

2.7498

	E.M.	Mg	Gal.		E.M.	Mg	Gal.		E.M.	Mg	Gal.	
KRL-621437	✓	✓	✓	621446	0	0	3/4	621455	✓	✓	✓	
38	3/4	3/4	3/4	47	✓	✓	✓	56	1/4	O.K.	1/4	
39	✓	✓	✓	48	1/2	1/2	1/2	57	✓	✓	✓	
40	✓	✓	✓	49	✓	✓	✓	58	✓	✓	✓	
41	✓	✓	✓	50	✓	✓	✓	59	✓	✓	✓	
42	1/4	1/4	1/4	O.K.	51	✓	✓	✓	60	✓	✓	✓
43	✓	✓	✓	52	✓	✓	✓	61	O.K.	1/4	1/4	
44	✓	✓	✓	53	✓	✓	✓	621462	✓	✓	✓	
621445	✓	✓	✓	621454	✓	✓	✓					

O.K.



Ministry of
Natural
Resources

Technical Assessment
Work Credits

File
2.7498

Date
1984 12 14

Mining Recorder's Report of
Work No. 57-84

Recorded Holder
DURATION MINES LIMITED
WILSHIRE RESOURCES LIMITED

~~XXXXXXXXXX~~Area
Casumit Lake, Meen Lake, McVicar Lake and Skinner Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ 20 _____ days	KRL 621437
Magnetometer _____ 20 _____ days	621439 to 45 incl
Radiometric _____ days	621447
Induced polarization _____ days	621449 to 62 incl
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.	

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

10 days Electromagnetic and Magnetometer _____	5 days Electromagnetic & Magnetometer _____
KRL 621448	KRL 621438

No credits have been allowed for the following mining claims

<input checked="" type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> Insufficient technical data filed
KRL 621446	

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.



Ontario

Ministry of
Natural
Resources

Technical Assessment Work Credits

File
2.7498

Date
1984 12 14

Mining Recorder's Report of
Work No. 57-84

Recorded Holder
**DURATION MINES LIMITED
WILSHIRE RESOURCES LIMITED**

Township or Area
Casummit Lake, Meen Lake, McVicar Lake and Skinner Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 20 _____ 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.	KRL 621437 621439 to 45 incl 621447 621449 to 62 incl

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

10 days Geological _____	5 days Geological _____
KRL 621448	KRL 621438 621446

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:



In the matter of mining claims:

KRL 621437 to 62 inclusive

in the Area of Pickle Lake

On consideration of an application from the recorded holder, Duration Mines Ltd & Wilshire Resources Ltd
under Section 77 Subsection 22 of The Mining Act, I hereby order that the time for filing reports and plans in support of
Geophysical (Electromagnetic & Magnetometer) & Geological assessment work recorded on September 19, 1984
be extended until and including Nov. 30, 1984.

1984. 12. 03

Date

Signature of Director, Land Management Branch

Copies: Duration Mines Ltd
Suite 606
199 Bay Street
Toronto, Ontario
M5J 1L4
Attention: George R. Kent

cc: Wilshire Energy Resources Inc
Suite 302
67 Richmond Street West
Toronto, Ontario
M5H 1Z5

cc: Mining Recorder
Kirkland Lake, Ontario

RED Lake

AB

f.



DURATION MINES LTD.
(Duration Resources Inc., U.S.A.)

Ste. 606, 199 Bay Street, Toronto, Ontario M5J 1L4 Tel: (416) 361-1139 (1263)

November 27, 1984

Mining Recorder
Ministry of Natural Resources
Ontario Government Building
Red Lake, Ontario
P6A 5N2

**Re: Mineral Claims KRL 621437-462 incl.
Red Lake - Pickle Lake Area**

Dear Sir:

Further to our letter of September 17, 1984, we are herewith enclosing two copies each of eight reports on these properties.

Yours very truly,

George R. Kent
President

CRK/lm

Encl.

✓ cc: Mr. S. E. Yundt
Director
Land Management Branch
Whitney Block Room 6643
Queens Park
Toronto, Ontario
M7A 1W3

RECEIVED

NOV 30 1984

MINING LANDS SECTION



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

Your File: 57-84
Our File: 2.7498

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

Ontario

Dec 31/84

1984 12 14

Your File: 57-84
Our File: 2.7498

Mining Recorder
Ministry of Natural Resources
Ontario Government Building
Box 5003
Red Lake, Ontario
POV 2M0

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. Kinvig:sc
Encls.

cc: Duration Mines Limited
Suite 606
199 Bay Street
Toronto, Ontario
M5J 1L4
Attn: George R. Kent.

cc: Wilshire Energy Resources Inc
Suite 302
67 Richmond Street West
Toronto, Ontario
M5H 1Z5

FILE

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

1984 12 31

Your File: 57-84
Our File: 2.7498

Mining Recorder
Ministry of Natural Resources
Ontario Government Building
Box 5003
Red Lake, Ontario
POV 2M0

Dear Sir:

RE: Notice of Intent dated December 14, 1984
Geological, Geophysical (Electromagnetic
& Magnetometer) Survey on Mining Claims
KRL 621437 et al in Casumit Lake, Meen
Lake, McVicar Lake Area and Skinner Township

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) 965-4888

D. Kinvig:mc

cc: Duration Mines Limited
Suite 606
199 Bay Street
Toronto, Ontario
M5J 1L4
Attention: George R. Kent

cc: Wilshire Energy Resources Inc
Suite 302
67 Richmond Street West
Toronto, Ontario
M5H 1Z5

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

cc: Resident Geologist
Red Lake, Ontario

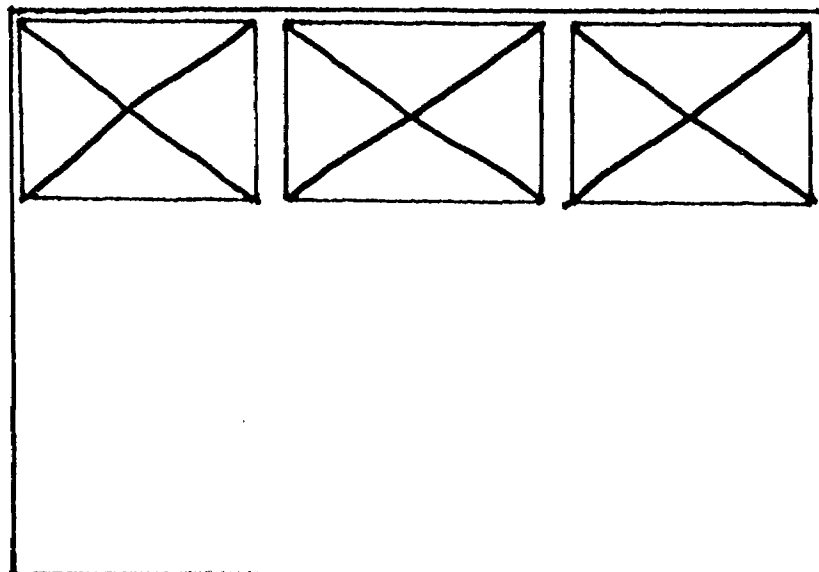
Encl.

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

52φ/11SW-0025 # 1-3

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

(X)



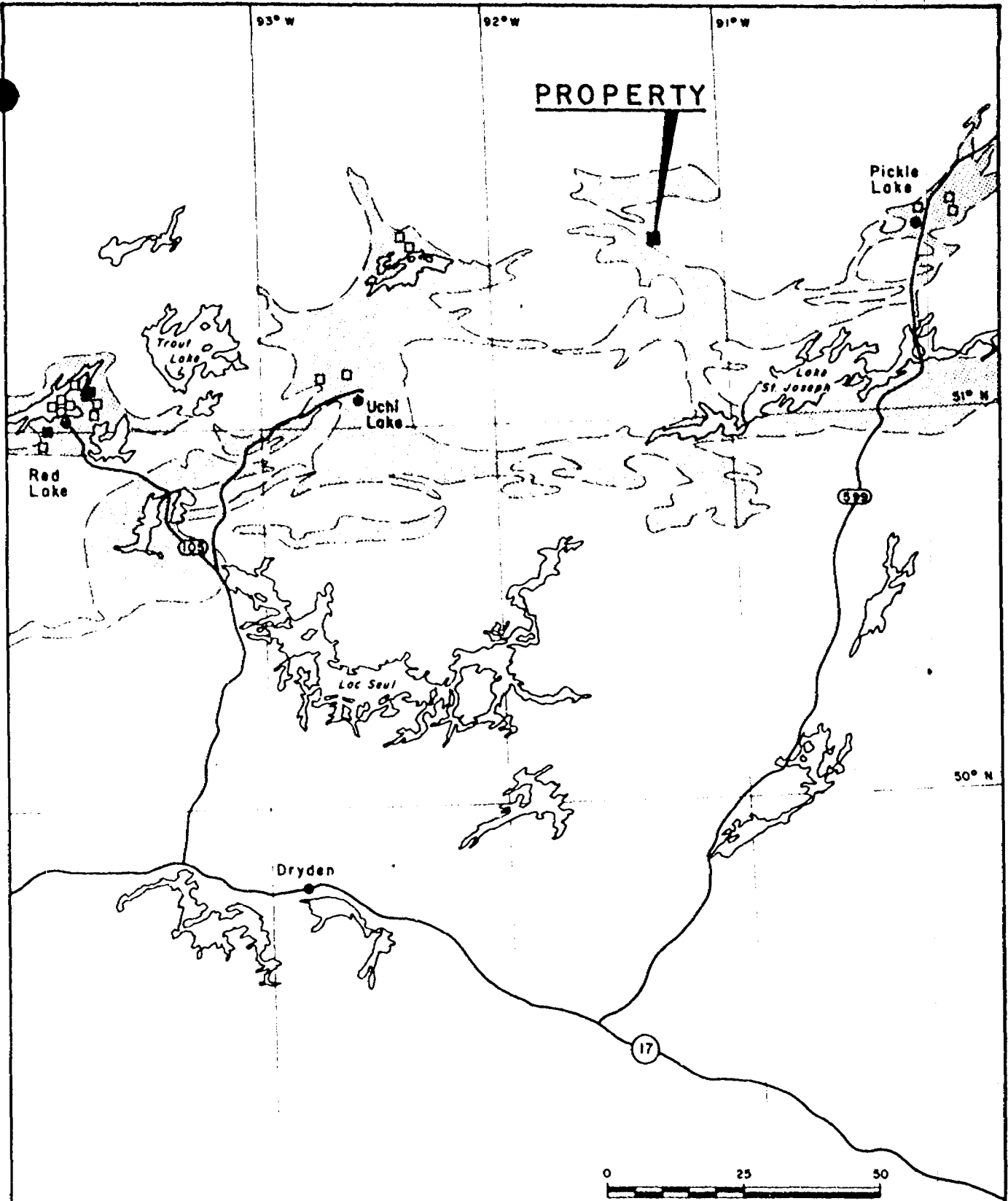
INTRODUCTION

George R. Kent & Associates Ltd. was commissioned by Duration Mines Limited and Wilshire Energy Resources Inc. to carry out geological mapping, magnetometer and electromagnetic surveys on four groups of mineral claims lying between Red Lake and Pickle Lake, Ontario. One of these, a six claim group known as the Meen Lake Group, is the subject of this geological report.

An east west base line was established across the middle of the property by compass and chain for control purposes. Profile lines were turned off normal to the base lines at 125 metre intervals, with flagging marked and tied to trees and branches at 25 metre intervals. The lines were systematically traversed from September 7th - 10th, 1984 inclusive, in search of outcrop and to effect the surveys. The claims are covered with spruce with alders in some stream drainage areas.

PROPERTY LOCATION AND ACCESS

The six claim group (KRL 621449-621454 inclusive) is accessible in summer only by chartered aircraft available from either Red Lake or Pickle Lake but could be approached in winter with some difficulty along rivers and lakes from Pickle Lake 83 kms to the east. A surveyed line between the Red Lake and Patricia Mining Divisions extends to Pickle Lake from a point one mile south of the property and travel could be made along this route by skidoo or other tracked vehicle in winter. Pickle Lake and Red Lake are serviced by regular scheduled airline flights from Dryden 225 kms to the SSW which is connected by daily flights to Thunder Bay and Toronto. Pickle Lake is connected via paved highway to the main Trans Canada Highway at Ignace about 265 kms south. Maps I and II help to further define the location.



- PRODUCING
- PAST PRODUCER
- ▨ VOLCANIC ROCKS
- GRANITIC ROCKS



DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
<small>GEORGE R. KENT & ASSOCIATES, LTD.</small>		
RED LAKE - PICKLE LAKE AREA		
LOCATION MAP		
MEEN LAKE		
DATE: OCT., 1984	SCALE: 1" = 25 miles	BY: M.L./G.R.K.

TABLE I

MEEN LAKE CLAIMS

OWNER: Duration Mines Ltd. as to 50 percent
Wilshire Energy Resources Inc. as to 50 percent

LOCATION: Meen Lake (Meen Lake Sheet M2239)
Latitude 51°28'00"
Longitude 91°24'10"

PROPERTY: Six Mineral Claims

<u>CLAIMS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>	<u>EXTENSION</u>	<u>LEASE DATE</u>
KRL 621449-621454 incl.	83-03-05	84-03-25	84-09-26	88-03-25

ENVIRONMENT

The property is near uniformly forested with over thirty foot high spruce except for a 20 acre lake and surrounding marsh in the east central part and a 10 acre area (north central) where the spruce trees range from only 10-20 feet. Some alders occur in stream drainage area and some patches of "blow down" occur along the shore of Meen Lake. A cut NS line traverses the west side of the property. A fair amount of outcrop occurs and no evidence of previous exploration was reported by the field crews.

HISTORY

According to Map No. 2218 ODM, 1972, there is a gold showing on the property and there is some mention of work having been done to the north west. However, there is no word of assessment detail on file in either Toronto or Red Lake.

WORK DONE

A base line was paced and flagged east west across the property, claims 621453, 621452 and 621449. Profile lines were turned off by compass at 125 metre intervals and they were paced and flagged north and south to the property boundaries. Flags were tied to the trees and branches at 25 metre intervals for a total of 8.000 kilometres. The lines and much of the between line areas were traversed, outcrops were noted, geological maps and field notes were made, and some specimens were returned to Toronto. The grid was used for control of the geophysical surveys which are reported on separately.

GEOLOGY

Mostly mafic metavolcanic rocks are exposed which are locally pillowed, generally foliated 110-120° and sub vertical with local concentrations of py/po along foliation planes. The rock is generally dark green to greenish black and fine to medium grained. In the southern part of the property, metavolcanics are locally interlayered with thin granite gneiss. An ultramafic, greenish black, very coarse grained, well crystallized (1/4 - 3/8") intrusive outcrops in the centre of the property just north of the base line at 400E. A few outcrops of pink, medium to coarse grained felsic intrusive (trondhjemite) locally migmatized occur to the north. The felsic intrusives appear to be parallel to the foliation, however, one thin dyke was transverse in metavolcanics on L2+50E 2+50N.

CONCLUSIONS AND RECOMMENDATIONS

The magnetics suggest that the ultrabasic is thin, tabular, and probably sill-like and with the geology suggests that the property is essentially underlain by greenstone in spite of the more extensive granitic unit as shown on Map No. 2.

SUMMARY OF EXPENDITURES

GRID PREPARATION	9.100 X 120 =	1,092.00
GEOLOGICAL SURVEY	11.600 X 110 =	<u>1,276.00</u>
		2,368.00
TRAVEL MOB & DEMOB		525.00
REPORTS		<u>600.00</u>
		3,493.00
ADMIN.		<u>349.30</u>
		3,842.30

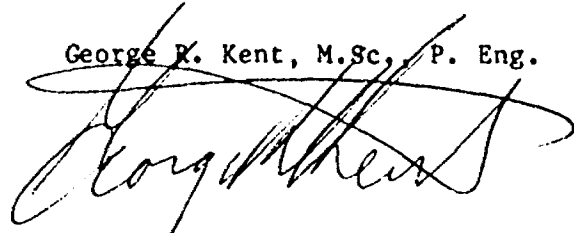
AUTHOR'S QUALIFICATIONS

EDUCATION: B.Sc., Saint Francis Xavier University, 1956.
M.Sc., Dalhousie University 1962.

MEMBERSHIPS: Member of the Association of Professional Engineers of Ontario.

EXPERIENCE: More than twenty-five years in mineral exploration including eleven years in the consulting business.

