



41016SW0012 2.4261 OSWAY

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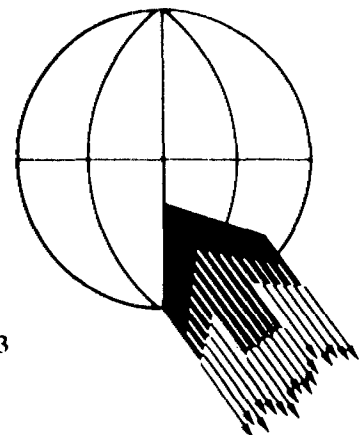
no
 AIRBORNE ELECTROMAGNETIC SURVEY
 BENTON RESOURCES INC.
 OSWAY RESOURCES INC.
 MALLARD RESOURCES INC.
 AND
 THE 4 x 4 SYNDICATE
 PROJECT #23006 JULY 1981

RECEIVED

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ONE

MINING LANDS SECTION





41016SW0012 2.4261 OSWAY

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INTRODUCTION

This report contains the results of an airborne electromagnetic survey flown in the Benton, Osway, Esther and Mallard Townships area of North Eastern Ontario on April 27, 29 and 30, 1981 for Benton Resources Inc., Osway Resources Inc., Mallard Resources Inc., and The 4 x 4 Syndicate.

A brief description of the survey procedure is included.

The survey mileage was 814 line miles and the survey was performed by Questor Surveys Limited. The survey aircraft was a Britten-Norman Trislander C-GNKW and the operating base was Timmins, Ontario,

The area outline is shown on a 1:250,000 map at the end of this report. This is part of the National Topographic Series sheet number 410.

The following were the personnel involved with the airborne survey:-

Pilot	---	Victor Oetke
Co-Pilot	---	Clarmont Flamand
Operator	---	Dennis Borsoi
Engineer	---	Wilf Arbour
Crew Chief	---	Bill Droine

MAP COMPILATION

The base maps are semi-controlled mosaics constructed from 1" = 1320' Ontario Lands and Forests photographs. The mosaics were reproduced at a scale of 1" = 1320' on stable transparent film from which white prints can be made.

Flight path recovery was accomplished by comparison of 35mm film with the mosaic in order to locate the fiducial points. These points are approximately 400 feet apart.

SURVEY PROCEDURE

Terrain clearance was maintained as close to 400 feet as possible, with the E. M. Bird at approximately 150 feet above the ground. A normal S-pattern flight path using approximately one mile turns was used. The equipment operator logged the flight details and monitored the instruments.

A line spacing of 1/8 mile was used.

RESULTS

REFERENCE: Preliminary Map P.675 'Opeepeesway, Rocky Island Lakes Sheet.

This survey was flown to cover an area of economically favourable geology in parts of Benton, Esther, Mallard and Osway Townships in Northeastern Ontario. The area is underlain by felsic mafic metavolcanics along with metasediments and ultra mafic intrusive rocks. There are no producing mines in the area, however, some mineral occurrences do exist.

This INPUT and Magnetic survey was flown in a northeasterly direction to accommodate a general southeasterly strike of the geology. Thirty five definite conductor zones were outlined by the survey. Some of these conductors are long formational zones and graphite has to be considered as a cause of these formational trends. There do, however, exist several attractive base metal targets that should be investigated.

In general, these top priority targets occur as strong conductors of limited strike extent (ie., less than 1 mile strike extent) and have magnetic correlation. This last criteria is however, of least importance as many producing base metal mines have little or no magnetic expression. Also gold exploration cannot be overlooked and some of the weaker conductors could have some significance in looking for gold.

In general, all of the outlined conductors should be explained by some means either by reference to assessment files, prospecting or ground geophysics along with diamond drilling.

There is very little conductive overburden in the area and with the exception of some very weak two-channel responses that have not been outlined, all of the anomalies are considered to have their source in the bedrock.

The following is a brief discription of each of the conductors that have been outlined by the survey.

ZONE 1

This weak conductor lies along the flank of a magnetic ridge and therefore probably along a geologic contact. The double response on line 10120S indicates a dip to the north. Graphite or minor sulphides could be the cause and it would rank as a low priority economic target.

ZONE 2

Moderate conductivity is exhibited by this conductor which has a strike length of approximately one mile. The conductor is in a magnetically low area which could reflect metasediments. Graphite or formational sulphides are likely the cause of the conduction. It would not rank as a high priority base metal target.

ZONES 3, 4 AND 5

These three conductive zones are all associated with a magnetically active area which is probably underlain by mafic to ultramafic intrusive rocks. There is some gabbro and diorite mapped in the area. The conductors are of low to moderate conductivity and in general, indicate a northerly dip. Of the three zones, ZONE 3 should be considered as a good base metal target.

ZONES 6, 7, 8, 9 AND 10

All of these conductors are attractive because of their short strike extent and by virtue of the fact that they are in an area underlain by felsic and mafic metasediments. The conductivities are not strong but the INPUT anomalies indicate a bedrock and possibly a sulphide source. With the exception of ZONE 10, all conductors indicate a dip to the north. An investigation is suggested on these conductors.

ZONE 11

This zone outlines conductance over a strike extent of approximately four miles and is within an area underlain by felsic metavolcanics. The length of the conductor is an unattractive feature of the zone and graphite and/or formational sulphides are the probable causes of the conductor. The conductivity appears consistently low along the strike but at least a cursory examination should be made along the entire length of the zone.

ZONE 12

This long conductor appears to lie along the contact of felsic metavolcanics and mafic metavolcanics. Contrary to ZONE 11, the conductivity of this zone does vary along strike and it is recommended that the stronger areas be given a serious investigation. The areas around intercept 10300 E and F, and the extreme southeast end should be detailed with ground geophysics.

ZONE 13

A high priority should be given to this conductor which exhibits moderate to high conductivity and has direct magnetic correlation. Massive sulphides could be the cause of the conduction. Felsic metavolcanics have been mapped in the area.

ZONE 14

The short strike extent of the conductor makes it an attractive feature even though the conductivity exhibited by the anomalies is not high. Sulphides could be the cause.

ZONE 15

This conductor is an exceptionally long conductor and graphite has to be considered as the probable cause of the conduction. For the most part, the conductivity is strong and is probably continuous throughout its strike extent. The conductor is related to a large circular magnetic feature at its north west extremity and this magnetic feature could outline an iron formation. The remainder of this conductor does not have any prominent magnetic correlation. A consistent dip to the south is shown by the anomalies. Prospecting should be at least carried out along the length of this conductor.

ZONE 16

The anomalies of this zone show a very weak conductor which is not recommended for follow-up.

ZONE 17

The west end of this conductor should definitely be examined as strong conductivity is shown by the INPUT responses. There also appears to be more than one conductor present at this west end. The eastern portion indicates lower conductivity.

ZONE 18

Conductor intercept 10520F of this zone is a sharp, well defined INPUT anomaly that is representative of those that result from massive sulphides. The remainder of the anomalies in this grouping are weaker but they are definite bedrock responses. A high priority should be given to this zone.

ZONE 19

Similar to ZONE 18, this conductor should be ranked as a high priority target. The central part of the zone exhibits high conductivity and sulphides could be the cause.

ZONE 20

This conductor which flanks ZONE 11 to the south should be considered as a medium priority target in the ground follow-up program. The anomalies are definite bedrock responses and there is a subtle magnetic anomaly related to the conductor. Sulphides could be the cause.

ZONE 21

This conductor is on strike with ZONE 11 and in fact, it may be continuous with it. The anomalies of this zone, however, are stronger than those of ZONE 11 and it could have a different cause. A medium priority should be given to this conductor and it should be followed-up with ground geophysics.

ZONES 22, 23, 24 AND 25

Copper and zinc sulphides have been found close to this grouping of conductors and for this reason, all of these conductors should be given an examination. ZONE 22 is quite weak whereas the other zones show moderate conductivity. Sulphides are probably the cause of all these conductors. Mafic and felsic metavolcanics have been mapped in the area.

ZONE 27

A high priority should be accorded this conductor. The anomalies are strong, there is magnetic correlation and it has limited strike extent. Metavolcanics and metasediments underlie the area.

ZONE 28

Similar to ZONE 27, this conductor should be ranked as a high priority target. It however, is not as strong as ZONE 27 and there appears to be two separate conductors in this zone. Since the anomalies have direct magnetic correlation, sulphides are likely the cause.

ZONE 29

This zone, which has two separate parallel conductors, flanks ZONE 15 which is to the north. The anomalies of ZONE 29 are low conductivity responses and would be considered low priority targets. Felsic metavolcanics have, however, been mapped in the area and a gold/silver showing has been noted on strike to the south-east.

ZONE 30

This grouping of weak anomalies occurs close to the gold/silver showing mentioned above and for this reason, ground work is recommended. The anomalies are however, quite weak and small conductors are expected on the ground. Felsic and mafic volcanics along with some sediments and ultra mafic rocks have been mapped in the vicinity of these anomalies.

ZONE 31

Conductor intercept 10720E is a sharp, well defined anomaly which exhibits a vertical dip. The anomalies on the adjacent lines are weaker and of poor quality. This conductor should rank as a medium priority target.

ZONE 32

This conductor corresponds to a magnetite, pyrite, chalcopyrite, asbestos and gold showing and is coincident with a high circular magnetic feature. The strongest INPUT anomalies (ie., intercepts 10790C and 10800C) are coincident with the strongest part of the magnetic feature. Sulphides along with the magnetite are the likely causes of this conduction. Since this zone has obviously been investigated, no further work is suggested.

ZONE 33

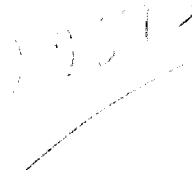
This conductor has not been fully defined because it occurs on the last two lines of this survey. The four anomalies on line 10830N do however, suggest a bedrock source and for this reason, ground work is recommended.

ZONES 34 AND 35

These two areas of weak conduction are considered to be low priority targets. The anomalies are weak, staggered and associated with a linear magnetic feature. It is possible that the INPUT system is responding to the edge of a magnetic body and it is felt that magnetite is the cause of these very weak responses. It would be difficult for ground E. M. systems to locate these conductors.



D. WATSON.



APPENDIX

EQUIPMENT

The aircraft is equipped with a Mark VI INPUT (R) airborne E.M. system and Sonotek P.M.H. 5010 Proton Magnetometer. Radar altimeters are used for vertical control. The outputs of these instruments together with fiducial timing marks are recorded by means of galvanometer type recorders using light sensitive paper. Thirty-five millimeter continuous strip cameras are used to record the actual flight path.

(I) BARRINGER/QUESTOR MARK VI INPUT (R) SYSTEM

The Induced Pulse Transient (INPUT) system is particularly well suited to the problems of overburden penetration. Currents are induced into the ground by means of a pulsed primary electromagnetic field which is generated in a transmitting loop around the aircraft. By using half sine wave current pulses and a loop of large turns-area, the high output power needed for deep penetration is achieved.

The induced current in a conductor produces a secondary electromagnetic field which is detected and measured after the termination of each primary pulse. Detection is accomplished by means of a receiving coil towed behind the aircraft on four hundred feet of cable,

and the received signal is processed and recorded by equipment in the aircraft. Since the measurements are in the time domain rather than the frequency domain common to continuous wave systems, interference effects of the primary transmitted field are eliminated. The secondary field is in the form of a decaying voltage transient originating in time at the termination of the transmitted pulse. The amplitude of the transient is, of course, proportional to the amount of current induced into the conductor and, in turn, this current is proportional to the dimensions, the conductivity and the depth beneath the aircraft.

The rate of decay of the transient is inversely proportional to conductivity. By sampling the decay curve at six different time intervals, and recording the amplitude of each sample, an estimate of the relative conductivity can be obtained. By this means, it is possible to discriminate between the effects due to conductive near-surface materials such as swamps and lake bottom silts, and those due to genuine bedrock sources. The transients due to strong conductors such as sulphides exhibit long decay curves and are therefore commonly recorded on all six channels. Sheet-like surface materials, on the other hand, have short decay curves and will normally only show a response in the first two or three channels.

The samples, or gates, are positioned at 310, 490, 760, 1120, 1570 and 2110 micro-seconds after the cessation of the pulse. The widths of the gates are 180, 180, 360, 360, 540, and 540 micro-seconds respectively.

For homogeneous conditions, the transient decay will be exponential and the time constant of decay is equal to the time difference at two successive sampling points divided by the log ratio of the amplitudes at these points.

(II) SONOTEK P.M.H. 5010 PROTON MAGNETOMETER

The magnetometers which measure the total magnetic field have a sensitivity of 1 gamma and a range from 20,000 gammas to 100,000 gammas.

Because of the high intensity field produced by the INPUT transmitter, the magnetometer results are recorded on a time-sharing basis. The magnetometer head is energized while the transmitter is on, but the read-out is obtained during a short period when the transmitter is off. Using this technique, the head is energized for 0.83 seconds while the precession frequency is being recorded and converted to gammas. Thus a magnetic reading is taken every 1.13 second.

For this survey, a lag factor has been applied to the data. Magnetic data recorded on the analogue records at fiducial 10.00 for example would be plotted at fiducial 9.95 on the mosaics.

DATA PRESENTATION

The symbols used to designate the anomalies are shown in the legend on each map sheet, and the anomalies on each line are lettered in alphabetical order in the direction of flight. Their locations are plotted with reference to the fiducial numbers on the analog record.

A sample record is included to indicate the method used for correcting the position of the E.M. Bird and to identify the parameters that are recorded.

All the anomaly locations, magnetic correlations, conductivity-thickness values and the amplitudes of channel number 2 are listed on the data sheets accompanying the final maps.

GENERAL INTERPRETATION

The INPUT system will respond to conductive overburden and near-surface horizontal conducting layers in addition to bedrock conductors. Differentiation is based on the rate of transient decay, magnetic correlation and the anomaly shape together with the conductor pattern and topography.

Power lines sometimes produce spurious anomalies but these can be identified by reference to the monitor channel.

