

REPORT ON AIRBORNE MAGNETIC AND VLF-ELECTROMAGNETIC SURVEYS, FOLEYET AREA, ONTARIO

for

H.W.S. SYNDICATE

RECTTO

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Toronto, Ontario January, 1984

W. E. Brereton, P. Eng. Qual 2.1310.





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1.0 INTRODUCTION

A Dighem airborne geophysical survey totalling 997 line-km with a 200 m line spacing has recently been completed on behalf of the H.W.S. Syndicate of Vancouver. Survey specifications were designed and field work was supervised by MPH Consulting Limited of Toronto on behalf of the Syndicate.

The AS-350 turbine helicopter flew at an average airspeed of 110 km/h with an EM bird height of approximately 30 m. Ancillary equipment consisted of a Sonotek PMH 5010 magnetometer with its bird at an average height of 45 m, a Sperry radio altimeter, a Geocam sequence camera, an RMS GR-33 digital graphics recorder, a Sonotek SDS 1200 digital data acquisition system, a DigiData 1640 9-track 800-bpi magnetic tape recorder and a Totem 2A V.L.F. 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 V.L.F. data 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 1 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 bird swinging produces difficulties in flying the helicopter. The swinging results from the 5 m² of area which is presented by the bird to broadside gusts. The DIGHEM system nevertheless can be flown under wind conditions that seriously degrade other AEM systems.

Only the VLF-EM and magnetic results are being considered for the purposes of this report. Appendix 2 presents Technical Data Statements in respect of assessment credits on claims covered by the surveying.

2.0 LOCATION AND ACCESS

The survey area is centred approximately 78 km southwest of the town of Timmins in northeastern Ontario (Figure 1).

Access is relatively good. Highway 101 West passes immediately to the north of the survey area.

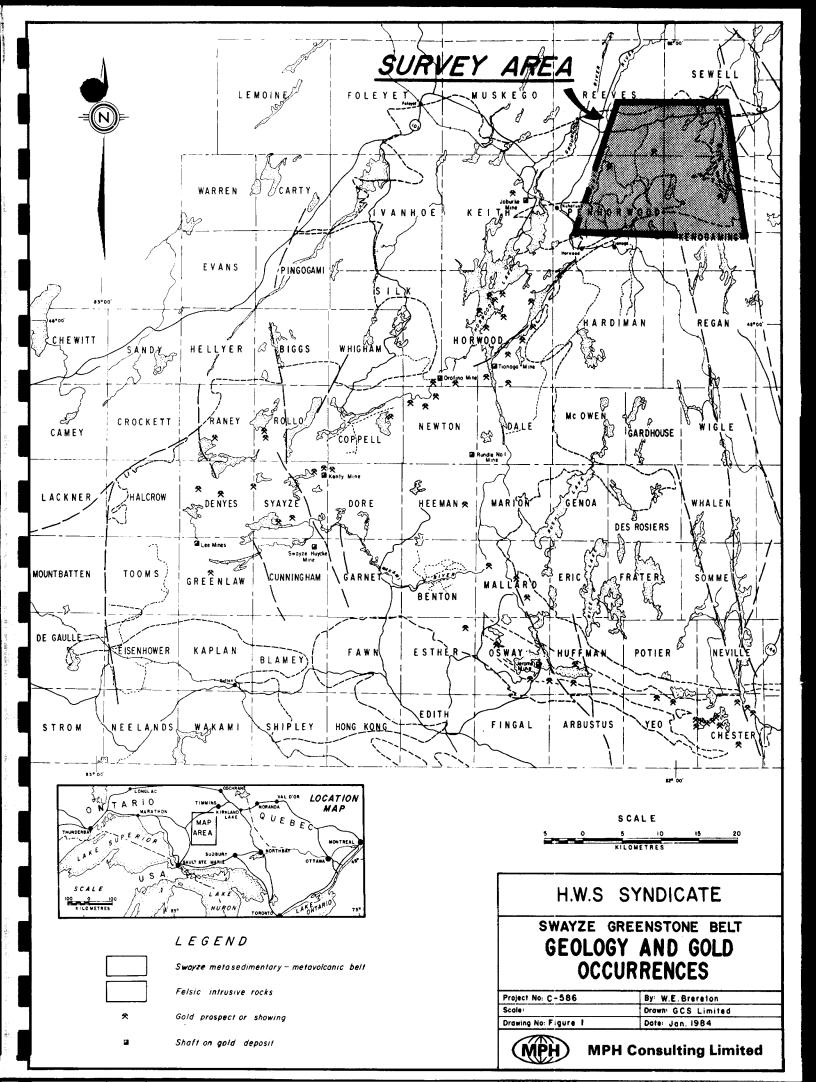
New, good quality gravel roads lead from Highway 101 to the south through the general Kenogaming - Penhorwood area. Numerous subsidiary logging roads extend off these main access roads as indicated on the airborne survey maps.

The general area is under active development by a local lumber company (Mallette Lumber) which should ensure continued year round access.

The main line of the Canadian National Railway passes through the southwest portion of the project area.

The main centre of service and supply in the region is Timmins with a population of 45,000. All manner of mining equipment, contract services, exploration services, etc. are available here along with a skilled and stable mining work force. The smaller, nearby hamlet of Foleyet offers some food, accommodation and supply services.

Of interest, Orofino Resources Ltd. plan to construct a mill on their Silk township gold property which might be available to handle ore from other deposits in the immediate area. This is a very attractive consideration for further gold exploration in the north Swayze area. The presence of a nearby custom mill could



greatly increase the economic viability of a smaller, otherwise non-economic deposit. The closest custom mills at present are those of Pamour Porcupine Mines Ltd. at Schumacher and Pamour, approximately 85 miles by truck to the east.

3.0 GEOLOGY AND MINERAL DEPOSITS

3.1 General

The survey area is located in the northeastern extremity of the Swayze Gold Belt. The Swayze Gold Belt is located southwest of and in rocks grossly equivalent to the Timmins-Porcupine Gold Camp. The Porcupine Camp is located in the west portion of the Abitibi Greenstone Belt of the Canadian Shield. It is the largest gold-producing camp in Canada and one of the largest in the world. During the past seventy years, more than 56.3 million troy ounces of gold have been produced from 18 properties in the area.

The Swayze area contains four past-producing gold mines (Joburke, Tionaga, Halcrow-Swayze and Jerome). Other substantial gold prospects under active exploration/development in addition to Orofino include the Rundle Mine (Sulpetro-Hollinger) in Newton Township, the Kenty Mine in Swayze Township (Cumo Resources-Heron Resources) and the Jerome Mine in Osway Township (Osway Resources).

3.2 History of Exploration and Development

Initial interest in the general region was stimulated by the discovery of two major iron formation bands along the Groundhog River and Woman River in the early 1900's. Following a general waning of interest in iron deposits, gold became the principal metal sought.

Earliest gold discoveries date back to 1909 as prospectors worked westward from the Porcupine Camp which had been discovered that same year.

The first significant gold discovery in the area and subsequent staking rush was made in 1918 on the east shore of Horwood Lake. This became the property of Groundhog Gold Mines Limited in 1934.

Visible gold was discovered on what is now the property of Orofino Resources Limited in the early 1930's. This precipitated another small rush into the region.

Numerous other properties were being actively explored and developed in the Horwood Lake area at this time. The only production during this period was in 1938-39 from the Smith-Thorne (Tionaga) Mine.

Gold was then discovered in 1946 on the Joburke property in Keith Township immediately to the north of Orofino triggering another staking rush in the northern portion of the Swayze metasedimentary-metavolcanic belt.

3.3 Geology

The Swayze area has been the subject of numerous geological studies since the turn of the century. The most pertinent studies in the present area are those by Laird (1935), Harding (1937), Breaks (1978) and Milne (1972).

The Swayze area represents the western extremity of the Abitibi metasedimentary-metavolcanic ("greenstone") belt of

Archean age which extends for several hundred miles east - northeast to the Grenville Front east of Chibougamau.

Swayze greenstone rocks are truncated to the west against the "Kapuskasing High" structural-metamorphic zone.

Of interest, the Abitibi is probably the most prolific metal producer of any greenstone belt in the world.

The present area of interest, the Kenogaming-Penhorwood area, encompasses the northeasternmost extremity of the Swayze greenstone sub-belt.

The present survey area is centred on a discrete, lenticular pile of felsic metavolcanic rocks approximately 13 km long in an east-west direction by 6.5 km wide in the central portion of Kenogaming Township and east-central portion of Penhorwood Township (Ontario Department of Mines Map 2231). The main felsic pile is bounded to the east by the Tanton Lake Fault although a narrow wedge of felsic rocks does extend to the east into adjoining Pharand Township. Rock types include mainly felsic volcaniclastic rocks (tuffs, tuff-breccias) and some flows. The volcanics are extensively intruded by mafic to ultramafic rocks. A major oxide facies iron formation extends along the entire north boundary of the felsic pile and forms the contact with adjoining mafic metavolcanics. Granitic batholith complexes occur to the east and south.

Extensive areas of mafic-ultramafic intrusives crop out directly to the west of the survey area. One of these hosts the Reeves talc/asbestos Mine.

3.4 Mineral Deposits

Economic interest in the immediate survey area has focussed on gold, silver, asbestos, talc, copper-nickel, iron, copper-zinc and barite deposits. There has been economic production of the first four of the above mineral commodities. Gold and silver have been won primarily from structurally-controlled, quartz vein-type deposits, e.g. Joburke mine, Keith Township, which produced 66,500 ounces of gold from 1973 to 1979. Asbestos and, lately, talc are produced at the Reeves Mine of Canadian Johns-Manville in Reeves Township immediately northwest of the present The Orofino Mine to the southwest of the survey property. area is currently being actively explored with a view to a productive decision in early 1984. Drill indicated reserves are currently quoted in the range of 1,000,000 tons of 0.17 oz. Au/ton.

4.0 AIRBORNE SURVEYS

4.1 Magnetics

Total field magnetic data were digitally recorded in the aircraft to an accuracy of 1 nT (i.e. 1 gamma). The digital tape was then computer processed to yield total field magnetic contour maps. These results are presented on four sheets at a scale of 1:10,000 at rear.

Sheet 1

Magnetics here are relatively active. There are two distinct magnetic trends. The more prominent of these is east-west to northeast-southwest. This is interrupted, truncated and dislocated by numerous north-south trending features. A good example is in the central portion between flight lines 39 and 40. This north-south trend is interpreted to be reflective of various faults in this direction, some of which are filled by diabase dikes.

The build-up in magnetic intensities in the southwest corner of the sheet is reflective of the mafic/ultramafic intensive complex that hosts the Reeves Mine.

In all, the magnetic signature is consistent with the interpretation that this area is underlain by mafic volcanics with variable magnetite content and associated ultramafic intrusives.

Sheet 2

This very impressive magnetic picture can be directly correlated with known geological features. Prominent oval to elongate magnetic highs in the northwest quadrant of the sheet correlate directly with known mafic to ultramafic intrusive bodies.

The distinctive hook-like anomaly which extends from the northeast corner into the central portion the map area correlates directly with a mixed oxide - sulphide facies iron formation which has been defined by previous drilling and mapping.

A pronounced high in the east-central portion of the sheet at the south end of Hanrahan Lake relates directly to a known ultramafic intrusive.

Again a series of north-south faults, some filled with diabase, transect and offset magnetic trends. A prominent north-trending fault crosses the entire sheet in the vicinity of line 31 with another in the central portion of lines 17 and 18. A north-striking diabase intrusive is evident along the north end of line 901.

Sheet 3

The prominent linear magnetic high marking the iron formation on Sheet 2 continues across the south end of Sheet 3. The iron formation becomes much wider and more diffuse to the east.

The remainder of the Sheet is characterized by a relatively active pattern displaying numerous localized highs and lows. A generalized east-west trend can be discerned. This signature is reflective of underlying mafic volcanics.

Several major north-south faults/diabase dikes transect the sheet. A very obvious one of these is in the vicinity of lines 61-63.

Sheet 4

This is an area of intense magnetic activity excepting the southeast corner.

A very strong, generally linear east-west anomaly crosses the north part of the sheet. This coincides directly with iron formation as defined by previous drilling and which extends onto adjoining sheets. The iron formation is sharply truncated to the east by the north-trending Tanton Lake Fault.

Intense magnetic activity in the central and southwest portion of the sheet is reflective of numerous ultramafic bodies intrusive into felsic volcanics. Some of these intrusives have been investigated in the past for their nickel/asbestos potential.

The area of decreased magnetic activity and amplitudes in the southeast is reflective of felsic volcanic rocks, mainly tuffs and tuff-breccias.

North-south fault/diabase features are again prominent as along lines 71-72.

4.2 VLF-EM

VLF-EM anomalies are not EM anomalies in the conventional sense. EM anomalies primarily reflect eddy currents flowing in conductors which have been energized inductively by the primary field. In contrast, VLF-EM anomalies primarily reflect current gathering, which is a non-inductive phenomenon. The primary field sets up currents which flow weakly in rock and overburden, and these tend to collect in low resistivity zones. Such zones may be due to graphite and/or sulfides, shears, river valleys and even unconformities.

The Herz Industries Ltd. Totem VLF-electromagnetometer as used in the present survey measures the total field and vertical quadrature VLF components. Both these components are digitally recorded in the aircraft with a sensitivity of 0.1 percent. The total field yields peaks over VLF current concentrations whereas the quadrature component tends to yield crossovers. Both appear as traces on the profile records. The total field data also are filtered digitally and displayed on a contour map, to facilitate the recognition of trends in the rock strata and the interpretation of geologic structure.

