NORTHAIR MINES LTD.

Induced Polarization Survey

Thanksgiving Property

Revelstoke, B.C.

N.T.S. 82 M/1

AUTHOR: E. Trent Pezzot, B.Sc.,
Geophysicist

81-1243 - 10041

part 2 of 6

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

9251 Beckwith Road, Richmond, British Columbia, V6X 1V7 Telephone: (604) 273-1636

August 10, 1981

Northair Mines Ltd.
1450 - 625 Howe St.
Vancouver, B.C.
V6C 2T6

Dear Sirs:

This letter describes the results of a small induced polarization survey conducted over a portion of the Northair Mines Ltd. Thanksgiving property which contains high grade scheelite mineralization. The survey was conducted using a Huntec Mark II 2.5 KW time domain transmitter and a Huntec Mark III receiver. The system was deployed in a pole-dipole array utilizing an "a" spacing of 100 metres and n=1.

Last June a short induced polarization test survey using a low power portable system detected very strong chargeability and resistivity anomalies in the area of scheelite mineralization but due to the highly conductive nature of the ground was inadequate for larger arrays. The more powerful 2.5 KW system and the pole-dipole array used in this latest survey is better suited to survey under these ground conditions.

The data gathered during this survey is presented in contoured plan view from lines 54+00E to 47+00E as Figures 1 and 2. In addition lines 52+00E and 53+00E were surveyed with n values of 2 and 3 and the results of these vertical soundings are presented in profile form as Figures 3 and 4. The results of the initial test survey and this latest survey cannot be directly correlated due to fundamental difference between the arrays used. It is obvious however that the basic trends noted on the test survey are evident on the later survey. The strong chargeability high and resistivity low anomalies close to the S.E. near line 53+00E. The anomalies weaken to the N.W., indicating either an increased depth to or a gradational termination of the causitive body, but are still considered open to the west of line 47+00E.

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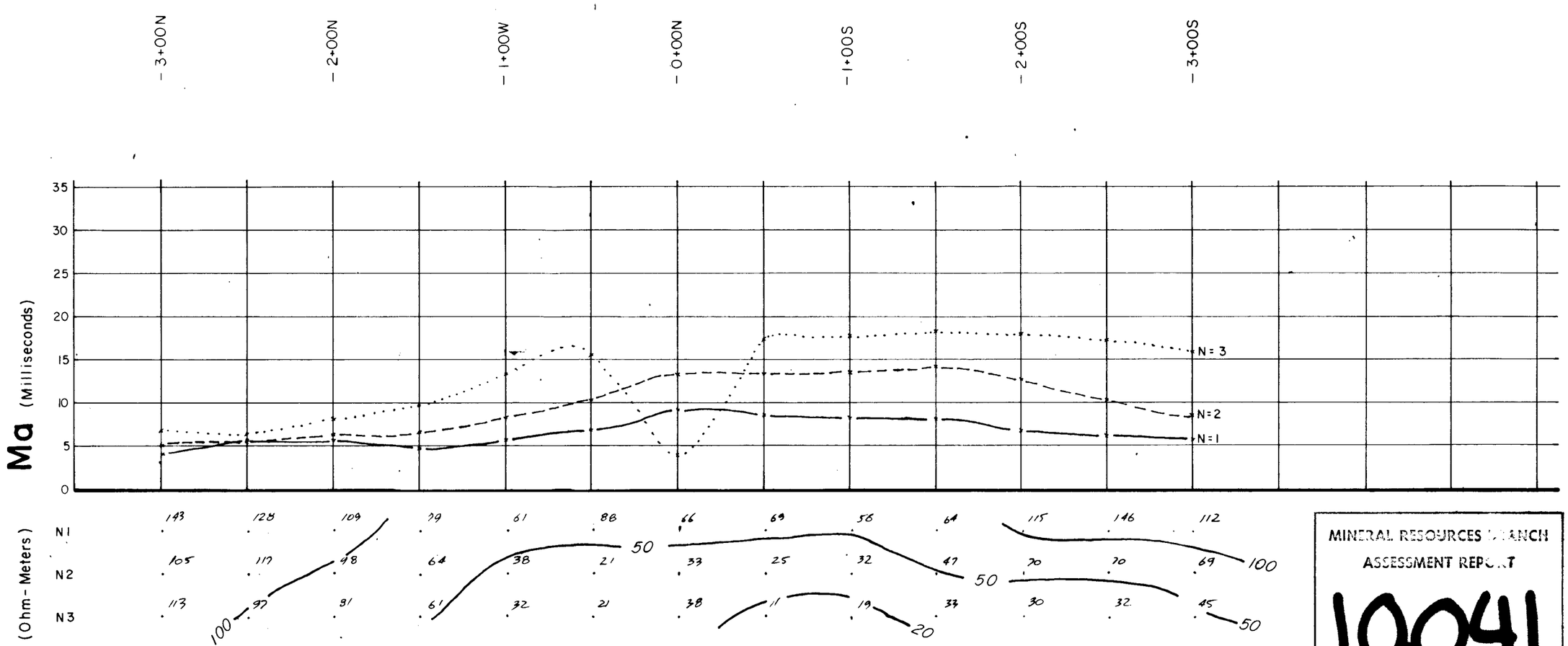
As stated in the report on the initial test survey the induced polarization trends are believed to be reflecting a graphitic/argillaceous horizon. The scheelite showings appear to be associated with chargeability highs however this may be coincidence. The induced polarization method is capable of accurately locating and delineating the graphitic/argillaceous horizon and if a genetic or structural relationship between it and the scheelite can be established this geophysical method could provide valuable assistance for this exploration play.

