

92H/4W
REPORT ON TAN GROUP

Tan, So

NTS 92H/4W

Latitude 49°01'N

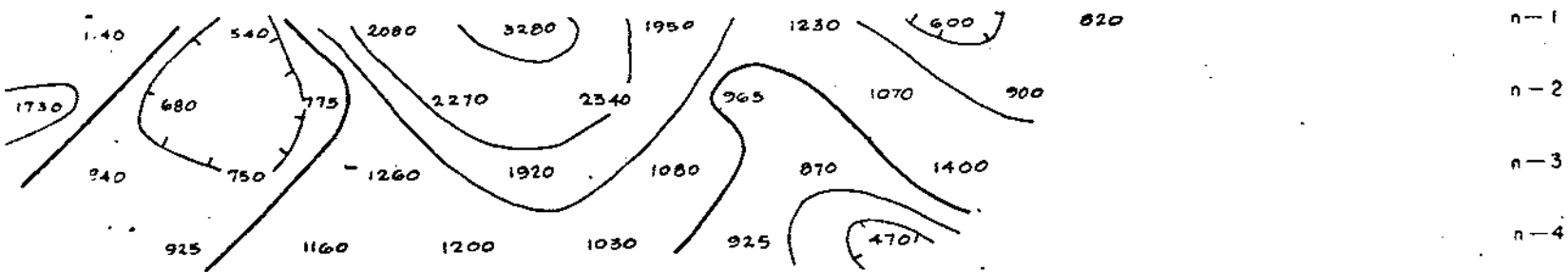
Longitude 121°48'W

4990
0667

6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N

Weak, Broad

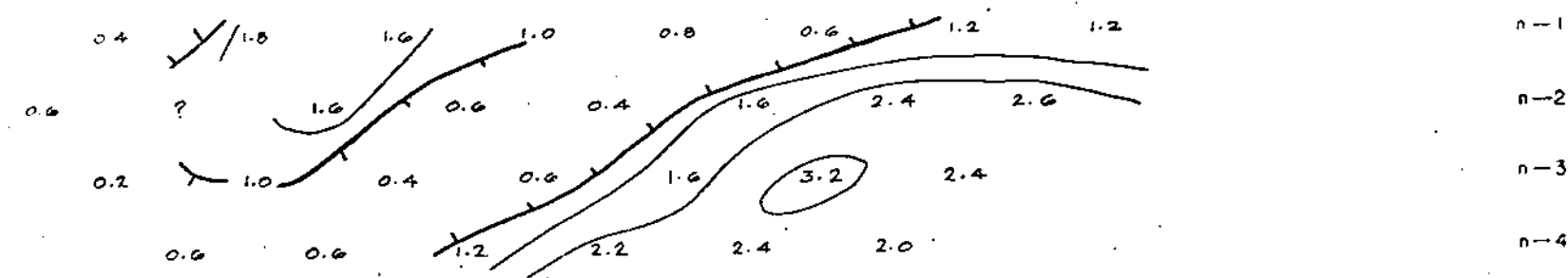
Resistivity (app) in Ohm Feet / 2π



6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N

Weak, Broad

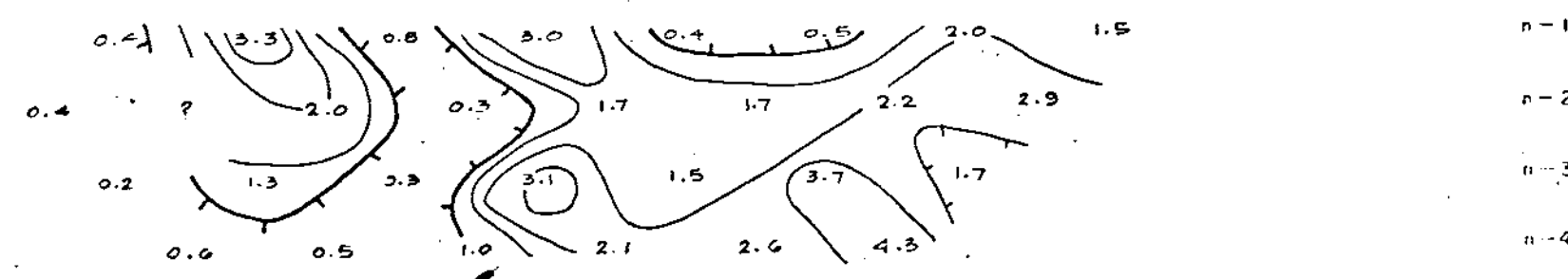
Frequency Effect (app) in %



6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N

Weak, Broad

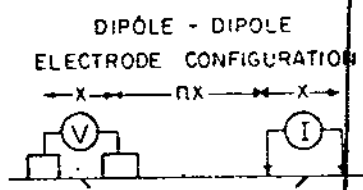
Metal Factor (app)



COMINCO LTD.
TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

GRID NO. 1
LINE NO. 32 W



PLOTTING X POINT
n = 1, 2, 3, & 4

SURFACE PROJECTION
OF ANOMALOUS ZONES
DEFINITE [Solid line]
PROBABLE [Dashed line]
POSSIBLE [Wavy line]

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4990 MAP

FREQUENCIES 0.31 & 5.0 cps DATE SURVEYED JULY, 1973

APPROVED _____

NOTE: CONTOURS AT
LOGARITHMIC INTERVALS
1-1.5-2-3-5-7.5-10

DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO EXPLORATION DIVISION

COMINCO LTD. TAN PROPERTY

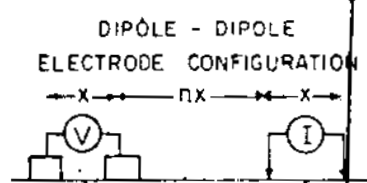
CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

Department of
Mines and Petroleum Resources

ANNUAL REPORT

NO. 4990 MAP

GRID NO. 1
LINE NO. 32 W



PLOTTING X POINT
n = 1, 2, 3, & 4

SURFACE PROJECTION
OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

FREQUENCIES 0.31 & 5.0 cps DATE SURVEYED JULY, 1973

APPROVED _____

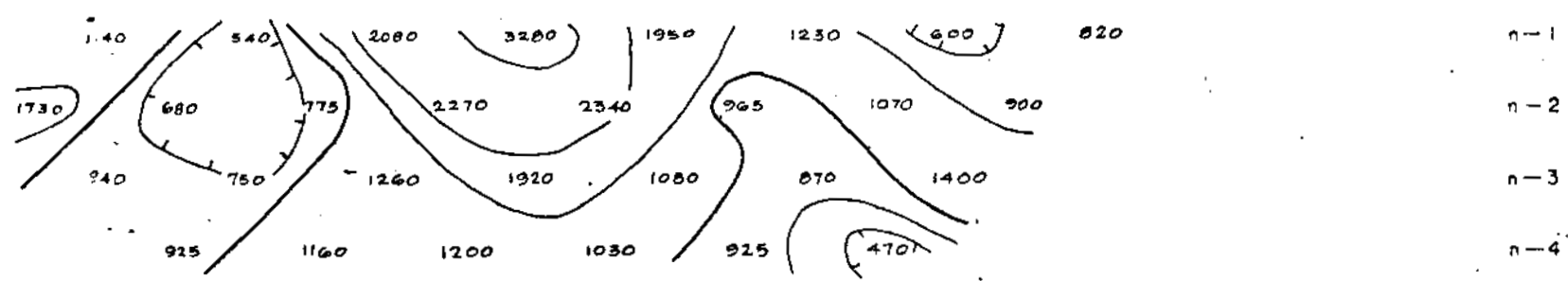
NOTE: CONTOURS AT
LOGARITHMIC INTERVALS
1-1.5-2-3-5-7.5-10

DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO EXPLORATION DIVISION

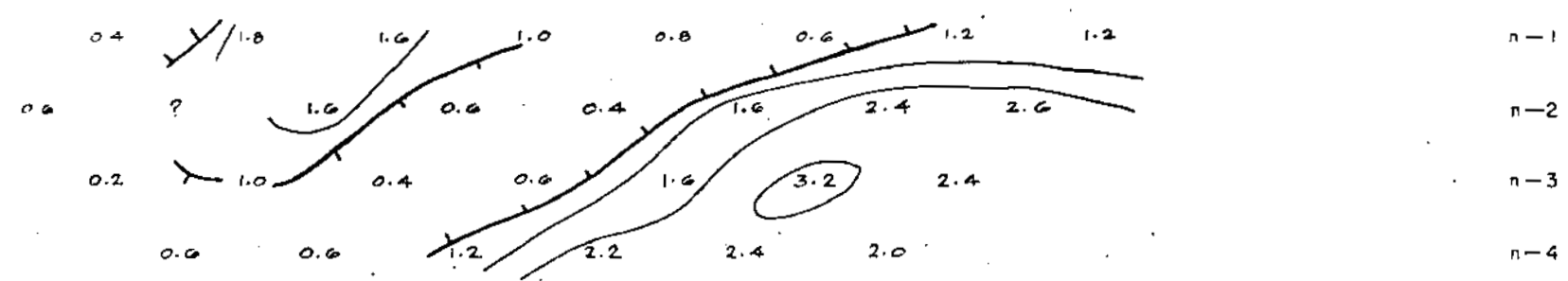
6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N