The response of the VLF total field filter operator in the frequency domain is basically similar to that which can be used to produce enhanced magnetic maps. The two filters are identical along the abscissa but different along the

ordinant. The VLF-EM filter removes long wavelengths such as those which reflect regional and wave transmission variations. The filter sharpens short wavelength responses such as those which reflect local geological variations. The filtered total field VLF-EM contour map is produced with a contour interval of one percent.

Filtered VLF results for the 4 sheets are discussed following:

Sheet 1

A distinct east-west trend is apparent in virtually all of the VLF anomalous features in this area. There is one strong VLF trend which extends from just south of the Reeves Mine pit across the entire sheet. This anomaly may be of economic interest as there is a known gold showing associated with it on the easternmost of the two claims held by other interests southeast of the small lake (claim 724840).

The bulk of the VLF trends are interpreted to be reflective of zones of shearing in bedrock. Some of this is localized along graphitic (+ sulphidic) interflow sedimentary horizons as indicated by previous drilling.

As with the magnetics, the effects of north-south faulting are clearly evident in the form of offset and truncation of VLF trends. One such fault passes along the west side of claim 583226, Reeves Township.

Sheet 2

There is a large amount of primarily east-west VLF activity in this area.

The known sulphide-oxide iron formation in the northeast corner of the sheet is marked by a narrow, intense VLF anomaly. Other sections of the iron formation also have a VLF response as at the south end of Hanrahan Lake (claims 730371 to 730372).

The VLF trends represent east-west shearing and various graphitic sulphidic horizons. The strong VLF trend along the north portion of the sheet which extends east from claim 743064 (Penhorwood Township) coincides directly with a known, regional graphitic unit.

North-south faulting is again in evidence with a good example being the structure which extends directly north from Montgomery Lake.

Sheet 3

Some of the VLF trends defined on Sheet 1 continue across the present sheet. Anomalies in general in these mafic volcanics do not appear as intense as those to the south.

Anomalous trends are again interpreted to be related to zones of shearing and local to regional graphitic ($\frac{+}{2}$ sulphidic) interflow sedimentary members.

A somewhat "broken-up" aspect to the anomaly picture in the northeast corner of the Syndicate property is interpreted to be reflective of closely-spaced north to northeast faulting.

Sheet 4

A pronounced linear trend along the extreme north edge of the sheet coincides directly with known sulphide-oxide iron formation. The VLF anomalous trend in the south part of the sheet which passes through, for example, claim 742362 (Kenogaming Township) is interpreted to represent on a regional basis the stratigraphic equivalent of the above iron formation.

Remaining VLF trends are again ascribed to a combination of east-west and east-southeast shearing and, in some cases, graphitic-sulphidic units. The conclusion that much of the VLF is shear-related is based on limited field observations, as in the area at the south end of Akweskwa Lake where east-west VLF trends clearly crosscut felsic pyroclastic stratigraphy and are often directly coincident with topographic linears (eg. creeks, swampy depressions).

5.0 CONCULSIONS AND RECOMMONDATIONS

Helicopter-borne total field magnetic and VLF-electromagnetic surveys recently completed on the H.W.S. Syndicate holdings in northeast Swayze Gold Belt have aided our geological interpretation of the project area and have presented some VLF (+ magnetic) targets that might be of economic significance. A high priority target for syngenetic gold-base metals deposits considering results to date is along the sulphide-oxide iron formation of the top of the felsic pile in Kenogaming-Penhorwood townships.

A complete compilation and evaluation of all previous mining work should be carried out. The results of this should then be integrated into our existing geophysical-geological data base such that targets for more detailed follow-up can be selected.

Respectfully submitted.

W.E. Brereton, P.Eng.

REFERENCES

Breaks, F.W.; 1978

Geology of the Horwood Lake Area, Ont. Geol. Surv. Report 169

Harding, W.D.; 1937

Geology of the Horwood Lake Area, Ont. Dept. Mines An. Report, Vol. XLVI, P II, 1937

Laird, H.C.; 1935
Horwood Lake Area, Ont. Dept. Mines An. Report, Vol. XLIV,
P VII, 1935

CERTIFICATE OF QUALIFICATIONS

I, William E. Brereton, of Toronto, Ontario, do hereby certify that:

- 1. I am a consulting geologist with an office at 120 Adelaide Street West, Suite 2406, Toronto, Ontario, M5H 1T1, Canada.
- 2. I obtained an Honours B.Sc. degree in Geology and Physics from Queen's University in 1971 and an M.Sc.(A) in Mineral Exploration from McGill University in 1977.
- 3. I have practised my profession continuously since graduation and have been in private independent practice since 1977.
- 4. I am a member of the Association of Professional Engineers of the province of Ontario.

5. I personally provided overall supervision in respect of airborne surveys herein described.

> William E. Brereton, P.Eng., Toronto, Ontario, Canada,

January, 1984.

APPENDIX 1

AIRBORNE EQUIPMENT SPECIFICATIONS

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 1:10,000. 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 provided by standard flight path recovery techniques.

Table A-1. The Digital Profiles

Channel		Scale
Name (Freq)	Observed parameters	units/mm
MAG	magnetics	10 nT
ALT	bird height	3 m
CXI (900 Hz)	vertical coaxial coil-pair inphase	1 ppm
CXQ (900 Hz)	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
CPS (900 Hz)	ambient noise monitor (coplanar receiver)	1 ppm
CPI (7200 Hz)	horizontal coplanar coil-pair inphase	1 ppm
CPQ (7200 Hz)	horizontal coplanar coil-pair quadrature	1 ppm
CPS (7200 Hz)	ambient noise monitor (coplanar receiver)	1 ppm
VLFT	VLF-EM total field	1 %
VLFQ	VLF-EM vertical quadrature	1 8
	Computed Parameters	
DIFI (900 Hz)	difference function inphase from CXI and CPI	1 ppm
DIFQ (900 Hz)	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
	apparent depth	3 m
P (7200 Hz)	apparent depth	3 m
EO% (900 Hz)	apparent weight percent magnetite	



Sonotek Limited
2410-5 Dunwin Driva, Mississauge
Dnterio — Cenede — 151 1J9
telephone: (416) 828-6810
telex: 065 - 24733

Specification for the Proton Precession Magnetometer:

Sensitivity

t0.1 gamma for sample times of 1 second

or longer

tl gamma for sample times of less than

1 second

Range

20,000 to 100,000 gammas

Sampling Rate

Programmable in 0.1 sec steps from 0.3 to

2.0 sec (same as scan rate of data system)

Tuning

Automatic

Reference Frequency

Accuracy ±1 ppm at 25°C

Stability 5 ppm/year

Auxiliary Output

Analog signal monitoring output (BNC)

Indicator

Polarize current LED monitor

Power

28±4 VDC. For typical sensor:

7 A max current, 50% duty cycle,

100 W average power

Physical Data:

Signal Package

Width 241 mm (9.5 in), half-rack width

Height 133 mm (5.25 in)

Depth 254 mm (10 in)

Weight 5 kg (11 lb)

Toroid Sensor

Diameter 150 mm (5.9 in)

Height 170 mm (6.7 in)

Weight 5.5 kg (12 lb)

mergine 3.3 kg (12 1

Airfoil plus Toroid Sensor Diameter 170 mm (6.75 in)

Length

Weight 9 kg (20 1b)

660 mm (26 in)

Totem 2A

VLF Electromagnetic airborne survey instrument

Multi channel

Specifications

Introduction.

The Totem-2A measures basically the same parameters and shares the same package configuration as the well established Totem-1A.

This new generation instrument, however, measures multiple parameters on two channels simultaneously, with less noise and greater accuracy. These advancements have been achieved while maintaining the simple installation and operating procedures of the 1A model.

The Totem-2A employs state of art digital and linear integrated circuits to implement the functions of crystal controlled phase locked loop frequency synthesizers, dual frequency heterodyne conversion and proprietary time domain sampling vector computation techniques.

Features

The principal parameters measured are the change in total field and the vertical quadrature field. Parameters also available are the total field gradient (from sensors in two locations) and the horizontal quadrature field. The quadrature polarity is defined by the direction of flight relative to the field. The total and quadrature magnitudes are insensitive to sensor orientation in pitch, roll and yaw.

One obvious advantage of dual frequency operation is that primary sources can be selected to ensure good coupling with conductors of any orientation. Potential uses of the gradient mode are enhanced interline contouring and deliniation of multiple conductors with horizontal and vertical gradient respectively.

Specifications subject to change.

Primary source:

Magnetic field component radiated from VLF radio transmitters (one or two simultaneously).

Parameters measured:

Total field, vertical quadrature, horizontal quadrature, gradient.

Frequency range:

15kHz to 25.0kHz front panel selectable for

each channel in 100Hz steps.

Sensitivity range:

130uV/m to 100mV/m at 20kHz, 3dB down at

14kHz and 24kHz.

VLF signal bandpass:

-3dB at ±80Hz, < 4% variation at ±50Hz.</p>

Adjacent channel rejection:

300 to 800Hz = 20 to 32dB, 800 to 1500Hz = 32 to 40dB, > 1500Hz > 40dB (for < 2% noise

envelope).

Out of band rejection:

10kHz to $2.5kHz = 5x10^{-4}Am$ to $5x10^{-1}Am$

2.5kHz rising at 12dB/octave

30kHz to $60kHz = 5x10^{-4}A/m$ to $8x10^{-3}A/m$

> 60kHz rising at 6dB/octave (for no overload condition).

Output span:

 $\pm 100\% = \pm 1.0V$

Output filter:

Time constant 1sec for 0 to 50% or 10% to 90%.

noise bandwidth 0.3Hz (second order LP).

Internal noise:

1.3uV/m rms (ambient noise will exceed this).

Sferics filter:

Reduces noise contribution of impulse

interference.

Electric field rejection:

< 0.5% error for 20m tow cable.

Controls:

Power switch, frequency selector switches time

& ortho) level controls (line & ortho), meter switch (total/quad) sterics filter switch.

Displays:

Meters (line & ortho), sferics light, overload light

inputs:

Power, 23 to 32 Vdc fused 0.5Amp. Signal, Sensor upper, Sensor lower.

Outputs: To

Signal, Consor opport Consor lower

Total, quad, gradient, multiplexed (line & ortho)

Dimensions & weight:

Audio monitor, stereo line & ortho

Console 19" rack mounted, 4.5cm high x 34cm deep, 3.8kg. Sensor and pre-amplifier assembly

15cm dia. and 46cm long, 1.5kg.

APPENDIX 2

TECHNICAL DATA STATEMENTS

File	



OFFICE USE ONEY

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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

Type of Survey(s) Airborne, VLF, EM, Magnetics	
Township or Area Kenogaming, Penhorwood, Reeves,	MINING CLAIMS TRAVERSED
Claim Holder(s) R. Sheppard, 21-2246	List numerically
Folkstone Way, W. Vancouver, B.C.	
Survey Company MPH Consulting/Dighem Ltd.	
Author of Report W.E. Brereton	(prefix) (number)
Address of Author 2406-120 Adelaide St. W., Toronto	
Covering Dates of Survey Oct./83 - Jan./84 (linecutting to office)	AS ATTACHED
Total Miles of Line Cut	
SPECIAL PROVISIONS DAYS	
CREDITS REQUESTED Geophysical per claim	
Electromagnetic	
ENTER 40 days (includes	
line cutting) for first survey. -Magnetometer -Radiometric	
ENTER 20 days for each —Other	
additional survey using Geological	
same grid. Geochemical	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) Magnetometer 20 Electromagnetic 20 Radiopagtric	
(enter days per claim)	
DATE: Jan. 31/84 SIGNATURE:	
Author of Report or Agent	
	,
Res. GeolQualifications	
Previous Surveys	
File No. Type Date Claim Holder	
	TOTAL CLAIMS 614

SELF POTENTIAL	Range
InstrumentSurvey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	th — include outcrop map)
(t) per dep	
OTHERS (SEISMIC, DRILL WELL LOGGING ETC	C.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)_	
<u> </u>	
AIRBORNE SURVEYS	
Type of survey(s) VLF, Magnetics, EM	
Totem 2A VLF, Sonotek F	PMH 5010 Mag, Dighem III EM system
(specify fo Accuracy EM - 0.2 ppm, Magnetics -	
(specify fo	or each type of survey)
Aircraft used AS-350 Helicopter	
Sensor altitude 30 m	
Navigation and flight path recovery methodVis	sual Navigation
Aircraft altitude 45 m	Line Spacing 200 m

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	730228		730340		741108		741479
	730229		730341		741109		741480
	730230		730342		741110		741481
	730231		730343		741111		741482 741483
	730232		730344		741112		741483 741484
	730233		730345 730346		741113 741114		741485
	730234 730235		730347		741114		741486
	730236		730348		741116		741487
	730237		730349		741117		741488
	730238		730350		741118		741489
	730239		730351		741119		741490
	730240		730352		741120		741491
	730242		730353		741121		741492 741493
	730243		730354 730355		741122		741495
	730244 730245		730356		741123 741124		741496
	730245		730357		741124		741497
	730240		730358		741127		741498
	730248		730359		741128		741499
	730249		730360		741129		741500
	730250		730361		741130		741501
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				PRECIX NUMBER	PREFIX	NUMBER
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742346	742363		743051	783016		783091
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Report of Work #29/84
(Geophysical, Geological,
Geochemical and Expenditures) #2





