



52G13NW0009 2.7214 PARNES LAKE

010

MID-CANADA EXPLORATION SERVICES LIMITED

REPORT ON A GROUND
MAGNETIC
AND
ELECTROMAGNETIC PROGRAM
FOR
GOLDEN RANGE RESOURCES INC.

NEEPAWA ISLAND PROJECT

PARNES LAKE AREA

SIOUX LOOKOUT, ONTARIO

N.T.S. 52 - G - 13

RECEIVED

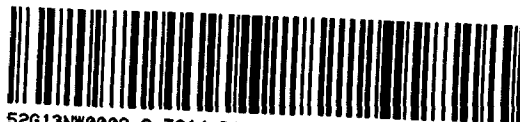
SEP 24 1984

MINING LANDS SECTION

Timmins, Ontario
September 18, 1984

Kenneth Guy
Geologist

TABLE



52G13NW0009 2.7214 PARNES LAKE

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CONCLUSIONS AND RECOMMENDATIONS

The ground geophysical program was successful in delineating a number of anomalies, 11 of which are rated high priority and recommended for diamond drill follow-up.

The magnetic survey was successful in delineating the volcanic-sediment contact, an environment known to host gold occurrences within the project area.

The Golden Range Resources Inc. property encompasses 10 Au occurrences and surrounds or is adjacent to at least five additional occurrences. The nature of the gold mineralization is that of a lode-gold type occurrence, gold in quartz veins, with associated carbonate alteration and local concentrations of pyrite. The veins are located on or adjacent to the volcanic-sediment contact and are both conformable and non-conformable, indicating a structural as well as stratigraphic control. The occurrences appear to be amenable to detection with geophysical methods as many of the occurrences have coincident and/or are along strike from geophysical features.

The 11 high-priority anomalies represent features that are either coincident or appear related to a gold occurrence and therefore represent targets that require no further definition and are recommended for diamond drill testing.

CONCLUSIONS AND RECOMMENDATIONS (Cont'd)

The following recommendations are made for the project area:

- 1) It is recommended that the 11 priority one VLF-EM anomalies be diamond drill tested.
- 2) The project area should be the subject of an intensive strip-ping, sampling and mapping program, concentrating on the known gold occurrences.
- 3) The area on the lake between Neepawa Island and Burnthut Island contains many low frequency AEM anomalies that were not recovered on the ground survey, possibly due to water depth, greater than 100 feet, and conductive clays on the lake bottom; this area should be covered with a Horizontal Loop Electromagnetic (HLEM) survey. These features are of interest due to their apparent high conductivity and proximity to the volcanic-sediment contact.

INTRODUCTION

During the months of February and March, 1984, a combined Very Low Frequency Electromagnetic (VLF-EM survey) and Magnetic survey were carried out over the Neepawa Island property owned by Golden Range Resources Inc. (GRRI)

The purpose of the surveys was to explore for potential gold bearing structures and stratigraphy, possibly correlating the geophysical data to the numerous gold occurrences within and adjacent to the Golden Range Resources property.

The purpose of the VLF-EM survey was to detect on the ground, zones of conductivity which may be produced by conductive minerals and/or zones of shearing or faulting. The magnetic survey was performed to determine if any magnetic correlation exists with apparent conductivity and to aid in stratigraphic correlation.

LOCATION AND ACCESS

The Neepawa Island project of Golden Range Resources Inc. is located in the unsubdivided map area of Parnes Lake in the District of Kenora, Patricia Mining Division, Ontario.

The project area is centered on Neepawa Island, on Minnitaki Lake, about seven miles south of Sioux Lookout. Sioux Lookout is located 180 miles northwest of Thunder Bay, Ontario.

Access to the property is by boat in the summer or snowmobile in winter from Sioux Lookout or the numerous access points to Minnitaki Lake off Highway 72.

PROPERTY

The Neepawa Island Project consists of 81 unpatented mining claims for a total of approximately 3,240 acres. Ten of the claims were recorded in September, 1982, the remaining 71, July 1983.

The claims lie within the Patricia Mining Division. The claims covered by the combined surveys are:

Pa650239 - 245 incl.	7 claims
Pa652801 - 803 incl.	3 claims
Pa741551 - 578 incl.	28 claims
Pa741580 - 583 incl.	4 claims
Pa741585 - 600 incl.	16 claims
Pa742301 - 321 incl.	21 claims
Pa697342, 343	<u>2 claims</u>
	81 claims

A total of 81 unpatented contiguous mining claims.

PREVIOUS WORK

For a detailed handling of the previous work refer to: Guy, K. W., 1983; and Rupert, R. S., 1983.

Much of the previous work was centered on Neepawa Island and Burnthut Island. These two locations are historical occurrences which received much publicity in the past. Work throughout the area has been spotty and intermittent due to fragmentation of property ownership. Very little or no work has been conducted on the water-covered portions of the property which accounts for 75% of the favourable stratigraphic interval.

PREVIOUS WORK (Cont'd)

Previous work by Golden Range Resources Inc. consists of a 1983 program of prospecting and six diamond drill holes.

GENERAL GEOLOGY

Regionally, the area is underlain by rocks of Early Precambrian (Archean) age, structurally part of the Wabigoon subprovince, comprised of metavolcanics and metasediments.

The area contains two belts of east-northeast trending metavolcanics and metasediments. The metavolcanics consist mainly of intermediate-to-mafic flows and pyroclastics with very minor felsic volcanics. Small dikes and masses of quartz porphyry intrude the volcanics. The metasediments consist of gradational sequences of conglomerate through to slates. The contacts of the sediments with the volcanics varies from conformable to unconformable and faulted contacts.

More locally, alteration, especially carbonate, is quite extensive and pervasive, especially in the vicinity of the volcanic-sediment contact.

PROPERTY GEOLOGY AND MINERALIZATION

The following is from Guy, K. W. - 1983.

The property straddles the volcanic-sediment contact which trends east-northeast through the central and eastern section of the property. The western section of the property covers an area underlain by volcanics and quartz porphyry with the sediments to the south and east. The volcanic-sediment contact is highly altered with green carbonate, pyrite, silica and iron carbonates being quite pervasive in the upper volcanic sequence.

The main showing on Neepawa Island is gold associated with quartz stringers in a carbonatized, pyritized alteration halo, located within 500 - 800 feet of the volcanic-sediment contact. An additional seven gold occurrences are located on or adjacent to the volcanic-sediment contact in the area between Neepawa Island and Ruby Island.

The Burnthut Island occurrence is within quartz veins on the sheared content of the mafic volcanics and quartz porphyry.

In all the gold occurrences within or adjacent to the Golden Range Resources property, gold is associated with pyrite, carbonatization and/or shearing. These features suggest that geophysics may be a useful tool in discovering extensions and/or additional zones of gold mineralization.

LINE CUTTING

Line cutting was completed during February and March, 1984. A total of 94.5 miles of line was cut. A baseline was established through the center of the property in an east-west direction; section lines are located every 400 feet along the baseline with stations established at 100 foot intervals along all lines.

SURVEY EQUIPMENT AND PROCEDURES

The Very Low Frequency Electromagnetic (VLF-EM) survey was carried out utilizing a Geonics EM-16, operating at a frequency of 24.0 kHz utilizing the Cutler, Maine (NAA) transmission station. Readings of both Inphase and Quadrature were taken every 100 feet, with an accuracy of 1% on both.

A total of 88.41 miles of line were surveyed with the VLF-EM survey.

A total of 94.5 miles of line were surveyed with the magnetic survey.

The magnetometer utilized was a Geometrics G-816 proton precession magnetometer measuring the total magnetic field. Readings were taken every 100 feet.

The intersection of the section lines on the base line served as a base station for monitoring diurnal drift. This method allows readings to be taken and corrected with an accuracy of one gamma.

SURVEY EQUIPMENT AND PROCEDURES (Cont'd)

The magnetic data is presented as contoured plan maps. (Back Pocket).

The VLF-EM data is presented as profiled plan maps. (Back Pocket)

DISCUSSION OF RESULTS

The Very Low Frequency Electromagnetic (VLF-EM) survey detected 45 anomalies.

The VLF-EM anomaly summary table summarizes the anomalies and rates their priority for follow-up. The anomalies break down into the following priorities:

PRIORITY 1	Highest priority, diamond drilling recommended	11
PRIORITY 2	Moderate priority, follow-up recommended contingent upon results of Priority 1, prospecting, etc.	23
PRIORITY 3	No follow-up recommended due to property position, poor geophysical response, poor geological correlation.	10

The Priority 1 selections are based upon the geophysical correlation with known gold-bearing structures or stratigraphy. The most obvious correlation being that of the volcanic-sediment contact which is known to be auriferous at three locations between Neepawa Island and Ruby Island. The contact is primarily overlain by Minnitaki Lake. The upper section of the volcanics, within 500 feet of the contact, also hosts the historic showings on Neepawa Island. VLF-EM features which either trend toward or across other gold occurrences are also rated Priority 1 targets.