Weak, Broad Resistivity (app) in Ohm Feet / 2π



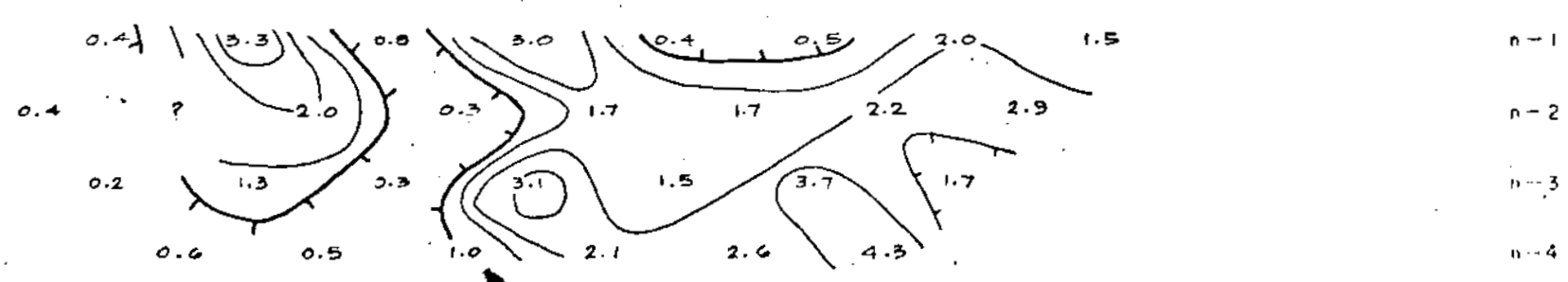
6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N

Weak, Broad Frequency Effect (app) in %



6S 5S 4S 3S 2S 1S 0 1N 2N 3N 4N

Weak, Broad Metal Factor (app)

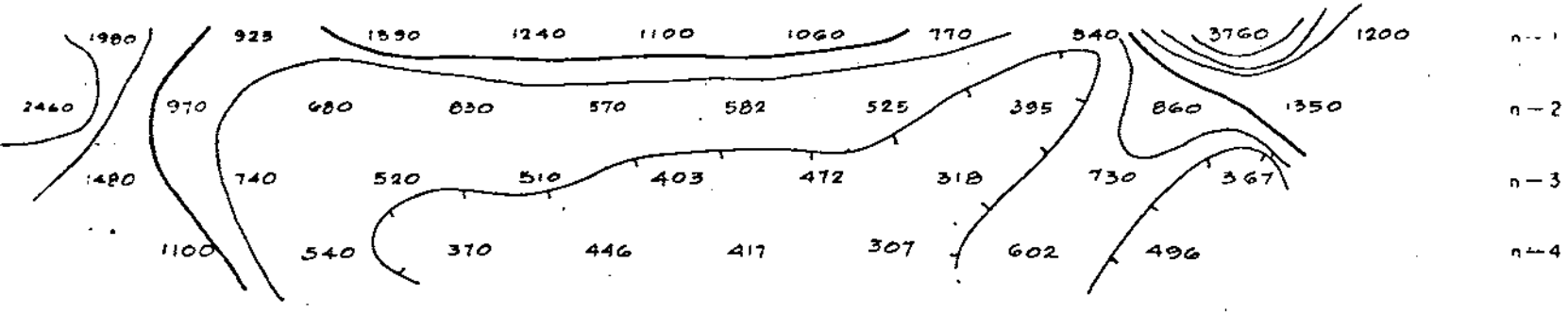


COMINCO LTD. TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

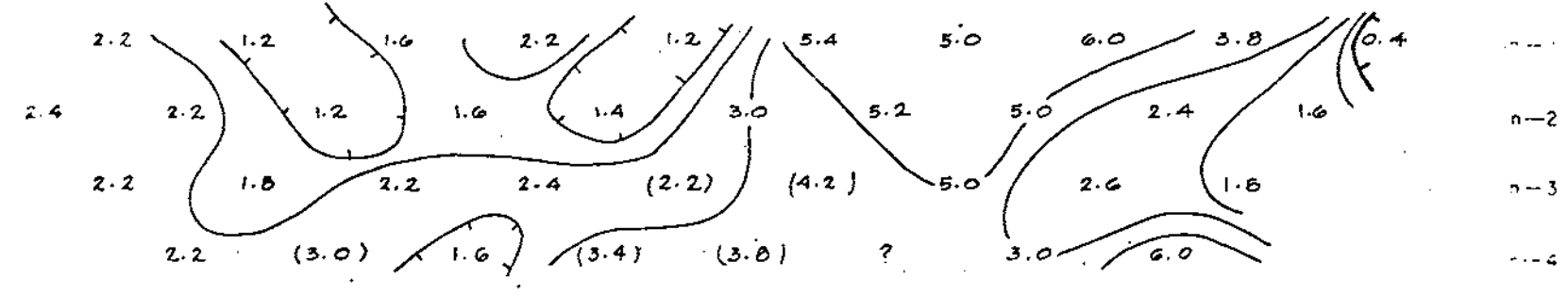
5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N

Quite Strong, Shallow Resistivity (app) in Ohm Feet / 2π



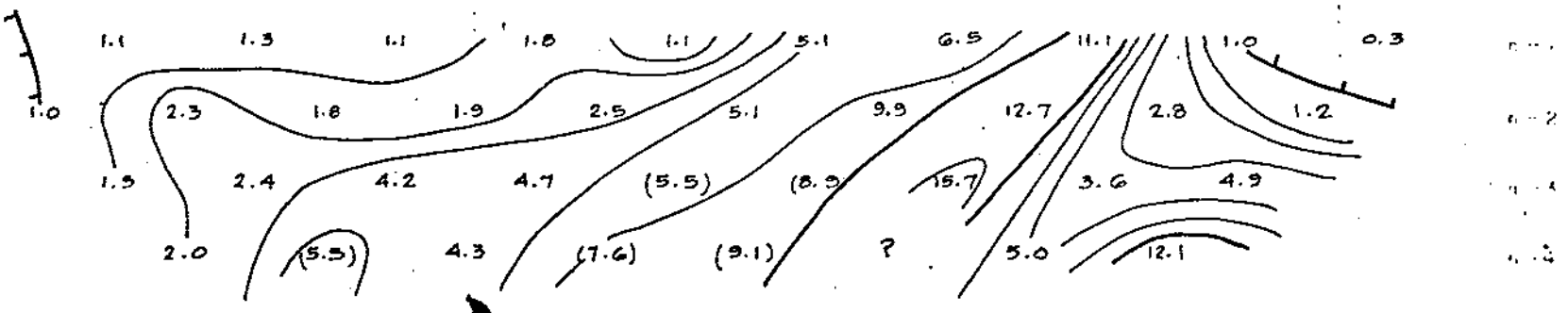
5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N

Quite Strong, Shallow Frequency Effect (app) in %

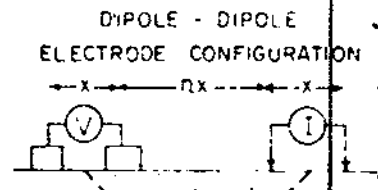


5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N

Quite Strong, Shallow Metal Factor (app)



GRID NO. 2
LINE NO. 4 E



PLOTTING POINT
at 1, 2, 3, & 4

SURFACE PROJECTION
OF ANOMALOUS LINES

DEFINITE

PROBABLE

POSSIBLE

Department of
Mines and Technical Resources
ASSESSMENT REPORT
NO. 4990 MAP

FREQUENCIES 0.31 5.0 cps DATE SURVEYED JULY, 1973

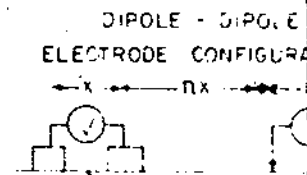
NOTE CONTOURS AT
LOGARITHMIC INTERVALS
1-15 2-5 5-75-10

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

COMINCO LTD. TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D.