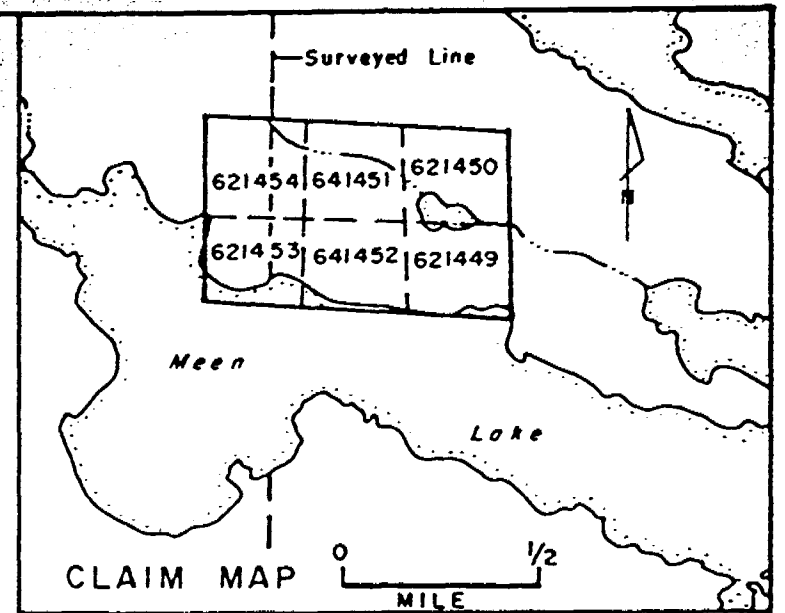
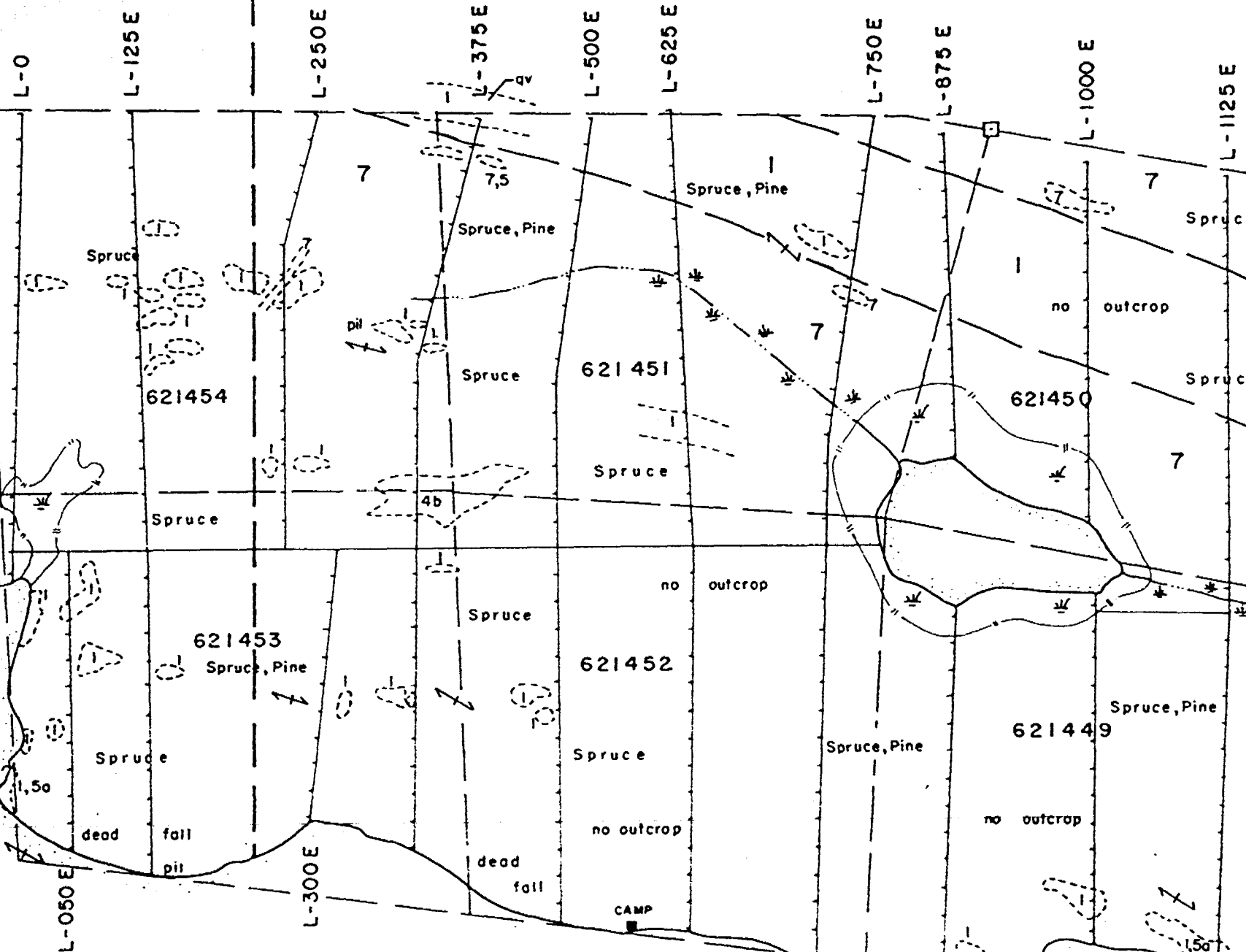
George R. Kent, M.Sc., P. Eng.

A handwritten signature in cursive script, appearing to read "George R. Kent", written over the typed name above.

George R. Kent & Associates Ltd.
President



Surveyed Line



LEGEND

- 7 Granite and granitoid rocks
- 5 Migmatite
- 5a Gneiss, quartz feldspar
- 4 Mafic intrusives
- 4a Gabbro
- 4b Pyroxenite
- 1 Mafic metavolcanics
- Geological contact assumed
- Outcrop area
- Swamp
- Foliation
- chl chlorite
- pil pillowed
- po pyrrhotite
- py pyrite
- qv quartz vein
- Claim post



2.7498

BASE LINE

MEEN

LAKE

NTS 52/0/6

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
GEORGE R. KENT & ASSOCIATES LTD.		
MEEN LAKE <i>Map No. 2</i>		
GEOLOGY		
RED LAKE — PICKLE LAKE AREA		
DATE: OCT., 1984	SCALE: 1:5,000	BY: M.L./G.R.K.



52011SW0033 52011SW0025 MCVICAR LAKE

030

ASSESSMENT REPORT
ON
GRID PREPARATION AND GEOLOGICAL MAPPING
OF THE EIGHT CLAIM
(KRL 621455 - KRL 621462)
SEMIA LAKE PROPERTY
OF
DURATION MINES LTD.
AND
WILSHIRE ENERGY RESOURCES INC.
"RED PICKLE PROJECT"

RED LAKE MINING DIVISION
MCVICAR LAKE SHEET G2121
NTS 52-0-14

LATITUDE 51°31'
LONGITUDE 91°24'

RECEIVED
NOV 30 1984
MINING LANDS SECTION

Toronto, Ontario
November 23, 1984

George R. Kent, M.Sc. P. Eng.
George R. Kent & Associates Ltd.

Qual
21,790



52011SW0033 52011SW0025 MCVICAR LAKE

030C TABLE OF CONTENTS

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WORK DONE	3
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AUTHOR'S QUALIFICATIONS	5

MAPS

PROPERTY AND CLAIM LOCATION MAP	1:25 MILES	MAP NO. 1
GEOLOGICAL MAP	1:5000	MAP NO. 2

INTRODUCTION

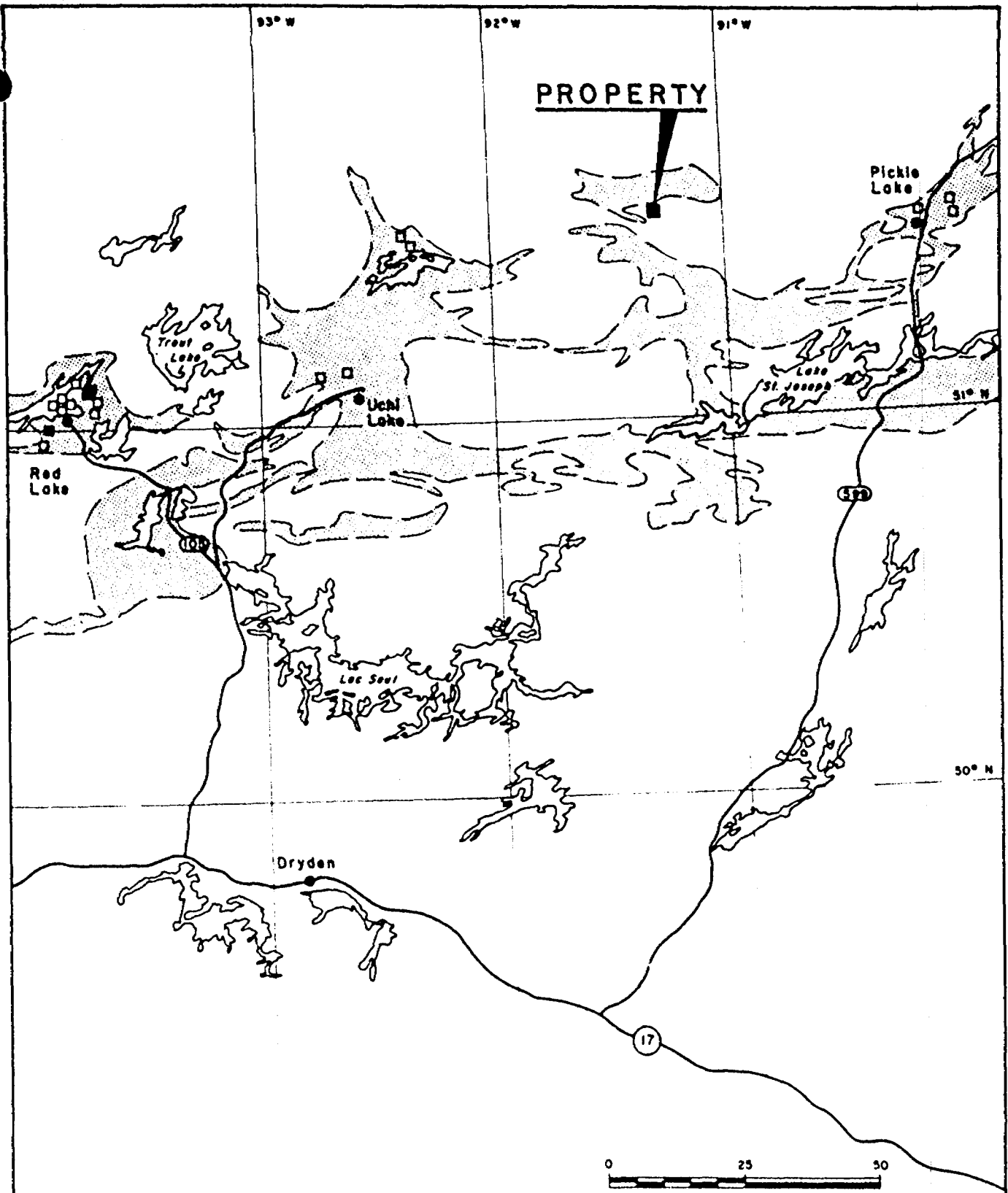
George R. Kent & Associates Ltd. was commissioned by Duration Mines Limited and Wilshire Energy Resources Inc. to carry out geological mapping, magnetometer and electromagnetic surveys on four groups of mineral claims lying between Red Lake and Pickle Lake, Ontario. One of these, an eight claim group known as the Semia Lake Group, is the subject of this geological report.

Two base lines were established east-west across the property by compass and chain for control purposes. Profile lines were turned off normal to the base line at 125 metre intervals, with flagging marked and tied to trees and branches at 25 metre intervals. The lines were systematically traversed from September 1-5th, 1984 inclusive, in search of outcrop and to effect the surveys. The claims are essentially covered with black spruce with willow and alders along some streams. Much of the area south of Semia Lake is glacial sand and gravel plain.

PROPERTY LOCATION & ACCESS

The eight claim group (KRL 621455-621462 incl.) is accessible only by chartered float plane from either Red Lake or Pickle Lake in summer, but could be approached in winter with some difficulty along rivers and lakes from Pickle Lake, 83 kms to the east. Surveyed lines extend six kilometres due south of the property and 83 kms east to Pickle Lake. It is assumed that travel could also be maintained along this route in winter by skidoo or other tracked vehicle. A canoe was used during this program to facilitate easier access along Semia Lake.

Pickle Lake and or Red Lake are serviced by regular scheduled airline flights from Dryden where connections to Thunder Bay and Toronto are on a daily basis. Pickle Lake is connected by 270 kms of paved highway south to the main Trans Canada Highway at Ignace. Maps I and II further describe the location.



- PRODUCING
- PAST PRODUCER
- ▨ VOLCANIC ROCKS
- ▩ GRANITIC ROCKS



DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
<small>GEORGE R. KENT & ASSOCIATES LTD.</small>		
RED LAKE - PICKLE LAKE AREA		
LOCATION MAP		
SEMIA LAKE MAP NO. 1		
<small>DATE: OCT. , 1984</small>	<small>SCALE: 1" = 25 miles</small>	<small>BY: M.L./G.R.K.</small>

TABLE I

Semia Lake Claims

OWNER: Duration Mines Ltd. as to 50 percent
Wilshire Energy Resources Inc. as to 50 percent

LOCATION: McVicar Lake Area (G2121)
Latitude 51°31'
Longitude 91°24'

PROPERTY: 8 Mineral Claims

<u>CLAIMS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>	<u>EXTENSION</u>	<u>LEASE DATE</u>
KRL 621455 - 621462 INCL.	83-03-25	84-03-25	84-09-26	88-03-25

ENVIRONMENT

The property is generally low in relief with a base elevation of 400 feet at Semia Lake. The southernmost four claims (KRL 621455, 621460 - 462 incl.) are largely forested with greater than 25 high spruce and balsam with 4-6 inch trunks. Uniform forrestation has occurred south of Semia Lake with the exception of a stream trending NE across claim 621445 where heavy alders are abundant. The northern four claims are characterized by irregular 30' high spruce and balsam patches, 40% is dense 10-25' high jack pine and spruce, 30% with 10 foot high spruce and 30% by muskeg, lakes, and some stands of mixed spruce and deciduous tree types. Semia Lake is relatively clear and apparently unpolluted.

HISTORY

Pickle Patricia Explorers Ltd. did some work on the property in 1962 and Cominco did some airborne and ground magnetic and electromagnetic surveying in 1978 and 1979. Five drill holes are reported to have been drilled on the property of which four were collared from winter lake ice. The 1962 date and geophysical survey method (gravitometer) suggest that the prime target was base metals. Little evidence was found to substantiate the

ground surveys although a few trenches were located immediately south of the lake in the eastern part of the property (KRL 621461). No evidence of former gridding was mentioned by the field crews.

WORK DONE

Base lines were paced and flagged east-west across claims KRL 621458, 621456, 621455, 621460 and 621461. Profile lines were turned off by compass at 125 metre intervals and they were paced and flagged north or south to the property perimeter. Flags were tied to branches and trees at 25 meter intervals for a total of 14.165 kms. The lines and much of the between line areas were traversed, outcrops were recorded on geological maps and field notes were made; some specimens were returned to Toronto. The grid was used for control of geophysical surveys, which are reported on separately.

GEOLOGY

The property straddles a northwesterly trending belt of Archean mafic metavolcanics, tuffaceous rhyolite and metasedimentary rocks which, according to the regional maps, lie within the Dobie Lake batholith. Outcrop is sparse overall but the following descriptions were recorded:

Metavolcanics are dark green to greenish black, very fine to fine grained and mafic to intermediate in composition. They are in general moderately foliated.

A rhyolite tuff near the boundary of KRL 621458 and 621456 hosts 1/2 to 8 inch thick barren conformable quartz veins with traces of pyrite and pyrrhotite.

The mafic metavolcanics are bounded on the south and southwest by pinkish, medium to coarse grained felsic intrusive and migmatite. The felsic intrusive

appears to be chloritized toward the volcanic assemblage, and it is slightly to moderately foliated (120 - 135°).

The magnetics suggest the presence of iron formation (pyrrhotite observed) within the metavolcanics and seem to clearly outline the limits of the latter rock unit. A similar less intense band lies parallel about 400 metres away to the NE and although there is no outcrop it probably is similar metavolcanic rock.

CONCLUSIONS AND RECOMMENDATIONS

The geological survey has done little to enlighten the economic viability of the property though in company with the grid should supply control for required geochemical surveys.

There are no exposures with gold mineralization on which to base geochemical orientation surveys, however, four or five mechanical overburden sampling profiles should be attempted in strategic locations if humus or soil sampling are ineffective in this terrain.

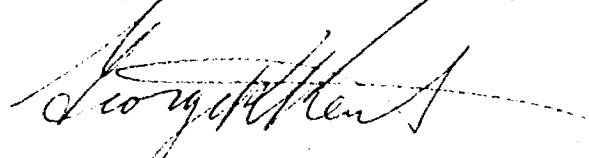
SUMMARY OF EXPENDITURES

Grid Preparation	14.165 @ \$120	1,699.80
Geological Survey	14.165 @ \$110	<u>1,558.15</u>
		3,257.95
Travel mob & demob		525.00
Reports and drafting etc.		<u>600.00</u>
		4,382.95
Admin.		<u>438.30</u>
		4,821.25

AUTHOR'S QUALIFICATIONS

- EDUCATION:** B.Sc., Saint Francis Xavier University, 1956.
M.Sc., Dalhousie University 1962.
- MEMBERSHIPS:** Member of the Association of Professional Engineers of Ontario.
- EXPERIENCE:** More than twenty-five years in mineral exploration including eleven years in the consulting business.

George R. Kent, M.Sc., P. Eng.

A handwritten signature in cursive script, appearing to read "George R. Kent", written over a horizontal dashed line.

George R. Kent & Associates Ltd.

President



52011SW0033 52011SW0025 MCVICAR LAKE

040

ASSESSMENT REPORT
ON
GEOLOGICAL MAPPING AND GRID PREPARATION
OF THE EIGHT CLAIM
(KRL 621437 - KRL 621444)
BIRCH LAKE PROPERTY
OF
DURATION MINES LIMITED
AND
WILSHIRE ENERGY RESOURCES INC.
"RED PICKLE PROJECT"

CASUMMIT LAKE SHEET M2695
NTS 52 N/8

LATITUDE 51°22'35"
LONGITUDE 92°29'00"

RECEIVED

NOV 30 1984

MINING LANDS SECTION

Toronto, Ontario
December 23, 1984

George R. Kent, M.Sc. P. Eng.
George R. Kent & Associates Ltd.