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Type of Survey(s) AIRBORNE, VLF	, EM and MAGNE	TIC SUR	VEYS	-	Township	or Area Ke	enogaming,	Sewell,
Claim Holder(s)						Prospect	Reeves Town or's Licence No.	snips
ROBERT JAMES	SHEPPARD						l-21444	
Address							,	
<u> </u>	load, North Van	couver,	B.C.	,				
Survey Company Dighem Surve	ying Co. (MPH)	Consulti	ing Ltd.			30 83 Mo. Yr.	Total Miles of III	ne Cut
Name and Address of Author (c W.E. Brereton	of Geo-Technical report) , 120 Adelaide	.St. W.,	Suite				15	·····
Credits Requested per Each	Claim in Columns at r	ight	Mining C	laims Traversed	(List in num	erical segu	ence)	
Special Provisions	Geophysical	Days per	₩.	lining Claim	Expend.		Mining Claim	Expend.
For first survey:		Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	- Electromagnetic		Р	725566		·ρ	725589	
includes line cutting)	- Magnetometer			725567			725590	
For each additional survey: using the same grid:	- Radiometric			725568			725591	
Enter 20 days (for each)	- Other		8	725569			725592	
1 to 1	Geological			725570			725593	

For first survey:		
Enter 40 days. (This	- Electromagnetic	
includes line cutting)	- Magnetometer	
For each additional survey: using the same grid:	- Radiometric	
Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here;	- Electromagnetic	
e 3 4 4 € 6 18 18 18 18 18 18 18 18 18 18 18 18 18	- Magnetometer	
	- Radiometric	
	- Other	
RECO	StolBicE D	
	Geochemical	
Airborne Credits FEB	1 1984	Days per Claim
Note: Special provisions Receipt No. credits do not apply	Elegromagnetic	20
to Airborne Surveys.	Magnetometer	20
MOROUP	Madiomatic E	
Expenditures (excludes powe	r stripping)	
Type of Work Performed	a 0 1 1984)	P.L.
Performed on Claim(s)	Pal	
F.M.	1112 112 45	
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Calculation of Expenditure Days		Total
Total Expenditures		s Credits
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Instructions		
Total Days Credits may be ap choice. Enter number of days		

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1 55 110 10-11
Mining Mining Hecorder
dinin 6

Date Jan 31/84 Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

MAURICE HIBBARD

In columns at right.

Date Certified

CLAIM NUMBERS

	PREFIX	- NUMBER	PREFIX	NUMBER	PREFIX	NUMBER	PREFIX	NUMBER
P	742342 P	742358	Р	743046	Р	783011	P	783085 783086
	742343	742359		743047		783012		
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CLAIM NUMBERS

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120 Adelaide St. W. Suite 2406 Toronto, Canada M5H 1W5 (416) 365-0930 Telex 06-219626



May 29, 1984

2.6342

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

Dear Mr. Yundt:

Re: File 2.6342

Enclosed please find claim maps showing the exact claims on which airborne survey credits are being requested.

The 650 mile figure for airborne coverage on the claims is incorrect as you point out and should in fact have read 650 km.

Yours very truly

MPH CONSULTING LIMITED

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MINING LANDS SECTION

W.E. Brereton Vice President

WEB/sw

April 19, 1984

Our File: 2.6342

Robert James Sheppard 1333 Kilmer Road North Vancouver, B.C. V7K 1R3

Dear Sir:

RE: Airborne Geophysical (Magnetometer & Electromagnetic)
Survey on Mining Claims P 725566 et al in the Townships
of Sewell, Penhorwood & Reeves and the Area of Kenogaming

Returned herein are the maps for the above-described survey.

On each plan please show the numbers of the perimeter claims.

Also, there seems to be a discrepancy on the Technical Data
Statement concerning the flight miles. You state that the
miles flown over the total area was 600 miles (1,000 km)
and that the miles flown over the claims only was 650 miles.
Please check your records and advise this office of the correct
figure.

When submitting this material, please quote file 2.6342.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-6918

S. Hurst:mc

cc: Mining Recorder Timmins, Ontario

Encl.



1593 (81/10)



Geotechnical Report Approval

File			-		
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o: Geophysics	Mr. R. Barlow.		47-7-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
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Approved	Wish to see again with corrections	Mach 19	84 Rul
o: Geology - Ex	penditures		
omments			
Approved	Wish to see again with corrections	Date	Signature
: Geochemistr	y		
omments		· · · · · · · · · · · · · · · · · · ·	
		Date	Signature

Assesser

Approved Reports of Work seni out

Notice of Intent filed

Approval after Notice of Intent sent out

Duplicate sent to Resident Geologist

Duplicate sent to A.F.R.O.

1984 02 13 Your File: 2.6342

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

Dear Sir:

We have received reports and maps for an Airborne Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims P 725566 et al (614 claims) in the Townships of Kenogaming, Penhorwood, Reeves and Seweäl.

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

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as seen as mossible.

Yours very truly,

J.R. Morton Acting Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

A. Barr:sc cc: R. Sheppard 21 - 2246 Folkstone Way W. Yancouver, B.C. V7S 2X7

cc! W.E. Brereton 2406 - 120 Adelaide St.W Toronto, Ontario M5H 1T1

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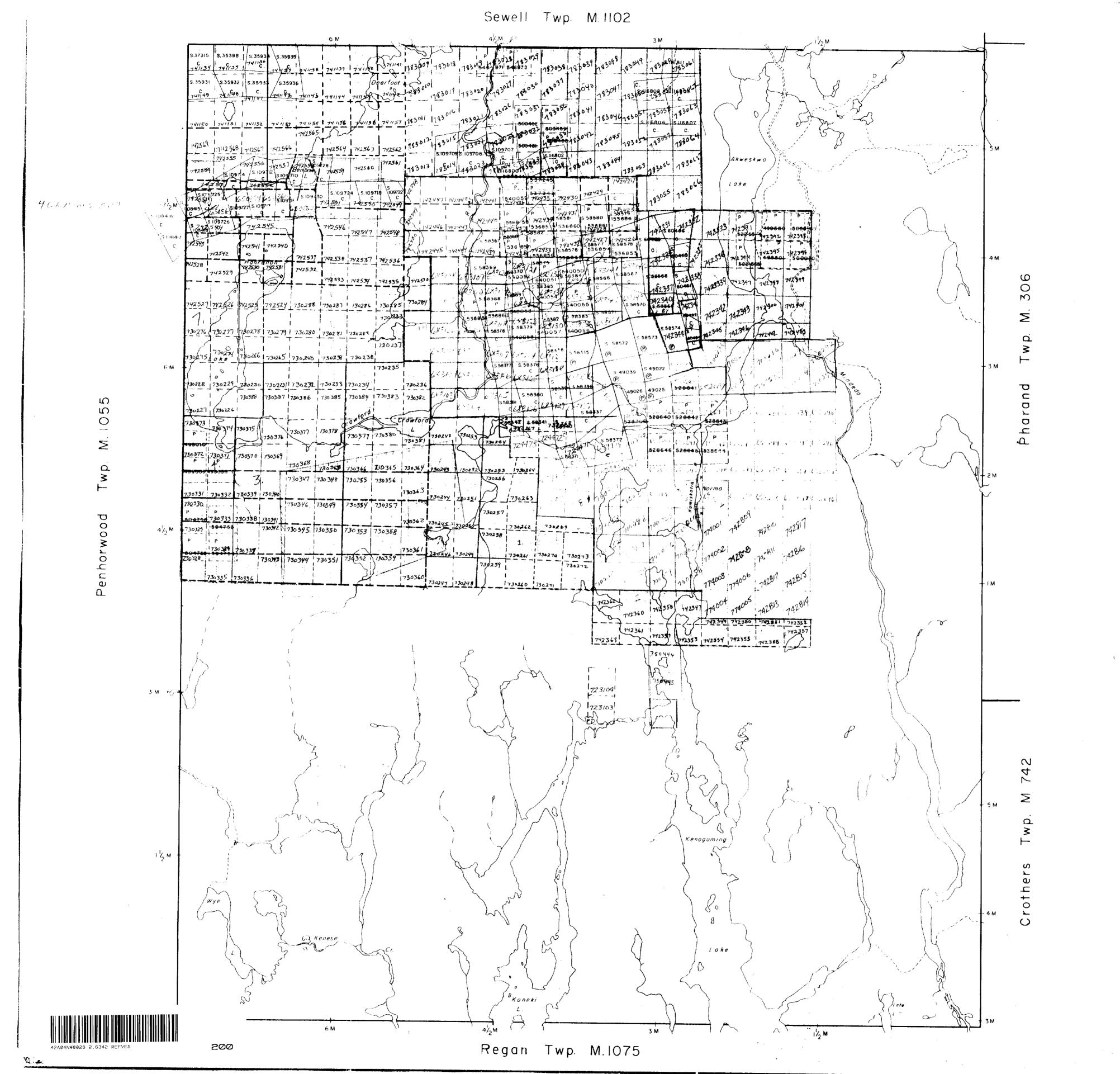
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THE TOWNSHIP

KENOGAMING

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND CROWN LAND SALE LEASES LOCATED LAND LICENSE OF OCCUPATION MINING RIGHTS ONLY SURFACE RIGHTS ONLY IMPROVED ROADS KING'S HIGHWAYS RAIL WAYS POWER LINES MARSH OR MUSKEG CANCELLED

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers.

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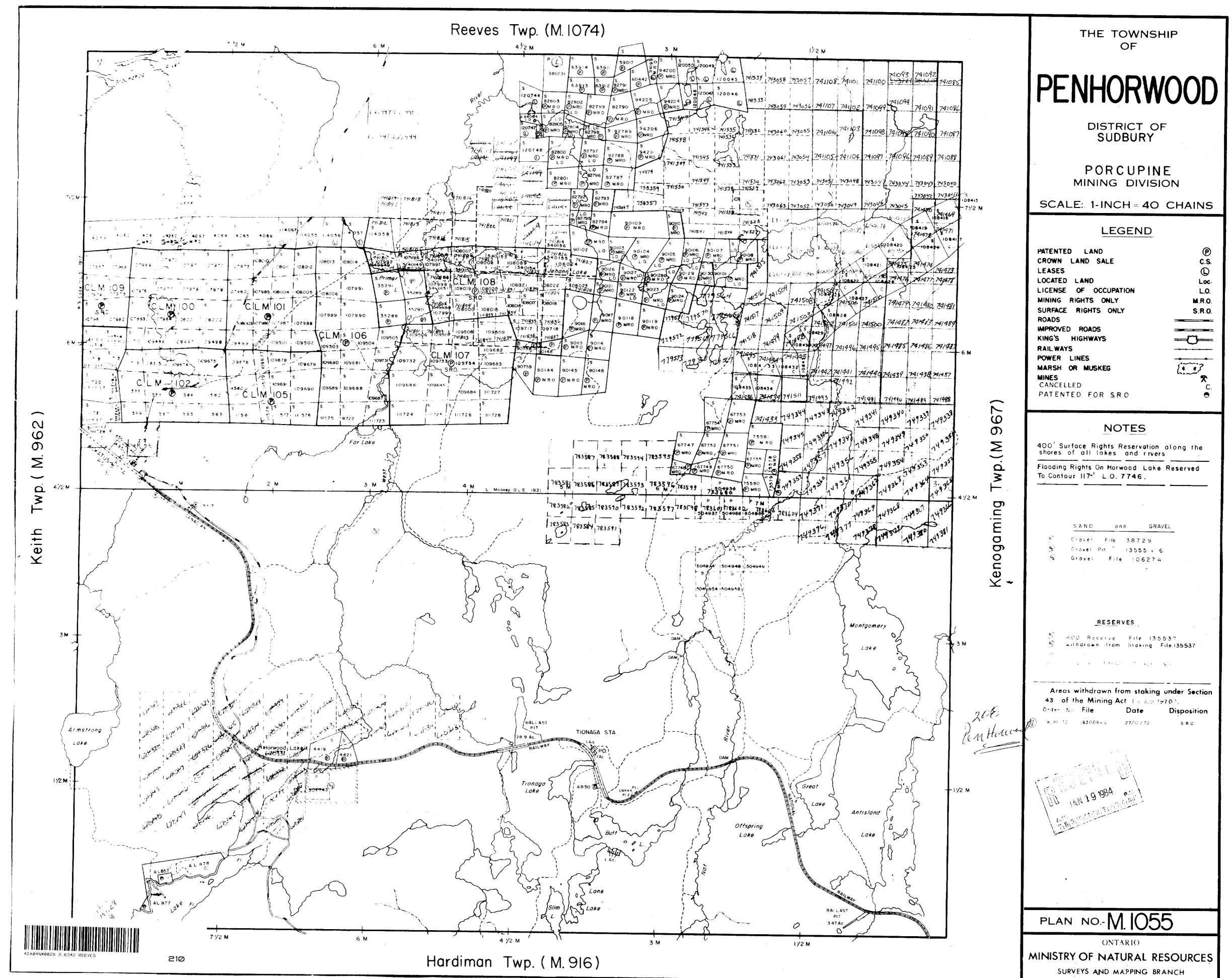
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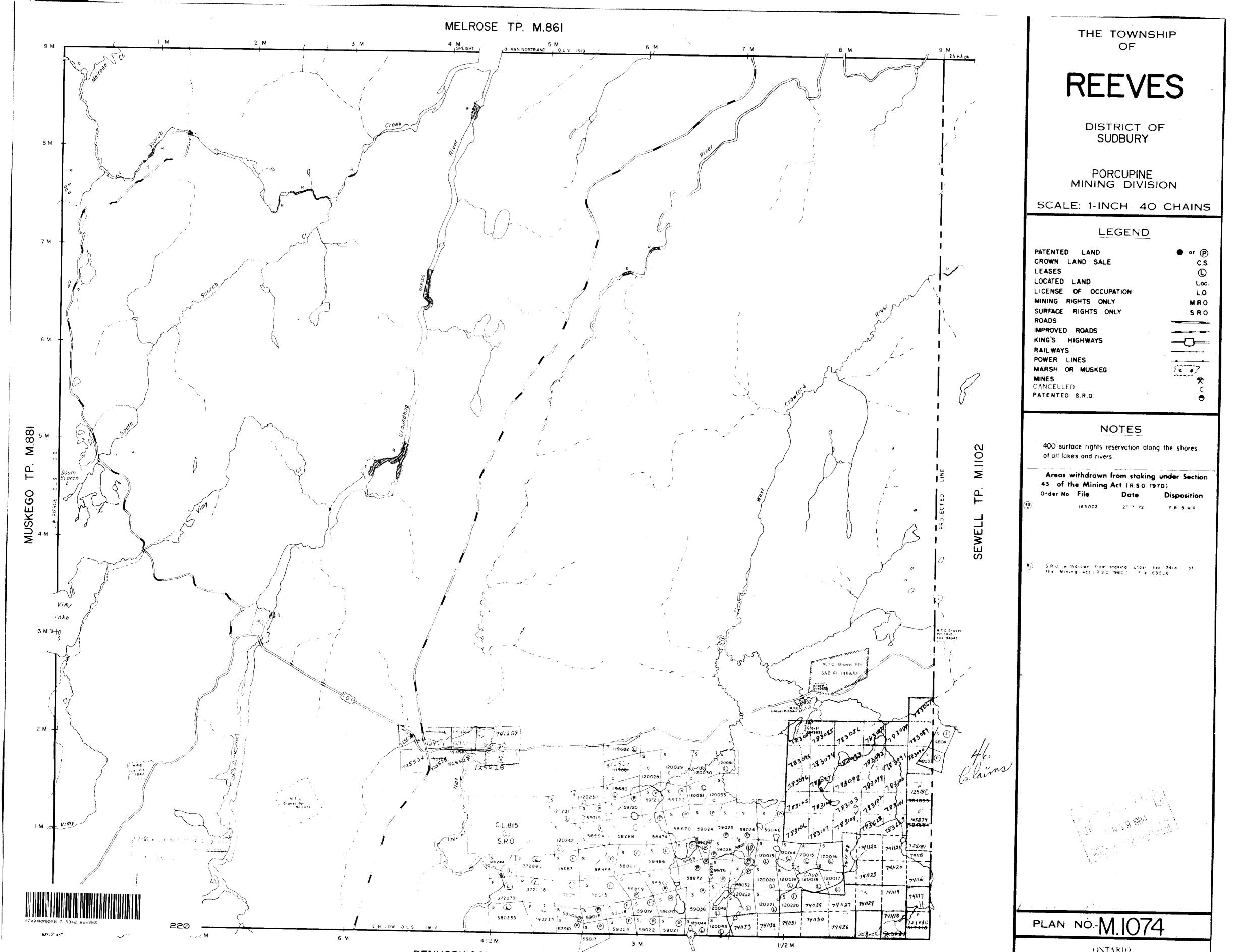
PLAN NO. M. 967