VLF - EM ANOMALY SUMMARY

<u>ANOMALY</u>	<u>LENGTH</u>	<u>MIN.DIST</u> <u>PEAK-PEAK</u>	<u>MAX.DEFL.</u> <u>PEAK-PEAK</u>	<u>DEPTH</u>	<u>QUAD</u>	<u>MAG.</u>	<u>AEM</u>	<u>PRIORITY</u>	<u>CONCLUSION</u>
<u>SHEET 1</u>									
A	4 lines	300'	50	mod.	x-over	high-low contact	4 - 13 ppm 2 mho	1	On or proximal to a volcanic- sediment contact - D.D.H. recommended
B	4 lines	200'	102	shallow	x-over	--	--	3	In sediments
C	3 lines	200'	42	mod.	x-over	--	--	3	In sediments
D	4 lines	400'	45	deep	reverse x-over	high-low contact	6 ppm 1 mho	2	Same feature as A - drilled previous Contingent upon A
E	3 lines	100'	65	shallow	x-over	low	hi-freq - 3 ppm	2	Proximal to volcanic-sediment contact & Au occurrence - should prospect - drilled previously
F	7 lines	300'	151	mod.	--	--	--	1	Proximal to Au occurrence D.D.H. recommended
<u>SHEET 2</u>									
G	8 lines	300'	151	mod.	reverse x-over	flanks hi	--	2	Contingent upon F - prospecting
H	10 lines	100'	92	shallow	x-over	mag hi	low freq - 8 ppm	1	Proximal to Au occurrence - D.D.L44E
I	3 lines	200'	42	mod.	x-over	flanks mag low	low freq -12 ppm	2	Contingent on J
J	3 lines	300'	70	mod.	--	mag low	--	1	Proximal to Au occurrence - D.D.
K	6 lines	100'	89	shallow	reverse x-over	mag low	hi freq - 10 ppm	2	Prospect
L	11 lines	100'	111	shallow	reverse x-over	mag low	hi freq - 12 ppm	2	Prospect - D. D.

VLF - EM ANOMALY SUMMARY

PAGE 2

<u>ANOMALY</u>	<u>LENGTH</u>	<u>MIN.DIST PEAK-PEAK</u>	<u>MAX.DEFL. PEAK-PEAK</u>	<u>DEPTH</u>	<u>QUAD</u>	<u>MAG.</u>	<u>AEM</u>	<u>PRIORITY</u>	<u>CONCLUSION</u>
<u>SHEET 2</u>									
M	3 lines	100'	51	mod.	reverse	mag hi x-over	hi freq - 10 ppm	1	Proximal and along strike from Au occurrence - D.D. L20E
N	2 lines	400'	146	mod.	--	mag low	hi freq - 14 ppm	2	Contingent upon H
O	3 lines	300'	92	mod.	x-over	flanks mag hi	--	2	Contingent upon property position
P	3 lines	200'	63	mod.	x-over	--	--	3	On property boundary
Q	5 lines	200'	29	shallow	x-over	hi - low contact	--	2	Check property situation Volcanic-sediment contact proximal to Au occurrence - D. D.
R	3 lines	100'	11	mod.	x-over	hi low contact	--	2	Contingent upon Q
S	5 lines	300'	97	mod.	--	--	--	2	Check property situation - along strike from Au occurrence
T	3 lines	100'	63	shallow	x-over	flanks low	--	2	Property situation - proximal to Au occurrence
U	4 lines	300'	88	mod.	x-over	flanks hi	hi freq - 8 ppm	1	Close to volcanic-sediment D.D. previously with Au

VLF - EM ANOMALY SUMMARY

PAGE 3

<u>ANOMALY</u>	<u>LENGTH</u>	<u>MIN. DIST PEAK-PEAK</u>	<u>MAX. DEFL. PEAK-PEAK</u>	<u>DEPTH</u>	<u>QUAD</u>	<u>MAG.</u>	<u>AEM</u>	<u>PRIORITY</u>	<u>CONCLUSION</u>
<u>SHEET 2</u>									
V	3 lines	200'	18	deep	--	flanks hi	hi freq -10 ppm	1	Proximal to volcanic-sediment contact - in sediments
W	13 lines	400'	101	mod.	x-over	x-cuts	hi freq - 8 ppm	1	Fault zone - proximal to Au occurrence
X	12 lines	300'	75	mod.	x-over	x-cuts	hi freq -30 ppm	2	Fault zone - proximal to Au occurrence - contingent on W
Y	4 lines	400'	41	deep	--	flanks hi	hi freq -17 ppm	1	Volcanic-sediment contact - along strike from Au occurrence
Z	5 lines	400'	85	mod.	reverse x-over	low	hi freq -15 ppm	2	Unknown geology - prospecting
AB	14 lines	100'	38	mod.	x-over	low	--	2	Unknown geology - prospecting
AC	10 lines	500'	81	deep	reverse x-over	flanks low	hi freq -18 ppm	2	Entirely in lake - unknown but well located - relative to volcanic-sediment contact - contingent on AI
AD	3 lines	100'	10	mod.	--	low	hi freq -15 ppm	3	Entirely in lake
AE	5 lines	200'	42	mod.	reverse x-over	flanks hi	hi freq -17 ppm	2	Entirely in lake

VLF - EM ANOMALY SUMMARY

PAGE 4

<u>ANOMALY</u>	<u>LENGTH</u>	<u>MIN.DIST PEAK-PEAK</u>	<u>MAX.DEPL. PEAK-PEAK</u>	<u>DEPTH</u>	<u>QUAD</u>	<u>MAG.</u>	<u>AEM</u>	<u>PRIORITY</u>	<u>CONCLUSION</u>
<u>SHEET 2</u>									
AF	6 lines	100'	87	shallow	x-over	low	hi freq - 3 ppm	3	Geology, prospecting
AG	7 lines	400'	107	deep	reverse x-over	x-cuts	--	3	Probable fault zone
AH	5 lines	400'	72	mod.	x-over	flanks hi	--	3	Unknown
AI	7 lines	400'	66	mod.	--	--	hi freq - 8 ppm	1	Proximal to volcanic-sediment contact in volcanics - D.D. L32W
AJ	4 lines	100'	19	mod.	x-over	x-cuts	--	3	Geology, prospecting
AK	5 lines	200'	119	shallow	x-over	between hi - lo	--	2	Prospecting
AL	2 lines	100'	25	shallow	x-over	x-cuts	--	3	Prospecting - possible fault
AM	3 lines	100'	64	shallow	reverse x-over	low	hi freq - 7 ppm	2	Prospecting
AN	4 lines	400'	81	deep	reverse x-over	flanks hi - lo	hi freq - 3 ppm	3	Entirely in lake
AO	3 lines	200'	97	mod.	reverse x-over	x-cuts	hi freq - 4 ppm	2	Prospecting
AP	5 lines	400'	85	deep	reverse x-over	high	hi freq - 7 ppm	3	Entirely in lake
AQ	5 lines	400'	113	mod.	x-over	--	--	2	Prospect Burnthut Island
AR	3 lines	200'	66	mod.	reverse x-over	high	hi freq - 8 ppm	2	Contingent on prospecting and AS
AS	4 lines	100'	51	mod.	--	flanks hi	hi freq - 7 ppm	1	Proximal to volcanic-sediment- porphyry contact
AT	4 lines	400'	11	deep	reverse x-over	flanks hi		2	Contingent on AS and additional follow-up

DISCUSSION OF RESULTS (Cont'd)

The magnetic survey was successful in delineating the volcanic-sediment contact due to the good magnetic contrast between the low susceptibility of the sediments and the relatively high magnetic susceptibility of the volcanics. The eastern contacts of the sediments, volcanics and porphyrys are much less distinct and unrecognizable from the magnetic data.

A more detailed discussion of the Priority 1 anomaly selections follows:

ANOMALY A This anomaly lies proximal or on the volcanic-sediment contact as defined by the magnetic survey and the geological data available on Ruby Island. This feature lies approximately 150 feet south of the gold occurrence on Ruby Island. Due to the favourable location of this anomaly relative to both a gold occurrence and favourable stratigraphy, diamond drilling is recommended.

ANOMALY F This anomaly represents an excellent geophysical response lying 200 feet north of a gold occurrence. The entire anomaly is overlain by water, while the gold occurrence is on the edge of an island. Diamond drill testing is recommended.

DISCUSSION OF RESULTS (Cont'd)

ANOMALY H This anomaly coincides with a good but relatively untested gold occurrence on Neepawa Island. The anomaly has an excellent geophysical response. An excellent diamond drill target.

ANOMALY J This anomaly has a good geophysical response; is along strike from a gold occurrence and 100 feet south of another gold occurrence. The anomaly is entirely overlain by water. Diamond drill testing is recommended.

ANOMALY M This anomaly lies along strike from the historic Neepawa Island Au occurrence and unlike other anomalies along strike is wholly within the Golden Range property. These factors along with the good geophysical response produce an excellent diamond drill target.

