

'81-#366-#9354

ASSESSMENT REPORT  
VLF ELECTROMAGNETIC, MAGNETOMETER AND GEOCHEMICAL SURVEYS  
ON THE  
MIKE #1 - 8 MINERAL CLAIM GROUP  
RECORD NOS. 852-859(4)  
NICOLA LAKE - CLAPPERTON CREEK AREA  
NICOLA MINING DIVISION  
MERRITT, BRITISH COLUMBIA

N. Lat. 50°12'

W. Long. 120°36'

for

NEWLINE RESOURCES LTD.  
Suite 709  
525 Seymour Street  
Vancouver, British Columbia

by

DONALD W. TULLY, P. ENG.

9354

May 25, 1981

West Vancouver, B.C.

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION.....	1
SUMMARY AND CONCLUSIONS.....	1
PROPERTY - LOCATION, ACCESS, PHYSIOGRAPHY AND ENVIRONMENTAL CONSIDERATIONS.....	2
CLAIMS.....	3
HISTORY - PREVIOUS DEVELOPMENT.....	3
REFERENCES.....	6
GEOLOGY.....	8
MINERALIZATION.....	9
RESULTS OF THE 1981 PROGRAM OF GEOPHYSICAL AND GEOCHEMICAL SURVEYING.....	9
CERTIFICATE.....	14

MAPS

Figure 1 - Location Map.....	(Frontispiece)
Figure 2 - Topographic Map.....	(Follows page 1)
Figure 3 - Claim Plan.....	(Follows page 2)
Figure 4 - VLF-2 Electromagnetic Survey.....	(In Pocket)
Figure 5 - Magnetometer Survey.....	(In Pocket)
Figure 6 - Geochemical Survey.....	(In Pocket)
Figure 7 - Detail VLF-2 electromagnetic and Magnetometer Survey.....	(In Pocket)

APPENDIX

Survey Procedures by Robert, Wank, Geo Teck Services Ltd.  
Assay Certificates #A8110859 - 001, 2, 3, 4  
Time-Cost Distribution

FIGURE 1.  
**LOCATION MAP**

Scale 1" = 30 miles  
May 25, 1981

EDMONTON

JASPER

VALEMOUNT

WILLIAMS LAKE

**MIKE No. 1-8  
CLAIM GROUP**

BLUE RIVER

CLEARWATER



REVELSTOKE

ASHCROFT

KAMLOOPS

HIGHLAND VALLEY

AFTON

SALMON ARM

SPENCES BRIDGE

CRAIGMONT MINE

VERNON

LYTTON

MERRITT

LUMBY

FAUQUIER

BRENDA MINE

KELOWNA

PEACHLAND

VANCOUVER

HOPE

PRNCE TON

PENTICTON

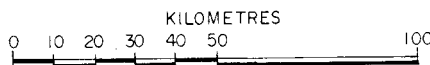
KEREMEOS

OLIVER

ROCK CREEK

GRAND FORKS

BRITISH COLUMBIA  
WASHINGTON U.S.A.



*Donald W. Pelly*

## INTRODUCTION

This report was prepared at the request of the Directors of Newline Resources Ltd., Suite 709 - 525 Seymour Street, Vancouver, British Columbia.

The purpose of this report is to summarize the results of VLF electromagnetic, magnetometer and geochemical surveys done over the MIKE #1-8 claims, some twenty-three kilometres northeast of Merritt, British Columbia, in the period April 1 through April 10, 1981.

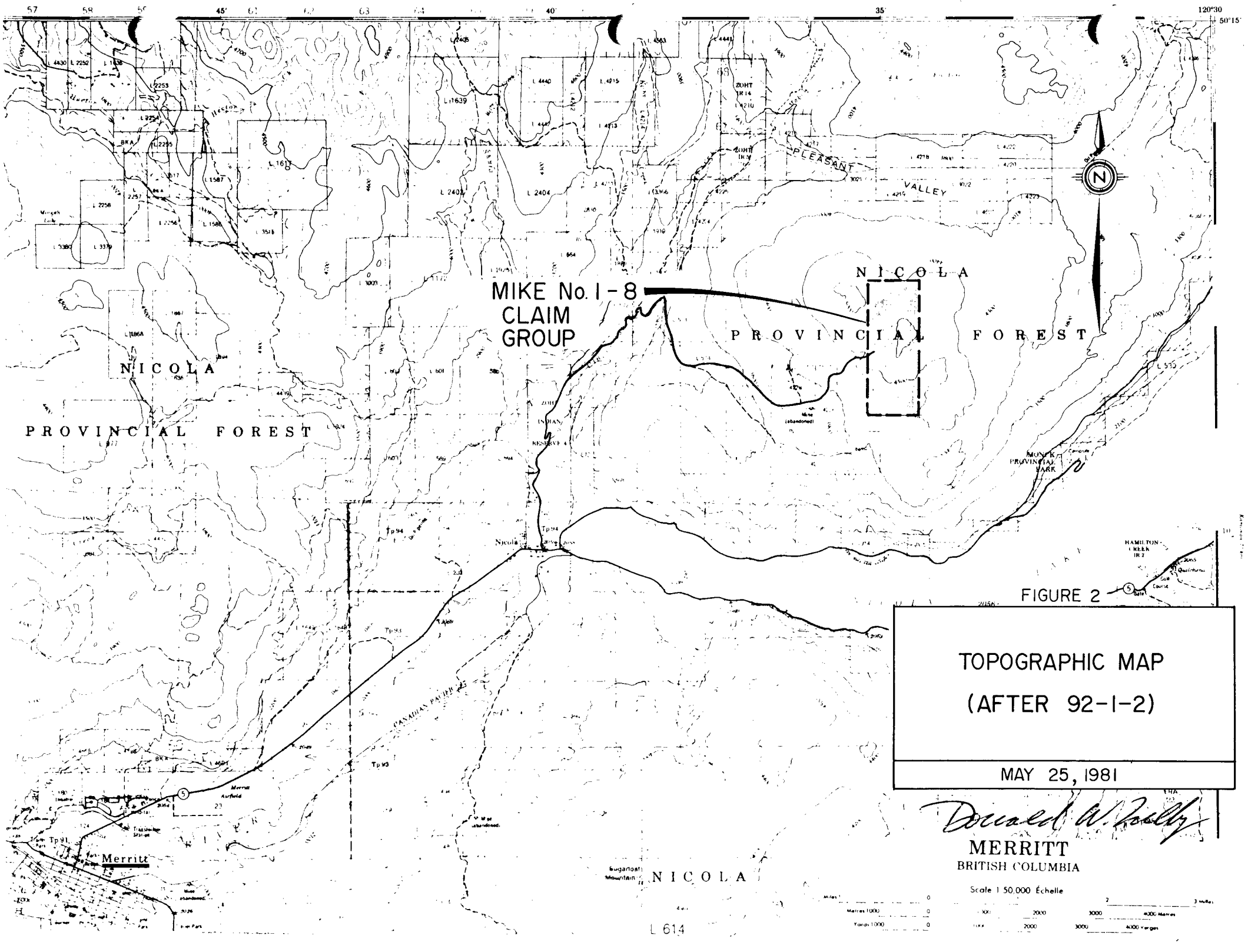
This report is based upon a field examination of the geophysical and geochemical survey work done on the MIKE #1-8 mineral claim group on May 23, 1981.

## SUMMARY AND CONCLUSIONS

The MIKE #1-8 claim group comprises eight mineral claims, located about twenty-three kilometres northeast of Merritt, British Columbia (Figures 1 and 2).

Some sixty years ago highgrade copper ore was discovered just west of the MIKE claim group on the nearby Turlight Claim (Lot 4841). Subsequent development in the area of the Turlight claim and in the area about a kilometre southeast of the Turlight shaft showed widespread copper as well as molybdenite in a geologic environment favourable for porphyry-type copper deposits.

VLF electromagnetic and magnetometer geophysical surveys and a geochemical soil sampling program was performed over the MIKE #1-8 claim area in the period April



MIKE No. 1-8  
CLAIM  
GROUP

NICOLA  
PROVINCIAL  
FOREST

NICOLA  
PROVINCIAL  
FOREST

FIGURE 2

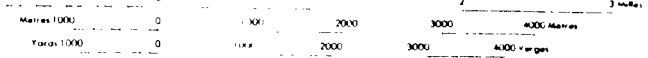
TOPOGRAPHIC MAP  
(AFTER 92-1-2)

MAY 25, 1981

*Donald W. Kelly*

MERRITT  
BRITISH COLUMBIA

Scale 1:50,000 Échelle



1 - 10, 1981 by Geo Teck Services Ltd. under contract to Turnex Exploration Services Ltd.

It is concluded the VLF electromagnetic and magnetometer geophysical surveys outlined a mineral target of interest for further development on MIKE claims #1 and #2. The results of the geochemical survey showed scattered anomalous zones for copper on MIKE claims #3 and 5.

A diamond drill test is recommended for the coincident VLF electromagnetic and magnetic anomalous zone along the baseline between MIKE claims #1 and #2. Claim Location Surveying is recommended to establish the perimeter of the claimed ground.

PROPERTY - LOCATION, ACCESS, PHYSIOGRAPHY  
AND ENVIRONMENTAL CONSIDERATIONS

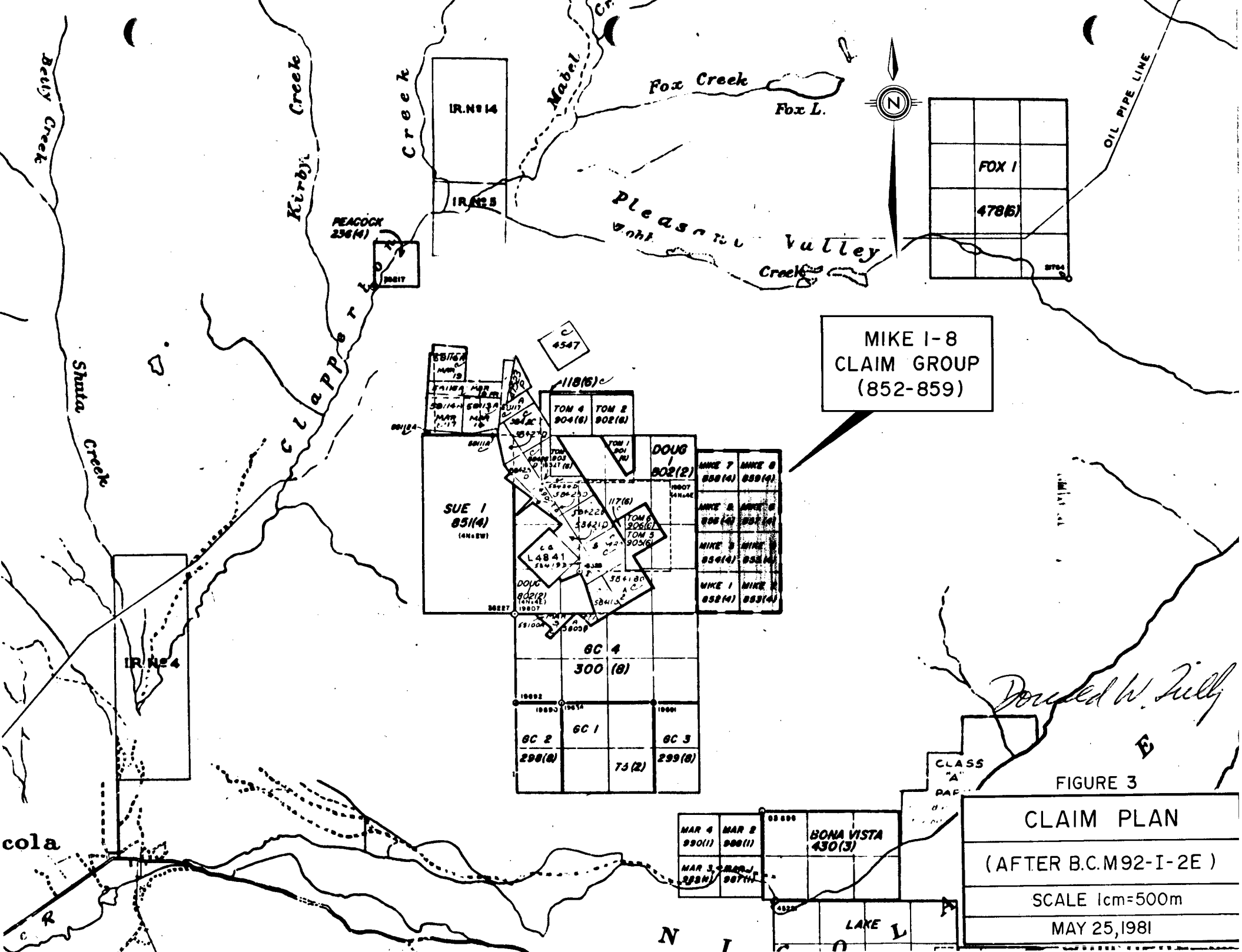
The MIKE Claim Group is located about twenty-three kilometres northeast of Merritt, British Columbia. The property is easily accessible by gravel road going northward from the Town of Nicola on Highway 5 (Figure 2).

Elevations vary between 3,800 and 5,000 feet over the claim area.

Hydro-electric power is available nearby but water for any immediate industrial needs may require transportation to the job site.

School, hospital and a supply-centre for modern town conveniences are available at Merritt.

The climate is dry with long, pleasant, summer periods. Average rainfall is light and the winters are



MIKE 1-8  
CLAIM GROUP  
(852-859)

*Donald W. Jilly*

FIGURE 3

CLASS "A" PAF	
CLAIM PLAN	
(AFTER B.C.M92-I-2E)	
SCALE 1cm=500m	
MAY 25, 1981	

MAR 4 990(1)	MAR 2 998(1)	00000	BONA VISTA 430(3)
MAR 3 989(1)	MAR 1 997(1)		

LAKE	L
------	---

N I C O L

generally moderate allowing round-the-year operations.

### CLAIMS

The property consists of eight mineral claims located in the Nicola Mining Division and recorded with the British Columbia Ministry of Energy, Mines and Petroleum Resources at Merritt, British Columbia as follows:

<u>Claim Names</u>	<u>Record Nos.</u>	<u>Record Date</u>
MIKE #1 - 8	852(4) - 859(4)	April 28, 1980

The claims are shown on British Columbia mineral claim map M92-I-2E.

### HISTORY - PREVIOUS DEVELOPMENT

The history of the previous development work done on the ground now held by the MIKE #1 - 8 claim group is closely identified with that of the adjoining DOUG I mineral claim on the west (Figure 3), better known in former years as the Turlight and Copperado property and later as the Toluma Mining and Development Company. Toluma previously held the ground now controlled by the MIKE claim group, therefore the history of the Toluma property is in part pertinent information hereto, as follows:

" About the year 1920 a high-grade quartz-chalcopyrite vein was discovered north of Nicola Lake on ground that later became known as the Turlight



" group of claims. The mineralized vein occupied a strong shear zone which was trenched and subsequently developed by a shallow decline shaft to about sixty feet in the period 1928-1929. A small body of copper-silver ore was indicated from this work.

Turlight Mines Ltd. held the property until 1947 when it was acquired by the Guichon Mine Limited. Anaconda Copper Mining Company optioned the claims and did 2,578 feet of diamond drilling before relinquishing the ground in 1948. At this time the property became known as the Copperado Mine when additional diamond drilling and deepening of the shaft to 270 feet, including lateral work on the 200-foot level, was done. In 1950-1951, the decline shaft had been sunk to the 450-foot level with drifting and cross-cutting amounting to 615 feet done on the 100, 325 and 425-foot levels. Some 150-200 tons of copper ore, reported to average five percent copper per ton, was shipped at that time to the smelter at Tacoma, Washington. Some geophysical surveying was done on the claims in 1951 and a company named Copperstar Mine Ltd. acquired an interest in the property about this time. By 1956, Western Copperado Mining Corporation had acquired control of the Guichon Mine property and dewatered the shaft. This company drilled some 2,000 feet of diamond drill holes on the 200-foot level and shipped about 45 tons of ore said to grade 6.91 percent copper to Tacoma. In 1957, a geophysical survey was done over the property and twenty diamond drill holes totaling 9,962 feet were drilled to test several anom-

"alous zones. About a mile north of the Turlight shaft a short adit was driven and several short holes were drilled in a mineralized zone.

