

VLF EMI6. GEOPHYSICAL REPORT
MO MINERAL CLAIMS
RECORD NO 1977(7)
HIGHLAND VALLEY
KAMLOOPS MINING DIV.
MAP

for

INVEX RESOURCES LTD.
709-744 W. HASTINGS ST.
VANCOUVER, B.C.

by

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709-744 W. HASTINGS ST.
VANCOUVER, B.C.

August 22, 1980

8267

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14.	Contoured Maine Results (In - Phase Component)	Pocket
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LOCATION AND ACCESS

The MO Mineral claims are located on the Northeast side of the Highland Valley at Lat. 50°34'N and Long. 121°06'W.

Access is by fire access road off the main highway and then by the brushed out Cinder Hill road directly to the main showing. The track is passable to 4 wheel drive vehicles.

THE PROPERTY

The MO Mineral claims consist of 4 Units (Record N°1977(7)) staked in July 1979 by the author, M. Dowad and J. McGoran.

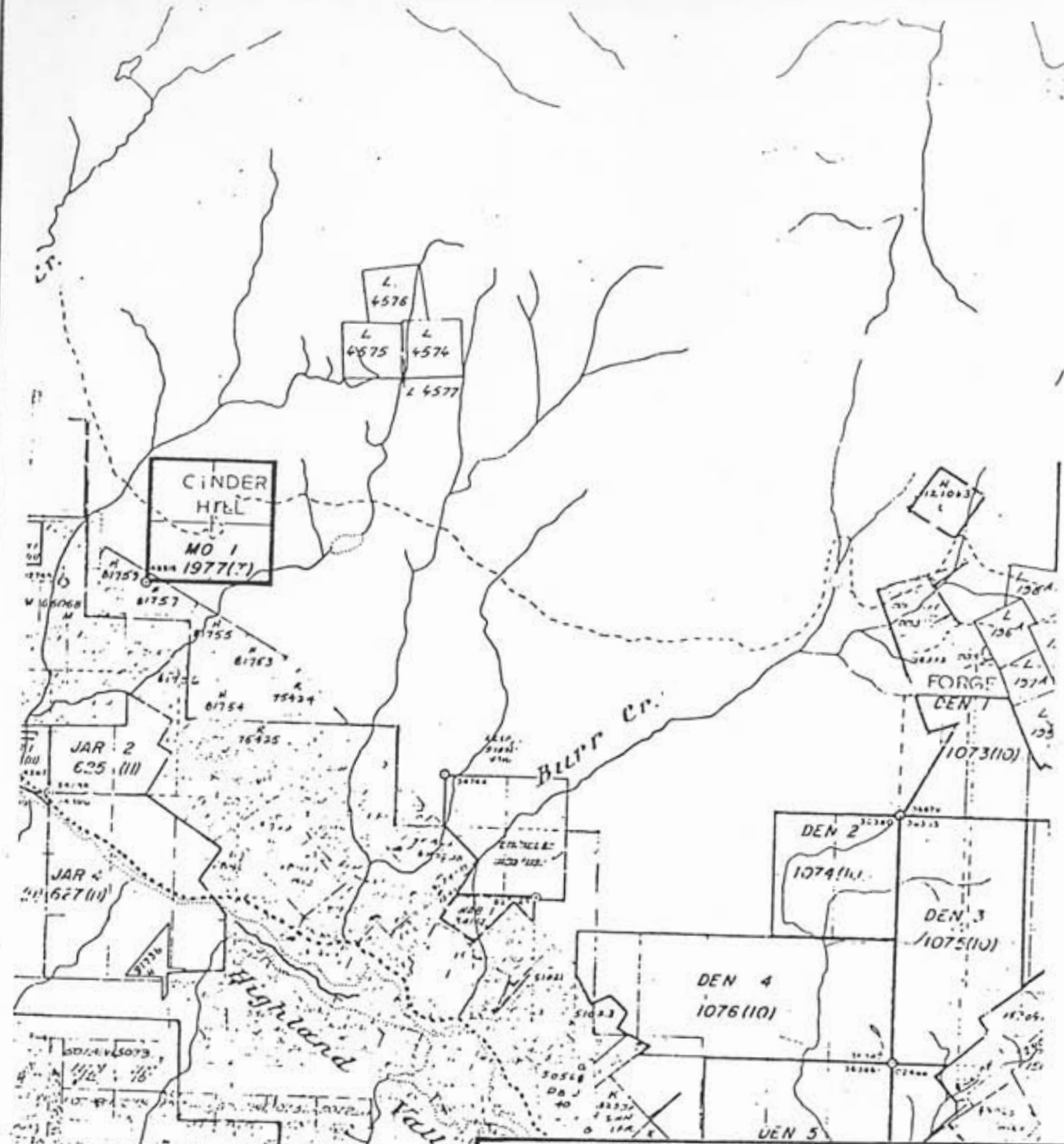
The main showing - reputed to be high in copper (1%+ Christie, 1974) occurs on the boundary between the old Continental Cinch and Croyden claim blocks and so was largely ignored by both owners. It was staked as the MO fraction in August 1971 by J. McGoran and optioned to Continental Cinch who dropped it in 1974 (Christie, 1974). It was restaked by the author and others in July 1979 and a VLF EMI6 Survey was carried out to try and determine the strike extent.

GEOLOGY (AFTER CHRISTIE 1974)

The property is at the contact of the Guichon Creek batholith and is overlain to the east by increasing thicknesses of Kamloops Group Volcanics. Immediately west of this volcanic cover is the Guichon Phase Quartz Diorite which underlies most of the property.

Locally the rocks are biotite-Hornblende Quartz diorite or Granodiorite belonging to the Guichon Phase and Hybrid phase of the batholith.

Mineralization is of two types. Firstly a Quartz Tourmaline -



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LOCATION OF
 MO MINERAL CLAIM
 HIGHLAND VALLEY, KAMLOOPS MIN. DIV., B.C.

SCALE 1:50 000

MAP NUMBER 0

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Haematite - Chalcopyrite Bornite fracture filling where sulphides form irregular and discontinuous patches. Secondly there are broader zones of high fracture density and propylitic alteration with chloritisation of the mafics and weak copper mineralization consisting mainly of oxides and minor chalcopyrite. The MO showing is of the former type but was hoped to lead to the latter by Christie (1974). See Map 1.

WORK DONE AND PERSONNEL

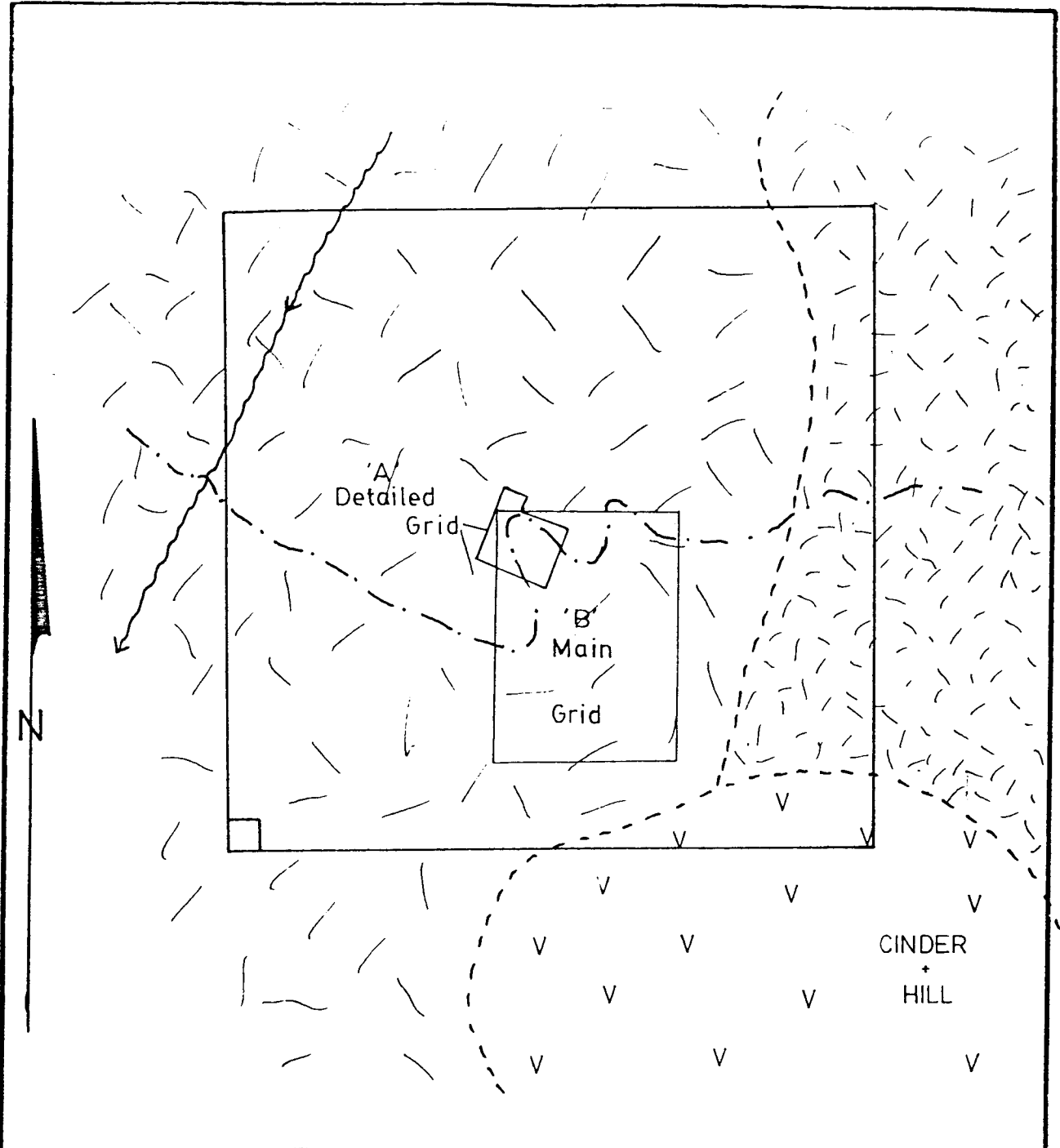
Initially a new grid was established by the author and M. Dowad under the supervision of J. McGoran over the main showing. This consisted of 7 approximately North-South lines 20m apart with a 10m station interval. The grid was emplaced by chain and compass survey and totals 790m of line. (See Map 2).

