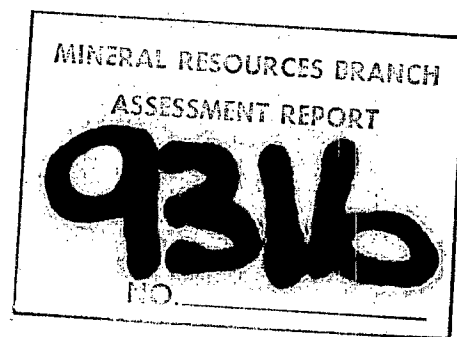


81-#560
- 9316

GEOPHYSICAL REPORT

JANSON CREEK PROPERTY

Nelson Mining Division



Covering: Maria #1

Mary #1,#2,#3,#4,#6,#8,#9

Mohawk #1,#2

St. Jude #1

Field work completed between 30 April and 2 May 1981

- Location:
- (1) 49 19' North, 116 38.5' West
 - (2) N.T.S. Map 82 F/7
 - (3) 27 kilometres NNW of Creston, B.C.

By

Ager Berretta & Associates Inc

206 595 Howe Street

Vancouver B.C.

May 1981

AGER, BERRETTA & ASSOCIATES INC.

Telephone: (604) 669-7748

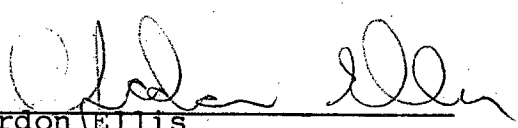
CONSULTING
GEOPHYSICISTS

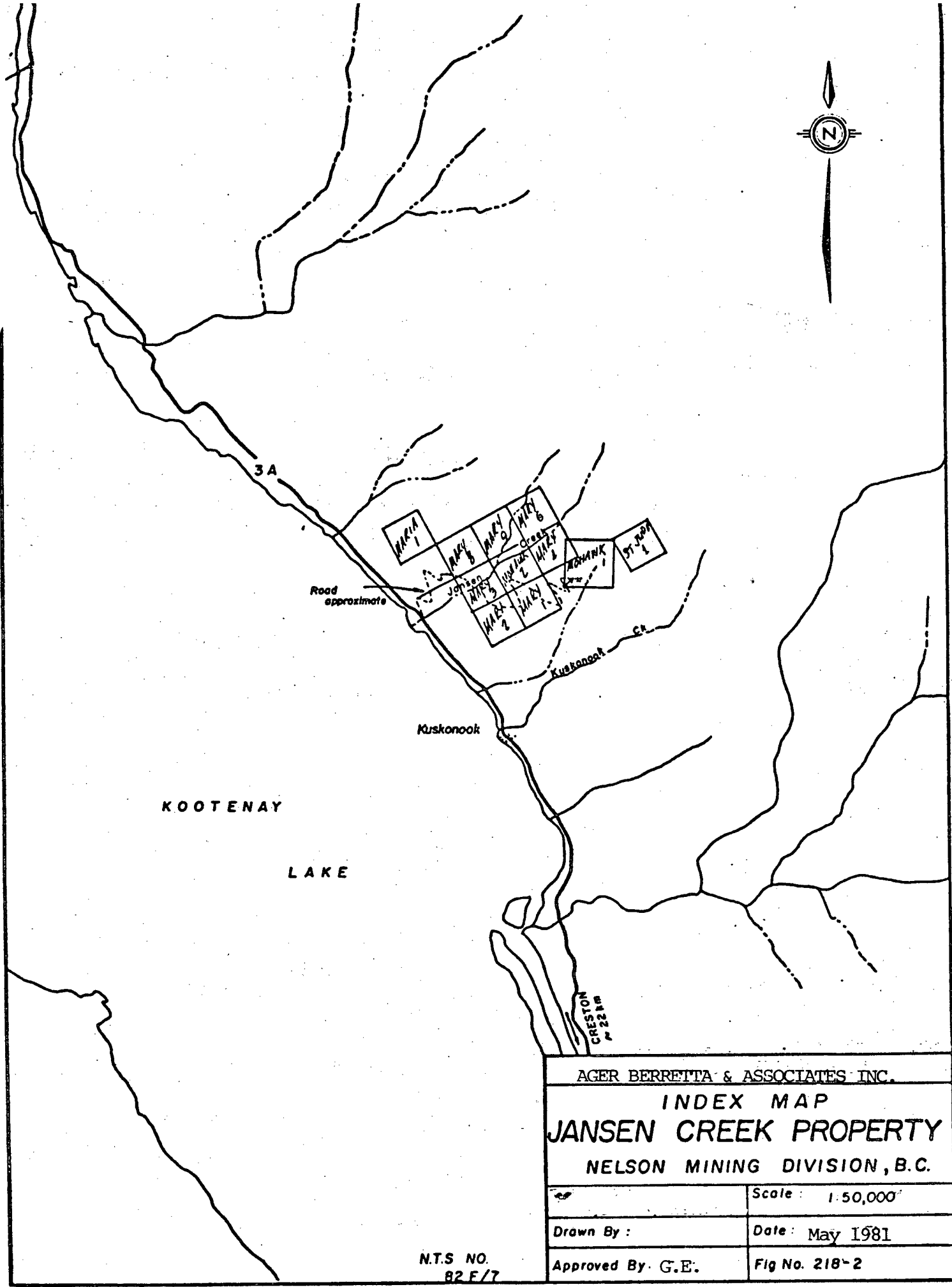
206 - 595 Howe Street
Vancouver, B.C., Canada
V6C 2T5