27498



52011SW0033 52011SW0025 MCVICAR LAKE

040C

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AUTHOR'S QUALIFICATIONS	5

MAPS

PROPERTY AND CLAIM LOCATION MAP	1:25 MILES	MAP NO. 1
MAGNETOMETER SURVEY	1:5000	MAP NO. 2
ELECTROMAGNETIC SURVEY	1:5000	MAP NO. 3

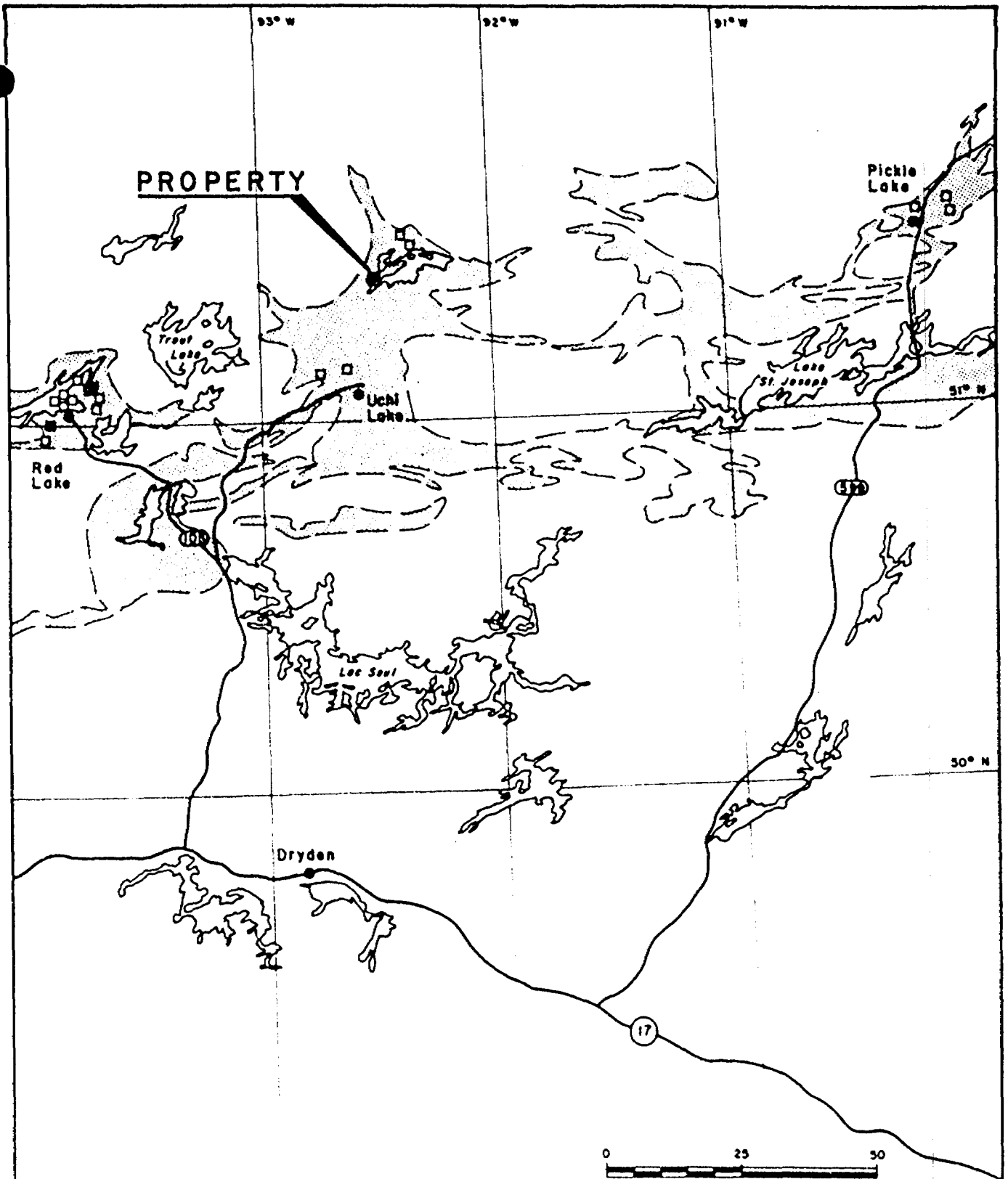
INTRODUCTION

George R. Kent & Associates Ltd. was commissioned by Duration Mines Limited and Wilshire Energy Resources Inc. to carry out geological mapping, magnetometer and electromagnetic surveys on four groups of mineral claims lying between Red Lake and Pickle Lake, Ontario. One of these, an eight claim group known as the Semia Lake Group, is the subject of this geological report.

Two base lines were established east-west across the property by compass and chain for control purposes. Profile lines were turned off normal to the base line at 125 metre intervals, with flagging marked and tied to trees and branches at 25 metre intervals. The lines were systematically traversed from September 11th - 16th, 1984 to effect the survey. The claims are not uniformly forested but show some variation primarily across the strike, (essentially parallel with the glaciation). In the central part of the property there are some patches (<20%) of spruce and balsam more than 30' high while much of the remainder is covered with 7-10' jack pine. The claim line area between KRL 621443 and 621444 is mostly muskeg and alders with some low jack pine.

PROPERTY LOCATION AND ACCESS

The eight claim group (KRL 621437-621444 incl.) is accessible by chartered float plane from Pickle Lake or Red Lake, Ontario, 170 or 110 kms to the east and west respectively. It is 35 kms ENE of Uchi Lake, a northern road terminus and is 178 kms ENE of Dryden on the Trans Canada Highway and Canadian Pacific rail line. Dryden is 300 kms NW of Thunder Bay, Ontario. The property could best be approached overland and along lakes and rivers from Uchi in the winter. Pickle Lake and Red Lake are serviced by regular scheduled airline flights from Dryden, where Nordair has daily connecting flights to Thunder Bay and Toronto.



- PRODUCING
- PAST PRODUCER
- ▭ VOLCANIC ROCKS
- ▭ GRANITIC ROCKS

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
<small>GEORGE R. KENT & ASSOCIATES LTD.</small>		
RED LAKE - PICKLE LAKE AREA		
LOCATION MAP		
BIRCH LAKE MAP NO. 1		
<small>DATE: OCT., 1984</small>	<small>SCALE: 1" = 25 miles</small>	<small>BY: M.L./G.R.K.</small>

TABLE I

BIRCH LAKE CLAIMS

OWNER: Duration Mines Ltd. as to 50 percent
 Wilshire Energy Resources Inc. as to 50 percent

LOCATION: Birch Lake (Casummit Lake Sheet M2695)
 Latitude 51°22'35"
 Longitude 92°29'00"

PROPERTY: Eight Mineral Claims

<u>CLAIMS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>	<u>EXTENSION</u>	<u>LEASE DATE</u>
KRL 621437-621444 incl.	83-03-25	84-03-25	84-09-26	88-03-25

ENVIRONMENT

The claims are covered with black spruce, stag spruce where it is dense and difficult to traverse, and also by jack pine. Elevation ranges from a base level at the lake of 393 feet to about only 420 feet at the highest point. An old cut line trends NE across the property but otherwise there does not appear to have been any ecological or environmental damage to the property.

HISTORY

There is no recorded history of exploration on the property itself though it is likely that Cannex Placer's work in the adjacent property might have extended onto these claims. The reported occurrence of gold, Map No. 2175 ODM 1970, at two locations on the claims has not been confirmed or denied nor was the presence of any systematic grid lines reported by the field crews. It is thought that Cannex's approach was base metal oriented.

WORK DONE

A base line was established east-west across the property and profile lines were turned off therefrom at 725 metre intervals. All lines were paced and flagged at 25 metre intervals for a total length of 9.315 kilometres. The lines and much of the between line area were mapped geologically with outcrop tied into the grid co-ordinates. The grid was used to control subsequent magnetometer and electromagnetic surveys.

GEOLOGY

The underlying rocks on the property consist of rhyolite and rhyolite tuff, with minor agglomerate and or flow breccia, dacite, and mafic to ultramafic intrusive rocks. Rhyolite and rhyolite tuff occupy the central part of the property and consist of olive green, aphanitic, very hard rock with occasional thin laminated zones of very fine subrounded fragments. Local en echelon quartz-veins were observed in outcrop east of line 900W @ 060N.

The rhyolite agglomerate and or flow breccia outcrops south-east of the above mentioned assemblage immediately north of the small lake in the middle of the map, and contains angular to subrounded rhyolite and tuff fragments up to 2 inches long.

A medium to dark grey fine grained dacite tuff? is exposed on the west end of the property. The rock is chloritized and well laminated with coarser grained acidic bands. These rocks are exposed immediately SE of a coarse to grey pyroxenitic ultramafic intrusion running parallel with the general trend of the metavolcanics.

CONCLUSIONS AND RECOMMENDATIONS

The geological survey has done little to enlighten the economic viability of the property though in company with the grid should supply control limitations for any further work. No reason for the possible presence of gold indicated on government maps was recognized during the course of gridding and geological mapping.

There are no mineral exposures on which to base geochemical orientation surveys, however, at least two soil or humus profiles should be run NW-SE across the trend where the overburden is thin. If these strongly suggest the presence of gold then further trenching and soil sampling should be done.

SUMMARY OF EXPENDITURES

GRID PREPARATION	9.315 @ \$120	1,117.80
GEOLOGICAL SURVEY	9.315 @ \$110	<u>1,024.65</u>
		2,142.45
TRAVEL MOB & DEMOB		525.00
REPORTS, DRAFTING & TYPING		<u>600.00</u>
		3,267.45
ADMIN.		<u>326.75</u>
		3,594.20

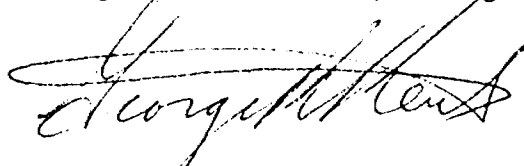
AUTHOR'S QUALIFICATIONS

EDUCATION: B.Sc., Saint Francis Xavier University, 1956.
M.Sc., Dalhousie University 1962.

MEMBERSHIPS: Member of the Association of Professional Engineers of Ontario.

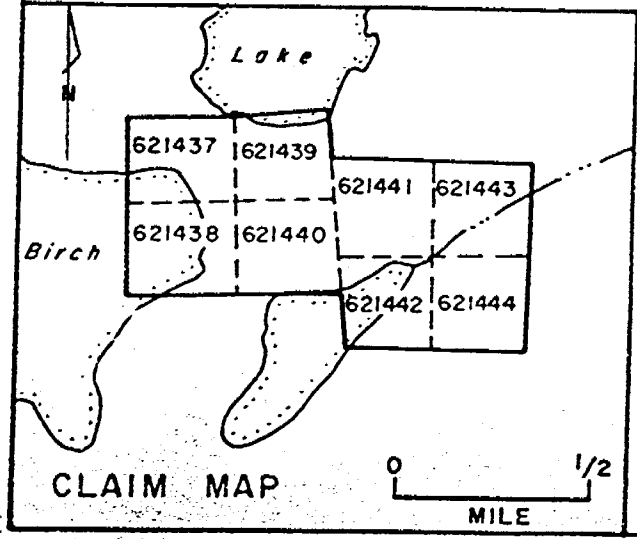
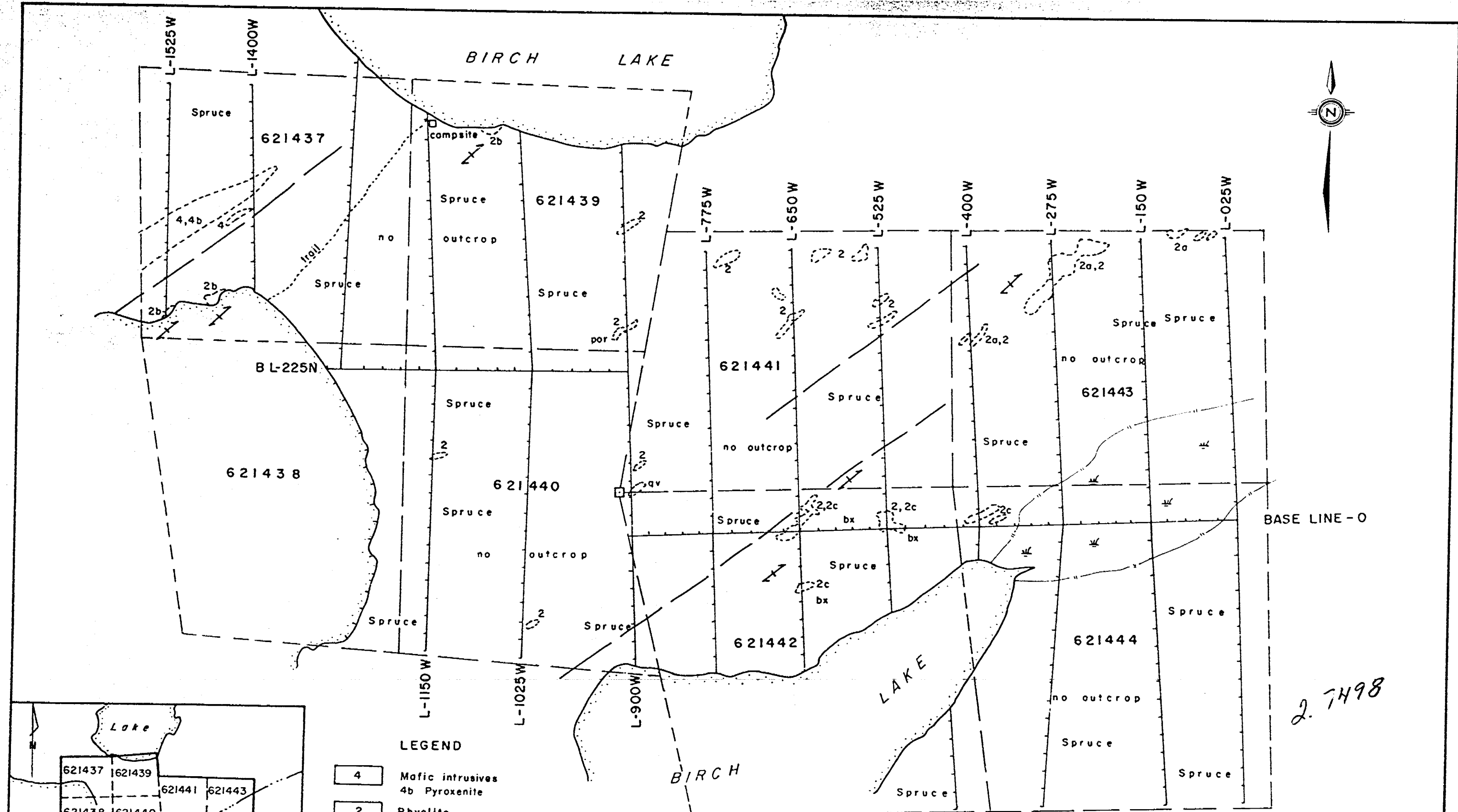
EXPERIENCE: More than twenty-five years in mineral exploration including eleven years in the consulting business.

George R. Kent, M.Sc., P. Eng.

A handwritten signature in cursive script, appearing to read "George R. Kent", written over a horizontal line.

George R. Kent & Associates Ltd.

President



LEGEND

- 4 Mafic intrusives
 - 4b Pyroxenite
- 2 Rhyolite
 - 2a Rhyolite tuff
 - 2b Dacite
 - 2c Agglomerate
- Geological contact assumed
- Outcrop area
- Swamp
- Folliation
- bx flow breccia
- por porphyry
- qv quartz vein
- Claim post

NTS 52/N/8



DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.
 GEORGE R. KENT & ASSOCIATES LTD.
 BIRCH LAKE
 GEOLOGY
 RED LAKE - PICKLE LAKE AREA

DATE: OCT., 1984 SCALE: 1:5,000 BY: M.L./G.R.K.

2.7498

MAP NO. 2

2.7498
2.7498

ASSESSMENT REPORT
ON
MAGNETIC AND ELECTROMAGNETIC
GEOPHYSICAL SURVEYS
OF THE FOUR CLAIM
(KRL 621445 - KRL 621448 INCL.)
NARROW LAKE PROPERTY
OF
DURATION MINES LTD.
AND
WILSHIRE ENERGY RESOURCES INC.
"RED PICKLE PROJECT"

RED LAKE MINING DIVISION
SKINNER TOWNSHIP
MAP NO. M2205

LATITUDE 51°13'00"N
LONGITUDE 91°52'30"W

RECEIVED
NOV 30 1984
MINING LANDS SECTION

Toronto, Ontario
November 23, 1984

George R. Kent, M.Sc. P. Eng.
George R. Kent & Associates Ltd.

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MAPS

PROPERTY AND CLAIM LOCATION MAP	1:25 MILES	MAP NO. 1
GEOLOGICAL MAP	1:5000	MAP NO. 2

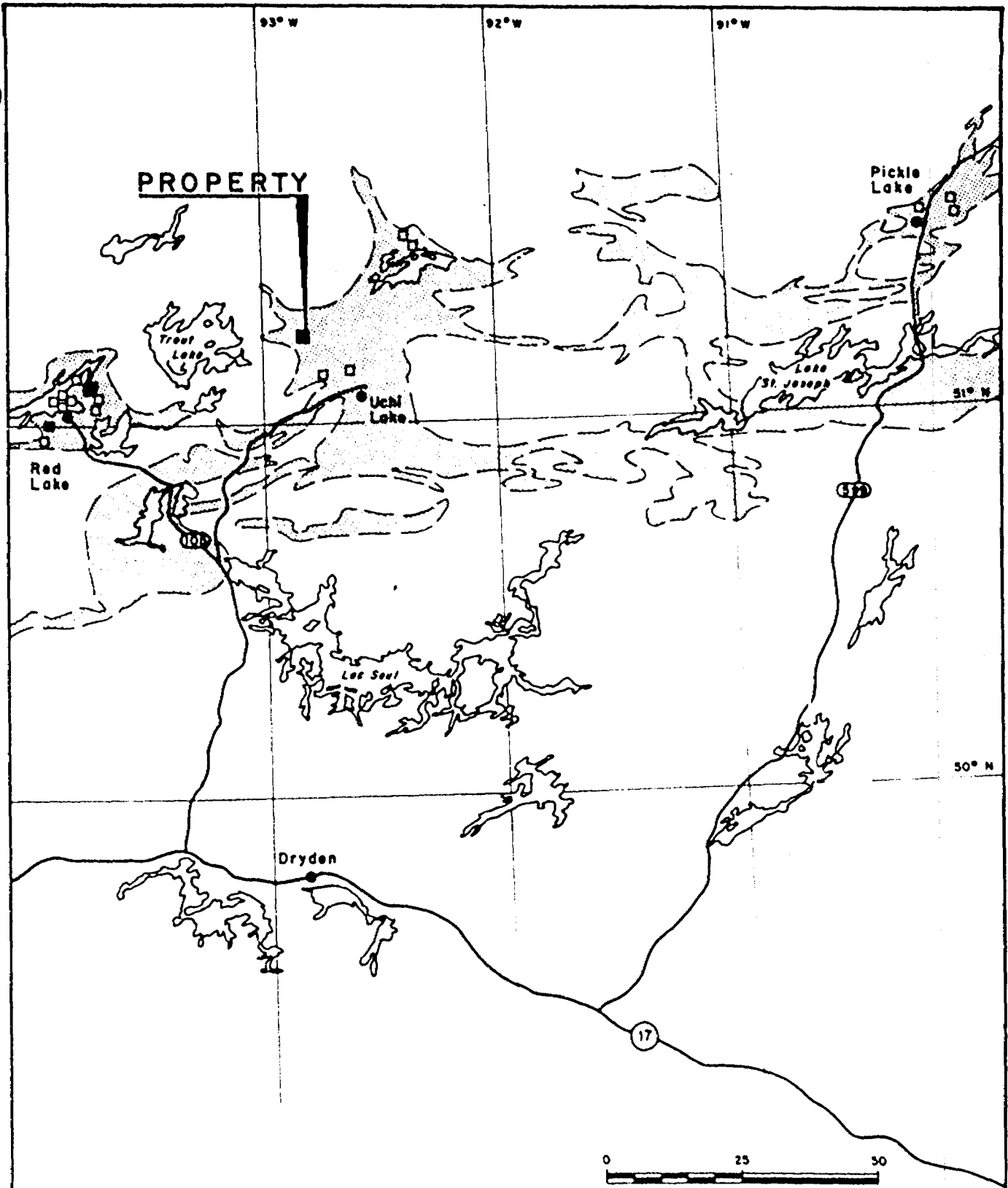
INTRODUCTION

George R. Kent & Associates Ltd. was commissioned by Duration Mines Limited and Wilshire Energy Resources Inc. to carry out geolocial mapping, magnetometer and electromagnetic surveys on four groups of mineral claims lying between Red Lake and Pickle Lake, Ontario. One of these, a four claim group known as the Narrow Lake Group, is the subject of this geological report.