ANOMALY U This anomaly lies proximal to the volcanic-sediment contact in a location where gold values have been found in previous drilling. This target represents an excellent environment for gold mineralization, proximal to known mineralization along with a coincident geophysical response. An excellent diamond drill target.

ANOMALY V The interesting aspect of this anomaly is its unique nature of lying just above the volcanic-sediment contact within the sediments. This is a relatively untested environment, yet is quite favourable for gold potential. The geophysical response is weak, possibly representing a deep seated feature; an excellent drill target.

DISCUSSION OF RESULTS (Cont'd)

ANOMALY W This anomaly appears to represent a probable fault and/or shear zone, wholly overlain by water, and proximal to Au occurrences. The good geophysical response represents an excellent drill target.

ANOMALY Y This anomaly lies proximal to the volcanic-sediment contact, along strike from a known Au occurrence, wholly overlain by water, good geophysical response - an excellent drill target.

ANOMALY AI This anomaly is in an unknown area of the volcanic-sediment contact as it is entirely overlain by water from Neepawa Island to Burnthut Island, a distance of almost four miles. This anomaly lies approximately between the two islands, therefore a good location to test this known auriferous environment at an entirely untested location.

ANOMALY AS This anomaly lies in an area of unknown geology and gold potential. It appears to lie on a volcanic-sediment - porphyry contact area. A similar environment hosts two gold occurrences on Burnthut Island. An excellent drill target.

REFERENCES

- 1) Assessment Files - Patricia Mining Division, Sioux Lookout, Ontario.
- 2) Guy, K. W. - 1983 - Golden Range Resources Inc., Summary Report on Exploration - 1983.
- 3) Ontario Geological Survey - 1982 - Airborne Electromagnetic and Total Intensity Magnetic Survey, Sioux Lookout Area, District of Kenora - by Aerodat Ltd.

STATEMENT FOR ASSESSMENT WORK

I, Kenneth Guy, certify to the following:

A total of 94.5 miles of line cutting was completed during February and March, 1984.

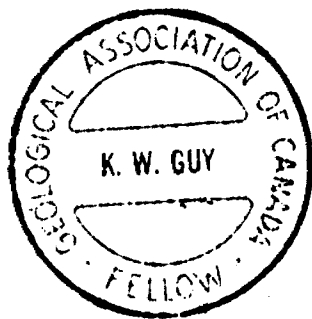
A total of 88.41 miles of line were surveyed with the VLF-EM survey.

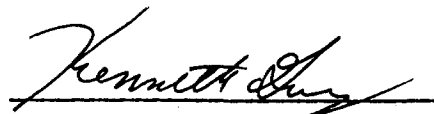
A total of 94.5 miles of line were surveyed with the magnetic survey.

The claims are owned by Golden Range Resources Inc. and include the following:

Pa 650239 - 245 inclusive	
Pa 652801 - 803	"
Pa 741551 - 578	"
Pa 741580 - 583	"
Pa 741585 - 600	"
Pa 742301 - 321	"
Pa 697342, 343	

Total 81 claims




Kenneth Guy, Geologist

CERTIFICATE

I, the undersigned, Kenneth Guy, residing at 180 Nadine St., South Porcupine, Ontario, graduated with a Bachelor of Applied Science, degree in Earth Science - Geology from the University of Waterloo, Waterloo, Ontario in 1978.

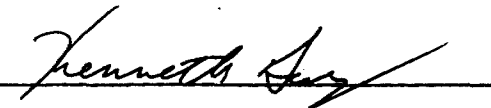
I have been employed in the field of Geology since graduation in 1978.

I am a fellow of the Geological Association of Canada.

I do not hold, nor do I expect to receive an interest of any kind in these claims held by Golden Range Resources Inc., nor in any other mining claims they may have.



Timmins, Ontario
September, 1984


Kenneth Guy, Geologist



Mining Lands Section

File No 2.7214

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

1 approval 84-106

1 notice of intent 84-105

LD

Doug

Signature of Assessor

17/10/84

Date

1984 11 16

Your File: 84-105
Our File: 2.7214

Mining Recorder
Ministry of Natural Resources
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

RE: Notice of Intent dated October 26, 1984.
Geophysical (Electromagnetic & Magnetometer)
Survey on Mining Claims PA 650239 et al in
the Area of Parnes Lake.

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
M7A 1W3
Phone: (416) 965-6918

D. Isherwood:sc

cc: Golden Range Resources Inc
189 Preston Street
Timmins, Ontario
P4N 3N4

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

cc: Resident Geologist
Sioux Lookout, Ontario



Ministry of
Natural
Resources

**Technical Assessment
Work Credits**

File
2.7214

Date
1984 10 26

Mining Recorder's Report of
Work No. **84-105**

Recorded Holder
GOLDEN RANGE RESOURCES INC

Township or Area
PARNES LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 40 days Magnetometer _____ 20 days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	PA 650239 650241 to 245 inclusive 652801 to 803 inclusive 741551 to 578 inclusive 741580 to 583 inclusive 741585 to 600 inclusive 742301 to 321 inclusive

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

40 DAYS ELECTROMAGNETIC
10 DAYS MAGNETOMETER

PA 650240

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:



Ministry of
Natural
Resources

Nov. 12/84

1984 10 26

Your File: 84-105
Our File: 2.7214

Mining Recorder
Ministry of Natural Resources
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

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

R.D. Isherwood:mc

Encls.

cc: Golden Range Resources Inc
189 Preston Street
Timmins, Ontario
P4N 3N4

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



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1984 10 26

2.7214/84-105

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.

Sept. 23rd

Ontario

Mining Act

Type of Survey(s) Geophysical Survey	Township or Area Parnes Lake Area G2164
Claim Holder(s) Golden Range Resources Inc.	Prospector's Licence No. T-1324
Address 189 Preston Street, Timmins, Ontario P4N 3N4	
Survey Company Mid-Canada Exploration Services Limited	Date of Survey (from & to) 15 Day, 01 Mo., 84 Yr. 24 Day, 07 Mo., 84 Yr.
Name and Address of Author (of Geo-Technical report) Kenneth Guy, 180 Nadine Street, Porcupine Mall Sub, Porcupine, Ontario	
Total Miles of line Cut 81.4	

Credits Requested per Each Claim in Columns at right		Days per Claim
Special Provisions	Geophysical	
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
Pa	650239		Pa	741564	
	650240			741565	
	650241			741566	
	650242			741567	
	650243			741568	
	650244			741569	
	650245			741570	
	652801			741571	
	652802			741572	
	652803			741573	
	741551			741574	
	741552			741575	
	741553			741576	
	741554			741577	
	741555			741578	
	741556			741580	
	741557			741581	
	741558			741582	
	741559			741583	
	741560			741585	
	741561			741586	
	741562			741587	
	741563			741588	

PATRICIA MINING DIV.
RECEIVED
JUL 25 1984
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

Expenditures (excludes power stripping)	
Type of Work Performed	
Performed on Claim(s)	
Calculation of Expenditure Days Credits	
Total Expenditures	Total Days Credits
\$ <input type="text"/>	÷ 15 = <input type="text"/>
Instructions Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.	

Pa. 650239

For Office Use Only		Total number of mining claims covered by this report of work
Total Days Cr. Recorded	Date Recorded	<input type="text"/>
4740	July 25, 1984	
Date Approved as Recorded	Mining Recorder	
See revised statement	<i>[Signature]</i>	
	Branch Director	

Date	Recorded Holder or Agent (Signature)
July 24/84	<i>[Signature]</i>

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying	
Denis Laforest, 189 Preston Street, Timmins, Ontario P4N 3N4	
Date Certified	Certified by (Signature)
July 24/84	<i>[Signature]</i>



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

2.7214

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

Mining Act

Type of Survey(s) Geophysical Survey	Township or Area Parnes Lake Area
Claim Holder(s) Golden Range Resources Inc.	Prospector's Licence No. T-1324
Address 189 Preston Street, Timmins, Ontario P4N 3N4	
Survey Company Mid-Canada Exploration Services Limited	Date of Survey (from & to) 15 Day 01 Mo. 84 Yr. 24 Day 07 Mo. 84 Yr.
Total Miles of line Cut 81.4	
Name and Address of Author (of Geo-Technical report) Kenneth Guy, 180 Nadine Street, Porcupine Mall Sub, Porcupine, Ontario	

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)		
Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
Pa	741589	
	741590	
	741591	
	741592	
	741593	
	741594	
	741595	
	741596	
	741597	
	741598	
	741599	
	741600	
	742301	
	742302	
	742303	
	742304	
	742305	
	742306	
	742307	
	742308	
	742309	
	742310	
	742311	

PATRICIA MINING DIV
RECEIVED
JUL 25 1984
A.M. 7:18 10:11 12:11 2:18 4:15 P.M.

