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GEOPHYSICAL REPORT

on the

UNUK AND COUL CLAIM GROUPS Jeff and Tarn Grids

SUB-RECORDER

RECEIVED

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VANCOUNER B.C.

UNUK RIVER AREA

SKEENA MINING DIVISION NTS 104 B/9 and 104 B/10

Held under option by:

GRANGES INC.

23300 - 885 WEST GEORGIA STREET

VANCOUVER, BC

V6C 3E8

GEOLOGICAL BRANCH ASSESSMENT REPORT

October 18, 1991

A.J. O'Donnell

21,749

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INTRODUCTION

A geophysical survey was undertaken on the Jeff and Tarn Grids, which encompass portions of the Coul 3 (tenure number 251346), Unuk 11 (251360) and Unuk 12 (251361) claims. Malcolm Bell is the recorded holder of the claims. The claims are held by Granges Inc. of Vancouver, BC, under option from Springer Resources Ltd. and Cove Resources Corporation. The exploration was completed by Scott Geophysics Ltd. under the supervision of A.J. O'Donnell, geologist for Granges Inc.

LOCATION AND ACCESS

The claims are located in the Skeena Mining Division, approximately 80 km northwest of Stewart, BC, on NTS map sheets 104 B/9 and 104 B/10 (Figures 1 and 2).

Access to the area is gained by helicopter from the outpost Bell II on the Stewart-Cassiar highway approximately 50 km to the east.

The property is characterized by steep vegetation-covered slopes up to 1220 m (4000 ft) elevation and alpine conditions with ice fields and glaciers at higher elevations.

GEOLOGY

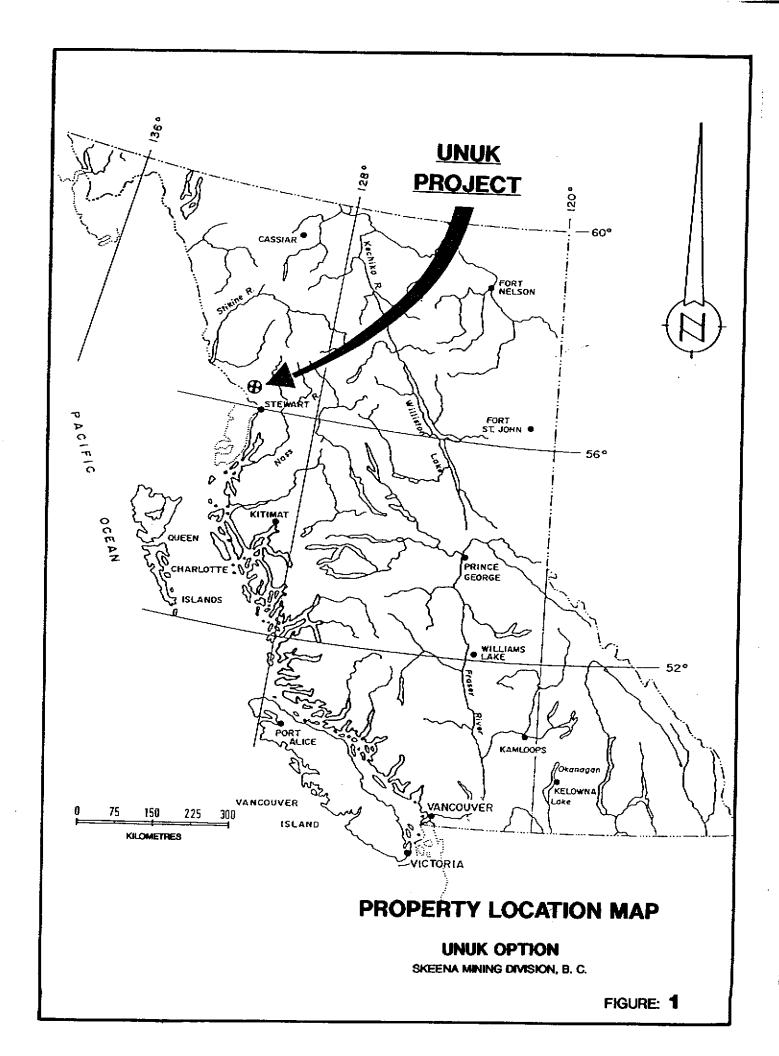
The property is underlain by a thick volcanic-sedimentary succession of Upper Triassic to Middle Jurassic age overlain by marine basin sediments of Middle to Upper Jurassic age, cut and intruded by a variety of plutons spanning late Triassic to Tertiary time.

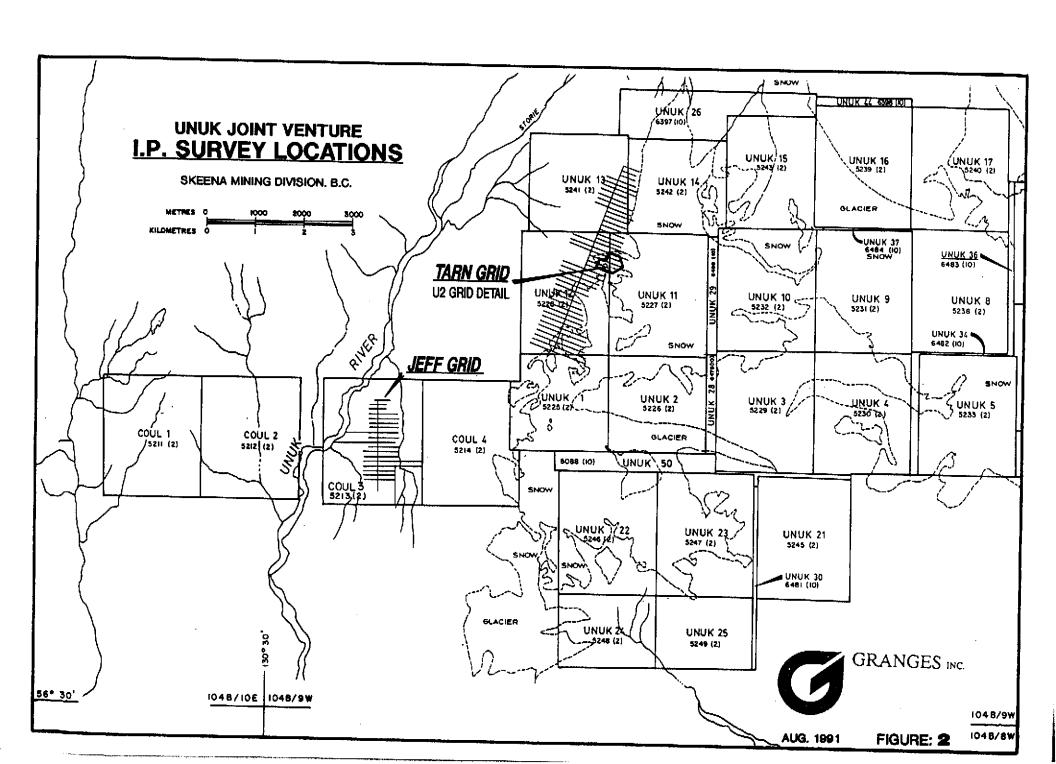
PREVIOUS WORK

Previous work on the property consisted of prospecting, geological mapping, soil and rock sampling, airborne electromagnetic and magnetic surveying, ground magnetic and VLF electromagnetic surveying, trenching and diamond drilling, the results of which are documented in reports held by Granges Inc.

GEOPHYSICAL SURVEY

Induced polarization and magnetometer surveys were conducted over portions of the Jeff and Tarn Grids within the period August 15 to August 27, 1991. A total of 15.3 line kilometres of induced polarization survey and magnetometer survey were completed on the two grids, 2.0 km on the Tarn grid and 13.3 on the Jeff grid. Details of lines are given in the appended production reports.





The pole dipole electrode array was used on the induced polarization survey, with an "a" spacing of 25 metres and "n" separations of 1, 2, 3, 4 and 5. The current electrode location was to the west of the potential electrodes on the grids.

Instrumentation

A Scintrex IPR11 time domain receiver, and a Scintrex 2.5 kw IPC7 transmitter were used for the induced polarization survey. Readings were taken using a 2 second alternating square wave. The chargeability for the eighth slice is the value that has been plotted on the accompanying plans and pseudosections (M7; 690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds).

A Scintrex MP4 total field magnetometer was used for the magnetometer survey. A Geometrics G816 total field magnetometer was used as the fixed base station magnetometer. All readings were corrected for diurnal drift with reference to the base station.

The survey data was archived, processed and plotted using a Toshiba 3200 microcomputer running Scintrex Soft II and proprietary software. All chargeability responses were analyzed for their spectral characteristics (cole-cole intrinsic chargeability, time constant, and frequency dependence) using Johnson's curve matching procedure (Scintrex Soft II). In areas of low amplitude chargeability response, the spectral parameters are often relatively poorly defined.

Jeff Grid - Magnetometer Survey

A total of 13.3 km of magnetometer surveying was completed on the Jeff grid. Readings expressed in gammas were taken every 25 metres along section lines 100 metres apart.

The survey indicated generally weak anomalous north-south striking trends, which are associated with, or in close proximity to, the chargeability highs. The majority of these trends, because of their association with IP anomalies, warrant further exploration by diamond drilling.

