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COMSTATE RESOURCES

MAGNETIC

AND

ELECTROMAGNETIC

SURVEY

RECEIVED MAY 22 1984 MINING LANDS SECTION

SOUTH DELORO TOWNSHIP

PROPERTY

PORCUPINE MINING DIVISION 516 819110111

D. R. Pyke, Ph.D.

MAY, 1984

COMSTATE RESOURCES

MAGNETIC AND ELECTROMAGNETIC SURVEY

SOUTH DELORO TOWNSHIP PROPERTY

Introduction

The property consists of 57 contiguous claims in the south to southeast portion of Deloro Township (Figure 1); four of the claims extend into Adams Township. The property, 8 miles south of the Timmins City centre, is within the District of Cochrane, Porcupine Mining Division, and comprises the appended list of claims.

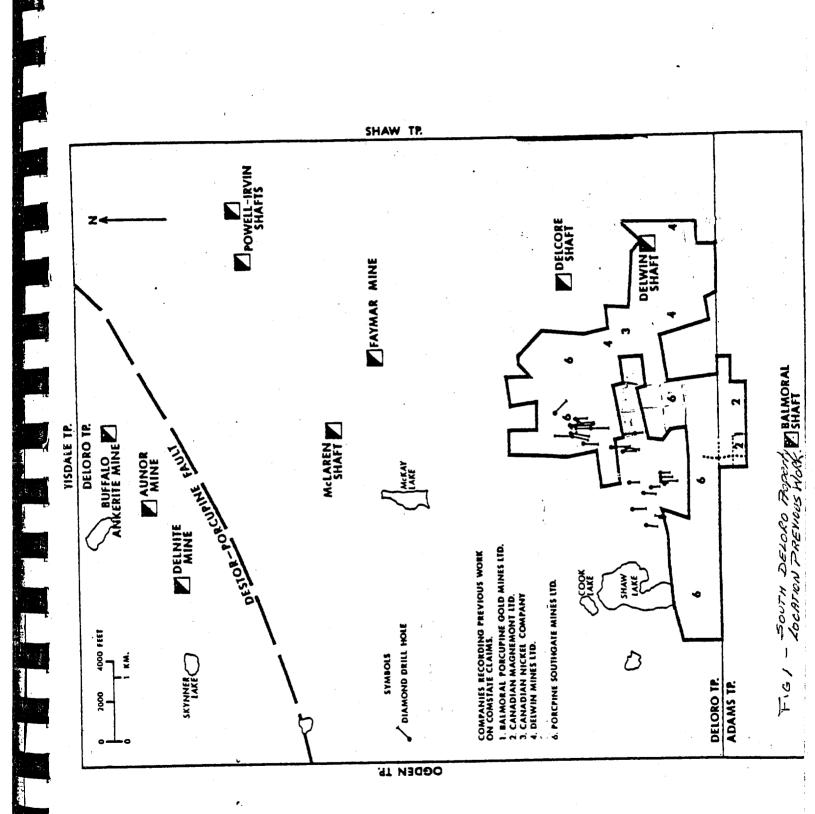
Location and Access

The claims occupy much of the southeast portion of Deloro Township. The eastern part of the property is best reached by a bush road extending south from the Buffalo Ankerite Mine, a distance of about 8 miles. The western portion of the claim group is most accessible by logging roads extending east from Pine Street South, near the west boundary of Deloro Township.

Previous Work

Deloro Township was first mapped by Burrows (1911, 1915, 1924) and later by Hurst (1939) and Carlson (1967). Adams Township was mapped by Harding and Berry (1938) and Pyke (1975b). Previous work on the property and area is illustrated in Figure 1.

The Deloro-Wright Syndicate, and subsequently Delwin Mines Limited, a Company formed in 1937, formerly held 15 claims near



the southeast corner of Deloro Township. In 1936, a shaft was sunk on the property to a depth of 135 feet (Ferguson et al, 1971). A level was cut at 125 feet and a cross-cut driven 55 feet south. Seven drill holes were put down on the shaft zone, and two test pits to a depth of 12 feet were excavated in the vicinity of the shaft. Considerable rock trenching was reportedly done on two other gold bearing zones on the property. Visible gold was reported on the property in the outcrop area located one-half mile northwest of the shaft, however, the best quoted assays from the property are 0.16 ounces of gold per ton (no widths indicated) and 0.09 ounces of gold per ton over four feet.

In 1969, Canadian Nickel Company Limited conducted a magnetic and electromagnetic survey over four claims in the northwest corner of the claims formerly held by Delwin Mines (File 63-2594). A number of weak conductors were detected. One diamond drill hole was sunk for 613 feet and intersected serpentinite, gabbro and diabase; no assays are given.

Porcupine Southgate Mines Limited (File T-108) formerly held a group of 47 claims, extending west and northwest from the Delwin property. In 1944-45, Porcupine Southgate geologically mapped the property at a scale of one inch to 500 feet, and drilled 29 diamond drill holes totalling 26,603 feet (Carlson, 1967), of which about half was drilled on claims currently held by Comstate Resources. The drilling, on what is now Comstate ground, was confined to four claims in the northwest portion of the property, and most was done within an area of two claims.

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The property was considered a gold prospect; the best recorded assay on Comstate ground was 0.34 ounces of gold per ton over 2.5 feet. Numerous values of 0.05 to 0.08 ounces of gold per ton over 5 foot widths are reported.

In 1964, much of the Porcupine Southgate property was acquired by Canadian Magnesite Mines Limited. A magnesite deposit on the property, not within the confines of Comstate claims, was subjected to rigorous analyses (Griffis, 1972), but proved to be sub-economic.

In 1946, Balmoral Porcupine Gold Mines Limited (File T-143) drilled one diamond drill hole on the Adams-Deloro Township boundary, on what is now part of the Comstate claim group; no assays are given.

In 1971-72, Canadian Magnemont Limited conducted a magnetic (Sharpe MF-1 Fluxgate) survey and electromagnetic (EM-16) survey over a portion of the claims currently held by Comstate in Adams Township. One VLF anomaly was detected on Comstate property and interpreted to be caused by a shear zone or conductive overburden. No follow-up work was undertaken.

In 1980, Amax Minerals Exploration Ltd. conducted an airborne magnetic survey of Deloro Township, and many of the surrounding townships (File 2-3367).

In 1981, Comstate Resources Ltd. conducted a humus survey on six claims in the vicinity of the former Delwin Shaft area. Two anomalous east-west trending zones, with gold values ranging from 20 to 76 ppb, were outlined over a strike length of 3800 feet.

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In 1981-82, approximately 1000 feet of portable percussion overburden drilling was done by Comstate Resources south of the Delwin Shaft area. Of the basal sediment samples collected and analyzed for gold and arsenic, none returned anomalous values.

In 1983, Questor Surveys Ltd. flew a combined airborne magnetic and INPUT survey for Comstate Resources over much of south Deloro Township and part of north Adams Township.

General Geology

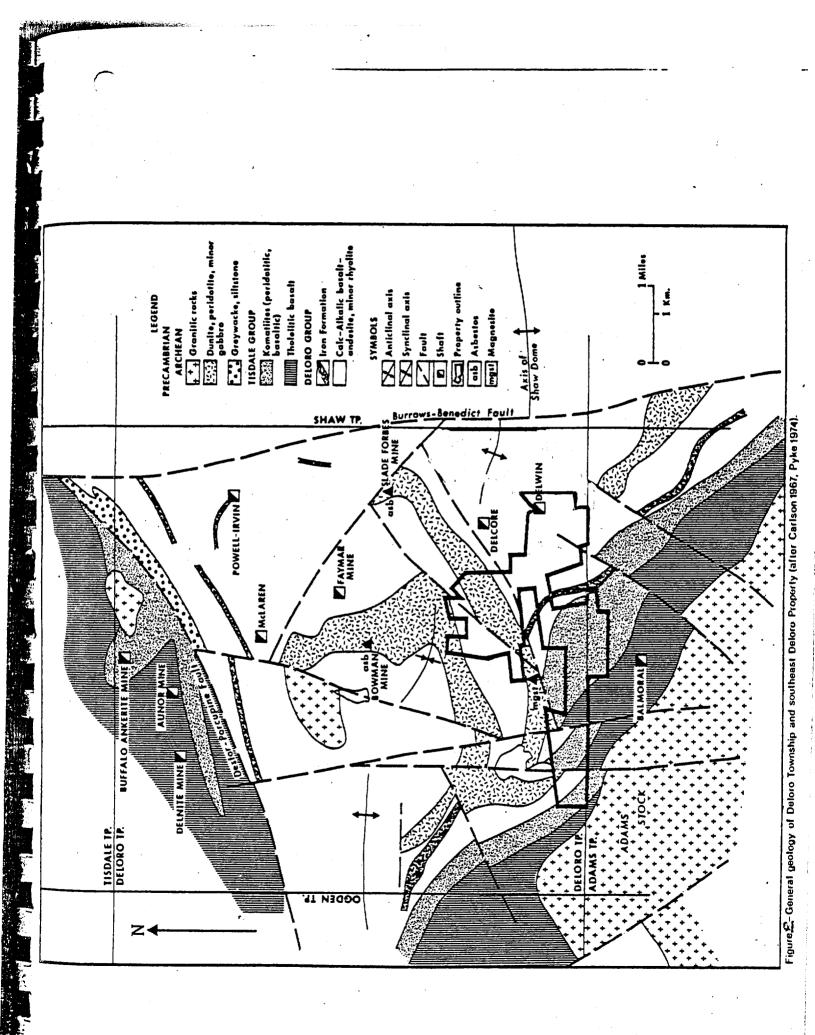
The claims are near the southwest margin of the Shaw Dome, and straddle the contact between the Deloro and Tisdale Group volcanic rocks (Figure 2). The contact has not been mapped in detail, but would appear to be transitional in nature, in that it represents an intercalation of calc-alkaline volcanic rocks of the Deloro Group, with overlying komatiitic volcanic rocks at the base of the Tisdale Group. Large sill-like intrusions of dunite-peridotite with minor associated gabbro underlie much of the central portion of the township.