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

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

Total number of mining claims covered by this report of work. **79**

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
		<i>[Signature]</i>
Date Approved as Recorded	Branch Director	
	<i>See revised statement</i>	

Date **July 24/84** Recorded Holder or Agent (Signature) *[Signature]*

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
Denis Laforest, 189 Preston Street, Timmins, Ontario P4N 3N4

Date Certified **July 24/84** Certified by (Signature) *[Signature]*

1984 10 10

Your File:
Our File: 2.7214

Mining Recorder
Ministry of Natural Resources
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

We received reports and maps on September 24, 1984 submitted for a Geophysical (Electromagnetic & Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims PA 650239 et al in the Area of Parnes Lake.

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 soon as possible.

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. Barr:sc

cc: Golden Range Resources Inc
c/o Mid-Canada Exploration Services Ltd
189 Preston Street
Timmins, Ontario
P4N 3N4
Attn: Claudia Hanninen.



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) GEOPHYSICAL

Township or Area PARNES LAKE AREA

Claim Holder(s) GOLDEN RANGE RESOURCES INC.

Survey Company MID-CANADA EXPLORATION SERVICES LIMITED

Author of Report KENNETH GUY

Address of Author 180 NADINE ST., PORCUPINE MALL SUB,

SOUTH PORCUPINE, ONTARIO
Covering Dates of Survey Jan. 15/84 to July 24/84
(linecutting to office)

Total Miles of Line Cut 94.5 miles

MINING CLAIMS TRAVERSED
List numerically

See attached list
(prefix) (number)

**SPECIAL PROVISIONS
CREDITS REQUESTED**

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical

DAYS
per claim.

-Electromagnetic 40

-Magnetometer 20

-Radiometric _____

-Other _____

Geological _____

Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Sept. 21/84 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.5778

Previous Surveys

File No. Type Date Claim Holder

File No.	Type	Date	Claim Holder

RECEIVED

SEP. 21 1984

MINING LANDS SECTION

TOTAL CLAIMS 81

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations 4990 Number of Readings 4990
Station interval 100 feet Line spacing 400 feet
Profile scale _____
Contour interval _____

MAGNETIC

Instrument Geometrics G-816
Accuracy - Scale constant ± 10 gammas
Diurnal correction method baseline corrections
Base Station check-in interval (hours) 1 hour
Base Station location and value L0+00, 0+00 60,853 gammas

ELECTROMAGNETIC

Instrument Geonics EM16
Coil configuration _____
Coil separation _____
Accuracy ± 1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency Cutler, Maine - NAA - 24.0 kHz
(specify V.L.F. station)
Parameters measured In-Phase, Quadrature

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

RECEIVED

INDUCED POLARIZATION RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

LIST OF CLAIMS

MINING CLAIMS TRAVERSED

Pa 650239	Pa 741571	Pa 742303
650240	741572	742304
650241	741573	742305
650242	741574	742306
650243	741575	742307
650244	741576	742308
650245	741577	742309
Pa 652801	741578	742310
652802	Pa 741580	742311
652803	741581	742312
Pa 741551	741582	742313
741552	741583	742314
741553	Pa 741585	742315
741554	741586	742316
741555	741587	742317
741556	741588	742318
741557	741589	742319
741558	741590	742320
741559	741591	742321
741560	741592	Pa 697342
741561	741593	697343
741562	741594	
741563	741595	
741564	741596	
741565	741597	
741566	741598	
741567	741599	
741568	741600	
741569	Pa 742301	
741570	742302	

MID-CANADA EXPLORATION SERVICES LIMITED

(705) 264-7043

189 Preston St., TIMMINS, ONTARIO P4N 3N4

September 21, 1984

Mr. F. W. Matthews
Ontario Ministry of Natural Resources
Room W1617, Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

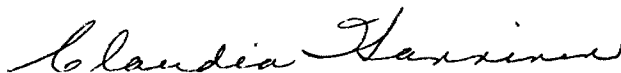
Re: Mining Claims Pa 650239 et al.,
Parnes Lake Area
Patricia Mining Division

Dear Sir:

Enclosed are two copies of a report and maps concerning geophysical magnetic and electromagnetic surveys which were carried out on 81 mining claims located in Parnes Lake Area, Patricia Mining Division.

A report of work has been filed with Mr. Hanson, Mining Recorder in the Patricia Mining Division.

Yours truly,



Claudia Hanninen

Enclosures

RECEIVED

SEP 21 1984

MINING LANDS SECTION

84-105

2.7214

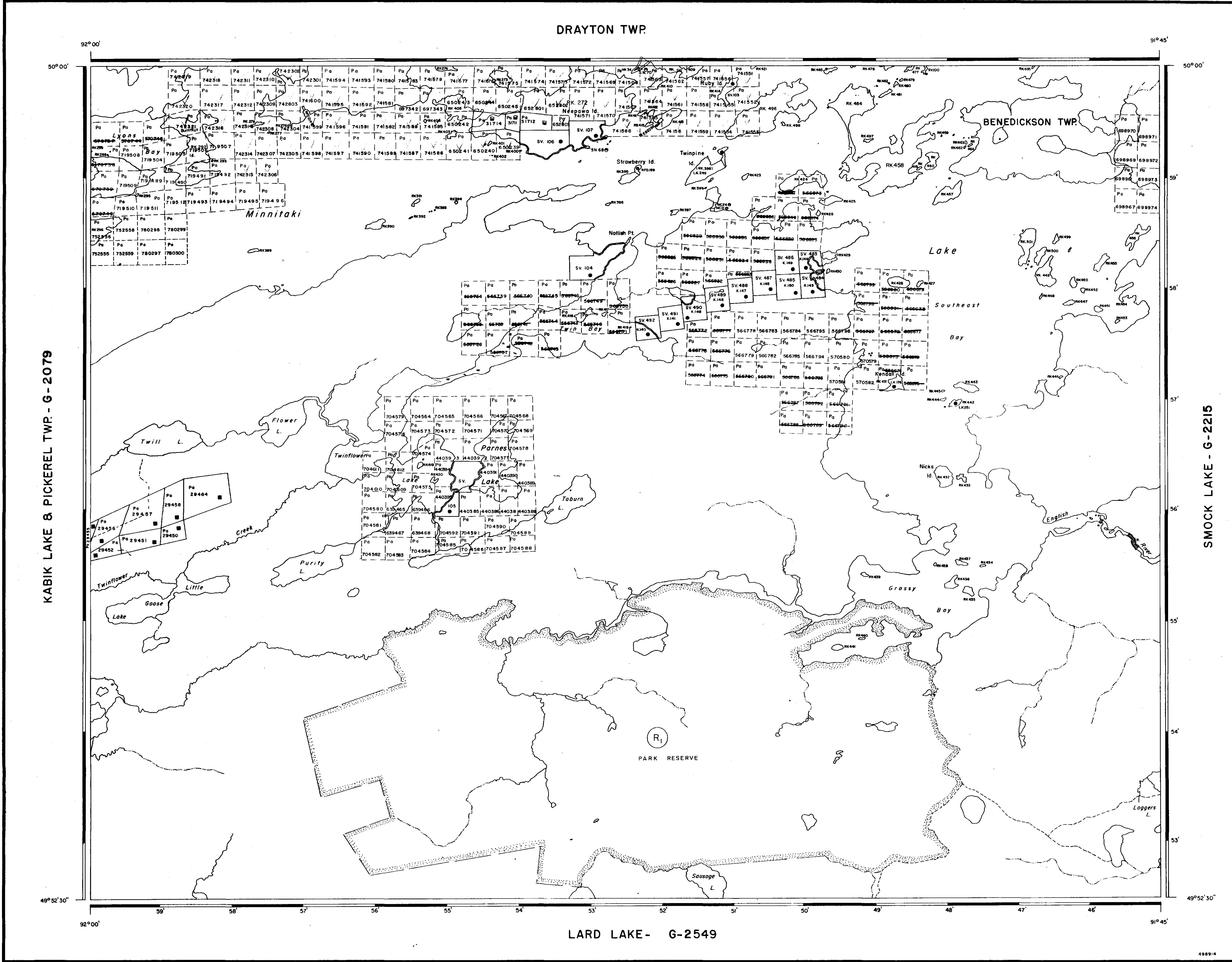
650-39	✓	✓	741 566	✓	✓	741 594	✓	✓
240	✓	2/4	567	✓	✓	595	✓	✓
241	✓	✓	568	✓	✓	596	✓	✓
242	✓	✓	569	✓	✓	597	✓	✓
243	✓	✓	570	✓	✓	598	✓	✓
244	✓	✓	571	✓	✓	599	✓	✓
245	✓	✓	572	✓	✓	600	✓	✓
652 801	✓	✓	573	✓	✓	742 301	✓	✓
802	✓	✓	574	✓	✓	302	✓	✓
803	✓	✓	575	✓	✓	303	✓	✓
741 551	✓	✓	576	✓	✓	304	✓	✓
552	✓	✓	577	✓	✓	305	✓	✓
553	✓	✓	578	✓	✓	306	✓	✓
554	✓	✓	741 580	✓	✓	307	✓	✓
555	✓	✓	581	✓	✓	308	✓	✓
556	✓	✓	582	✓	✓	309	✓	✓
557	✓	✓	583	✓	✓	310	✓	✓
558	✓	✓	741 585	✓	✓	311	✓	✓
559	✓	✓	586	✓	✓	312	✓	✓
560	✓	✓	587	✓	✓	313	✓	✓
561	✓	✓	588	✓	✓	314	✓	✓
562	✓	✓	589	✓	✓	315	✓	✓
563	✓	✓	590	✓	✓	316	✓	✓
564	✓	✓	591	✓	✓	317	✓	✓
565	✓	✓	592	✓	✓	318	✓	✓
			593	✓	✓	319	✓	✓
						320	✓	✓
						321	✓	✓

G-5164

BARNES LAKE

G-5164

TRIM LINE



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	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
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. 300, SEC. 45, SUBSEC. 1.