Jeff Grid - Induced Polarization Survay

A total of 13.37 km of induced polarization surveying was undertaken over the Jeff grid, with readings being taken every 25 metres on section lines 100 metres apart. The survey indicated north striking anomalous trends consisting of both chargeability and resistivity.

The eastern portion of the grid, and especially to the south east, the survey exposed an area of very low resistivity with chargeabilities being difficult to detect, due to the resulting low primary voltages. It is assumed that the resistivity anomalies are the result of graphitic argillite.

It is recommended that the IP chargeability, resistivity and magnetic anomalies in favourable geology be tested by five widely-spaced diamond drill holes at the following locations:

Hole #1: 1300N/0+00 270°W -45° Depth 115 m

The hole is designed to check the underlying geology, anomalous gold in the soil and the chargeability high.

Hole #2: 7+54N/0+25E 270°W -45° Depth 115 m

This hole is to test the geological contact, a strong resistivty anomaly and some gold values in the soil.

Hole #3: 900N/2+00W 270°W -45° Depth 120 m

Hole #3 is designed to test a chargeability high with a magnetic association along with gold values in the soil.

Hole #4: 1600N/0+93W 270°W -45° Depth 1000 m

The hole is designed to test a north striking chargeability high associated with anomalous soil values.

Hole #5: 1800N/0+00 270°W -45° Depth 100 m

This hole is designed to test both the elevated magnetometer anomaly and a possible geological contact which has been projected by mapping.

Tarn Grid - Magnetometer Survey

The Tarn Grid was located as a detailed area of the U-2 Grid established in 1990. The magnetometer survey indicated a local, slightly above background magnetometer high with the higher gamma readings located on the eastern portion of line 3550N. A further magnetic high is associated with resistivity and chargeability on line 3400N which has been recommended for diamond drilling.

Tarn Grid - Induced Polarization Survey

Four short lines were surveyed on a 25 metre interval over section lines 50 metres apart. The strongest anomalous area in both chargeability and resistivity was indicated on line 3400N

approximately 24+37E. To the south on line 3550N the anomaly is still relatively strong. However, the remaining lines indicated lower chargeability with an increase in resistivity.

It is recommended that the anomalous zone be tested by drilling at the following coordinate:

3400N 23+75E -45°E Depth 100 m

Further exploration would depend upon the results obtainbed.

CONCLUSIONS AND RECOMMENDATIONS

The IP and magnetometer geophysical surveys indicated several anomalous areas on the Jeff grid and an IP zone on the Tarn grid.

It is recommended that these areas be tested by at least five diamond drill holes on the Jeff grid and one in the Tarn grid area, for a total of approximately 650 metres. Further exploration would depend upon the results obtained from the drilling.

Respectfully submitted,

A.J. O'Donnell

STATEMENT OF EXPENDITURES

Scott Geophysics Ltd.

Geophysical Survey Fees: 13 survey days	\$12,939.80
Field Assistants (2): 15 days	3,651.14
Demobilization: 2 travel days	1,373.52
Food and Accomodation	460.06
Report Preparation and Management	669.38
	19,093.90
Plus GST (7%)	1,336.57
	\$20,430.47

The costs are apportioned as follows:

Coul 3: \$17,759.81 Unuk 11: 1,335.33 Unuk 12: 1,335.33 Alex 11

CERTIFICATE OF QUALIFICATIONS

- I, Arthur John O'Donnell, of Delta, British Columbia do hereby certify that:
- 1) I am Exploration Manager for Granges Inc. with offices at 2300, 885 West Georgia Street, Vancouver, B.C. V6C 3E8.
- 2) I am a graduate of Saint Francis Xavier University, Antigonish, N.S. with a BSc degree in geology. I also took an extra year of geology at Dalhousie University, Halifax, N.S.
- 3) That I have practised my profession for thirty years.
- 4) I have been a member in good standing of the Association of Professional Engineers of the Province of Ontario since 1970 and the Association of Professional Engineers Province of Manitoba since 1980.

Dated at Vancouver, B.C. this 4th day of March, 1991.

1700-11

A.J. O'Donnell, P.Eng.

APPENDIX A

GEOPHYSICAL SURVEY PRODUCTION REPORT
Scott Geophysics Ltd.

GEOPHYSICAL SURVEY PRODUCTION REPORT

page_1_of___

IPR 11 SURVEY: pole dipole array, a=25 meters, n=1 to 5

Project	No.: 9141 Client: Gra	nges Inc.	Area: <u>Un</u>	nik River
Date	Lines surveyed and c	omments		Production
Sun	I t			1
Aug. 11				
Mon Aug. 12				<u>i</u>
Tues				1
Ayg. 13	1 1 1			1 1 1
Wed				
Aug. 14	•			1 1 1
Thurs	Mob to camp.			400 meters IP
Aug. 15				400 meters mag.
	Tarn	Dump 914	10101	1
Fri	L3250N, L3300N,			1600 meters IP
Aug. 16	(L3350N, L3400N			1500 meters mag.
	Tarn	<u>Dump 914</u>	10102	
Sat Aug. 17	L1300N L1400N to station 75	east		1450 meters IP 1450 meters mag.
	Jeff	Dump 914	10201	
		·	Totals	3450 meters IP
Remarks:			(this wk)	3350 meters mag.
			Totals	3450 meters IP
			(to date)	3350 meters mag.
			Personnel:	S{M T W T F S
			Dominique E	
			Andre McNic	
			Matt Scott	ard
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	Λ		s = standby	
	1		¦d = data pr ¦g = mag.	oc. l = linecutting
Signed:	Ce Sall		Date:	my 13/41