SUMMARY

VLF electromagnetic and magnetic surveys have been carried out over the Jansen Creek property near Creston B.C. A number of geological horizons have been delineated by the VLF. Further geological investigations to determine the source of the geophysical responses are recommended before any further work is carried out.

Respectfully submitted


Gordon Ellis
Geophysicist



KOOTENAY
LAKE

AGER BERRETTA & ASSOCIATES INC.

INDEX MAP
JANSEN CREEK PROPERTY
NELSON MINING DIVISION, B.C.

	Scale: 1:50,000'
Drawn By:	Date: May 1981
Approved By: G.E.	Fig No. 218-2

N.T.S NO.
82 F/7

Contents

Summary	
Introduction	page 1
Survey Equipment and Procedures	page 1
Results and Interpretation	page 1
Conclusion	page 3

Figures

- 1 Location Map
- 2 VLF Field Strength
- 3 VLF Dip Angle (Faser Filtered)
4. Magnetic Contours

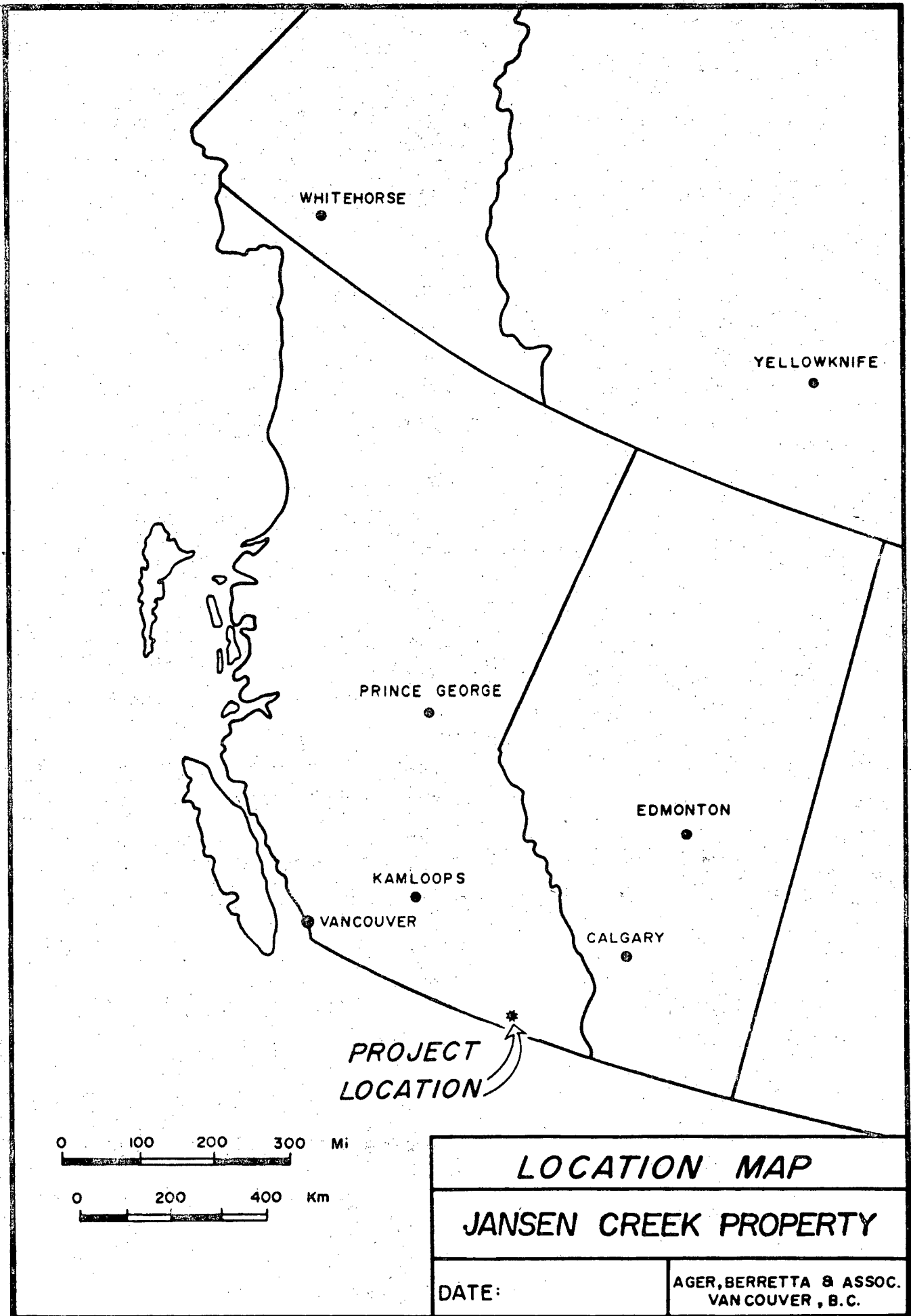


FIGURE 1

JANSEN CREEK PROPERTY

At the request of M.K. Lorimer, P.Eng., Ager, Berretta and Associates Inc. carried out reconnaissance VLF and Magnetic surveys on the Jansen Creek Property, Nelson Mining Division.

The Jansen Creek property is located immediately east of the south end of Kootenay Lake in southeastern British Columbia (figure 1) The town of Creston is situated approximately 27 km. south south-east of the claim group. Geographic co-ordinates for the center of the claims are $49^{\circ} 19'$ north latitude and $116^{\circ} 38.5'$ west longitude, on NTS map no 82 F/7.

Ager, Berretta and Associates' crew was shown to the property by Robert Baumgartner and around the property by John Eimer, the current owner of the claims.

Survey Equipment and Procedures

Survey lines were put in using compass and chain. Survey stations are at 15 metre intervals and lines are 100 and 200 metres apart as indicated on Figure 2.

A Sintrex MP2 proton precision magnetometer was used. A base station was established and tied into regularly. All readings were drift corrected to the base station readings.