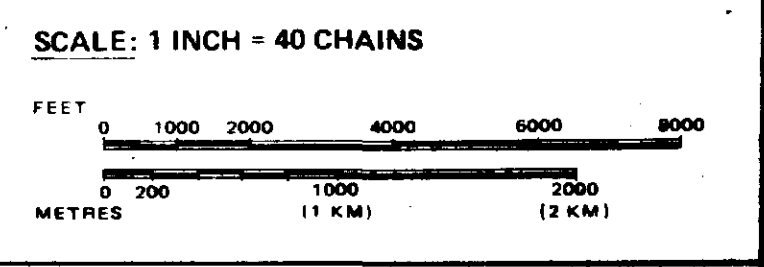
REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

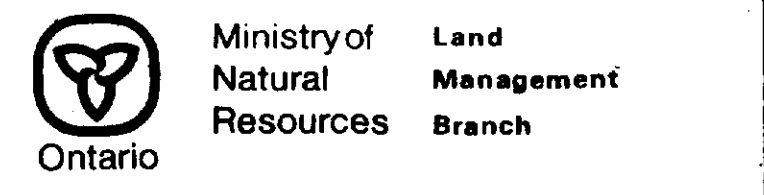
M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M+S - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC 36/70	13/73	23/73	M.R.O.	10038

DATE OF ISSUE
 OCT 16 1984
 Ministry of Natural Resources
 TORONTO



AREA
PARNES LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
 SIOUX LOOKOUT
 MINING DIVISION
 PATRICIA
 LAND TITLES / REGISTRY DIVISION
 KENORA



Date: MARCH, 1984
 Number: **G-2164**

DRAYTON TWP.

BENEDICKSON TWP.

