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AIRBORNE ELECTROMAGNETIC SURVEY REPORT

CONWEST EXPLORATION COMPANY LIMITED

PICKLE LAKE AREA, ONTARIO

FILE NO. 13004 JULY 1971

Questor Surveys Limited, 20 Canso Rd., Rexdale, Ontario, Canada

INTRODUCTION

This report contains our interpretation of the results of an airborne electromagnetic survey flown in the Pickle Lake Area, Ontario, on May 3[illegible] and June [illegible], 197[illegible]. A brief description of the survey procedure together with recommendations for ground follow-up is included.

The survey totalled [illegible] line miles and was performed by [illegible]uestor Surveys Limited. The survey aircraft was a Skyvan CF-QSL and the operating base was Pickle Lake, 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 numbers 52 O and P.

MAP COMPILATION

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

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

SURVEY PROCEDURE

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

A line spacing of 1/8 mile was used.

INTERPRETATION AND RECOMMENDATIONS

A number of anomalous trends displaying good conductivity were intercepted during the INPUT survey. They could be due to the following sources:-

(i) bedrock effects, i.e. sulphides and/or graphite

(ii) structural effects, i.e. geological contacts

There was very little, if any, conductive overburden picked up during the survey.

What could be considered a geological contact is a long linear trend that runs east-west through the main block of the survey area. At several locations along this trend several zones of good conductivity have been outlined for further discussion later in the report. It is possible that greater concentrations of mineralization in these areas are responsible for the strong E.M. responses.

Conductive intercepts were also picked up on the few lines that were flown on what is known to be Groups 5 and 6.

Zone "A"

Besides having a good E.M. response, the zone displays good conductivity. There are two parallel conductors in this zone with the most southerly one having good magnetic correlation. The intercept having what could be regarded as the best conductivity in this zone is intercept 4 A. The geology is quite sketchy in this area, but it is thought to be basic and acidic volcanics. However, this would have to be verified in the field. This zone is regarded as being possibly associated with the UMEX copper-nickel find.

Zone "B"

A strong E.M. response is associated with the zone and there is good magnetic correlation. There is a possibility that the zone is associated with the old Kapkichi Nickel Mine. A horizontal loop E.M. survey is recommended.

Zone "C"

The zone displays good conductivity and has good direct magnetic correlation. As with Zone "A", the geology is sketchy, but it is possible that the conductor is associated with basic and acidic volcanics. A horizontal loop E.M. survey is suggested.

Zone "D"

The zone has good conductivity and has good direct magnetic correlation. The latter has values in the order of 500 to 1500 gammas. It is felt that the conductor could be due to an iron formation. The formation was picked up when flying both in a north-south and east-west direction. Ground work is suggested to determine the make-up of the iron formation.

Zone "E"

Besides displaying good conductivity, the zone has good direct magnetic correlation. It would appear that this zone is on the same horizon geologically as Zone "D". Intercept 35 A has a slow decay rate suggesting base metal possibilities. Ground work is suggested.

Zone "F"

Intercepts 68 A and 69 A in this zone display strong E.M. responses and show good conductivity. Both anomalies have good magnetic correlation. The zone is within the greenstone belt, but any correlation of the anomalies with detailed geology is not possible. Zone "F" appears to be on the same horizon as Zones "D" and "E". A ground survey is suggested to determine the source.

Zone "G"

Two short parallel conductors make up the zone and they both have good E.M. responses. Good direct magnetic correlation is on the southerly conductor, in the order of 170 gammas. A ground survey is recommended.

Zone "H"

With the exception of intercept 60 D, which has a good E.M. response, the remainder of the zone only has a fair response. There is no magnetic correlation associated with the zone, so it is possible that graphite or pyrite might be the cause of the anomaly. Ground work would have to be carried out to confirm this.

Zone "J"

The zone displays fair to good conductivity with magnetic correlation on the most eastern of the two conductors. Intercept 57 A shows a strong E.M. response and it is possible that it is within the volcanics. A vèrtical loop E.M. survey is recommended.

Zone "K"

Two parallel conductors make up this zone and they have what could be considered moderate responses. There is no magnetic correlation associated with the trends, suggesting the presence of either graphite or pyrite.

Zone "L"

The zone has a good E.M. response. Intercepts 51 C and 53 A have been joined, indicating that it might be possible that they are the same conductor. Since intercept 51 C is close to a road, the anomaly could be due to a hydro line. The trend appears to be quite close to a greenstone and granite contact. This, however, would have to be checked on the ground.

Zone "M"

Two parallel conductors are within the zone and both have a moderate E.M. response. There is no magnetic correlation on the north conductor, while the south trend has magnetics in the order of 750 gammas. The zone should be looked at for base metal possibilities.

Conductor #1

This trend displays a strong E.M. response and shows good conductivity. There is direct magnetic correlation associated with the conductor. Intercept 36 A is located close to a road and thus the conductor should be checked with a ground reconnaissance survey.

Conductor #2

The trend parallels a road near the old Central Patricia Mine except for intercept 97 C. The latter has a strong E.M. response and shows good conductivity. There is no magnetic correlation associated with the trend suggesting the presence of either pyrite or graphite. A ground reconnaissance survey is recommended.

Conductors #3, #4 and #5

Conductor #3 has a fair E.M. response and has no magnetic correlation. It is possible that pyrite is the cause.

Conductor #4 has good amplitude definition and has good direct magnetic correlation. The trend should be looked at for base metal possibilities.

Conductor #5 has a strong E.M. response and has good direct magnetic correlation. Towards the eastern portion of the conductor, the magnetics are in the order of 3000 gammas suggesting the presence of iron formation. A ground reconnaissance survey is recommended for all three conductors.

Conductor #6

The conductor has a strong E.M. response and has good magnetic correlation. Magnetic sulphides are thought to be the cause. A horizontal loop E.M. and magnetometer survey is recommended.

Conductor #7

The conductor has a moderate E.M. response having no magnetic correlation. Non-magnetic sulphides or minor graphite could be the cause. A ground reconnaissance survey is suggested to determine the cause.

R. J. de Carle

P. G. Lazenby

APPENDIX

EQUIPMENT

The aircraft are equipped with Mark V INPUT airborne E.M. systems and Barringer AM-104 proton precession magnetometers. 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) MARK V 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 area-turns, 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 bottoms 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 260, 480, 744, 1096, 1536 and 2064 micro-seconds after the cessation of the pulse. The widths of the gates are 220, 220, 308, 396, 484 and 528 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) BARRINGER AM-104 PROTON PRECESSION MAGNETOMETER

The AM-104 magnetometer which measures the total magnetic field has a sensitivity of 5 gammas 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 1.15 seconds and then the transmitter is switched off for 0.15 seconds while the precesseion frequency is being recorded and converted to gammas. Thus a magnetic reading is taken every 1.3 seconds.

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 visicorder record.

A sample record is included at the end of the report identifying the method used to correct for the position of the E.M. "Bird" and identifies the parameters on each channel. Occasionally, a question mark may be shown alongside the anomaly symbol. This may occur when the response is very weak and there is some doubt as to whether or not it is caused by turbulence of compensation noise caused by large changes in the positon of the "bird" relative to the aircraft.

All the anomaly locations, magnetic correlations, and the amplitudes of channel number 4 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.