GEOPHYSICAL SURVEY PRODUCTION REPORT

page 2 of 3

IPR 11 SURVEY: pole dipole array, a=25 meters, n=1 to 5

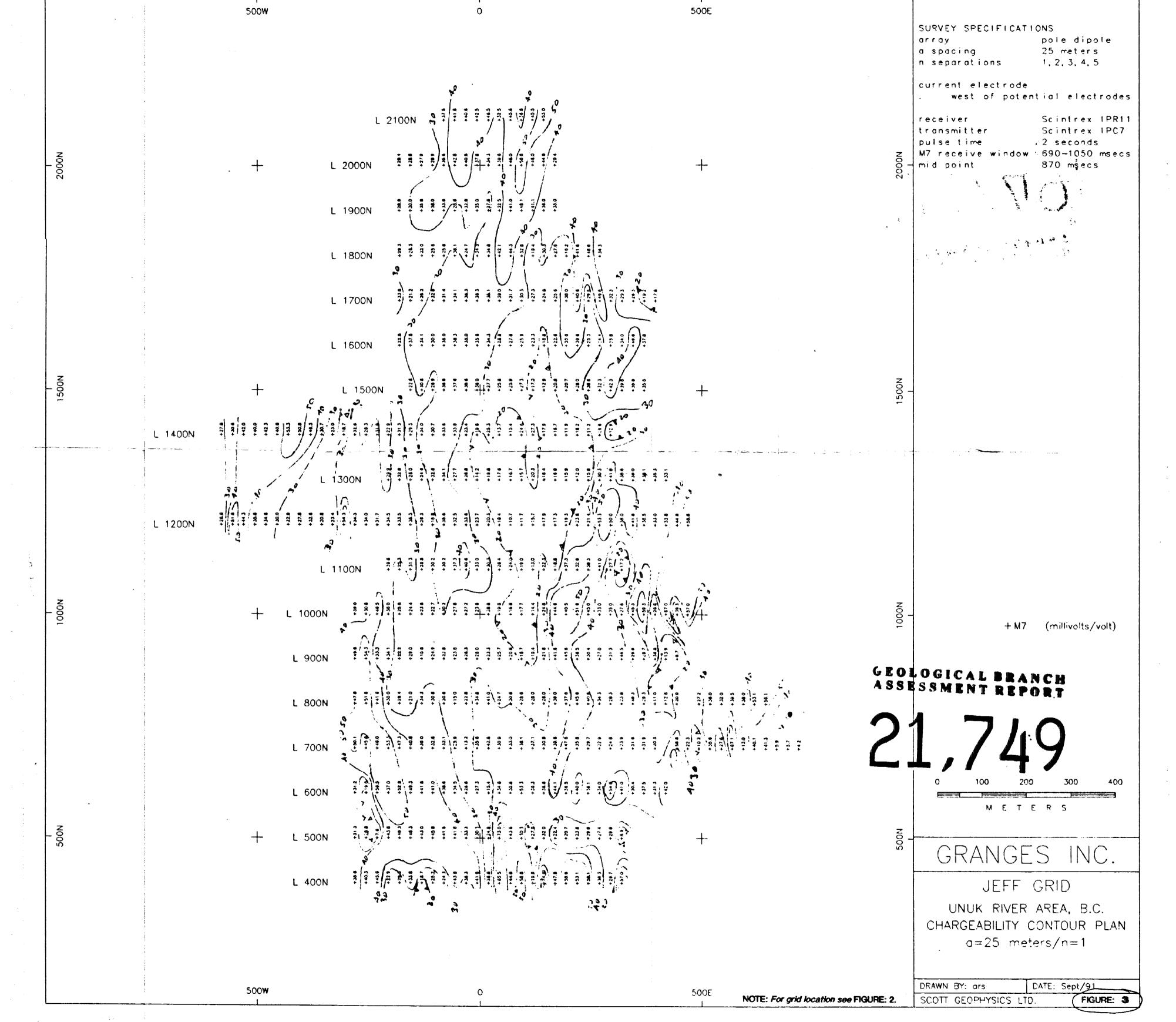
Project	No.: 9141 Client: Gran	ges Inc.	Area: <u>Ur</u>	uk River
Date _	Lines surveyed and co	ments		Production
Sun	L1400N from station 7	5E		1825 meters IP
Aug. 18	L1500N, L1600N			1825 meters mag
	L1700N to station 00 Jeff	D 01	1.41.0000	i
Mon	L1700N from station 00		1410202	1350 1 75
	L1800N, L1900N, L2000N			1750 meters IP
nug. 17	: 12000N, 12000N, 12000N	N		1750 meters mag.
	Jeff	Dump 91	L410203	! !
Tues	L2100N			1375 meters IP
Ayg. 20	L1200N			1375 meters mag.
				f t
Fu - 3	Jeff	Dump 91	1410204	1
Wed	L1100N, L1000N			1725 meters IP
Aug. 21	L900N to station 75W			1725 meters mag.
	Jeff	Dump 91	410205	1 1 1
	L900N from station 75W	i		1550 meters IP
Aug. 22	L800N			1550 meters mag.
	Jeff	Dump 91	410206	
Fri	L700N, L600N			1825 meters IP