KABIK LAKE & PICKEREL TWP. - G-2079

SMOCK LAKE - G-2215

LARD LAKE - G-2549

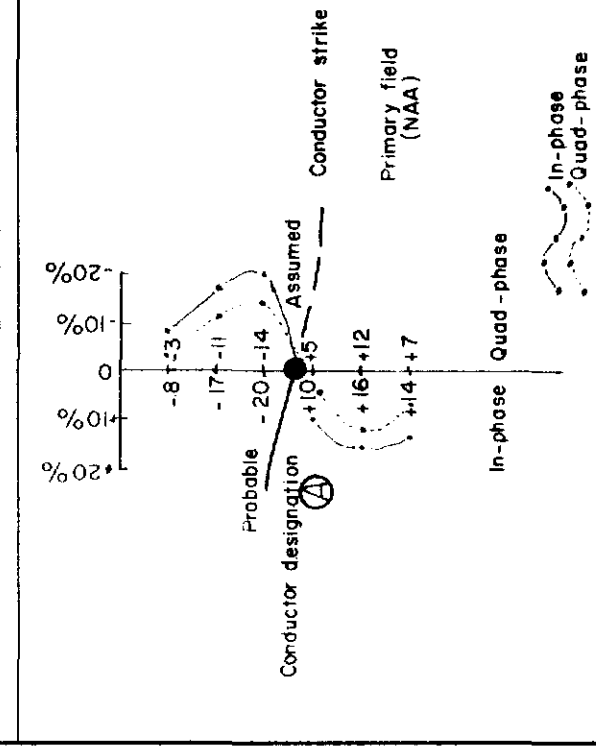
TRIM LINE



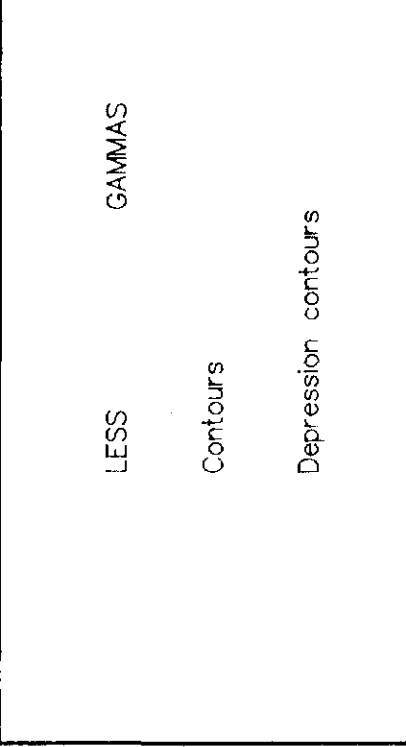
LEGEND

GEOLOGICAL

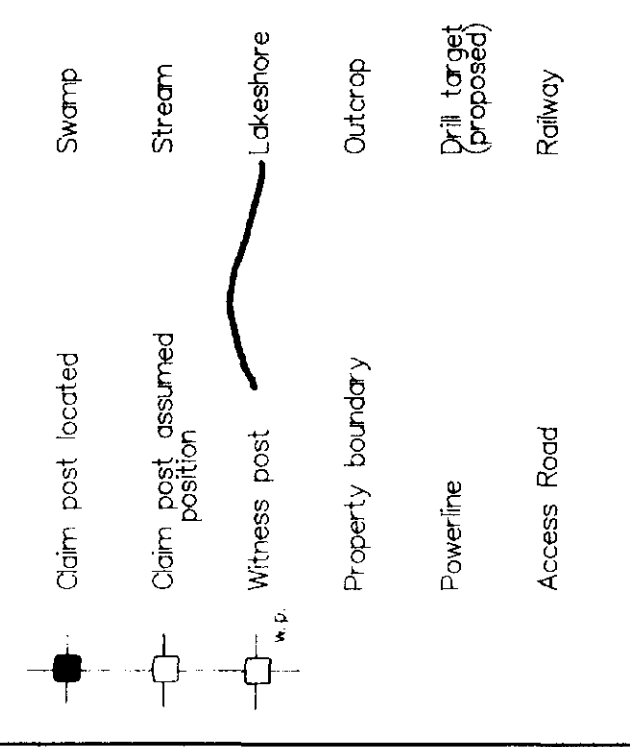
VLF SURVEY



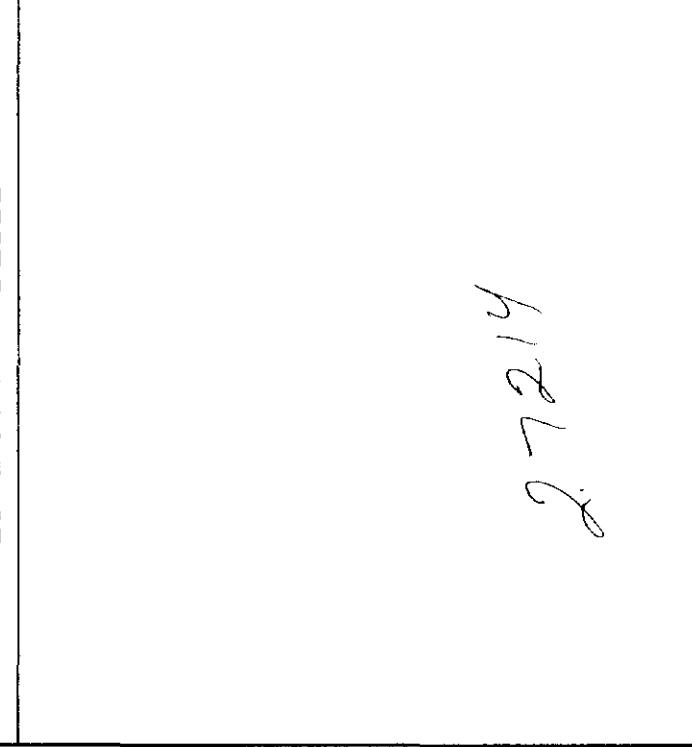
MAGNETIC SURVEY



TOPOGRAPHIC



INDEX MAP

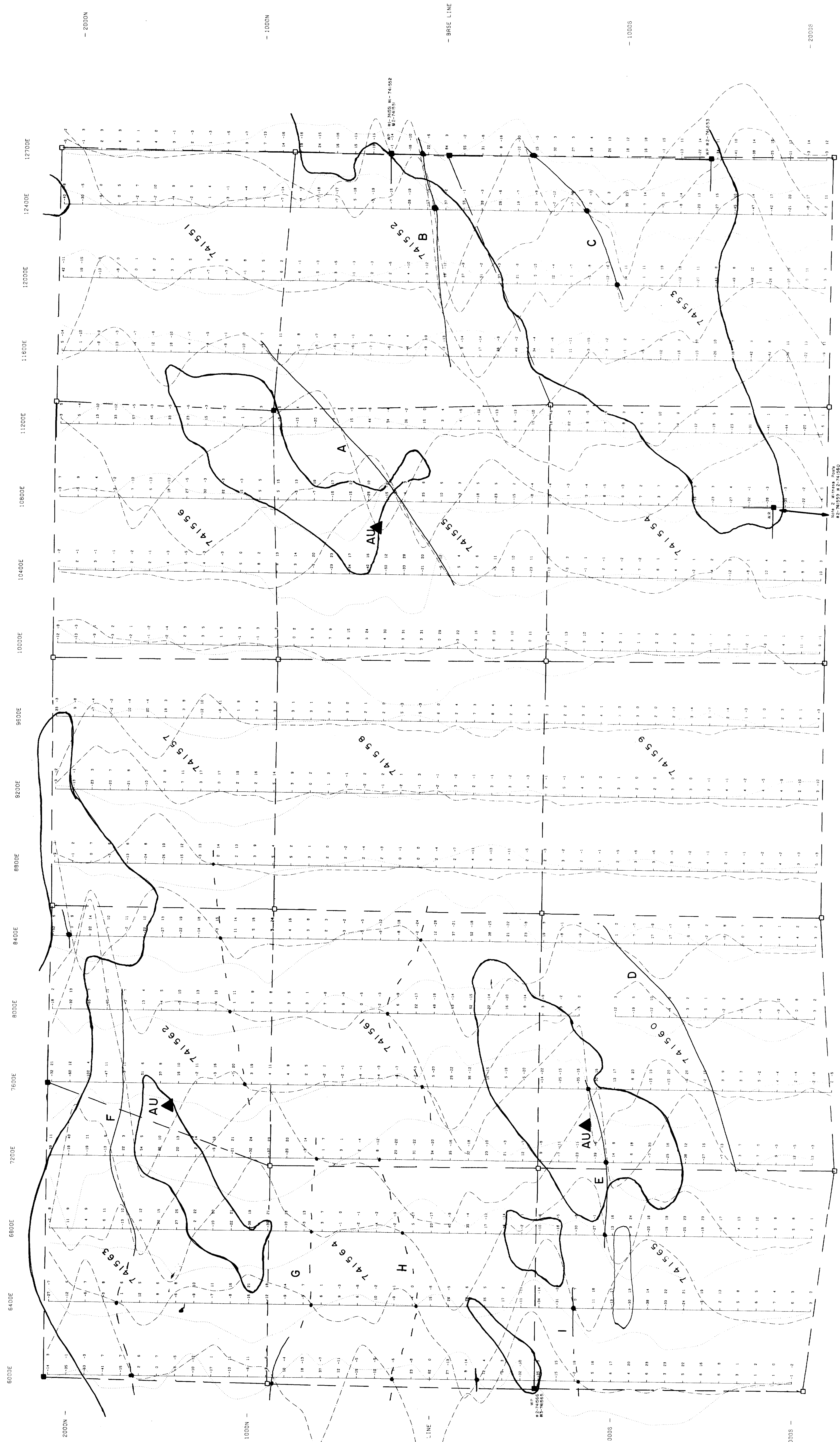
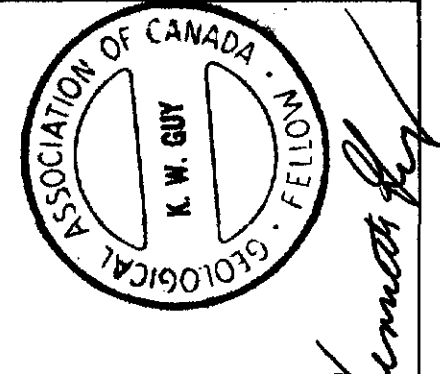


MID-CANADA EXPLORATION SERVICES LIMITED

GOLDEN RANGE RESOURCES

VLF

Operator(s):
 Interpreted by: NEEPAWA
 Drawn by: ISLAND
 Approved by:
 Revised by:
 SCALE: 1" = 200'
 Drawing No.: 1 OF 4



LEGEND
GEOLOGICAL

VLF SURVEY

MAGNETIC SURVEY

LESS 59000 GAMMAS

Contours
Depression contours

TOPOGRAPHIC

- Swamp
- Stream
- Marsh
- Wharves pier
- Property boundary
- Powerline
- Access Road
- Railway
- Outcrop
- 0-10 Meters (Proposed)

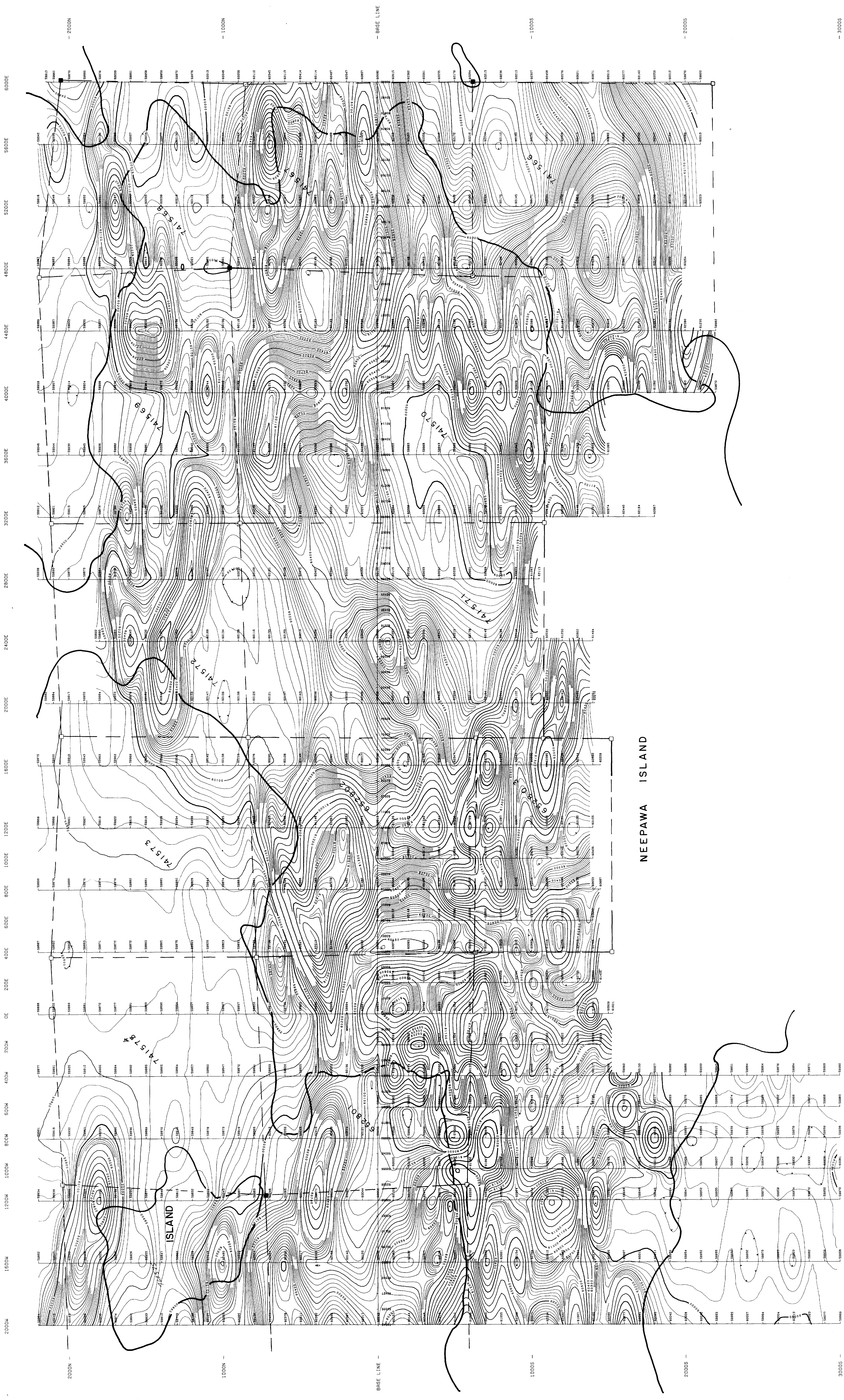
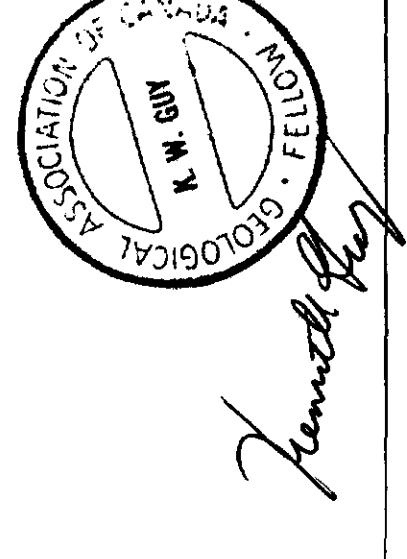
INDEX MAP