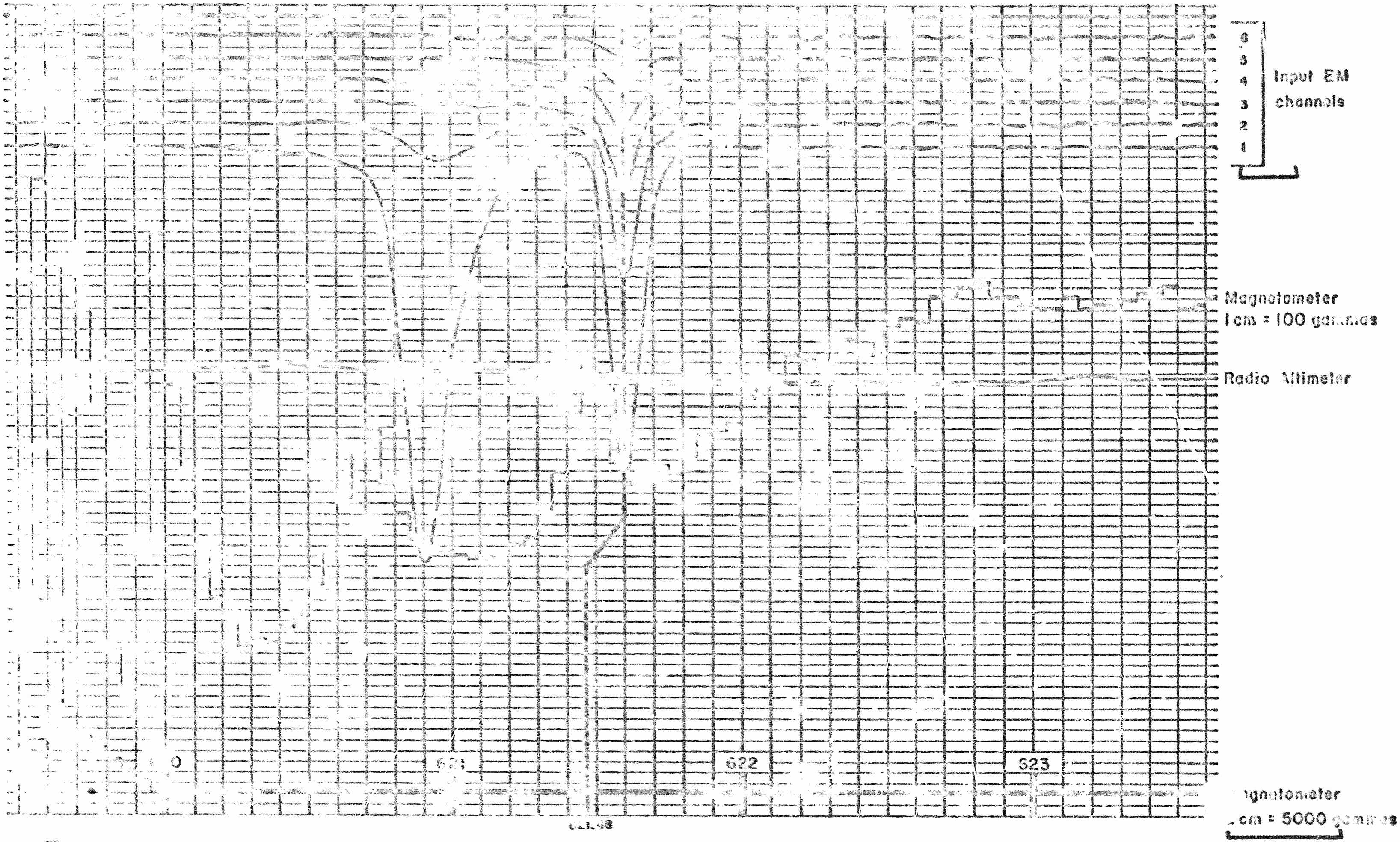
Railroad and pipeline responses are recognized by studying the film strips.

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.

Serpentized 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 a 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.


6
5
4
3
2
1
Input EM channels
Magnetometer
1 cm = 100 gammas
Radio Altimeter
621
622
621.48

SCHEDULE

Claim Numbers	Assessment Work Credit	Claim Numbers	Assessment Work Credit
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287284	40 days	295329	"
287285	"	295330	"
287286	"	295331	"
287287	"	295332	"
287288	"	295333	"
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287290	"	295335	"
287291	"	295336	"
287292	"	295337	"
287293	"	295338	"
287294	"	295339	"
287295	"	295352	"
287296	"	295353	"
295314	"	295354	"
295315	"	295355	"
295316	"	295356	"
295317	"	295357	"
295318	"	295362	"
295319	"	295363	"
295320	"		
295321	"		
295324	"		
295325	"		

Claim Numbers	Assessment Work Credit	Claim Numbers	Assessment Work Credit
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301843	20 days	301871	"
301844	"	301872	"
301845	"	301873	"
301846	"	301874	"
301847	"	301875	"
301848	"	301876	"
301849	"	301877	40 days
301850	"	301878	"
301851	40 days	301879	"
301852	"	301880	"
301853	"	301881	"
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301862	"	301507	"
301863	"	301508	"
301864	"	301509	"
301865	"	301510	"
301866	"	301511	"
301867	"	[illegible]	"

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301515	"	301479	"
301516	"	301480	"
301517	"	301481	"
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301519	"	301483	"
301520	"	301484	"
301521	"	301485	"
301522	"	301486	"
301523	"	301487	20 days
301524	"	301488	40 days
301525	"	301489	"
301526	"	301490	"
301527	"	301491	"
301528	"	301492	"
301529	"	301493	"
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301532	"	301496	"
301533	"	301497	"
301534	"	301498	"
301535	"	301499	"
301536	"	301500	20 days
301537	"	301408	40 days
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301421	"	301449	"
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301429	"	301457	20 days
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301431	"	301459	40 days
301432	"	301460	"
301433	"	301461	20 days
301434	"	301462	"
301435	"	301463	40 days
301436	"	301464	"
301437	"	301465	20 days
301438	"	301466	"
301439	"	301467	"

Claim Numbers	Assessment Work Credit	Claim Numbers	Assessment Work Credit
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301469	"	293979	"
301470	"	293980	"
301471	"	293981	"
301472	"	293982	"
301473	"	293983	"
301474	"	293984	"
301475	"	293985	"
301476	"	298986	"
301607	"	293987	"
301608	"	293988	"
301609	"	293989	"
301610	"	293990	"
301611	"	293991	"
301612	"	293992	40 days
301619	"	293993	"
301620	"	293994	20 days
301621	"	293995	"
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301629	"	301726	"
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301637	"	301728	"
301638	"	301729	"
301639	"	301730	"
301646	"	301731	"
301647	"	301732	"
301648	"	301733	"
		301734	"