A VLF EML6 survey was then carried out over the grid looking for the northward extension of the showing. Both the Maine and Seattle (Washington) stations were used. The results of this survey are given on Maps 3 & 4 and contoured directly on Maps 5-8.

The results were reasonably promising so the author and M. Dowad returned to the property to look for a southward extension using the old East-West Croyden grid lines, 200 feet apart with a 50 foot station interval, totalling 5050 feet of line. (See Map 9). Again both Seattle and Maine were used and the results are given on Maps 10 & 11 and contoured directly on Maps 12-15.

DISCUSSION OF RESULTS

DETAILED GRID, A: The Seattle channel clearly picks up an almost North-South trending negative anomaly. Since the VLF



LEGEND

- Road ---
- Creek ~>
- Claim Boundary ---
- Geological Boundary ---
- Kamloops Volcanics V
- Guichon Quartz Diorite / \
- Hybrid border phase / \



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GEOLOGY OF
MO MINERAL CLAIM
 HIGHLAND VALLEY, KAMLOOPS MIN. DIV., B.C.

SCALE 1:10,000

MAP NUMBER 1

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S.P.QUIN B.Sc. ARSM.
 after J.Christe 1974

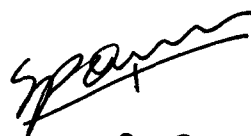
EM in phase component indicates the direction of the conductor clearly there is a single moderately strong conductor trending 5-10° west of North down the centre of the grid.

The Maine channel does not appear to pick up any coherent pattern - not really to be expected if the conductor is parallel to the wavefronts. (Appendix 1)

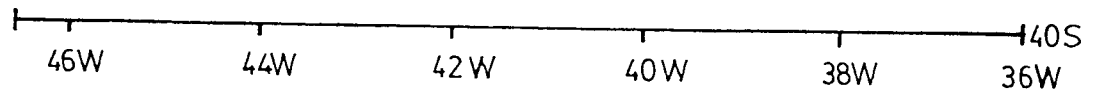
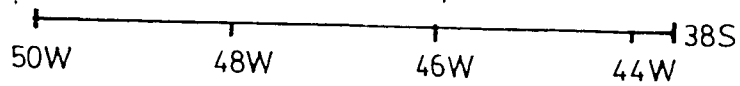
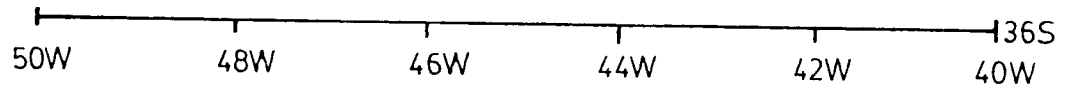
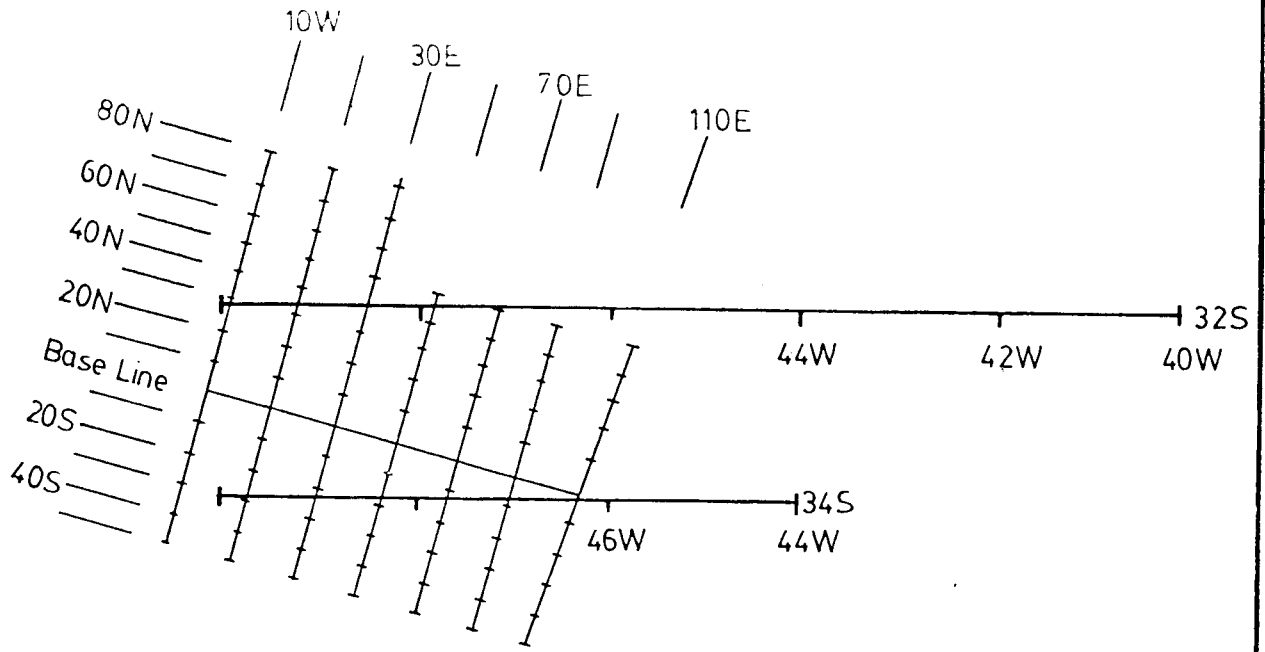
MAIN GRID, B: In this case the only data set with any coherent pattern is the Maine In - Phase (Map 14) which appears to show the North-South conductor cut off at its southernmost extent by a WSW-ENE feature that is possibly a fault and suggests the search for a southward extension should be displaced to the east or west. (Pocket)

RECOMMENDATIONS

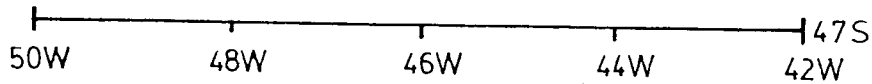
The air photographs and literature on the area should be studied in detail to try and obtain a regional trend for the faulting in the area and , if possible, an approximate throw for the fault at the southern end. Then the area where the displaced ore body is suspected to occur should be investigated in detail by VLF EM16 and by soil sampling on east-west lines 100m apart with a 10m sampling interval.


S.P. Quin

Detailed Grid 'A'



MAIN GRID 'B'



MAP 2

INVEX RESOURCES LTD.

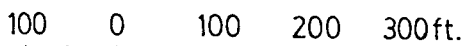
GRID RELATIONSHIPS

MO MINERAL CLAIMS

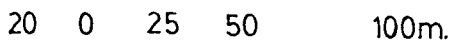
HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

JULY 1980

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Scale 1:12,000



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CERTIFICATE

I, Stephen Paul Quin, of 709-744 West Hastings, Vancouver, B.C., do hereby certify that

1. I am a Mining geologist of 709-744 West Hastings, Vancouver, B.C. with an office at this address.
2. I am a graduate in Mining Geology from the Royal School of Mines, London, Great Britain, and I am an associate of the said school.
3. I have 6 months prospecting and exploration experience in British Columbia with Invex Resources Ltd.
4. The above report is compiled from the given references on the authors personal experience of the property.

Dated at Vancouver, B.C. this 18th day of August, 1980.



S.P. QUIN, B.Sc., A.R.S.M.