Toluma Mining and Development Co. Ltd. optioned the property in 1960 and did extensive surface exploration work including induced polarization (McPhar) and geochemical surveys as well as bulldozer trenching of the resulting anomalous zones. A spontaneous polarization survey was carried out over the ground and developed two mineralized zones of interest in the northwest and southeast sectors of the property. The southeast area of the property was given special attention and tested with six diamond drill holes and trenching. The results of this work in the period 1961-1962 appear to have been encouraging considering the then prevailing metal prices for copper and molybdenum.

Rio Tinto Canadian Exploration Limited did a magnetometer survey under an option agreement over the northwest and southeast zones in 1965.

Great Slave Mines Ltd. optioned the property in 1966 and did magnetometer, photogeological and geochemical studies of the ground in 1967. During this period a joint British Columbia-Federal Government aeromagnetic survey was done over the region. "

REFERENCES

The following publications and reports, available to the writer, are considered pertinent to the MIKE #1 - 8 mineral claim group and are as follows:

B.C. Reports of the Minister of Mines for the years

1929 - p. C246  
 1947 - p. 136  
 1948 - p. 120  
 1949 - pp. 115-120  
 1950 - p. 112  
 1951 - p. 128  
 1952 - p. 119  
 1956 - p. 47  
 1957 - p. 29  
 1961 - pp. 45-46  
 1962 - p. 56  
 1963 - p. 54  
 1964 - p. 95

Geological Survey of Canada Memoir 249 - p. 130-131

Geological Survey of Canada Map 886A

Geological Survey of Canada Aeromagnetic Map 5209G

Reports on the Copperado Mine Property, Nicola Mining Division, for Danstar Mines Ltd., by M.K. Lorimer, P.Eng., dated 18 December 1973 and 17 January, 1974

Geological Report on the Turlight Property for Toluma M. & Development Co. Ltd. by R.W. Phendler, P.Eng., dated June 1973

Geological Report on the Turlight Property for Copper Ridge Mines Ltd. by R.W. Phendler, P.Eng., dated May 24, 1972

Report on the Copperado Property for Toluma M. & Dev. Co. Ltd. by D. Calimente, dated October 19, 1965

Rio Tinto Canadian Explorations Ltd., map of Guichon Mine mineral claims and assembled data dated January 1965

Final Progress Report on the First Exploratory Stage on the Copperado Property for Great Slave Mines Ltd. by N.C. Lenard, P.Eng., dated February 20, 1967

Soil Sampling - Molybdenum, map by W.B. Montgomery, P.Eng., dated September, 1963

- Induced Polarization and Resistivity Survey Profiles by  
McPhar Geophysics Ltd., August 30, 1963
- Report on the Toluma Mining and Development Property near  
Nicola, British Columbia, by Dr. A.C. Skerl, dated  
April 2, 1963
- Report on Induced Polarization and Resistivity Surveys on  
the Copperado Mine Property (McPhar Geophysics Ltd.)  
by D.B. Sutherland, M.A., dated July 18-19, 1963
- Report on a Geochemical Survey on the Copperado Mine Prop-  
erty by W.B. Montgomery, P.Eng., dated August 1, 1962
- S.E. Anomalous Area - Map - Copperado Mine by W.B. Mont-  
gomery, P.Eng., dated June, 1962
- Geochemical Survey - Map - Copperado Mine, Rubeanic Acid  
Test Reactions by W.H. Montgomery, P.Eng., dated  
January, 1962
- Surface Geology - Map - Copperado Mine, by A.R. Allen and  
W.B. Montgomery, dated January, 1962
- Report on Geophysical and Geochemical Surveys for Toluma  
Mining and Development Co. Ltd. by S.F. Kelly for  
Geophysical Explorations Ltd., dated February-July  
1961
- Self Potential Readings Map - Copperado Mine by G. Bernios  
(undated)
- Geological Appraisal of The Guichon Mine Property by R.E.  
Renshaw dated December 16, 1960
- A Surface Contour Map - Southern Portion - Copperado Prop-  
erty by McElhanney Air Surveys Ltd., dated 1960
- Report on the MIKE #1-8 Mineral Claim Group for Newline  
Resources Ltd. dated May 24, 1980 by Donald W. Tully,  
P.Eng.

Many of the above references are from the files  
of Mr. Sherwin F. Kelly, Consultant, Merritt, British Col-  
umbia.

## GEOLOGY

The geology of the property is shown on Geological Survey of Canada Map 886A.

The MIKE #1-8 mineral claim group is situated at the southern end of the Nicola Batholith (Figure 4). The batholith carries melanocratic and leucocratic contact-phase masses in the area of the property and metamorphosed remnants of the contact area of the Nicola volcanics.

A tentative timetable of formations and events is as follows:

<u>Formation</u>	<u>Description/Event</u>	<u>Age</u>
Sand, gravel and glacial debris	Unconsolidated (Erosional unconformity)	Quaternary
Mineralization and quartz veining with metamorphism	Gold, silver, bornite, chalcopyrite, molybdenite, pyrite  (Folding, faulting, shearing, fracturing related to tectonic activity)	Tertiary (?)
Melanocratic and leucocratic phases of the Coast Intrusions - Nicola Batholith	Granite, granodiorite, syenite, monzonite, diorite and porphyry  (Tectonic activity)	Jura-Cretaceous
Inclusions and roof pendants of Nicola volcanics and earlier sediments	Slate, argillite, conglomerate and hornfels, greenstone, schist, amphibolite and gneiss	Late Paleozoic and Early Triassic

Shearing and fracturing trend north to northwesterly across the claim area and appear to be the structural control for the locus of mineralization.

### MINERALIZATION

Bornite and chalcopyrite mineralization was reported by the stakers of the MIKE claim group along the location line in the north-central sector of the claim area. This may explain the geochemically anomalous areas for copper along the location line between MIKE claims #5 and #6 (Figure 6).

Geological Survey of Canada Aeromagnetic Map 5209G shows a north-south trend over the MIKE claim area probably reflecting the basement bedrock structure.

### RESULTS OF THE 1981 PROGRAM OF GEOPHYSICAL AND GEOCHEMICAL SURVEYS

VLF electromagnetic and magnetometer geophysical surveys and a geochemical soil sampling program was carried out on the MIKE claim group during the period April 1 through April 10, 1981 by Geo Teck Services Ltd. under contract to Turnex Exploration Services Ltd.

The field personnel were:

R.N. Wank - Contractor and field technician  
M. Kloss - Field technician  
H. Wholstenholme - Field Technician

Mr. Wank has described the field procedures used in the surveys in the APPENDIX to this report.

Survey control was achieved by establishing a north-south baseline in the area of the location line between MIKE claims Nos. 1, 3, 5, 7 and 2, 4, 6, 8. The ground was then traversed by compass and chain lines run east and west at 100-metre intervals over the claim area. Instrument readings and geochemical soil sample station positions were established as shown on the plans and marked with red and blue flagging.

Detail magnetometer and VLF - 2 electromagnetic surveying is shown on Figure 7.

#### VLF Electromagnetic Survey (Figures 4 and 7)

A Phoenix VLF - 2 electromagnetic unit instrument, serial No. 1061, was used during the field survey.

Station readings were taken at 50-metre intervals along east and west traverse lines from the baseline about 100 metres apart.

On Figure 4 a strong electromagnetic conductor zone occurs in an arcuate shape along the baseline between lines 2+00N and 5+00N. An indication of the southwest projection of this anomaly appears at 1+75W on line 0+00. This anomaly zone coincides with the magnetic anomaly in the same area on MIKE claims #1 and #2.

On Figure 7 the detail VLF - 2 electromagnetic surveying done along lines 100 metres apart with stations at 25-metre intervals shows several north-trending apparent electromagnetic conductor anomalies in the vicinity of the baseline and within the area of strong magnetic intensity on MIKE claims #1 and #2.

### Magnetometer Survey (Figures 5 and 7)

A GEM System magnetometer instrument, serial no. 1202, was used in the field survey.

Station readings were taken at 50-metre intervals along lines about 100 metres apart and traversing the claim area in an east-west direction. Lines were run east and west from a baseline. The magnetometer readings were corrected for diurnal variation and plotted. The results have been isomagnetically contoured at 100 gamma intervals where possible as shown. The total magnetic relief over the surveyed area was found to be 4,716 gammas. The highest reading was 12,021 gammas and the lowest was 7,285 gammas for a magnetic relief of 4,736 gammas over the claim area.

The magnetic trend is northerly. Strong magnetic anomalies occur over the MIKE #2 and #4 claims and in the area of the common boundary of MIKE claims #6 and #8. This anomaly includes a "Low" which coincides with an apparent electromagnetic conductor zone.

On Figure 7 the detail magnetometer surveying shows a strong north trending zone of magnetic intensity between lines 1+00N to 5+00N immediately east of the baseline on MIKE claims #1 and #2.

Geological mapping is recommended to investigate the reasons for the zones of stronger magnetic intensity.

### Geochemical Soil Sample Survey (Figure 6)

152 soil samples were taken from the "B" soil horizon in most instances. The samples were analyzed by Chemex Labs Ltd., North Vancouver. Copies of the assay certificates are shown in the APPENDIX to this report.



The results of the analyses are summarized as follows:

Range of Results

<u>No. of Samples</u>	<u>Range</u>	<u>No. of Samples</u>	<u>Range</u>
108	0 - 50 ppm	130	0 - 2 ppm
17	51 - 100 ppm	22	3 - 4 ppm
10	101 - 200 ppm		
6	201 - 300 ppm		
3	301 - 400 ppm		
5	401 - 1000 ppm		
<u>3</u>	1001 - 3000 ppm	<u>      </u>	
<u>152</u>		<u>152</u>	

The lowest value for copper was six parts per million and the highest was 3,000.

The lowest value was one part per million for molybdenum and the highest was four. Nine values grouped to form one anomalous area for molybdenum on MIKE claims #4 and #6.

Anomalous values in copper were found on MIKE claims #3 and #5 and along the common boundary of MIKE claims #5 - 6. The anomalous trend is northerly.

Due to the abundant outcrop of leucocratic

and melanocratic phases of the Nicola batholith on MIKE claims #7 and #8 only scattered geochemical soil samples were taken in this area of the claim group.

Respectfully submitted,



Donald W. Tully, P. Eng.

May 25, 1981

CERTIFICATE

I, DONALD WILLIAM TULLY, of the City of West Vancouver, Province of British Columbia, hereby certify as follows:

- 1) I am a Consulting Geologist with an office at Suite 102, 2222 Bellevue Avenue, West Vancouver, B.C.
- 2) I am a registered Professional Engineer of the Provinces of British Columbia and Ontario.
- 3) I graduated with a degree of Bachelor of Science, Honours Geology, from McGill University in 1943.
- 4) I have practiced my profession for thirty-five years.
- 5) I have no direct, indirect or contingent interest in the securities of NEWLINE RESOURCES LTD., of the MIKE #1-8 mineral claim group, subject of this report, nor do I intend to have any interest.
- 6) This Assessment Report dated May 25, 1981, is based on personal field examinations I made on the claims on May 11, 1980 and on May 23, 1981, and from information gathered from available maps, reports and personal communications.
- 7) Written permission is required from the author to publish this report dated May 25, 1981 in any Prospectus or Statement of Material Facts.

DATED at West Vancouver, Province of British Columbia, this 3rd day of June, 1981.



DONALD W. TULLY, P. ENG.,  
Consulting Geologist

**APPENDIX**

**DON TULLY ENGINEERING LTD.  
SUITE 102 - 2222 BELLEVUE AVENUE  
WEST VANCOUVER, BRITISH COLUMBIA  
V7V 1C7**

## SURVEY PROCEDURES

### NEWLINE RESOURCES LTD.

MIKE CLAIMS #1-8 (Record Nos. 852(4) - 859(4))

#### FIELD PERSONNEL

R.N. Wank - (Contractor - Watson Lake, Y.T.)  
M. Kloss - Field Technician  
H. Wholstenholm - Field Technician

#### PERIOD OF SURVEY

April 1 to April 10, 1981

The contract consisted of completing a survey grid, soil samples, magnetometer survey and E.M. survey.

The Survey grid was completed with compass and hip chain, with a base line running North-South through the middle of the eight claims. Each line runs 500 metres West of Base Line and East of the Base Line. Every 50 metre point along Base Line was marked with a picket. Every 50 metre station along survey lines were marked with ribbons.

The magnetometer survey was completed with the use of the Gem systems magnetometer Serial #1202.

Readings were taken every 50 metres with base stations at the intersections of the base line and the survey lines. Readings were corrected for Diurnal variations.

Detail work was then done over the stronger anomalies. This detail work was done approximately 300 metres on either side of the base line (3+00W to 3+00E) for lines 1+00N to 6+00N. 25 metre spacings were used when taking readings.

The Electromagnetic survey was completed with the use of the Phoenix VL-2 unit serial #1061.

Seattle Washington (186 KHZ) and Cutler Main (17.85 HZ) were used as transmitting stations.

Readings were taken every 50 metres along each one of the lines 0+00N to line 19+00N. Instrument was oriented on NLK, readings then were taken on the Horizontal field strength, out of phase and dip angle. These readings were taken on both high and low frequencies where available.

Detail work was then done over the same anomalous area as the magnetometer. (Line 1+00N to line 6+00N, stations 3 West of 3 East).

Soil samples were taken at 100 metre spacings over all survey lines and base lines.

The Geochemical survey was completed by taking soil samples every 100metres along all survey lines. The average depth of the soil samples was approximately 8" taken in the Cr horizon. Ninety percent of the soil samples taken were a light fine sandy material light brown in color. A few samples were clayish in type and greyer in color.

There are a total of 152 soil samples taken. Lines 19+00N through to line 15+00N did not have any soil samples taken due to heavy snow and frost conditions. The samples were then shipped to Chemec Labs Ltd. in Vancouver for analysis of Molly (Molybdenum) and Copper.

ROBERT WANK  
GEOTECH SERVICES LTD.