GRID NO. 2
LINE NO. 8 E



PLOTTING POINT
of 1, 2, 3, 8, 4

SURFACE PROJECTION
OF ANOMALIES

EFFINITE

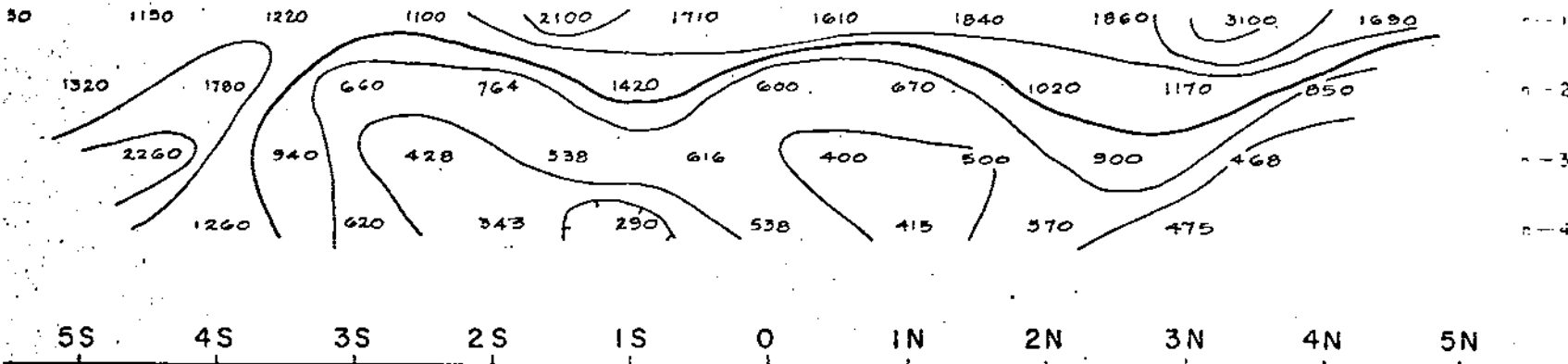
PROBABLE

POSSIBLE

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4990 MAP

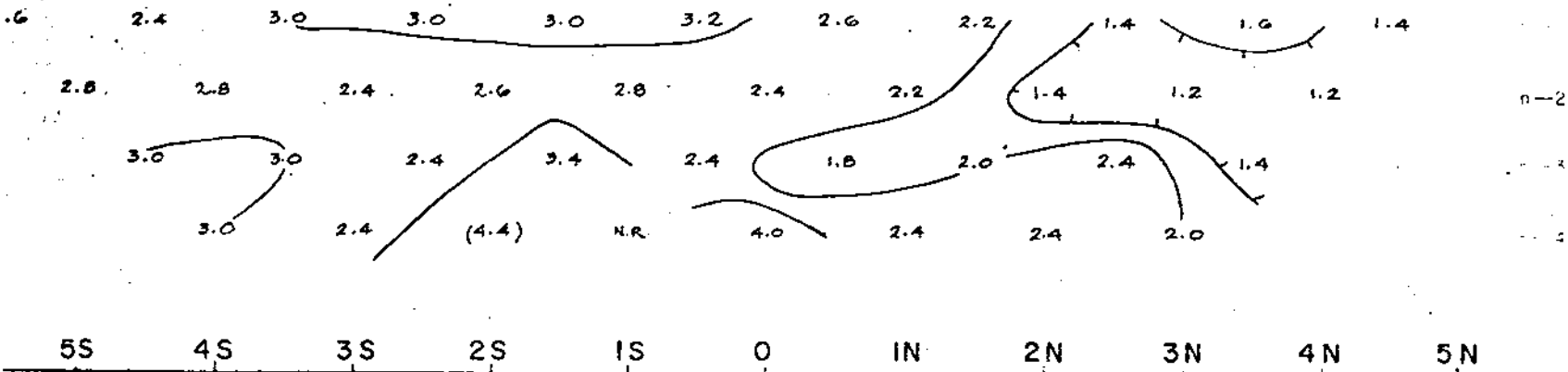
Broad, Deep

Resistivity (app) in Ohm Feet / 2 ft



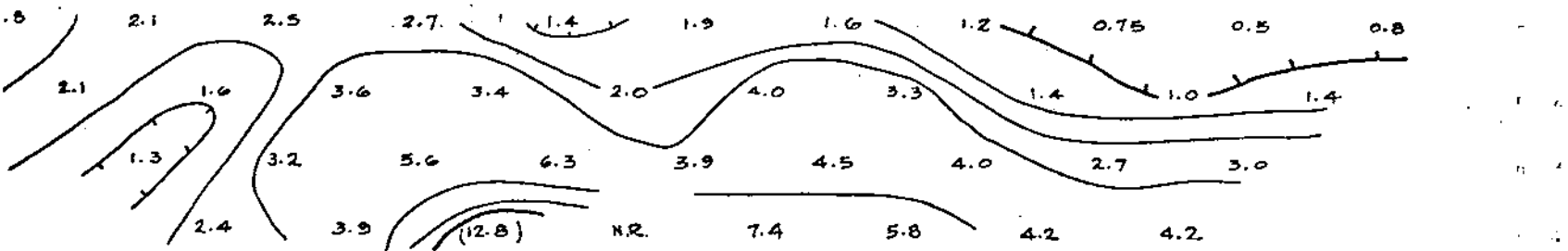
Broad, Deep

Frequency Effect (app) in %



Broad, Deep

Metal Factor (app)



FREQUENCY 2.5 HZ. DATE SURVEYED JULY, 1973

NOTE: CONTOUR AT
QUARTERLY INTERVALS
DATE: 1973.07.10

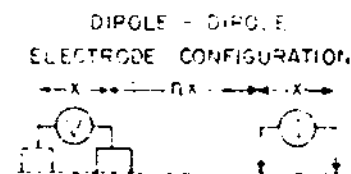
INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COM LTD. EXPLORATION DIVISION

COMINCO LTD.
TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
No 4990 MAP

GRID NO. 2
LINE NO. 12 E



PLOTTING POINTS
1, 2, 3, & 4

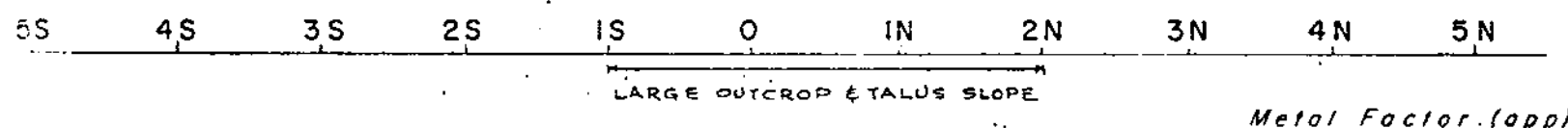
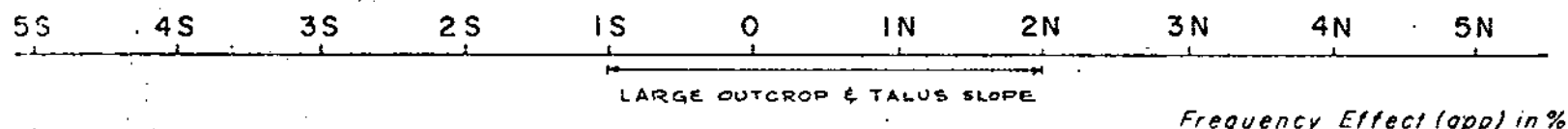
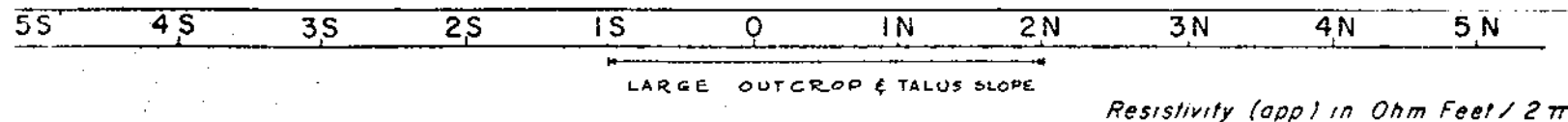
SURFACE PROJECTION
OF ANOMALOUS AREAS

DEFINITE
PROBABLE
POSSIBLE

PREPARED BY: [Name] DATE: [Date] JULY, 1973

NOTE: [Text]
LOGARITHMIC INTERVALS
DATE

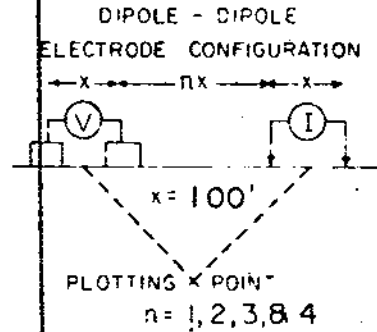
INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD. EXPLORATION DIVISION