A base line was established east-west across the southern claim boundary by compass and chain for control purposes. Profile lines were turned off to the north, normal to the base line, at 125 metre intervals with flagging marked and tied to trees and branches at 25 metre intervals. The lines were systematically traversed on September 16, 1984 in search of outcrop and to effect the surveys. The property is rather heavily forrested with 30 foot high spruce and balsam.

PROPERTY LOCATION AND ACCESS

The four claim group (KRL 621445 - 621448 incl.) is accessible by chartered float plane from Red Lake in summer about 65 kilometres to the WSW. It may also be reached via canoe, north along the Woman River drainage system west of Uchi Lake or, along the same route, by skidoo or tracked vehicle in winter. Red Lake is serviced by regular scheduled airline flights from Dryden where connections to Thunder Bay and Toronto are on a daily schedule. Red Lake is connected by 230 kms of paved highway to Dryden on the Trans Canada Highway. Maps I and II further describe the location.



- PRODUCING
- PAST PRODUCER
- ▭ VOLCANIC ROCKS
- ▭ GRANITIC ROCKS

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
GEORGE R. KENT & ASSOCIATES LTD.		
RED LAKE - PICKLE LAKE AREA		
LOCATION MAP		
NARROW LAKE MAP NO. 1		
DATE: OCT. , 1984	SCALE: 1" = 25 miles	BY: M.L./G.R.K.

TABLE I

NARROW LAKE CLAIMS

OWNER: Duration Mines Ltd. as to 50 percent
Wilshire Energy Resources Inc. as to 50 percent

LOCATION: Skinner Township (M2205)
Latitude 51°13'00"N
Longitude 92°52'30"W

PROPERTY: Four Mineral Claims

<u>CLAIMS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>	<u>EXTENSION</u>	<u>LEASE DATE</u>
KRL 621445 - 661448	83-03-05	84-03-25	84-09-26	88-03-25

ENVIRONMENT

The property is low in relief and is mostly water covered. Elevation changes only about 30-40 feet above lake elevation at 395 feet. These claims have been partially worked before and there are some trenches on the property. There are a few tumbled down shacks on the claim north of 621445 and it is evident that drilling has been done on some of these other claims as well as from the frozen lake surface. Old grid lines are present.

The three, side contiguous, claims are uniformly covered with thirty foot high spruce and balsam and there is a low east-west narrow swamp about 50 metres north of the south boundary.

The lake provided good drinking water and seems clear of any contamination.

HISTORY

A gold showing is indicated to be on the claims (Map No. 2175 OGS 1"=4 M.) and gold associated with base metals is reported to occur in en echelon quartz lenses within diabase dykes cutting Keewatin volcanics. Some old trenches were located but they are sloughed in and couldn't be sampled.

WORK DONE

A paced and flagged grid laid off by compass was used for control on the geophysical surveys. Stations were successively occupied and read at twenty-five metre intervals with both instruments on all profile lines, and additionally along the east west base line with the magnetometer. Diurnal corrections were made and the results were plotted in plan and profile respectively. These maps record all of the field data obtained and are included.

MAGNETOMETER SURVEY

The magnetometer, a Geometrics Model G816/826 proton total field instrument was used to measure the magnetic surface intensity at successive 25 metre station intervals on all profile and base lines of the grid. Diurnal corrections were effected by doubling back from line to line and by periodic readings of base and sub-base stations. The results were plotted on a 1:5000 scale map (Map No. 2) which is enclosed in the rear pocket of this report.

A local high (300 - 400 gammas) on line L3+75W seems to reflect the presence of exposed intermediate to mafic volcanics. Elsewhere the trend is indicated. An 800 gamma isolated high reading on L7+50W 1+25N seems to be just off the outcrop and is unexplained.

ELECTROMAGNETIC SURVEY

A Geonics VLF-EM16 was used to measure the In Phase and Out of Phase components of the vertical magnetic field as a percentage of the horizontal primary field. The resolution of these components was believed to be $\pm 1\%$. All readings were taken using Culter Main (NAA) transmitting at 17.8 KHz and all readings were taken facing north.

A fairly strong steep dipping conductor strikes across the property near the south boundary and corresponds with a weak magnetic low and a thin band of swampy ground on surface. A steep strong, south dipping conductor is indicated to be in Narrow Lake to the north as a strong shoulder occurs on these claims.

CONCLUSIONS AND RECOMMENDATIONS

The magnetics are not suggestive of possible gold mineralization in a quartz vein, iron formation environment, in diabase hosted quartz veins or in altered volcanic rocks. No further geophysical surveys are recommended at this time.

SUMMARY OF EXPENDITURES

VLF EM 16	2.415 @ \$90 =	217.35
MAGNETOMETER SURVEY	3.115 @ \$90 =	<u>280.35</u>
		497.70
TRAVEL MOB & DEMOB		525.00
REPORTS		<u>700.00</u>
		1,722.70
ADMIN.		<u>172.30</u>
		1,895.00

AUTHOR'S QUALIFICATIONS

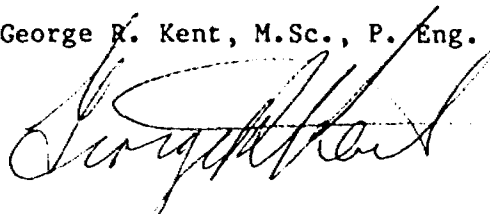
EDUCATION: B.Sc., Saint Francis Xavier University, 1956.

M.Sc., Dalhousie University 1962.

MEMBERSHIPS: Member of the Association of Professional Engineers of Ontario.

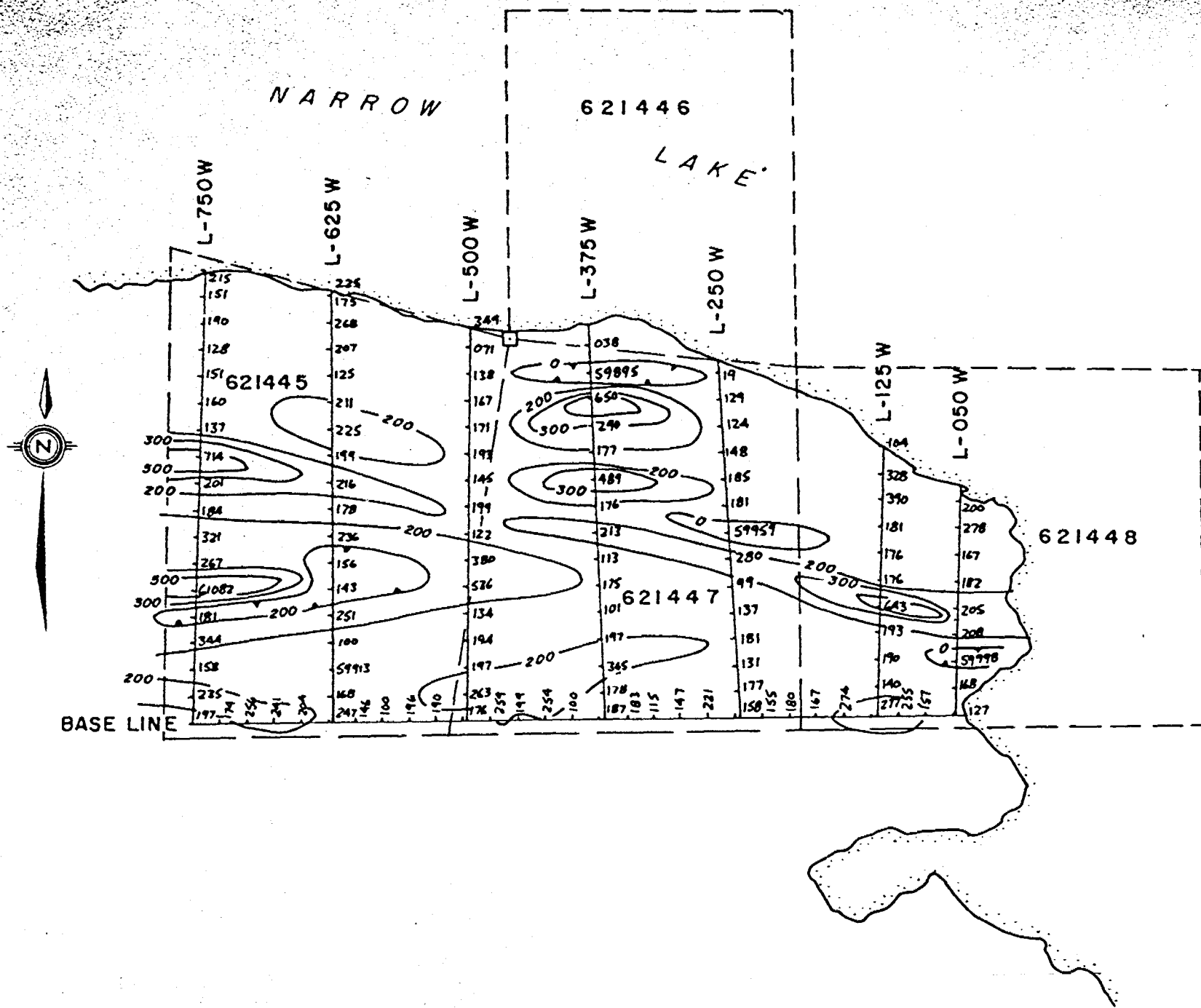
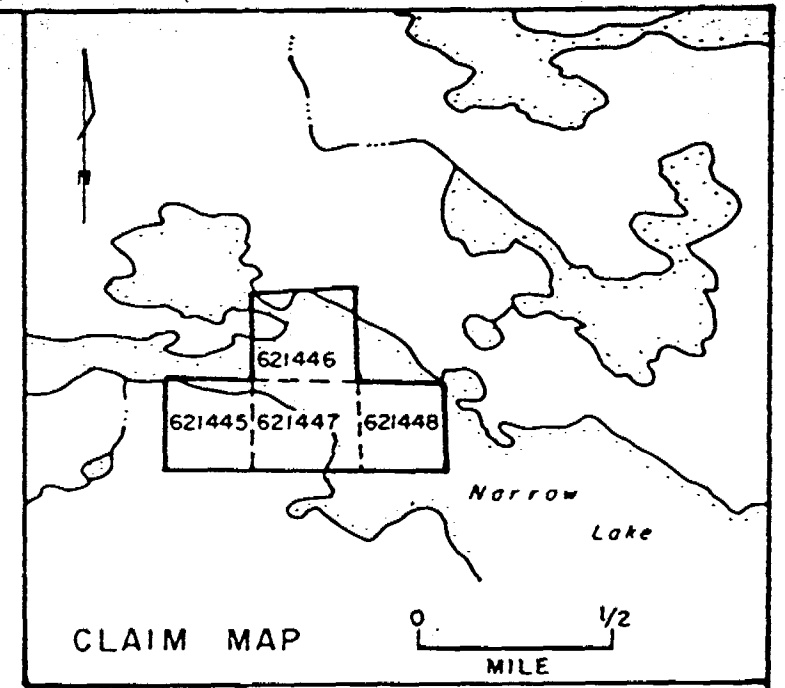
EXPERIENCE: More than twenty-five years in mineral exploration including eleven years in the consulting business.

George R. Kent, M.Sc., P. Eng.



George R. Kent & Associates Ltd.

President



27498

LEGEND

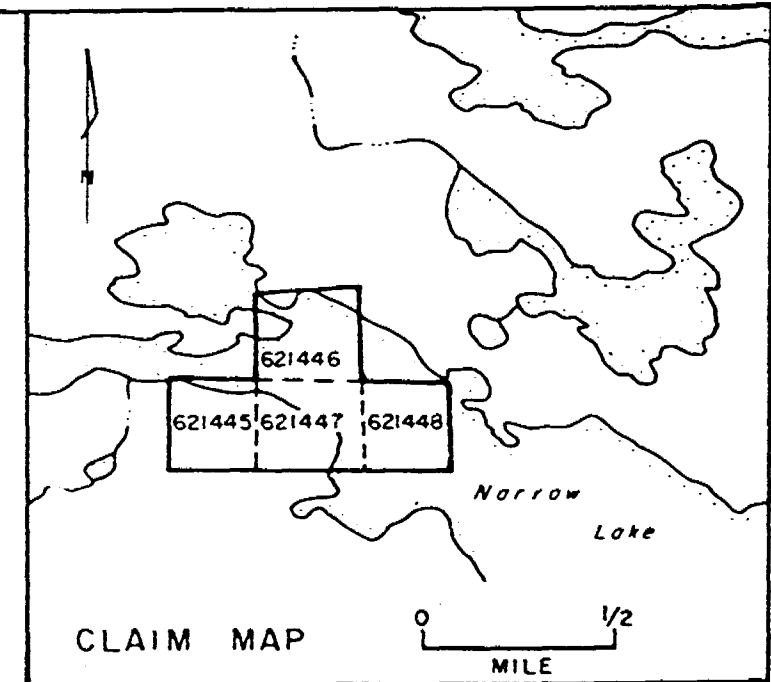
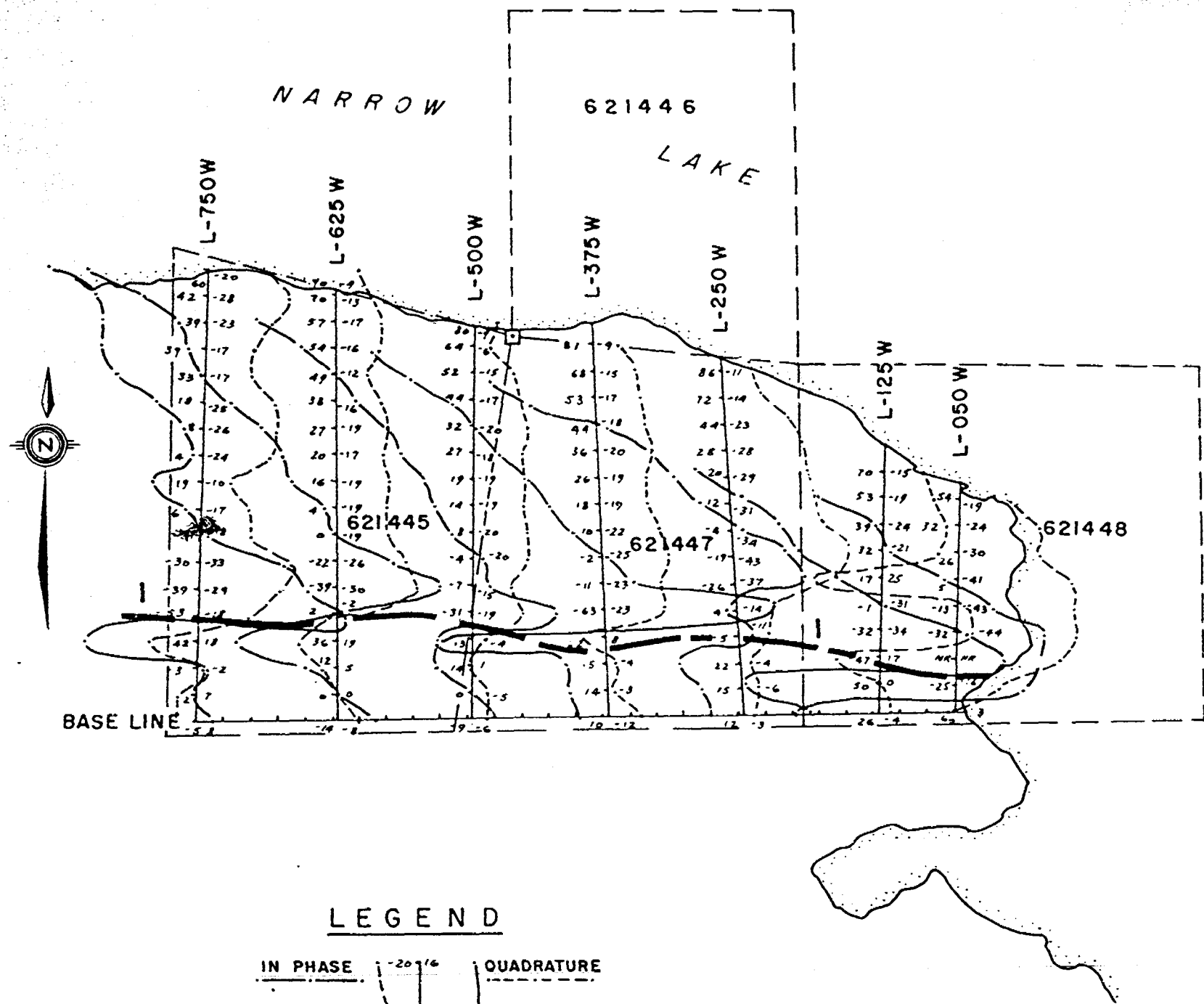
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- NOTE: 60000 gammas omitted unless otherwise indicated
- Mag contours
- Mag low

NIS 52/N/2

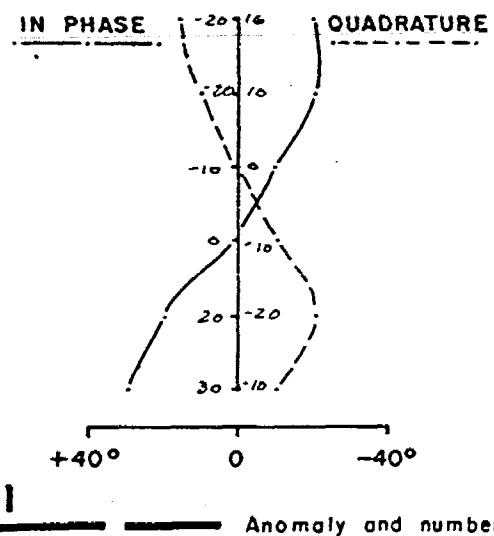


MAP NO. 2

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
GEORGE R. KENT & ASSOCIATES LTD.		
NARROW LAKE		
MAGNETOMETER SURVEY		
RED LAKE - PICKLE LAKE AREA		
DATE: OCT., 1984	SCALE: 1:5,000	BY: M.L./G.R.K.