MID-CANADA
EXPLORATION SERVICES LIMITED
for
GOLDEN RANGE RESOURCES

MAGNETIC SURVEY

Operator(s)
Integrated by:
Drawn by:
Approved by:
Reviewed by:
SCALE
Drawing No.
2 OF 4

27214



LEGEND
GEOLOGICAL

VLF SURVEY

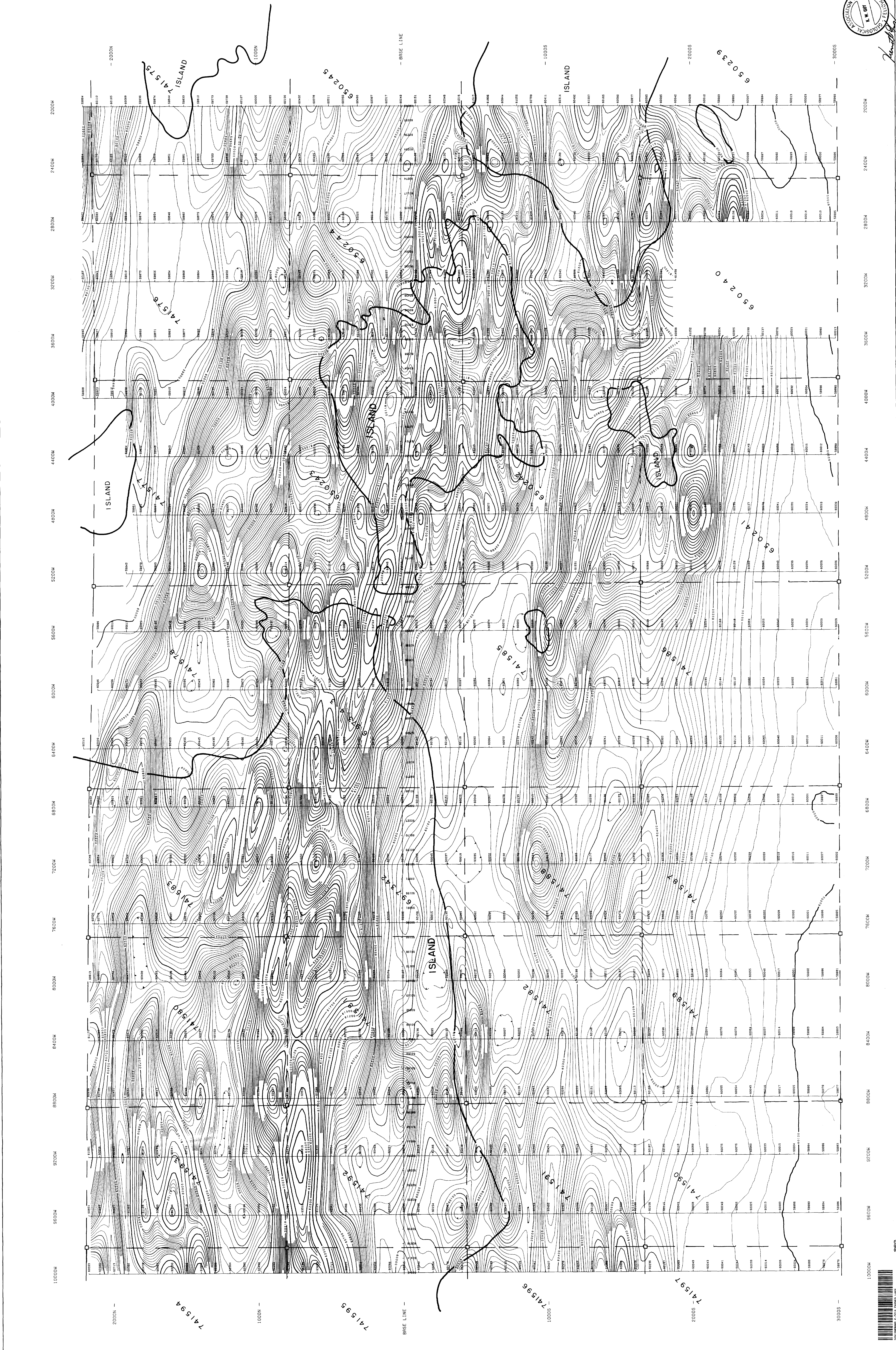
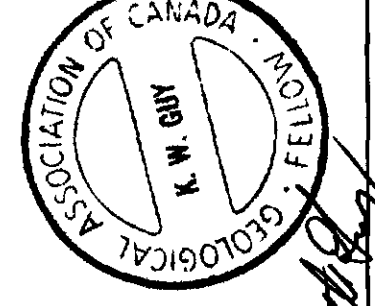
MAGNETIC SURVEY

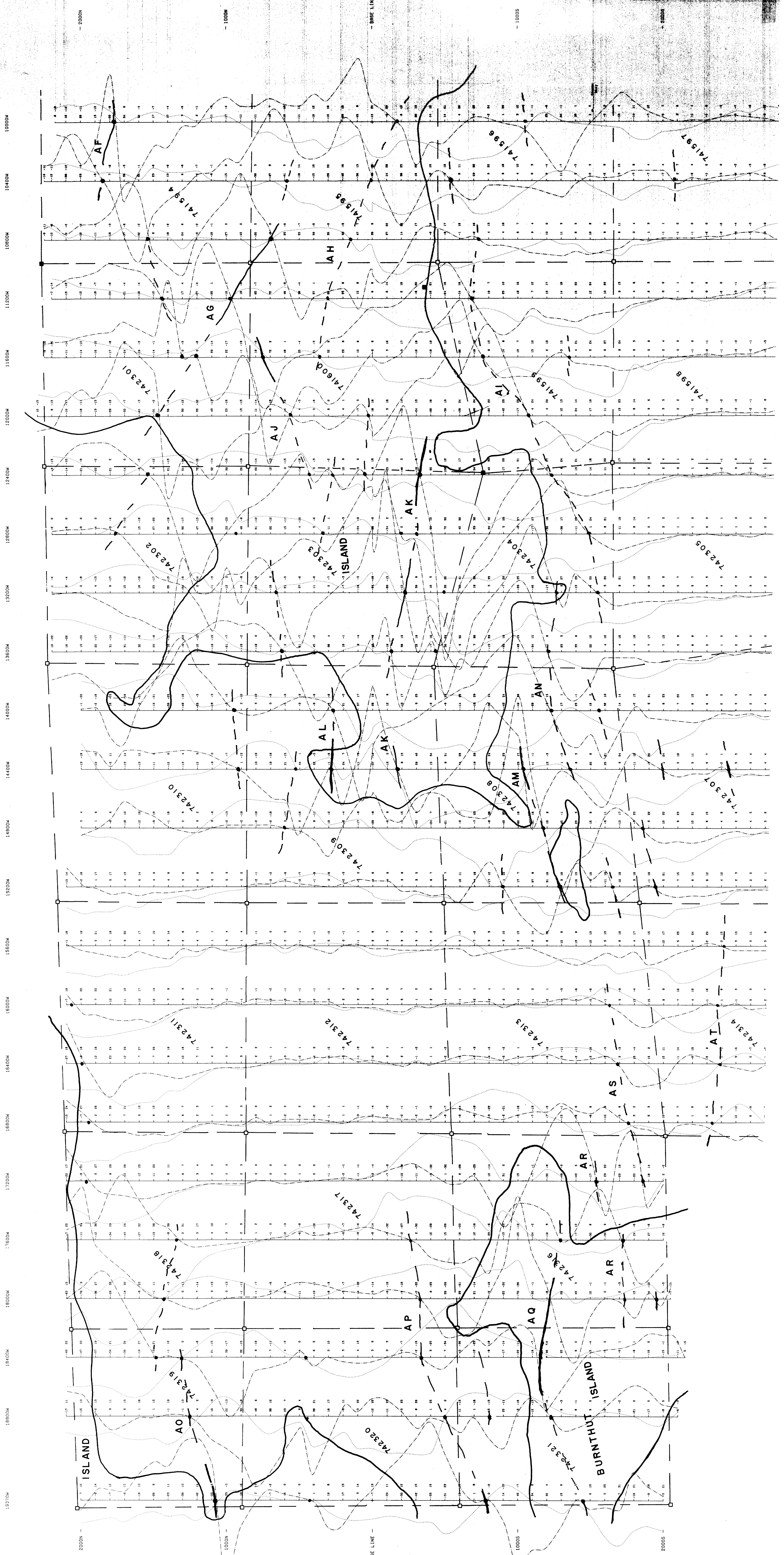
TOPOGRAPHIC

INDEX MAP

27214
MID-CANADA
EXPLORATION SERVICES LIMITED
for
GOLDEN RANGE RESOURCES
MAGNETIC SURVEY

Operator(s):
Drawn by:
Approved by:
Revised by:
Scale:
1" = 200'
Project:
NEEPAWA
ISLAND
Drawing No.
5 OF 4