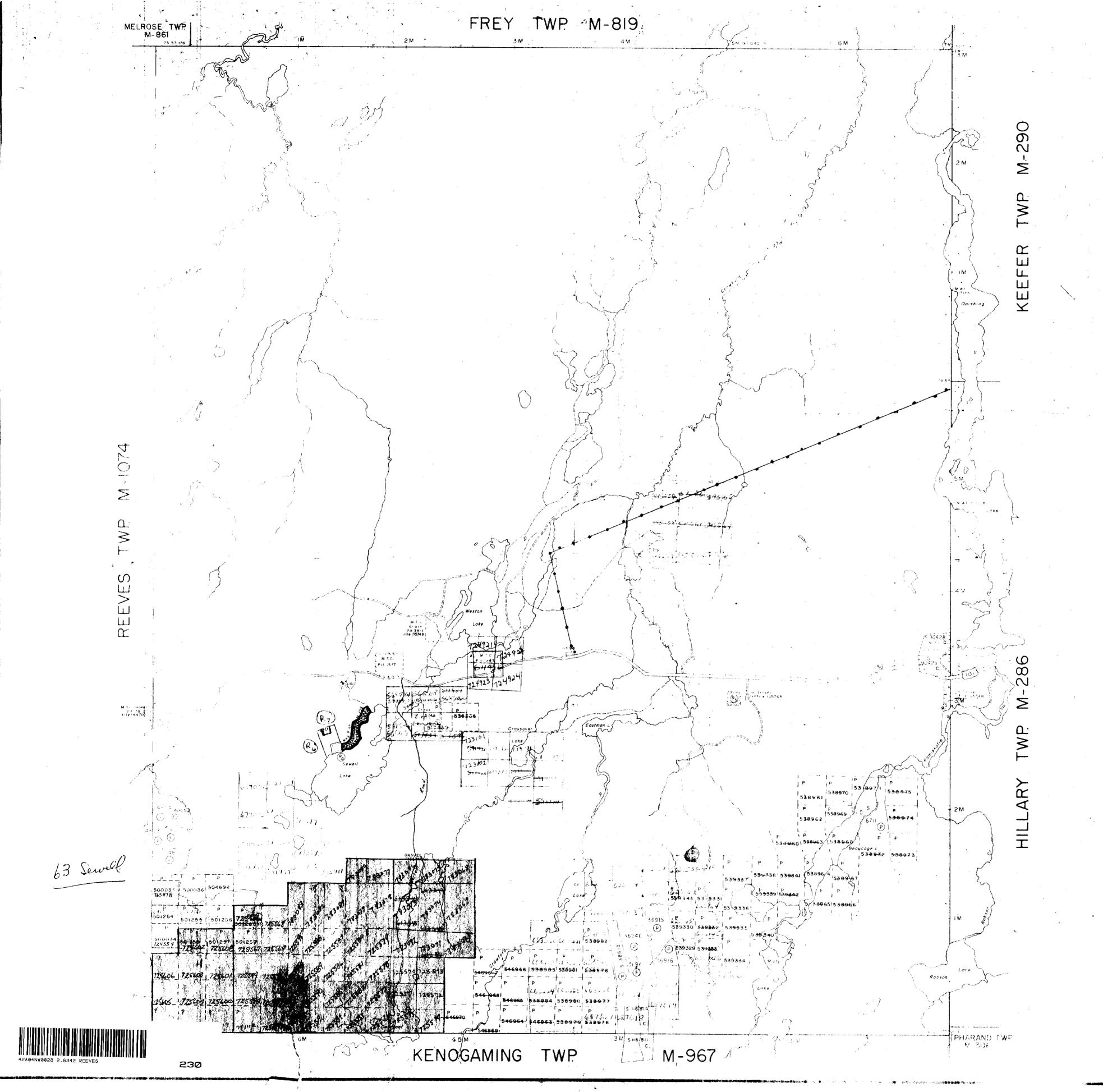
ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH







THE TOWNSHIP

SEWELL

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

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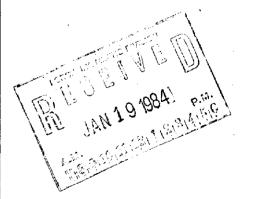
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Areas withdrawn from staking under Section
43 of the Mining Act (R.S.O. 1970)
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_ site preparation M.N.R. May 2,1983

(Ro) Dump Attennation Zone
(Ro) Withdrawn From Staking
W. 46/83 83/8/14
Surface: Mining Rights