ITEMISED STATEMENT OF COSTS

2300m VLF EM16 and Line Cutting - 2 men, 4 days	\$ 560
Room and Board - 2 men, 4 days \$27.50 p.d. each	220
Transport - Blazer and Fuel 4 days	250
Equipment and Misc. (Thread, Flagging etc.)	30
Report - 2 days at \$70.00 p.d.	140
	<hr/>
TOTAL	\$1200
	<hr/> <hr/>

REFERENCES

Christie J.S. 1974

Final Report on the MrGoran
MO Claims

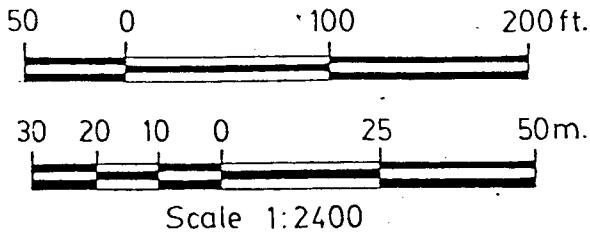
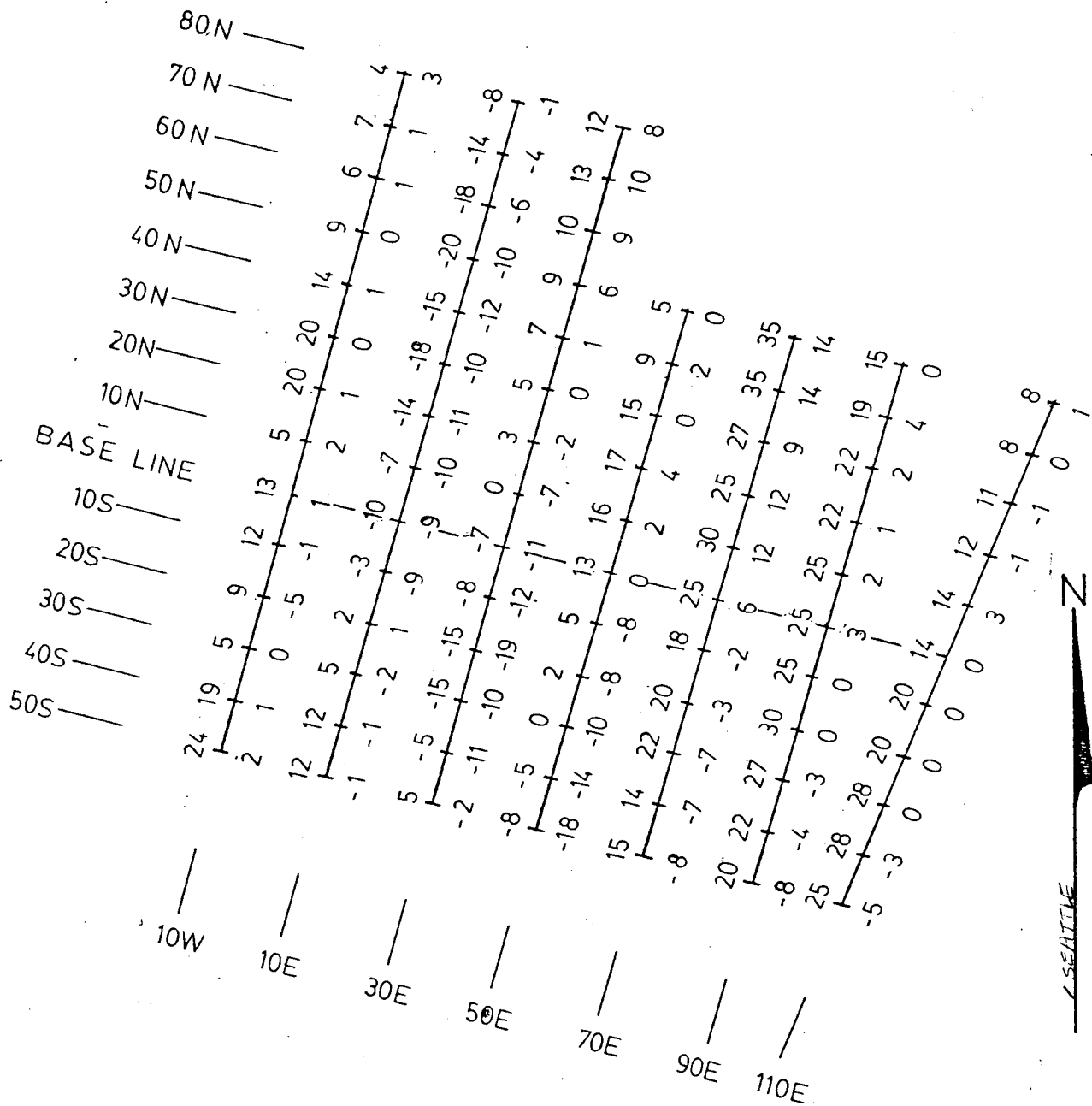
APPENDIX 1

DETAILED GRID A

VLF EM16 RESULTS

GRID A

1	2	IN PHASE (°)
+	+	
1	2	QUADRATURE (%)



MAP 3

INVEX RESOURCES LTD.

VLF EM16 SURVEY: SEATTLE CHANNEL

NO MINERAL CLAIMS

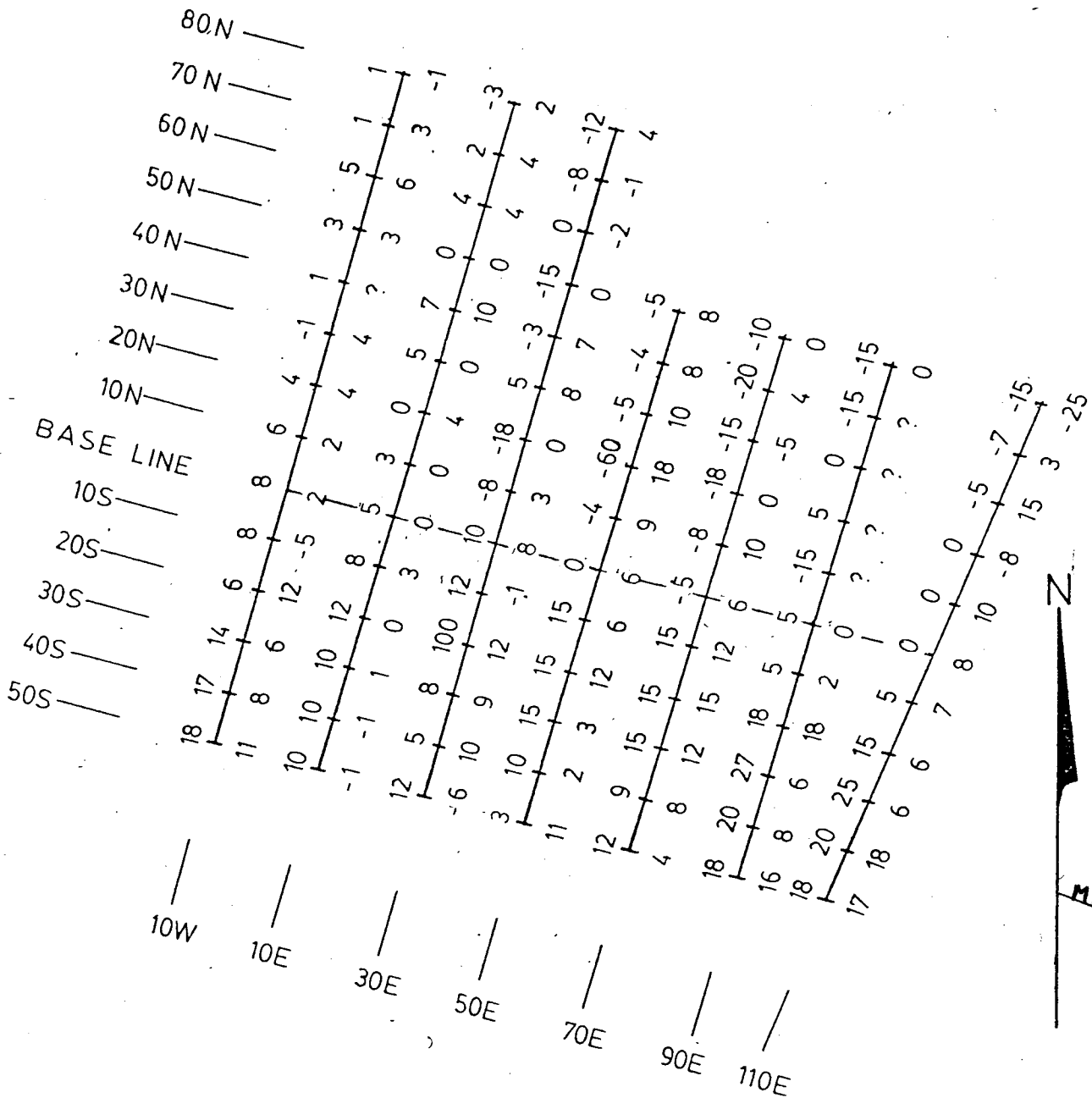
HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

JULY 1980

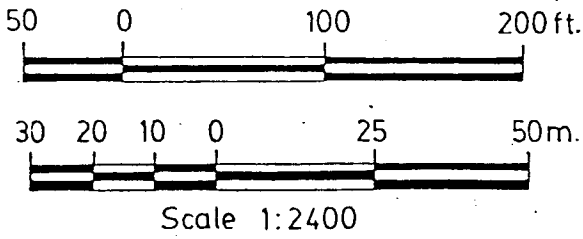
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GRID A

1	2	IN PHASE (°)
+	+	
1	2	QUADRATURE (%)