LEGEND



NTS 52/N/2



MAP NO. 3

27498

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
GEORGE R. KENT & ASSOCIATES LTD.		
NARROW LAKE ELECTROMAGNETIC SURVEY EM-16		
RED LAKE - PICKLE LAKE AREA		
DATE: OCT., 1984	SCALE: 1:5,000	BY: M.L./G.R.K.

ASSESSMENT REPORT
ON
MAGNETIC AND ELECTROMAGNETIC
GEOPHYSICAL SURVEYS
OF THE SIX CLAIM
(KRL 621449 - KRL 621454)
MEEN LAKE PROPERTY
OF
DURATION MINES LTD.
AND
WILSHIRE ENERGY RESOURCES INC.
"RED PICKLE PROJECT"

RED LAKE MINING DIVISION
MEEN LAKE SHEET M2239
NTS 52-0-06

LATITUDE 51°28'00"
LONGITUDE 91°24'10"

RECEIVED

NOV 30 1984

MINING LANDS SECTION

Toronto, Ontario
November 23, 1984

George R. Kent, M.Sc. P. Eng.
George R. Kent & Associates Ltd.

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MAPS

PROPERTY AND CLAIM LOCATION MAP	1:25 MILES	MAP NO. 1
GEOLOGICAL MAP	1:5000	MAP NO. 2

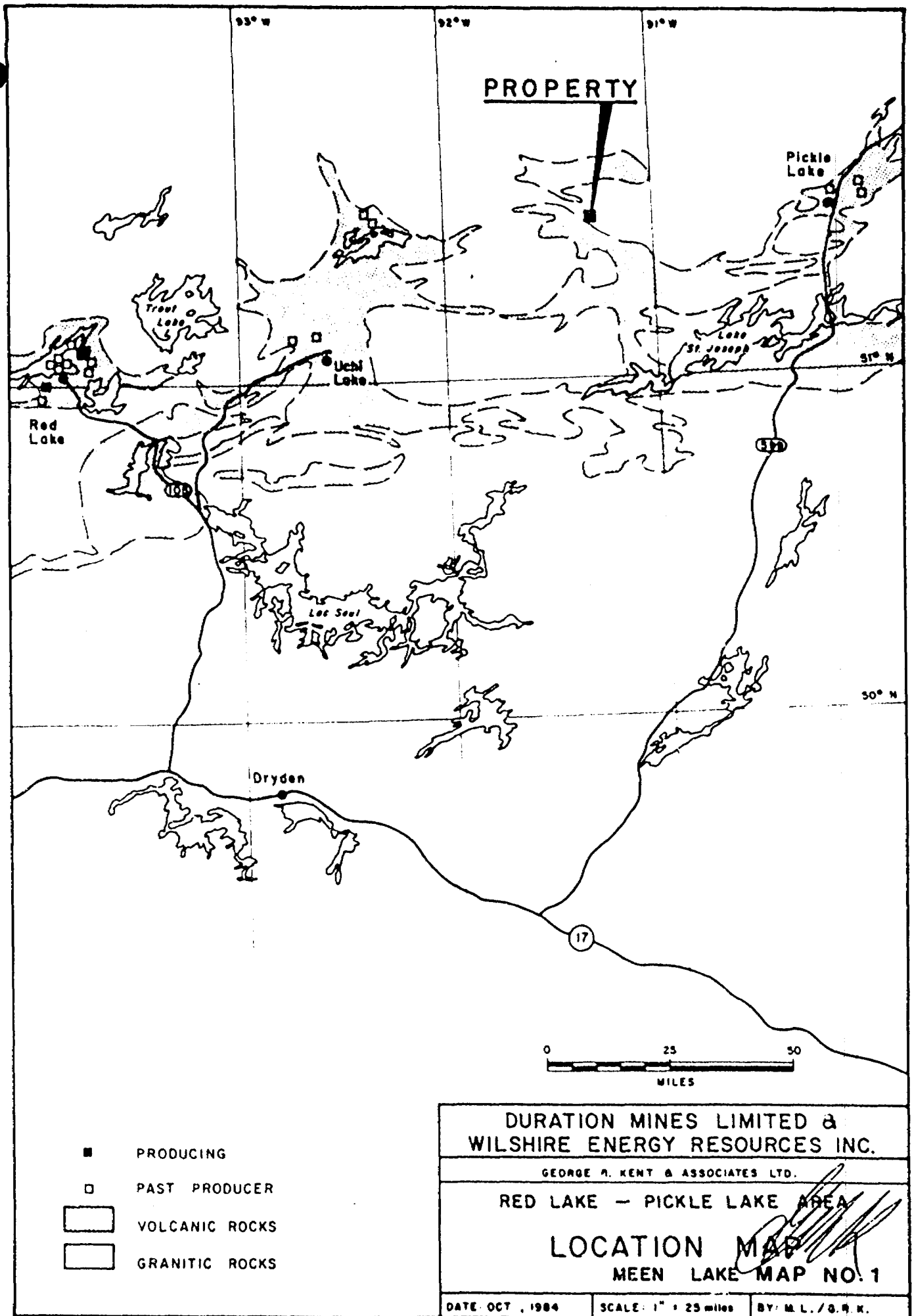
INTRODUCTION

George R. Kent & Associates Ltd. was commissioned by Duration Mines Limited and Wilshire Energy Resources Inc. to carry out geological mapping, magnetometer and electromagnetic surveys on four groups of mineral claims lying between Red Lake and Pickle Lake, Ontario. One of these, an eight claim group known as the Semia Lake Group, is the subject of this geological report.

Two base lines were established east-west across the property by compass and chain for control purposes. Profile lines were turned off normal to the base line at 125 metre intervals, with flagging marked and tied to trees and branches at 25 metre intervals. The lines were systematically traversed from September 7th - 10th, 1984, to effect the surveys. The claims are spruce covered with alders in some stream drainage areas.

PROPERTY LOCATION AND ACCESS

The six claim group (KRL 621449-621454 inclusive) is accessible in summer only by chartered aircraft available from either Red Lake or Pickle Lake but could be approached in winter with some difficulty along rivers and lakes from Pickle Lake 83 kms to the east. A surveyed line between the Red Lake and Patricia Mining Divisions extends to Pickle Lake from a point one mile south of the property and travel could be made along this route by skidoo or other tracked vehicle in winter. Pickle Lake and Red Lake are serviced by regular scheduled airline flights from Dryden 225 kms to the SSW which is connected by daily flights to Thunder Bay and Toronto. Pickle Lake is connected via paved highway to the main Trans Canada Highway at Ignace about 265 kms south. Maps I and II help to further define the location.



PROPERTY

Red Lake

Trout Lake

Uchi Lake

St. Joseph

Pickle Lake

Dryden

0 25 50
MILES

- PRODUCING
- PAST PRODUCER
- ▭ VOLCANIC ROCKS
- ▭ GRANITIC ROCKS

DURATION MINES LIMITED &
WILSHIRE ENERGY RESOURCES INC.
GEORGE A. KENT & ASSOCIATES LTD.
RED LAKE - PICKLE LAKE AREA
LOCATION MAP
MEEN LAKE MAP NO. 1
DATE: OCT, 1984 SCALE: 1" = 25 miles BY: M. L. / G. R. K.

TABLE I

MEEN LAKE CLAIMS

OWNER: Duration Mines Ltd. as to 50 percent
 Wilshire Energy Resources Inc. as to 50 percent

LOCATION: Meen Lake (Meen Lake Sheet M2239)
 Latitude 51°28'00"
 Longitude 91°24'10"

PROPERTY: Six Mineral Claims

<u>CLAIMS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>	<u>EXTENSION</u>	<u>LEASE DATE</u>
KRL 621449-621454 incl.	83-03-05	84-03-25	84-09-26	88-03-25

ENVIRONMENT

The property is near uniformly forested with over thirty foot high spruce except for a 20 acre lake and surrounding marsh in the east central part and a 10 acre area (north central) where the spruce trees range from only 10-20 feet. Some alders occur in stream drainage area and some patches of "blow down" occur along the shore of Meen Lake. A cut NS line traverses the west side of the property. A fair amount of outcrop occurs and no evidence of previous exploration was reported by the field crews.

HISTORY

According to Map No. 2218 ODM, 1972, there is a gold showing on the property and there is some mention of work having been done to the north west. However, there is no work of assessment detail on file in either Toronto or Red Lake.

WORK DONE

A paced and flagged grid laid off by compass was used for control of the geophysical surveys. Stations were successively occupied and read at twenty-five metre intervals with both instruments on all profile lines, and additionally along the east west base line with the magnetometer. Diurnal corrections were made and the results were plotted in plan and profile respectively. These maps record all of the field data obtained and are included with the text and in the rear pocket.

MAGNETOMETER SURVEY

The magnetometer, a Geometrics Model G816/826 proton total field instrument was used to measure the magnetic surface intensity at successive 25 metre station intervals on all profile and base lines of the grid. Diurnal corrections were effected by doubling back from line to line and by periodic readings of base and sub-base stations. The results were plotted on a 1:5000 scale map (Map No. 2).

A 100 - 150 metre wide band of magnetic iron formation trends NW across the property though outcrop suggests that the causative body is granite or other granitoid rocks. A thin, internal, laterally intermitted, narrow low, suggests a possible acid sill or that the granitics have another trend (N40°E). A near coincident EM conductor suggests that the former is more likely.

A second thin (50m+) band of magnetic iron formation roughly parallels the wide band above and is about 350 m to the south. It is also characterized by a coincident or near coincident VLF EM conductor of moderate strength and south dip.

A third and possible even less continuous band of narrow (50 m+) iron formation peaks about 5500 gammas above background. It is about 200 m south of the

narrow band mentioned above and may continue east or west into the lake, and beyond the confines of the property. There does not appear to be an EM conductor associated with this magnetic anomaly.

The magnetic survey suggests that the property is predominately underlain with basic metavolcanics intercalated with either pyrrhotite or magnetic (sulphide/oxide) iron formation. Only minor granitoid rocks are thought to be present.

ELECTROMAGNETIC SURVEY

A Geonics VLF-EM16 was used to measure the In Phase and Out of Phase components of the vertical magnetic field as a percentage of the horizontal primary field. The resolution of these components was believed to be $\pm 1\%$. All readings were taken using Cutler Main (NAA) transmitting at 17.8 KHz and all readings were taken facing north.

The three conductors indicated seem to parallel lithological trends and contacts.

CONCLUSIONS AND RECOMMENDATIONS

Quartz veins, pyrite and pyrrhotite outcrop in a few locations within three magnetically high, parallel bands which vary from 200 - 50 metres wide. They occur in background basic metavolcanics of lesser intensity. Granite and pyroxenite are considered of minor extent.

Lithological contacts, i.e. sharp magnetic contrast, are partially supported by coincident EM conductors which are probably sheared.

A gold occurrence reported on four mile OGS Map No. 2218 has not been ground located.

Soil, humus sampling and perhaps overburden drilling are required to assess the presence of possibly significant gold mineralization.

SUMMARY OF EXPENDITURES

VLF EM 16	9.100 X \$ 90 =	819.00
MAGNETOMETER SURVEY	11.600 X \$ 90 =	<u>1,044.00</u>
		1,863.00
TRAVEL MOB & DEMOB		525.00
REPORTS		<u>700.00</u>
		3,088.00
ADMIN.		<u>308.80</u>
		3,396.80

AUTHOR'S QUALIFICATIONS

EDUCATION: B.Sc., Saint Francis Xavier University, 1956.
M.Sc., Dalhousie University 1962.

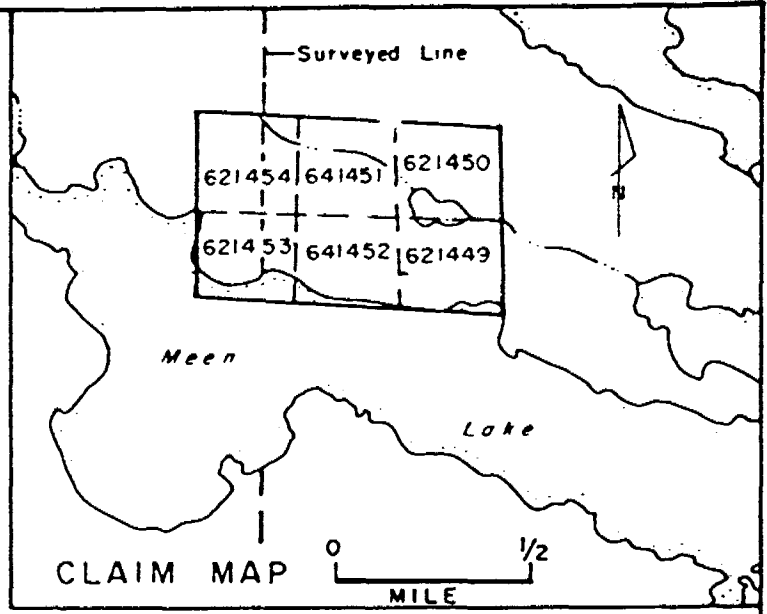
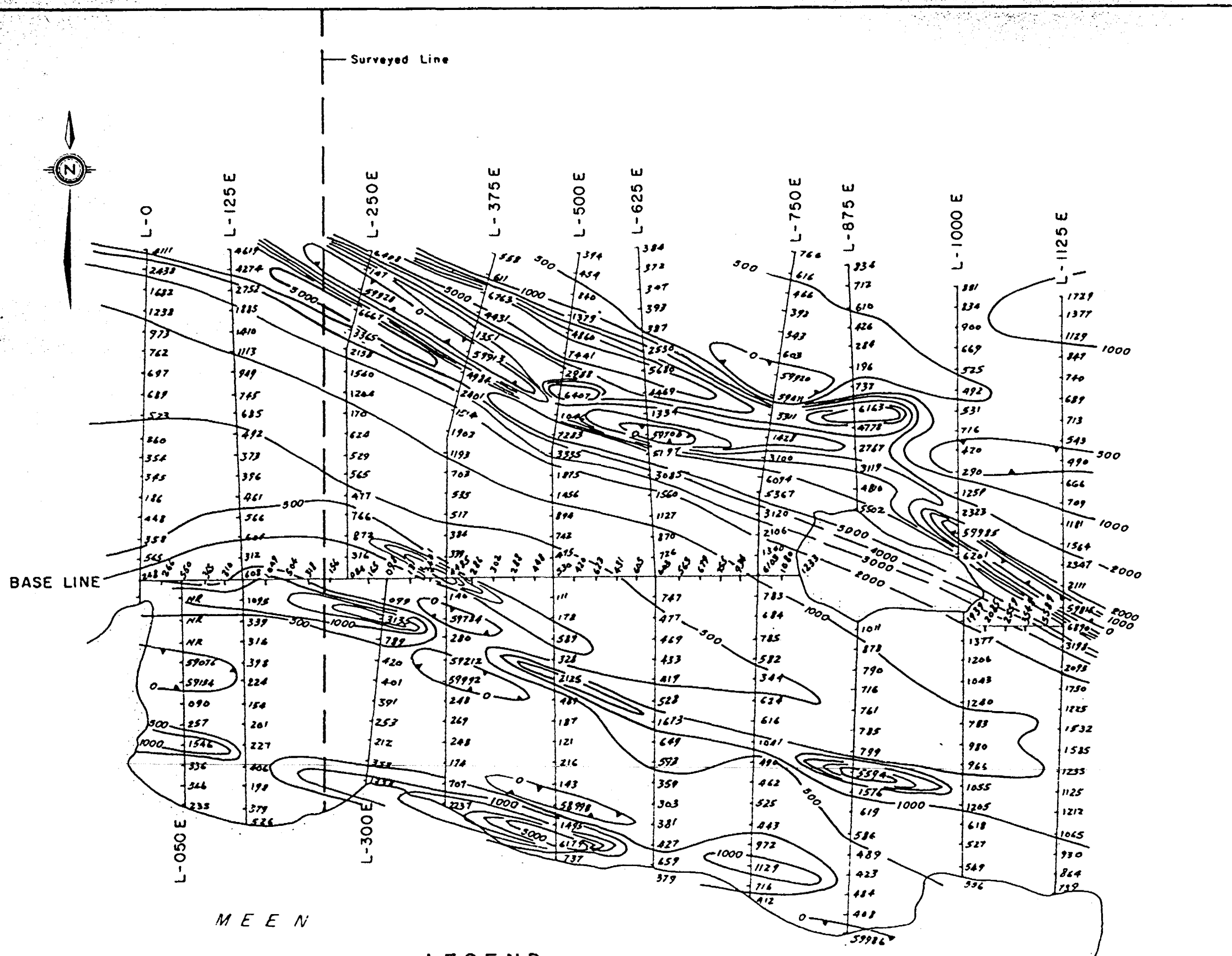
MEMBERSHIPS: Member of the Association of Professional Engineers of Ontario.