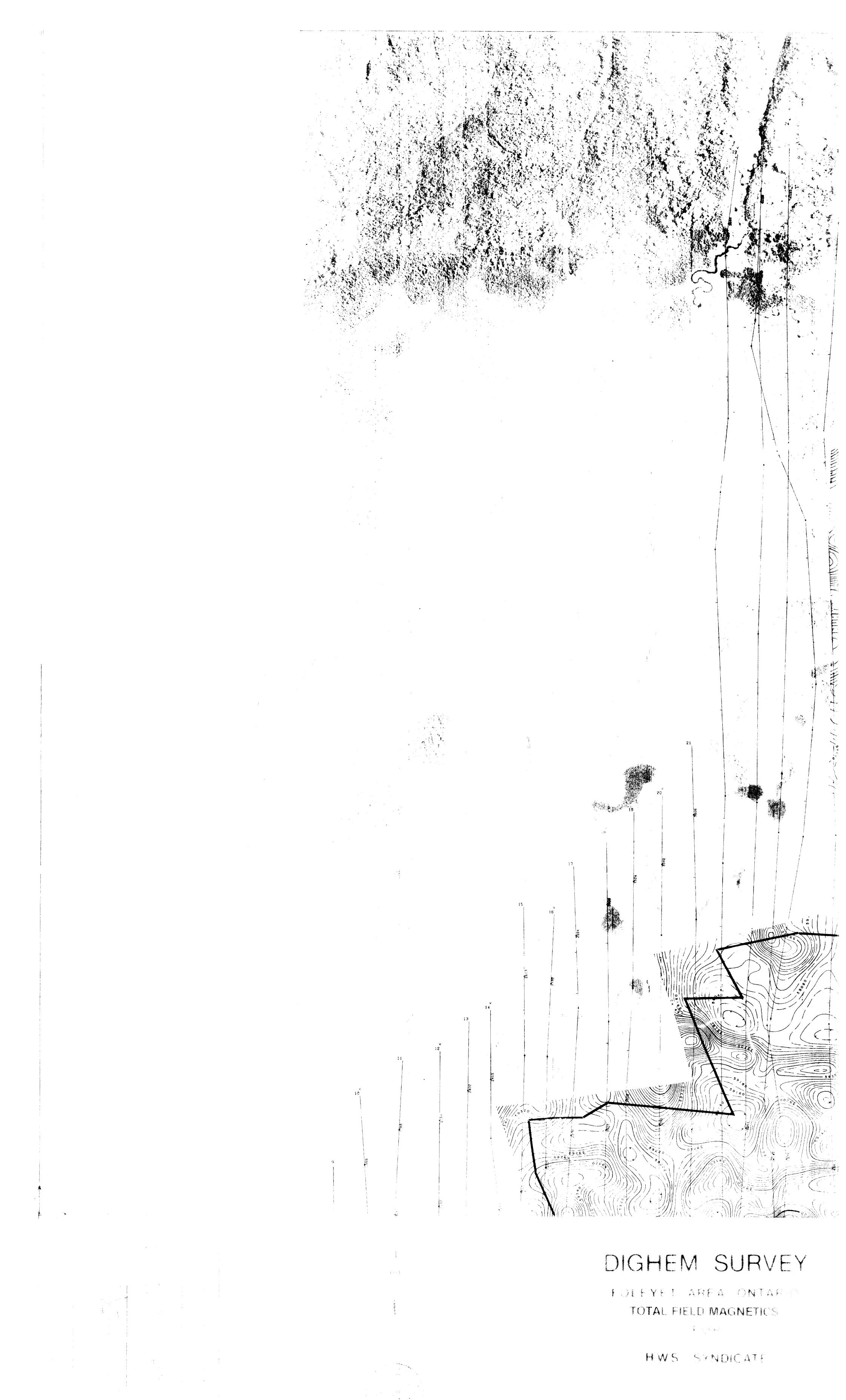


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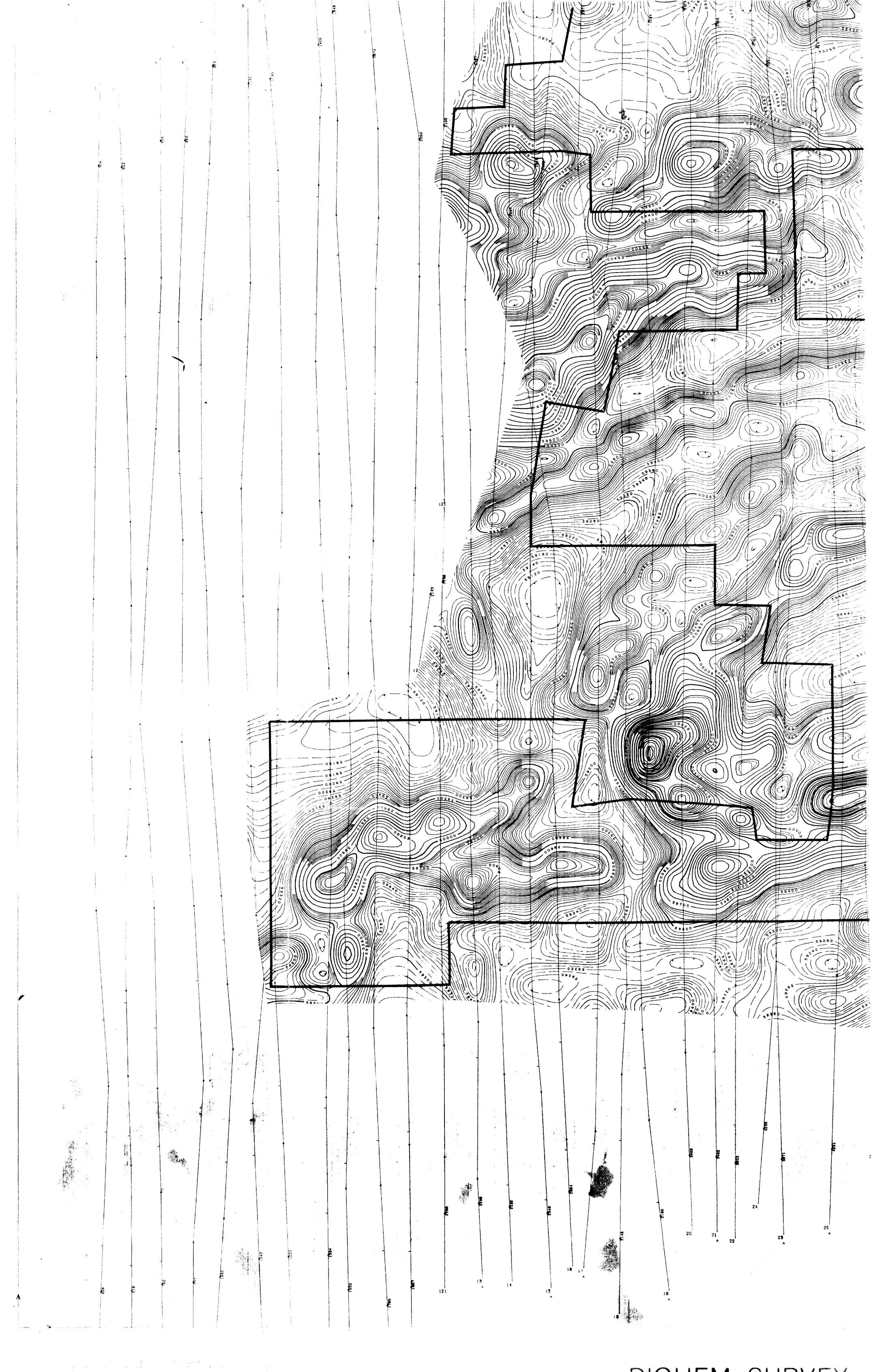
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MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH



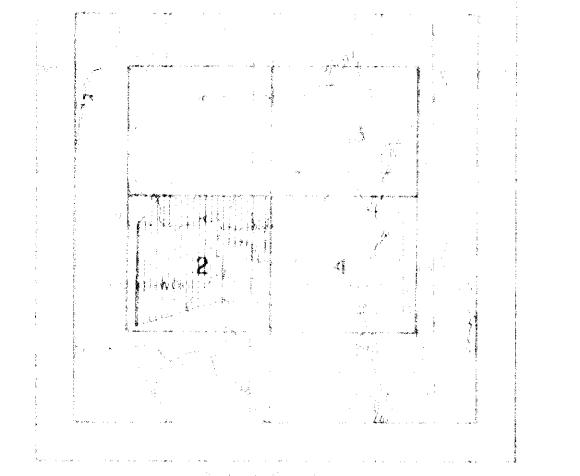
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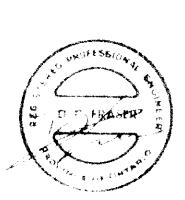


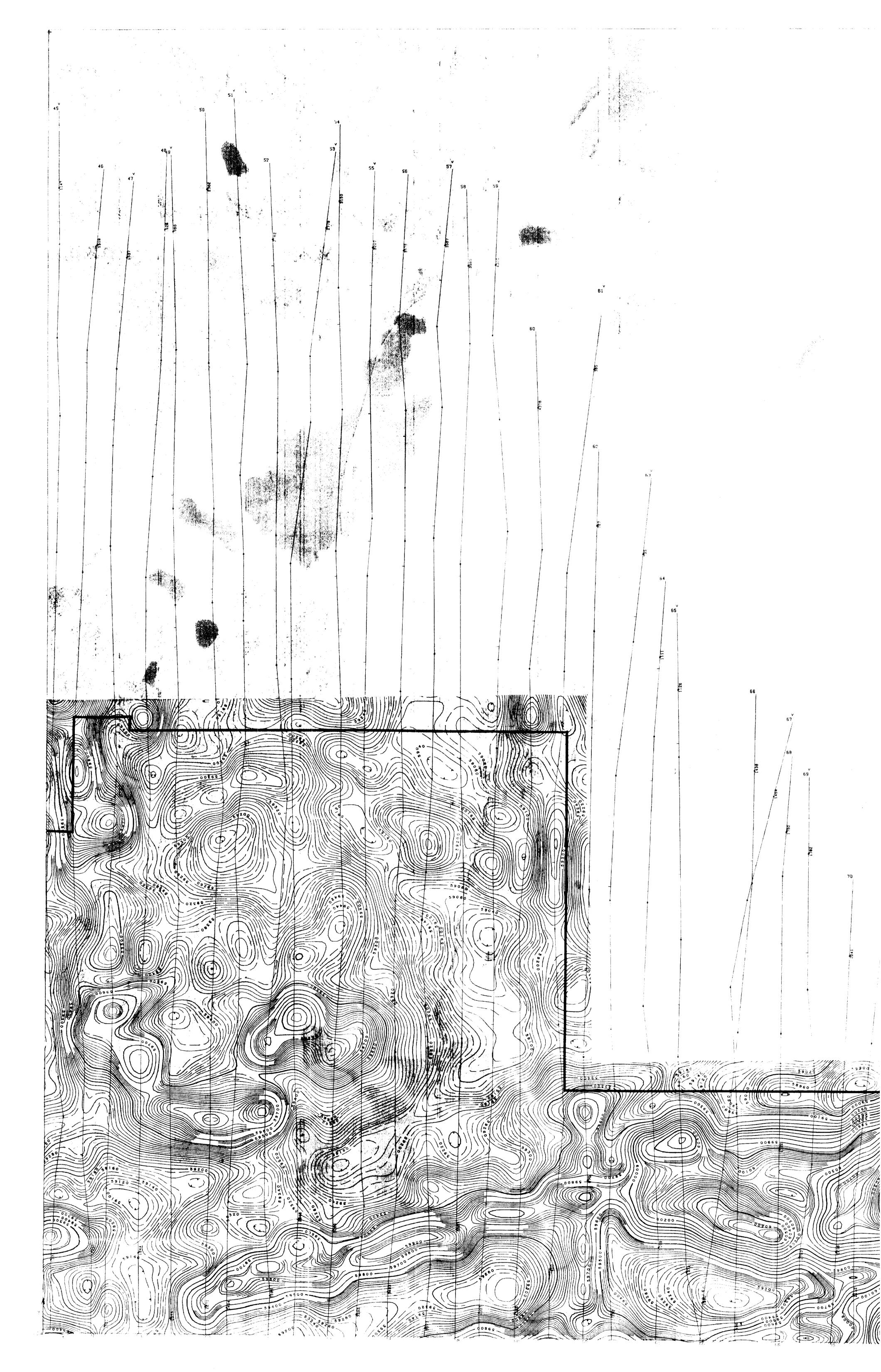
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TOTAL FIELD MAGNETICS
FOR

H.W.S SYNDICATE

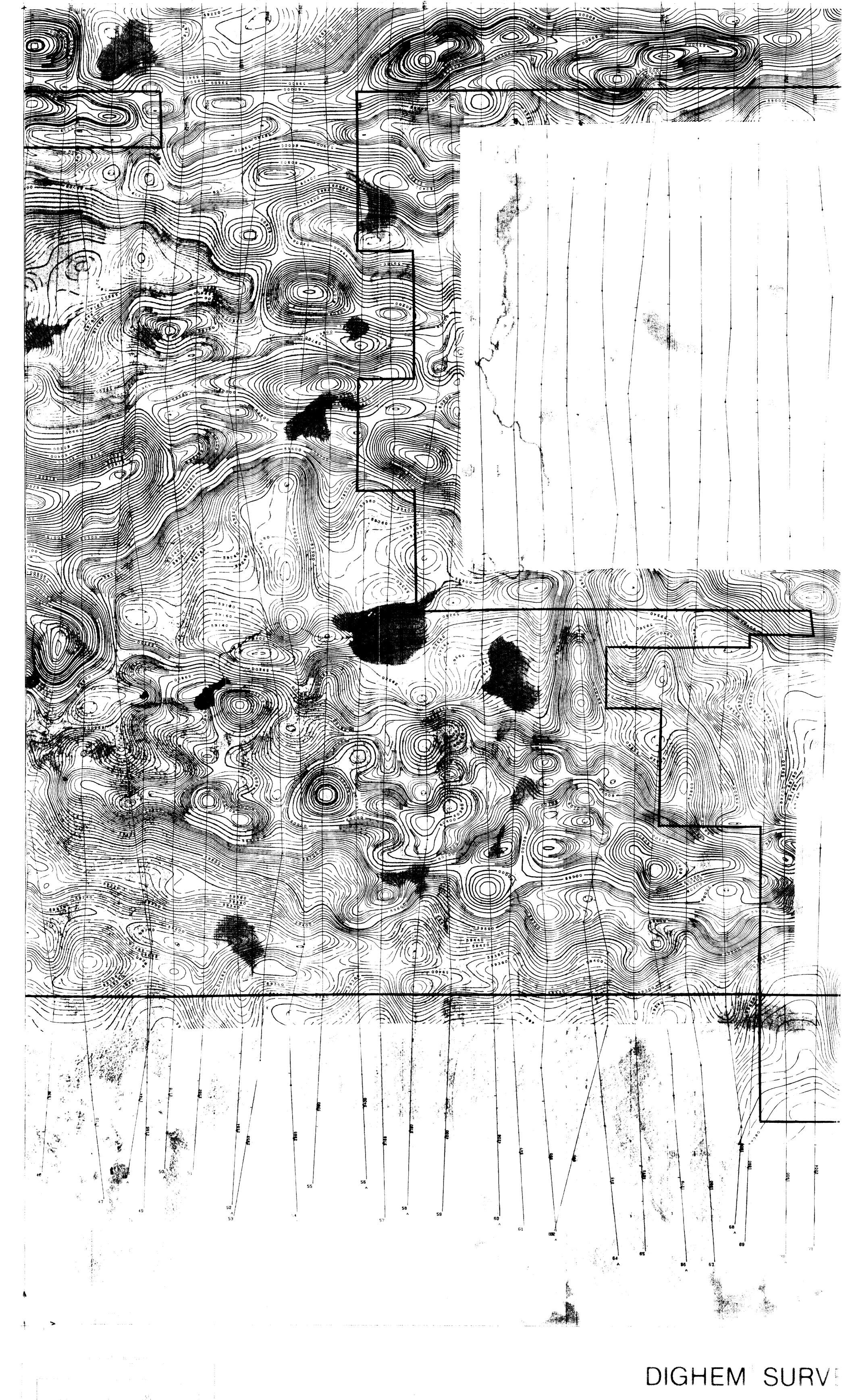






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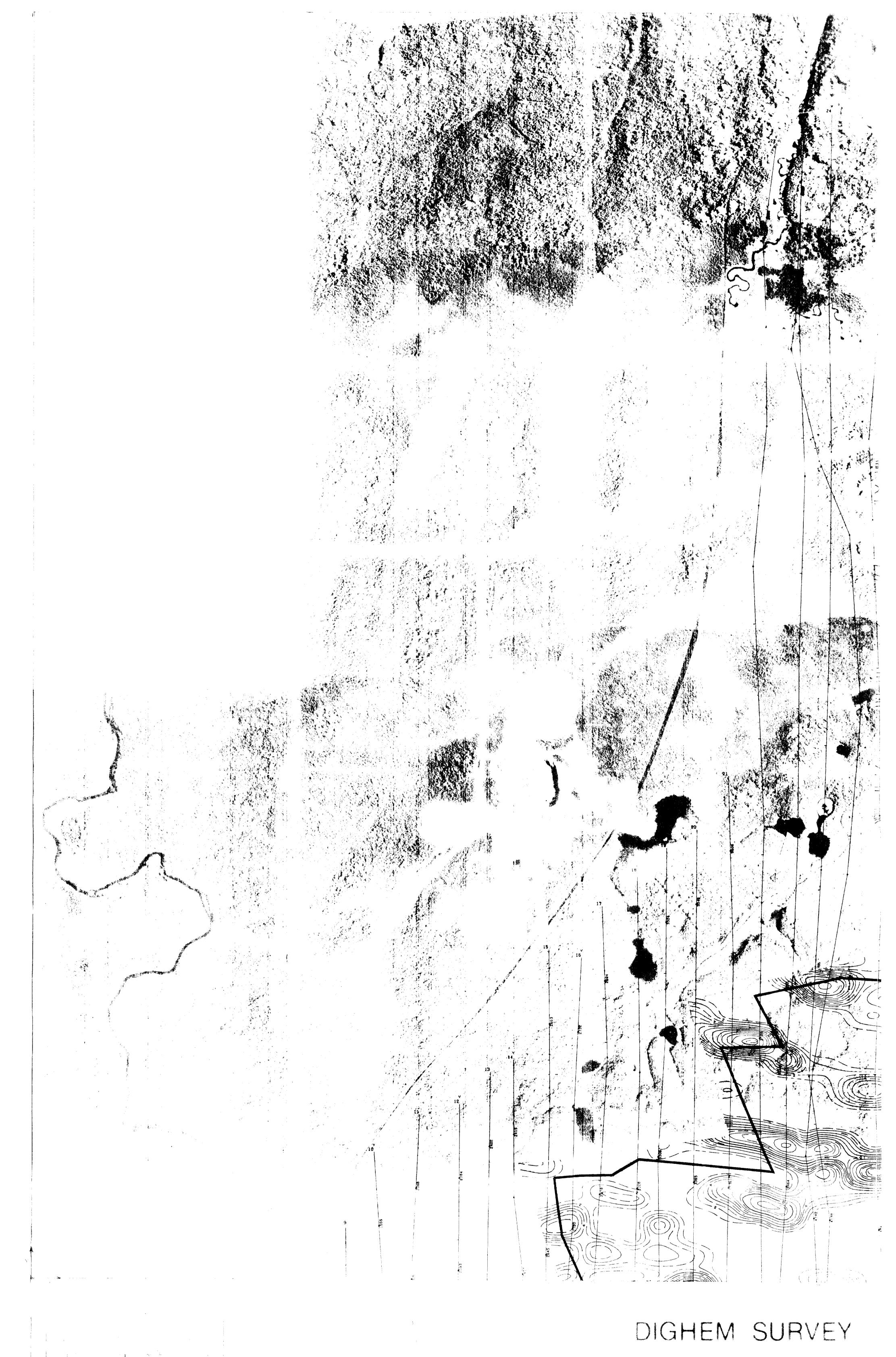