Pervasive carbonatization and chloritization are particularly common in the south part of the township.

Property Geology

The property straddles the contact between the Deloro and Tisdale Group volcanic rocks (Figure 2). Serpentinized and carbonatized komatiitic volcanic rocks of the Tisdale Group largely underlie the southeast part of the property in proximity to the Deloro-Adams township boundary. Outcrop in this particular

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area is sparse, and exploration work along the general contact zone has been minor - mapping by Porcupine Southgate and one drill hole by Balmoral Mines. The remainder of the property is largely underlain by variably chloritized and carbonatized calcalkaline basalt-andesite of the Deloro Group. A large sill of serpentinized dunite-peridotite extends across the northwestern portion of the claim group. The southwestern part of this sill is extensively altered to magnesite and talc.

Magnetic Survey

Most of the present survey was done during the period September 8th - September 17th, 1983, by Wollex Exploration for Comstate Resources. Minor fill-in lines were completed by Exsics Exploration during the period March 11th - March 20th, 1984.

North trending picket lines were cut at 400 foot intervals over most of the property; 200 foot picket lines were established on the east part of the property in the vicinity of the Delwin Shaft area. A base line was established along the Deloro-Adams Township boundary and east-west tie-lines were cut at approximately 32N, 58N and 86N. A total of 49.3 miles of line were cut.

Magnetic readings were taken with a Geometrics portable proton magnetometer, model G-816. The instrument measures the total field directly in gammas (see attached specifications). Readings were taken every 50 feet along the picket lines. For the fill-in magnetics, completed by Exsics Exploration, an EDA PPM-350 proton magnetometer was used. (see attached specifications)

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For the purpose of diurnal correction, a base station was established at 16W, 2N. Readings were taken at 30 second intervals, corresponding to times at which readings were taken on the grid. The base station value was 59966 gammas.

Results of Magnetic Survey

Magnetic relief on the property is approximately 5000 gammas, the maximum relief being in the north half of Map 1A.

Virtually all the areas of high magnetic relief are interpreted to be underlain by ultramafic intrusive rocks as outlined by Carlson (1967). This would include most of Map 1A, with the exception of the wedge-shaped SW trending area of lower magnetic susceptibilities which are fault bounded to the southeast. Some of the small areas of magnetic lows within the highs may indicate areas of alteration (eg. - carbonatization). The extreme west margin of Map 1B and portions of the northwest part of Map 1C are also considered to be in a large part underlain by ultramafic intrusive rocks. Nevertheless, some iron formation is also known to occur in the northeast part of Map 1C on claims P628512 and P628513. In addition, mapping by Comstate Resources indicates an area of carbonatized ultramafic intrusive rocks in the north part of claims P651358 and P651365.

The magnetic data suggests an overall west to WNW strike of the bedrock.

Elsewhere on the property, mafic volcanic rocks predominate, and minor ultramafic flows are known to outcrop in the SE portion of Map IC, near the Adams-Deloro Township boundary.

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Two major faults are interpreted; a NE trending fault on Map 1A and a NW trending fault on Map 1C.

Electromagnetic Survey

The VLF electromagnetic survey was conducted by Wollex Explorations for Maps 2A, 2B and parts of 2C, during the period September 8th - September 17, 1983. Minor fill-in lines were completed by Exsics Exploration on Map 2A; in addition, most of the VLF on Map 2C (in the 200 foot grid area) was conducted by Exsics, the remainder by Wollex.

Two instruments were used for the survey; an EM-16 and a Radem. Specifications for both instruments are attached. The transmitter station for the survey was Cutler Maine, which uses a frequency of 17.8 kH_z with a radiated power of 1000 KW. Wollex Exploration utilized the EM-16 and measured both the vertical in-phase component and the vertical out-of-phase component (quadrature). Exsics used the Crone Radem unit and measured the dip angle.

With either instrument, it is possible to outline poor conductors such as sheared contacts, breccia zones, alteration zones, faults, in addition to good sulphide conductors.

Electromagnetic readings were taken at 50 foot intervals, with the exception of part of the area on Map 2C, where the readings on some of the 200 foot grid were spaced at 100 foot intervals. A total of 4891 readings were taken.

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Results of VLF Survey

The VLF data are given on Maps 2A, B, C (profile) and 3A, B, C (Frazer filter).

All the profile cross-overs are not indicated as the Frazer filter is considered to effectively delineate the axis of all main conductors.

The main conductors are largely confined to Maps 2C - 3C, and trend in an easterly direction.

Some of the conductors are roughly coincident with high gold values obtained from previous geochemical (humus) analyses (Assessment Files), and may therefore reflect true bedrock structures or stratigraphy.

Recommendations

It is recommended that detailed mapping and sampling of the property be completed, and that the results be critically examined in combination with the geophysical surveys to determine the course of further exploration expenditures.

REFERENCES

Burrows, A. G.

- 1911: The Porcupine Gold Area; Ontario Bureau of Mines, Vol. 20, pt. 2.
- 1915: The Porcupine Gold Area, Second Report; Ontario Bureau of Mines, Vol. 21, pt. 1, p. 205-249.
- 1924: The Porcupine Gold Area, Fourth Report, Ontario Department of Mines, Vol. 33, pt. 2, 112 p..

Carlson, H. D.

1967: Geology of Odgen, Deloro and Shaw Townships; Ontario Department of Mines, Open File Report 5012, 117 p..

Harding, W. D. and Berry, L. G.

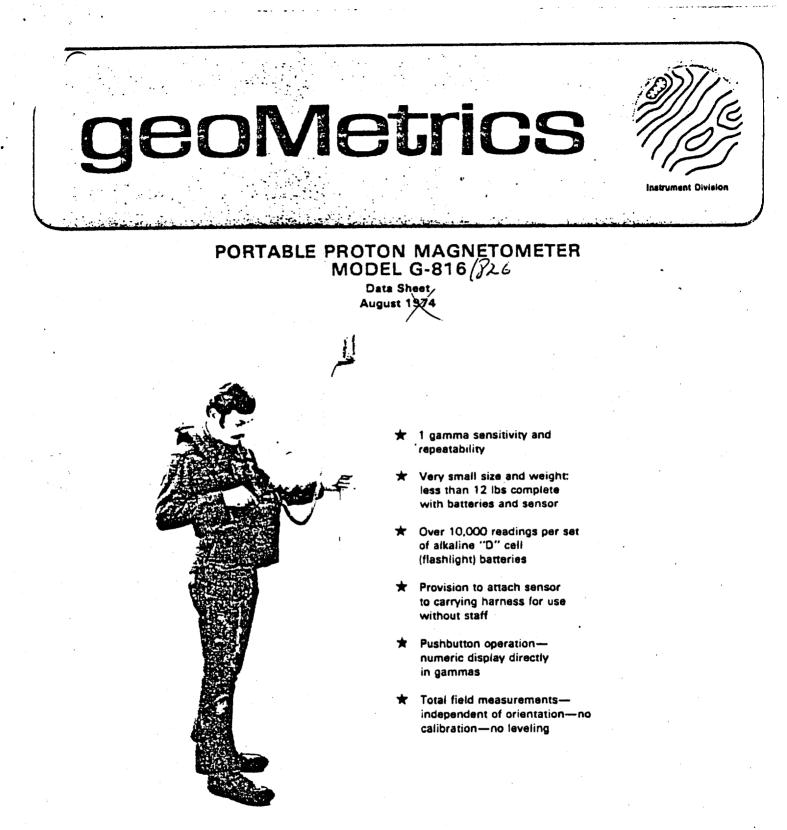
> 1938: Geology of the Keefer-Eldorado Area; Ontario Department of Mines, Vol. 47, pt. 4, p. 1-26.

Hurst, M. E.

1939: Porcupine Area, District of Cochrane; Ontario Department of Mines, Map 47a, Scale: 1 inch to 2000 feet.

Pyke, D. R.

1975: Geology of Adams and Eldorado Townships; Ontario Division of Mines, GR. 121, 51 p..



The Model G-816 is a complete portable magnetometer for all man-carry field applications. As an accurate yet simple to operate instrument, it features an outstanding combination of one gamma sensitivity and repeatability, compact size and weight, operation on standard universally available flashlight batteries, ruggedized packaging and very low price.

The G-816 magnetometer allows precise mapping of very small or large amplitude anomalies for ground geophysical surveys, or for detail follow-up to aeromagnetic reconnaissance surveys. It is a rugged, light-weight, and versatile instrument, equally well suited for field studies in geophysics, research programs or other magnetic mapping application where low cost, dependable operation and accurate measurements are required.

For marine, airborne or ground recording systems consider GeoMetrics Models G-801, G-803, and G-826.



"Hands-free" Back Pack Sensor

Based upon the principle of nuclear precession (proton) the G-816 offers absolute drift-free measurements of the total field directly in gammas. (The proton precession method is the officially recognized standard for measurement of the earth's magnetic field.) Operation is worldwide with one gamma sensitivity and repeatability maintained throughout the range. There is no temperature drift, no set-up or leveling required, and no adjustment for orientation, field polarity, or arbitrary reference levels. Operation is very simple with no prior training required. Only 6 seconds are required to obtain a measurement which is always correct to one gamma, regardless of operator experience. Only the Proton Magnetometer offers such repeatability-an important consideration even for 10 gamma survey resolution.