COMINCO LTD. TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

GRID NO. 2
LINE NO. 16 E



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO **4990**
MAP

FREQUENCIES 1, 5, 15, 30, 60, 100, 300, 600, 1000, 3000, 6000 Hz DATE SURVEYED JULY, 1973

APPROVED _____

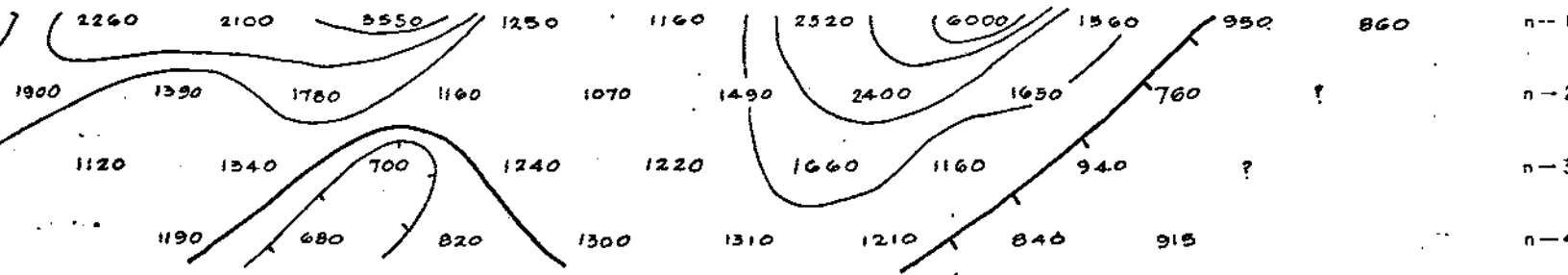
DATE OF PLOT OF LOGARITHMIC INTERVALS

DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

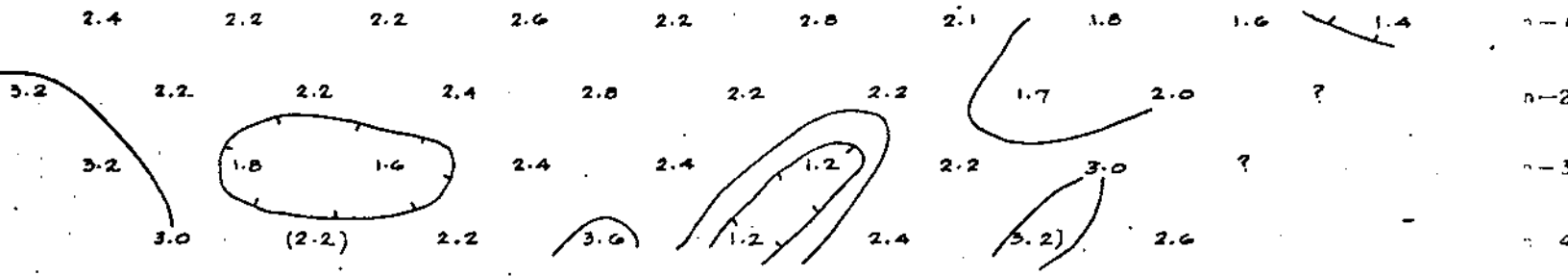
5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N

Resistivity (app) in Ohm Feet / 2π



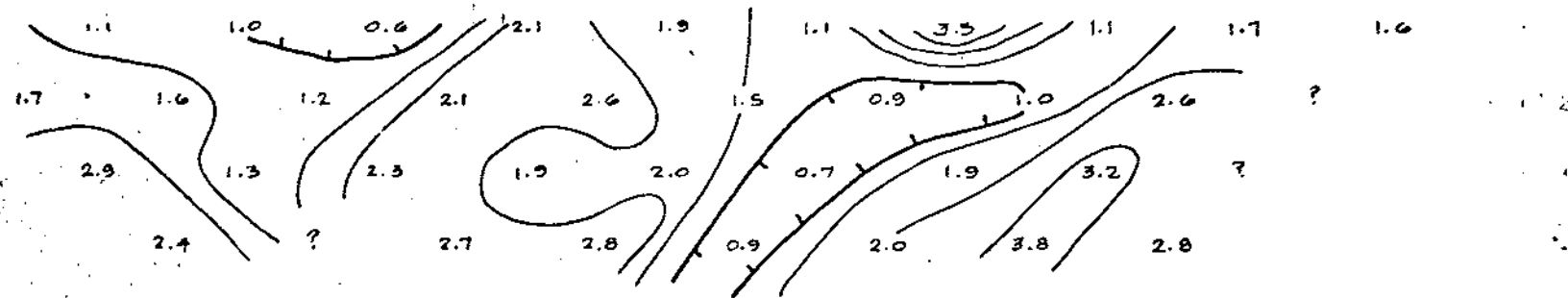
5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N

Frequency Effect (app) in %



5S 4S 3S 2S 1S 0 1N 2N 3N 4N 5N

Metal Factor (app)



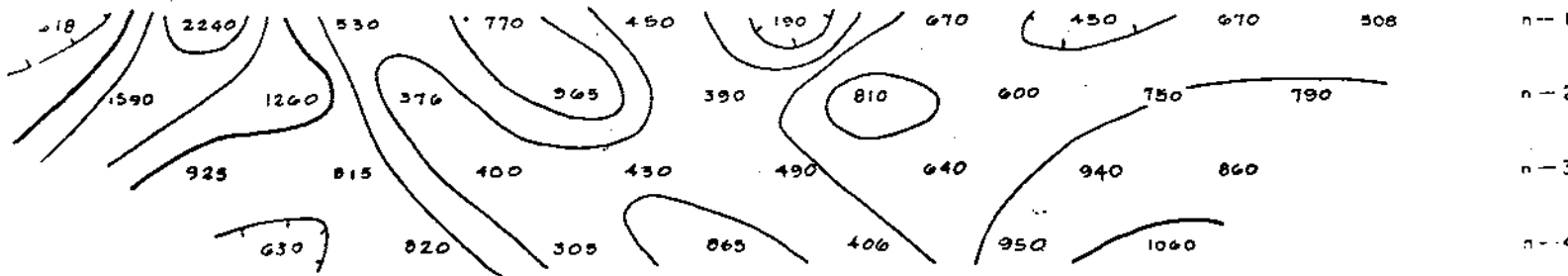
COMINCO LTD. TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

8S 7S 6S 5S 4S 3S 2S 1S 0 IN

Resistivity (app) in Ohm Feet / 2π
Broad, Weak

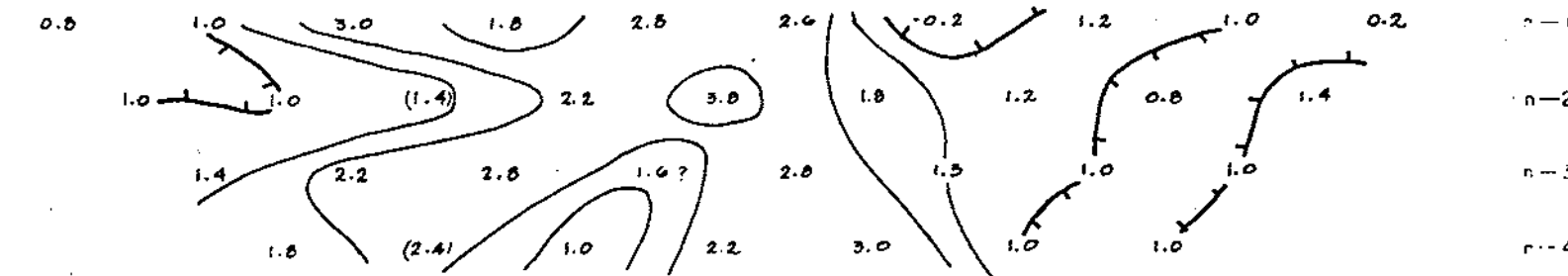
Resistivity (app) in Ohm Feet / 2π



8S 7S 6S 5S 4S 3S 2S 1S 0 IN

Frequency Effect (app) in %
Broad, Weak

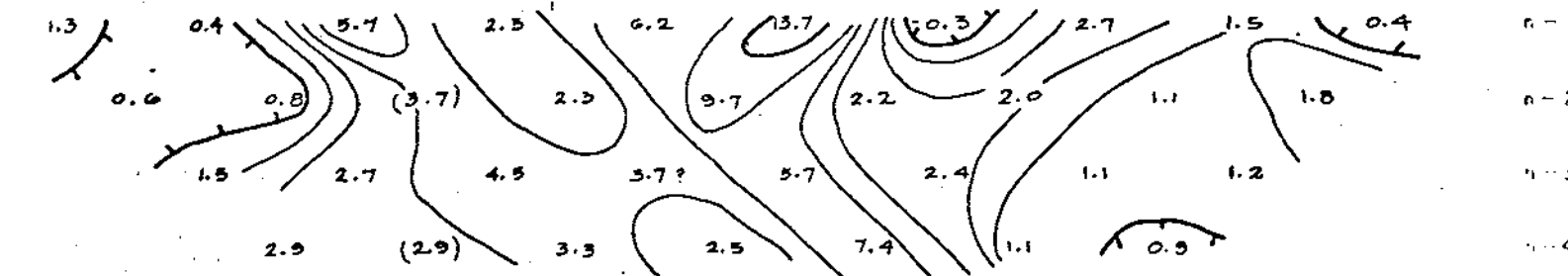
Frequency Effect (app) in %



8S 7S 6S 5S 4S 3S 2S 1S 0 IN

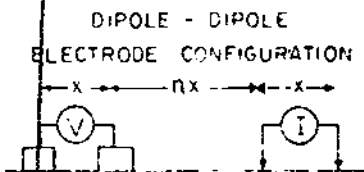
Metal Factor (app)
Broad, Weak

Metal Factor (app)



GRID NO. 3
LINE NO. 0

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 No. 4990
 MAP



x = 100'
PLOTting X POINT
n = 1, 2, 3, & 4

SURFACE PROJECTION
OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

FREQUENCIES 0.31 & 5.0 cps DATE SURVEYED JULY, 1973

APPROVED _____

NOTE CONTOURS AT LOGARITHMIC INTERVALS
1-15 2-31 5-75-10
DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LT EXPLORATION DIVISION