EXPERIENCE: More than twenty-five years in mineral exploration including eleven years in the consulting business.

George R. Kent, M.Sc., P. Eng.

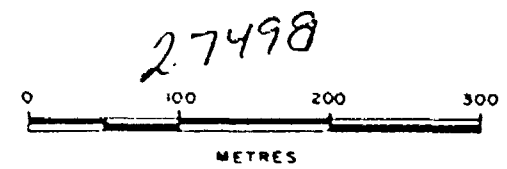
A handwritten signature in cursive script, appearing to read "George R. Kent".

George R. Kent & Associates Ltd.
President



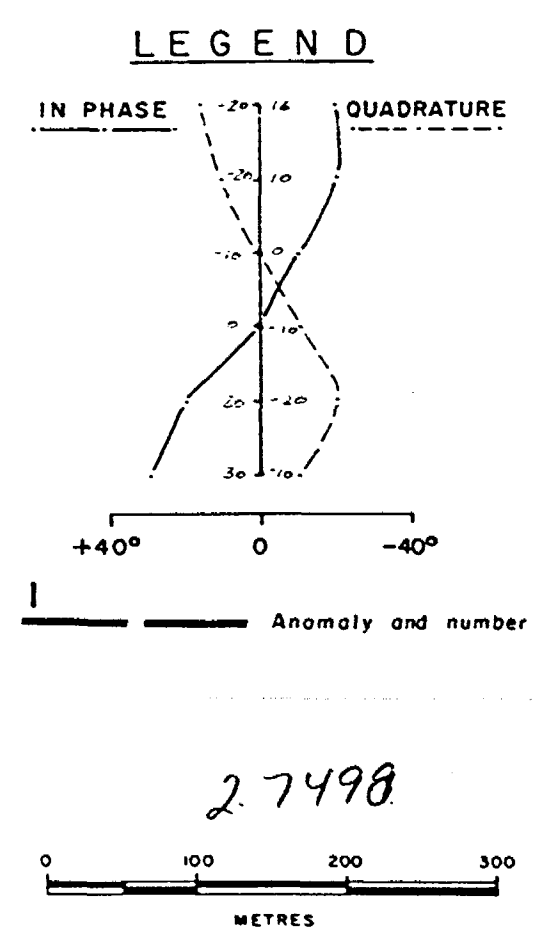
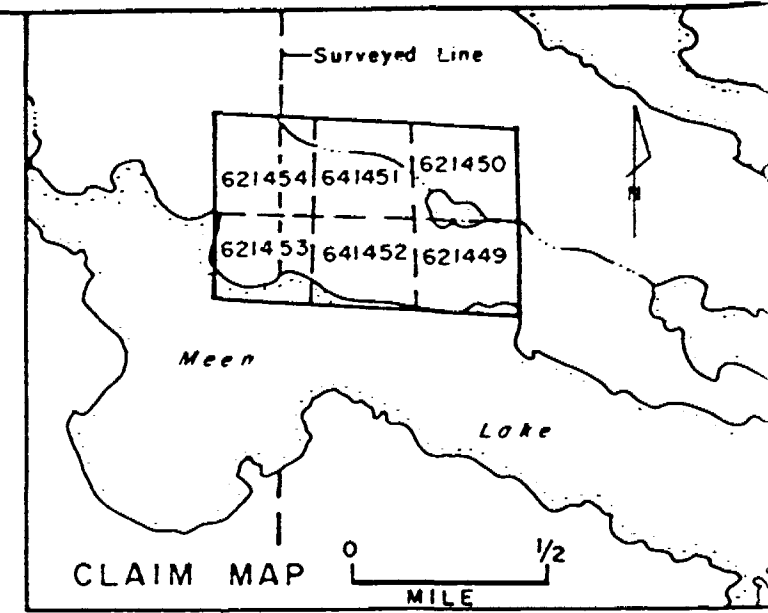
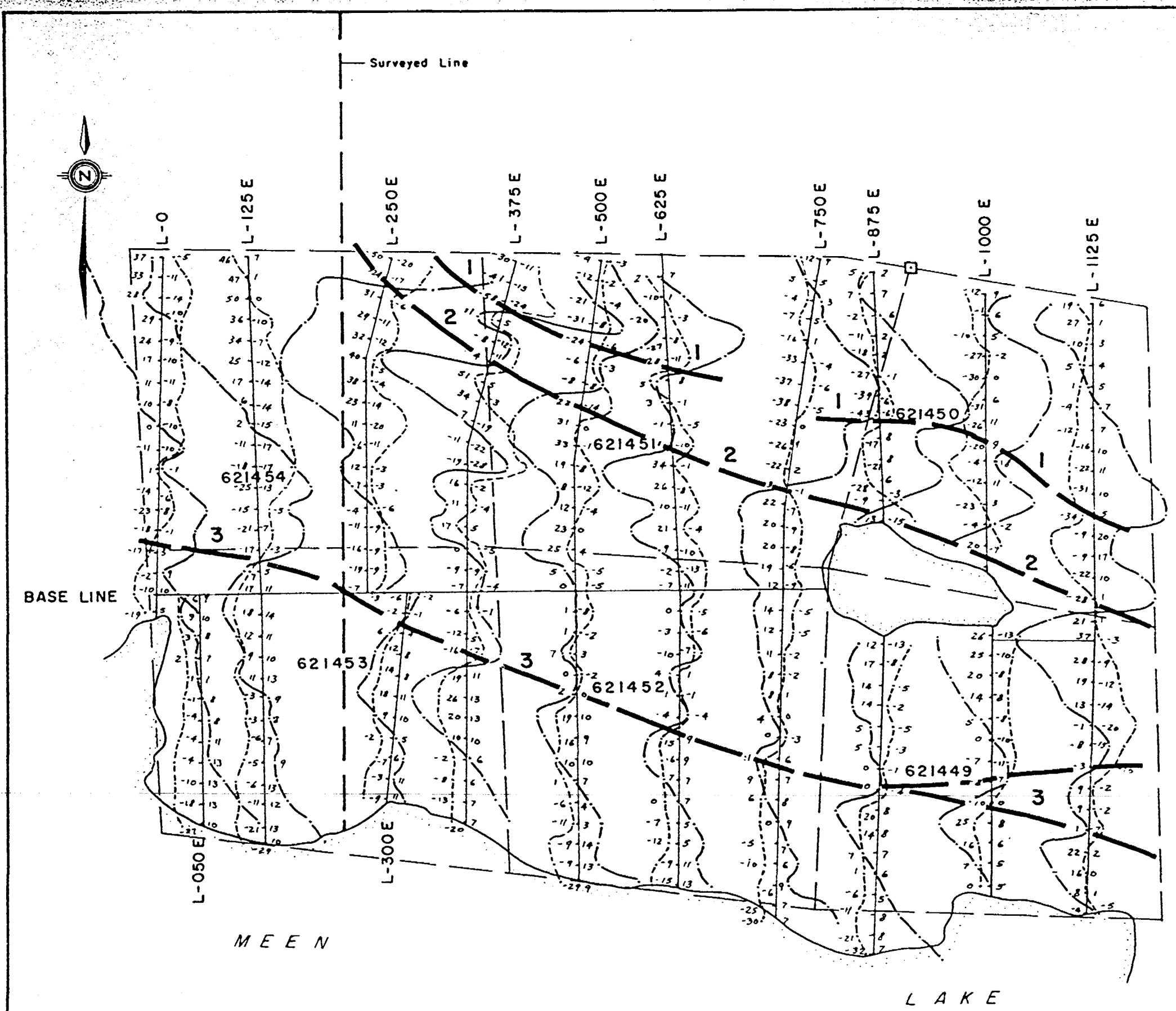
LEGEND

- 2237 Values in gammas
- NOTE: 60000 gammas omitted unless otherwise indicated
- Mag contours
- Mag low



NTS 52/0/6
MAP NO.2

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.
 GEORGE R. KENT & ASSOCIATES LTD.
 MEEN LAKE
MAGNETOMETER SURVEY
 RED LAKE — PICKLE LAKE AREA
 DATE OCT. 1984 SCALE: 1:5,000 BY ML/GRR



NTS 52/0/6
MAP NO.3

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.

GEORGE R. KENT & ASSOCIATES LTD.

MEEN LAKE ELECTROMAGNETIC SURVEY EM-16

RED LAKE - PICKLE LAKE AREA

DATE: OCT., 1984 SCALE: 1:5,000 BY: M.L./G.R.K.

ASSESSMENT REPORT
ON
MAGNETIC AND ELECTROMAGNETIC
GEOPHYSICAL SURVEYS
OF THE EIGHT CLAIM
(KRL 621455 - KRL 621462)
SEMIA LAKE PROPERTY
OF
DURATION MINES LIMITED
AND
WILSHIRE ENERGY RESOURCES INC.
"RED PICKLE PROJECT"

RED LAKE MINING DIVISION
MCVICAR LAKE SHEET G2121
NTS 52-0-14

LATITUDE 51°31'
LONGITUDE 91°24'

RECEIVED
NOV 30 1984
MINING LANDS SECTION

Toronto, Ontario
November 23, 1984

George R. Kent, M.Sc. P. Eng.
George R. Kent & Associates Ltd.

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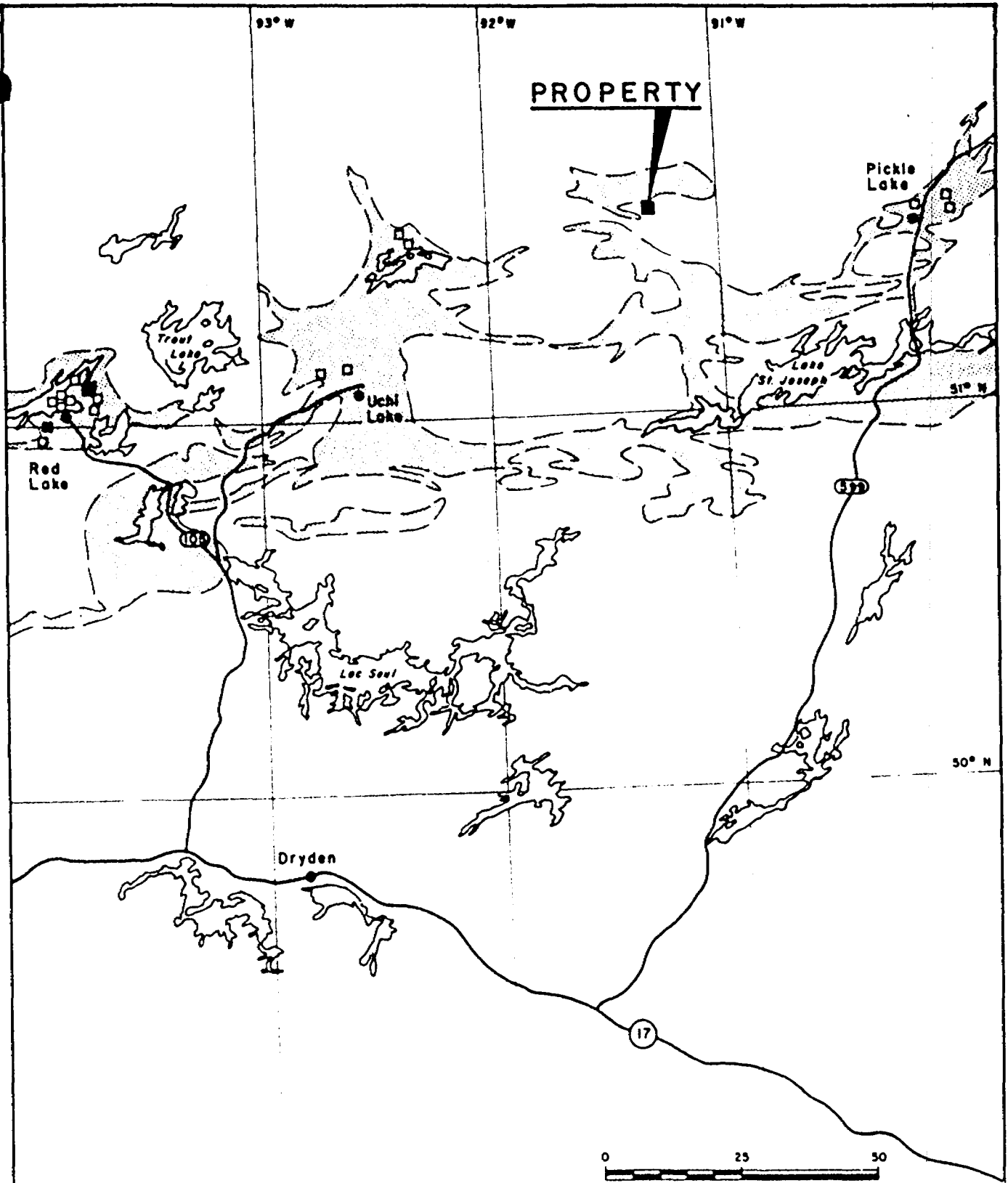
INTRODUCTION

George R. Kent & Associates Ltd. was commissioned by Duration Mines Limited and Wilshire Energy Resources Inc. to carry out geolocal mapping, magnetometer and electromagnetic surveys on four groups of mineral claims lying between Red Lake and Pickle Lake, Ontario. One of these, an eight claim group known as the Semia Lake Group, is the subject of this geophysical report.

Two base lines were established east-west across the property by compass and chain for control purposes. Profile lines were turned off normal to the base line at 125 metre intervals, with flagging marked and tied to trees and branches at 25 metre intervals. The lines were systematically traversed from September 1-5th, 1984, to effect the surveys. The claims are essentially covered with black spruce. Willow and alders occur along some streams. Much of the area south of Semia Lake is underlain with glacial sand and gravel plain.

PROPERTY LOCATION & ACCESS

The eight claim group (KRL 621455-621462 incl.) is accessible in summer only by chartered float plane from either Red Lake or Pickle Lake, but could be approached in winter with some difficulty along rivers and lakes from Pickle Lake, 83 kms to the east. Surveyed lines extend six kilometres due south of the property and then due east to Pickle Lake and it is assumed that winter travel could also be made along this route by skidoo or other tracked vehicle. A canoe was used to facilitate easier access along Semia Lake. Pickle Lake and or Red Lake are serviced by regular scheduled airline flights from Dryden 230 kms to the SSW, which is connected by daily flights to Thunder Bay and Toronto. Pickle Lake is connected via paved highway to the main Trans Canada Highway at Ignace about 270 kms south. Maps I and II help to further define the location.



- PRODUCING
- PAST PRODUCER
- ▭ VOLCANIC ROCKS
- ▭ GRANITIC ROCKS

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
<small>GEORGE R. KENT & ASSOCIATES LTD.</small>		
RED LAKE - PICKLE LAKE AREA		
LOCATION MAP		
SEMIA LAKE MAP NO. 1		
<small>DATE: OCT., 1984</small>	<small>SCALE: 1" = 25 miles</small>	<small>BY: M.L./G.R.K.</small>

TABLE I

Semia Lake Claims

OWNER: Duration Mines Ltd. as to 50 percent
 Wilshire Energy Resources Inc. as to 50 percent

LOCATION: McVicar Lake Arera (G2121)
 Latitude 51°31'
 Longitude 91°24'

PROPERTY: 8 Mineral Claims

<u>CLAIMS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>	<u>EXTENSION</u>	<u>LEASE DATE</u>
KRL 621455 - 621462 INCL.	83-03-25	84-03-25	84-09-26	88-03-25

ENVIRONMENT

The property is generally low in relief with a base elevation of 400 feet at Semia Lake. The southernmost four claims (KRL 621455, 621460 - 462 incl.) are largely forested with greater than 25 high spruce and balsam with 4-6 inch trunks. Uniform forrestation has occurred south of Semia Lake with the exception of a stream trending NE across claim 621445 where heavy alders are abundant. The northern four claims are characterized by irregular 30' high spruce and balsam patches, 40% is dense 10-25' high jack pine and spruce, 30% with 10 foot high spruce and 30% by muskeg, lakes, and some stands of mixed spruce and deciduous tree types. Semia Lake is relatively clear and apparently unpolluted.

HISTORY

Pickle Patricia Explorers Ltd. did some work on the property in 1962 and Cominco did some airborne and ground magnetic and electromagnetic surveying in 1978 and 1979. Five drill holes are reported to have been drilled on the property of which four were collared from winter lake ice. The 1962

date and geophysical survey method (gravimeter) suggest that the prime target was base metals. Little evidence was found to substantiate the ground surveys although a few trenches were located immediately south of the lake in the eastern part of the property (KRL 621461). No evidence of former gridding was mentioned by the field crews.

WORK DONE

A paced and flagged grid laid off by compass was used for controlling the geophysical surveys. Stations were successively occupied and read at twenty-five metre intervals with both instruments on all profile lines, and also along the east west base line with the magnetometer. Diurnal corrections were made and the results were plotted in plan and profile respectively. These maps record all of the field data obtained and are included in the rear pocket and/or with the text.

MAGNETOMETER SURVEY

The magnetometer, a Geometrics Model G816/826 proton total field instrument was used to measure the magnetic surface intensity at successive 25 metre station intervals on all profile and base lines of the grid. Diurnal corrections were effected by doubling back from line to line and by periodic readings of base and sub-base stations. The results were plotted on a 1:5000 scale map (Map No. 2) which is enclosed.

Two parallel magnetic anomalies 400 metres apart traverse the property in a northwesterly direction. The southernmost is just over 200 metres wide and is more intense than the other which is just under 200 metres wide. Observed pyrrhotite mineralization and some mentioned in drill core no doubt constitutes the iron formation and "S" (sulphides) indicated on government maps.

ELECTROMAGNETIC SURVEY

A Geonics VLF-EM16 was used to measure the In Phase and Out of Phase components of the vertical magnetic field as a percentage of the horizontal primary field. The resolution of these components was believed to be $\pm 1\%$. All readings were taken using Culter Main (NAA) transmitting at 17.8 KHz and all readings were taken facing north.

CONCLUSIONS AND RECOMMENDATIONS

The magnetic survey has outlined what looks like two bands of steeply dipping metavolcanic greenstone, trending in a northwesterly direction. The southernmost is accompanied, at least partially, with magnetic iron formation. The low intensity of the intervalcanic and SW area suggests metasediments and elsewhere sufficient outcrop exists to allow a reasonably good interpretation.