Complete Field Portable System The Model G-816 comes complete, ready for portable field operation and consists of: 1. Electronics console with internally mounted and easily replaced "D" cell battery pack. 2. Proton sensor and signal cable for attachment to carry-

3. Adjustable carrying harness.

ing harness or staff.

- 4. 8 foot collapsible aluminum staff.
- 5. Instruction manual, complete set of spare batteries, applications manual, and rugged field suitcase.

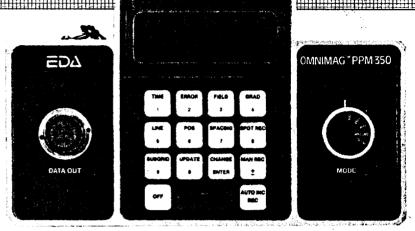
Price and lease rates on the G-816 magnetometer are available upon request.

SPECIFICATIONS

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Sensitivity:	±1 gamma throughou	it range		
Range:	20,000 to 90,000 gammas (worldwide)			
Tuning: «	Multi-position switch cator light on display	with signal amplitude indi-		
Gradient Tolerance:	Exceeds 3 00 gammas Areganite 800 gamma	///- [increased gradiality tol- s/ft u poccality.ity]		
Sampling Rate:	Manual push-button, (one reading each 6 seconds		
Output:	5 digit numeric displ gammas	ay with readout directly in		
Power Raquirements:	sally available flashli	1.5 volt "D" cell, univer- ght-type batteries. Charge signified by flashing indi-		
	Battery Type Alkaline Premium Carbon Zind Standard Flashlight	Number of Readings over 10,000 over 4,000 over 1,500		
	NOTE: Battery life di ature operation.	ecreases with low temper-		
Temperature Range:	Console and sensor:			
-	Battery Pack:	0° to +50°C (limited use to -15°C; lower tempera- ture battery belt opera- tion—optional)		
Accuracy (Total Field):	±1 gamma through range	0° to +50°C temperature		
Sensor:	High signal, noise of mounted on separate ing harness	cancelling, interchangeably e staff or attached to carry-		
Size:	Sensor: 4.5 x 6 inc	neter x 8 ft lenght		
Weight:	Console (w/batteries Sensor & signal cabl Aluminum staff:			
vear warranty	beginning with th	re covered by a one ne date of receipt but om the shipping date.		

geoMetrics	395 JAVA DRIVE SUNNYVALE, CA. 54085 U.S.A (408) 734-4818 CABLE: GEOMETRICS" SUNNYVALE TELEX NO: 357-438	GEOMETRICS INTERNATIONAL CORP 80 ALFRED ST., MILSON'S POINT SYDNEY HSW 2081 PHONE: 92-9842		436 LINESTONE CRESCENT, OOWNSVIEW (TORONTO), ONTARIO, CAMADA TELEXINORE (118) 561-1985 TELEXINOR (118) 561-1985
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OMPMAC PPM-350 Total Field Magnetometer



The PPM-350 is the latest addition to EDA's OMNIMAG^{*}™ series of magnetometers and gradiometers. It is engineered to provide users with the latest state-of-the-art advances in microprocessor technology, including many features that are unique in the field.

Major benefits and features include:

- Significant increase in productivity
- Lowered survey costs
- Automatic diurnal correction
- Programmable grid coordinates
- Highly reproduceable data
- Ergonomic design
- Simplified fieldwork
- Computer-compatible

Specifications

Dynamic Range Sensitivity Statistical Error Resolution Standard Memory Capacity Absolute Accuracy

Display Resolution Capture Range

Display

Gradient Tolerance Sensor

Sensor Cable

Operating Environmental Range

Power Supply

Battery Cartridge Life

Weight and Dimensions Instrument Console only Lead Acid Battery Cartridge Sensor System Complement

18,000 to 93,000 gammas ±0.02 gamma 0.01 gamma 1383 data blocks or readings ±15 ppm at 23°C, 50 ppm over the operating temperature range 0.1 gamma $\pm 25\%$ relative to ambient field strength of last stored value Custom-designed, ruggedized liquid crystal display with an operating temperature range from -35°C to +55°C 5.000 gammas per meter Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy Remains flexible in temperature range: includes low strain connector -35°C to +55°C; 0-100% relative humidity; weather-proof Non-magnetic rechargeable sealed lead acid battery cartridge or belt: or, Disposable "C" cell battery cartridge or belt 2,000 to 5,000 readings, depending upon ambient temperature and rate of readings

3.4 kg, 238 x 150 x 250 mm 1.9 kg

1.2 kg, 56 mm diameter x 200 mm Electronics console; sensor with 3-meter cable; sensor staff; power supply; harness assembly; operation manual. EDA is a pioneer in the development of advanced geophysical systems and has created many innovations that increase field productivity and lower survey costs.

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EDA's OMNIMAC series consists of the PPM-350 Total Field Magnetometer, PPM-400 Base Station Magnetometer, and the PPM-500 Vertical Gradiometer. Contact us *now* for details.

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VLF (PLANE WAVE) EM INSTRU





EM16

One of the most popular and widely used electromagnetic instruments, the EM16 VLF receiver makes the ideal reconnaissance EM. This can be attributed to its field reliability, operational simplicity, compactness and mutual compatibility with other reconnaissance instruments such as portable magnetometers and radiometric detectors.

The VLF method of EM surveying, pioneered by Geonics, has proven to be a simple economical means of mapping geological structure and fault tracing. The applications are many and varied, ranging from direct detection of massive sulphide conductors to the indirect detection of precious metals and radioactive deposits.

FEATURES

- The EM16 is the only VLF instrument that measures the quad-phase as well as the in-phase secondary field. This has the advantage of providing an additional piece of data for a more comprehensive interpretation and also allows a more accurate determination of the tilt angle.
- The secondary fields are measured as a ratio to the primary field making the measurement independent of absolute field strength.
- The EM16 is the only VLF receiver that can be adapted to measure VLF resistivity.

Specifications

MEASURED QUANTITY	In-phase and quad phase components of vertical mag- netic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity)
SENSITIVITY	In-phase : ±150% Duad-phase : ± 40%
RESOLUTION	±1% [*]
OUTPUT	Nulling by audio tone. In-phase indication from mechan- lcal inclinometer and quad-phase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	On/Off switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclino meter.
POWER SUPPLY	6 disposable 'AA' cells
DIMENSION G Weight	42 x 14 x 9 cm Instrument: 1.6 kg Shipping : 5.5 kg

VLF RESISTIVITY METER



EM16R

A simple, button on attachment to the EM16 converts it to a direct reading terrrain resistivity meter. The EM16R attachment interfaces a pair of potential electrodes to the EM16 enabling the measurement of the ratio of, and the phase angle between, the horizontal electric and magnetic fields of the plane wave propagated by distant VLF radio transmitters:

The EM16R is direct reading in onm-meters of apparent ground resistivity. If the phase angle is 45°, the resistivity reading is the true value and the earth is uniform to the depth of exploration (i.e. a skin depth). Any departure from 45° of phase indicates a layered earth. Two layer interpretation curves are supplied with each instrument to permit an interpretation based on a two layer earth model.

This highly portable resistivity meter makes an ideal tool for quick geological mapping and has been used successfully for a variety of applications.

- Detection of massive and disseminated sulphide deposits
- Overburden conductivity and thickness measurements
- Permatrost mapping
- Detection and delineation of industrial mineral deposits

Aquifer mapping

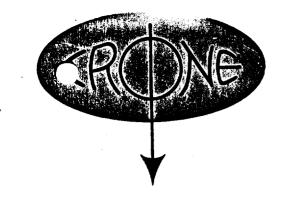
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Specifications

MEASURED QUANTITY	 Apparent Resistivity of the ground in ohm meters Phase angle between E_X and H_y in decrees
RESISTIVITY RANGES	 10 — 300 onm-meters 100 — 3000 ohm-meters 1000 — 30000 ohm-meters
PHASE RANGE	0.90 degrees
RESOLUTION	Resistivity : ±2% full scale Phase : ±0.5*
DUTPUT	Null by audio tone. Resistivity and phase angle read from graduated dials.
PERATING FREQUENCY	15-25 kHz VLF Radio Band. Station selection by means of rotary switch.
ITERPROBE SPACING	10 meters
ROBE INPUT IMPEDANCE	100 M Ω in parallel with 0.5 picofarads
MENSIONS	19 x 11.5 x 10 cm. (attached to side of EM16)
/EIGHT	1.5 kg (including probes and cable)