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: (604)984-0221  
 TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : TURNEX EXPLORATION SERVICES LTD.  
 704-525 SEYMOUR ST.  
 VANCOUVER, B.C.  
 V6B 3H7

CERT. # : A8110859-001-A  
 INVOICE # : I8110859  
 DATE : 06-MAY-81  
 P.O. # : NONE  
 MIKE CLAIMS

ATTN: CLIFF TURNER

Sample description	Prep code	Cu ppm	Mo ppm				
BL 6.00N	201	16	1	--	--	--	--
BL 8.00N	201	88	1	--	--	--	--
L0+00N 1E	201	24	1	--	--	--	--
L-0 2E	201	12	1	--	--	--	--
L-0 3E	201	18	1	--	--	--	--
L-0 4E	201	36	1	--	--	--	--
L-0 5E	201	14	1	--	--	--	--
L-1 1E	201	18	1	--	--	--	--
L-1 2E	201	16	1	--	--	--	--
L-1 3E	201	20	2	--	--	--	--
L-1 4E	201	20	1	--	--	--	--
L-1 5E	201	14	1	--	--	--	--
L-2 2E	201	24	3	--	--	--	--
L-2 3E	201	32	1	--	--	--	--
L-2 4E	201	18	1	--	--	--	--
L-3 1E	201	34	1	--	--	--	--
L-3 2E	201	22	1	--	--	--	--
L-3 3E	201	20	2	--	--	--	--
L-3 4E	201	14	1	--	--	--	--
L-3 5E	201	12	1	--	--	--	--
L-4 1E	201	34	1	--	--	--	--
L-4 2E	201	38	1	--	--	--	--
L-4 3E	201	16	1	--	--	--	--
L-4 4E	201	14	1	--	--	--	--
L-4 5E	201	118	2	--	--	--	--
L-5 1E	201	10	1	--	--	--	--
L-5 2E	201	8	1	--	--	--	--
L-5 3E	201	36	1	--	--	--	--
L-5 4E	201	34	2	--	--	--	--
L-5 5E	201	110	4	--	--	--	--
L-6 1E	201	16	1	--	--	--	--
L-6 2E	201	36	1	--	--	--	--
L-6 3E	201	42	1	--	--	--	--
L-6 4E	201	38	3	--	--	--	--
L-6 5E	201	26	4	--	--	--	--
L-7 1E	201	52	2	--	--	--	--
L-7 2E	201	78	3	--	--	--	--
L-7 3E	201	30	3	--	--	--	--
L-7 4E	201	34	3	--	--	--	--
L-7 5E	201	24	1	--	--	--	--

Certified by *[Signature]*



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: (604)984-0221  
 TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS
-------------------------

TO : TURNEX EXPLORATION SERVICES LTD.  
 704-525 SEYMOUR ST.  
 VANCOUVER, B.C.  
 V6B 3H7

CERT. # : A8110859-002-A  
 INVOICE # : I8110859  
 DATE : 06-MAY-81  
 P.O. # : NONE  
 MIKE CLAIMS

ATTN: CLIFF TURNER

Sample description	Prep code	Cu ppm	Mo ppm				
L-8 1E	201	98	1	--	--	--	--
L-8 2E	201	20	1	--	--	--	--
L-8 3E	201	46	2	--	--	--	--
L-8 4E	201	98	3	--	--	--	--
L-8 5E	201	18	1	--	--	--	--
L-9 BL 0+00E	201	210	3	--	--	--	--
L-9N 1E	201	70	4	--	--	--	--
L-9N 3E	201	28	2	--	--	--	--
L-9N 4E	201	20	3	--	--	--	--
L-9N 5E	201	50	3	--	--	--	--
L10N BL 0+00E	201	265	2	--	--	--	--
L-10N 1E	201	68	2	--	--	--	--
L-10N 2E	201	265	2	--	--	--	--
L-10N 3E	201	74	4	--	--	--	--
L-10N 4E	201	30	2	--	--	--	--
L-10N 5E	201	12	1	--	--	--	--
L-11N 1E	201	28	1	--	--	--	--
L-11N 2E	201	10	3	--	--	--	--
L-11N 3E	201	28	2	--	--	--	--
L-11N 4E	201	70	3	--	--	--	--
L-12N 1E	201	60	1	--	--	--	--
L-12N 2E	201	44	1	--	--	--	--
L-12N 3E	201	40	2	--	--	--	--
L-12N 4E	201	38	2	--	--	--	--
L-12N 5E	201	12	4	--	--	--	--
L-13N BL 0+00W	201	3000	3	--	--	--	--
L-13N 1E	201	126	2	--	--	--	--
L-13N 2E	201	92	1	--	--	--	--
L-13N 3E	201	340	4	--	--	--	--
L-13N 4E	201	14	2	--	--	--	--
L-13N 5E	201	8	1	--	--	--	--
L-14N 1E	201	164	1	--	--	--	--
L-14N 2E	201	102	1	--	--	--	--
L-14N 5E	201	12	1	--	--	--	--
L-18N 3E	201	22	1	--	--	--	--
L-18N 4E	201	20	1	--	--	--	--
L-19N 1E	201	22	1	--	--	--	--
L-0+00N 1W	201	10	1	--	--	--	--
L-0 2W	201	16	1	--	--	--	--
L-0 3W	201	24	2	--	--	--	--

Certified by *[Signature]*







# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: (604)984-0221  
 TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS
-------------------------

TO : TURNEX EXPLORATION SERVICES LTD.  
 704-525 SEYMOUR ST.  
 VANCOUVER, B.C.  
 V6B 3H7

CERT. # : A8110859-003-A  
 INVOICE # : I8110859  
 DATE : 06-MAY-81  
 P.O. # : NONE  
 MIKE CLAIMS

ATTN: CLIFF TURNER

Sample description	Prep code	Cu ppm	Mo ppm				
L-0 4W	201	38	1	--	--	--	--
L-0 5W	201	110	1	--	--	--	--
L-1 1W	201	30	1	--	--	--	--
L-1 2W	201	22	1	--	--	--	--
L-1 3W	201	16	2	--	--	--	--
L-1 4W	201	16	3	--	--	--	--
L-1 5W	201	18	1	--	--	--	--
L-2 1W	201	22	1	--	--	--	--
L-2 2W	201	26	2	--	--	--	--
L-2 3W	201	24	3	--	--	--	--
L-2 4W	201	10	2	--	--	--	--
L-2 5W	201	8	2	--	--	--	--
L-3 1W	201	178	1	--	--	--	--
L-3 2W	201	26	1	--	--	--	--
L-3 3W	201	18	1	--	--	--	--
L-3 4W	201	52	1	--	--	--	--
L-3 5W	201	10	1	--	--	--	--
L-4 1W	201	16	1	--	--	--	--
L-4 2W	201	12	1	--	--	--	--
L-4 3W	201	10	1	--	--	--	--
L-4 4W	201	8	1	--	--	--	--
L-4 5W	201	8	3	--	--	--	--
L-5 1W	201	80	2	--	--	--	--
L-5 2W	201	10	1	--	--	--	--
L-5 3W	201	26	1	--	--	--	--
L-5 4W	201	22	1	--	--	--	--
L-5 5W	201	6	1	--	--	--	--
L-6 1W	201	10	1	--	--	--	--
L-6 2W	201	715	2	--	--	--	--
L-6 3W	201	16	1	--	--	--	--
L-6 4W	201	10	1	--	--	--	--
L-6 5W	201	12	1	--	--	--	--
L-7 1W	201	12	1	--	--	--	--
L-7 2W	201	14	1	--	--	--	--
L-7 3W	201	10	2	--	--	--	--
L-7 4W	201	8	1	--	--	--	--
L-7 5W	201	8	1	--	--	--	--
L-8 1W	201	935	2	--	--	--	--
L-8 2W	201	8	1	--	--	--	--
L-8 3W	201	10	1	--	--	--	--

Certified by *J. G. McNeil*





# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: (604)984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : TURNEX EXPLORATION SERVICES LTD.  
704-525 SEYMOUR ST.  
VANCOUVER, B.C.  
V6B 3H7

CERT. # : A8110859-004-A  
INVOICE # : I8110859  
DATE : 06-MAY-81  
P.O. # : NONE  
MIKE CLAIMS

ATTN: CLIFF TURNER

Sample description	Prep code	Cu ppm	Mo ppm				
L-8 4W	201	16	1	--	--	--	--
L-8 5W	201	12	1	--	--	--	--
L-9 1W	201	162	1	--	--	--	--
L-9 2W	201	10	1	--	--	--	--
L-9 3W	201	10	1	--	--	--	--
L-9 4W	201	8	1	--	--	--	--
L-9 5W	201	10	1	--	--	--	--
L-10 1W	201	330	1	--	--	--	--
L-10 2W	201	82	2	--	--	--	--
L-10 3W	201	24	1	--	--	--	--
L-10 4W	201	22	2	--	--	--	--
L-10 5W	201	40	2	--	--	--	--
L-11 1W	201	380	2	--	--	--	--
L-11 2W	201	54	1	--	--	--	--
L-11 3W	201	42	1	--	--	--	--
L-11 4W	201	36	2	--	--	--	--
L-11 5W	201	24	1	--	--	--	--
L-12 1W	201	112	1	--	--	--	--
L-12 2W	201	108	1	--	--	--	--
L-12 3W	201	245	1	--	--	--	--
L-12 4W	201	26	1	--	--	--	--
L-12 5W	201	280	1	--	--	--	--
L-13 1W	201	34	1	--	--	--	--
L-13 2W	201	1000	2	--	--	--	--
L-13 3W	201	890	1	--	--	--	--
L-13 4W	201	36	1	--	--	--	--
L-13 5W	201	96	1	--	--	--	--
L-14 2W	201	74	2	--	--	--	--
L-14 3W	201	880	1	--	--	--	--
L-14 4W	201	1750	1	--	--	--	--
L-14 5W	201	2200	3	--	--	--	--
L-15 5W	201	215	2	--	--	--	--