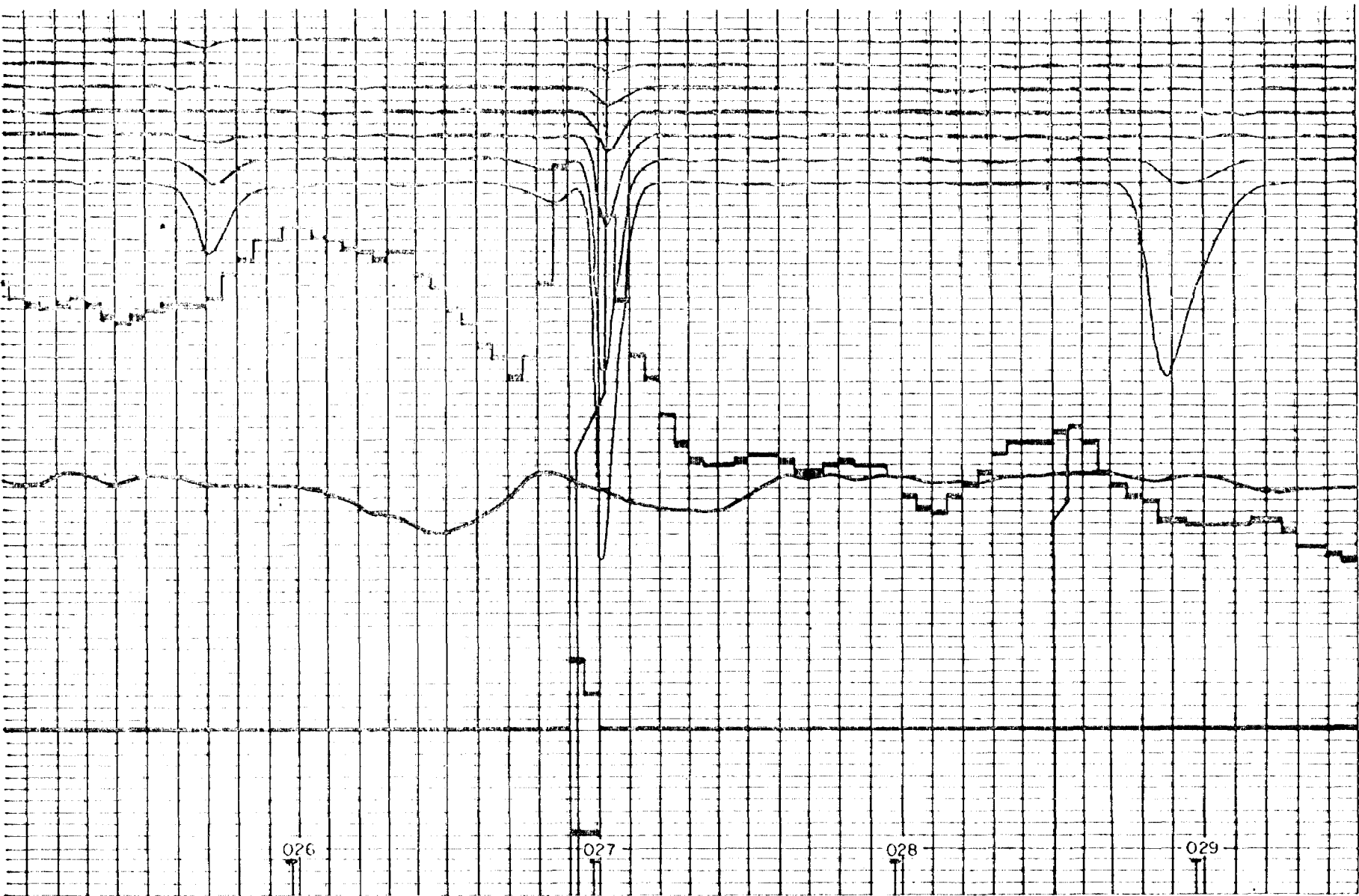
Railroad and pipeline responses are recognized by studying the film strips.

Graphite or carbonaceous material exhibits a wide range of conductivity. When long conductors without magnetic correlation are located on or parallel to known faults or photographic linears, graphite is most likely the cause.

Contact zones can often be predicted when anomaly trends coincide with the lines of maximum gradient along a flanking magnetic anomaly. It is unfortunate that graphite can also occur as relatively short conductors and produce attractive looking anomalies. With no other information than the airborne results, these must be examined on the ground.

Serpentinized peridotites often produce anomalies with a character that is fairly easy to recognize. The conductivity which is probably caused in part by magnetite, is fairly low so that the anomalies often have fairly large response on channel #1; they decay rapidly, and they have strong magnetic correlation. INPUT E.M. anomalies over massive magnetites show a relationship to the total Fe content. Below 25 - 30%, very little or no response at all is obtained, but as the percentage increases the anomalies become quite strong with a characteristic rate of decay which is usually greater than that produced by massive sulphides.

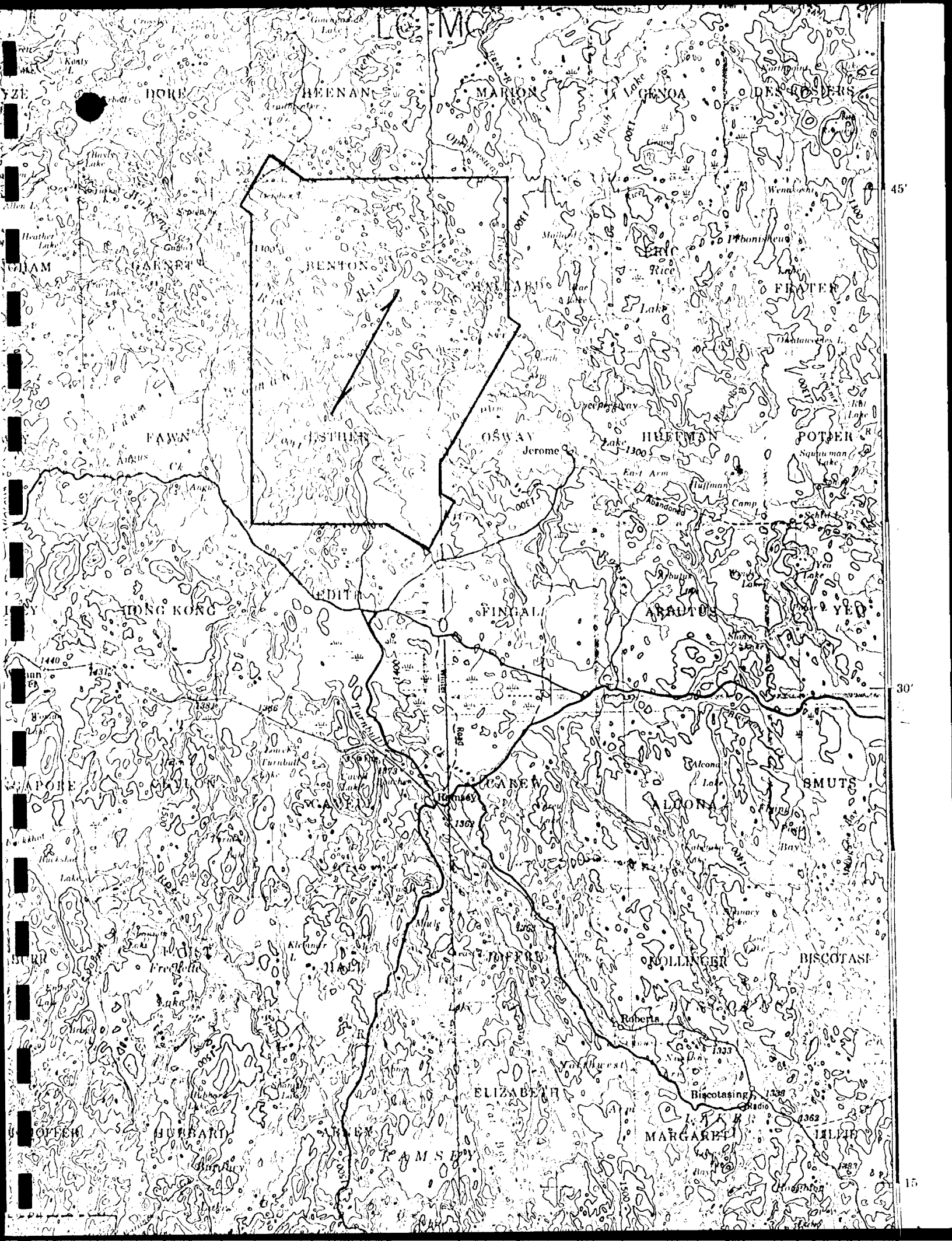
Commercial sulphide ore bodies are rare, and those that respond to airborne survey methods usually have medium to high conductivity. Limited lateral dimensions are to be expected and many have magnetic correlation caused by magnetite or pyrrhotite. Provided that the ore bodies do not occur within formational conductive zones as mentioned above, the anomalies caused by them will usually be recognized on an E.M. map as priority targets.



Power Monitor
 INPUT[®] EM channels
 EM Amplitude 600 p.p.m.
 92 m Radio
 120 m Altimeter
 154 m
 Magnetometer Fine Scale 20 Gammas
 Magnetometer Coarse Scale 1000 Gammas

026 Fiducial Timing Mark
 026.93 Anomaly Location
 028 Mag Location
 029

Representative INPUT[®], Magnetometer and Altimeter Recording



FINAL MALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10010A	435.933	2		56	NC	-	
10040A	420.214	4		130	6	-	
10050A	419.646	2		33	NC	-	
10091A	348.595	3		138	16	348.60	575
10091B	349.666	2		48	NC	349.35	297
10100A	344.601	2		50	NC	344.20	619
10100B	344.795	2		59	NC	344.95	14
10100C	345.742	2		44	NC	345.70	30
10110A	336.356	4		252	3	-	
10110B	336.591	6		521	14	336.55	225
10110C	340.082	3		146	3	-	
10110D	342.040	3		65		-	
10120A	330.809	3		76		-	
10120B	331.003	3		64		331.15	62
10120C	332.825	3		130	12	333.05	25
10120D	333.843	2		33	NC	-	
10120E	336.076	6		746	12	335.95	577
10130A	322.579	4		172	4	-	
10130B	322.873	5		391	7	322.80	579
10130C	325.379	2		44	NC	-	
10130D	326.476	4		235	2	-	
10131A	327.048	2		63	NC	327.30	21
10131B	328.031	4		229	2	328.35	166
10131C	329.944	3		67		329.60	58
10140A	316.897	2		34	NC	-	
10140B	318.047	3		156	3	317.50	241
10140C	319.085	4		91	8	318.40	9
10140D	320.671	2		30	NC	-	
10140E	321.262	5		447	5	-	
10150A	310.538	2		39	NC	310.15	127
10150B	310.858	3		68		311.15	38
10150C	311.932	3		105	11	312.30	235

FINAL MALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10151A	313.092	4		115	1	313.40	273
10151B	314.232	2		30	NC	314.60	66
10160A	301.292	2		30	NC	300.85	70
10160B	302.514	4		179	4	301.95	287
10160C	303.613	4		167	7	303.15	36
10160D	305.053	2		42	NC	304.50	574
10160E	305.341	2		39	NC	305.10	227
10170A	293.395	2		31	NC	-	
10170B	293.621	2		68	NC	293.55	75
10170C	294.009	2		59	NC	294.40	531
10170D	295.547	3		87	32	295.90	50
10170E	296.759	4		234	3	297.25	159
10170F	297.802	2		50	NC	-	
10180A	286.882	3		77	68	-	
10180B	287.026	3		49	50	287.25	112
10180C	288.014	5		471	5	287.85	390
10180D	288.461	3		124	2	288.30	180
10190A	272.558	4		113	5	272.70	20
10190B	275.895	2		47	NC	275.85	126
10190C	276.179	3		76	2		
10190D	276.355	3		129	11	276.30	382
10190E	277.564	3		91	9	-	
10190F	278.902	2		38	NC	279.00	5
10200A	262.962	2		30	NC	263.25	52
10200B	265.298	2		34	NC	265.15	239
10200C	267.242	4		249	1	267.40	8
10200D	268.230	4		137	3	268.10	432
10200E	268.756	3		34	1	-	
10210A	255.693	2		30	NC	-	
10210B	256.041	3		57	42	-	
10210C	256.271	3		89	12	256.20	691
10210D	257.349	4		229	1	-	
10210E	259.206	2		30	NC	259.45	378
10220A	247.187	3		153	4	247.05	11
10220B	248.162	3		134	5	248.05	365
10230A	236.144	3		77	40	236.05	595
10230B	237.217	3		114	6	237.20	31
10230C	238.715	2		30	NC	238.50	10

FINAL
ANOMALY

FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10240A	2		30	NC	223.30	11
10240B	3		63	12	224.40	37
10240C	3		50		225.50	559
10240D	2		30	NC	228.55	12
10240E	4		82	10	229.25	178
10250A	4		79	3	-	
10250B	3		42	1	210.55	53
10250C	2		39	NC	213.80	527
10250D	2		30	NC	214.95	46
10250E	2		30	NC	216.55	4
10250F	2		30	NC	218.40	117
10260A	2		50	NC	198.90	8
10260B	2		30	NC	199.80	48
10260C	2		30	NC	200.90	860
10260D	6		375	20	202.15	19
10260E	3		50	1	-	
10260F	6		266	21	204.05	77
10270A	2		30	NC	-	
10270B	6		208	15	187.70	27
10270C	6		467	21	188.05	74
10270D	2		36	NC	189.30	714
10270E	3		30	1	190.55	14
10270F	3		105	23	191.60	17
10280A	4		156	1	174.70	7
10280B	3		37	1	175.90	7
10280C	6		456	11	176.70	2141
10280D	4		219	1	-	
10280E	4		300	1	-	
10280F	6		672	7	177.90	89
10280G	6		894	15	-	
10290A	6		1092	10	162.80	92
10290B	2		30	NC	-	
10290C	4		320	1	-	
10290D	3		111	5	164.10	1947
10290E	3		64		-	
10290F	4		174	2	165.55	36
10290G	5		277	2	166.55	6
10290H	2		30	NC	-	
10290J	3		86	2	167.55	1186
10300A	2		30	NC	143.35	1030
10300B	3		46	1	147.05	333
10300C	3		46	1	-	
10300D	3		93	87	148.00	9