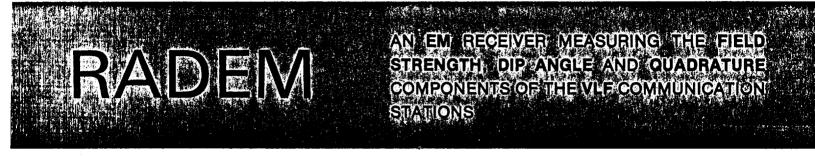


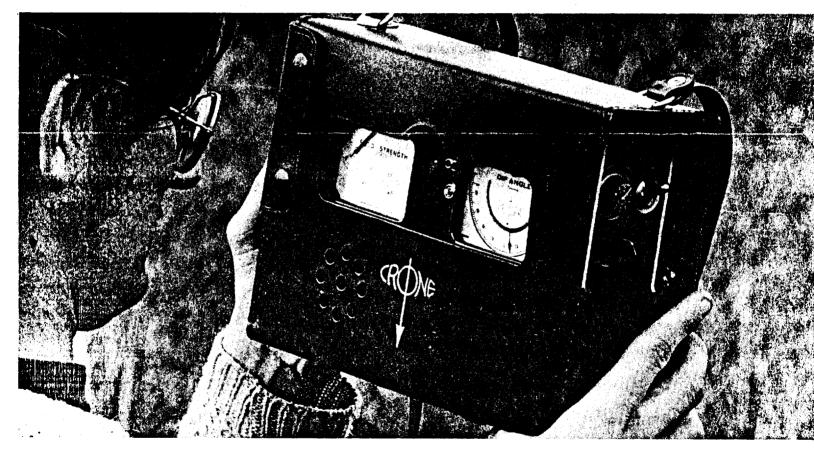
CRONE GEOPHYSICS LIMITED

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Phone: (416) 270-0096

Cable: CRONGEO, TORONTO





This is a rugged, simple to operate, ONE MAN EM unit. It can be used without line cutting and is thus ideally suited for GROUND LOCATION OF AIRBORNE CONDUCTORS and the CHECKING OUT OF MINERAL SHOWINGS. This instrument utilizes higher than normal EM frequencies and is capable of detecting DISSEMINATED SULPHIDE DEPOSITS and SMALL SULPHIDE BODIES. it accurately isolates BANDED CONDUCTORS and operates through areas of HIGH HYDRO NOISE. The method is capable of deep penetration but due to the high frequency used its penetration is limited in areas of clay and conductive overburden.

The DIP ANGLE measurement detects a conductor from a considerable distance and is used primarily for locating conductors. The FIELD STRENGTH measurement is used to define the shape and attitude of the conductor.

SPECIFICATIONS

SOURC	E OF PRIMARY FIELD:	VLF Communication Stations 12 to 24K hz
NUMBE	R OF STATIONS:	7 switch selectable
STATIC	NS AVAILABLE:	The seven stations my be selected from:
Code	Station & Location	Frequency
CM	Cutler, Maine	
SW	Seattle, Washington	
AM		
H		
BOF		
Е		
MS		
OD		
NC		
YJ		······
HN	Hegaland, Norway	·····
TJ		
BA	Buenos Aires	······

CHECK THAT STATION IS TRANSMITTING: Audible signal from speaker.

PARAMETERS MEASURED:

(1) DIP ANGLE in degrees of the magnetic field component, from the horizontal, of the major axis of the polarization ellipse. Detected by a minimum on the field strength meter and read from an inclinometer with a range of $\pm 90^{\circ}$ and an accuracy of $\pm \frac{1}{2}^{\circ}$.

(2) FIELD STRENGTH (total or horizontal) of the magnetic component of the VLF field, (amplitude of the major axis of the polarization ellipse). Measured as a percent of normal field strength established at a base station. Accuracy $\pm 2\%$ dependent on signal. Meter has two ranges: 0 — 300% and 0 — 600%.

(3) OUT-OF-PHASE component of the magnetic field, perpendicular in direction to the resultant field, as a percent of normal field strnegth, (amplitude of the minor axis of the polarization ellipse). This is the minimum reading of the Field Strength meter obtained when measuring the dip angle. Accuracy $\pm 2\%$.

OPERATING TEMPERATURE RANGE: -30°C (-20°F) to +50°C (120°F)

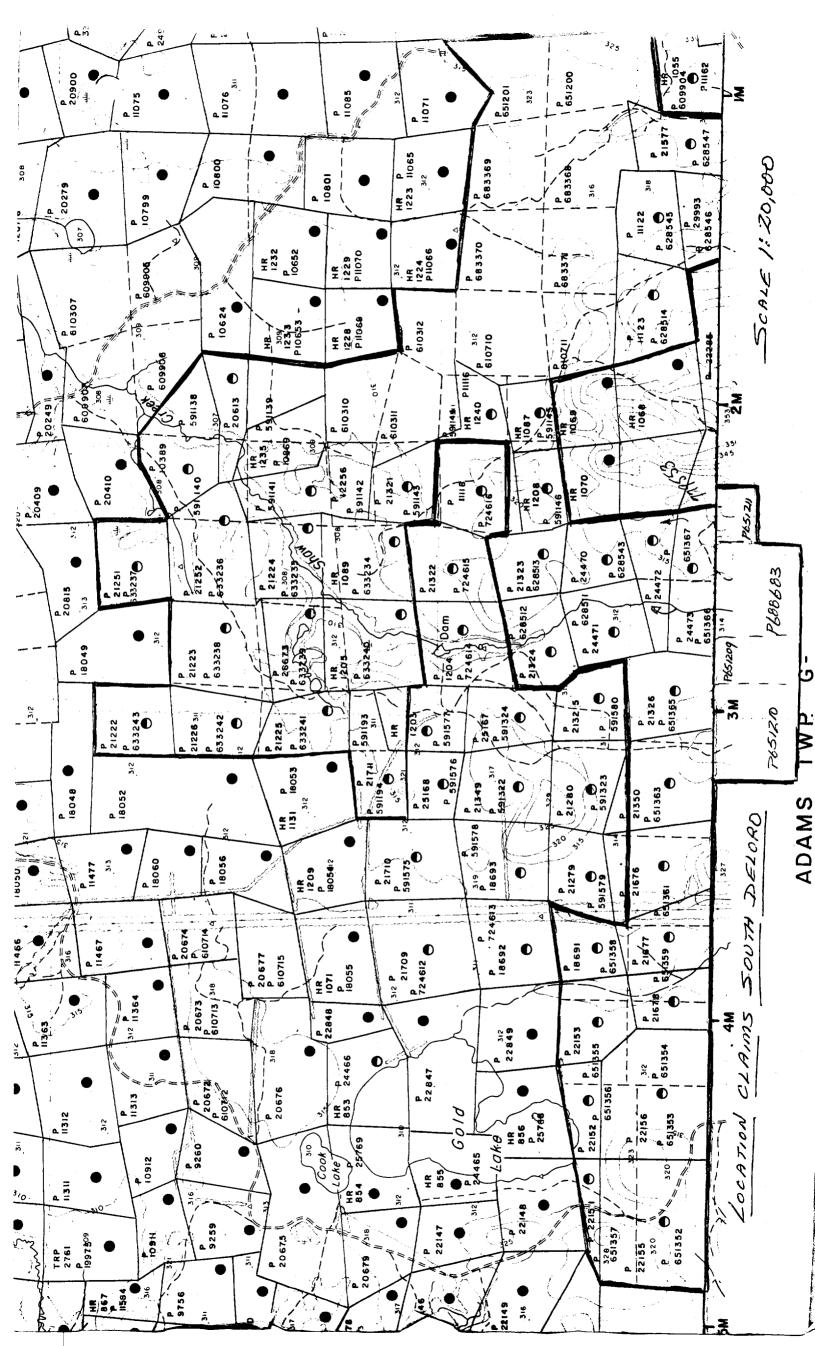
DIMENSIONS AND WEIGHT: 9 x 19 x 27cm — 2.7Kg (6 lb)

SHIPPING: Instrument with foam lined wooden case, shipping wt. — 6.0Kg (13 lb)

BATTERIES:

2 of 9 volt — Eveready 216 Average life expectancy — 20 hours for continuous operation

UNITS AVAILABLE ON A RENTAL OR PURCHASE BASIS. CONTRACT SERVICES AVAILABLE FOR FIELD SURVEYS.



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rtification Verifying Report I hereby certify that I have a per		Owledge of t	the facts and f	7 -	A Most	ad been		
or witnessed same during and/or	r after its completion a	ind the anne	exed report is	true.				ne work
The and Postal Address of Person $D R PYKE$,	Certifying		0.					
D K TIKE,	31 DEL	AIR_	URES	5 1/HOR	NHILL	ONT	ARIOLE	TZM3
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N.R Instructions: Please type or print. Ministry of Report of Work If number of mining claims traversed Naturai Geochemical and Expenditures) 718 exceeds space on this form, attach a list. 13 Resources Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Note: -Ontario The Mining Act May 28/84 or use shaded - balow Type of Survey(s) waship or Area ELORO JEOPHYSICAL 'DA Claim Holder(s) tor's Licence No ロ・ボ 19125 CRES. (37 ZM3 DELAIR THORNHILL 31 ハナ FXJICS Date Total Miles of line Cut 03 20 to Exploration OMSTATE TRESOURCES . An and Address of Author (of Geo-Technical report) PYKE THORNHILL, ONTARIO CRES, *ム3F2M*3 31 DELAIR Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Mining Claim **Special Provisions** Mining Claim Days per Claim Expend. Days Cr. Expend. Days Cr. Geophysical Prefix Numbe Prefix Number For first survey: Electromagnetic 20 \mathcal{D} 591138 633242 Enter 40 days. (This includes line cutting) - Magnetometer 20 633243 91139 - Radiometric 91140 651209 For each additional survey: using the same grid: - Other 51210 14 Enter 20 days (for each) 25 Geological 51211 10.31.092 34 N 13 Geochemical 51352 591143 1 Man Days Days pe Geophysical 591144 Claim Complete reverse sides DIV:: Electromagnetic 5911.45 51354 and enter total (Enere V IUJ 59114k agnetometer KR 2 7 1984) A.M. P.M 1194 718191101111211123141516 62851 Geochemical 628512 513**5**9 Days per Claim Airporne Credits 551361 628513 RECOPPE Note 6285**43** 651363 credits do not apply 651365 to Airband Rufveys, 1001agnetometer 33234 651366 633235 Expenditures lexcludes po 65136-3 Type of Work Performed 237 688683 1984 MAY Performed on Claim(s) 37.38 MINING LANDS SECTI 2000 24n Calculation of Expenditure Days Credits Total Total Expenditures **Days Credits** \$ 15 otal number of mining claims covered by this report of work. Instruction 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 Davs Cr. Date Recorded Mining Read in columns at right. Recorded March 27, 198 ider of Agent (Sign 1680 Date Approved as Branch Recorded sture) Mining Recorder Date. 1av 22 7 Certification Verifying Report of Work) 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 CRE 35,2,113 DELAIR ALL ルア 31 ÷ (Signature)