Claim Numbers	Assessment Work Credit
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301736	"
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301404	"
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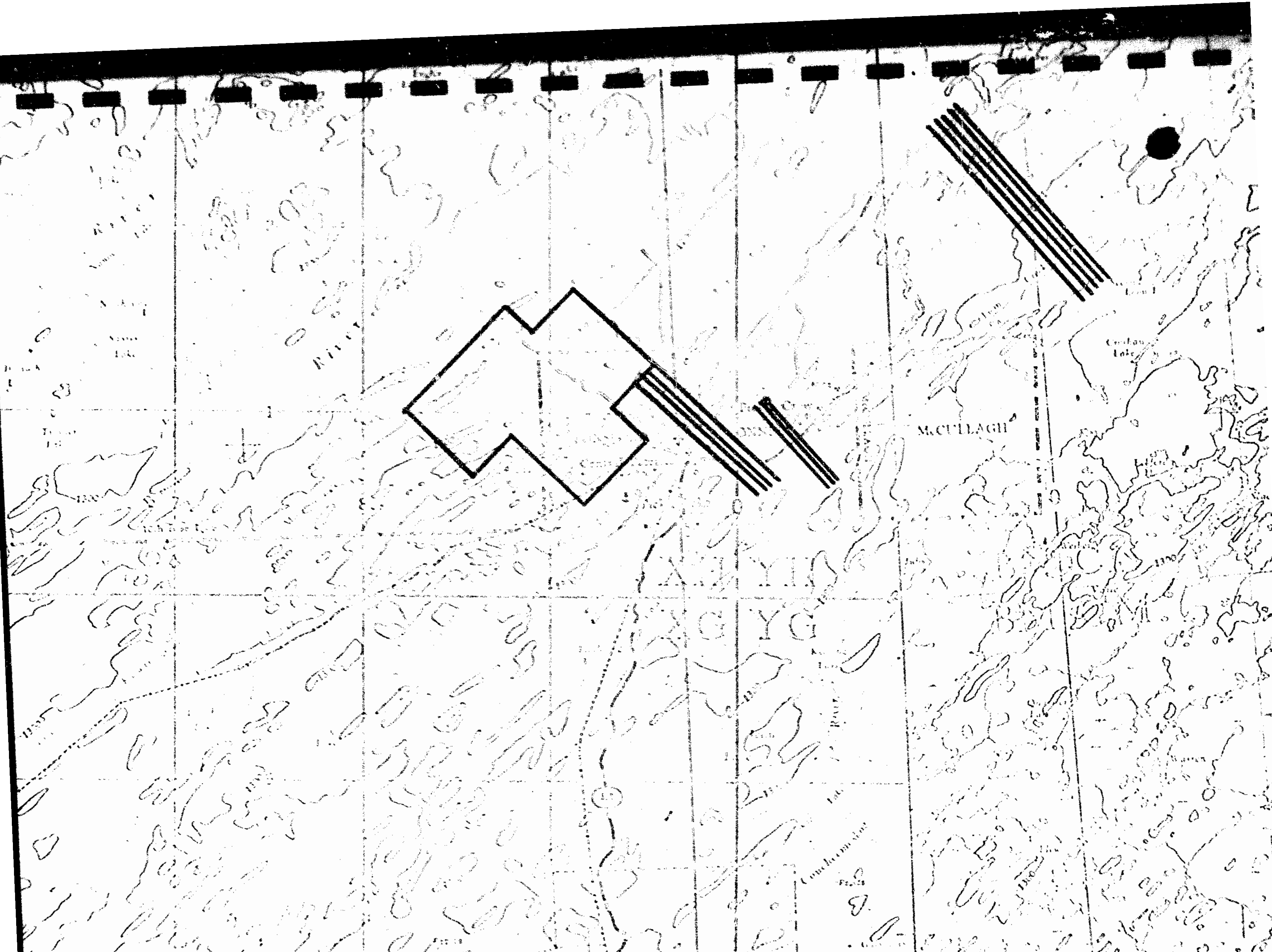
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Area [illegible]

File No [illegible]

Page No. [illegible]

Anomaly Number	Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak Location	Flanking Magnetic Peak Value	Remarks
1 A	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	
B	[illegible]	3	[illegible]	[illegible]			
C	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	
2 [illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	-	-			
[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	
3 A	[illegible]	[illegible]	[illegible]	[illegible]			
4 [illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	
5 [illegible]	[illegible]	[illegible]		-			
[illegible]	[illegible]	[illegible]		-	[illegible]	[illegible]	
6 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
7 [illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	
	[illegible]	[illegible]		[illegible]			
[illegible]	[illegible]	[illegible]	-	-			
[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	
	[illegible]	[illegible]					
14 [illegible]	[illegible]	[illegible]					
	[illegible]						
15 [illegible]	[illegible]	[illegible]					
B	[illegible]	[illegible]	-	-	[illegible]		
16 A	[illegible]	[illegible]	-	-			
B	[illegible]	[illegible]	-	-			

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Area: Dickie Lake

File No. ____

Page No. ____

Anomaly Number		Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak Location	Flanking Magnetic Peak Value	Remarks
19	[illegible]	25[illegible]	[illegible]	[illegible]	95[illegible]			
20	A	[illegible]	[illegible]	[illegible]	–	[illegible]	[illegible]	
21	A	[illegible]	2			[illegible]	[illegible]	
22	A	[illegible]	2	–	–	[illegible]	[illegible]	
23	A	[illegible]	2	–	–	22[illegible]	[illegible]	
24	A	[illegible]	2	–	–	[illegible]	[illegible]	
[illegible]	A	[illegible]	2	–	–	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	2	[illegible]	–	[illegible]	[illegible]	
[illegible]	A	[illegible]	2	[illegible]	–	[illegible]	[illegible]	
[illegible]	A	[illegible]	2	–	–	[illegible]	[illegible]	
[illegible]	A	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
	B	[illegible]	2	–	–	[illegible]	[illegible]	
[illegible]	A	[illegible]	2	–	–			
	B	[illegible]	2	[illegible]	[illegible]			
[illegible]	A	[illegible]	2	–	–	[illegible]	[illegible]	
[illegible]	A	[illegible]	[illegible]	[illegible]	3[illegible]			
[illegible]	A	[illegible]	2	–	–			
	B	[illegible]	2	–	–			
33	A	[illegible]	[illegible]	30	–	604.30	160	[illegible]

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Area *Pickle Lake*

File No. ______

Page No. ______

Anomaly Number	Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak Location	Flanking Magnetic Peak Value	Remarks
39 A	[illegible]	[illegible]	–	–			
[illegible]	[illegible]						
	[illegible]	[illegible]		[illegible]			
	[illegible]	[illegible]		[illegible]			[illegible]
40	[illegible]	[illegible]		–			
	[illegible]	[illegible]		[illegible]			
	[illegible]	[illegible]		[illegible]			
41	[illegible]	[illegible]			[illegible]	[illegible]	
	[illegible]	[illegible]	–	–	[illegible]	[illegible]	
42	[illegible]	2			[illegible]	[illegible]	
	[illegible]	[illegible]	–	–			
	[illegible]	[illegible]	–	–			
	[illegible]	[illegible]			[illegible]	[illegible]	
43	[illegible]	[illegible]	–	[illegible]			
	[illegible]	[illegible]	–	–			
	[illegible]	[illegible]	–	–	[illegible]	[illegible]	
	[illegible]	[illegible]	–	–			
44	[illegible]						
	[illegible]	[illegible]	[illegible]				
	[illegible]	4	[illegible]	–			
45	[illegible]		–	[illegible]			
4[illegible]	[illegible]	2	–		[illegible]	[illegible]	
	[illegible]	[illegible]		[illegible]			[illegible]
4[illegible] A	[illegible]	[illegible]	–	–	129.35	[illegible]	
4[illegible] A	[illegible]	4	–	–			

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Area PICKLE LAKE

File No. [illegible]

Page No. [illegible]

Anomaly Number	Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak		Remarks
					Location	Value	
39 A	847.71	2	–	–			
B	847.92	2					
C	848.65	6	[illegible]	125 γ			
D	849.22	2		95 γ			SHOULDER ON MAG
40. A	867.35	2		–			
B	[illegible]	2		180 γ			
C	872.26	2		52 γ			
41 A	910.46	2			910.55	92 γ	
B	912.[illegible]	2	–	–	912.45	170 γ	
42 A	[illegible]	3			924.25	65 γ	
B	925.22	3	–	–			
C	.73	2	–	–			
D	[illegible]	2			925.65	220 γ	
43 A	[illegible]	3	–	140 γ			
B	[illegible]	2	–	–			
C	[illegible]	[illegible]	–	–	[illegible]	570 γ	
D		3	–	–			
44 A	972.[illegible]	[illegible]	–	–			
B	[illegible]	4	[illegible]				
C	973.[illegible]	4	[illegible]	–			
45 A	995.[illegible]	[illegible]	–	230			
46 A	[illegible]	3	–		FLANKS A		
B	.70	2		25 γ			BROAD MAG
48 A	[illegible]	2	–	–	159.35	10 γ	
49 A	211.[illegible]	4	–	–			