FINAL ANALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10300E	148.929	3		68		148.85	29
10300F	149.168	6		375	15	149.45	80
10300G	150.273	3		50	1	150.20	180
10300H	150.485	6		981	7	150.35	174
10300J	151.162	3		75		-	
10300K	151.329	6		428	6	151.30	71
10310A	134.226	3		30	1	134.30	33
10310B	134.388	4		132	6	-	
10310C	135.173	4		195	4	-	
10310D	135.372	6		788	9	135.35	734
10310E	136.870	5		320	3	137.05	27
10310F	138.307	2		30	NC	138.40	4
10310G	139.097	2		30	NC	139.20	111
10310H	142.190	2		30	NC	142.35	72
10310J	142.646	2		30	NC	-	
10320A	113.729	6		167	14	113.80	4000
10320B	114.323	1	60		NC	-	
10320C	115.267	2		30	NC	-	
10320D	116.638	1	60		NC	116.55	7
10320E	117.834	1	86		NC	117.60	244
10320F	118.642	2		30	NC	118.10	6
10320G	118.831	2		30	NC	119.10	49
10320H	119.923	3		111	28	119.65	23
10320J	121.112	6		558	12	121.00	417
10320K	121.518	3		30	1	-	
10330A	104.533	2		103	NC	-	
10330B	104.682	4		128	8	-	
10330C	104.957	6		435	12	104.90	381
10330D	106.338	3		88		106.50	33
10330E	107.843	3		30	1	107.85	19
10330F	108.818	5		191	17	108.85	150
10330G	111.703	3		48	1	-	
10340A	83.200	2		30	NC	83.10	149
10340B	83.493	3		147	4	-	
10340C	85.632	3		57	1	-	
10340D	85.835	3		82		85.80	16
10340E	86.866	2		30	NC	86.75	38
10340F	88.197	2		30	NC	-	
10340G	88.603	2		32	NC	88.45	14
10340H	89.361	5		229	4	89.20	180
10340J	89.686	2		42	NC	-	
10350A	73.243	2		105	NC	-	
10350B	73.622	4		127	4	73.60	120
10350C	74.475	3		37	1	74.50	22
10350D	74.922	3		65		75.00	11

FINAL MALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10350E	76.467	1	107		NC	76.30	34
10350F	77.600	4		190	2	77.45	19
10350G	80.314	5		325	2	80.50	223
10350H	81.045	2		30	NC	81.35	65
10360A	50.618	2		37	NC	50.60	289
10360B	50.857	4		118	6	-	
10360C	53.198	2		31	NC	-	
10360D	53.424	2		30	NC	-	
10360E	54.311	2		30	NC	54.40	62
10360F	55.664	3		81	39	55.80	43
10360G	56.030	3		206	1	-	
10360H	56.842	6		513	8	56.60	46
10360J	57.210	2		30	NC	57.35	13
10371A	40.537	2		98	NC	-	
10371B	40.650	5		148	15	-	
10371C	40.889	6		470	9	41.15	15
10371D	41.855	3		142	1	41.95	47
10371E	42.319	3		161	5	-	
10371F	43.897	2		30	NC	43.50	38
10371G	44.375	2		30	NC	44.20	12
10371H	44.835	3		52	1	44.40	7
10371J	47.888	4		140	3	48.05	154
10371K	48.560	2		30	NC	48.50	35
10380A	10.899	3		69	5	-	
10380B	11.057	3		166	1	11.00	21
10380C	11.445	3		57	1	11.35	154
10380D	11.621	4		169	1	-	
10380E	14.475	2		30	NC	-	
10380F	14.602	4		76	18	14.85	6
10380G	15.161	3		79	3	15.35	5
10380H	16.118	2		30	NC	-	
10380J	16.442	3		142	76	16.30	8
10380K	16.894	3		120	1	16.60	45
10380L	17.731	4		245	1	17.55	56
10390A	907.090	2		78	NC	906.85	9
10390B	907.605	4		175	3	907.65	53
10390C	908.494	2		30	NC	908.70	9
10390D	909.009	4		196	3	-	
10390E	910.445	4		371	1	910.20	9
10390F	910.923	2		30	NC	-	
10390G	911.085	3		68	1	911.10	7
10390H	914.424	4		869	1	914.60	146
10390J	915.056	3		322	1	914.95	9
10400A	881.376	2		39	NC	-	
10400B	881.638	2		45	NC	881.55	92

FINAL ID	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10400C	881.976	3		120	1	882.00	345
10400D	882.152	4		314	1	-	
10400E	885.087	3		77	3	885.10	7
10400F	885.236	4		155	6	-	
10400G	885.692	3		105	1	-	
10400H	885.967	3		274	1	886.25	155
10400J	887.027	3		67	1	-	
10400K	887.217	3		130	6	887.40	15
10400L	887.763	2		30	NC	887.75	9
10400M	888.492	5		433	1	888.00	20
10400N	888.871	3		46	1	-	
10400P	889.160	2		46	NC	889.05	9
10411A	861.122	3		126	1	861.00	7
10411B	861.357	3		101	1	-	
10411C	861.795	3		129	1	-	
10411D	862.160	2		30	NC	862.25	64
10411E	862.674	2		30	NC	862.60	14
10411F	863.004	6		298	14	-	
10411G	864.420	4		163	2	-	
10411H	864.996	2		48	NC	-	
10411J	868.261	4		254	6	868.50	159
10412A	871.232	2		30	NC	-	
10412B	871.485	3		70	1	-	
10412C	871.895	3		114	1	-	
10412D	872.635	2		30	NC	-	
10412E	872.825	2		58	NC	-	
10412F	873.095	6		426	11	-	
10412G	874.386	3		226	1	-	
10412H	875.144	2		39	NC	875.15	4
10412J	875.573	4		192	2	875.60	8
10412K	878.350	4		155	9	878.35	364
10412L	878.878	3		139	1	878.80	72
10420A	829.877	2		30	NC	-	
10420B	830.166	2		30	NC	830.15	8
10420C	830.635	2		31	NC	830.55	837
10420D	834.125	2		30	NC	-	
10420E	834.441	3		56	1	834.55	45
10420F	835.434	2		53	NC	-	
10420G	835.646	3		112	7	-	
10420H	835.966	3		434	1	835.90	94
10420J	836.267	3		87	1	836.10	8
10420K	837.029	4		172	2	837.10	9
10420L	837.417	2		30	NC	-	
10420M	837.742	3		172	1	837.75	3
10430A	819.050	2		40	NC	-	
10430B	819.362	3		206	2	819.30	5
10430C	819.610	3		81	1	819.85	5

FINAL MALLY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10430D	820.119	3		109	2	820.10	12
10430E	820.909	3		118	1	821.00	189
10430F	821.094	3		277	1	-	
10430G	821.441	4		152	5		
10430H	822.761	3		168	1	822.40	50
10440A	797.628	2		45	NC	797.75	26
10440B	798.972	3		124	12	-	
10440C	799.153	6		1005	5	799.15	177
10440D	799.342	6		577	8	-	
10440E	800.163	5		536	5	799.95	14
10440F	800.626	2		30	NC	-	
10440G	800.861	4		305	3	800.95	4
10440H	803.135	2		30	NC	803.40	14
10450A	781.809	3		201	1	-	
10450B	781.980	3		189	1	781.90	5
10450C	782.228	3		117	2	-	
10450D	782.472	5		492	5	782.55	14
10450E	783.130	6		301	23	-	
10450F	783.302	6		954	17	783.35	183
10450G	783.491	4		239	5	-	
10450H	785.141	3		120	1	784.80	43
10450J	789.723	2		30	NC	789.60	18
10460A	754.396	2		56	NC	754.30	12
10460B	758.527	2		63	NC	758.60	129
10460C	760.064	2		91	NC	760.00	147
10460D	760.231	5		375	5	-	
10460E	760.993	6		963	12	760.75	6
10460F	761.097	6		910	7	-	
10460G	761.688	3		128	1	761.90	8
10470A	742.306	2		40	NC	742.25	8
10470B	742.707	3		206	1	-	
10470C	743.213	6		1021	12		
10470D	743.362	6		518	11	743.45	8
10470E	744.205	4		225	6	744.25	108
10470F	745.995	2		75	NC	745.60	116
10470G	750.356	4		240	1	750.55	99
10481A	715.595	3		86	1	715.45	75
10481B	715.816	4		398	1	715.75	4
10481C	720.064	3		46	14	720.20	90
10481D	721.452	2		36	NC	721.45	10
10481E	721.831	3		180	1	721.75	87
10481F	722.332	3		36	1	722.30	12
10481G	722.626	6		596	15	-	
10481H	723.194	3		130	1	-	

FINAL DMALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10490A	701.371	2		64	NC	-	
10490B	701.714	2		85	NC	-	
10490C	701.984	3		204	3	-	
10490D	702.124	4		289	4	702.10	81
10490E	702.305	5		376	11	-	
10490F	702.792	2		51	NC	-	
10490G	702.977	4		173	14	702.90	153
10490H	704.715	4		239	2	704.35	160
10490J	705.045	3		92	32	-	
10490K	705.984	2		30	NC	706.25	102
10490L	709.344	5		1014	1	709.25	10
10500A	673.759	2		30	NC	-	
10500B	674.409	3		59	1	674.15	96
10500C	678.403	4		147	10	-	
10500D	678.557	2		72	NC	-	
10500E	678.737	3		91	1	678.85	69
10500F	680.303	3		66	7	680.10	103
10500G	680.578	2		47	NC	680.55	9
10500H	680.912	3		200	1	-	
10500J	681.034	4		166	10	-	
10500K	681.313	4		203	5	-	
10500L	682.094	2		44	NC	682.10	7
10510A	661.651	2		37	NC	-	
10510B	661.993	2		75	NC	-	
10510C	662.255	3		196	1	-	
10510D	662.697	3		137	1	-	
10510E	663.365	2		59	NC	-	
10510F	664.893	3		75	7	664.55	61
10510G	665.254	4		125	20	665.15	5
10510H	669.317	2		30	NC	-	
10510J	669.560	2		30	NC	669.50	112
10520A	634.492	2		30	NC	634.45	86
10520B	634.759	2		33	NC	-	
10520C	638.686	4		186	1	-	
10520D	639.262	2		42	NC	639.15	21
10520E	640.408	3		108	9	640.55	156
10520F	641.107	6		508	12	641.00	10
10520G	641.577	6		427	19	-	
10520H	642.447	2		36	NC	-	
10520J	646.121	2		30	NC	646.30	125
10530A	613.129	2		32	NC	613.15	99
10530B	622.470	3		79	-	-	
10530C	622.727	5		354	22	622.80	10
10530D	623.011	3		129	3	-	
10530E	623.196	4		439	2	-	
10530F	623.706	2		51	NC	623.50	89
10530G	623.927	4		241	3	-	

FINAL ANALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10530H	625.186	2		30	NC	625.05	31
10530J	625.416	2		42	NC	-	
10530K	625.752	4		198	2	-	
10530L	629.856	2		30	NC	629.80	119
10530M	630.050	2		30	NC	-	
10540A	595.703	2		50	NC	595.55	52
10540B	599.667	2		35	NC	-	
10540C	600.019	2		35	NC	600.10	41
10540D	601.111	5		532	5	601.15	114
10540E	602.260	6		785	6	602.20	11
10540F	603.058	2		30	NC	602.95	23
10550A	581.016	2		31	NC	581.10	6
10550B	582.920	2		30	NC	582.75	23
10550C	583.525	4		200	6	-	
10550D	583.755	4		350	4	583.75	7
10550E	584.786	3		144	2	584.75	116
10550F	584.958	4		309	3	-	
10550G	586.158	2		30	NC	585.95	11
10550H	590.830	2		30	NC	590.90	17
10560A	556.333	2		30	NC	556.35	51
10560B	556.576	3		192	1	-	
10560C	557.901	2		30	NC	557.75	15
10560D	561.025	2		33	NC	560.90	14
10560E	562.009	2		30	NC	561.95	253
10560F	563.168	4		130	4	-	
10560G	563.979	2		30	NC	564.30	64
10570A	541.675	3		83	2	542.15	82
10570B	544.152	2		30	NC	543.75	21
10571A	550.638	3		186	1	550.70	46
10580A	514.887	3		125	1	514.70	83
10580B	518.306	2		30	NC	-	
10580C	518.770	2		30	NC	-	
10580D	518.906	3		110	1	518.95	45
10580E	520.706	4		147	9	-	
10580F	520.873	5		416	7	-	
10580G	521.570	2		41	NC	-	
10580H	521.823	2		47	NC	522.15	174
10580J	528.915	2		30	NC	529.05	12
10590A	415.691	2		30	NC	-	
10590B	415.994	2		30	NC	416.00	106
10590C	425.104	3		78	7	-	

FINAL MALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10590D	425.276	3		66	1	425.25	5
10590E	425.799	3		153	1	425.70	19
10590F	426.002	4		250	3	-	
10590G	426.246	3		97	3	-	
10590H	427.513	2		30	NC	-	
10590J	428.186	3		116	1	427.95	46
10590K	432.577	2		59	NC	432.65	74
10600A	399.905	1	63		NC	400.05	24
10600B	401.159	2		31	NC	401.30	2
10600C	403.761	4		216	4	403.80	82
10600D	405.380	6		413	28	-	
10600E	405.791	2		56	NC	-	
10600F	406.579	3		84	1	406.80	151
10610A	385.620	2		69	NC	385.70	22
10610B	385.783	4		109	18	-	
10610C	386.667	3		109	5	-	
10610D	386.888	5		356	10	387.20	270
10610E	388.623	6		669	9	388.35	81
10620A	365.089	3		147	2	-	
10620B	365.297	5		413	10	365.35	39
10620C	366.407	3		75	3	366.35	131
10620D	366.682	5		234	12	-	
10620E	367.724	1	63		NC	367.85	22
10630A	348.129	2		47	NC	-	
10630B	348.391	3		88	11	-	
10630C	348.657	6		400	20	348.55	34
10630D	349.131	1	60		NC	-	
10630E	349.541	1	100		NC	349.50	6
10630F	349.997	6		450	13	349.80	31
10640A	327.641	3		103	1	-	
10640B	327.894	5		300	7	327.90	25
10640C	328.945	4		206	10	-	
10640D	329.121	5		372	14	329.05	82
10640E	329.383	2		34	NC	-	
10651A	312.143	2		109	NC	-	
10651B	312.324	3		209	3	-	
10651C	312.531	6		344	15	312.70	67
10651D	313.343	2		31	NC	313.60	31
10651E	313.862	5		278	11	-	
10661A	291.826	3		97	2	-	
10661B	292.074	4		334	2	292.15	31