Natural Resources (Geo Geoc	physical, Geological, hemical and Expendi	tures)	\$157184 The Mining Act	Note:	If number of mining cla exceeds space on this form Only days credits calcu "Expenditures" section m in the "Expend. Days (Do not use shaded areas bei	n, attach a list. lated in the ay be entered Cr." columns.
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Pare Pril 61 4	corded Horder of Agent	Signature)	200 Date Approved	25/84	Hund	6
ertifidation Verifying Repo	rt of Work			-/-/-		
I hereby certify that I have a or witnessed same during and		-	the facts set forth in the Report of exercise the set of the set o	of Work ann	exed hereto, having performe	d the work
ame and Postal Address of Per	son Certifying			<u> </u>	~ · · · ·	
						A
DR PYKE	31 DELA	UR C	RES THORNH Date Centified	ILL, C	DNIT 23T 2	<u>m3</u>

Ministry of Natural Resources GEOPHYSICAL – GEOLOGICAL – GEOCHE TECHNICAL DATA STATEMENT	
TO BE ATTACHED AS AN APPENDIX TO TECHNICA FACTS SHOWN HERE NEED NOT BE REPEATED IN TECHNICAL REPORT MUST CONTAIN INTERPRETATION, C	REPORT
Type of Survey(s) <u>GEOPHYSICAL</u> Township or Area <u>DELORO – ADAMS</u> Claim Holder(s) <u>D.R. PYKe</u>	MINING CLAIMS TRAVERSED List numerically
Survey Company Wollex ExploRATION, EXSICS ExploR. Author of Report D. R. PYKe, Address of Author <u>31 DELAIR CRES THORNHILL</u> OW Covering Dates of Survey <u>AUGI/83</u> — MAY 17/84 (linecutting to office)	$\begin{array}{cccc} P & 591138 \\ P & 591139 \\ P & 591139 \\ P & 591140 \\ P & 591141 \end{array}$
Total Miles of Line Cut <u>46.4</u>	P 591142
ENTER 40 days (includes -Electromagnetic 20 line cutting) for first -Magnetometer 30 survey. -Radiometric	P 591143 P 591144 P 591145 P 591146 P 591193
ENTER 20 days for each -Other	P 591194
Magnetometer Electromagnetic Radiometric DATE: ////////////////////////////////////	P 628511 P 628512 P 628513
Res. GeolQualifications	P 628543 P 633234 P 633235
Previous Surveys File No. Type Date Claim Holder	P 633236 P 633237
RECEIVED MAY 2.2 1994	P 633238 P 633239
Mining LANDS SECTION	P 633240 total claims 47

OFFICE USE ONLY

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GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -	– If more than one survey,	specify data for eac	h ty <mark>pe</mark> of survey
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N	Number of Stations3899	Number of Readings _3899				
	Station interval <u>SOFT</u>	Line spacing 400 FT				
P	Profile scale	_				
С	Contour interval 100 GAMMAS					
	Instrument <u>Geometrics</u> Model					
IET	Accuracy – Scale constant					
MAGNETIC	Diurnal correction method	ION ESTOBIISNER ON PROPERTY				
М	Diurnal correction method <u>base station established on property</u> Base Station check-in interval (hours) <u>base str.</u> mercod every 30 seconds Base Station location and value <u>LIGW</u> , 2N - 59966 GAMMAS					
	Base Station location and value	21V - STTOO GAMMAS				
ELECTROMAGNETIC	Instrument <u>Geonics EM-16</u> Coil configuration Coil separation Accuracy					
RO	Method:	☐ Shoot back ☐ In line ☐ Parallel line				
LECT	Frequency <u>VLF STATION CUTLER MAINE</u> 17.8 KHz (specify V.L.F. station)					
Ш	Parameters measured FN-PHASE COM	PONENT & QUADRATURE; DID ANCLE.				
	Instrument					
	Scale constant					
건	Corrections made					
GRAVITY						
GR	Base station value and location					
•		······································				
	Elevation accuracy					
	To down and					
I	Instrument	Frequency Domain				
	Method	•				
		Frequency				
LT V	– Off time	Range				
LIV	— Delay time					
RESISTIVITY	– Integration time					
RE						
	Electrode array					
	Electrode spacing					
	Type of electrode					

INDUCED POLARIZATION

MINING CLAIMS (CONTINUED)

P610310

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Or	ntario

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GEOPHYSICAL - GEO	OLOGIC.	AL – 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) GEOPH	HYSICAL	
Township or Area <u>DELC</u> Claim Holder(s) <u>D. R. P</u> V	Ŕo	MINING CLAIMS TRAVERSED List numerically
Survey Company <u>WOLLEX</u> Author of Report <u>D.R.P</u> Address of Author <u>31</u> <u>DELF</u> Covering Dates of Survey <u>Augu</u> Total Miles of Line Cut <u>18.</u>	KE BIR CRES, THORNHILL 83 - MAU17/84 (linecutting to office)	$\begin{array}{rrrrr} P & 6.28544 \\ \hline P & 6.28545 \\ \hline P & 6.28546 \\ \hline P & 6.28547 \end{array}$
SPECIAL PROVISIONS CREDITS REQUESTED ENTER 40 days (includes line cutting) for first survey. ENTER 20 days for each additional survey using same grid. AIRBORNE CREDITS (Special provision MagnetometerElectromagnet (enter day) DATE:		P 651200 P 651201 P 683368 P 683369 P 683370 P 683371
Res. GeolQualific <u>Previous Surveys</u> File No. Type Date	Claim Holder	
·····		TOTAL CLAIMSO

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

G	ROUND SURVEYS – If more than one survey, spec	cify data for each type of survey	$\widehat{}$
N	umber of Stations	Number of Readings 992	
	ation interval <u>SOFT -100 FT</u>		
	ofile scale		
	ontour interval		<u>,</u>
U			
a	Instrument		
Ĭ	Accuracy – Scale constant		
MAGNETIC	Diurnal correction method		
MA	Base Station check-in interval (hours)		
•	Base Station location and value		
<u>5</u>	Instrument <u>GEONICS EM-16</u> ; C	RONE RADEM.	
<u>NET</u>	Coil configuration		
ELECTROMAGNETIC	Coil separation		
MO	Accuracy		
TR	Method: 🗌 Fixed transmitter	□ Shoot back □ In line	Parallel line
LEC	Frequency VLF STATION CUTLA	ER MAINE 17.8 KH2	
۳Ì	Frequency VLF STATION CUTLA Parameters measured IN-PHASE COM	PONENT & QUadrature : 2	DIP ANGle
	Instrument		
	Scale constant		·
λIJ	Corrections made		
IV			
GRAVI	Base station value and location		
	Elevation accuracy		
	Instrument		
I	Method	Frequency Domain	
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	Type of electrode		····

INDUCED POLARIZATION

1984 10 31

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Your File: 137/84 Our File: 2.6771

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

Dear Sir:

RE: Notice of Intent dated September 25, 1984 Geophysical (Electromagnetic & Magnetometer) Survey on Mining Claims P 591138 et al in the Townships of Deloro and Adams

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 Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario N7A 1W3 Phone: (416)965-4888

D. Isherwood:mc

- cc: D.R. Pyke 31 Delair Crescent Thornhill, Ontario L3T 2M3
- cc: G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

cc: Resident Geologist Timmins, Ontario

Encl.

\bigcirc	Ministry of
	Natural
Ontario	(

828 (83/6)

Technical Assessment Work Credits

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2.6771 Mining Recorder's Becost of Work No. 1.37/84

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File

Type of survey and number of Assessment days cradit per claim Mining Claima Assessed eophysical 20 days Bigenetometer 20 days Magnetometer 20 days Padiometric days 628511 to 513 inclusive 628543 Induced polarization days 633234 to 243 inclusive 651209 to 211 inclusive 651362 to 359 inclusive 651361 Other days 651361 651365 to 367 inclusive 651365 Geological days Geological days Seclogical days Seclogical days Special provision IX Ground IX pecial provision IX Ground IX in outer section 77 (19) for the following mining claims D DAYS ELECTROMAGNETIC 10 DAYS MAGNETOMETER P 591193	winship or Area DELODO ADAMS TOWNS	
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not sufficiently covered by the survey	P 591193	
not sufficiently covered by the survey		
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not sufficiently covered by the survey	to credits have been allowed for the following mini	ng claims
P 591144	not sufficiently covered by the survey	X Insufficient technical data filed
		Р 591144
	·	



Ministry of Natural Resources



1984 09 25

Your File: 137/84 Our File: 2.6771

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

Dear Sir:

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

For further information, if required, please contact Mr. 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

D. Isherwood:mc

- cc: D.R. Pyke 31 Delair Crescent Thornhill, Ontario L3T 2M3
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

845



Ministry of Natural Resources Notice of Intent for Technical Reports 1984 09 25 2.6771/137/84

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.

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.