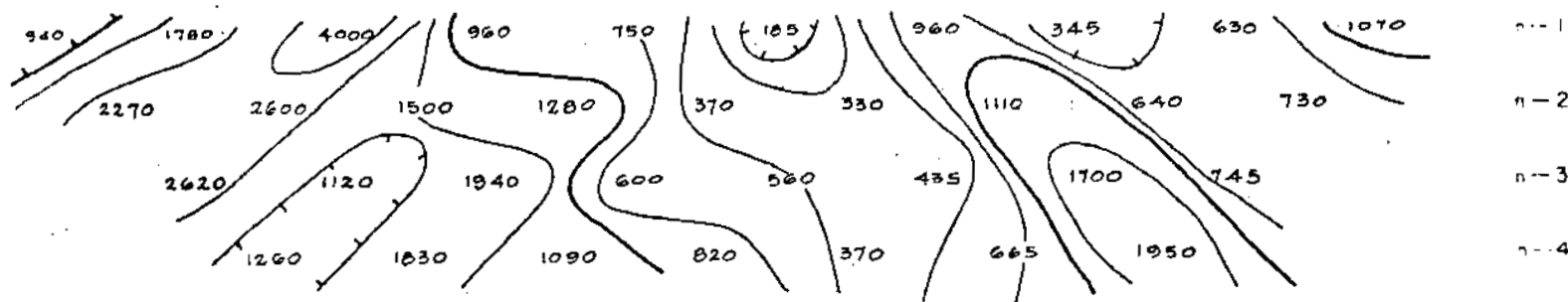
GRID NO. 3

COMINCO LTD.

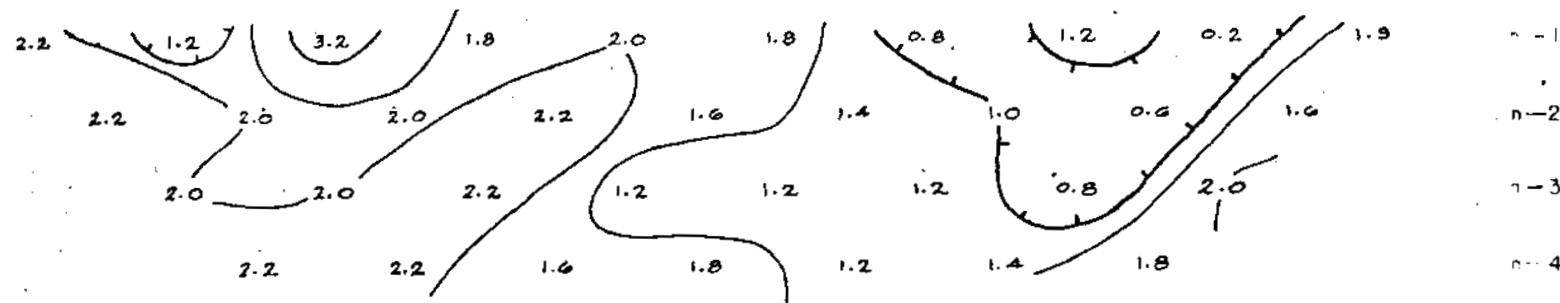
TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

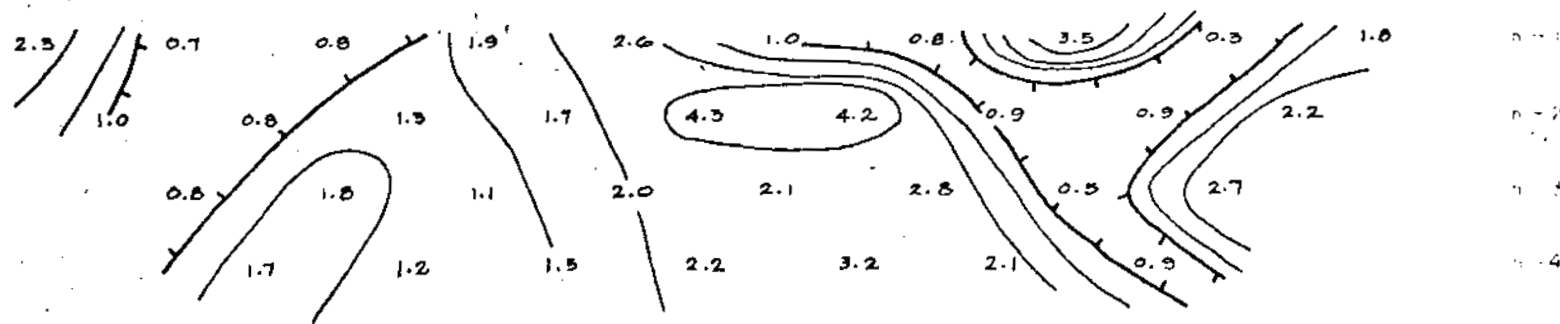
Resistivity (app) in Ohm Feet / 2π



Frequency Effect (app) in %

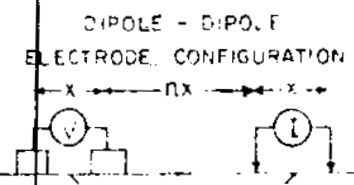


Metal Factor (app)



GRID NO. 3
LINE NO. 12 E

NO 4990 MAP
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 Department of



DIPOLE - DIPOLE
 ELECTRODE CONFIGURATION
 $x = 100'$
 PLOTTING X POINT
 $n = 1, 2, 3, 8, 4$
 SURFACE PROJECTION
 OF ANOMALOUS ZONES
 DEFINITE
 PROBABLE
 POSSIBLE

FREQUENCIES 0.318 & 5.0 cps DATE SURVEYED JULY, 1973

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1-1.5 2-3 5-7.5-10 APPROVED _____ DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

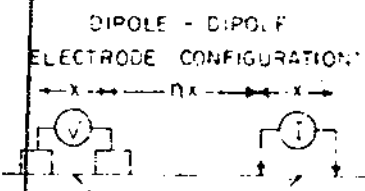
COMINCO LTD.

TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

GRID NO. 4

LINE NO. 8 E



PLOTTING X POINT
n = 1, 2, 3, 8, 4

SURFACE PROJECTION
OF ANOMALOUS ZONES

DEFINITE

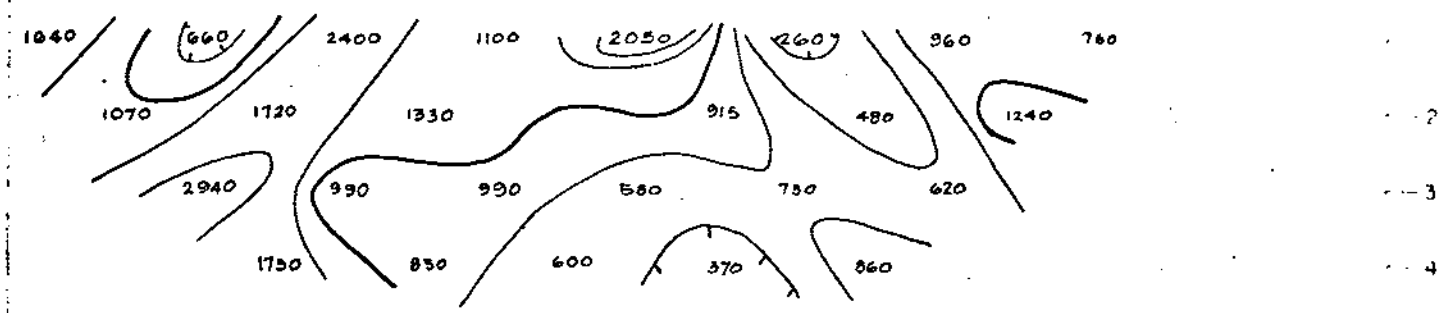
PROBABLE

POSSIBLE

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 4990
 MAP

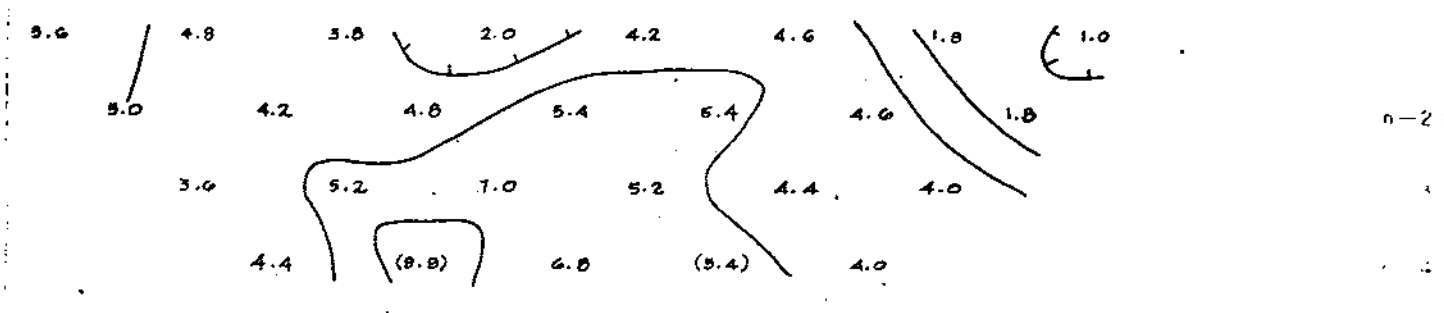
8S 7S 6S 5S 4S 3S 2S 1S 0

Broad, Strong, Moderate Depth Resistivity (app) in Ohm Feet / 2π



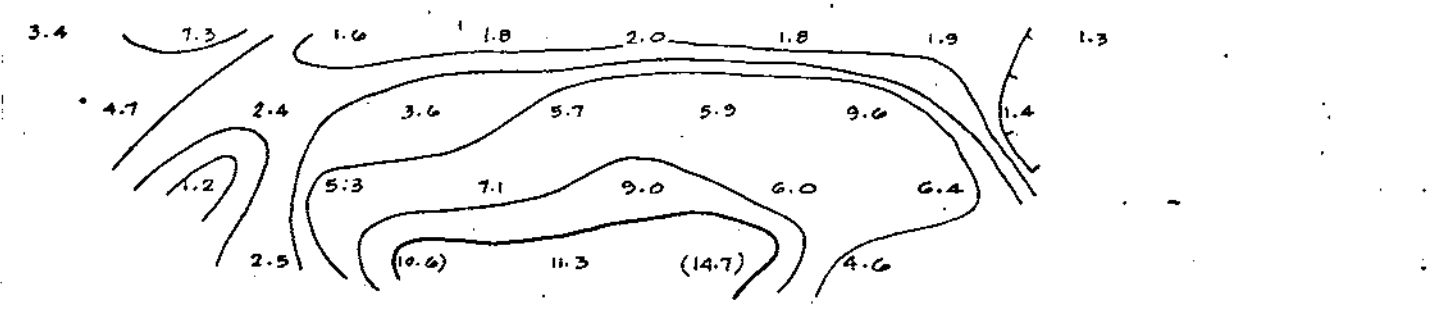
8S 7S 6S 5S 4S 3S 2S 1S 0

Broad, Strong, Moderate Depth Frequency Effect (app) in %



8S 7S 6S 5S 4S 3S 2S 1S 0

Broad, Strong, Moderate Depth Metal Factor (app)



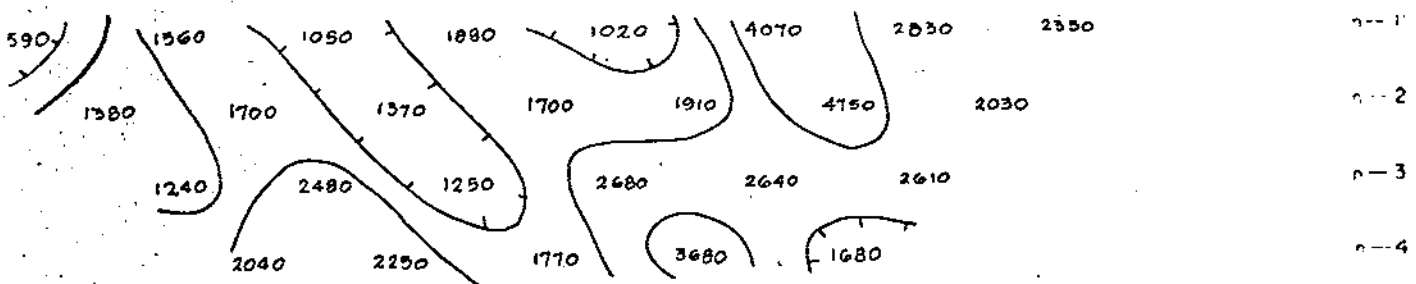
DATE SURVEYED JULY, 1973

INDUCED POLARIZATION AND RESISTIVITY SURVEY
 SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

GRID NO. 4 LINE NO. 8 E

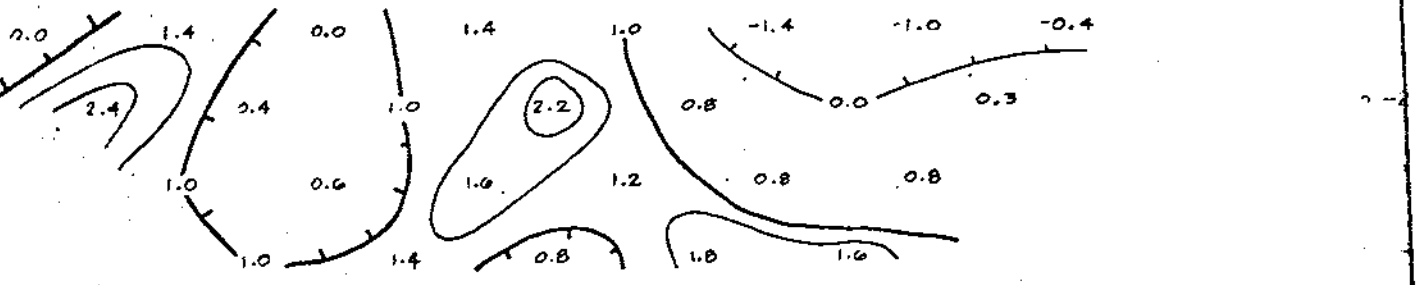
8S 7S 6S 5S 4S 3S 2S 1S 0

Resistivity (app) in Ohm Feet / 2π



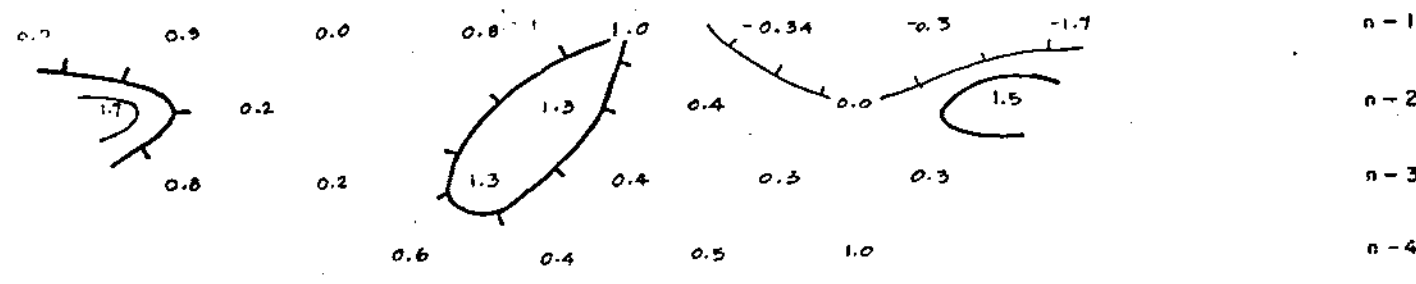
8S 7S 6S 5S 4S 3S 2S 1S 0

Frequency Effect (app) in %



8S 7S 6S 5S 4S 3S 2S 1S 0

Metal Factor (app)

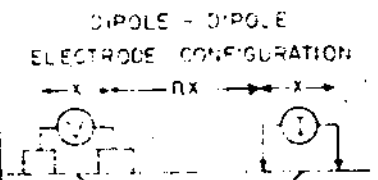


COMINCO LTD.

TAN PROPERTY

CHILLIWACK AREA NEW WESTMINSTER M.D., B.C.

GRID NO. 4
LINE NO. 12 E



PLOTTING POINTS OF 1, 2, 3, 8, 4

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ██████████

PROBABLE ██████████

POSSIBLE ██████████

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 4990
 MAP

JULY, 1973

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

GRID NO. 4 LINE NO. 12 E

B. ROAD or TRAIL WORK (Give length and average width of road or trail.)

Approximate length of the road is 2700 feet with a	COST
width of 7 feet.	2,992.00
	120.00
	1,113.60
	1,386.85
TOTAL	5,611.85

I wish to apply \$_____ of this work to the claims listed below.
 (One year only to each claim and within the first three years of its life.) (Sec. 51 (3) M.A.)

C. GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL (Includes line cutting)
 (State type of work)

	COST
TOTAL	

I wish to apply \$_____ of this work to the claims listed below.
 (State number of years to be applied to each claim.)

NOTE—Dollar value of work done under A, B, or C sections, totalling \$100, may be applied to a certificate of work.

Make a sketch of claims showing location of work declared in A or B above
 (if insufficient space, attach a sketch).

<u>Claims</u>	<u>Record Nos.</u>	<u>Due Date</u>	<u>Credit/Claim</u>	<u>Total</u>
Tan 39	27742	May 9	1	1
Tan 47	27792	May 29	1	1
Tan 1-12	25284-25295	April 5	1	12
Tan 17-30	27523-27536	April 4	1	12
				28

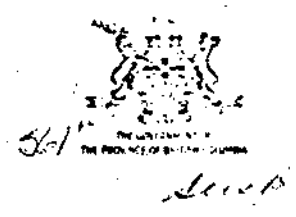
4. That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the *Taxation Act*.