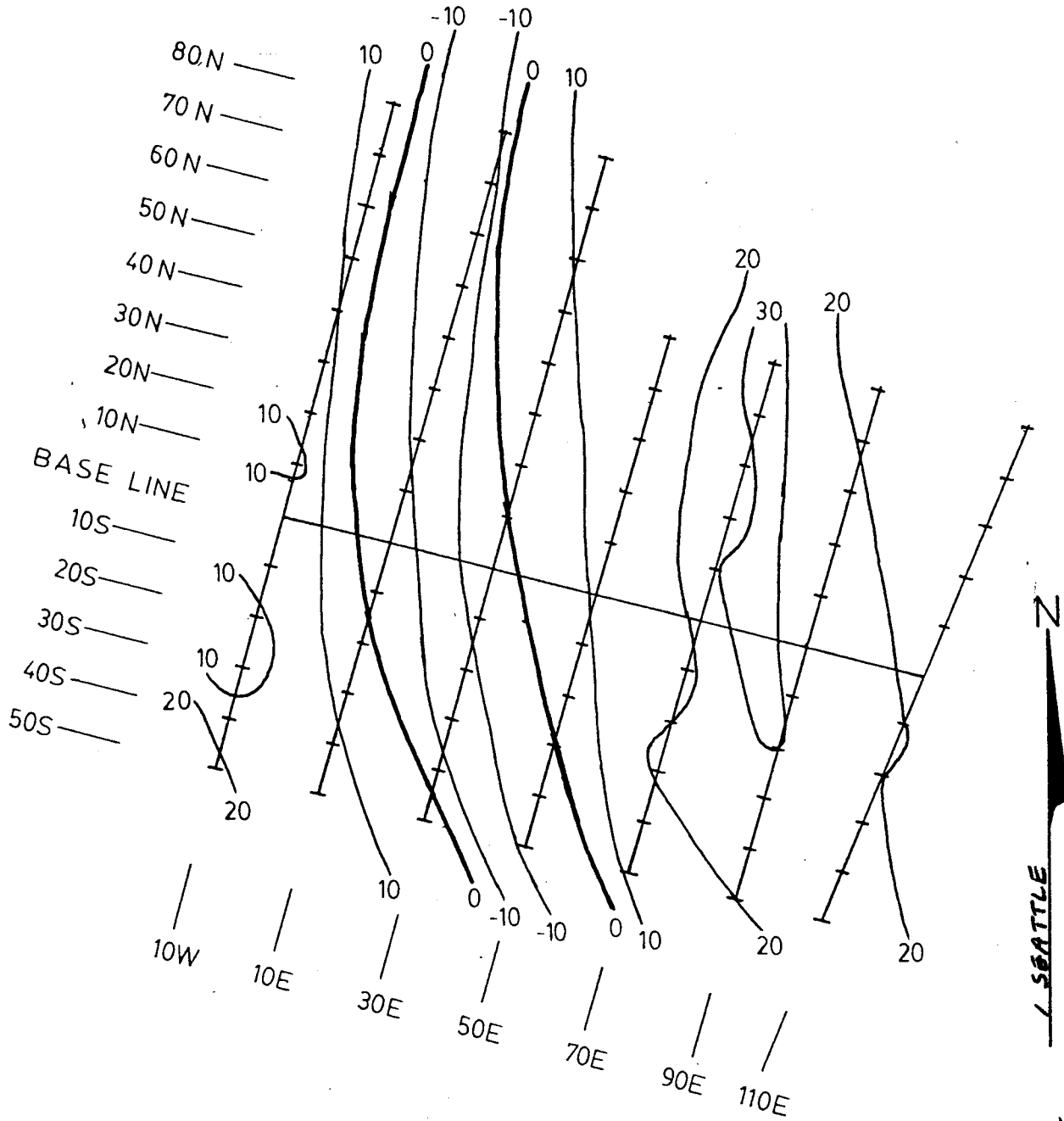


MAP 4

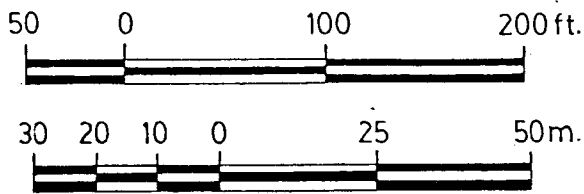


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VLF EM16 SURVEY: MAINE CHANNEL	
MO MINERAL CLAIMS	
HIGHLAND VALLEY, KAMLOOPS MIN. DIV.	
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GRID A



MAP 5



Scale 1:2400

CONTOUR INTERVAL 10°

INVEX RESOURCES LTD.

CONTOURED SEATTLE VLF EM (IN PHASE)

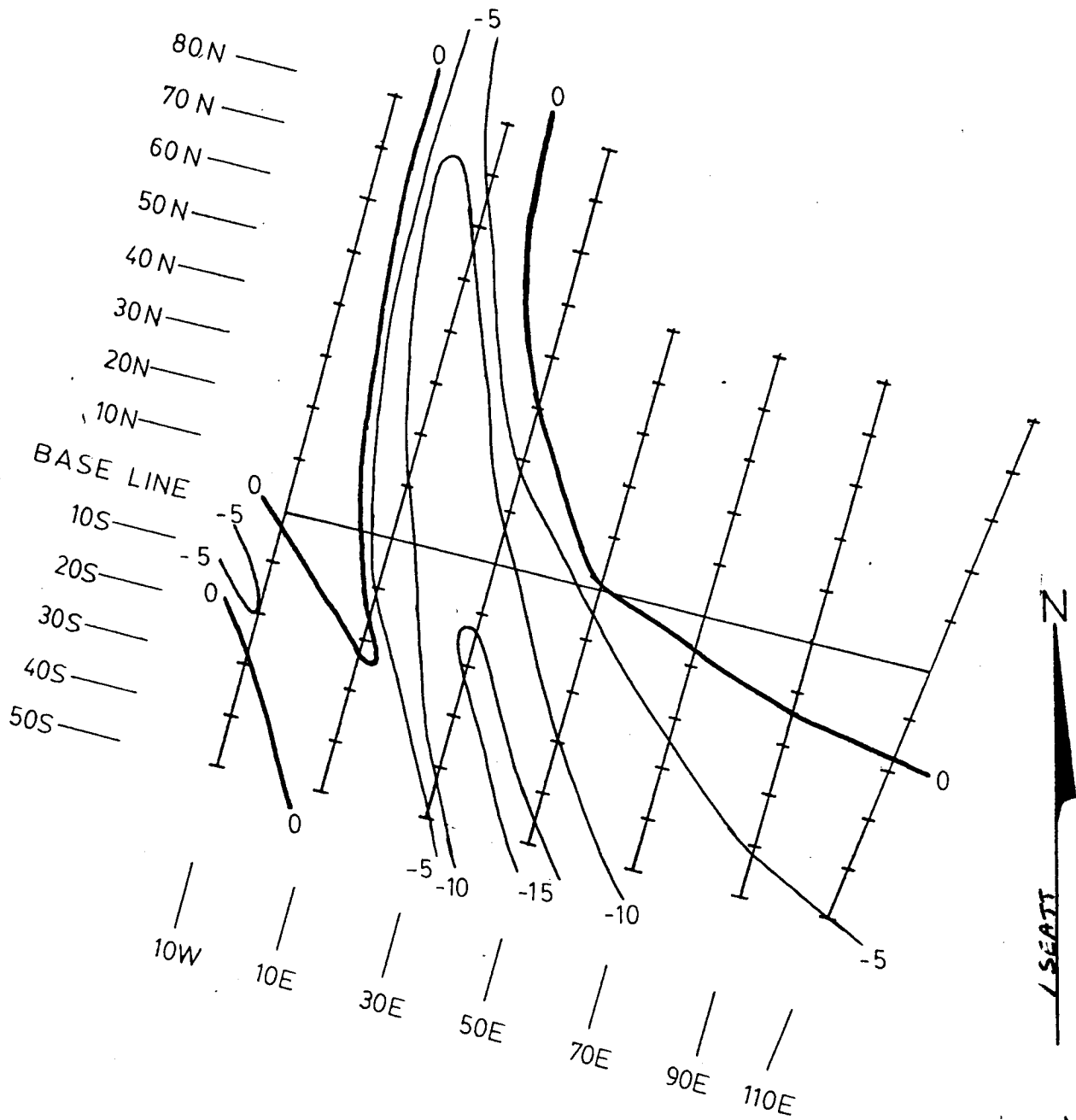
MO MINERAL CLAIMS

HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

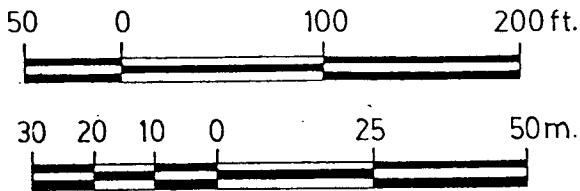
JULY 1980

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GRID A



MAP 6



Scale 1:2400

CONTOUR INTERVAL 5 %

INVEX RESOURCES LTD.