Ministry of Natural Resources

July 30, 1984

Our File: 2.6771

D.R. Pyke 31 Delair Crescent Thornhill, Ontario L3T 2M3

Dear Sir:

RE: Geophysical (Electromagnetic, Magnetometer) Surveys submitted on Mining Claims P 591138 et al in the Townships of Deloro and Adams

Enclosed are plans, (A & C), in duplicate, for the abovementioned surveys. Credits have been requested for claim P 591144, however, this claim cannot be located on your survey plans. Could you please check the position and numbering of the claims and correct for any omissions.

For further information, please contact Mr. Ray 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 Phone: (416)965-4888

D. Isherwood:mc cc: Mining Recorder Timmins, Ontario

Encl.



Dear Ray:

Claim P591144 Coincides war claim P610311. I have therefore Cancelled claim P591144.

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6			Mi	inistry of Natur	al Resou	Irces			
Ont	APPLI	NING ACT CATION TO RECO	RD THE S	STAKING OUT	OF MI	NING CLAIM(LEASE PRINT IN B	LOCK
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Application to Record The Staking Out of Mining Claim(s)

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Prospector's Licence Office Use - Receipt No 1-20248 Pass for service) Jim mins Dated at Houmber Dated at Houmber	Name and Address for non-residents 17 196 MINING AND LAN COMMISSIONER Restaking of Claim No.	34 NDS R
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Our File: 2.6771

July 30, 1984

D.R. Pyke 31 Delair Crescent Thornhill, Ontario L3T 2M3

Dear Sir:

RE: Geophysical (Electromagnetic, Magnetometer) Surveys submitted on Mining Claims P 591138 et al in the Townships of Deloro and Adams

Enclosed are plans, (A & C) in duplicate, for the abovementioned surveys. Credits have been requested for claim P 591144, however, this claim cannot be located on your survey plans. Could you please check the position and numbering of the claims and correct for any omissions.

For further information, please contact Mr. Ray 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 Phone: (416)965-4888

D. Isherwood:mc

cc: Mining Recorder Timmins, Ontario

Encl.

Your File:115, 137, 157. Our File:2.6771

1984 05 29

Mr. Bruce Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 287

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic & Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 591138 et al in the Township of Deloro.

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) 965-6918

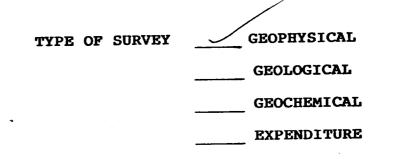
A. Barrisc

cc: Dr. D.R. Pyke 31 Delair Cres. Thornhill, Ontario L3T 2M3

File No 2. 6771

Mining Lands Section

Control Sheet



MINING LANDS COMMENTS: Lain his & the contraction tendes #137/84 NoI # 115/84 × 157/84 approval