FINAL MALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10661C	293.216	4		222	3	-	
10661D	293.351	4		203	10	293.30	13
10671A	241.379	2		103	NC	241.20	5
10671B	241.619	3		163	1	241.60	5
10671C	241.970	2		47	NC	241.85	34
10671D	243.392	5		456	5	243.15	48
10680A	218.086	3		131	7	-	
10680B	218.289	5		350	11	218.35	40
10680C	219.584	3		78	2	219.40	27
10680D	219.796	6		813	12	-	
10690A	198.569	2		56	NC	198.50	210
10690B	205.292	5		350	16	-	
10690C	205.477	5		488	14	205.45	6
10690D	207.142	5		272	16	-	
10702A	184.713	3		44	26	184.45	28
10702B	186.274	3		181	3	-	
10702C	186.554	2		59	NC	186.70	7
10702D	187.594	3		88	9	187.45	84
10710A	158.610	2		47	NC	158.50	228
10710B	164.103	3		56	22	164.10	90
10710C	165.283	3		116	7	-	
10710D	165.595	4		147	10	166.00	81
10710E	168.006	2		53	NC	168.30	54
10720A	145.104	3		88	7	145.25	16
10720B	147.365	5		369	12	147.30	6
10720C	148.470	5		400	10	148.10	145
10730A	127.041	2		66	NC	126.95	187
10730B	132.688	3		103	4	132.65	399
10730C	136.255	2		75	NC	136.15	44
10730D	136.471	2		91	NC	136.80	108
10730E	137.270	2		100	NC	137.20	11
10740A	113.084	3		78	63	-	
10740B	113.368	2		75	NC	113.50	18
10750A	96.881	2		66	NC	96.80	226
10750B	104.788	2		50	NC	104.80	7
10750C	106.466	3		109	7	106.55	81
10750D	106.710	3		94	8	-	

FINAL
ANALY

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FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10750E	4		184	17	-	
10760A	2		88	NC	83.25	12
10760B	4		325	4	-	
10760C	3		44	1	83.55	61
10760D	5		213	19	-	
10760E	3		78	16	84.55	12
10760F	2		53	NC	87.35	552
10760G	2		63	NC	92.30	202
10771A	2		75	NC	68.75	185
10771B	2		56	NC	69.80	15
10771C	2		59	NC	74.15	587
10771D	1	106		NC	75.25	21
10771E	2		41	NC	76.50	11
10771F	3		103	9	78.05	14
10771G	5		338	13	78.40	80
10771H	4		331	2	-	
10780A	2		72	NC	-	
10780B	5		344	10	53.05	84
10780C	2		75	NC	-	
10780D	3		125	6	57.00	461
10780E	2		47	NC	60.85	30
10780F	2		50	NC	61.75	208
10790A	2		30	NC	129.00	198
10790B	2		30	NC	130.25	12
10790C	5		201	45	134.05	938
10790D	3		103	3		
10790E	5		291	7	138.05	84
10800A	2		30	NC	115.95	102
10800B	2		30	NC	118.45	13
10800C	5		139	20	120.05	665
10800D	2		30	NC	125.30	141
10810A	2		40	NC	102.45	150
10820A	2		30	NC	-	
10830A	3		48	1	-	
10830B	5		151	16	81.70	40
10830C	3		48	2	82.10	77
10870A	2		31	NC	55.45	91

FINAL ANALY	FID	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAG	VALUE
10890A	45.222	3		75	8	45.20	288
10903A	35.337	6		185	49	35.35	314
10903B	37.963	2		45	NC	-	
10903C	38.112	3		73	58	38.05	385
19030A	15.348	2		75	NC	-	
19030B	15.678	2		53	NC	15.65	71
19030C	16.305	4		156	13	16.00	12
19030D	16.643	3		122	1	-	
19030E	17.057	2		63	NC	17.00	5
19030F	17.580	2		75	NC	17.55	19
19030G	18.775	2		88	NC	18.95	10
19030H	19.366	2		88	NC	19.40	17
19030J	20.560	2		103	NC	20.35	18
19030K	20.966	3		97	4	-	
19030L	22.816	3		84	9	-	
19030M	23.087	2		47	NC	23.00	11
19030N	23.640	2		44	NC	23.60	8
10720B	147.20	2		50	NC	-	
10720D	148.27	2		30	NC	-	



41016SW0012 2.4261 OSWAY

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1983 08 31

2.4261

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Airborne Geophysical (Electromagnetic & Magnetometer)
Survey on Mining Claims P 576319 et al in the Townships
of Esther, Osway, Mallard, and Benton.

The Airborne Geophysical (Electromagnetic & Magnetometer) Survey
assessment work credits as listed with my Notice of Intent dated
August 9, 1983 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so
indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

D. Kinvig:sc

cc: Canadian Gold & Metals Inc
Timmins, Ontario
Attn: Mrs. Mary Charbonneau.

cc: Questor Services Limited
Mississauga, Ontario

cc: Resident Geologist
Timmins, Ontario

Aug 30, 1983

Your file:

1983 08 09

Our file: 2.4261

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

D. Kinvig:sc

cc: Canadian Gold & Metals Inc
3 Pine Street South
Suite 204
Timmins, Ont Attn: Mrs. Mary Charbonneau.

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Questor Services Limited
6380 Viscount Road
Mississauga, Ont
L4V 1H3

Encls:



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1983 08 09

2.4261

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Recorded Holder
TROUTILY RESOURCES INC

Township or Area
MALLARD & MARION

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 40 _____ days Magnetometer _____ 20 _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input checked="" type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 605059 to 64 incl 605067 to 71 incl 605073 605079 to 86 incl

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

P 605065-66
605072



Mallard & Marion Twp.
Report of Work
 (Geophysical, Geological,
 Geochemical and Expenditures) *#389*

Instructions: - Please type or print.
 - If number of mining claims traversed exceeds space on this form, attach a list.
 Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
 - Do not use shaded areas below.

The Mining Act

Type of Survey(s) AIRBORNE ELECTROMAGNETIC SURVEY		Township or Area Mallard & Marion	
Claim Holder(s) Troutly Resources Inc.		Prospector's Licence No. T-1151	
Survey Company Questor Surveys Limited		Survey Dates (linecutting to office) 27 04 81 Day Mo. Yr.	Total Miles of line Cut 30 04 81 Day Mo. Yr.
Name and Address of Author (of Geo-Technical report) D. Watson, 6380 Viscount Rd., Mississauga, Ontario			

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.	Geophysical	Days per Claim
	Electromagnetic (E.M.)	40
	Magnetometer (Mag.)	20
	Radiometric	

Expenditures (excludes non-mining divisions)

Type of Work Performed	RECEIVED
Performed on Claim(s)	
SEP 16 1981	
AM 7 8 9 10 11 12 3 4 5 6 PM	

Calculation of Expenditure Days Credits

Total Expenditures	Total Days Credits
\$	RECORDED
Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.	SEP 24 1981
Report Completed	Receipt No.
Date of Report	Recorded Holder or Agent (Signature)
Sept 16 1981	<i>Bob Troutly</i>

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P-	605059				
	605060				
	605061				
	605062				
	605063				
	605064				
	605065 ←				
	605066 ←				
	605067				
	605068				
	605069				
	605070				
	605071				
	605072 ←				
	605073				
	605079				
	605080				
	605081				
	605082				
	605083				
	605084				
	605085				
	605086				

See Revised work statement

RECEIVED
 OCT 2 2 1981
 MINING LANDS SECTION

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1380	Sept 30/81	<i>Therese...</i>
Date Approved as Recorded	Regional/Branch Director	
<i>Aug 5/83</i>	<i>[Signature]</i>	

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
John Boissoneault
 3 Pine Street, S., Suite 204, Timmins

Date Certified
 Sept. 14/81

Certified by (Signature)
J. Boissoneault

Continued...

Canadian Gold & Metals Inc.
Mallard Township & Benton Township

P-596707	P - 595771	P-596604.
596708	595772	596605
596709	595773	596606
596710	595774	596607
596711	595775	596614
596716	595776	596615
596717	595777	596616
596718	595778	596617
596719	595779	
596720	595780	596624
596721	595781	596625
596726	595782	
596727	595783	596703
596728	595784	596704
596729		596705
596730		596706
596731		
596801		596712
596802		596713
596803		596714
596804		596715
596805		
596806		596722
596807		596723
596808		596724
596809		596725
596810		
596811		596732
596812		596733
596813		
596814		
611332		
611333		
611334		

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act

24261

1-530551

Type of Survey(s) Airborne Electromagnetic Survey	Township or Area Esther, Osway, Mallard
Claim Holder(s) Canadian Gold & Metals Inc.	Prospector's Licence No. T-932
Survey Company Questor Surveys Limited	Survey Dates (line cutting to office) 27 04 81 30 04 81
Name and Address of Author (of Geo. Technical report) D. Watson, 6380 Viscount Rd., Mississauga, Ontario	Total Miles of line Cut

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	576319		P	574075	
	576320			574076	
	576321			574077	
	576322			574078	
	576323			574079	
	576324			574080	
	576325			574081	
	576326			574082	
	576327			574083	
	576223			574084	
	576224			574085	
	576225			574086	
	576226			574087	
	576227			574088	
	576230			574089	
	576231			574090	
	576232			574091	
	576233			576349	
	576234			576350	
	576142			576351	
	576143			530551	
	576144			530552	
	576145			530553	
	576146			530554	
	576147			530555 (cont'd)	

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Instructions	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	<i>Geophysical</i>	
	Electromagnetic (E.M.)	40
	Magnetometer (Mag)	20
	Radiometric	

Expenditures (excludes power stripping)	
Type of Work Performed	PERFORMED ON CLAIM(S)
Performed on Claim(s)	RECEIVED
Calculation of Expenditures	SEP 16 1981
Total Expenditures	AM 9 10 11 12 1 2 3 4 5 PM
Days Credits	Days Credits
Instructions	RECORDED
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits to be claimed in columns at right.	
Report Completed	Receipt No.
Date of Report	Received by (Signature)

For Office Use Only		Total number of mining claims covered by this report of work.
Total Days Cr. Recorded	Date Recorded	Mining Recorder
3540	Oct 7/81	
	Date Approved as Recorded	Regional/Branch Director
	Aug 5/83	

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	Date Certified	Certified by (Signature)
John Boissoneault	Sept. 16/81	C. J. Boissoneault
3 Pine Street S., Suite 204, Timmins		

(cont'd)

Esther, Osway, Mallard

P-530556

530557

530558

530559

530560

530807

530808

584513

584514



Ministry of
Natural
Resources

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

398

The Mining Act

2.4261

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

P-576228

Type of Survey(s) Airborne Electromagnetic Survey		Township or Area Osway, Esther	
Claim Holder(s) Canadian Gold & Metals		Prospector's Licence No. T-932	
Survey Company Questor Surveys Limited	Survey Dates (linecutting to office) Day Mo. Yr. Day Mo. Yr. 27 04 81 30 04 81		Total Miles of line Cut
Name and Address of Author (of Geo-Technical report) D. Watson, 6380 Viscount Rd., Mississauga, Ontario			

Instructions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim
	- Electromagnetic - Magnetometer - Radiometric - Other	
	Geological	
	Geochemical	

Instructions Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic - Magnetometer - Radiometric - Other	
	Geological	
	Geochemical	

Note: Special provisions credits do not apply to Airborne Surveys.	<i>Geophysical</i>	Days per Claim
	<i>Electromagnetic F.M.</i>	40
	<i>Magnetometer Mag.</i>	20
	Radiometric	

Expenditures (excludes power stripping)	
Type of Work Performed	FORCUPINE MINING DIVISION
Performed on Claim(s)	RECEIVED
	SEP 16 1981
Calculation of Expenditures	AM 7 8 9 10 11 12 1 2 3 4 5 6 PM
Total Expenditures	\$ 15 Days Credits
	RECORDED

Instructions Total Days Credits may be apportioned at the claim holder's choice. Enter number of days of each claim selected in columns at right.	SEP 30 1981
--	--------------------

Report Completed	Receipt No.
Date of Report <i>Sept. 16/81</i>	Recorded Holder or Agent (Signature) <i>Doc Bouchard</i>

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	576228		P		
	576229				
	576385				
	576386				
	576387				
	576388				
	576389				
	584315				
	584316				
	584317				
	584318				
	584319				
	584320				
	584321				

RECEIVED

OCT - 8 1981

MINING LANDS SECTION

For Office Use Only		Total number of mining claims covered by this report of work.	14
Total Days Cr. Recorded	Date Recorded	Mining Recorder	
840	<i>Sept 30/81</i>	<i>[Signature]</i>	
	Date Approved as Recorded	Branch Director	
	<i>Aug 5/83</i>	<i>[Signature]</i>	

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 John Boissoneault		
3 Pine Street S., Suite 204, Timmins	Date Certified Sept. 14/81	Certified by (Signature) <i>[Signature]</i>

Benton map # 425

Instructions: - Please type or print
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act **2.4261**

P-596423

Type of Survey(s) Airborne Electromagnetic Survey		Township or Area BENTON
Claim Holder(s) Canadian Gold & Metals Inc.		Prospector's Licence No. T-932
Survey Company Questor Surveys Limited	Survey Dates (linecutting to office) 27 Day 04 81 30 Day 04 81	Total Miles of line Cut
Name and Address of Author (of Geo-Technical report) Mr. D. Watson, 6380 Viscount Rd., Mississauga, Ontario		

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	596423		P	596448	
	596424			596449	
	596425			596450	
	596426			596451	
	596427			596452	
	596428			596453	
	596429			596454	
	596430			596455	
	596431			596456	
	596432			596457	
	596433			596458	
	596434			596459	
	596435			596460	
	596436			596461	
	596437			596462	
	596438			596463	
	596439			596464	
	596440			596465	
	596441			596466	
	596442			596467	
	596443			596468	
	596444			596469	
	596445			596470	
	596446			596471	
	596447			596472 (cont'd)	

RECEIVED
OCT 2 2 1981
MINING LANDS SECTION

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	
<i>Airborne</i> Electromagnetic <i>EM</i>	40
Magnetometer <i>Mag</i>	20
Radiometric	

Expenditures (exclude power stripping)

Type of Work Performed: **ORCUPINE MINING DIVISION**

Performed on Claim(s): **RECEIVED**

Receipt No.: **SEP 26 1981**

Calculation of Expenditures and Days Credits

Total Expenditures: \$ + 15 =

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Report Completed

Date of Report: **Sept. 26/81**

Recorded Holder or Agent (Signature): *[Signature]*

For Office Use Only

Total Days Cr. Recorded: **24,960**

Date Recorded: **Oct 14/81**

Date Approved as Recorded: **Aug 5/83**

Mining Recorder: *[Signature]*

Regional Branch Director: *[Signature]*

Total number of mining claims covered by this report of work: **416**

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: **John Boissonneault**
3 Pine Street S., Suite 204, Timmins

Date Certified: **Sept. 26/81**

Certified by (Signature): *[Signature]*

Canadian Gold & Metals (Benton Township)

P - 596529	P - 596564	P - 596598	P - 596734	P - 596769
596530	596565	596599	596735	596770
596531	596565	596600	596736	596771
596532	596566		596737	596772
596533	596567		596738	596773
596534	596568		596739	596774
596535	596569		596740	596775
596536	596570		596741	596776
596537	596571		596742	596777
596538	596572		596743	596778
596539	596573		596744	596779
596540	596574		596745	596780
596541	596575		596746	596781
596542	596576		596747	596782
596543	596577		596748	596783
596544	596578		596749	596784
596545	596579		596750	596785
596546	596580		596751	596786
596547	596581		596752	596787
596548	596582		596753	596788
596549	596583		596754	596789
596550	596584		596755	596790
596551	596585		596756	596791
596552	596586		596757	596792
596553	596587		596758	596793
596554	596588		596759	596794
596555	596589		596760	596795
596556	596590		596761	596796
596557	596591		596762	596797
596558	596592		596763	596798
596559	596593		596764	596799
596560	596594		596765	596800
596561	596595		596766	
596562	596596		596767	596815
596563	596597		596768	596816

cont'd. ...