CONTOURED SEATTLE VLF EM(QUADRATURE)

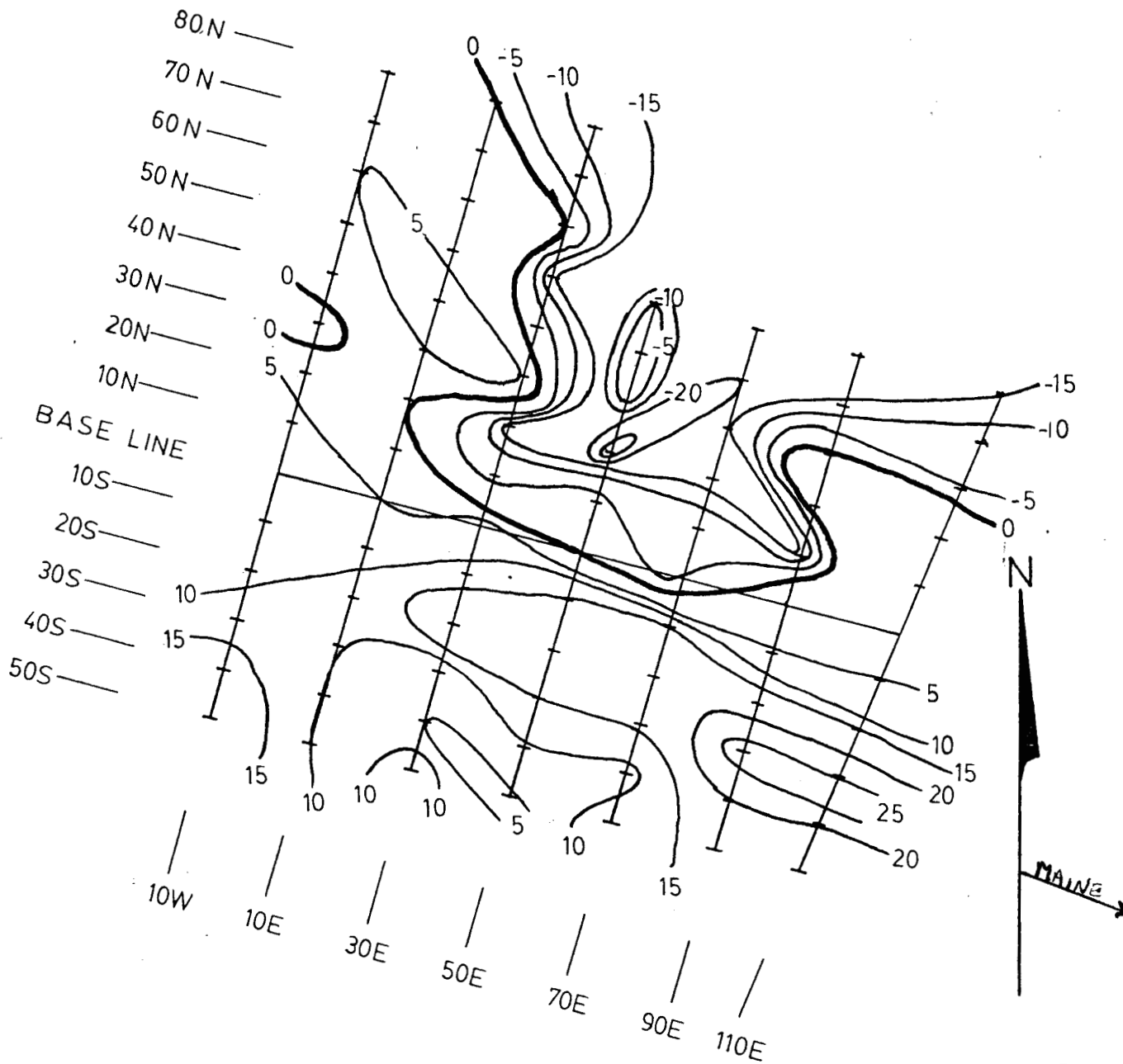
MO MINERAL CLAIMS

HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

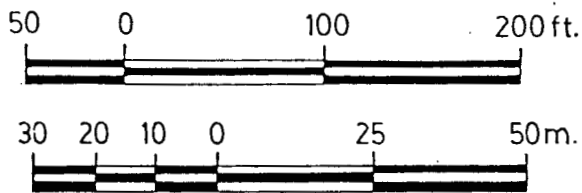
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Grid A



MAP 7



Scale 1:2400

CONTOUR INTERVAL 5°

INVEX RESOURCES LTD.

CONTOURED MAINE VLF EM (IN PHASE)

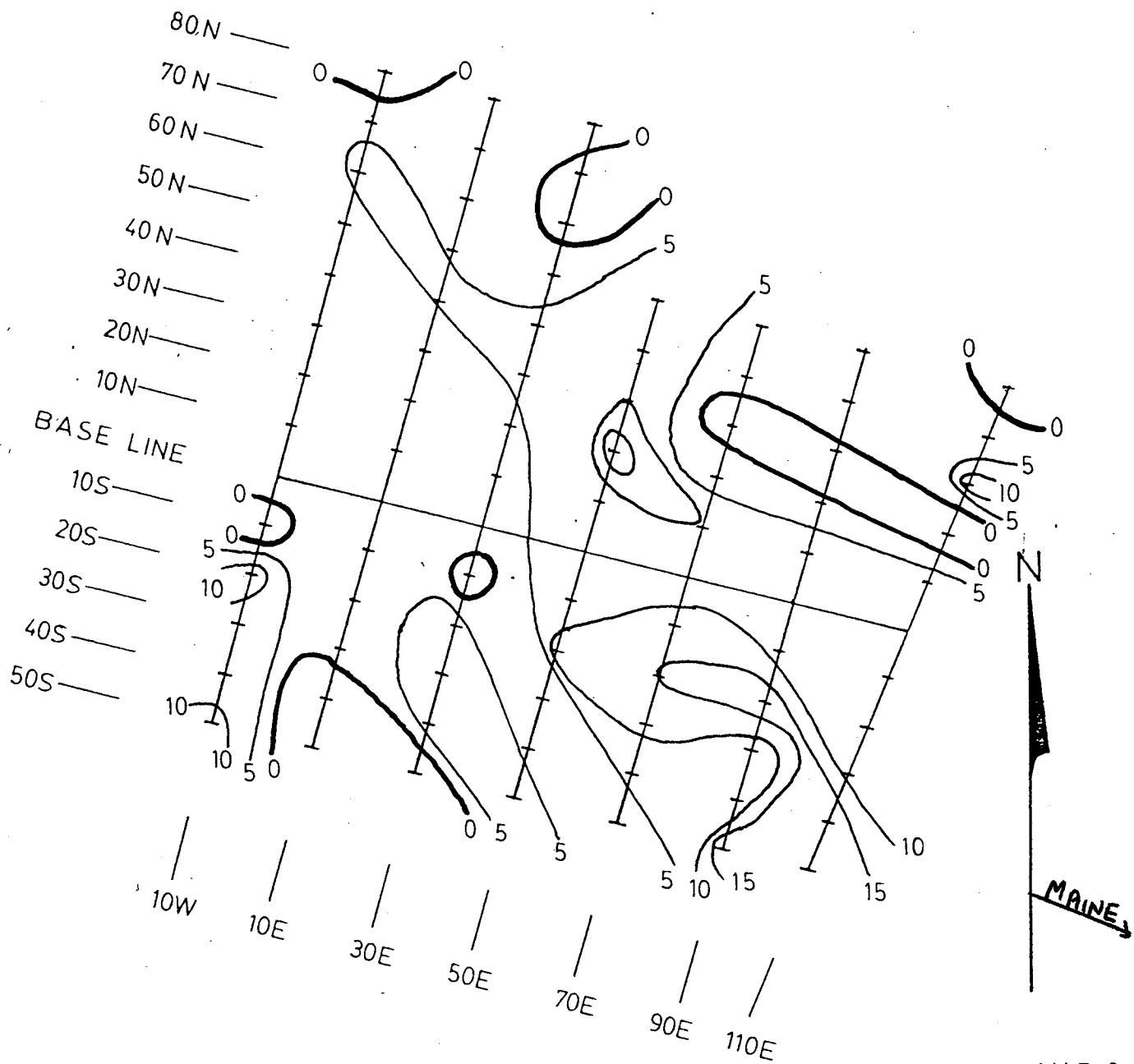
MO MINERAL CLAIMS

HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

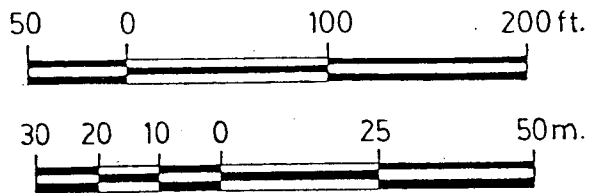
JULY 1980

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GRID A



MAP 8



Scale 1:2400

CONTOUR INTERVAL 5%

INVEX RESOURCES LTD.