SWORN and subscribed to at Calgary, Alberta
 this 27th day of April
 1974, before me—
 * [Signature]

M. McClave

• This affidavit may be taken by a person empowered to take affidavits by the *Evidence Act* of British Columbia.

MINERAL ACT
FORM I



NOTICE TO GROUP

Mining Division New Westminster Location Tamihl Creek Area

Name of group TAN (Group A)

We, the undersigned owners* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM	Record No. or Lot No.	SIGNATURE OF OWNER*	Free Miner's Certificate No.
TAN 39	27742	<i>M. McClaren</i>	133238
TAN 47	27792		
TAN 1	25284	Agent for:	
TAN 2	25285	G. Stapley	
TAN 3	25286	and W. Bell	
TAN 4	25287		
TAN 5	25288	G. Stapley	
TAN 6	25289	23 Bell Acres Road	
TAN 7	25290	R.R. 3, Sardis, B.C.	
TAN 8	25291	F.M.C. 133237	
TAN 9	25292	March 13, 1974	
TAN 10	25293		
TAN 11	25294	W. Bell	
TAN 12	25295	975 Chilliwack Lake Road	
TAN 17	27523	R.R. 3, Sardis, B.C.	
TAN 18	27524	F.M.C.	
TAN 19	27525		
TAN 20	27526	M. McClaren	
TAN 21	27527	O'Byrne Road	
TAN 22	27528	R.R. 3, Sardis, B.C.	
TAN 23	27529	F.M.C. 133238	
TAN 24	27530	March 13, 1974	
TAN 25	27531		
TAN 26	27532		
TAN 27	27533		
TAN 28	27534		
TAN 29	27535		
TAN 30	27536		

* May be signed by agent on behalf of owner.

GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.

Property Assessment Report
Tan Group
British Columbia
New Westminster Mining Division
Tamihi Creek Area
92H/4W

V. K. Read

April, 1974

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 4990	MAP

EXPLORATION

92H/4W

Latitude 49°01'N

Longitude 121°48'W

INTRODUCTION

An induced polarization survey and road construction was carried out during July to October, 1973 in an attempt to locate Cu/Zn mineralization on the property.

The work was done under the supervision of D. W. Heddle, P. Eng.

The Tan, SO and Ax claims are located in the New Westminster Mining Division at latitude 49°01'N and longitude 121°48'W. The claims cover the upper reaches of the Tamihi Creek valley adjacent to the International Boundary, some ten miles south-southeast of Chilliwack.

Access is by road from Vedder Crossing, a distance of approximately 11 miles.

HISTORY

Geological mapping and soil and stream silt geochemistry was carried out by Cominco during August-November, 1972 (Assessment Report #4085). In 1972, the owners did some stripping and trenching in two areas of known mineralization.

GEOLOGY

The claim group is underlain by the Chilliwack Group volcanics, Pennsylvanian to Permian in age. The volcanics can be divided into a lower acid series and an upper series of mixed andesites, dacites and minor acid volcanics.

Porphyritic rhyolites are the predominant rock types in the lower acid series. Fine grained and coarse-grained acid fragmentals make up a significant percentage of the acid pile.

The upper series comprise a sequence of andesites, dacites and minor acid volcanics upwards of 1500 feet in thickness. The acid volcanics in the upper series are, in contrast to those of the lower series, black and/or purplish in colour, and extremely siliceous.

GEOPHYSICAL SURVEY

After analysis of geochemical results obtained in 1972, several anomalous zones were outlined. These anomalies were used to narrow down target size and an induced polarization survey was carried out over four grid areas. These grid areas are located on the accompanying Plate TN-1.

The instrument used was a McPhar P-654 High Power Unit with frequencies of .31 and .50 cps. A dipole-dipole electrode configuration was employed with $X=100'$ and $N=1,2,3$ and 4.

Results were plotted and contoured at logarithmic intervals. Anomalous zones were classified as definite, probable and possible.

RESULTS

The I.P. survey outlined several areas displaying anomalous character. Surface projections of anomalous zones were categorized as definite, probable or possible.

Since surface geological mapping has shown that sulphide mineralization does exist and no exceptional geological noise sources were detected, it can safely be assumed that disseminated sulphides produced the major part of the I.P. effect. The sulphide suite is composed essentially of pyrite, sphalerite and relatively minor chalcopyrite.

Metal conduction factor was generally low indicating that finely disseminated sulphides, probably pyrite + chalcopyrite, produced the anomalous results. The correlation between relative metal factor highs and resistivity lows supports this view since sphalerite is an insulator and by itself would produce just the opposite effect.

A few of the samples taken from surface outcrop were found to contain up to 20 percent sphalerite along with disseminations of pyrite + chalcopyrite. This material could conceivably produce the anomalous I.P. results found in the field.

- a. Grid 1; Plate I.P.-81-2
Anomaly strength - weak
Correlation (Sa-P.F.E.-M.F.)* - fair
Target - possible, location uncertain

- b. Grid 1; Plate I.P.-81-4
Anomaly strength - weak
Correlation - fair
Target - possible, location uncertain

- c. Grid 2; Plate I.P.-81-4
Anomaly strength - strong
Correlation - good.
Target - definite, location well defined

- d. Grid 2; Plate I.P.-81-5
Anomaly strength - moderate to strong
Correlation - good
Target - probable, deep, location well defined

- e. Grid 2; Plate I.P.-81-6
Anomaly strength - weak
Correlation - good
Target - small, probably due to geologic and topographic noise.

- f. Grid 2; Plate I.P.-81-7
Anomaly strength - weak
Correlation - poor
Target - nil

- g. Grid 3; Plate I.P.-81-8
Anomaly strength - weak
Correlation - fair
Target - possible, location uncertain

- h. Grid 3; Plate I.P.-81-9
Anomaly strength - strong
Correlation - good
Target - definite, open to south

* Sa - Resistivity (Apparent)
P.F.E. - Percentage Frequency Effect (Apparent)
M.C.F. - Metal Conduction Factor (Apparent)

Page 4

- i. Grid 3; Plate I/P.-81-10
Anomaly strength - weak
Correlation - fair
Target - possible

- j. Grid 3; Plate I.P.-81-11
Anomaly strength - weak
Correlation - poor to fair
Target - Very shallow probably due to geological and/or topographical noise.

- k. Grid 4; Plate I.P.-81-12
Anomaly strength - strong
Correlation - very good
Target - definite, moderate depth

- l. Grid 4; Plate I.P.-81-13
Anomaly strength - very weak
Correlation - poor
Target - nil

ROAD CONSTRUCTION

A road was constructed during September and October to the site of the anomaly on Grid No. 4. The road begins at the confluence of an unnamed creek and Tamihi Creek on the TAN #47 claim. The road traverses a distance of approximately 1/2 mile, terminating at 5S/8E on Grid No. 4. Two men were employed for approximately 3 weeks using a John Deere 10-20. The purpose of the road is for the means of transporting a drill into the area and test an anomaly outlined by the geophysical survey.

QUALIFICATIONS OF VERN K. READ

I, Vern K. Read, with business address in Calgary, Alberta, do certify that:

1. I am a geophysicist employed with Great Plains Development Company of Canada, Ltd.,
2. I am a graduate of the University of British Columbia (BSc - Geophysics 197
- 3 I have been engaged in all facets of mineral exploration since 1967, and have worked extensively in British Columbia.
4. Although I did not personally supervise geophysical activities on the Tan Group of mineral Claims I consider the results and conclusions thereof to be correct to the best of my knowledge and ability.

Respectfully submitted

V. K. Read
V.K. Read

COST BREAKDOWN

(1) Road Construction

Cat charges direct	\$ 2,992.00	
Cat mobilization	60.00	
Cat demobilization	60.00	
Swamper's time - 192 hrs. @ \$5.80/hr	1,113.60	
Helper for drilling and blasting - 63 hrs @ \$5.80/hr	365.40	
Truck rental	602.42	
Meals	23.10	
Gas	90.83	
Salary to geologist - 7 days @ \$43.50/day	<u>304.50</u>	
Total		\$ 5,611.85

(2) Geophysics

2 geophysical technicians (graduate geophysicists)		
June 28-July 16 (19 days) @ \$68.00/day	\$ 2,584.00	
2 helpers @ \$25.00/day for 5 days	250.00	
Instrument rental @ \$45.00/day for 5 days	225.00	
Operating pay charge @ \$75.00/day for 10 days	750.00	
Room and board	1,000.00	
Truck rental	<u>400.00</u>	
Total		5,209.00

(3) Line Cutting

3.27 miles line cutting @ \$200.00/mile		654.00
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(4) Communication