P - 596817	P - 596857	P - 596896	P - 596935	P - 596974	P - 597257
596818	596858	596897	596936	596975	597258
596819	596859	596898	596937	596975 596976	597259
596820	596860	596899	596938	596977	597260
596821	596861	596900	596939	596978	597261
596822	596862	596901	596940	596979	597262
596823	596863	596902	596941	596980	597263
596824	596864	596903	596942	596981	597264
596825	596865	596904	596943	596982	597265
596826	596866	596905	596944	596983	
596827	596867	596906	596945	596984	609853
596828	596868	596907	596946	596985	609854
596829 596830	596869	596908	596947	596986	609855
596831	596870	596909	596948	596987	609856
596832	596871	596910	596949	596988	609857
596833	596872	596911	596950	596989	609858
596834	596873	596912	596951	596990	609859
596835	596874	596913	596952	596991	609860
596836	596875	596914	596953	596992	609861
596837	596876	596915	596954	596993	609862
596838	596877	596916	596955	596994	597236
596839	596878	596917	596956	596995	597236
596840	596879	596918	596957	596996	597237
596841	596880	596919	596958	596997	597238
596842	596881	596920	596959	596998	597237
596843	596882	596921	596960	596999	597240
596844	596883	596922	596961	597000	597241
596845	596884	596923	596962		597242
596846	596885	596924	596963	597246	597243
596847	596886	596925	596964	597247	597244
596848	596887	596926	596965	597248	597245
596849	596888	596927	596966	597249	
596850	596889	596928	596967	597250	
596851	596890	596929	596968	597251	
596852	596891	596930	596969	597252	
596853	596892	596931	596970	597253	
596854	596893	596932	596971	597254	
596855	596894	596933	596972	597255	
596856	596895	596934	596973	597256	

Ronald Ross Blusson/Mallard Township

P - 576158	P - 576205
576159	576206
576160	576207
576161	576208
576162	576209
576163	576210
576164	576211
576165	576212
576166	576213
576167	576214
576168	576215
576169	576216
576170	576217
576171	576218
576172	576219
576173	576220
576174	576221
576175	576222
576176	
576177	576139
576178	576140
576179	576141
576180	
576181	
576182	
576183	
576184	
576185	
576186	
576187	
576188	
576189	
576190	

Rec'd add these three
claims



From

CANADIAN GOLD & METALS INC.
EXPLORATION OFFICE:
3 Pine Street South, Suite 204,
Timmins, Ontario P4N 2T9
Phone: (705) 267-7105

*Certificate
to be applied
may also involve
File 2.3559*

January 26th, 1981

RECEIVED

FEB 2 1982

Mr. Fred Matthews,
Mining Lands Section,
Room 6450,
Whitney Block, Queen's Park,
Toronto, Ontario
M7A 1W3

Dear Sir:

F
townships w
under surve

Gc
Da

Qu
Da

Qu

Da July, 1981

*G. Seleveri told in person
on Jan 28/83 that maps
messing - He will provide
new ones by week of Feb 7th.
- if not, call him & remind
him!*

7.

Your reference files for some of these claims are:

2.4261

2.3559

Please advise if the claims involved qualify for
an airborne certificate. Thank you.

Yours truly,

CANADIAN GOLD & METALS INC.

M. Charbonneau

Mary Charbonneau

L.D.

/mc
Attach.

c.c. S. Guest

BENTON TOWNSHIPRECORDING DATE

P-633915 - 633920

Dec. 30/81

P-633925 - 633938

Dec. 30/81

ESTHER TOWNSHIP

P-633939 - 633956

Dec. 30/81

GARNET TOWNSHIP

P-633921 - 633924

Dec. 30/81

GROVES TOWNSHIP

P-624701 - 624702

Sept. 17/81

P-624951 - 624980

Sept. 17/81

HUFFMAN TOWNSHIP

P-624801 - 624828

Sept. 17/81

MALLARD TOWNSHIP

P-624518 - 624537

Oct. 19/81

P-624670 - 624676

Oct. 19/81

P-624839 - 624850

Oct. 19/81

P-628384 - 628411

Oct. 19/81

P-628711 - 628750

Oct. 19/81

P-624829 - 624838

Nov. 6/81

P-628412 - 628433

Nov. 6/81

P-633024 - 633039

Nov. 6/81

P-633078 - 633105

Nov. 6/81

P-633108 - 633129

Nov. 6/81

OSWAY TOWNSHIP

RECORDED DATE

P-591001 - 591020

Aug. 27/81

P-591058

Aug. 27/81

P-591372 - 591374

Aug. 26/81

P-619195 - 619200

Aug. 27/81

P-619481 - 619490

Aug. 26/81

P-622501 - 622514

Aug. 27/81

P-622692 - 622711

Aug. 27/81

P-624310 - 624334

Aug. 27/81

P-633957 - 633962

Dec. 30/81

ST. LOUIS TOWNSHIP

P-622380 - 622394

Sept. 17/81

P-624643 - 624669

Sept. 17/81

P-624704 - 624748

Sept. 17/81

YEO TOWNSHIP

P-624179 - 624180

Aug. 28/81

1982 04 28

2.4261

Mrs. Mary Charbonneau
c/o Canadian Gold & Metals Inc.
3 Pine Street South
Suite 204
Timmins, Ontario
P4N 2T9

Dear Madam:

Re: Airborne Geophysical (Electromagnetic and Magnetometer)
Survey submitted on Mining Claims P.576319 et al, in
the Townships of Esther, Osway, Mallard and Benton

As per our telephone conversation this morning, I am returning one set of maps for the above-mentioned survey. In order to complete your submission, the following information is needed.

- 1) The north direction indicated on all maps.
- 2) The outside boundaries of the claim group shown with the claim numbers in the corner claims.
- 3) Maps returned to this office in duplicate.
- 4) The numbers of miles flown over the claims only.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

A. Barr/amc

cc: Mining Recorder
Timmins, Ontario

Encl.



Mining Lands Comments

- need north directions L.D.

*- need outside boundary lines of claim groups.
- need # of miles flown over claims only.
- anything else*

To: Geophysics

Mr. Bauler.

Comments

airborne G.M. & MAG maps missing

Approved

Wish to see again with corrections

Date

Feb 22/82

Signature

Ryan Bauler

To: Geology - Expenditures

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

L.D.

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

1981 11 10

2.4261

Mining Recorder's Office
Ministry of Natural Resources
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir;

We have reports and maps for an Airborne Geophysical (Electromagnetic and Magnetometer) survey submitted on mining claims P 576319 et al in the Townships of Esther, Osway, Mallard, & Benton.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone 416/965-1380

J. Skura

cc: Canadian Gold & Metals Inc.,
Timmins, Ontario



CANADIAN GOLD & METALS INC.
EXPLORATION OFFICE:
3 Pine Street South, Suite 204,
Timmins, Ontario P4N 2T9
Phone: (705) 267-7105

November 4, 1981

Mr. Fred Matthews
Mining Lands Section
Room 6450
Whitney Block, Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

RE: GEOPHYSICAL REPORTS

Please find enclosed duplicate copies of the
Airborne Electromagnetic Survey (Benton, Osway, Mallard
4X4 Syndicate Resources Inc.).

Also, Mr. David Watson informed me that his resume
showing his qualifications is already on file in your
office.

Thank you.

Yours very truly,

Cec Boucher

Cec Boucher
Clerk

/cab

RECEIVED

NOV 10 1981

MINING LANDS SECTION

100-200

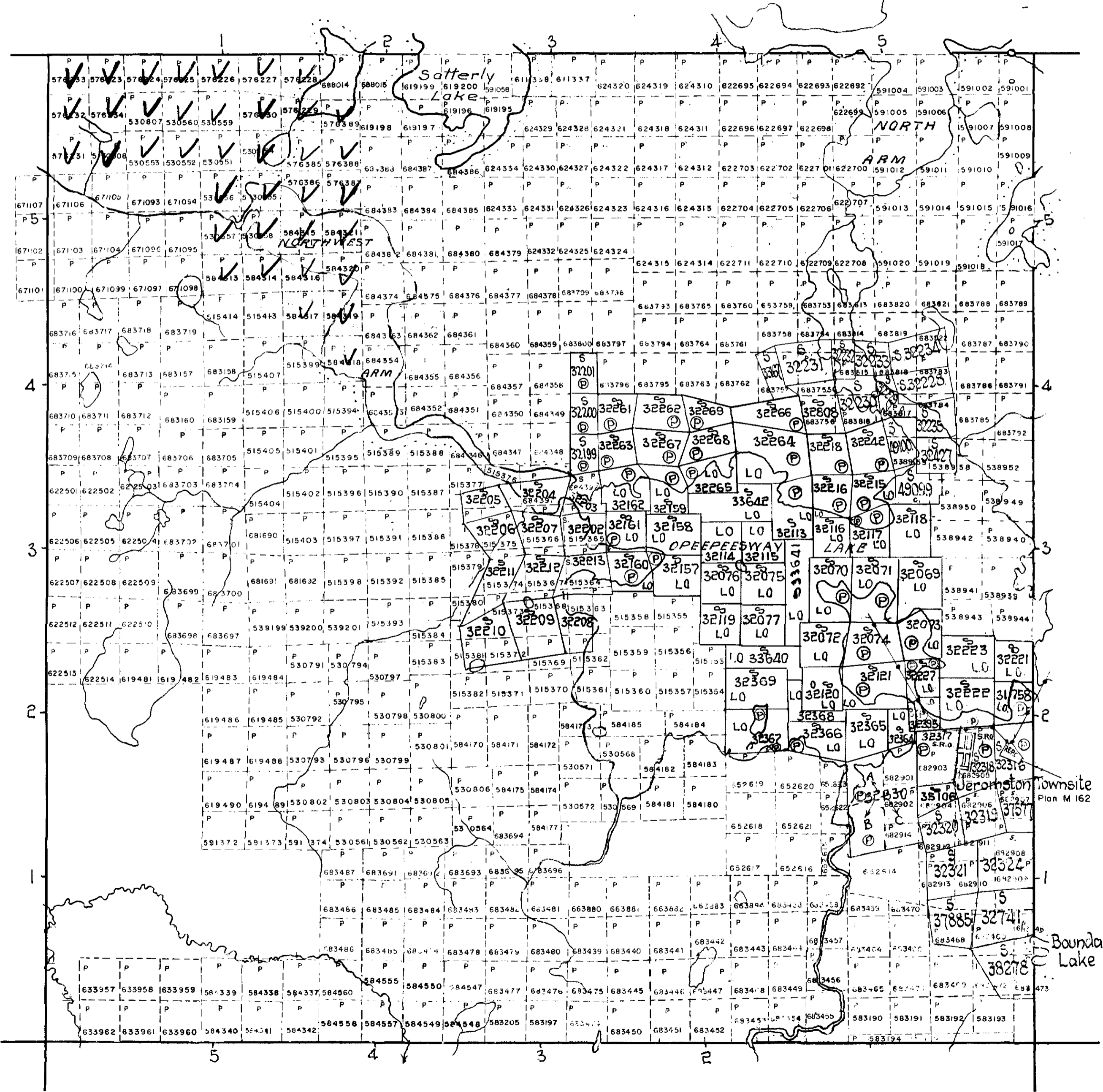
OSWAY

PORCUPINE MINING DIVISION

Scale 40 Chains = 1 inch

MALLARD

DATE OF ISSUE
JUL - 8 1983
Ministry of Natural Resources
TORONTO



ESTHER

HUFFMAN

400' surface rights reservation around all lakes & rivers

FINGAL



— PLAN OF —

ESTHER TWP.

PORCUPINE

MINING DIVISION.

DISTRICT OF SUDBURY.