CONTOURED MAINE VLF EM (QUADRATURE)

MO MINERAL CLAIMS

HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

JULY 1980

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32 S — 50W 48W 46W 44W 42W 40W

34 S — 50W 48W 46W 44W

36 S — 50W 48W 46W 44W 42W 40W

38 S — 50W 48W 46W 44W

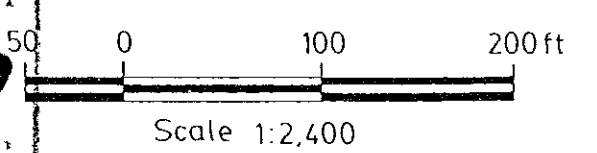
40 S — 46W 44W 42W 40W 38W 36W

47 S — 50W 48W 46W 44W 42W

N

Main Showing

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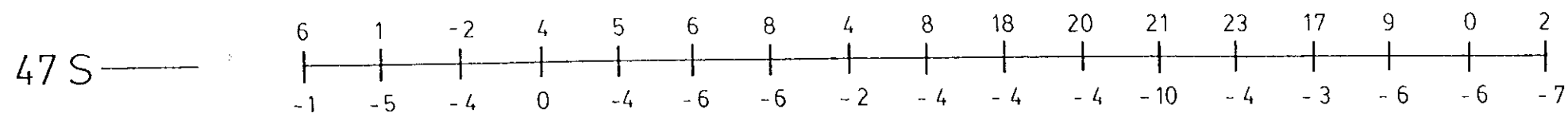
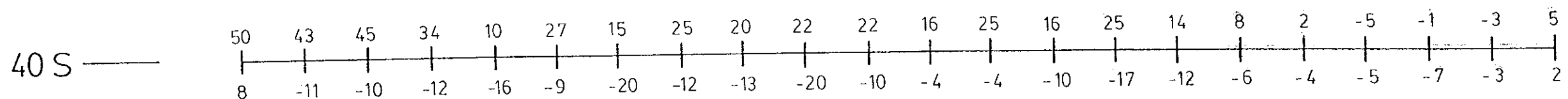
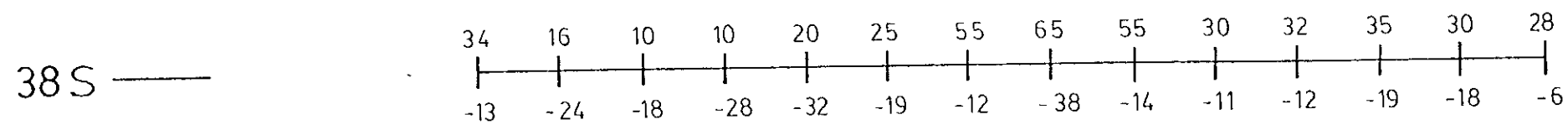
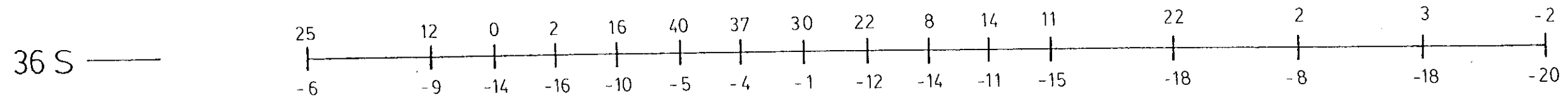
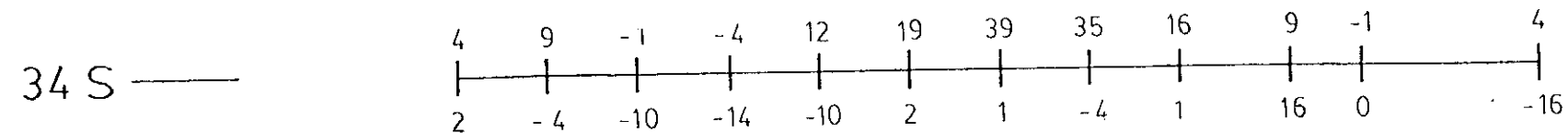
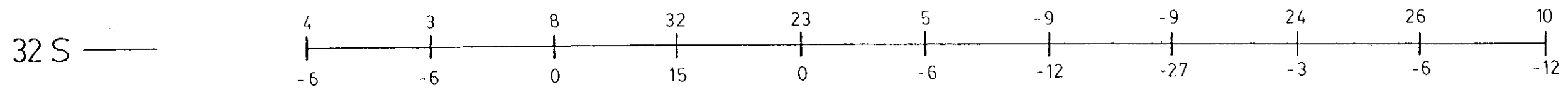
GRID B MAP 9

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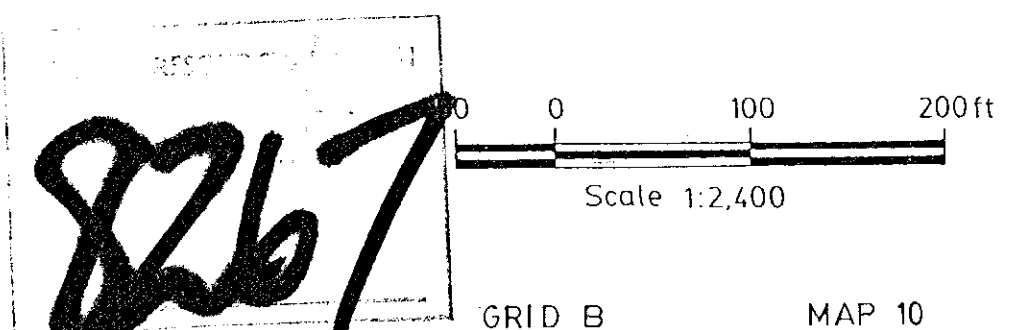
GRID MAP & MINERAL SHOWING
MO MINERAL CLAIMS
HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

JULY 1980

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1 IN PHASE (°)
1 QUADRATURE (%)



GRID B MAP 10

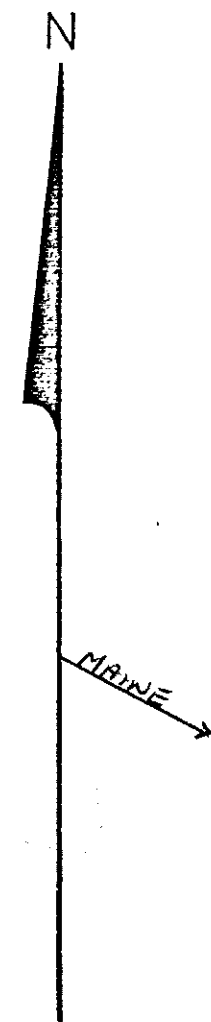
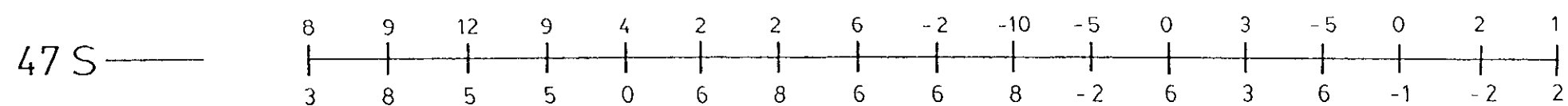
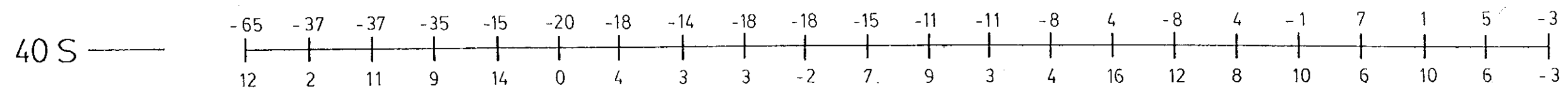
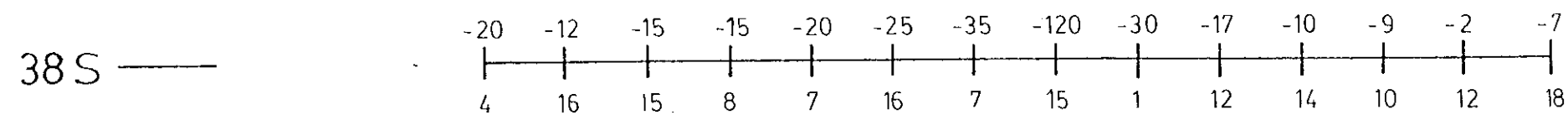
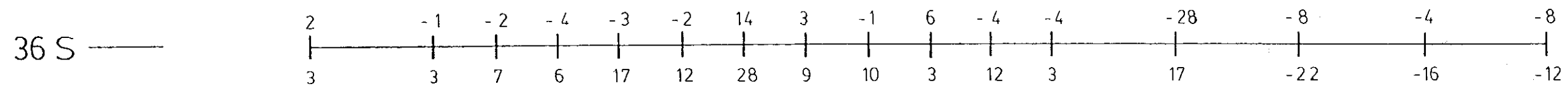
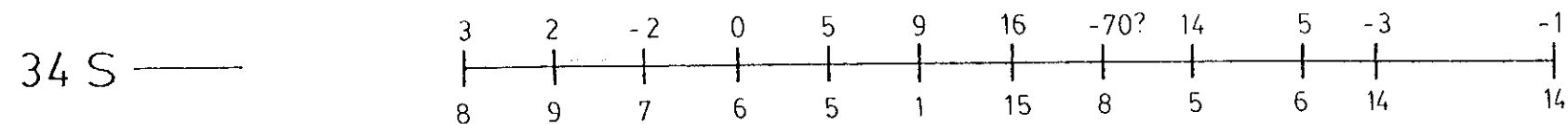
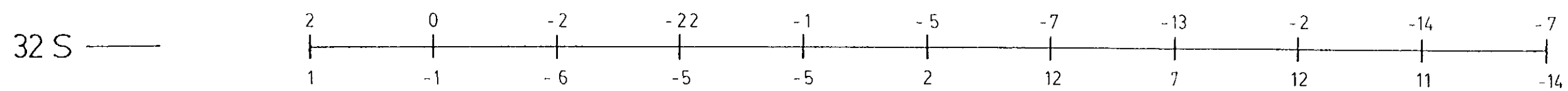
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VLF EM16 SURVEY: SEATTLE CHANNEL