A Sabre Electronics VLF unit was used to measure both field strength and dip angle. All readings were taken with Annapolis as the source station.

Results and Interpretation

A geological report prepared by Kerr Dawson & Associates Ltd., Kamloops, B.C., (December, 1979) indicates that the local geology dips slightly to the south. References to strike suggest that the strike is east-west near the upper working of the property and north-west-southeast near the lower workings. Examination of a topography map and on-site investigations indicate that these strike directions are at right angles to the slope in each location. This observation suggests and supports that the bedding is close to horizontal and therefore yields an apparent strike at right angles to the slope at all locations.

One of the initial objects of the survey was to determine whether or not the lower workings (near the common corner of Mary 1 and Mary 4) are continuous with mineralization outcropping 500 metres south southeast. Geophysical results and considerable elevation difference between the two showings indicate that they are not continuous.

The VLF field strength data (figure 2) shows a significant field strength high in the central area of the survey. This indicates a different rock unit on the upper reaches of the ridge above the upper workings. Scattered field strength highs surrounding the main high are most likely coincident with the topography intersecting the rock unit exposed higher up. No specific trend is apparent in these field strength highs.

VLF dip angle data (Figure 3 Fraser filtered) contains numerous anomalous areas. The inconsistent strike of the geology due to the near horizontal bedding and erratic topography renders it difficult to relate the anomalies. Strong VLF responses are recorded in the trough in which the upper tunnel and creek bed lie. This suggests that the creek bed may be fault related. Closer line spacings in a more detailed survey are necessary to relate the various responses.