DATE OF ISSUE

JUL - 8 1908

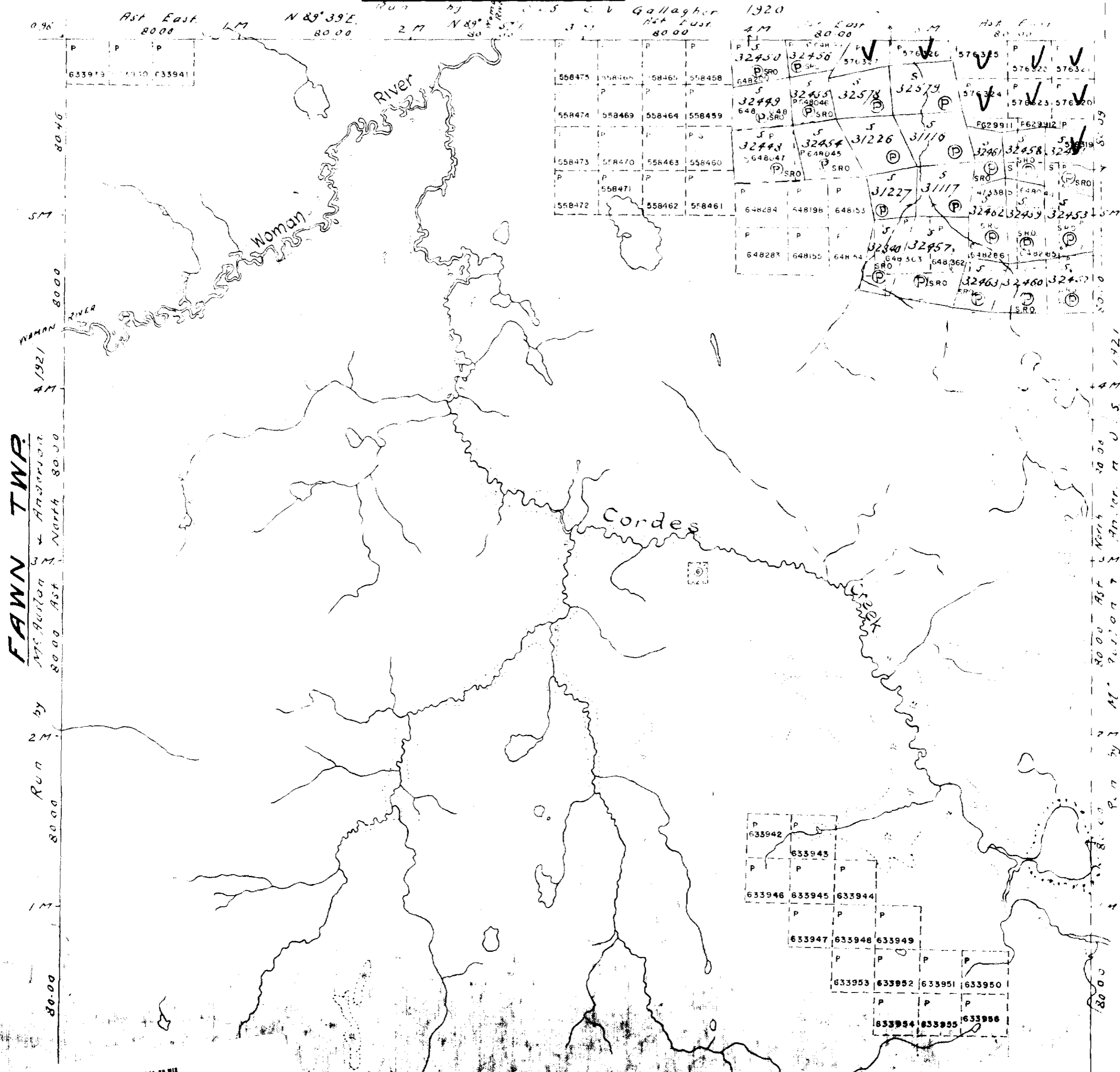
Ministry of Natural Resources
TORONTO

NOTE

400 Surface Rights Reservation — Scale: 40 chains to an inch. —
around all Lakes and Rivers.

PERMIT

BENTON TWP



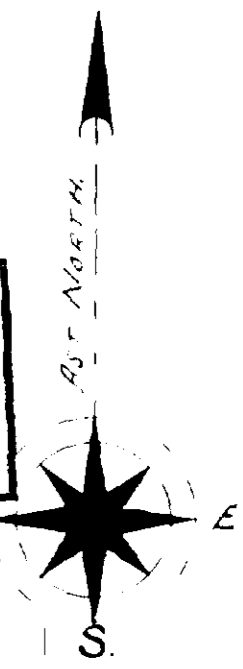
FAWN TWP.

OSWAY TWP.

EDITH TWP



210
 Run by O.L.S. M. Austin & Anderson 1921
 Run by M. Austin & Anderson 1921



DISPOSITION OF CROWN LANDS

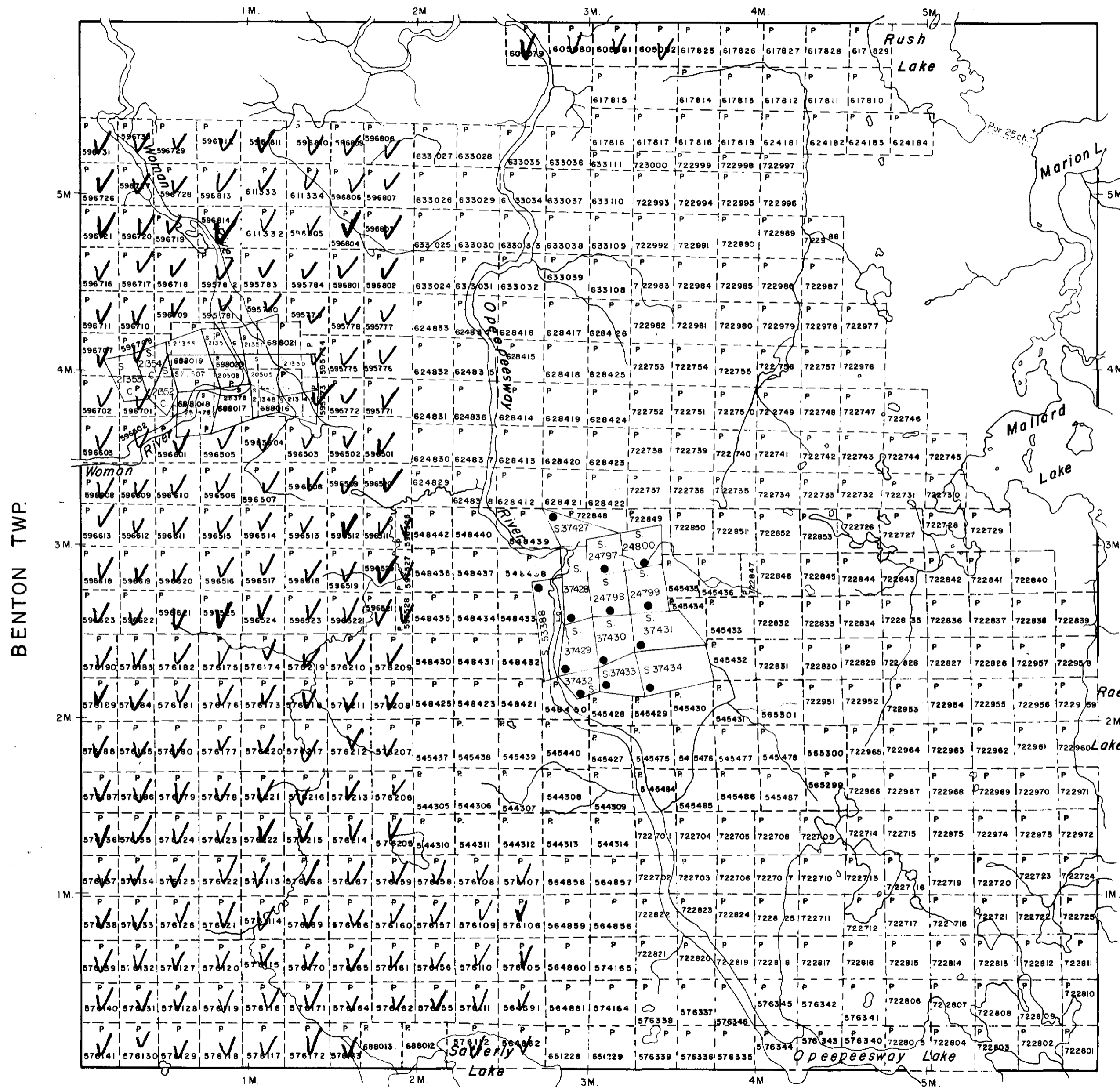
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	□
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕

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.

NOTES

400' Surface Rights Reservation around all lakes and rivers.

MARION TWP.



BENTON TWP.

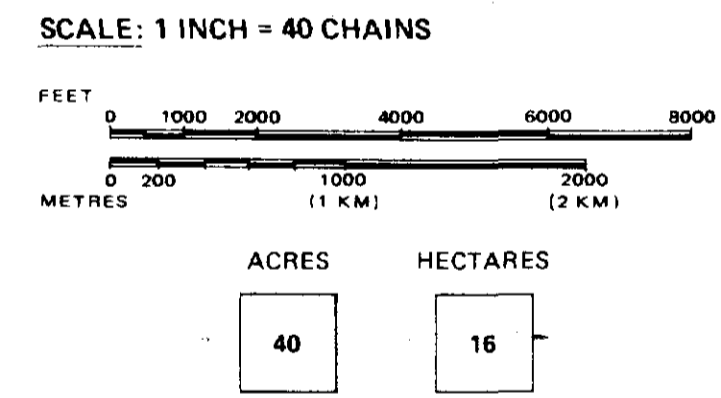
ERIC TWP.

OSWAY TWP.

LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES:	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES:	
LOT LINES	
PARCEL BOUNDARY	
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	

DATE OF ISSUE
JUL - 8 1988
Ministry of Natural Resources
TORONTO



TOWNSHIP OF
MALLARD
DISTRICT OF
SUDBURY
MINING DIVISION
PORCUPINE

Ministry of Natural Resources
Surveys and Mapping Branch

Date 13/2/1980
National Topographic Series
Plan No.
M.849

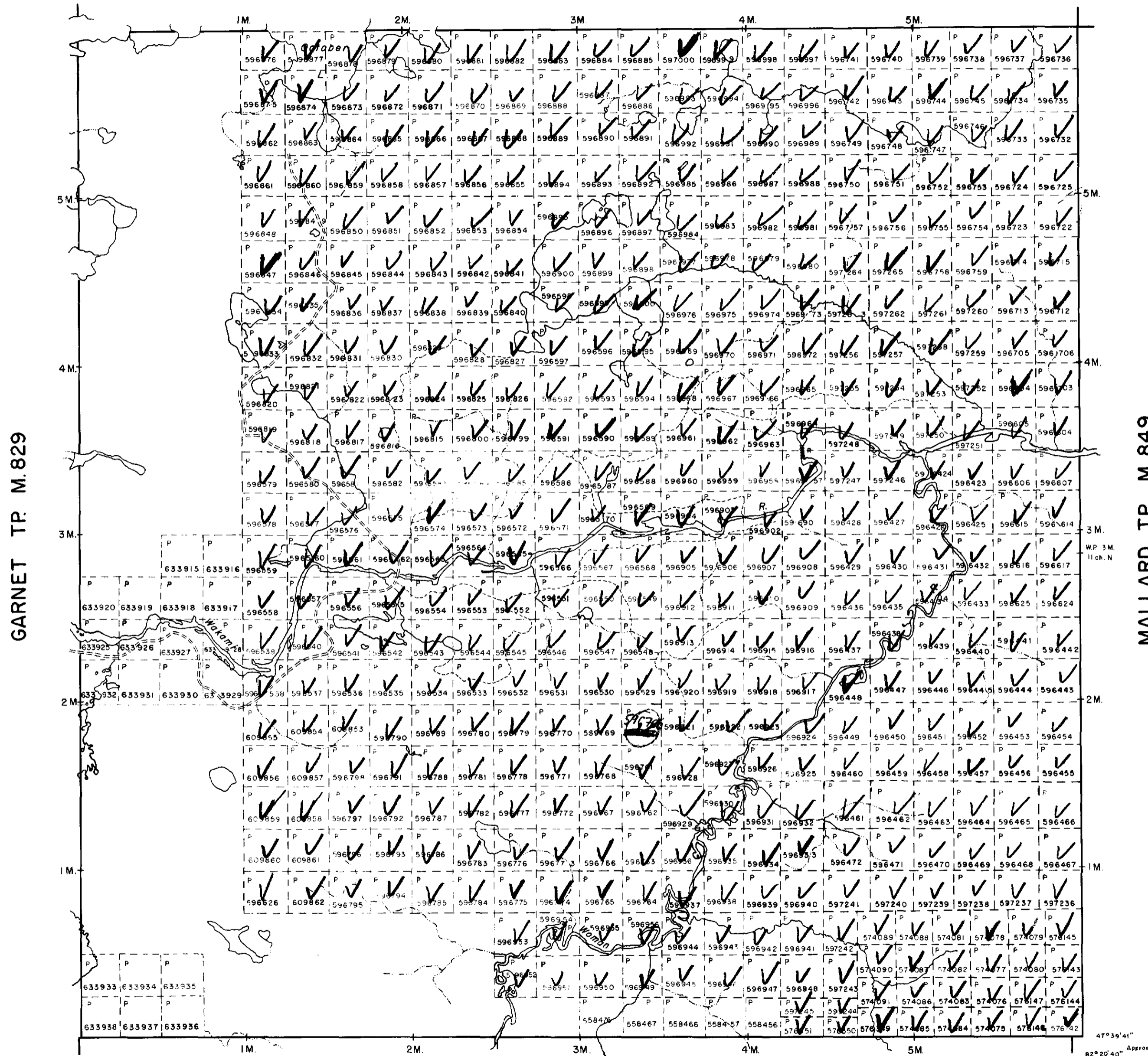


NOTES

400' surface rights reservation along the shores of all lakes and rivers.

DATE OF ISSUE
JUL - 8 1983
 Ministry of Natural Resources
 TORONTO

HEENAN TP. M. 925



GARNET TP. M. 829

MALLARD TP. M. 849

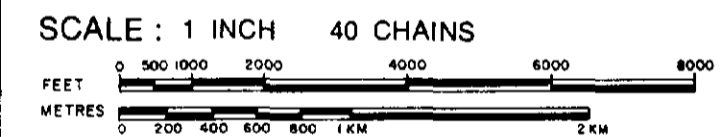
ESTHER TP. M. 793

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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	
CROWN LAND SALE	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

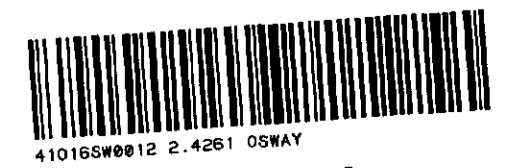


ACRES	HECTARES
40	16

TOWNSHIP
BENTON
 DISTRICT
 SUDBURY
 MINING DIVISION
 PORCUPINE

Ministry of Natural Resources
 Ontario Surveys and Mapping Branch

Date April 27th, 1973 Plan No.
 Whitney Block Queen's Park, Toronto **M. 659**



DALE TWP.