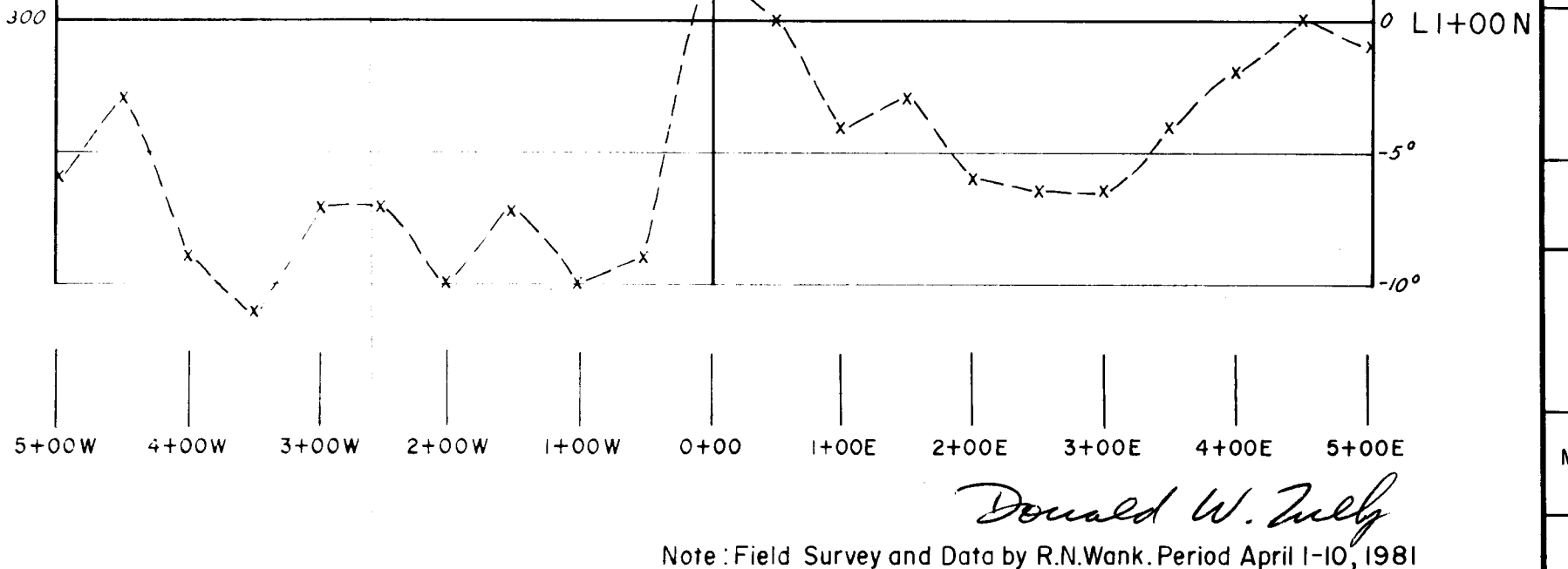
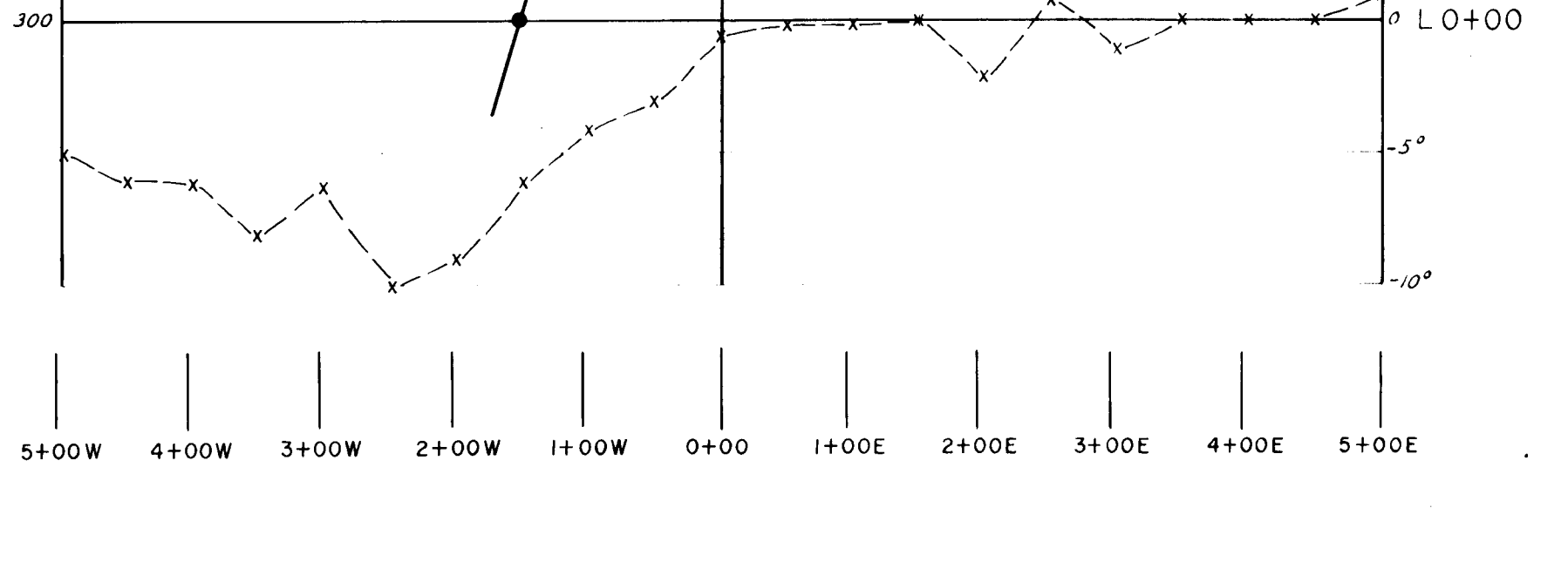
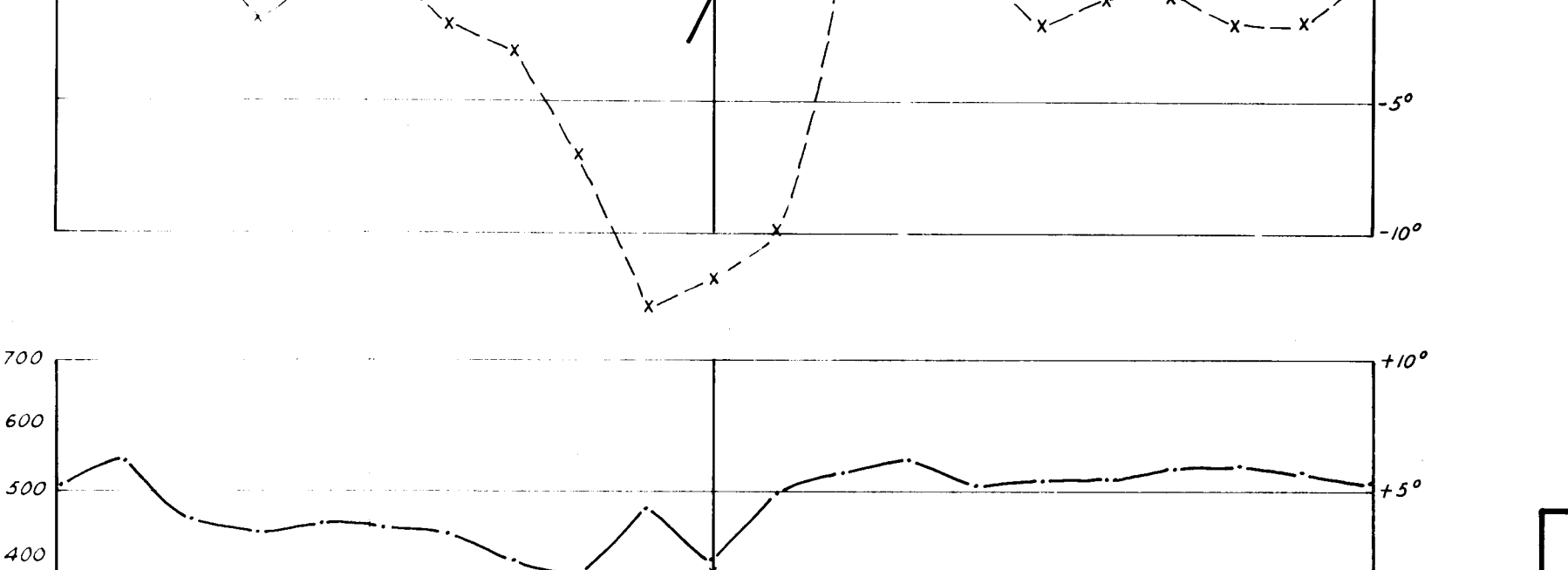
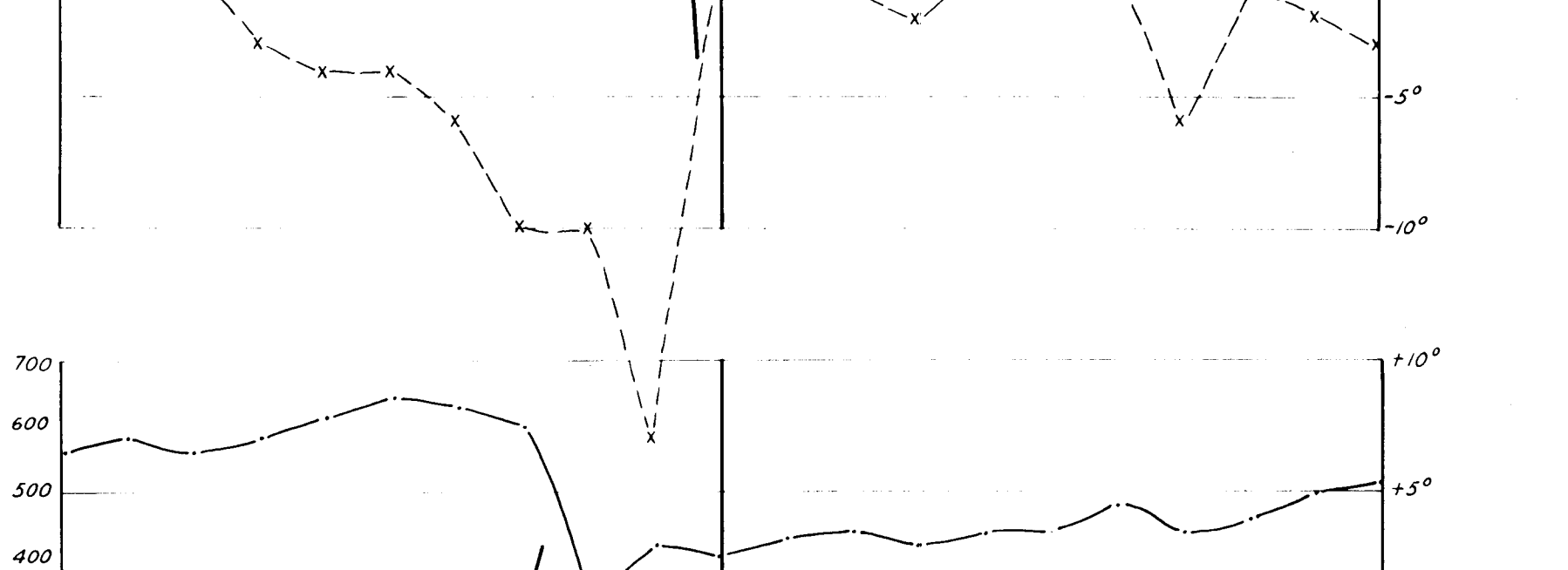
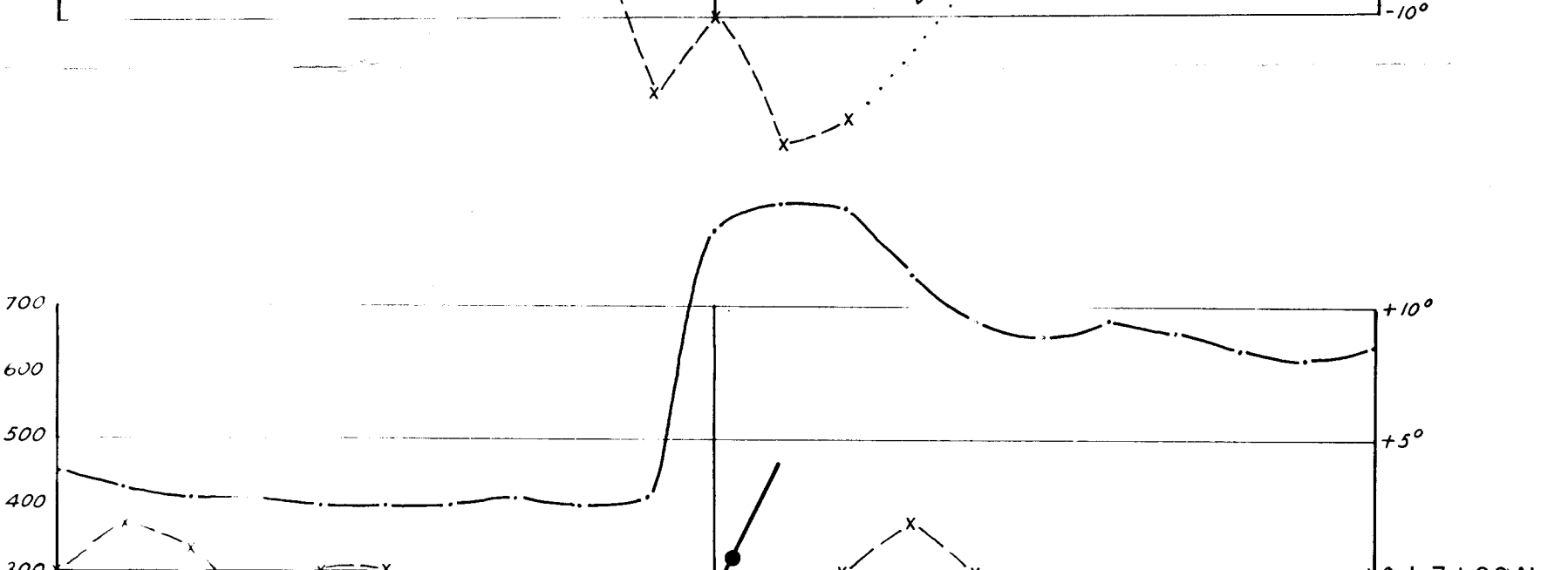
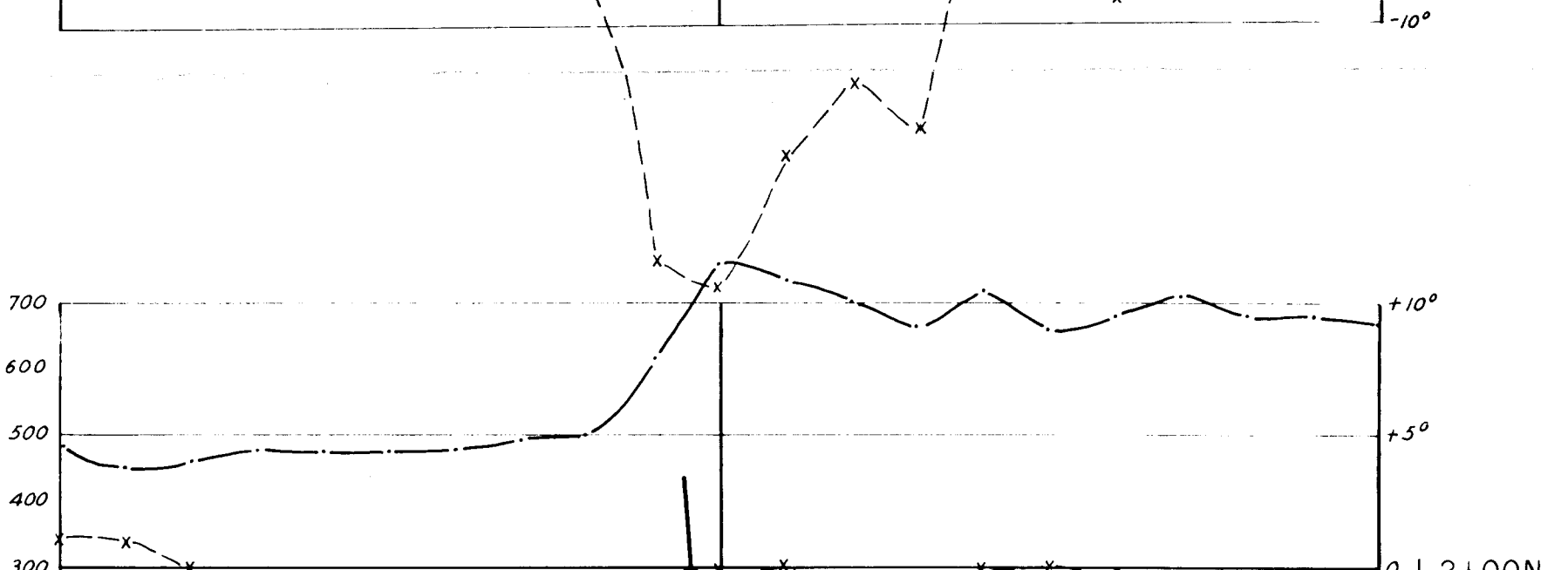
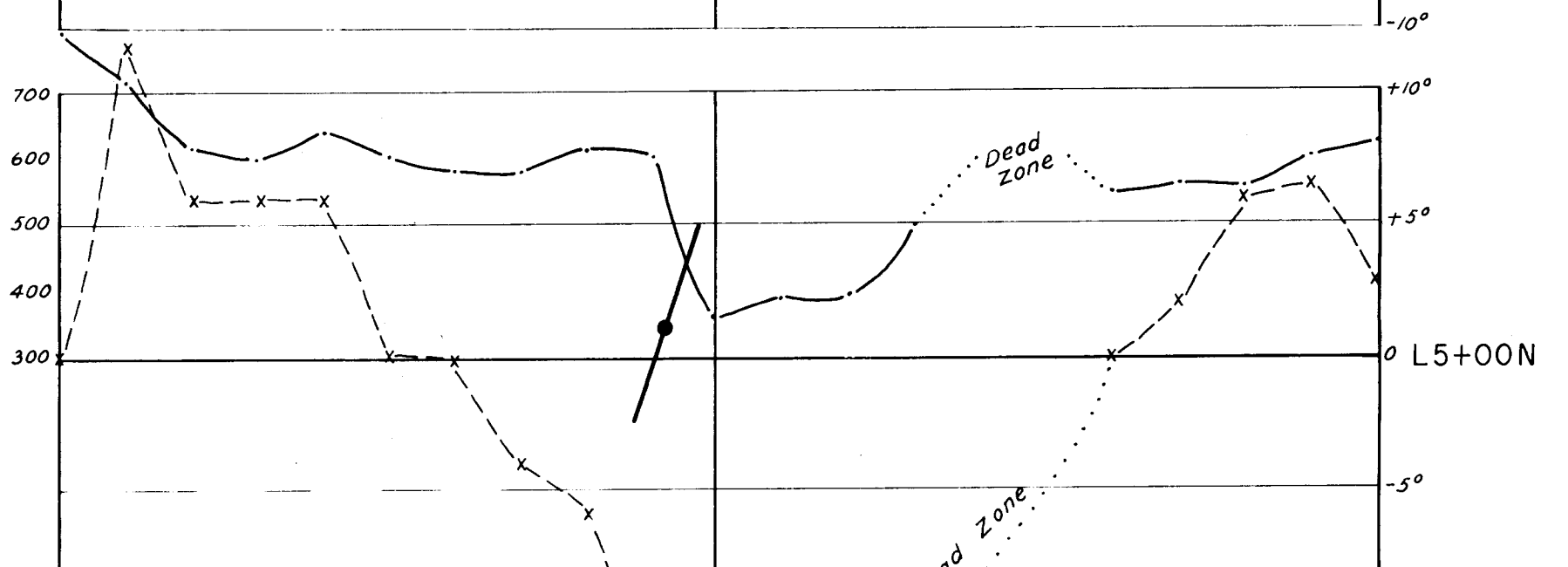
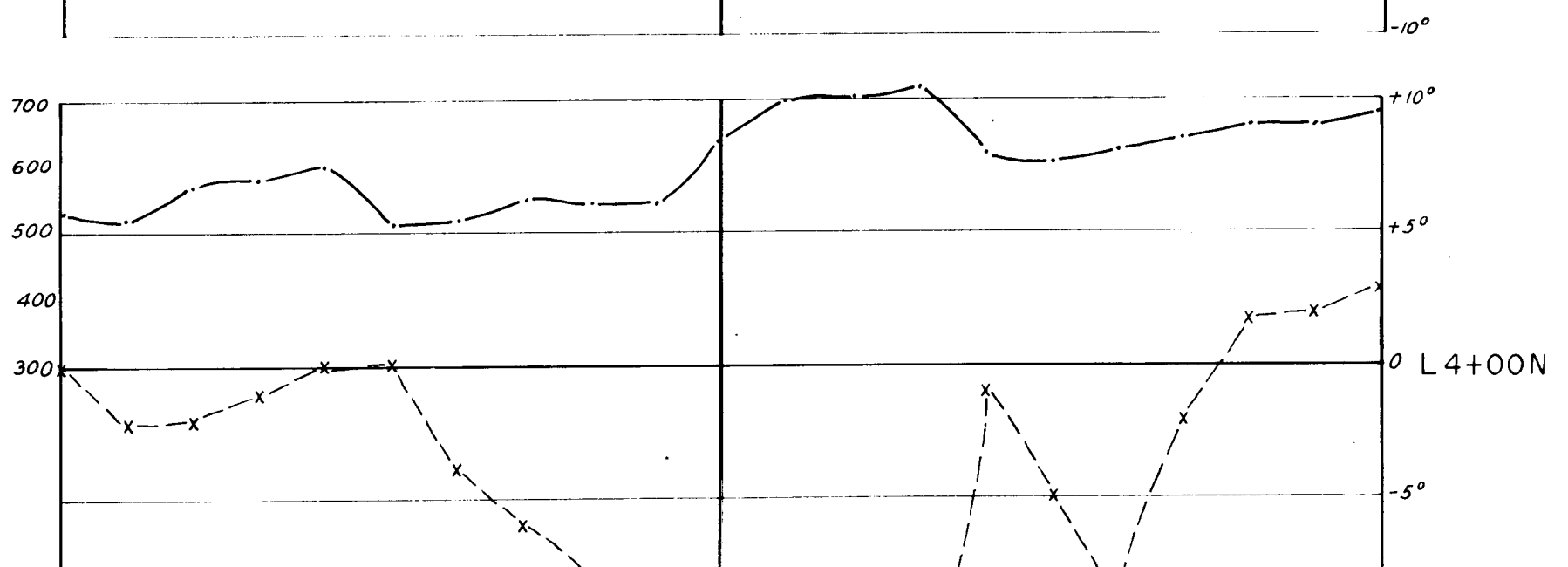