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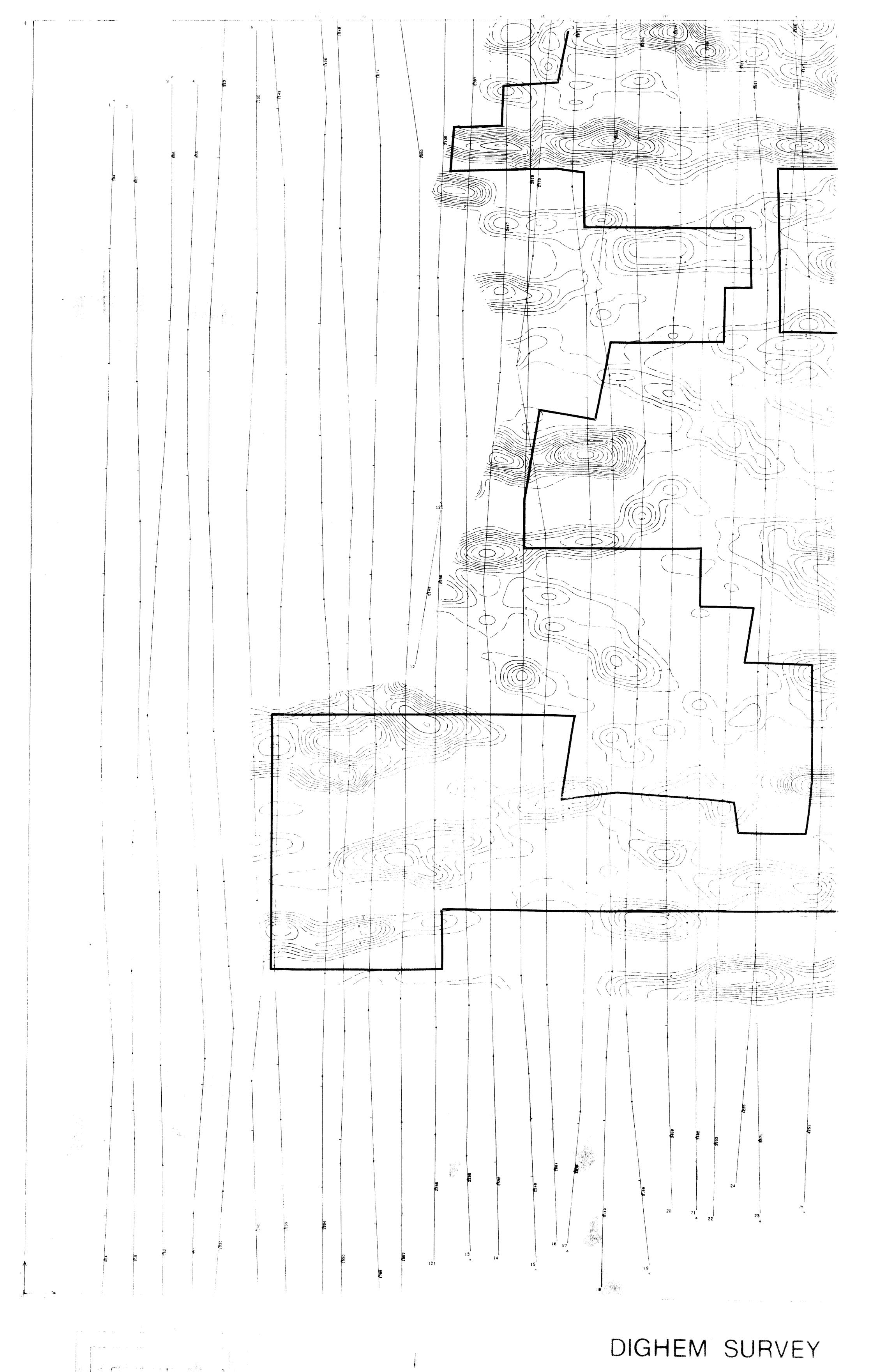
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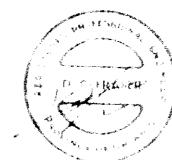
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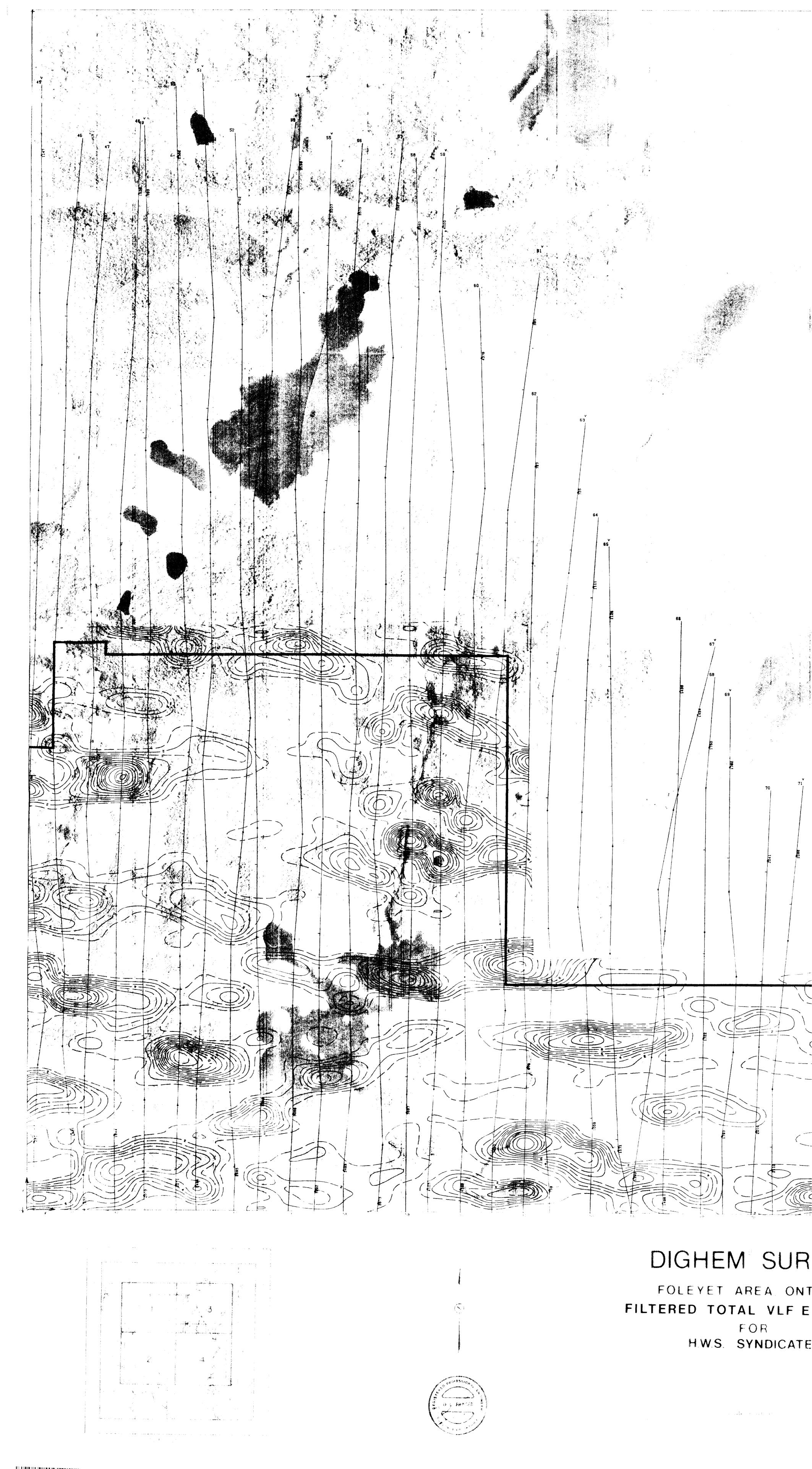
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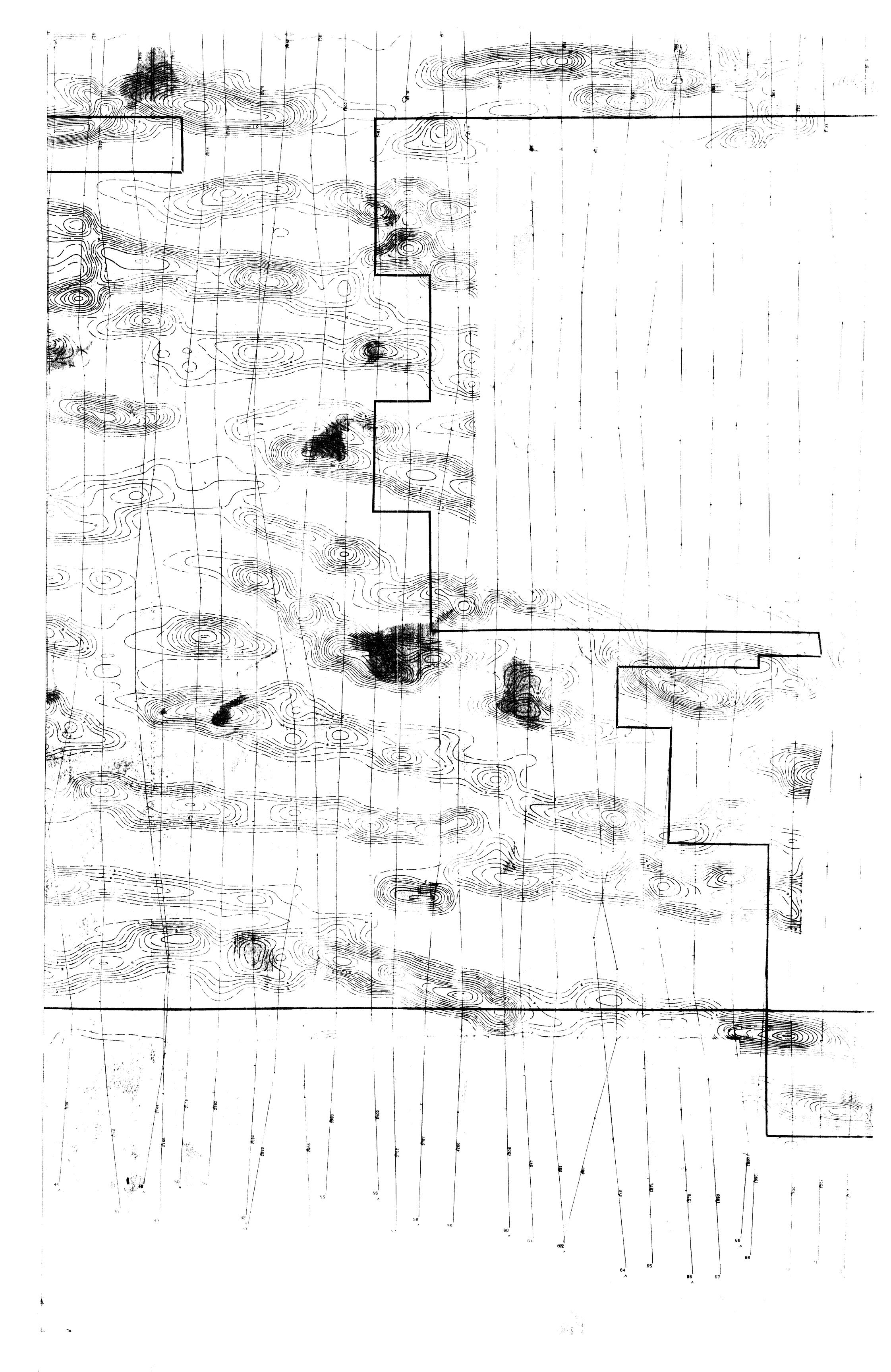
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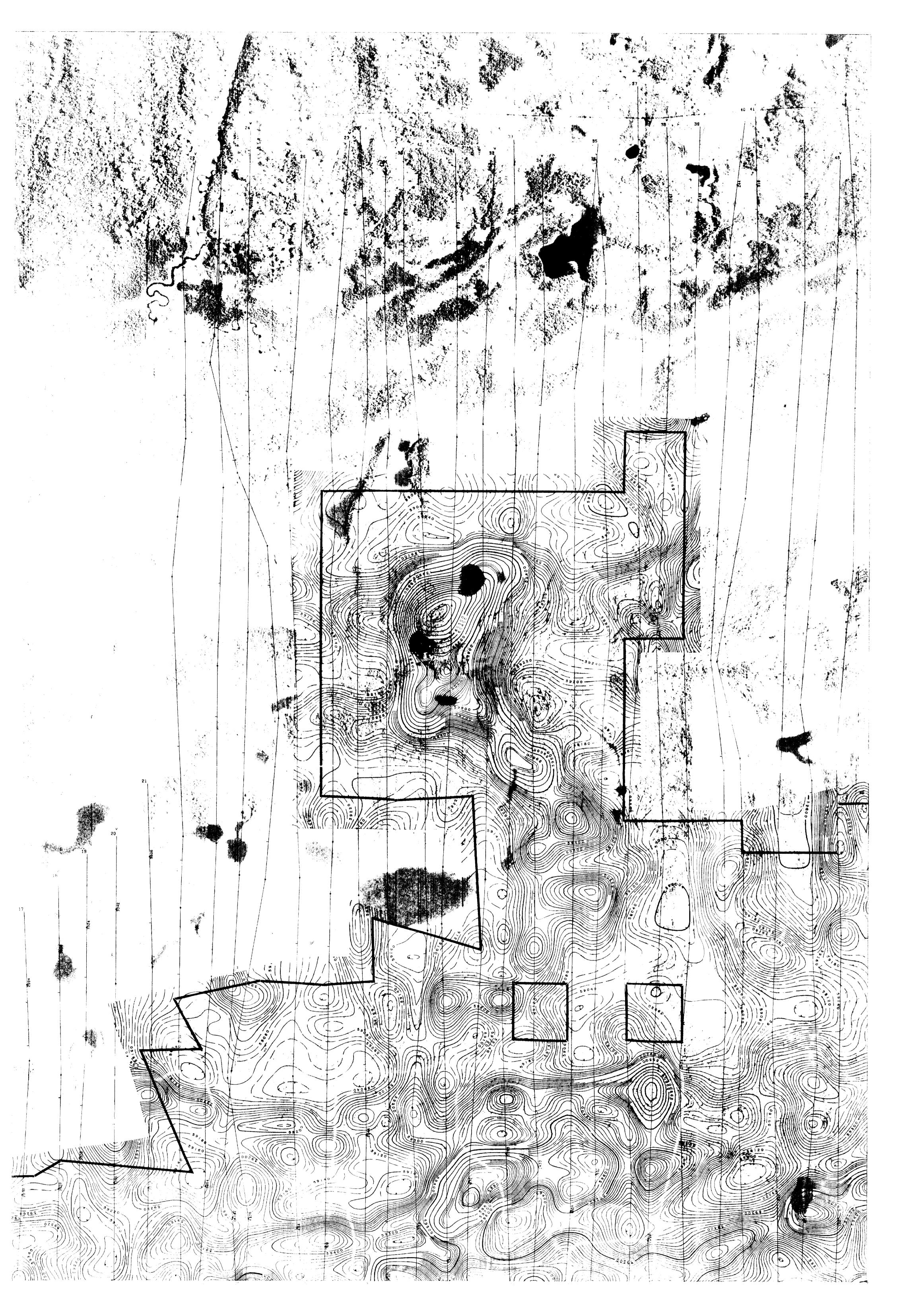
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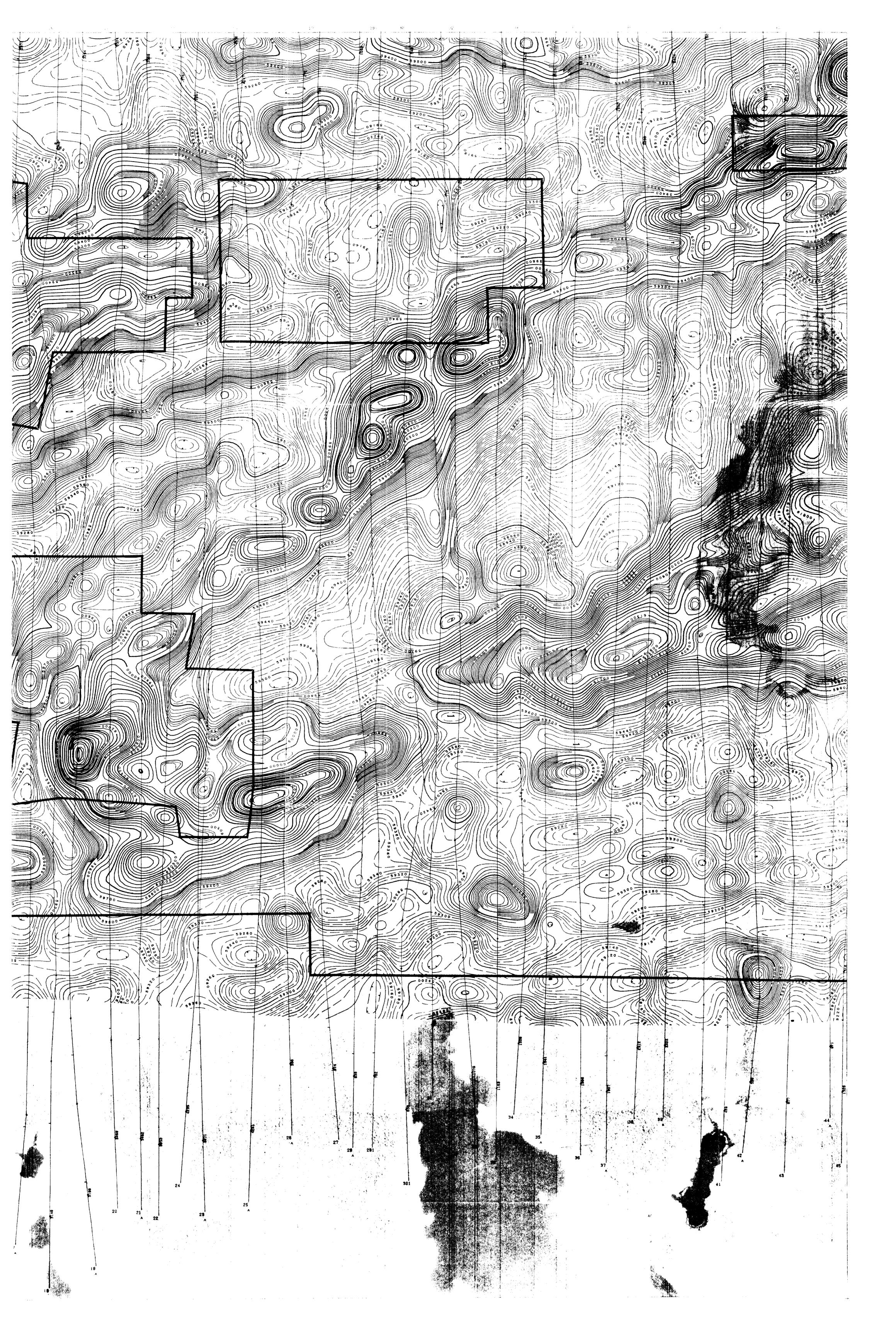
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TOTAL FIELD MAGNETICS