THE TOWNSHIP OF
OF
MARION

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- MINES Ⓜ
- CANCELLED Ⓞ
- PATENTED S.R.O. Ⓞ

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

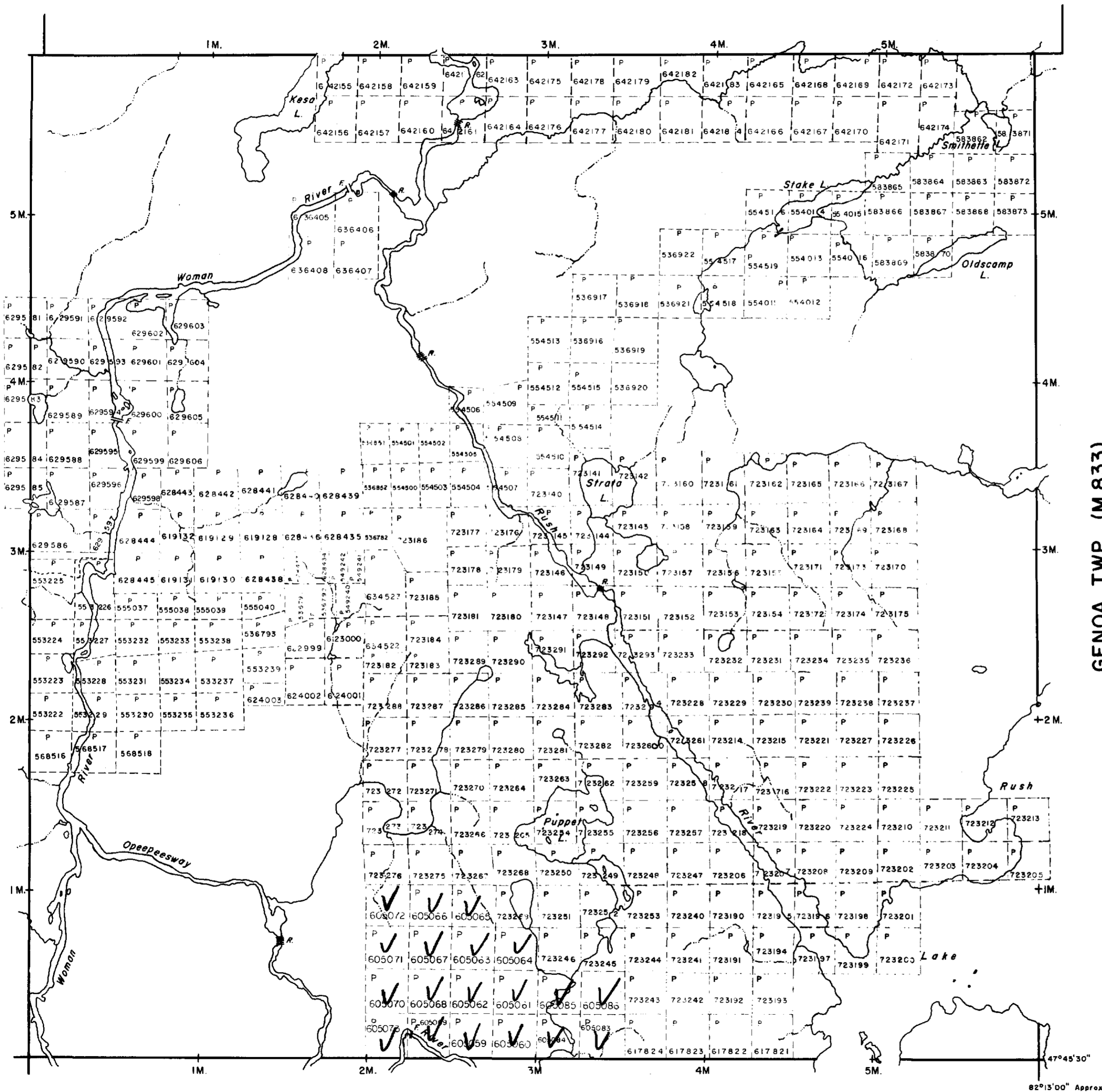
DATE OF ISSUE
JUL - 8 1983
 Ministry of Natural Resources
 TORONTO

PLAN NO. **M. 853**

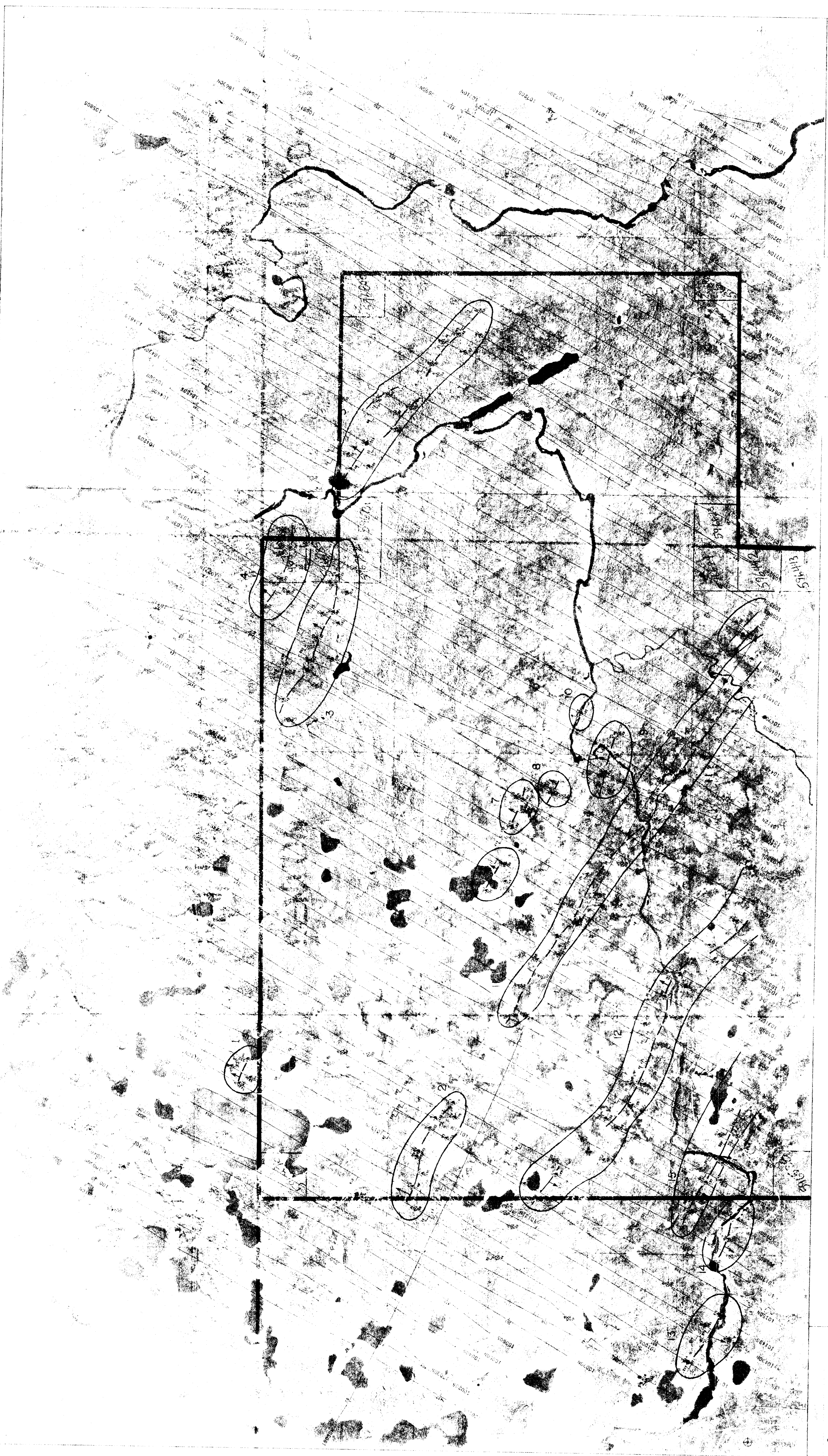
ONTARIO
MINISTRY OF NATURAL RESOURCES
 SURVEYS AND MAPPING BRANCH

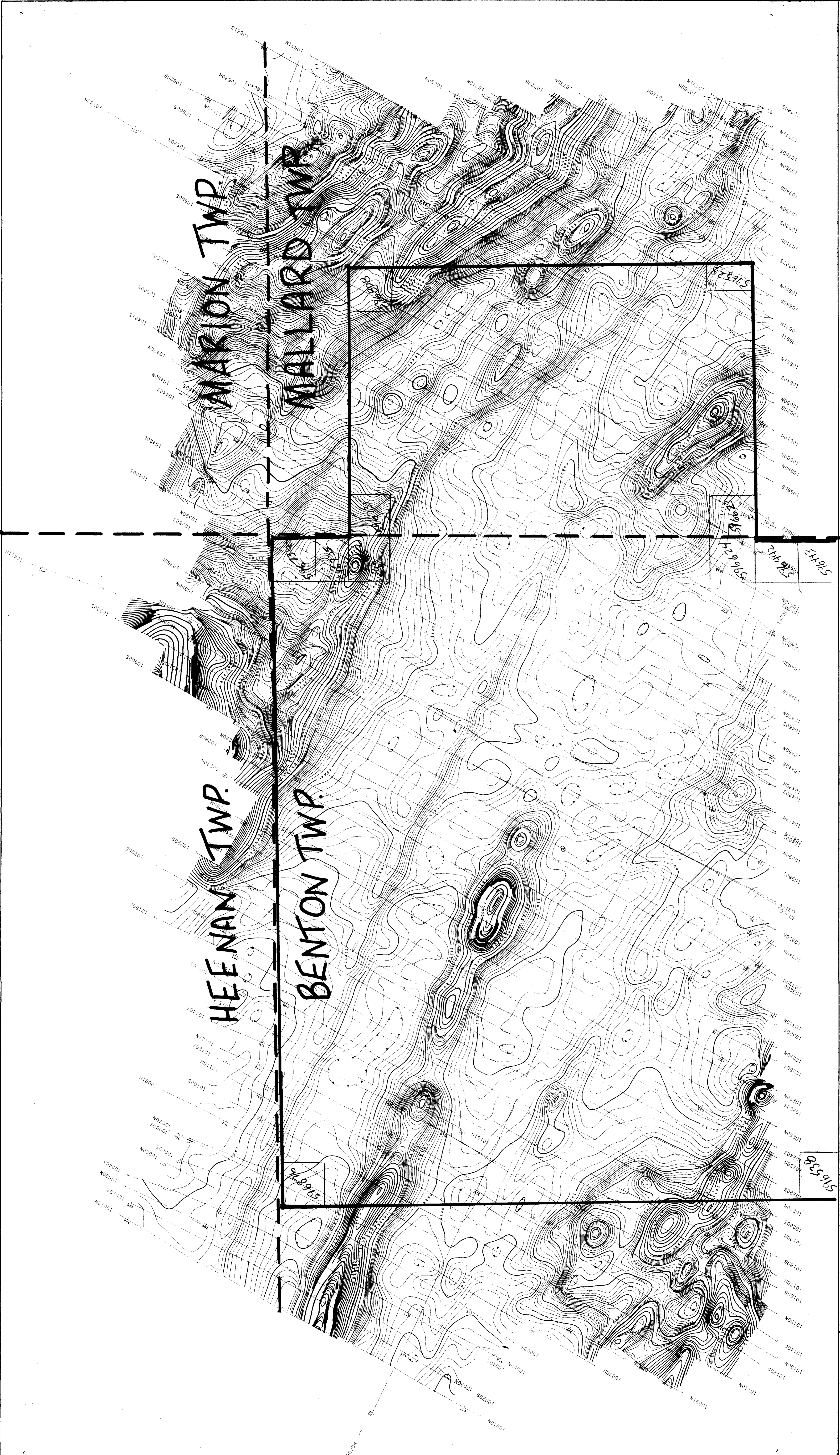
HEENAN TWP. (M.925)

GENOA TWP. (M.833)



MALLARD TWP. (M.849)





QUESTOR SURVEYS LIMITED
 Alberta-Mt. Viking Survey

BENTON & ESTHER TWP'S AREA
 ONTARIO

Map 1 of 3
 Scale = 1" = 320'
 1:50,000 MAGNETIC INTERVAL
 (TOTAL FIELD)