Aug. 23	P. Communication of the Commun			1825 meters mag.
	1		;	
	Jeff	Dump 91	410207	
	L500N, L400N		;	1300 meters IP
Aug. 24	i •			1300 meters mag.
	Jeff	D 01	410000	
	Jerr	Dump 91	10208 ;	11350 meters IP
Remarks:			(this wk)	
MURITAD.			(CIIIS WK)	11350 meters mag.
			Totals	14800 meters IP
			(to date)	14700 meters mag.
			Personnel:	S!M T W T F S
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			Andre McNic	
			Josee Cataf	
			Matt Scott	<u>ticigiticigit</u>
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			Granges	pipipipipip
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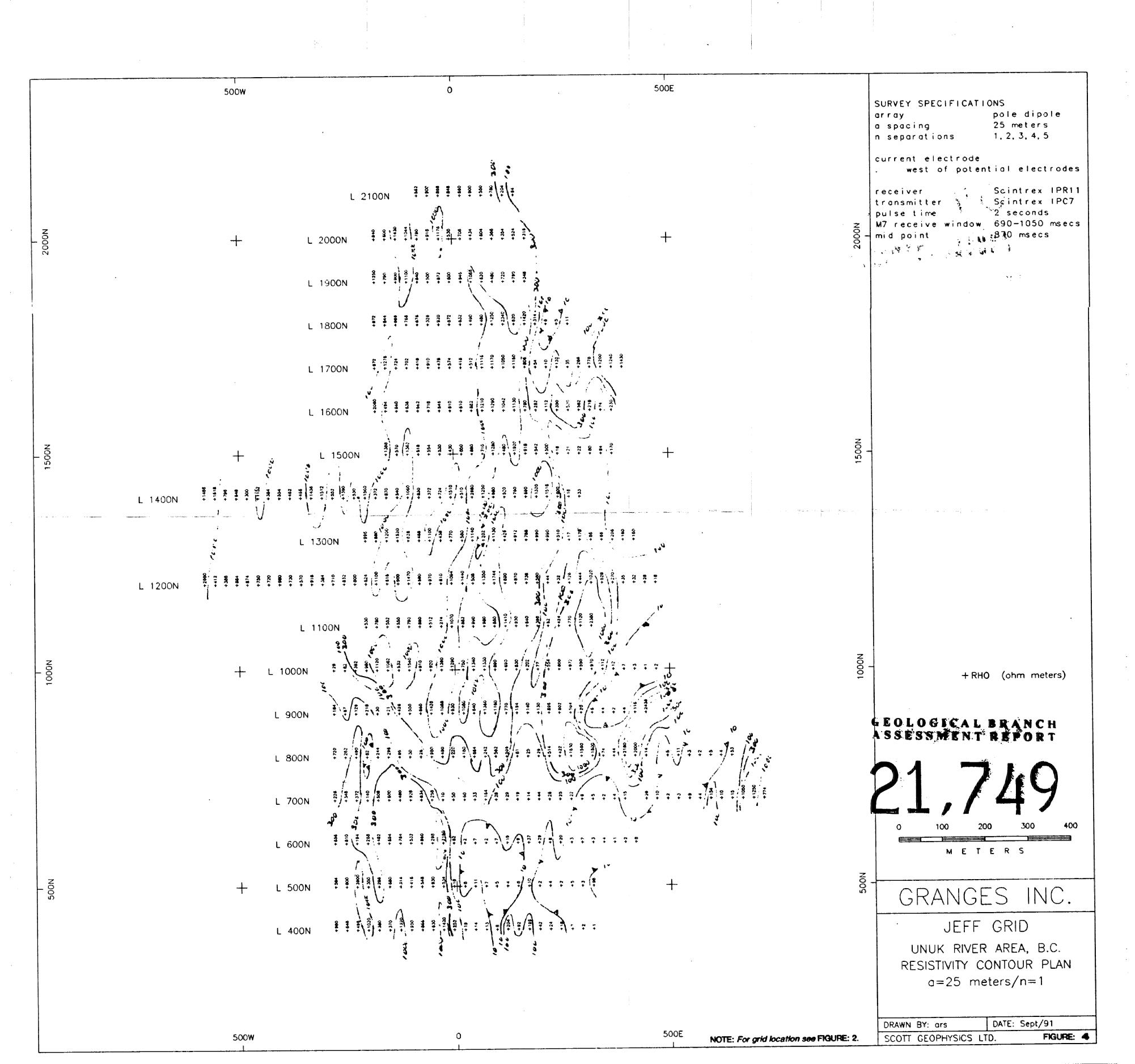
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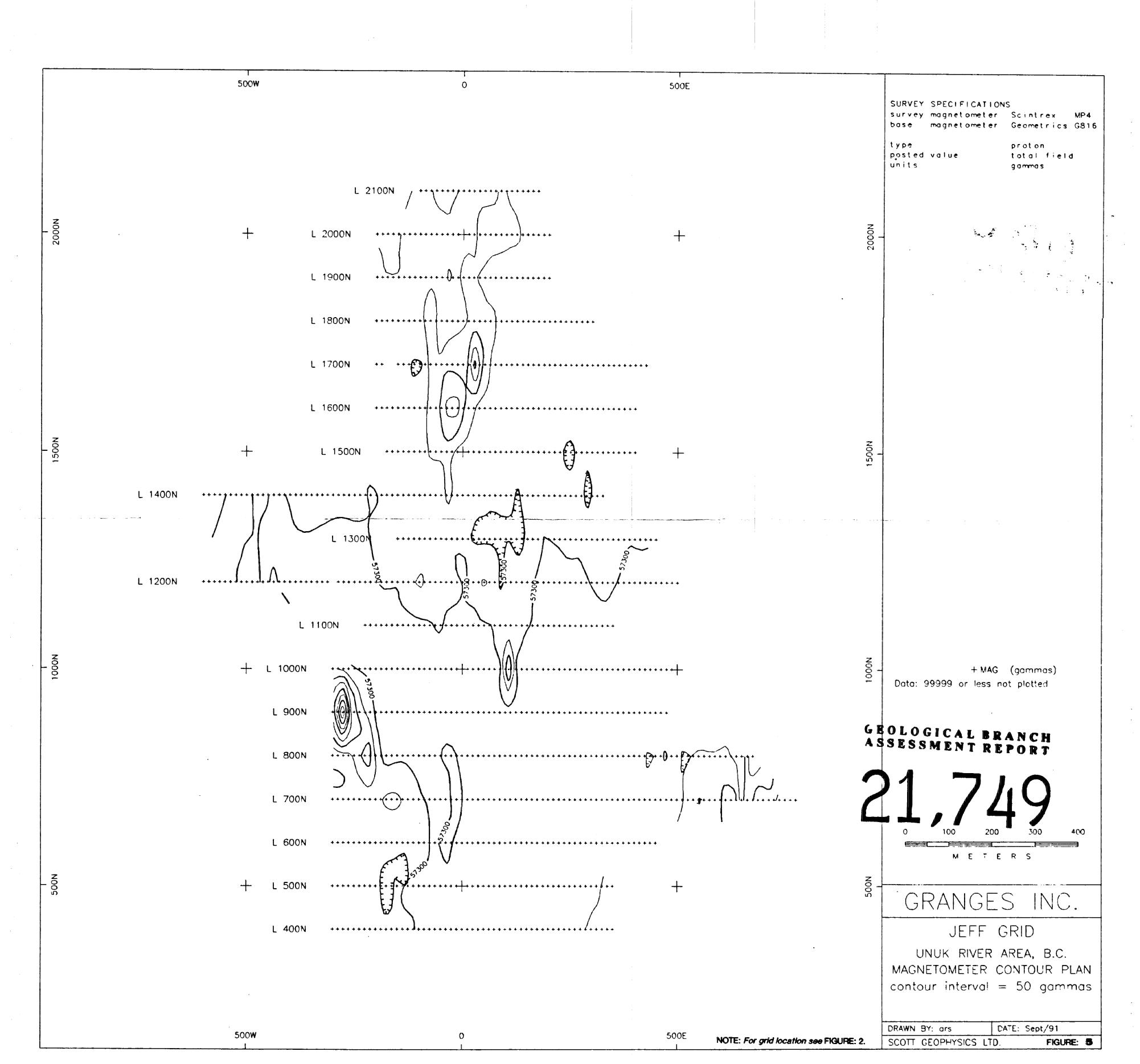
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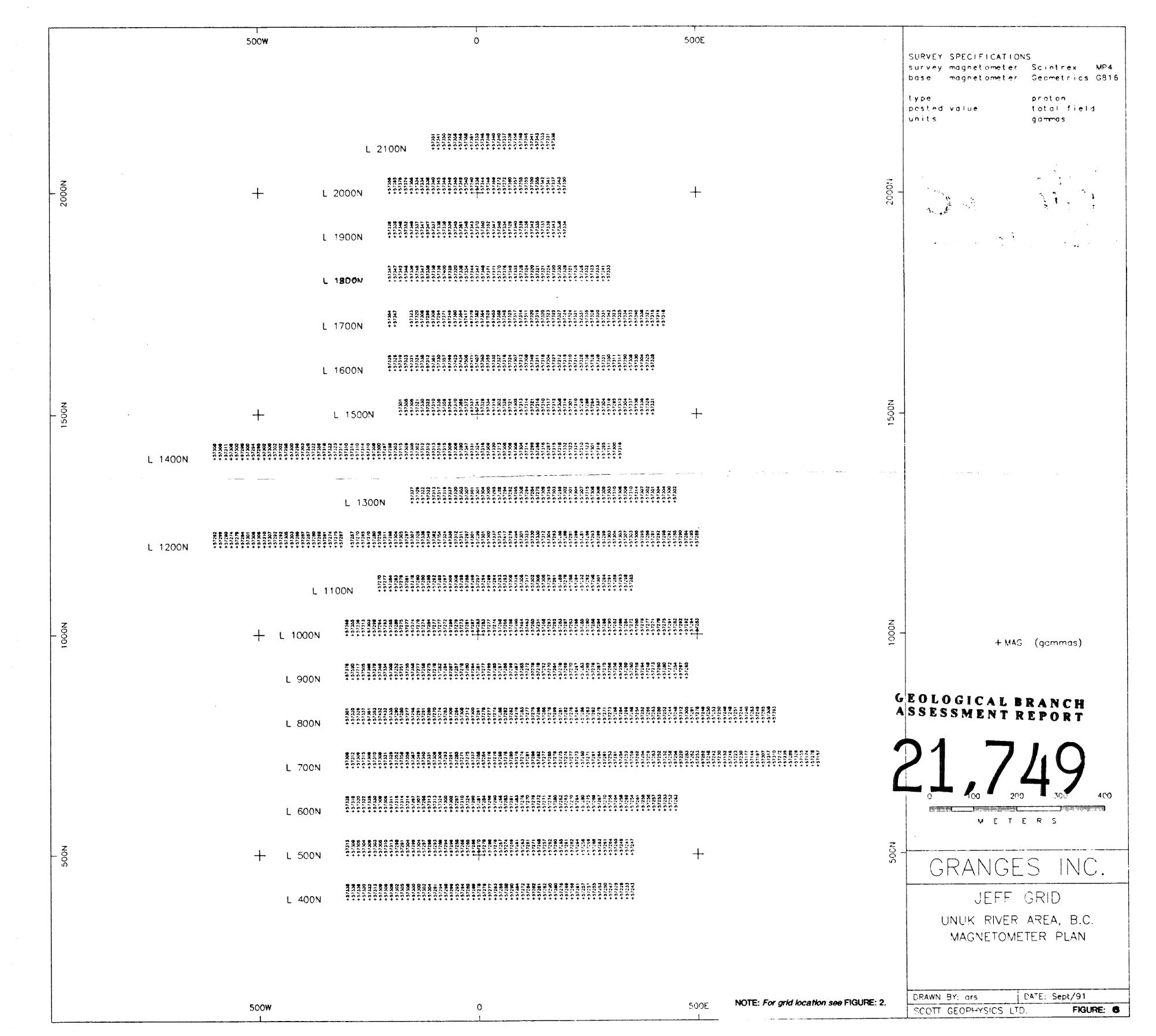
IPR 11 SURVEY: pole dipole array, a=25 meters, n=1 to 5