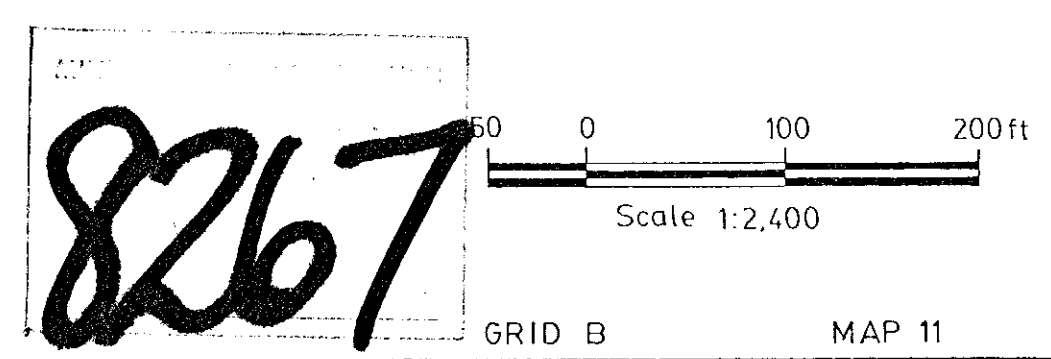
MO MINERAL CLAIMS

HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

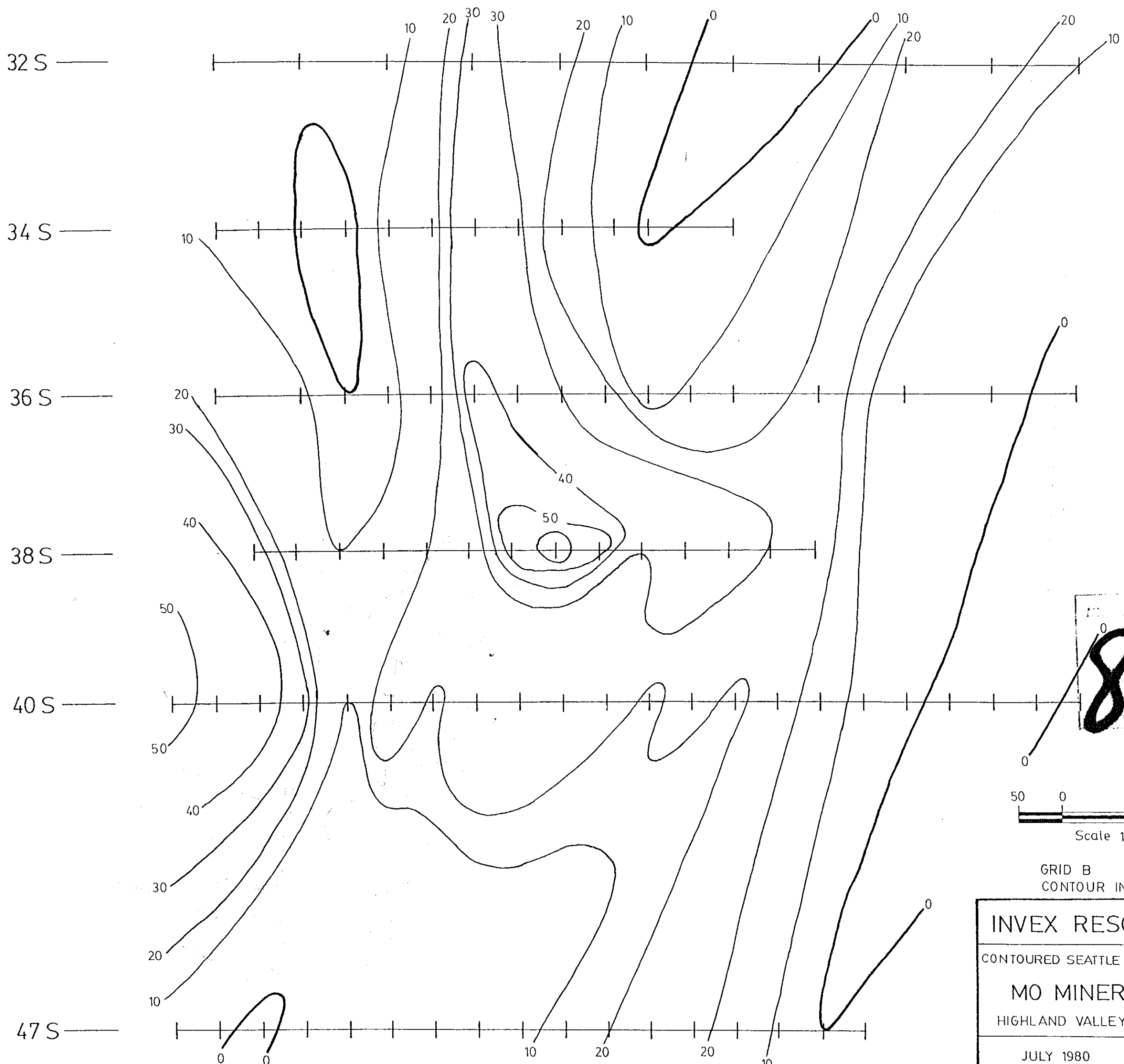
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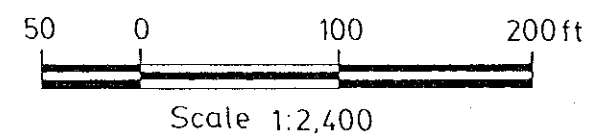
1 IN PHASE (°)
1 QUADRATURE (%)



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VLF EM16 SURVEY: MAINE CHANNEL
NO MINERAL CLAIMS
HIGHLAND VALLEY, KAMLOOPS MIN. DIV.
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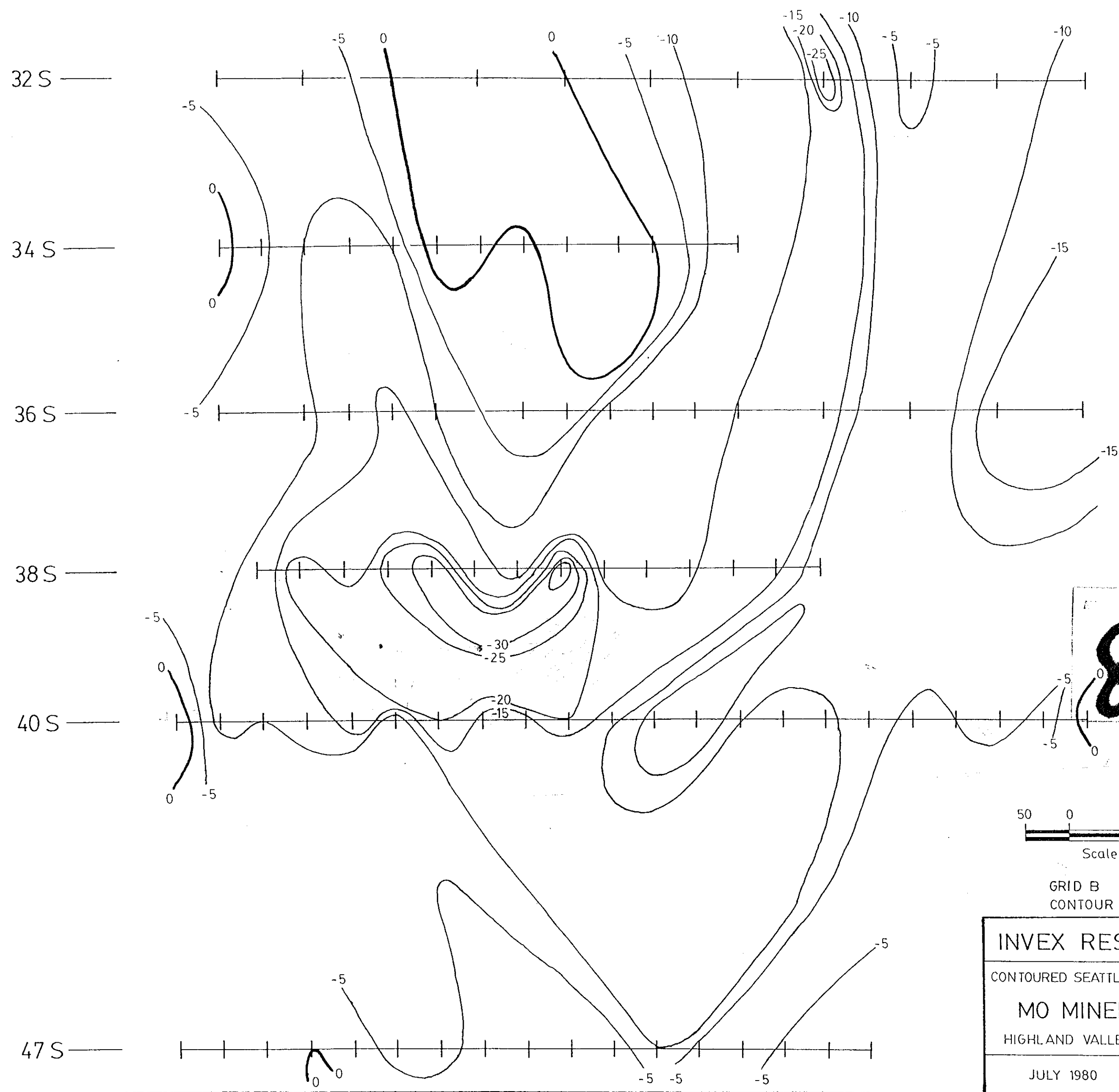


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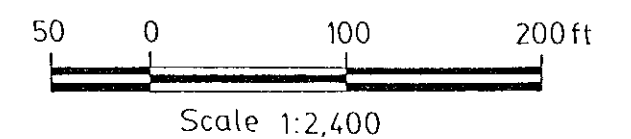