The 3 Series VLF anomalies because of their limited strike length and position within metasediments downgrades their importance. Anomaly No. 4 (Map 3) is of near infinite length and for that reason alone is of little interest to say nothing of its position within migmatized felsic intrusives. Other 4 a and 4 b anomalies of shorter strike length have no significant magnetic correlation and are similarly of little interest.

The 1 and 1a series anomalies are strong bedrock anomalies, for the most part, likely to be in iron formation.

SUMMARY OF EXPENDITURES

VLF EM-16	12.04 @ \$90/km	=	1,083.60
Magnetometer	14.165 @ \$90/km	=	<u>1,274.85</u>
			2,358.45
Travel Mob & demob			525.00
Reports and drafting			<u>700.00</u>
			3,583.45
Admin.			<u>358.34</u>
			3,941.79

AUTHOR'S QUALIFICATIONS

EDUCATION: B.Sc., Saint Francis Xavier University, 1956.
M.Sc., Dalhousie University, 1962.

MEMBERSHIPS: Member of the Association of Professional Engineers of Ontario.

EXPERIENCE: More than twenty-five years in mineral exploration including eleven years in the consulting business.

George R. Kent, M.Sc., P. Eng.

A handwritten signature in cursive script, appearing to read "George R. Kent".

George R. Kent & Associates Ltd.

President

ASSESSMENT REPORT
ON
MAGNETIC AND ELECTROMAGNETIC
GEOPHYSICAL SURVEYS
OF THE EIGHT CLAIM
(KRL 621437 - KRL 621444)
BIRCH LAKE PROPERTY
OF
DURATION MINES LIMITED
AND
WILSHIRE ENERGY RESOURCES INC.
"RED PICKLE PROJECT"

CASUMMIT LAKE SHEET M2695
NTS 52 N/8

LATITUDE $51^{\circ}22'35''$
LONGITUDE $92^{\circ}29'00''$

RECEIVED

NOV 30 1984

MINING LANDS SECTION

Toronto, Ontario
December 23, 1984

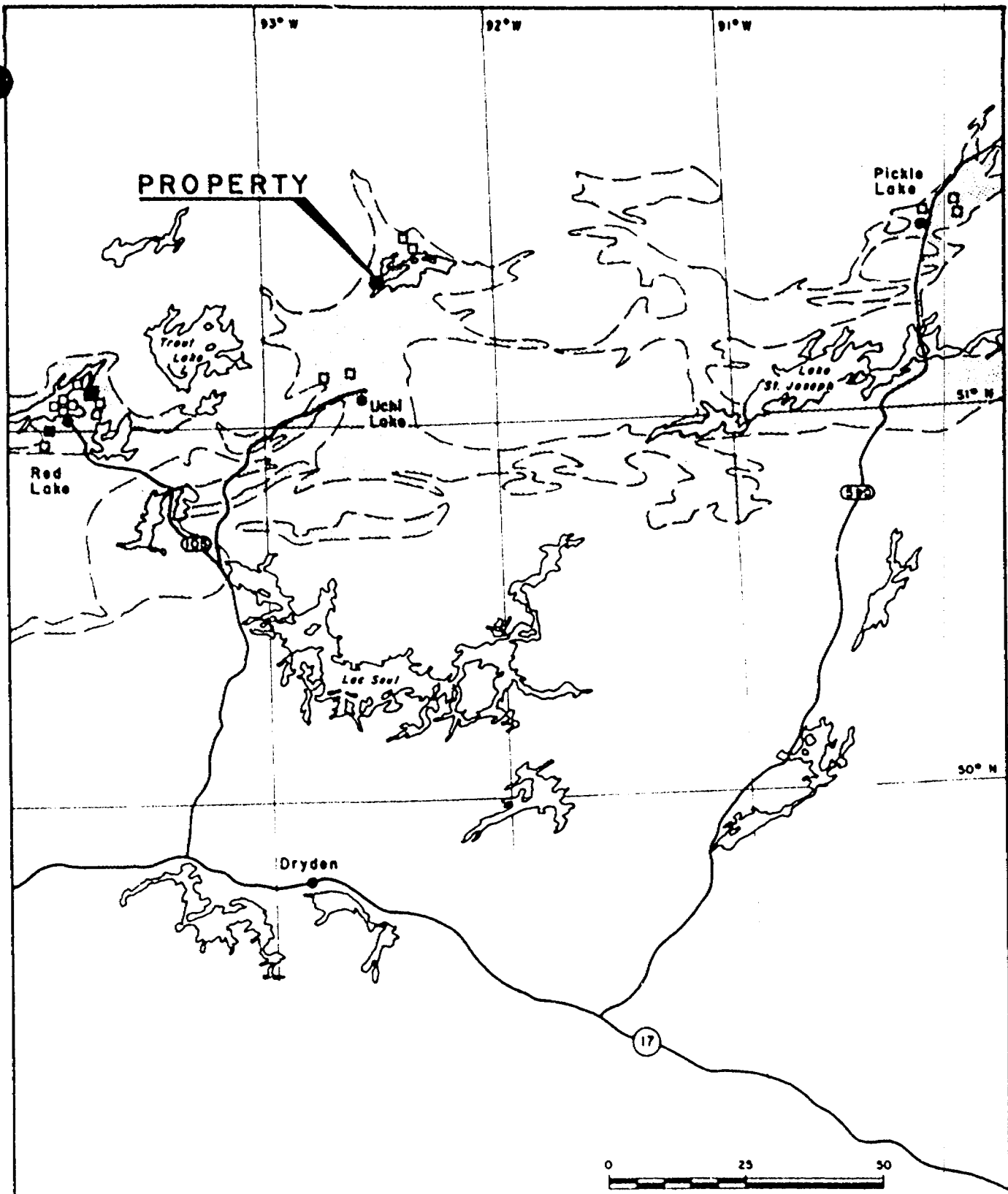
George R. Kent, M.Sc. P. Eng.
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- PRODUCING
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- ▭ GRANITIC ROCKS

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.		
GEORGE R. KENT & ASSOCIATES LTD.		
RED LAKE - PICKLE LAKE AREA		
LOCATION MAP		
BIRCH LAKE MAP NO. 1		
DATE: OCT. , 1984	SCALE: 1" = 25 miles	BY: M.L./G.R.K.

INTRODUCTION

George R. Kent & Associates Ltd. was commissioned by Duration Mines Limited and Wilshire Energy Resources Inc. to carry out geological mapping, magnetometer and electromagnetic surveys on four groups of mineral claims lying between Red Lake and Pickle Lake, Ontario. One of these, an eight claim group known as the Semia Lake Group, is the subject of this geological report.

Two base lines were established east-west across the property by compass and chain for control purposes. Profile lines were turned off normal to the base line at 125 metre intervals, with flagging marked and tied to trees and branches at 25 metre intervals. The lines were systematically traversed from September 11th - 16th, 1984 to effect the survey. The claims are not uniformly forested but show some variation primarily across the strike which is essentially parallel with the glaciation. In the central part of the property there are some patches (<20%) of spruce and balsam more than 30' high while the rest is covered with jack pine between 7 and 10' high. The claim line area between KRL 621443 and 621444 is mostly muskeg and alders with some low jack pine.

PROPERTY LOCATION AND ACCESS

The eight claim group (KRL 621437-621444 incl.) is accessible only by chartered float plane from Pickle Lake or Red Lake, Ontario, 170 or 110 kms to the east and west respectively. It is 35 kms ENE of Uchi Lake, the northern road terminus and is 178 kms ENE of Dryden in the Trans Canada Highway and Canadian Pacific rail line. Dryden is 300 kms NW of Thunder Bay, Ontario. The property could best be approached overland and along lakes and rivers from Uchi in the winter. Pickle Lake and Red Lake are serviced by regular scheduled airline flights from Dryden, where Nordair has daily connecting flights to Thunder Bay and Toronto.

TABLE I

BIRCH LAKE CLAIMS

OWNER: Duration Mines Ltd. as to 50 percent
Wilshire Energy Resources Inc. as to 50 percent

LOCATION: Birch Lake (Casummit Lake Sheet M2695)
Latitude 51°22'35"
Longitude 92°29'00"

PROPERTY: Eight Mineral Claims

<u>CLAIMS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>	<u>EXTENSION</u>	<u>LEASE DATE</u>
KRL 621437-621444 incl.	83-03-25	84-03-25	84-09-26	88-03-25

ENVIRONMENT

The claims are covered with black spruce or stag spruce as it is called where it is dense and difficult to traverse and by jack pine. Elevation ranges from a base level at the lake of 393 feet to about only 420 feet at the highest point. An old cut line trends NE across the property but otherwise there does not appear to have been any ecological or environmental damage to the property.

HISTORY

There is no recorded history of exploration on the property itself though it is likely that Cannex Placer's work in the adjacent property might have extended onto these claims. The reported occurrence of gold, Map No. 2175 ODM 1970, at two locations on the claims has not been confirmed or denied nor was the presence of any systematic grid lines reported by the field crews. It is thought that Cannex's approach was base metal oriented.

WORK DONE

A base line was established east-west across the property and profile lines were turned off therefrom at 725 metre intervals. All lines were paced and flagged at 25 metre intervals for a total length of 9.315 kilometres. The lines and much of the between line area were mapped geologically with outcrop tied into the grid co-ordinates. The grid was used to control subsequent magnetometer and electromagnetic surveys.

MAGNETOMETER SURVEY

The magnetometer, a Geometrics Model G816/826 proton total field instrument was used to measure the magnetic surface intensity at successive 25 metre station intervals on all profile and base lines of the grid. Diurnal corrections were effected by doubling back from line to line and by periodic readings of base and sub-base stations. The results were plotted on a 1:5000 scale map, (Map No. 2) enclosed.

The northwest half of claim No. 621441 mapped as undifferentiated rhyolite has a low intensity 150-200 gamma positive above background magnetic correlation. On the south it may be flanked east west across the property by rhyolite agglomerate as interpreted from the geology and low magnetic response. Moderately low response on 621440 may represent buried granitic rocks where relief is 500-600 gammas below normal.

ELECTROMAGNETIC SURVEY

A Geonics VLF-EM16 was used to measure the In Phase and Out of Phase components of the vertical magnetic field as a percentage of the horizontal primary field. The resolution of these components was believed to be $\pm 1\%$. All readings were taken using Culter Main (NAA) transmitting at 17.8 KHz and all readings were taken facing north.

The strong conductor at 2 is probably the shallow north contact of the pyroxemite as mapped. While 1 and 1a seem to be repetitious on L1150W and are associated with an alternating magnetic suite, the weak conductor 1a is probably a swamp.

CONCLUSIONS AND RECOMMENDATIONS

The magnetic survey seems to show a characteristic response over undifferentiated rhyolite (2) and rhyolite agglomerate 2c. However, an unexplained negative, small, magnetic anomaly on 621440 may be a granitic centre with alternating greenstone and granitic rocks to the west (mag and EM) and possibly as well to the east between EM 1 and 1a. The coincident or nearly coincident mag and EM where gold mineralization is recorded on Ontario Government four mile map No. 2175 may be significant and should be followed up with soil or humus sampling. Quartz veining was noted nearby.

EM anomaly 2 seems to follow the NW margin of a mapped pyroxenite. Soil or humus sampling is again required.

SUMMARY OF EXPENDITURES

MAGNETOMETER SURVEY	9.60 KMS @ \$90	864.00
VLF ELECTROMAGNETIC SURVEY	8.43 KMS @ \$90	<u>758.70</u>
		1,622.70
TRAVEL MOB & DEMOB		525.00
REPORTS, DRAFTING & TYPING		<u>700.00</u>
		2,847.70
ADMIN.		<u>284.80</u>
		3,132.50

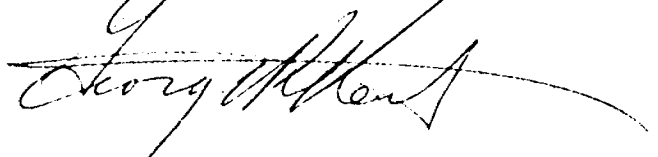
AUTHOR'S QUALIFICATIONS

EDUCATION: B.Sc., Saint Francis Xavier University, 1956.
M.Sc., Dalhousie University 1962.

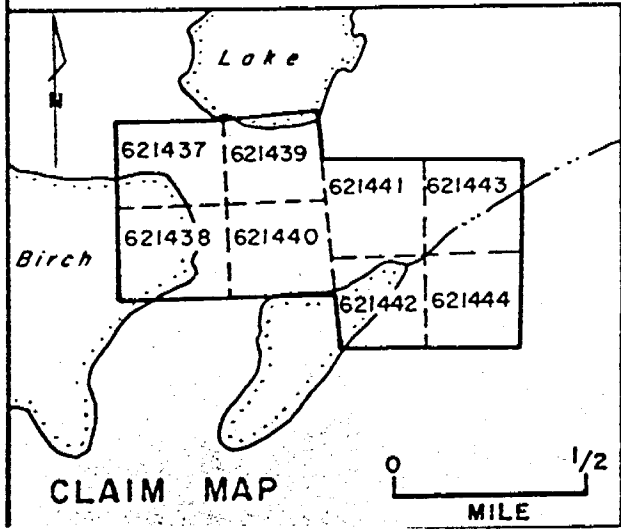
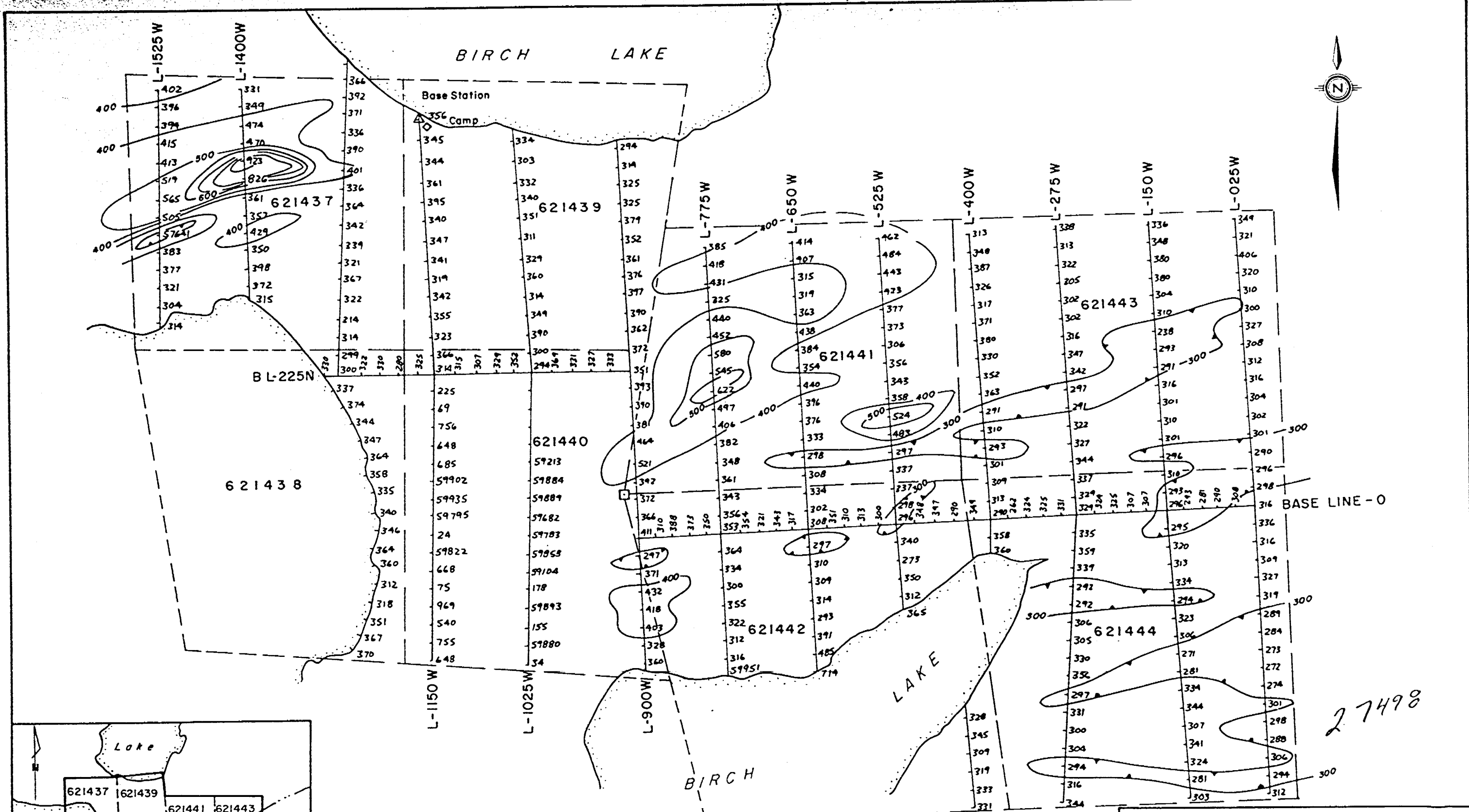
MEMBERSHIPS: Member of the Association of Professional Engineers of Ontario.

EXPERIENCE: More than twenty-five years in mineral exploration including eleven years in the consulting business.

George R. Kent, M.Sc., P. Eng.

A handwritten signature in cursive script, appearing to read "George R. Kent", written over a horizontal line.