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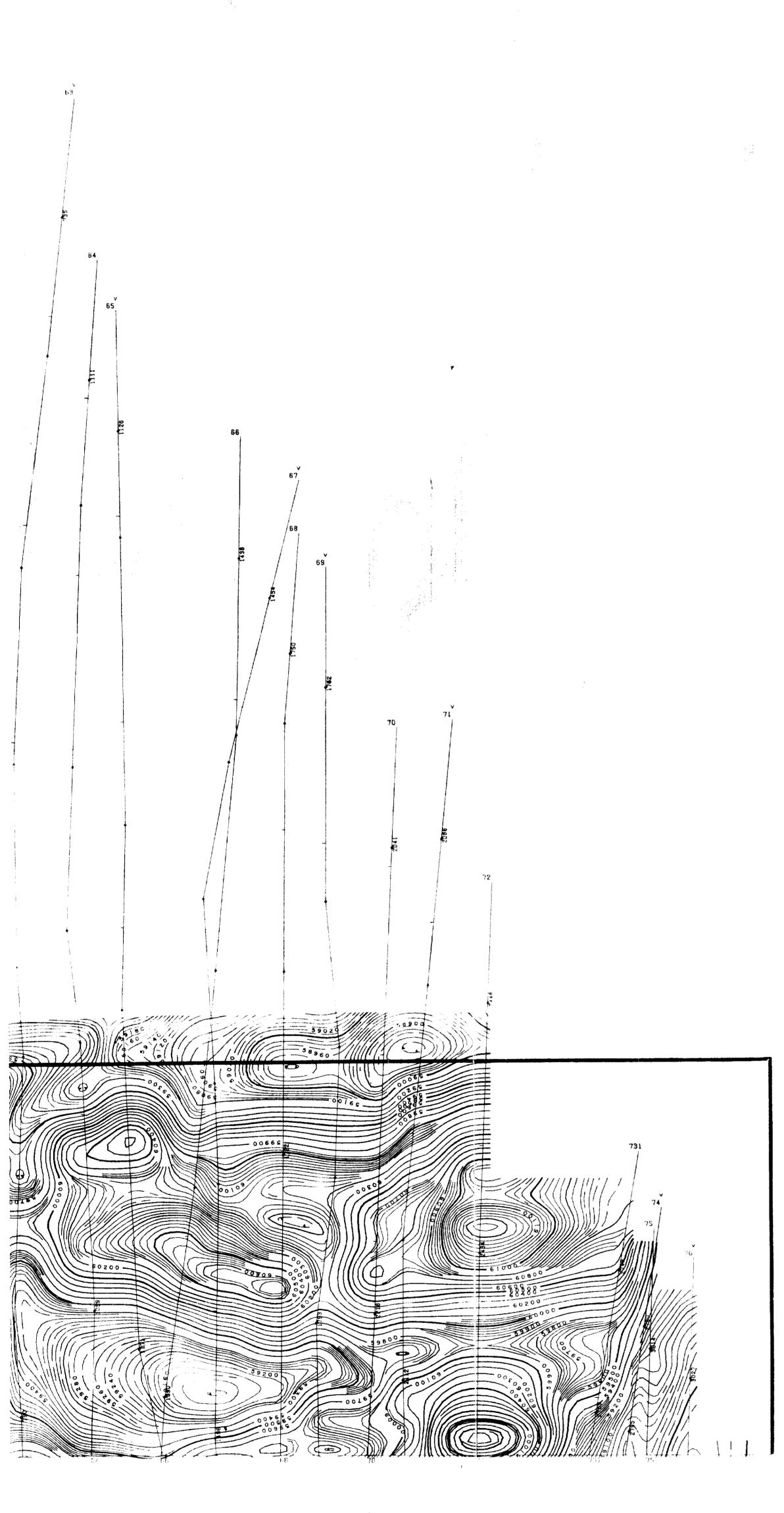
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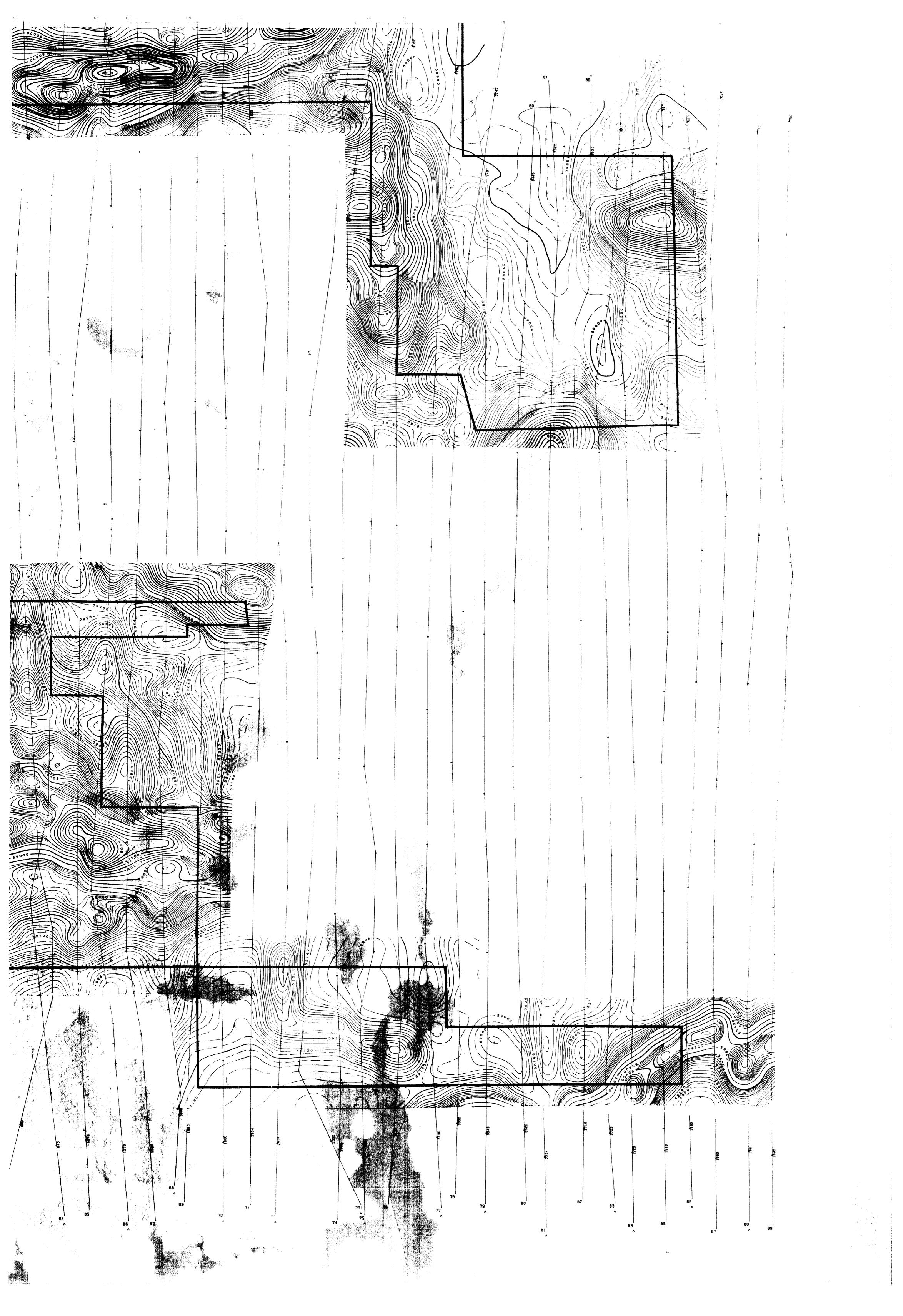
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DIGHEM SURVEY