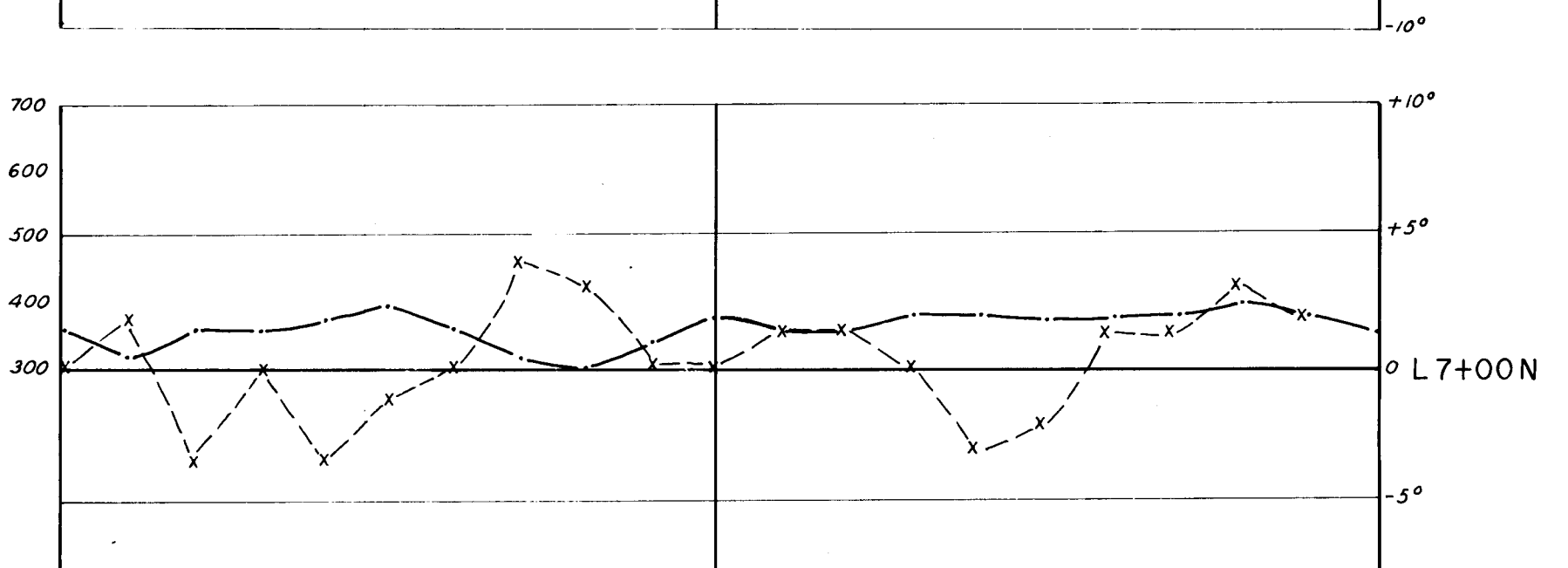
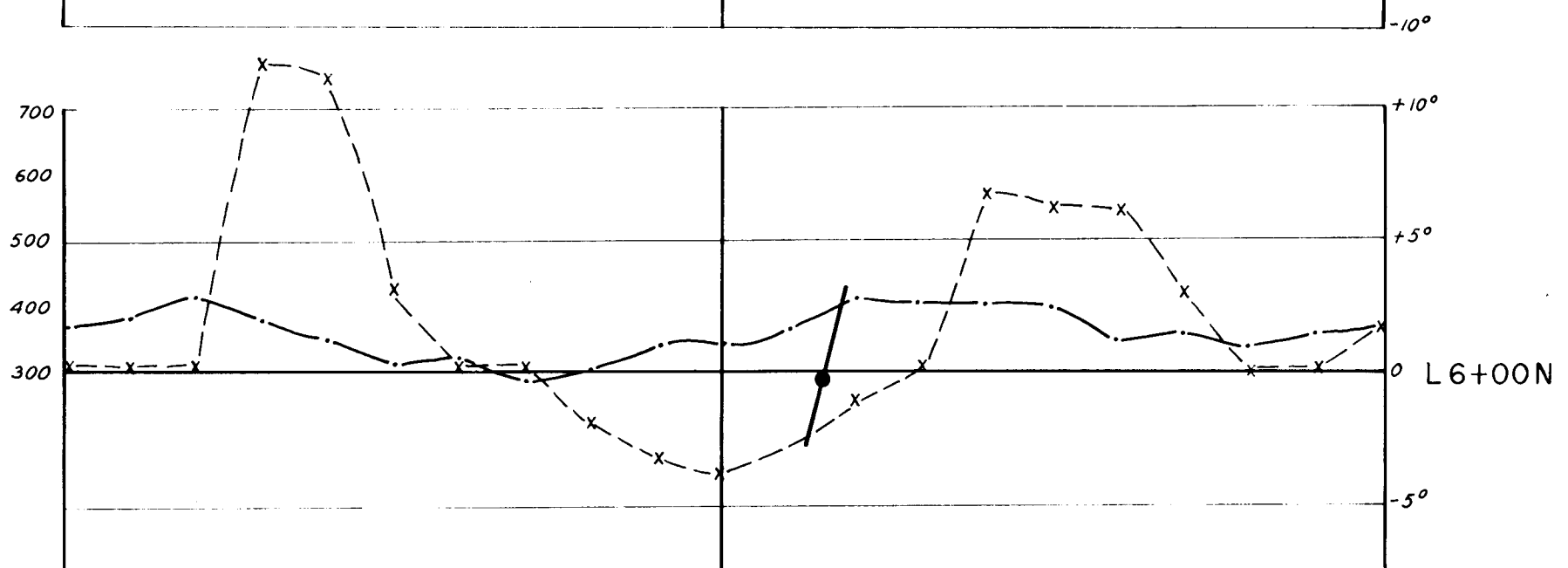
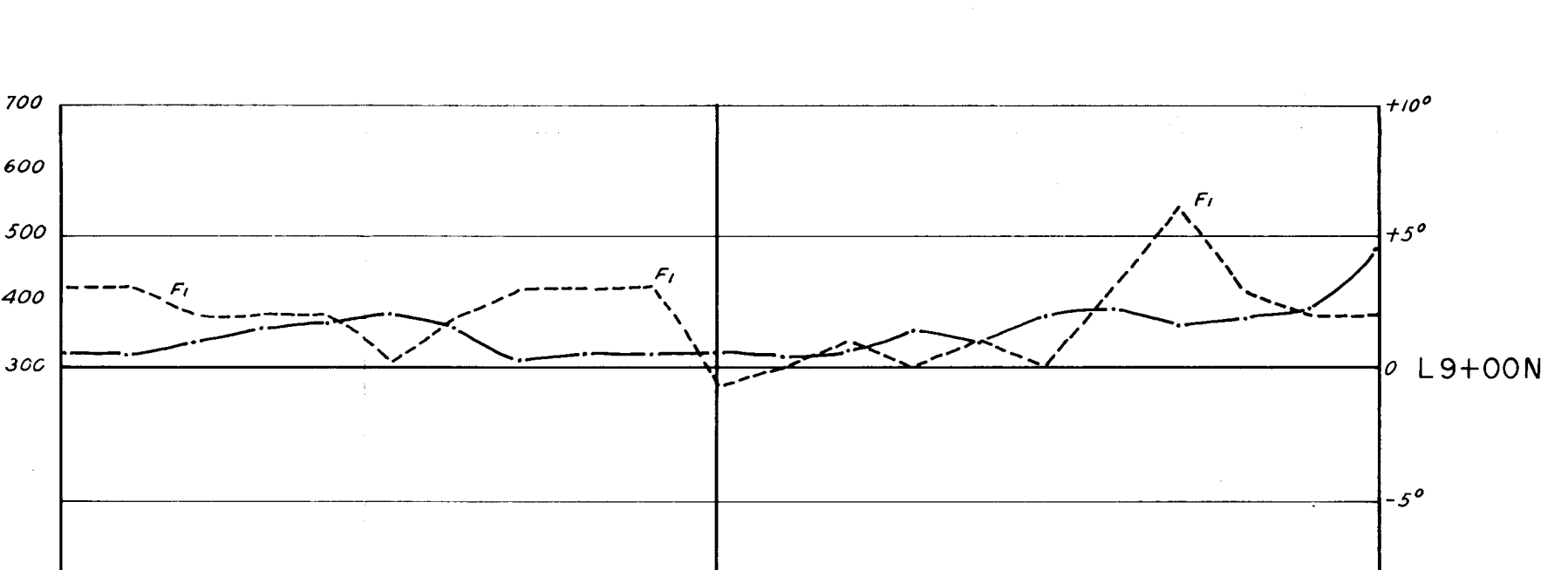
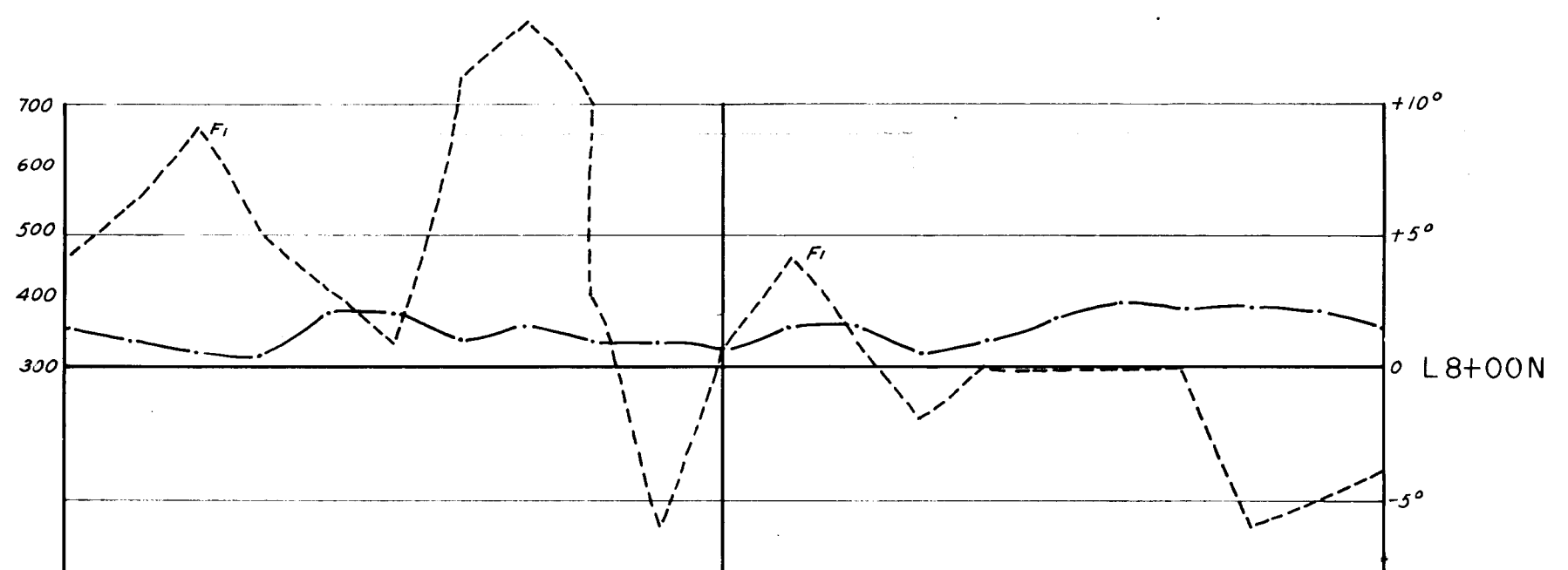
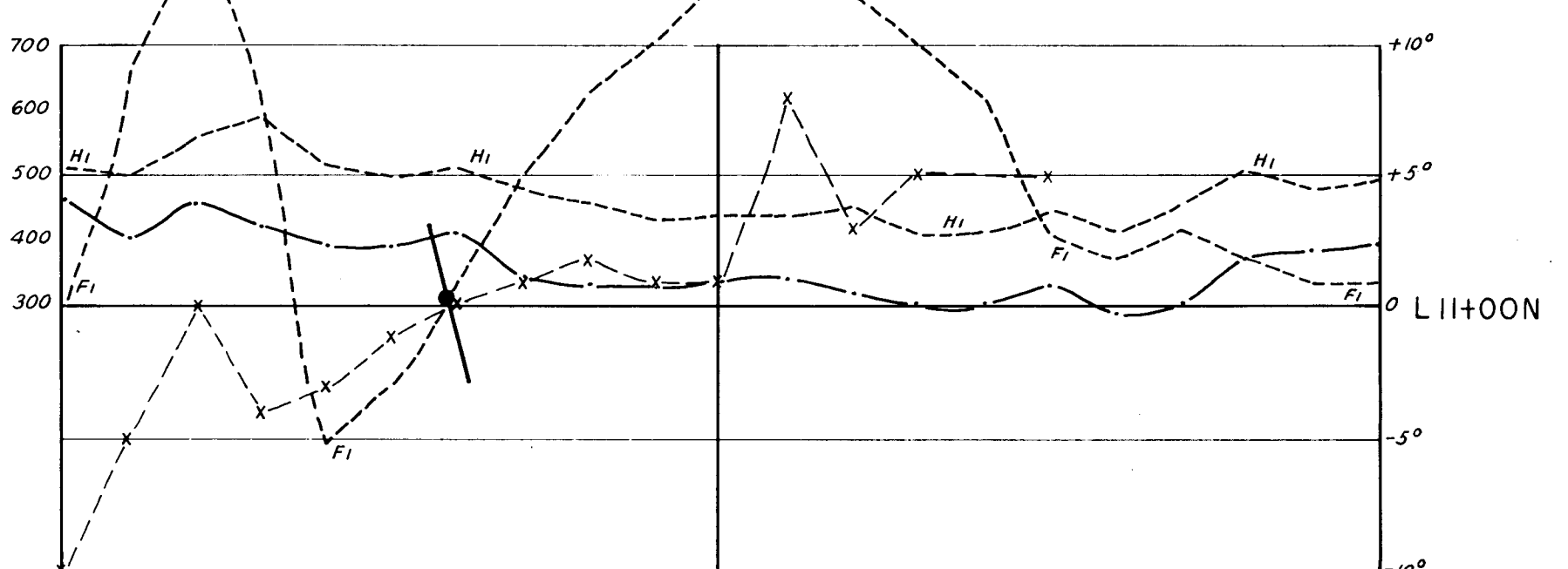
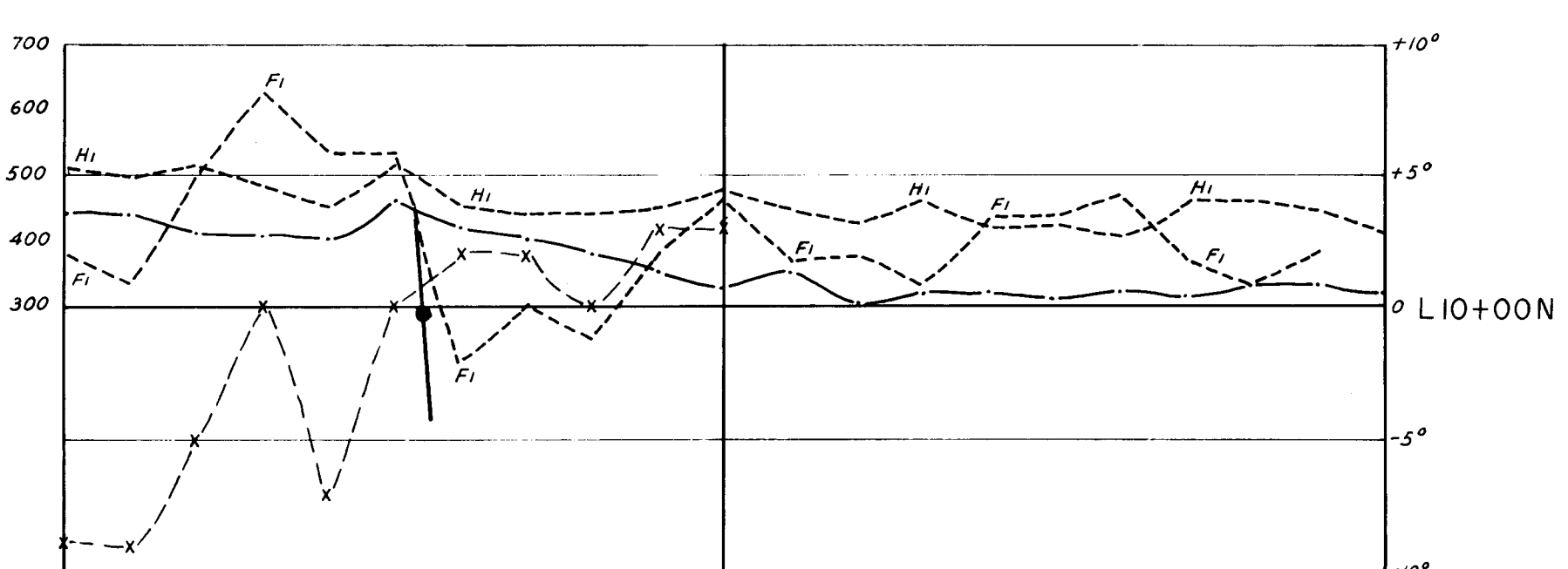
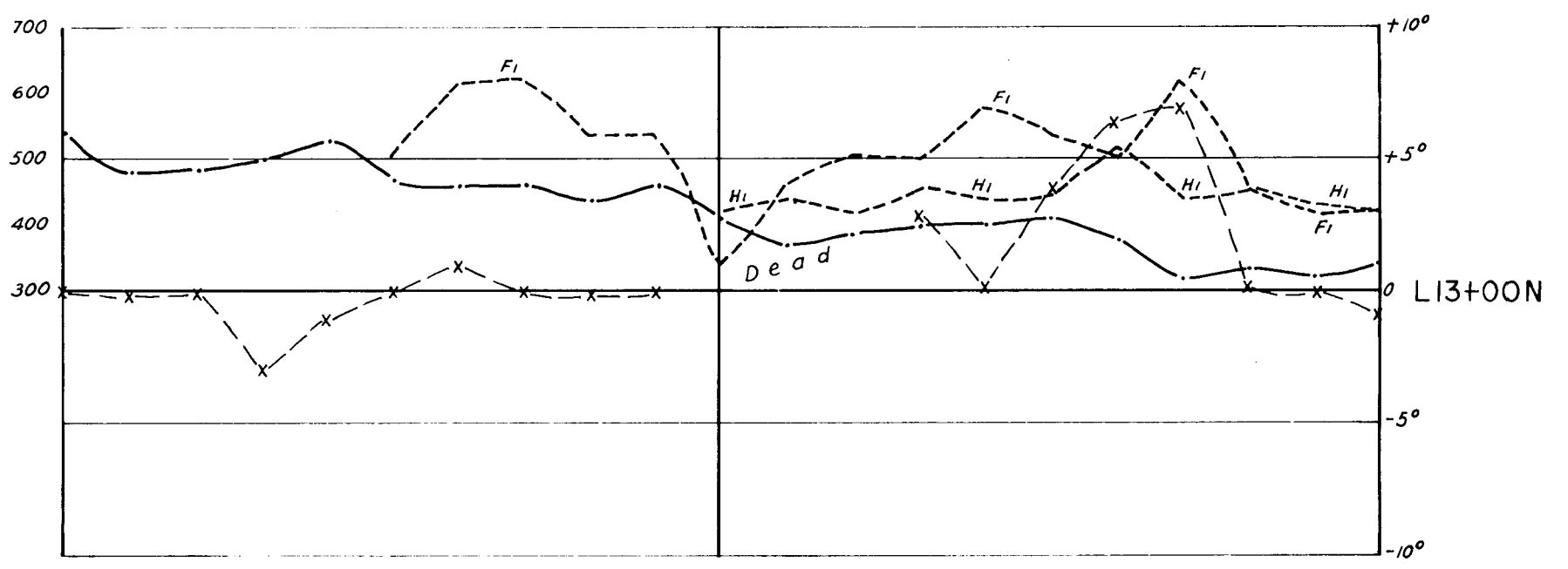
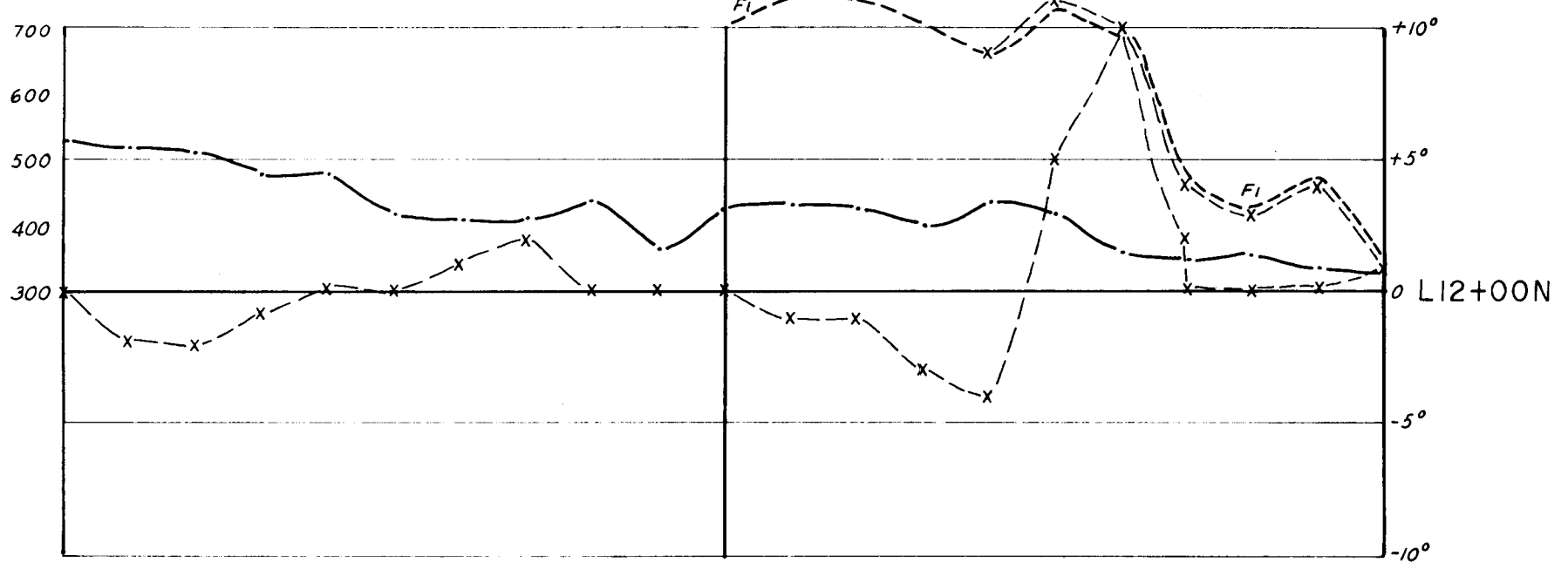