The Magnetic data (Figure 4) varies within a range of 200 gammas over most of the survey area. A close spaced, localized survey over the upper workings resulted in a magnetic high anomaly of 50 to 75 gammas trending east-west between the two workings. As with the VLF data, the near horizontal bedding and steep topography result in magnetic contour lines being highly influenced by topography. The exception appears to be in the area of line 350 north where a quartz biotite gneiss cuts across the granodiorites. Anomalous highs of 2000 to 3000 gammas were recorded in this area.

The magnetics have not yielded a definitive signature over the known mineralized zone. The magnetic responses obtained can be generally explained as related to the numerous geological horizons up and down the slopes. In order to better define the anomalous readings recorded on the northern lines, a much tighter survey would be required. More definitive information in this area would only be of economic interest if geological investigation of the current anomalies suggested that the geological horizons located are of potential mineral bearing significance.

Conclusion

The magnetic and VLF information indicates that the lower workings and mineralized exposure 500 metres to the south southeast are not connected. The VLF field strength and magnetics indicate that there are a number of geological horizons in the survey area. Further geological investigations of the area are recommended before any extended geophysical work is carried out.

GORDON LLOYD ELLIS

AGER BERRETTA AND ASSOCIATES INC.

Education

- 1972 B.Sc. (Geophysics)
University of British Columbia
- 1974 M.B.A. (Finance)
University of British Columbia

Experience

- 1970- Field Assistant with St. Joseph's Phelps Dodge
1971 Exploration; Geophysical assistant with Canadian
Nickel Co. (Electromagnetic, magnetic and geochemical
survey field work in Australia and Canada)
- 1972- Project Geophysicist with Canadian Superior Explorations
1973 Ltd (Gravity, electromagnetic and magnetic surveys
together with data reduction, interpretation, report
writing and supervision of field personnel)
- 1974- Project Manager/Geophysicist with C.A. Ager & Associates
1975 Ltd. (Gravity, Induced Polarization and Resistivity
surveys - responsible for overall project management
including field work, data reduction and interpretation)
- 1975- Project Administrator for Crippen International Ltd
1979 and UBC for Indonesian construction and economic
evaluation projects (Research, supervision, economic
analysis - supervised over 70 people, administered budget
of over \$3,000,000)
- 1979 Consulting Geophysicist with C.A. Ager & Associates Ltd
to (Gravity, Computer Calculations, Electrical Resistivity,
Present Induced Polarization, Electromagnetics and Magnetics -
responsible for overall project management, data reduction,
computer programming, interpretation, reports, supervision,
personnel and budgeting)

Professional Memberships

The Society of Exploration Geophysicists

Association of Professional Economists of British Columbia

AGER, BERRETTA & ASSOCIATES INC.

Telephone: (604) 669-7748

CONSULTING
GEOPHYSICISTS

206 - 595 Howe Street
Vancouver, B.C., Canada
V6C 2T5

10 June, 1981

INVOICE: For professional and contract services rendered
in regard to VLF-EM and Magnetic surveys over the
Janson Creek Property as follows:

Field Work;