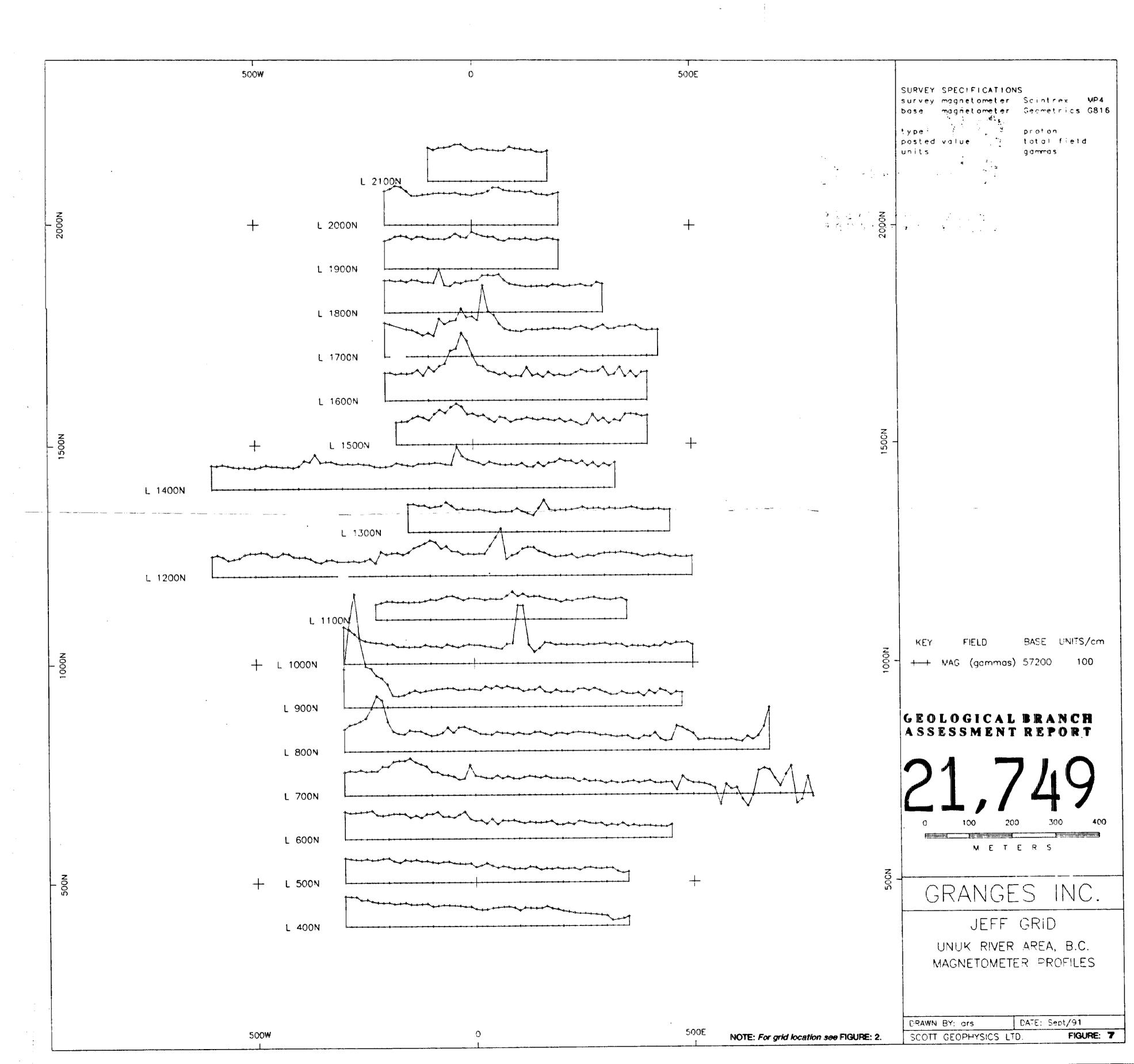
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p = pots				-
p = pots			r = receive	r t = transmitter
$ s = \text{standby} \qquad m = \text{mob/demob}$ $ d = \text{data proc.} \qquad 1 = \text{linecutting}$ $ g = \text{mag.} \qquad 0$				
d = data proc. 1 = linecutting g = mag.				
g = mag. s		1		
		1 8		oc. I = linecutting
ngnea: _ c = Date: And 3/9/	Dalama 3	10 Jest		1 19/
	ər dueq: —	000	Date:	W 2/91