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Area PICKLE LAKE

File No. 13004

Page No. 4

Anomaly Number	Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak Location	Flanking Magnetic Peak Value	Remarks
51 A.	157.22	2	-	-			
B.	161.46	3	-	-			
C.	.57	6	.20	-			
D.	.34	4	.10	-			
E	.98	5	.15	-			
51 A.	893.11	3	-	-			
B.	894.12	3	-	-	894.05	30γ	
C	.50	2	-	-			
52 A	945.89	3	-	-			
B	946.10	2	-	-			
53 A	[illegible].74	5	.20	130γ			
B	[illegible].80	4	.05	30γ			
55 A	[illegible]	3	-	-			
B	707.12	3	-	20γ			
55 A	[illegible]	3		165γ			
56 A	927.[illegible]	3	-				
B.	[illegible]	3	-	40γ			
C	.15	2	-	130γ			
56 A	139.57	6	.30	215γ			
B	140.[illegible]	5	.25	-			
C.	.26	2		-			
D	.63	3	-	200γ			
56 A	922.31	5	.15	-	922.40	190γ	
B.	.15	6	-	-			
C.	.70	6	.15	-			
57 A	389.19	6	.25	130γ			
B	.13	2					

Questor Surveys Limited

Area PICKLE LAKE
File No. 13004
Page No. 5

Anomaly Number	Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak Location	Flanking Magnetic Peak Value	Remarks
58 A.	380.08	3	-	-			
59 A.	391.25	3	-	-			
B.	.59	4	.10	-			
60 A.	378.21	3	-	-			
B.	.62	5	.20	120 γ			
C.	.81	6	.30	-			
D.	379.11	6	.90	-			
61 A.	400.41	3	-	-			
62 A.	369.76	3	-	-			
B.	.94	3					
63 A.	401.12	3	-	-			
B.	.50	3	-	-			
64 A.	368.90	3	-	-			
B.	369.01	3		-			
65 A.	410.28	5	.20	-			
B.	411.13	2	-	-			
C	32	2	-	-			
67 A.	413.13	2	-	75 γ			
68 A.	357.96	6	.50	130 γ			
69 A.	421.96	6	.30	20 γ			
70 A.	349.30	3	-	-			
B	350.22	3	-	-			
71 A.	423.40	3	-	-	423.50	400 γ	

Questor Surveys Limited

Area: PICKLE LAKE

File No. ______

Page No. ______

Anomaly Number	Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak Location	Flanking Magnetic Peak Value	Remarks
22 A	[illegible]	[illegible]	[illegible]	[illegible]			
B	348.90	3	–	[illegible]			
23	[illegible]	2	–	–	929.85	[illegible]	
25 [illegible]	[illegible]	2	–	–	935.75	[illegible]	
[illegible]	[illegible]	[illegible]	–	–			
B	[illegible]	[illegible]	–	–			
C	[illegible]	3	–	[illegible]			
[illegible]	[illegible]	3	–	–	932.90	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	–	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	2	–	–			
B	[illegible]	[illegible]	[illegible]	–			
[illegible]	[illegible]	[illegible]	[illegible]	–			
[illegible]	[illegible]	[illegible]	[illegible]	–			
B	[illegible]	[illegible]	[illegible]	–			
[illegible]	[illegible]	3	–	–			
[illegible]	[illegible]	[illegible]	–	–			
[illegible]	[illegible]	[illegible]	–	[illegible]			
[illegible]	[illegible]	[illegible]	–	–			
[illegible]	[illegible]	[illegible]	–	–			
[illegible]	[illegible]	[illegible]	[illegible]	–			

Questor Surveys Limited

Area: PICKLE LAKE
File No. [illegible]
Page No. 2

Anomaly Number	Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak Location	Flanking Magnetic Peak Value	Remarks
100 A	[illegible]	2	—	—			
B	[illegible]	6	[illegible]	380 [illegible]			
C	19	[illegible]	15	[illegible]			
D	[illegible]	4	[illegible]	—	[illegible]	[illegible]	
E	[illegible]	2	—	—	[illegible]	[illegible]	
F	[illegible]	2	—	—			
G	[illegible]	4	.15	—			
H	[illegible]	[illegible]	[illegible]	—	[illegible]	[illegible]	
J	[illegible]	5	[illegible]	—			
K	[illegible]	2	—	—			
L	[illegible]	2	—	—			
101 A	[illegible]	4	[illegible]	—			
B	[illegible]	[illegible]	—	—			
C	[illegible]	[illegible]	[illegible]	—			
D	[illegible]	[illegible]	[illegible]	380 [illegible]			
E	[illegible]	2	—	[illegible]			
F	[illegible]	2	—	—			
G	[illegible]	2	—	[illegible]			
H	[illegible]	[illegible]	[illegible]	—	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	—	—			
[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	
M	[illegible]	4	[illegible]	—			
[illegible]	[illegible]	[illegible]	[illegible]	—			
[illegible]	[illegible]	[illegible]	—	—			
C	[illegible]	3		—			
D	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]		[illegible]	[illegible]			
F	[illegible]		—	—			
G	[illegible]		—	—			
H	[illegible]	2	—	—	558.50	[illegible]	
J	[illegible]	5	.20	—	559.35	[illegible]	
K	19	5	.15	—			
L	560.04	5	.10	—			