10 GAMMA CORRECTION LINE
 50 GAMMA CORRECTION LINE
 500 GAMMA CORRECTION LINE

MAGNETIC DEPRESSION
 FLIGHT ALTITUDE 400 ABOVE TERRAIN

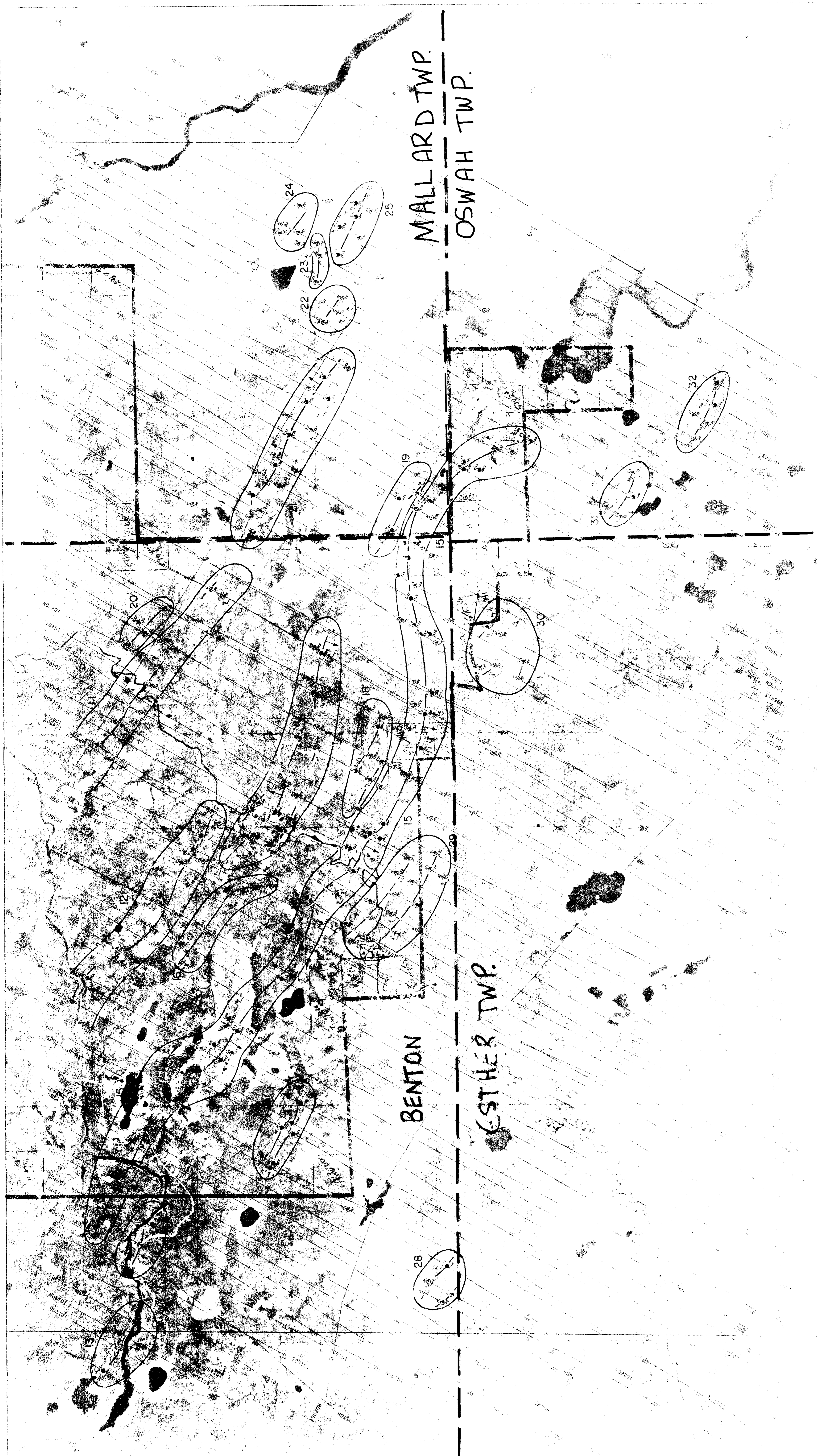
QUESTOR SURVEYS LIMITED
 BENTON & ESTHER TWP'S AREA
 ONTARIO

Map No. 23006
 Date: 1981
 Project: Mt. Viking Survey
 P.M. B.D.
 R.M.
 August, 1981
 DW
 Map No. 23006
 Map No. 1 of 3

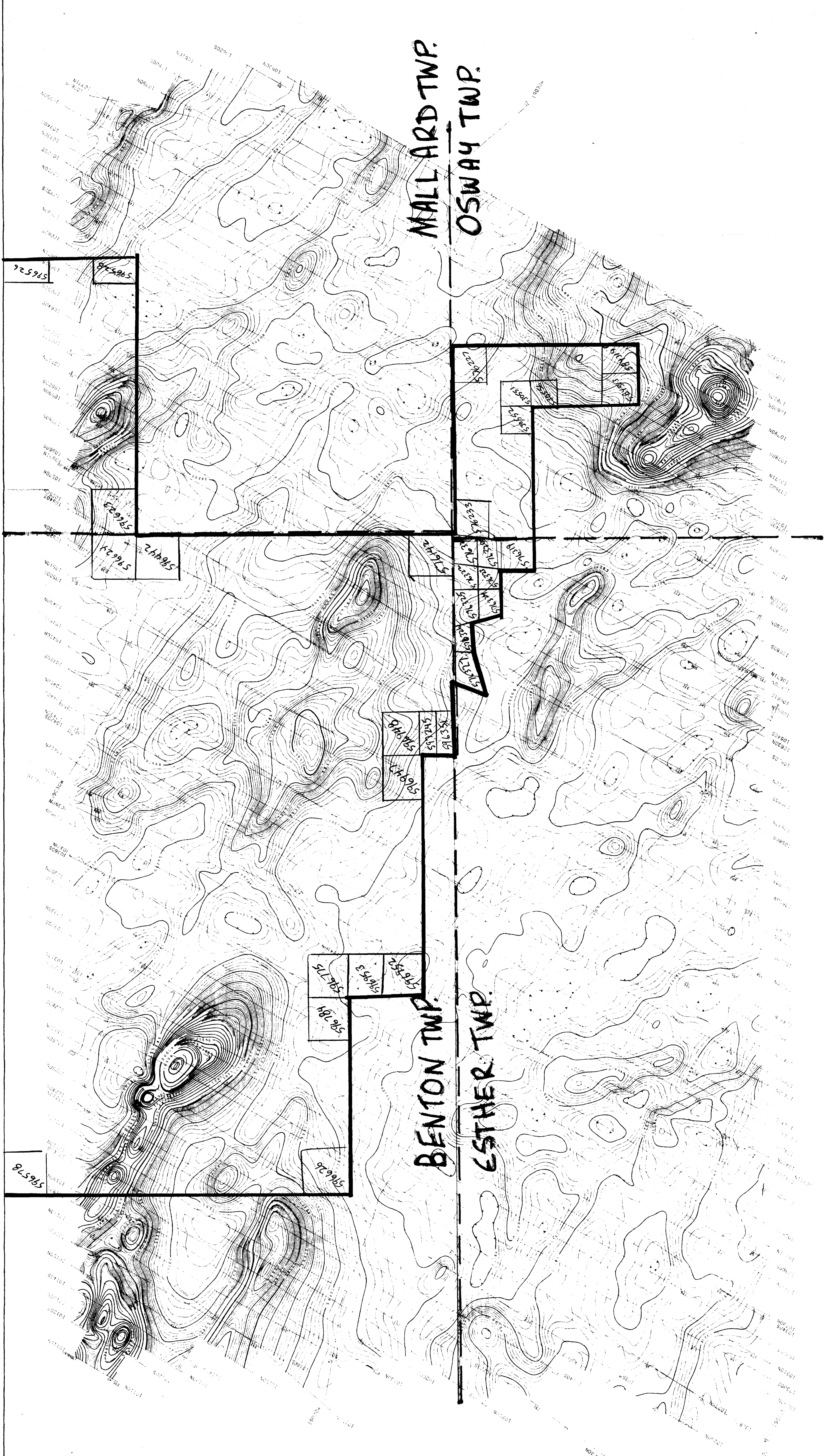
59638
 59638
 59638
 59638

MALLARD TWP.
OSWAH TWP.

BENTON
ESTHER TWP.



ESTHER TWP. 1850

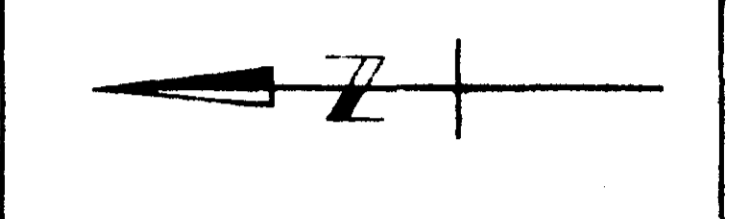
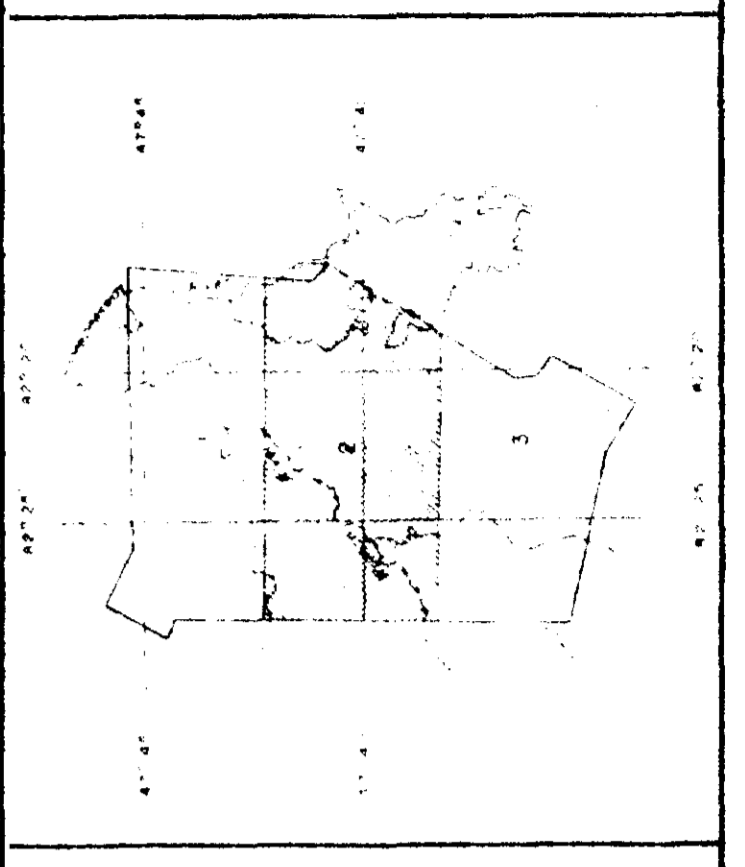


MALLARD TWP.
OSWAY TWP.

BENTON TWP.
ESTHER TWP.

Map No. 2 of 3
Date of Issue April, 1981
Flight Date August, 1980
D.M.B.D.
P.M.
August, 1981
T.W.
Map No. 2 of 3

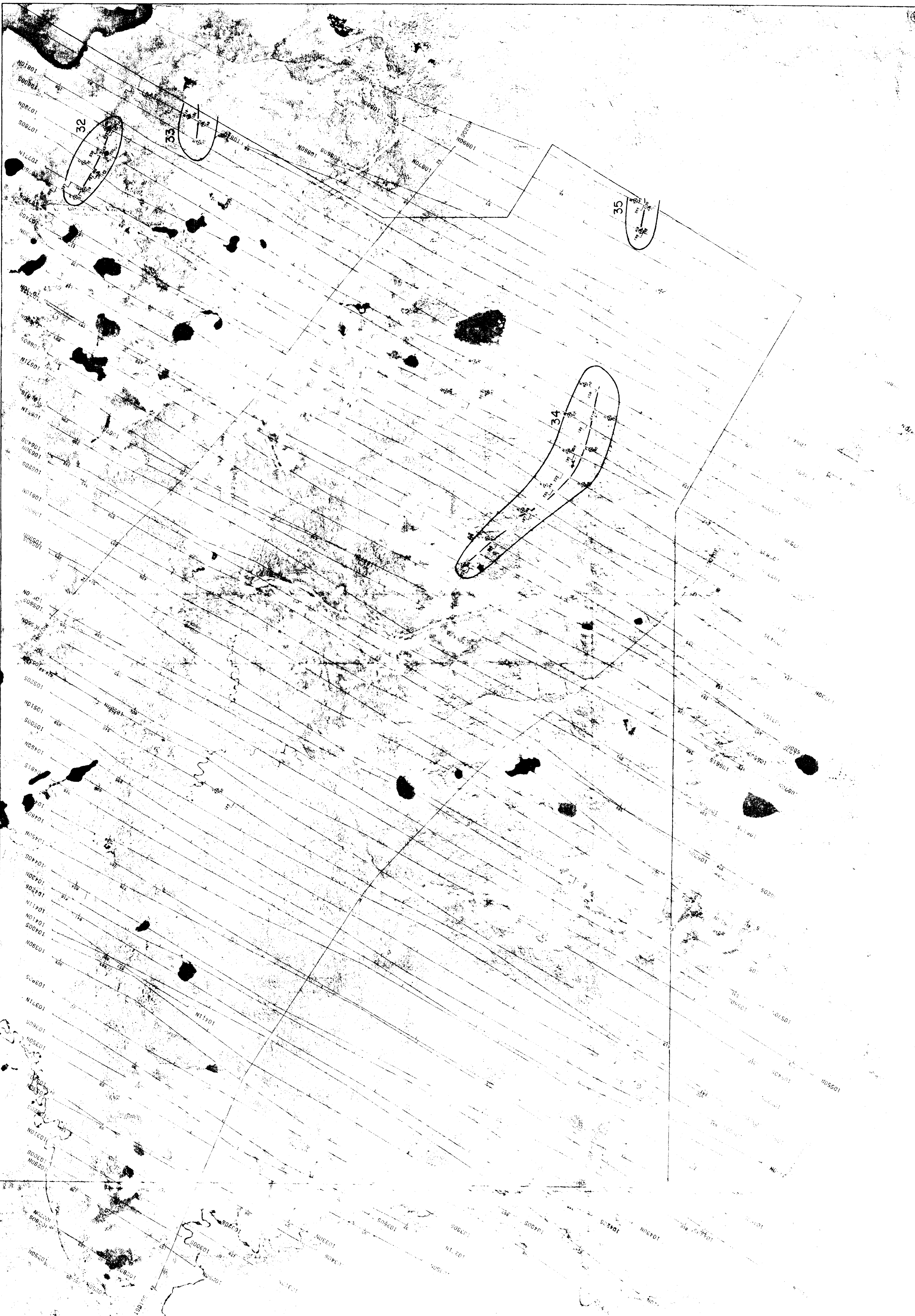
QUESTOR SURVEYS LIMITED
A Division of Village Survey
BENTON & ESTHER TOWNSHIP AREA
ONTARIO
Scale 1:125,000



BENTON & ESTHER TOWNSHIP AREA
ONTARIO
Map No. 2 of 3
Scale 1:125,000
ISOMAGNETIC INTERVAL
(TOTAL FIELD)
0 GAMMA CONTOUR LINE
50 GAMMA CONTOUR LINE
100 GAMMA CONTOUR LINE
MAGNETIC DEPRESSION
FLIGHT ALTITUDE 400 ABOVE TERRAIN

QUESTOR SURVEYS LIMITED
A Division of Village Survey
BENTON & ESTHER TOWNSHIP AREA
ONTARIO
Scale 1:125,000





QUESTOR SURVEYS LIMITED



BENTON & BEECHER TWP. AREA



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 Calgary, Alberta
 T2C 1K5, Canada
 Tel: (403) 243-1111
 Fax: (403) 243-1112
 Email: info@questorsurveys.com
 Website: www.questorsurveys.com

