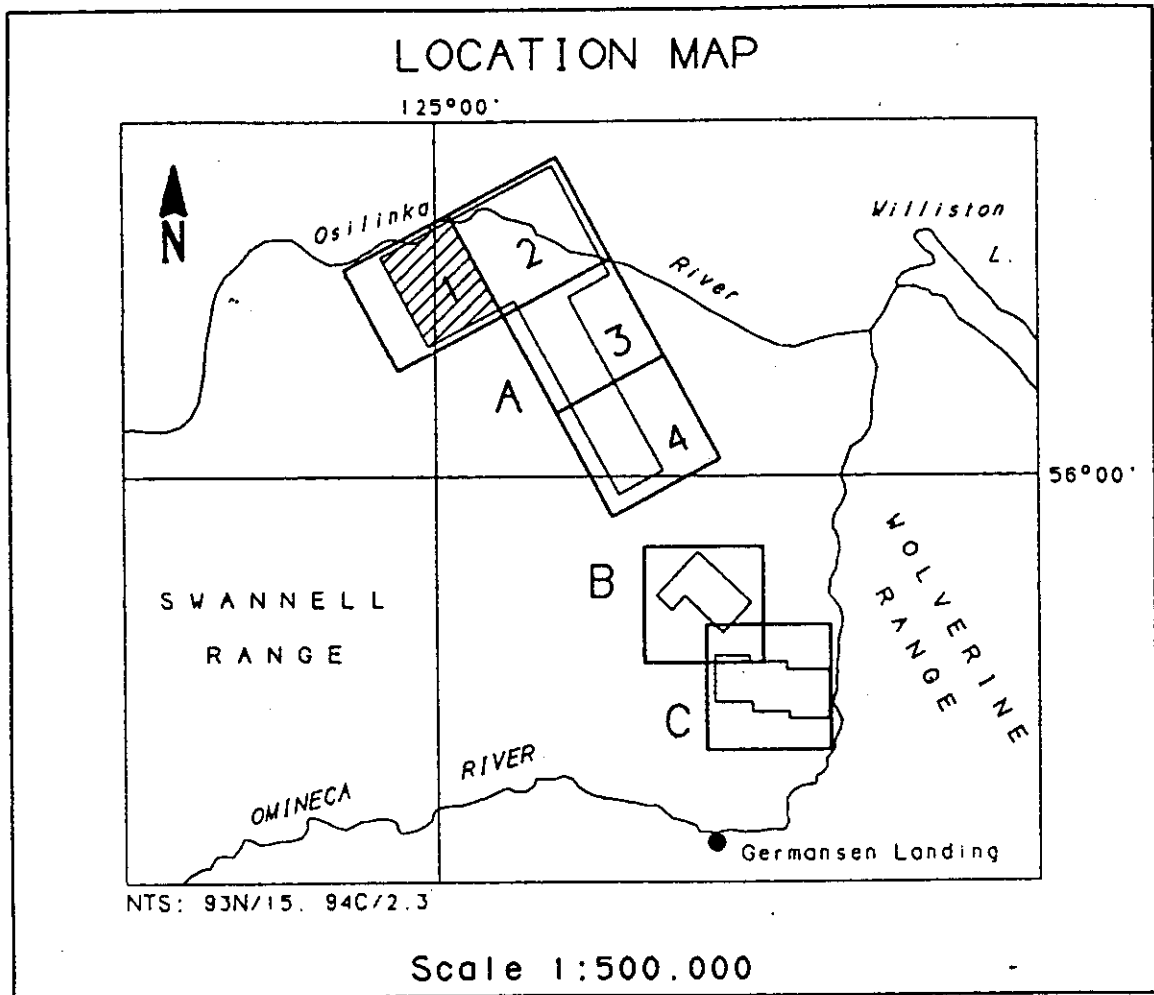
Fig. 10



Contours in ohm m  
at 10 intervals per decade

GEOLOGICAL SURVEY BRANCH  
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COMINCO EXPLORATION OSILINKA AREA, B.C.		
RESISTIVITY (900 Hz)		
DIGHEM <sup>®</sup> SURVEY	NTS: 93N/15, 94C/2.3	GEOPHYSICIST: D.M.
DATE: NOVEMBER 1991	JOB: 1117	SHEET: A-1
DIGHEM SURVEYS & PROCESSING INC.		