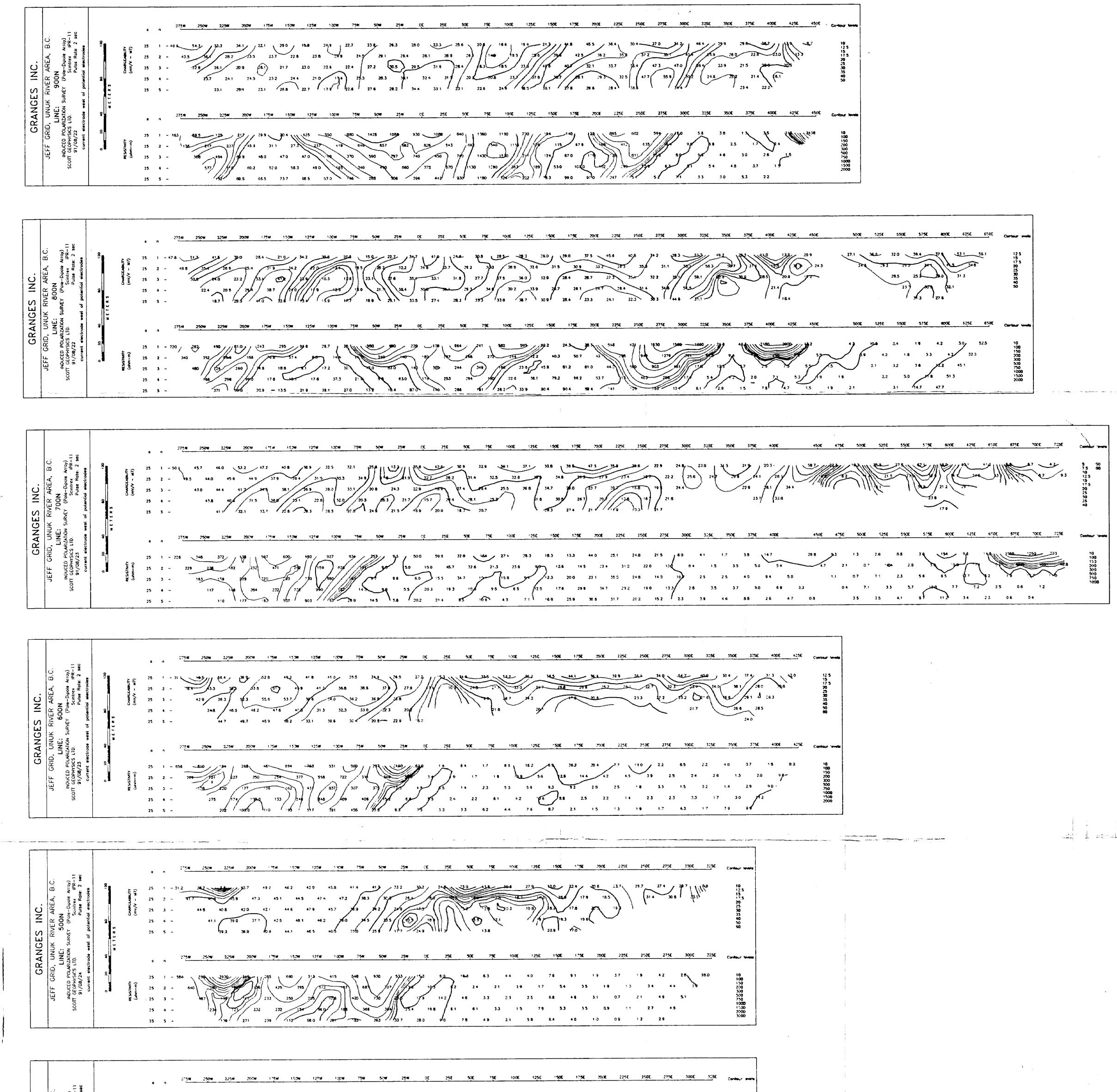












25E 50E 75E 100E 125E 150E 175E 200E 225E 250E 275E 300E 325E

GRANGES INC.

JEFF GRID, UNUK RIVER AREA, E

LINE: 400N

INDUCED POLARIZATION SURVEY (Pole-Dipole Art

SCOTT (GEOPHYSICS LTD.

91/08/24

current electrode weet of art.

25 4 -

25 5 --

21,749

NOTE: For grid location see FIGURE: 2.
FIGURE: 8a

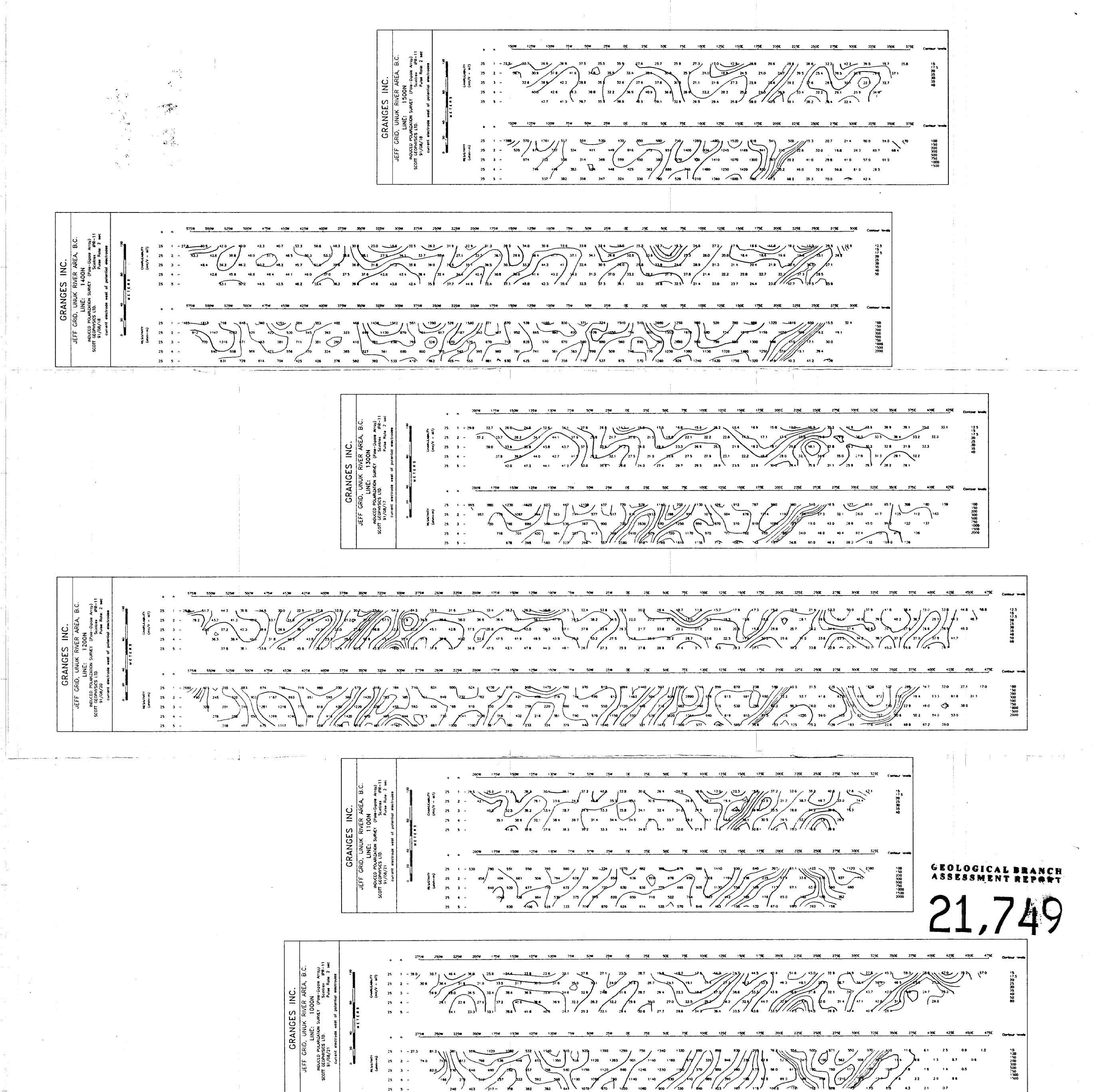
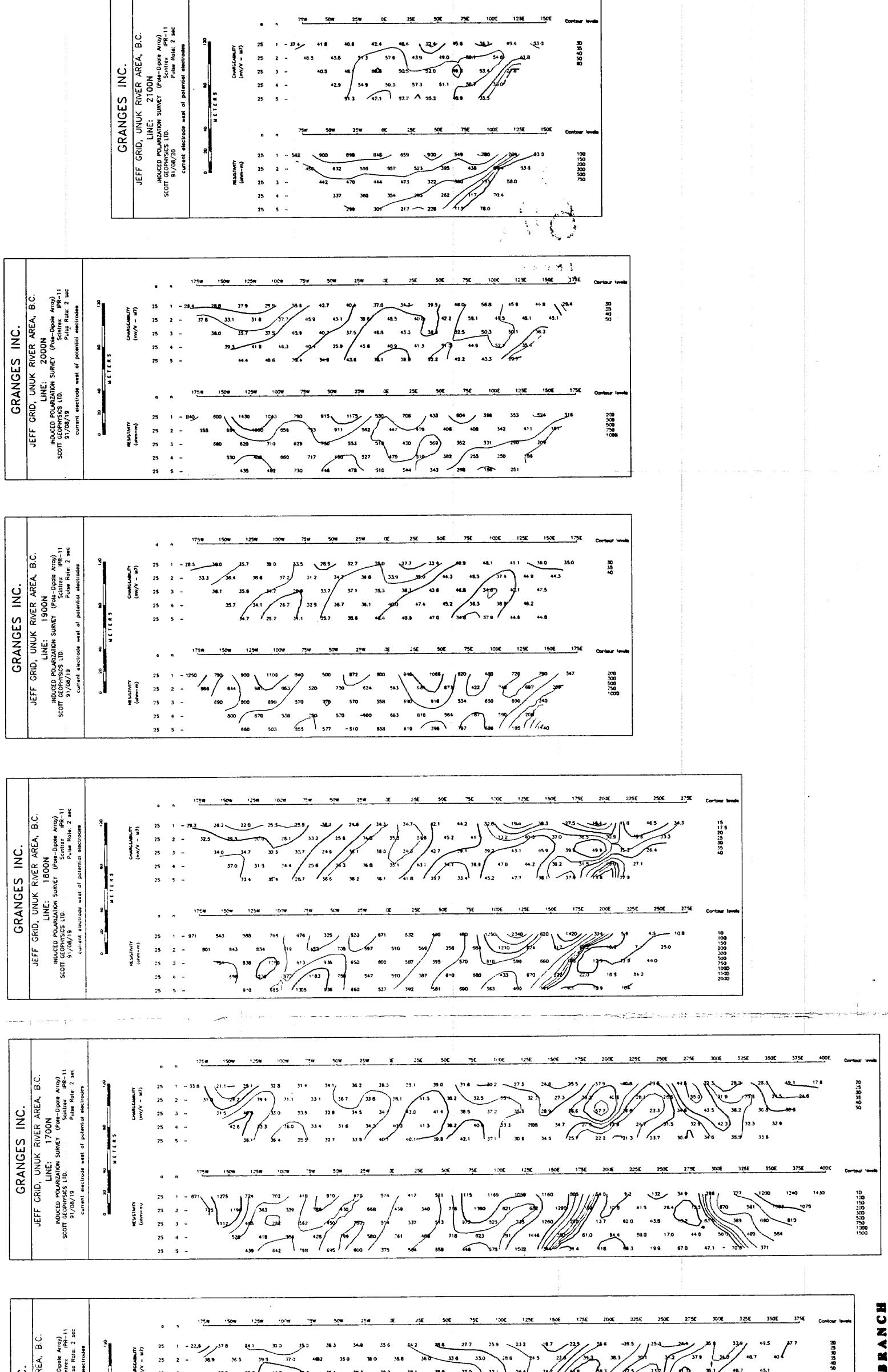


FIGURE: 8b



GRANGES INC.

JEFF GRID, UNUK RIVER AR
LINE: 1600N
INDUCED POLARIZATION SURVEY (POINT
SCOTT CEOPHYSICS LTD.
91/08/18

518

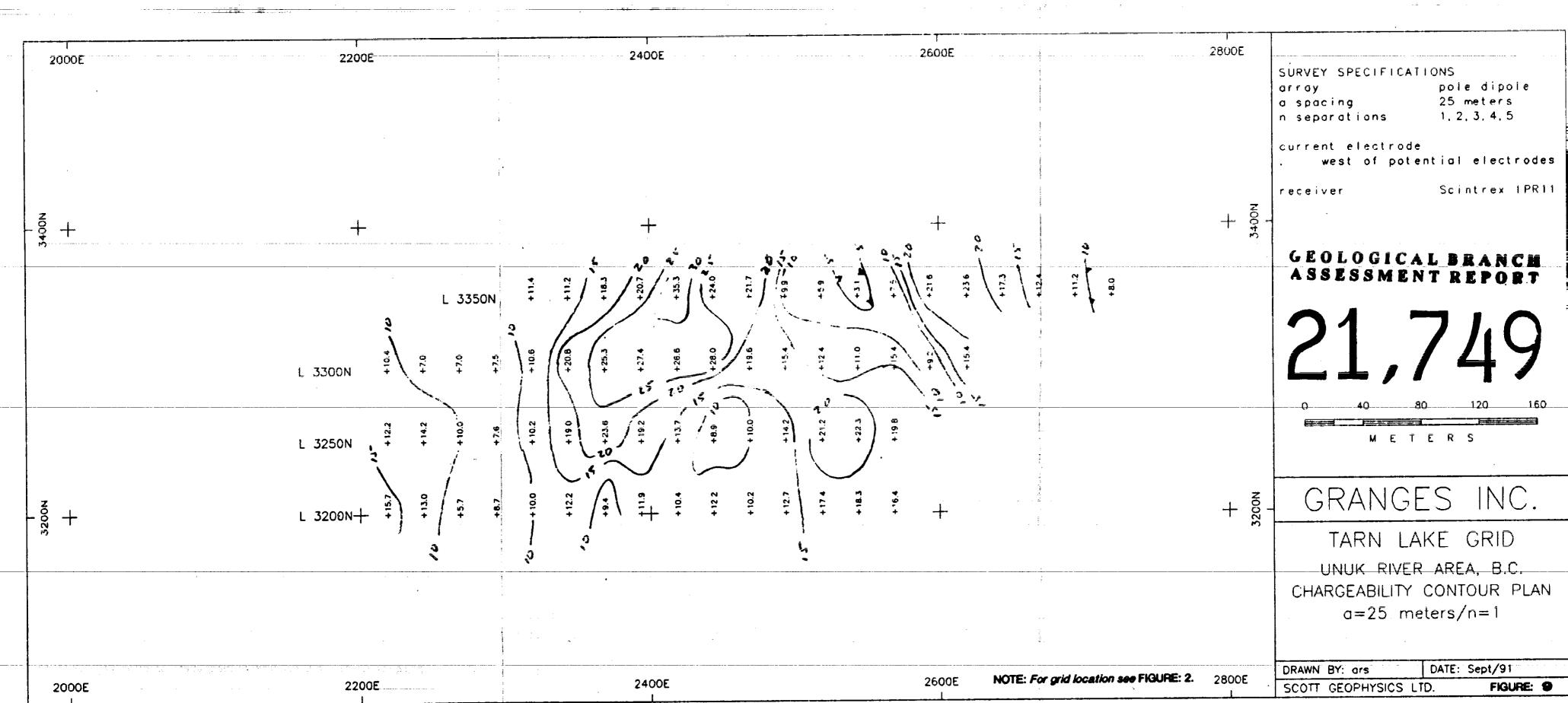
SESSMENT REPORT

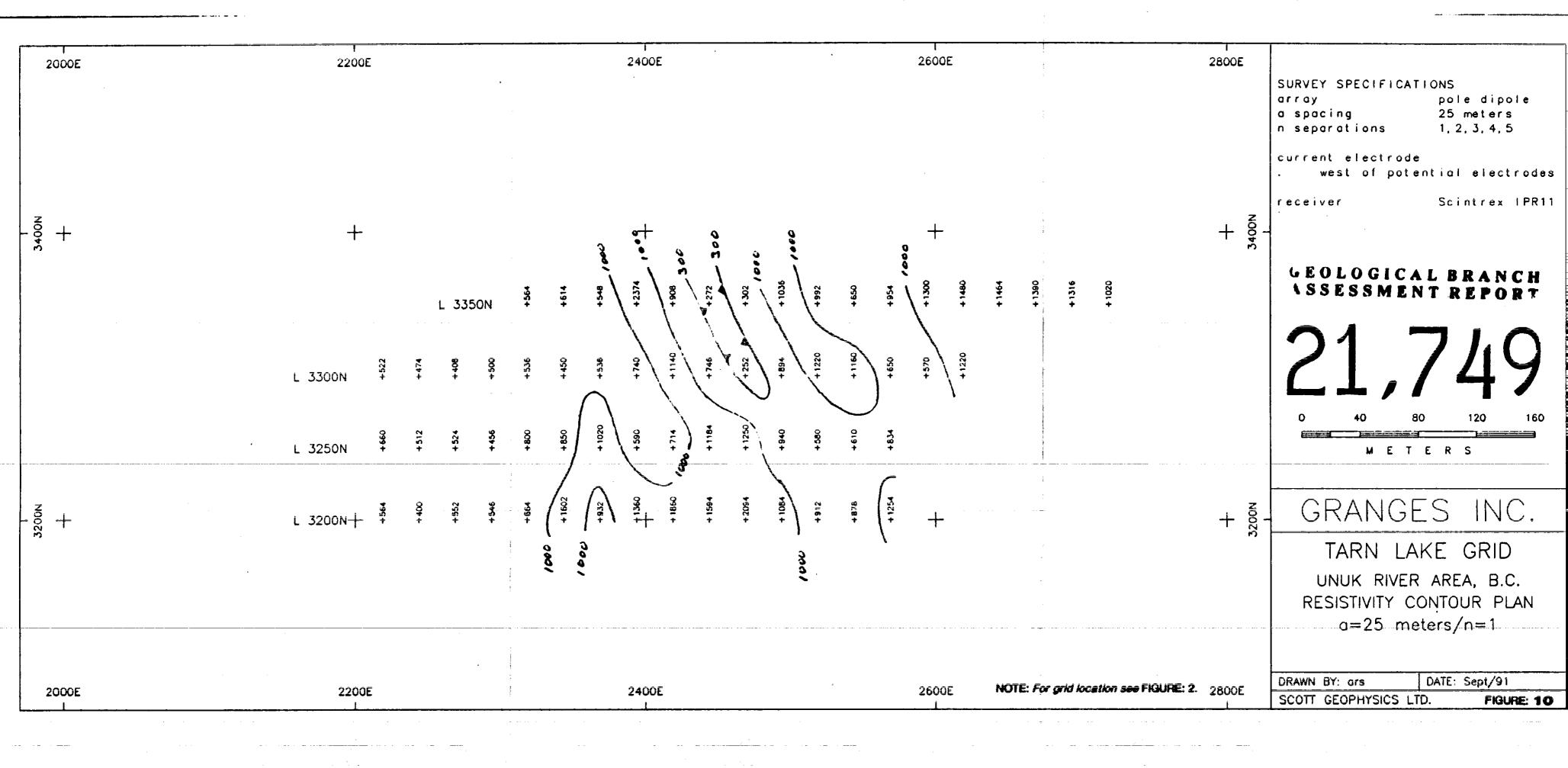
21/749

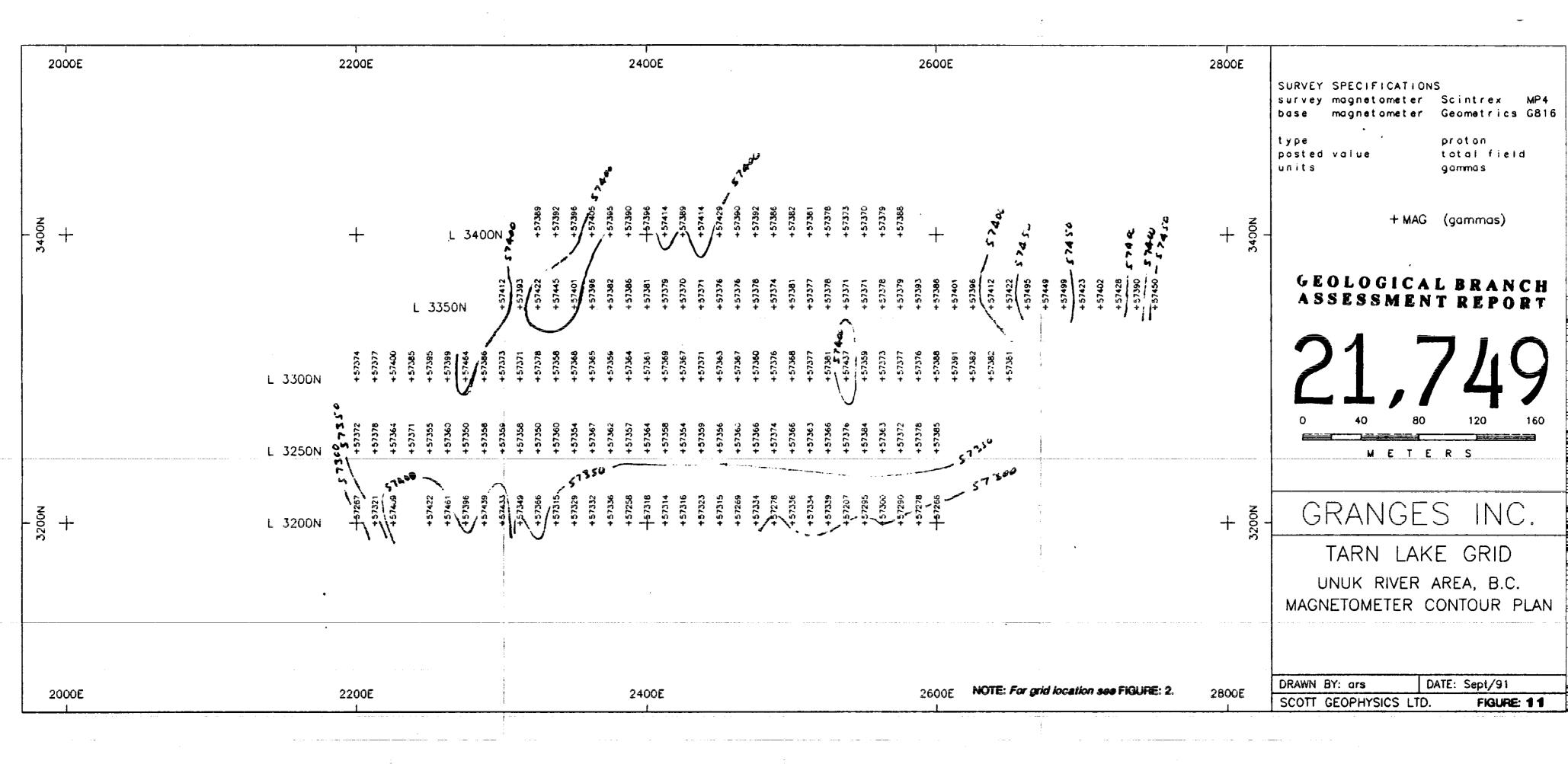
350E 375E

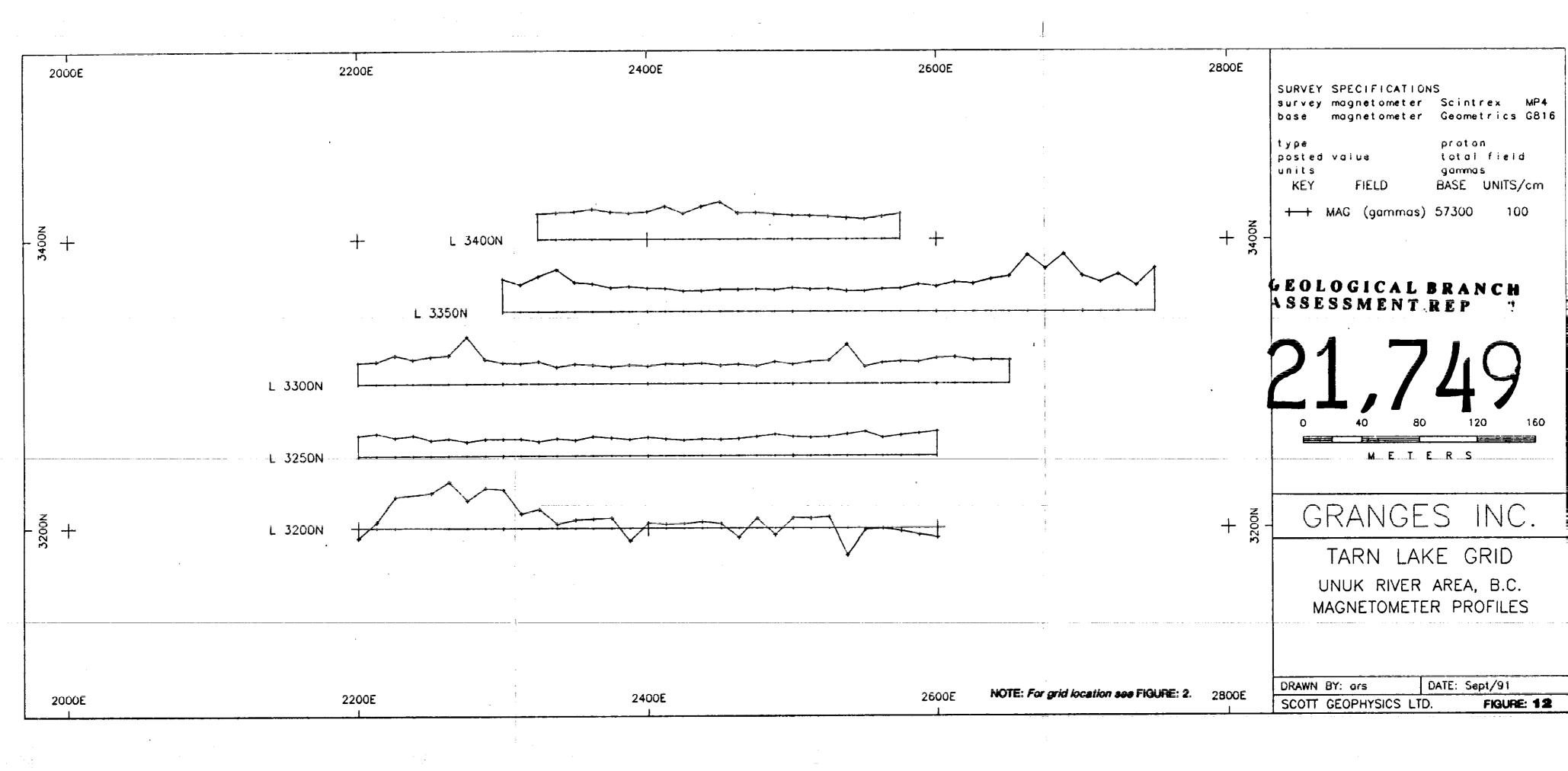