290 VLF-EM stations @ \$5.00 per station.....	\$1450.00	
310 Magnetic readings @ \$5.00	<u>1550.00</u>	\$3000.00

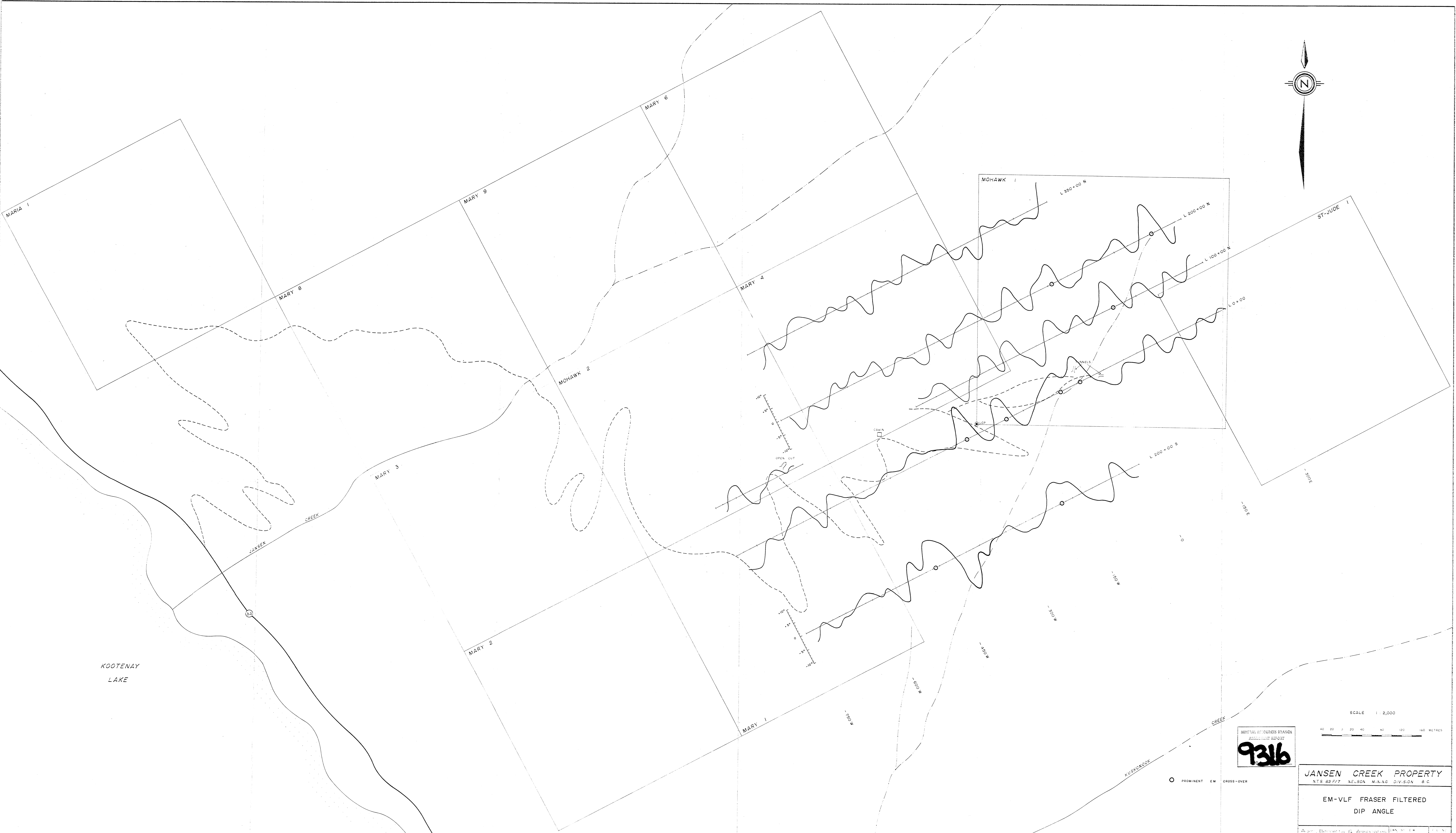
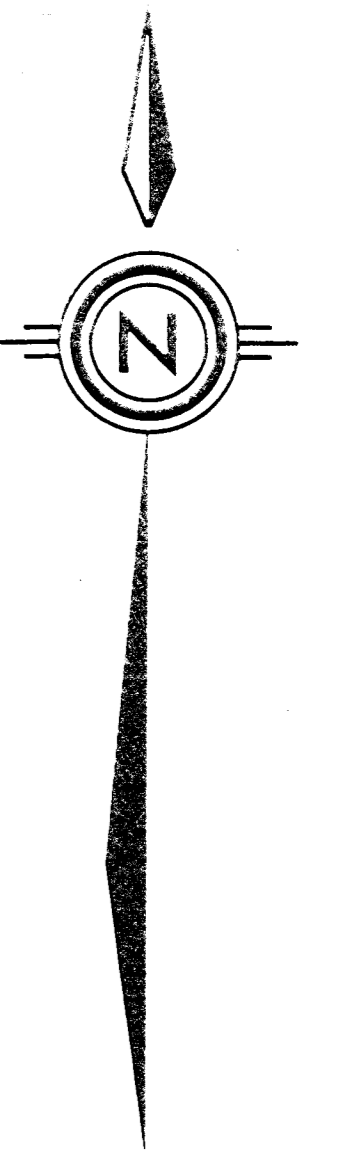
Report and Interpretation		700.00
---------------------------	--	--------

Mobilization/demobilization		<u>1285.00</u>
-----------------------------	--	----------------