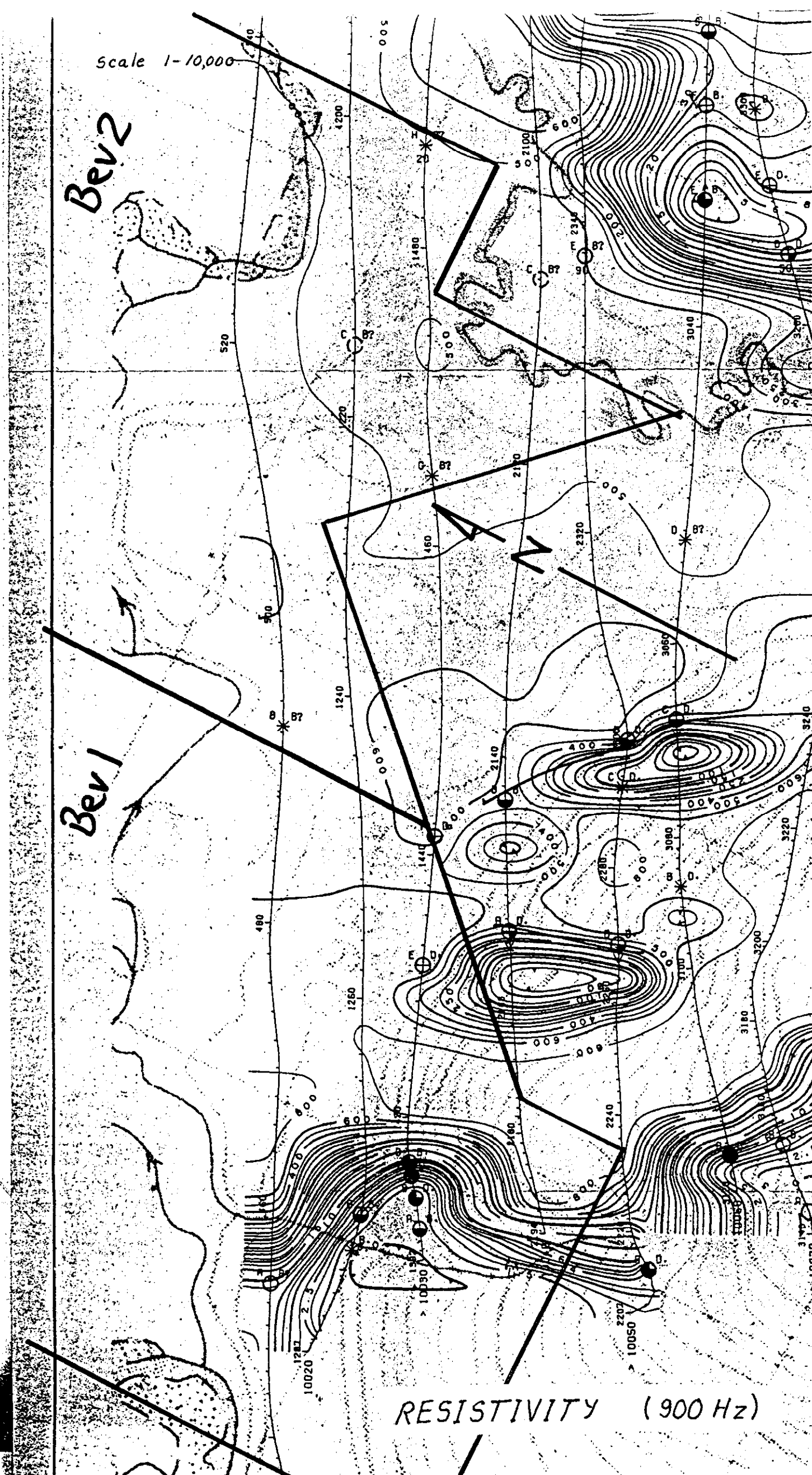


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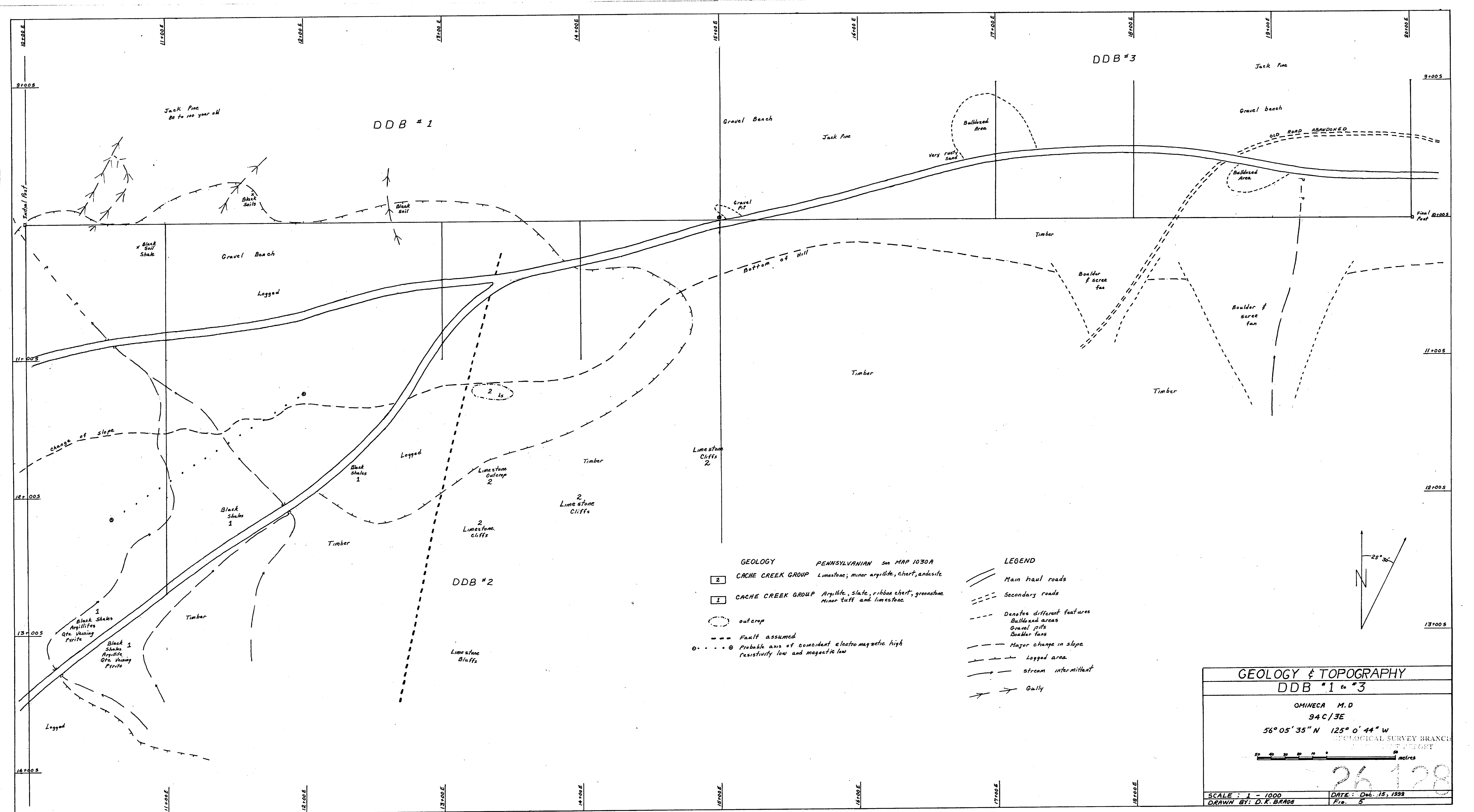
Bev 2

Bev 1

RESISTIVITY (900 Hz)







- GEOLOGY**
- 2 **CACHE CREEK GROUP** PENNSYLVANIAN see MAP 1030A  
Limestone; minor argillite, chert, andesite
  - 1 **CACHE CREEK GROUP** Argillite, slate, ribbon chert, greenstone  
Minor tuff and limestone
  - outcrop
  - - - Fault assumed
  - o . . . . o Probable axis of coincident electromagnetic high  
resistivity low and magnetic low

- LEGEND**
- Main haul roads
  - Secondary roads
  - - - Denotes different features  
Bulldozed areas  
Gravel pits  
Boulder fans
  - - - Major change in slope
  - - - Logged area
  - - - stream intermittent
  - Gully

<b>GEOLOGY &amp; TOPOGRAPHY</b>	
<b>DDB #1 to #3</b>	
OMINECA M.D.	
94C/3E	
56° 05' 35" N 125° 0' 44" W	
GEOLOGICAL SURVEY BRANCH	
1:50,000	
metres	
26128	
SCALE: 1 = 1000	DATE: Dec. 15, 1999
DRAWN BY: D.K. BRAGG	FIG. 5