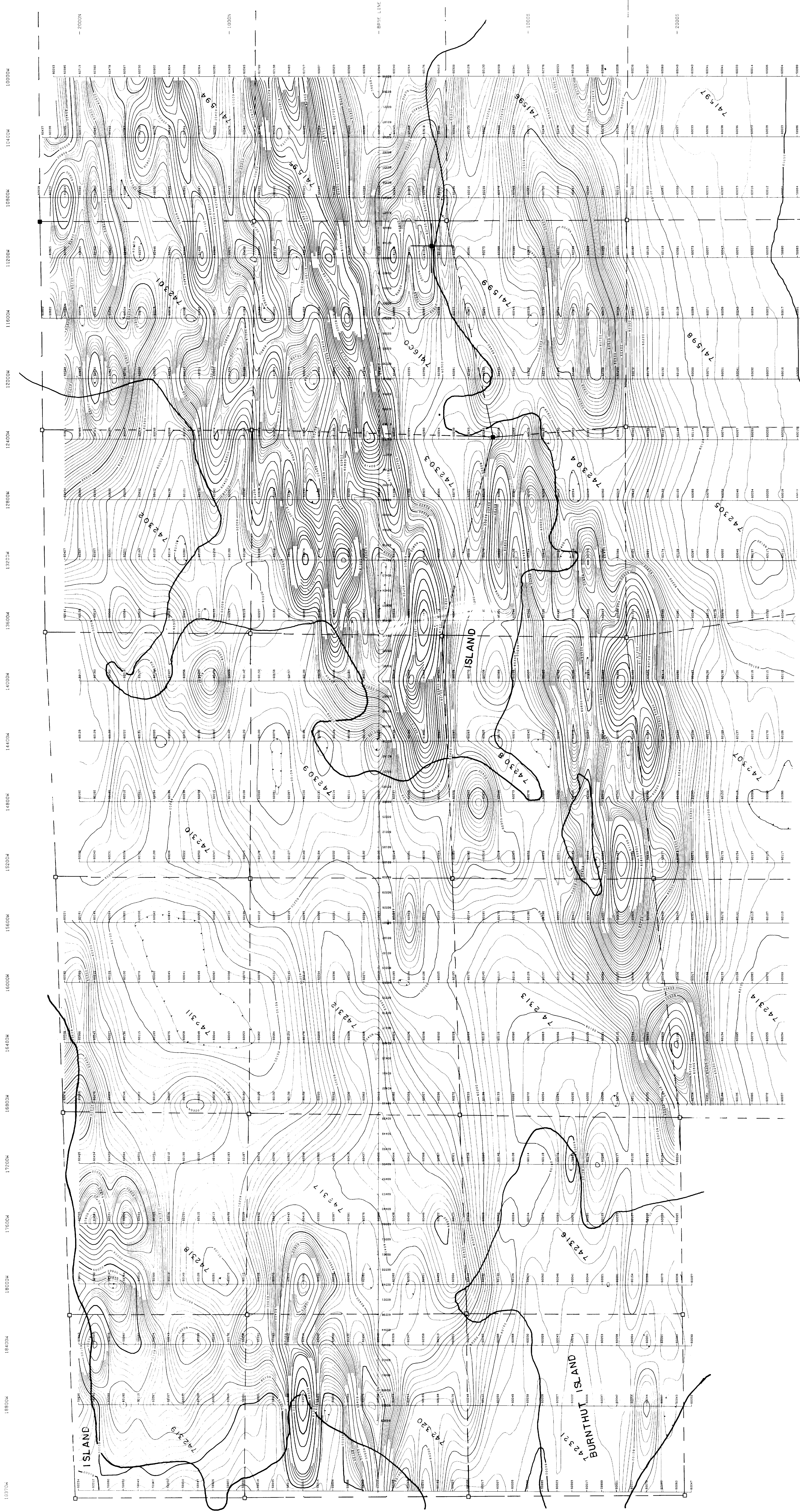


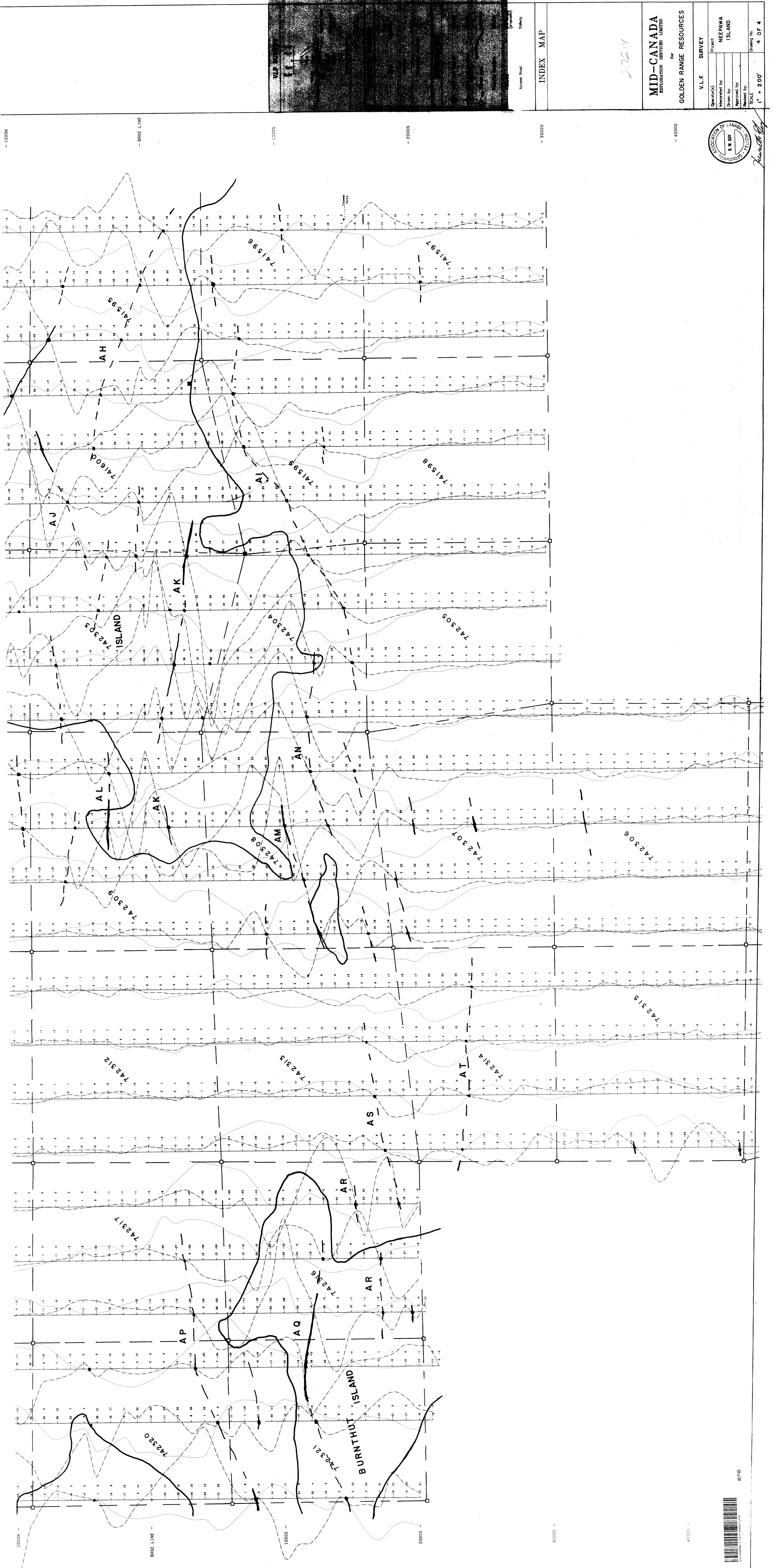
LEGEND
GEOLOGICAL

VLF SURVEY

MAGNETIC SURVEY

TOPOGRAPHIC





1000N

BASE LINE

1000S

2000S

3000S

4000S

Access Road
Railway
(Proposed)

INDEX MAP

27214

MID-CANADA
EXPLORATION SERVICES LIMITED

for
GOLDEN RANGE RESOURCES

V.L.F. SURVEY

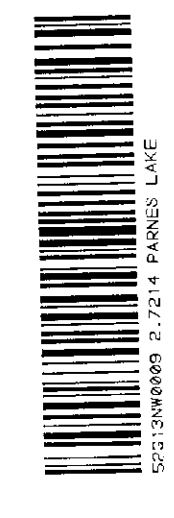
Project: NEEPAWA ISLAND

Drawn by: [blank]
Approved by: [blank]
Checked by: [blank]

Scale: 1" = 200'
Drawing No. 4 OF 4



Handwritten signature



270