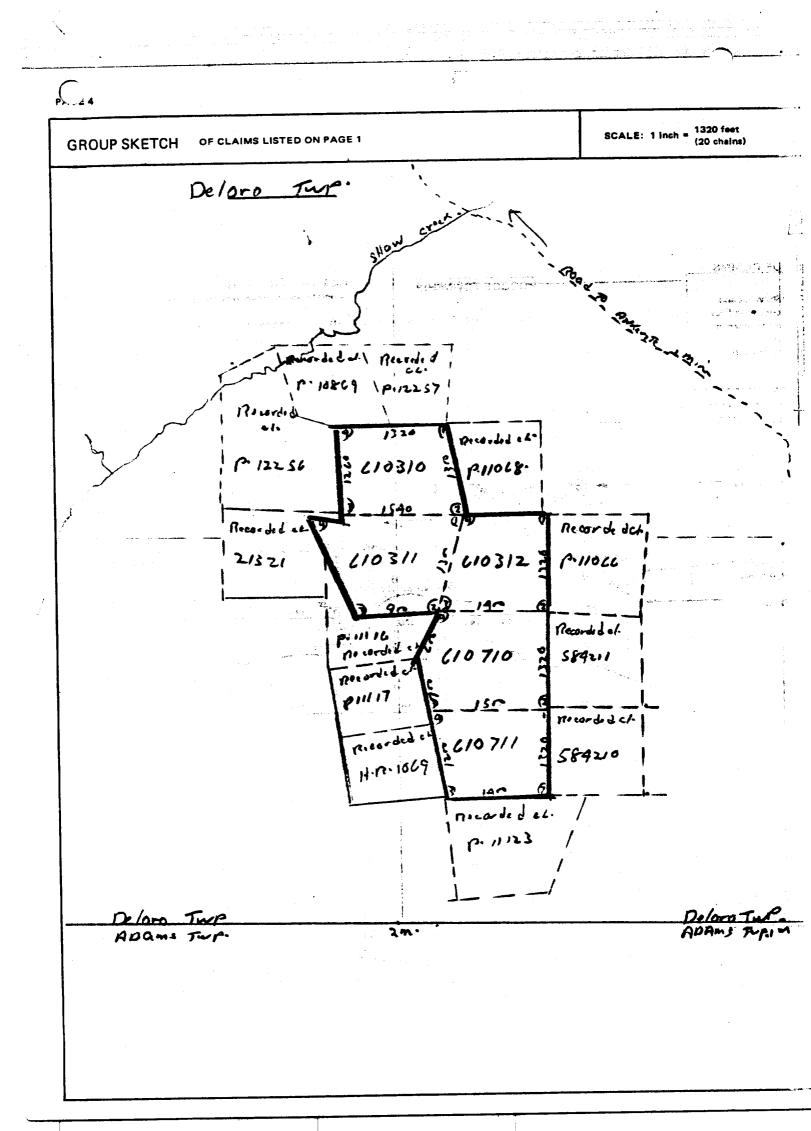
Signature of Assessor

Date

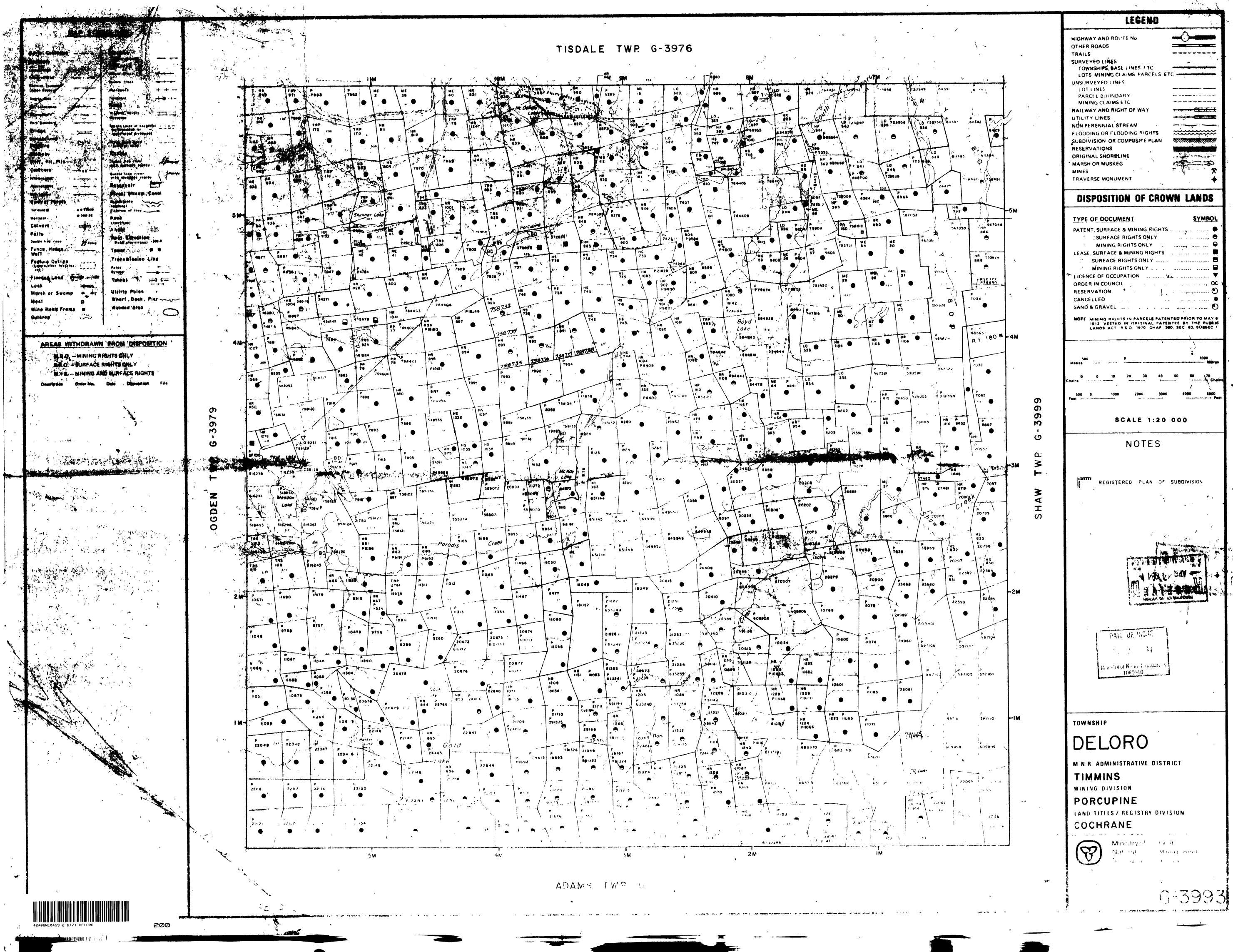
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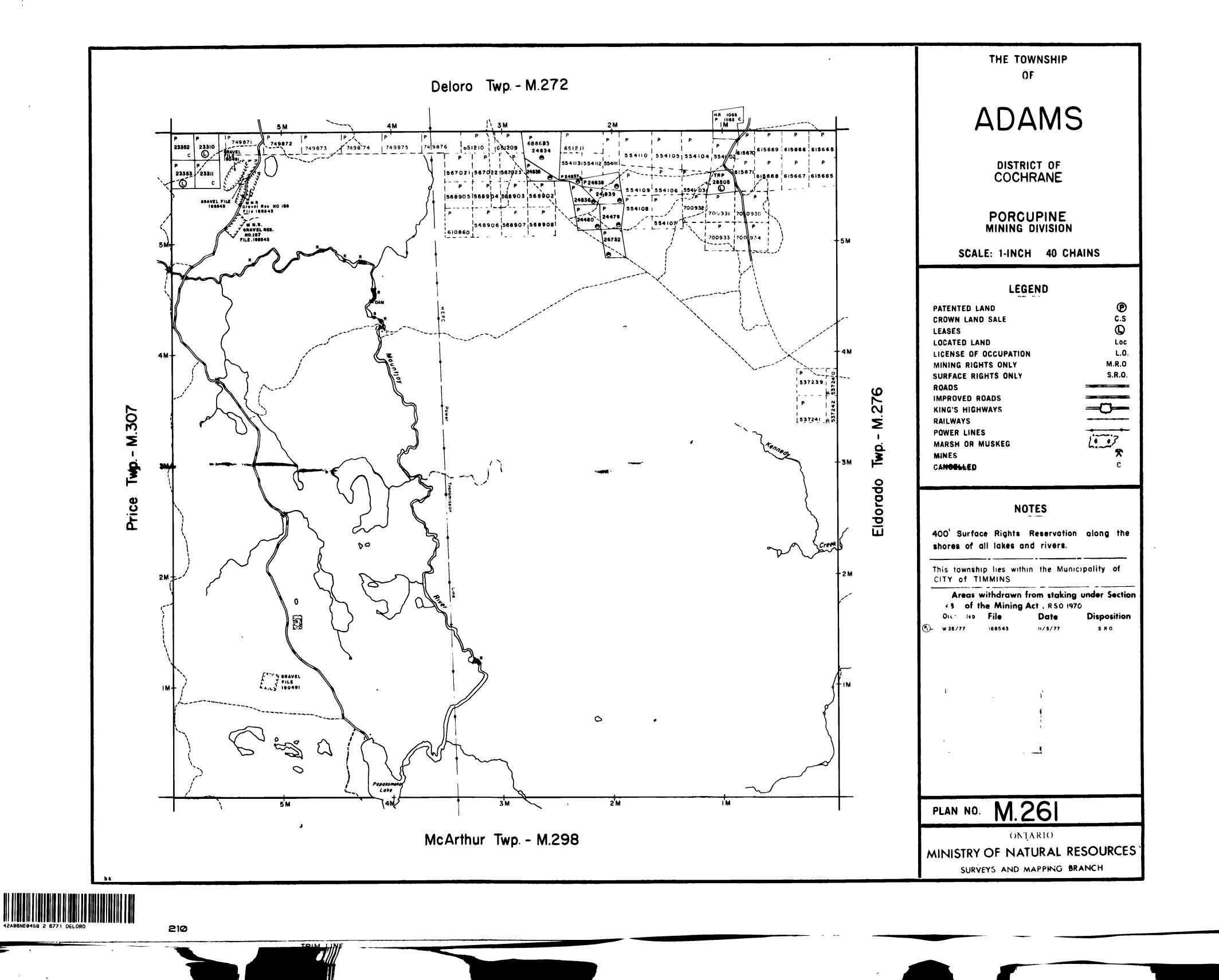
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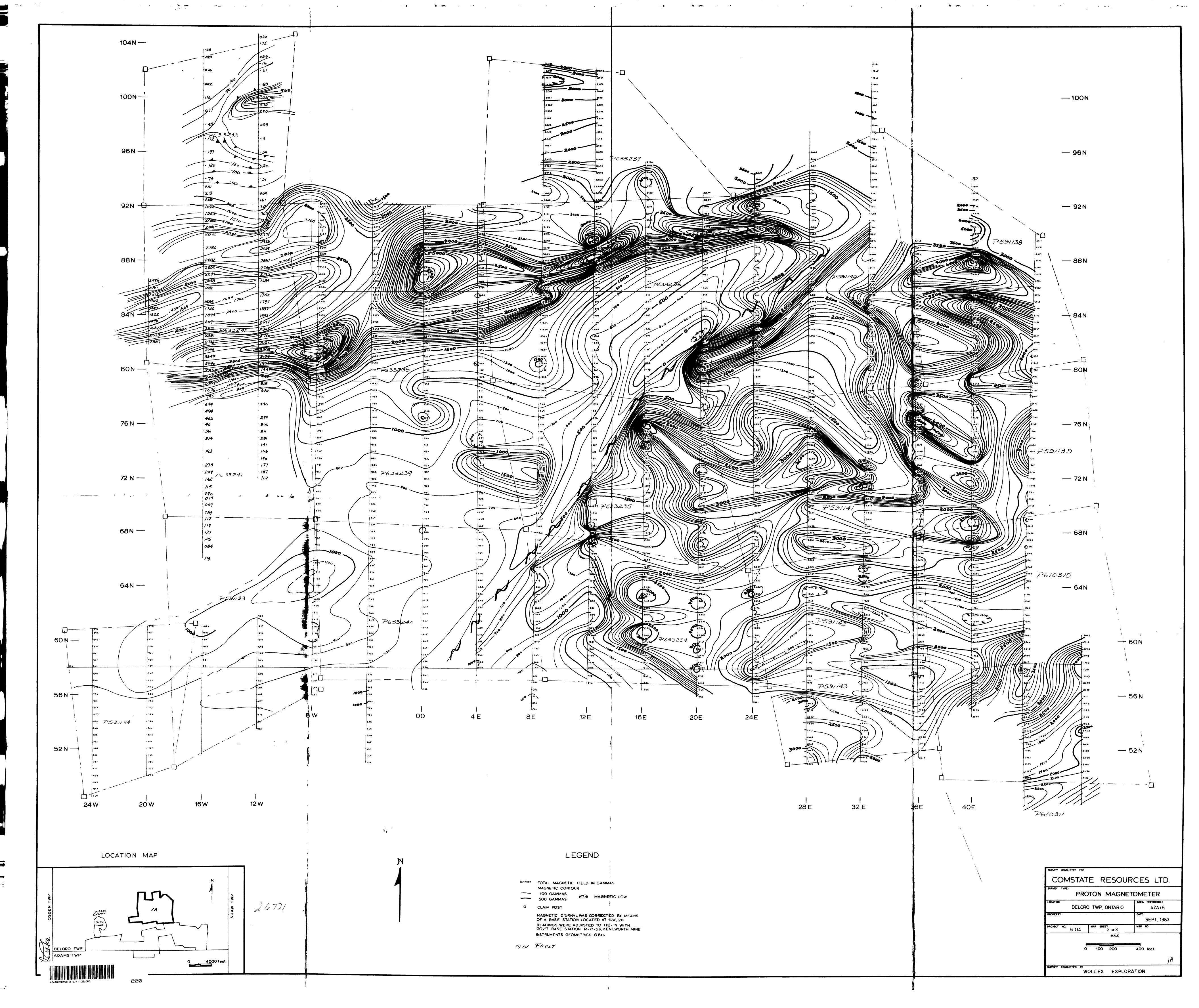
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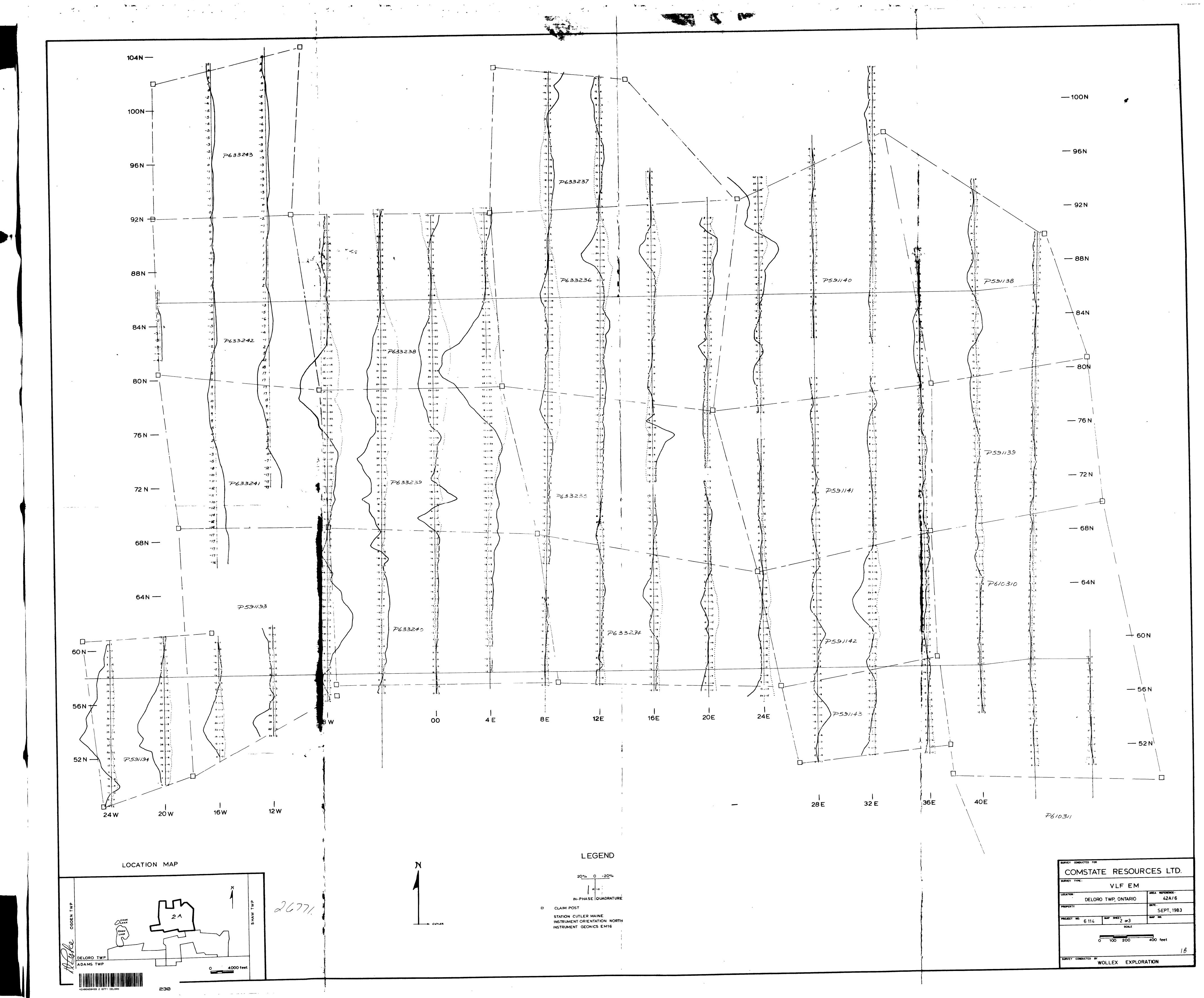


