

2.1073  
Hanna Township

N.T.S. #42-A-14/NE



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PROJECTS  
SECTION

Report on  
Geochemical Soil Sampling Program  
Conducted on  
Mann 1-71 (Tesluk Option) Property

Mann and Hanna Townships,  
Porcupine Mining Division  
Timmins Area, Ontario

October 16, 1972  
Timmins, Ontario

E. A. Gallo  
Noranda Exploration Co., Ltd.

This report on the Geochemical soil sampling program is submitted under the Special Provision dated October 16, 1967, for credit of 20 assessment work days per claim. The person in charge of the linecutting and sampling was E. A. Gallo.

Mann 1-71 (Tesluk Option)

Location - The Mann 1-71 (Tesluk Option) Property consists of 14 contiguous unpatented mining claims in the northwest part of Mann Township, and the southwest part of Hanna Township. The group lies about 30 miles northeast of the town of Timmins, Ontario.

The claims are numbered P.235730-33, P.307674-76, P.308275-77, P.308280-81, and P.308419-20. The claims cover the north halves of Lots 9, 10, and 11 in Concession VI, Mann Township, and, if Hanna Township was also subdivided, the SE $\frac{1}{4}$  of the S $\frac{1}{2}$  of Lot 10, and the SW $\frac{1}{4}$  of the S $\frac{1}{2}$  of Lot 9, Concession I, Hanna Township.

Access - The property is easily reached by boat up the Frederickhouse River, south from Cochrane. The river passes through the west part of the property. Alternately, the ground may be reached by foot or muskeg tractor along a winter road off of Highway #11 from Newmarket Township.

Topography - The property is flat, with a maximum relief of about 10' along the banks of the Frederickhouse River.

Linecutting - Two parallel Base Lines were cut on the property, at a bearing of N60°W, and 3000' apart. Cross lines were cut at 400' intervals at right angles to the Base Lines. All the lines were chained and picketed at 100' intervals. About 13.1 miles of lines were cut in all.

Geochemical Survey - The soil sampling program was conducted on June 14-22 and 24, 1971, and October 16, 1972.

Samples were collected along the cut lines at 100' intervals using drain spades. The botton of the B horizon and the top of the C horizon were sampled. Usually the sample was collected from a depth of 9"-12". Occassionally the humus extended to excessive depths (+6') and in such an area was not possible to collect a soil sample with the equipment used.

After collecting, the samples were dried and shipped to a

company lab. Here they were pulverized if necessary, and seived through  $< 8, > 80$  mesh. The coarse fraction was fused in potassium bisulphate and then dissolved in hydrochloric acid. The reagent was diquinolyl and the method was colormetric. Total Cu, total Zn, and total Ni were all run.

The results of this geochemical sampling program are shown on the attached prints.

Background values of total Cu were found to be around 20 ppm. Threshold values range between 21-30 ppm. No anomalous zones were found to occur, although spot Cu highs of 66 ppm were located at 40+00S on Line 32W, 42 ppm Cu at 20+00S on Line 16E, and 40 ppm Cu at 28+00S on Line 16E.

Background values of total Zn were found to be about 60 ppm. Threshold values range from 61-90 ppm. Several spot values in excess of 90 ppm were located, the highest of which is 180 ppm Zn at 36+00S on Line 16W. This value falls in a zone of slightly anomalous values which extends from 34+00S on Line 12W to 42+00S on Line 20W, and may cross the river to 39+00S on Line 28W.

Background values of total Ni were found to range up to 40 ppm. Threshold values range between 41 and 50 ppm. The highest Ni value obtained is 54 ppm, at 24+00S on Line 20W.

Conclusions - No anomalous zones of Cu or Ni were found by the soil sampling program. One small zone of weakly anomalous Zn was found near the river, however this is known to be an area underlain by peridotites. Because of this, and because Zn is known to be an exceptionally volatile metal, the zone is thought to represent a concentration of this metal in transported overburden rather than in the bedrock.



E. A. Gallo

Noranda Exploration Co., Ltd.

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# NORANDA EXPLORATION CO. LTD.

LOCATION Testate Option

MANN

PROJECT 1-71 7-33

SHEET 2

Ontario

SAMPLE Nos. \_\_\_\_\_

MATERIAL SOIL

COLLECTOR \_\_\_\_\_ DATE 1/1

ANALYST \_\_\_\_\_ DATE July 1/23/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
				Cu		Zn		Ni		
14	36W - 345			16		60		32		15375
5	33			18		62		36		
6	32			16		56		28		
7	31			16		62		32		
8	30			24		56		32		
9	29			20		58		34		
20	27			12		30		20		
1	26			6		30		18		
2	24			16		54		34		
3	23			16		64		38		
4	22			22		30		40		
5	21			16		30		36		
6	20			16		38		40		
7	145			16		76		38		
8	32W - 175			28		66		42		
9	18			16		58		36		
30	19			16		56		38		
1	20			<del>20</del>	10	44		22		
2	21			<del>20</del>	10	66		54		
3	22			8		52		20		
4	23			20		62		40		
5	24			20		58		40		
6	25			18		64		40		
7	26			18		62		40		
8	27			16		66		40		
9	28			18		62		36		
40	24			16		58		30		
1	36			14		78		32		
2	31			24		62		32		

# NORANDA EXPLORATION CO. LTD.

LOCATION Teslab Option  
Ontario

MANN

PROJECT 1-71 7-33 SHEET 3

MATERIAL Soil

SAMPLE Nos. \_\_\_\_\_  
COLLECTOR \_\_\_\_\_ DATE 1/1

ANALYST \_\_\_\_\_ DATE July 123/71

REMARKS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
				C.4		Z.4		N.1		
✓ 43	32W-325			20		62		44		
4	33			16		60		40		
5	34			20		76		40		
6	35			20		60		42		
7	36			18		62		42		
8	37			18		54		40		
9	38			20		64		42		
50	39			20		70		42		
1	40			16		70		32		
2	41			24		82		50		
3	42			14		62		34		
✓ 4	435			16		84		46		
5	28W-415			16		46		26		
6	40			24		86		42		
7	39			22		98		48		
8	38			22		96		48		
9	37			12		74		36		
60	36			18		100		36		
1	35			16		70		38		
2	34			16		70		38		
3	33			22		56		40		
4	32			18		82		40		
5	31			22		64		44		
6	30			16		60		40		
7	29			24		76		44		
8	28			24		64		48		
9	27			16		62		36		
70	26			18		90		38		
✓ 1	28W-355			14		76		36		

# NORANDA EXPLORATION CO. LTD.

LOCATION Taluk Option

MANN

PROJECT 1-71 7-33 SHEET 4

Ontario

SAMPLE Nos. \_\_\_\_\_

MATERIAL Soil

COLLECTOR \_\_\_\_\_ DATE \_\_\_\_\_

ANALYST \_\_\_\_\_ DATE July 123/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
				Ca		Zn		Ni		
72	28W - 245			14		130		36		
3	23			14		90		36		
4	225			16		40		30		
5	24W - 255			14		42		28		
6	26			22		96		52		Ally - two
7	27			20		86		44		
8	28			10		72		24		
4	29			18		70		36		
80	30			24		92		40		
1	31			<del>14</del>	14	58		38		
2	32			8		60		28		
3	33			14		64		32		
4	34			12		96		34		
5	35			10		90		32		
6	36			16		80		42		
7	37			16		62		40		
8	38			14		42		26		
4	155			16		42		26		
80	16			14		36		24		
1	17			4		26		10		
2	18			8		48		24		
3	19			24		76		50		
4	20			12		52		26		
5	215			14		34		22		
6	20W - 125			14		36		24		
7	13			26		84		44		
8	14			16		86		30		
9	20W - 155			20		100		40		
100	checks			56		58		22		

# NORANDA EXPLORATION CO. LTD.

LOCATION Testuk Option PROJECT M.A.M.V. 1-71 7-33 SHEET 5  
Ontario  
 MATERIAL Soil COLLECTOR \_\_\_\_\_ DATE \_\_\_\_\_  
 ANALYST \_\_\_\_\_ DATE July 123/71  
 REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Cu	4	5 Zn	6	7 Ni <del>Pb</del>	8	G.C.I. NUMBER
✓ 101	20w-165			11		110		34		
2	17			18		90		44		
3	18			14		86		34		
4	19			26		74		32		
5	20			22		96		36		
6	21			20		64		40		
7	22			20		70		42		
8	23			24		64		52		
9	24			24		68		57		
✓ 110	25			14		86		36		
1	26			6		22		12		
2	39			18		64		38		
3	40			12		44		24		
4	41			28		96		46		
5	42			14		94		36		
6	43			16		70		42		
7	44			16		70		38		
8	45			16		66		36		
✓ 9	20w-465			14		54		22		
✓ 120	16w-455			30		86		34		
1	44			16		70		36		
2	43			18		62		34		
3	42			18		140		32		
4	41			22		78		50		
5	40			22		130		38		
6	39			16		110		28		
7	38			24		130		42		
8	37			24		96		42		
✓ 9	36			28		180		46		

# NORANDA EXPLORATION CO. LTD.

LOCATION Tarbuk Option

MANA

PROJECT 1-71 7-33

SHEET 6

Opitawa

SAMPLE Nos. \_\_\_\_\_

MATERIAL SOIL

COLLECTOR \_\_\_\_\_ DATE 1/1

ANALYST \_\_\_\_\_ DATE July 123/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
				C <sub>4</sub>		Z <sub>11</sub>		N <sub>1</sub>		
130	16W-35S			22		74		46		
1	34			10		86		26		
2	33			10		88		28		
3	32			12		70		28		
4	31			8		54		28		
5	30			12		88		28		
6	29			10		62		24		
7	28			14		90		36		
8	27			20		74		42		
9	26			20		70		42		
140	25S			20		66		42		
1	24S-16W			12		60		36		
2	16W-23S			10		86		34		
3	22			18		60		34		
4	21			18		72		38		
5	20			22		84		40		
6	19			20		82		44		
7	18			12		52		24		
8	17			18		60		34		
9	16			16		78		36		
150	15			10		120		36		
1	14			26		70		48		
2	13S			10		80		32		
3	12W-8S			24		90		40		
4	9			20		76		42		
5	10			20		76		44		
6	11			16		68		36		
7	12			12		70		36		
8	13			12		68		36		



# NORANDA EXPLORATION CO. LTD.

LOCATION Tealuk Option

PROJECT MANN 1-71 7-33

SHEET 7

Ontario

SAMPLE Nos. \_\_\_\_\_

MATERIAL SOIL

COLLECTOR \_\_\_\_\_ DATE 1/1

ANALYST \_\_\_\_\_ DATE July 123/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
159	12W - 14.5			20		68		38		
160	15.5			16		68		38		
1	Chert #240			50		54		22		
2	12W - 16.5			16		64		40		
3	7			24		72		46		
4	8			34		70		48		
5	9			16		70		40		
6	20			20		66		44		
7	1			16		82		36		
8	2			18		72		36		
9	3			16		66		36		
10	4			18		60		34		
1	5			14		54		28		
2	6			14		78		34		
3	7			18		64		46		
4	8			18		60		42		
5	9			22		56		44		
6	12W - 30			18		68		38		
7	1			20		70		44		
8	2			16		66		36		
9	3			16		80		38		
10	4			16		100		36		
1	5			12		62		38		
2	6			24		100		42		
3	7			14		74		36		
4	8			12		74	60	40		
5	9			24		76		54		
26	12W 24W - 40.5			20		66		44		

# NORANDA EXPLORATION CO. LTD.

 LOCATION MANN - 1-71

 PROJECT TESLUK OCCUR

 SHEET A
42 - A - 14 Ontario

SAMPLE NOS. \_\_\_\_\_

 MATERIAL Soil

COLLECTOR \_\_\_\_\_

DATE \_\_\_\_\_

ANALYST \_\_\_\_\_

 DATE July 123/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Cu	4	5 Zn	6	7 Ni	8	G.C.I. NUMBER
✓ 27	21W - 415			24		74		40		
✓ 8	21W - 425			16		66		52		
✓ 9	LO - 335			18		52		36		
30	2			24		60		38		
	315			10		52		24		
2	LO - 84 #2			6		44		22		
3	295			12		84		38		
4	8			24		71		50		
5	7			18		76		34		
6	6			16		62		36		
7	5			12		32		22		
8	4			16		40		30		
9	3			16		52		32		
40	1			18		64		40		
1	20			18		64		40		
2	9			16		58		38		
3	8			20		60		44		
4	7			20		64		50		
5	6			18		90		42		
6	5			18		62		42		
7	4			16		38		34		
8	3			28		66		34		
1	2			14		54		32		
50	1			20		56		40		
	10			24		58		38		
2	9			14		52		36		
3	8			16		60		42		
4	7			18		60		44		
✓ 55	LO - 68			18		56		30		

# NORANDA EXPLORATION CO. LTD.

 LOCATION MAINN 1-71

 PROJECT TESLUK OPT

 SHEET 9
42-A-14 Ontario

SAMPLE Nos. \_\_\_\_\_

 MATERIAL Soil

COLLECTOR \_\_\_\_\_

 DATE 1/1

ANALYST \_\_\_\_\_

 DATE July 123/76

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Cu	4	5 Zn	6	7 Ni	8	G.C.I. NUMBER
56	60-55			18		50		36		
7	7			20		52		36		
8	3			17		70		32		
9	2			16		38		26		
60	15			12		62		34		
1	LO-8L#1			16		76		34		
2	LO-14			18		62		42		
3	2			14		50		34		
4	3			18		66		38		
5	4			10		50		26		
6	5			8		40		24		
7	6			14		50		28		
8	7			8		40		26		
9	8			26		80		48		
70	9			22		50		32		
1	10			24		76		46		
2	1			10		14		30		
3	2			16		68		34		
4	3			18		60		40		
5	4			16		66		30		
6	5			8		36		24		
7	LO-16N			6		38		20		
8	4E-18N			14		60		38		
9	7			14		58		34		
80	6			12		36		28		
1	5			16		60		38		
2	4			22		64		44		
3	3			12		64		34		
84	4E-12N			16		72		40		

# NORANDA EXPLORATION CO. LTD.

LOCATION Mann - 1-21

PROJECT Tasluh Opt.

SHEET 19

42-A-14 Ontario

SAMPLE Nos. \_\_\_\_\_

MATERIAL Soil

COLLECTOR \_\_\_\_\_ DATE \_\_\_\_\_

ANALYST \_\_\_\_\_ DATE July / 23 / 71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Pm	4	5 Lm	6	7 Nc	8	G.C.I. NUMBER
85	4E-11N			18		64		44		
86	10			20		62		46		
87	9			14		60		36		
88	8			18		50		32		
89	7			18		68		38		
90	6			18		58		42		
91	5			14		70		38		
92	4			14		72		32		
93	3			18		44		26		
94	2			16		62		38		
95	1N			16		58		40		
96	4E-8L			18		64		36		
97	4E-1S			18		56		36		
98	2			14		48		30		
99	4E-3S			16		46		32		
100	Chert			52		56		22		
101	4E-4S			14		56		34		
102	5			16		58		34		
103	6			14		58		28		
104	8			18		52		32		
105	9			22		56		40		
106	10			16		38		26		
107	12			18		60		40		
108	3			20		44		38		
109	4			22		64		42		
110	5			16		36		28		
111	6			16		56		36		
112	7			16		50		34		
113	4E-18S			24		60		44		

# NORANDA EXPLORATION CO. LTD.

LOCATION Manor 1-71

PROJECT Testat Opt

SHEET 11

42-A-14 Ontario

SAMPLE Nos. \_\_\_\_\_

MATERIAL Soil

COLLECTOR E. Gault DATE     /    /

ANALYST \_\_\_\_\_ DATE July 123/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Cu	4	5 Zn	6	7 Ni	8	G.C.I. NUMBER
✓ 114	4E-19S			20		66		44		
5	20			20		58		44		
6	1			20		44		40		
7	2			22		54		46		
8	3			16		52		30		
9	4			18		44		38		
120	5			16		60		42		
1	6			14		54		38		
2	7			18		52		38		
3	8			10		30		24		
4	9			16		58		36		
5	30			20		60		44		
6	1			18		56		38		
7	2			18		56		40		
✓ 8	4E-33S			16		52		34		
9	8E-17N			16		70		38		
130	6			16		42		36		
1	5			22		66		40		
2	4			14		76		36		
3	3			14		78		38		
4	2			10		96		30		
5	1			14		78		40		
6	10			20		56		42		
7	9			24		60		46		
8	8			12		80		36		
9	7			12		64		30		
140	6			8		58		24		
1	5			10		60		28		
✓ 142	8E-4N			22		70		42		



# NORANDA EXPLORATION CO. LTD.

LOCATION Teekuk system

PROJECT MAN 1-71 7-33 SHEET \_\_\_\_\_

Ontario

SAMPLE Nos. \_\_\_\_\_

MATERIAL Soil

COLLECTOR \_\_\_\_\_ DATE 1/1

ANALYST \_\_\_\_\_ DATE July 123/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
				Cu		Zn		Ni		
✓ 1	check			52		58		22		
2	80-175			16		70		38		
3	18			18		54		54		
4	19			12		66		50		
5	20			16		62		36		
6	22			24		80		50		
7	23			20		80	✓	36		
8	24			26		64		44		
9	25			18		22		34		
10	26			18		52		58		
1	27			18		50		38		
2	28			14		56		50		
3	31			22		54		40		
4	29			14		60		34		
✓ 5	30 S			20		58		38		
6	8W-405			8		36		28		
7	39			24		60		46		
8	38			12		58		34		
9	37			6		50		18		
20	36			8		58		20		
1	35			14		54		30		
2	34			18		60		38		
3	33			18		66		26		
4	32			14		58		32		
5	31			12		60		38		
6	30			16		52		28		
7	29			18		54		40		
8	28			16		62		42		
✓ 9	275 (100mg)			16		52		18		

# NORANDA EXPLORATION CO. LTD.

LOCATION Testak Option

PROJECT MANV 1-71 7-33 SHEET \_\_\_\_\_

MATERIAL Soil

SAMPLE Nos. \_\_\_\_\_

REMARKS \_\_\_\_\_

COLLECTOR \_\_\_\_\_ DATE 1/1

ANALYST \_\_\_\_\_ DATE July 123/71

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
				64		20		41		
30	8W-265			12		36		28		
1	25			20		54		38		
2	24			16		56		38		
3	23			14		46		32		
4	22			16		76		38		
5	21			16		62		36		
6	20			16		52		36		
7	19			12		52		40		
8	18			24		76		42		
9	17			22		100		40		
40	16			16		68		34		
1	15			18		76		42		
2	14			16		62		42		
3	13			12		64		50		
4	12			18		50		36		
5	11			20		68		44		
6	10			18		60		42		
7	9			18		42		36		
8	8			14		60		42		
9	7			16		42		34		
50	6			16		70		36		
1	5			16		58		36		
2	4			16		66		36		
3	3			18		72		40		
4	2			18		66		34		
5	15			14		58		32		
6	13			20		92		48		
7	12			12		64		38		
8	22			14		44		36		



# NORANDA EXPLORATION CO. LTD.

LOCATION Tesluk Option PROJECT MANN-71 7-33 SHEET \_\_\_\_\_  
Ontario  
 MATERIAL Soil SAMPLE Nos. \_\_\_\_\_  
 COLLECTOR \_\_\_\_\_ DATE 1/1  
 ANALYST \_\_\_\_\_ DATE July 123/71  
 REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
				Cu		Zn		Ni		
59	8W-3N			6		30		22		
60	5			8		38		26		
1	6			8		48		28		
2	7			14		40		28		
3	8 N			12		36		28		
4	4W-355			16		74		34		
5	82			16		40		50		
6	11			4		28		20		
7	10			6		36		24		
8	9			2		16		12		
9	8			8		38		24		
70	7			12		54		32		
1	6			12		40		28		
2	5			12		38		28		
3	4			<del>12</del>	14	42		28		
4	3			8		46		24		
5	2			10		28		22		
6	1 N			22		54		38		
7	13L			26		58		46		
8	15			18		62		44		
9	2			14		56		42		
80	3			10		46		28		
1	4			14		54		38		
2	5			14		34		36		
3	6			20		60		44		
4	7			18		56		42		
5	8			22		64		48		
6	9			14		60		40		
7	105			16		58		40		

# NORANDA EXPLORATION CO. LTD.

LOCATION Tesluk Copter  
42A-14 Ontario

PROJECT MANV 1-71 7-33 SHEET \_\_\_\_\_

MATERIAL Soil

SAMPLE Nos. \_\_\_\_\_  
 COLLECTOR \_\_\_\_\_ DATE 1/1

ANALYST \_\_\_\_\_ DATE July 123/71

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3	4	5	6	7	8	G.C.I. NUMBER
				Cu		Zn		Ni		
88	4W-115			14		48		32		
9	12			16		62		40		
40	13			16		40		38		
1	14			18		60		42		
2	15			16		48		36		
3	16			12		36		30		
4	18			11		50		44		
5	19			18		50		40		
6	21			18		60		38		
7	22			54		32		30		
8	23			18		40		30		
9	24 S			16		50		34		
100	check			<del>16</del>		58		22		
1	4W-255			22		64		36		
2	26			16		70		34		
3	27			22		50		38		
4	28			14		54		34		
5	29			22		46		38		
6	30			20		70		42		
7	31			26		56		40		
8	33			18		68		36		
9	34			16		60		38		
110	36			16		64		40		
1	375			22		62		44		
2	125-305			20		54		34		
3	29			16		70		36		
4	28			18		66		38		
5	27			14		62		36		
6	265			16		60		34		

# NORANDA EXPLORATION CO. LTD.

LOCATION Tesluk Option PROJECT M 9 NW 1-21 7-33 SHEET \_\_\_\_\_  
Ontario  
 MATERIAL SOIL SAMPLE Nos. \_\_\_\_\_  
 COLLECTOR \_\_\_\_\_ DATE 1/1  
 ANALYST \_\_\_\_\_ DATE July 133/21  
 REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Cu	4	5 Zn	6	7 Ni	8	G.C.I. NUMBER
✓ 117	12E-255			20		42	✓	38		
8	24			20		40		36		
9	23			16		34		30		
120	22			20		48		40		
1	21			16		34		30		
2	20			18		40		34		
3	18			18		46	✓	36		
4	17			18		54	✓	40		
5	16			16		34		34		
6	15			14		52	✓	32		
7	14			16		52	✓	36		
8	13			18		56	✓	32		
9	12.5			22		54	✓	38		
130	11			16		52	✓	40		
1	10			16		58	✓	42		
2	9			20		56	✓	42		
3	8			30		54	✓	38		
4	7			24		50	✓	30		
5	6			24		60		42		
6	5			12		50		38		
7	4			14		50	✓	44		
8	3			14		40		32		
9	2			18		34		34		
140	15			10		26		24		
1	14			16		52	✓	34		
2	13			16		58	✓	44		
3	2			22		58	✓	46		
4	3			14		50	✓	38		
5	4			22		60	✓	50		

# NORANDA EXPLORATION CO. LTD.

 LOCATION Tesluk Option

 PROJECT MAN-71 7-33

SHEET \_\_\_\_\_

 \_\_\_\_\_  
Ontario

SAMPLE Nos. \_\_\_\_\_

 MATERIAL SOIL

 COLLECTOR \_\_\_\_\_ DATE 1/1

 ANALYST \_\_\_\_\_ DATE July 123/71

 REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Cu	4	5 Zn	6	7 Ni	8	G.C.I. NUMBER
✓ 146	120-5N			22		58		46		
7	6			16		58	✓	42		
✓ 8	7N			18		60	✓	40		
9	160-8N			14		44	✓	38		
150	7			14		50	✓	40		
1	6			10		32		24		
2	5			18		60	✓	46		
3	4			20		62	✓	50		
4	3			18		54	✓	44		
5	2			14		60	✓	42		
6	1N			10		50	✓	38		
7	BL			22		54	✓	38		
8	15			20		46	✓	34		
9	3			22		64	✓	46		
✓ 160	45			22		50	✓	30		
1	check			50		60		22		
2	160-55			16		42		22		
3	6			16		46	✓	32		
4	7			20		48	✓	36		
5	8			18		48	✓	32		
6	9			16		62	✓	36		
7	10			20		56	✓	18		
8	11			18		66	✓	38		
9	12			12		56	✓	28		
10	13			18		62	✓	34		
11	14			18		56	✓	38		
12	15			24		70	✓	44		
13	16			30		74	✓	48		

# NORANDA EXPLORATION CO. LTD.

LOCATION Tealuk Option  
Ontario

PROJECT MANNI-21 7-33 SHEET \_\_\_\_\_

MATERIAL \_\_\_\_\_

SAMPLE Nos. \_\_\_\_\_

COLLECTOR \_\_\_\_\_ DATE 1/1

ANALYST \_\_\_\_\_ DATE July 13/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Cu	4	5 Zn	6	7 Ni	8	G.C.I. NUMBER
✓ 14	16E-17S			30		84		42		
5	18			22		84		42		
6	19			42		86		44		
7	20			24		72		44		
8	21			22		76		40		
9	22			24		74		38		
20	23			20		66		38		
1	24			24		72		42		
2	25			32		60		36		
3	26			26		76		40		
4	27			40		76		50		
✓ 5	28S			30		62		38		
6	20E-25S			22		50		34		
7	24			24		70		38		
8	23			26		56		38		
9	22			20		68		36		
30	21			26		62		38		
1	13			26		58		38		
2	12			20		64		38		
3	11			22		64		40		
4	10			30		62		42		
5	8			22		76		38		
6	7			22		44		34		
7	6			22		56		36		
8	5S			22		74		32		
9	4N			18		46		28		
40	2			22		44		36		
1	3			18		72		38		
✓ 2	4N			22		76		36		

# NORANDA EXPLORATION CO. LTD.

LOCATION Testuk Option PROJECT MANN-71 7-33 SHEET \_\_\_\_\_  
Ontario  
 MATERIAL SOIL SAMPLE Nos. \_\_\_\_\_  
 COLLECTOR \_\_\_\_\_ DATE 1/1  
 ANALYST \_\_\_\_\_ DATE July 123/71

REMARKS \_\_\_\_\_

T.T. No.	SAMPLE No.	1	2	3 Cu	4	5 Zn	6	7 Ni	8	G.C.I. NUMBER
✓ 43	20E-5N			24		78		44		
4	6			22		68		42		
5	7			30		62		40		
6	8			22		82		38		
7	9			24		52		32		
✓ 8	10N			18		38		22		
9	26S			24		62		36		
✓ 50	11N			26		64		34		
1	24E-8			30		72		40		
2	7			20		74		36		
3	6			24		86		38		
4	5			28		76		42		
5	4			30		76		38		
6	3			26		76		36		
✓ 7	2N			22		64		38		
8	<sup>2F</sup> 20E-19S			22		46		34		
9	20			22		82		42		
60	21			22		100		34		
1	22			24		78		36		
2	23			20		44		30		
✓ 3	29E-24S			26		80		40		
✓ 4	28E-21S			30		62		40		
5	20			30		80		46		
6	19			24		76		40		
✓ 7	28E-18S			28		92		34		
8	<del>0E-10S</del>									
9	9									
70	8									
1	6									

*Checked*  
*July 17/71*

File 2.1073

RECEIVED

NOV 23 1972



42A14NE0078 2.1073 HANNA

900

TECHNICAL REPORT

PROJECTS SECTION

TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey GEOCHEMICAL - SOIL SAMPLING

Township or Area Mann and Hanna Townships

Claim holder(s) John Tesluk

90 Golfdown Dr., Apt. #3, Rexdale, Ont.

Author of Report E. A. Gallo

Address P. O. Box 1205, Timmins, Ontario

Covering Dates of Survey \_\_\_\_\_  
(linecutting to office)

Total Miles of Line cut 13.1

MINING CLAIMS TRAVERSED  
List numerically

- P. 235730 (prefix) (number)
- P. 235731
- P. 235732
- P. 235733 <sup>1/3 not covered</sup>
- P. 307674
- P. 307675
- P. 307676
- P. 308275
- P. 308276
- P. 308277 <sup>1/4</sup>
- P. 308280
- P. 308281
- P. 308419
- P. 308420

If space insufficient, attach list

SPECIAL PROVISIONS  
CREDITS REQUESTED

DAYS  
per claim

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

- Geophysical \_\_\_\_\_
- Electromagnetic \_\_\_\_\_
- Magnetometer \_\_\_\_\_
- Radiometric \_\_\_\_\_
- Other \_\_\_\_\_
- Geological \_\_\_\_\_
- Geochemical 20

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Oct. 17/72 SIGNATURE: E. A. Gallo  
E. A. Gallo Author or Agent

PROJECTS SECTION

Res. Geol. \_\_\_\_\_ Qualifications In this file

Previous Surveys 2.776 (E. 3 & mag) received

linecutting 2.776

Checked by \_\_\_\_\_ date \_\_\_\_\_

GEOLOGICAL BRANCH \_\_\_\_\_

Approved by \_\_\_\_\_ date \_\_\_\_\_

GEOLOGICAL BRANCH \_\_\_\_\_

Approved by \_\_\_\_\_ date \_\_\_\_\_

TOTAL CLAIMS 14

*Circled claim not covered no credit*

OFFICE USE ONLY

Show instrument technical data in each space for  
type of survey submitted or indicate "not applicable"

## GEOPHYSICAL TECHNICAL DATA

### GROUND SURVEYS

Number of Stations 625 Number of Readings Not Applicable  
Station interval 100'  
Line spacing 400'  
Profile scale or Contour intervals Not Applicable  
(specify for each type of survey)

### MAGNETIC

Instrument \_\_\_\_\_  
Accuracy - Scale constant \_\_\_\_\_  
Diurnal correction method \_\_\_\_\_  
Base station location \_\_\_\_\_

### ELECTROMAGNETIC

Instrument \_\_\_\_\_  
Coil configuration \_\_\_\_\_  
Coil separation \_\_\_\_\_  
Accuracy \_\_\_\_\_  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency \_\_\_\_\_  
(specify V.L.F. station)

Parameters measured \_\_\_\_\_

### GRAVITY

Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

### INDUCED POLARIZATION - RESISTIVITY

Instrument \_\_\_\_\_  
Time domain \_\_\_\_\_ Frequency domain \_\_\_\_\_  
Frequency \_\_\_\_\_ Range \_\_\_\_\_  
Power \_\_\_\_\_  
Electrode array \_\_\_\_\_  
Electrode spacing \_\_\_\_\_  
Type of electrode \_\_\_\_\_



**SELF POTENTIAL**

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

**RADIOMETRIC**

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth -- include outcrop map)

**OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)**

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

**AIRBORNE SURVEYS**

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken P.235730, P.235731, P.235732, P.235733,  
P.307674, P.307675, P.307676, P.308275, P.308276, P.308277, P.308280,  
P.308281, P.308419, P.308420.

Total Number of Samples 602

Type of Sample Soil  
(Nature of Material)

Average Sample Weight 10 oz.

Method of Collection Shovels

Soil Horizon Sampled B and C

Horizon Development Poor

Sample Depth 9"

Terrain Clay and Silty Clay Flats

Drainage Development Poor to Fair

Estimated Range of Overburden Thickness 0 - 200'

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis Drying,

Pulverizing (if Clays), Screening to

< 8, > 80 Mesh

General \_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

(Cu), Pb, (Zn), (Ni), Co, Ag, Mo, As, (circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (1806 tests)

Name of Laboratory Noranda Exploration Co.,

Extraction Method Potassium Bisulphate Ltd.

Analytical Method Dissolved in Hot Fusion

Reagents Used Diquinolyl HCl

General \_\_\_\_\_

142.M

MANN

14

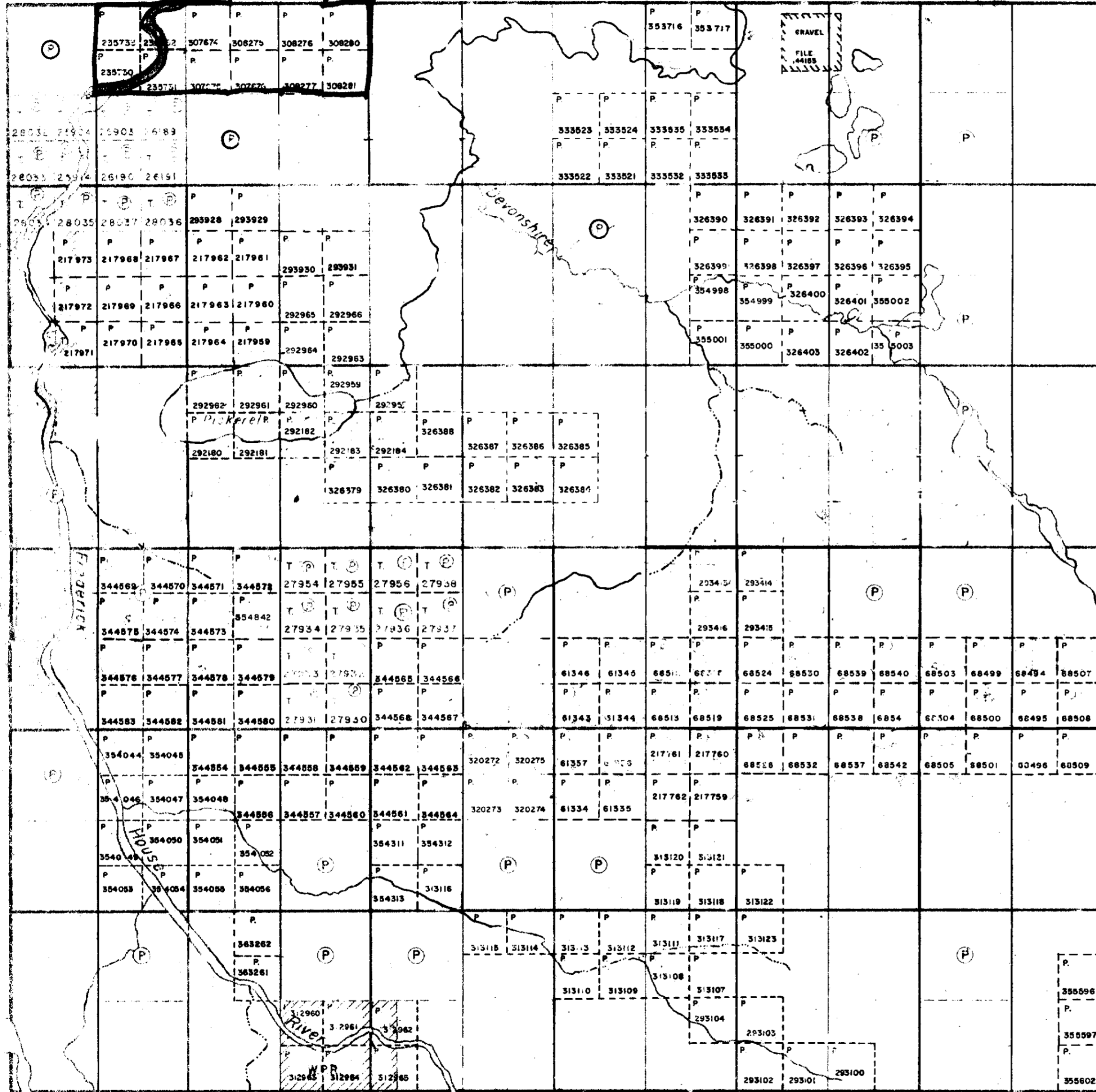
142.M

MANN

142.M

Hanna Twp.

Little Twp.



VI

V

IV

III

II

I

Newmarket Twp.

THE TOWNSHIP OF

**MANN**

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE CS
- LEASES Ⓛ
- LOCATED LAND Loc
- LICENSE OF OCCUPATION L.O.
- ROADS —
- IMPROVED ROADS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- WATER POWER RESERVE WPR

NOTES

400' Surface Rights Reservation about all Lakes and Rivers.

Water Power Reserve shown thus:

DATE OF ISSUE

NOV 27 1972

ONT. DEPT. OF MINES AND NORTHERN AFFAIRS

2.1073

PLAN NO. — M 54

ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS



42A14NE0078 2.1073 HANNA

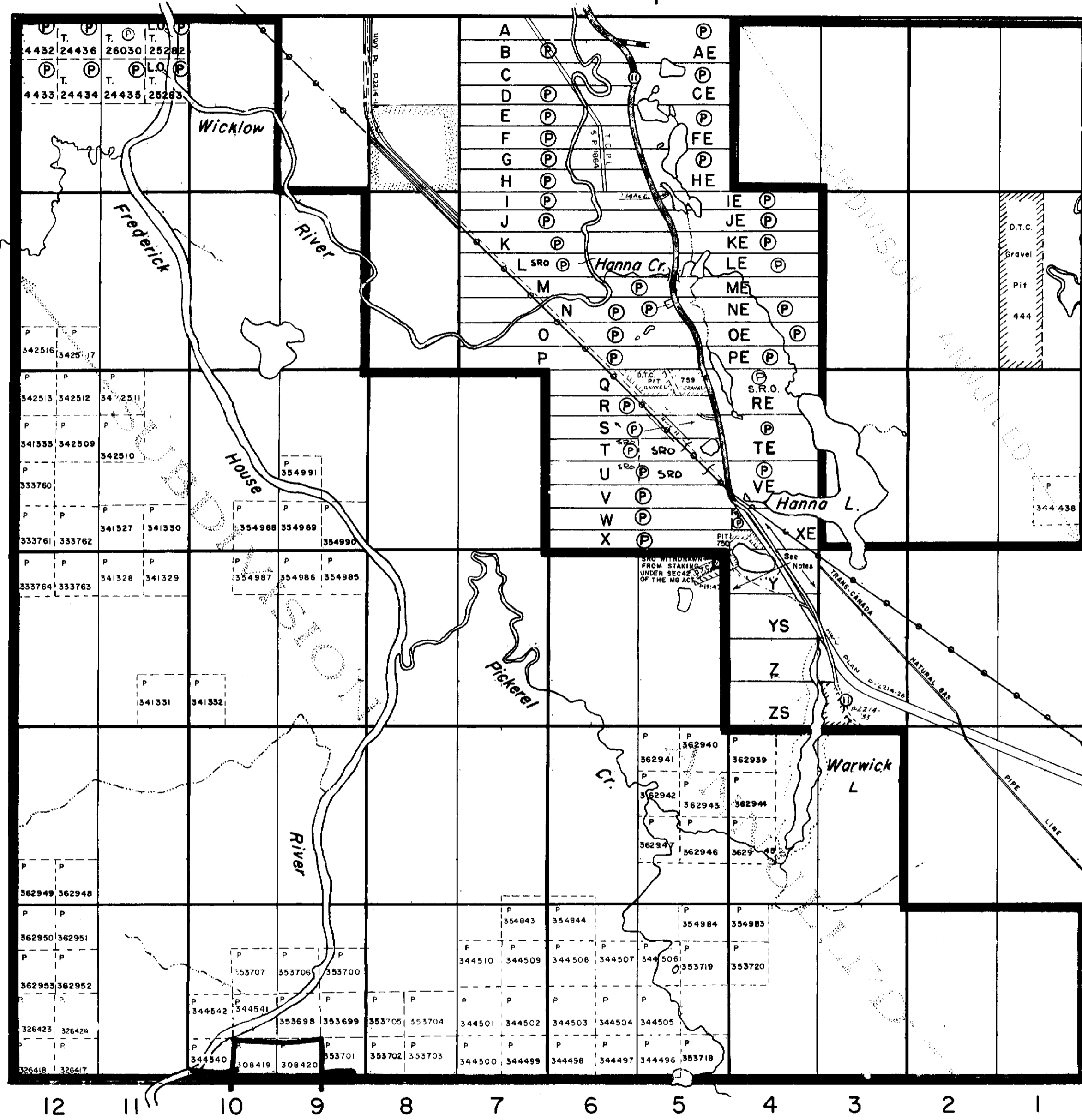
M-430

PT AMAH

M-430

J.G.

Reaume Twp.



THE TOWNSHIP  
OF  
**HANNA**  
DISTRICT OF  
COCHRANE  
PORCUPINE  
MINING DIVISION  
SCALE: 1-INCH= 40 CHAINS

**LEGEND**

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
ROADS	(Symbol)
IMPROVED ROADS	(Symbol)
RAILWAYS	(Symbol)
POWER LINES	(Symbol)
MARSH OR MUSKEG	(Symbol)
KING'S HIGHWAY	(Symbol)

**NOTES**

400' Surface rights reservation around all lakes & rivers.

REG. PLAN NO.-M. 57 COVERS LOTS "A" TO Z-S. IN CON. 3 TO CON. 6.

Surface Rights Only reserved to Dept of Lands & Forests shown thus: File 88767

See L. B. F. File: 96605-122598 Re Grave! Or Loc. XE & Loc. Y.

Area shown thus withdrawn from staking Section 42 Mining Act File 88769 & 88772

**DATE OF ISSUE**  
NOV 27 1972  
ONT. DEPT. OF MINES  
AND NORTHERN AFFAIRS

PLAN NO. - M 490

**ONTARIO  
DEPARTMENT OF MINES  
AND NORTHERN AFFAIRS**

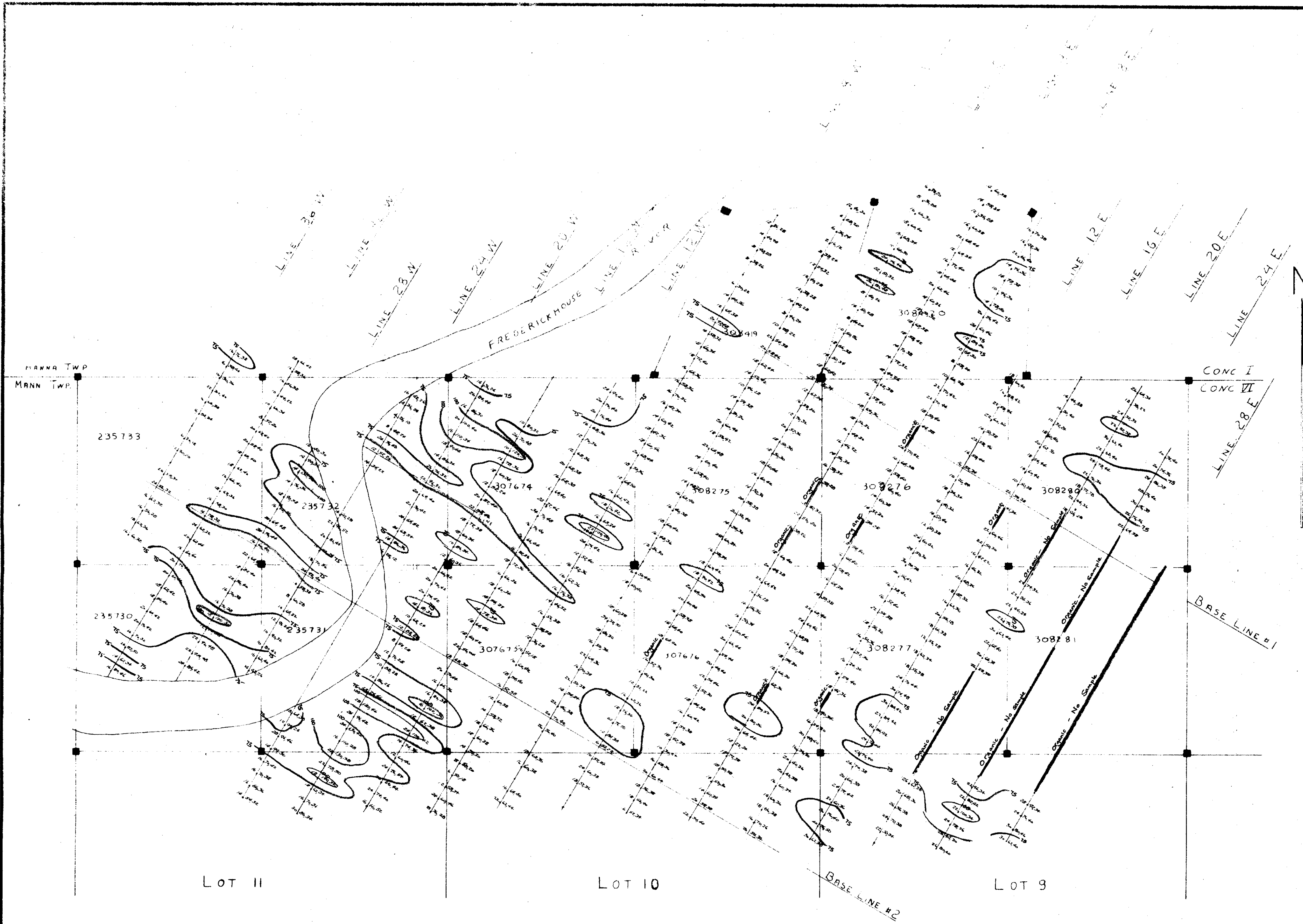
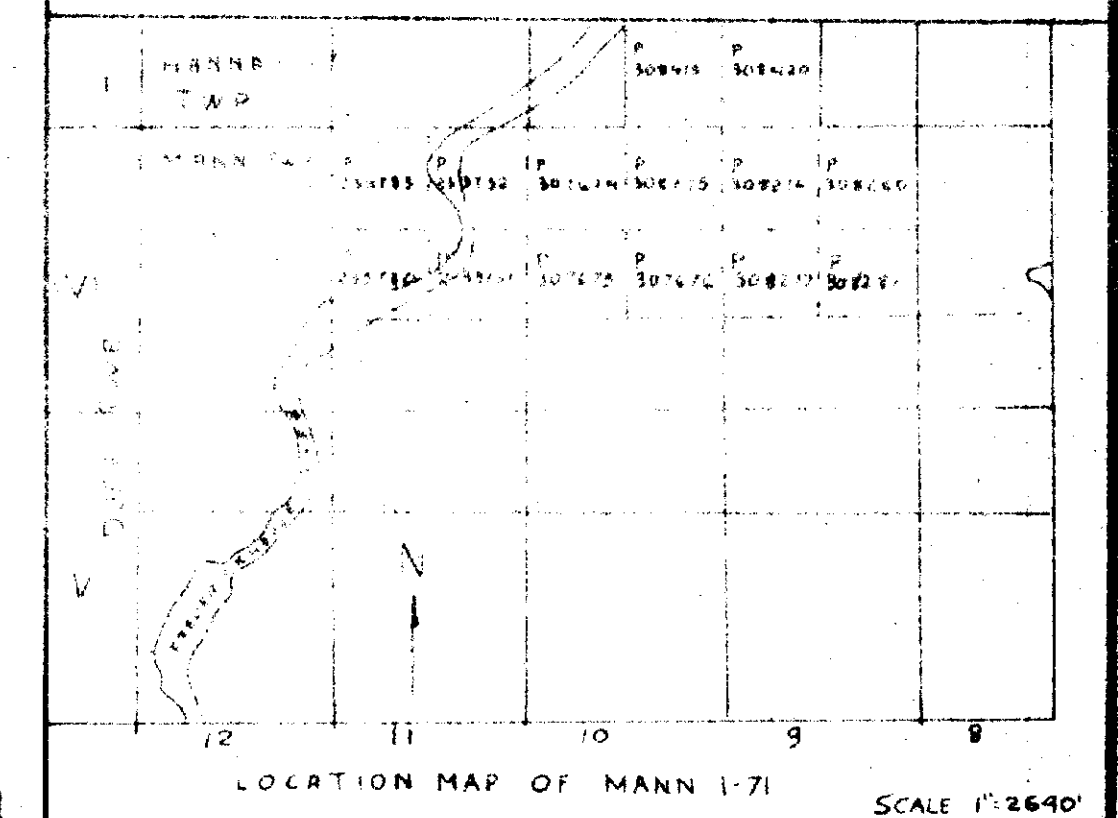
M-430

PT AMAH

M-430

2.1073

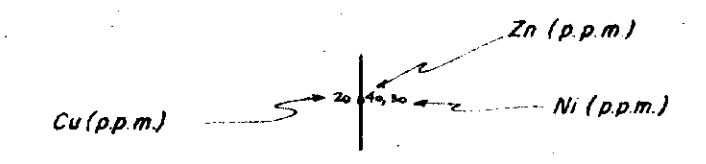




**LEGEND**

Course Fractions (<8>80)  
 Horizon Sampled - C Zone  
 Depth of Sampling - Approx. 12"  
 Values Shown are Total Metal  
 G.C.I. No. 16376

**ELEMENTS**



Organic Material - No Sample Taken

*Ed Halls*

**ZINC (P.P.M.)**

**COPPER (P.P.M.)**  
 6-19 p.p.m. Background  
 20-24 p.p.m. Threshold  
 25-54 p.p.m. Anomalous

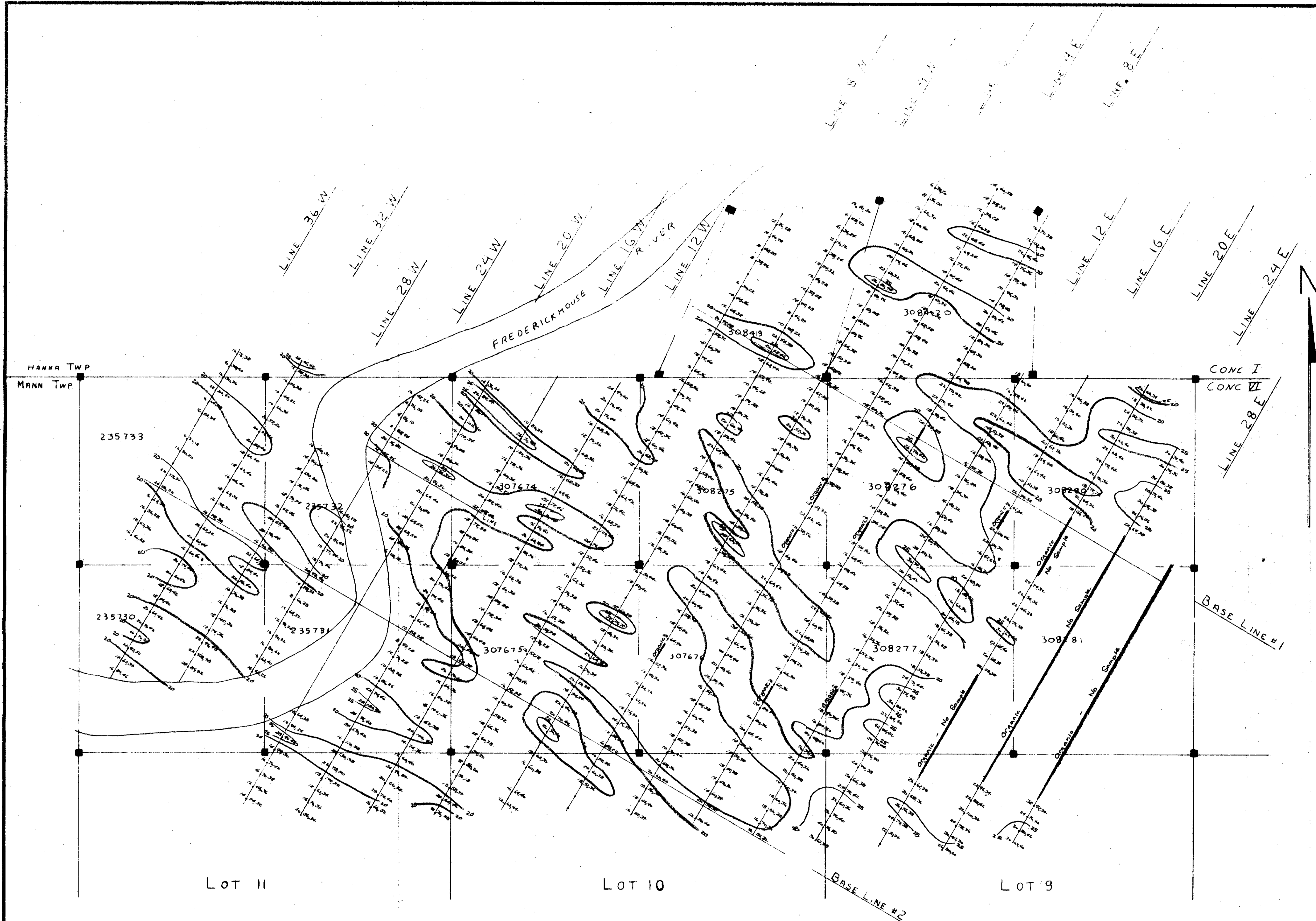
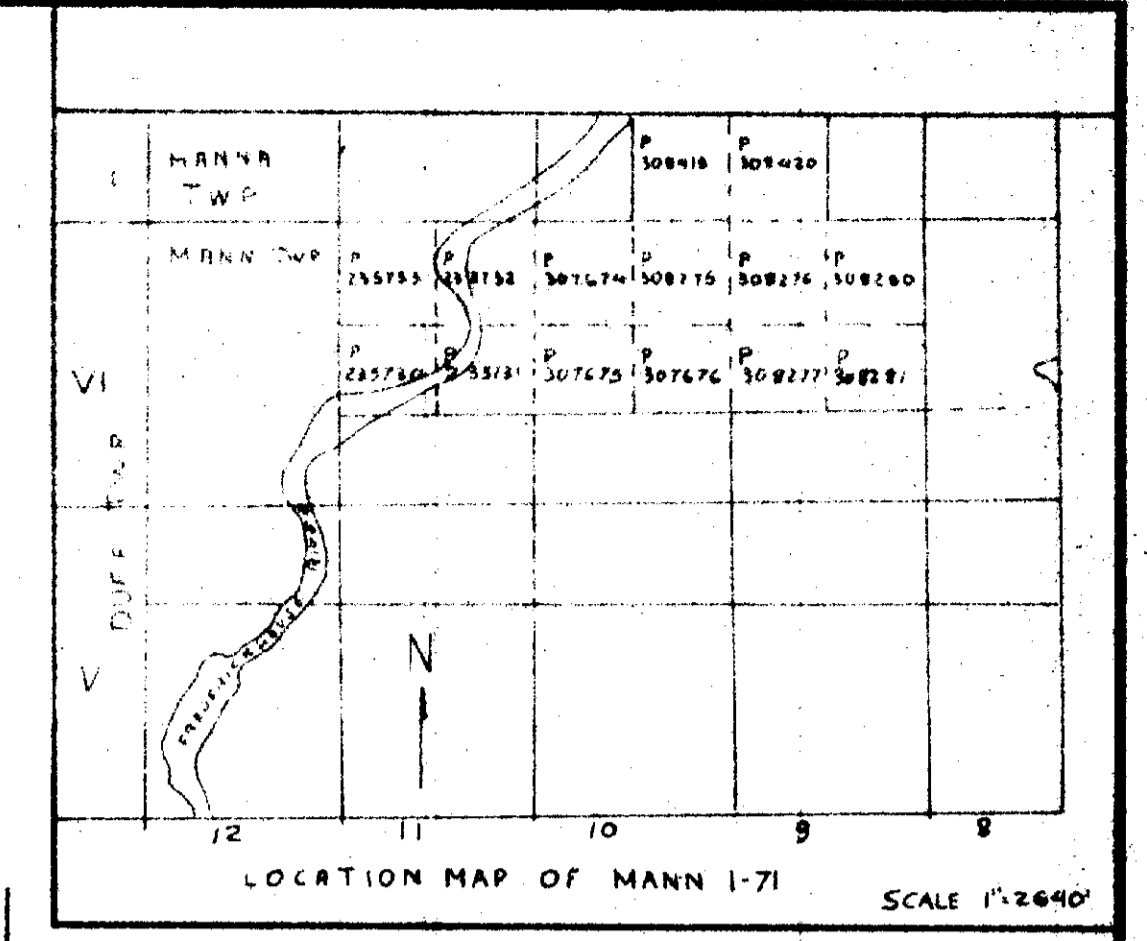
**ZINC (P.P.M.)**  
 16-74 p.p.m. Background  
 75-99 p.p.m. Threshold  
 100-180 p.p.m. Anomalous

**NICKEL (P.P.M.)**  
 12-39 p.p.m. Background  
 40-49 p.p.m. Threshold  
 50-54 p.p.m. Anomalous

REVISED	GEOCHEMICAL SURVEY MANN 1-71 TESLUK OPTION	
APPROVED		
	MANN TWP	ONTARIO
	PROJECT: MANN (TESLUK OPTION)	
PROJ. NO. 1952	SURVEYED BY: B. ANDERSON	DATE: FEB. 22, 72
N.T.S. 42 P. 19 B	DRAWN BY: B. MERCURI	SCALE: 1" = 400'
DWG. NO.	<b>NORANDA EXPLORATION CO. LTD.</b>	
	OFFICE: TIMMINS	ONTARIO



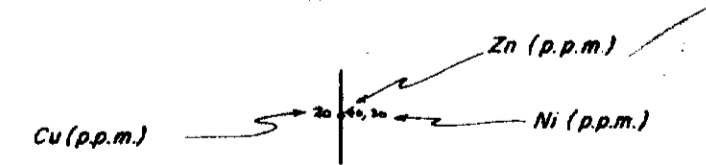
220



**LEGEND**

Course Fractions (< 8 > 80)  
 Horizon Sampled - C Zone  
 Depth of Sampling - Approx. 12"  
 Values Shown are Total Metal.  
 G.C.I. No. 16376

**ELEMENTS**



Organic Material - No Sample Taken

*J.M. Hall*

**COPPER (PPM)**

6-19 p.p.m. Background  
 20-24 p.p.m. Threshold  
 25-54 p.p.m. Anomalous



**ZINC (PPM)**

16-74 p.p.m. Background  
 75-99 p.p.m. Threshold  
 100-180 p.p.m. Anomalous

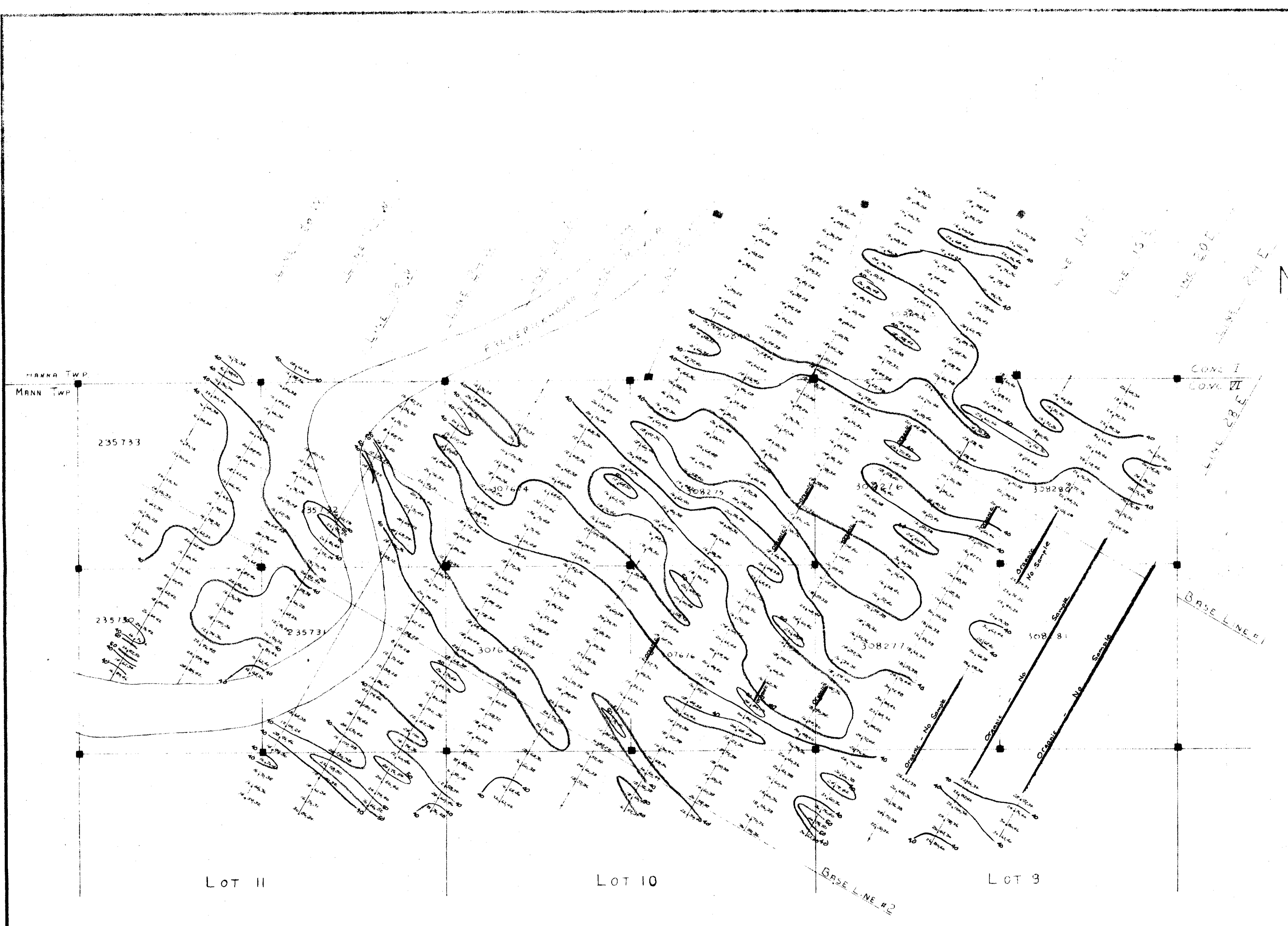
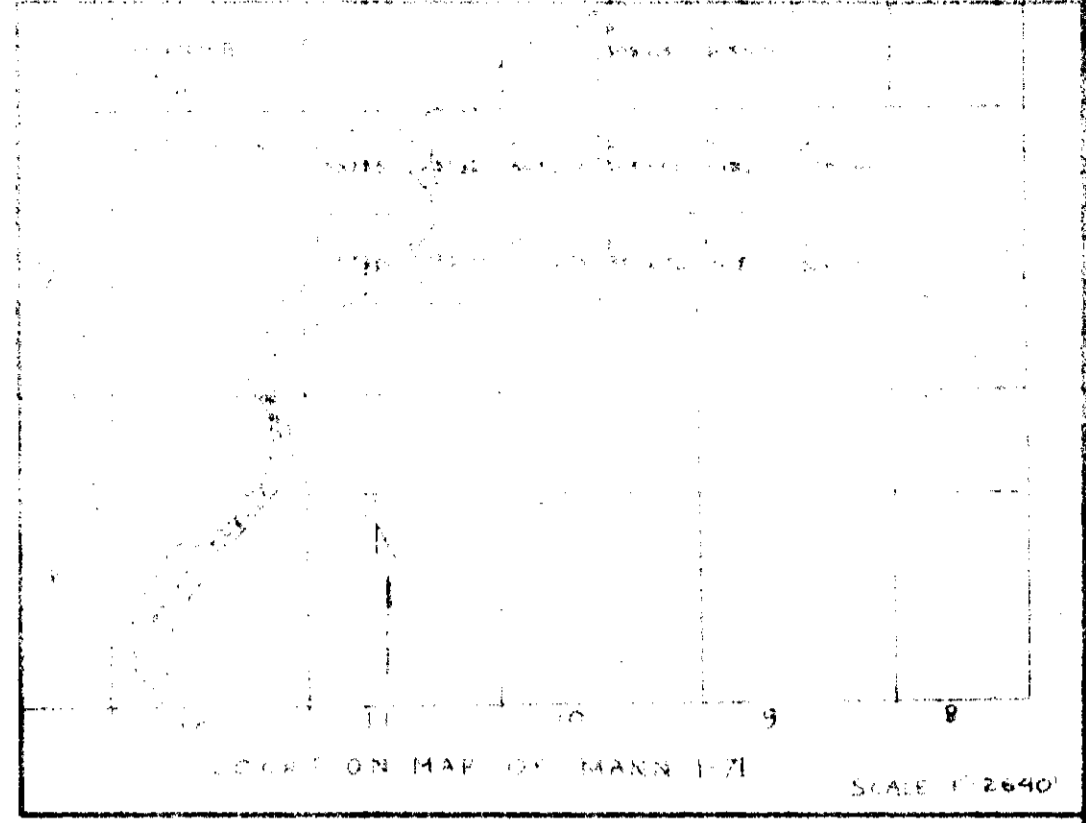
**NICKEL (PPM)**

12-39 p.p.m. Background  
 40-49 p.p.m. Threshold  
 50-54 p.p.m. Anomalous

**COPPER (P.P.M.)**

REVISED	GEOCHEMICAL SURVEY MANN 1-71 TESLUK OPTION	
APPROVED		
	MANN TWP	ONTARIO
	PROJECT: MANN (TESLUK OPTION)	
PROJ. NO 1952	SURVEYED BY: B. ANDERSON	DATE: FEB. 22, 72
N.T.S. 42.R.14.5	DRAWN BY: B. MERCURI	SCALE: 1" = 400'
DWG. NO	<b>NORANDA EXPLORATION CO. LTD.</b>	
	OFFICE: TIMMINS	ONTARIO

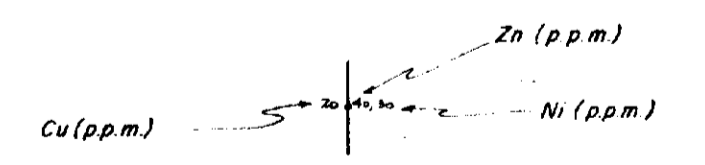




**LEGEND**

Course Fractions (< 8 > 80)  
 Horizon Sampled - C Zone  
 Depth of Sampling - Approx 12"  
 Values Shown are Total Metal  
 G.C.I. No. 16376

**ELEMENTS**



Organic Material - No Sample Taken

*PAHills*

**NICKEL (P.P.M.)**

**COPPER (P.P.M.)**

6-19pp.m. Background  
 20-24pp.m. Threshold  
 25-54pp.m. Anomalous

**ZINC (P.P.M.)**

15-74pp.m. Background  
 75-99pp.m. Threshold  
 100-180pp.m. Anomalous

**NICKEL (P.P.M.)**

12-39pp.m. Background  
 40-49pp.m. Threshold  
 50-54pp.m. Anomalous

REVISED	<b>GEOCHEMICAL SURVEY</b>	
APPROVED	MANN 1-71	
	TESLUK OPTION	
	MANN TWP	ONTARIO
	PROJECT: MANN (TESLUK OPTION)	
PROJ. NO 1952	SURVEYED BY: B. ANDERSON	DATE: FEB 22, 72
N.T.S. 42.8.14.15	DRAWN BY: B. MERCURI	SCALE: 1" = 400'
DWG. NO	<b>NORANDA EXPLORATION CO. LTD.</b>	
	OFFICE: TIMMINS	ONTARIO