Yours truly,

E. Trent Pezzot, B.Sc.,
Geophysicist

ETP/sf



Part 2 of 6

50m 25m 0 50m 100m 150m
1:2500

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INSTRUMENT HUNTEC 2.5 KW TIME DOMAIN
(a = 100 m)

C2 ← I — V
C1 Pole P2 Dipole P1

NORTHAIR MINES LTD.
THANKSGIVING PROPERTY
REVELSTOKE MINING DIVISION - BRITISH COLUMBIA

INDUCED POLARIZATION PROFILE
— LINE 53+00E —

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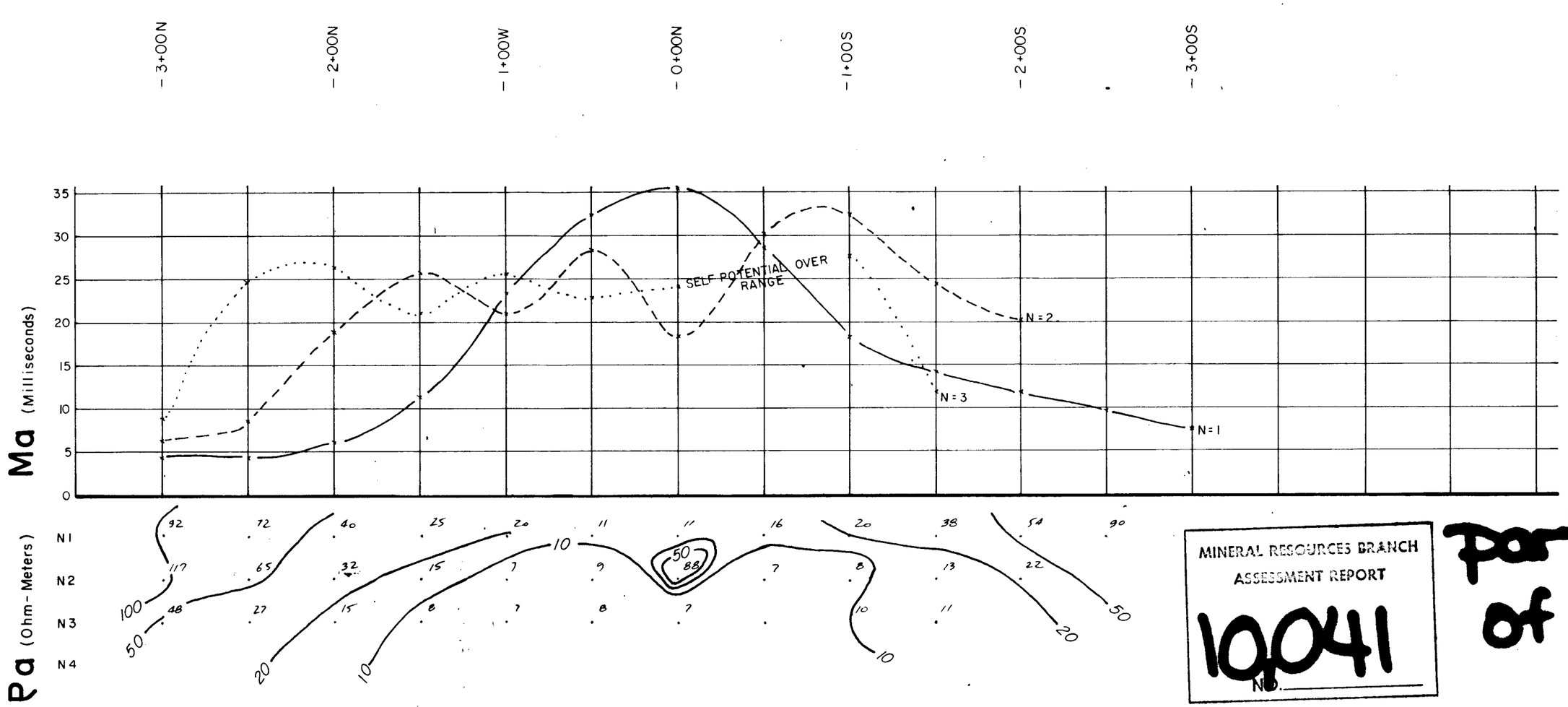
INTERPRETED BY	E.T.P.
DRAWN BY	N.L.P.
CHECKED BY	E.T.P.
DATE	AUG. / 81
FIG. NO.	3

To Accompany Geophysical Report on
Thanksgiving Property
Date Aug. / 81
By GLEN E. WHITE B.Sc. GEOPHYSICIST

Glen E. White geophysical consulting services ltd.



Part 2 of 6

50m 25m 0 50m 100m 150m
1:2500

N.T.S. 82 M/1

INSTRUMENT HUNTEC 2.5 KW TIME DOMAIN
(a = 100 m)

C2 ← I — V
C1 Pole P2 Dipole P1

NORTHAIR MINES LTD.
THANKSGIVING PROPERTY
REVELSTOKE MINING DIVISION - BRITISH COLUMBIA

INDUCED POLARIZATION PROFILE
— LINE 52+00E —

Glen E. White geophysical consulting & services ltd.

INTERPRETED BY	E.T.P.
DRAWN BY	N.L.P.
CHECKED BY	E.T.P.
DATE	AUG. / 81
FIG. NO.	4

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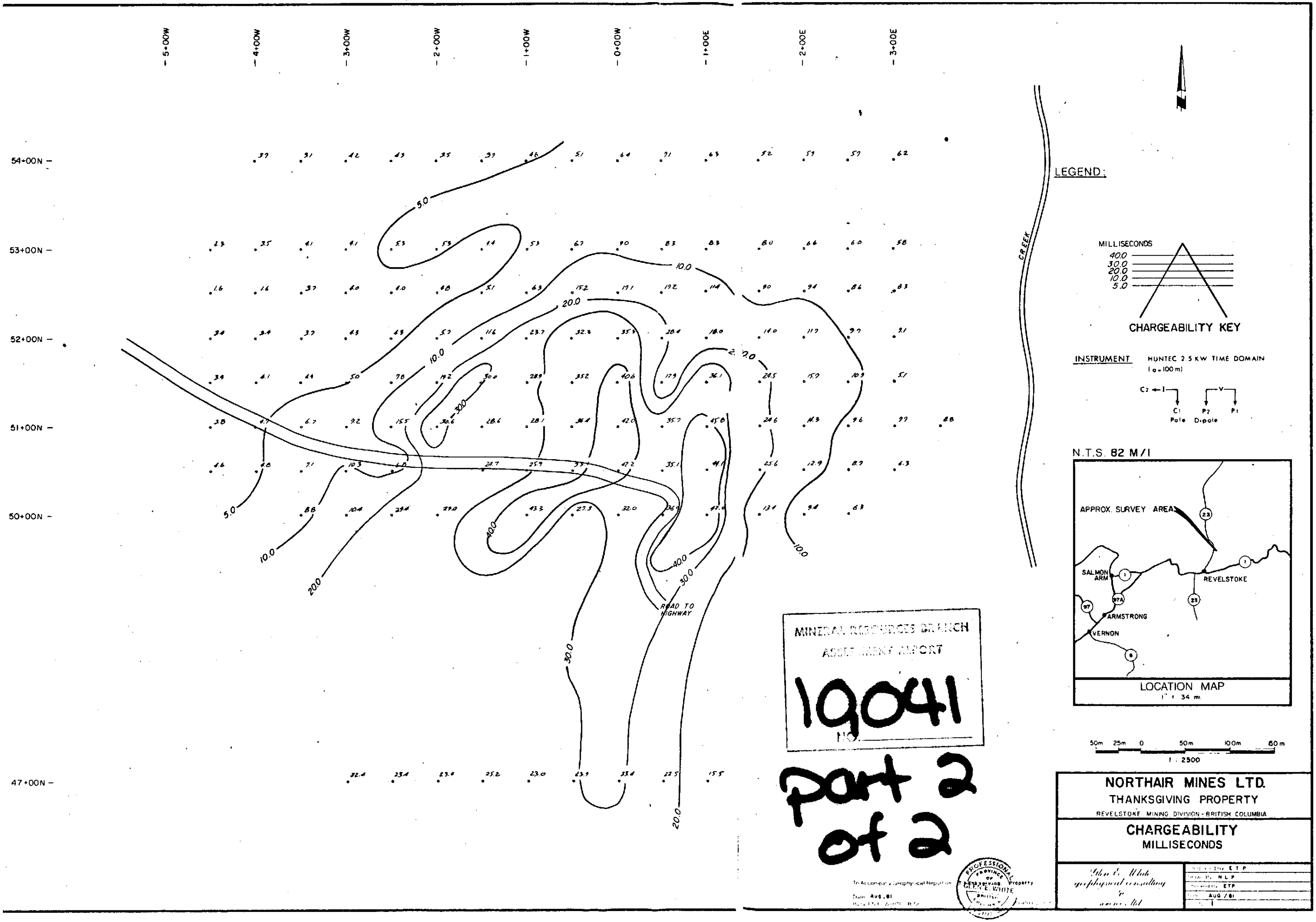
Thanksgiving Property
Date Aug. / 81
By GLEN E. WHITE - B.Sc. ..... GEOPHYSICIST