175E

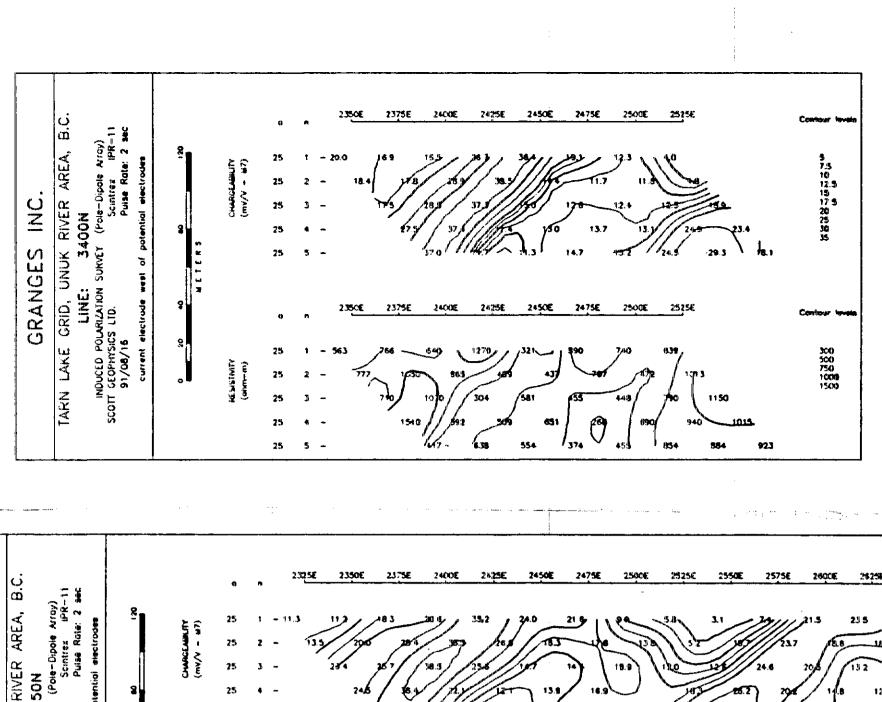
200E 225E

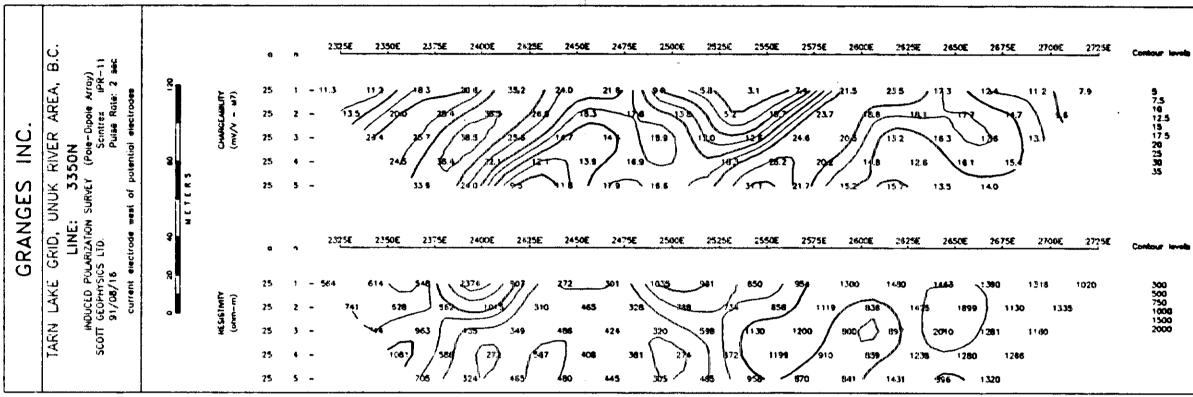


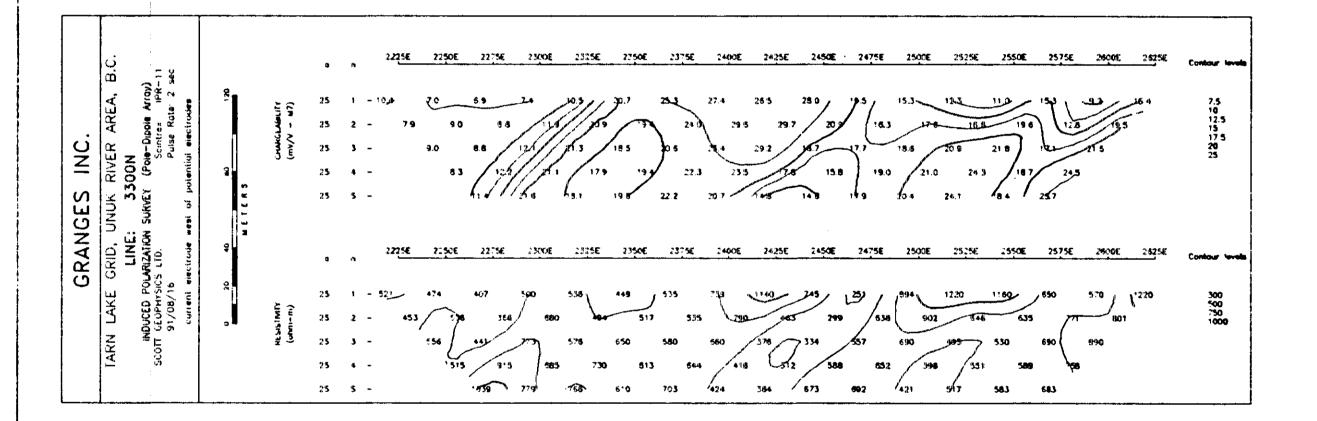


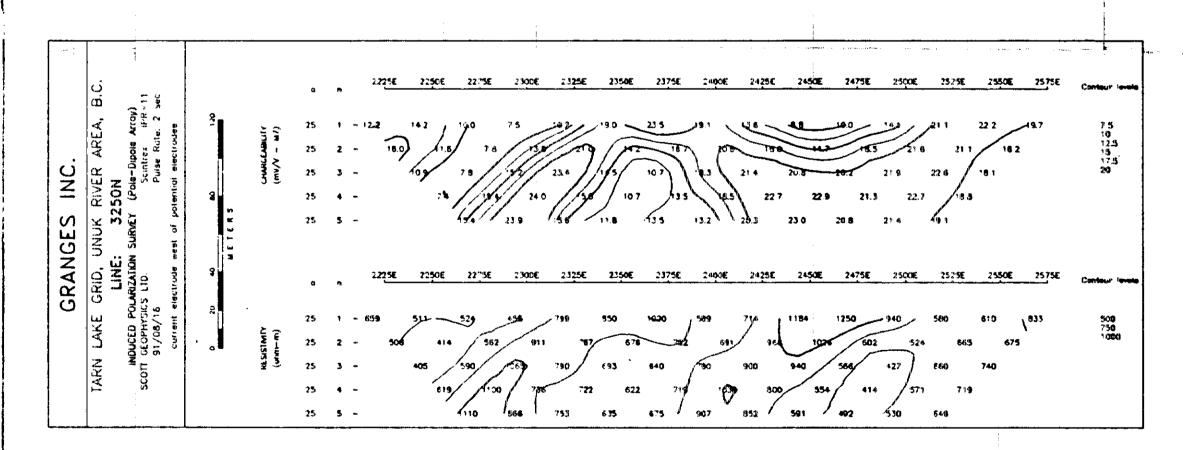


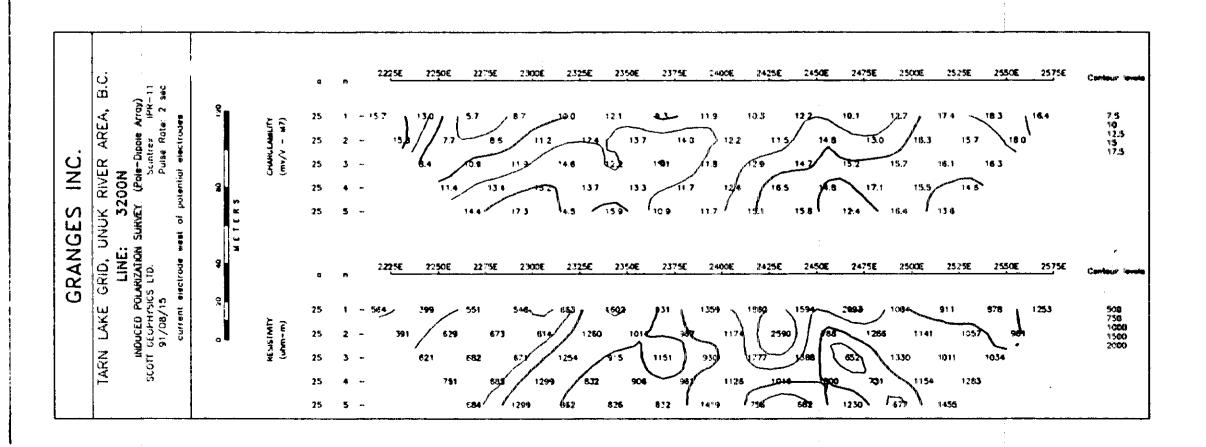












EULOGICAL BRANCH

21,749

NOTE: For grid location see FIGURE: 2.

FIGURE: 13