FOLEYET AREA ONTARIO
TOTAL FIELD MAGNETICS
FOR
HWS SYNDICATE

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DIGHEM SURVEY

FOLEYET AREA, ONTABIO
TOTAL FIELD MAGNETICS
FOR
H.W.S. SYNDICATE

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DIGHEM SURVEY

FOLEYET AREA, ONTARIO

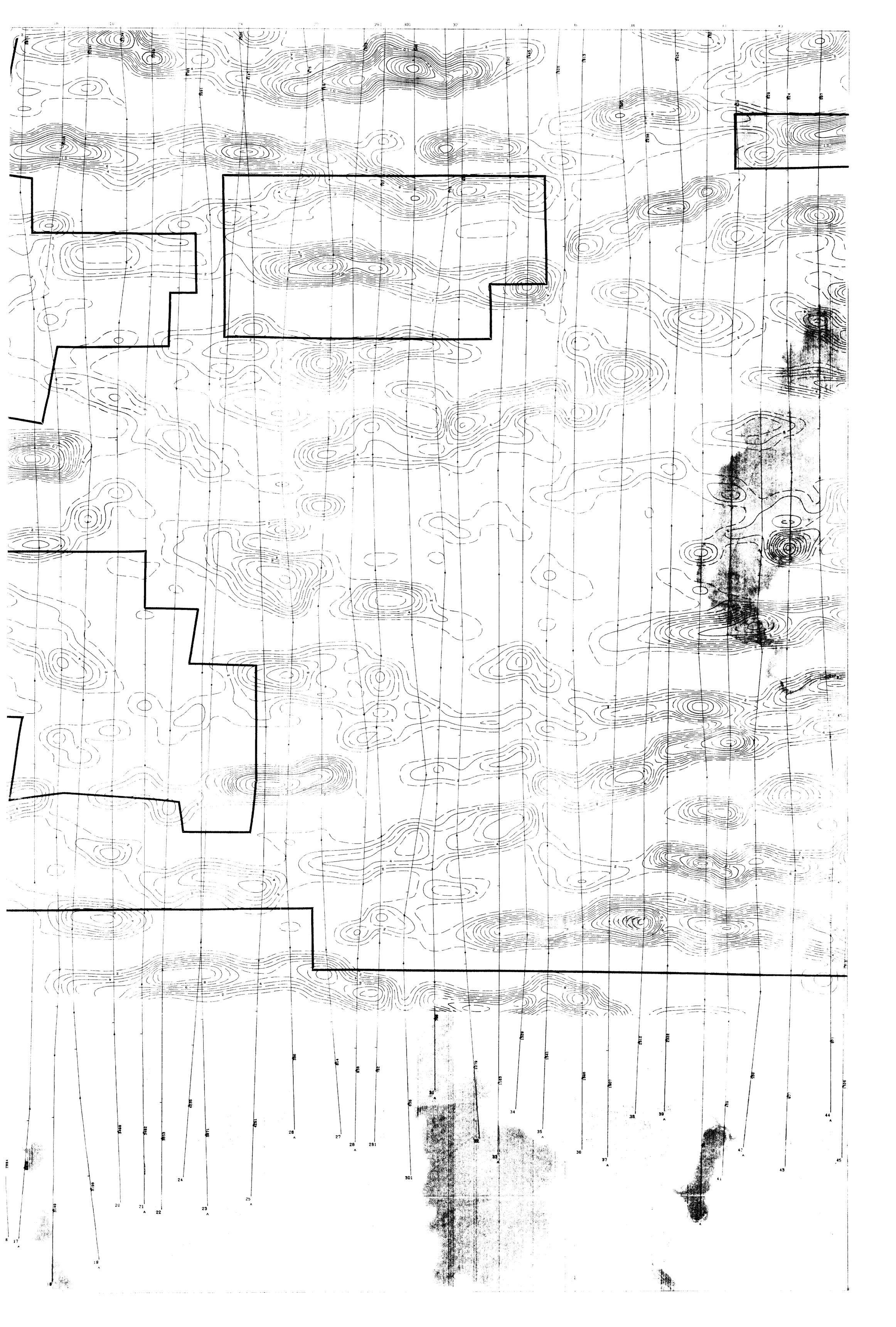
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FOLEYET AREA ONTARIO

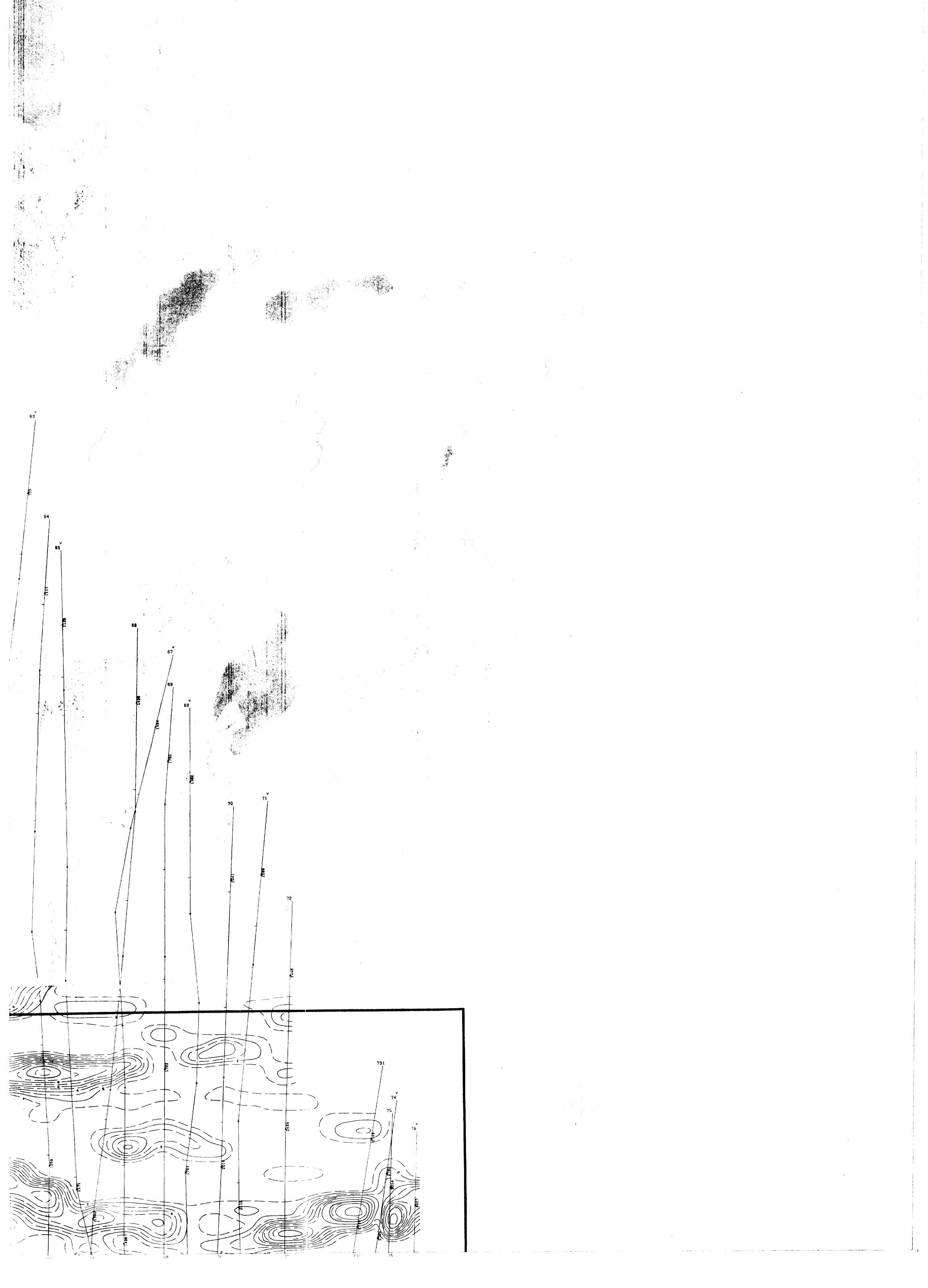
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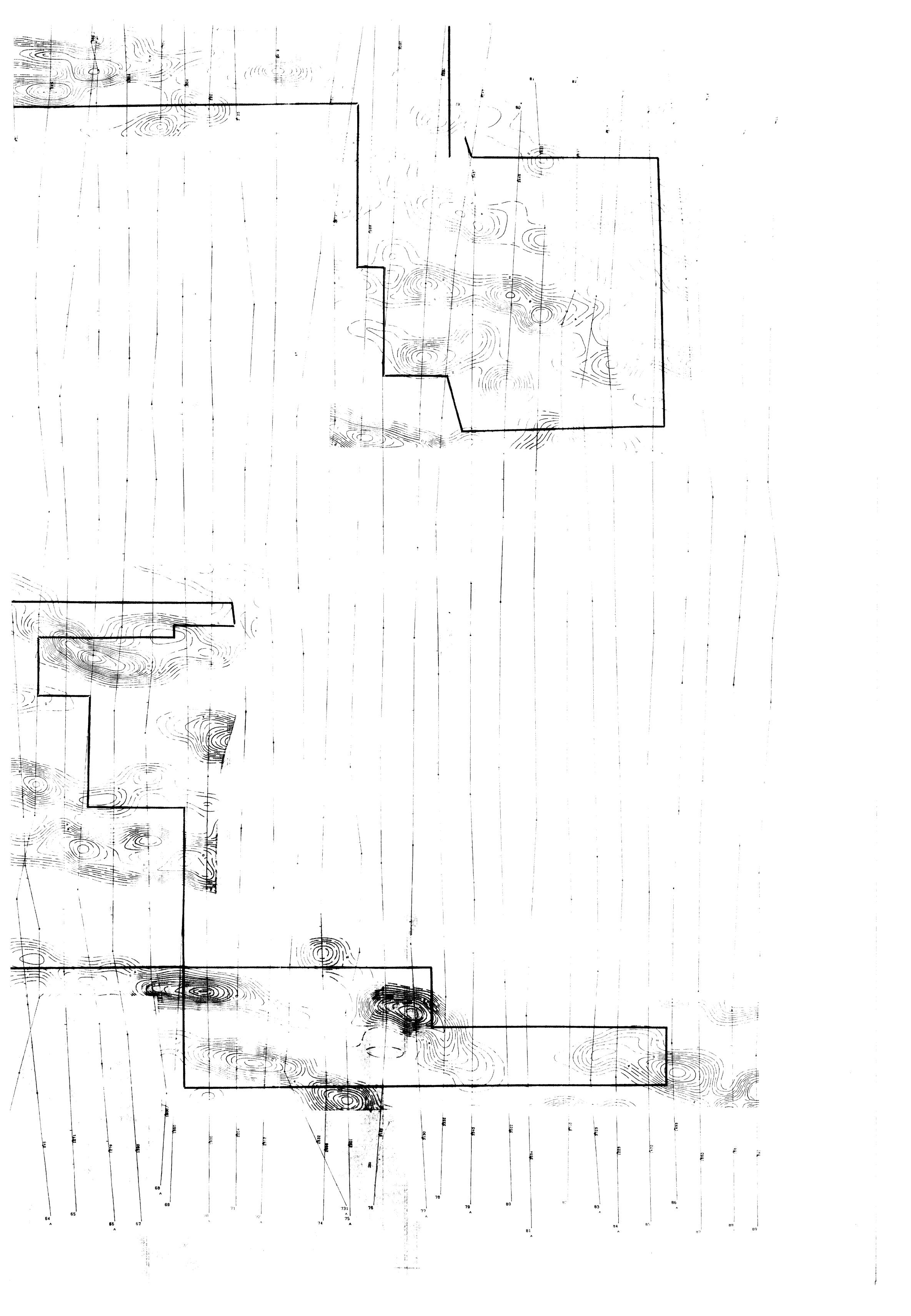
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FILTERED TOTAL VLF EM FELD

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ALCOHOLOGICAL CONTRACTOR