STATEMENT OF COSTS, IP SURVEY

	No. of Units	Unit Cost	Total
A. CONTRACT IP			$ 9,116.59
B. FIELD LABOUR			
R. Duncan July 9,10,11,13,to 18th inc	9	55.13	496.15
B. Buckland July 9,10	2	43.15	86.30
D. Rusch July 11,13th to 18th inc.	7	55.13	368.21
B. Lang June 18,19	2	73.15	146.30
D. Rusch June 18,19	2	55.13	110.26
R. Wares June 18,19	2	132.15	264.30
R & B Costs, Field Labour	24	52.02	1,248.50
R & B Costs, Contract Crew			654.75
		TOTAL	$12,451.36

Part 2 of 6


- 5+00W
- 4+00W
- 3+00W
- 2+00W
- 1+00W
- 0+00W
- 1+00E
- 2+00E
- 3+00E
54+00N
53+00N
52+00N
51+00N
50+00N
47+00N
CREEK
ROAD TO HIGHWAY
LEGEND:
MILLISECONDS
40.0
30.0
20.0
10.0
5.0
CHARGEABILITY KEY
INSTRUMENT
HUNTEC 2.5 KW TIME DOMAIN
Pole
Dipole
N.T.S. 82 M/1
APPROX. SURVEY AREA
SALMON ARM
REVELSTOKE
ARMSTRONG
VERNON
LOCATION MAP
1 : 2500
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
19041
NO.
part 2 of 2
NORTHAIR MINES LTD.
THANKSGIVING PROPERTY
REVELSTOKE MINING DIVISION - BRITISH COLUMBIA
CHARGEABILITY
MILLISECONDS
AUG / 81

LEGEND:

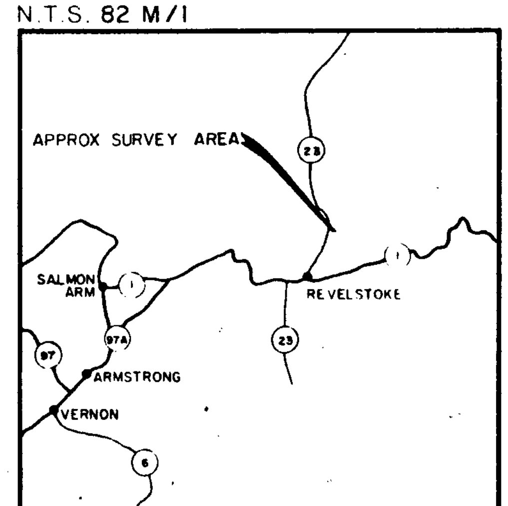
OHM-METERS
200
100
50
20
10
5

RESISTIVITY KEY

INSTRUMENT HUNTEC 2.5 KW TIME DOMAIN (a = 100 m)

C2 ←I— C1 Pole —V— P2 P1 Dipole

N.T.S. 82 M/1



LOCATION MAP
1" = 34 mi

50m 25m 0 50m 100m 150m
1 : 2500

part 2 of [redacted] 6

To Accompany Geophysical Report Thanksgiving Property
Date Aug, 81

GLEN E. WHITE
PROVINCE OF BRITISH COLUMBIA

NORTHAIR MINES LTD.
THANKSGIVING PROPERTY
REVELSTOKE MINING DIVISION - BRITISH COLUMBIA

RESISTIVITY
-OHM-METERS-

Glen E. White geophysical consulting & services ltd

Compiled By	E T P
Drawn By	N L P
Revised By	ETP
Date	AUG / 81
	2