75.00

(5) Administration

1,394.00

TOTAL EXPENDITURES

\$12,943.85

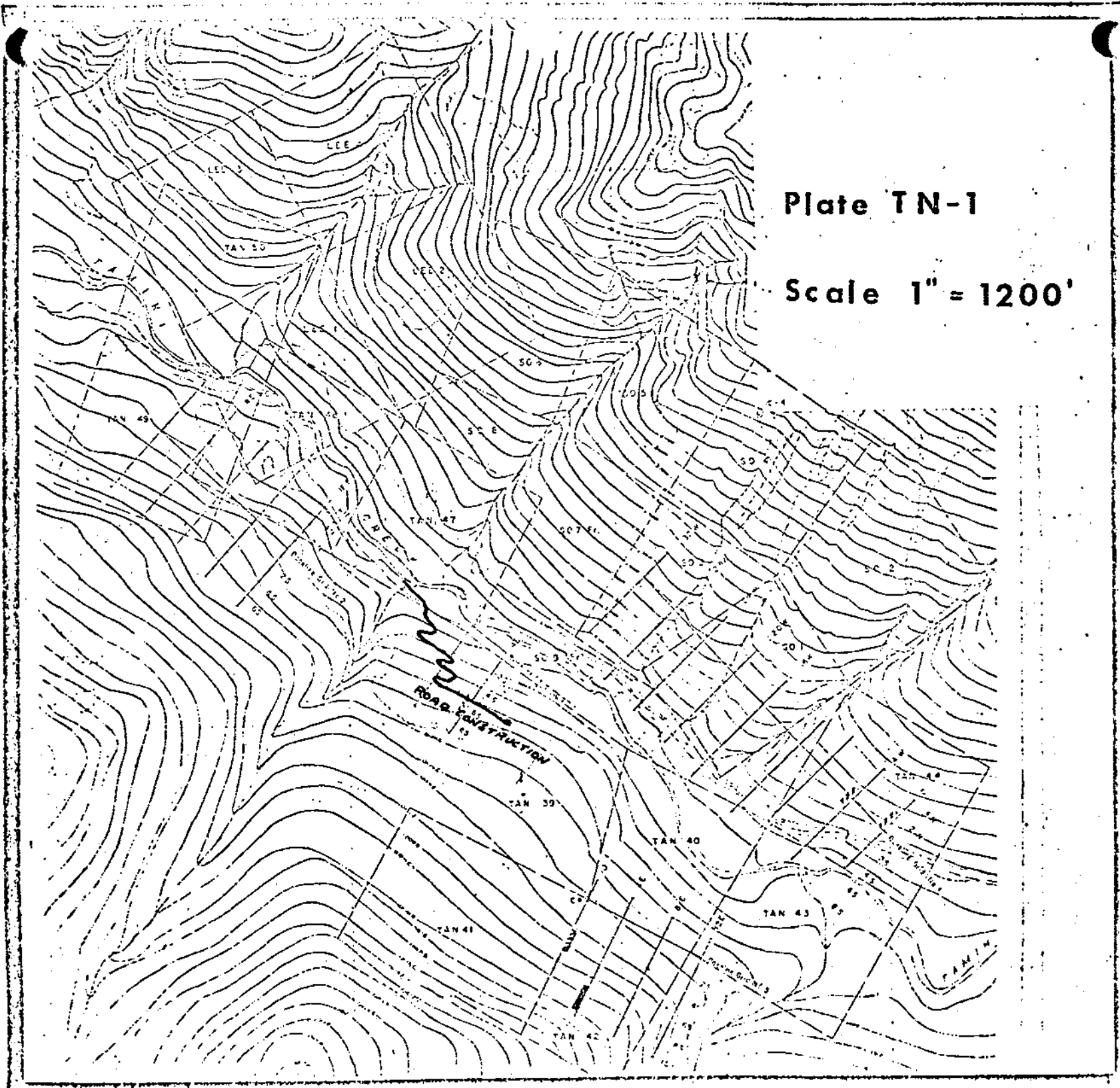
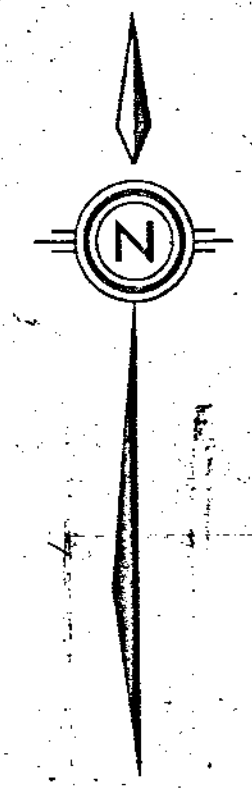
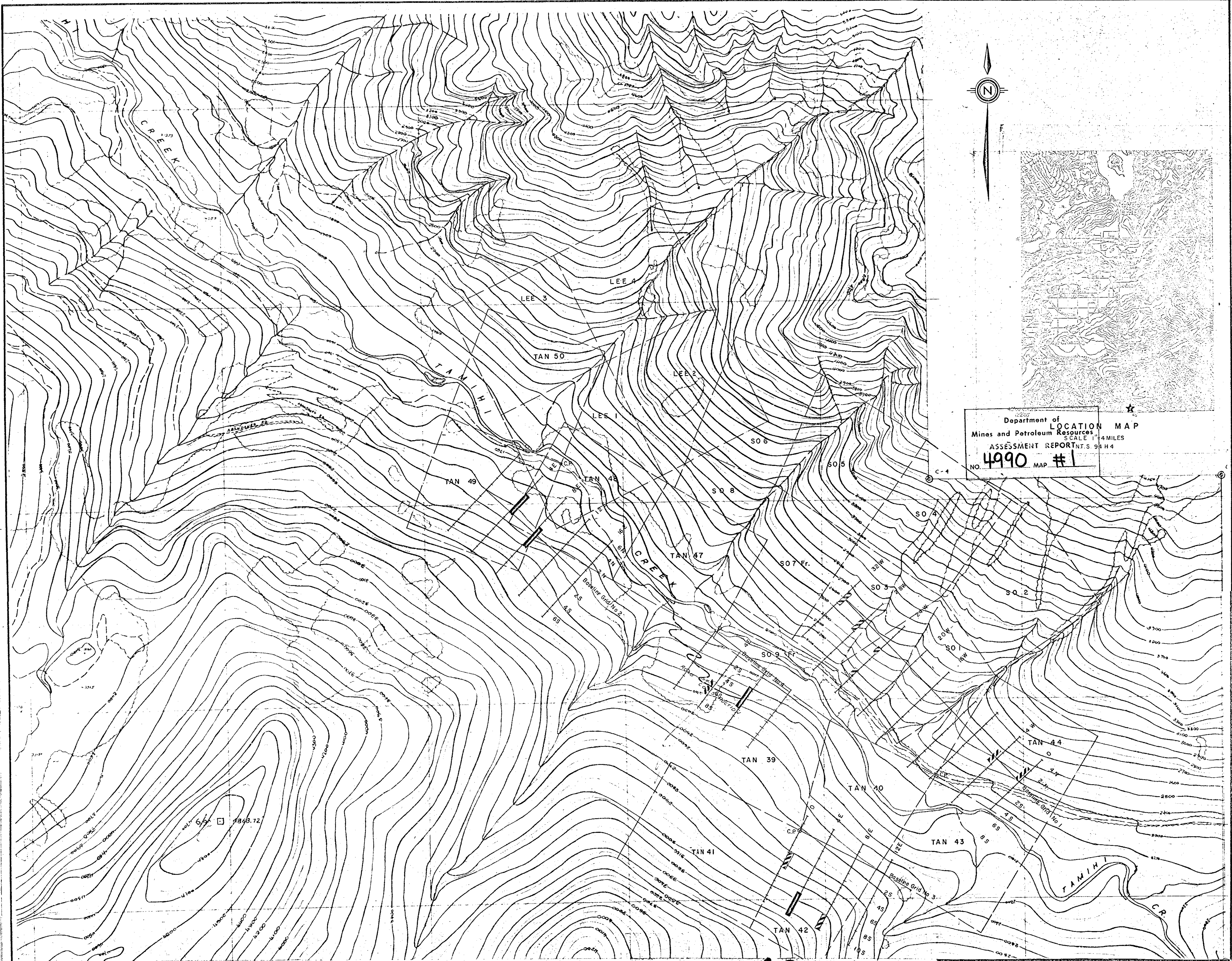


Plate TN-1

Scale 1" = 1200'

Department of
Mines and Petroleum Resources
NO 4990 MAP #2



Department of
Mines and Petroleum Resources
SCALE 1" = 4 MILES
ASSESSMENT REPORT NO. S 94 H 4
NO. **4990** MAP #1

TOPOGRAPHIC CONTOURS
I.P. GRIDS No 1, 2, 3, 8, 4
CLAIM BOUNDARIES
CREEKS

SURFACE PROJECTION
OF ANOMALOUS ZONES
DEFINITE
PROBABLE
POSSIBLE
INSTRUMENT: MCHAR P-654 HIGH POWER
FREQUENCIES: 0.318 5.0 cps
DIPOLE-DIPOLE ELECTRODE CONFIGURATION,
X = 100', n = 1, 2, 3 8 4

4990
M1

TAN GROUP		INDUCED POLARIZATION SURVEY ANOMALY LOCATION PLAN	
Drawn by:	Traced by:	NEW WESTMINSTER MINING DISTRICT, CHILLIWACK AREA B.C.	
		Scale: 1" = 500'	Plate: