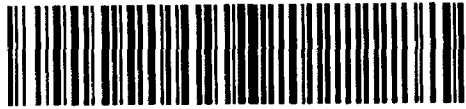


2.3571

S. E. MALOUF
CONSULTING GEOLOGIST



41009NW0025 2.3571 MALLARD

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MINING LANDS SECTION

SUMMARY REPORT

ON

A.I.M. INC. - KAPLAN PROJECT

MALLARD TWP., ONTARIO

SEPTEMBER 26, 1980

2.3174



Summary Report
on
A.I.M. INC. - KAPLAN PROJECT
Mallard Twp., Ontario
September 26, 1980

I N D E X

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Map 7	Surface Map (north part of property) - 1 inch = 20 feet
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SUMMARY REPORT

ON

A.I.M. INC. - KAPLAN PROJECT

MALLARD TWP., ONTARIO

SEPTEMBER 26, 1980

INTRODUCTION

A summary report on the A.I.M. Inc. - Kaplan Project was completed on October 30, 1979. Subsequent work has included staking an additional 19 claims for a total of 51 claims, which together with the original 13 patented claims brings the present holdings to a total of 64 claims, or approximately 2,560 acres as indicated in Appendix A and illustrated on Map 1. A thirteen-man camp was established at the bridge on the Opeepeesway River in Mallard Township in the south-central part of the holdings. The camp included two 40 x 10 foot trailers, one of which was set up as a sleep trailer for four men together with an office, and the other as a fully equipped cook and kitchen trailer. The camp also included two 12 x 14 foot tents with matching flies and portable floors.

An inventory has been prepared from the company's purchase records and is available in the company's files.

Work completed to date is as follows:

Claims staking	51 claims - total claims = 64
Line Cutting at 400 foot intervals, picketing at 100 feet	= 61.0 miles
Magnetometer	52 miles
E.M. VLF-2 (Annapolis, Maryland)	28.4 miles
E.M. VLF-1 (Cutler, Maine)	49.7 miles
Geological mapping	21 man days
Access Road to Main showing	1.5 miles
Hydraulicizing for bulldozing	28 man days
Bulldozer mobilization	22 hours
Bulldozing	70 hours
Area Bulldozed	180,000 square feet
Back hoe mobilization	22 hours
Back hoe	23 hours
Stripping outcrop	25.5 man days
Percussion drilling	1008 feet
Trenching	7886 cubic feet
X-ray D.D.H.	40 feet
Number of samples taken	222

Physical aspects of the property such as location access and previous history were in the report by S. E. Malouf Consulting Geologists Ltd. dated

October 30, 1979. Line cutting together with some magnetometer work was done during the winter, but major activity at the property commenced in June, 1980.

GENERAL GEOLOGY

The rocks of the area are an interbedded series of Keewatin acid pyroclastics and andesite flows. Some dyke material is suspected that could be parts of thick flows. Overtured folding is suspected striking north 45° west, dipping at 80° to vertical. North facings and north dips were encountered locally and distorted pillow facings show north dips.

The acid pyroclastics are generally thinly bedded with interbeds of chert and basic material. Some coarse mill rock pyroclastics were observed. Contacts with andesitic beds are consistently mineralized with considerable associated silicification and quartz veining in the area of the principal showing. ✓

A program of detailed mapping and sampling was instituted but unfortunately the camp was taken down before this could be completed. Details of the results obtained are shown on the 1" = 20' trench plan accompanying this report. In summary, these are as follows:

Trench No.	Distance from 20+00E	Length of Sample	Width of Sample	Grade Ozs Au/T	PERCUSSTION HOLES (Cuttings)		
					No. of Holes	Length of Sample	Average Grade Ozs Au/T
4	35.0	5.2	3.0	0.11	-	-	-
3	88.0	37	11.0	0.25	1	1.0	0.18
0	110.0	20	4.7	0.26	9	15.2	0.29
2	128.0	14.5	5.6	0.33	7	7.0	0.93 *
1	139.0	11.0	3.0	0.16	4	4.5	0.45
		134.50	5.66	0.23	21	9.75	0.45

GEOPHYSICS SURVEYS

Magnetometer - A G.P. 7.0 McPhar Proton Procession Magnetometer was used throughout measuring the vertical component of the magnetic field on lines 400 feet apart with 100 foot stations. The values obtained were contoured at 100 gamma intervals. A pronounced linear pattern was observed coinciding well with the geology. Some cross faulting is suspected and some spurious high readings suggest patchy iron formation. Follow up work will find the magnetometer data of considerable value.

E.M. - VLF-1 and 2 - A Geonics EM-16 unit was utilized throughout with Frequency 1 on the transmitter station at Cutler, Maine and Frequency 2 from Annapolis, Maryland. Some areas seemed to respond better to one station than the other with the best anomaly definition in the Main Zone

area being from Frequency 2. A decision was made to contour results with the Fraser Filter method rather than using straight profiles on the raw data. This proved very helpful, the results giving consistent Fraser Filter anomalies over the pyritized acid volcanics, particularly with equipment orientated towards the Annapolis, Maryland station. Unfortunately, this station was not operating consistently throughout the survey period. Heavy rainfall made some swamp areas impassable and follow up winter work should prove helpful.

Particular attention should be directed to the Fraser Filter anomaly through lines 24+00 E to 36+00 E 900 feet northeast of the Main Zone. This corresponds with an excellent resistivity anomaly obtained in the work completed by Geo-Technical Consultants in 1963 and is probably a strongly conductive zone. The resistivity data is duplicated in this report for completeness.

Bulldozing revealed a strong shear zone immediately northeast of the main showing that may have a reflection in the Fraser Filter anomaly.


Considerable followup work is required but all Fraser Filter anomalies should be detailed and exposed by rock trenching or diamond drilling. The F-2 survey should be completed on the excellent showing between lines 4+00 W and 4+00 E west of the river.

CONCLUSIONS AND RECOMMENDATIONS

The main showing has responded excellently to initial sampling. The 0.23 ounces gold per ton over 5.7 feet for a length of 134.5 feet represents incomplete coverage of a strong zone of mineralization. The percussion drilling suggests better widths and grade and formal rock trenching should have been completed.

All ten holes directed at assessing the main showings in 1933 and 1958 were drilled from southwest to northeast. Logs and sections are included with this report for completeness, but it is obvious that a moderate change in strike or a north dip would place the mineralization beyond the drilling at depth. The likelihood of this having happened will be supported by detail mapping. It can be checked readily by 3,000 feet of drilling at an approximate cost of \$60,000. Detailing the Fraser Filter anomalies, prospecting and follow up drilling along the Main Zone and other zones will involve an additional \$100,000 to \$300,000 and is considered well warranted.

Respectfully Submitted,


S. E. Malouf,
S. E. Malouf Consulting Geologists Ltd.

KAPLAN HOLDINGS - MALLARD TWP.

Patented Claims - 53388
37427
37428
37429
37430
37431
37432
37433
37434
24797
24798
24799
24800

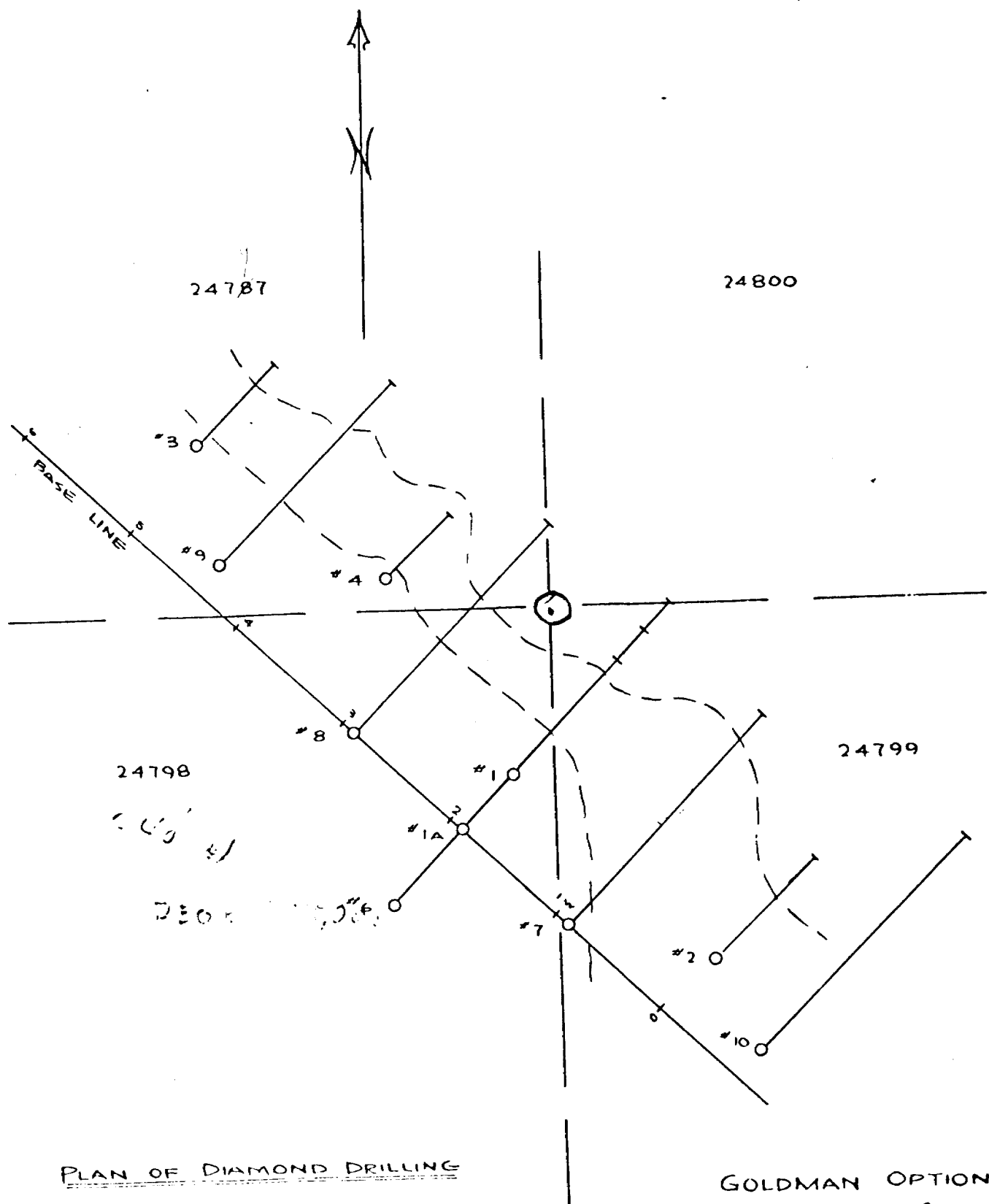
Total - 13 Claims (Patented)

New Claims Staked (with date of staking)

545427	-	October 7, 1979	544307	-	October 14, 1979
545228	-	October 7, 1979	544308	-	October 14, 1979
545429	-	October 7, 1979	544309	-	October 14, 1979
545430	-	October 7, 1979	544310	-	October 15, 1979
545431	-	October 7, 1979	544311	-	October 15, 1979
545432	-	October 8, 1979	544312	-	October 15, 1979
545433	-	October 8, 1979	544313	-	October 15, 1979
545434	-	October 8, 1979	544314	-	October 15, 1979
545435	-	October 8, 1979	548421	-	January 17, 1980
545436	-	October 8, 1979	548423	-	January 17, 1980
545437	-	October 16, 1979	548425	-	January 17, 1980
545438	-	October 16, 1979	548430	-	January 17, 1980
545439	-	October 16, 1979	548431	-	January 18, 1980
545440	-	October 16, 1979	548432	-	January 18, 1980
545475	-	October 14, 1979	548433	-	January 18, 1980
545476	-	October 14, 1979	548434	-	January 18, 1980
545477	-	October 14, 1979	548435	-	January 18, 1980
545478	-	October 14, 1979	548436	-	January 19, 1980
545484	-	October 15, 1979	548437	-	January 19, 1980
545485	-	October 15, 1979	548438	-	January 19, 1980
545486	-	October 15, 1979	545439	-	January 19, 1980
545487	-	October 15, 1979	548440	-	January 20, 1980
544305	-	October 14, 1979	548442	-	January 20, 1980
544306	-	October 14, 1979	548450	-	January 17, 1980
			565299	-	August 28, 1980
			565300	-	August 28, 1980
			565301	-	August 28, 1980

Total - 51 Claims (Staked)

Total Kaplan Holdings - 64 Claims

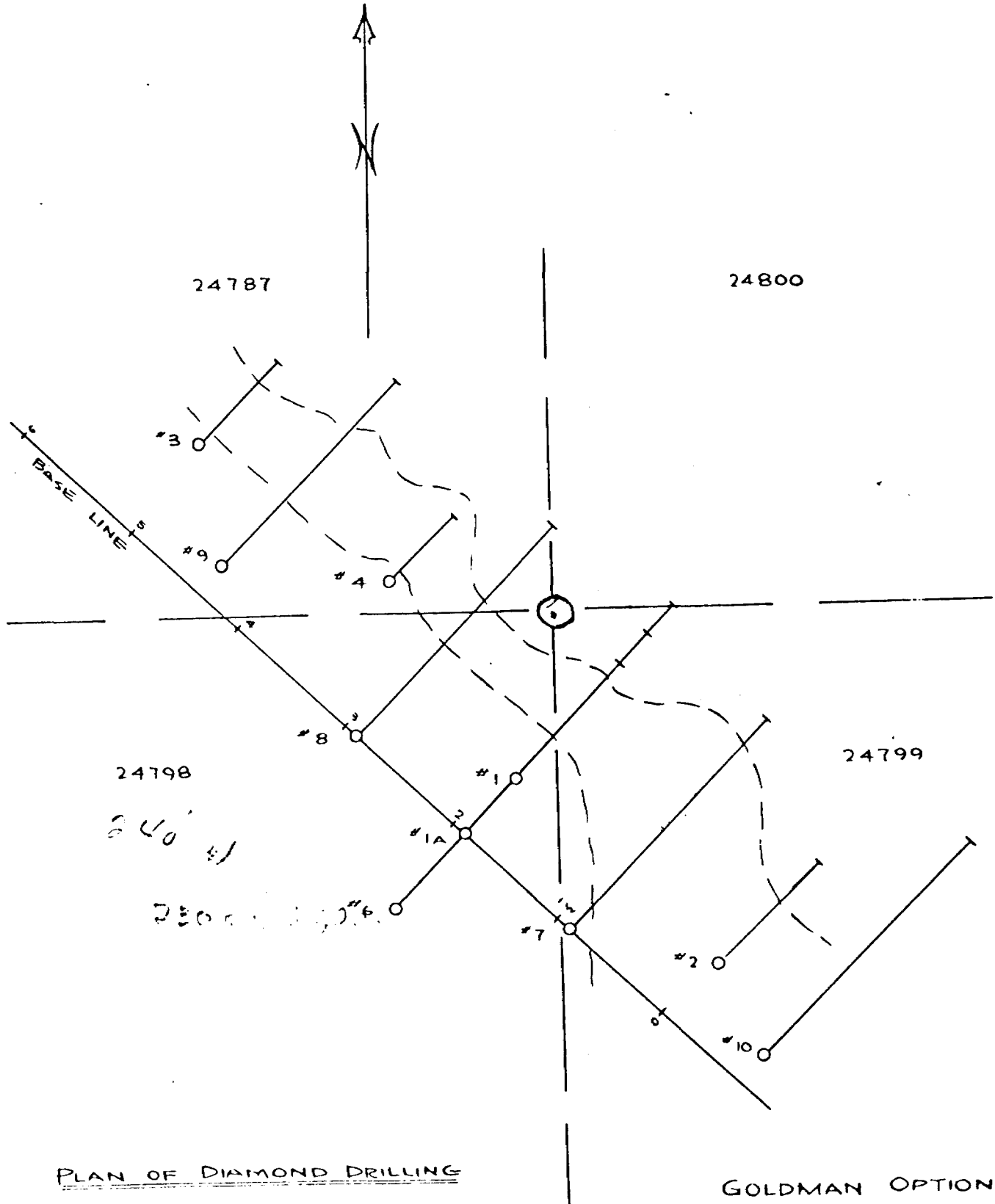


PLAN OF DIAMOND DRILLING

HOLES 6 TO 10 COMPLETED
 BY TECK EXPLORATION CO LTD
 IN JUNE 1958

GOLDMAN OPTION
 MALLARD TWP. ONTARIO

SCALE 1" = 100'



PLAN OF DIAMOND DRILLING

HOLES 6 TO 10 COMPLETED
 BY TECK EXPLORATION CO LTD
 IN JUNE 1958

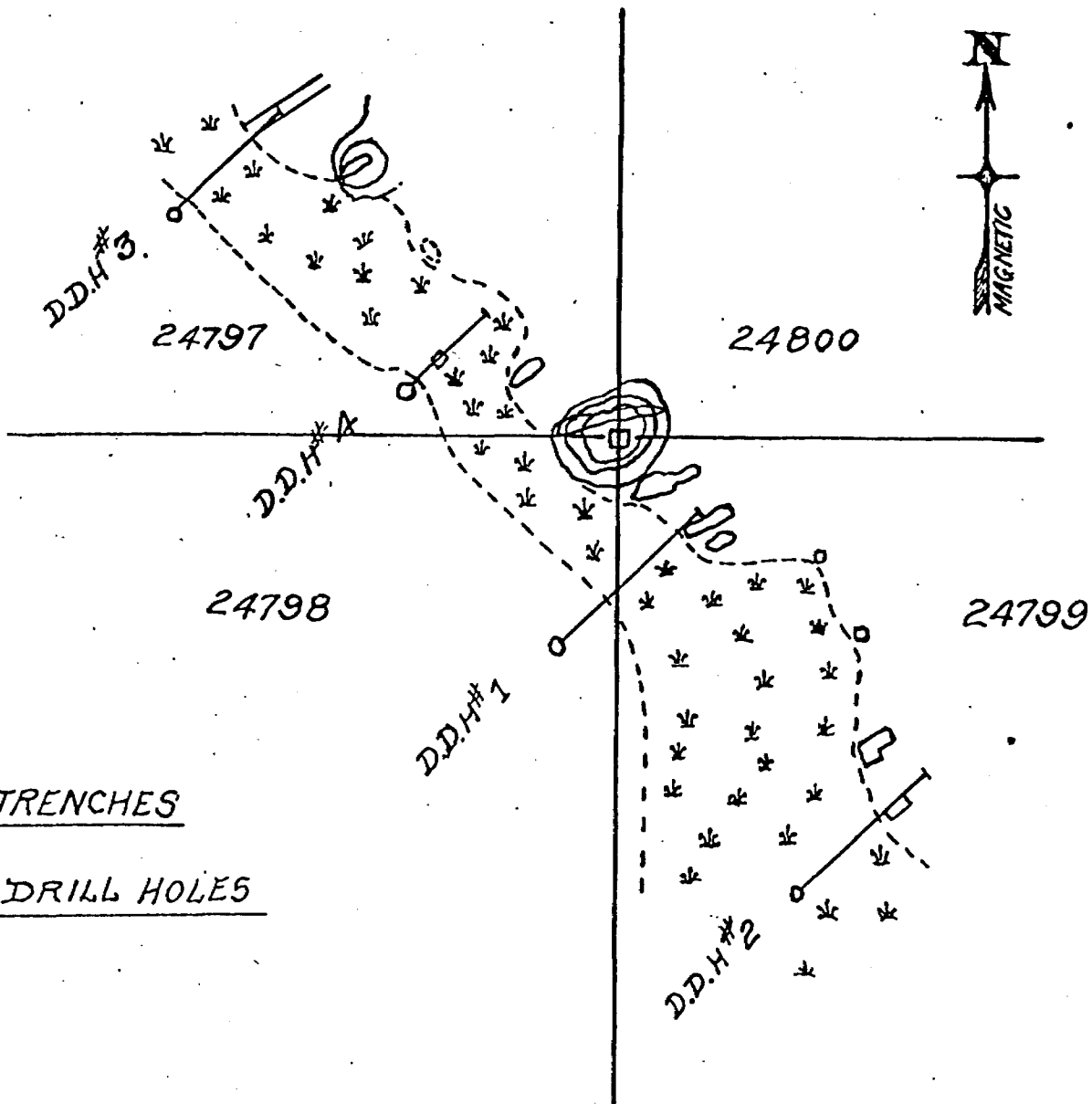
GOLDMAN OPTION
 MALLARD TWP ONTARIO

SCALE 1" = 100'

SKETCH PLAN
FERLAND OPTION

MALLARD TOWNSHIP.
ONT.

SCALE 1" = 100'



SHOWING TRENCHES
&
DIAMOND DRILL HOLES

DIAMOND DRILL HOLE No.1.
FERLAND OPTION.

MAILLARD TOWNSHIP
ONT.

TRENCH

SWAMP

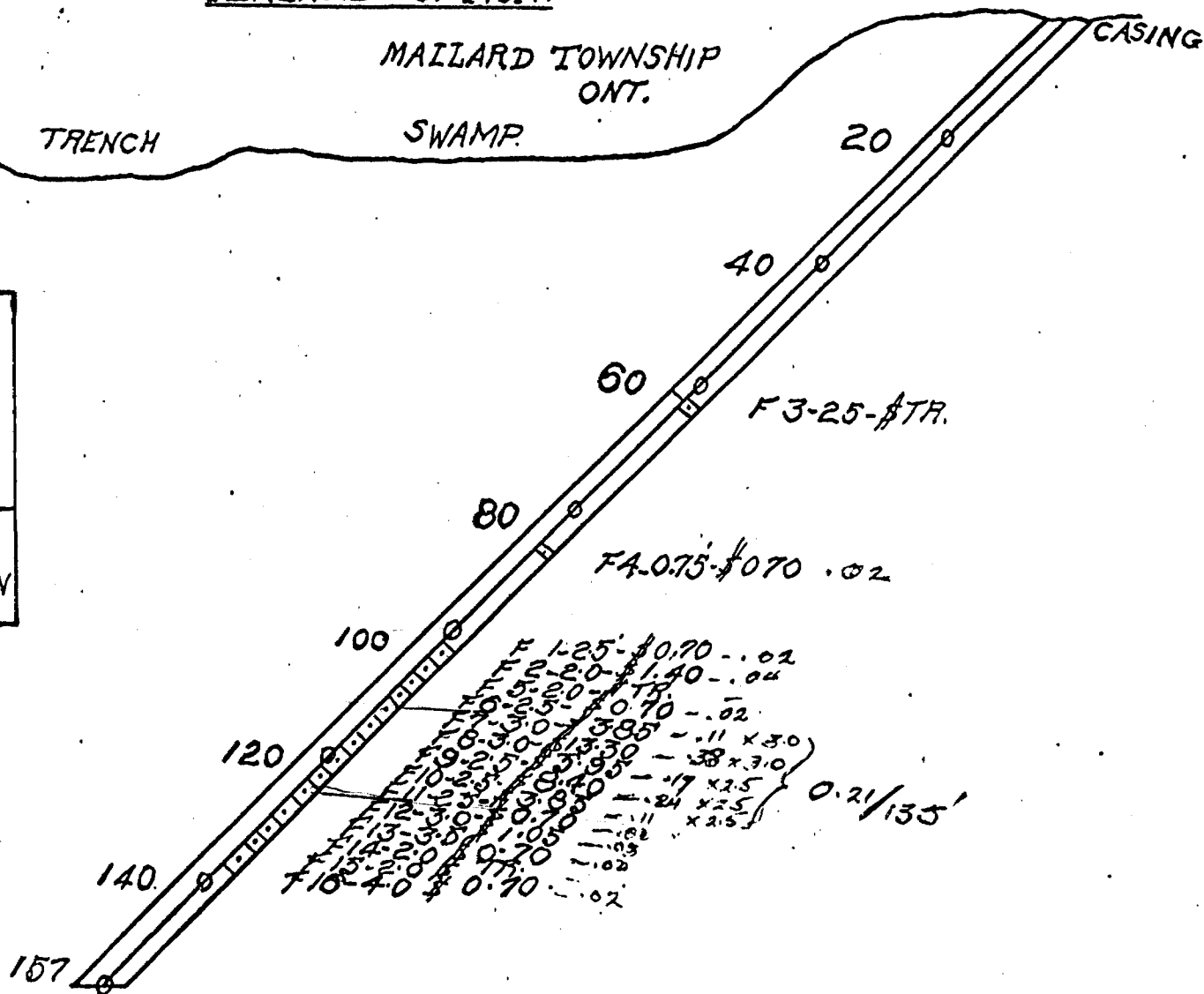
CASING

LEGEND

KEEWATIN

- DIABASE
MEDIUM GRAINED
- AXOESITE
- ASH ROCK
- LAMPROPHYRE DIKE
- PYRITIC MINERALIZATION

SCALE 1" = 20'



DIAMOND DRILL HOLE No. 2.
FERLAND OPTION.

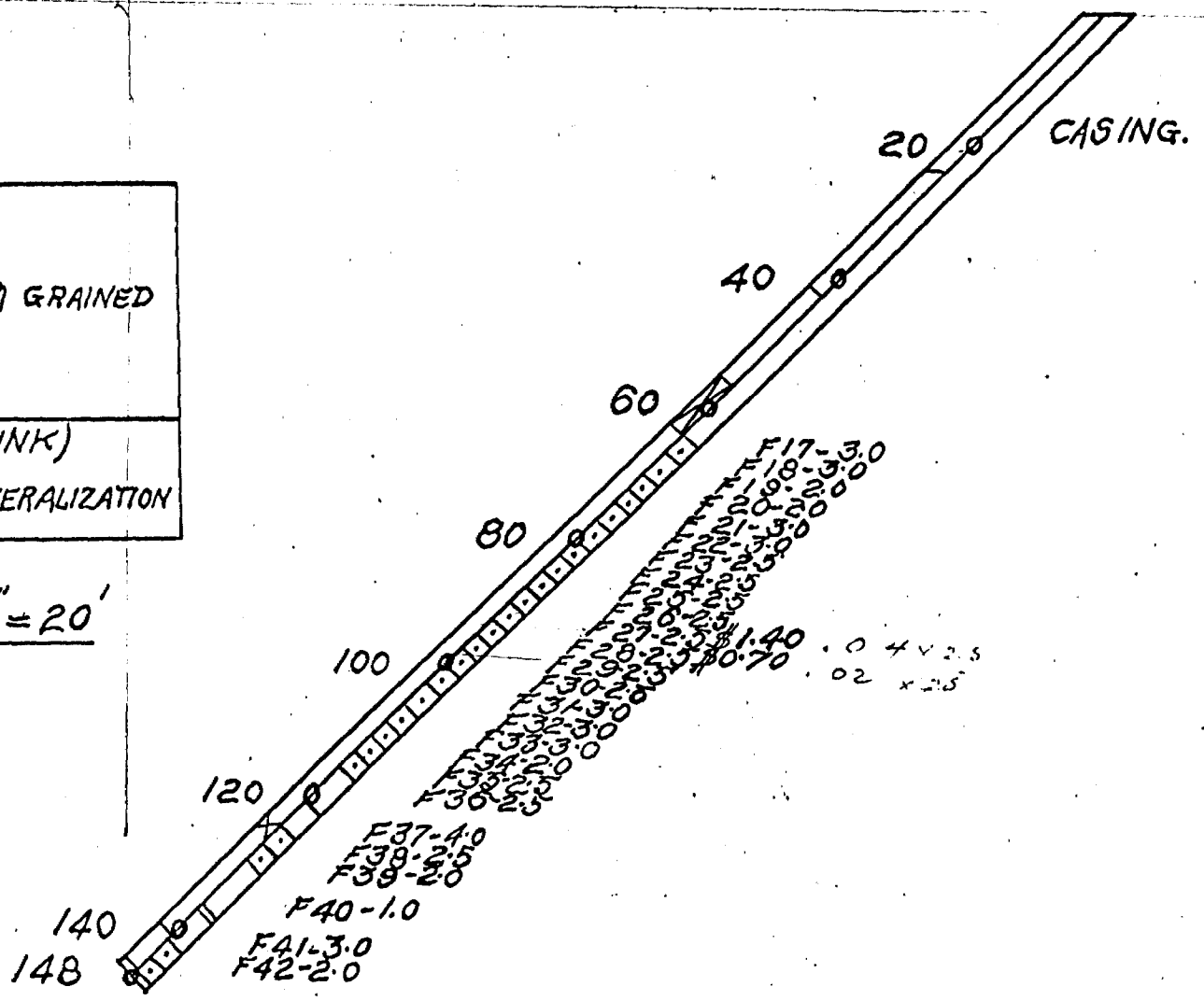
MALLARD TOWNSHIP,
 ONT.

LEGEND

KEEWATIN.

- DIABASE MEDIUM GRAINED
- ANDESITE
- ASH ROCK
- FELSITE (PINK)
- PYRITIC MINERALIZATION

SCALE 1" = 20'



- SLUDGE SAMPLES
- F43-55-60
 - F44-120-125-# 0.70
 - F40-125-130
 - F46-130-135

DIAMOND DRILL HOLE No. 3.
FERLAND OPTION

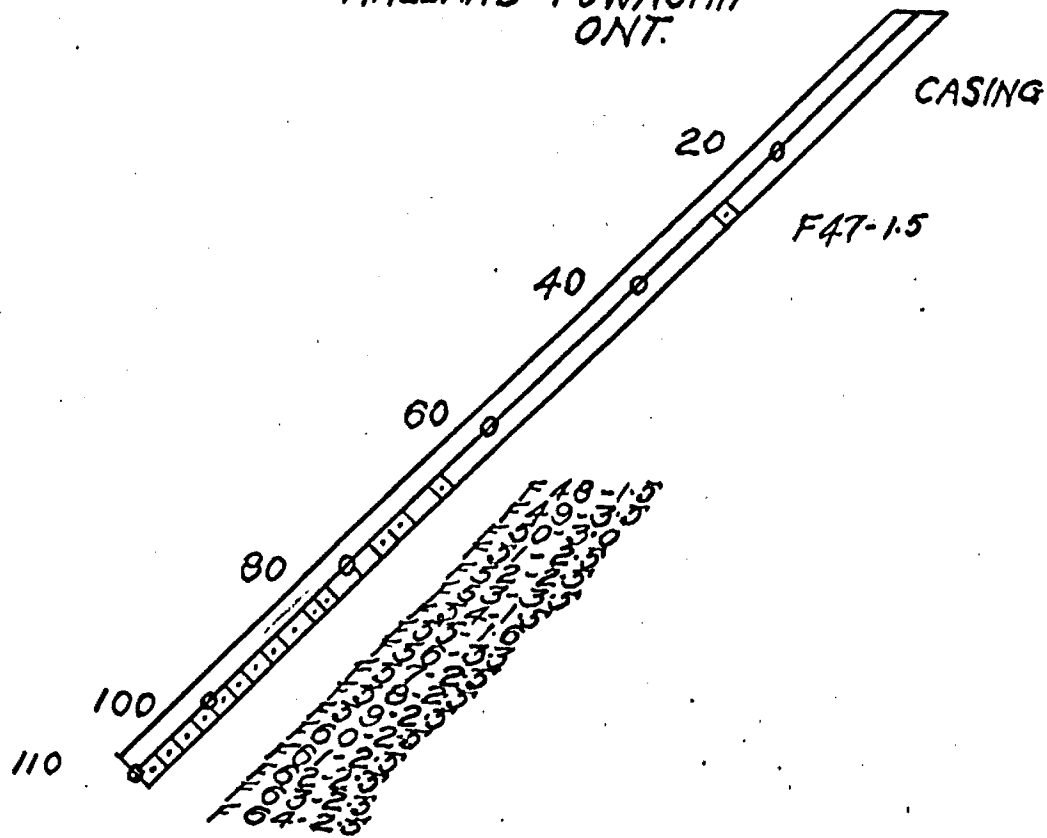
MALLARD TOWNSHIP
ONT.

LEGEND.

KEEWATIN

- DIABASE
MEDIUM GRAINED
- ANDESITE
- ASH ROCK
- FELSITE
- PYRITIC MINERALIZATION

SCALE 1" = 20'



DIAMOND DRILL HOLE No. 4.
FERLAND OPTION

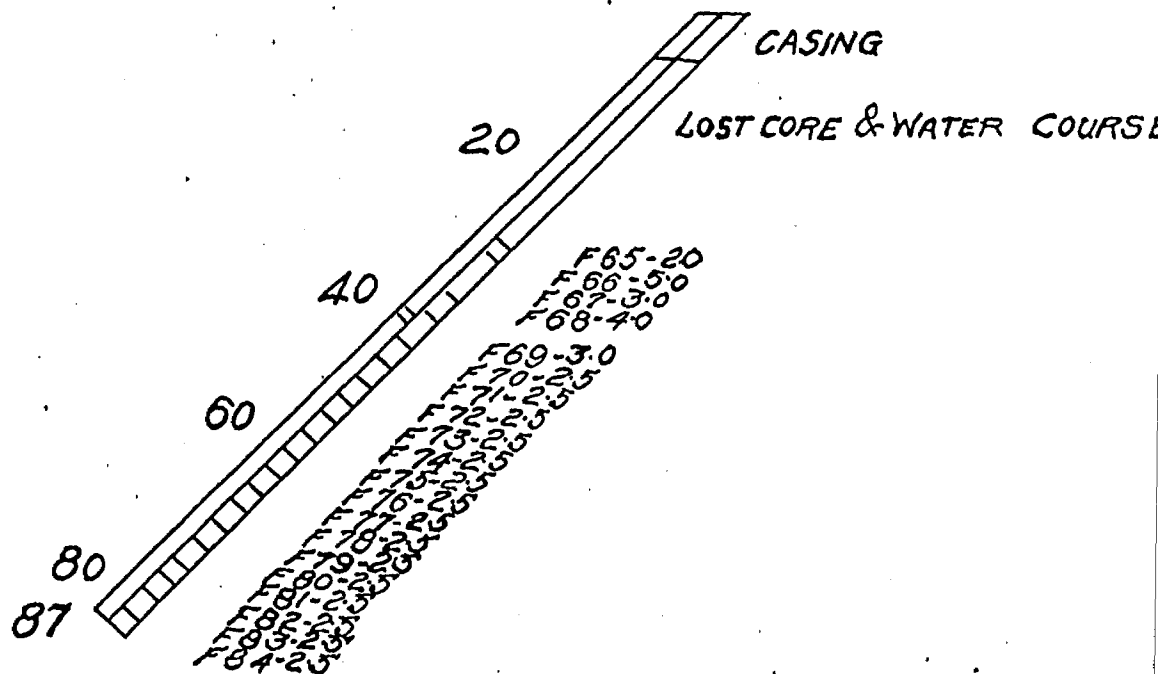
MALLARD TOWNSHIP
ONT.

LEGEND

KEEWATIN

- DIABASE
MEDIUM GRAINED
- ANDESITE
- ASHROCK
- FELSITIC BANDS
- PYRITIC MINERALIZATION

SCALE 1" = 20'



MINE GOLDMINE CREEK.

REMARKS

LEVEL DRILL SIZE

LOCATION Mallard Twp. CORE SIZE
Cnt.

COMMENCED 27 May 53.

COMPLETED 4 June 53.

FOOTAGE	DIP	AZ
0.0	-30°	
100.0	-52°	
300.0	-45°	
447.0	-41°	

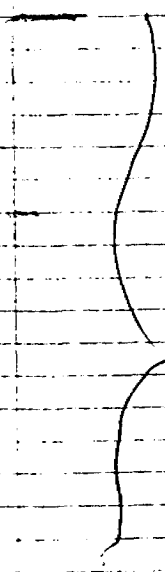
DIAMOND DRILL RECORD

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		Sul.	No.	From
0.0	11.0	Casing.			
11.0	67.0	Tuff, greenish colour, light and dark bands, banding varying between 40° to 60° to core. Greenish minerals about 4.5 hardness, lighter bands mostly quartz grains. Some sericite and chlorite on slips. Fine cubes of pyrite throughout. 11.0-22.0' - Patches of quartz. 22.0-23.4' - Darker, more siliceous. 30.0' - Quartz filled fractures. 23.0' - Fractured. 24.0' - Fractured. 29.0' - Fractured.			
67.0	85.0	Tuff, banded, very siliceous, glassy, light quartz and brownish coloured quartz (almost a chert). Some sections pyrite in fine cubes. 70.0-73.0' - Appearance of rhyolite. 73.0-75.0' - Chlorite schist. 76.0-85.0' - Argillaceous, no pyrite, some quartz, very soft. Sericite 76.0 to 78.0'. More siliceous.	7410		67.0
			7411		72.0
			Lost core		74.5
			74.12		76.0
			Lost core		73.0
			7413		77.5
			Lost core		81.0
85.0	103.5	83.0' - Becoming chloritic, 89.0-101.5' - Chlorite.	7414		82.0
			Lost core		83.0
			7415		85.0
103.5	143.0	Tuff, banded, much alteration, some chlorite and sericite. Not as siliceous as above. 104.0-110.0' - Very light colour, soft, banding wavy, carbonated. 108.0' - 4" quartz, white and buff. 110.0' - Becoming darker coloured, green with light bands. 112.0-112.5' - Light coloured, yellowish, soft, carbonated. 112.5-114.0' - Dark green, some light bands. 114.0-115.0' - Buff to pink coloured, siliceous. 121.0-121.5' - White quartz. 123.0' - 3" white quartz with pyrite.	7416		85.5
			Lost core		87.0
			7417		88.0
			Lost core		89.5
			7418		90.0
			Lost core		92.0
			7419		93.0
			Lost core		95.5
			7420		96.0
			7421		100.0
143.0	145.0	Porphyritic band, green, medium grained with very hard red phenocrysts.			
145.0	179.2	Tuff, banded, some very dark sections. 147.5' - Becoming harder with fair pyrite along bands. 160.0-175.0' - Very siliceous. 160.0-160.5' - Buff coloured with pyrite. 167.5' - Chlorite, schisted. 169.5-172.0' - Schisted, pyrite in bands. 175.0-177.0' - Like andesite, banded. 177.0-179.0' - Grey and white banding. 179.0' - 6" red banded rhyolite.	7426		160.5
			7427		165.5
			7428		170.5
			7429		175.5
179.2	211.0	Andesite, some banding, probably another phase of tuff, green.			
211.0	241.0	Tuff, green as above, but with more white banding.			

DEPTH	FOOTAGE	DIP	AZIMUTH

LATITUDE 1 + 90 N.W. HOLE NO. 6
 DEPARTURE 0 + 70 S.W. LENGTH 447.0 FEET
 ELEVATION Surface SHEET NO. 1.
 AZIMUTH 70° SW of hole LOGGED BY A.J. Walker
 DIP -60° # 1-A

DEPTH	To	length	COPPER		ZINC		LEAD		SILVER		GOLD	
			%	Cum.	%	Cum.	%	Cum.	oz 100%	Cum.	oz 100%	Cum.
72.0		5.0										N11
74.5		2.5										N11
76.0		1.5										N11
78.0		2.0										N11
79.5		1.5										N11
81.0		1.5										N11
82.0		1.0										N11
83.0		1.0										N11
85.0		2.0										N11
85.5		0.5										N11
87.0		1.5										N11
88.0		1.0										N11
89.0		1.0										N11
89.5		0.5										N11
90.0		0.5										N11
92.0		2.0										N11
93.0		1.0										N11
95.5		2.5										N11
96.0		0.5										N11
100.0		4.0										N11
103.5		3.5										N11
165.5		5.0										N11
170.5		5.0										N11
175.5		5.0										N11
179.5		4.0										N11



18.25'
 rest core 10.5'
 at 57.0'

MINE 3012-111-05-1000:

REMARKS

LEVEL

DRILL SIZE

COMMENCED 27 May 58.

LOCATION Mallard Twp.
Ont.

CORE SIZE

COMPLETED 4 June 58.

FOOTAGE
0.0
100.0
300.0
447.0

DIAMOND DRILL RECORD

FOOTAGE		DESCRIPTION	%	
FROM	TO		Sul.	No.
		181.0' - Quartz stringer.		
		198.0' - Quartz stringer.		
		205.0-205.5' - Quartz pebbles, some fine pyrite, chalcopyrite.		
		213.0' - Quartz stringers.		
		210.0-211.0' - Reddish banding.		
		214.0-216.6' - Quartz stringer.		
		220.0' - Becoming coarse grained.		
		226.4' - Quartz stringer.		
		223.0' - 2" red siliceous band.		
241.0	261.5	Tuff, banded, very hard, glassy, grey to black with some red to buff bands, pyrite throughout.		
261.5	280.0	Tuff, appearance of andesite, but with light and dark banding.		
280.0	348.0	Andesite, coarse grained, less banding than tuff. Some sections with considerable pyrite.		
		284.0-285.3' - Quartz stringer with some fine pyrite and chalcopyrite.		
348.0	362.4	Tuff, banded, very hard and siliceous, dark grey and buff, some sections like rhyolite, partly schisted, banding wavy, pyrite fine, throughout. Some quartz-filled fractures.		7430 7431 7432 7433
362.4	408.0	Rhyolite (?), pink coloured, very hard, siliceous, fine grained to glassy. Pyrite grains throughout. Some dark green bands of schist. Some chlorite on slips.		Lost c 7434 7435 Lost c
408.0	447.0	362.4-375.0' - Schisted. Tuff, fine grained, banded, green to dark green. Banding 45° to core. Sparse pyrite.		7436 7437 7438
		418.0-427.0' - Pink bands of rhyolite above.		
		429.0-447.0' - " " " " " "		
		423.0' - Quartz stringer.		
		427.0-429.0' - Andesite.		
447.0		END OF HOLE.		

DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
50°				
54°				
45°				
41°				

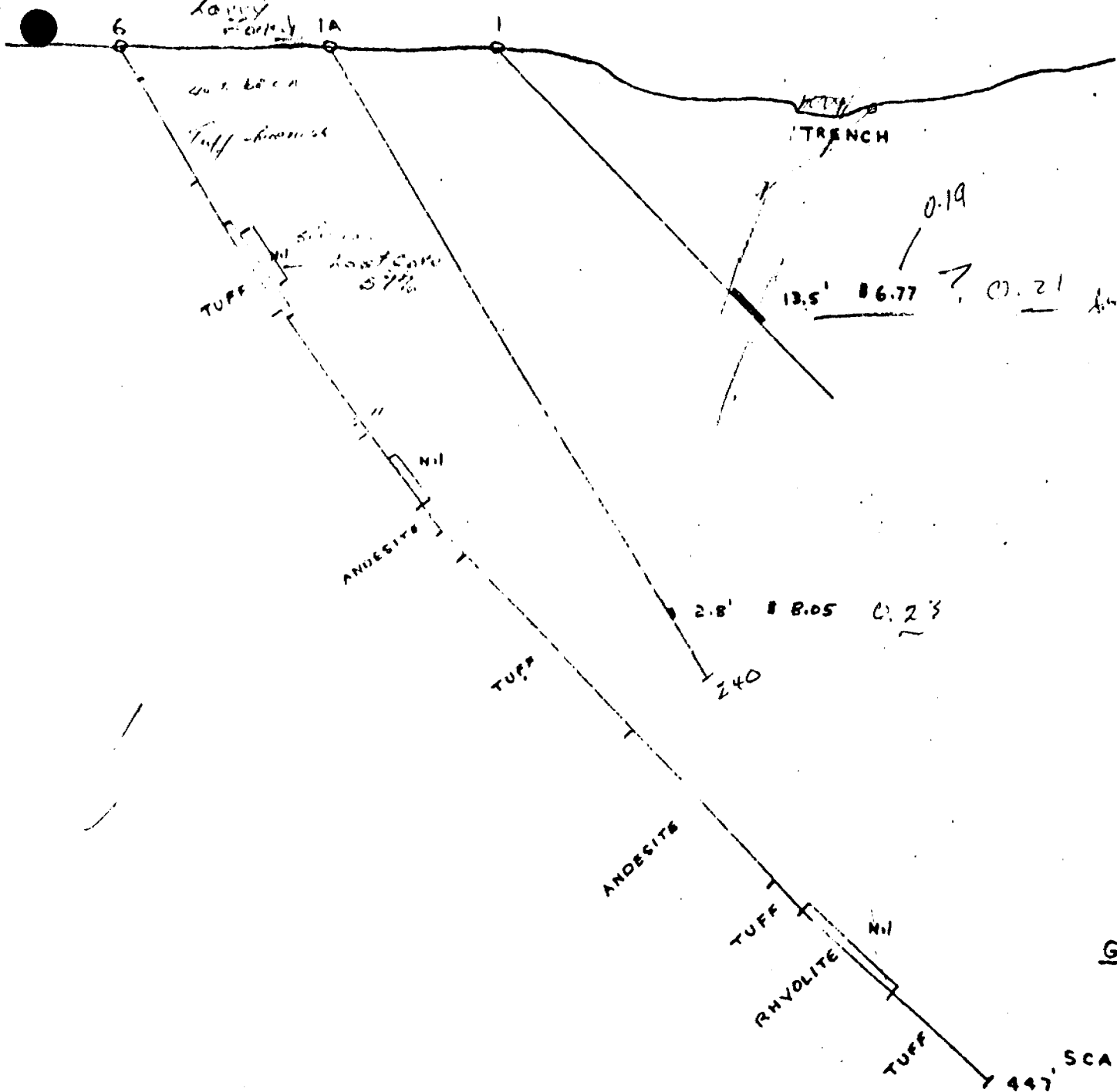
LATITUDE 1 + 20 N.W. HOLE NO. 6
 DEPARTURE 0 + 70 S.W. LENGTH 447.0 FEET
 ELEVATION Surface SHEET NO. 2.
 AZIMUTH 70' SW of hole LOGGED BY A.J. Walker.
 DIP -60° # 1-A.

SAMPLE			COPPER		ZINC		LEAD		SILVER		GOLD	
From	To	Length	%	Cum.	%	Cum.	%	Cum.	oz TWT	Cum.	oz TWT	Cum.
362.4	367.4	5.0							N11		N11	
367.4	372.4	5.0							N11		N11	
372.4	377.4	5.0							N11		N11	
377.4	381.4	4.0							N11		N11	
381.4	382.0	0.6										
382.0	387.0	5.0							N11		N11	
387.0	392.0	5.0							N11		N11	
392.0	393.0	1.0										
393.0	398.0	5.0							N11		N11	
398.0	403.0	5.0							N11		N11	
403.0	408.0	5.0							N11		N11	

SLUDGE SAMPLES:

SAMPLE NUMBER	SAMPLES		ASSAYS	
	FROM	TO	Au.	Ag.
7122	11'	20'	N11	
7123	20	30	N11	
7124	30	40	N11	
7125	40	50	N11	
Sludges missing 50 to 170'				
7151	170	180	N11	N11
7152	180	190	N11	N11
7153	190	200	N11	N11
7154	200	210	N11	N11
7155	210	220	N11	N11
7156	220	230	N11	N11
7157	230	240	N11	N11
7158	240	250	N11	N11
7159	250	260	N11	N11
7160	260	270	N11	N11
7161	270	280	N11	N11
7162	280	290	N11	N11
7163	290	300	N11	N11
7164	300	310	N11	N11
7165	310	320	N11	N11
7166	320	330	N11	N11
7167	330	340	N11	N11
7168	340	350	N11	N11
7169	350	360	N11	N11
7170	360	370	N11	N11
7171	370	380	N11	N11
7172	380	390	N11	N11
7173	390	400	N11	N11
7174	400	410	N11	N11
7175	410	420	N11	N11
7176	420	430	N11	N11
7177	430	440	N11	N11
7178	440	447	N11	N11

C
O
P
Y



GOLDMAN OPTION
 CROSS SECTION
 HOLE # 6

SCALE 1" = 50' JUN 1958

MINE GOLDMAN OPTION.

REMARKS

LEVEL

DRILL SIZE

COMMENCED 5 June 58.

LOCATION

CORE SIZE

COMPLETED 9 June 58.

FOOTAGE	DIP
0.0	60°
100.0	55°

DIAMOND DRILL RECORD

FOOTAGE		DESCRIPTION	Sul	No.	Fro
FROM	TO				
0.0	11.00	Casing - reamed to 2 1/2 feet.			
11.0	20.0	Tuff, banded and schisted. Gray to green, fairly soft, with some fine pyrite.			
20.0	51.0	Tuff, gray, fine grained, more siliceous than above, schistosity from 20° to 40° to core. Sericite on slips and in banding. Banding wavy in some sections. 30.0-32.0' - Lost core.			
51.0	109.0	Tuff, like andesite in appearance, but coarser grained with distinct fine banding at 45° to core. Green with fine white spots and bands. Some quartz eyes, colourless and bluish. 84.0-86.0' - Schisted. 88.0' - Increase in light bands.			
109.0	111.0	105.0-109.0' - Coarser grain, probably diorite. Dike - dark red and green bands, fine grained, (as in hole # 6).			
111.0	117.0	Diorite, medium grained, appearance of syenite due to pinkish colour of some feldspar.			
117.0	123.0	Dike - dark red and green bands, (as above). Fine grained.			
123.0	133.0	Diorite, as above. Quartz stringers at 123.5, 124.0, 127.0, 128.4, 129.0, 129.5, & 132.5'.			
133.0	153.0	Tuff, dark green, schisted, chlorite and sericite on slips and bands. 142.0-142.8' - Dark red, fine pyrite.			
153.0	169.0	Tuff, fine grain, siliceous, banding 45° to core, grey and white. Some buff coloured sections. Partly schisted with chlorite on slips.			
169.0	255.0	159.5-162.5' - Brownish, altered, with pyrite. Tuff, like andesite, green, banded. Pyrite in some sections. 172.0-177.0' - Much pyrite, schisted, reddish alteration. 198.0' - Becoming more siliceous, (like quartzite) Considerable pyrite, buff colour and white. 238.0' - Pinkish colour, some pyrite.	7442	159	
255.0	262.5	Schisted pink rhyolite, banded like tuff to 259.0', then less banding and harder.	7443	203	
262.5	340.0	Tuff, fine grain, schisted as above, green and white banding. Some pink sections with fine pyrite. 258.0-275.0' - Pink to red colour with some pyrite. 295.5-298.7' - Pink to red in colour. 298.0' - Quartz stringer 4". 300.0-302.3' - Red colour, schisted. 309.2-314.2' - " " " " 314.2-318.5' - Red and green bands. 330.0' - 4" quartz stringer. 332.0' - Reddish colour. 339.0-341.0' - Red colour, with quartz stringers. 340.2' - 1" quartz stringer. 336.0' - Very wavy banding.	7449	260	
			7450	268	
			7179	275	
			7150	300	
			7181	309	
			7182	320	
			7183	26	
			7184	30	
			7185	30	
			7186	30	
340.0		END OF HOLE.			

AZIMUTH	FOOTAGE	DIP	AZIMUTH

LATITUDE 80° N.W.
 DEPARTURE 0 - Base line
 ELEVATION Surface.
 AZIMUTH $095^{\circ} 7'$
 DIP -60°

HOLE NO. 7-345
 LENGTH 33.0 FEET
 SHEET NO. 1.
 LOGGED BY A.J. Walker.

SAMPLE	COPPER		ZINC		LEAD		SILVER		GOLD	
	To	Length	%	Cum.	%	Cum.	%	Cum.	Gr. %	Cum.
5	162.5	3.0							N11	Tr.
0	177.0	5.0							N11	0.02
0	198.0	4.0							N11	0.02
0	203.0	5.0							N11	Tr.
0	208.0	5.0							N11	0.06
0	214.3	6.3							N11	0.04
0	260.0	5.0							N11	Tr.
0	262.5	2.5							N11	0.02
0	275.0	7.0							N11	Tr.
5	298.7	5.2							N11	Tr.
0	302.3	2.3							N11	Tr.
2	314.2	5.0							N11	Tr.
3	321.5	1.2							N11	N11
0	33.0	10.0							N11	N11
0	40.0	10.0							N11	N11
0	50.0	10.0							N11	N11
0	60.0	10.0							N11	N11

HOLE NO 7
- 60°

TUFF

AND TUFF

DIO
DIO
DIO

AU Ag

30' TR NIL

50' .02 NIL

20' .03 NIL
05/11.0

AND TUFF

50' TR NIL
25' .02 NIL

70' TR NIL

SH. PHYOLITE

80' TR NIL

50' TR NIL

TUFF

1-2' NIL NIL

BASE LINE

AND ANDSITE
DIO DIORITE
SH SHEARED

AU + Ag ASSAYS IN O₃/TON

GOLDMAN OPTION
SECTION HOLE " 7

SCALE 1" = 50'

MINE GOLDMAN OPTION.

REMARKS

LEVEL Surface.

DRILL SIZE

COMMENCED 11 Jun. 58.

LOCATION Mallard Twp. Ont.

CORE SIZE

COMPLETED 13 Jun. 58.

FOOTAGE
0.0
100.0
322.0

DIAMOND DRILL RECORD

FOOTAGE		DESCRIPTION	% Sul.	
FROM	TO			No.
0.0	11.0	Coring.		
11.0	67.0	Tuff, white, grey, and green bands. 11.0-60.0' - Altered - bands are contorted sericite and chlorite. Some quartz stringers, also odd calcite stringer. 14.5-15.5' - Siliceous, fine grained, white. 15.5-17.0' - Lost core. 53.0-53.5' - Lost core. 56.0-57.0' - Lost core. 56.0' - 2" quartz stringer. 59.0-67.0' - Becoming more siliceous. Banding 45° to core, with fine pyrite along bands. Chlorite on slips, schisted.		
67.0	77.0	Andesite, banded like tuff, green.		
77.0	90.0	Diorite, coarser grain than andesite, no banding.		
90.0	102.5	Andesite, green, with some white bands, partly chloritic. 93.5-95.5' - Quartz and calcite in chlorite.		7188
102.5	104.3	Diorite, no banding.		
104.5	110.0	Andesite, green, banded.		
110.0	112.0	Diorite, medium grained, greenish colour, some chlorite alteration.		
112.0	115.0	Andesite, green, some banding, pyrite grains throughout, a few quartz stringers.		
115.0	132.0	Diorite, as above, partly altered.		
132.0	160.5	Andesite, green, some banding, partly chloritic. 126.0-160.0' - Fine grained, very dark, less banding.		
160.5	190.0	Tuff, fine grained, grey, banded, more siliceous than material above banded material. Some sericite alteration. Schisted. Pyrite in grains along banding.		
190.0	277.0	186.5-189.0' - Siliceous, much pyrite. Andesite, green, coarser grain than tuff, considerable pyrite. some sections white spotting gives porphyritic appearance. Also, some blue quartz eyes found some sections. 216.0' - Quartz stringer with pyrite. 228.0' - " " " "		7189 7190
277.0	322.0	231.0-234.5' - Spotted appearance, pyrite. Tuff, fine grained, schisted, grey and white. Some bands of pink (like rhyolite in holes 6 & 7, but banded and schisted). Minor pyrite. Banding 60° to core. 293.0-292.0' - Pink rhyolite schist with quartz and pyrite. 303.0' - Quartz stringer in pink banded tuff, no pyrite. 318.5' - 6" quartz, white, large pyrite crystals at contacts. 322.0' - Banding 75° to core.		7191 7192

DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
58°				
55°				
45°				

LATITUDE 250' N.W. HOLE NO. 8
 DEPARTURE Baseline LENGTH 322.0 FEET
 ELEVATION + 10' SHEET NO. 1.
 AZIMUTH hole # 6 LOGGED BY A.J. Walker.
 DIP -58°

SAMPLE			COPPER		ZINC		LEAD		SILVER		GOLD	
From	To	Length	%	Cum.	%	Cum.	%	Cum.	Oz. %	Cum.	Oz. %	Cum.
93.5	95.5	2.0							N11		N11	
160.5	165.5	5.0							N11		N11	
165.5	171.0	5.5							Tr.		N11	
231.0	234.5	3.5							N11		N11	
290.0	292.0	2.0							Tr		N11	

APPENDIX TO DIAMOND DRILL LOG - HOLE NO 8 - GOLDMAN OPTION.

<u>SLUDGE SAMPLE #.</u>	<u>FOOTAGE.</u>	<u>Au.</u>	<u>Ag.</u>
7193	11-20	Tr	N11
7194	20-25	Tr	N11
7195	42-50	N11	N11
7196	50-60	N11	N11
7197	80-90	N11	N11
7198	90-100	N11	N11
7199	100-110	N11	N11
7200	110-120	N11	N11
7201	120-130	N11	N11
7202	130-140	Tr	N11
7203	140-150	N11	N11
7204	150-160	N11	N11
7205	160-170	Tr.	N11
7206	170-180	Tr	N11
7207	180-190	N11	N11
7208	190-200	N11	N11
7209	200-210	N11	N11
7210	210-220	N11	N11
7211	220-230	N11	N11
7212	230-240	N11	N11
7213	240-250	N11	N11
7214	250-260	N11	N11
7215	260-270	N11	N11
7216	270-280	Tr.	N11
7217	280-290	Tr	N11
7218	290-300	Tr	N11
7219	300-310	Tr	N11
7220	310-322	Tr	N11

C

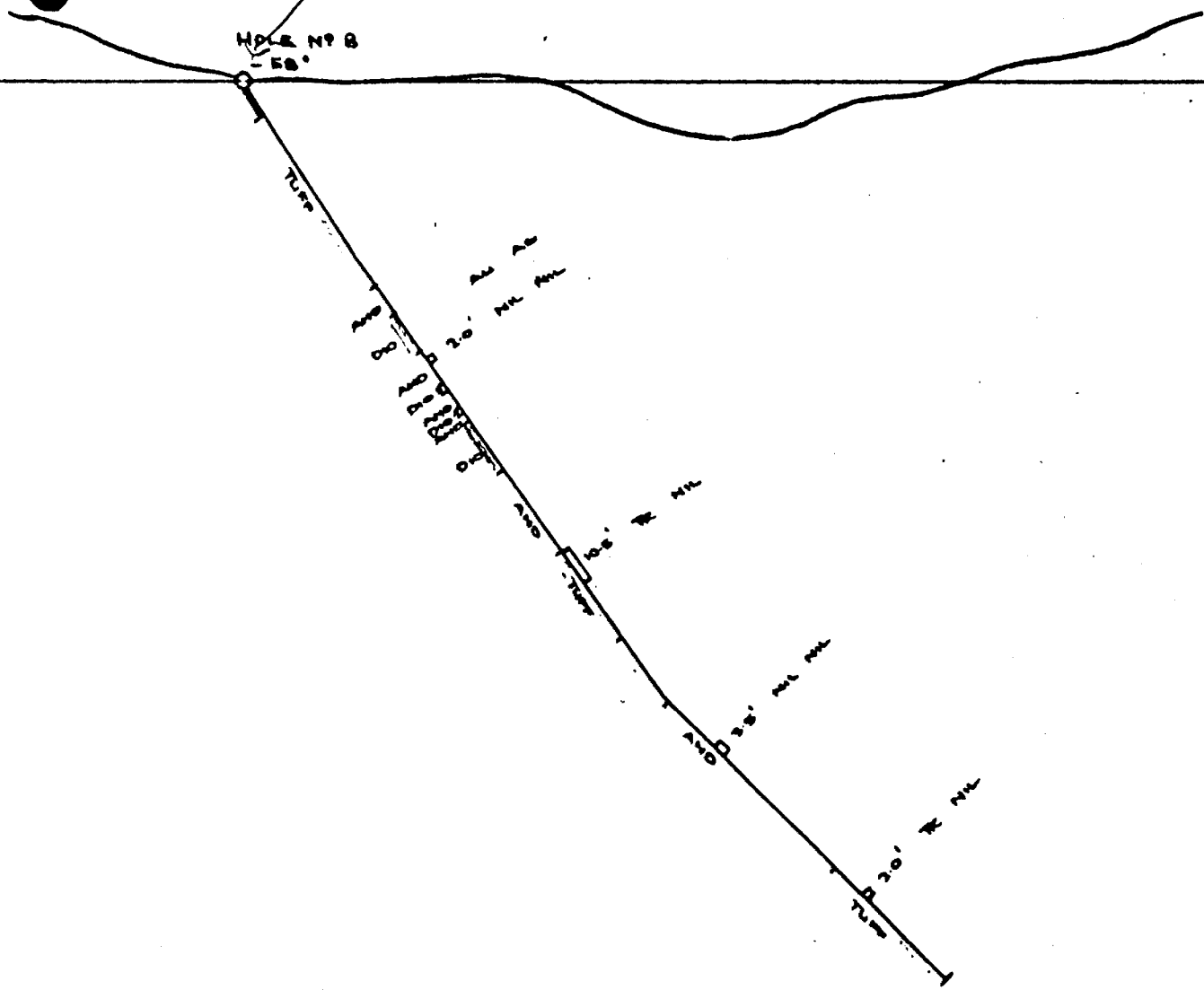
O

P

Y

LARRY ZONE

HOLE NO 8
- 50'



DIO DICRITE
AND ANDSITE

GOLDMAN OPTION
SECTION HOLE NO 8

SCALE 1" = 50'

LOOKING NORTHWEST

JUNE, 1958

MINE Goldens Option.

REMARKS

LEVEL Surface

DRILL SIZE

COMMENCED 14 June 58

LOCATION Mellard Twp. CORE SIZE "A"

COMPLETED 16 June 58

FOOTAGE	DI
0.0	-
200.0	-

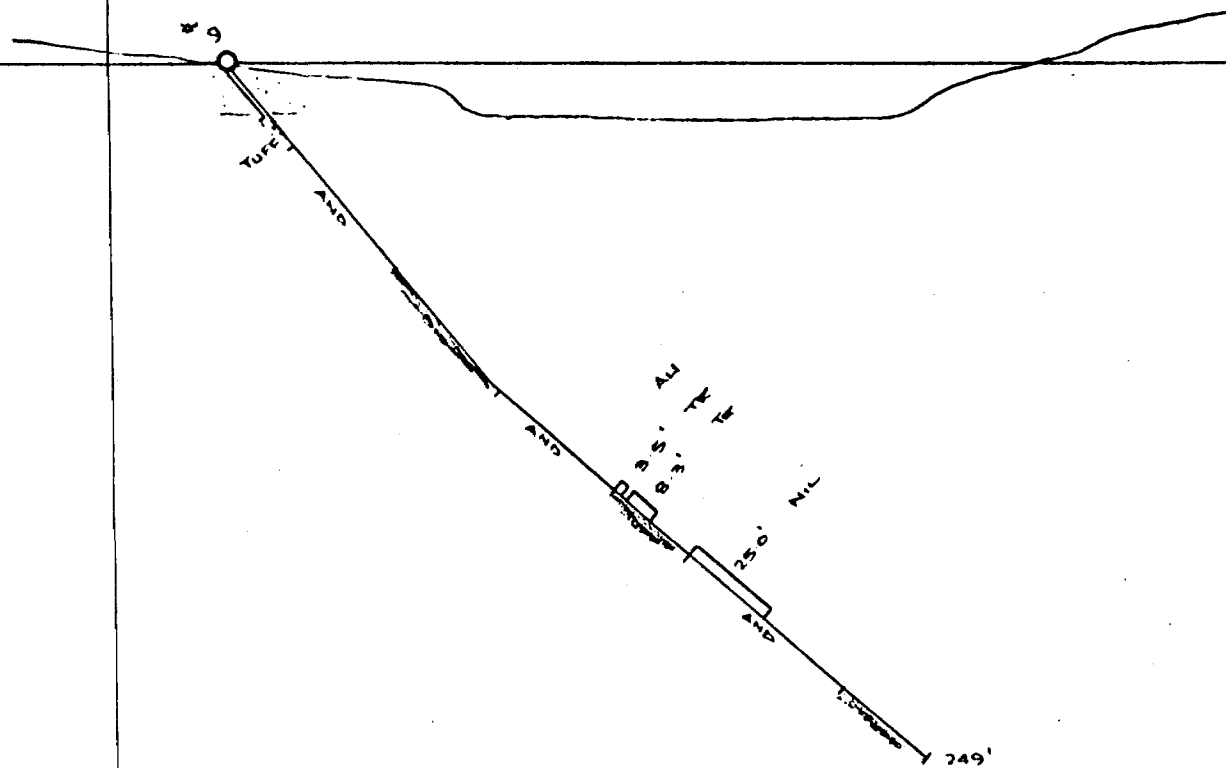
DIAMOND DRILL RECORD

FOOTAGE		DESCRIPTION	% Sul.	
FROM	TO			No.
0.0	14.0	Casing (12' in bedrock).		
14.0	16.0	Andesite, slightly banded, green.		
16.0	26.0	Tuff, fine grained, gray, banded, schisted. Some tuff bands with pyrite.		
		17.0-18.0' - Lost core.		
		19.0-20.0' - Lost core.		
		17.0' - Quartz stringer.		
		21.5-22.0' - Lost core.		
		22.5-23.0' - Lost core.		
26.0	66.5	Andesite, green, light banding 45° to core, fine quartz along banding, also pyrite. Porphyritic appearance due to quartz eyes. Usually blueish-white.		
		28.5-29.5' - Tuff as above.		
		34.0-25.0' - Porphyry dike, red phenocrysts in dark groundmass.		
		35.0' - 1" quartz.		
		34.5' - 1" quartz.		
		41.0' - 1" quartz.		
		44.2' - 1/2" quartz.		
		44.0' - Becoming coarser grained.		
		57.5' - narrow quartz stringer.		
		59.0' - 1" quartz, also calcite.		
		59.0-62.0' - Porphyry dike as above.		
		63.0-66.0' - Chloritized, dark bands.		
		66.0-66.5' - Porphyry dike as above.		
66.5	107.0	Diorite, medium grained, no banding, greenish color, soft, odd quartz stringer.		
		68.5-70.0' - Coarse grained.		
		70.0-71.5' - Porphyry dike, red phenocrysts in dark fine grain groundmass.		
		76.0-76.5' - Chloritized andesite.		
		105.0' - Becoming fine grained, softer. Contact not defined.		
107.0	143.2	Andesite, chloritized, appearance of diorite above, but finer grained and slightly banded, soft. Some white carbonate bands.		
		142.7' - Very soft.		
143.2	170.5	Tuff, banding 50° to core, hard.		
		144.0-147.5' - Very hard red bands with pyrite.		7241
		147.5-149.7' - Andesite.		
		149.7-157.0' - Red banding.		7242
		150.3 - Quartz and calcite stringer.		7243
		160.0' - Increase in sericite, less pyrite.		
170.5	225.0	Andesite, banded, considerable quartz in bands, pyrite throughout, green color, quartz eyes in several sections.		7244
		173.5-195.5' - Considerable pyrite.		7245
		193.5-195.5' - Increase in quartz bands.		7246
		205.0' - 2" quartz.		7247
193.2	215.0	Tuff, banding 65° to core, fine grained, siliceous, very hard.		
215.0		221.0-221.5' - Tuff bands with some fine pyrite. (211.0' - 221.0')		

APPENDIX TO DIAMOND DRILL LOG - HOLE NO 9 - GOLDMAN OPTION:

<u>SLUDGE SAMPLE #</u>	<u>FOOTAGE</u>	<u>AN.</u>	<u>AR.</u>
7238	13-20	Tr.	
7239	20-30	Tr.	
7240	30-36	Tr.	
7221	80-90	Tr.	
7222	90-100	Tr.	
7223	100-110	Tr.	
7224	110-120	Tr.	
7225	120-130	Tr.	
7226	130-140	Tr.	
7227	140-150	Tr.	
7228	150-160	Tr.	
7229	160-170	Tr.	
7230	170-180	Tr.	
7231	180-190	Tr.	
7232	190-200	Tr.	
7233	200-210	Tr.	
7234	210-220	Tr.	
7235	220-230	Tr.	
7236	230-240	Tr.	
7237	240-249	Tr.	

C
O
P
Y



AND ANDESITE
DIO DIORITE

BASE LINE

GOLDMAN OPTION
SECTION HOLE NO 9

SCALE 1" = 50'

MINE BIRDAN SECTION.

REMARKS

LEVEL Surface

DRILL SIZE

COMMENCED 13 June 58

LOCATION Mallard Twp.
Cnt.

CORE SIZE

"A"

COMPLETED 20 June 58

FOOTAGE
0.0
50.0
200.0

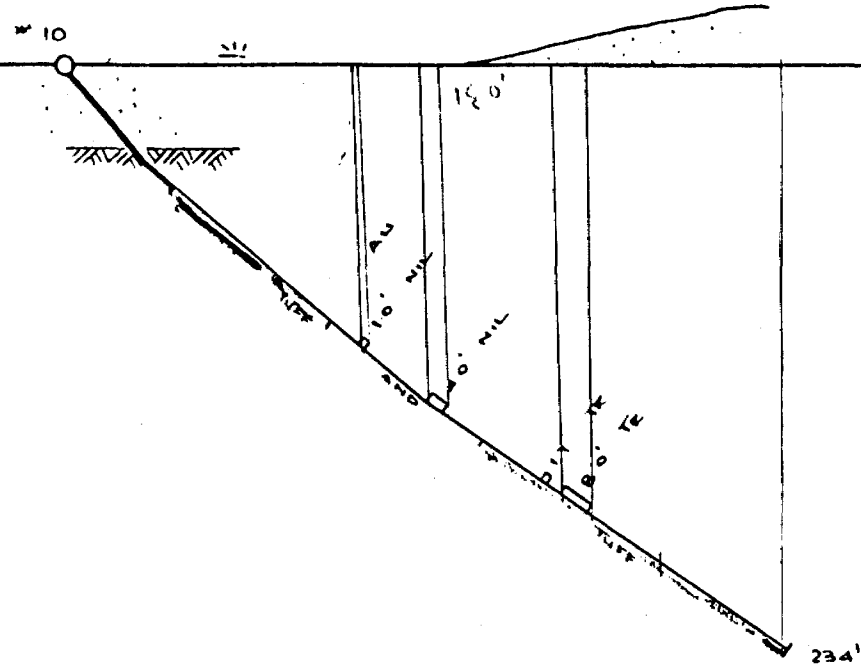
DIAMOND DRILL RECORD

FOOTAGE		DESCRIPTION	No.	
FROM	TO		Sub.	No.
0.0	41.0	Casing. (12' in bedrock)		
41.0	74.0	Andesite, green, some chloritic sections, banding 70° to core. 41.0-51.0' - Pinkish dike, red phenocrysts in dark fine grained groundmass. 52.0-54.0' - Softer, several quartz stringers. 54.0-56.0' - Fine grained dike, possibly diorite. 57.0' - 4" quartz stringer. 63.0' - Becoming chloritic, carbonated. 67.5' - Calcite stringer.		
74.0	92.0	Tuff, fine grained, banded, much harder than above, some fine pyrite throughout.		
92.0	141.0	Andesite, darker than above, banded, quartz gives spotted appearance, some sections. 113.5-114.0' - Quartz and pyrite. 125.5-126.0' - Quartz and pyrite. 127.5-128.5' - Chlorite schist with pyrite. 131.0-136.0' - Fine grained diorite.		7104 7105
141.0	234.0	Tuff, fine grained, well banded, some sections of sericite schist. 165.0-170.0' - Brownish cherty quartz in bands. 177.0-178.0' - Pink, fine grained. 183.0-234.0' - Bands of red and green. 189.0-190.0' - Lost core. 197.0' - 2" quartz. 207.0' - 4" quartz. 205.0' - Banding contorted, sheared. 215.5' - Red bands with pyrite. 221.0-225.0' - Banding contorted - folding? 226.0' - 1" quartz.		7103 7101 7102
234.0		END OF HOLE.		

APPENDIX TO DIAMOND DRILL LOG - HOLE NO 10 - GOLDMAN OPTION:

<u>SLUDGE SAMPLE #</u>	<u>FOOTAGE</u>	<u>Au.</u>
7118	60-70	Tr.
7119	70-80	Tr.
7120	80-90	Tr.
7117	90-100	Tr.
	100-130 - Missing.	
7106	130-140	Tr.
7107	140-150	Tr.
7103	150-160	Tr.
7109	160-170	Tr.
7110	170-180	Tr.
7111	180-190	Tr.
7112	190-200	Tr.
7113	200-210	Tr.
7114	210-220	Tr.
7115	220-230	Tr.
7116	230-234	Tr.

C
O
P
Y



GOLDMAN OPTION
SECTION HOLE NO 10

SCALE 1" = 50'

BASE LINE



41009NW0025 2.3571 MALLARD

File 3571

900

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Magnetometer - Electromagnetic Survey
 Township or Area Muskegon
 Claim Holder(s) A.E. Kipler
4055 Yonge St. Suite 1001 Toronto
 Survey Company S.H. Malvern Consulting Geologists Ltd.
 Author of Report S.F. Malvern
 Address of Author 73 Warden Bridge Dr. Toronto
 Covering Dates of Survey Feb 1980 - Sept 1980
 (linecutting to office)
 Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

MSE-174

(prefix) (number)

*See attached
claim register*

If space insufficient, attach list

**SPECIAL PROVISIONS
CREDITS REQUESTED**

ENTER 40 days (includes
line cutting) for first
survey.
ENTER 20 days for each
additional survey using
same grid.

Geophysical **DAYS per claim**
 - Electromagnetic 70
 - Magnetometer 40
 - Radiometric _____
 - Other _____
 Geological _____
 Geochemical _____

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Nov 22/80 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3174

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval 100' Stations Line spacing 400' spacing

Profile scale km Contoured by Parson filter method.

Contour interval 100 gamma ms for mag 10 for Em

MAGNETIC

Instrument Parson Precision digital readout McPherson magnetometer

Accuracy - Scale constant 1 gamma

Diurnal correction method loop + correct baseline, loop + correct lines, correct lines to Baseline.

Base Station check-in interval (hours) 1-2 hours

Base Station location and value _____

ELECTROMAGNETIC

Instrument Phoenix VLF -> Electromagnetic Instrument

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency Cutter unknown (specify V.L.F. station)

Parameters measured Horizontal field strength + Dip Angle

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters - On time _____ Frequency _____

- Off time _____ Range _____

- Delay time _____

- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

EXPIRY DATES FOR CLAIMS

Prospector's Licence #A - 34793

Patented Claims (13 claims)

- 53388
- 37427
- 37428
- 37429
- 37430
- 37431
- 37432
- 37433
- 37434
- 24797
- 24798
- 24799
- 24800

work issued /
Sept 25 / 80

1st Group Staked

<u>Claim Number</u>	<u>Expiry Date</u>
545427	Oct. 10/80
545428	"
545429	"
545430	"
545431	"
545432	"
545433	"
545434	"
545435	"
545436	"
545437	Nov. 2/80
545438	"
545439	"
545440	"
545475	"
545476	"
545477	"
545478	"
545484	"
545485	"
545486	"
545487	"
544305	"
544306	"
544307	"
544308	"
544309	"
544310	"
544311	"
544312	"
544313	"
544314	"

2nd Group Staked

548450	Jan. 24/81
548421	"
548423	"
548425	"
548430	"
548431	"
548432	"
548433	"
548434	"
548435	"
548436	"
548437	"

2nd Group Staked

Claim Number

Expiry Date

548438

Jan. 24/81

548439

"

548440

"

548442

"

3rd Group Staked

565299

Aug. 28/81

565300

"

565301

"

The Teck-Hughes Gold Mines, Limited



CANADIAN BANK OF COMMERCE BUILDING

25 KING STREET WEST

TORONTO, ONT.

February 4, 1958.

Mr. H. Goldman,
60 Oriole Road,
Toronto, Ontario.

Dear Mr. Goldman,

Just a line to thank you very much for the data on the gold property which you so kindly brought in for our consideration. I shall be out of town the remainder of this week, but hope to study same on my return, and shall be glad to discuss the situation with you.

Again thanking you for bringing this to our attention,

Yours sincerely,

THE TECK-HUGHES GOLD MINES, LIMITED

J. C. Perry,
President.

JCP:n

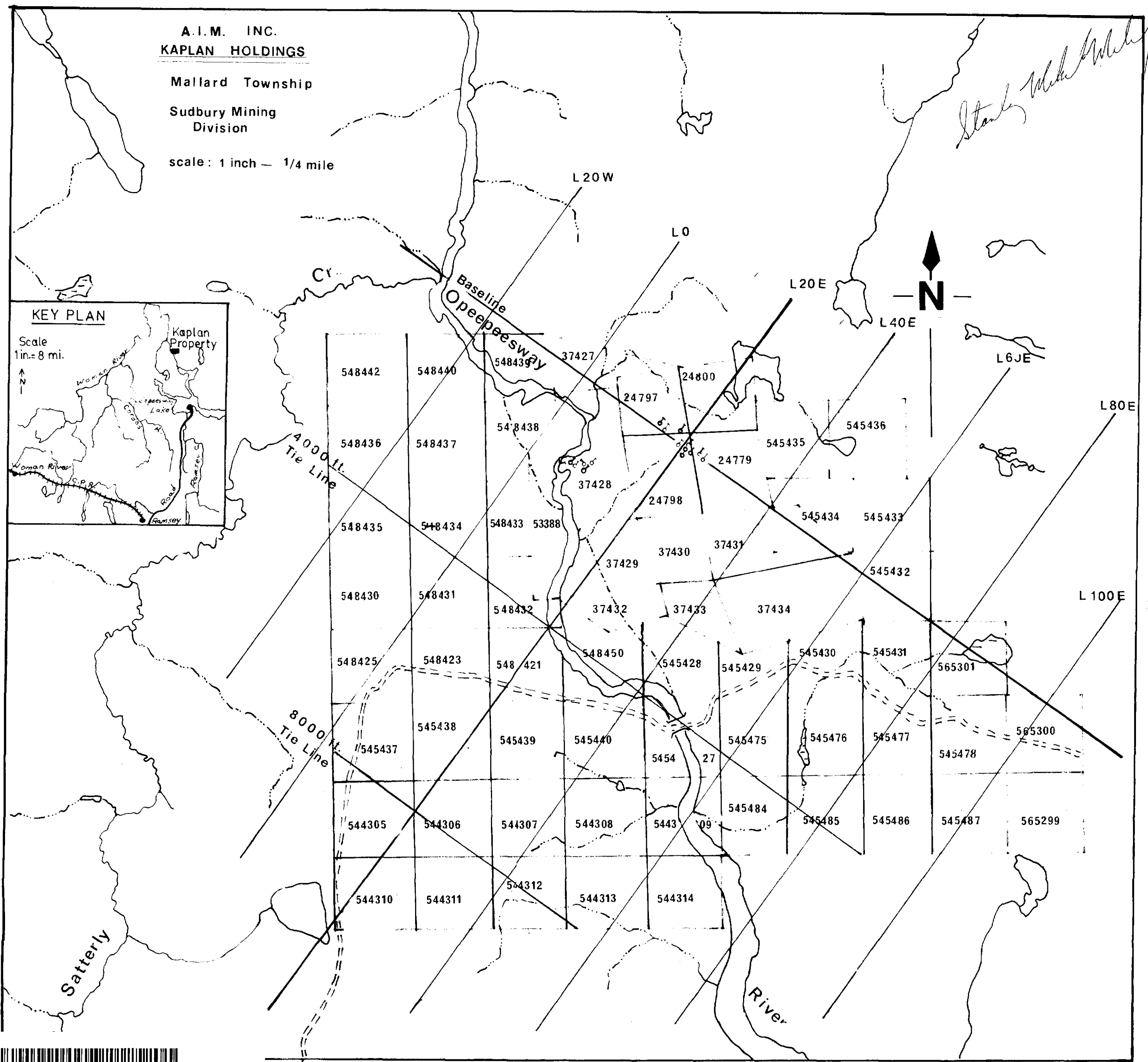
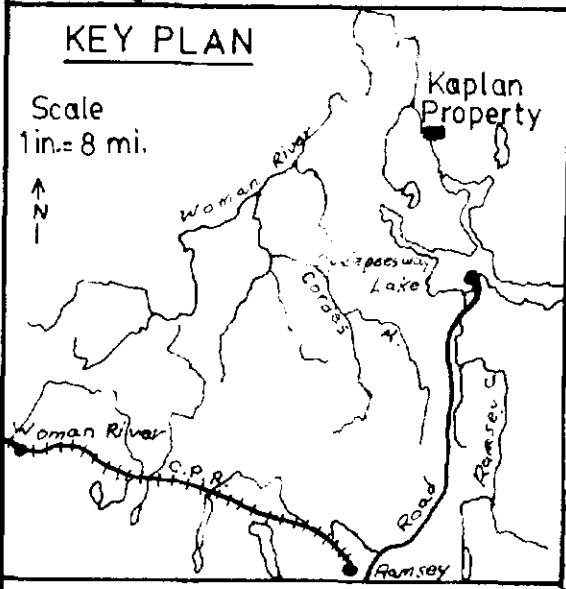
A.I.M. INC.
KAPLAN HOLDINGS

Mallard Township

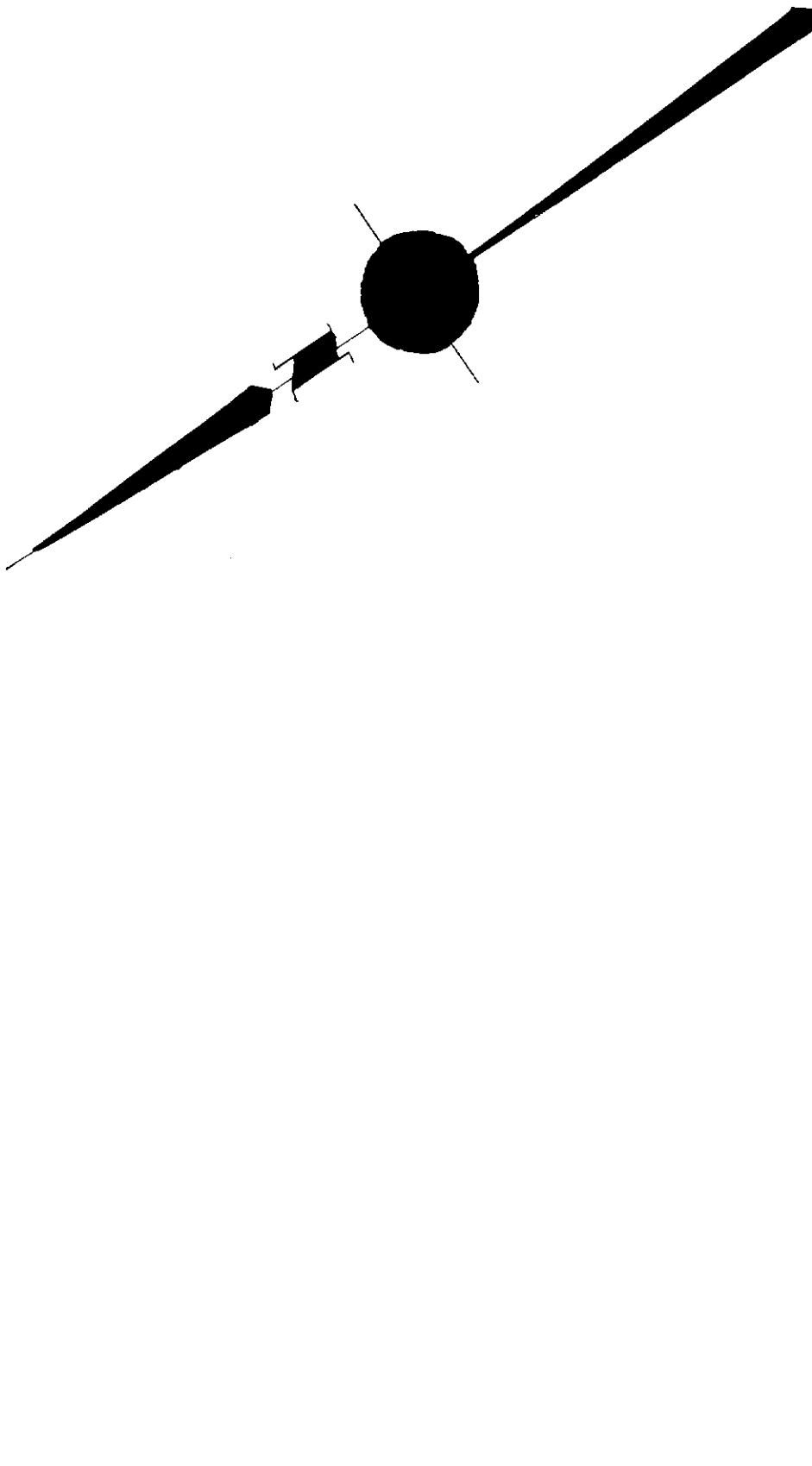
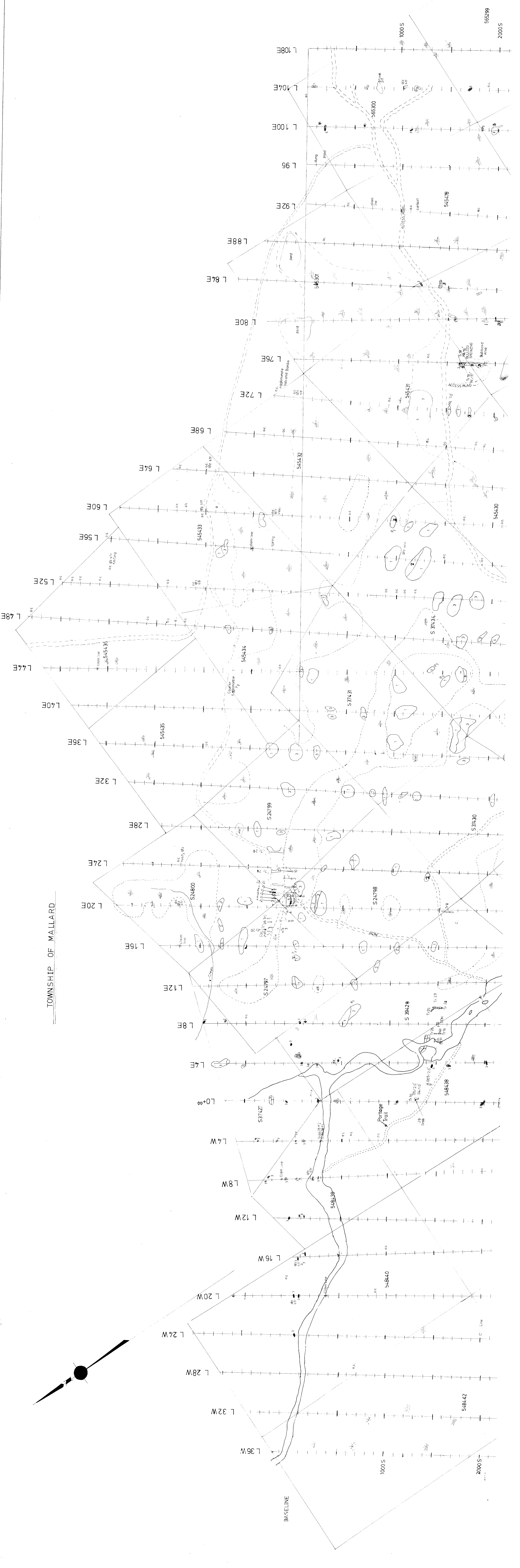
Sudbury Mining
Division

scale: 1 inch = 1/4 mile

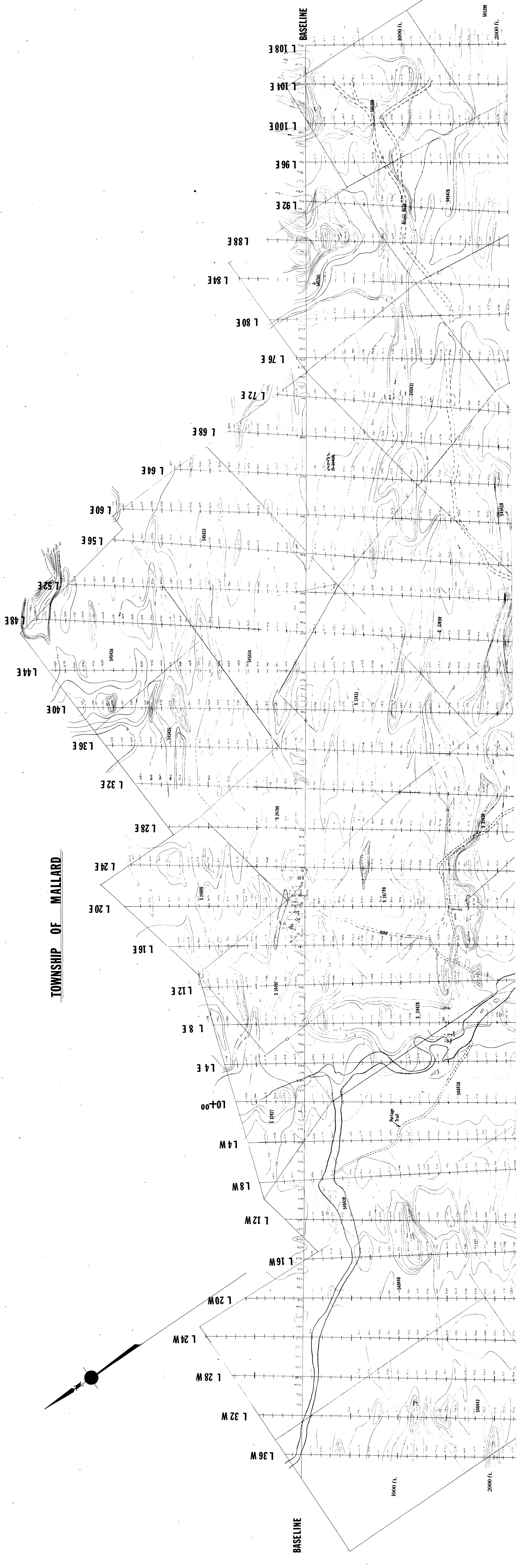
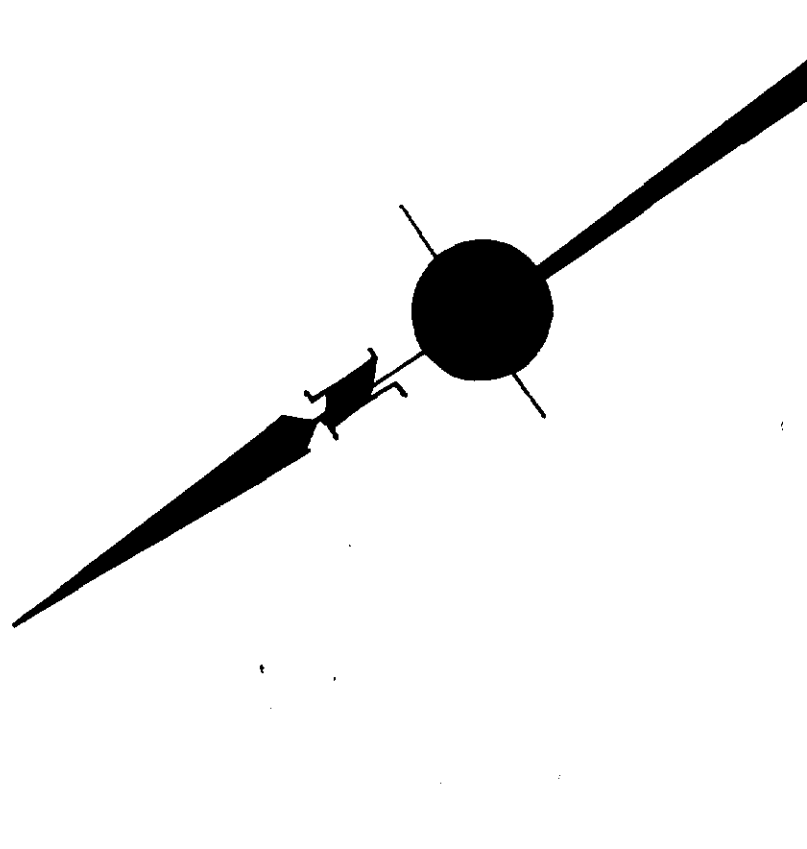
Stanley Mike White

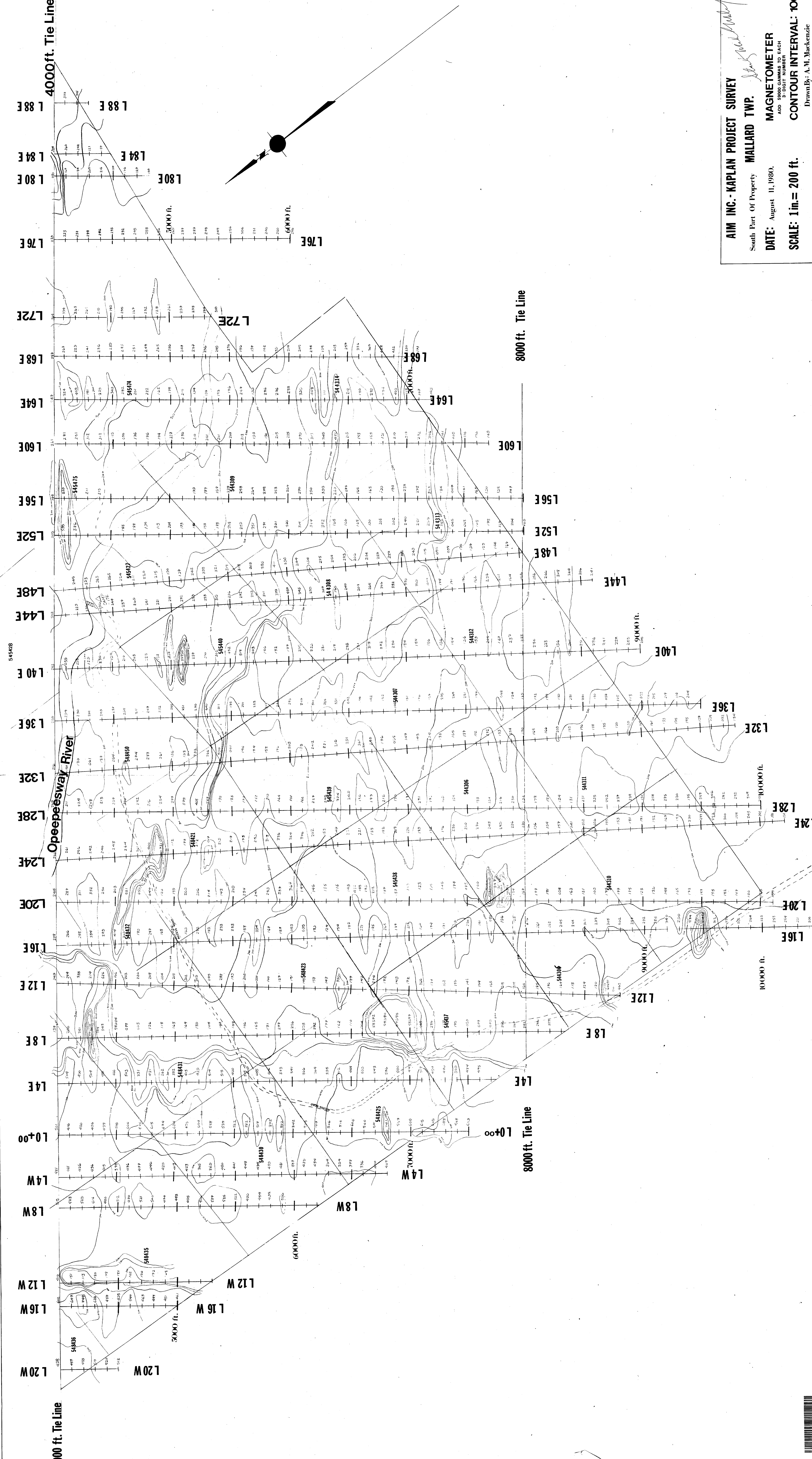


TOWNSHIP OF MALLARD

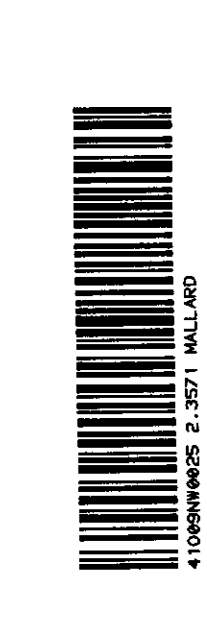


TOWNSHIP OF MALLARD

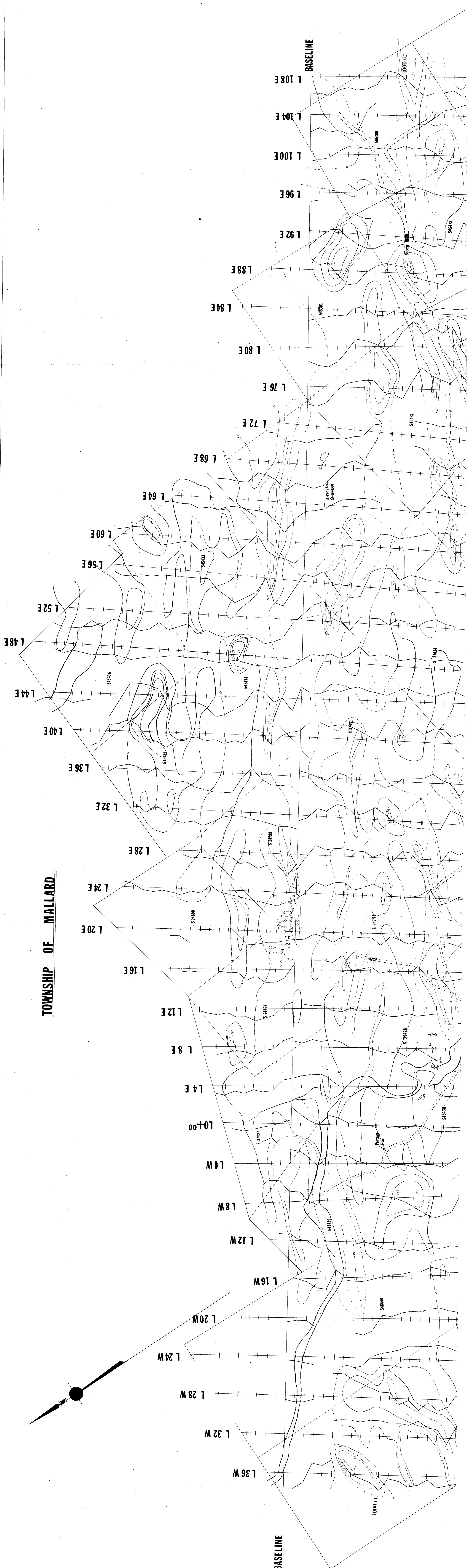


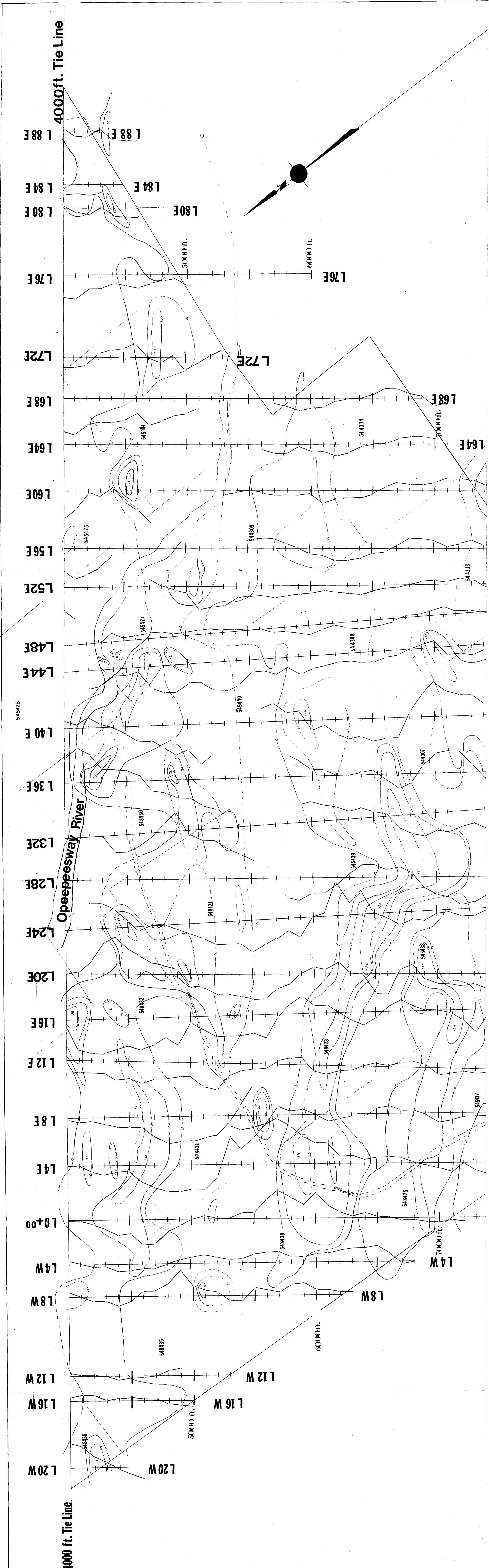


AIM INC. - KAPLAN PROJECT SURVEY
 South Part Of Property **MALLARD TWP.**
DATE: August 11, 1980.
SCALE: 1 in. = 200 ft.
MAGNETOMETER
 ADD 900.00 INCHES EACH
 TO GRID NUMBER
CONTOUR INTERVAL: 100'
 Drawn By: A. M. Mackenzie

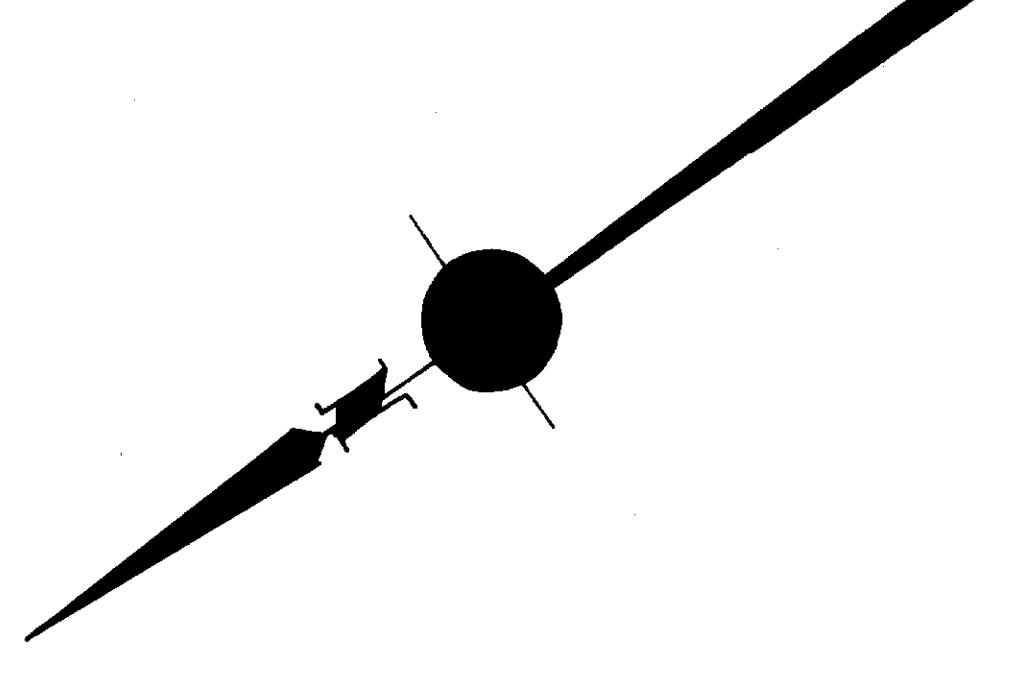
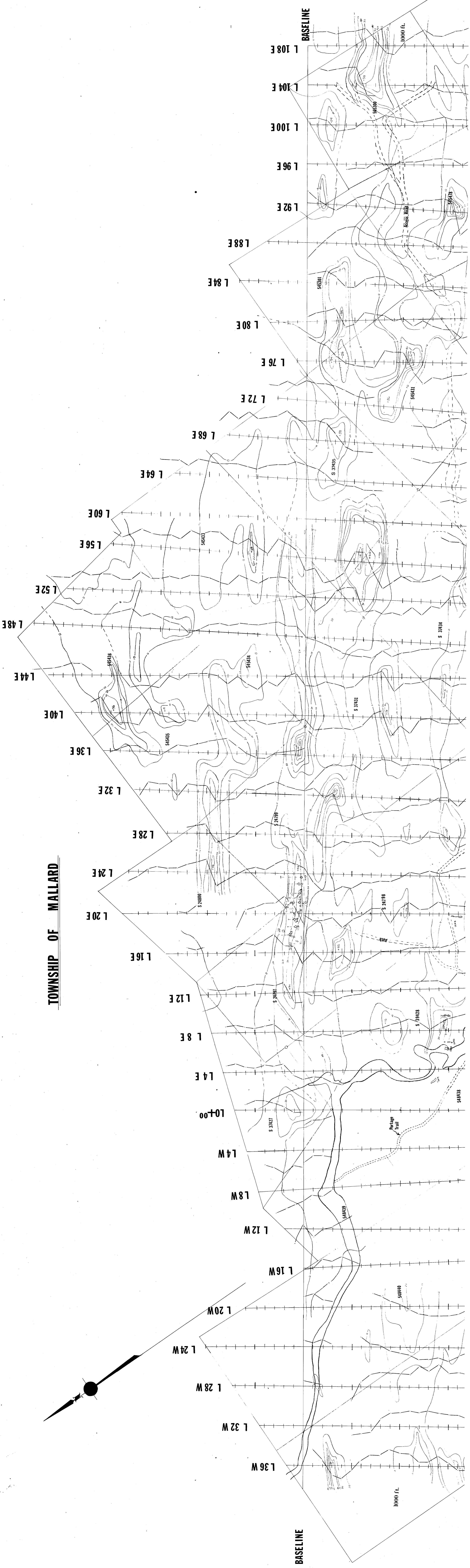


TOWNSHIP OF MALLARD





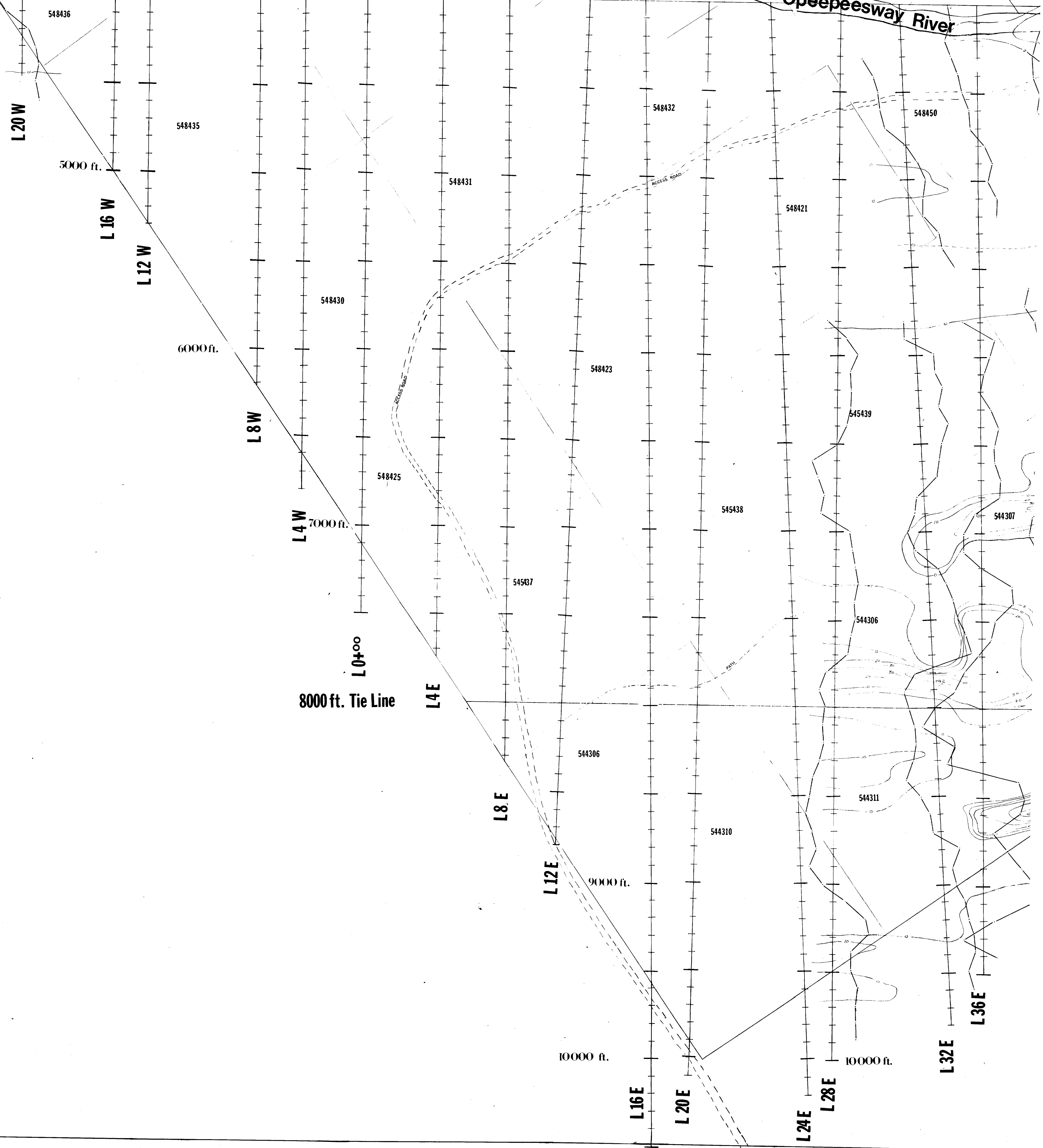
TOWNSHIP OF MALLARD



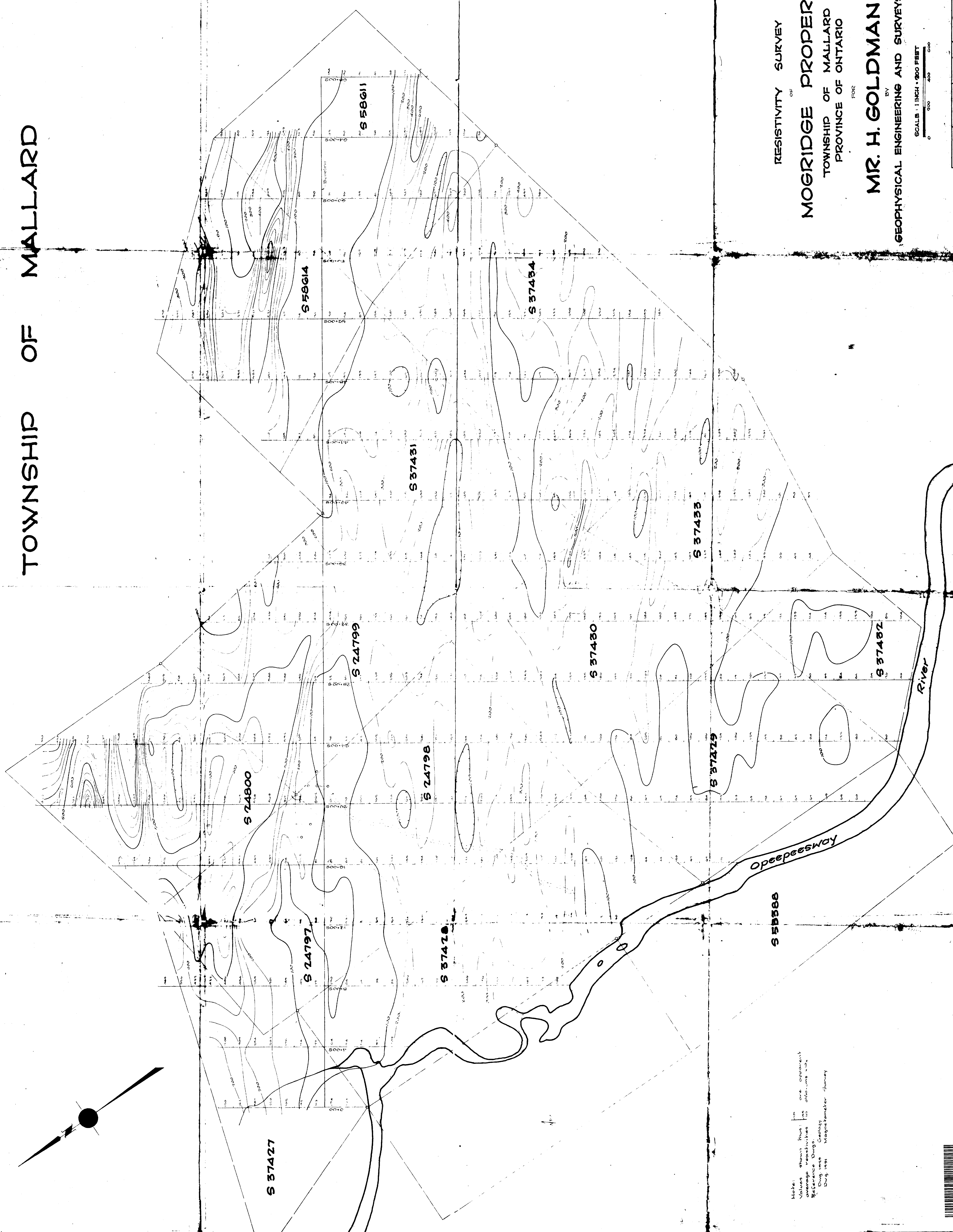
4000 ft. Tie Line

L 20 W L 16 W L 12 W L 8 W L 4 W L 0+00 L 4 E L 8 E L 12 E L 16 E L 20 E L 24 E L 28 E L 32 E L 36 E

Opeepeesway River



TOWNSHIP OF MALLARD



S 55388

Note:
 Values shown here are apparent
 resistivity values in ohm-meters
 Reference Data Geology
 Div. 1991 Magnetometer Survey

RESISTIVITY SURVEY

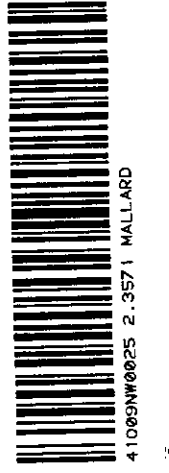
OF MOGRIDGE PROPERTY

TOWNSHIP OF MALLARD
PROVINCE OF ONTARIO

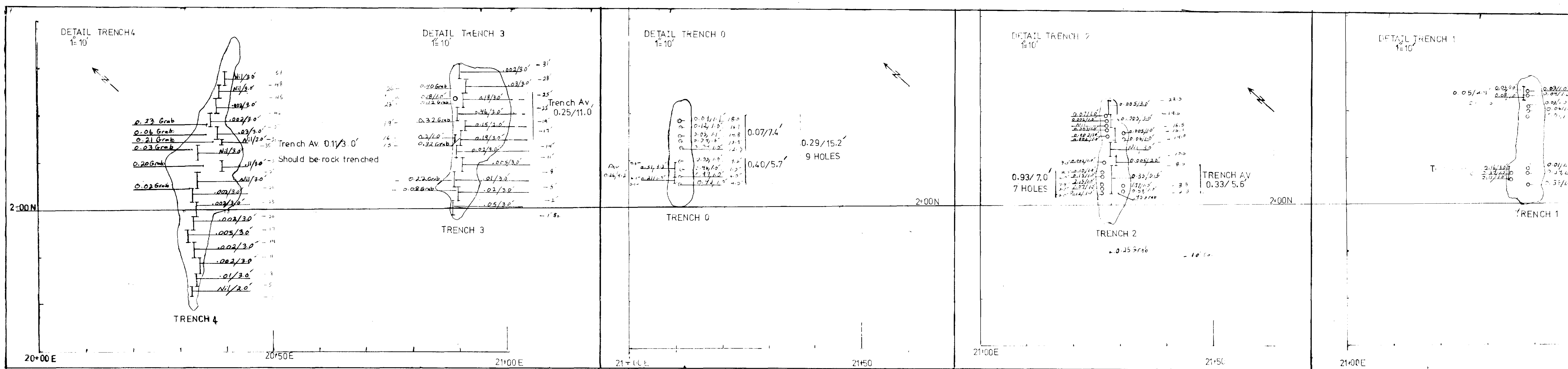
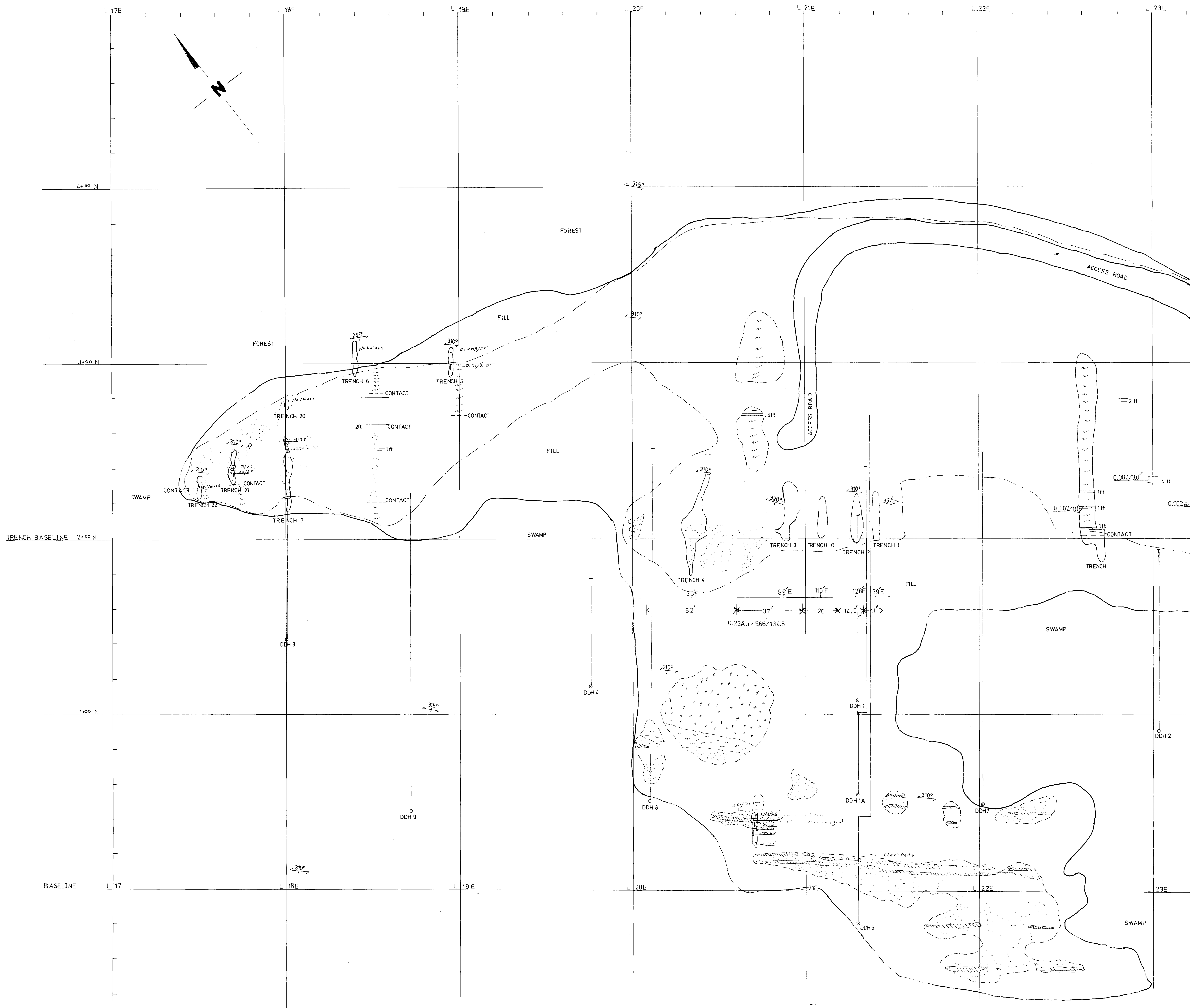
FOR
MR. H. GOLDMAN
BY

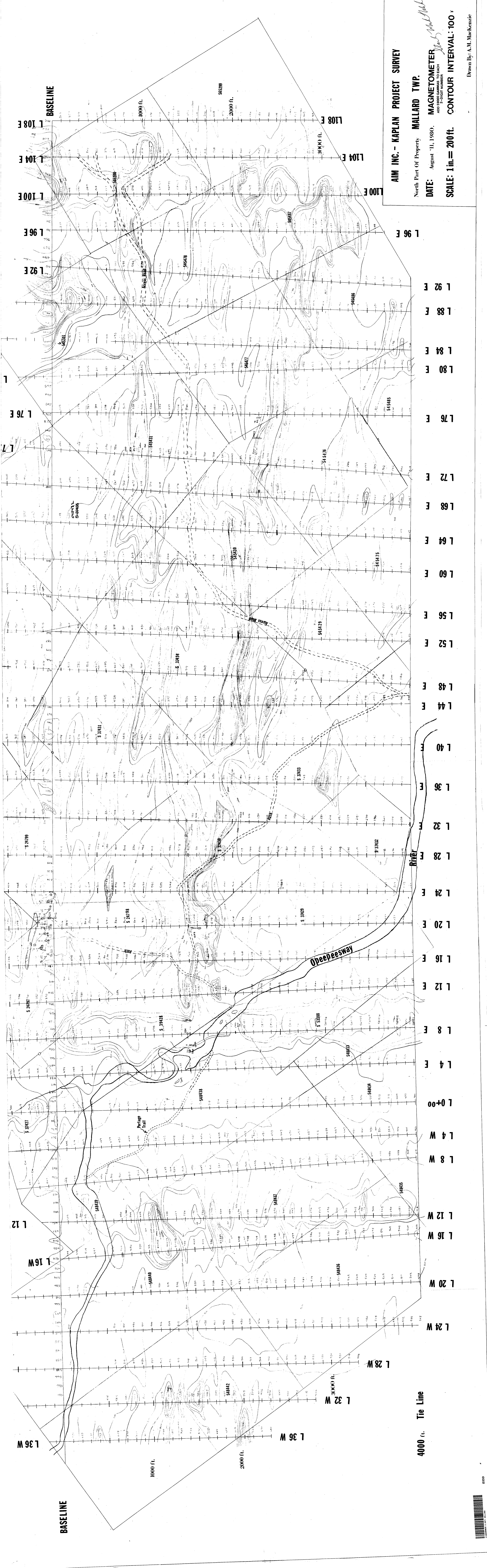
GEOPHYSICAL ENGINEERING AND SURVEYS LIMITED

SCALE: 1 INCH = 200 FEET
0 100 200 300 400 500



280

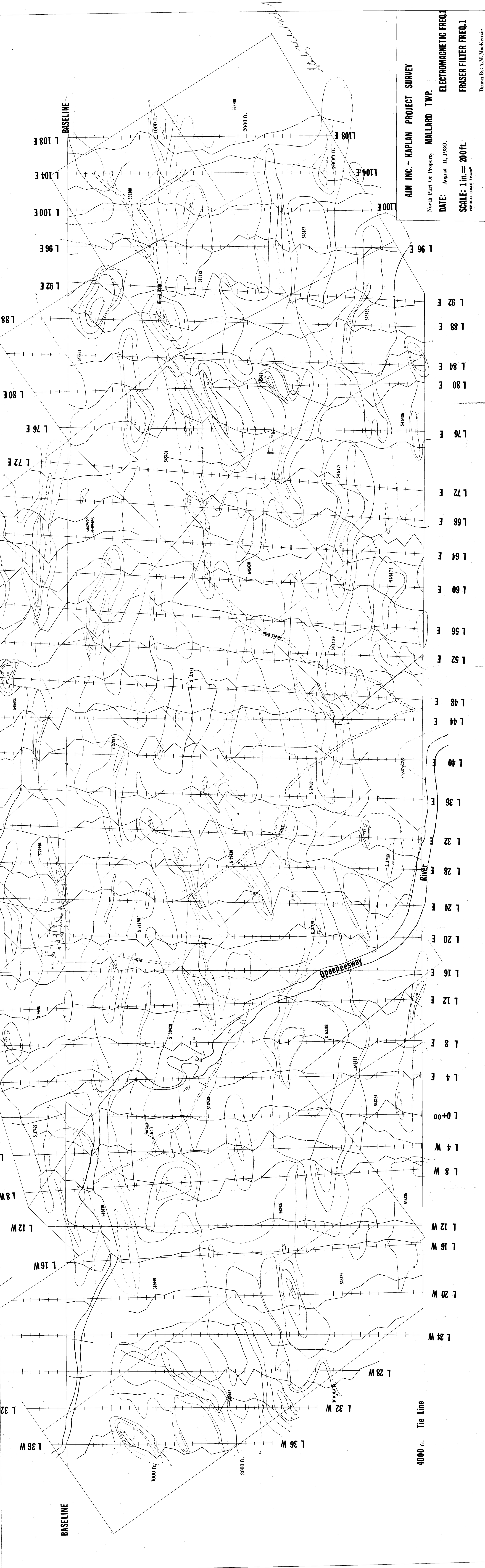




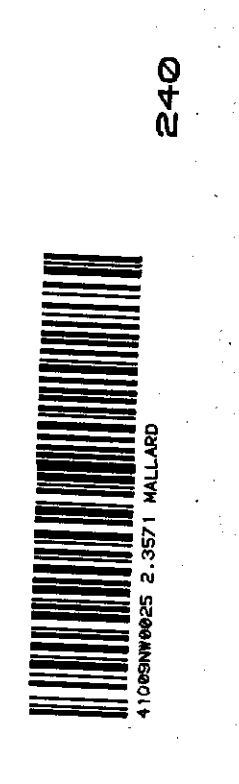
AIM INC. - KAPLAN PROJECT SURVEY
 North Part Of Property **MALLARD TWP.**
DATE: August 11, 1980. **MAGNETOMETER**
ADD 59000 GAMMAS TO EACH 3-DIGIT NUMBER
SCALE: 1 in. = 200 ft. **CONTOUR INTERVAL: 100 ft.**

Drawn By: A.M. MacKenzie



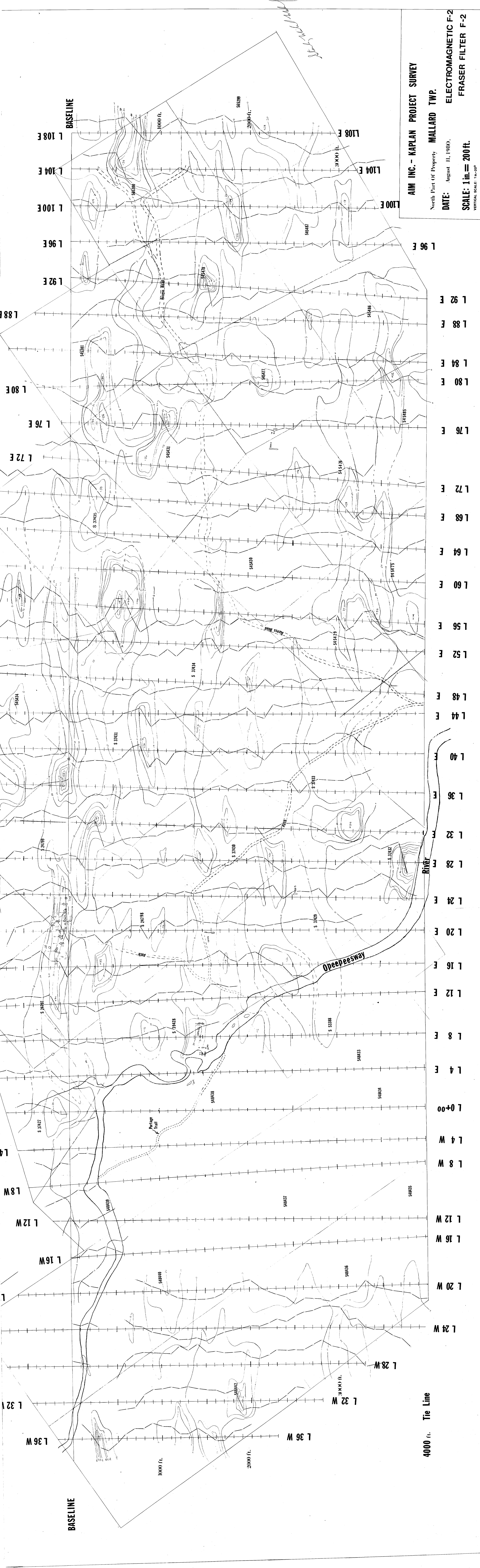


AIM INC. - KAPLAN PROJECT SURVEY
 North Part Of Property **MALLARD TWP.**
DATE: August 11, 1980. **ELECTROMAGNETIC FREQ. 1**
SCALE: 1 in. = 200 ft. **FRASER FILTER FREQ. 1**
VERTICAL SCALE: 1 in. = 20 ft.
 Drawn By: A.M. MacKenzie



BASELINE

BASELINE



AIM INC. - KAPLAN PROJECT SURVEY

North Part of Property

MALLARD TWP.

DATE: August 11, 1980.

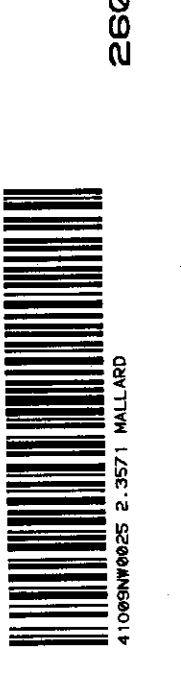
ELECTROMAGNETIC F-2

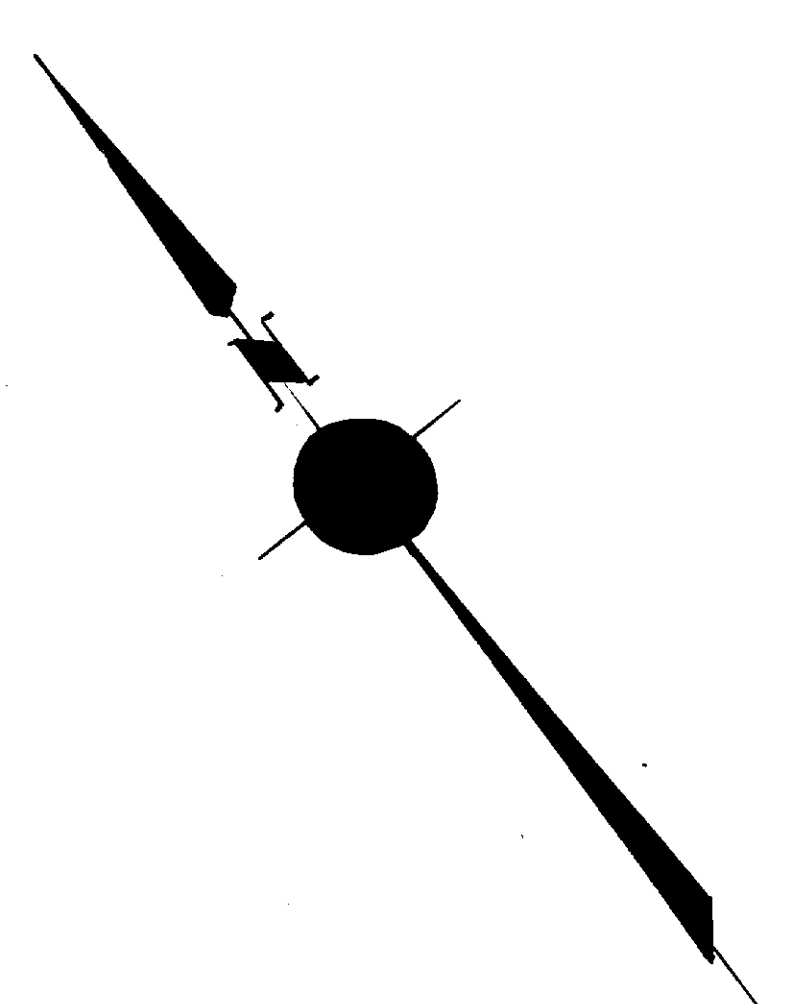
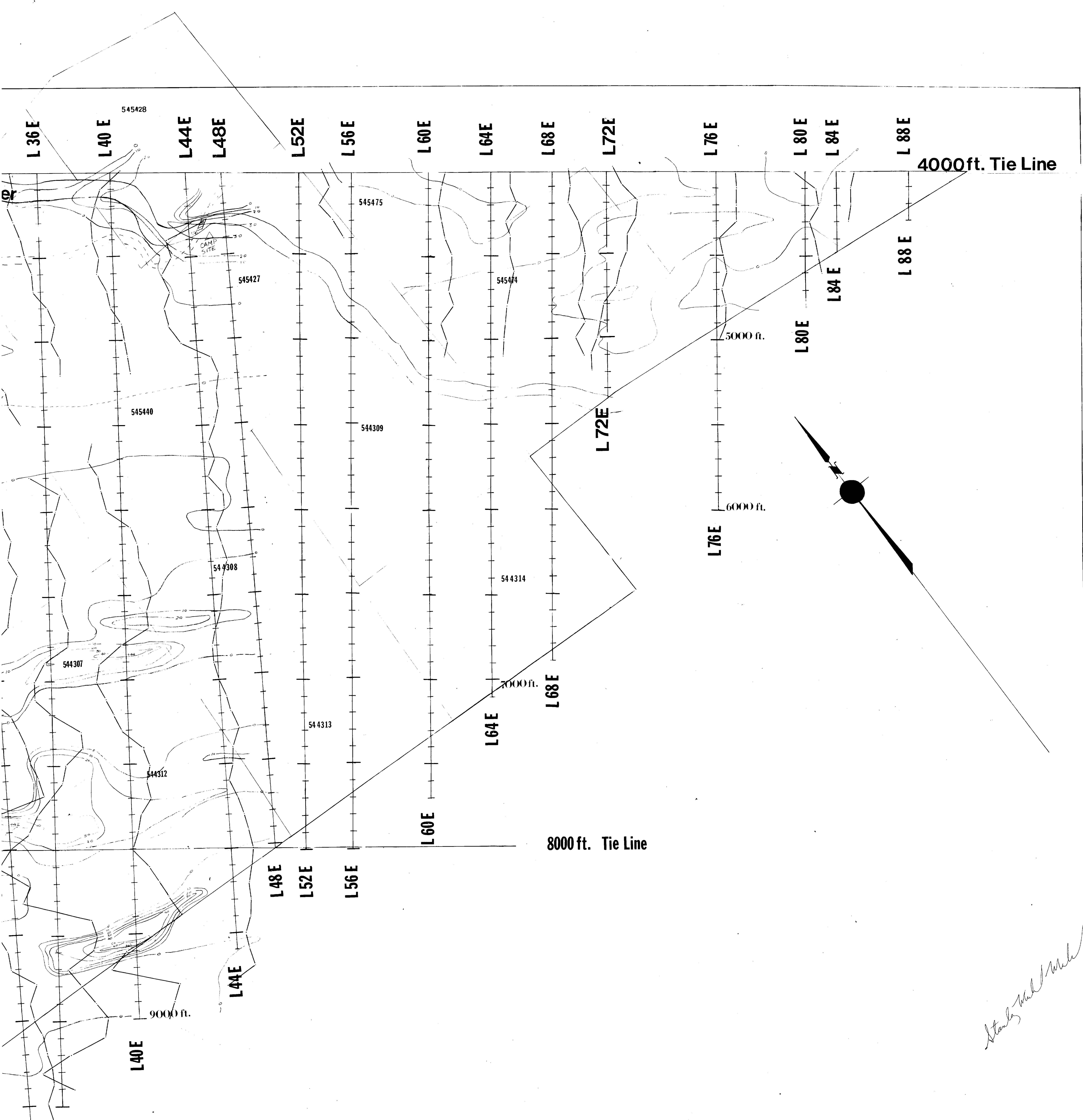
FRASER FILTER F-2

SCALE: 1 in. = 200 ft.

VERTICAL SCALE: 1 in. = 20'

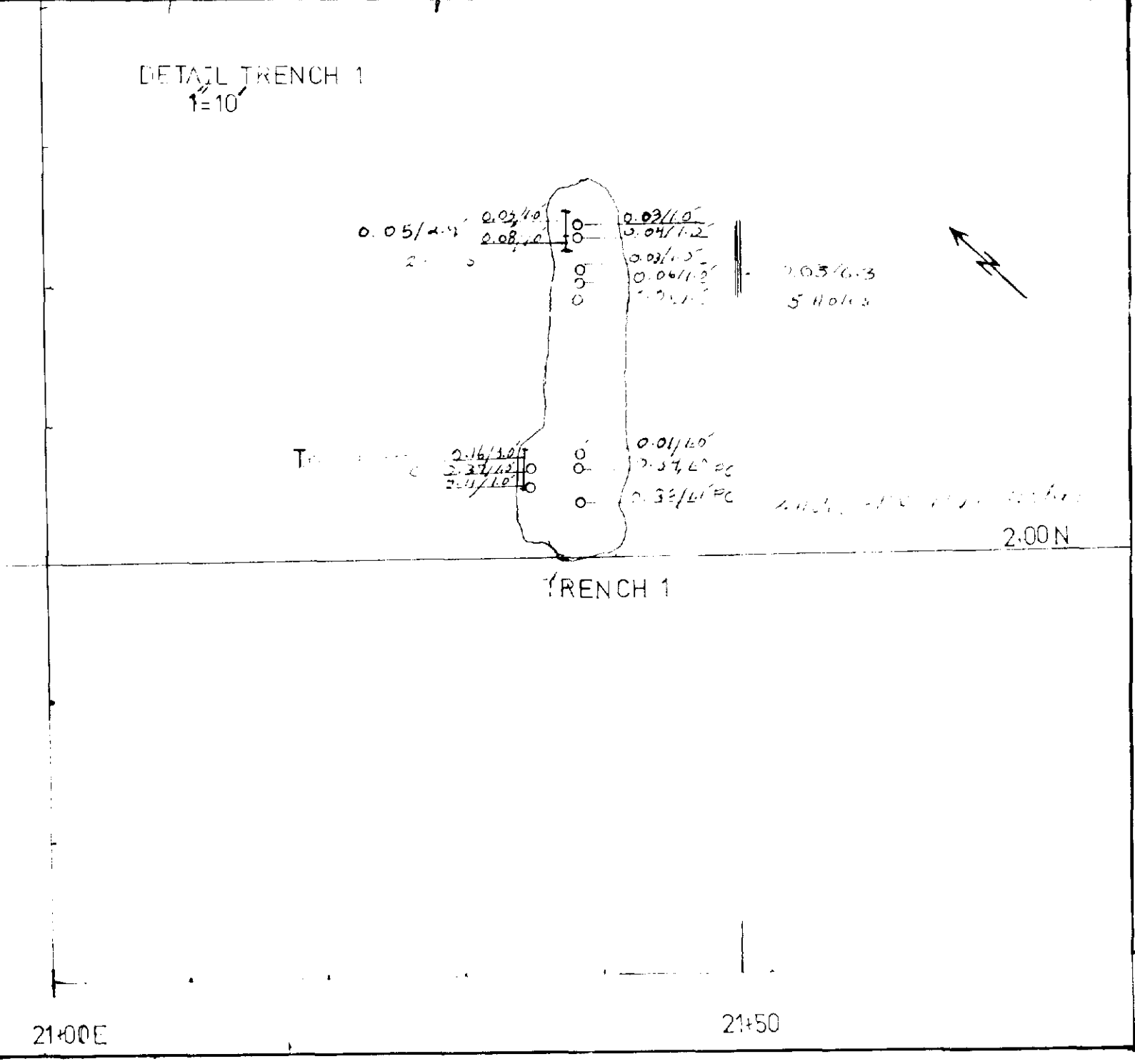
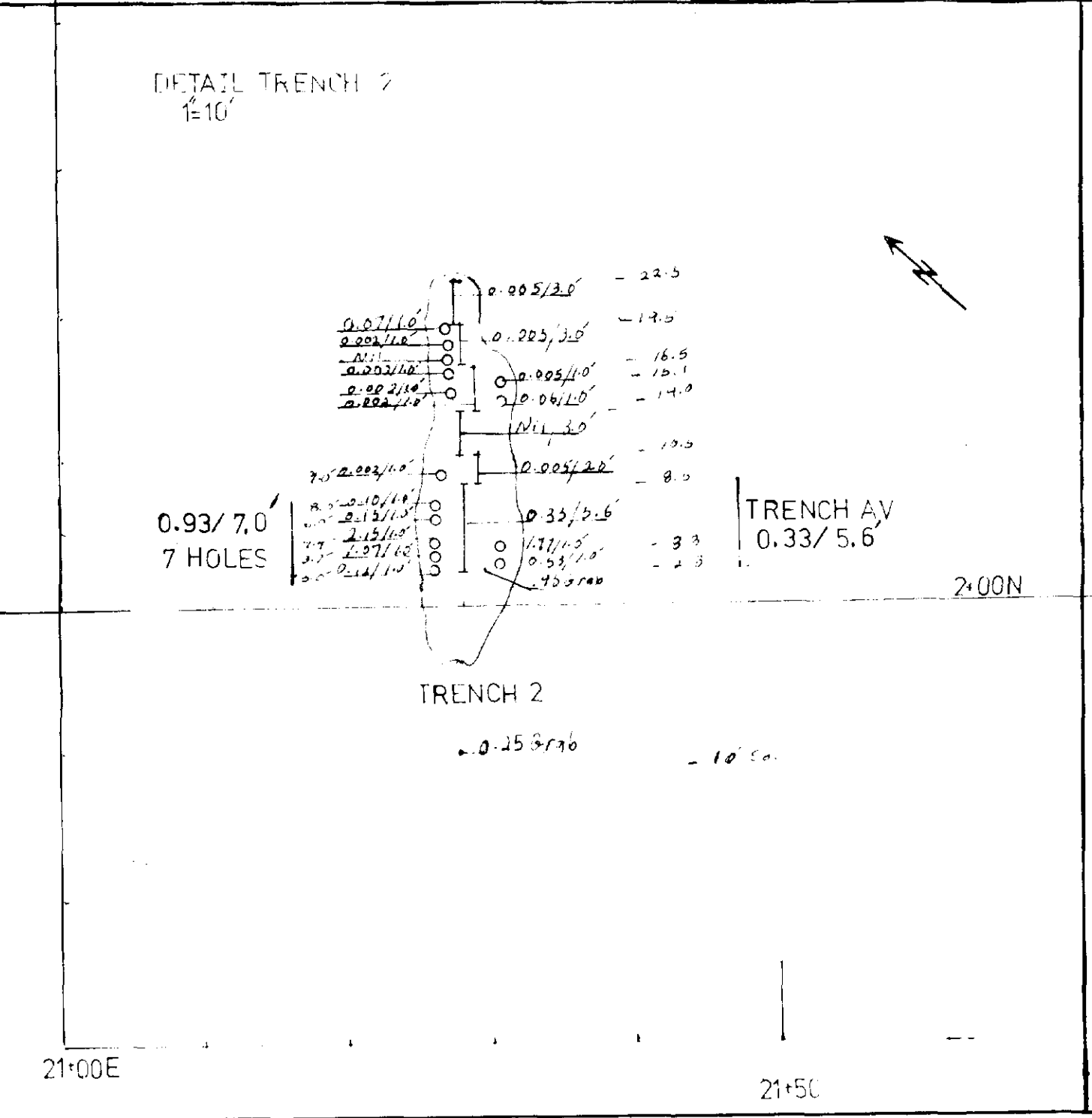
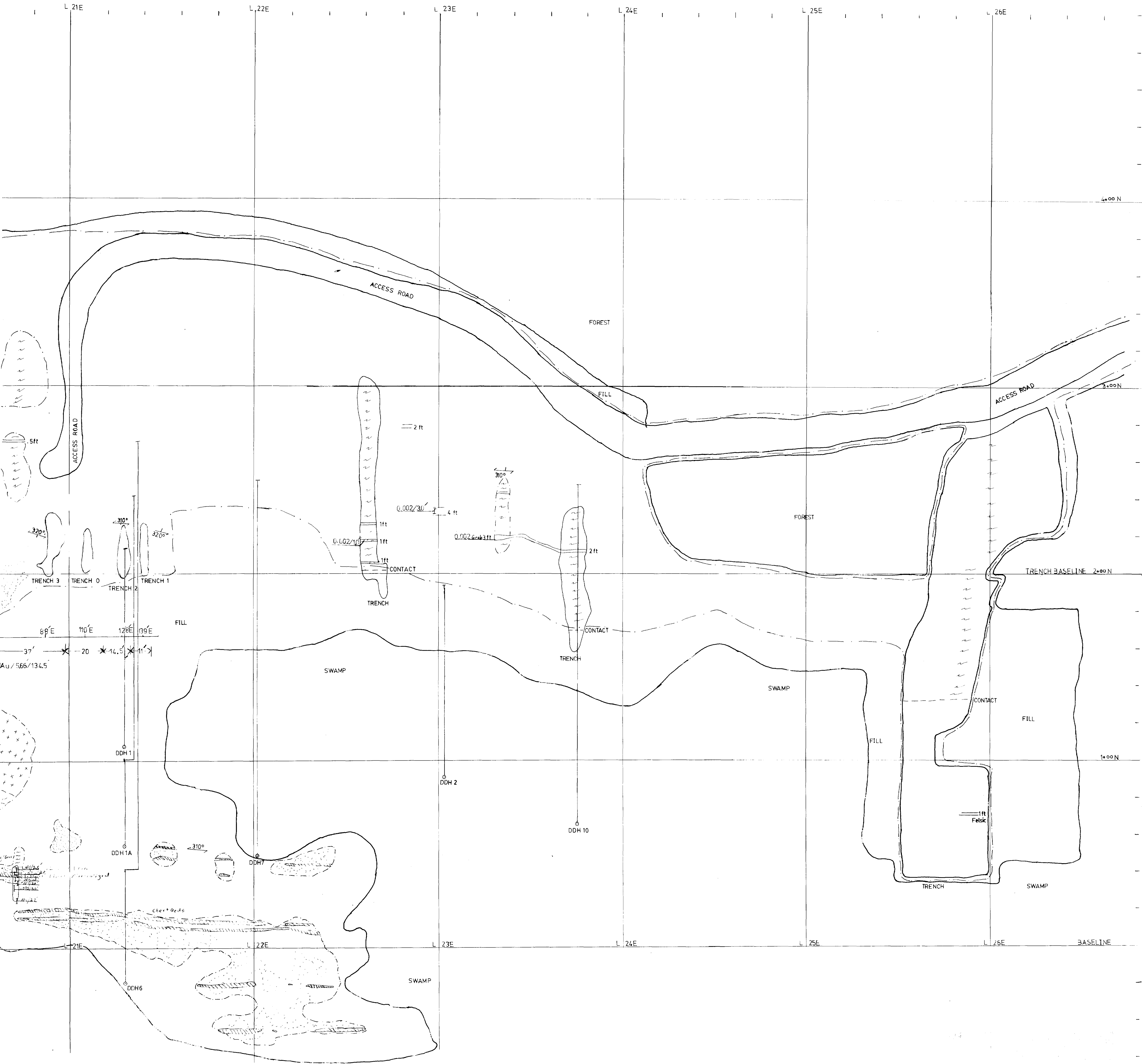
Drawn By: A.M. Markenzie





Standy Mackenzie

AIM INC.-KAPLAN PROJECT SURVEY
 South Part Of Property **MALLARD TWP.**
DATE: August 11, 1980. **ELECTROMAGNETIC FREQ. 2**
SCALE: 1 in. = 200 ft. **FRASER FILTER FREQ. 2**
VERTICAL SCALE: 1 in. = 20' **Drawn By: A.M. Mackenzie**



- LEGEND**
- CHERT BEDS
 - MINERALIZED SEDIMENTS
 - PORPHYRY
 - DIORITE GREENSTONE
 - SHEARED GNEISS
 - PERCUSSION HOLE
 - CHIP SAMPLING

Stark, Michael

AIM INC KAPLAN PROJECT
 MALLARD TOWNSHIP
 SURFACE PLAN AND TRENCH DETAIL
 NORTH PART OF PROPERTY
 SCALE: 1"=20'
 DATE: 24/09/80
 DRAWN BY: J. H. [Signature]