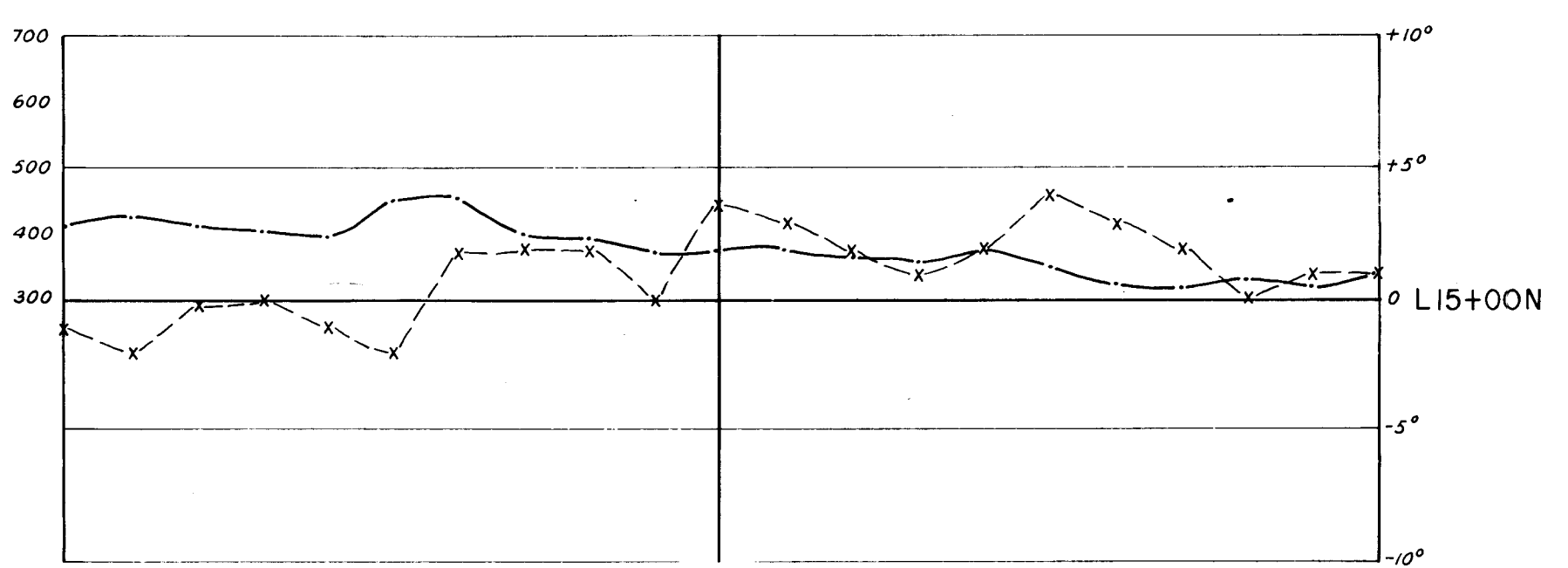
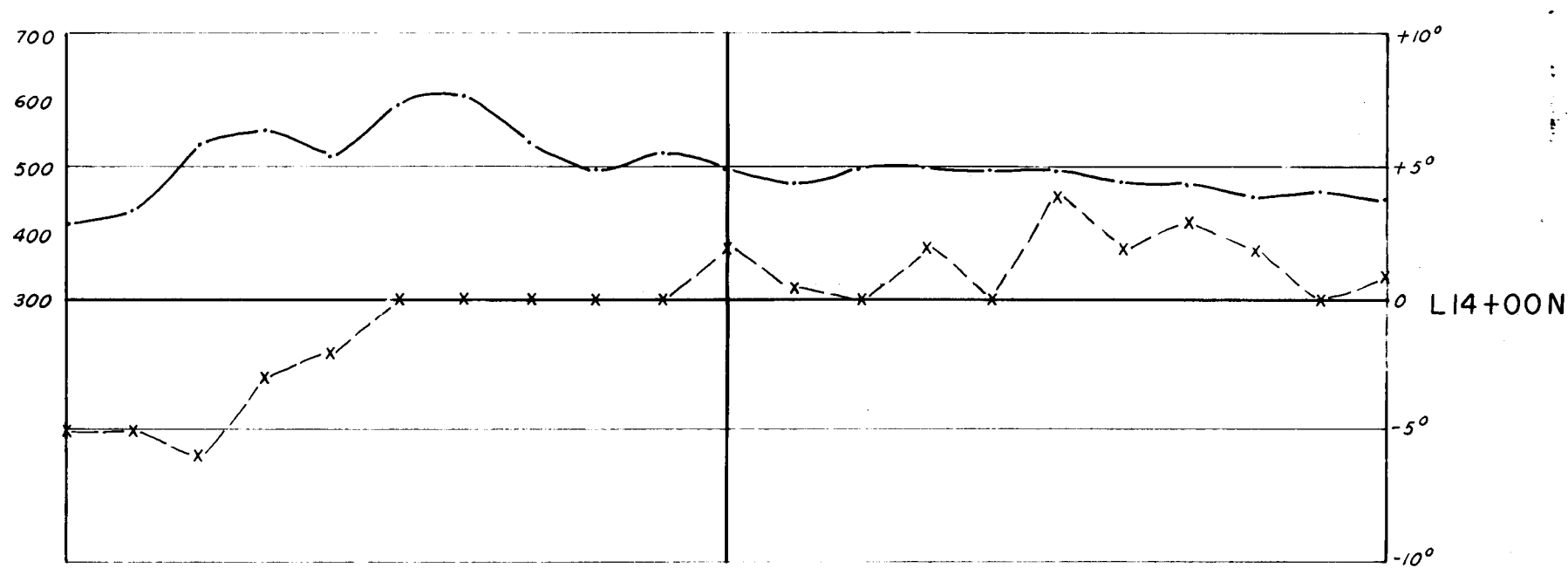
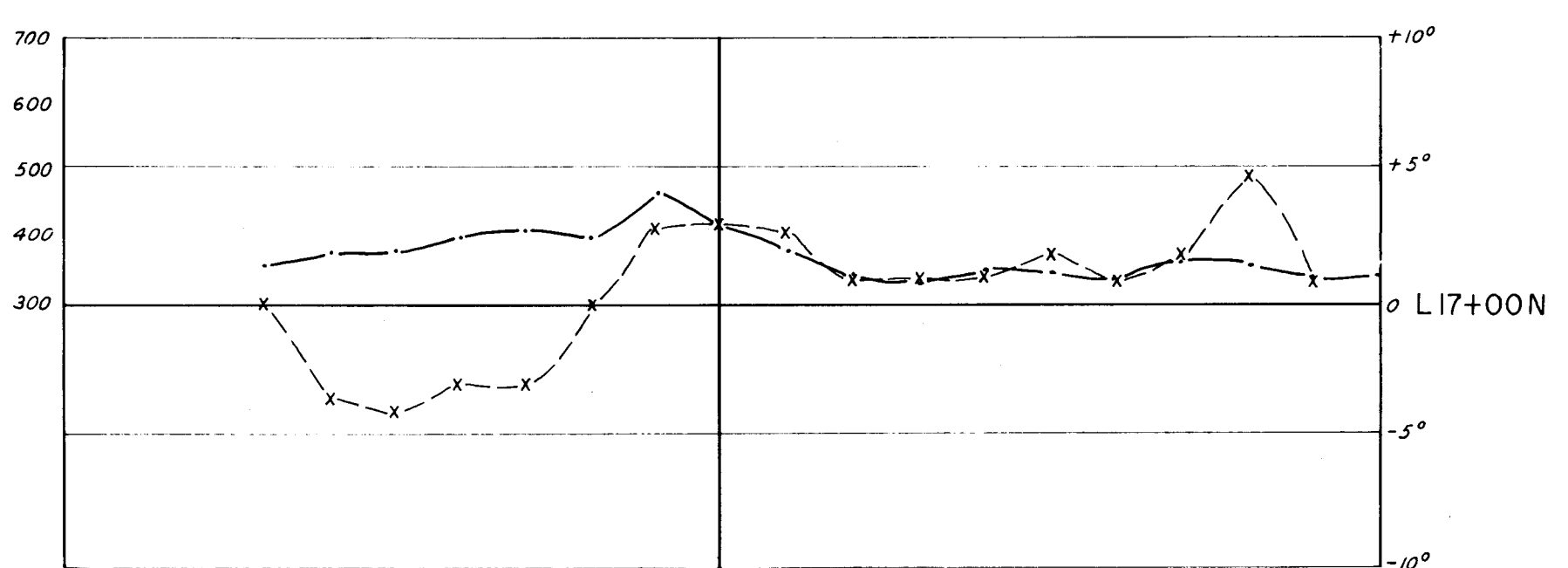
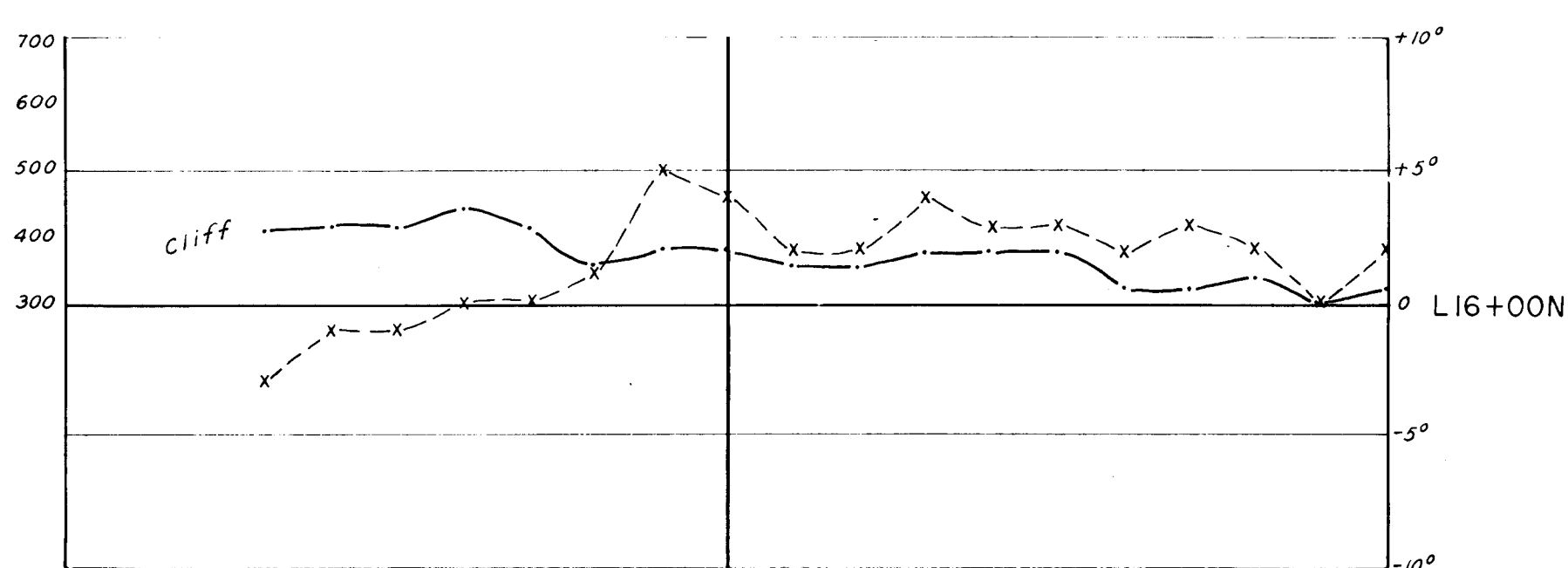
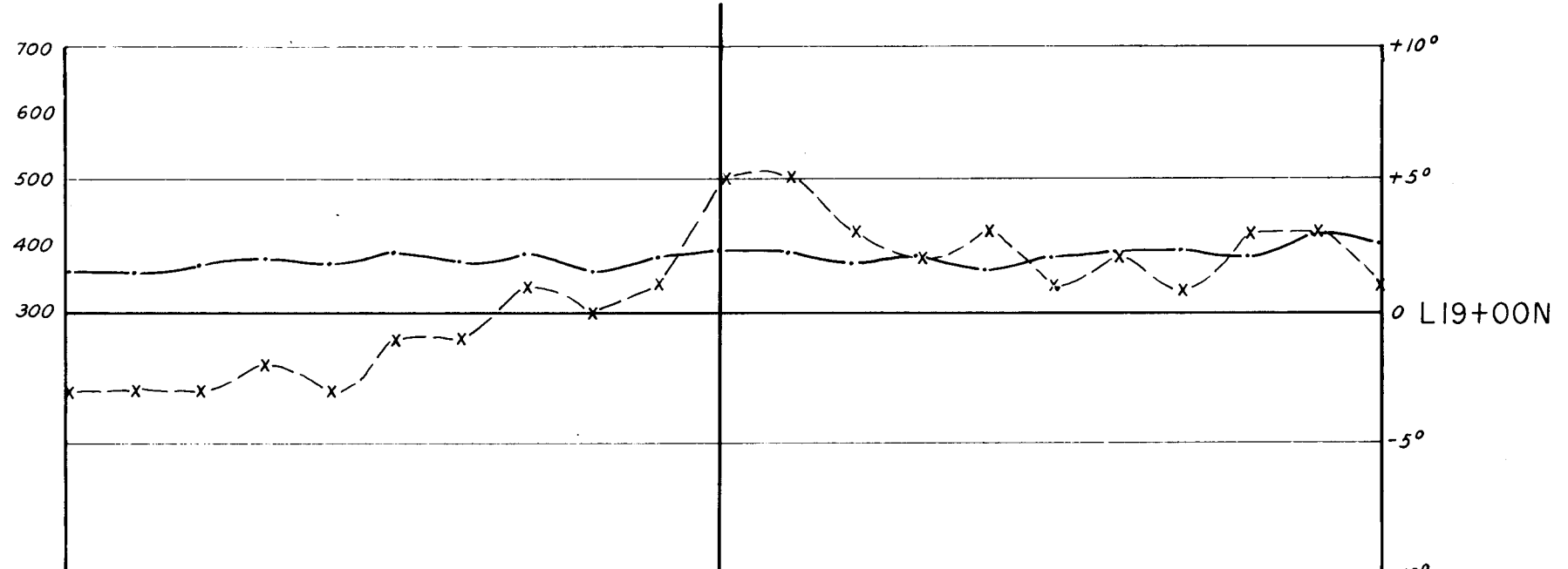
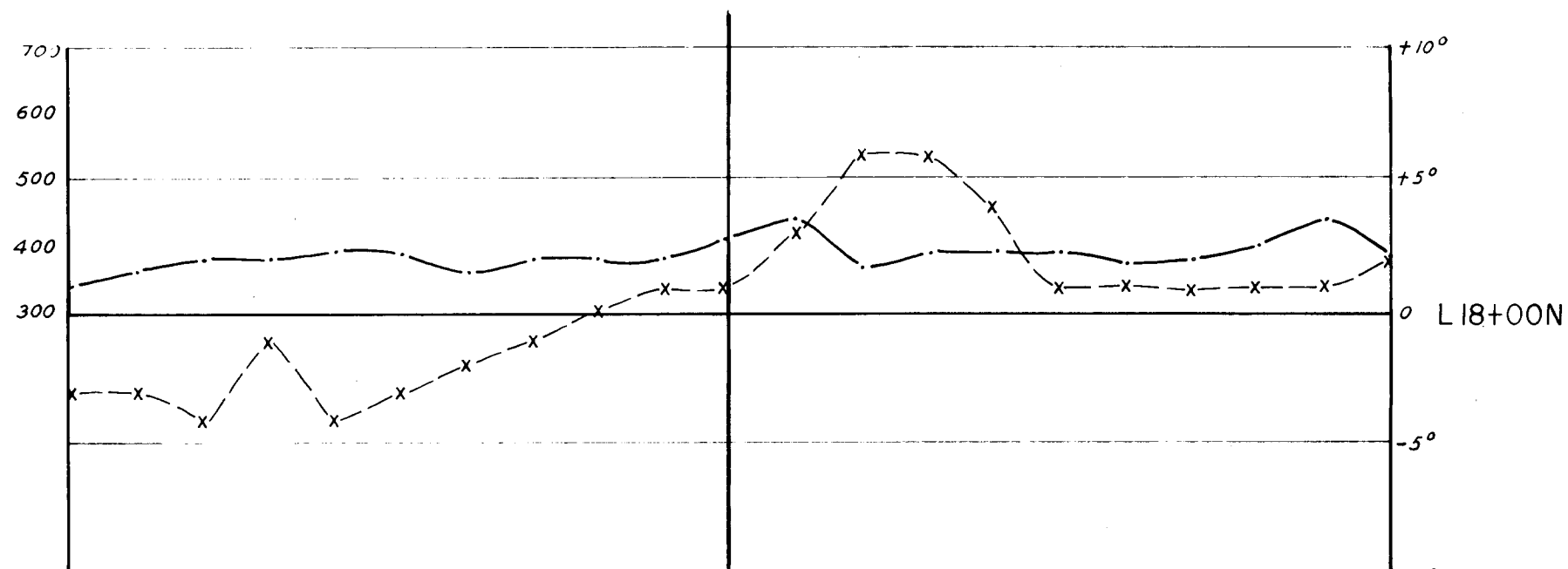
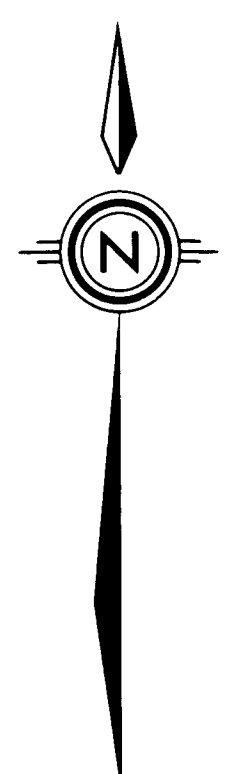
MEMBER  
CANADIAN TESTING  
ASSOCIATION

Certified by *C. P. [Signature]*



5+00W 4+00W 3+00W 2+00W 1+00W B.L.0+00 1+00E 2+00E 3+00E 4+00E 5+00E

5+00W 4+00W 3+00W 2+00W 1+00W B.L.0+00 1+00E 2+00E 3+00E 4+00E 5+00E



**LEGEND**

- F<sub>1</sub> = Dip Angle
- F<sub>2</sub> = Dip Angle
- H<sub>1</sub> = Field Strength
- H<sub>2</sub> = Field Strength
- Percent Field
- Dip Angle
- Apparent electromagnetic conductor zone

700  
600

DIRECTION OF EM-16 READINGS  
AZ. 208°

NLK (SEATTLE)

MINERAL RESOURCES LTD.  
7000 BRITISH COLUMBIA  
V6P 1S1

**9354**

FIGURE 4

NEWLINER RESOURCES LTD.

PHOENIX VL-2 SURVEY  
PROFILES

MIKE CLAIMS (852-859)

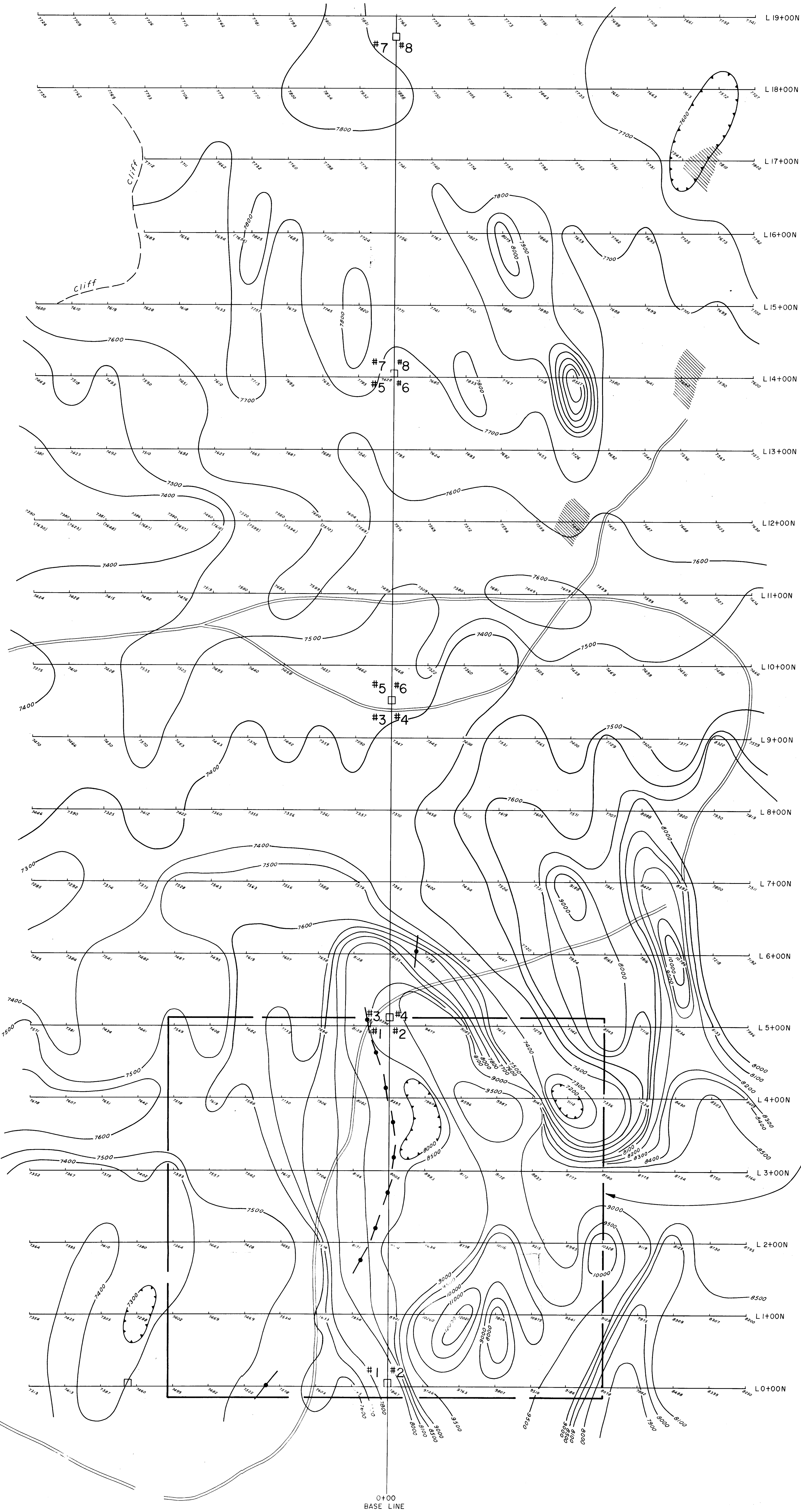
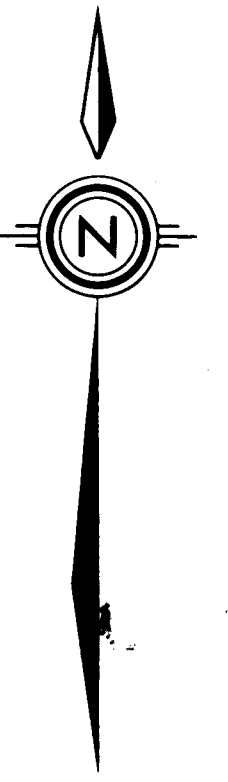
NICOLA LAKE - CLAPPERTON CREEK AREA  
NICOLA MINING DIVISION  
MERRITT, B.C.

Metres 100 0 100 200 300 400 500 Metres

DONALD W. TULLY, P.ENG. DATE: MAY 25, 1981

Note: Field Survey and Data by R.N.Wank. Period April 1-10, 1981

5+00W 4+00W 3+00W 2+00W 1+00W BL0+00 1+00E 2+00E 3+00E 4+00E 5+00E



See Figure 7 (Detail)

**LEGEND**

- CLAIM POST, CLAIM LINE
- STATION, INSTRUMENTAL READING
- STATION, GEOCHEMICAL SOIL SAMPLE RESULT COPPER - p.p.m.  
MOLYBDENUM - p.p.m.
- BUSH ROAD
- PREVIOUSLY TRENCHED AREA
- ISOMAGNETIC CONTOUR INTERVAL
- MAGNETIC "LOW"
- GEOCHEMICAL CONTOUR
- APPARENT ELECTROMAGNETIC CONDUCTOR ZONE  
(See Figures 4 and 7)