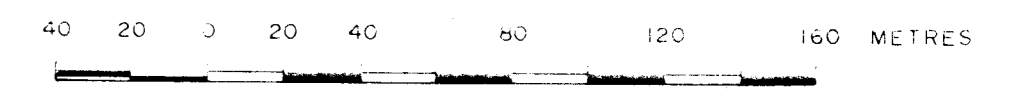
Total		<u>\$4985.00</u>
-------	--	------------------

Less advance received		<u>\$2000.00</u>
-----------------------	--	------------------

Net outstanding and payable		<u>\$2985.00</u>
-----------------------------	--	------------------



SCALE 1:2,000

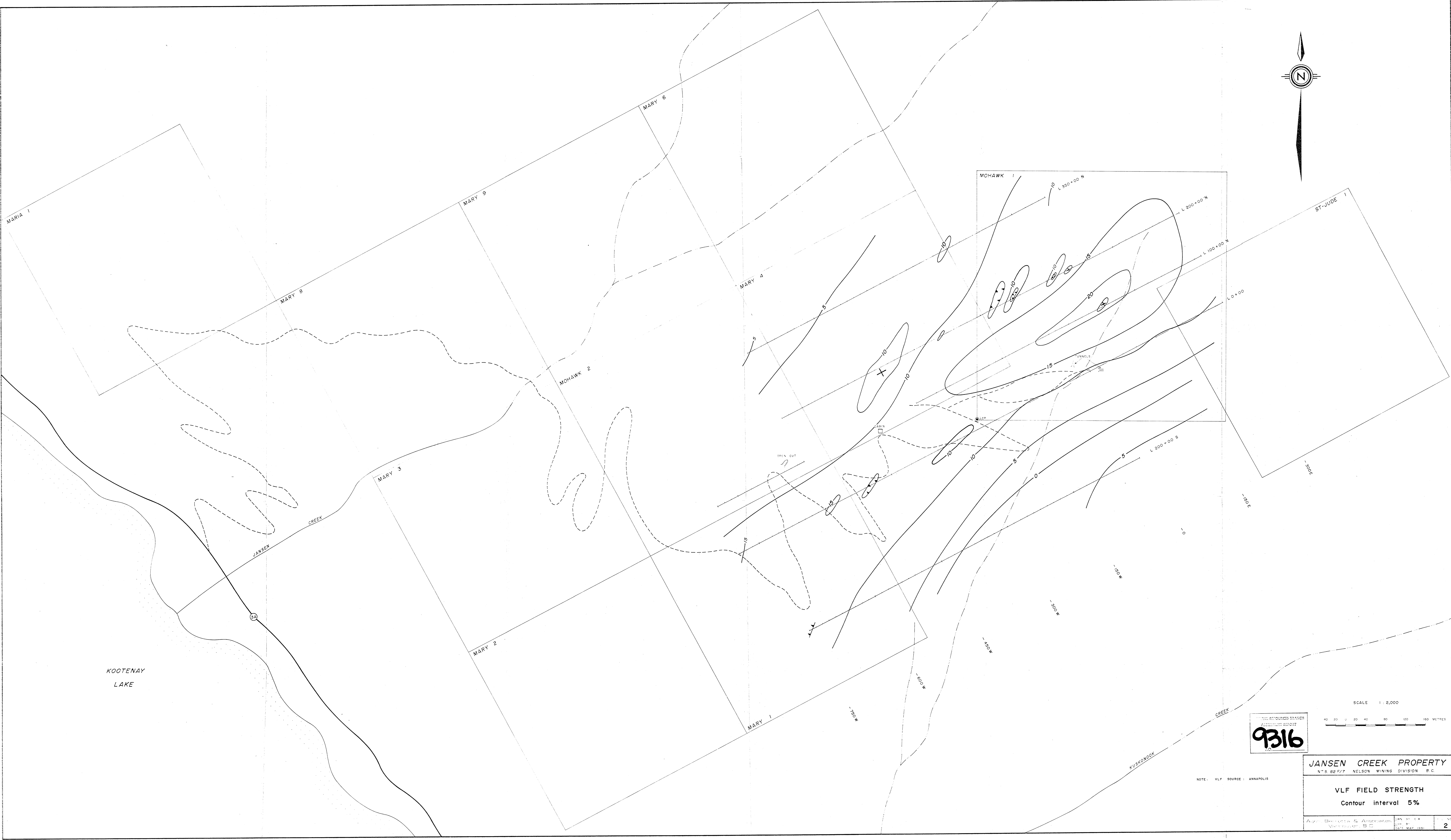
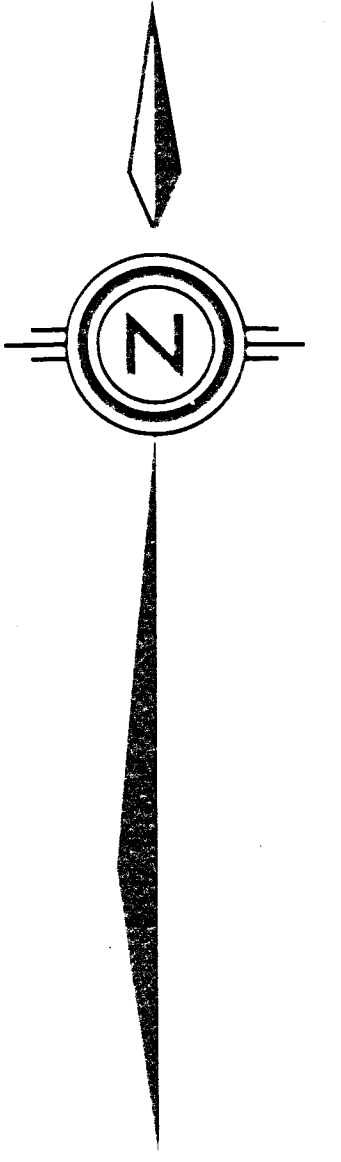