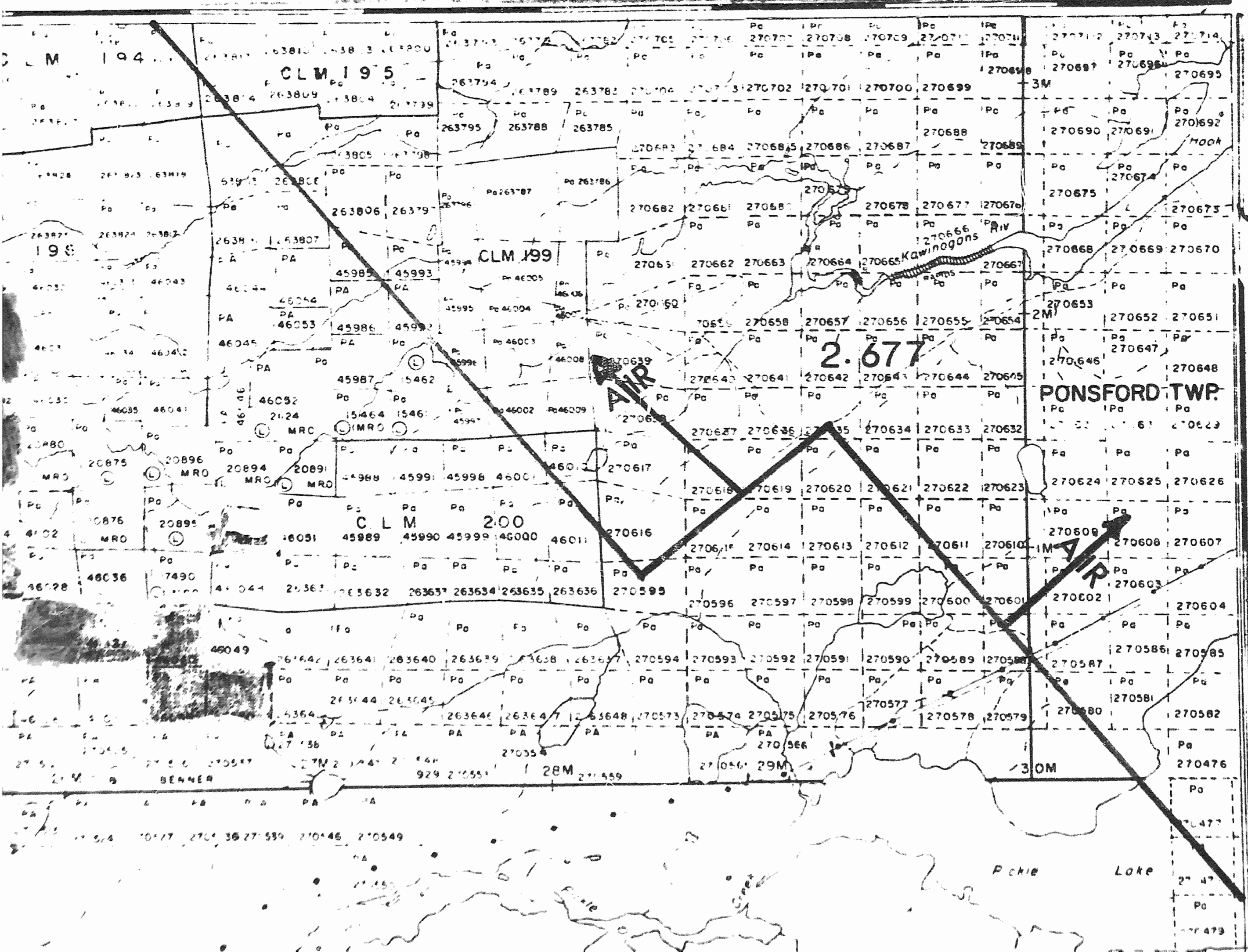
Area PICKLE LAKE

Questor Surveys Limited

File No. 13004

Page No. 8

Anomaly Number	Fiducial	Number of Channels	Channel 4 Amplitude	Direct Magnetic Correlation	Flanking Magnetic Peak Location	Flanking Magnetic Peak Value	Remarks
103 A	086.13	4	.10	-			
B	.58	6	.35	-			
C	.87	6	.30	1300 γ			
D	090.41	5	.10	-			
E	.56	5	.10	60 γ	090.70	290 γ	SHOULDER MAG.
F	.93	4	.05	-			
G	091.32	6	.25	-	091.25	90 γ	SHOULDER MAG.
H	.65	4	.15	-			
104 A	062.78	6	1.00	-			
B	.72	6	1.15	32550 γ			
C	021.22	3	-				
D	.36	5	.10	-			
E	.63	4	.10	-			
F	.75	6	.35	250 γ			
G	021.96	6	.45	-			
H	022.35	6	.35	-	022.30	170 γ	
J	.70	5	.15	-			
AS A	132.90	6	.10		132.85	400 γ	
3N A	119.75	4	.05	-			
B	120.36	6	.45	-	120.30	450 γ	
C	121.72	3		170 γ			
D	122.30	4	.20	90 γ			
ON A	107.27	6	.50	620 γ			
B	107.30	5	.15		107.15	110 γ	
	.75	4	.10		107.80	1270 γ	