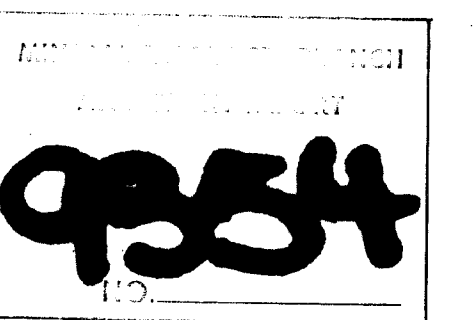


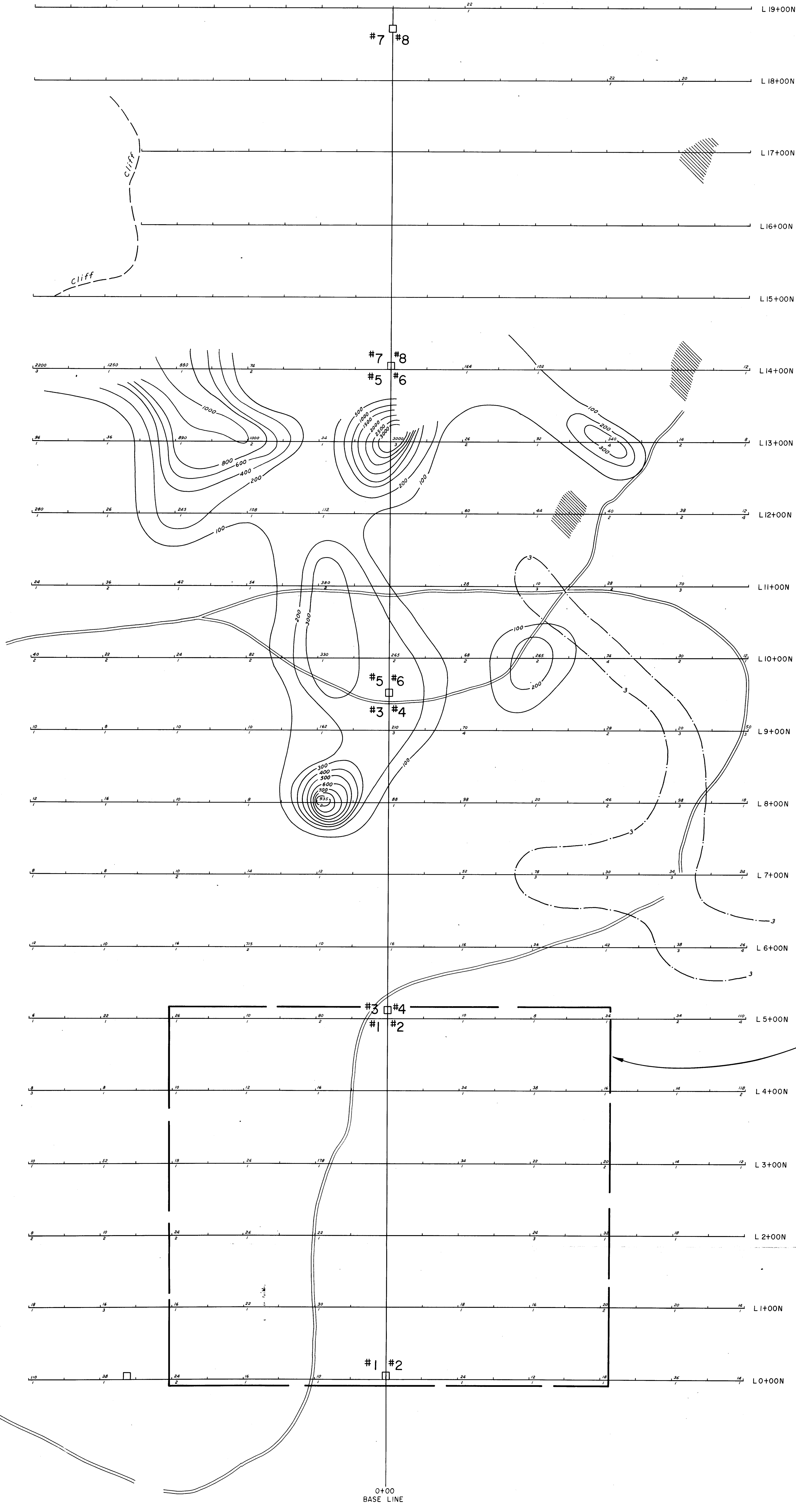
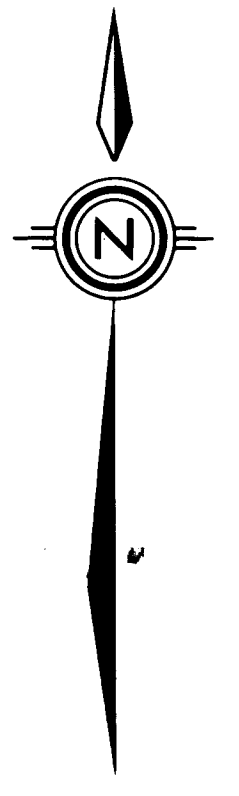
FIGURE 5

NEWLINE RESOURCES LTD.	
<b>MAGNETOMETER SURVEY</b>	
MIKE CLAIMS (852-859)	
NICOLA LAKE - CLAPPERTON CREEK AREA NICOLA MINING DIVISION MERRITT, B.C.	
METRES 50 0 50 100 150 200 250 METRES	
DONALD W. TULLY, P.ENG.	DATE: MAY 25, 1981

*Donald W. Tully*

Note: Field Survey and Data by R.N.Wank. Period April-10, 1981

5+00W 4+00W 3+00W 2+00W 1+00W B.L.0+00 1+00E 2+00E 3+00E 4+00E 5+00E



See Figure 7 (Detail)

- LEGEND**
- CLAIM POST, CLAIM LINE
  - STATION, INSTRUMENTAL READING
  - STATION, GEOCHEMICAL SOIL SAMPLE RESULT COPPER - p.p.m.  
MOLYBDENUM - p.p.m.
  - BUSH ROAD
  - PREVIOUSLY TRENCHED AREA
  - ISOMAGNETIC CONTOUR INTERVAL
  - MAGNETIC "LOW"
  - GEOCHEMICAL CONTOUR - COPPER
  - GEOCHEMICAL CONTOUR - MOLYBDENUM

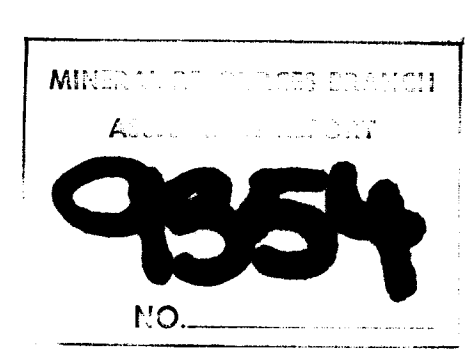
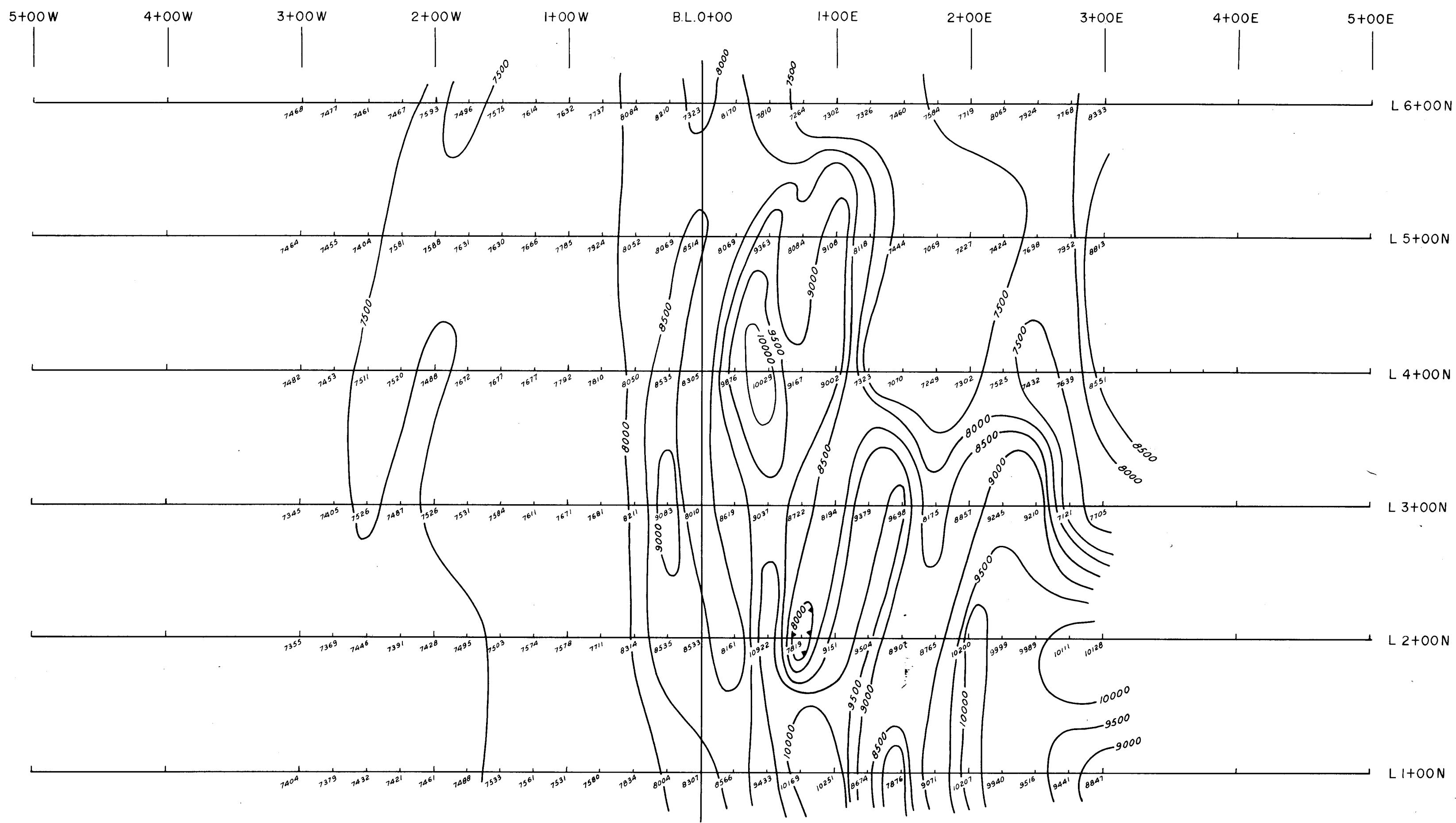


FIGURE 6

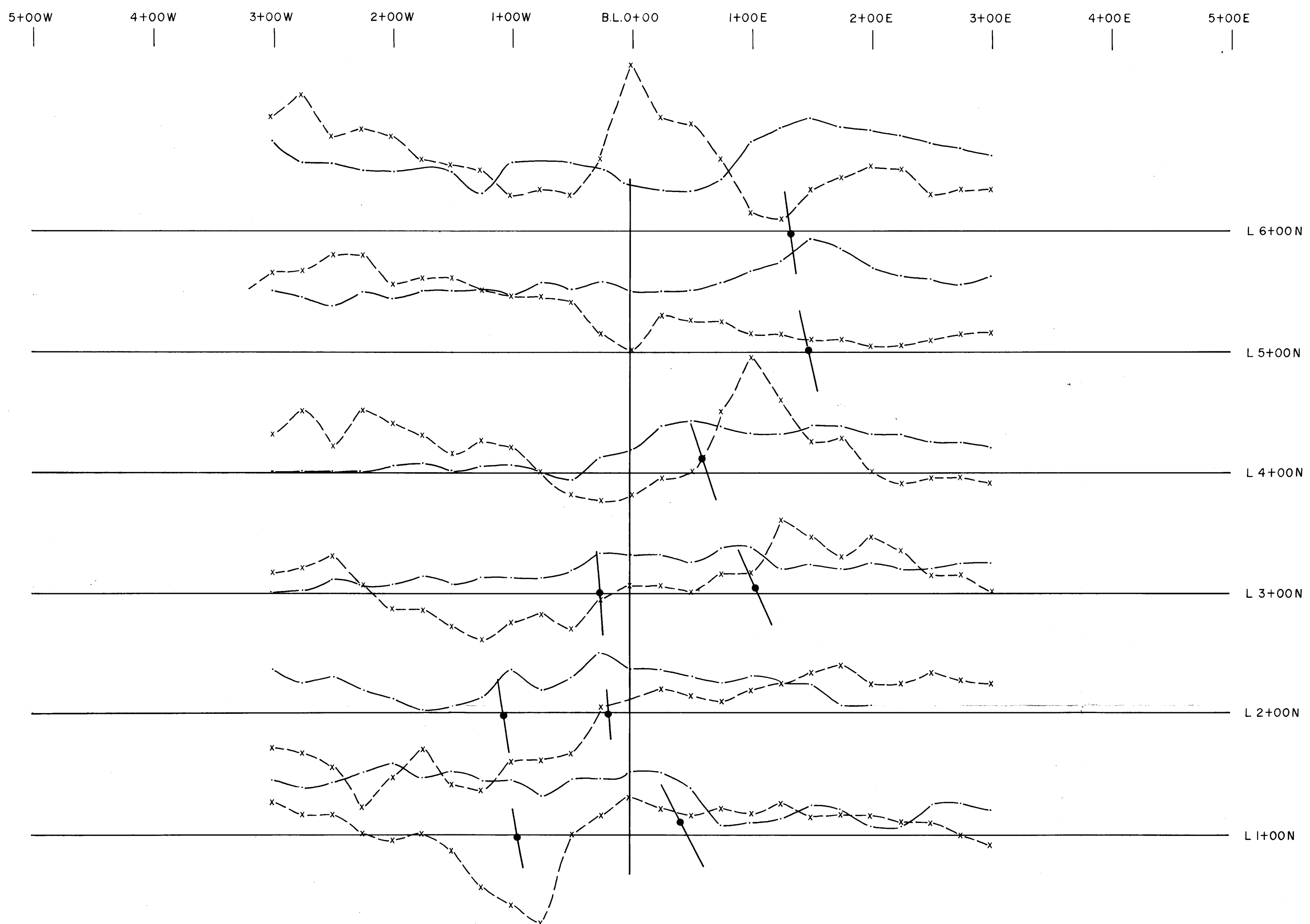
NEWLINE RESOURCES LTD.	
GEOCHEMICAL SURVEY	
MIKE CLAIMS (852-859)	
NICOLA LAKE - CLAPPERTON CREEK AREA NICOLA MINING DIVISION MERRITT, B.C.	
METRES 50	0 50 100 150 200 250 METRES
DONALD W. TULLY, P. ENG.	DATE: MAY 25, 1981





**LEGEND**  
 1610 Station, instrumental reading  
 7500 Isomagnetic contour (interval=500 gammas)  
 Magnetic "low"

**DETAIL MAGNETOMETER SURVEY**



**LEGEND**  
 F1 = Dip Angle  
 H2 = Field Strength  
 VL F = VL-2-Phoenix  
 Apparent EM conductor zone

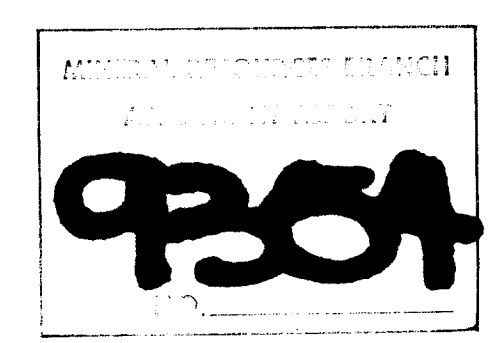
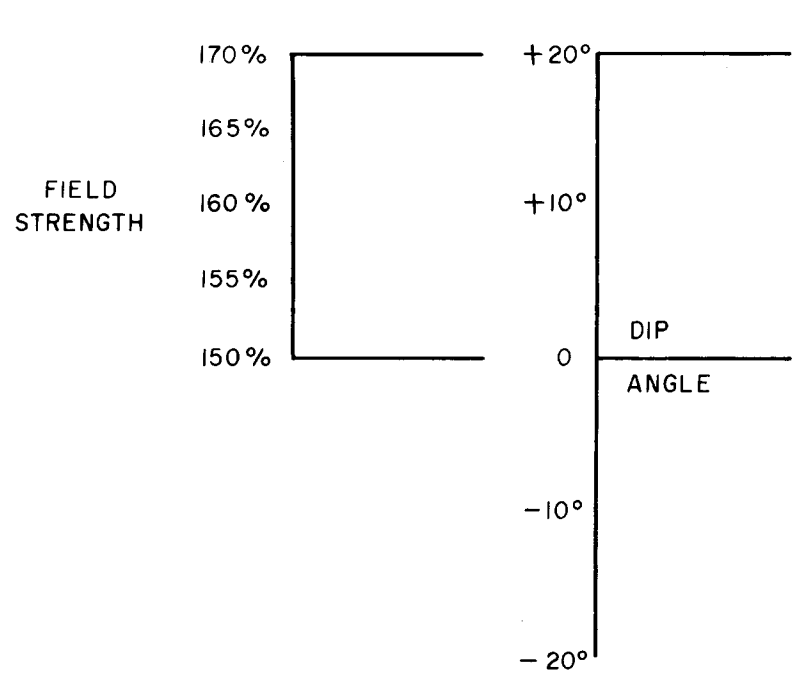


FIGURE 7



**DETAIL VL-2 (PHOENIX) SURVEY**

*Donald W. Tully*

Note: Field Survey and Data by R.N.Wank. Period April 1-10, 1981

NEWLINE RESOURCES LTD.	
DETAIL MAGNETOMETER AND VL-2 SURVEYS	
MIKE CLAIMS (852-859)	
NICOLA LAKE - CLAPPERTON CREEK AREA NICOLA MINING DIVISION MERRITT, B.C.	
METRES 50 0 50 100 150 200 250 METRES	
DONALD W. TULLY, P.ENG.	DATE: MAY 25, 1981