MINERAL RESOURCES BRANCH
ASSASSINATED REPORT
9316

JANSEN CREEK PROPERTY
ATS 82/7 NELSON MANAG DIVISION B.C.

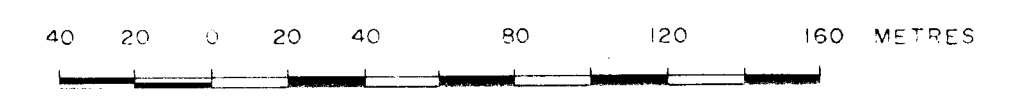
EM-VLF FRASER FILTERED
DIP ANGLE

○ PROMINENT EM CROSS-OVER



KOOTENAY
LAKE

SCALE 1:2,000



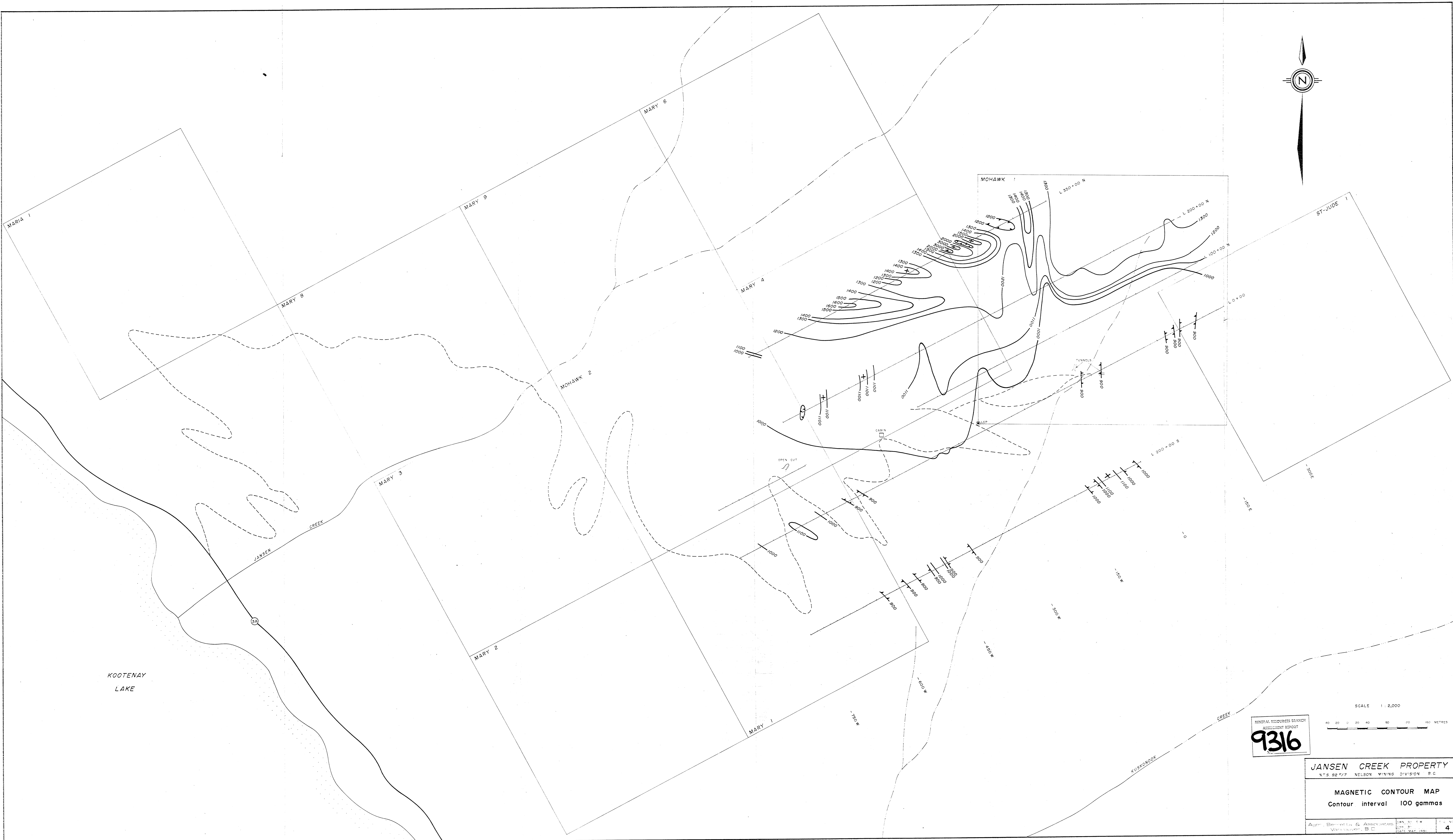
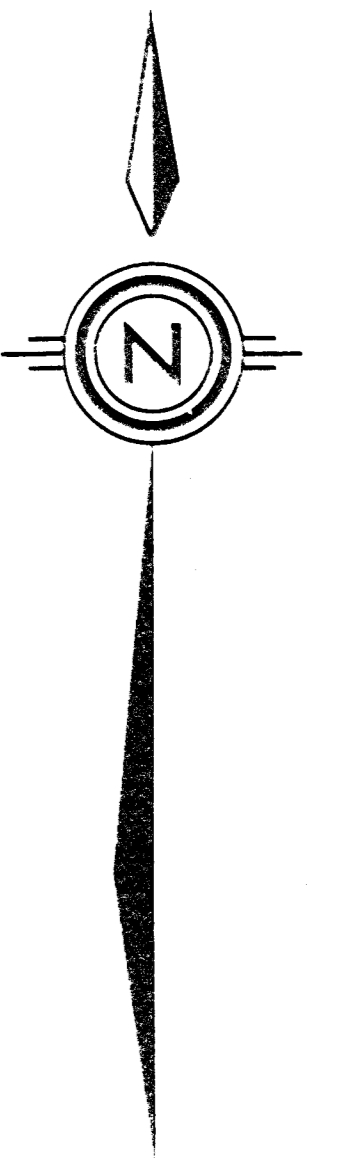
9316

NOTE: VLF SOURCE: ANNAPOLIS

JANSEN CREEK PROPERTY
V.T.S. 82 F/7 NELSON MINING DIVISION B.C.

VLF FIELD STRENGTH
Contour interval 5%

Map: Broughton & Associates
Vancouver, B.C.
Date: MAY 1981
2



KOOTENAY
LAKE

9A

JANSEN
CREEK

MARY 3

MARY 2

MOHAWK 2

MARY 1

MARY 4

MARY 9

MARY 6

MARIA 1

MARY 8

MOHAWK 1

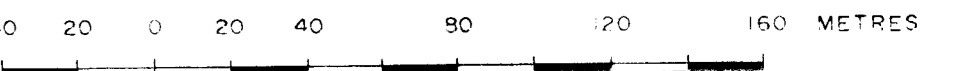
ST-JUDE 1

OPEN CUT

TUNNELS

CAMP

SCALE 1:2,000



MINERAL RESOURCES BRANCH
REGISTRATION REPORT
9316

JANSEN CREEK PROPERTY
N°S 82/77 NELSON MINING DIVISION B.C.

MAGNETIC CONTOUR MAP
Contour interval 100 gammas

Appr. Berridge & Associates
Vancouver, B.C. Date: May 1981 Page: 4