M. 2228

AREA OF

KAPKICHI LAKE

DISTRICT OF KENORA
PATRICIA PORTION

PATRICIA MINING DIVISION

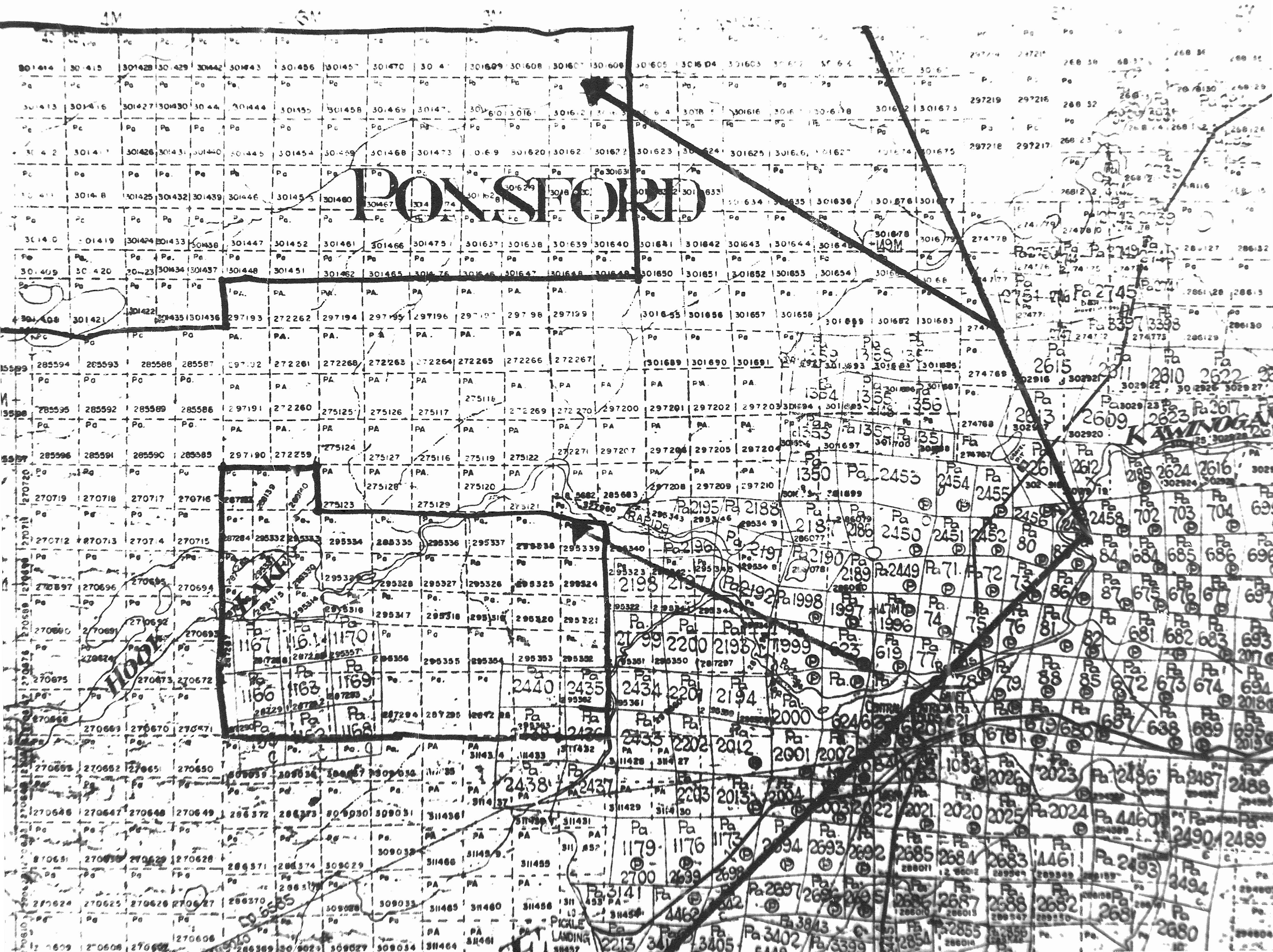
SCALE: 1-INCH = 40 CHAINS

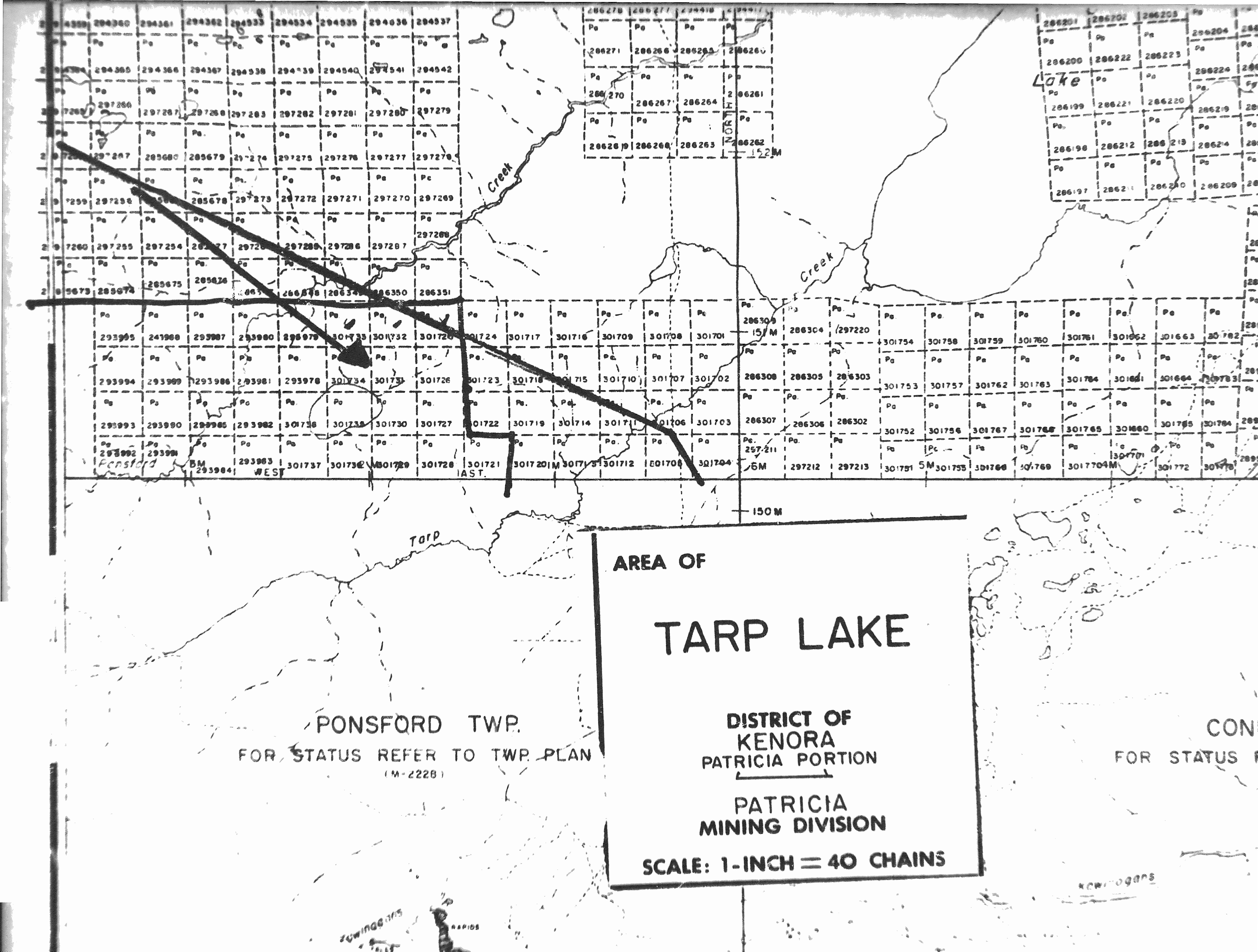
LEGEND

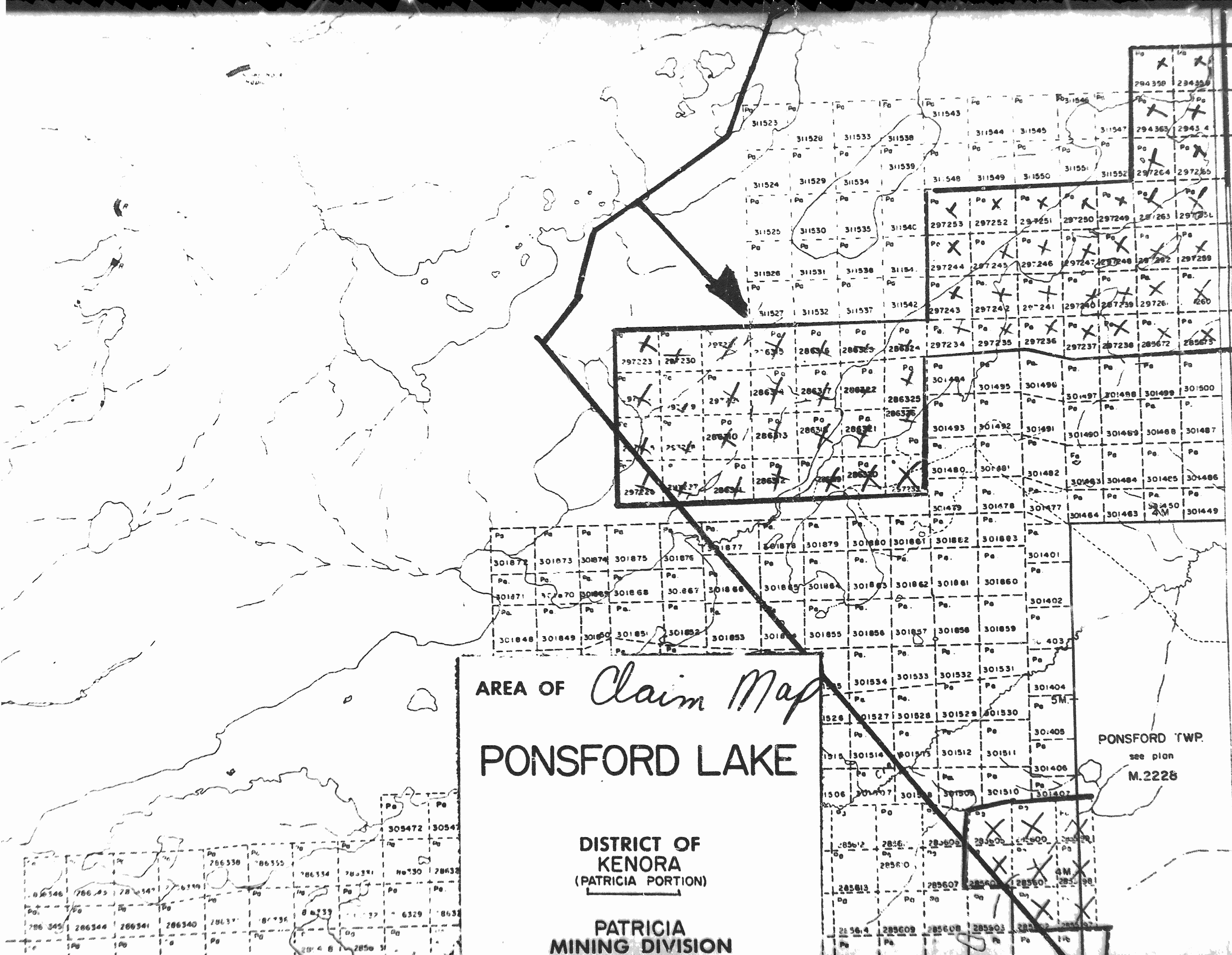
PATENTED LAND	P
CROWN LAND SALE	C S
LEASES	L
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