GRID B MAP 12
CONTOUR INTERVAL 10°

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CONTOURED SEATTLE VLF EM (IN-PHASE)	
MO MINERAL CLAIMS	
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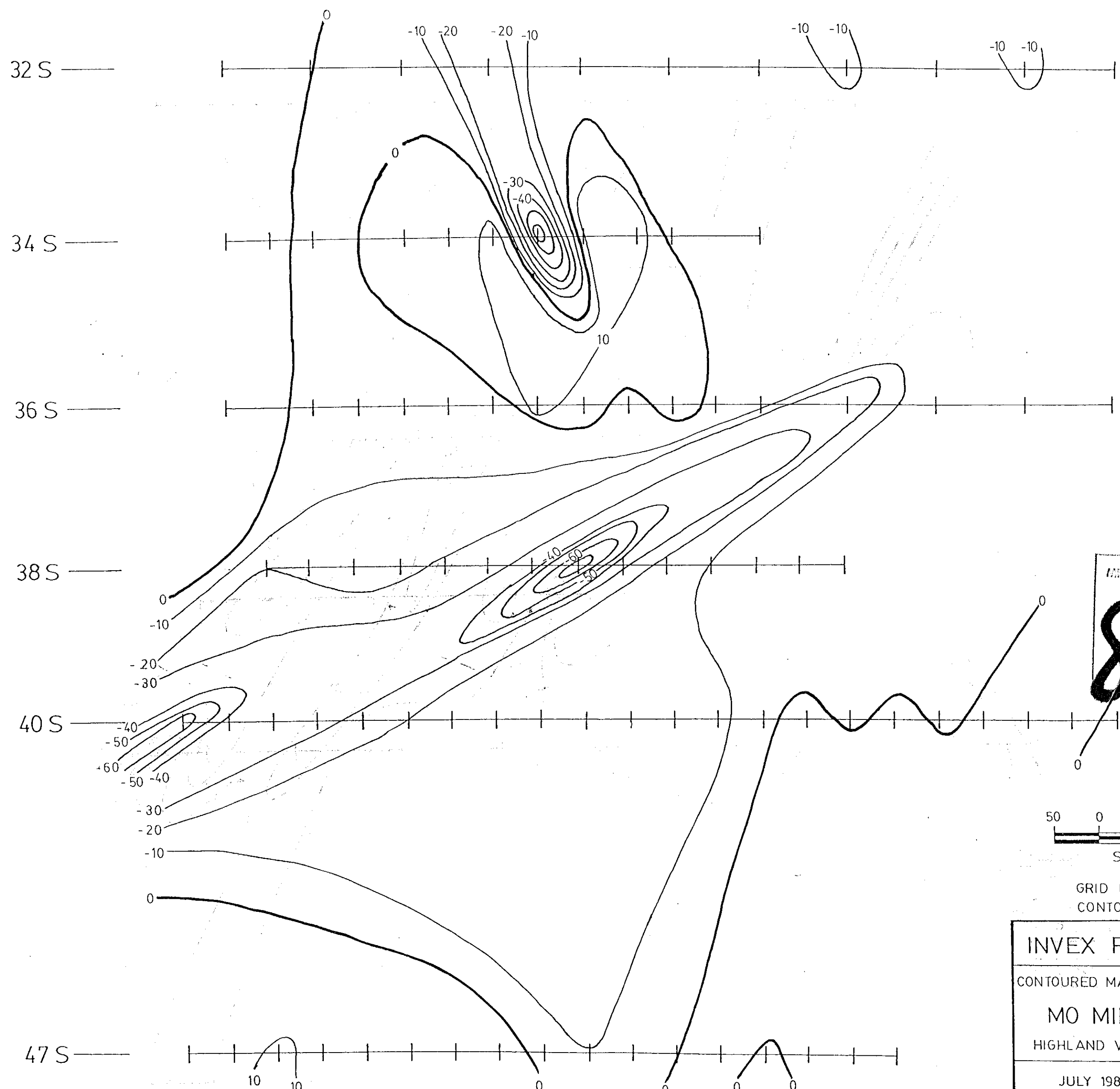


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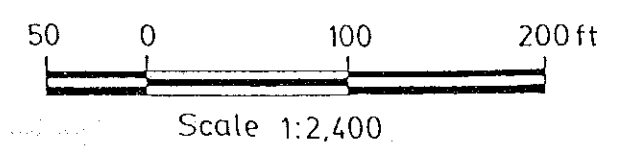


GRID B MAP 13
CONTOUR INTERVAL 5%

INVEX RESOURCES LTD.	
CONTOURED SEATTLE VLF EM (QUADRATURE)	
NO MINERAL CLAIMS	
HIGHLAND VALLEY, KAMLOOPS MIN. DIV.	
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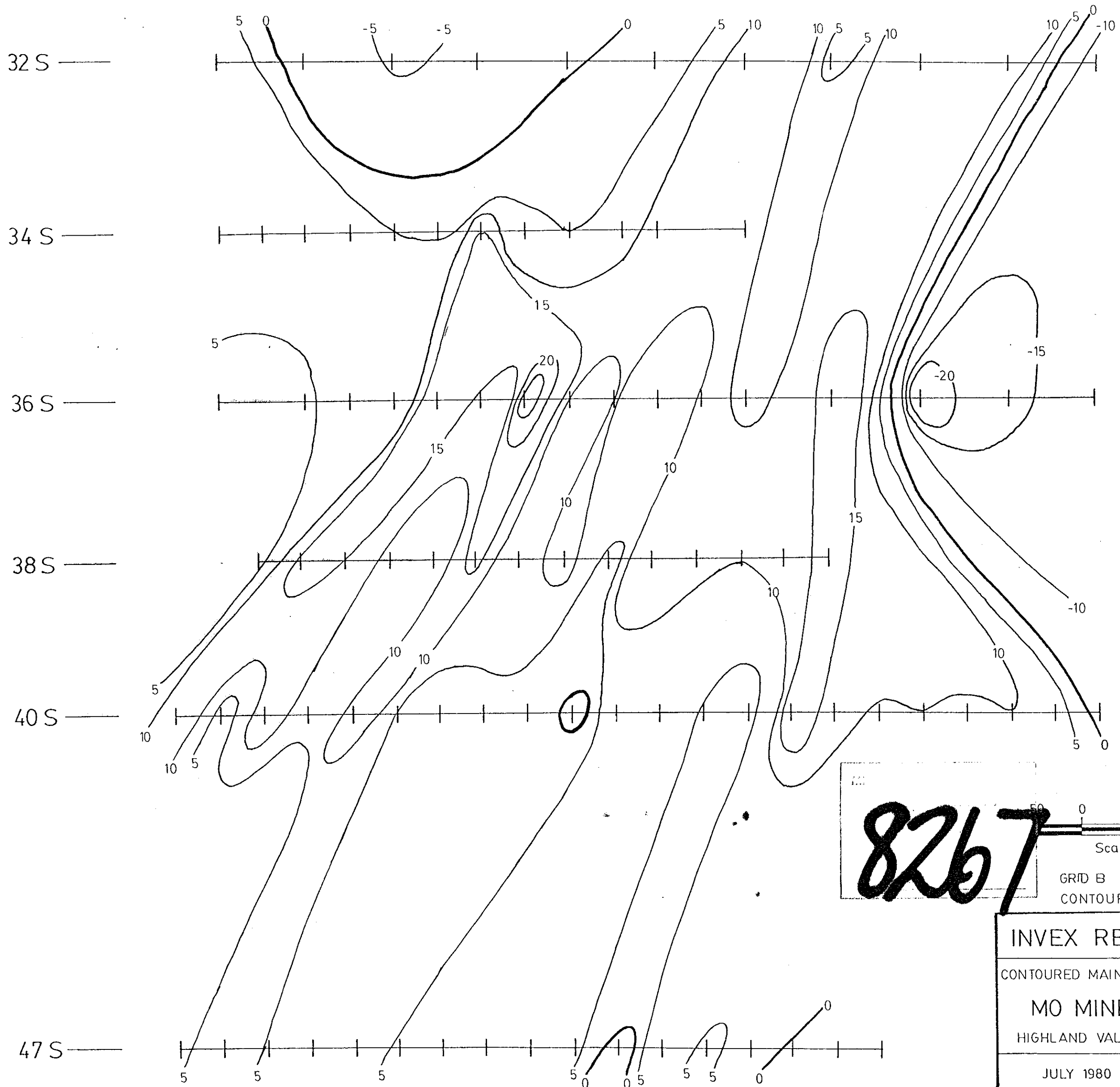


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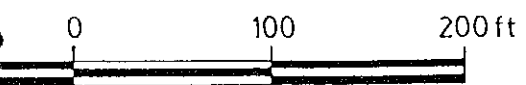


GRID B MAP 14
 CONTOUR INTERVAL 10°

INVEX RESOURCES LTD.	
CONTOURED MAINE VLF EM (IN PHASE)	
MO MINERAL CLAIMS	
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Scale 1:2,400

GRID B MAP 15
CONTOUR INTERVAL 5%

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CONTOURED MAINE VLF EM (QUADRATURE)

MO MINERAL CLAIMS

HIGHLAND VALLEY, KAMLOOPS MIN. DIV.

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