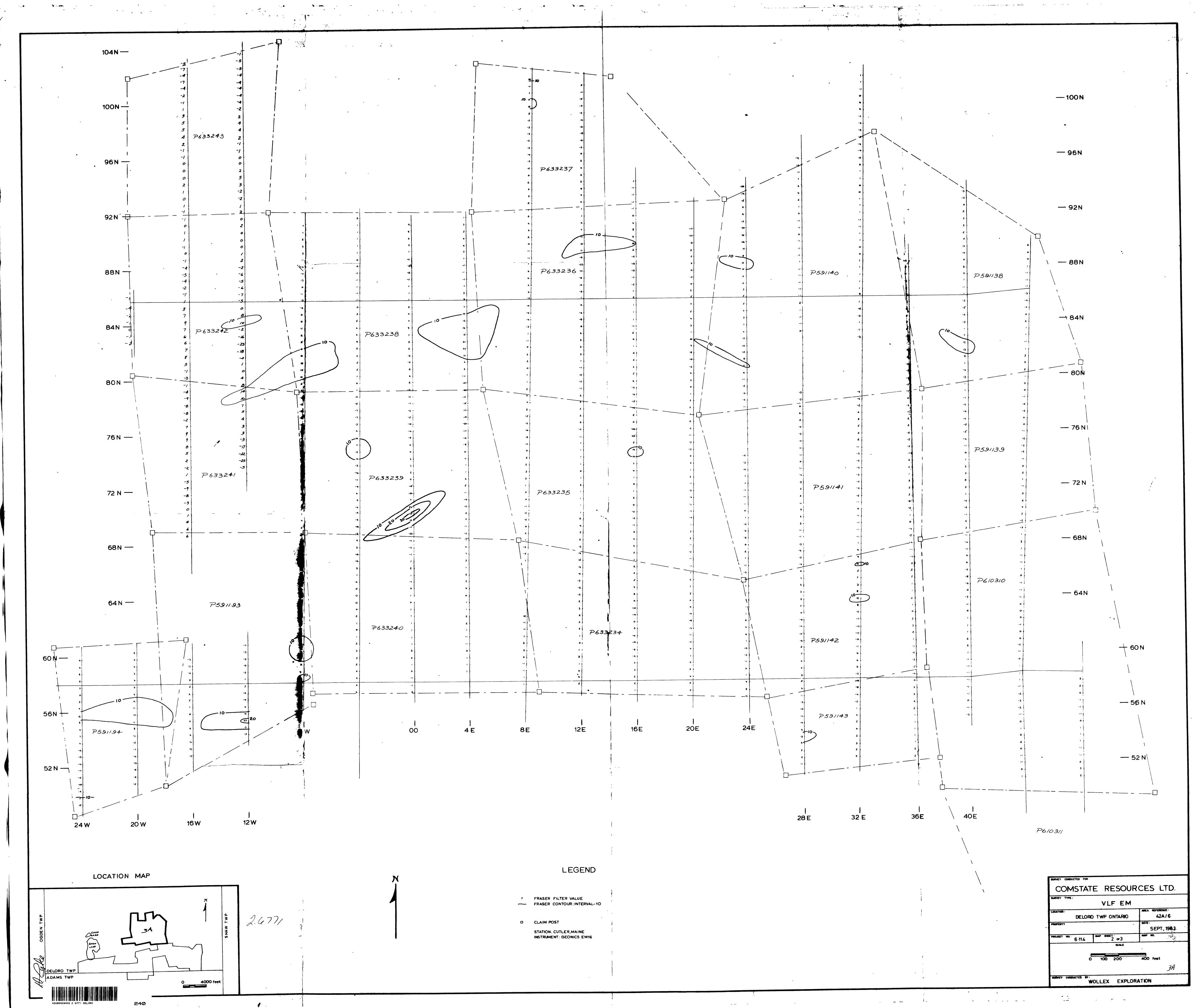


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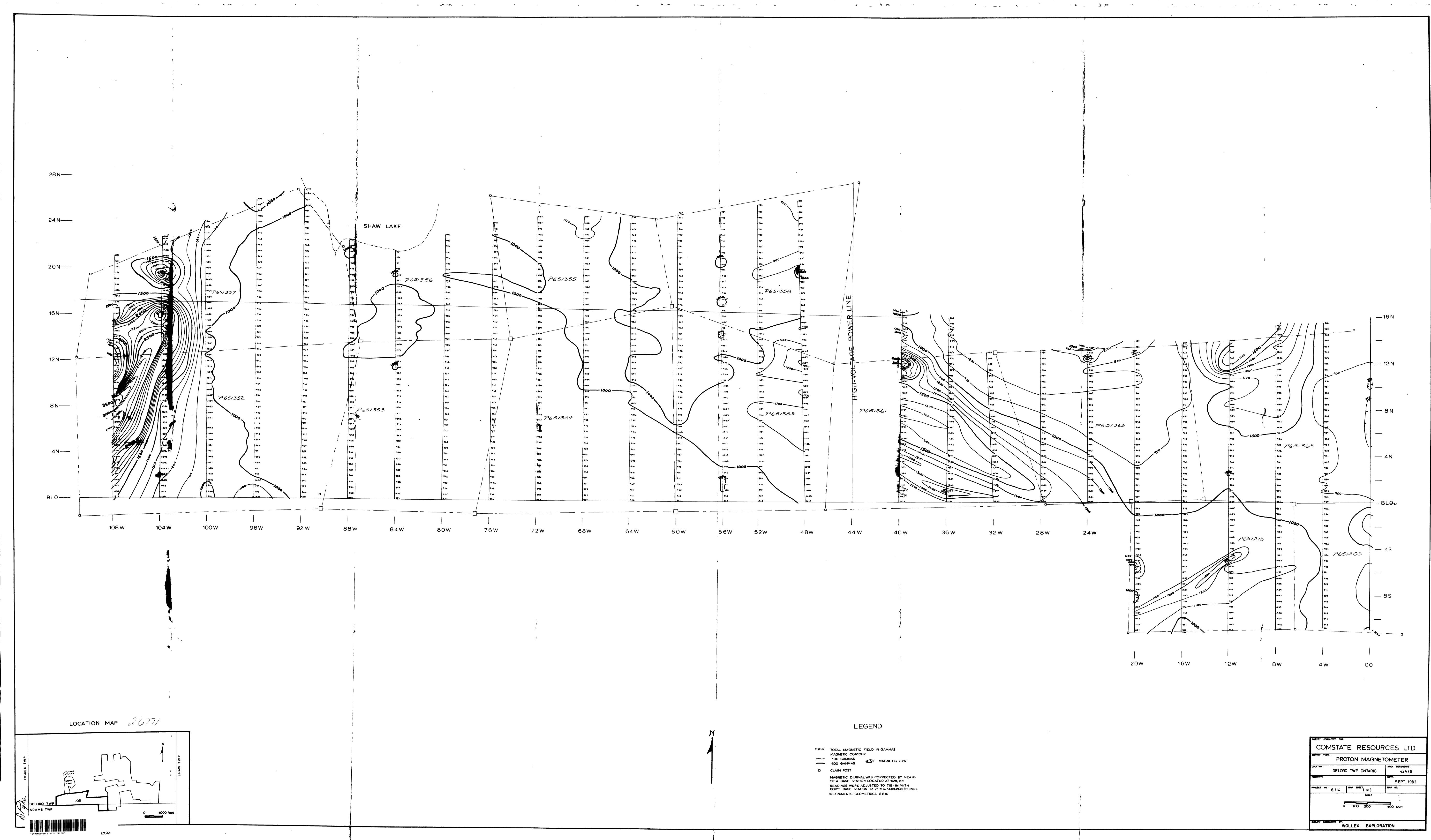






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