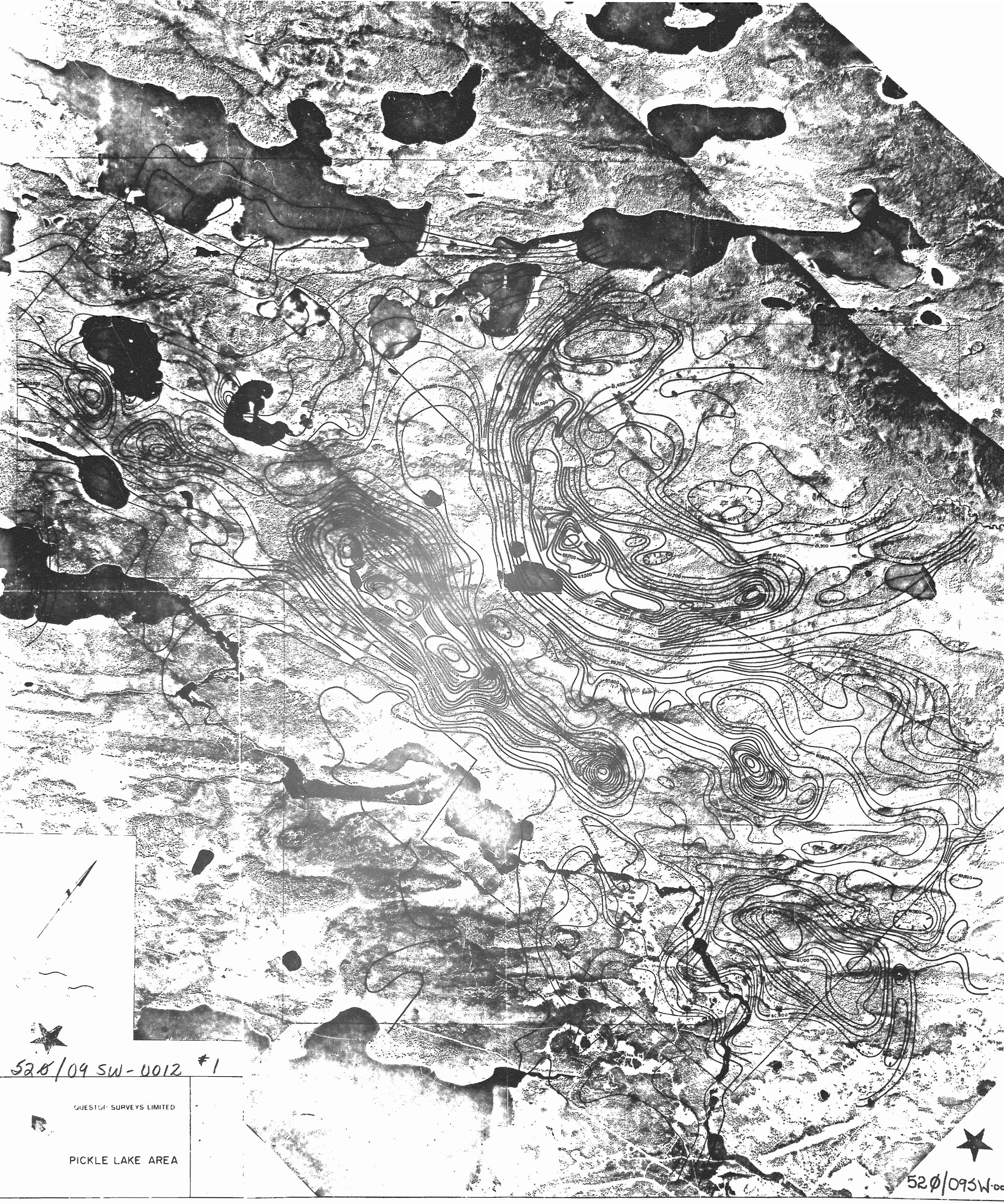
NOTES

400' Surface Rights Reservation around all lakes and rivers


PONSFORD
RAPIDS
PICKLE LANDING


AREA OF
TARP LAKE
DISTRICT OF
KENORA
PATRICIA PORTION
PATRICIA
MINING DIVISION
SCALE: 1-INCH = 40 CHAINS
PONSFORD TWP.
FOR STATUS REFER TO TWP. PLAN
(M-2228)
FOR STATUS
Lake
Creek
Creek
Tarp
NORTH
150M
151M
152M


AREA OF Claim Map
PONSFORD LAKE
DISTRICT OF
KENORA
(PATRICIA PORTION)
PATRICIA
MINING DIVISION
PONSFORD TWP.
see plan
M.2228

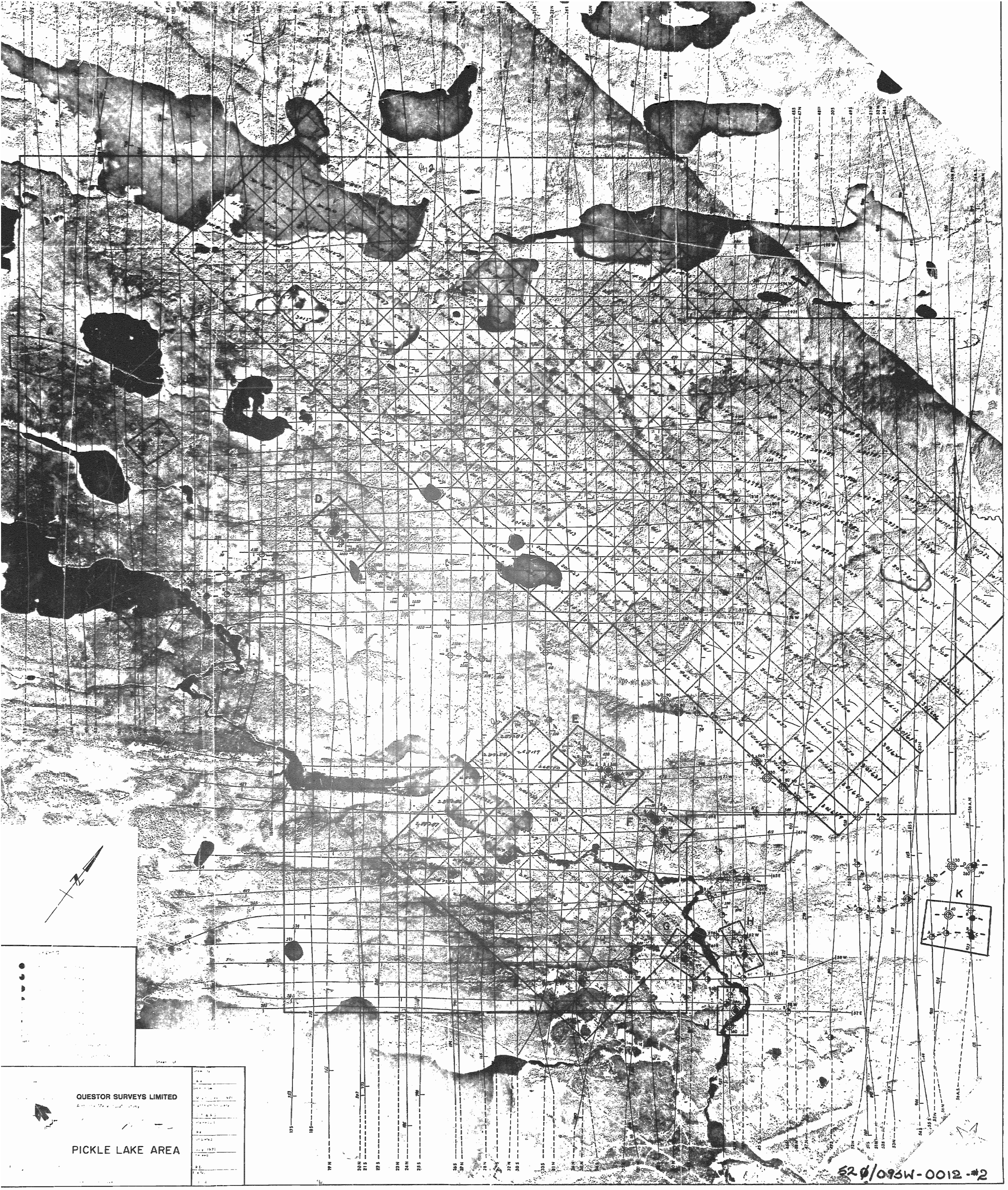


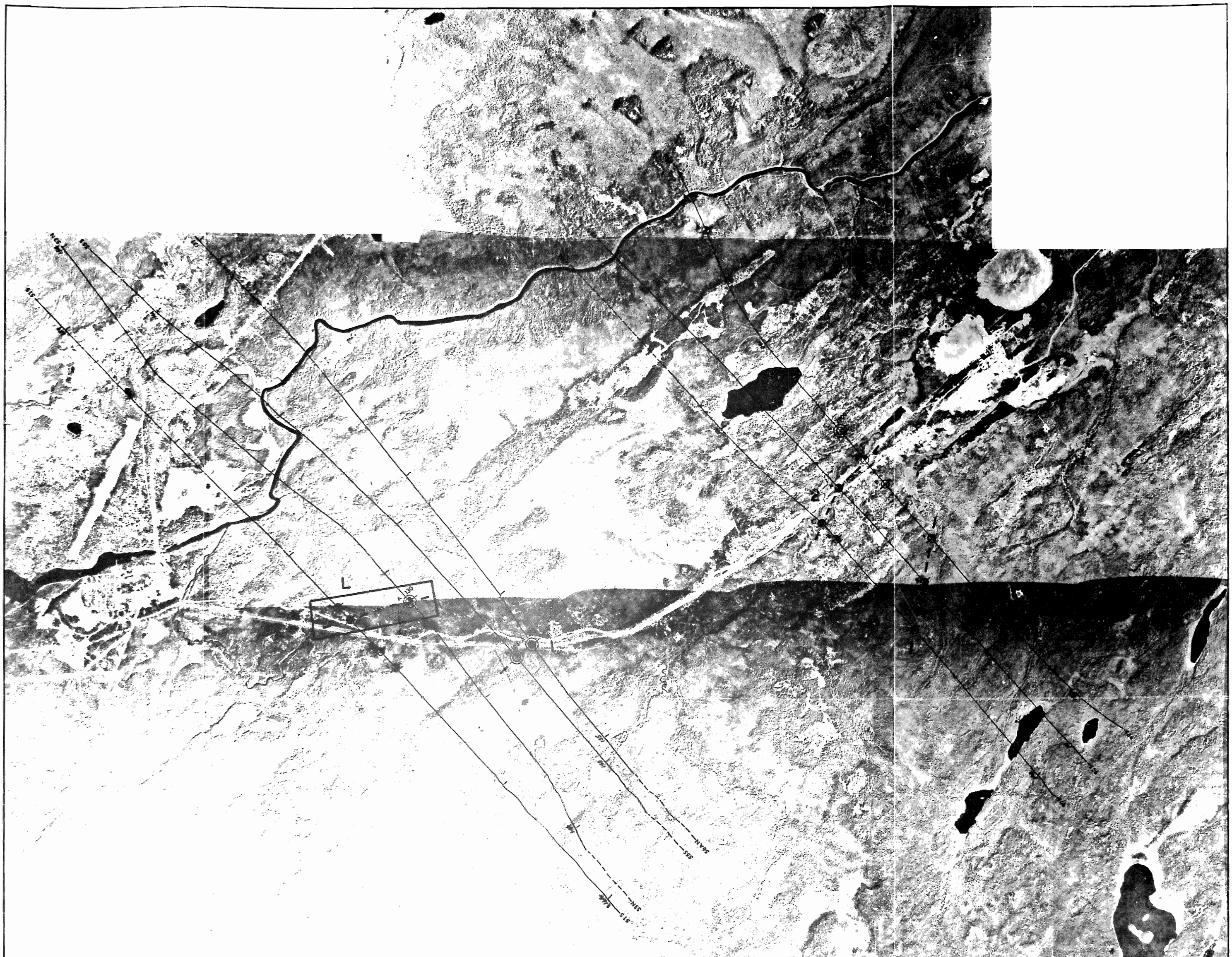
52O/09SW-0012 #1

QUESTOR SURVEYS LIMITED

PICKLE LAKE AREA

52O/09SW-0012 #1


QUESTOR SURVEYS LIMITED
PICKLE LAKE AREA
52O/09SW-0012-#2
D
E
F
H
K



520/09SW-0012-#3
SW-

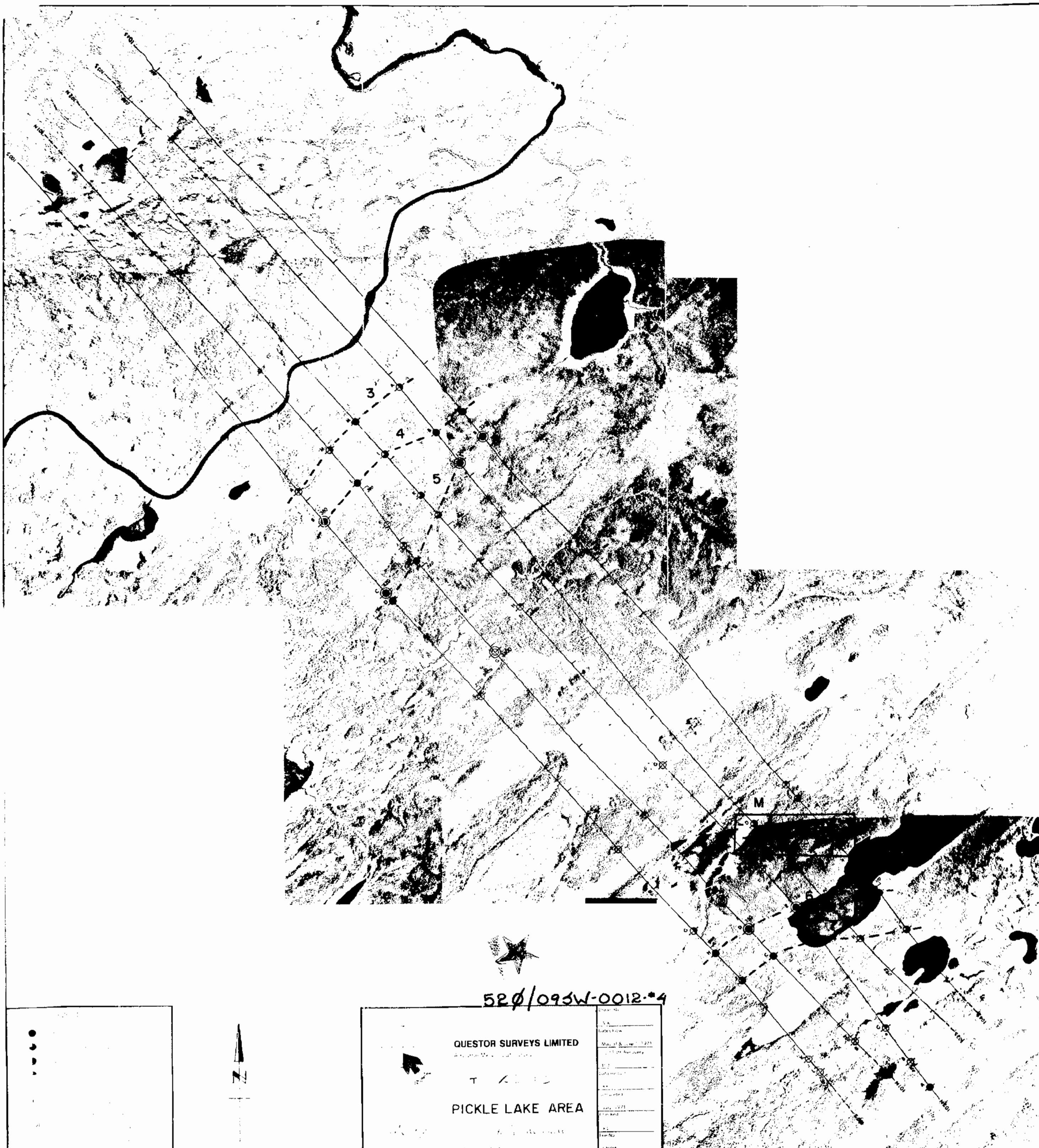
QUESTOR SURVEYS LIMITED

PICKLE LAKE AREA

Drawn By

Dates Flown

30x


3
4
5
M
6
520/09SW-0012-#4
QUESTOR SURVEYS LIMITED
PICKLE LAKE AREA
N

30x