



42A11SW0079 42 JESSOP

010

DIAMOND DRILLING

TOWNSHIP: JESSOP TWP.

REPORT NO: 42

WORK PERFORMED FOR: Granges Exploration Ltd.

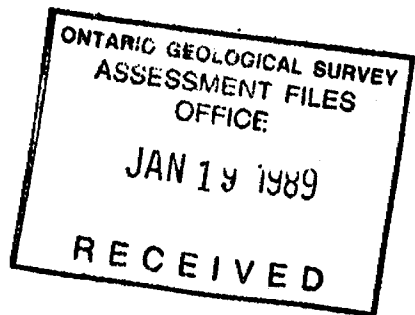
RECORDED HOLDER: Same as Above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
P 952183	B-1	116m	Sept/88	(1)
P 952169	B-2	122m	Sept/88	(1)
P 952174	B-3	123m	Sept/88	(1)
P 951940	B-4	164m	Sept/88	(1)
P 951896	B-5	110m <i>655m</i>	Sept/88	(1)

NOTES: (1) #W8906.007, filed Mar/89

GEOPHYSICAL SURVEYING & DIAMOND DRILLING
REPORT ON
P952183, P952169, P952174, P951940, P951896, ETC.

LOCATED IN
PORCUPINE MINING DIVISION
JESSOP TOWNSHIP
MAP #G-3984



HELD BY
GRANGES EXPLORATION LTD.
2300 - 885 WEST GEORGIA STREET
VANCOUVER, B.C.
V6C 3E8

NOVEMBER 1, 1988

A handwritten signature in black ink, appearing to read "G.W. Zbitnoff".

G.W. ZBITNOFF
(A.L. LAITE)



42A11SW0079 42 JESSOP

010C

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- CONTOURED MAGNETOMETER SURVEY, GRID 1
- CONTOURED MAGNETOMETER SURVEY, GRID 2
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- PLAN OF EM ANOMALIES & DIAMOND DRILLING,
(Re-interpretation of 1980 EM survey), GRID JESS 19

INTRODUCTION

Claim blocks P952183, P952169, P952174, P951940, P951896, etc. are situated in the Porcupine Mining District, within Jessop Township, northwest of the Timmins Airport. The most direct access to the claims is via helicopter transport to the north end of the NNE trending runway.

Geology

The host rock is a massive pillowed basalt which trends 90 degrees to 95 degrees and dips 65 degrees to 70 degrees to the north. These pillowed basalts probably belong to the Porcupine Group (Pyke, D.R., 1978, OGS Summary of Field Work).

GEOPHYSICAL SURVEYING

Magnetometer surveys were carried out on two grids, Grid 1 and Grid 2, using an EDA OMNI-IV magnetometer which measures the vertical component of the earth's magnetic field. Readings were corrected for diurnal variation by tie line looping (in tie mode) and readings were taken at 25 m contour intervals.

Max-Min horizontal loop surveys were also carried out on Grid 1 and Grid 2, using an Apex Parametrics Max-Min II instrument with 150 m coil separation at frequencies of 444 Kz and 888 Kz.

Both surveys were conducted and plotted by Exsics Exploration Ltd. of Timmins, Ontario, during May of 1988. Interpretation was done by M. Prew, geophysicist for Granges Exploration Ltd. Several anomalies found by the geophysical surveys warranted further exploration by diamond drilling.

DIAMOND DRILLING

A total of 5 diamond drill holes, B-1 to B-5, were drilled by Bradley Bros. Ltd. of Rouyn-Noranda, Quebec, under contract to Granges Exploration Ltd. Drilling was done from September 12 to September 23, 1988 for a total of 635 m (2083 ft.) Assaying of 193 core and sludge samples was done by TSL Laboratories of Timmins, Ontario. The drilling was supervised by Tod Keast, geologist for Granges Exploration Ltd.

No significant mineralization was found from the diamond drilling done in this program. No further work is anticipated on the property at this time.

STATEMENT OF QUALIFICATIONS
GEORGE W. ZBITNOFF
5160 CLIFF PLACE
DELTA, B.C.

Name: Zbitnoff, George William

Birth Date: August 15, 1938

Birthplace: Saskatoon, Saskatchewan

Graduated with Grade 12 matriculation from
Blaine Lake High School in 1955.

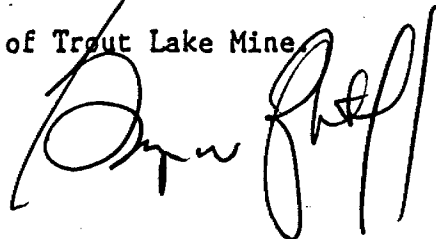
Graduated from University of Saskatchewan with a
B.A. (Geology and chemistry majors) in 1963.

Professional
Associations:

- Member of the Association of Professional Engineers of the Province of Manitoba.
- Member of the Association of Professional Engineers of the Province of British Columbia since 1973.
- Member of the Canadian Institute of Mining and Metallurgy.

Experience:

- Pre-graduation experience in geology with the Department of Mineral Resources of Saskatchewan.
- May 1962 - Two and one half years, field geologist with Hudson Bay Exploration and Development, Flin Flon area.
- January 1965 - Six years, field and resident geologist with Noranda Exploration Ltd., Flin Flon area.
- February 1971 - Twelve and one half years, Assistant Manager, Granges Exploration Aktiebolag in Vancouver, B.C.
- November 1983 to present - Vice President Exploration, Granges Exploration Ltd. in Vancouver, B.C.
- Active geological experience in all provinces of Canada and parts of the United States and Mexico.
- Participated in the discovery of Trout Lake Mine





TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT 2

TIMMINS, ONTARIO

P4N 7C3

TEL: (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 2nd Ave.
Timmins, Ontario
P4N 1G1
Attention: Mark Kreczmer

REPORT No.
W2164

INVOICE #: 1186
P.O.:

SAMPLE(S) OF CORE

Barestar 518

Au
ppb

B-1-21877	5
B-1-21878	5
B-1-21879	5
B-1-21880	5
B-1-21881	5
B-1-21882	5
B-1-21883	5
B-1-21884	10
B-1-21885	5
B-1-21886	5
B-1-21887	5
B-1-21888	5

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TIMMINS, ONTARIO

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 2nd Ave.
Timmins, Ontario
P4N 1G1
Att: M. Kreczmer

REPORT No.
W2170

SAMPLE(S) OF core

INVOICE #: 1195
P. O. :

T. Keast
518

	Au ppb	Zn ppm
B-2-21889	5	120
B-2-21890	5	65
B-2-21891	5	130
B-2-21892	<5	
B-2-21893	5	
B-2-21894	5	
B-2-21895	5	
B-2-21896	5	
B-2-21897	5	
B-2-21898	5	
B-2-21899	5	
B-2-21900	5	

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P4N 7C3

TEL: (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.

INVOICE #: 1193
P.O.:

SAMPLE(S) OF

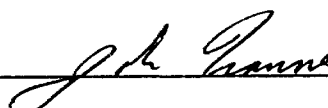
T. Keast
518

	Au ppb
B-2-22527	5
B-2-22528	5
B-2-22529	10
B-2-22530	10
B-2-22531	10
B-2-22532	5
B-2-22533	10
B-2-22534	10
B-2-22535	15

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SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2177

INVOICE #: 2001
P.O.:

SAMPLE(S) OF CORE

Todd Keast
518

	Au ppb	Au gpt
B-3-21901	5	<.20
B-3-21902	5	<.20
B-3-21903	5	<.20
B-3-21904	5	<.20
B-3-21905	5	<.20
B-3-21906	5	<.20
B-3-21907	5	<.20
B-3-21908	10	<.20
B-3-21909	5	<.20
B-3-21910	5	<.20
B-3-21911	5	<.20
B-3-21912	5	<.20
B-3-21913	5	<.20

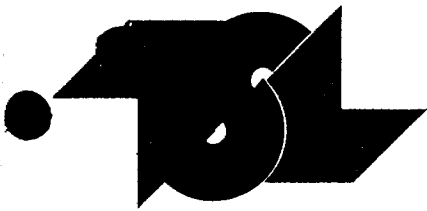
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TIMMINS, ONTARIO
P4N 7C3
TEL: (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2176

INVOICE #: 2011
P.O.:

SAMPLE(S) OF Sludges

Todd Keast
518

	Au ppb	Au gpt
B-3-22536	10	0.010
B-3-22537	5	0.005
B-3-22538	5	0.005
B-3-22539	10	0.010
B-3-22540	10	0.010
B-3-22541	10	0.010
B-3-22542	10	0.010
B-3-22543	10	0.010
B-3-22544	10	0.010
B-3-22545	15	0.015
B-3-22546	15	0.015
B-3-22547	15	0.015
B-3-22548	10	0.010
B-3-22549	10	0.010
B-3-22550	15	0.015
B-3-22551	10	0.010
B-3-22552	15	0.015
B-3-22553	10	0.010
B-3-22554	15	0.015
B-3-22555	10	0.010

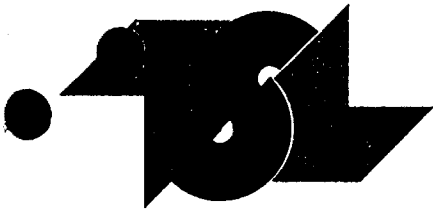
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168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2176

INVOICE #: 2011
P.O.:

SAMPLE(S) OF Sludges

Todd Keast
518

	Au ppb	Au gpt
B-3-22556	10	0.010
B-3-22557	20	0.020
B-3-22558	20	0.020
B-3-22559	20	0.020
B-3-22560	20	0.020

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P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2185

SAMPLE(S) OF core

INVOICE #: 2013
P.O.:

T. KEAST
518

	Au ppb	Au gpt	Ag ppm	Pb ppm	Zn ppm
21914	40	0.040			
21915	10	0.010			
21916	10	0.010			
21917	20	0.020			
21918	5	0.005			
21919	10	0.010			
21920	10	0.010	<.2	1	580
21921	15	0.015	<.2	3	290
21922	15	0.015	<.2	15	860
21923	10	0.010	<.2	1	33
21924	15	0.015	<.2	2	360
21925	10	0.010	<.2	1	320
21926	10	0.010	1.4	120	380
21927	15	0.015	0.2	11	350
21928	35	0.035	0.4	15	470
21929	30	0.030			
21930	370	0.370			
21931	110	0.110			

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TIMMINS, ONTARIO

P4N 7C3

TEL: (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM GRANGES EXPOLORATION LTD.
168 2nd Ave.
Timmins, Ontario
P4N 1G1
Attention: Mark Kreczmer

REPORT No.
W2165

INVOICE #: 1194
P. O.:

SAMPLE(S) OF sludges

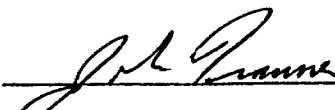
Barestar 518

	Au ppb
B-1-22506	55
B-1-22507	15
B-1-22508	15
B-1-22509	5
B-1-22510	5
B-1-22511	15
B-1-22512	20
B-1-22513	15
B-1-22514	5
B-1-22515	15
B-1-22516	5
B-1-22517	15
B-1-22518	25
B-1-22519	15
B-1-22520	5
B-1-22521	5
B-1-22522	5
B-1-22523	10
B-1-22524	15
B-1-22525	10

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TIMMINS, ONTARIO

P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM GRANGES EXPOLORATION LTD.
168 2nd Ave.
Timmins, Ontario
P4N 1G1
Attention: Mark Kreczmer

REPORT No.
W2165

INVOICE #: 1194
P.O.:

SAMPLE(S) OF sludges

Barestar 518

Au
ppb

5

B-1-22526

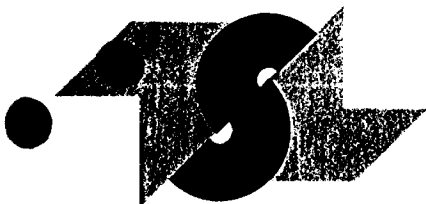
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2031 RIVERSIDE DRIVE, UNIT 2
TIMMINS, ONTARIO
P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2186

SAMPLE(S) OF sludge

INVOICE #: 2017
P.O.:

T. KEAST
518

	Au ppb	Au gpt
22561	10	0.010
22562	10	0.010
22563	10	0.010
22564	5	0.005
22565	5	0.005
22566	10	0.010
22567	5	0.005
22568	10	0.010
22569	5	0.005
22570	10	0.010
22571	10	0.010
22572	10	0.010
22573	5	0.005
22574	10	0.010
22575	10	0.010
22576	10	0.010
22577	5	0.005
22578	10	0.010
22579	5	0.005
22580	15	0.015

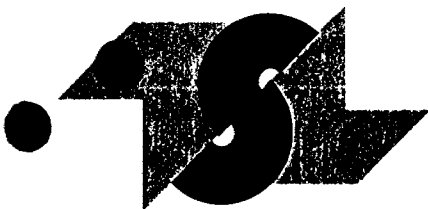
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2031 RIVERSIDE DRIVE, UNIT 2
TIMMINS, ONTARIO
P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2186

INVOICE #: 2017
P.O.:

SAMPLE(S) OF Sludge

T. KEAST
518

	Au ppb	Au gpt
22581	10	0.010
22582	10	0.010
22583	10	0.010
22584	10	0.010
22585	10	0.010
22586	10	0.010
22587	5	0.005
22588	10	0.010
22589	10	0.010
22590	15	0.015
22591	10	0.010
22592	20	0.020
22593	20	0.020
22594	20	0.020
22595	15	0.015
22596	50	0.050
22597	20	0.020

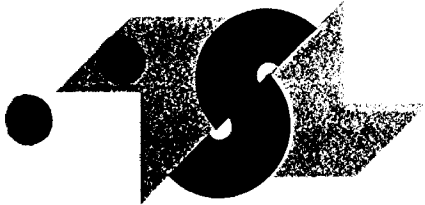
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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2202

INVOICE #: 2029
P.O.:

SAMPLE(S) OF CORE

T. Keast

	Au ppb	Au gpt	Cu ppm
FC-4 21855	10	0.010	120
FC-4 21856	10	0.010	100
FC-4 21857	5	0.005	60
FC-4 21858	10	0.010	200
FC-4 21859	10	0.010	130
FC-4 21860	5	0.005	63
FC-4 21861	5	0.005	110
FC-4 21862	5	0.005	140
FC-4 21863	5	0.005	180
FC-4 21864	5	0.005	160
FC-4 21865	10	0.010	90

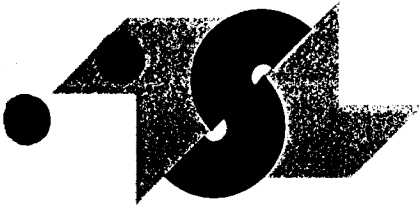
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2031 RIVERSIDE DRIVE, UNIT 2
TIMMINS, ONTARIO
P4N 7C3
TEL: (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2203

INVOICE #: 2030
P.O.:

SAMPLE(S) OF sludges

T. Keast

	Au ppb	Au gpt
FC-4 22620	10	0.010
FC-4 22621	10	0.010
FC-4 22622	10	0.010
FC-4 22623	15	0.015
FC-4 22624	15	0.015
FC-4 22625	10	0.010
FC-4 22726	10	0.010
FC-4 22727	10	0.010
FC-4 22728	15	0.015
FC-4 22729	10	0.010
FC-4 22730	15	0.015
FC-4 22731	15	0.015
FC-4 22732	10	0.010
FC-4 22733	10	0.010
FC-4 22734	10	0.010
FC-4 22735	10	0.010
FC-4 22736	10	0.010

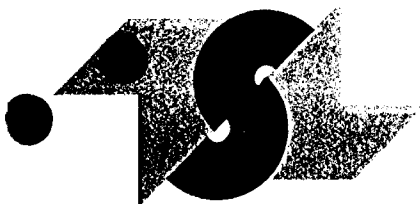
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2031 RIVERSIDE DRIVE, UNIT 2

TIMMINS, ONTARIO

P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2195

INVOICE #: 2022
P.O.:

SAMPLE(S) OF sludges

T. Keast
521

	Au ppb	Au gpt
B-5-22598	15	0.015
B-5-22599	10	0.010
B-5-22600	10	0.010
B-5-22601	20	0.020
B-5-22602	25	0.025
B-5-22603	30	0.030
B-5-22604	45	0.045
B-5-22605	10	0.010
B-5-22606	10	0.010
B-5-22607	15	0.015
B-5-22608	20	0.020
B-5-22609	25	0.025
B-5-22610	20	0.020
B-5-22611	20	0.020
B-5-22612	15	0.015
B-5-22613	15	0.015
B-5-22614	20	0.020
B-5-22615	10	0.010
B-5-22616	5	0.005
B-5-22617	10	0.010

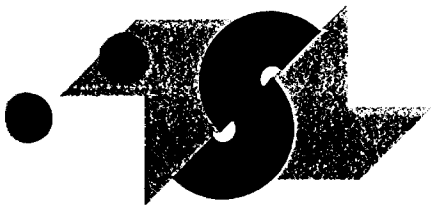
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Oct 06/88

SIGNED _____



For enquiries on this report, please contact Customer Service Department.
Samples, Pulps and Rejects discarded two months from the date of this report.



TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT 2
TIMMINS, ONTARIO
P4N 7C3

TEL: (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2195

INVOICE #: 2022
P.O.:

SAMPLE(S) OF sludges

T. Keast
521

	Au ppb	Au gpt
B-5-22618	5	0.005
B-5-22619	10	0.010

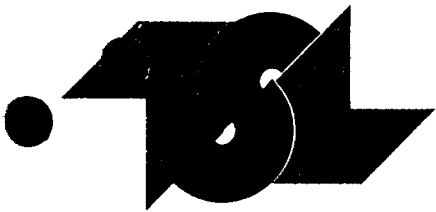
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TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT 2
TIMMINS, ONTARIO

P4N 7C3

TEL: (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2190

INVOICE #: 2016
P.O.:

SAMPLE(S) OF CORE

Todd Keast
518

Au
ppb

B-5-21932	<5
B-5-21933	5
B-5-21934	5
B-5-21935	5
B-5-21936	5
B-5-21937	5
B-5-21938	5
B-5-21939	5
B-5-21940	5
B-5-21941	5
B-5-21942	<5
B-5-21943	5
B-5-21944	5
B-5-21945	5

COPIES TO:
INVOICE TO: Timmins

Oct 03/88

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TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT 2
TIMMINS, ONTARIO
P4N 7C3

TEL: (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Granges Exploration Ltd.
168 Second Avenue
Timmins, Ontario
P4N 1G1
Att: Mark Kreczmer

REPORT No.
W2190

SAMPLE(S) OF CORE

INVOICE #: 2016
P.O.:

Todd Keast
518

Au
ppb

B-5-21932	<5
B-5-21933	5
B-5-21934	5
B-5-21935	5
B-5-21936	5
B-5-21937	5
B-5-21938	5
B-5-21939	5
B-5-21940	5
B-5-21941	5
B-5-21942	<5
B-5-21943	5
B-5-21944	5
B-5-21945	5

COPIES TO:
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Oct 03/88

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For enquiries on this report, please contact Customer Service Department.
Samples, Pulps and Rejects discarded two months from the date of this report.

BRADLEY BROS. LIMITED

RECEIVED
GRANGES EXPLORATION LTD.
SEP 28 1988
NOTED 518-00
[Signature]

September 15, 1988

CONTRACT DIAMOND DRILLING

Granges Exploration Limited
885 West Georgia Street, 23rd Floor
Vancouver, B.C. V6C 3E8

Invoice No. 1529-01

HOLE No.	TO COVER DIAMOND DRILLING FOR			September 1 to 15, 1988				
	FROM	TO	FOOTAGE COMPLETED					
	<u>Jessop Township</u>							
	Mobilization						\$2,000	00
B-1	0	15.00	15.00 metres	pipng	\$ 95.00	1,425	00	
	15.00	30.00	15.00 "	"	105.00	1,575	00	
	30.00	45.00	15.00 "	"	118.00	1,770	00	
	45.00	52.00	7.00 "	"	134.00	938	00	
	52.00	116.00	64.00 metres		95.00	6,080	00	
B-2	0	15.00	15.00 metres	pipng	95.00	1,425	00	
	15.00	30.00	15.00 "	"	105.00	1,575	00	
	30.00	45.00	15.00 "	"	118.00	1,770	00	
	45.00	52.00	7.00 "	"	134.00	938	00	
	52.00	122.00	70.00 metres		95.00	6,650	00	
	Casing left in hole							
	B-1 -							
	19 metres NW Casing						48.90	929 10
	1 NW Casing Shoe							280 00
	GS550 -							
	B-1 - 15 bags							
	B-2 - 19 "							
	34 bags						13.00	442 00
	Acid Test							
	B-1 - 116 metres - 1 test							80 00
	Cost to pull some casing							
	B-1 -							
	4 man hours						30.00	120 00
	2 machine hours						20.00	40 00

FORWARD

**BRADLEY
BROS.
LIMITED**

RECEIVED
GRANGES EXPLORATION LTD.
SEP 20 1988
NOTED _____

September 15, 1988

CONTRACT DIAMOND DRILLING

Granges Exploration Limited
885 West Georgia Street, 23rd Floor
Vancouver, B.C. V6C 3E8

Invoice No.1529-01

HOLE No.	September 1 to 15, 1988				
	TO COVER DIAMOND DRILLING FOR	FROM	TO		
	Cost to set up, maintain and pick up waterlines				
	B-1 - 1219 metres				
		6 man hours	\$30.00 - \$180.00		
		3 muskeg hours	50.00 - 150.00		
			<u>330.00</u>		
		Your Portion 319/1219 m.		86	36
	B-2 - 1219 metres				
		4 man hours	\$30.00 - \$120.00		
		2 muskeg hours	50.00 - 100.00		
			<u>220.00</u>		
		Your Portion 319/1219 m.		57	57
	Delay - August 15 -				
		8 man hours	\$30.00	240	00
		4 machine hours	20.00	80	00
		120 B Core Trays Supplied	5.50	660	00
				\$29,161	03
				\$28,616	03

Sept 30 / 88

To Bradley Bros. Limited

With regards to Invoice No. 1529-01

Please note that 22 core trays
were used not 120 as listed
on the invoice.

134 metres of coring = 440 ft.

$440 \div 20 = 22$ core trays

$22 \times 5.50 = \$ 121.00$

$666 - 121.00 = \$ 545$

Please note that \$ 545.00 will
be deducted from the
invoice

$$\begin{array}{r} 29,161.03 \\ - \quad 545.00 \\ \hline \$ 28,616.03 \end{array}$$

RECEIVED
GRANGES EXPLORATION LTD.
OCT 03 1988
NOTED _____

Jodd Keast

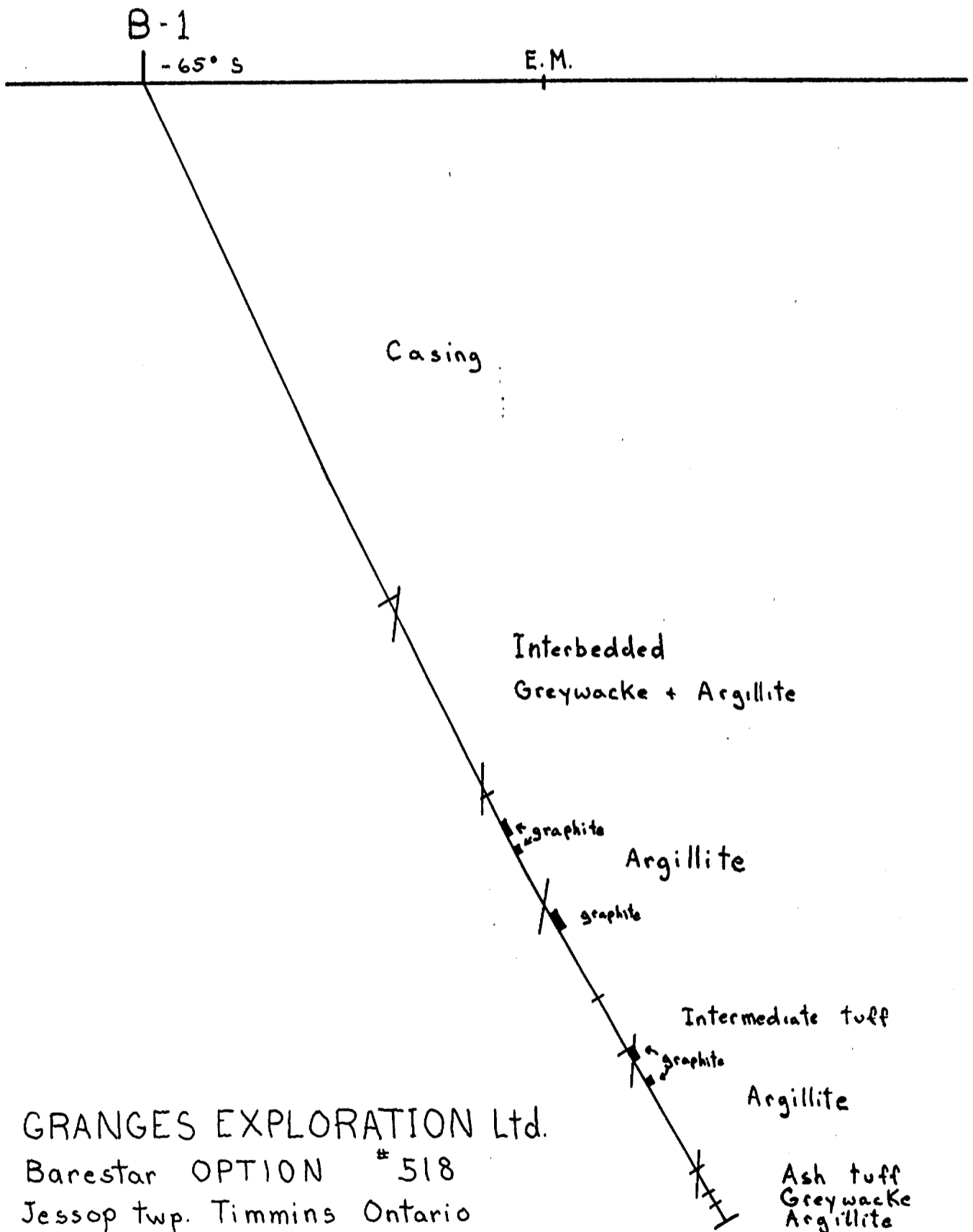
GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Page 2 / 2

Property Barestar Project No. 518 Depth 116 m Date Began Sept 12 / 88
 Hole No. B-1 Co ord. 8+00 W Horizontal Length 53.02 m Date Completed Sept 14 / 88
 Claim No. P 952183 0+73 S Core Size B.g. Drilled By Bradley Bros. Ltd.
 Grid No. _____ Angle & Grid Direction -65° Grid S Elevation _____ Logged By T. KEAST

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD				Au G/T	Ag G/T	Cu %	Zn %
		FROM	TO	SAMPLE	WIDTH				
				Sludge					
		0	52.00	Waste	52.00	-			
92.96 - 98.81	Intermediate tuft	52.00	56.00	22506	4.00	.06			
		56.00	59.00	22507	3.00	.02			
	Grey green medium grained	59.00	62.00	22508	3.00	.02			
	10-15% angular felsic fragments	62.00	65.00	22509	3.00	tr			
	up to 2cm in size. fragments	65.00	68.00	22510	3.00	tr			
	weakly elongated parallel to bedding.	68.00	71.00	22511	3.00	.02			
	15-20% biotite in fine grained matrix	71.00	74.00	22512	3.00	.02			
	5-10% carbonate veinlets parallel bedding	74.00	77.00	22513	3.00	.02			
	Py 1% 3-5 mm cubes	77.00	80.00	22514	3.00	tr			
	- 94.60 - 94.85 Qtz - Carbonate vein	80.00	83.00	22515	3.00	.02			
	tr - 1% py disseminated	83.00	86.00	22516	3.00	tr			
	1% pyrrhotite blebs	86.00	89.00	22517	3.00	.02			
		89.00	92.00	22518	3.00	.03			
98.81 - 110.45	Argillite	92.00	95.00	22519	3.00	.02			
	As before	95.00	98.00	22520	3.00	tr			
	- 98.81 - 99.10 60-70% graphite, very	98.00	101.00	22521	3.00	tr			
	strong conductor	101.00	104.00	22522	3.00	tr			
	- 101.44 - 101.64 Includes two 3-4 cm	104.00	107.00	22523	3.00	.01			
	wide pyrite bands containing 20-25%	107.00	110.00	22524	3.00	.02			
	fine grained pyrite. Strong conductors	110.00	113.00	22525	3.00	.01			
	- 107.20 - 107.50 50% Qtz Carb veins tr py,	113.00	116.00	22526	3.00	tr			
	tr pyrrhotite								
110.45 - 112.70	Ash tuft								
	Dark black fine grained with 5% white								
	angular felsic 1-3 mm ash size								
	fragments. 2-3% carbonate veinlets.								
				* Acid test at 116m -60° S					
112.70 - 113.16	Grey wacke			* Casing Pulled					
	as before								
	Sharp upper contact displays soft sediment								
	deformation.								
113.16 - 116.00	Argillite								
	as before								
	E.O.H.								



GRANGES EXPLORATION Ltd.
 Barestar OPTION # 518
 Jessop twp. Timmins Ontario
 8+00 W 0+73 S
 Looking Grid East
 Scale 1:500

E.O.H. 116 m



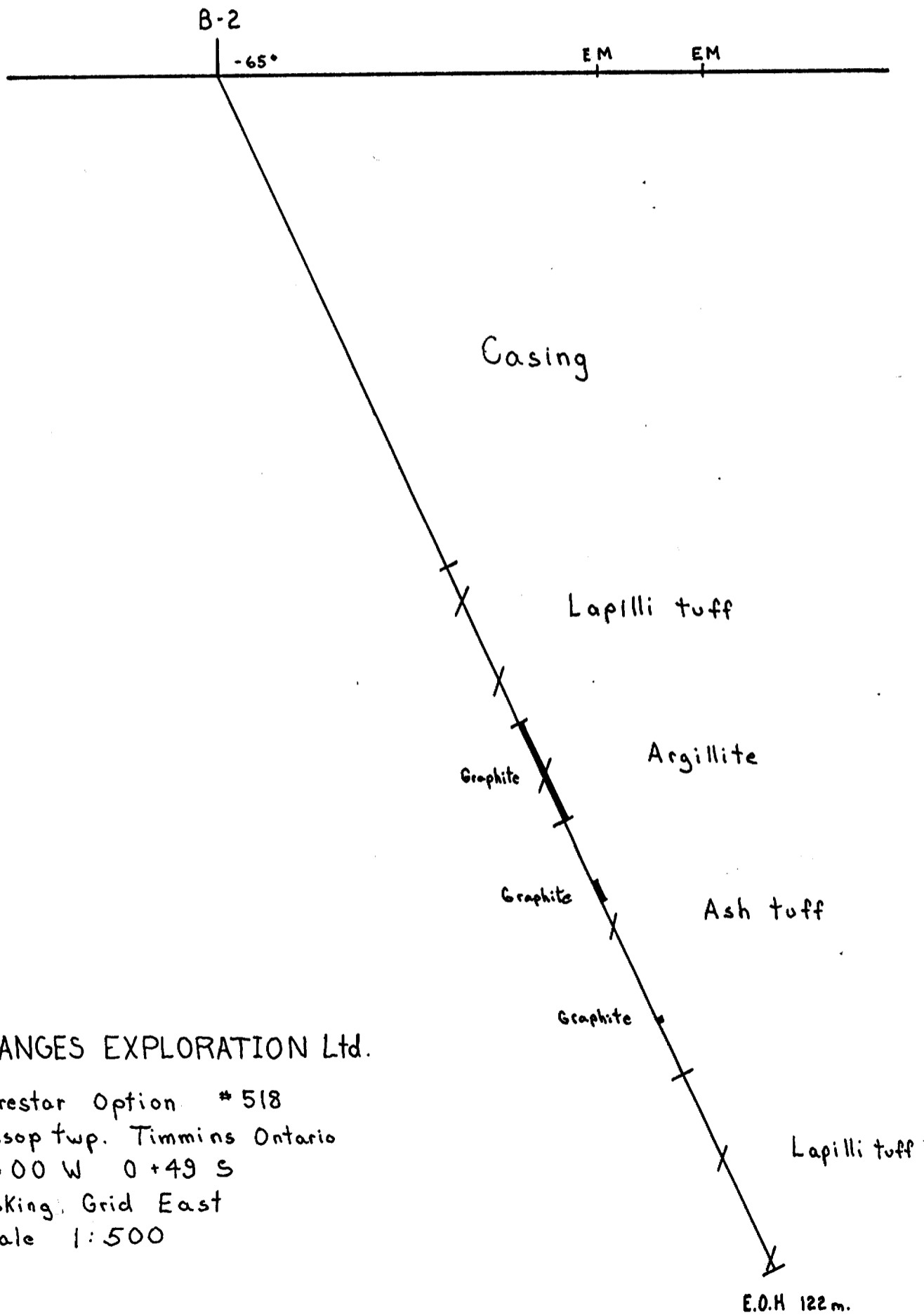
**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

ANOMALY:

Page 2 of 2

Property Barestar Project No. 518 Depth 122 m Date Began Sept 14 1988
 Hole No. B-2 Co ord. 13+00 W Horizontal Length _____ Date Completed Sept 16 1988
 Claim No. P 952169 _____ 0+49 S Core Size B.g Drilled By Bradley Bros. Ltd.
 Grid No. _____ Angle & Grid Direction -65° Grid S Elevation _____ Logged By T. Keast

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD				Au G/T	Ag G/T	Cu %	Zn %
		FROM	TO	SAMPLE	WIDTH				
75.83-101.82	Ash tuft								
			Sludge						Geochem
		0	52.00	Waste	52.00	-			
	- Dark black very fine grained	52.00	56.00	22527	4.00	tr			
	- 3-5% 1-2mm Quartz feldspar fragments,	56.00	59.00	22528	3.00	tr			
	sub angular, non oriented, weak bedding	59.00	62.00	22529	3.00	.01			
	- 1% Pyrite cubes 1-4mm 15-20% graphite throughout	62.00	65.00	22530	3.00	.01			
	- 79.20-79.28 Broken Blockey Core Lost Water	65.00	68.00	22531	3.00	.01			
	Return.	68.00	71.00	22532	3.00	tr			
	- 81.82-83.78 40-50% graphite, moderate	71.00	74.00	22533	3.00	.01			
	conductor.	74.00	77.00	22534	3.00	.01			
	- 88.66-88.82 Grey-blue Qtz vein	77.00	80.00	22535	3.00	.02			
	10-15% sericite wisps tr. py	80.00	122.00	Waste	42.00				
	- 95.92-96.15 60-70% graphite Broken			E.O.H					
	blockey core, soft. Strong Conductor.	* 79.20		Lost	Water				
101.82-122.00	Lapilli tuft (Intermediate)								
	Dark green, fine - medium grained								
	5-7% 1-4mm angular elongate								
	cherty fragments Qtz chlorite matrix								
	Carbonate veinlets 3-5% Trace Pyrite								
	throughout.								
	- 106.80-107.00 60% Blue grey Qtz Sericite								
E.O.H	vein Py 2-3%								
	CORE Angles								
	53.40m 50° Bedding								
	61.10m 45° Bedding								
	71.10m 45° Bedding								
	86.00m 40° Bedding								
	110.36m 45° Bedding								
	121.35m 45° Bedding								
	* Casing pulled, No Acid test								



GRANGES EXPLORATION Ltd.

Barestar Option # 518
 Jessop twp. Timmins Ontario
 13+00 W 0+49 S
 Looking Grid East
 Scale 1:500



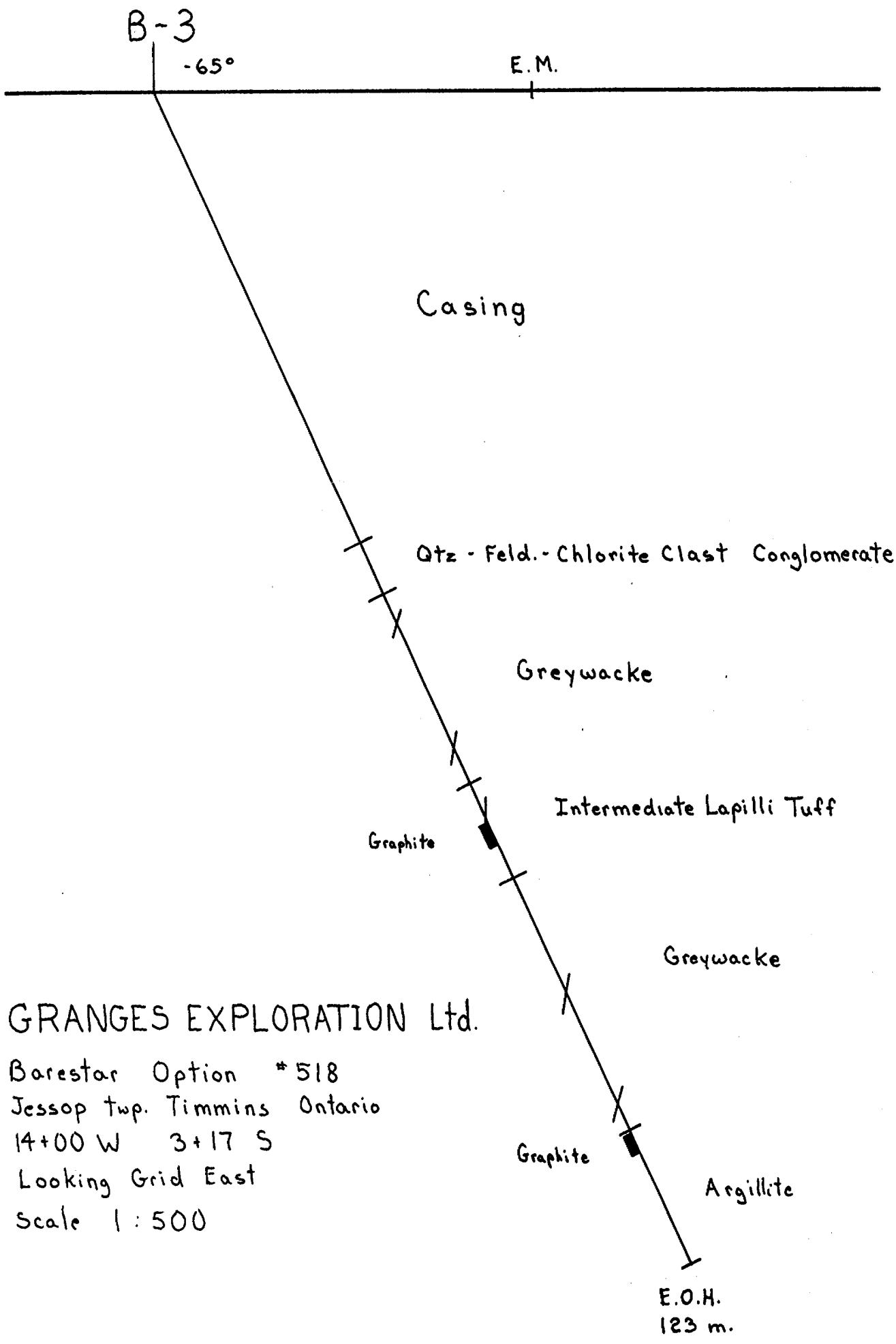
GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Page 1 of 2

Property Barestar Option Project No. 518 Depth 123.00 m Date Began Sept 16, 88
 Hole No. B-3 Co ord. 14+00 W Horizontal Length 51.80 m Date Completed Sept 20, 88
 Claim No. P 952174 3+17 S Core Size Bg Drilled By Bradley Bros. Ltd.
 Grid No. _____ Angle & Grid Direction -65° Grid S Elevation _____ Logged By T. Keast

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD				Au G/T	Ag G/T	Cu %	Zn %
		FROM	TO	SAMPLE	WIDTH				
				Core					Geochem
0 - 47.00	Casing	0	47.00	Waste	47.00	—			
47.00 - 52.40	Quartz Feldspar Chlorite Clast Conglomerate	47.00	48.00	21901	1.00	tr.			
	White - grey medium - coarse grained	48.00	49.00	21902	1.00	tr.			
	Weak bedding - foliation	49.00	50.00	21903	1.00	tr.			
	15-20% Qtz Feld clasts up to 1cm in diameter sub rounded	50.00	51.00	21904	1.00	tr.			
	2-5% Chlorite clasts up to 3cm in diameter sub rounded. Clasts are not preferentially oriented. Fine grained Qtz Sericite matrix.	51.00	52.00	21905	1.00	tr.			
	trace pyrite, trace magnetite	52.00	53.00	21906	1.00	tr.			
	-48.00 - 49.00, 0.6m ground core.	53.00	93.05	Waste	40.05	—			
		93.05	93.80	21907	0.75	tr.			
		93.80	94.55	21908	0.75	tr.			
		94.55	95.40	21909	0.85	tr.			
		95.40	96.15	21910	0.75	tr.			
		96.15	109.50	Waste	13.35	tr.			
		109.50	110.25	21911	0.75	tr.			
52.40 - 72.27	Greywacke	110.25	111.00	21912	0.75	tr.			
	Green grey - dark massive	111.00	111.75	21913	0.75	tr.			
	5% Dark grey fine grained laminations - beds rare < 1% black 5-1cm clasts oriented parallel to bedding	111.75	123.00	Waste	11.25	—			
	2-3% Qtz Carbonate veinlets 5cm wide			E.O.H					
	1% carbonate dissolution Uugs								
72.27 - 82.02	Intermediate Lapilli tuft								
	Green - grey Fragmental								
	3-5% 1-4mm felsic white angular fragments. Oriented parallel bedding.								
	1% Black (argillite) rock fragments up to 6cm in size sub angular.								
	rare < 1% fine grained black laminations, bedding								
	2% Qtz Carbonate veinlets up to 1cm wide								
	-76.11 - 78.45 52m ground core								
	10-20% graphite moderate conductor								



GRANGES EXPLORATION Ltd.
 Barestar Option #518
 Jessop twp. Timmins Ontario
 14+00 W 3+17 S
 Looking Grid East
 Scale 1:500



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Page 1 of 3

Property Barestar Option Project No. 518 Depth 164.00 m Date Began Sept. 20, 88.
 Hole No. B-4 Co ord. 23+00W Horizontal Length Date Completed Sept. 22, 88.
 Claim No. P 951940 2+4.9 S Core Size Bg Drilled By Bradley Bros. Ltd.
 Grid No. Angle & Grid Direction -65 Grid S Elevation Logged By T. Keast

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD				Au G/T	Ag G/T	Cu %	Zn %
		FROM	TO	SAMPLE	WIDTH				
0 - 52.00	Casing	0	55.51	Waste	55.51	-			
		55.51	56.24	21914	0.73	.04			
		56.24	56.52	21915	0.28	.01			
52.00 - 62.31	Intermediate - felsic Lapilli Tuff	56.52	57.27	21916	0.75	.01			
		57.27	122.72	Waste	6545	-			
	White - grey medium grained weak foliation	122.72	123.47	21917	0.75	.02			
	5-10% white felsic fragments up to 6mm	123.47	123.77	21918	0.30	tr			
	in size. Fragments oriented parallel to	123.77	124.48	21919	0.75	.01			
	foliation. Qtz Chlorite matrix	124.48	138.73	Waste	14.25	.01			
	-52.00 - 53.65 Broken Blocky Core	138.73	139.48	21920	0.75	.02			
	-56.24 - 56.52 20-25% Qtz veins	139.48	140.00	21921	0.52	.02			
	-61.66 2mm wide grey-black laminations	140.00	140.50	21922	0.50	.01			
	-Chlorite content increasing up to 20%	140.50	141.00	21923	0.50	.01			
	downhole	141.00	141.50	21924	0.50	.02			
	-1% py throughout	141.50	142.00	21925	0.50	.01			
		142.00	142.50	21926	0.50	.01			
		142.50	143.23	21927	0.73	.02			
62.31 - 73.60	Ash tuff	143.23	144.00	21928	0.77	.04			
		144.00	156.25	Waste	1225	-			
	Dark Black fine grained	156.25	157.00	21929	0.75	.03			
	1-3% 1-2mm white ash size fragments	157.00	157.50	21930	0.50	.37			
	1% carbonate veinlets 1-5mm wide	157.50	158.25	21931	0.75	.11			
	10-15% graphite poor-moderate conductor	158.25	164.00	Waste	5.75	-			
	Py tr - 1%								
73.60 - 84.51	Greywacke								
	Green - Dark grey massive to weakly bedded								
	1-2% py 3-5mm cubes								
	1-2% carbonate veinlets								
84.51 - 139.48	Ash + Lapilli Tuff								
	Grey Green weakly bedded								

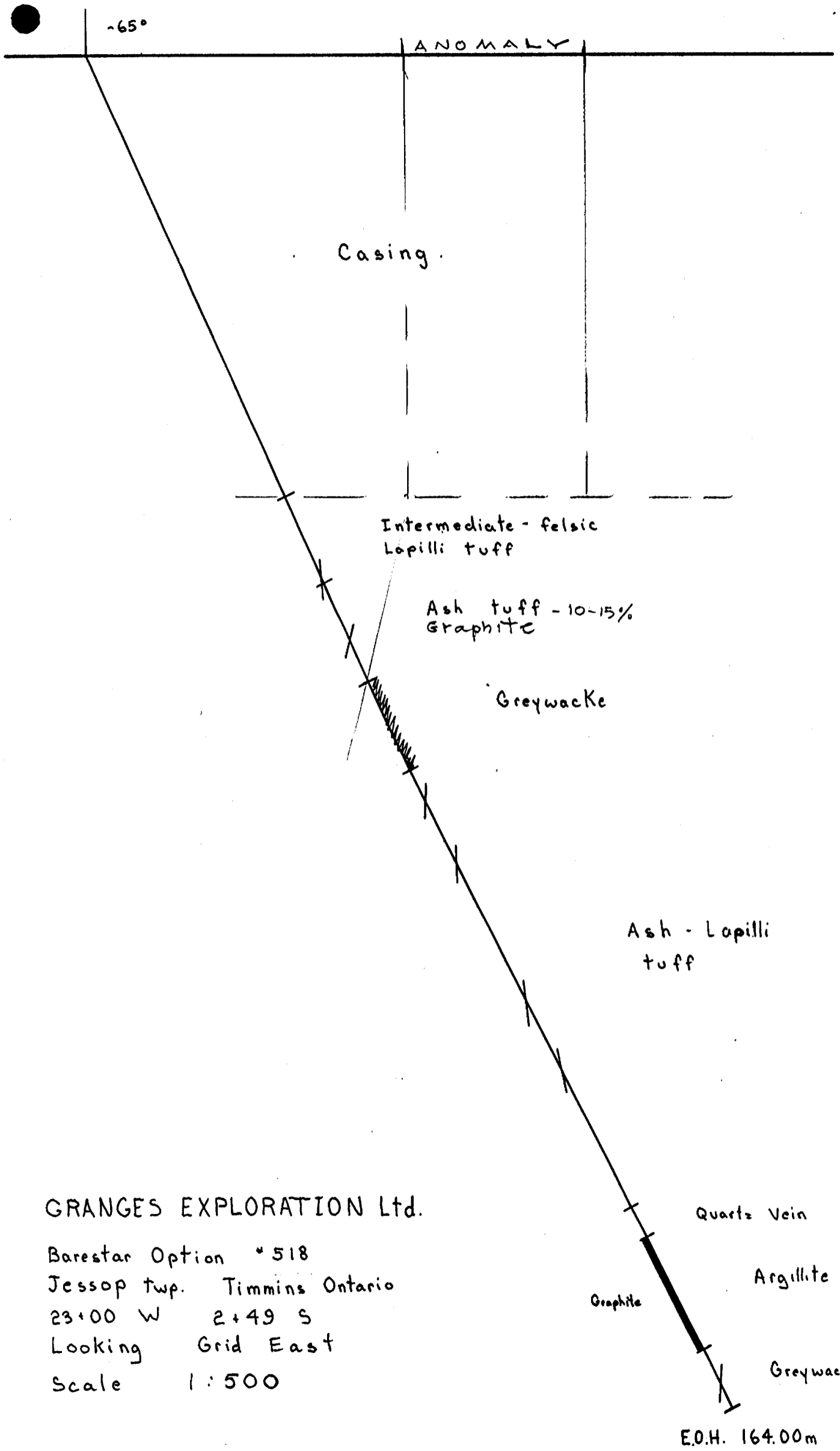

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG
ANOMALY:

 Page 2 of 3

 Property Barestar Option Project No. 518 Depth 164.00 m Date Began Sept 20, 88
 Hole No. B-4 Co ord. 23+00 W Horizontal Length Date Completed Sept 22, 88
 Claim No. P 951940 2+49 S Core Size Bg Drilled By Bradley Bros. Ltd.
 Grid No. Angle & Grid Direction -65° Grid S Elevation Logged By T. Keast

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD				Au G/T	Ag G/T	Cu %	Zn %
		FROM	TO	SAMPLE	WIDTH				
				Sludge					
	5-7% 1-3mm felsic fragments fragment size increases to 3-6mm down hole	0	52.00	Waste	52.00	—			
	-123.47 - 123.77 80% white Qtz vein Tr. py	52.00	56.00	22561	4.00	.01			
	-135.20 - 135.80 Black 3-5cm rock fragments sub angular, non oriented.	56.00	59.00	22562	3.00	.01			
		59.00	62.00	22563	3.00	.01			
		62.00	65.00	22564	3.00	tr			
		65.00	68.00	22565	3.00	tr			
139.48 - 143.23	Quartz Vein	68.00	71.00	22566	3.00	.01			
		71.00	74.00	22567	3.00	tr			
	Milky white with 5-7% graphite stringers and fragments	74.00	77.00	22568	3.00	.01			
	Brecciated at upper and lower contact	77.00	80.00	22569	3.00	tr			
	1% chlorite Sericite stringers.	80.00	83.00	22570	3.00	.01			
	-141.02 1% Py, tr sphal, tr galena	83.00	86.00	22571	3.00	.01			
	-141.51 1% Py, tr sphal	86.00	89.00	22572	3.00	.01			
	-142.33 1% Py, tr sphal, tr galena	89.00	92.00	22573	3.00	tr			
	1% pyrite through entire vein.	92.00	95.00	22574	3.00	.01			
		95.00	98.00	22575	3.00	.01			
		98.00	101.00	22576	3.00	.01			
		101.00	104.00	22577	3.00	tr			
143.23 - 157.27	Graphitic Argillite	104.00	107.00	22578	3.00	.01			
		107.00	110.00	22579	3.00	tr			
	Black, soft bedded	110.00	113.00	22580	3.00	.005			
	40-50% graphite, strong conductor	113.00	116.00	22581	3.00	.01			
	2-3% pyrite	116.00	119.00	22582	3.00	.01			
	3-5% carbonate veinlets	119.00	122.00	22583	3.00	.01			
	-157.00 - 157.13 85% white Qtz vein	122.00	125.00	22584	3.00	.01			
	3-5% py	125.00	128.00	22585	3.00	.01			
	-157.13 - 157.40 Dark graphitic bands with 10-15% pyrite	128.00	131.00	22586	3.00	.01			
		131.00	134.00	22587	3.00	tr			
		134.00	137.00	22588	3.00	.01			
157.27 - 164.00	Greywacke	137.00	140.00	22589	3.00	.01			
		140.00	143.00	22590	3.00	.015			
E.O.H	Green-Gray Massive	143.00	146.00	22591	3.00	.01			
	As before.	146.00	149.00	22592	3.00	.02			
		149.00	152.00	22593	3.00	.02			
		152.00	155.00	22594	3.00	.02			
		155.00	158.00	22595	3.00	.01			
		158.00	164.00	22596	3.00	.05			

B-4



GRANGES EXPLORATION Ltd.

Barestar Option *518
Jessop twp. Timmins Ontario
23+00 W 2+49 S
Looking Grid East
Scale 1:500

Graphite

Quartz Vein

Argillite

Greywacke

E.O.H. 164.00m


GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG
ANOMALY:

Page 1 of 2

 Property Barestar Option Project No. 518 Depth 110 m Date Began Sept 22 88
 Hole No. B-5 Co ord. 31+00W Horizontal Length Date Completed Sept 23 88
 Claim No. P 951896 7+95 S Core Size Bg Drilled By Bradley Bros Ltd.
 Grid No. Angle & Grid Direction -65° Grid S Elevation Logged By T. Keast

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD				Au G/T	Ag G/T	Cu %	Zn %
		FROM	TO	SAMPLE	WIDTH				
				Core					
0 - 43.00	Casing	0	44.00	Waste	44.00	-			
		44.00	45.00	21932	1.00	tr			
		45.00	46.00	21933	1.00	tr			
43.00 - 54.88	Quartz Feldspar Lapilli Tuff	46.00	47.00	21934	1.00	tr			
		47.00	48.00	21935	1.00	tr			
	Grey-white weakly bedded	48.00	49.00	21936	1.00	tr			
	15-20% 1-5mm angular Quartz Feldspar	49.00	50.00	21937	1.00	tr			
	fragments. Fine grained Qtz-chlorite	50.00	51.00	21938	1.00	tr			
	matrix with 10-15% Sericite, Local	51.00	52.00	21939	1.00	tr			
	Qtz-sericite beds up to 20 cm wide	52.00	53.00	21940	1.00	tr			
	2-3% 1-2mm rusty pits, carbonate	53.00	54.00	21941	1.00	tr			
	concretion dissolution.	54.00	55.00	21942	1.00	tr			
	-53.90 - 54.00 Qtz Sericite bed	55.00	79.31	Waste	24.31	-			
	with tr pyrite tr fucsite.	79.31	80.06	21943	0.75	tr			
		80.06	80.84	21944	0.75	tr			
		80.84	81.59	21945	0.75	tr			
54.88 - 65.53	Argillite	81.59	110.00	Waste	28.41	-			
	Dark Black, 3-5% laminations			E.O.H					
	Carbonate veinlets 1-2%								
	< 1% py cubes + blebs up to 1cm								
	Graphite content 20-30%								
	moderate conductor	*	Core	Angles					
			55.18m	25-30°	bedding				
			61.52m	25°	bedding				
			74.20m	30°	bedding				
			106.30m	30°	foliation				
65.53 - 74.02	Lapilli Tuff								
	White-grey non foliated, non bedded								
	White felsic clasts 20-25% up to 7mm								
	in diameter sub angular, 3-5%								
	black angular fragments up to 1cm.	*	Acid	test					
	No preferential orientation to fragments		110m	-55°					
	fine grained quartz chlorite matrix								
	non mineralized								
	-71.72 - 71.98 75-80% rounded 2cm	*	Casing	pulled					
	felsic rock fragments - conglomerate.								

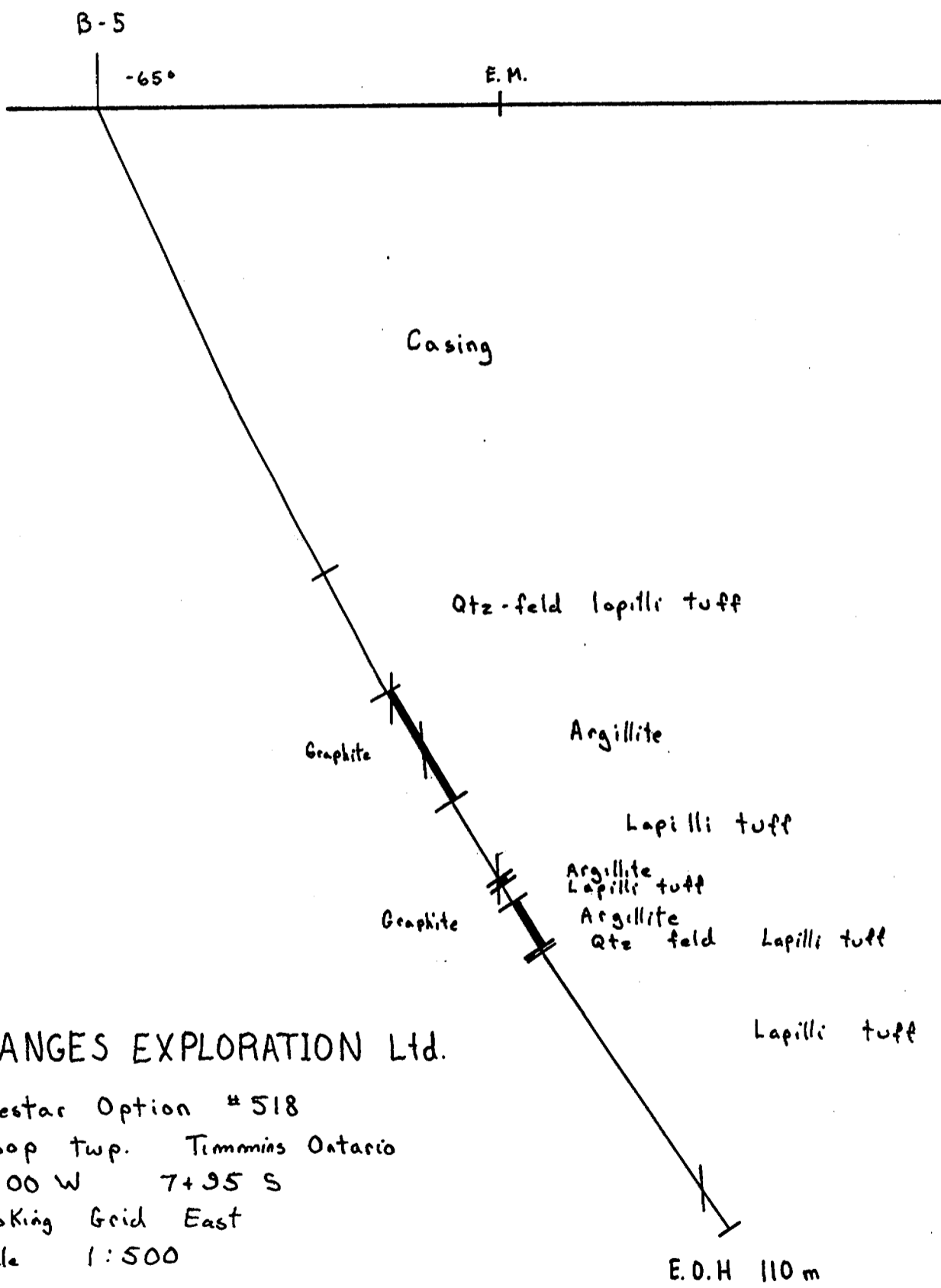
GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Page 2 of 2

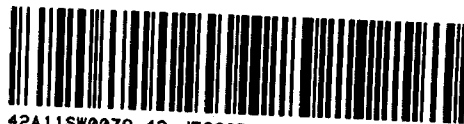
Property Barestar Option Project No. 518 Depth 110.00m Date Began Sept 22 88
 Hole No. B-5 Co ord. 31+00W Horizontal Length _____ Date Completed Sept 23 88
 Claim No. P 951896 7+955 Core Size Bg Drilled By Bradley Bros. Ltd.
 Grid No. _____ Angle & Grid Direction -65° Grid S Elevation _____ Logged By T. Keast

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD				Au G/T	Ag G/T	Cu %	Zn %
		FROM	TO	SAMPLE	WIDTH				
				Sludge					
74.02 - 74.83	Argillite	0	43.	Waste	43.00	—			
	Black thin beds + laminations	43.00	47.00	22598	4.00	.015			
	3-5% carbonate veinlets	47.00	50.00	22599	3.00	.010			
	10-20% graphite weak conductor	50.00	53.00	22600	3.00	.010			
	1-2% py	53.00	56.00	22601	3.00	.020			
		56.00	59.00	22602	3.00	.025			
		59.00	62.00	22603	3.00	.030			
74.83 - 76.41	Lapilli tuff	62.00	65.00	22604	3.00	.045			
	as above	65.00	68.00	22605	3.00	.010			
		68.00	71.00	22606	3.00	.010			
		71.00	74.00	22607	3.00	.015			
		74.00	77.00	22608	3.00	.020			
76.41 - 80.06	Argillite	77.00	80.00	22609	3.00	.025			
	Black, weakly laminated 3-5%	80.00	83.00	22610	3.00	.020			
	3-5% carbonate veinlets	83.00	86.00	22611	3.00	.020			
	10-20% graphite weak conductor	86.00	89.00	22612	3.00	.015			
	Py 1-2% to Hematite	89.00	92.00	22613	3.00	.015			
	Brecciated at lower contact	92.00	95.00	22614	3.00	.020			
		95.00	98.00	22615	3.00	.010			
		98.00	101.00	22616	3.00	.005			
80.06 - 80.84	Quartz Feldspar Lapilli tuff	101.00	104.00	22617	3.00	.010			
	3-5% Quatz - Feldspar fragments (3-5mm) sub rounded	104.00	107.00	22618	3.00	.005			
	in Qtz - Sericite (30-40%) matrix.	107.00	110.00	22619	3.00	.010			
	3-5% 2mm grey quartz stringers			E.O.H.					
80.84 - 110.00	Lapilli tuff								
E.O.H.	Green grey weakly bedded non foliated								
	3-5% angular 1-9mm felsic fragments								
	1-2% Carbonate veinlets								



GRANGES EXPLORATION Ltd.

Barestar Option # 518
 Jessop twp. Timmins Ontario
 31+00 W 7+95 S
 Looking Grid East
 Scale 1:500



Mining Act

Expenditures Page 1 of 4

Name and Postal Address of Recorded Holder: **GRANGES EXPLORATION LTD.**
 2300 - 885 WEST GEORGIA ST., VANCOUVER, BC V6L 3E8 JESSOP

Prospector's Licence No.: **71970**

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 2081 (480)	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	P	951908	20	P	951679	20	P	951920	20
		951907	20		951676	20		951925	20
		951906	20		951675	20		951914	20
		951904	20		951919	20		951917	20
		951929	20		951926	20		951921	20
		951930	20		951678	20		951924	20
		951937	20		951677	20		951915	20
		951887	20		951918	20		951916	20

All the work was performed on Mining Claim(s): **952183 + 952169**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

DDH# B-1 380' (116m) claim 952183
 DDH# B-2 400' (122m) claim 952169

Bradley Bros. Ltd. of Rayn - Noranda Quebec, Sept. 1988

Sept 12/88 to Sept 23/88

Footage - 2081
 U.S. - 1600

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 OFFICE
 JAN 19 1989
 RECEIVED

RECORDED
 NOV - 4 1988

RECEIVED
 NOV 4 1988

Date of Report: **Nov. 1/88**
 Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **GEORGE ZBITNOFF, Vice-President Exploration, Granges Exploration Ltd.**
 (as above)

Date Certified: **Nov. 1/88**
 Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work		Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work	Nil		
Compressed air, other power driven or mechanical equip.	Type of equipment		

Name and Postal Address of Recorded Holder: **GRANITES EXPLORATION LTD.**
 2300 - 885 WEST GEORGIA ST., VANC., BC. V6C 3E8
 Prospector's Licence No. **T1970**

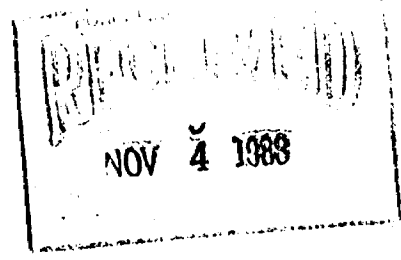
Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed (480)	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	P	951922	20	P	951902	20	P	951886	20
		951923	20		938982	20		952180	20
		951549	20		951932	20		952171	20
		951550	20		951938	20		952172	20
		951900	20		951903	20		951941	20
		951901	20		938983	20		951942	20
		938981	20		951931	20		951895	20
		951934	20		951936	20		951896	20

All the work was performed on Mining Claim(s): **952169 + 952174**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

DDH # B-2 400' (122 m) claim 952169
 DDH # B-3 403' (123 m) claim 952174
 Bradley Bros. Ltd. of Rouyn - Normanda, Quebec, Sept. 1988



Date of Report: **Nov. 1/88**
 Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **GEORGE ZBITNOFF, VICE-PRESIDENT Exploration, GRANITES Exploration Ltd.**
 (as above)
 Date Certified: **Nov. 1/88**
 Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.		Nil



Ministry of
Northern Development
and Mines

Report
of Work

Instructions - Supply required data on a separate form for each type of work to be recorded (see table below).
- For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

Mining Act

Page 3 of 4

Name and Postal Address of Recorded Holder: **GRANGES EXPLORATION LTD.**
Prospector's Licence No.: **T1970**
2300 - 885 WEST GEORGIA ST., VANC, BC - V6C 3E8

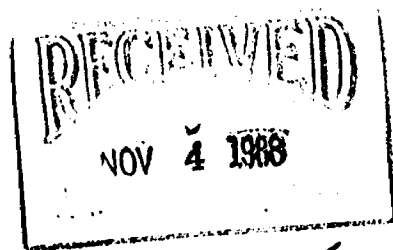
Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed (480) page 3	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	P	951913	20	P	951897	20	P	951893	20
		952179	20		951912	20		951898	20
		952181	20		952178	20		951911	20
		952170	20		952182	20		952177	20
		952173	20	Perf	952169	20	Perf	952183	20
	Perf	951940	20	Perf	952174	20		952175	20
		951943	20		951939	20		951891	20
		951894	20		951890	20		951892	20

All the work was performed on Mining Claim(s): **952174 + 951940**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

DDH # B-3 403' (123 m) claim 952174
DDH # B-4 538' (164 m) claim 951940
Bradley Bros. Ltd. of Rayn-Noranda, Quebec, Sept. /88



Date of Report: **Nov. 1 /88**
Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **GEORGE ZBITNOFF, Vice-President Exploration, Granges Exploration Ltd.**
(as above)
Date Certified: **Nov. 1 /88**
Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work			

Name and Postal Address of Recorded Holder
GRANGES EXPLORATION LTD.
 2300 - 885 WEST GEORGIA ST., VANC, BC. V6C 3E8

Prospector's Licence No.
T 1970

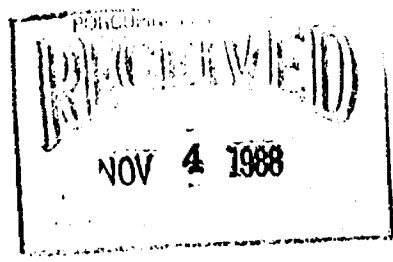
Summary of Work Performance and Distribution of Credits

Total Work Days Claimed (160) page 4	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	P	951909	20						
		951910	20						
		951680	20						
		951905	20						
		951899	20						
		952168	20						
		951935	20						
	951933	20							

All the work was performed on Mining Claim(s): **951896**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

DDH # B-5 360' (110 m) claim 951896
 Bradley Bros. Ltd. of Rouyn-Noranda, Quebec, Sept. /88



Date of Report: **Nov. 1/88**
 Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

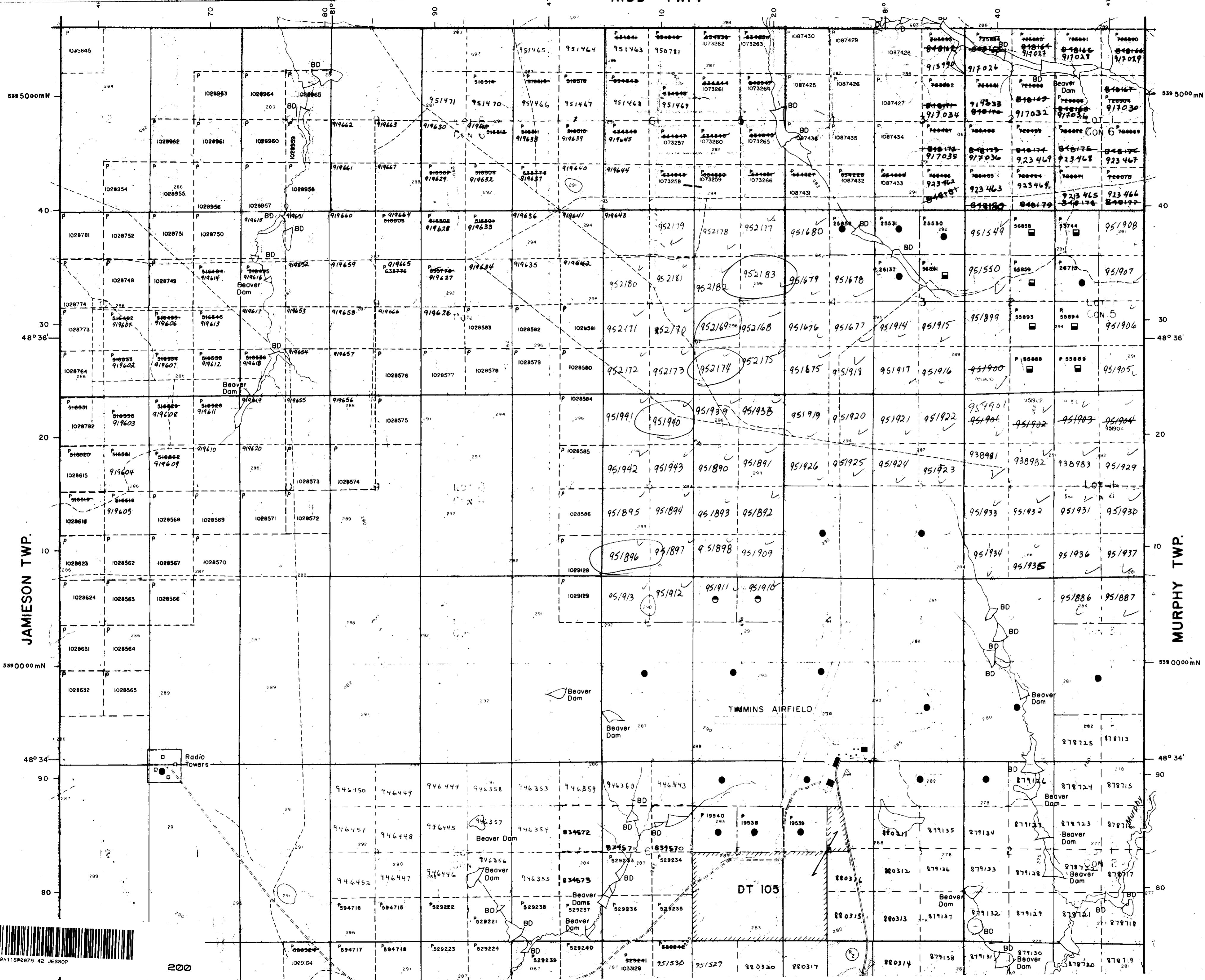
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
GEORGE ZBITNOFF, Vice President Exploration, Granges Exploration Ltd.
(as above)

Date Certified: **Nov. 1/88**
 Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

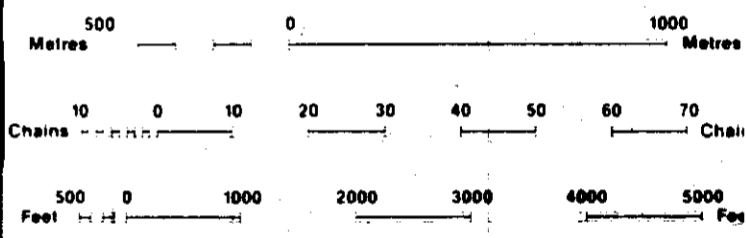


SURVEYED LINES
 TOWNSHIPS, BASE LINES, ETC. ————
 LOTS, MINING CLAIMS, PARCELS, ETC. ————
 UNSURVEYED LINES
 LOT LINES
 PARCEL BOUNDARIES
 MINING CLAIMS ETC. ————
 RAILWAY AND RIGHT OF WAY
 UTILITY LINES
 NON-PERENNIAL STREAM
 FLOODING OR FLOODING RIGHTS
 SUBDIVISION OR COMPOSITE PLAN
 RESERVATIONS
 ORIGINAL SHORELINE
 MARSH OR MUSKEG
 MINES
 TRAVERSE MONUMENT

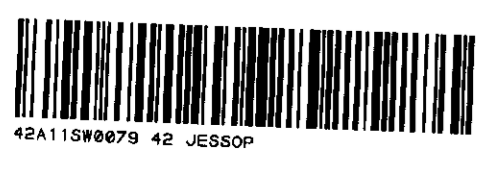
DISPOSITION OF CROWN LANDS

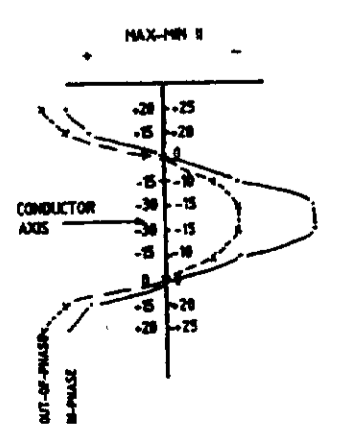
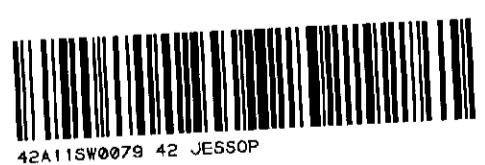
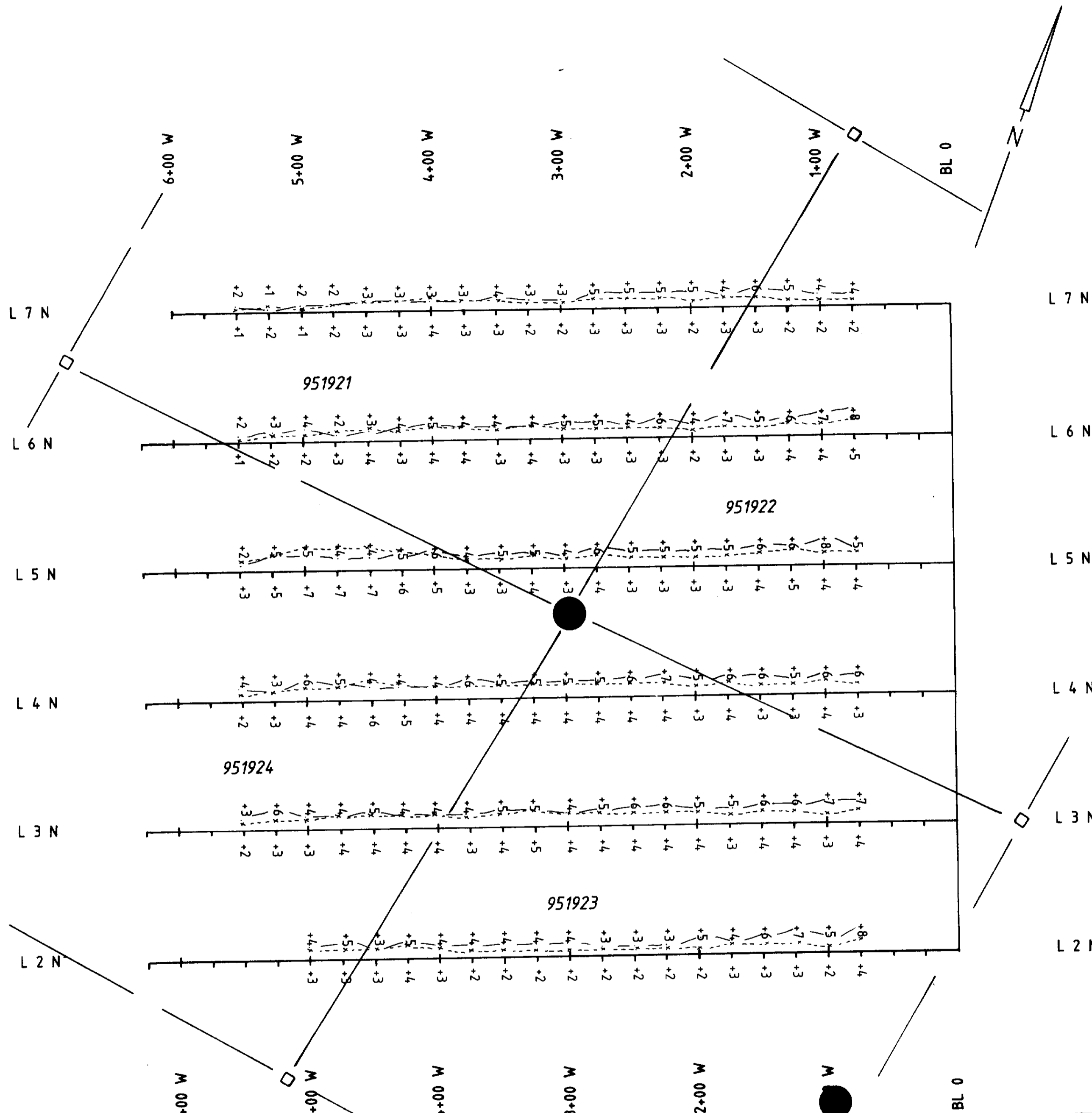
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	◼
MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.




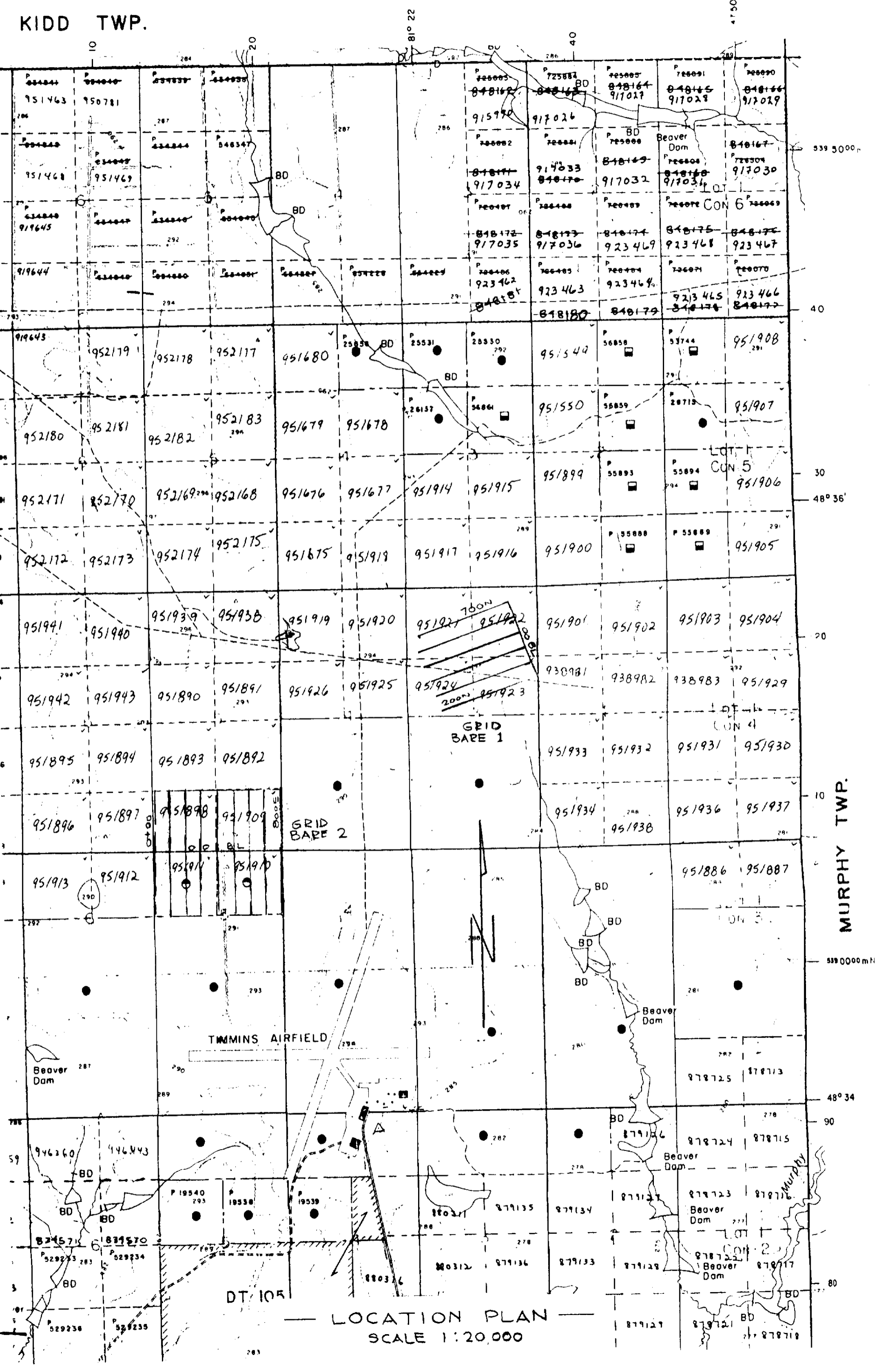
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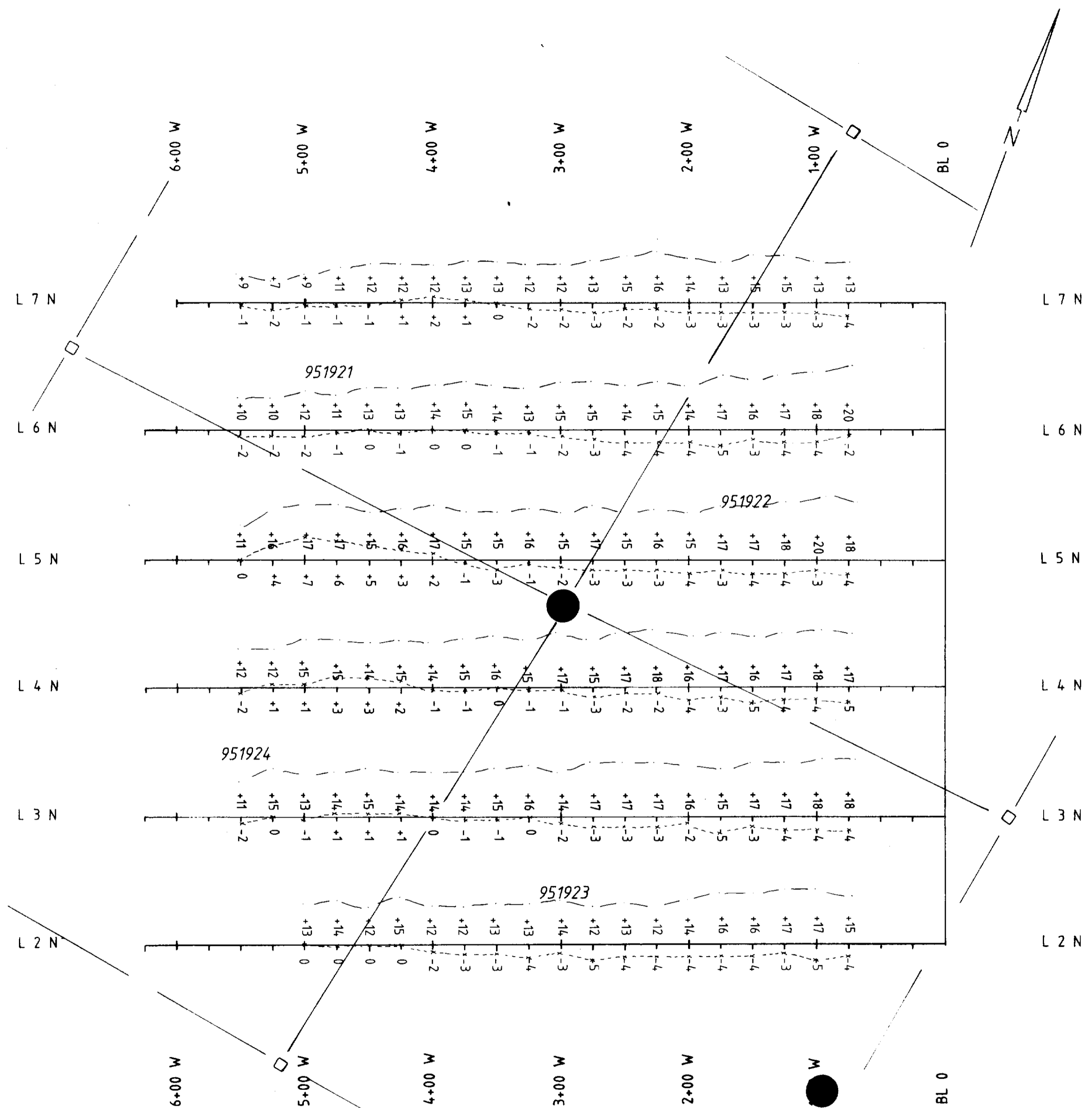




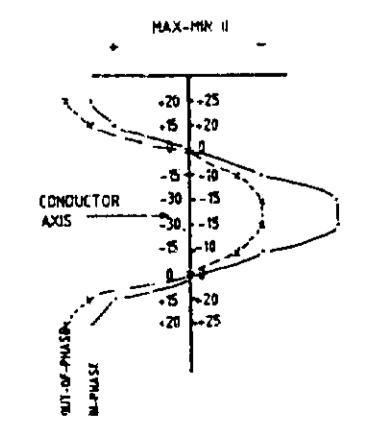
LEGEND
 INSTRUMENT: Apex Parametrics Max-Min II
 MODE: Maximum Coupled, Horizontal Loop Survey
 PARAMETERS MEASURED: Inphase (%)
 Out of phase (%)
 FREQUENCY: 444 Kz
 CON. SEPARATION: 150 m
 OPERATOR: Exsics Exploration
 PROFILE SCALE: 1cm=10%

 EXSICS EXPLGRATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: GRANGES EXPLORATION LTD.		
PROPERTY: JESSOP TOWNSHIP		
TITLE: MAX-MIN II		Grid 1
Date: May 1988		Scale: 1:2500
Drawn: L.R.		Interp:
NTS:		Job No. EE-148




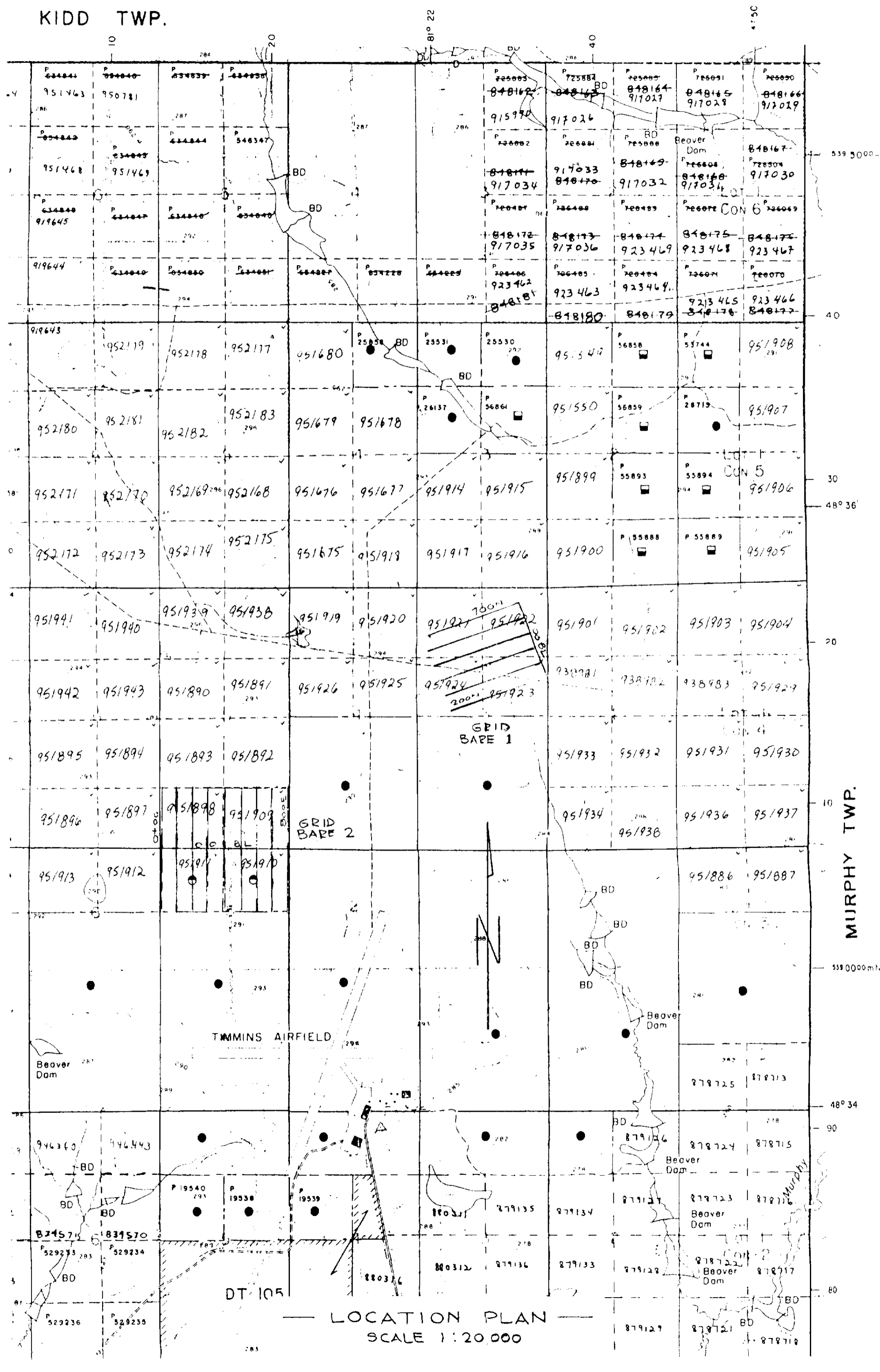


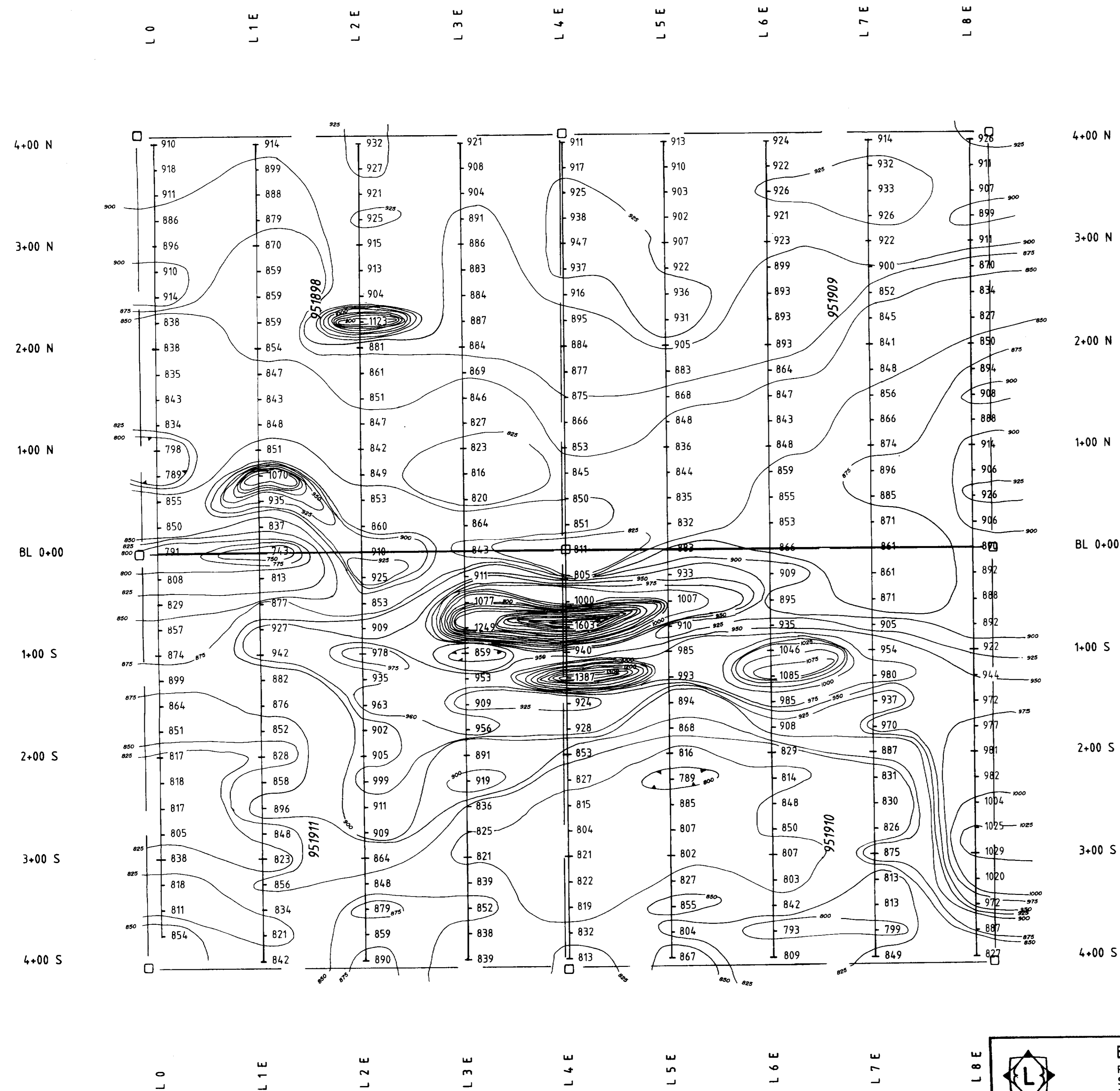
230



LEGEND
 INSTRUMENT: Apex Parametrics Max-Min 11
 MODE: Maximum Coupled, Horizontal Loop Survey
 PARAMETERS MEASURED: Inphase (%)
 Out of phase (%)
 FREQUENCY: 888 Kz
 COIL SEPARATION: 150 m
 OPERATOR: Exsics Exploration
 PROFILE SCALE: 1cm=10%

 EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: GRANGES EXPLORATION LTD.		
PROPERTY: JESSOP TOWNSHIP		
TITLE: MAX-MIN II		Grid 1 888 Kz
Date: May 1988	Scale: 1:2500	NTS:
Drawn: L.R.	Interp:	Job No. EE-148





EXSICS EXPLORATION LTD.
 P.O. Box 1880, P4N-7X1
 Suite 13, Hollinger Bldg, Timmins Ont.
 Telephone: 705-267-4151

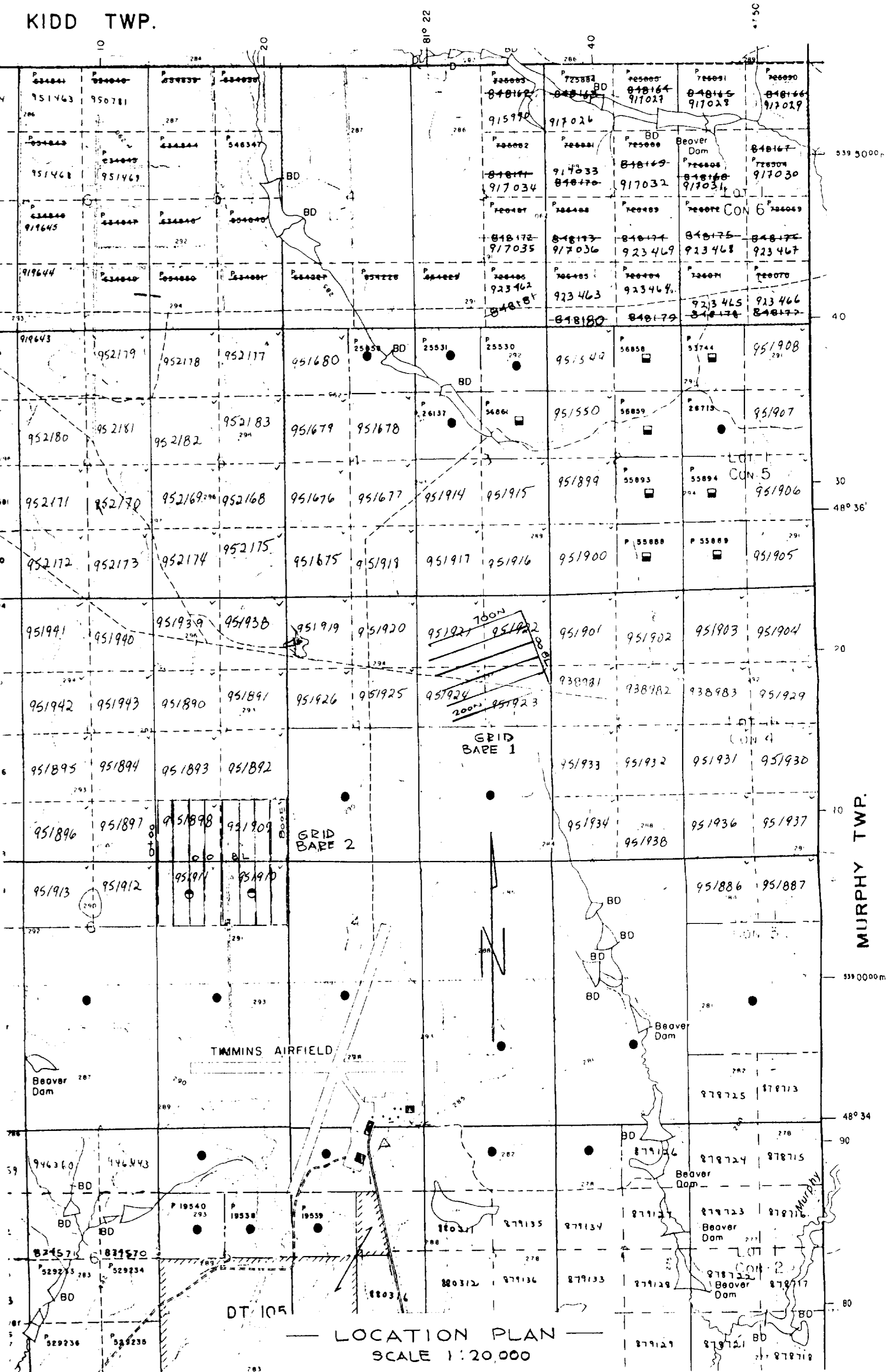
CLIENT: GRANGES EXPLORATION LTD.

PROPERTY: JESSOP TOWNSHIP

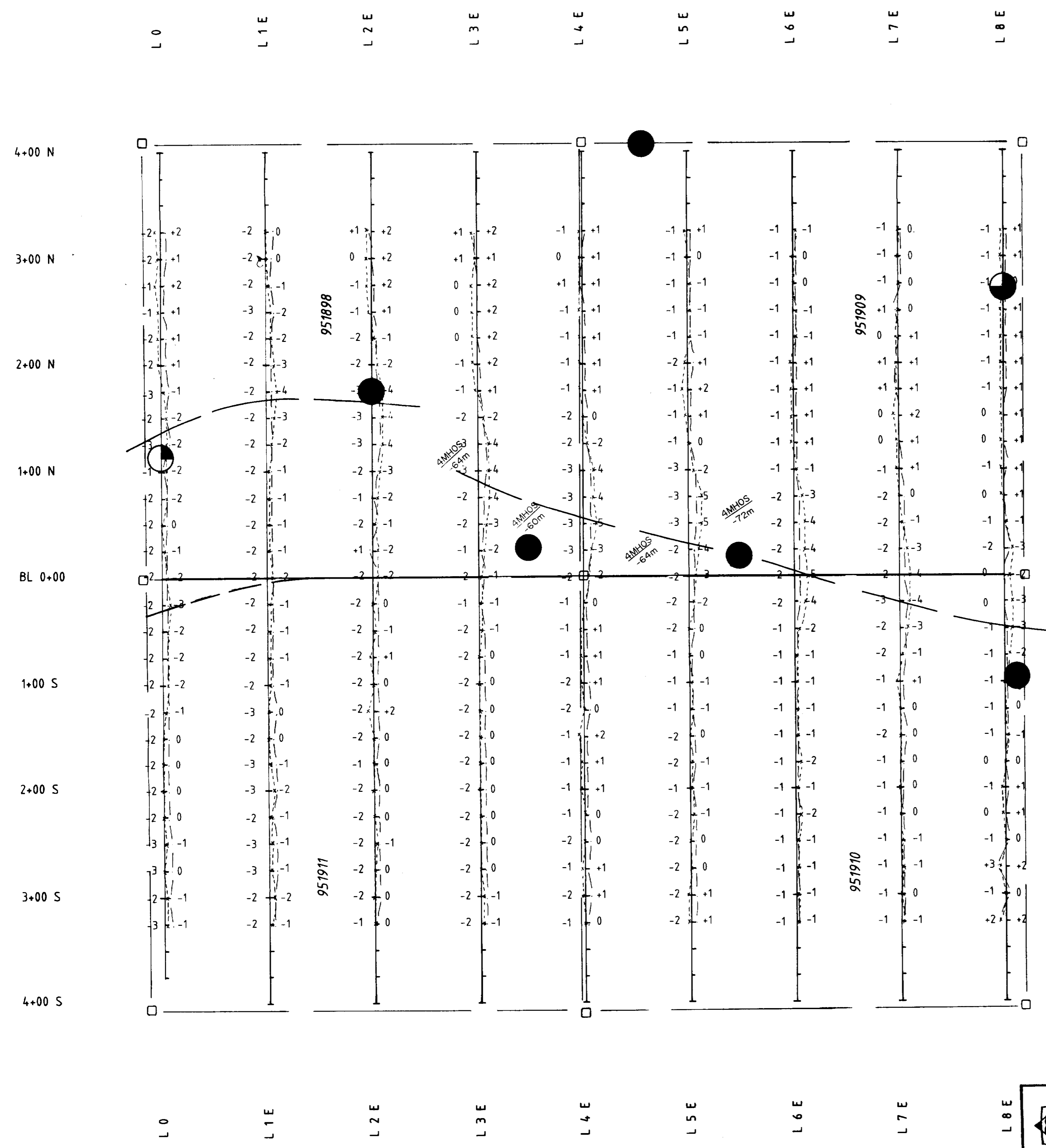
**TITLE: Grid 2
 CONTOURED MAGNETOMETER SURVEY**

Date: May 1988	Scale: 1:2500	NTS:
Drawn: L.R.	Interp:	Job No. EE-148

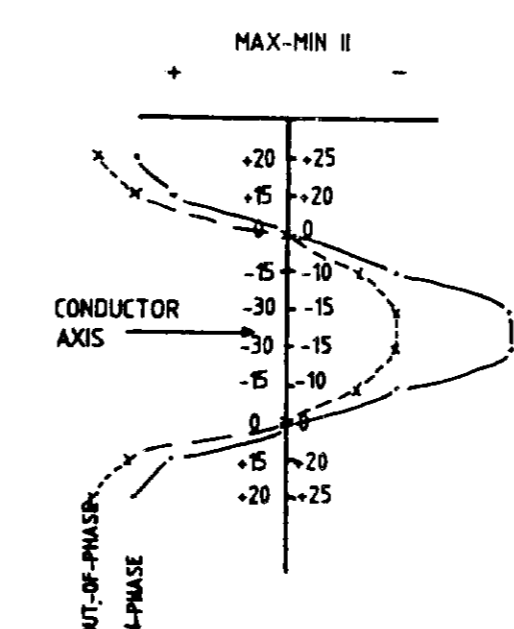
LEGEND
 Instrument: EDA OMNI-IV
 Parameters Measured: Earth's total magnetic field
 Vertical magnetic gradient
 Accuracy: +/- 1 nano-Teslas
 Diurnals: Corrected by tie line looping (in file mode)
 Contour Interval: 0.25, 50, 75, 100
 Reference Field: 58807
 Datum Subtracted: 58000



- AIRBORNE ANOMALY**
- ☼ 1-2 Channel (350, 450 microseconds)
 - ⊕ 3-4 Channel (550, 670 microseconds)
 - ⊖ 5-6 Channel (790, 910 microseconds)
 - ⊙ 7-8 Channel (1050, 1190 microseconds)
 - 9-10 Channel (1350, 1510 microseconds)
 - 11-12 Channel (1680, 1870 microseconds)
- DECAY INTERVAL CLASSIFICATION**



4+00 N
3+00 N
2+00 N
1+00 N
BL 0+00
1+00 S
2+00 S
3+00 S
4+00 S

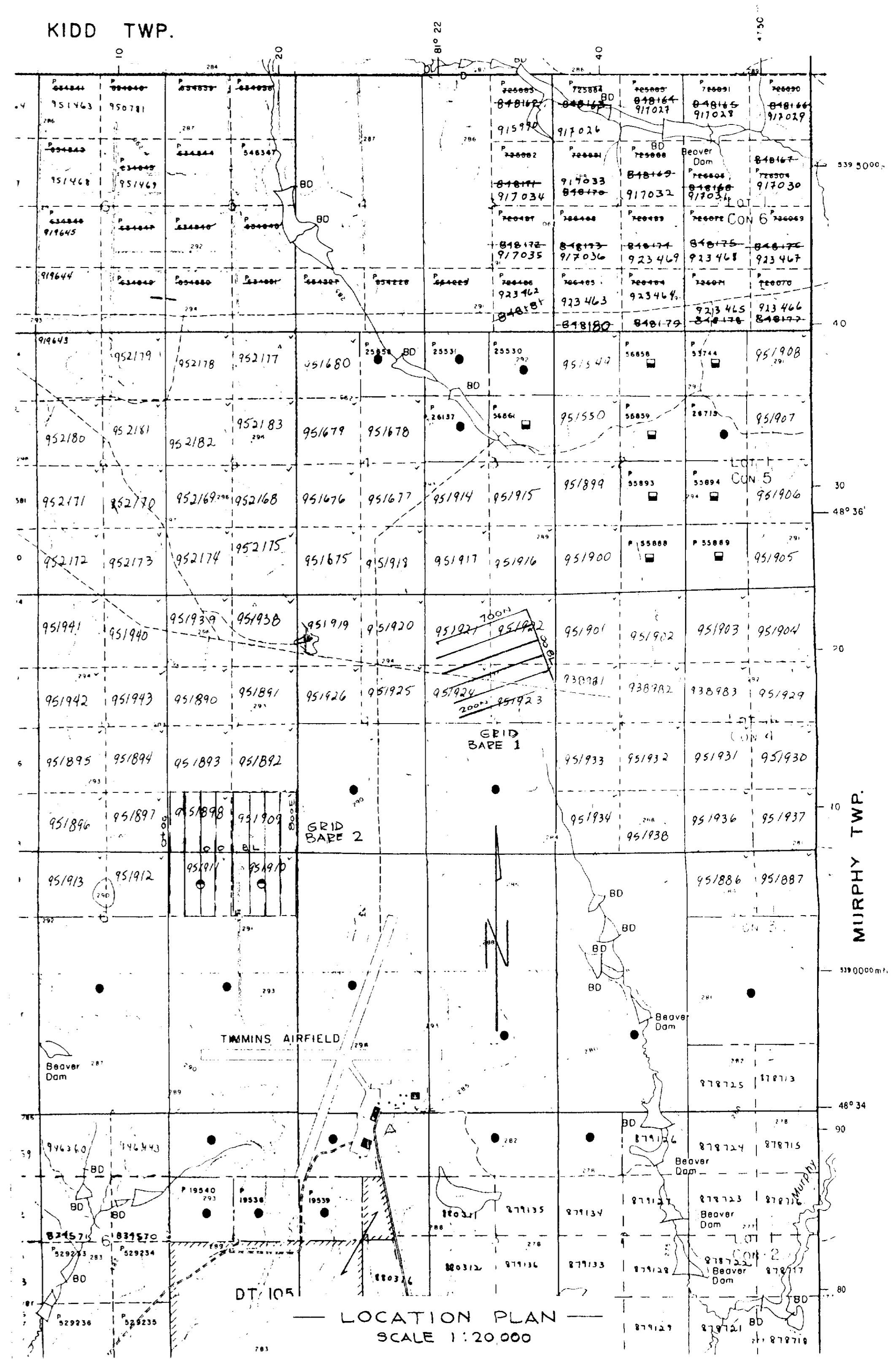


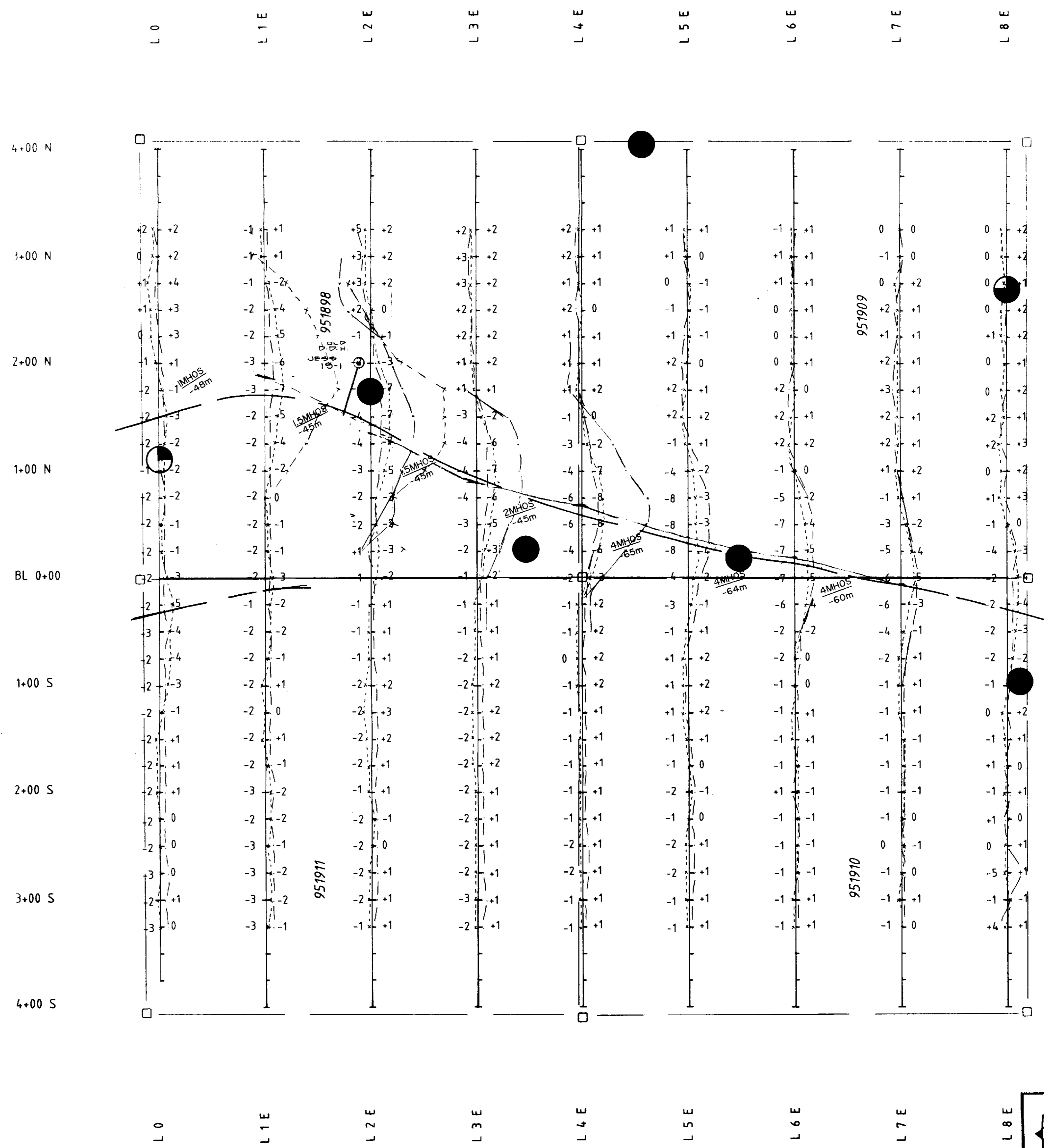
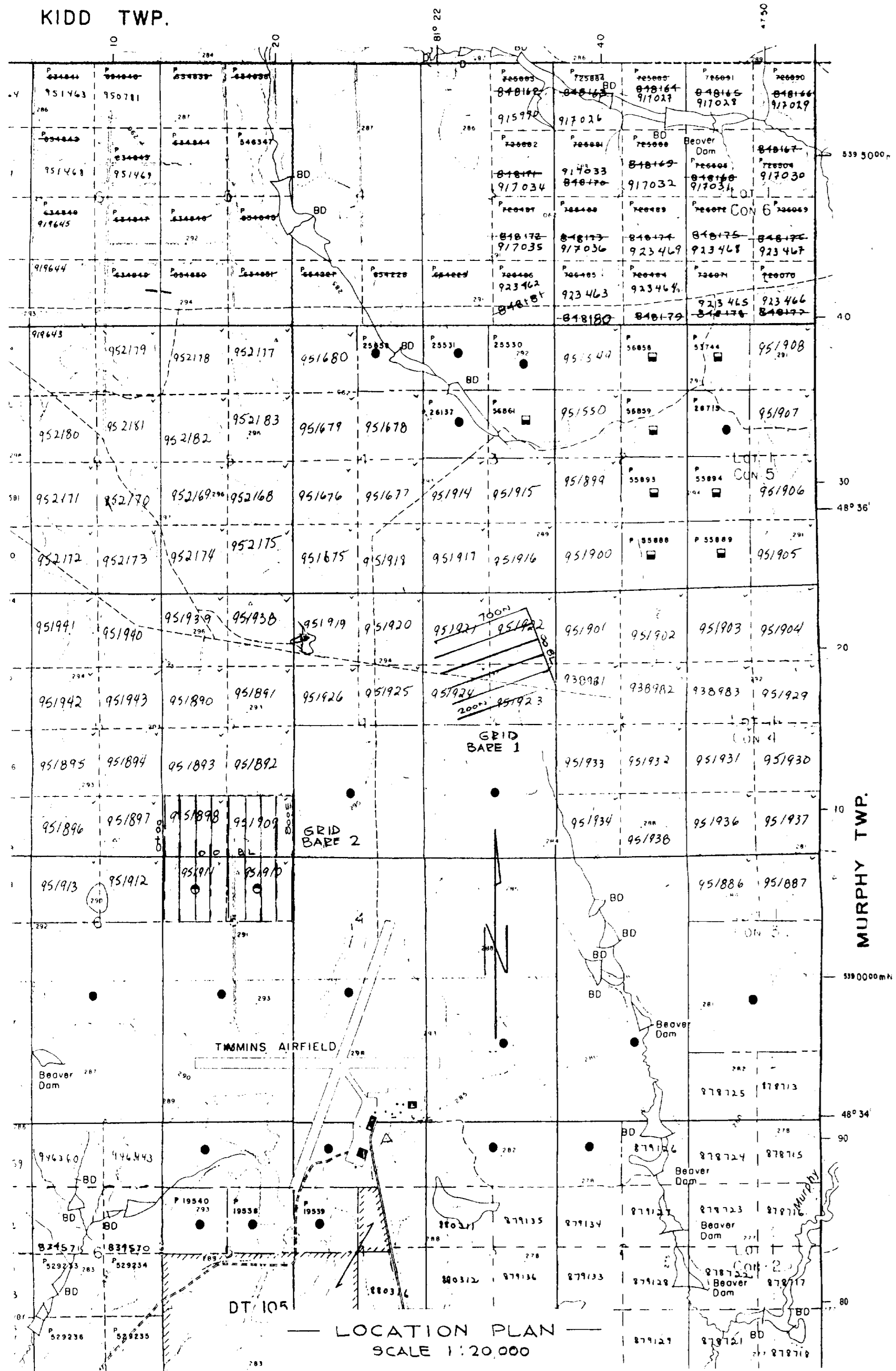
LEGEND

INSTRUMENT: Apex Parametrics Max-Min II
 MODE: Maximum Coupled, Horizontal Loop Survey
 PARAMETERS MEASURED: Inphase (%), Out of phase (%)

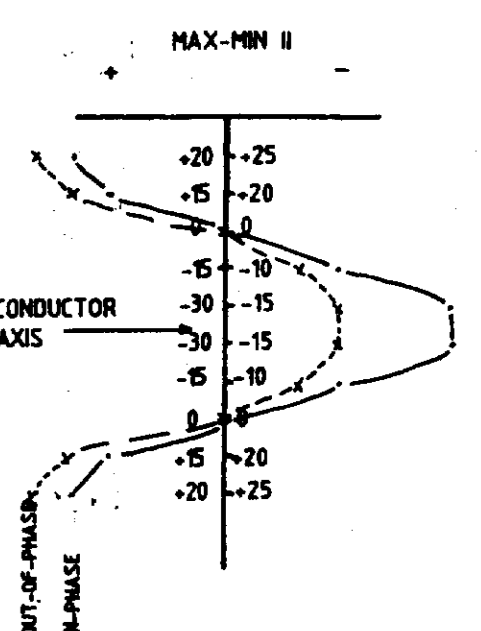
FREQUENCY: 444 Kz
 COIL SEPARATION: 150 m
 OPERATOR: Exsics Exploration
 PROFILE SCALE: 1cm=10%

EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: GRANGES EXPLORATION LTD.		
PROPERTY: JESSOP TOWNSHIP		
TITLE: MAX-MIN II		Grid 2
Date: May 1988	Scale: 1:2500	NTS:
Drawn: L.R.	Interp:	Job No. EE-148






AIRBORNE ANOMALY	DECAY INTERVAL CLASSIFICATION
✳	1-2 Channel (350, 450 microseconds)
⊕	3-4 Channel (550, 670 microseconds)
⊖	5-6 Channel (790, 910 microseconds)
⊙	7-8 Channel (1050, 1190 microseconds)
●	9-10 Channel (1350, 1510 microseconds)
●	11-12 Channel (1680, 1870 microseconds)



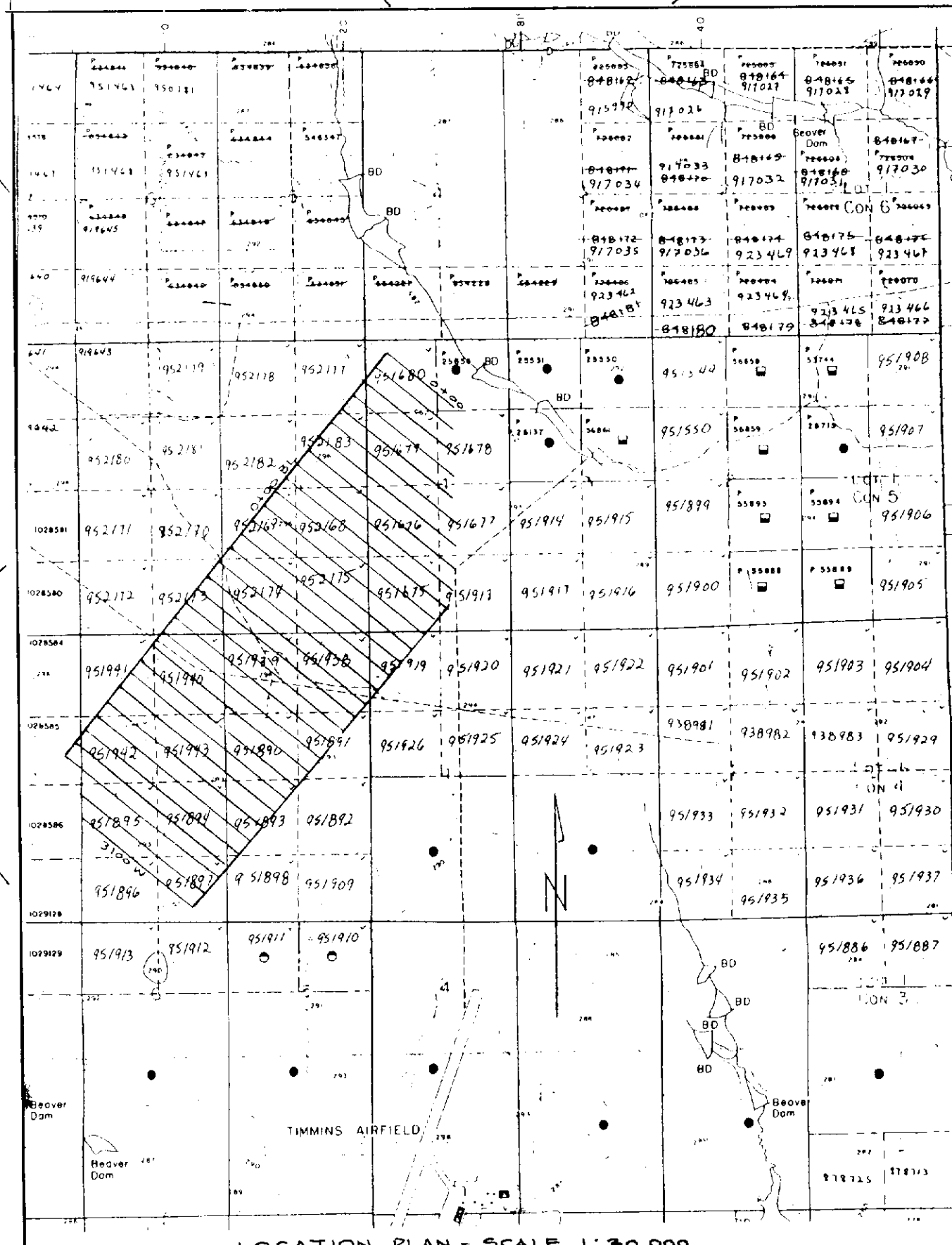
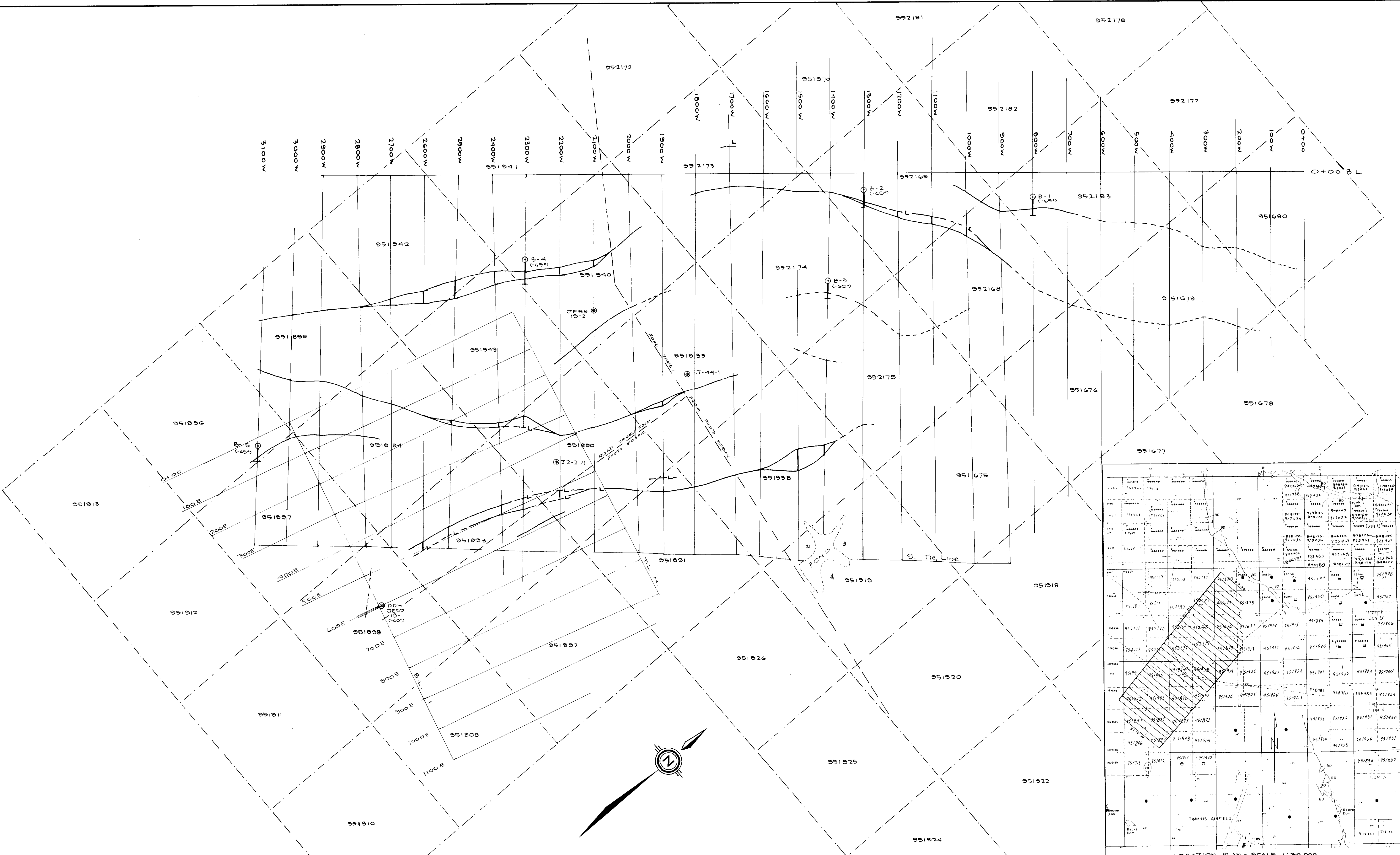
LEGEND

INSTRUMENT: Apex Parametrics Max-Min II
 MODE: Maximum Coupled, Horizontal Loop Survey
 PARAMETERS MEASURED: Inphase (%)
 Out of phase (%)

FREQUENCY: 888 Kz
 COIL SEPARATION: 150 m
 OPERATOR: Exsics Exploration
 PROFILE SCALE: 1cm=10%

 EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: GRANGES EXPLORATION LTD.		
PROPERTY: JESSOP TOWNSHIP		
TITLE: MAX-MIN II 888 Kz		Grid 2
Date: May 1988	Scale: 1:2500	NTS:
Drawn: L.R.	Interp:	Job No. EE-148





L: EXACT EDGE OF CONDUCTOR UNKNOWN.	DRAWN BY: M.P.
○: DIAMOND DRILL HOLE 1988 PROGRAM	DATE: APRIL - SEPT, 1988
⊙: DIAMOND DRILL HOLE FROM PREVIOUS PROGRAMS (LOCATED)	

GRANGES EXPLORATION LTD.
VANCOUVER B.C.

PLAN OF EM ANOMALIES & DIAMOND DRILLING
(RE-INTERPRETATION OF 1980 EM SURVEY)
BARESTAR OPTION
(GRID JESS 19)
JESSOP TWP
TIMMINS ONT. AREA.

SCALE: 1:5,000
PROJECT No.: 518
N.T.S. No.:

