

REPORT NO. 202

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MINING LANDS SECTION

DIGHEM^{III} SURVEY

OF THE

STURGEON LAKE AND KAKAGI LAKE AREAS, ONTARIO

FOR

SAULT MEADOWS ENERGY CORPORATION

BY

DIGHEM LIMITED

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D.C. FRASER President

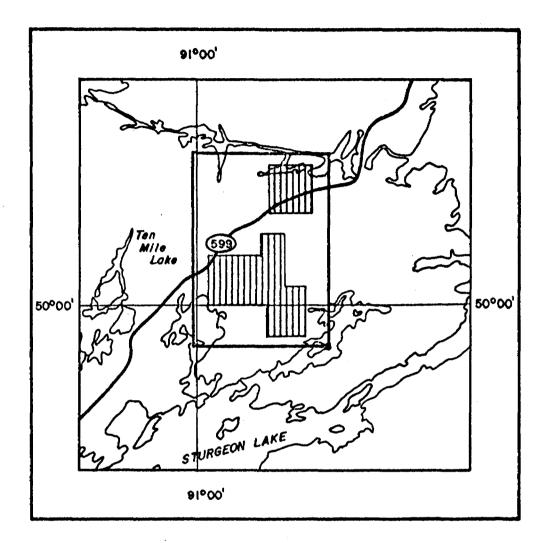
Toronto, Ontario September, 1984

SUMMARY AND RECOMMENDATIONS

A total of 549 km of survey was flown in April and July, 1984, over properties held by Sault Meadows Energy Corporation in the Sturgeon Lake and Kakagi Lake areas.

The survey outlined several discrete bedrock conductors in the midst of many overburden conductors. The bedrock anomalies generally warrant further investigation using appropriate surface exploration techniques, providing they have not been explored earlier.

LOCATION MAP



Scale 1:250,000 FIGURE 1A THE SURVEY AREA



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A. The Flight Record and Path Recovery

B. EM Anomaly List

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INTRODUCTION

A DIGHEM^{III} survey was flown over a number of claim blocks with 300 m line-spacings for Sault Meadows Energy Corporation. A total of 122 km was flown on April 22, 1984 in the Sturgeon Lake area of Ontario (Figure 1a), and 427 km was flown from July 6 to 8 in the Kakagi Lake area (Figure 1b).

The NSM Astar turbine helicopter flew at an average airspeed of 115 km/h with an EM bird height of approximately Ancillary equipment consisted of a Sonotek PMH 5010 32 m. magnetometer with its bird at an average height of 47 m, a Sperry radio altimeter, a Geocam sequence camera, an RMS GR33 analog recorder, a Sonotek SDS 1200 digital data acquisition system and a Digidata 1140 9-track 800-bpi magnetic tape recorder. The analog equipment recorded four channels of EM data at approximately 900 Hz, two channels of EM data at approximately 7200 Hz, two ambient EM noise channels (for the coaxial and coplanar receivers), two channels of magnetics (coarse and fine count), and a channel of radio altitude. The digital equipment recorded the EM data with a sensitivity of 0.2 ppm and the magnetic field to one nT (i.e., one gamma).

Appendix A provides details on the data channels, their respective sensitivities, and the flight path recovery procedure. Noise levels of less than 2 ppm are generally maintained for wind speeds up to 35 km/h. Higher winds may cause the system to be grounded because excessive produces difficulties in the bird swinging flying The swinging results from the 5 m^2 of area helicopter. which is presented by the bird to broadside gusts. The DIGHEM system nevertheless can flown be under wind conditions that seriously degrade other AEM systems.

It should be noted that the anomalies shown on the electromagnetic anomaly map are based on a near-vertical, half plane model. This model best reflects "discrete" bedrock conductors. Wide bedrock conductors or flat-lying conductive units, whether from surficial or bedrock sources, may give rise to very broad anomalous responses on the EM profiles. These may not appear on the electromagnetic anomaly map if they have a regional character rather than a locally anomalous character. These broad conductors, which more closely approximate a half space model, will be maximum coupled to the horizontal (coplanar) coil-pair and are clearly evident on the resistivity map. The resistivity

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SECTION I: SURVEY RESULTS

CONDUCTORS IN THE SURVEY AREA

The electromagnetic anomaly map shows the anomaly interpreted conductor locations with the type, dip. conductance and depth being indicated by symbols. Direct magnetic correlation is also shown if it exists. The strike direction and length of the conductors are indicated when anomalies can be correlated from line to line. When studying the map sheets for follow-up planning, consult the anomaly listings appended to this report to ensure that none of the conductors are overlooked.

Sturgeon Lake

The Sturgeon Lake survey covered two small areas with 122 km of flying, the results of which are shown on one map sheet for each parameter. Table I-1 summarizes the EM responses on the Sturgeon Lake sheet with respect to conductance grade and interpretation.

The resistivity map shows the conductive properties of the Sturgeon Lake area. Some of the resistivity lows (i.e., conductive areas) coincide with bedrock conductors and others indicate lakes. The resistivity is generally greater than 300 ohm-m over the lakes, but often is below 30 ohm-m

TABLE I-1

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EM ANOMALY STATISTICS OF THE STURGEON LAKE AREA

CONDUCTOR GRADE	CONDUCTANCE RANGE	NUMBER OF RESPONSES
6	> 99 MHOS	1
5	50-99 MHOS	0
4	20-49 MHOS	5
3	10-19 MHOS	4
2	5- 9 MHOS	1
1	< 5 MHOS	61
x	INDETERMINATE	51
		100

TOTAL 123

CONDUCTOR MODEL	MOST LIKELY SOURCE	NUMBER OF RESPONSES
В	DISCRETE BEDROCK	11
S	COVER	103
L	CULTURE	9
TOTAL		123

(SEE EM MAP LEGEND FOR EXPLANATIONS)

over bedrock conductors. The resistivity patterns may aid geologic mapping and in extending the length of known zones.

A powerline runs through part of the Sturgeon Lake area. It influences the resistivity and electromagnetic anomaly patterns somewhat but has negligible effect on the usefulness of airborne exploration of the property.

The total field magnetic map is quite inactive except for the southwest corner.

The enhanced magnetic map shows a number of individual magnetic zones much more distinctly than the total field magnetic map. For example, there is a magnetic correlation with 105D-106B* which shows clearly on the enhanced map but which is barely visible on the total field map. The enhanced map, which is proprietary to Dighem Limited, is more suited to exploration than the total field map.

The following description of EM anomalies focusses primarily on the probably bedrock conductors (interpretive symbol "B" or "B?"). Anomalies which have been interpreted as due to conductive overburden (interpretive symbol "S" or "S?") or culture ("L") are generally ignored in this discussion.

* EM anomaly B on line 106.

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Anomalies 1E-2E, 4E-5xA These two conductors may occur along a single geologic horizon over a strike length in excess of 4600 ft. They are non-magnetic, located adjacent but are to magnetic features. The conductance grade is 3 to 4. Well-defined anomalies resistivity are associated with the conductors. They are excellent targets.

Anomaly 7C A single-line grade 1 conductor occurs near a lake. It is non-magnetic and poorly conductive.

Anomaly 15xB An x-type EM response may be worth following up only because the number of targets from this survey are limited.

Anomaly 18A The single-line anomaly represents an excellent target. Magnetic correlation exists with this highly conductive grade 6 conductor. A strong resistivity anomaly occurs. Both the resistivity and enhanced magnetic maps suggest the conductor may extend westward to line 17.

Anomaly 101A

A single-line grade 1 conductor was located off the survey area as the helicopter had commenced its turn. The conductor is non-magnetic and could possibly be caused by conductive surficial cover.

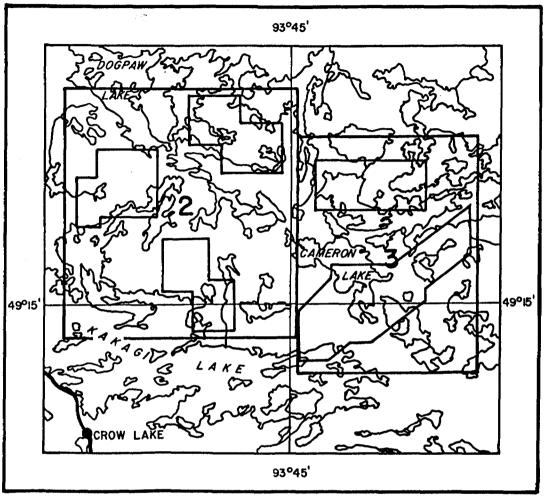
An excellent single-line target, with a strong resistivity anomaly, occurs on the north flank of a small enhanced magnetic feature. The conductance grade is 3.

This two-line conductor also forms an excellent target. The conductance grade varies from 1 to 4. The conductor may appear to be on strike with 102A. However, it correlates directly with an enhanced magnetic anomaly, whereas 102A occurs on a magnetic flank.

Anomaly 102A

Anomaly 105D-106B

LOCATION MAP



SCALE 1.250,000 FIGURE 1B THE SURVEY AREA

Anomaly 105A

A strong single-line grade 4 conductor, with a well-defined resistivity anomaly, yields an attractive target. A small magnetic correlation exists.

Kakagi Lake

The Kakagi Lake survey covered five small areas with 427 km of flying, the results of which are shown on two map sheets for each parameter. Table I-2 summarizes the EM responses on the Kakagi Lake sheets with respect to conductance grade and interpretation.

The resistivity maps show the conductive properties of the survey areas. Most of the resistivity lows (i.e., conductive areas) coincide with lakes and, apparently, structural zones. The resistivity patterns may aid in geologic mapping and in extending the length of known zones.

TABLE I-2

EM ANOMALY STATISTICS OF THE KAKAGI LAKE AREA

CONDUCTOR GRADE	CONDUCTANCE RANGE	NUMBER OF RESPONSES
6	> 99 MHOS	0
5	50-99 MHOS	0
4	20-49 MHOS	1
3	10-19 MHOS	8
2	5- 9 MHOS	21
1	< 5 MHOS	642
x	INDETERMINATE	48
TOTAL		720

CONDUCTOR MODEL	MOST LIKELY SOURCE	NUMBER OF RESPONSES
В	DISCRETE BEDROCK	26
S	COVER	694

TOTAL

(SEE EM MAP LEGEND FOR EXPLANATIONS)

The total field and enhanced magnetic maps are highly active. A comparison of the total field magnetic map with the resistivity map shows the existence of a number of probable structures. Note the zone which runs through 212K and 215J of sheet 2. Another example is the zone which runs along line 313. It has a major impact on the resistivity map as it separates two conductive areas.

A low resistivity zone, having a width in excess of 1/2 mile, encompasses 301K-3046, 305D-G, etc. Several EM anomalies in this zone have been interpreted as "S?". They may actually be caused by weak bedrock or structural conductivity, rather than conductive overburden. Nevertheless, those anomalies that are interpreted as "S" or "S?" do not have the features which are characteristic of mineralization.

The following description of EM anomalies focusses primarily on the probably bedrock conductors (interpretive symbol "B" or "B?"). Anomalies which have been interpreted as due to conductive overburden (interpretive symbol "S" or "S?") or culture ("L") are generally ignored in this discussion.

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Anomaly 202B

212K

A weak single-line EM anomaly occurs without magnetic association. There is a local resistivity low. This grade 1 anomaly is not attractive but it could reflect weak bedrock conductivity.

Anomalies 207D-208C, 211A-214B with or occur close to magnetic features. They have also generated distinct resistivity lows. These anomalies likely reflect bedrock conductors.

2080 Bedrock conductivity may have produced this weak non-magnetic anomaly.

> This grade 1 non-magnetic anomaly appears to occur along a structure which strikes parallel to the flight line. Note the location of this anomaly on the resistivity and total field magnetic maps. If this anomaly reflects bedrock conductivity, then other EM

anomalies on this same structure (e.g., 213H, 214R) may have a similar cause.

A grade 1 conductor runs across four lines, coinciding with a resistivity low and a magnetic high.

A single-line grade 4 EM anomaly occurs which is an excellent target. It correlates directly with a 30 gamma magnetic anomaly as can be seen on the profile. This target appears to occur within a northstriking structure as suggested by the total field magnetic map. The direct correlation between EM and magnetics, however, can only be seen on the enhanced magnetic map. This example illustrates the benefit of having Dighem's proprietary enhanced magnetic map in addition to the total field magnetic map.

A bedrock conductor is the most probable cause of the non-magnetic

301K-304G

3080

316H

grade 3 EM anomaly. It occurs within a conductive lake, but the anomaly shapes from the various coil combinations imply that a bedrock conducter has contributed to the overall response. It is located within a north-striking structure as can be seen on both the total field magnetic and resistivity maps.

Only one bedrock conductor appears to exist on the 400-series lines of sheet 2. This is 401G-402G, of which only 401G is a fairly interesting target. The other EM anomalies, without exception, appear to reflect conductive surface material. Some of the "S?" anomalies may be structurally controlled, e.g., 409C-412A.

The 500-series lines of sheet 3 contain only two bedrock conductors, as follows:

510L-511M

A two-line grade 3 conductor occurs within a lake. The lack of a correlating resistivity low suggests it may simply reflect a more conductive part of the lake bottom. As a result, the conductor is questionable. There is no magnetic correlation.

517E-519D, 517D, 517F

are, in These anomalies all likelihood, caused by bedrock conductors. They occur in а conductive lake but their anomaly characteristics are highly indicative of a bedrock source. The conductors occur on the north flank of an enhanced magnetic high.

Anomalies 504D-506G and 524C have the interpretive symbol "S?" and, hence, probably have a surficial origin. There is a possibility that they reflect very weak bedrock conductivity.

Arcuate patterns to the magnetics and resistivity on the east side of the 500-series grid indicates that the conductive patterns are structurally controlled. The arcuate resistivity anomaly, encompassing 527F, 529B, 529F, etc, correlates with a conductive lake which is arcuate in shape.

The 600-series lines contain only one bedrock conductor, 623I, which may extend eastward to 624D. There is a



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magnetic association as can best be seen on the enhanced magnetic map. Anomaly 623I is of conductance grade 3, and is a fairly attractive target.

As for the other survey blocks, the "S?" anomalies might be worth investigating if the geology was particularly attractive. Anomalies 613F, 615I and 617I-618H are perhaps somewhat more attractive than the other anomalies of this type.

SECTION II: BACKGROUND INFORMATION

ELECTROMAGNETICS

DIGHEM electromagnetic responses fall into two general classes, discrete and broad. The discrete class consists of sharp, well-defined anomalies from discrete conductors such as sulfide lenses and steeply dipping sheets of graphite and sulfides. The broad class consists of wide anomalies from conductors having a large horizontal surface such as flatly dipping graphite or sulfide sheets, saline water-saturated sedimentary formations, conductive overburden and rock, and geothermal zones. A vertical conductive slab with a width of 200 m would straddle these two classes.

The vertical sheet (half plane) is the most common model used for the analysis of discrete conductors. All anomalies plotted on the electromagnetic map are analyzed according to this model. The following section entitled Discrete conductor analysis describes this model in detail, including the effect of using it on anomalies caused by broad conductors such as conductive overburden.

The conductive earth (half space) model is suitable for broad conductors. Resistivity contour maps result from the



use of this model. A later section entitled **Resistivity** mapping describes the method further, including the effect of using it on anomalies caused by discrete conductors such as sulfide bodies.

Geometric interpretation

The geophysical interpreter attempts to determine the geometric shape and dip of the conductor. This qualitative interpretation of anomalies is indicated on the map by means of interpretive symbols (see EM map legend). Figure II-1 shows typical DIGHEM anomaly shapes and the interpretive symbols for a variety of conductors. These classic curve shapes are used to guide the geometric interpretation.

Discrete conductor analysis

The EM anomalies appearing on the electromagnetic map are analyzed by computer to give the conductance (i.e., conductivity-thickness product) in mhos of a vertical sheet model. This is done regardless of the interpreted geometric shape of the conductor. This is not an unreasonable procedure, because the computed conductance increases as the electrical quality of the conductor increases, regardless of its true shape. DIGHEM anomalies are divided into six

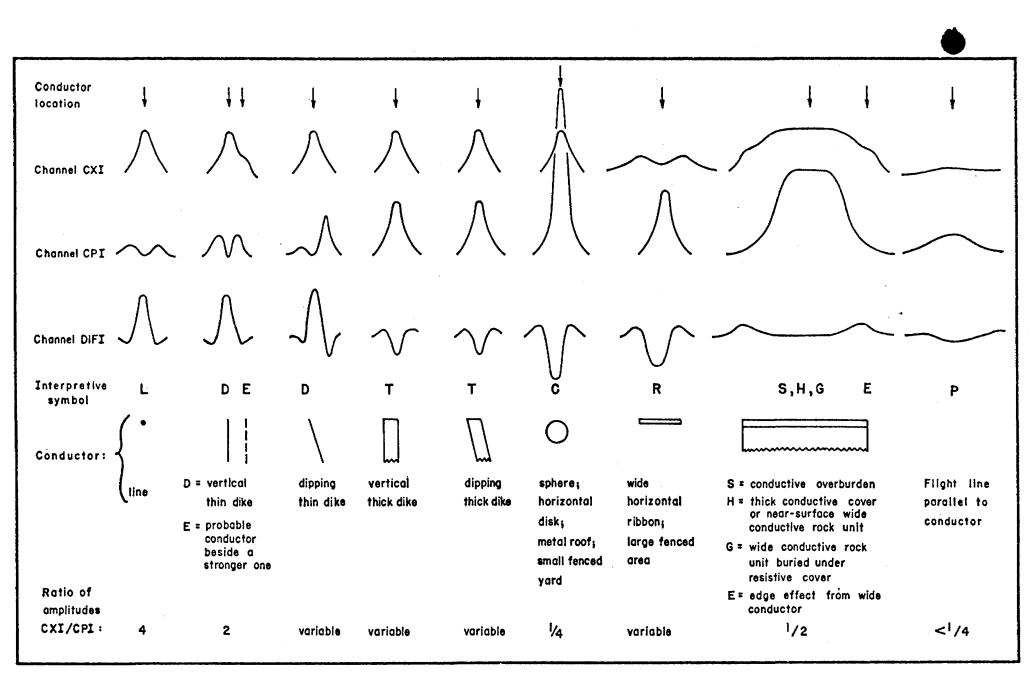


Figure II -1

Typical DIGHEM anomaly shapes

grades of conductance, as shown in Table II-1. The conductance in mhos is the reciprocal of resistance in ohms.

Anomaly Grade	<u>Mho Range</u>
6	> 99
5 4	50 - 99 20 - 49
3	10 - 19 5 - 9
1	< 5

Table II-1. EM Anomaly Grades

The conductance value is a geological parameter because it is a characteristic of the conductor alone; it generally is independent of frequency, and of flying height or depth of burial apart from the averaging over a greater portion of the conductor as height increases.¹ Small anomalies from deeply buried strong conductors are not confused with small anomalies from shallow weak conductors because the former will have larger conductance values.

Conductive overburden generally produces broad EM responses which are not plotted on the EM maps. However, patchy conductive overburden in otherwise resistive areas

¹ This statement is an approximation. DIGHEM, with its short coil separation, tends to yield larger and more accurate conductance values than airborne systems having a larger coil separation.



can yield discrete anomalies with a conductance grade (cf. Table II-1) of 1, or even of 2 for conducting clays which have resistivities as low as 50 ohm-m. In areas where ground resistivities can be below 10 ohm-m, anomalies caused by weathering variations and similar causes can have any conductance grade. The anomaly shapes from the multiple coils often allow such conductors to be recognized, and these are indicated by the letters S, H, G and sometimes E on the map (see EM legend).

bedrock conductors, the higher anomaly grades For indicate increasingly higher conductances. Examples: DIGHEM's New Insco copper discovery (Noranda, Canada) yielded a grade 4 anomaly, as did the neighbouring copper-zinc Magusi River ore body; Mattabi (copper-zinc, Sturgeon Lake, Canada) and Whistle (nickel, Sudbury, Canada) gave grade 5; and DIGHEM's Montcalm nickel-copper discovery (Timmins, Canada) yielded a grade 6 anomaly. Graphite and sulfides can span all grades but, in any particular survey area, field work may show that the different grades indicate different types of conductors.

Strong conductors (i.e., grades 5 and 6) are characteristic of massive sulfides or graphite. Moderate conductors (grades 3 and 4) typically reflect sulfides of a less massive character or graphite, while weak bedrock conductors - II-6 -

(grades 1 and 2) can signify poorly connected graphite or heavily disseminated sulfides. Grade 1 conductors may not respond to ground EM equipment using frequencies less than 2000 Hz.

The presence of sphalerite or gangue can result in ore deposits having weak to moderate conductances. As an example, the three million ton lead-zinc deposit of Restigouche Mining Corporation near Bathurst, Canada, yielded a well defined grade 1 conductor. The 10 percent by volume of sphalerite occurs as a coating around the fine grained massive pyrite, thereby inhibiting electrical conduction.

Faults, fractures and shear zones may produce anomalies which typically have low conductances (e.g., grades 1 and 2). Conductive rock formations can yield anomalies of any conductance grade. The conductive materials in such rock formations can be salt water, weathered products such as clays, original depositional clays, and carbonaceous material.

On the electromagnetic map, a letter identifier and an interpretive symbol are plotted beside the EM grade symbol. The horizontal rows of dots, under the interpretive symbol, indicate the anomaly amplitude on the flight record. The vertical column of dots, under the anomaly letter, gives the estimated depth. In areas where anomalies are crowded, the letter identifiers, interpretive symbols and dots may be obliterated. The EM grade symbols, however, will always be discernible, and the obliterated information can be obtained from the anomaly listing appended to this report.

The purpose of indicating the anomaly amplitude by dots is to provide an estimate of the reliability of the conductance calculation. Thus, a conductance value obtained from a large ppm anomaly (3 or 4 dots) will tend to be accurate whereas one obtained from a small ppm anomaly (no dots) could be quite inaccurate. The absence of amplitude dots indicates that the anomaly from the coaxial coil-pair is 5 ppm or less on both the inphase and quadrature channels. Such small anomalies could reflect a weak conductor at the surface or a stronger conductor at depth. The conductance estimate illustrates grade and depth which of these possibilities fits the recorded data best.

Flight line deviations occasionally yield cases where two anomalies, having similar conductance values but dramatically different depth estimates, occur close together on the same conductor. Such examples illustrate the reliability of the conductance measurement while showing that the depth estimate can be unreliable. There are a

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number of factors which can produce an error in the depth estimate, including the averaging of topographic variations by the altimeter, overlying conductive overburden, and the location and attitude of the conductor relative to the flight line. Conductor location and attitude can provide an erroneous depth estimate because the stronger part of the conductor may be deeper or to one side of the flight line, or because it has a shallow dip. A heavy tree cover can also produce errors in depth estimates. This is because the depth estimate is computed as the distance of bird from conductor, minus the altimeter reading. The altimeter can lock onto the top of a dense forest canopy. This situation yields an erroneously large depth estimate but does not affect the conductance estimate.

Dip symbols are used to indicate the direction of dip of conductors. These symbols are used only when the anomaly shapes are unambiguous, which usually requires a fairly resistive environment.

A further interpretation is presented on the EM map by means of the line-to-line correlation of anomalies, which is based on a comparison of anomaly shapes on adjacent lines. This provides conductor axes which may define the geological structure over portions of the survey area. The absence of

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conductor axes in an area implies that anomalies could not be correlated from line to line with reasonable confidence.

DIGHEM electromagnetic maps are designed to provide a correct impression of conductor quality by means of the conductance grade symbols. The symbols can stand alone with geology when planning a follow-up program. The actual conductance values are printed in the attached anomaly list for those who wish quantitative data. The anomaly ppm and depth are indicated by inconspicuous dots which should not distract from the conductor patterns, while being helpful to those who wish this information. The map provides an interpretation of conductors in terms of length, strike and dip, geometric shape, conductance, depth, and thickness (see The accuracy is comparable to an interpretation below). from a high quality ground EM survey having the same line spacing.

The attached EM anomaly list provides a tabulation of anomalies in ppm, conductance, and depth for the vertical sheet model. The EM anomaly list also shows the conductance and depth for a thin horizontal sheet (whole plane) model, but only the vertical sheet parameters appear on the EM map. The horizontal sheet model is suitable for a flatly dipping thin bedrock conductor such as a sulfide sheet having a thickness less than 10 m. The list also shows the

resistivity and depth for a conductive earth (half space) model, which is suitable for thicker slabs such as thick conductive overburden. In the EM anomaly list, a depth value of zero for the conductive earth model, in an area of thick cover, warns that the anomaly may be caused by conductive overburden.

Since discrete bodies normally are the targets of EM surveys, local base (or zero) levels are used to compute local anomaly amplitudes. This contrasts with the use of true zero levels which are used to compute true EM Local anomaly amplitudes are shown in the amplitudes. EM anomaly list and these are used to compute the vertical sheet parameters of conductance and depth. Not shown in the EM anomaly list are the true amplitudes which are used to and conductive compute the horizontal sheet earth parameters.

X-type electromagnetic responses

DIGHEM maps contain x-type EM responses in addition to EM anomalies. An x-type response is below the noise threshold of 3 ppm, and reflects one of the following: a weak conductor near the surface, a strong conductor at depth (e.g., 100 to 120 m below surface) or to one side of the flight line, or aerodynamic noise. Those responses that have the appearance of valid bedrock anomalies on the flight profiles are indicated by appropriate interpretive symbols (see EM map legend). The others probably do not warrant further investigation unless their locations are of considerable geological interest.

The thickness parameter

DIGHEM can provide an indication of the thickness of a steeply dipping conductor. The amplitude of the coplanar anomaly (e.g., CPI) increases relative to the coaxial anomaly (e.g., CXI) as the apparent thickness increases, i.e., the thickness in the horizontal plane. (The thickness is equal to the conductor width if the conductor dips at 90 degrees and strikes at right angles to the flight line.) This report refers to a conductor as thin when the thickness is likely to be less than 3 m, and thick when in excess of 10 m. Thin conductors are indicated on the EM map by the interpretive symbol "D", and thick conductors by "T". For base metal exploration in steeply dipping geology, thick conductors can be high priority targets because many massive sulfide ore bodies are thick, whereas non-economic bedrock conductors are often thin. The system cannot sense the thickness when the strike of the conductor is subparallel to the flight line, when the conductor has a shallow dip, when

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the anomaly amplitudes are small, or when the resistivity of the environment is below 100 ohm-m.

Resistivity mapping

of widespread conductivity are Areas commonly encountered during surveys. In such areas, anomalies can be generated by decreases of only 5 m in survey altitude as well as by increases in conductivity. The typical flight record in conductive areas is characterized by inphase and quadrature channels which are continuously active. Local EM peaks reflect either increases in conductivity of the earth or decreases in survey altitude. For such conductive areas, apparent resistivity profiles and contour maps are necessary for the correct interpretation of the airborne The advantage of the resistivity parameter is data. that anomalies caused by altitude changes are virtually eliminated, so the resistivity data reflect only those anomalies caused by conductivity changes. The resistivity analysis also helps the interpreter to differentiate between conductive trends in the bedrock and those patterns typical of conductive overburden. For example, discrete conductors will generally appear as narrow lows on the contour map and broad conductors (e.g., overburden) will appear as wide lows.

The resistivity profile (see table in Appendix A) and the resistivity contour map present the apparent resistivity using the so-called pseudo-layer (or buried) half space model defined in Fraser (1978)². This model consists of a resistive layer overlying a conductive half space. The depth channel (see Appendix A) gives the apparent depth below surface of the conductive material. The apparent depth is simply the apparent thickness of the overlying The resistive layer. apparent depth (or thickness) parameter will be positive when the upper layer is more resistive than the underlying material, in which case the apparent depth may be quite close to the true depth.

The apparent depth will be negative when the upper layer is more conductive than the underlying material, and will be zero when a homogeneous half space exists. The apparent depth parameter must be interpreted cautiously because it will contain any errors which may exist in the measured altitude of the EM bird (e.g., as caused by a dense tree cover). The inputs to the resistivity algorithm are the inphase and quadrature components of the coplanar coil-pair. The outputs are the apparent resistivity of the

² Resistivity mapping with an airborne multicoil electromagnetic system: Geophysics, v. 43, p. 144-172.

conductive half space (the source) and the sensor-source distance. The flying height is not an input variable, and the output resistivity and sensor-source distance are independent of the flying height. The apparent depth, discussed above, is simply the sensor-source distance minus the measured altitude or flying height. Consequently, errors in the measured altitude will affect the apparent depth parameter but not the apparent resistivity parameter.

The apparent depth parameter is a useful indicator of simple layering in areas lacking a heavy tree cover. The DIGHEM system has been flown for purposes of permafrost mapping, where positive apparent depths were used as a measure of permafrost thickness. However, little quantitative use has been made of negative apparent depths because the absolute value of the negative depth is not a measure of the thickness of the conductive upper layer and, therefore, is not meaningful physically. Qualitatively, a negative apparent depth estimate usually shows that the EM anomaly is caused by conductive overburden. Consequently, the apparent depth channel can be of significant help in distinguishing between overburden and bedrock conductors.

The resistivity map often yields more useful information on conductivity distributions than the EM map. In

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comparing the EM and resistivity maps, keep in mind the following:

- (a) The resistivity map portrays the absolute value of the earth's resistivity.
 (Resistivity = 1/conductivity.)
- (b) The EM map portrays anomalies in the earth's resistivity. An anomaly by definition is a change from the norm and so the EM map displays anomalies, (i) over narrow, conductive bodies and (ii) over the boundary zone between two wide formations of differing conductivity.

The resistivity map might be likened to a total field map and the EM map to a horizontal gradient in the direction of flight³. Because gradient maps are usually more sensitive than total field maps, the EM map therefore is to be preferred in resistive areas. However, in conductive areas, the absolute character of the resistivity map usually causes it to be more useful than the EM map.

³ The gradient analogy is only valid with regard to the identification of anomalous locations.

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Interpretation in conductive environments

Environments having background resistivities below 30 ohm-m cause all airborne EM systems to yield very large responses from the conductive ground. This usually prohibits the recognition of discrete bedrock conductors. The processing of DIGHEM data, however, produces six channels which contribute significantly to the recognition of bedrock conductors. These are the inphase and quadrature difference channels (DIFI and DIFQ), and the resistivity and depth channels (RES and DP) for each coplanar frequency; see table in Appendix A.

The EM difference channels (DIFI and DIFQ) eliminate up to 99% of the response of conductive ground, leaving responses from bedrock conductors, cultural features (e.g., telephone lines, fences, etc.) and edge effects. An edge effect arises when the conductivity of the ground suddenly changes, and this is a source of geologic noise. While edge effects yield anomalies on the EM difference channels, they do not produce resistivity anomalies. Consequently, the resistivity channel aids in eliminating anomalies due to edge effects. On the other hand, resistivity anomalies will coincide with the most highly conductive sections of conductive ground, and this is another source of geologic noise. The recognition of a bedrock conductor in a conductive environment therefore is based on the anomalous responses of the two difference channels (DIFI and DIFQ) and the two resistivity channels (RES). The most favourable situation is where anomalies coincide on all four channels.

The DP channels, which give the apparent depth to the conductive material, also help to determine whether a conductive response arises from surficial material or from a conductive zone in the bedrock. When these channels ride above the zero level on the electrostatic chart paper (i.e., depth is negative), it implies that the EM and resistivity profiles are responding primarily to a conductive upper layer, i.e., conductive overburden. If both DP channels are below the zero level, it indicates that a resistive upper layer exists, and this usually implies the existence of a bedrock conductor. If the low frequency DP channel is below the zero level and the high frequency DP is above, this suggests that a bedrock conductor occurs beneath conductive cover.

Channels REC1, REC2, REC3 and REC4 are the anomaly recognition functions. They are used to trigger the conductance channel CDT which identifies discrete conductors. In highly conductive environments, channel REC2 is deactivated because it is subject to corruption by highly conductive earth signals. Similarly, in moderately conductive environments, REC4 is deactivated. Some of the automatically selected anomalies (channel CDT) are discarded by the geophysicist. The automatic selection algorithm is intentionally oversensitive to assure that no meaningful responses are missed. The interpreter then classifies the anomalies according to their source and eliminates those that are not substantiated by the data, such as those arising from geologic or aerodynamic noise.

Reduction of geologic noise

Geologic noise refers unwanted geophysical to responses. For purposes of airborne EM surveying, geologic noise refers to EM responses caused by conductive overburden and magnetic permeability. It was mentioned above that the EM difference channels (i.e., channel DIFI for inphase and DIFQ for quadrature) tend to eliminate the response of This marked a unique development conductive overburden. in airborne EM technology, as DIGHEM is the only EM system which yields channels having an exceptionally high degree of immunity to conductive overburden.

Magnetite produces a form of geological noise on the inphase channels of all EM systems. Rocks containing less than 1% magnetite can yield negative inphase anomalies caused by magnetic permeability. When magnetite is widely distributed throughout a survey area, the inphase EM channels may continuously rise and fall reflecting variations in the magnetite percentage, flying height, and overburden This can lead to difficulties in recognizing thickness. deeply buried bedrock conductors, particularly if conductive overburden also exists. However, the response of broadly distributed magnetite generally vanishes on the inphase difference channel DIFI. This feature can be a significant aid in the recognition of conductors which occur in rocks containing accessory magnetite.

EM magnetite mapping

The information content of DIGHEM data consists of a combination of conductive eddy current response and magnetic permeability response. The secondary field resulting from conductive eddy current flow is frequency-dependent and consists of both inphase and quadrature components, which are positive in sign. On the other hand, the secondary field resulting from magnetic permeability is independent of frequency and consists of only an inphase component which is negative in sign. When magnetic permeability manifests itself by decreasing the measured amount of positive inphase, its presence may be difficult to recognize. However, when it manifests itself by yielding a negative inphase anomaly (e.g., in the absence of eddy current flow), its presence is assured. In this latter case, the negative component can be used to estimate the percent magnetite content.

A magnetite mapping technique was developed for the coplanar coil-pair of DIGHEM. The technique yields channel "FEO" (see Appendix A) which displays apparent weight percent magnetite according to a homogeneous half space model.⁴ The method can be complementary to magnetometer mapping in certain cases. Compared to magnetometry, it is far less sensitive but is more able to resolve closely spaced magnetite zones, as well as providing an estimate of the amount of magnetite in the rock. The method is sensitive to 1/4% magnetite by weight when the EM sensor is at a height of 30 m above a magnetitic half space. It can individually resolve steeply dipping narrow magnetite-rich bands which are separated by 60 m. Unlike magnetometry, the EM magnetite method is unaffected by remanent magnetism or magnetic latitude.

⁴ Refer to Fraser, 1981, Magnetite mapping with a multicoil airborne electromagnetic system: Geophysics, v. 46, p. 1579-1594.

The EM magnetite mapping technique provides estimates of magnetite content which are usually correct within a factor of 2 when the magnetite is fairly uniformly distributed. EM magnetite maps can be generated when magnetic permeability is evident as indicated by anomalies in the magnetite channel FEO.

Like magnetometry, the EM magnetite method maps only bedrock features, provided that the overburden is characterized by a general lack of magnetite. This contrasts with resistivity mapping which portrays the combined effect of bedrock and overburden.

Recognition of culture

Cultural responses include all EM anomalies caused by man-made metallic objects. Such anomalies may be caused by inductive coupling or current gathering. The concern of the interpreter is to recognize when an EM response is due to culture. Points of consideration used by the interpreter, when coaxial and coplanar coil-pairs are operated at a common frequency, are as follows:

Channels CXS and CPS (see Appendix A) measure 50 and
 60 Hz radiation. An anomaly on these channels shows

that the conductor is radiating cultural power. Such an indication is normally a guarantee that the conductor is cultural. However, care must be taken to ensure that the conductor is not a geologic body which strikes across a power line, carrying leakage currents.

- II-22 -

- 2. A flight which crosses a line (e.g., fence, telephone line, etc.) yields a center-peaked coaxial anomaly and an m-shaped coplanar anomaly.⁵ When the flight crosses the cultural line at a high angle of intersection, the amplitude ratio of coaxial/coplanar (e.g., CXI/CPI) is 4. Such an EM anomaly can only be caused by a line. The geologic body which yields anomalies most closely resembling a line is the vertically dipping thin dike. Such a body, however, vields an amplitude ratio of 2 rather than 4. Consequently, an m-shaped coplanar anomaly with a CXI/CPI amplitude ratio of 4 is virtually a guarantee that the source is a cultural line.
- 3. A flight which crosses a sphere or horizontal disk yields center-peaked coaxial and coplanar anomalies with a CXI/CPI amplitude ratio (i.e., coaxial/coplanar) of 1/4. In the absence of geologic bodies of this geometry, the most likely conductor is a metal roof or

5 See Figure II-1 presented earlier.

small fenced yard.6 Anomalies of this type are virtually certain to be cultural if they occur in an

area of culture.

- 4. A flight which crosses a horizontal rectangular body or wide ribbon yields an m-shaped coaxial anomaly and a center-peaked coplanar anomaly. In the absence of geologic bodies of this geometry, the most likely conductor is a large fenced area.⁶ Anomalies of this type are virtually certain to be cultural if they occur in an area of culture.
- 5. EM anomalies which coincide with culture, as seen on the camera film, are usually caused by culture. However, care is taken with such coincidences because a geologic conductor could occur beneath a fence, for example. In this example, the fence would be expected to yield an m-shaped coplanar anomaly as in case #2 above. If, instead, a center-peaked coplanar anomaly occurred, there would be concern that a thick geologic conductor coincided with the cultural line.

⁶ It is a characteristic of EM that geometrically identical anomalies are obtained from: (1) a planar conductor, and (2) a wire which forms a loop having dimensions identical to the perimeter of the equivalent planar conductor.

6. The above description of anomaly shapes is valid when the culture is not conductively coupled to the In this case, the anomalies arise from environment. inductive coupling to the EM transmitter. However. when the environment is guite conductive (e.g., less than 100 ohm-m at 900 Hz), the cultural conductor may be conductively coupled to the environment. In this latter case, the anomaly shapes tend to be governed by current gathering. Current gathering can completely distort the anomaly shapes, thereby complicating the identification of cultural anomalies. In such circumstances, the interpreter can only rely on the radiation channels CXS and CPS, and on the camera film.

TOTAL FIELD MAGNETICS

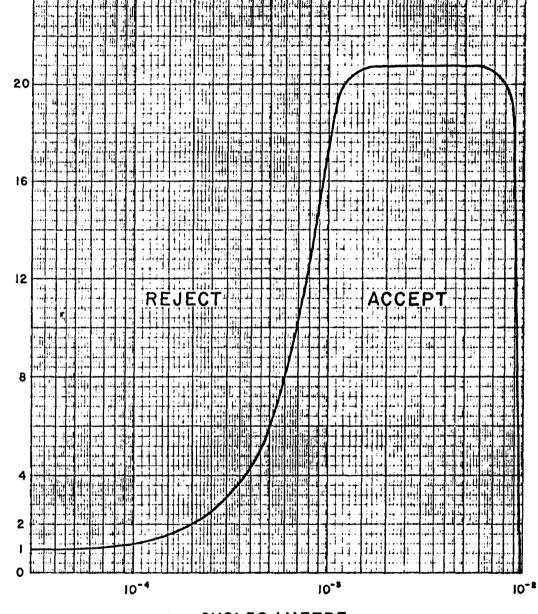
The existence of a magnetic correlation with an EM anomaly is indicated directly on the EM map. An EM anomaly with magnetic correlation has a greater likelihood of being produced by sulfides than one that is non-magnetic. However, sulfide ore bodies may be non-magnetic (e.g., the Kidd Creek deposit near Timmins, Canada) as well as magnetic (e.g., the Mattabi deposit near Sturgeon Lake, Canada).

magnetometer data are digitally recorded The in the aircraft to an accuracy of one nT (i.e., one gamma). The digital tape is processed by computer to yield a total field magnetic contour map. When warranted, the magnetic data also may be treated mathematically to enhance the magnetic response of the near-surface geology, and an enhanced magnetic contour map is then produced. The response of the enhancement operator in the frequency domain is illustrated in Figure II-2. This figure shows that the passband components of the airborne data are amplified 20 times by the enhancement operator. This means, for example, that a 100 nT anomaly on the enhanced map reflects a 5 nT anomaly for the passband components of the airborne data.

The enhanced map, which bears a resemblance to a downward continuation map, is produced by the digital bandpass filtering of the total field data. The enhancement is equivalent to continuing the field downward to a level (above the source) which is 1/20th of the actual sensorsource distance.

Because the enhanced magnetic map bears a resemblance to a ground magnetic map, it simplifies the recognition of trends in the rock strata and the interpretation of AMPLITUDE

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CYCLES/METRE



Frequency response of magnetic enhancement operator.

geological structure. It defines the near-surface local geology while de-emphasizing deep-seated regional features. It primarily has application when the magnetic rock units are steeply dipping and the earth's field dips in excess of 60 degrees.

MAPS ACCOMPANYING THIS REPORT

Twelve map sheets accompany this report:

Electromagnetic Anomalies Resistivity Total Field Magnetics Enhanced Magnetics 3 map sheets 3 map sheets 3 map sheets 3 map sheets

Respectfully submitted, DIGHEM LIMITED

A SCI

D.C. Fraser President

APPENDIX A

THE FLIGHT RECORD AND PATH RECOVERY

Both analog and digital flight records were produced. The analog profiles were recorded on chart paper in the aircraft during the survey. The digital profiles were generated later by computer and plotted on electrostatic chart paper at a scale of 1:15,840 The digital profiles are listed in Table A-1.

In Table A-1, the log resistivity scale of 0.03 decade/mm means that the resistivity changes by an order of magnitude in 33 mm. The resistivities at 0, 33, 67, 100 and 133 mm up from the bottom of the digital flight record are respectively 1, 10, 100, 1,000 and 10,000 ohm-m.

The fiducial marks on the flight records represent points on the ground which were recovered from camera film. Continuous photographic coverage allowed accurate photo-path recovery locations for the fiducials, which were then plotted on the geophysical maps to provide the track of the aircraft.

The fiducial locations on both the flight records and flight path maps were examined by a computer for unusual helicopter speed changes. Such speed changes may denote an error in flight path recovery. The resulting flight path locations therefore reflect a more stringent checking than is normally provided by manual flight path recovery techniques.

Table A-1. The Digital Profiles

Channel		Scale
Name (Freq)	Observed parameters	<u>units/mm</u>
MAG	magnetics	10 nT
ALT	bird height	3 m
CXI (900 Hz)	vertical coaxial coil-pair inphase	1 ppm
	vertical coaxial coil-pair quadrature	1 ppm
CXS (900 Hz)	ambient noise monitor (coaxial receiver)	1 ppm
CPI (900 Hz)	horizontal coplanar coil-pair inphase	1 ppm
CPQ (900 Hz)	horizontal coplanar coil-pair quadrature	1 ppm
	ambient noise monitor (coplanar receiver)	1 ppm
	horizontal coplanar coil-pair inphase	1 ppm
CPQ (7200 Hz)	horizontal coplanar coil-pair quadrature	1 ppm
	Computed Parameters	5
DIFI (900 Hz)	difference function inphase from CXI and CPI	1 ppm
	difference function quadrature from CXQ and CPQ	1 ppm
REC1	first anomaly recognition function	1 ppm
REC2	second anomaly recognition function	1 ppm
REC3	third anomaly recognition function	1 ppm
REC4	fourth anomaly recognition function	1 ppm
CDT	conductance	1 grade
RES (900 Hz)	log resistivity	.03 decade
RES (7200 Hz)	log resistivity	.03 decade
DP (900 Hz)	apparent depth	3 m
DP (7200 Hz)	apparent depth	3 m
FEO% (900 Hz)	apparent weight percent magnetite	0.25%

AA DCF-416(A)

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APPENDIX B

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EM ANOMALY LIST

				AXIAL)0 HZ		LANAR DO HZ		LANAR DO HZ	. VER			20ntal Set	CONDUC EAR	
				QUAD PPM		QUAD PPM			. COND . MHOS	DEPTH*	COND MHOS		RESIS OHM-M	depth M
LI	NE	1	(I	LIGHI	. 3))			•					
A	360	S	2	6	0	16	36	129	. 1	Ο.	. 1	16	316	0
В	356		3	10	0	24	47	212		Ο.	. 1	10	336	0
D	350		2	4	0	16	25	127		0.		11		0
E	323	в	21	8	20	10	41	8	• 35	23 .	4	108	11	85
LI	NE	2	(1	LIGHI	: 3)	1			•	•				
B	394		4	4	0		13	75	. 1	0	1	11	772	0
D	411		6		0		2	10		50 .		195		Õ
Е	413	в	0	1	10	2	14	13	. 18	53	7	139	5	121
H	421	S	6	1	2	8	14	66	. 1	Ο.	1	7	903	0
									•	•	,			
LI		_3		LIGHI			~~	174	•		•	10	220	•
B C	490 488		0	8 10	0 1	-	63 88	174 202		0.		13 14		0
D	456		0	7	0	16	35	134		0.		8		0
E	446		4	1	5	2	11	3		50		187		153
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LI	NE	4	(I	LIGHI	3)				•					
С	530		1	3	2	9	27	76	. 1	Ο.	. 1	17		0
D	539		1	_	1		5	20		Ο.		18	1833	0
E	549	B	1	2	9	3	13	46	. 13	57	8	161	3	146
LI		 5	/1	LIGHT	· 3)				•	•				
	624		0	0	. 3, 1		2	6	. 1	7	. 1	67	3097	9
	603		ŏ				10	62	•	, , 0 .		10	1116	0
Ē	598		1	4	1	10	32	89		0.		15	406	Õ
									•		,			
LI		6	•	LIGH					•					
A	638		0	2	0		13	56		Ο.		9		0
	654		0	1	2	2	6	30		0.		19		0
D	680	S	5	1	2	1	3	18	• 1	0.	1	7	2567	0
т.т	NE	 7	(3	FLIGHT	· 3)	1			•	•				
	720		,	1	. 3,		18	18	. 1	7.	. 1	90	98	67
	· · · · · · · · · · · · · · · · · · ·								•		•			
LI	NE	9	(1	FLIGHT	: 3))			•		,			
	866		0	1	1		24	64						0
	862		0	2	0	8	9	75		0.		0		0
	838		4	0	1	0	3	0	• 8	91 .	, 1	203	538	153
				PT TOUS	וכ ו				•		•			
А	NE 877		-	FLIGHI 1	י 3) 2	3	9	30	. 1	0	1	17	1108	0
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202 STURGEON LAKE

				AXIAL DO HZ		LANAR DO HZ		LANAR)0 Hz			FICAL . IKE .		zontal Eet	CONDU EAR	
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				PPM		PPM		PPM				MHOS		OHMM	м
 1.1	INE	11	()	LIGHT	· 3)				•		•				
	1049		2		0		9	47		1	0.	. 1	6	1171	0
С	1036	S	2	4	0	10	27	93	•	1	Ο.	. 1	8	509	0
Ε	1028	S	2	0	0	0	1	2	•	1	46 .	1	146	7459	21
	 I NE	12	0	LIGHT	· 3)	ł			•						
	1102		3	2	0		12	88		1	. 0.	1	2	1105	0
	1107		Ō		0		42	132		1	0.			356	Ő
Е	1112	S	2	2	1	2	11	35	•	4	45 .	1	159	1035	0
	1118	S	4	2	2	7	28	57	•	1	0.	1	17	347	0
	INE	13	(1	LIGHI	· 3)				•		•	•			
	1230		0	3	0		8	70		1	0.	1	7	1411	0
	1228		Õ				8			1	0				Ő
	1185		4	1			6			1	0			1626	0
I	1180	S	1	2	0	2	7	34	•	1	0.	1	9	1378	0
	 (NE		/1	LIGHT	יכי				٠			,			
	1286	14	-		: 3) 0		6	58	•	1	0	1	3	1730	0
	1305					-	72			1	0.				
	1342		Ő				18	125		1	0.		7		0 0
									•			•			
		15		FLIGHT	-			~ ~	٠			, 			
	1552		3		2 4		-	60		1	0.		4		
	1533 1505		0 4	3			22 17	114 68		1	0.	1 1	10 8		0 0
			-		•	,	.,	00		•		• •	Ũ	723	Ŭ
\mathbf{L}	INE	17	()	FLIGHT	: 3))			•			,			
	1940		0	4			43	115		1			5		0
	1915				0		20	100		1	0.				0
	1888		0	2	0	-	5	64		1	0		•		0
G 	1867	s 	1	3	0	5	11	47	•	1	0 .	. 1	15	988	0
\mathbf{L}	INE	18	(1	FLIGHT	. 3)						,			
С	1988	S	1	1	0	2	8	24	•	1	6.	. 1	50	1062	15
D	1996	S	1	2	0	4	6	44	•	1	0	. 1	9	1798	0
	2031		50	9	83	14	103	5		184	6 .	. 11	95	2	84
I	2043	S	0	3	, 0	11	15	88	٠	1	0	. 1	16	720	0
L	INE	19	0	FLIGHT	r 3)			•		•	•			
	2867		0	2	2	, 8	21	78	•	1	0	. 1	6	597	0
	2854		2		1	5	15	49		1	0	1	14		0
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202 STURGEON LAKE

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LINE 19 E 2850 S	(F 4	LIGHT 1	3) 2	4	12	24	•	1	0.	1	26	608	0
LINE 20	(F	LIGHT	3)				•		•				
A 2919 S		7	2	24	69	193	•	1	ο.	1	· 9	225	0
C 2929 S			1		6			1			32	1056	0
D 2935 S			1		7			1	ο.		18	1154	0
E 2941 S	4	2	2	4	12	41	•	1	Ο.	1	20	785	0
T TND 101	(Tr	TTOUM	21				•		•				
LINE 101	•	LIGHT			•	•	٠		· ·		100		
A 1388 B?	2	1	4	1	8	8	•	1	36.	1	106	445	70
LINE 102	/F	LIGHT	3)				•		•				
A 1466 B		1	5		17	8	•	17	54.	3	174	19	142
E 1445 S		1.		0	5	10		1	0.			567	72
	-	• ·	•	•	•			•					, 2
LINE 105	(F	LIGHT	3)						•				
A 2078 B		6		9	40	15	•	36	22 .	4	111	11	87
C 2094 S	0	1	0	1	4	14	•	1	16.	1	58	1752	18
D 2100 B	0	2	0	5	15	27	•	1	4.	1	51	483	21
وي وي وي بين بين البر البر البر البر							•		•				
LINE 106	•	LIGHT	,				•		•				
A 2162 S		2		0	4			1	0.	1	100		
B 2152 B				9	. 42	8		25	19.		124		92
	1	1	, 0	0	2	8	٠	1	0.	1	53	6910	0
	15	TAUM	21				•		•				
LINE 107 A 2195 L	•	LIGHT 2	3) 2	1	19	24	•	1	10.	2	113	10	105
A 2195 D	U	2	2		13	44	•		10 •	2	113	10	105
LINE 108	(F	LIGHT	3)						•				
D 2260 L	•				21	45		2	18	1	141	174	85
	•		•	•				-		•	• • •		•••
LINE 109	(F	LIGHT	3)						•				
F 2296 L	5	2	1	2	10	27	•	14	60 .	1	205	877	53
							•		•				
LINE 110	(F	LIGHT	3)				٠		•				
C 2350 L	1	1	0	1	13	19	•	1	15 .	1	133	47	114
							٠		•				
LINE 111		LIGHT	-		~		٠				~~	1010	~
C 2391 L	0	1	2	1	8	44	٠	1	0.	1	33	1213	0

.* ESTIMATED DEPTH MAY BE UNRELIABLE BECAUSE THE STRONGER PART .

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

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. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS.

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в	114		Ō	1	Ō	1	3	12		1	0.		21	5002	0
С	126	5 8	0	1	0	3	6	28	•	1	Ο.	1	14	1565	0
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B		7 B?		2	. 3, 3	8	20	80	•	1	0	, , 1	19	626	0
E	222		0	. 8	0	25	77	159		1	0		10	172	0
F	220		3		- 0	25	77	159		1	0	1	117	1035	0
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B B	INE 256	203	() 6	FLIGHI 19	: 3) 12	53	183	165	•	3	0	, . 1	16	32	4
F	273		0	10	0	30	144	173		2	0		13		
G	293		ŏ	,0	ŏ	31	108	225		ĩ	Õ,		.5		Ő
н	296		Ō	.9	.0	28	57			1	Ō.		5		Õ
I	303		Ō	2	Ō	5	3			1	0	_	Ō		0
J	309		0	1	0	2	0		•	1	0	. 1	40	5748	0
									•		ı	•			
	INE 396	204	(. 8	FLIGHI 18	-	33	42	178	•	3	0	. 1	32	86	
A	390		2		8 5		42 52	71		2	9.	. 1	52 68	179	4 25
B G	376		2 6	20	5	56	240			2	0	· ·	15		25 0
H	362		2		1		240			1	0.		19	1513	0
I	358		Õ		1	5	7		•	1	3	. 1	97		0 0
ĸ	350		Ő	1	o	4	7		-	1	ō.	1	157		Õ
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	INE	205		FLIGHT	•			• •	•	_		•			
A	408		5	-		27	133	36		5	9,	, 1	29	111	0
D	415		0			21	99	121	-	1	0,	• I	16	494	0
F		I S	3 0		2	28	134	140		2	0		17	56	4 0
H					0	18	53	132 183		1	0.	. 1	9 43	259 749	0
L M			4	9 4	0 0	24 15	61	110		1	0		34		0
N		3 S?	-		0	3	0			1	0				
									•			•			
L.	INE		()	FLIGHT					•			•			
A		7 S	6		5		26			2	2				0
	590		0			55	222			1	0		0	- · ·	0
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H			7			146	650			2	0		6 10		
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		* ES	TIMA	TED DE	SPTH I	MAY BI	E UNR	ELIABL	e beg	CAUSE	THE	STRON	GER PA	RT .	

* ESTIMATED DEPTH MAY BE UNRELIABLE BECAUSE THE STRONGER PART . . OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

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				XIAL O HZ		ANAR 0 HZ		LANAR DO HZ		VERTI DIM			zontal Set	CONDUC	
AN	OMAL	x/ 1	REAL	QUAD	REAL	QUAD	REAL	QUAD	•	COND I	• DEPTH*•	COND	DEPTH	RESIS	DEPTH
			PPM	PPM	PPM	PPM	PPM			MHOS		MHOS		OHMM	м
									•		•				
	NE	206		LIGHT			<u>,</u>	10	٠	•		4		6070	•
N 	538	5	0	1	0	1	2	10	•	1	0.	1	33	6079	0
LI	NE	207	(F	LIGHT	3)				:		•				
В	617		2	5	2	14	80	63		3	ο.	1	20	54	6
D	622	B?	2	15	1	38	127	141		2	ο.	1	24	63	10
G	645	S	0	4	0	8	14	67		1	Ο.	1	10	892	0
H	647		1	4	0	9	24		•	1	ο.	1	14	517	0
J	654		4	1	0	2	3	31	٠	1	Ο.	1	25	2814	0
L	660		6	2	0	2	3		٠	1	0.	-	0	3219	0
0	679		0	5	0	18	53	139		1	0.		14	606	0
P	687		0	6	0	12	22	97		1	0.	1	30	717	0
R	695		0	10	0.	33	160	196	•	2	0.	1	10	64	0
	NE	208	18	LIGHT	3)				•		•				
A	787		2	13	3	32	144	189		1	0.	1	19	193	0
c	781		1	13	1	30	107	165		1	0.	•	28	99	12
L	730		Ð	1	0	7	9	60		1	Ο.	1	9	1255	0
0		B?	2	3	0	10	15	88	•	2	16.	. 1	41	749	0
									•						
	NE	209		LIGHT					٠				. –		-
B	825		0	5	0	17	60	124		1	0.		17	616	0
Е	879		0	2	0	4	0	55	٠	1	Ο.	. 1	0	2521	0
			/12	TOUM	21				•		•				
	NE 1000	210	(r 1	LIGHT 5	3) 3	8	61	144	٠	2	10	1	23	435	0
В	997		2	13	3	30	138	195		1	0.	. 1	4	431	0
	992		Ő	11	3	41	198	237		1	0.	1	1	367	0
D	987		0	13	2	47	177	344		1	0,	. 1	1		0
Ē	981		1	21	1	57	209	427		1	1.	1	, O	313	ŏ
F			•	- 7		27	91	187		1	0.	1	16		0
				-	-				•			•	-	-	
\mathbf{PI}	NE	211	(F	LIGHT	3)				•			,			
Α	1021	B?	0	20	4	48	139	172	•	1	Ο.		-		0
В	1026	5 S	0	5	2	́В	23	75	•	2	7.	. 1	17	626	0
D	1028	8 S	0	3	2	11	49	99	•	1	Ο.	. 1	30	432	0
	1033		0	3	0	7	27			1	0 .		52		
I	1070) ន	0	0	0	2	1	27	•	1	0.	. 1	3	4069	0
	· ·								٠		•	•			
	INE			LIGHT	-		40	404	•	4.	~	•		200	~
	1236		07	4 22		12 65	43 199				0.		20 0		0
Ď	1229	, D(1	22	3	00	177	120	•	2			U	304	U
		ES	TIMAT	ED DE	PTHN	AAY B	E UNR	ELIAB	LE	BECAU	SE THE	STRON	GER PA	RT .	

.* ESTIMATED DEPTH MAY BE UNRELIABLE BECAUSE THE STRONGER PART . . OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

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		XIAL 0 HZ		LANAR)0 Hz		LANAR Do Hz			NCAL KE		zontal Eet	CONDUC EAR	
ANOMALY/ F	REAT.	OUAD	REAT.	OUAD	REAL	OULAD	•	COND	DEDTH*	. COND	חדסדת	PESTS	DEDTH
FID/INTERP		PPM	PPM	PPM	PPM			MHOS		. MHOS		OHM-M	M
								raiob	••		••	0141 11	5.0
LINE 212	(F	LIGHT	3))			•			•			
D 1225 S	2	10	9	33	145	203	•	2	0	. 1	15	79	1
F 1218 S	0	0	0	1	5	12	•	1	33	. 1	204	1035	0
J 1195 S	2	0	0	1	0	17		1	0	. 1	44	6009	0
K 1193 B?	3	2	0	10	17	91	•	1	0	. 1	17	795	0
L 1189 S?	0	1	0	5	11			1	0		12	1099	
M 1186 S	1	2	0	4	5	43	•	1	0	. 1	7	2110	0
							٠			•			
LINE 213	•	LIGHT	•				•	_		•			
A 1256 S?	4	5	2	18	92	113		2	0		19	81	3
C 1268 B?	0	8	0	30	99	93		2	0		18	53	4
D 1272 S	4	6		16	66	125		1	0			178	0
E 1282 S?	0	5	1	11	40	80		1	0	. 1		736	0
H 1309 S	1	13	3	53	254		•.	1	0	• 1	0	322	0
I 1313 S	1	3	0	10	24	61	٠	1	0	• 1	21	516	0
TTND 014	/ 1	LIGHT					•			•			
LINE 214	•		•		50	120	•		•	•	95	150	•
B 1406 B? E 1396 S?	0	11	8	28	53	139		1	0	. 1	25	153	8
I 1384 S?	6 0	4 13	1 8	19 37	61 138	152 82		1	0 5			230 413	0 0
J 1382 S?	0	21	2	56	238	318		1	0		ó	277	0
K 1377 S	3	3	7	11	33	24		2	17	-	76	83	56
N 1370 S?	0	9	Ó	26	5			1	0			511	0
P 1362 S?	1	3	1	- 6	21			1.			12	552	ŏ
R 1354 S	2	3	0 0	6	20	61		1	ŏ		25	589	
S 1350 S	õ	7	Ď	21	101	150		i	Õ		1	490	ŏ
	v	,		~ .		150		•	v	• •	•	470	Ŭ
LINE 215	(1	LIGHT	3)							•			
A 1444 S	1	4	1	8	25	67	•	1	0	. 1	23	410	0
C 1449 S	3	8	1	22	81			1	0	. 1		110	0
F 1467 S		1	Ó					1	0	. 1		6627	0
J 1505 S	0	4	0	12	43	95		1	0	. 1	9	268	0
							•			•			
LINE 216	(1	LIGHT	3))			•			•			
A 1612 S?	6	3	0	8	24	60	•	1	0	. 1	25	526	2
B 1609 S?	4	5	0	13	34	118	•	1	0	. 1	20	419	0
E 1599 S?	0	3	0	8	27	71	٠	1	0	. 1	21	419	0
F 1579 S	1	15	0	40	151	252	•	1	0	• 1	8	99	0
G 1576 S	0	18	0	12	193	64	٠	11	0	• 1	10	70	0
J 1562 S	0	3	0	11	26	92	٠	1	0	• 1	21	506	0
K 1551 S?	3	4	0	12	23	97		1	0	. 1	18	617	0
L 1542 S	1	18	0	51	237	304	•	1	0	. 1	0	343	0
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									JSE THE				

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

				AXIAL DO HZ		LANAR)0 HZ		LANAR DO HZ					zontal Eet	CONDUC	
				QUAD PPM				QUAD PPM			DEPTH*	COND MHOS		RESIS Ohm-m	DEPTH M
	NE 1536		•	FLIGHI 12	r 3) 1		142	134	•	3	0	. 1	18	53	5
т.т	NE	217	' ()	FLIGHI	: 3)	I			•			•			
	1673		2		0	11	25	108	•	1	0	. 1	13	578	0
В	1675	S	2	3	0	7	11	72	•	1	0	. 1	14	1146	0
С	1682	S	2		4		23	155	•	1	0	. 1	3	327	0
	1684		4	2	7			94		2	1 4		14	203	0
	1698		5		4	55	270	270		3	0		17		6
G	1710	S	0	1	0	0	0	12	•	1	0	. 1	22	5687	0
LI	NE	218	. 0	FLIGHT	: 3)	I			:			•			
	1761		1	10	1		195	147	•	4	0	. 1	15	137	0
	1750		0	8	0	22	58	167	•	1	0	. 1	10	269	0
	1746		6	8	6	37	180	82	٠	3	1		9	284	0
	1743		6	1	10	46	61	61		4	10		15	136	0
	1738		4		4	39	200	93		2	0		16	526	0
	1729		7 2		12	108	476	410		4	0.		18 5	20	10
1	1719		, 2	12	0	31	104	233	•	1	U	. 1	5	152	0
LI	NE	301	0	FLIGHT	r 2))			•						
В	72	S	1	18	3	53	254	302	•	1	0	. 1	3	297	0
С	73	S	2	17	3	31	162	302	•	1	. 0	. 1	12	51	0
Е		S	0		1		114	196		1	0	• •	9	112	0
I		S	13		7	43	201	191		3	0		12	35	0
J	95		3		4	33	125	160		2	0	- •	15	50	
K	103	B	0	19	3	28	100	136	٠	2	0	. 1	17	529	0
LI	NE	302	20	FLIGHT	r 2)							•			
A	166		- (,		37	87		1	0	. 1	20	342	0
F	148		2		2	7	19	54		1	Ō		23	575	Ō
G	137	В	0	16	3	38	108	105	٠	2	0	. 1	4	438	0
	NE	303	- 1 1	FLIGHT	r 2)				•			•			
A		5 5?			3	40	187	238		1	0	. 1	6	409	0
c	191		0	3	Ō	8	29	83		1	0	. 1	14	441	
D	211		-	-	2	13	52	84		1	Ō	• 1	29	744	
F	218	B	0	15	9	26	93	133	•	3	0	. 1	14	558	. 0
J	229	S	0	3	2	17	87	85	•	2	0	• 1	12	66	0
	·		•						•			•			
А	NE 288) (. 4	FLIGH7 1	r 2) 1) 3	22	16	•	2	0	•	36	148	12
n	200			i	1	5	~~~	10	•	e	v	• 1	50		16
		ES	TIMA	TED DE	SPTH I	AAY BI	E UNR	ELIABI	LE I	BECA	USE THE	STRON	GER PAI	RT .	
	•										NE SIDE			HT .	

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS.

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				AXIAL)0 HZ		LANAR)0 HZ		LANAR DO HZ			FICAL		zontal Eet	CONDUC	
AN	OMAL	Y/ 1	REAL	QUAD	REAL	QUAD	REAL	QUAD		COND	DEPTH*.	COND	DEPTH	RESIS	DEPTH
FID,	/INT	ERP	PPM	PPM	PPM	PPM	PPM	PPM	•	MHOS	м.	MHOS	М	OHM-M	M
									٠		•	•			
LI C	NE 274	304	() 1	FLIGHI 1	· 2) 1		4	30	•	1	0	, 1	17	2171	0
E	262		0	10	, o		57	130		1	0	-	17	227	0
F	256		16	7	2	30	140	215		7	9.		7	479	õ
G	252	B?	0	5	1	6	17	50		1	10	. 1	74	886	0
I	244	S	0	0	2	1	3	15	•	1	0.	. 1	19	3033	0
									•		,	•			
	NE		•	FLIGHT	-		20	F 2	٠	4	•	•	4 7	240	•
B	316		0	3	9		29	53		1	0	. 1	17	249	0
D E	320 323		0	7 6	3 0	22 22	33 56	136 136		1	0 a 20 a	· 1	29 19	343 506	6 0
F	323		•	10	0	22	20 78	145		* 3	20 0	• •	19	500	0
Ğ	328		0	10	1	21	35	145			0	. 1	9	363	0
			v	10				140	:	•			2	505	Ŭ
LI	NE	306	()	FLIGHT	2)			•			•			
A	416	S ?	1551	1	1	6	29	38		1	0 .	. 1	32	208	9
С	411		3	10	2	29	118	201		1	0	. 1	14	105	0
D	399		3	3	6	6	21	31		7	25 .	. 2	137	54	96
Е	396		0	2	0	7	21	53		1	0	. 1	44	268	19
F	388			3	2	13	33	78		1	0	. 1	23	299	0
I	368		0	1	1	0	6	5	٠	1	32	. 1	139	227	105
LI		307	/1	FLIGHT	2				•		ı	•			
B	428		2	4	. 2, 1	, 17	60	123	:	1	0	. 1	13	197	0
D	441		0	- 1	2	3	14	29		1	0	. 1	46	746	13
F	448		ŏ	5	0	13	22	59		6	31	. 1	42	704	0
ĸ			-	1550	4	2	11	7		2	24	. 1	117	120	90
					,						,	•			
LI		308	()	FLIGHT	r 2)				٠			•			
Α	565		4		1		86	135	٠	1	0	. 1	17	90	2
	562		5		1		112		•	2	-	• 1	7	481	0
C	556		1	6	0	16	63	134		1	0	• 1	18	220	0
D	550		2	24	2	60	280	370		1	0.	• 1	0	290	0
F	543		0	14	2	34	139	220		2	0	. 1	15 11	73 479	2 0
I N	518 499		0 0	8 7	0	27 23	67 99	73 168		1	0	. 1	12	112	0
0	490		6	3	15	6	31	7		26	26	. 5	129	9	106
			v	5	10	v	5,	,		20			.25		100
LI	NE	309	(1	FLIGHT	r 2)			•			•			
В	577	S	3		2		131	231	•	1	0	. 1	21	66	6
С	581	S	1	14	0	26	68	218	•	1	0	. 1	12	184	0
D	590	S	7	63	15	167	743	155	•	1	0	. 1	5	121	0
	•													•	
	•*										USE THE				
	•	OF	THE	CONDU	JCTOR	MAY	BE DE	EPER (DR	TO OI	NE SIDE	OF TH	E FLIGH	IT .	

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT . . LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

J

				AXIAL DO HZ		ANAR 0 HZ		LANAR)0 HZ			ICAL		ZONTAL EET	CONDUC EAR	
			REAL PPM	QUAD PPM	REAL PPM	QUAD PPM	REAL PPM			COND MHOS	DEPTH*. M	COND MHOS		RESIS OHM-M	depth M
T.T	ne Ne	309	(1	LIGHT	2)				•		•	•			
F	594		11	66	22	210	723	708	:	4	0.	1	11	16	4
ī	603		5	10	0	23	105	158		2	0.		26	685	0
ĸ	610		Ō	7	Õ	9	18	72		1	ŏ.		22	383	Ō
L	613		1		0	9		79		1	Ο.	. 1	24	561	0
М	624	S ?	0	3	2	11	30	96	•	8	40 .	. 1	87	886	6
Q		S ?	0	-	0	20	53	166		1	0.	. 1	8	286	0
т	660	S?	7	1	1	3	16	39	•	1	Ο.	, 1	31	408	2
									٠			•			
	NE 799		(1 2	FLIGHT 17	2) 6	42	184	212	•	2	0	. 1	15	57	2
A C	794		6		6	42	159	212		2	0.		15	57	3
F	783		0		0	- 57 - 60		367		1	0.		0	297	ó
Н	772		5		2	57	250	369		1	0		Ő	335	Ő
J	755		Ō	9	2	17	35	127		1	0		19		
ĸ	748		1		Ō	1	1	23		1	0		0		
L	745		1	2	Û	4	4	38	٠	1	0.	. 1	0	2388	0
									•		•	•			
	NE			LIGHT	-				•	•		•			•
B		S?	6	11	4	34	70	43		3	0.		29	266	0
D G	825	5 5?	4 0	19 16	0	46 42	148 185	206 222		1	0.		0 3	332 355	0 0
J		S?	-	12	0	22	93	153		1	0				6
K	853		1	21	5	53	240	212		1	0				Ő
L	857		6	0	5	36	202	103		3	9				ů 0
M	862		Ō		Õ	21	66	71		2	Ő.		8	186	Ő
0	871		0	1	1	2	9	10		1	31	. 1	57	839	22
Q	876	5?	0	4	0	11	37	76	•	1	0 .	. 1	21	305	0
									٠			•			
		312		FLIGHT					٠			•			-
	1014		0	3	0	7		58		1	0	. 1	27	451	3
	1008		2	5	2	25	57	95		1	0.	• 1	21	84	6 3
	1005		1 0	12 1	2 0	34 3	159 7	200 27		2 1	0	. 1 . 1	17 32	65 1369	
F	987		0	2	0	4	11	29		1	6	• r . 1	43		
H		S?		13	ŏ	32	108	125		2	0	. 1	28	85	
ĸ	976		Ő	1	ŏ	18	104	119		1	Õ	. 1	7		
M			Ō	6	0	20	81	130		1	0	. 1	15		
0	966		0	6	0	17	75	74		2	0	. 1	21	83	
									٠		•	•			
	NE			FLIGHT					٠		-	•		40=-	~
A	1078	5?	0	1	0	2	4	19	٠	1	0	. 1	23	1977	0
	. 1										USE THE NE SIDE				

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT . . LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

		AXIAL)0 HZ		LANAR)0 Hz		LANAR 00 Hz			IKE		zontal Eet	CONDU EAR	
ANOMALY/ I FID/INTERP			REAL PPM			QUAD PPM				COND MHOS		RESIS OHM-M	DEPTH M
LINE 314	()	LIGHT	2)				•		•				
A 1184 S	0	5 S	0		52	81	:	1	0.	1	27	194	7
B 1179 S	0	4	0	12	48	87		1	0	-		222	4
D 1170 S	2	20	9	58	169	176		1	0.		10	172	Ō
F 1161 S	0	. 9	0	27	115	198	•	1	0.	. 1	7	113	0
G 1154 S?	4	2	1	3	14	11	•	9	50.	. 1	136	1035	0
I 1149 S	3	5	1	16	5 9	121		1	Ο.	, 1	9	162	0
J 1140 S?	3	0	0	0	7	4	٠	2	50.	1	130	366	93
LINE 315	(1	LIGHT	2)	1			•		•	۱ ۱			
A 1209 S	1	12	2		135	162		1	0.	. 1	12	402	0
B 1215 S	1	19	3	43	188	247		2	0.			52	5
C 1222 S?	1	5	0	. 7	21	63		1	1 .	. 1	31	337	9
E 1237 S?	8	4		8	24	30	•	14	40 .	2	85	28	58
G 1251 S?	2	6	8	13	36	83	•	3	13 .	. 2	73	48	42
LINE 316	/1	LIGHT	2)				٠		•	,			
A 1308 S	1 1	6	1		77	65	•	2	0) 1	16	71	1
B 1305 S	1	5	0		80	97		2	0.	-	15	101	0
C 1295 S	0	8		23	75	50		3	1.		12	63	Ő
E 1282 S	1	3	7	9	29			1	0		26		4
F 1275 S	1	Ő	3	2	4	21		i	2.		65		37
Н 1266 В	6	5	12	13	49			10	11 .	. 2		31	44
							٠		•	•			
LINE 317		FLIGHT			400		٠						•
A 1332 S	1	9	0		109			1	0.	-	11	505	0
D 1344 S	2	10	0	27	115	172		1	0.			458	0 0
H 1361 S? I 1365 S?	1 0	1 1	0 0	2 3	6 8			1	0.			1798 1406	
K 1371 S?	4	0	0	3 1	0 8			1	19	, r , 1	75	758	37
	4	v	U		U	13	•	I I	. 13 0	· ·	. 15	750	57
LINE 401	(1	FLIGHT	2)				•		,	•			
A 1655 S	1	5	1	17	70	117	•	1	0.	. 1	15	136	0
B 1660 S	1	4	0	12	59	.71	•	1	0.	, 1	10	135	0
C 1669 S	1	15	0	26	95	189		1	0	. 1	12	112	0
D 1671 S	1	15	0	23	21	204		1	0.	i − 1	9	432	0
E 1676 S	1	2	0	3	18	40		1	0 .	. 1	21	225	0
F 1681 S	2	7	0	12	48	101		1	0.	. 1	15	173	0
G 1684 B	7	34	10	95	444			2	0	· 1	B	182	0
I 1692 S	0	4	1	5	14	36	•	1	0.	. 1	23	473	Q
LINE 402	0	LIGHT	2	•			•			•			
A 1748 S	4		3		148	76		6	0	, , 1	17	28	5
•	•						•	•	-	- •		•	-
	TIMA	red de	PTH I	MAY B	E UNR	ELIAB	LE	BECA	USE THE	STRON	GER PA	RT .	
									NE SIDE				

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT . . LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

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		AXIAL DO HZ		LANAR)0 HZ		LANAR DO HZ		TICAL		zontal Eet	CONDU EAR	
ANOMALY/ I FID/INTERP							. COND. MHOS		COND MHOS		RESIS OHM-M	
LINE 402	/1	FLIGHT	2)				•		•			
B 1744 S	1	5	0	14	62	120	. 1	0	•	12	236	0
C 1737 S	Ó	7		13	53					16	232	Õ
D 1735 S	0	7.		3	48	41	. 2	13	. 1	25	267	5
F 1725 S	1	23	5	22	122	69			-		256	0
G 1723 B?		20	5	62	225			, 0 ,			34	4
H 1716 S	1			16	84						112	3
J 1708 S	0	2	5	4	24	42	• 1	0	. 1	35	42	19
LINE 403	0	FLIGHT	2)	I			•		•			
A 1762 S	3	6	0	8	35	39	. 1	0	. 1	17	104	0
B 1764 S	1	3	Ō	14	29					14	288	Ō
C 1773 S	0	5	0	16	54	122	. 1	0	. 1	19	248	0
D 1777 S	0	2	0	2	11	35	. 1	0	. 1	32	59 0	5
E 1782 S	1	2	0	5	24	41	. 1	0	. 1	17	291	0
F 1785 S	2	7	0	13	77	81	. 1			18	663	0
G 1799 S	0	19	3	50	216							
H 1805 S	2	6	0	16	70	130	• 1	0	• 1	22	94	6
LINE 404	/1	FLIGHT	2)				•		•			
A 1862 S?		2	0	3	11	22	. 1	11	• • 1	61	684	27
B 1851 S?		2	Ő	4	13						839	0
C 1846 S?		3	Ō	3						24	607	
E 1841 S	0	13	1	31	148						69	0
F 1837 S	2		2	42	122				. 1	11	30	0
H 1824 S	4	4	0	11	56	46	. 2	: 0	. 1	28	90	10
							•		•			
LINE 405 B 1965 S?		FLIGHT 3	· 2) 0	6	5	54	•	0	• • 1	3	2264	0
C 1975 S?				4	6			-			1839	0
D 1988 S?			1	33	164						435	0
E 2008 97		3	1	9	39	76		-		17	287	Ő
							•		•			
LINE 406		FLIGHT	2))			•		•			
A 2076 S?		3	0	13	29			0	• 1	16	483	0
B 2058 S?		6	1	17	65	134		0	. 1	7	199	0
C 2050 S?		2	1	8	25	66		0	• 1	20	486	0
D 2046 S?		1	1	2	3	22		0	• 1	19	3370	0
F 2038 S	1	8	1	21	22	82		•	• 1	17	590	0
G 2036 S	2	8	1	21	102	140	• 2	: 0	. 1	13	97	0
LINE 407	(1	FLIGHT	3)	ł			•		•			
A 1969 S	ò	1	0	2	3	33	. 1	0	. 1	10	2795	0
•											•	
								USE THE				
								NE SIDE			HT.	

		XIAL 00 HZ		ANAR 0 HZ		LANAR)0 Hz			IKE		zontal Zet	CONDUC EAR	
ANOMALY/ H FID/INTERP		QUAD PPM	REAL PPM	QUAD PPM	REAL PPM	QUAD PPM				COND		RESIS OHMM	DEPTH M
		••••									••	0	••
LINE 407	(E	LIGHT	3)				•			,			
C 1980 S?	1	8	1	19	93	28		10	1.	. 1	19	108	3
D 1982 S?	1	8	0	20	82	147	•	1	0	, 1	13	150	0
LINE 408	(1	LIGHT	3)				:		•				
C 2083 S	0	2	4	5	22	31	•	2	30	1	110	196	57
E 2075 S	2	1	0	2	8	38	•	1	0 .	. 1	35	606	6
F 2068 S	2	9	3	35	163	161	٠	1	0.	, 1	38	258	0
G 2065 S	6	20	6	53	262	166	•	5	0	. 1	11	21	1
J 2049 S	2	17	2	54	230	342		2	0.	, 1	16	58	4
K 2047 S	2	17	2	58	267	373		1	0.	. 1	6	323	0
M 2040 S	0	4	0	10	21	102		1	0,	, 1	14	642	0
0 2036 5	4	8	1	27	82	219		1	0.	. 1	13	194	0
P 2027 S	1	5	1	11	38	65		1	0.	. 1	14		0
U 2011 S?	0	1	1	2	4	23	٠	1	0.	, 1	28	1914	0
LINE 409	(1	LIGHT	. 3)						4	•			
A 2101 S	770	8	1	22	107	129		2	0	. 1	11	74	0
C 2105 S?	0	10	2	21	97	142		1	0	. 1	12	94	Ō
D 2117 S	3	3	1	8	21	61		1	0	1	41	278	16
E 2118 S	3	3	0	8	28	61	•	1	Ο.	, 1	15	334	0
F 2135 S	0	3	0	8	22	77		1	Ο.	. 1	13	554	0
H 2142 S	2	14	1	45	198	186	•	3	0 .	. 1	16	61	3
I 2143 S	2	14	0	45	190	186	•	3	0.	, 1	17	57	4
K 2153 S	0	7	0	18	74			1	0	. 1	21	678	0
M 2160 S?	1	1	0	4	4	45	٠	1	0.	. 1	0	2980	0
N 2172 S	1	1	0	3	7	31	٠	1	0	. 1	36	1382	3
LINE 410	(1	FLIGHT	3)				•		i	•			
A 2325 S	3	17	2	47	234	282	•	2	0	. 1	9	50	. 0
B 2321 S?	4	21	4	48	247	211		4	0	. 1	15	33	4
C 2317 S	4	4	Ō	8	29	76		1	Ū,	. 1	28	315	6
D 2311 S	3	6	0	8	28	69	•	1	0	. 1	40	232	18
E 2308 S	0	6	1	13	47	111	•	1	0	. 1	12	250	0
H 2290 S	6	13	1	41	184	248	•	2	0	. 1	15	348	0
I 2286 S	3	13	1	35	169	217		1	0	. 1	45		4
J 2283 S	3	7	1	18	57	124		1	0	. 1	16		0
K 2272 S?	3	9	1	27	107	150		2	0	. 1	12		0
N 2252 S	5	2	0	5	15	51	٠	1	0	. 1	12	732	0
							٠			•			
LINE 411		FLIGHT	-		100	164	•	•	^	•	13	70	~
A 2348 S?	3	14	2	26	122	151	•	2	0	. 1	13	79	0
* * 500	ͲͳϺϪ፣	יים הצי	DTH N	ום עמו	E IINP	ET.TAP	I.F	BECA	USE THE	STRON	GER DA	RT -	
									NE SIDE				

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. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

		COAXIAL COPLANAR COPLANAR . VERTICAL . HORIZON 900 HZ 900 HZ 7200 HZ . DIKE . SHEET					CONDUC EAR						
ANOMALY/	REAL	OUAD	REAL	OUAD	REAL	OUAD	•	COND	DEPTH*	COND	DEPTH	RESIS	DEPTH
ID/INTERP						PPM				MHOS		OHM-M	М
T TND 411	/1						٠		1	•			
LINE 411 B 2357 S	2	FLIGHT 4	: 3) 1	9	32	67	•	1	0	• . 1	28	231	7
C 2360 S	1	9	1	22	89	149		1	0	•	20	123	ó
F 2381 S	6	2	Ċ	7	21	64		1	ŏ		14	538	0
H 2387 S	0	4	1	16	62			1	0		11	172	
K 2404 S	8	3	0	10	34	90	•	1	0	. 1	17	360	0
L 2406 S	5	3	0	6	11	48	•	1	0	. 1	18	1046	0
M 2413 S	2	11	2	35	173	148	•	1	0	. 1	8	492	0
LINE 412	ο Ο	FLIGHI	: 3)				•			•			
A 2562 S?	•	21	6	56	271	219	•	1	0	. 1	2	213	0
C 2553 S	3	6	1	15	68	88		1	0	. 1	15	116	0
D 2551 S	4	5	1	16	74	39	•	4	0	. 1	14	121	0
E 2518 S	0	2	0	6	28		•	1	0		21	343	0
F 2509 S	0	3	0	10	25			1	0	. 1	19		0
G 2504 S	1		1	55	246			1	0		0		
H 2492 S	1	6	0	9	38	70	٠	1	0	. 1	22	220	0
LINE 413	0	FLIGHT	3)			•			•			
A 2580 S	4	13	2	36	178	115		1	0	. 1	0	451	0
C 2587 S	5	1	0	1	ġ	17		1	0	. 1	48	549	15
D 2593 S	1	6		13	56	47	•	2	0	• 1	12	163	0
E 2596 S	2		0	18	98			2	0	. 1	13		0
G 2622 S	0	8	0	26	103		٠	1	0	• 1	10		0
H 2625 S	3	1	0	6	5	44	٠	4	42	. 1	136	1035	0
LINE 414	· ()	FLIGHT	3				•			•			
A 2707 S	4	21	5	59	301	264		1	0	. 1	4	193	0
B 2702 S?	3			7	25		•	1					
C 2695 S	0	6	1	13	50		٠	1	0		14	146	
D 2693 S	3		0	15	79		٠	2	0		12	105	0
F 2690 S?		0	1	20	80			1	0		21	151	4
I 2671 S	2		0	41	166			1	0	•			0
K 2657 S	2	4	0	12	32	103	•	1	0	. 1	6	451	0
LINE 415	0	FLIGHT	. 3)			•			•			
C 2735 S	5		7	61	10			2		• 1	-		
D 2737 S	4		6	58	257				-	• 1		251	0
F 2764 S	0	9	0	33	121	138	•	2	0	. 1	11	123	0
LINE 416	6	FLIGHT	r 3))			•			•			
A 2840 S	•	22	7		265	235	•	1	0	. 1	10	154	0
•												•	
									USE THE				
									NE SIDE			HT .	
* *	1110	0D DBC	DOI: K		OTTAT	1007 01	T D	00 01	VERBURD		0000		

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS.

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	COAXIA 900 H		LANAR DO HZ		LANAR . DO HZ .			HORIZO SHEE		CONDUC	
ANOMALY/ R											
FID/INTERP	PPM PF	PM PPM	PPM	PPM	PPM .	MHOS	м.	MHOS	M	OHM-M	M
LINE 416	(FLIG	HT 3			•		•				
C 2837 S		0 14		336	27 .	2	ο.	1	17	124	0
D 2833 S?		2 1	6	20	52.	1	0.	1	26	549	0
F 2798 S	74	5 11	116	542	425 .	5	ο.	1	11	16	3
G 2793 S	4 1	96	59	284	247 .	1	ο.	1	0	327	0
میں ہیں ہیں بات شاہ دی اس میں اس میں					•		•				
LINE 417	(FLIG				••••		•		•		•
A 2892 S		2 6		260	198 .	1	0.	1	8	153	0
B 2897 S? D 2905 S	3	6 1 6 1	14 22	55 98	85 . 135 .		0. 0.	1	19	199 90	0
F 2911 S		6 1 29 10	72	332	92.		0.	1 1	17 10	204	1
H 2928 S		7 1	23	102			0.	1	21	108	5
I 2920 S	4	9 1	23	79		1	0.	1	8	166	0
	-	5 1	~~~			•		•	Ū	100	v
LINE 418	(FLIG	GHT 3)				•				
B 3164 S		2 2		131	135 .	2	ο.	1	10	66	0
C 3161 S	3 1	4 2	25	118	176 .		Ο.	· 1	10	65	0
D 3158 S	9 1	4 2	35	150	204 .	2	ο.	1	14	53	1
G 3149 S	3 2	20 7	53	234	216 .	1	Ο.	1	11	364	0
I 3143 S	4 1	1 2		160	122 .	4	ο.	1	. 17	39	5
K 3139 S	0	2 2	6	19	53.	1	ο.	1	32	562	5
L 3129 S	1	4 1	12	46	99.	1	Ο.	1	13	259	0
N 3124 S		1 0	3	21			15.	1	50	336	24
O 3120 S	2	3 1	10	50	68.		ο.	1	15	137	0
P 3111 S	2	6 1	14	71	79.	-2	Ο.	1	21	84	4
					•		•				
LINE 419	(FLIG				•		•			4005	
A 3182 S	3	4 0	2	11	12.	4	42.		117	1035	0
D 3194 S		9 6	49	234	183 .	1	0.	1	7	238	0
F 3210 S		5 0	44	179	200 .	2	• 0.	1	10	83	0
H 3220 S		2 1	35	165	185 .	1	0.	1	0	405	0
I 3225 S J 3229 S	0 3	1 0 2 0	6 4	21 19	60 . 40 .	1 1	0. 0.	1	14 16	455 426	0 0
0 3229 8	3	2 0	4	13	40.	I	υ.	1	10	420	U
LINE 420	(FLIG	SHT 3	`		•		•				
A 3297 S?	1	5 1	′ <u>11</u>	37	92.	1	0.	1	18	297	0
B 3289 S		26 3	69	316		1	ο.	1	. 7	248	0
C 3277 S		2 1	27	95		1	ο.	1	11	140	0
E 3273 S	7	4 1	8	35	82.	1	ο.	1	23	333	1
F 3272 S	4	4 1	8	24	78.	1	ο.	1	13	542	0
G 3264 S	2 2	24 3	75	339	498.	1	ο.	1	0	295	Ó
H 3250 S	1	3 1	6	16	67.	1	0.	1	25	690	0
•										•	
.* ESI	IMATED	DEPTH	MAY BE	UNR	ELIABLE	BECAUS	E THE	STRONG	ER PAI	RT .	

.* ESTIMATED DEPTH MAY BE UNRELIABLE BECAUSE THE STRONGER PART .

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

			COPLANAR		COPLANAR				•	HORIZONTAL				
	900	HZ	90	0 HZ	720)0 HZ	٠	D	IKE	•	Shi	CET	EAR	PH
ANOMALY/ FID/INTERP				-		QUAD PPM					COND MHOS		RESIS OHM-M	DEPTH M
LINE 420 I 3241 S	(FL 5	JGHT 13	3) 4	33	158	137	•	2	0	•	1	9	335	0
LINE 421	•	IGHT.	-		100	107	•	-	Ŭ	•			555	v
B 3324 S	4	12	5	40	70	66	:	2	0	:	1	11	173	0
D 3328 S	4	31	4	71	334	364	•	3	0	•	1	15	31	5
E 3332 S	6	10	1	24	108	135	•	2	0	•	1	13	539	0
G 3352 S	0	9	1	23	112	148		2	0	•	1	7	97	0
H 3353 S	1	9	1	23	37	148	•	1	0	•	1	27	257	5
J 3361 S	1551	1	1	4	11	47	•	1	0	•	1	7	1038	0

.* ESTIMATED DEPTH MAY BE UNRELIABLE BECAUSE THE STRONGER PART .

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

ANOMALY/ ID/INTER LINE 50 A 80 8 3 91 8 3 91 8 3 124 8 3 128 8 3 220 8 3 220 8 3 226 8 3 228 8 3 328 8 3 334 8 3 338 8 3 339 8 3 397 8 4 408 8 3 397 8 4 408 8 3 3 408 8 3 3 5 8 3 3 9 7 8 4 408 8 3 3 8 8 3 3 8	RP PPM (F S 775 S 0 S 1 S 1 S 0 0 02 (F S 2 S 0		PPM 6) 2	PPM 2	PPM	QUAD PPM		D DEPTH* S M	. COND . MHOS		
LINE 50 A 80 8 B 91 8 D 106 8 C 113 8 C 124	 S 775 S 0 S 1 S 1 S 0 02 (F S 2 S 0	FLIGHT 2 5 5 8	6) 2 3 3	2		PPM	. MHO	S M	. MHOS	34	
A 80 80 91 80 A 91 60 106 6 C 106 6 113 6 C 124 6 124 6 LINE 50 177 8 6 C 194 6 6 6 C 194 6 6 6 C 169 6 6 6 C 167 8 6 6 C 220 8 7 6 C 220 8 7 7 C 246 9 7 6 C 344 9 338 8 C 328 9 7 8 G 291 8 369 9	S 775 S 0 S 1 S 1 S 0 0 02 (F S 2 S 0	2 5 5 8	2 3 3	2	9					М	OHM-M
A 80 80 91 80 A 91 60 106 6 C 106 6 113 6 C 124 6 124 6 LINE 50 177 8 6 C 194 6 6 6 C 194 6 6 6 C 169 6 6 6 C 167 8 6 6 C 220 8 7 6 C 220 8 7 7 C 246 9 7 6 C 344 9 338 8 C 328 9 7 8 G 291 8 369 9	S 775 S 0 S 1 S 1 S 0 0 02 (F S 2 S 0	2 5 5 8	2 3 3	2	9				•		
91 91 91 106 91 91 106 91 91 106 91 91 113 91 91 113 91 91 113 91 91 113 91 91 113 91 91 113 91 91 113 91 91 113 91 91 113 91 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 94 91 111 <td< td=""><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>5 5 8</td><td>3 3</td><td></td><td>y</td><td>10</td><td>•</td><td>• •</td><td>•</td><td>31</td><td>426</td></td<>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5 5 8	3 3		y	10	•	• •	•	31	426
D 106 5 113 5 113 5 113 6 113 6 113 6 113 6 124 6 124 6 194 5 169 6 169 6 167 8 169 6 167 8 169 6 167 8 169 6 167 8 220 8 20 328 8 5 301 8 369 8 2379 8 5 397 8 397 8 307	S 1 S 1 S 0 02 (F S 2 S 0	5 8	3	10				10 30			
E 113 S 3 124 S 3 124 S 4 194 S 3 189 S 5 169 S 7 167 S 3 158 S 5 169 S 7 167 S 3 158 S 5 220 S 3 226 S 5 229 S 5 226 S 5 229 S 5 226 S 5 229 S 5 226 S 5 229 S 5 226 S 5 229 S 5 226 S 5 229 S 5 29 S 5 39 S 5 3	S 1 S 0 02 (F S 2 S 0	8							•		
3 124 2 LINE 50 A 194 5 B 189 5 C 169 5 C 167 5 C 167 5 C 220 5 C 246 5 C 344 5 C 328 5 C 301 5 C 363 5 C 379 5 C 379 5 C 395 5 G 397 5	S 0 02 (F S 2 S 0							4 0		6	
LINE 50 A 194 8 B 189 8 D 177 8 C 169 8 F 167 8 G 158 8 LINE 50 A 220 8 B 226 8 C 229 8 C 229 8 C 229 8 C 246 8 F 266 8 C 378 8 C 379 8 C 397	 02 (F 5 2 5 0	2	1					1 0			
194 189 189 177 169 177 169 167 158 158 158 158 158 158 158 158 208 2334 2318 2318 2318 2318 2318 2318 3328 3318	52 50		1	2	,	33	•		• •	20	1137
194 189 189 177 169 177 169 167 158 158 158 158 158 158 158 158 208 2334 2318 2318 2318 2318 2318 2318 3328 3318	52 50	LIGHT	6)								
3 189 8 0 177 8 0 169 8 167 8 158 8 158 8 2108 8 2208 8 2208 8 2208 8 2208 8 2208 8 2208 8 2208 8 2208 8 2208 8 2208 8 2208 8 2208 8 2208 8 338 8 338 8 334 8 334 8 334 8 334 8 334 8 334 8 334 8 335 8 363 9 379 8 395 8 397 8	s 0	8	1		76	141	•	1 0	. 1	13	161
177 169 167 167 158 158 158 158 158 158 158 158 158 158 158 158 208 220 246 23338 2334 2334 231 231 231 2328 2334 231 2328 231 2329 231 2329 231		2	Ó		12			1 0	-		
T 167 8 J 158 8 J 158 8 J 20 8 J 220 8 J 344 8 J 334 8 J 344 8 J 344 8 J 344 8 J 344 8 J 301 8 J 363 9 LINE 50 9 LINE 50 379 LINE 307 8 J 395 8 J 397 8 J 397 8	54	1	0	1				1 0	. 1		
G 158 S LINE 50 A 220 S B 226 S C 229 S C 229 S C 246 S F 266 S LINE 50 A 344 S C 345 S C 379 S S 397 S		4	0					1 0	. 1	17	
LINE 50 A 220 S C 229 S C 229 S C 246 S F 266 S LINE 50 A 344 S C 334 S C 334 S C 328 S F 301 S C 328 S C 328 S C 328 S C 328 S S 369 S C 379 S S 397 S		3	0	9	30	91	•	10	. 1	21	463
LINE 50 A 220 S B 226 S C 229 S C 246 S F 266 S LINE 50 A 344 S B 369 S C 379 S C 379 S S 397 S	S 2	11	0	29	90	243	•	1 0	. 1	6	190
A 220 S B 226 S C 229 S D 246 S F 266 S LINE 50 A 344 S B 338 S C 334 S C 334 S C 328 S G 291 S LINE 50 A 363 S C 363 S C 363 S C 363 S C 379 S C 379 S S 395 S G 397 S							•		•		
3 226 8 2 229 8 0 246 8 7 266 8 1 266 8 2 346 8 3 344 8 3 344 8 3 344 8 3 344 8 0 328 8 0 328 8 0 328 8 0 328 8 0 328 8 0 328 8 0 328 8 0 328 8 0 328 8 0 328 8 0 3291 8 0 369 8 0 379 8 0 385 8 0 397 8 0 397 8		LIGHT	•				•		•		
229 8 246 8 266 8 266 8 100 344 338 8 338 8 338 8 338 8 338 8 338 8 338 8 338 8 338 8 338 8 338 8 334 8 334 8 334 8 334 8 334 8 334 8 334 8 334 8 334 8 334 8 335 8 363 8 363 8 363 8 363 8 363 8 363 8 363 8 363 8 379 8 397 8 <td></td> <td>2</td> <td>1</td> <td>-</td> <td></td> <td></td> <td></td> <td>2 0</td> <td></td> <td></td> <td></td>		2	1	-				2 0			
246 266 8 266 8 266 8 LINE 50 334 8 338 8 338 8 338 8 338 8 338 8 338 8 338 8 338 8 338 8 338 8 334 8 334 8 328 8 301 8 G 291 8 9 LINE 50 8 369 8 LINE 50 379 8 8 G 397 8 397 8		5	0					1 0			
F 266 8 LINE 50 A 344 8 338 8 338 8 C 334 8 338 8 C 334 8 338 8 C 334 8 338 8 C 328 8 5 9 G 291 8 8 5 LINE 50 4 50 8 LINE 50 4 50 8 LINE 50 4 50 8 G 379 8 8 5 G 397 8 397 8		4	1			65		20	•	17	
LINE 50 A 344 8 B 338 8 C 334 8 C 328 8 F 301 8 G 291 8 LINE 50 A 363 8 B 369 8 C 379 8 E 385 8 F 395 8 G 397 8		2 8	1 2	2	12	32		10 30		25	
LINE 50 A 344 8 B 338 8 C 334 8 D 328 8 F 301 8 G 291 8 LINE 50 A 363 8 B 369 8 C 379 8 E 385 8 F 395 8 G 397 8		8	2	21	116	98	•	30	• 1	12	45
A 344 8 B 338 8 C 334 8 D 328 8 D 328 8 F 301 8 G 291 8 LINE 50 A 363 8 B 369 8 C 379 8 E 385 8 F 395 8 G 397 8		LIGHT	6)				•		•		
338 338 334 328 3		15	4		147	126	•	1 0	. 1	15	251
D 328 8 F 301 8 G 291 8 LINE 50 A 363 8 B 369 8 C 379 8 E 385 8 F 395 8 G 397 8	S 0	5	. 1					1 0	. 1	17	152
F 301 8 G 291 8 LINE 50 A 363 8 B 369 8 C 379 8 E 385 8 F 395 8 G 397 8	S 0	5	3	10	4	51	•	1 0	. 1	51	273
G 291 8 LINE 50 A 363 8 B 369 8 C 379 8 E 385 8 F 395 8 G 397 8	S? 0	4	1	10	41	38	•	20	. 1	37	
LINE 50 A 363 2 B 369 2 C 379 2 E 385 2 F 395 2 G 397 2		8	0					1 0		10	
A 363 8 B 369 8 C 379 8 E 385 8 F 395 8 G 397 8	s 1	11	0	27	119	198	•	1 0	• 1	7	525
A 363 8 B 369 8 C 379 8 E 385 8 F 395 8 G 397 8							•		•		
B 369 8 C 379 8 E 385 8 F 395 8 G 397 8	•	FLIGHT	6)			• •	•		•	•••	
C 379 S E 385 S F 395 S G 397 S		2	1	2	19	20	•	1 0	• 1	24	106
E 385 S F 395 S G 397 S		7	8	19		39		30	• 1	32	111
F 395 8 G 397 8		3	0	6	30	44	•	1 0	• 1	45	168
G 397 S		1	1	2	12	24	•	10 10	• 1	25	605 67
		14 14	2	27 33	48 146	90 221	•	10 20	• •	20 13	88
		14	1	33 20	146			202	• 1	12	52
	5 I	0	3	20	109	101	•	2 0	• •	12	52
LINE 50		LIGHT	: 6))			•		•		
A 479 S	 06 (F	1	4	25	107	85	•	30	. 1	21	53
C 473 8	-	9	11	26	64	116	•	4 15	. 1	31	68
•	S 3							AUSE THE			•

				AXIAL DO HZ		LANAR)0 Hz		LANAR DO HZ			FICAL IKE		zontal Eet	CONDUC EAR	
				QUAD PPM							DEPTH* M	. COND . MHOS		RESIS OHM-M	
LI	NE	506	0	FLIGHT	: 6)				•			•			
F	465		2	18	2		181	253	÷	1	0	. 1	3	353	0
G	460				2		27			1			37		
J	455	S	0			3	7			1	2	. 1	17	1416	0
\mathbf{L}	442	S	2	8		17					0		12		
М	430			3	1	2		9		4	21		100		
N	428	S	2	3	1	8	35	66	٠	1	0	. 1	11	273	0
LI	ne Ne	507	(1	FLIGHT	. 6))			•			•			
в	655	S	4	8	9		71	53	•		1			48	9
	651			5	6		41	11		3				101	0
	645		0	15	5			154		2	0	• •			
	618							149		1	0				
F	611	S?	1	1	1	4	7	46	•	1	0	• 1	6	1377	0
	NE		(1	FLIGHI	6)	ł						•			
	693						111	86		3					-
	724						269			2			-		
D	728		1	2	1	8	17	77	•	1	0	• 1	11	665	0
	NE		0	FLIGHT	. 6))			:			•			
	877		1		1		121	158		1	0	. 1	13	552	0
в	868	S?	1	3	0	2	12	31		1	13	. 1	187	1035	0
Е	822	S	1	13	3		212	162	•	1	0			387	0
F		S	1	8	3	26	108	116	٠	1	0	. 1	5	506	0
	NE		o	FLIGHT	r 6)	•			•			•			
	895		1		1		193	197		1	0	. 1	0	390	0
В	913	S	0	2	0	9	36			1	0	. 1	21	193	0
С	924	S	2			18	90	97	•	1	0	. 1	22	742	0
Е	928	8 S	3		0	21	87	148	•	1	-	. 1	17	120	C
F	932		2	2	0	15	63			1	2	. 1	24	675	
G	934		0	6	0	18	46			1	0	. 1	9		
Н	938		2	9	3	57	282			1	0	• 1	0		
J	954		0	5	0	19	82			2	0	• 1	12		
K			0	4	1	16	52	99		1	0	• 1	13		
L		B?		18	14	42	151	192		5	2	. 1	22		
м —-	973	s s 	1	9	4	23	95	173	•	1	0	• 1	18	44	6
LI	NE	511	(1	FLIGHT	6)			•			•			
A	1076	i s	Ó	-	0	3	6			1	7	. 1			
С	1071	S	3	0	0	1	0	14	٠	1	0	. 1	53	6303	0
	•		m T 14 3 4	ים חפוו			ייז דריין		r 101	DECN		CUDON		•	
	• *										USE THE NE SIDE				
	• 1	OL.	THE	CONDU	UTOK	MAI 1		Grek (JR	10 U	AR OIDE	OF TH	e trife		

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS.

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		AXIAL DO HZ		ANAR 10 HZ		LANAR 00 Hz				. HORI: . Shi	zontal Eet	CONDU EAR	
ANOMALY/	REAL	QUAD	REAL	QUAD	REAL	QUAD	•	COND	DEPTH*	. COND	DEPTH	RESIS	DEPTH
FID/INTERP	PPM	PPM	PPM	PPM	PPM	PPM	٠	MHOS	М	. MHOS	M	OHM-M	м
LINE 511	(1	LIGHT	. 6)				٠			•			
E 1063 S	0	1 1	. 0, 0	3	7	42	:	1	0	. 1	11	1364	0
F 1048 S	1	14	0	43	216			1	Ō			409	
G 1044 S	2	5		14	63			1	0			173	
H 1027 S	2	29		84	387			5	0				
I 1020 S	0	17		41	175			1	0			309	
L 1002 S	5	22	8	63	272			2	0		. +		
M 998 B? O 995 S	16 7	10 20	17 20	24	89			13 3	22 2				
0 995 5	/	20	20	36	141	120	:	3	2	. 1	20	31	10
LINE 512	(E	FLIGHT	: 6)							•			
A 1107 S?			0	1	5	11	•	1	10	. 1	42	6065	0
F 1150 S	2	6	9	31	115	64	•	5	0	• 1	22	25	10
							•			•			
LINE 513		FLIGHT	•		~~	00	٠		•	•			•
A 1251 S? C 1232 S	3 5		2	9				1 2	0				
D 1226 S	э 7	28 5	10 4	73 11	345 42			1	0 0			155 268	
F 1203 S	6	11	-	28	73			1	0			39	
G 1197 S		9		23				3	5				
H 1187 S	3			9				3	7			109	
							•			•			
LINE 514	•	FLIGHT	•				•			•			
A 1334 S?		1	0	5	13			1	0	-			
B 1343 S	0	0		2	1			1	0		-		
C 1350 S	2	6		20	73			1	0		18	138	
E 1360 S	5	13	1	34 29	200			2	0				
F 1364 S H 1371 S	8 2	14 1	10 0	29	109 11			4	0 0				
J 1377 S	3	5	1	14	51			1	Ő				
L 1381 S			2	25	80			1	0				
M 1386 S	2	7	ō	15	72			1	Ō		16	113	
N 1389 S	2	11	2	21	111	147	•	2	0	. 1	14	75	1
0 13 91 S	2	11	1	18	88	155	•	1	0	. 1	15	63	3
							٠			•			
LINE 515		FLIGHT	-			46	•	4	0	• •	22	607	2
B 1490 S? C 1480 S	1 0	2 13	1 0	34 34	11 141			1	0	-			
E 1473 S	1	8	0	22	76			1	0	• •			
F 1470 S	6	13		32	110			2	1	. 1	•		
G 1462 S	1		1	34	162			2	, O			69	
I 1451 S	8	9	10	29	119			5	14	• •		92	
•												•	
									USE THE				
• OF	THE	CONDU	JCTOR	MAY	BE DE	EPER (DR		NE SIDE			HT .	

		XIAL O HZ		ANAR 0 HZ		LANAR DO HZ		VERTICA DIKE	AL .	HORIZON Sheet	TAL	CONDUC EARI	
ANOMALY/ F	ምልፒ. /	מזזה	DFAT.	מנוס	PFAT.	מגוזס	•	COND DE	DTTU *	COND DE	omu	DRCTC	עידטיארו
FID/INTERP			PPM	PPM	PPM			MHOS		MHOS		OHM-M	M
								14100	•	14100		UIA 11	
LINE 515	(F)	LIGHT	6)				•						
J 1449 S	5	12	10	29	122	33		13	6.		18	27	8
K 1446 S	4	10	6	23	82	45		4	3.		16	64	2
L 1443 S	0	12	2	34	145	201		2	0.		10	103	0
M 1431 S	0	6	0	11	33	104		1	0.	-	17	295	0
N 1427 S	4	18	2	34	131	257		1	0.	-	6	356	0
O 1420 S P 1412 S	11 2	25 10	22 6	87 20	139 96	51 202	٠	4 1	1.	1	20 17	70 39	0 6
P 1412 5	2	10	0	20	90	202	•	I	υ.	ľ	17	39	0
LINE 516	(F)	LIGHT	6)				:		•				
C 1539 S	1	3	1	3	11	13	•	1	10	1	68	128	45
D 1546 S	0	4	2	7	25	39		1	0.	1	23	130	2
E 1556 S	7	11	11	35	116	67	•	4	Ο.	1	20	19	9
F 1558 S	5	5	13	34	173	91	•	4	2.	1	22	77	0
Н 1564 S	1	10	1	27	108	199		1	0.	1	14	88	0
J 1570 S	2	3	5	23	132	109		3	Ο.		17	47	4
K 1579 S	6	4	7	6	37		٠	11	26.		28	56	1
L 1586 S	1	6	2	12	62	61	٠	2	Ο.	1	17	44	5
LINE 517	10	LIGHT	6)				•		•				
A 1686 S	0	5	1	15	41	118	•	1	0.	1	16	304	0
C 1680 S	Ő	12	3	43	205	272		2	0.	-	12	58	0
D 1665 B?	8	39	13	94	430	470		2	0.	1	9	139	Õ
E 1663 B	13	39	21	94	430	466		3	0 .	1	23	95	0
F 1661 B	14	16	21	49	58			6	15 .	-	72	46	44
G 1650 S	2	15	3	33	165	184	•	2	Ο.	1	12	55	0
H 1643 S	5	17	4	35	158	158	•	2	0.	1	13	194	0
I 1638 S	2	11	3	25	146	90	•	1	Ο.	1	5	335	0
J 1633 S	1	6	2	15	70	129	•	1	Ο.		13	112	0
K 1627 S?	9	21	10	43	171	194		3	7.		14	223	0
	2		-	37	191	261	-		0.		15		4
N 1620 S	1	11	3	40	170	102		1	1.		18	209	0
0 1617 5	6	10	7	40	120			3	10 .		17	163	0
P 1614 S	6	29	8	61	270	197	٠	2	1.	1	11	177	0
LINE 518	(F	LIGHT	6)		`		•		•				
B 1719 S	2	17	4	44	199	263		2	ο.	1	15	54	2
C 1730 S?	3	21	4	46	215	279		1	0 .			198	ō
D 1732 B	14	28	13	80	374	240		3	ο.			116	0
F 1744 S	0	10	1	28	102			1	0.		10	128	Ő
G 1746 S	4	9	1	20	107	160	•	1	ο.	1	14	67	0
H 1751 S	0	6	1	12	53	101	•	1	Ο.	1	11	203	0
.* ES1	TIMAT	ED DE	PTH M	IAY BI	e unri	ELIABL	Æ	BECAUSE	THE	STRONGER	PAR	т.	

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

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		AXIAL DO HZ		LANAR)0 Hz		LANAR DO HZ			FICAL . IKE .		zontal Eet	CONDUC EAR	
ANOMALY/	REAL	QUAD	REAL	QUAD					DEPTH*.	COND	DEPTH	RESIS	DEPTH
ID/INTERP	PPM	PPM	PPM	PPM	PPM	PPM	•	MHOS	м.	MHOS	M	OHM-M	M
LINE 518	(1	FLIGHT	r 6)				•		•	1			
I 1766 S	1	_	7	23	94	68	•	2	Ο.	1	34	83	1
J 1770 S	2	5	3	17	85	81	•	2		1	19	203	(
LINE 519	(3	FLIGHT	. 6)				•		•				
B 1878 S	1		. 0, 1	14	37	134	•	1	0	. 1	8	399	(
C 1871 S?						47		1					
D 1863 B?	2		6	17		92		2	0.	-			15
E 1846 S	1			3				1				1199	
F 1833 S	5		0	6				. i	0.		-	1137	
G 1824 S	9		11	35		143		4	4			144	10
I 1821 S	8		7	1		29		9			20		Ċ
J 1819 S	1		5	39	177			2					1
K 1813 S	1		1	15	75	104		1					5
L 1808 S		4	1		49	102			0				Ċ
							•		•	I			
LINE 520		FLIGHT			25	75	٠	4	•	· •	10	202	
A 1964 S	0	-	1	-		75		1					
B 1979 S?		2 14			27			1					(
C 1989 S D 1991 S					172 179			1 2			22 15		
E 1999 S		19		29	142	119		2					
							•			•			
LINE 521	(1	FLIGHT	: 6)				•			•			
A 2079 S	4	6	5	44	212	213	•	3	0	. 1	16	71	
B 2074 S		6				174		1					1
C 2072 S		11			101	318		1					
E 2050 S	3	14	-		110	149		2					•
G 2041 S	-	14			166	234		2		1	-		(
I 2035 S?	0	3	1	7	17	67	٠	1	0 .	. 1	16	692	(
LINE 522	a	FLIGHT	r. 6)				•		· ·	•			
A 2125 S	•			_ 9	56	75		1	0	. 1	17	71	
B 2129 S		6		16				1	0				
C 2134 S?		2	•		15			1	0				
D 2150 S		19		48				1	0	. 1	2		
F 2159 S?	3	2	1	7	32	58	•	1	0	, 1	13	290	(
							•			•			
LINE 523	-	FLIGHT					٠			•			
A 2233 S		9	2	20	71	94	•	1	0	. 1	17	58	6
LINE 524		FLIGHT	r 6)				•			•			
A 2247 S					19	42	ļ	1	0	. 1	16	324	(
	•		•	•			•		-	•			
.* ES	TIMA!	TED DI	EPTH I	MAY B	E UNR	ELIABI	LE	BECA	USE THE	STRON	GER PA	RT	
									NE SIDE				
									VERBURD			-	

		XIAL)0 HZ		ANAR 10 HZ		LANAR DO HZ			ICAL KE		zontal Eet	CONDUC EAR	
ANOMALY/	REAL	QUAD	REAL	QUAD	REAL	QUAD	. con	ND	DEPTH*	. COND	DEPTH	RESIS	DEPTH
ID/INTERP										. MHOS		OHMM	М
	. /5	at toum	61				•		•	•			
LINE 524 C 2271 S?	-	FLIGHT 1	6) 1	1	4	11	•	1	0	•	52	1578	8
		•	•	•	-	••	•	•	•	•	•••		•
LINE 525	•	FLIGHT	6)				•			•			
A 2372 S		7		12	28			1	0				0
B 2360 S					251			1	1 · 0		_		0
C 2357 S D 2322 S?		9 2		26 6	51 9		•	1	U 0				0
D 2322 DI		2	I	U	3	4/	•		U	• •	10	1243	U
LINE 526		FLIGHT	6)				•			•			
B 2388 S	3	13	3	30	135	135	•	1	0	. 1	18	270	0
C 2399 S		9		23	86		•	2	0	. 1			0
D 2401 S	1	11	1	27	61	98	•	1	0	. 1	11	451	0
LINE 527		LIGHT	6)				•		1	•			
LINE 527 A 2569 S	•		6	48	235	162	•	1	0	•	8	250	0
E 2537 S	1			7		74		1	2		-		Ő
F 2531 S	Ó	3		ġ				1	ō				-
H 2511 S	0	22	6	61	303	291	•	1	0	. 1	5	231	0
							•			•			
LINE 528		FLIGHT			-		•		•	•	20	1000	
A 2605 S?				1	5			1	0				
B 2624 S C 2635 S		1	1 0	47	27 22			3 1	13 0		36 22		15
			v	•			:	•	v	•		505	Ŭ
LINE 529) (F	FLIGHT	6)				•			•			
B 2712 S	2		1	8				2	22			672	0
C 2710 S			1					2	23		29	212	10
D 2706 S		4		11	45			1	0	-	24		
F 2693 S	0	4	1	12	37	96	•	1	0		23	321	1
LINE 530		FLIGHT	6)							•			
B 2780 S	•	2	-		19	56	•	1	0	. 1	24	512	0
	•						•			•			
LINE 531	-	FLIGHT					•			•			
A 2887 S		-		3		32			-	• •	-		
B 2865 S		4	-	11		68		1	0 0			831	
D 2852 S		5	0	17	40	151	•	1	U	• 1	11	391	. 0
LINE 534		FLIGHT	6)				•			•			
A 3073 S	-		-	13	41	116	•	1	0	• 1	13	306	0
B 3092 S				2	19			1	0	• 1			
•							 _	- -				•	
									JSE THE				
. OF	THE	CONDU	CTOR	MAYI	BE DE	EPER (DR TO	01	NE SIDE	OF TH	E FLIG	HT .	

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS.

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		XIAL) HZ		LANAR 00 Hz					ICAL KE		zontal Eet	CONDUC EAR	
ANOMALY/ R ID/INTERP												RESIS OHM-M	DEPTI N
LINE 535	(FI	LIGHT	6)				•			•			
B 3115 S									90			1035	
C 3105 S	1	2	1	4	17	17	•	1	0	• 1	31	293	
	(FI		•		05	20	•		0	•		054	
A 3209 S	U	2	0	3	25	32	٠	1	U	. 1	20	251	
	(FI	LIGHT	6))			:			•			
A 3289 S	2	1	0	3	4	21	•	1	0	. 1	3	2258	
LINE 539	(FI	LIGHT	6)	1			•			•			
B 3377 S	1	2	0	4	11	44	•	1	0	. 1	26	982	
LINE 601	(FI	LIGHT	5))			•			•			
A 2020 S	1		_	10	50			1	0			151	
B 2015 S?	1	3	1	6	16	36	٠	1			34		
C 1999 S	6	14	1	32	137	242	٠		0		9		
D 1995 S									26		46		
E 1963 S	2	8	1	6	9	6	•	1	0	. 1	81	689	
LINE 602	(FI	LIGHT	5))						•			
B 1894 S	1	3			22		•	1	0	. 1	27	551	
C 1901 S	2	20	2	45	225	281	•	1	0		3		
D 1917 S						83	•	1	0		6		
G 1929 S					6				0		14		
I 1937 S?	1	2	0	4	9	54	•	1	0	• 1	18	1244	
LINE 603	(FI	LIGHT	5)				:			•			
B 1862 S					12	31	•	1	0	. 1	19	762	
D 1851 S			9	23	112	42	•	8	6	. 1	16	43	
E 1846 S	5	15	7	38	162	118		2	2	. 1	12	130	
G 1835 S	5	24	4	54	257	244		1	0	. 1	6	267	
H 1827 S	4	2	0	4	18	46	•	1	0	. 1	17	634	
LINE 604	(F)	LIGHT	5				•			•			
C 1764 S	3		3		297	377	•	1	0	. 1	0	275	
E 1775 S	4	12	2	8	46	178	•	2	13	. 1	9	304	
F 1777 S	3	17	3	40	164	210	• '	2	0	• 1	12	44	
LINE 605	ርምነ	LIGHT	5))			•			•			
A 1730 S	0		0		27	73	•	1	0	. 1	14	492	
B 1727 S				61				1	-		0		

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

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		AXIAL DO HZ		LANAR)0 HZ		LANAR)0 Hz			FICAL . IKE .	HORI: Shi		CONDUC EAR	
ANOMALY/ H	ÆAL	QUAD	REAL	QUAD	REAL	QUAD	•	COND	DEPTH*.	COND	DEPTH	RESIS	DEPTH
'ID/INTERP	PPM	PPM	PPM	PPM	PPM	PPM	•	MHOS	м.	MHOS	м	OHM-M	ł
LINE 605	/ 16	LIGHT	. 5)				•		•				
C 1721 S	2		•		159	247	•	2	0.	1	14	61	
D 1717 S					133			1					
E 1709 S	1	19			151			1					
LINE 606	(E	LIGHT	· 5)				•		•				
A 1547 S	-	5	1		62	85	•	1	0.	1	13	133	
B 1553 S		. 11	0		101			1					
D 1559 S	2	8	0	10	40	89		1	Ο.	1	29	701	
E 1568 S F 1570 S	7	20	2		152			2		1			
F 1570 S	0	22	0	51	197	349		1		1	3	329	
H 1582 S	4	20	0		181			2	0.			67	
LINE 607	(E	FLIGHT	. 5)				•		•				
B 1494 S	•				36	80	•	1	0.	1	11	341	
C 1481 S	6	27	3	61	269	360	•	1			8		
E 1478 S	5	16			139			2	Ο.	1	28		
F 1473 S	7	26			264			2	Ο.	1	12	283	
G 1470 S	1	4	5	62	264	63		1	ο.	1	15	218	
L 1438 S 1	548	10	1	15	74	105	٠	1	Ο.	1	15	121	
	/1	31 T.O.10					•		•				
LINE 608 A 1375 S	0	FLIGHI 11			140	64	•	7	0	4	17	54	
B 1382 S	-			29 22		44					14		
C 1389 S											17		
I 1425 S		11						4			23		
	, <u> </u>						•		•				
LINE 609		FLIGHT			170	100	•	•		4	4.4	1 7 7	
B 1359 S	7				170				6.				
C 1355 S		9 8			100	39		7 3		1			
E 1339 S F 1324 S	3 5		3 0	10 30	61 129	38 204		3 1	8. 0.		17 14	64 97	
	•	, 0	Ū	50	125	201	•	•	•	•			
LINE 610	(E	LIGHT	: 5)				٠		•				
A 1200 S	4		• 0	38				1			•••		
B 1205 S	8		3	18	33			4			3	466	
C 1214 S?	4	-	0	16	64			1	0.		-	221	
D 1219 S	4		2	38				1			0	345	
E 1227 S	2		0	41	178			2		-	14	75	
G 1250 S	0	8	2	13	64	50	•	2	0.	1	20	81	
LINE 611	(1	FLIGHT	r 5)				•		•				
A 1180 S	-			13	70	56		3	4.	1	16	59	

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

	COAXIAI 900 H2		LANAR DO HZ		ANAR 10 Hz		ICAL .		zontal Eet	CONDUC EAR	
ANOMALY/ R					QUAD						DEP
ID/INTERP	PPM PPN	A PPM	PPM	PPM			м.	MHOS	м	OHM-M	
LINE 611	(FLIG	IT 5))			•					
D 1149 S	•	5 0	10	28	97	. 1	0.	1	9	472	
E 1132 S	0 !	50	6	16	54	. 1	Ο.	. 1	93	992	
7 1127 S	2 8	3 0	9	34	78	. 1	0.	1	33	726	
LINE 612	(FLIG	IT 5))			•	•				
C 1057 S	0 '	I 1	12	23	38	. 1	Ο.	1	20	45	
G 1084 S	0 1	i 0	0	0	12	. 1	Ο.	1	78	7638	
t 1099 S			14	44	29	. 1	Ο.	. 1	33	752	
K 1106 S	3 6	5 1	- 20	98	85	. 3	0.	1	16	68	
LINE 613	(FLIG	iT 5))			•	•				
A 996 S	3 1	0	25	86	175	. 1	Ο.	1	15	91	
3988 S) 0	17	65	144		Ο.		14	202	
2 986 S	5 12		34	172	246		0.			75	
960 5?	0 3		9	20	98		0.		10		
948 S	0 9	ə 0	24	77	190	• 1	0.	1	12	220	
LINE 614	(FLIG	IT 5)				•		•	,		
A 881 S		30	16	72	112		0.		12		
3 888 S	2 1 [°]	1 0	38	137	292	• 1	0.	. 1	14	512	
LINE 615	(FLIG	IT 5))			•	•	•			
D 861 S		0 0	1	8	19		10.		90	666	
5 856 S		20		34			18 .			1035	
7 848 S	8 32		88				0.		•	285	
3 834 S		90	6	15	74		1.		•••=	1021	
t 822 S?	0 2	2 0	9	18	96	• 1	0.	1	14	765	
LINE 616	(FLIG	HT 5)				•		•			
3 741 S				21	38	. 1	0	. 1	7	445	
LINE 617	(FLIG	IT 5))			•	•				
3 674 S	•	4 0		67	82	. 2	0	1	13	115	
G 655 S	-	4 0	13						10		
H 651 S	3 1	3 0		103			0		19		
I 637 S?	0	10	1	0		. 1	0.	. 1	4	3595	
J 633 S	0	10	2	2	27	. 1	0.	1	0	3660	
LINE 618	(FLIG	HT 5)			•		•			
A 573 S	1	1 0		8	39	. 1	0	. 1	3	1398	
B 581 S	0 (60	21	87	169	. 1	Ο.	. 1	10	161	

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

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				AXIAL 00 HZ		LANAR DO HZ		LANAR DO HZ			ICAL . KE .		lontal Set	CONDUC EAR	
		•			REAL PPM			QUAD PPM			DEPTH*. M	COND MHOS		RESIS OHM-M	
	 NE	 618	(1	FLIGHT	r 5)				•		•				
C	584		0	2	0	4	14	5 9	:	1	0.	. 1	13	761	0
D	593		2		0	3	11	26		1	0.		26	755	-
F	598		4	11	Ő	14	70	94	•	1	0.		20	134	
H		S ?	0	2	0	6	9	54	•	1	0.	, 1	0	1223	0
	NE	619	c	FLIGHT	e 5))			•		•	•			
B	551		2		1	69	329	396		1	ο.	1	0	286	0
с	545	S	6	18	1	34	170	206		2	Ο.	. 1	0	393	0
D	540		5	24	2	53	251	297		1	0.	1	0	306	0
Е	531	S	1	5	0	17	57	133		1	Ο.	. 1	14	243	0
F	527	S	3	28	3	16	15	41	•	1	0.	1	19	553	0
G	524	S	3	8	4	25	25	38	•	2	0.	. 1	19	316	0
I	515	S ?	0	0	0	2	4	27	•	1	0.	1	23	2459	0
K	509	S	4	2	0	6	9	59	•	1	0.	. 1	1	1298	0
L	507	S	4	2	. 0	5	12	52	٠	1	0.	1	5	987	0
 LI	ne Ne	620	a	FLIGHT	r 5))			•			•			
в	447		3		2		128	227	•	1	0	. 1	6	432	0
c	450		8		13	80	374	73		2	0.		7	115	
D	453		4		9	72	392	410		3	0.	. 1	10	33	
E	455		Ō		2	23	64	207		1	0.	1	6	274	0
F	465		0	14	2	35	153	188		1	0.	. 1	11	444	0
G	472	S	5	7	11	27	134	24	•	4	13 .	. 1	32	111	2
H	484	S	0	1	0	4	6	26		1	0	. 1	22	1728	0
I	487	S	1	0	0	3	8	14	٠	1	20 .	. 1	53	991	18
J	492	S	1551	3	0	4	21	39	•	1	0.	. 1	11	481	0
	 NE	621		FLIGHT	r 5	`			•		•	,			
A	423		2		1		168	241		1	0	. 1	0	423	0
B	412		1		1	17	64	136		1	Ö,		13	184	
č	398		0	-	1	5				i	Ő,	1	23	491	ŏ
D	395		4	_	. 0	7	26			1	0	. 1	14	457	
F	388		3		4	20	96			2	Ŭ,	. 1	27	212	
G	379		1	5	1	7			•	1	0	. 1	8	504	
H	373		1	8	Ó	11	39			1	0.	. 1	12	326	
I	367		1	2	1	3	14	27		1	0	. 1	19	522	
		 600			n r				•		•	•			
	NE 317		،) 20	FLIGHT 24			230	214	٠	3	0	•	16	35	4
B										د ۸			15	33	
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G	543	. 5	4	σ	2	10	03	140	•	I	0	• •	13	•	4
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. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .

					XIAL 0 HZ		LANAR)0 Hz		LANAR DO HZ	-		FICAL IKE	•		zontal Eet	CONDUC EAR	
	.D/	INT	ERP		QUAD PPM	REAL PPM	QUAD PPM		QUAD PPM		COND MHOS	DEPTH* M		COND MHOS		RESIS OHM-M	DEPTH M
ī	IN	E (622	(F	LIGHT	' 5)				•			:				
I		346		1	3	0,	6	20	84		1	0	•	1	14	340	0
J		349		7	15	1	36	170	258	•	2	0	•	1	4	354	0
F	ζ.	353	S	3	19	0	52	207	394		1	0		1	1	304	0
M	1	359	S	2	13	0	44	96	166	•	1	0		1	13	112	0
-													•				
I	JIN	E	623	(F	LIGHT	5)							•				
A		290	S	8	5	1	10	33	79		1	0		1	8	339	0
E	3	284	S	0	11	1	27	125	202	٠	1	0	٠	1	11	99	0
E)	279	S	1	4	1	11	30	95	•	1	0		1	12	435	0
E	2	271	S	1	9	1	20	57	171	•	1	0	•	1	12	262	0
F	7	267	S	6	7	0	11	20	110	•	3	28		1	32	604	0
Ģ	3	262	S	3	6	2	17	57	135	•	1	0		1	20	126	5
E	I	258	S	1	5	9	14	70	84		2	3		1	21	94	7
1		256	В	12	5	10	14	70	84	٠	16	32	٠	1	53	89	21
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I	IN	E	624	(F	LIGHT	· 5)				•			•				
A	1	192	S	0	2	1	6	9	47		1	0		1	17	832	0
C	3	209	S	9	14	4	27	169	158	•	3	10	•	1	22	199	0
Ι)	210	B?	1	13	4	29	125	168	•	2	0		1	24	66	10
E	2	214	S	4	16	1	30	139	190		1	0	•	1	27	286	0
F	7	217	S	4	24	3	30	138	190		1	0		1	9	343	0
Ģ	3	221	S	2	15	_1	37	134	286	•	1	0	•	1	17	119	2

* ESTIMATED DEPTH MAY BE UNRELIABLE BECAUSE THE STRONGER PART .

. OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT .

. LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS. .



2F055E0086 2.7325 ROWAN LAKE

900

Mining Lands Section

File No 2. 1325

Control Sheet

TYPE OF SURVEY _____ GEOPHYSICAL _____ GEOLOGICAL _____ GEOCHEMICAL _____ EXPENDITURE

MINING LANDS COMMENTS:

2. Hurst

Signature of Assessor

Date

Nov SPC Ministryof Instructions: - Please type - Report of Work If number of mining claims traversed Natural (Geophysical, Geological, exceeds space on this form, attach a list. Resources 2.7325 Note: Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Geochemical and Expenditures) Mining Act 9.2 Do not use shaded areas below. Township or Area ROWAN M-2580 DEG PEW LAKE Prospector's Licence No. Type of Survey(s) HIRBORNE. GEOPHYSICS Claim Holder(s) RAYLLOYD RESOURCES LATA T-72 Address 20 QUEEN ST. W SUITE 1014 BOX 69 M5H 3R3 LORONTO Total Miles of line Cut 84 Yr 4 84 Mo. | Yr. | DIGHEM II SURVEY. address of Author (of Geo-Technical report) Name and Ad DIGHER LTO FRASER I ORONTO Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Special Provisions Days per Claim Mining Claim Expend. Days Cr. Mining Claim Expend. Geophysical Prefix Number Prefix Number Days Cr. For first survey: - Electromagnetic 729161 Enter 40 days. (This includes line cutting) - Magnetometer 729162 - Radiometric For each additional survey: 729163 using the same grid: Other .739164 **RECEIVED** Enter 20 days (for each) Geological 729165 CT 0 4 1984 Geochemical 729161, Man Days Days per Claim Geophysical 729167 MINING LANDS SECTION Complete reverse side - Electromagnetic 729168 and enter total(s) here Magnetometer 729169 Radiometric 729170 - Other 729171 Geological 729172 Geochemicai 729173 Airborne Credits Days per 729174 Claim Note: Special provisions Electromagnetic 40 MINING DIV. 729175 credits do not apoly EGEIVE to Airborne Surveys. Magnetometer 4D 729/76 Radiometric 729177 SEP 061984 Expenditures (excludes power stripping) 729178 Type of Work Performed 7 8 9 10 11 12 1 2 3 4 729179 . Performed on Claim(s) 729180 729182 729183 Calculation of Expenditure Days Credits Total Total Expenditures Days Credits \$ 15 Total number of mining K 718895 claims covered by this report of work. 22 Instructions Total Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected Total Day in columns at right. Sept. 06, 1984 Date Approved as Recorded Recorded Holder or Agent (Signature) 760 EPT51 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 CUREATZ PO Bex 1055, LL'AWA, Date Certified by (Signature 705) 85% 2476 1362 (81.9

Provided Report of Work Instruction: Pass type or print [25:5] Owner Geochemical and Experiditures (M Nov State Pass type or print [25:6] Owner Market in Computed and Experiditures (M Nov State Pass type or print [25:6] Owner Market in Computed and Experiditures (M Nov State Pass type or print [25:6] Owner Market in Computed in Computed and Experiditures (M Nov State Pass type or print [25:6] Owner Market in Computed in Comp						FWI	n					
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$\begin{array}{c} \mbox{treated} \\ \mbox{treated} \\$	Ontario				Null	The Mining	Act 2.	736		"Expendit in the "I	ures" section m Expend, Days (hay be entere Cr.'' column
SALLE D. B. HORES ENERGY CORP. 7/380 New Company No. Suite 100 Here Six 69 1/380 New Company DIGHER ST. W. Suite 100 Here Six 69 1/280 New Company DIGHER ST. W. Suite 100 Here Six 69 1/280 Dig Status 100 Here Six 60 Six 100 1/280 Dig Status 100 Here Six 60 Dig Status 100 1/280 Dig Status 100 Here Six 60 Dig Status 100 1/280 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Hold Status 100 Dig Status 100 Dig Status 100 Dig Status 100 For Status 100 <td>Type of :</td> <td>•</td> <td></td> <td>- 0 ,</td> <td></td> <td></td> <td></td> <td>·······</td> <td>Township</td> <td>or Area</td> <td></td> <td>*****</td>	Type of :	•		- 0 ,				·······	Township	or Area		*****
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Type of Survey(s) $\int \partial \rho \rho s \rho$.	1= Propula	101			Township	or Area	AKS G.	2670
Claim Holder(s)	DE GEOPITYS	/00 	···· · · ·	~	ISLC	Prospecto	r's Licence No.	
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DIGHER L	EEN ST. W. TO SURVEY.			22 Y Day Mo.	89 10 Yr. Day	7 84 Mo. Yr.		
Name and Address of Autho	r (of Geo-Technical report)						• • • • • • • • • • • • • • • • • • •	
redits Requested per Eac	SER DIGHEM	170 ight		aims Traversed (List in num	erical secu	ence)	
Special Provisions	Geophysical	Days per	N	Aining Claim	Expend.	N	Aining Claim	Expend.
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menutes me cutting)	- Magnetometer		and a second second Second second second Second second	638546	- <u>v</u>		638708	
For each additional surve	y: - Radiometric			638547	V		638709	·
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	 Magnetometer 			638672	V	an a	639160	
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xpenditures (excludes p	ower stripping)	<u></u>		638701	-		696215	
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Performed on Claim(s)	26060			638703			696217	
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Name and Postal Address of	Person Certifying				A			
J. CUREA	Person Certifying 72 BOX 56 - 2476	088	_WAW	A UNT. Date Certifier	10511	KD REOTTHING	by (Signature)	
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DIGIJEM Name and Address of Author				22 Mo.	84 10 VI. Day	7 84 Mo. Yr.	7	
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Enter 40 days. (This	- Electromagnetic		_K	440432		K	639495	
includes line cutting)	- Magnetometer			440433			639496	
For each additional survey using the same grid:	/: - Radiometric		د. مذکر از م	440434	,		639497	
Enter 20 days (for each	- Other			440435			639498	
	Geological		energia de la composición de	440436			639499	
	Geochemical			440437			639500	
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	O R AMagnetometer			1639208	V		639503	
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to Airborne Survey	s. Magnetometer	40		639487			63950	
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I hereby certify that I hav	a personal and intimate				rt of Work anni	exed hereto	, having performed	I the work
or witnessed same during Name and Postal Address of	and/or after its completion Person Certifying	h and the ann	nexed report	is true.				······
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D Name and	Address of Author	r (of Geo-Technical report)	/				_		
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inen	data mit tatting,	- Magnetometer			639519		$= \sum_{i=1}^{n} \left(\frac{1}{2} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{$	640611	·
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	ete reverse side er total(s) here	- Electromagnetic			6.395:25			704563	
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Name and	Postal Address of	Person Certifying		. 10		. ^			
\	J. CURE	Person Certifying EA72. BOX	1088	WHU	Date Certified	Pe	Certified)	by (Signature)	
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For first survey:	Electromagnetic		K	7.001		K	638538	
Enter 40 days. (This includes line cutting)	- Magnetometer			710.06				
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For each additional survey using the same grid:	- Other		29 a.c.	Here !			638540	
Enter 20 days (for eac	h)	ļ		16864			638541	<u>+</u>
	Geological			40065			638542	
Man Days	Geochemical	Days per		70000			638543	
Complete reverse side	Geophysical	Claim		718-867			638544	
and enter total(s) here	- Electromagnetic			718068			638552	
	 Magnetometer 			70869			638553	· .
	- Radiometric			2/8070	E .		638554	2
	- Other			718877	S		638690	
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Calculation of Expenditu e	M8191101111211121314	РМ		638536	55	y pr	638689	<i>ν</i> ′
Total Expenditures		2.5.		638537			638698	
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Instructions Total Days Credits may b	e apportioned at the claim	holder's	<u>K</u> T	TYPER	CORP.	report o		26
	days credits per claim select		Total Da	For Office Use vs Cr. Date Recorded	and the second	Mining R	lecorder	~~
			Recorded	" Sept (6/84	Ane	Lemay 10	ecting
Date	Reformed Holder or Agent i	(Signeture)		Date Approva	d as Recorded	Branch D	Director	
SEPT 5/84 Certification Verifying R	eport of Work	\sim	L	<u>l</u>			<u> </u>	J
I hereby certify that I have	v a personal and intimate				t of Work ann	exed hereto	, having performed t	he work
Name and Postal Address of	and/or after its completion Person Certifying							
JAC	CK CUREAT	Z P.	0.30	x 1088,	WAW.	A. OA	IT POSI	KO
[-al	CK CUREAT 1856-2476	/		Date Certified	r / au	Certific	by (Signature)	
1362 (81/9)	036-0716			UCPI.	5/89	$\neg \not $	un	

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Ministry of Natural	Report of Work (Geophysical, Geological,			ے ا	Instructions:	If number	of mining claim	5-89 is traverse
Ontario Resources	Geochemical and Expendi	tures)	×,		Note: -	Only days	ace on this form, a s credits calculat	led in the
	,		Mining	Act 2.7	1325_	in the "E	ures" section may Expend. Days Cr. shaded areas below	" columns.
Type of Survey(s)			~ ~ ~		Township	or Area		
Claim Holder(s) 1-11R	BORNÉ GEC T PLEADOWS ,	PITYSIC	25		1100	JAN	LAKEM	-2580
PALL	5 DIEADNIS	ANEPO	y Co	ορ		7	/380	
Address	1 10000000	O/VC/LO		<u> </u>	~	- i	1300	
Survey Company	QUEEN ST. M III- SURC hor (of Geo Technical report)	W. 50	ITE	Date of Surve	$\frac{30x^{-}69}{84 10}$, TORON	NTO ONT Total Miles of line	MSH 3R
Name and Address of Aut	hor (of Geo-Technical report)	VEY		Day Mo.	Yr. Day	Mo. Yr.	e and a composition	
D.G. FRI	ASER DIGITE	m Li	DTO	RONTO,	ONT			
Credits Requested per E	ach Claim in Columns at r	ight	Mining C	laims Traverséd	(List in nume			
Special Provisions	Geophysical	Days per Claim	Prefix	lining Claim Number	Expend. Days Cr.	M Prefix	ining Claim Number	Expend. Days Cr.
For first survey:	- Electromagnetic		K	TIDANA	c	K	719991	SRANT
Enter 40 days. (Thi includes line cutting	-			710011	25		710 3 31	
	- Radiometric			71887 6	1	in a digentinal Antonio antonio Antonio antonio antonio	727357-	-
For each additional sur using the same grid:	vey:			718845	Si	a da ser a ser Ser a ser	729332	126
Enter 20 days (for e	each) - Other			718844			221335	43
	Geological			718815	200		729334 (0	
	Geochemical		172 1	718846	ST REST		729335	1×
Man Days	Geophysical	Days per Claim		71000	Up P		710226	
Complete reverse side	- Electromagnetic			778077			7:02-7	
and enter total(s) here				7130757			727037	\$
	- Magnetometer	4		78879		in an	729338- X	
	- Radiometric			718850	°L		729339	"ISE 11
	- Other			78851-	₹.		7 19340)	
	Geological		ې يولې د مد د. محمق د مو د د	210802	×.	a sana a sa	440 438	
	Geochemical			710002			111. 001	
Airborne Credits		Days per		40000 J	<u>_</u>		440421	
		Claim		218854	1010		440422	
Note: Special provision credits do not a		40		78855 6	R PNSEC		440423	
to Airborne Sur	veys. Magnetometer	40		718856 KO	WALSKI		440424	
	Radiometric			229155			440425.	
	power stripping)			299756	TULAS		440426	
Type of Work Performed	MINING DIV.	F		710			440427.	
Performed on Claim(s)	DEMENVE			718957	1555. 18957	N		
	SEP 06 1984		in the second	11000	1842	iele	440428	
	AM	PM		++8858	Gig a	Jun at	.440429	
Calculation of Expenditur	7 8 9 10 11 12 1 2 3 4	A COLORED AND		778859	Tiz se	a some	440430	
Total Expenditures		Total s Credits		718860	2 3 N		440431	
\$	÷ 15 =		K	4403	01	alaims co	nber of mining vered by this	12
Instructions	y be apportioned at the claim I	older's	<u> </u>	1100	- /	report of	work.	40
	of days credits per claim select		Total Day	For Office Use s Cr. Date Record	the second s	Minileg Re	acorder (
in columns at right.		i	Recorded		184	ane	Loman	Teting
Date SEPTS/84	Recorded Holder or Agent	Gignature)			ed as Recorded	Branch bi	rector	7
Certification Verifying	والمحدد الالمكار كاليهاد كالمكر بالمحد والمحد والمحد			······				······
I hereby certify that I or witnessed same duri	have a personal and intimate A ng and/or after its completion	nowledge of t and the anne:	he facts set xed report i	forth in the Repo s true.	rt of Work anne	xed hereto,	having performed	the work
Name and Postal Address	of Person Certifying			0.10	0.1-		····· ································	
U	KETTZ BO	x 1088	W	Date Certifie	/ //	Chined	by (Signature)	
70	REATZ BOI 05-856-2476			SEPT	5/84	DA	real	
1362 (81/9)						T		1

Natural Resources (Geo	ort of Work physical, Geological, chemical and Expendi	tures)	Mining	7	 325	Do not use sha	mining claim on this form, a redits calcula ' section may nd, Days Cr.	hs travers d attach a list. ted in the be entered " columns.
AIR BORN	E SURU	EY.			DAA	PAN L	AKE G	.2613
SAULT N	AEADOWS .	ENTR	Gy Cc	RP.		TI	380	
Claim Holder(s) Address 20 QUP Survey Company DIGHEM Name and Address of Author (c 00 ERAS	en St. W TTL SURUE (Geo-Technical report) ER DIGHE	. Su Y	TO TO	Date of Survey Day Mo.	69 TC (from & to) 84 /0 Yr. Day O 01T	DRONTO (> 84 Tota Mo. Yr.) NT Miles of line	<u>5 # 3 E</u> ^{Cut}
Credits Requested per Each	Claim in Columns at r	ight	Mining C	laims Traversed (List in num	erical sequence)	
Special Provisions	Geophysical	Days per Claim		lining Claim Number	Expend. Days Cr.		g Claim Number	Expend. Days Cr.
For first survey:	- Electromagnetic		K	440372				
Enter 40 days. (This includes line cutting)	- Magnetometer			440373	+			
F	- Radiometric							
For each additional survey: using the same grid:	- Other			440374				
Enter 20 days (for each)				440375			And a first set of the second second second second	
	Geological			696116		- Constraint of the Constra		
Man Days	Geochemical		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	696119	ļ			
-	Geophysical	Days per Claim	and the second sec	696120				
Complete reverse side and enter total(s) here	- Electromagnetic			696124		a da anti-anti- a de servicio de la composición de la c a composición de la c		
	- Magnetometer			696122				
	- Radiometric		an a	696123				
	- Other			1	11		nan an ini an	
	Geological			696124	+			
				696200			na (naine an	
Airborne Credits	Geochemical	Days per		696201				
		Claim		696202				
Note: Special provisions credits do not apply	Electromagnetic	40		696206				
to Airborne Surveys.	Magnetometer	40		696207				
and a second	Badiometric	· ·		696208				
Expenditures (excludes pow	er, stripping)			696210				
Type of Work Performed	GLIVE M			696211			Ç.	1 X.
Performed on Clairned S	P 0 6 1984					and a star for the second s The second se The second se The second	Serve Valo	
AM 7 8 9 10	111121123456					5	Marker	
Calculation of Expenditure Day		Total					þ	
Total Expenditures) ÷ [15] = [s Credits	V	440 30		Total number		
Instructions		halder's	~	· · · · · · · · · · · · · · · · · · ·		report of wor		19
Total Days Credits may be a choice. Enter number of day in columns at right.			Total Day Recorded	For Office Use (s Cr. Date Recorded		Minting Record	der	1.7 '
Dept. 5/846	corded Holder or Agent (Signature)		Date Approved	as Recorded	Branch Direct	semay /	acting
Certification Verifying Rep I hereby certify that I have		nowladaa	the facts act	forth in the Base-t	of Work an-	eved hereta have	ing performed	the work
or witnessed same during an					UT TAOLK SUD	and Heretu, Hav	us herrorined	THE WOLK
Name and Postal Address of Pe	rson Certifying	~~~	Pr D	inde	1.100		Pac.	
\downarrow \checkmark HCK	CUREAT	<u> </u>	. U. O	Date Certified	WAU	Crtified by (POS / Signature	<u>N 0</u>
(705) 856	CUREAT - 2476			Dept.	5784	1 La	<u>ea</u>	>

Natural Resources (Geo	ort of Work ophysical, Geological, chemical and Expendi	tures)	Mining	0		exceeds space Only days	or print. of mining clai e on this form, credits calcul es" section ma pend, Days C haded areas belo	ms traversed , attach a list, lated in the
Type of Survey(s)					Township	or Area		l
	RBORNE 6		SICS	· · · · · · · · · · · · · · · · · · ·	DDE	Prospector's	Licence No.	12013
Address SAULT	MEADOWS	5 Er	ERGY	CORP.		T13		
Survey Company	en st. w n TII Su	. <i>Su</i>	ITE I	014 Box Date of Survey	69, 7 (from & to)	TORONTO) ONT /	nsH3R3
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Credits Requested per Each	ER DIGHE	m 4		laims Traversed		erical seguen		
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For first survey:		Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	- Electromagnetic		<i>K</i>	704675				
includes line cutting)	 Magnetometer 			704676				
For each additional survey:	- Radiometric			704677				
using the same grid: Enter 20 days (for each)	- Other			704678				
	Geological			704679				
	Geochemical				-	and the second sec		
Man Days	1	Days per		704680		-		
Complete reverse side	Geophysical	Claim		704681		and a set of the set o		
and enter total(s) here	- Electromagnetic			704682				
	- Magnetometer			704683				
	- Radiometric				×			
	- Other		يەر بەر يەر بەر يەر يەر يەر يەر يەر يەر يەر يەر يەر ي					
	Capital				-			
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Airborne Credits		Days per Claim						
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credits do not apply to Airborne Surveys,	✓. Magnetometer	40						
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Expenditures (excludes pow		l						
Type of Work Performed	MINING	RA					/	
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Performed on Claim(s)		W 🖬 🛛				R	W. W	
	St.P 06	1984				C Ser	Jer	
	AM 7181911011.10.4	Do P	"		-	τų τ ^α		
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Instructions	enertioned at the claim I					report of w	/ork.	<u> </u>
Total Days Credits may be a choice. Enter number of day in columns at right.			Total Day	For Office Use		Mining Rec	Arder -	,
in columns at right.			Recorded		"h lay	me	Loma	Astin
Date	porgeti Holder or Agent (Signature)	1	Date Approve	d a Recorded	Branch Dire	ector	ming
Dept 5/84	Hinex	•					<u> </u>	
Certification Verifying Rep								
I hereby certify that I have a or witnessed same during an	•	-		•	t of Work ann	exed hereto, h	aving performed	J the work
Name and Postal Address of PA	son Certifying						\sim	
JACK	CUREATZ	_, Bo	<u>ox 10</u>	88, W,	AWA,	ONT.	1-05 11r	<u>′0</u>
(205)-5	CUREATZ 56-2476	·		Date Certified	-10a	Certured by	y (Signature)	
1362 (81/9)	00-0710			gulpt.	»/ 8 7	the	unt-	•

Natural Resources	Report of Work Geophysical, Geological, Geochemical and Expendi	tures)	Mining	1	Note: - 7325_	Please type or print. If number of minin exceeds space on this Only days credits "Expenditures" secti in the "Expend, D Do not use shaded are	g claims traversed form, attach a list, calculated in the on may be entered ays Cr." columns.
AIF	BORNE SURV	εY			Township	or Area PAW LAI Prospector's Licence	G.2613
Claim Holder(s)	-	•	1 days	. (²			
Address	IT ATEADO			,	-		
Name and Address of Autho	Super ST. W EM TIT Su r (of Geo Technical report)		/				MSH 3R3
DG.I	RASER D	IGHE	m 1.1				
Credits Requested per Ea Special Provisions		ight Days per	the second s	laims Traversed (I lining Claim	List in nume Expend.	erical sequence) Mining Claim	Expend.
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includes line cutting)	 Magnetometer 			639460			
For each additional surve	- Radiometric		an a	639461			
using the same grid: Enter 20 days (for ea	- Other			639580			
	Geological		and a second	639581			
	Geochemical			639582			
Man Days	Geophysical	Days per	ر رسطی انداز				·
Complete reverse side		Claim		639583			
and enter total(s) here	- Electromagnetic			704684			
	- Magnetometer			704685	·	Statistics and the second s Statistics and the second sec	
	- Radiometric			704686	<u>`</u>		
	- Other			704687			
	Geological		1	704688		 Colling for Reserved and the second se	
	Geochemical			704689			
Airborne Credits		Days per Claim		704690			
Note: Special provisions	Electromagnetic	40		704691			
credits do not app to Airborne Surve	·	40		1			
	Radiometric	10		704692		· · · · · · · · · · · · · · · · · · ·	
Expenditures (excludes p		<u> </u>		704693			8,
Type of Work Performed	Mining	RA	-	704694	·	Call Me providence	S. S
Performed on Claim(s)	2 5051			7046.95		ton the	M*
				704696		O'NE	
	AN	1984		704697		5 So	
Calculation of Expenditure	17.9.0.40	2315	3				
Total Expenditures	Day	s Credits	<u>u (</u>			a da angla ang ang ang ang ang ang ang ang ang an	
\$	÷ 15 =		V	44030	1	Total number of min claims covered by th	
Instructions Total Days Credits may I	be apportioned at the claim I	holder's				report of work.	~
	days credits per claim select			For Office Use C		Mining Recorder	
			Recorded	Sept	5 Recorded	MELE	may/actin
Date Supt. 5/84	Pocorded Holder or Agent (Signature)		Date Approved	s Recorded	Branch Director	// /
Certification Verifying F							
	vera personal and intimate k and/or after its completion				of Work anne	exed hereto, having per	formed the work
Name and Postal Address of TACI	Person Certifying	rz F.	?0. Bo	× 1088. (WAW,	A ONT. P	osiko
(main	< Сикент 856-ачть		· · · ·	Date Certified		Contified by (Signati	ure)
(103)	000-0416			Nept:	5/84	June	9

Ontario	(Geo	ort of Work physical, Geological, chemical and Expendi	tures)	/O The Mining			 Please type or If number of exceeds space Only days c "Expenditures in the "Expe Do not use sha 	mining clair on this form, redits calcula	attach a list. ted in the
Type of Survey(s)						Township	or Area	, 6	-2621
		RBORNE S		1		HE	Prospector's L	icence No.	<u>e</u> ~~/
Sn	ULT	MEADOW	s E	NERGY	CORP	******	T13	80	
Address	0110		.C.		1 Box 1	9 Top	A		
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For first survey:			Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days, (1 includes line cut		- Electromagnetic		K_					
	ling,	- Magnetometer			696107				
For each additional using the same grid:		- Radiometric			696108				
Enter 20 days (fe		- Other			696109				
		Geological			696110				
		Geochemical			696111				
Man Days		Geophysical	Days per Claim		696112				
Complete reverse sic		- Electromagnetic		a serva e serva e fa melo serva	1 .				
and enter total(s) he	ere	- Magnetometer			696113	+			
			· '		696114	+			
		- Radiometric			696115				
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		Geological		• • • • • • • • • • • • • • • • • • •	69.6.118	_			
		Geochemical			696125	1			
Airborne Credits			Days per Claim		696126				
Note: Special provis		Electromagnetic	40		696196				
credits do no to Airborne S		Magnetometer	40		696197				
		Radiometric			1			h	
Expenditures (exclud	des pow	er-stripping)			696198	<u>+</u>			
Type of Work Perform		MINING DIV			696190	/			
erformed on Claim(s)		3 to to to W	$\overline{\mathbb{H}}$				(<u>y y</u>	
·		.U SEP 0.6.19	84				50	MY	Contraction of the second
		AM	р,,	in dae se Bara Bara Bara Bara Bara Bara Bara Bara	ļ		5.90 Junio		
Iculation of Expandi		7.8.9.16.31.19.1.9.	314:516						
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\$		÷ 15 =		K	4403	01	Total numbe claims covere report of wo	d by this	17
		pportioned at the claim I			For Office Use			L	
choice. Enter numb in columns at right.	-	s credits per claim select	ed	Total Day Recorded	/s Cr. Dage Recorded	d /	Mining Recor	der	1
(<u>)</u>			Classic		sem.	6/84 d as Recorded	Branch Direc	temay	1acting
Date Sept. 5/8	41	coded Holder or Agent (iyna(ure)] [/
Certification Verifyi		personal and intimate k	nowledae o	f the facts set	forth in the Report	t of Work ann	exed hereto, hav	ing performed	the work
or witnessed same d	luring an	d/or after its completion	and the ani	nexed report i	s true.				
Name and Postal Addre		son Certifying UREATZ, 2476	P. O.	Box	1088 h)AWA	ONI.	Posi	C0
1700 0	i m	7//5/			Date Certified	10.	Con by	(Signature)	
1 (105) 8	36-	dy16			Kkpt	1/84	1 Jan	real	•

Ministry of Rer	ort of Work		EV	um u	nstructions: –	- Please type	6 7 84	Nov:5
Natural ICo	ophysical, Geological,		r •	•••)	-	- If number	of mining claims	
	chemical and Expendi	tures)		0720	25 ^{Note:} -		credits calculati	ed in the
	١	1		2.750	× J	"Expenditu	res" section may xpend. Days Cr.'	be entered ' columns.
	14	<u>.)</u>	The Mining	Act		- Do not use	shaded areas below	
Type of Survey(s)	C- Cul				Township		10	= 7/12
AIRBURNE	OFOLAD	1CS				Prospector	LAKE C	2.2013
	AMERON LA					T	480	
Address								
20 Quee	n ST. W.	Suit	te 1014	1. Box 69	, TORO	NTO DI	NT MSH	323
				Date of Survey	(from & to)	7 84	Total Miles of line	Cut
DIGHEM III	SURVEY			22 4 Day Mo.	Yr. Day	Mo. Yr.7	<u></u>	
D.C. FRASEK	• •		Tim	NTO ONT	-			
redits Requested per Each	Oight E Pi Claim in Columns at r	ight		aims Traversed (perical seque	nce)	
pecial Provisions	Geophysical	Days per	the second s	lining Claim	Expend.	M	ining Claim	Expend.
For first survey:		Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	- Electromagnetic		K	440332		K	704502	
includes line cutting),	- Magnetometer		in the second	440333			704503	
Man and additional according	- Radiometric						······	
For each additional survey: using the same grid:		l		440334			704504	+
Enter 20 days (for each)	- Other	 		440 335	_ _]		704707	
	-Geological	-	97700	440336			704708	
	Geochemical			440337			704709	
Nan Days	Geophysical	Days per						-
Complete reverse side	Geophysical	Claim	**************************************	440338		- 1. State Franking	704710	
and enter total(s) here	· - Electromagnetic		and an	440350			704711-	
	- Magnetometer			440 351			704712	
	- Radiometric		. Car 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					-
			وي م محمد مربع محمد م	440352			704713	
	- Other	L		440353		X	704714	
	Geological			440354			704715	
	Geochemical			440355				
Airborne Credits		Days per					704716	
		Claim		440356				
Note: Special provisions	Electromagnetic	40		440357				
credits do not apply to Airborne Surveys,	Magnetometer	40		440358				
	Radiometric					REC	CEIVED	/
xpenditures (excludes poly		<u></u>		440359				
ype of Work Performed	Net stripping/inc Div			440360		.00	041984	A
	2 BUGIV	EN		440361				2P
erformed on Claim(s)	SEP 06 19	81 U				MININGS	LANDS SECT	ION
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	71819110111121121	3.1.5.PM		440363			<u></u>	<u>n</u>
alculation of Expenditure Day				440364			Nº 10	
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				1				
\$	÷ [15] = [K	4033	2 2	claims co	nber of mining vered by this	35
structions						report of	work.	<u> </u>
Total Days Credits may be a choice. Enter number of day				For Office Use				
in columns at right.			Total Day Decorded	Soot Of	1934	Mining Re		Tree
ate / Re	Borded Holder or Agent (Signatural	1 2800	Date Approve			Lemay	un
Vier HOUR		L L						
ertification Verifying Rep	ort of Work	<u> </u>				<u>_</u>	<u> </u>	
I hereby certify that I have		nowledge o	f the facts set	forth in the Repor	t of Work and	nexed hereto,	having performed	the work
or witnessed same during an	d/or after its completion							
lame and Postal Address of Pe	rson Certifying		ρ_{n-2}	. 1000	1.10.	1,0,1	T D.r	11-
	E LUREA.	12,1	-0.100	X /C 3X	<u>ريز به در الم</u>	L M () /	by (Signature)	MA
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			EWM			Nor	15th ++ 1	97 0
	ort of Work			١٢		- Please typ	e or print. 777/ of mining claim	11-8
	ophysical, Geological,						-	
Ontario Geo	chemical and Expendi	itures)		073	Solution -	 Only day "Expendit 	ace on this form, s credits calcula ures" section may	ted in the
· 🖤		G.n.	Mining			in the t	expend. Days Cr	. columns
Type of Survey(s1		18	armining			- Do not use	snaded areas belo	w.
HIR 3CR	NE GERDA	48105			DO	SPALL	LAKE G	-2613
Claim Holder(s)						Prospecto	r's Licence No.	
Sai	STREAMSIDE	E RE	SOURCE	23		T_{I}	536	
Address					10		.	
20 QUEEN ST WA	SI. SUITE 1	014 1	BOX 69	Date of Survey	$\frac{1}{2}$	<u>/ · </u>	Total Miles of line	5 <u><</u> Cut
NICHEM I	T SURNEY			22 4	84 10	7 84		
DICHEM III	of Geo-Technical report)							
D.C. FRASE	1 DIGHEN	. 170	TORO	NTO ON	Σ			
redits Requested per Each	Claim in Columns at r	ight	Mining C	laims Traversed (-1
pecial Provisions	Geophysical	Days per Claim	Prefix	tining Claim Number	Expend. Days Cr.	Prefix	lining Claim Number	Expend. Days Cr.
For first survey:	- Electromagnetic		K	ERCLOC	CANCELL	=0 V	70.157	
Enter 40 days. (This includes line cutting)	- Magnetometer			376600		- A.	700652	
0.	- Magnetometer			668923	· · · · · ·		700653	
For each additional survey:	- Radiometric			668924			700654	
using the same grid: Enter 20 days (for each)	- Other			668925			700655	
Lintor Eo doya (iOr catil)	Geological				-			
				668926			700656	
Man Days	Geochemical			668928			700657	-
viair Days	Geophysical	Days per Claim		1668929		الله المحالية المحالية المسالمة المسلحة المسلحة المسلحة المسلحة المسلحة المسلحة المسلحة المسلحة المسلحة المسلح المسلحة المسلحة	700658	
Complete reverse side	- Electromagnetic			700636	V		700659	
and enter total(s) here	Managatamatar			,			70000	
•	- Magnetometer			700637		يوني ويوني کيوني موجود کيوني		
	 Radiometric 			700638				
	- Other			700639		13.4		
	Geological		والمعادية والمع					
				700,640		Ď	ECEIV	ED
	Geochemical			700641			L GHIV	
Airborne Credits		Days per Claim	1.1	700642			OCT 0 4 19	24
Note: Special provisions	Electromagnetic	43		700643				
credits do not apply	Magnetometer							TION
to Airborne Surveys.	iviagnetometer	40		700644		MIN	NG LANDS	SEVIIVI
	Radiometric			700645			Ge-	
xpenditures (excludes pow				700642			and	
Type of Work Performed	MINING DI						X	•
Performed on Claim(s)	REGEN	¥ <u>3</u> }		700647			A AND	
	SEP 06	108/ 1		700648			- M (P)	
	AM	1.7174		700649			P	
	71819101112119	2:2.4.5.C		700650		122	1	
Calculation of Expenditure Day		Total		1			H	
Total Expenditures		rs Credits		700651		1 A 4 4 4 1	1	
\$	+ + =]	/	1891	72		mber of mining overed by this	190
nstructions				0010	κ J	report of		<u>- 20</u>
Total Days Credits may be a choice. Enter number of day	, -			For Office Use				<u> </u>
in columns at right.	· · · · · · · · · · · · · · · · · · ·		Total Bay Recorded	rs Cr. Date Recorde	1 lau	Mining R	ecordo	ton
	\bigcirc	·		Sept	6189	FILE	demay /	alling
Nort 5/84	corded Holder or Agent (Signature	19400	Date Approve	u as Necorde	d Branch L		/
	Hucea	،						
ertification Verifying Reputer		nowledge	of the facts set	forth in the Renor	t of Work an	nexed hereto	having performed	the work
or witnessed same during an								
Name and Postal Address of Pe	rson Certifying		0 -			· · · · · · · · · · · · · · · · · · ·	- 17	
NACH	CuREA Sh-2476	T2 ,	70 B	Cx 1088	<u>(()</u>	4cert C	NT POS	IKU
1-1-1 -	7 7		-	Date Certifie	d 	Cerre	lby (Signature)	
1 / 2 2 1 A	36-08476			<u>PY2,0</u> *	5/144	-1 (#	usal	

		۴	= um			Noust
Ministry of	Report of Work			Ins	tructions: -	Please type or print # 204-84
Naturai	(Geophysical, Geological,				-	If number of mining claims traversed
	Geochemical and Expendi	tures)		1732	25 Note: -	Only days credits calculated in the "Expenditures" section may be entered
		١		di 1-0		"Expenditures" section may be entered in the "Expend. Days Cr." columns.
	(1.4	Mining	Act		Do not use shaded areas below.
Type of Survey(s)		• ,			Township	or Area
e, r	xine Gra	DVISIC	<u> </u>		<u> </u>	cuan hake M-2580
Cial in Holder St	Kowalski	,				Prospector's Licence No. D 18539
Address .	to the second seco	-				and an an and a second s
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Survey Company				and the second se		
Dig	hem TIL S	rvey		Date of Survey 2.2 4 Day Mo. 1	ZH 10	7 84
Name and Address of Auth	or (of Geo-Technical report)					
D. G.	Fraser, Dig	nem h	im red	, lorantu,	Ontar	10
	ach Claim in Columns at r	ight		aim <mark>s Trave</mark> rsed (L		
Special Provisions	Geophysical	Days per Claim	Prefix	ining Claim Number	Expend. Days Cr.	Mining Claim Expend. Prefix Number Days Cr.
For first survey:	- Electromagnetic		KI			
Enter 40 days. (This		janar - na mana	<u> </u>	718841	f	
includes line cutting)	- Magnetometer		$e \rightarrow e^{-1}$	718842		
For each additional surv	ev: - Radiometric			718843.		
using the same grid:	- Other				<u> </u>	
Enter 20 days (for ea	ich)		and the second s	218845	f	
	Geological			712249	\mathbf{F}	RECEIVED
	Geochemical			713850.		$(1, \dots, 2^{n})$
Man Days		Days per				OCT 0 4 1984
0	Geophysical	Claim	يې پېښې د مېروند کې د د د مو د د	118851	f	
Complete reverse side and enter total(s) here	- Electromagnetic			718852.		NING LANDS SECTION
	- Magnetometer				1 /11	NING LANDO SCOTION
				712853		
	- Radiometric			718856.	ł	-
	- Other			118858		
	Geological					
	Geologica			713859	I{	
	Geochemical			712860	ł	Join in March
Airborne Credits *		Days per Claim		129337.		No No be
Note: Special provisions	Electromagnetic					- 5, 111 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
credits do not app	-	40		729338	1	8,13,40
to Airborne Surve	eys, Magnetometer	40		729339	Y	K L CER Del 3
	Radiometric			729340	Ł	
Expenditures (excludes p	power stripping)	J				N alle
Type of Work Performed				719279.		1.3.
				719230		
Performed on Claim(s)						N 19
				719221		
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	David On 19			1		5 5
Calculation of Expenditure		Total			11	
Total Expenditures	Day	s Credits				
\$	+ 15 =			10011		Total number of mining
Instructions			· 1	1884	/	claims covered by this 20
, , ,	be apportioned at the claim			For Office Use C	Dnly	
in columns at right.	^r days credits per claim select	ect		S Cr. Date Recorded	1	Mining Recorder
	<u></u>	Xn	Recorded	Sept 1	8/84	(ME Lemay lactor
Dare	Recorden Holder or Asenit	Signăture)	1600		ad Recorded	Branch Director
Sept. 11/84	S. Evanyk	;				Δ
Certification Verifying F	and a second					· · · · · · · · · · · · · · · · · · ·
					of Work ann	exed hereto, having performed the work
	g and/or after its completion	and the ann	exed report is	true.		
Name and Postal Address o	t Person Certifying	\sim	<	I lat Ta	~~ ++-	Outrinin MSH 3031
5 to Vany		ic Qu	Ren C	Date Certified	10110	Certified by (signature) S. almylu
(4. N 3	3,34				1174	S. H. andles
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VIII Natural	Report of Work	۹ -		Instr			type or print. The mining of mining	
VJ Resources	(Geophysical, Geological, Geochemical and Expendit	· • • • •		-00		exceeds	ds space on this for days credits call	orm, attach a list.
	Geochemical and Expose.	Turesi 7.6m	م Mining A	Q.7325	2	"Expen in the	enditures" section e "Expend. Days	may be entered s. Cr.7. columns.
Type of Surveyis:			49303111-5	<u>λατ</u>		ip or Area	•]
	ine Geochysic						ian Lake	
David	Alexander (Grant			Maria - Film onto a construction of	A	7 4:02 3	37
A 701635	7 Vale Riad,		raz (ALIIIwad	I. B	< C	12P 2P	۳ (۲
• .	-			Date of Survey (f	from & to)	· <u>·</u> ··	V2P 2P Total Miles of	Cline Cut
Dighe, Name and Address of Aut	thor (of Geo-Technical report)	17		12 4 20 Day Mo. Yr				
D C .	Fraser, Digh	nem hin						
	Each Claim in Columns at ri	right	Mining Clai	aims Traversed (Li	list in num		equence)	
	Geophysical	Days per Claim	Min Prefix		Expend. Days Cr.	Prefix	Mining Claim fix Number	r Days Cr.
For first survey: Enter 40 days. (This			K	118844		1		
includes line cutting				718845	-			
For each additional surv	rvey: - Radiometric			712846	-		,	
using the same grid: Enter 20 days (for e	- Other			1078511 12847		1. 1. 20		
Enter 20 days see	each) Geological			71224		1].	REC	EIVED
	Geochemical					1 - Barry		
Ntan Davs	Geophysical	Days per		718255			· [0 4 1984
Complete reverse side	Electromagnetic	Claim		7.2857		1		
and enter total(s) here				713394	t1	1	MINING LA	ANDS SECTION
	- Magnetometer			739831			s	
	- Badiometric			724202		1		
	- Other			7,84 33 1				
	Geological			724324	/	[]	1	
·	Geochemica			724335			, or	N. C. S. L.
Airborne Credits		Days per Claim		7293312			ALL INITAL	" 198" 1 50
Note: Special provision	, , , , , , , , , , , , , , , , , , ,	40		721555		11/		NO 4-13
credits do not ap to Airborne Surv		40		73915L		1 1 1	· L St	Soc. S.
 i	Radiometric	7					V-3 pt	tonia.
Expenditures (excludes				729157		1	1.40	
Type of Work Performed				729152		1	A LEAN	ý
Performetion Claim(s)				739150		1	Jan	x.
· · · · · · · · · · · · · · · · · · ·				729160	1	1	J. S.	Key
· · ·			Ļ		ļ	4	Gy wy	
Calculation of Expenditure]		Υ •	
Toral Expenditures		Total vs Credits		J				
S	+ [15] = [C7/	ICALL.			al number of mining ms covered by this	1.00
Total Days Credity pray			1	18841			ms covered by this ort of work.	20
choice. Enter number o	iy be apportioned at the claim h of days credits per claim selected	3	Total Days	For Office Use Or	nly	Minj	ng Becurater	
in columns at right.			Recorded	Sept 1	18/84	UM	nr Lemai	4 Beting
Paren + 11/2	Recorded Holder or Agent ((Signature)	1600	Date Approved :	as Recorde	led Branci	ch Diregtor	
2007 11/34		<u></u> ,	L	/			X	
Certification Verifying	1 Report of Work 11 have a personal and known i ko	Leaseledge of t	the facts set f	forth in the Report /	of Work ar	nog Xang ting	er to, the leg pector	r se étae viark
or water at such durin	ang and/or after us que center to				/)		····	·
Marine Patro Attense Storperson	Conf Parson Certifylog Standard Frankright	· ?	· · · .	X - X	Sec.	14	v v™l ti	na ti stati
		iii i saki	$(X, \Sigma_{i}) \in P^{*}_{i}$	Dare Le stad	. -		مر به ونو رو مو ا	ana an an taona an a
		-			*.* 			

Natural	Work Credite		File 2.7325
	es WORK Credits <u>AMENDED</u>	Date 1985 02 21	Mining Recorder's Report of Work No. 195-84-1
Recorded Holder	SAULT MEADOWS ENERGY CORP		
Township or Area	HERONRY LAKE AREA		

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 14 Electromagnetic days	
Magnetometer days	K 440301 to 306 inclusive 440396 to 399 inclusive
Radiometric days	440401 639532 to 536 inclusive 639598 to 600 inclusive
Induced polarization days	696038 to 043 inclusive 696212-13-20-21
Section 77 (19) See "Mining Claims Assessed" column	704672-74
Geological days	
Geochemical days	
Man days Airborne 🛛	
Credits have been reduced because of partial	
coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following r	nining claims
	•
No credits have been allowed for the following mining o	
not sufficiently covered by the survey	Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60: 929 (80/6)



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Technical Assessment Work Credits

Date	B			
	1985	02	07	

2.7325 Mining Recorder's Report of Work No. 105 04 0 195-84-2

File

Recorded Holder SAULT MEADOWS ENERGY C	î î î î î î
Township or Area BROOKS LAKE AREA	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 14 Electromagnetic days	
] 4 Magnetometer days	K 638545 to 551 inclusiv 638671 to 679 inclusiv
Radiometric days	638700 to 710 inclusiv 639154 to 156 inclusiv
Induced polarization days	639158 to 167 inclusiv 696215 to 218 inclusiv
Other days	
Section 77 (19) See "Mining Claims Assessed" column Geological days	
Geochemical days	
Man days 🗋 🛛 Airborne 🖾	
Special provision Ground Ground	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following min	ing claims
No credits have been allowed for the following mining clair	ms

not sufficiently covered by the survey

Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77 (19)-60: 828 (83/6)



Date			
1985	02	07	

2.7325 Mining Recorder's Report of Work No. 195-84-3

File

ns Assessed
2 to 439 inclusive 3-09-10
3 to 517 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60: 828 (83/6)



Mining Recorde
Work No. 1

2.7325 order's Report of 195-84-4

File

Recorded Holder		
SAULT ME	ADOWS ENERGY CO	DRP
Township or Area ROWAN LA	KE AREA	
Type of survey and numbe Assessment days credit per		Mining Claims Assessed
Geophysical		
Electromagnetic	<u>14</u> days	
Magnetometer	<u>14</u> days	K 639518 to 531 inclusive 640238-39
Radiometric	days	640244 to 248 inclusive 640236
Induced polarization	days	640610-11-12 704553-58-63
Other	days	639157
Section 77 (19) See "Mining Claims An	ssessed" column	
Geological	days	
Geochemical	days	
Man days 🗋	Airborne 🛛	
Special provision	Ground 🗖	
Credits have been reduced be coverage of claims.	ecause of partial	
Credits have been reduced beca to work dates and figures of app		
Special credits under section 77 (16)	for the following mini	na claims
No credits have been allowed for the	following mining alaim	ne
not sufficiently covered by the surve		ufficient technical data filed
- Hor solutionity covered by the surv	(11) ہے۔	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19)—60: B28 (B3/6)



Date				
	1	985	02	07

2.7325 Mining Recorder's Report of Work No. 95-84-5

File

Recorded Holder					
	SAULT	MEADOWS	ENERGY	CORP	
Township or Area					

ROWAN LAKE AREA

Electromagnetic 6385 6385	535 to 544 inclusive
Electromagnetic 14 K 6385	
14 days 6380	552-53-54
0380	690 to 697 inclusive 680-89-98-99
Radiometric days 4403	384
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 Airborne 🔀	
Special provision 🛛 Ground 🗔	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
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	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60:

828 (83/6)



Date 1985 02 07 Mining Recorder's Report of Work No. 195-84-6

2.7325

File

Recorded Holder SAULT MEADOWS ENERGY	CORP
Township or Area	CONF
ROWAN LAKE AREA	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 14	
Electromagnetic days	
] 4 Magnetometer days	K 440420 to 431 inclusive
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 🛛 Airborne 🛛	
Special provision 🗌 Ground 🗖	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following n	nining claims
No credits have been allowed for the following mining c	laims
not sufficiently covered by the survey	Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60: 828 (83/6)



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Technical Assessment

Work Credits

Date 1985 02 07 Mining Recorder's Report of Work No. 195-84-7

2.7325

File

Recorded Holder SAULT MEADOWS EN	ERGY CORP
Township or Area DOGPAW LAKE AREA	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic] 4 da	ays
Magnetometer 14 da	K 440372 to 375 inclusive 696116
Radiometric da	COCIIO to IQA implusive
Induced polarization da	
Other da	εγε
Section 77 (19) See "Mining Claims Assessed" column	
Geological da	ays
Geochemical de	ays
Man days 🗌 🛛 Airborne 🛛	
Special provision	
Credits have been reduced because of particular coverage of claims.	rtial
X Credits have been reduced because of correcti to work dates and figures of applicant.	ions
Special credits under section 77 (16) for the follow	ing mining claims
No credits have been allowed for the following mini	ing claims
not sufficiently covered by the survey	Insufficient technical data filed
L	necessary in order that the total number of approved assessment days recorded on

The Mining Recorder may reduce the above credits if necessary in Order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77 (19)-60: 828 (83/6)



Technical Assessment Work Credits

	File
	2.7325
Date	Mining Recorder's Report of Work No. 105 04 0
1985 02 07	Work No. 195-84-8

Recorded Holder	SAULT MEADOWS ENERGY CORP
Township or Area	DOGPAW LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic da	vs
Magnetometer da	K 704675 to 683 inclusive
Radiometric da	ys
Induced polarization da	vs
Other da	ys
Section 77 (19) See "Mining Claims Assessed" column	
Geological da	ys
Geochemical da	vs
Man days 🗌 🛛 Airborne 💡	
Special provision 🗋 Ground 🗌	
Credits have been reduced because of particular coverage of claims.	tial
Credits have been reduced because of correcti to work dates and figures of applicant.	ons
Special credits under section 77 (16) for the following	ng mining claims
No credits have been allowed for the following mini	
not sufficiently covered by the survey	Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77 (19)-60: 828 (83/6)

Ministry of	Technical Assessm	ent	File	
Ontario Natural	Work Credits	AMENDED	Date 2.73 1985 02 21 Mining Recorder's Re Work No. 195-	port
			1985 02 21 195-	84-
Recorded Holder				
Township or Area	SAULT MEADOWS ENERGY	CORP		
	DOGPAW LAKE AREA			
	y and number of s credit per claim		Mining Claims Assessed	
Geophysical				
Electromagnetic	14 days			
Magnetometer	<u>14</u> days		K 639459-60-61 639580 to 583 inclusive	
Radiometric	days		704684 to 697 inclusive	
Induced polarization	days			
Other	days			
Section 77 (19) See "Min	ling Claims Assessed" column			
Geological	days			
Geochemical	days			
Man days 🔲	Airborne 🛛			
Special provision	Ground			
Credits have been coverage of claims.	reduced because of partial			
Credits have been re to work dates and fig	educed because of corrections gures of applicant.			
			·	
pecial credits under section	on 77 (16) for the following mi	ning claims		
o credits have been allow	ved for the following mining cla	ims		
not sufficiently covere		nsufficient technical data fi	iled	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60: 929 (83/6)



Technical Assessment Work Credits

Date 1985 02 07

File 2.7325

Mining Recorder's Report of Work No. 195-84-10

Recorded Holder SAULT MEADOWS E	NERGY COR	P		
Township or Area HERONRY LAKE				
Type of survey and number of Assessment days credit per claim		Mining Claims Assessed		
Geophysical 14 Electromagnetic 14		K 696107 to 115 inclusive		
Magnetometer		696117-18-25-26 696196 to 199 inclusive		
Induced polarization	days			
Section 77 (19) See "Mining Claims Assessed" colu Geological Geochemical	days			
Man days Airborne	K.			
Credits have been reduced because of coverage of claims.				
Credits have been reduced because of correct to work dates and figures of applicant.	octions			
Special credits under section 77 (16) for the follo	j owing mining (claims		
No credits have been allowed for the following mining claims				
not sufficiently covered by the survey				

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60: 828 (83/6)



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Technical Assessment Work Credits

Date 1985 02 07

2.7325 Mining Recorder's Report of Work No. 204/04 204/84

File

Recorded Holder	
Township or Area	
ROWAN LAKE AREA	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	
Magnetometer 35 days	K 718841-42-43 718848 to 853 inclusive
Radiometric days	718856 718858 -59-60
Induced polarization days	729337-38-39-40 719279-80-81
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 Airborne 😰	
Special provision	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following r	nining claims
No credits have been allowed for the following mining o	
not sufficiently covered by the survey	Insufficient technical data filed
	<u>.</u>

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77 (19)-60: 828 (83/6)



ources

Technical Assessment Work Credits

		 File 2.7325
Date		Mining Recorder's Report of Work No.
1985 02	07	 194/84

I.

Recorded Holder			
RAYLLOYD RESOURCES			
ROWAN LAKE AREA			
Type of survey and number of			
Assessment days credit per claim	Mining Claims Assessed		
Geophysical			
Electromagnetic 15 days			
Magnetometer]5 days	K 729161 to 180 inclusive 729182-83		
Radiometric days			
Induced polarization days			
Other days			
Section 77 (19) See "Mining Claims Assessed" column			
Geological days			
Geochemical days			
Man days 🗌 🛛 Airborne 🛛			
Special provision 🗌 Ground 🗋			
Credits have been reduced because of partial coverage of claims.			
Credits have been reduced because of corrections to work dates and figures of applicant.			
Special credits under section 77 (16) for the following n	nining claims		
No credits have been allowed for the following mining c			
not sufficiently covered by the survey	Insufficient technical data filed		
L The Mining Recorder may reduce the above credits if nec	essary in order that the total number of approved assessment days recorded on		

each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77 (19)-60: 828 (83/6)



ources

Technical Assessment Work Credits

ļ	Date	<u>.</u>		
		1985	02	07

2.7325 Mining Recorder's Report of Work No. 197/84

File

Recorded Holder STREAMSIDE RESOURCES	
Township or Area DOGPAW LAKE AREA	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 16 days	
Magnetometer 16 days	K 668923 to 926 inclusive 668928-29
Radiometric days	700636 to 659 inclusive
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 🛛 Airborne 🔀	
Special provision 🗌 Ground 🗆	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following m	ning claims
No credits have been allowed for the following mining cl	aims
not sufficiently covered by the survey	Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77 (19)-60: 828 (83/6)



	2.7325	
Date	Mining Recorder's Report o Work No. 96/84	
1985 02 07	190/84	

File

Recorded Holder GREAT CAM	ERON LAKE	
Fownship or Area DOGPAW LA	KE AREA	
Type of survey and number o Assessment days credit per cla		Mining Claims Assessed
Geophysical Electromagnetic		
Magnetometer		K 440332 to 338 inclusive 440350 to 364 inclusive 704502-03-04
Induced polarization		704707 to 716 inclusive
Other Section 77 (19) See "Mining Claims Asse:		
Geological	daγs	
Geochemical		
Man days 🗌 Special provision 🔲	Airborne 💭 Ground 🗋	
Credits have been reduced beca coverage of claims.	ause of partial	
Credits have been reduced becaus to work dates and figures of application		
pecial credits under section 77 (16) for	the following mini	ing claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey

Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60:



purces

Technical Assessment Work Credits

Date			
1985	02	07	

2.7325 Mining Recorder's Report of Work No. 205 205/84

File

Recorded Holder	GRANT	
Township or Area ROWAN_LA		
Type of survey and number of Assessment days credit per cit		Mining Claims Assessed
Geophysical		
Electromagnetic	15 days	
Magnetometer	<u>15</u> daγs	K 718844 to 847 inclusive 718854-55-57
Radiometric	days	718894 729331 to 336 inclusive
Induced polarization	days	729155 to 160 inclusive
Other	days	
Section 77 (19) See "Mining Claims Asse	essed" column	I all contract desel
Geological	days	copies of all correspondence
Geochemical	days	to co to
Man days 🗌	Airborne 🙀	Im Eslingers.
Special provision	Ground	Thead Leveral mener
Credits have been reduced bec coverage of claims.	ause of partial	Don Eslinger Great Kentral Mines 604 - 890 West Pender Vanc. V6C 139
Credits have been reduced because to work dates and figures of applic		Vanc. VGC 13
Special credits under section 77 (16) fo	r the following mining cla	aims
No credits have been allowed for the fo		
not sufficiently covered by the survey		ent technical data filed
The Mining December may reduce the she	ve eredite if needenant in	order that the total number of approved assessment days recorded on

each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60: 929 (83/5)

V otario

Ministry of Natural Resources

AMENDED

1985 02 21

Your File: 195-84-9,195-84-1 Our File: 2,7325

Marco11/85

Mining Recorder Ministry of Natural Resources 808 Robertson Street Box 5080 Kenora, Ontario P9N 3X9

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. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt

Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

S. Hurst:mc

Encls.

- cc: Sault Meadows Energy Corp Toronto, Ontario
- cc: Jack Cureatz Wawa, Ontario
- cc: David Alexander Grant Chilliwack, B.C.
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

- cc: Raylloyd Resources Ltd Toronto, Ontario
- cc: Streamside Resources Toronto, Ontario
- cc: Gus Kowalski
- Sault Ste. Marie, Ontario cc: S. Evanylo
- Toronto, Ontario cc: Great Cameron Lake Toronto, Ontario

AMENDED



Ministry of Natural Resources Notice of Intent for Technical Reports 1985 02 21 2.7325/195-84-9,195-84-1

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 Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Your Files: 195-84-9, 195-84-1 Our File: 2.7325

Mining Recorder Ministry of Natural Resources 808 Robertson Street Box 5080 Kenora, Ontario P9N 3X9

Dear Sir:

1985 03 15

RE: Notice of Intent dated February 21, 1985 Geophysical (Electromagnetic & Magnetometer) Survey on Mining Claims K 440301, et. al., in the Heronry Lake, Rowan Lake, Dogpaw Lake and Brooks Lake Areas

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

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

Yours sincerely,

S.E. Yundt Director Land Nanagement Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(416)965-4888

S. Hurst:mc

CC :	Sault Meadows Energy	Corp
•	Toronto, Ontario	•
CC:	Jack Cureatz	
•	Wawa, Ontario	

- cc: David Alexander Grant Chilliwack, B.C.
- cc: Raylloyd Resources Ltd Toronto, Ontarlo
- cc: Streamside Resources Toronto, Ontario

Encl.

- cc: Gus Kowalski Sault Ste. Marie, Ontario
- cc: S. Evanylo Toronto, Ontario cc: Great Cameron Lake
- cc: Great Cameron Lake Toronto, Ontario cc: Mr. G.H. Ferguson
- cc: Mr. G.H. Ferguson Nining & Lands Commissioner Toronto, Ontario
- cc: Resident Geologist Kenora, Ontario





Ministry of Natural Resources

Feb 22/85

1985 02 07

Your File: 195-84-1 to 10 Incl. 194-84,196-84,197-84,204-84 205-84 Our File: 2.7325

Mining Recorder Ministry of Natural Resources 808 Robertson Street Box 5080 Kenora, Ontario P9N 3X9

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. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

S. Hurst:mc

Encls.

- cc: Sault Meadows Energy Corp Toronto, Ontario
- cc: Jack Cureatz Wawa, Ontario
- cc: David Alexander Grant Chilliwack, B.C.
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario
- cc: Raylloyd Resources Ltd Toronto, Ontario cc: Streamside Resources
- Toronto, Ontario
- cc: Gus Kowalski
 Sault Ste.Marie, Ontario
 cc: S. Evanylo
- Toronto, Ontario cc: Great Cameron Lake
 - Toronto, Ontario



Ministry of Natural Resources Notice of Intent for Technical Reports 1985 02 07 2.7325/195-84-1 to 10 inclusive 194-84 196-84 197-84 204-84 205-84

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.

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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 Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

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	ME, ADO CORPORA Ste. Marie Ontario		
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	A W VINDT		
	S. E. YUNDT	Ŧ	
	J. R. MORTON		
	J. R. MORTON J. C. BMITH		
	J. R. MORTON J. C. SMITH W. L. GOOD		

January 10, 1985

S.E. Yundt Ministry of Natural Resources Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

Dear Sir:

Re: File 2.7325

In response to your correspondence regarding our recent submission, we calculate the number of miles flown over the claims to be 88.01 miles.

Should you require any further information, please do not hesitate to call.

Yours truly,

SAULT MEADOWS ENERGY CORPORATION

S. Evanylo

S.A. Evanylo

381 clains. 88.01 × 40+381 88.01 × 40+381 88.01 × 40+381

RECEIVED

JAN 1 4 1985

MINING LANDS SECTION

November 16, 1984

File: 2.7325

Sault Meadows Energy Corporation Suite 1014 Box 69 20 Queen Street West Toronto, Ontario N5H 3R3

Dear Sirs:

RE: Airborne Geophysical (Magnetometer and Electromagnetic) Survey submitted on Mining Claims K 44031 et al in the Areas of Brooks Lake, Dogpaw Lake, Heronry Lake and Rowan Lake

With reference to the above-described submission, there appears to be a discrepancy in your calculations for assessment work credits. The report states that the total miles flown was 341 (549 Km) and the line spacing was 300 meters. Please provide the number of miles flown over the claims only. When submitting this information, please quote file 2.7325.

For further information, please contact Susan Hurst at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(416)965-4888

S. Hurst:mc

- cc: Mining Recorder Kenora, Ontario
- cc: Raylloyd Resources 109 Bayfield Street Barrie, Ontario LdM 3A9
- cc: Sault Meadows Energy Corp Suite 103, 46357 Yale Rd Chilliwak, B.C. V2P 2P8
- cc: Gus Kowalski 143 Headow Park Cr. Sault Ste. Marie, Ontario P6A 4H]
- cc: Greamside Resources Great Cameron Lake David Grant Suite 103 46397 Yale Rd Chiliwak, B.C. V2P 2P8

REGISTERED

December 31, 1984

File: 2,7325

Sault Meadows Energy Corp Suite 1014 Box 69 20 Queen Street West Toronto, Ontario N5H 3R3

Dear Sirs:

RE: Airborne Geophysical (Magnetometer & Electromagnetic) Survey submitted on Mining Claims K 440301 et al in the Areas of Beooks Lake, Dogpaw Lake, Heronry Lake and Rowan Lake

Enclosed is a copy of our letter dated Rovember 16, 1984 requesting additional information for the above-mentioned survey.

Unless you can provide the required data by January 11, 1985 the line miles will be estimated and assessment credits adjusted accordingly.

For further information, please contact Mr. Ray Pichetée at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(416)965-4888

- S. Hurst:mc
- cc: Nining Recorder Kenora, Ontario
- cc: Gus Kowalski Sault Ste. Marie, Ontario

cc: Sault Meadows Energy Corp Chilliwak, B.C. Encl.

- cc: Raylloyd Resources Barrie, Ontario
- cc: Gtreamside Resources Chilliwak, B.C.

Your File: 194 to 197, 204, 205 Our File: 2.7325

October 26, 1984

Mining Recorder Ministry of Natural Resources 808 Robertson Street Box 5160 Kenora, Ontario P9N 3X9

Dear Sir:

We received reports and maps on October 19, 1984 for an Airborne Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims K-440301 et al in the Areas of Brooks Lake, Dogpaw Lake, Heronry Lake and Rowan Lake.

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

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

D. Kinvig:1g

cc: Streamside Resources Great Cameron Lake David Grant Ste. 103, 46357 Yale Rd. CChilliwak, B.C. V2P 2P8. cc: RayLloyd Resources 109 Bayfield St. Barrie, Ontario L4M 3A9

> Sault Meadows Energy Corp. (same address as Streamside Resources Inc. 700 - 185 Bloor St. E. Toronto, Ontario N4W 3J3.

Gus Kowalski 7 143 Meadow Park Cr. Ti Sault Ste. Marie, Ontario P6A 4H1

THIS SURVEY COVERS THE CLAIMS OF. SAULT MEADOWS ENERGY CORP. 0 STREAMSIDE RESOURCES (\mathcal{S}) 3 GREAT CAMERON LAKE RESOURCES AUBUSTUS (GUS) KOWALSKI Q (5) DAULD ALEXANDER GRANT. BLOCKS HAVE BEEN ALL BLOCKED OUT AND LABELLED.

lank you

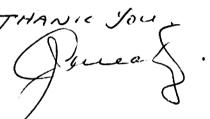
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DCT 1 9 1984 MINING LANDS SECTION



PLEASE FIND ENCLOSED TWO COMPLETE SETS OF AIR BORNE GEOPHYSICAL SURVEYS AS HAVING BEEN CARRIED OUT FOR SAULT MEADOWS ENERGY CORP & PARTNERS.

ALL BLOCKS HAVE BEEN INDICATED AND I HOPE YOU FIND EVERYTHING TO YOUR SATISFACTION.



J. CUREATZ V BOX 1088 WAWA, WNTARIO POS IKO

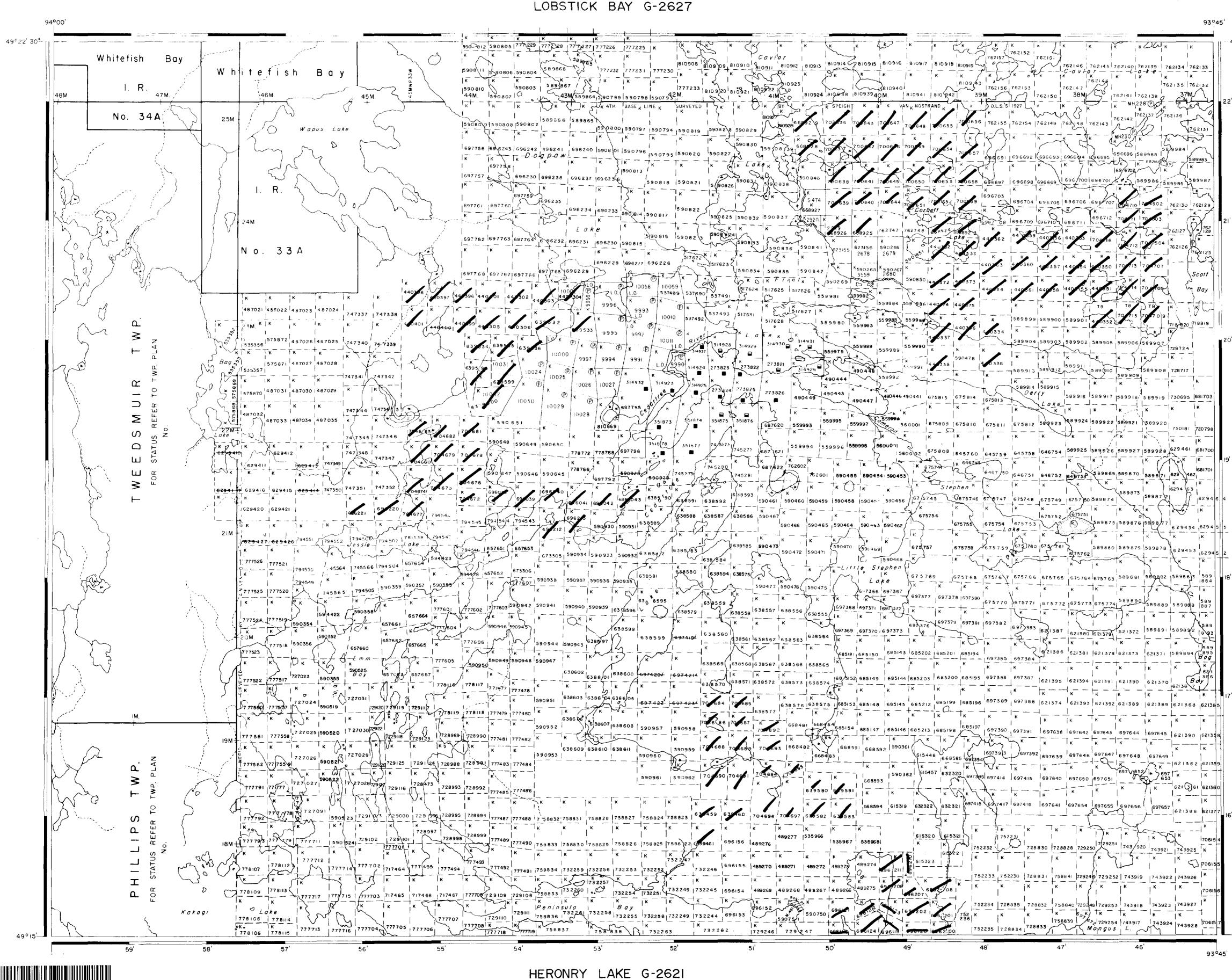
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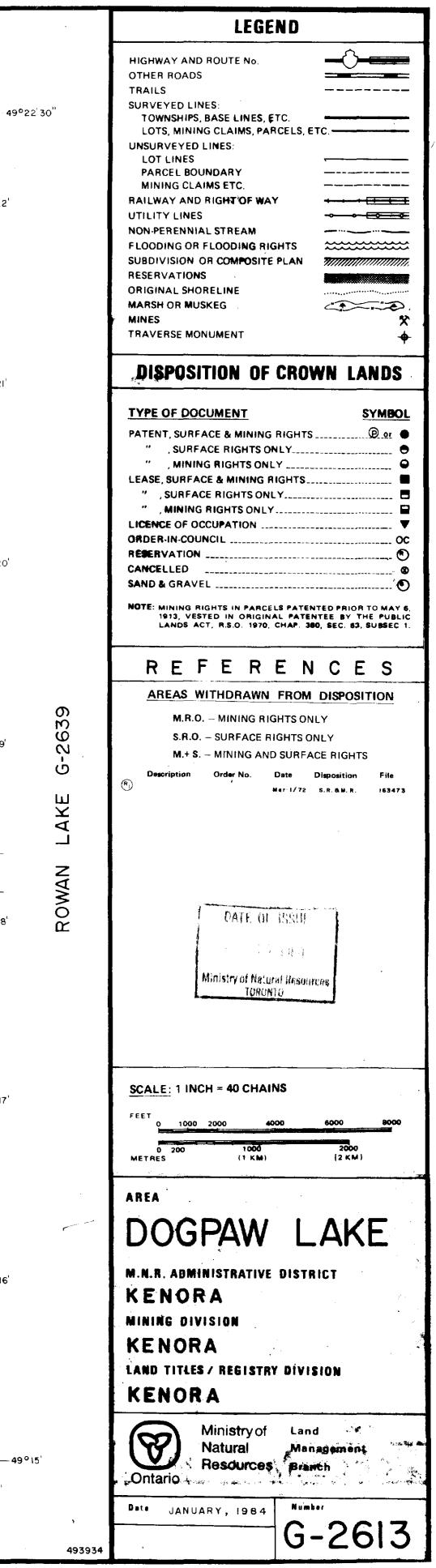
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OCT 1 9 1984 MINING LANDS SECTION

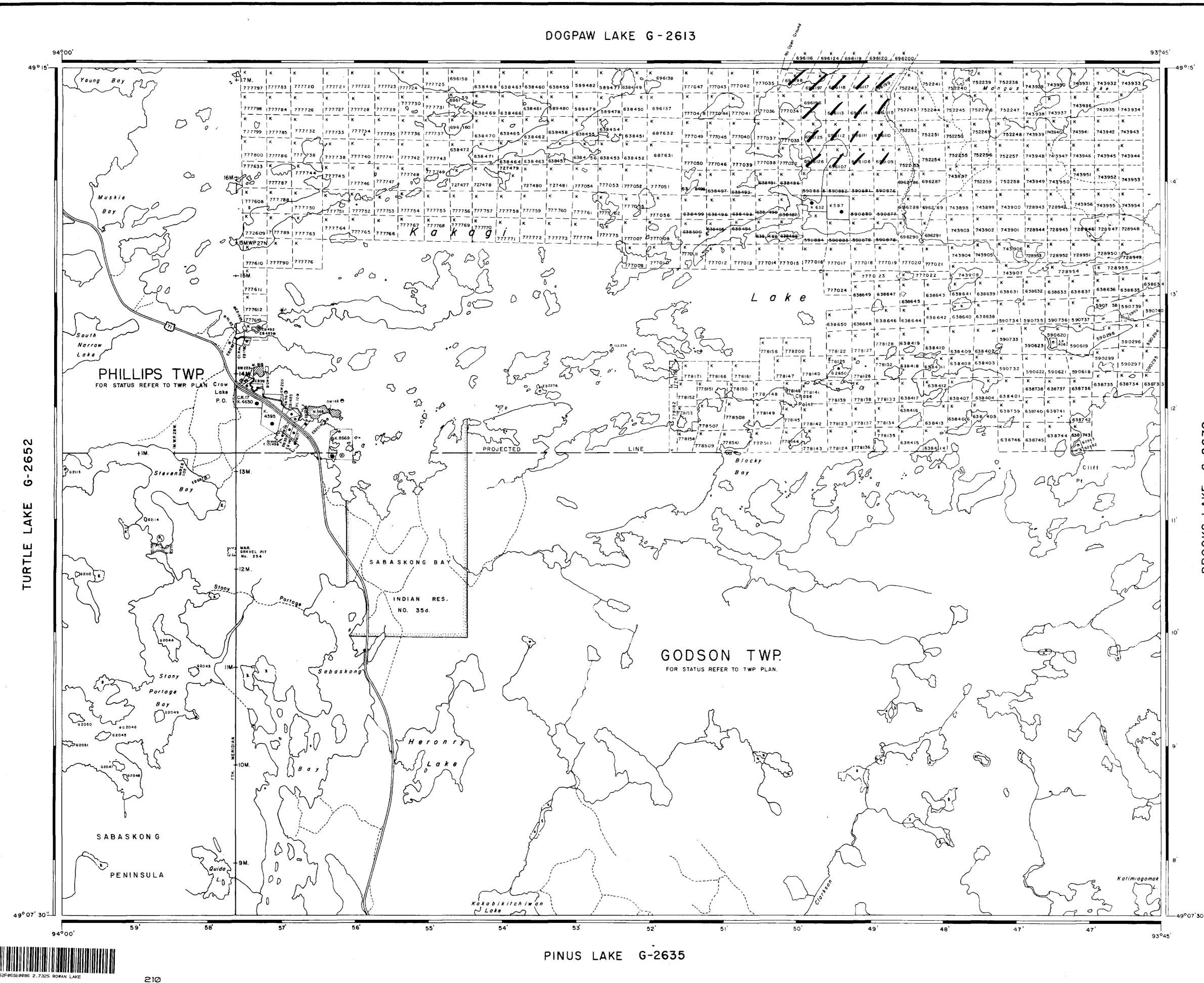
Streamside Resources Inc. 700 185 Bleor St. E. TORONTO, ONI .. MAW 3J3 OPEAT CAMERON LAKE RESOURCES Same as Streasside. David Grant Ste 103, 46357 Yale Rd., Chillingh, D.C. V2P 2PE Gus Kowatski Megdow Park G., 143 Sault Ste. Marie, ONARIO 16A 441 RALLOYD Resources 109 Bayfield Sty Barrie, Ont. 64M 3A9

Sault Meadows Energy Corp. same as Streasile.





M Q N Ġ AКП WAN



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. **BAILWAY AND RIGHT OF WAY** UTILITY LINES NON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS ججججججج SUBDIVISION OR COMPOSITE PLAN RESERVATIONS ORIGINAL SHORELINE MARSH OR MUSKEG MINES

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REFERENCES AREAS WITHDRAWN FROM DISPOSITION M.R.O. - MINING RIGHTS ONLY S.R.O. - SURFACE RIGHTS ONLY M.+ S. - MINING AND SURFACE RIGHTS ₩.65/76 18 8 5 2 19/11/7 5.8.0

> DATE OF ISSUE ODT 22 (991

Ministry of Natural Resources TORDNTO

SCALE: 1 INCH = 40 CHAINS

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LAND TITLES / REGISTRY DIVISION **KENORA** Ministry of Land Ø Natural

Management Resources Branch

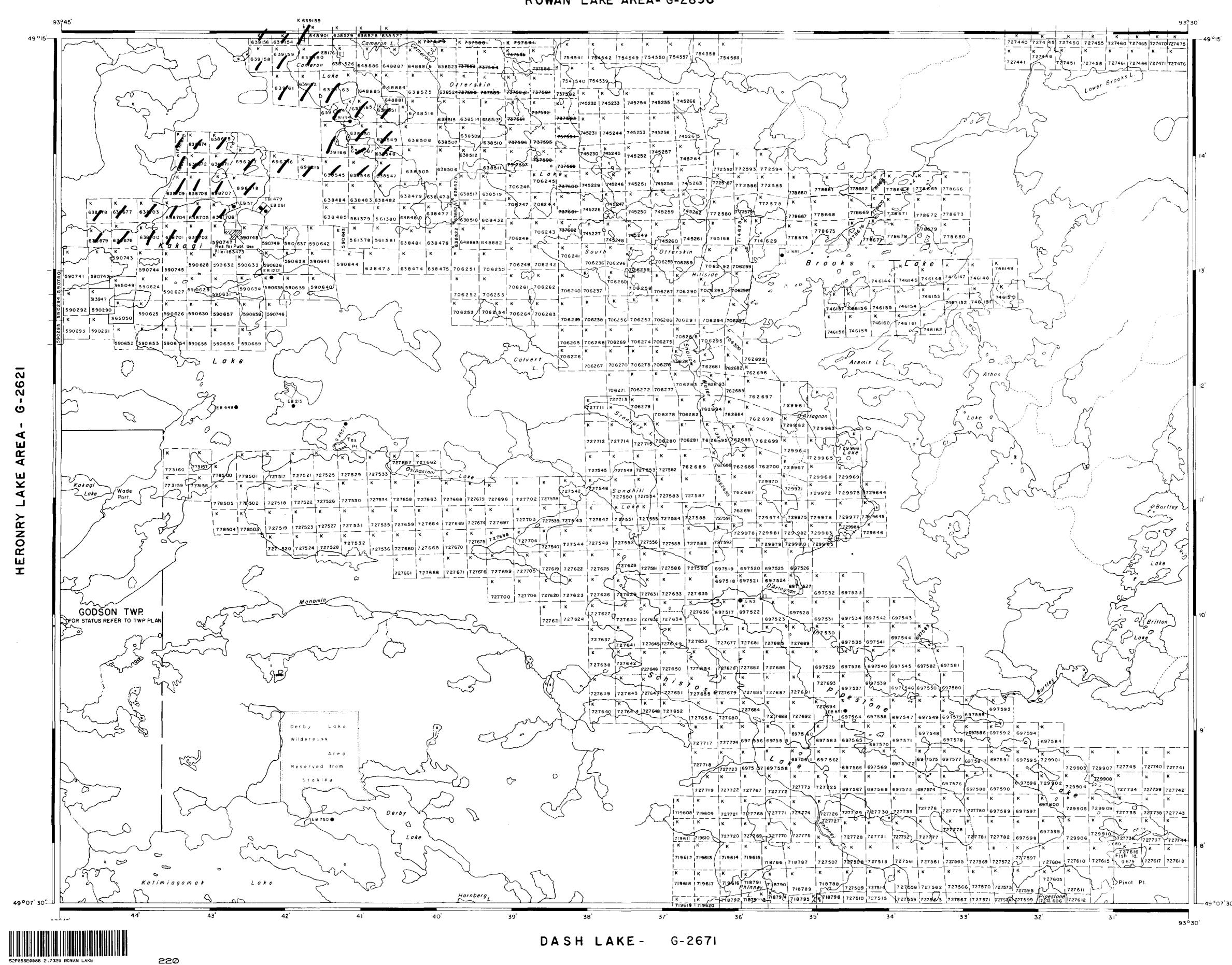
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Number

0 N G Т Ш ٩ BROOKS

Ontario

Date MARCH , 1984



ROWAN LAKE AREA- G-2696

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 DISPOSITION OF CROWN LANDS TYPE OF DOCUMENT SYMBO PATENT, SURFACE & MINING RIGHTS , SURFACE RIGHTS ONLY , MINING RIGHTS ONLY LEASE, SURFACE & MINING RIGHT SURFACE RIGHTS ON MINING RIGHTS ONL LICENCE OF OCCUPATIO ORDER-IN-COUNC 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 REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY S.R.O. - SURFACE RIGHTS ONLY M.+ S. - MINING AND SURFACE RIGHTS

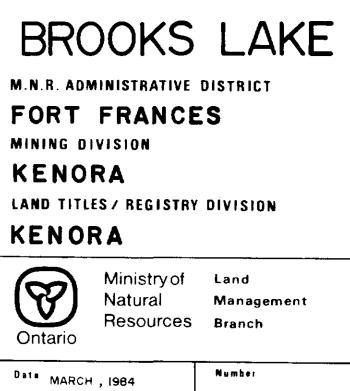
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Ministry of Natural Resources TORONTO

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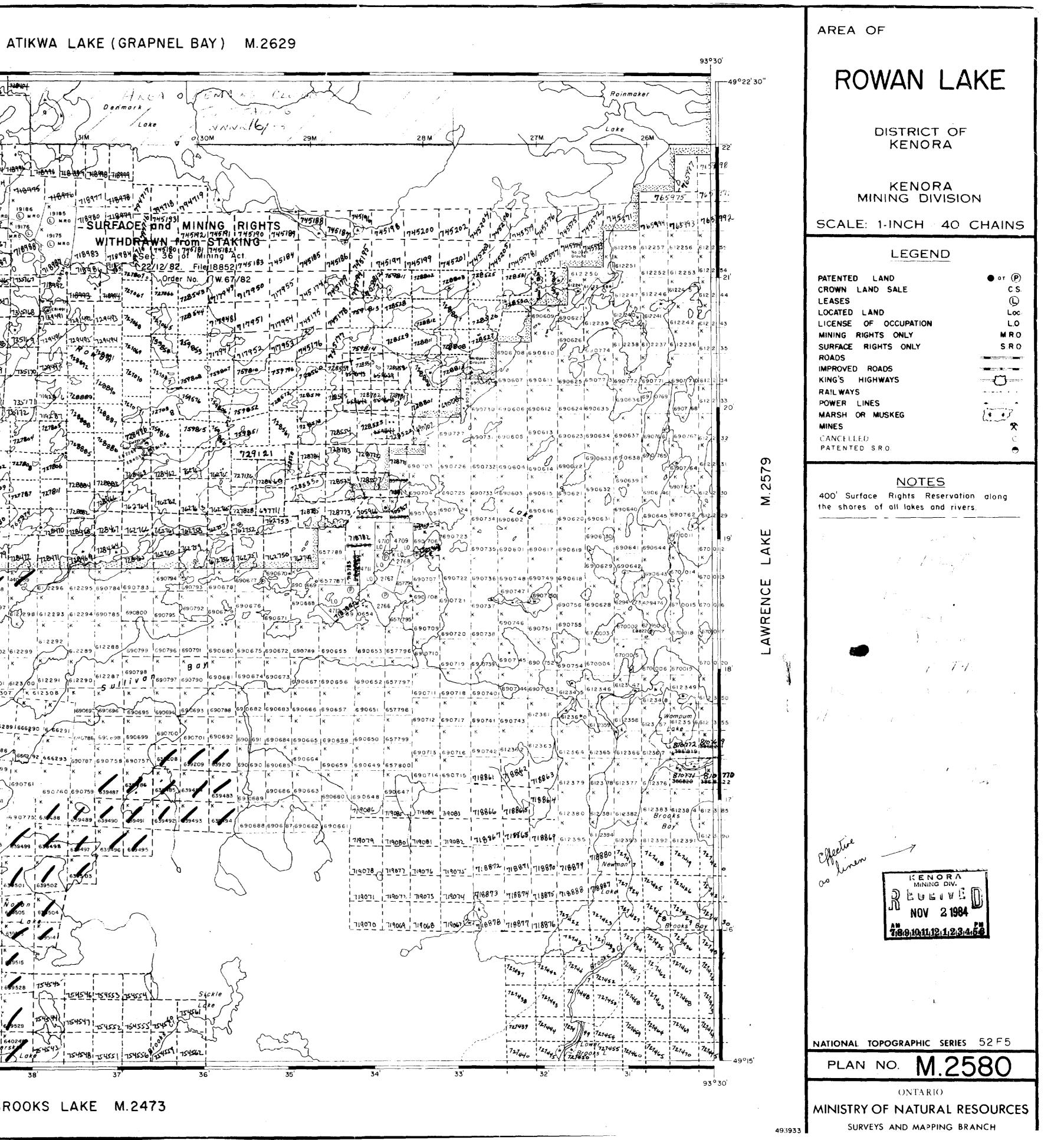
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	621366 K K K K 675806 675805	K K	67579 67579	K X 51996 519964	1386818	к 533904	K 533903	1533902 t	53390	K		63 527	к ж	555 527: 	52756 K		59077
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	621360 ¹ 621356 621354	675802 67579		" К 57 5788 	Г 7 675782 - 1 К	 675781 5е	757.78	('	CE63/5	ه: مح	1K 66630	I K	i k i	162078 1	2 690776 K 	1-2-1	630501 Ňojon
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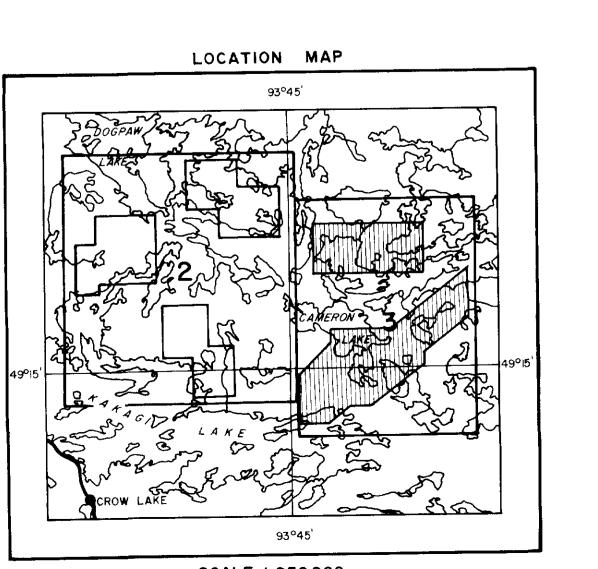


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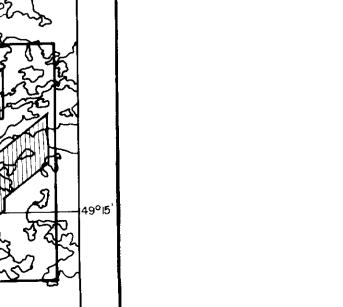


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SCALE 1-250,000



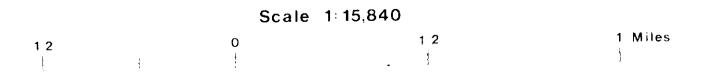
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DIGHEM^{III} SURVEY KAKAGI LAKE AREA, ONTARIO

ELECTROMAGNETIC ANOMALIES

FOR

SAULT MEADOWS ENERGY CORPORATION



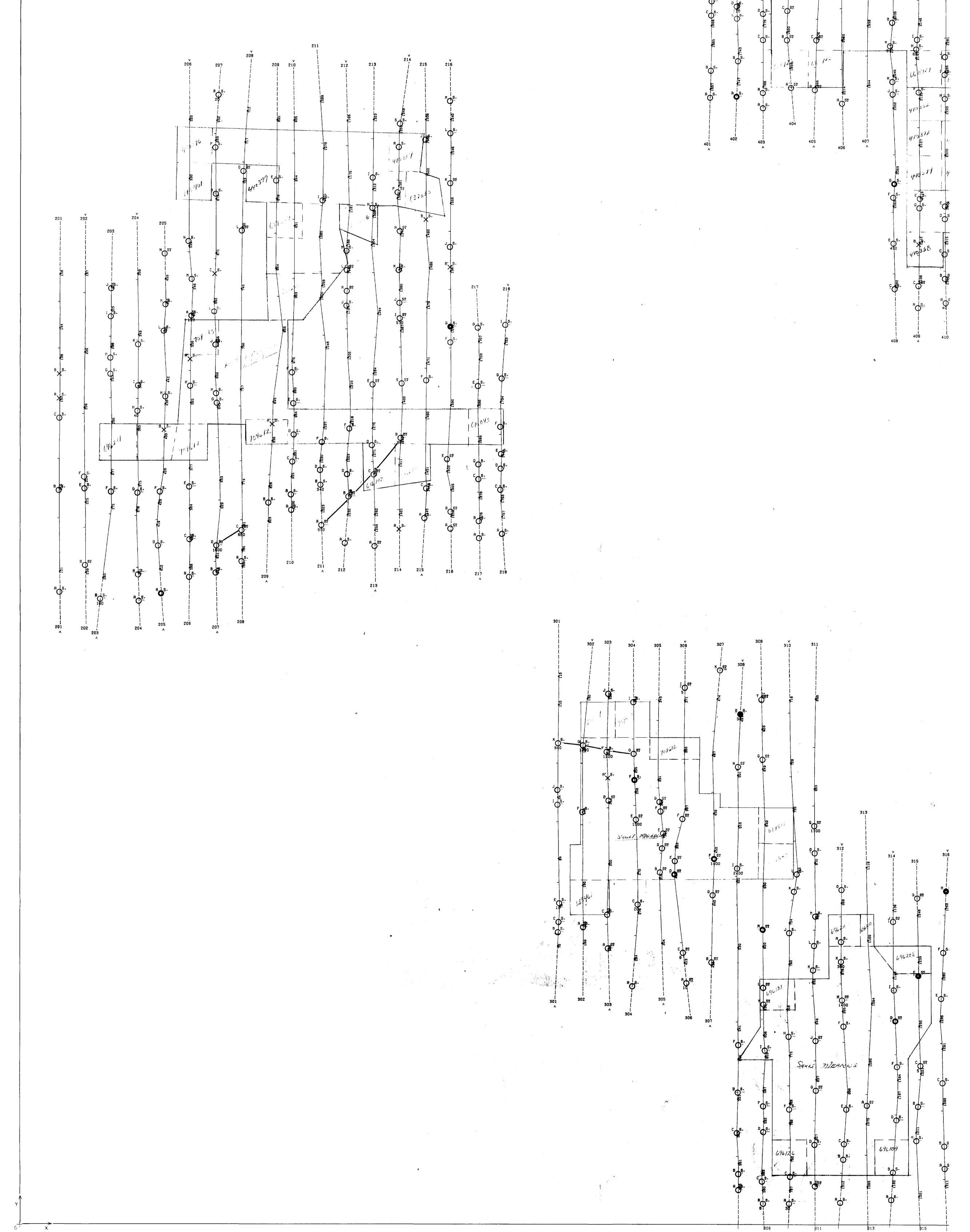
Flight Line +----- Fiducial 2120 (Not recovered from film) Fiducial 2118 (Recovered from film) - Fiducial 2110 (Not recovered from film) Fiducial 2104 (Recovered from film)

Line number and Flight direction

	RADE CONDUCTANCE BOL RANGE (MHOS) 99 5099 2049 1019 59 5 Indeterminate	conductivi	anomalies are divided into six grades of ty-thickness product. This product in measure of conductance.
anomaly + C "name" Depth is greater than + 15 m : 30 m : 45 m : 60 m	H interpretive symbol [Inphase and Quadrature of Coaxial Coil is greater than 5 ppm 	Interpretive symbol B. S. H. E.	Conductor ("model") Bedrock conductor Conductive cover ("horizontal thin sheet" Broad conductive rock unit, deep conductive weathering, thick conductive cover ("half space") Edge of broad conductor ("edge of half space") Culture, e.g. power line, building, fence
arcs indicate the conducto has a thick- ness > 10 n			dip direction magnetic correlation in nT (gammas) conductor axis flight line

ſ	JOB 202	DATE SEPT.	84	DRAWN BY	CHECKED BY
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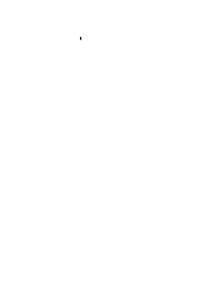


























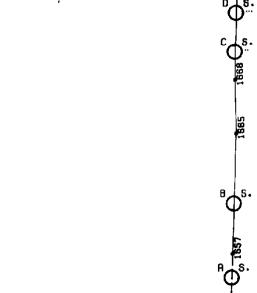


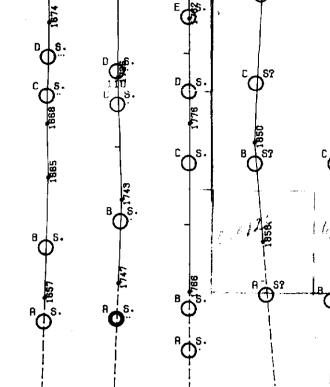


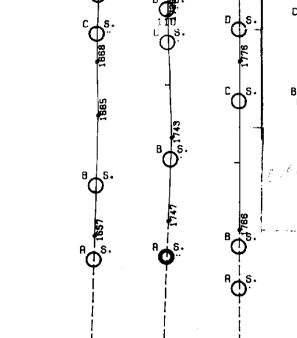












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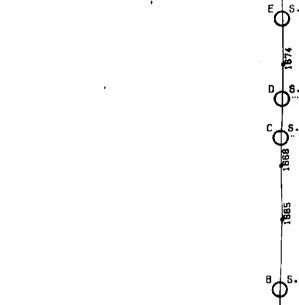
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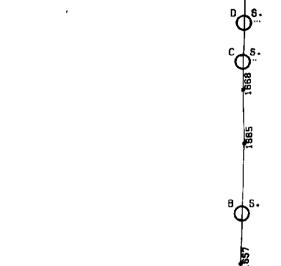
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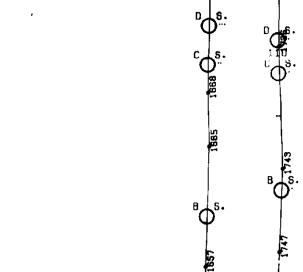
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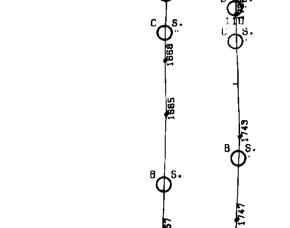
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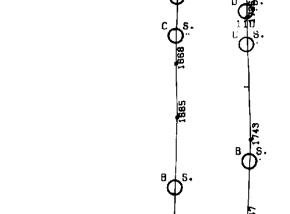
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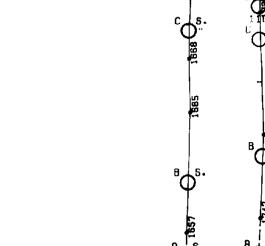


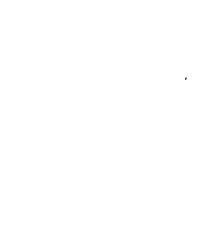


























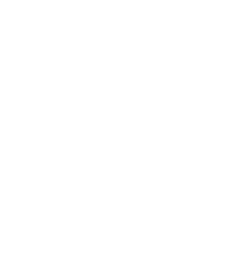




















































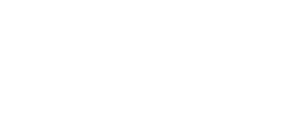








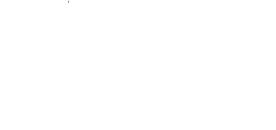


















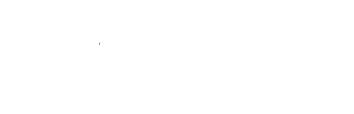




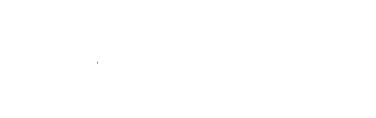


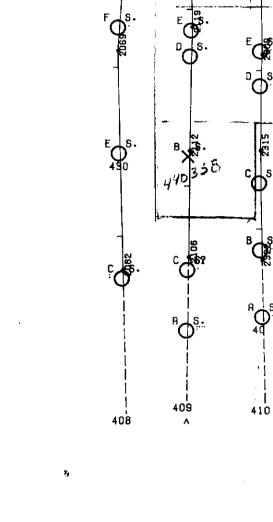












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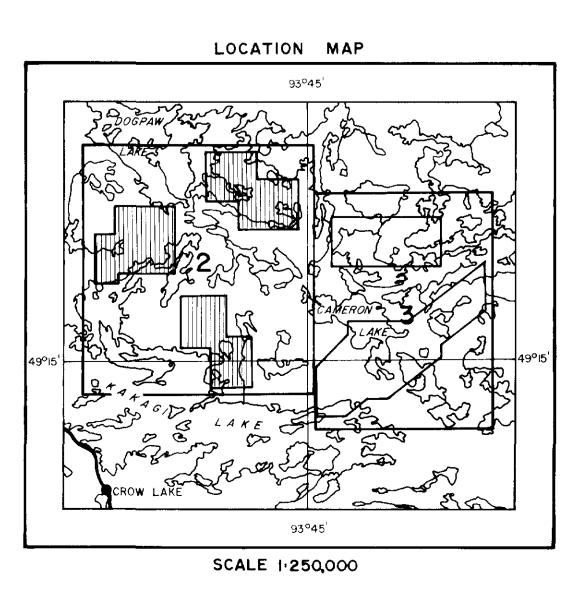
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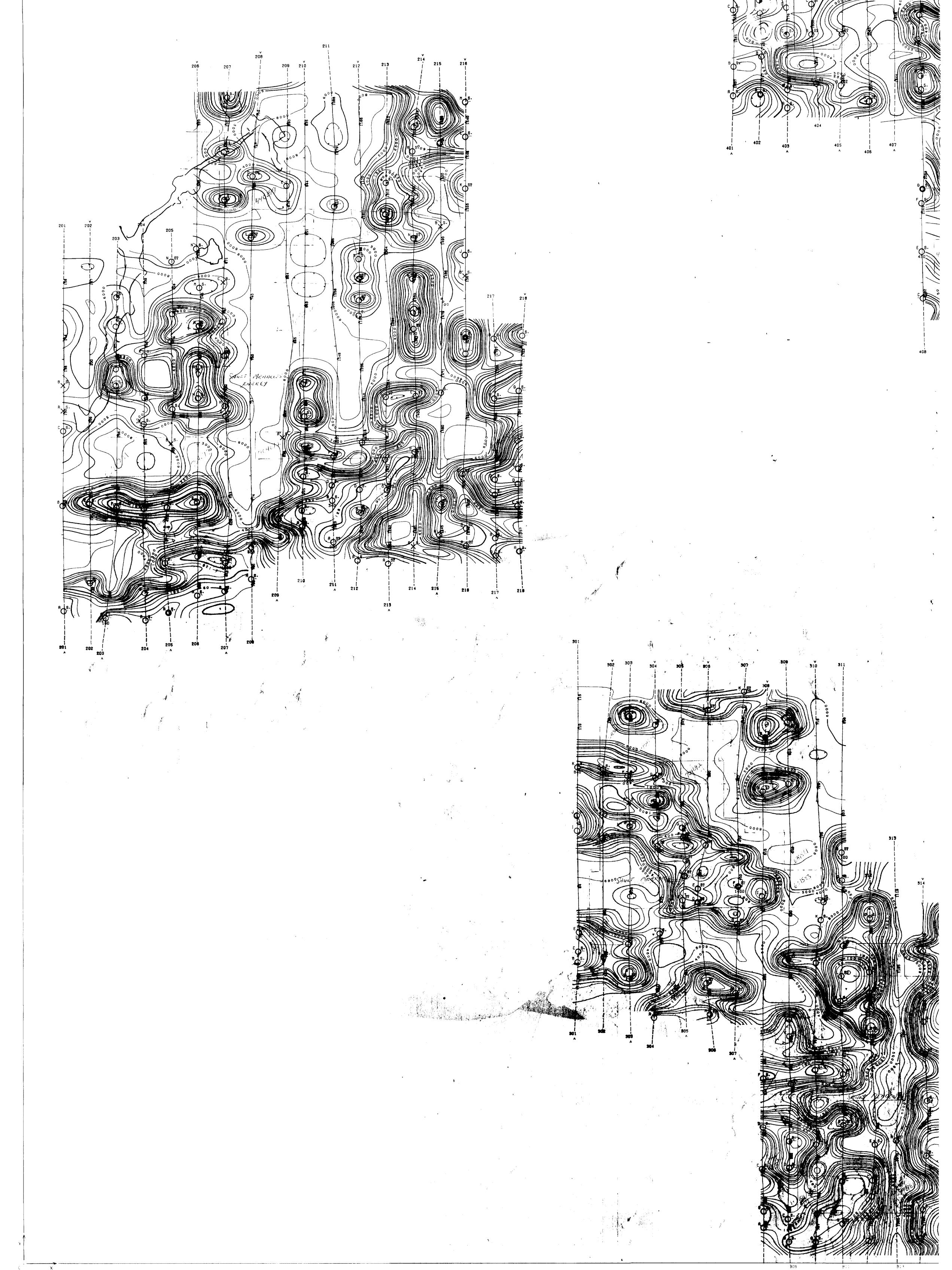
KAKAGI LAKE AREA, ONTARIO ELECTROMAGNETIC ANOMALIES FOR

SAULT MEADOWS ENERGY CORPORATION

Scale 1:15,840 1 2 0 1 2 1 1 Miles



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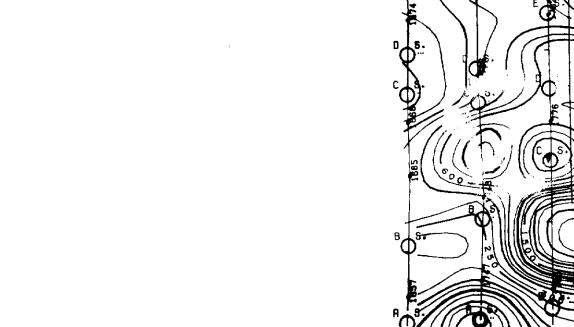


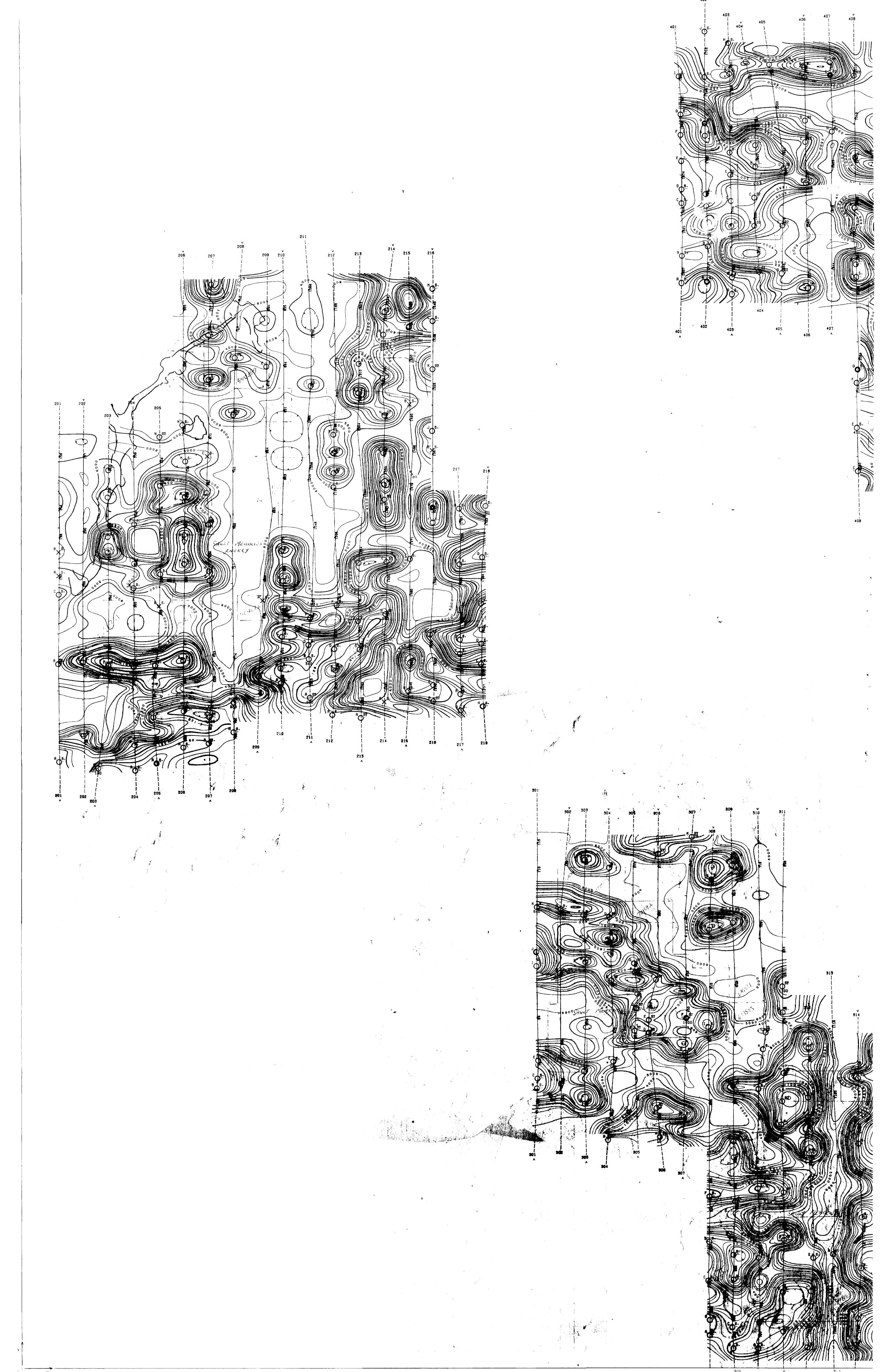




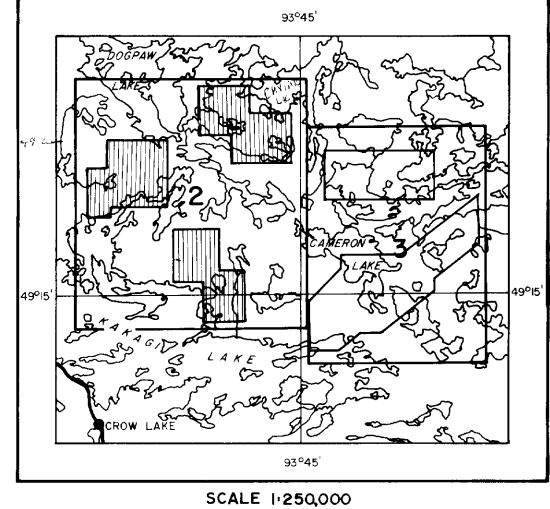








LOCATION MAP





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DIGHEM^{III} SURVEY

KAKAGI LAKE AREA, ONTARIO

RESISTIVITY

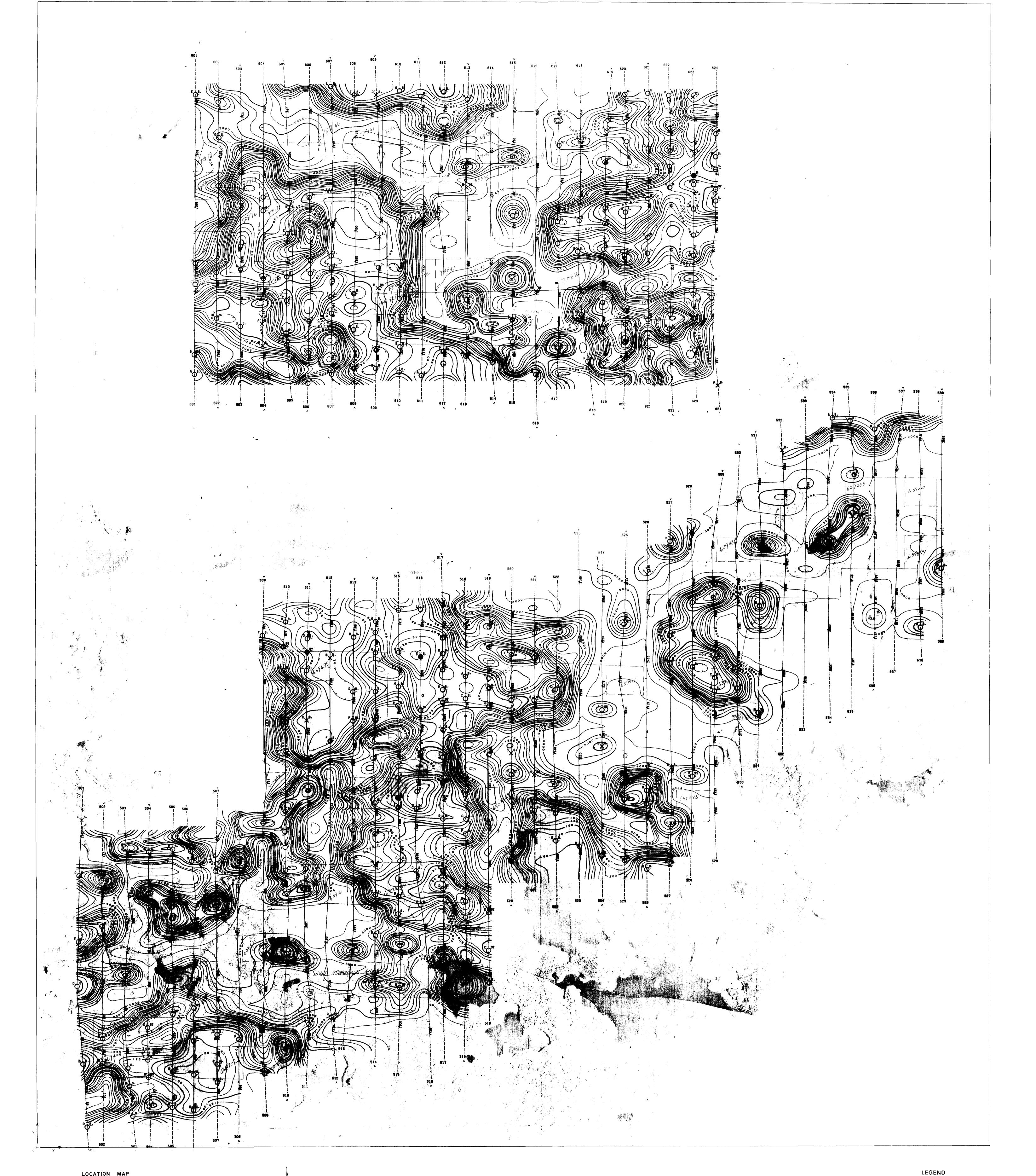
FOR

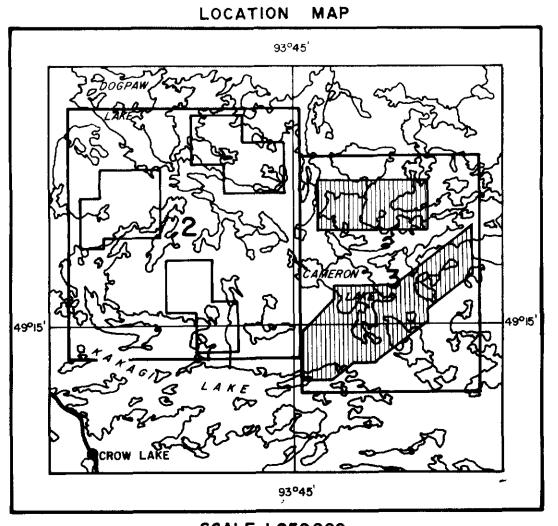
SAULT MEADOWS ENERGY CORPORATION

Scale 1:15,840 12 1 2 0 1 Miles

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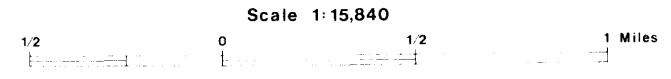


DIGHEMTH SURVEY KAKAGI LAKE AREA, ONTARIO RESISTIVITY FOR SAULT MEADOWS ENERGY CORPORATION

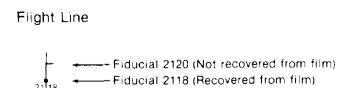
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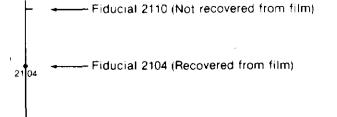
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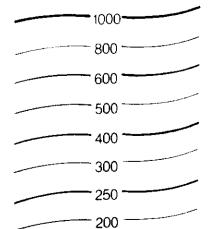




Line number and Flight direction

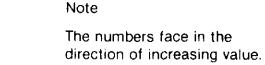
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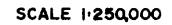
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Contours in ohm --- m

at ten intervals per decade

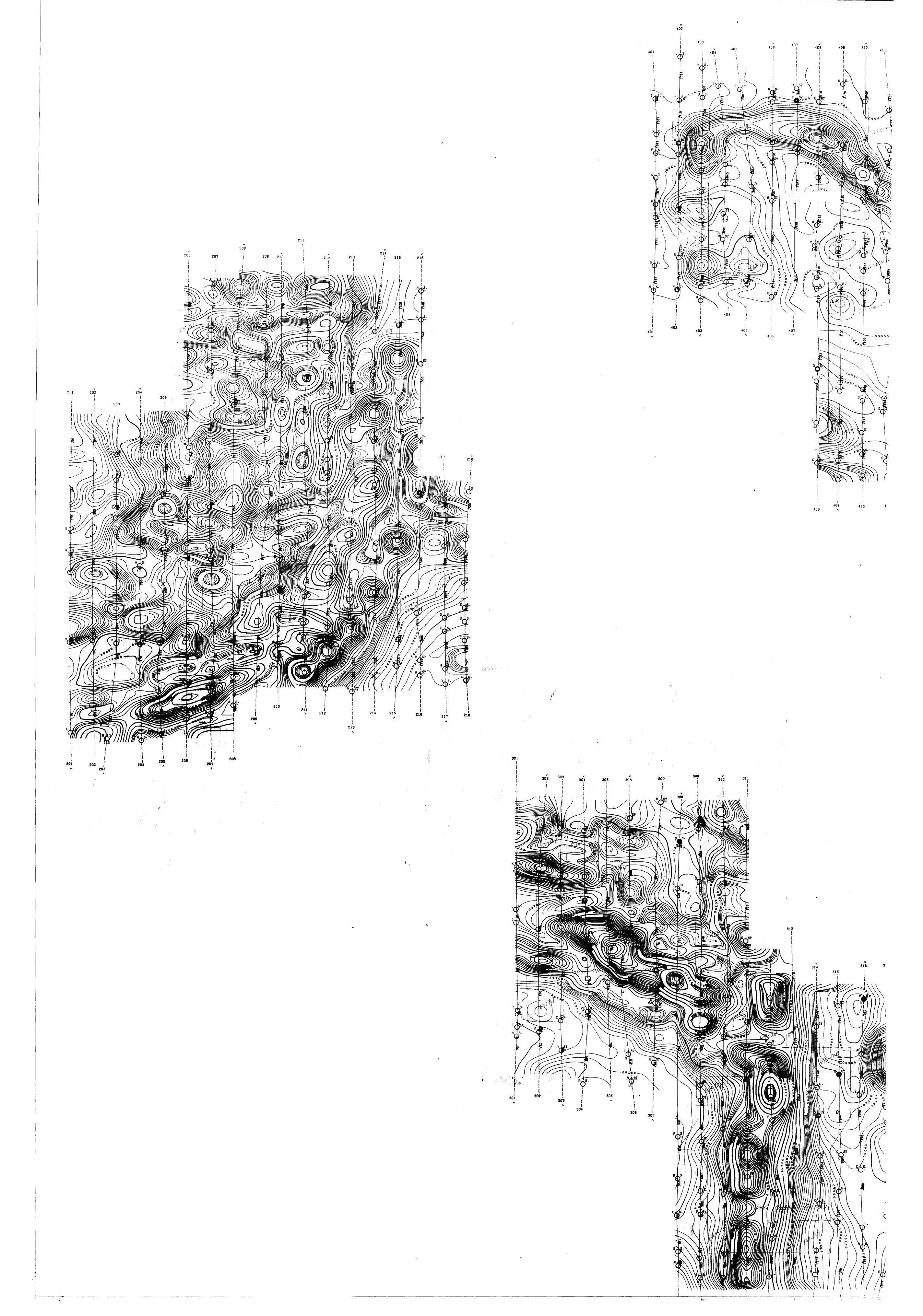


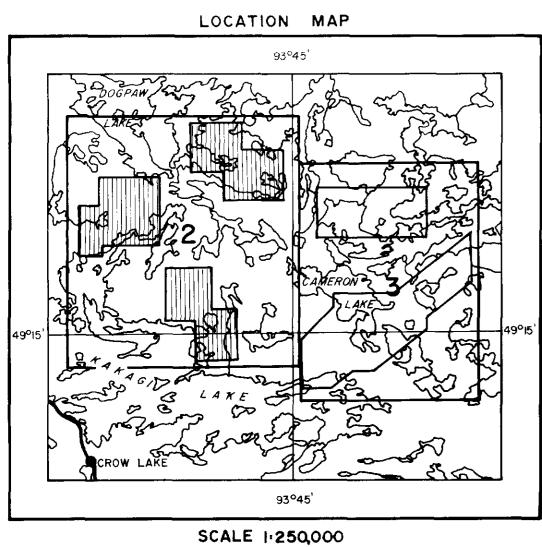














DIGHEM^{III} SURVEY

KAKAGI LAKE AREA, ONTARIO TOTAL FIELD MAGNETICS FOR

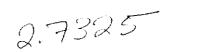
SAULT MEADOWS ENERGY CORPORATION

 Scale 1:15.840

 1 2
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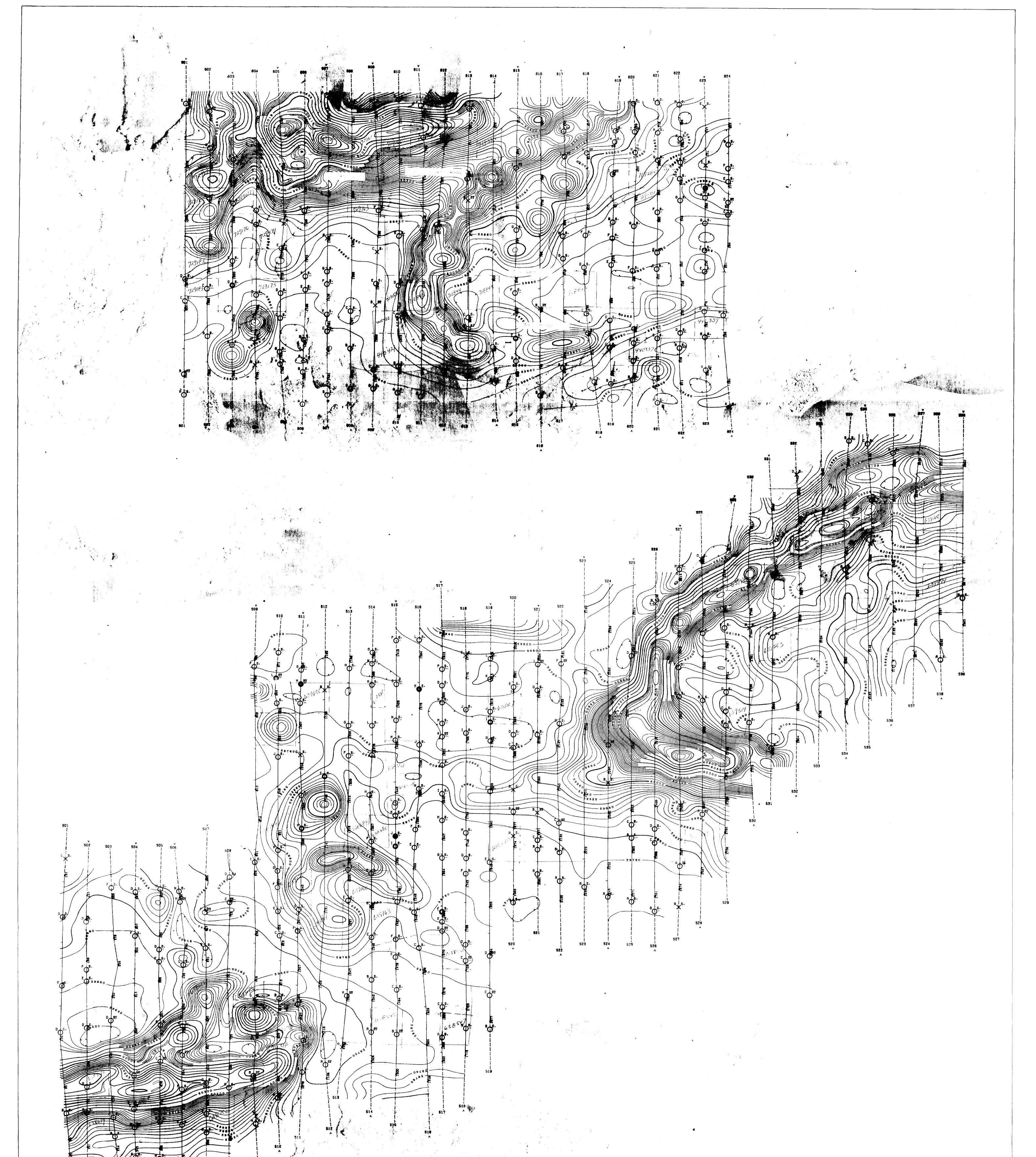
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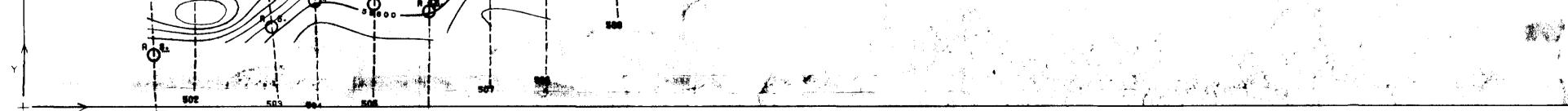
1 Miles

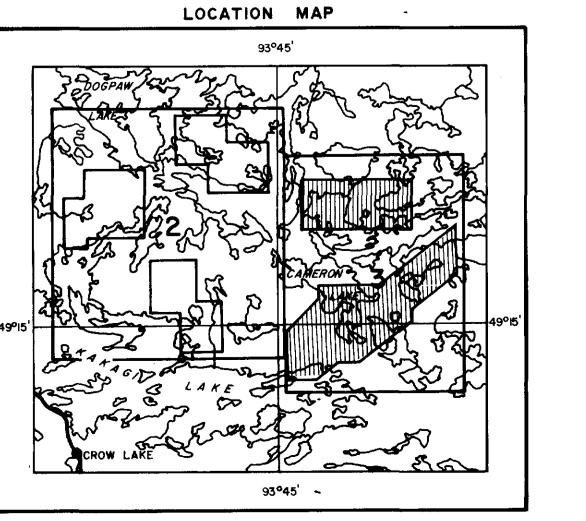


Flight









SCALE | 250,000

52F05SE0086 2.7325 ROWAN LAKE 290

DIGHEM^{III} SURVEY

KAKAGI LAKE AREA, ONTARIO

TOTAL FIELD MAGNETICS

FOR

SAULT MEADOWS ENERGY CORPORATION



Flight Line Fiducial 2118 (Recovered from film) ------ Fiducial 2110 (Not recovered from film)

500 nT 100 nT 20 nT 10 nT nagnetic depression

ISOMAGNETIC LINES

(total field)

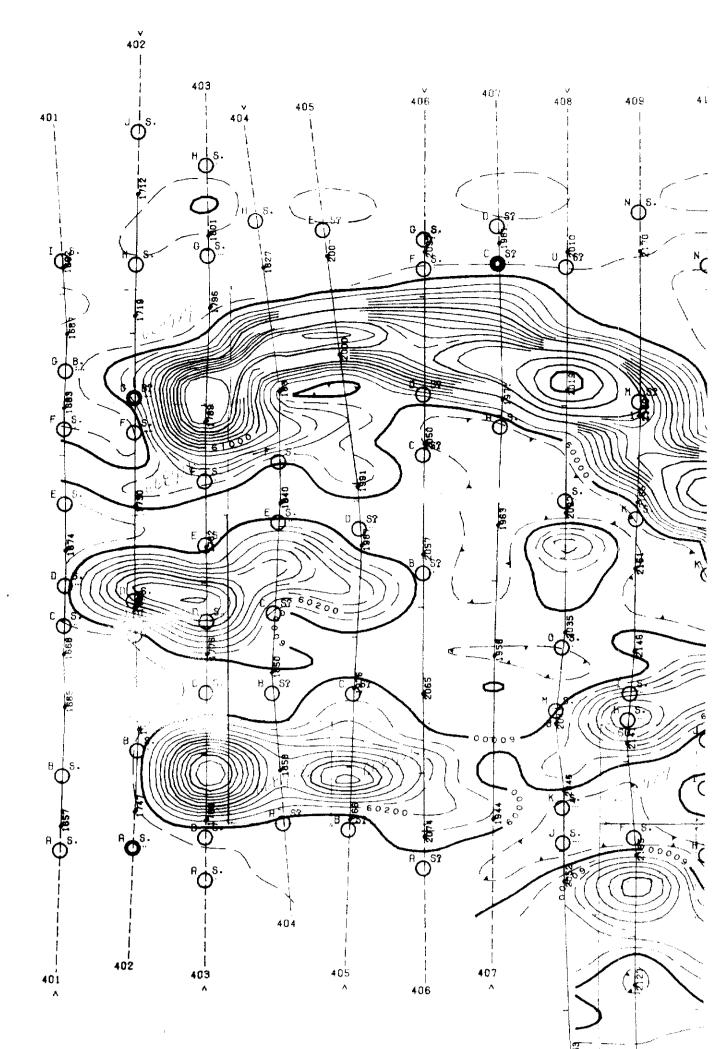
Line number and Flight direction

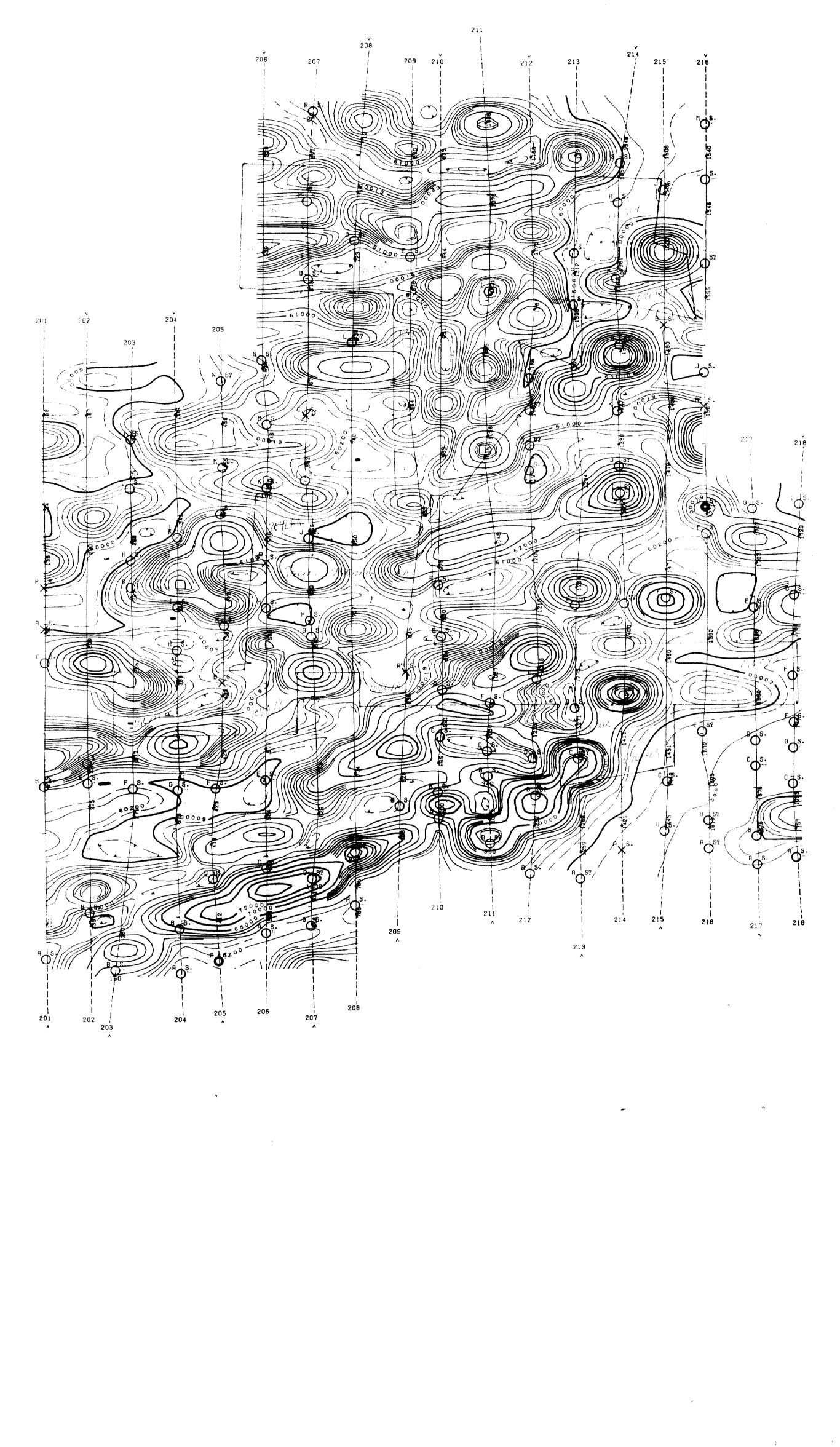
Fiducial 2104 (Recovered from film)

Magnetic Inclination within the survey area:78°









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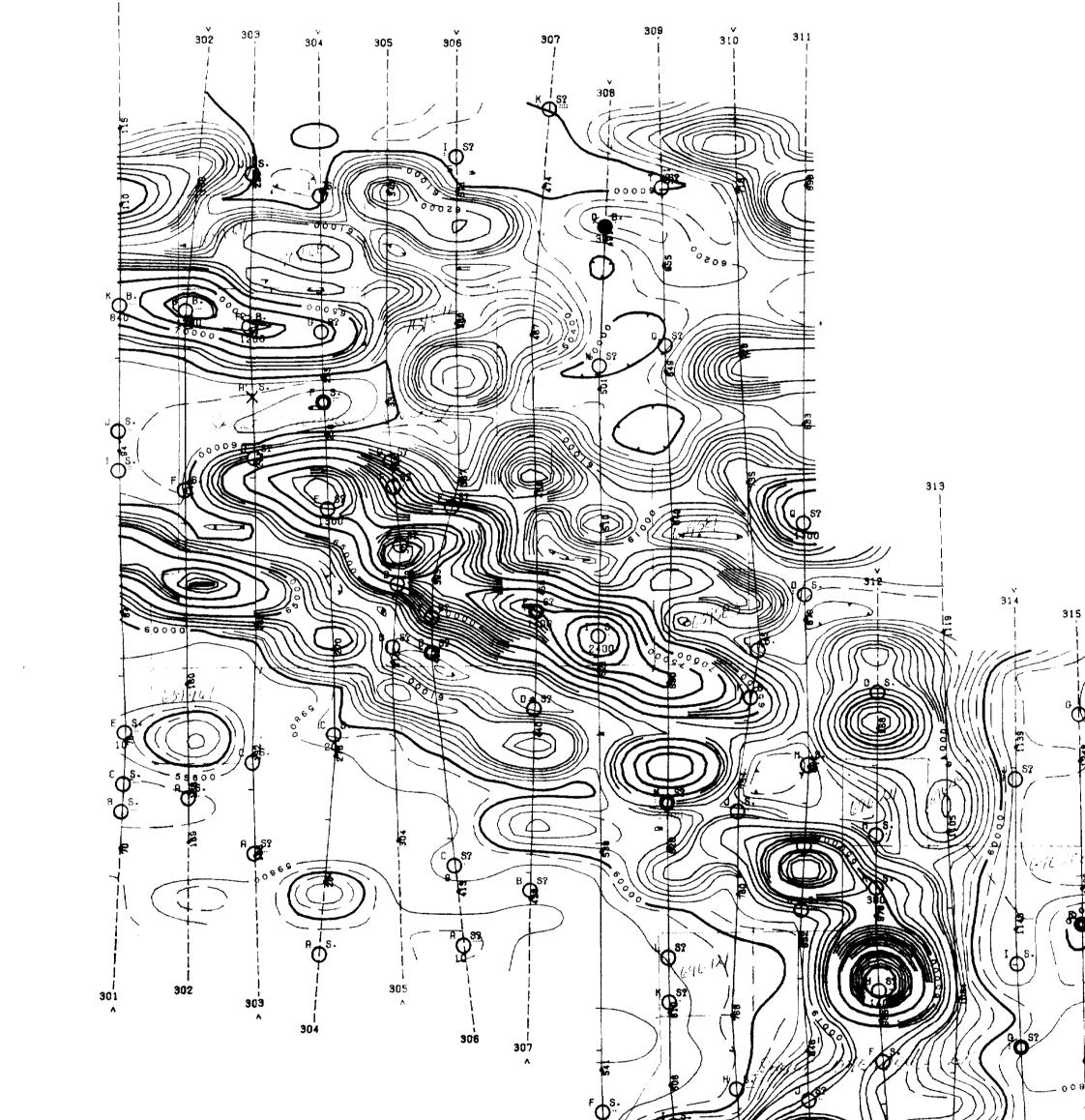
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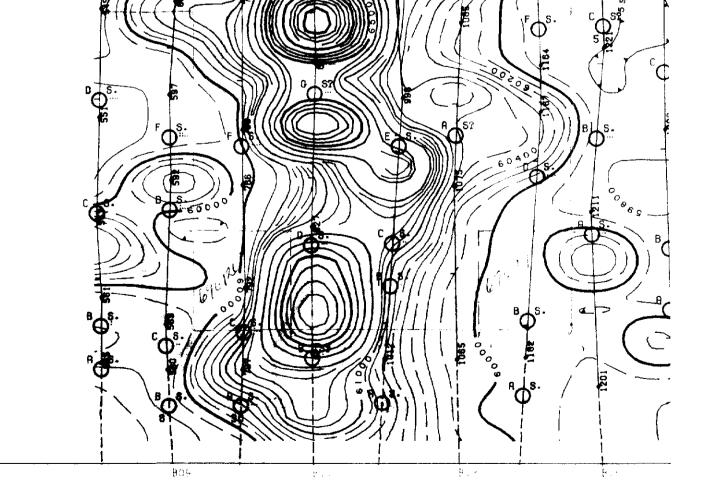
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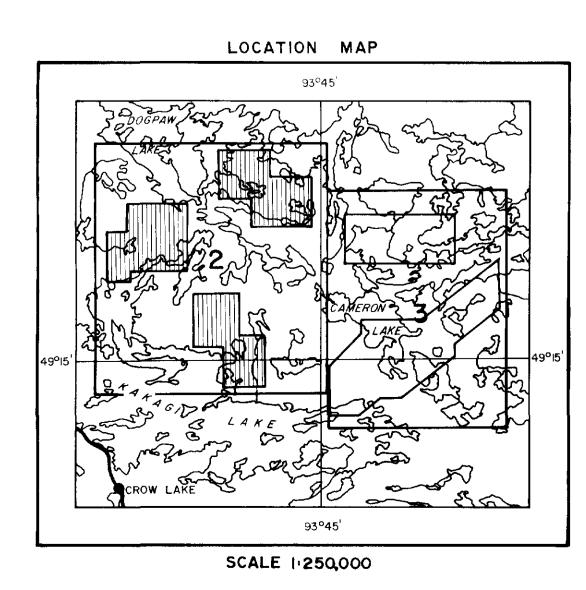
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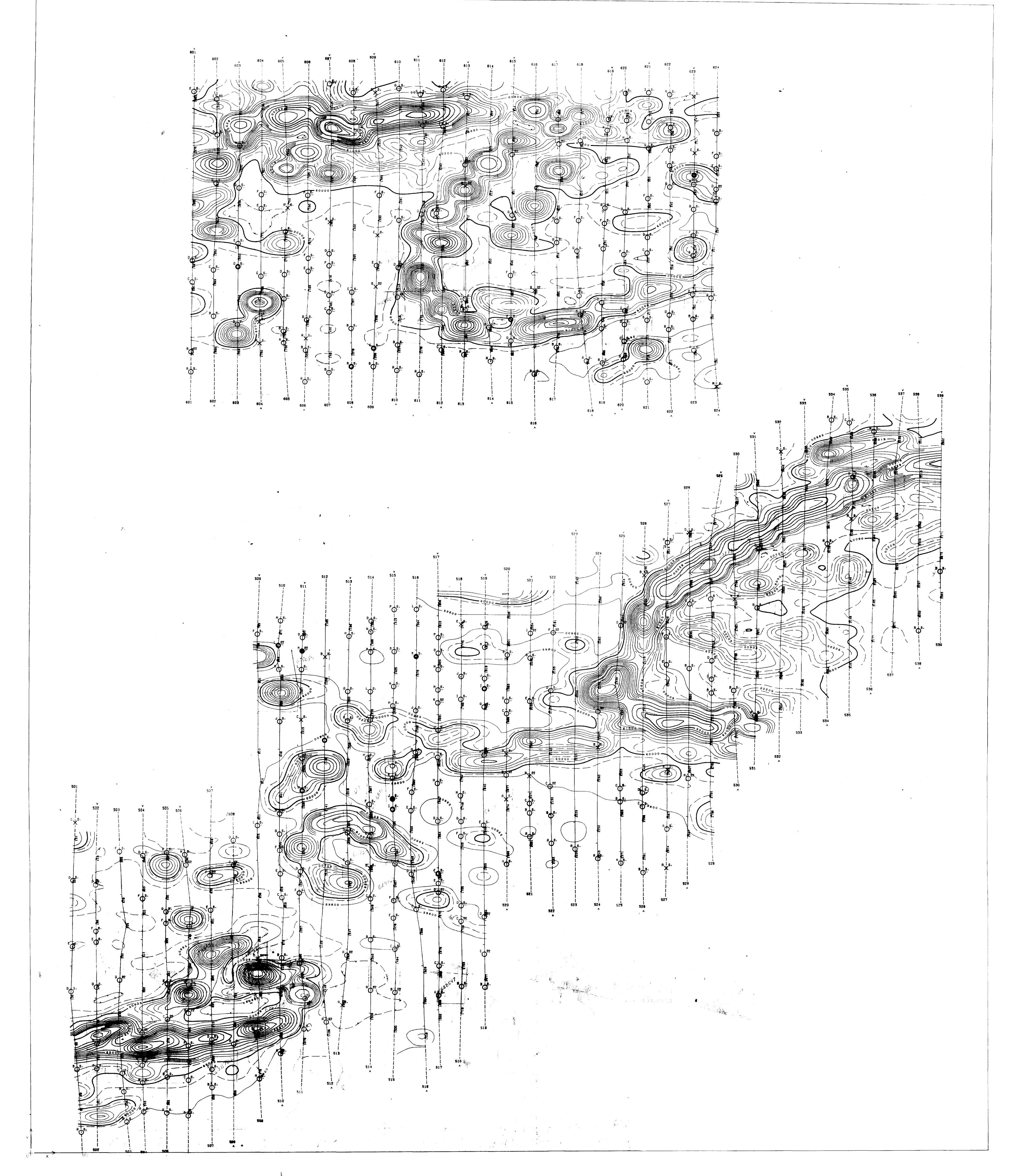
KAKAGI LAKE AREA, ONTARIO ENHANCED MAGNETICS FOR

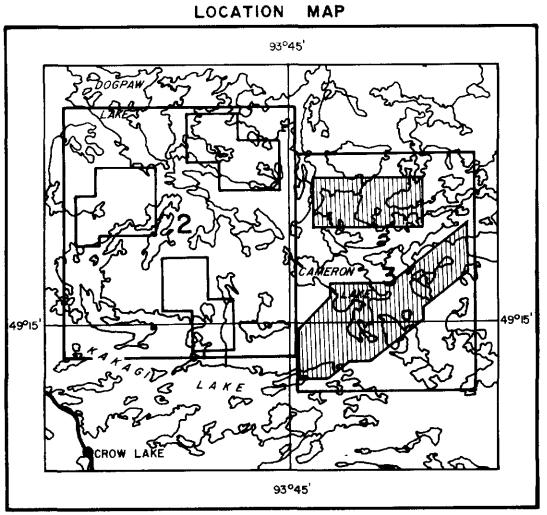
SAULT MEADOWS ENERGY CORPORATION

Scale 1:15,840 12 **O** ! 1 2 | 1 Miles



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SCALE 1-250,000





SAULT MEADOWS ENERGY CORPORATION

FOR

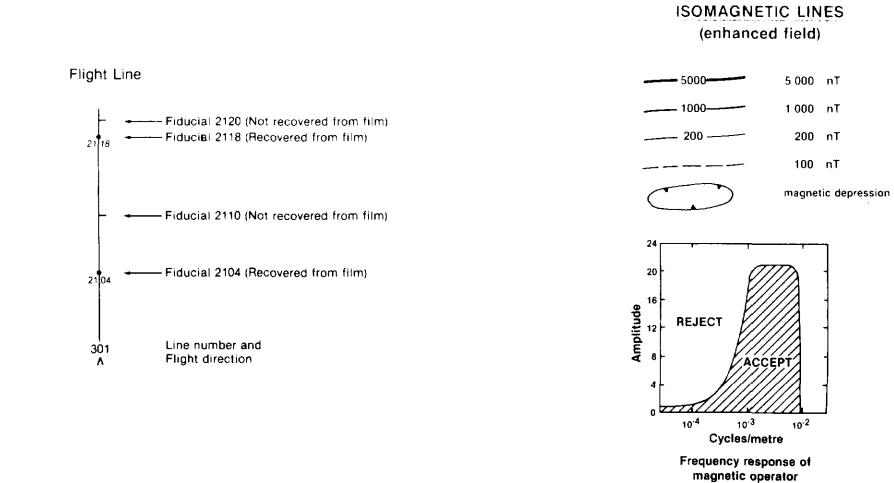
DIGHEM^{III} SURVEY

KAKAGI LAKE AREA, ONTARIO

ENHANCED MAGNETICS

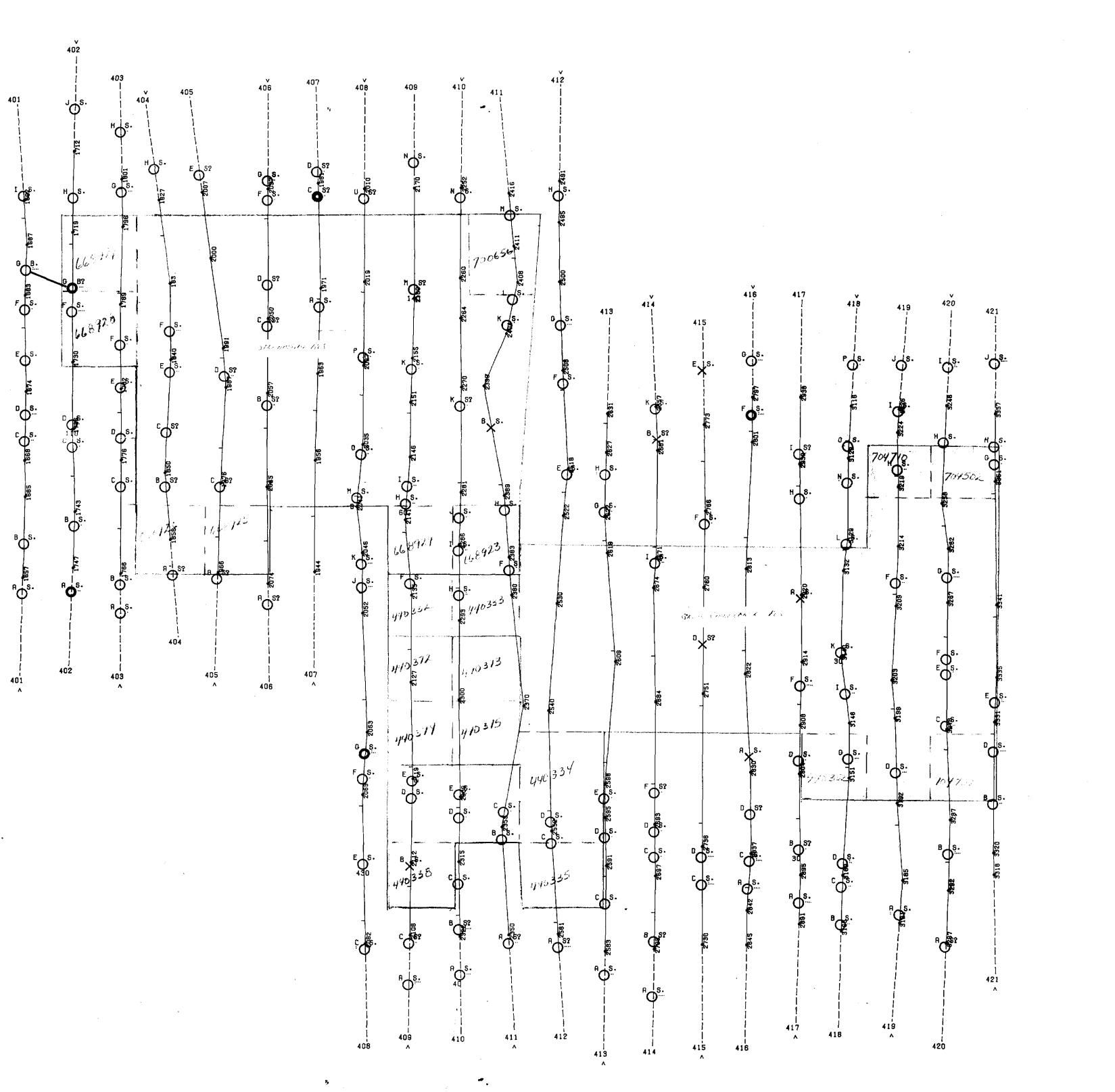
 Scale 1: 15,840

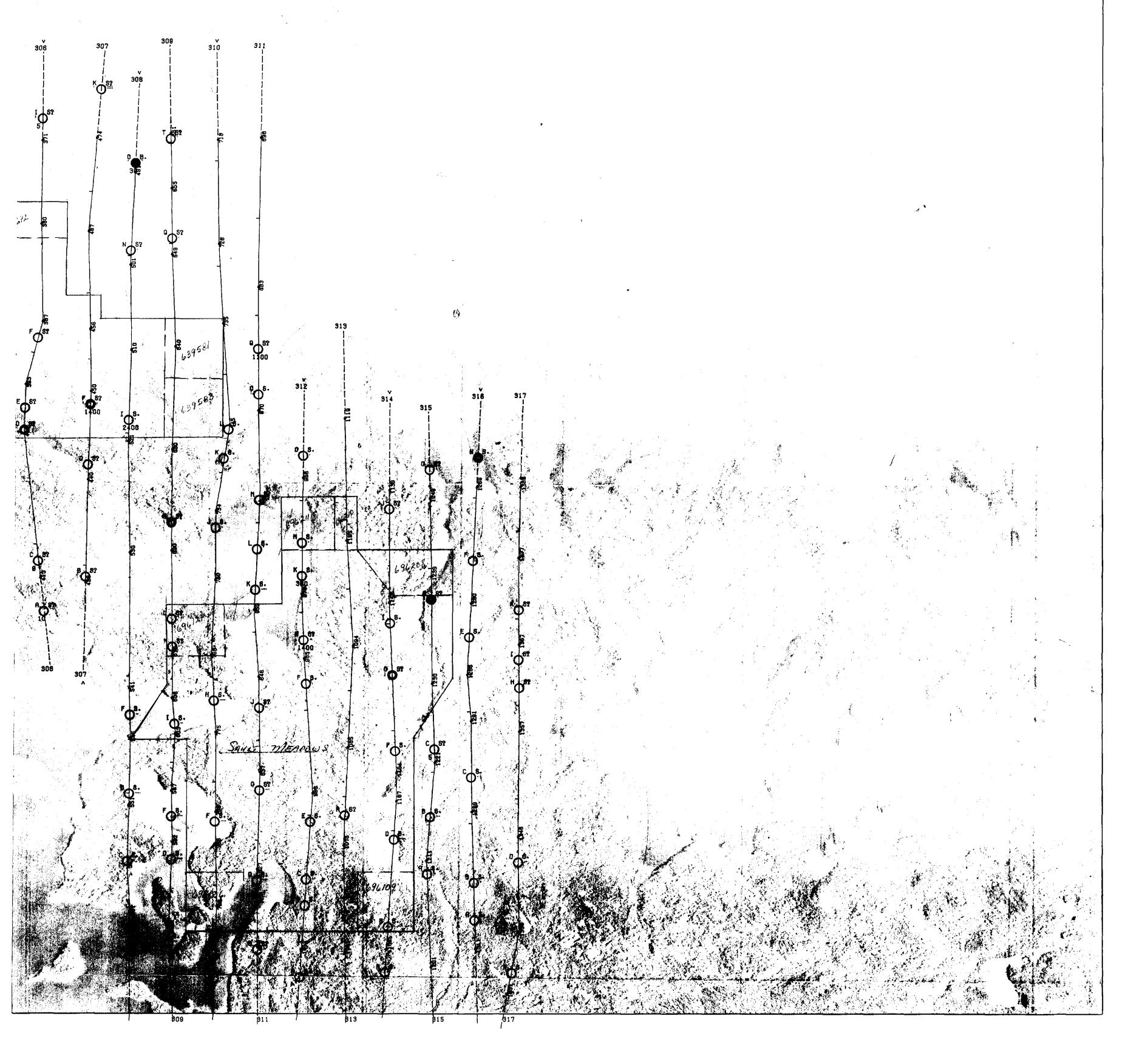
 1/2
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 1 Miles











AREA, ONTARIO

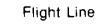
ETIC ANOMALIES

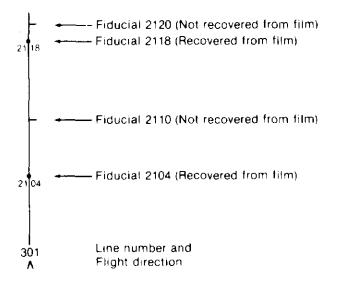
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ERGY CORPORATION

1: 15,840 1 2 1 Miles

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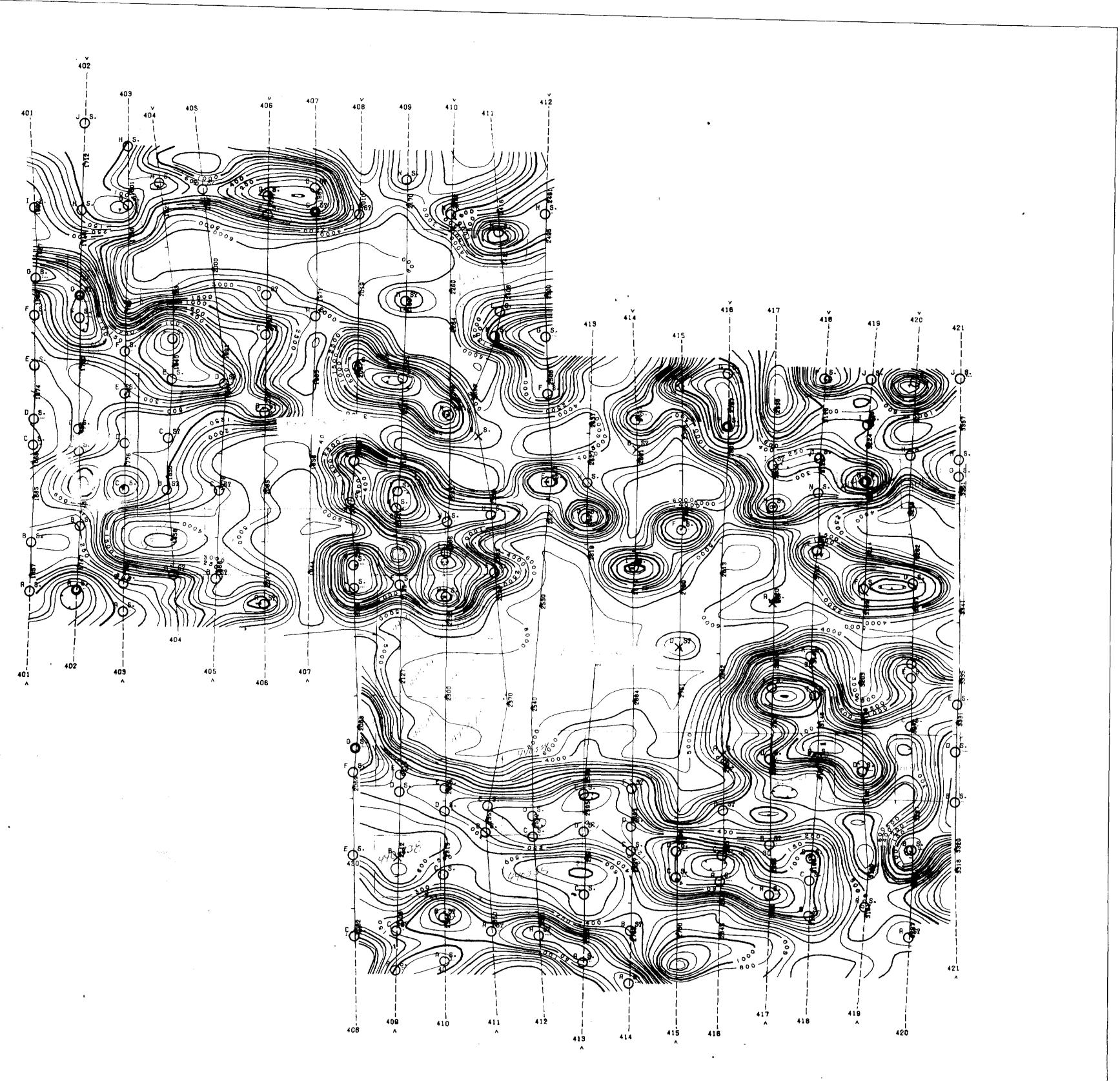




GRADE SYMB 6 ● 5 ★ 4 ● 3 ● 2 ● 1 ○ - ×	<u>OL</u> <u>RANGE (MHOS)</u> > 99 50—99 20—49 10—19 5— 9 < 5 Indeterminate	DIGHEM anomalies are divided into six grades of conductivity-thickness product. This product in mhos is a measure of conductance.
anomaly + C "name" Depth is greater than • 15 m • 30 m • 45 m • 60 m	 interpretive symbol Inphase and Quadrature of Coaxial Coil is greater than . 5 ppm 10 ppm 15 ppm 20 ppm 	Interpretive symbolConductor ("model")"B.Bedrock conductorS.Conductive cover ("horizontal thin sheet")H.Broad conductive rock unit, deep conductive weathering, thick conductive cover ("half space")E.Edge of broad conductor ("edge of half space")L.Culture, e.g. power line, building, fence
arcs indicate the conductor has a thick- ness > 10 m-	E B. 215	dip direction magnetic correlation in nT (gammas) conductor axis flight line

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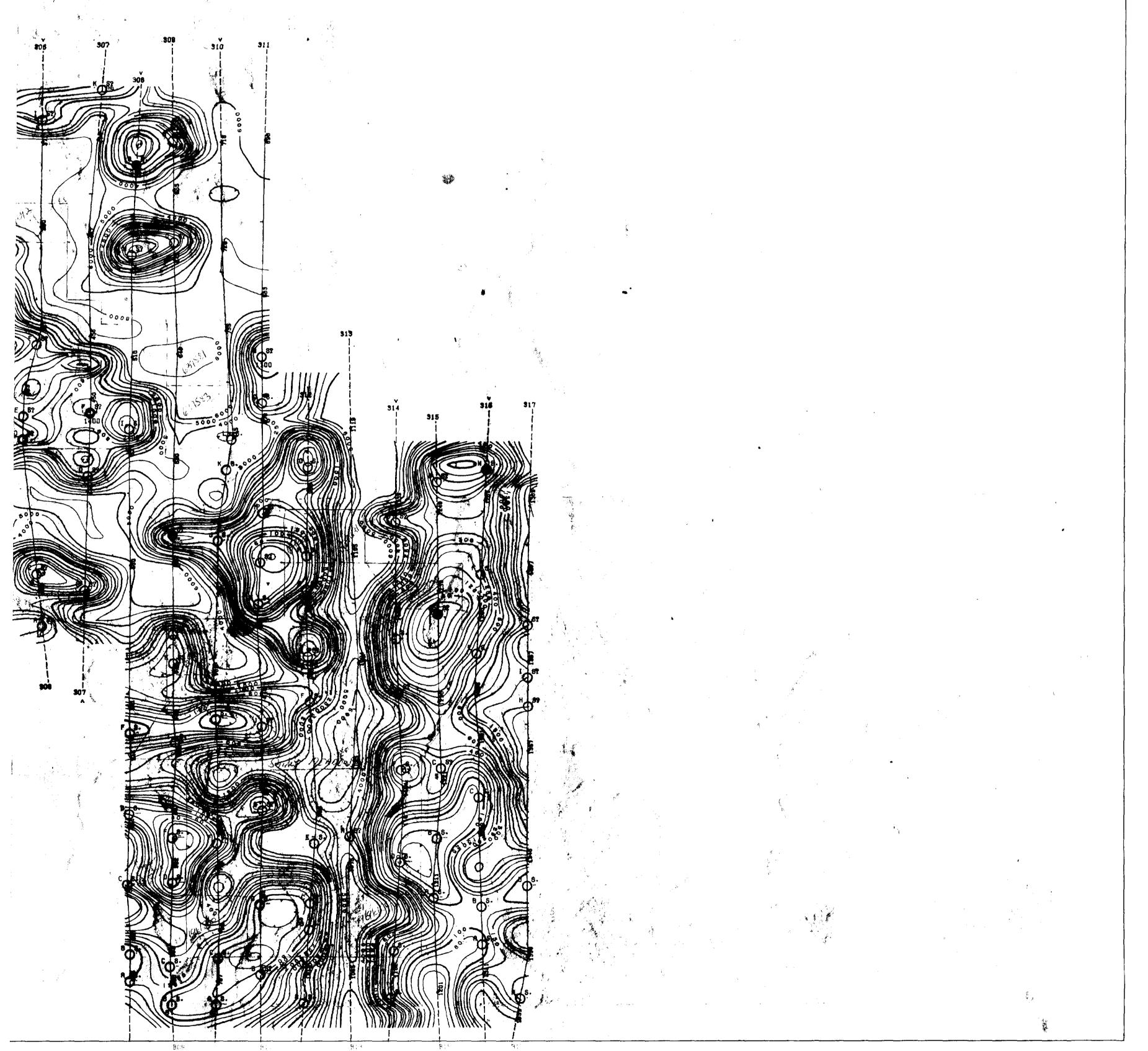
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AREA, ONTARIO

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ERGY CORPORATION

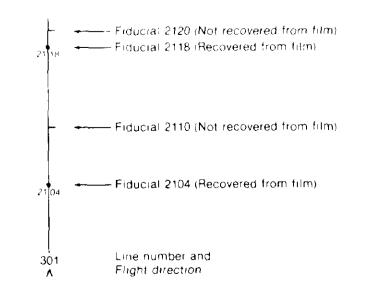
1: 15,840



2.7325

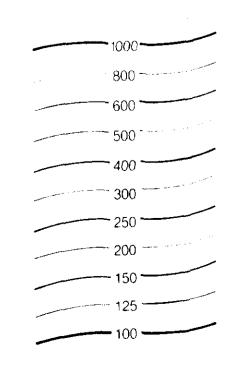
Flight Line

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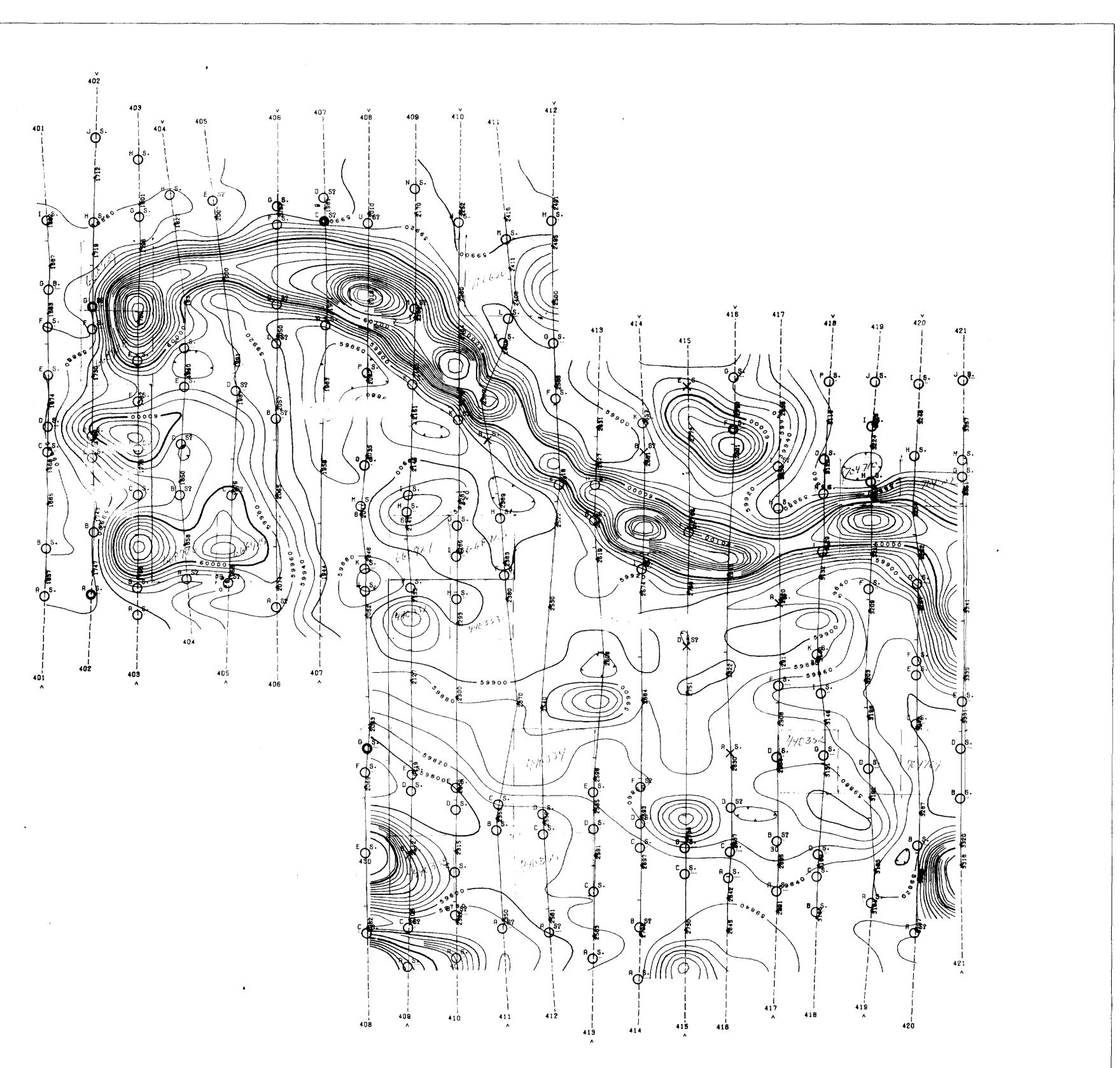
Contours in ohm m at ten intervals per decade

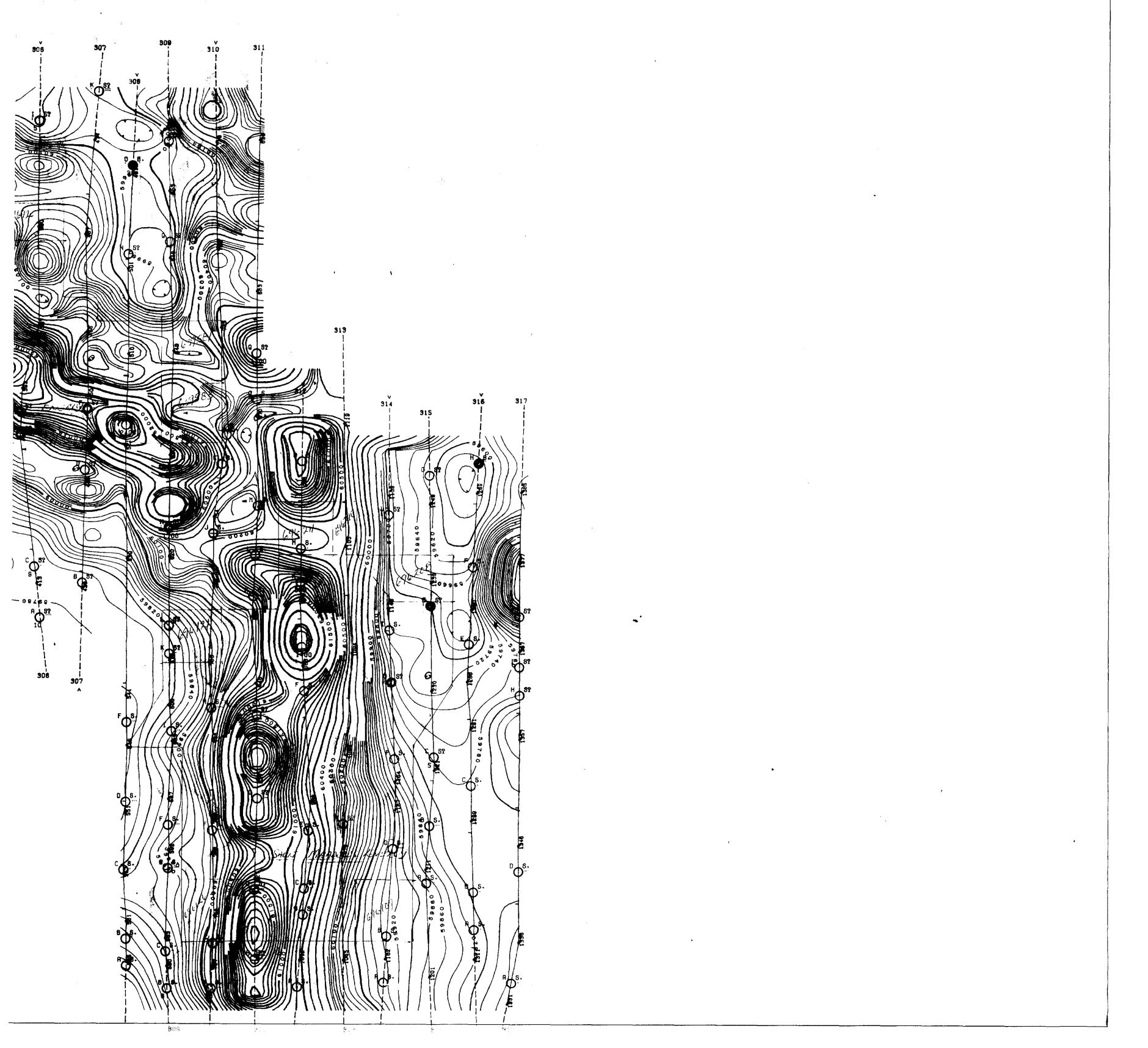


Note

The numbers face in the direction of increasing value.

	JOB 202		DRAWN BY 3.P.	CHECKED BY
	202	SEFT. 04	<u> </u>	- the





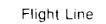
^I SURVEY

AREA, ONTARIO

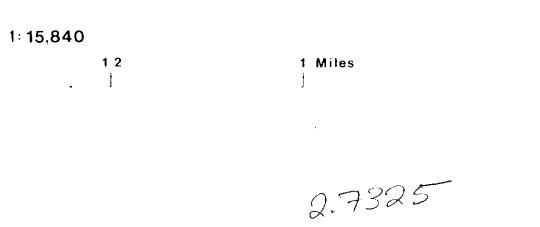
MAGNETICS

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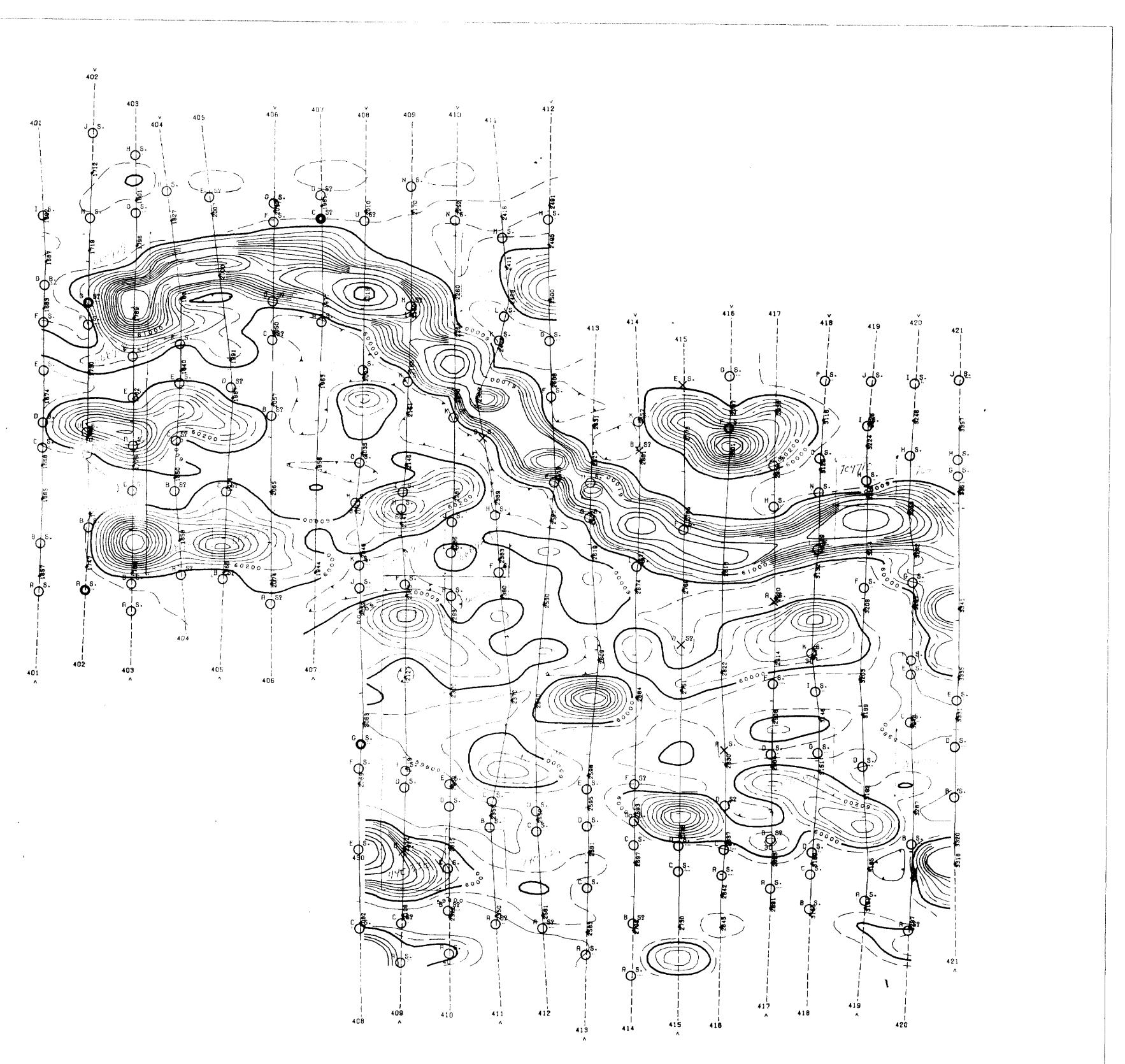
ERGY CORPORATION



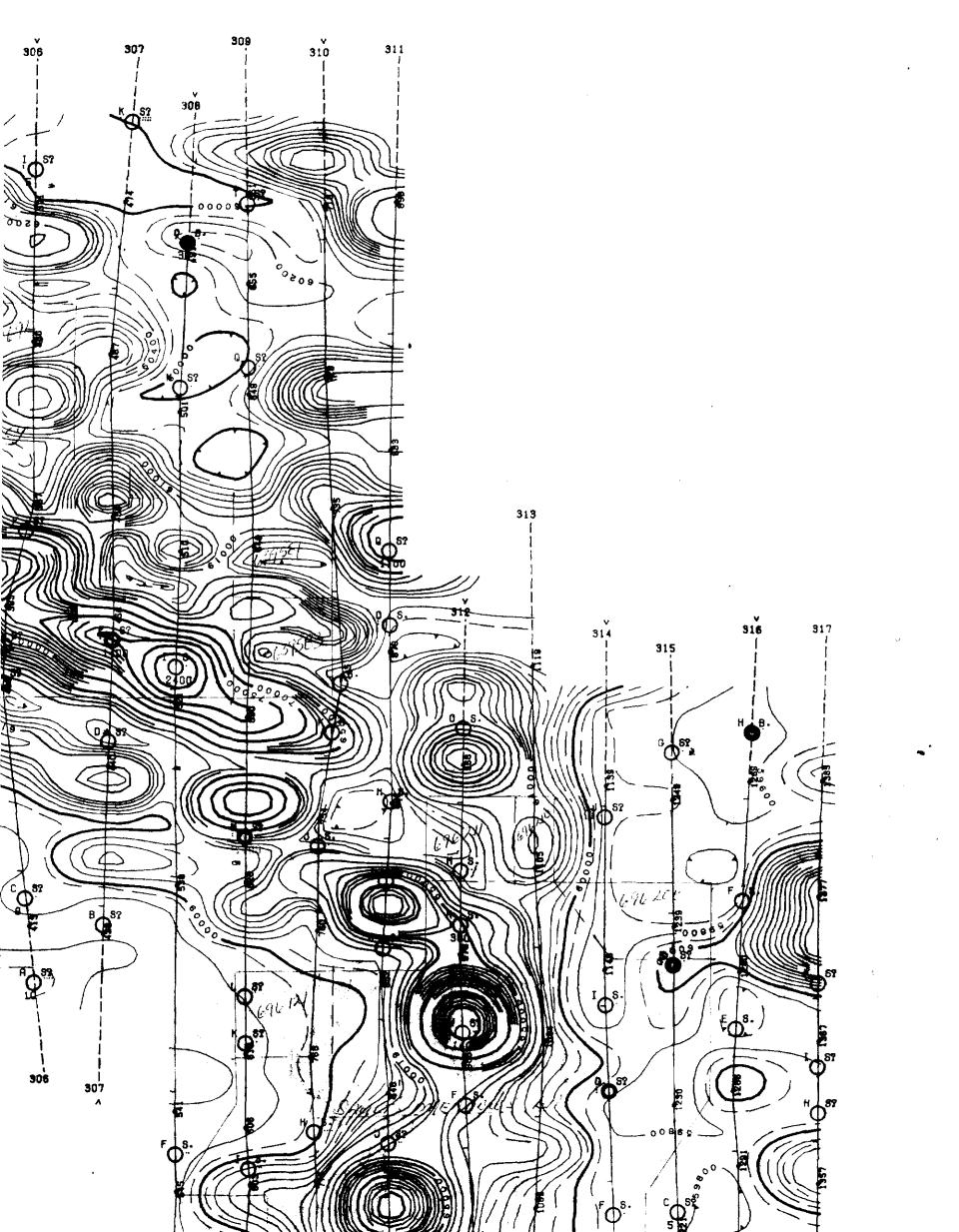




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	202	SEPT. 84	J.	oth



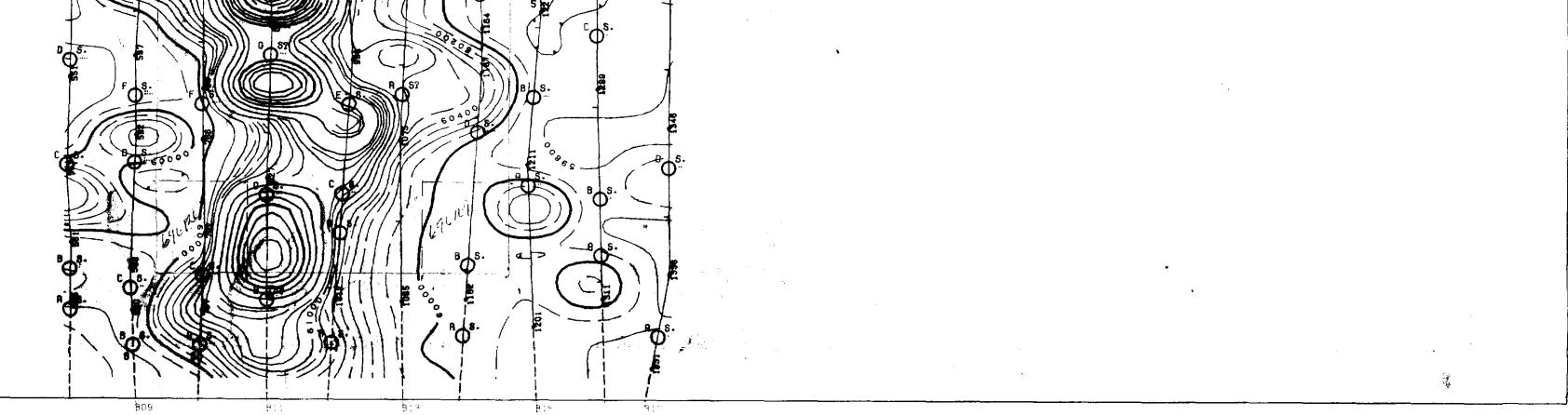
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SURVEY

AREA, ONTARIO

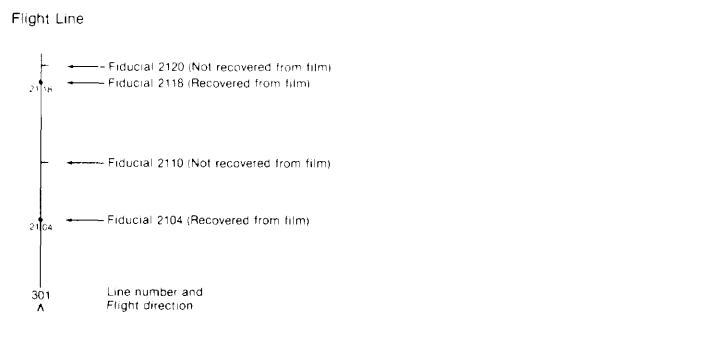
MAGNETICS

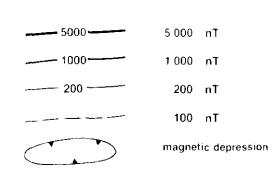
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RGY CORPORATION

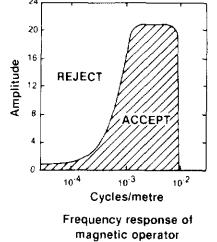
15,840





ISOMAGNETIC LINES

(enhanced field)



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		202	SEPT.	84	D.I.	PL