George R. Kent & Associates Ltd.
President



LEGEND

- 755 Values in gammas
- NOTE: 60000 gammas omitted unless otherwise indicated
- Mag contours
- Mag low

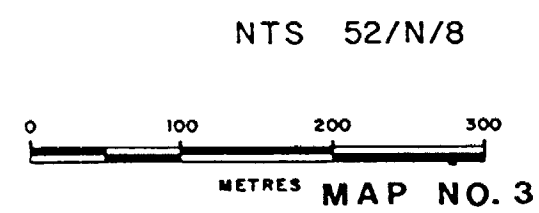
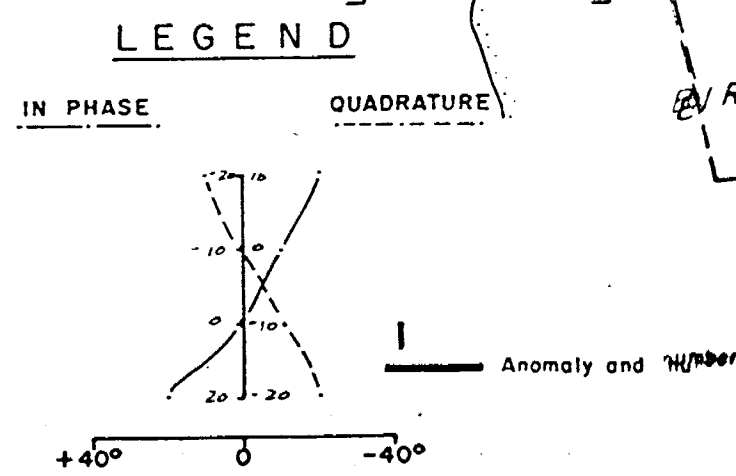
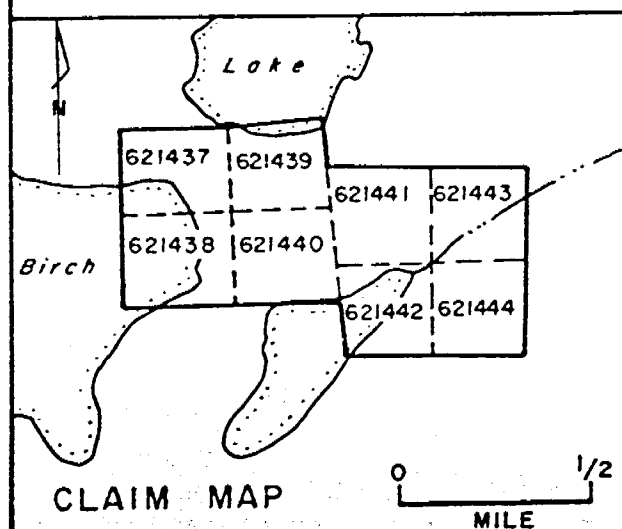
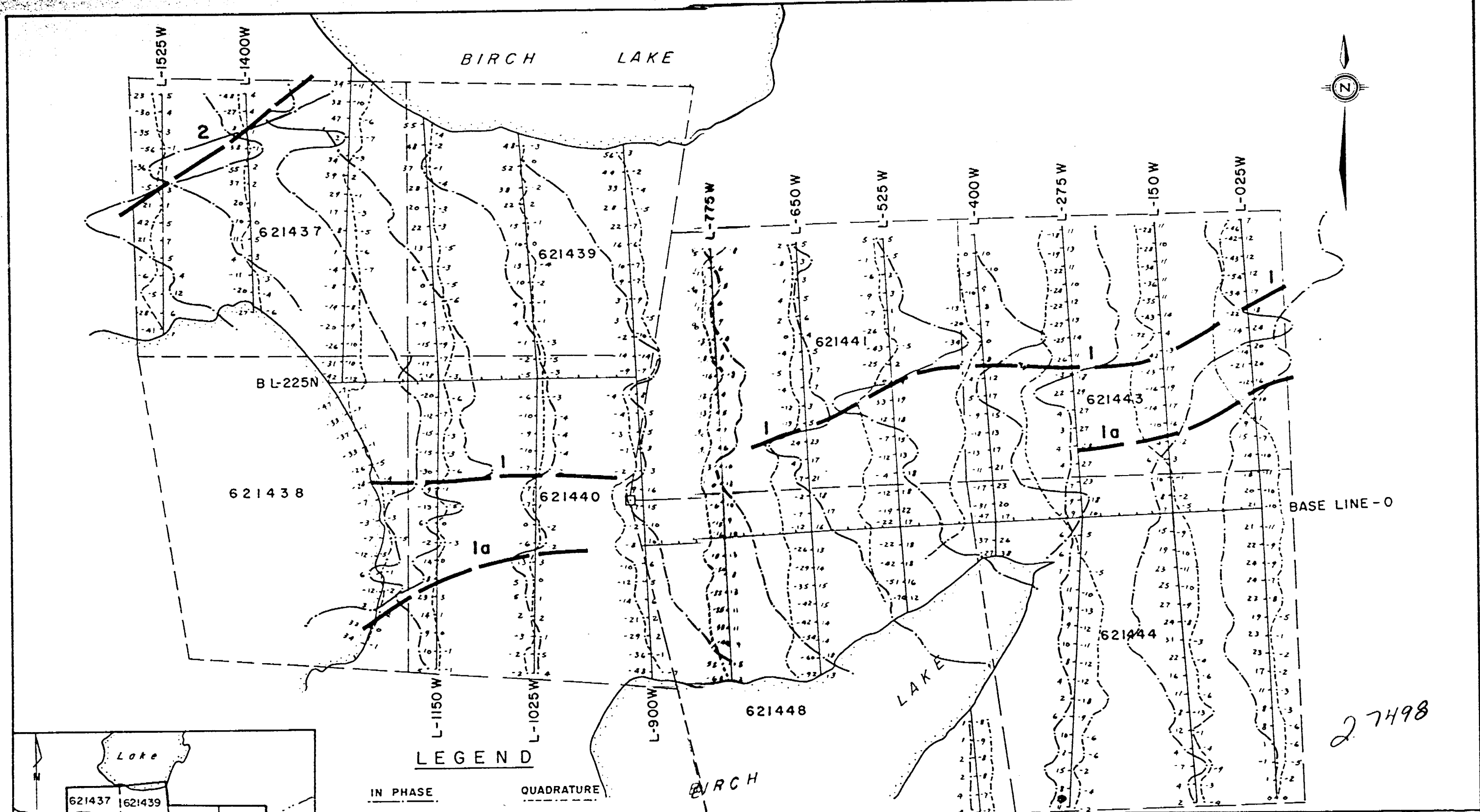


NTS 52/N/8

MAP NO. 2

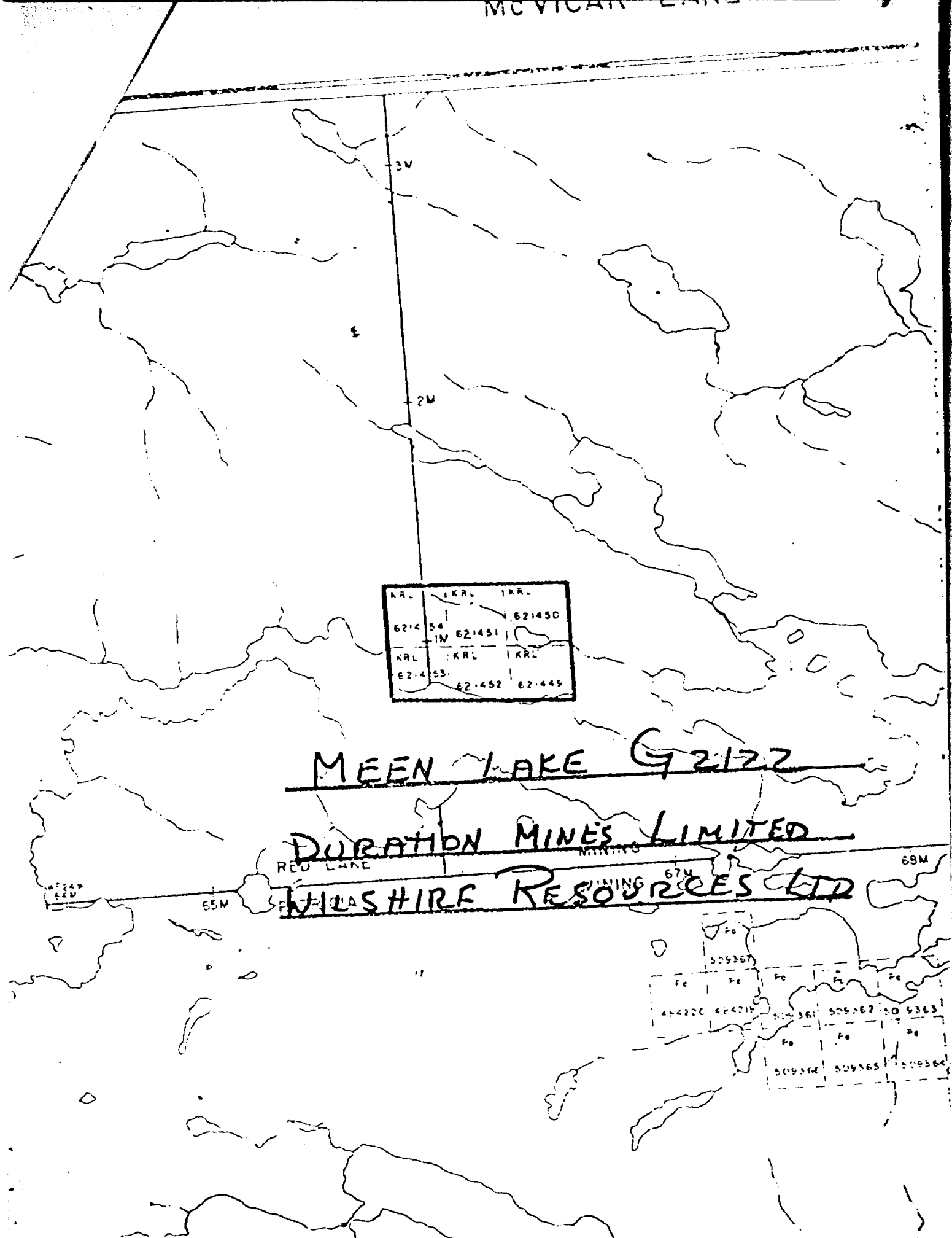
DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.
 GEORGE R. KENT & ASSOCIATES LTD.
 BIRCH LAKE
MAGNETOMETER SURVEY
 RED LAKE - PICKLE LAKE AREA

DATE: OCT., 1984 SCALE: 1:5,000 BY: M.L./G.R.K.



DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.
 GEORGE R. KENT & ASSOCIATES LTD.
BIRCH LAKE ELECTROMAGNETIC SURVEY
 EM-16
 RED LAKE - PICKLE LAKE AREA
 DATE: OCT., 1984 SCALE: 1:5,000 BY: M.L./G.R.K.

NTS 52/N/8



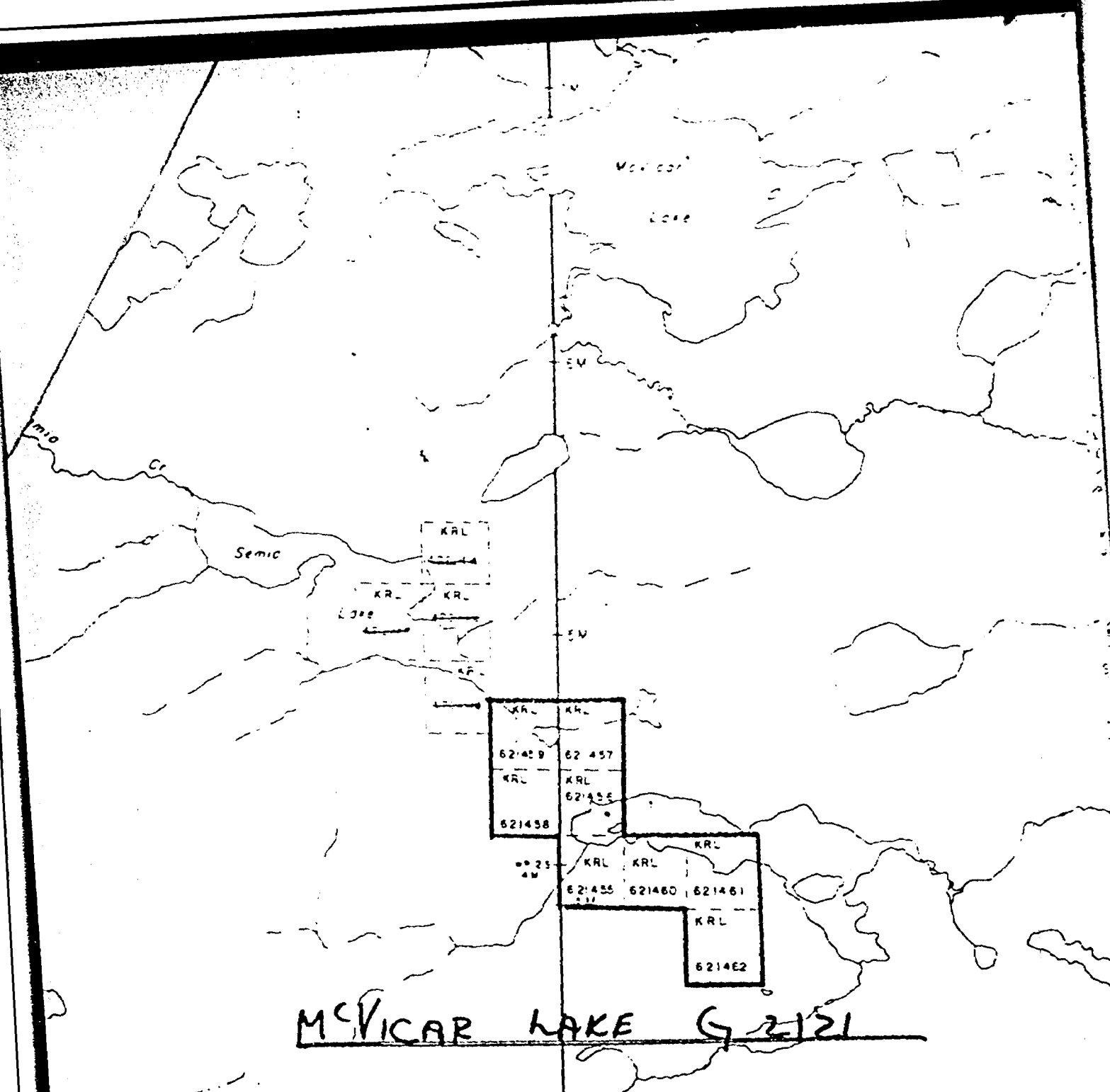
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KRL	KRL	KRL
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MEEN LAKE 92172

DURATION MINES LIMITED

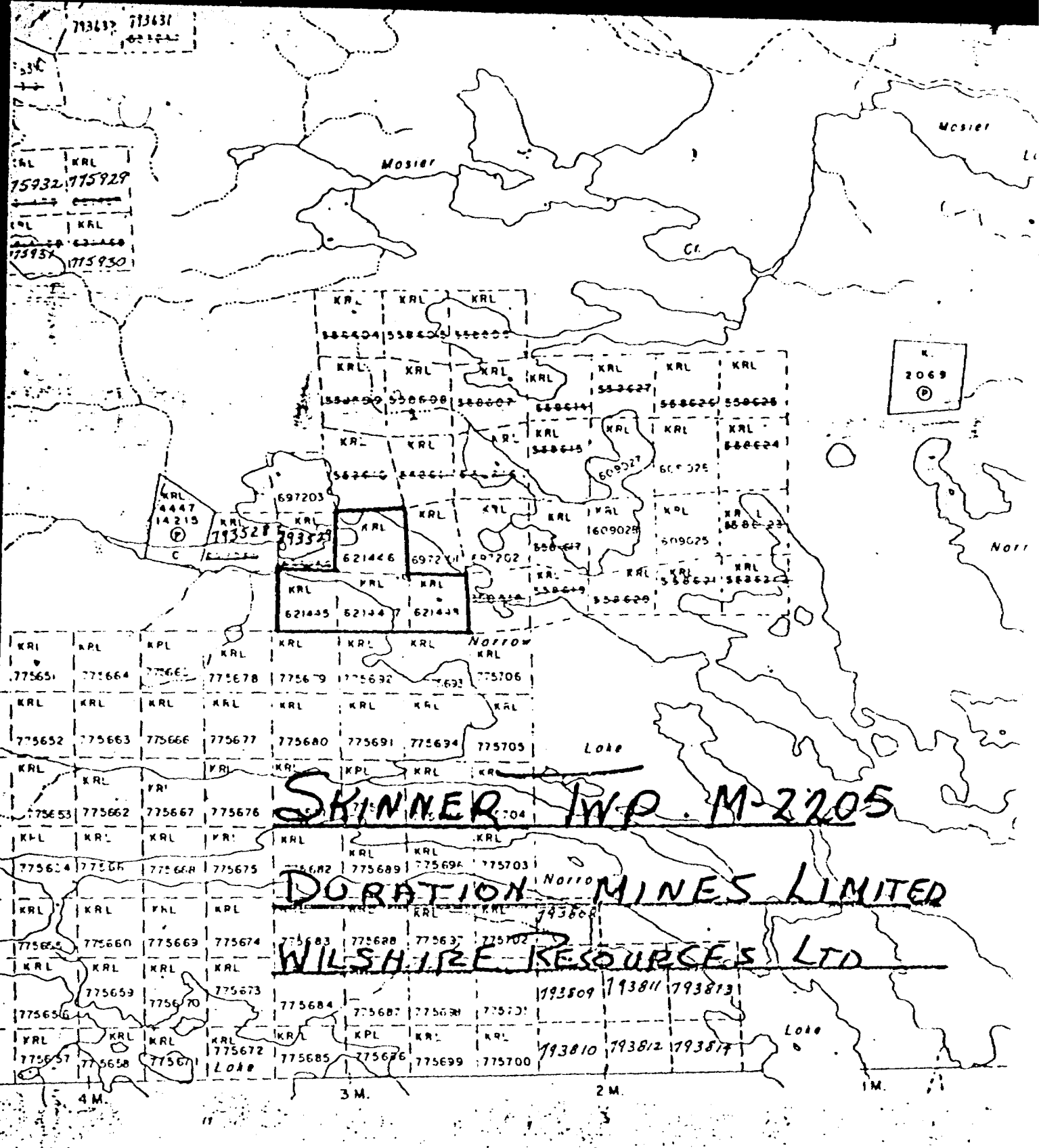
WILSHIRE RESOURCES LTD

509367	Fe
444220	Fe
509361	Fe
509362	Fe
509363	Fe
509364	Fe
509365	Fe
509366	Fe



McVICAR LAKE G-2121

26' DURATION MINES LIMITED 22'
 25' WILSHIRE RESOURCES LTD 23' G-2122



713637 713631
621445

KRL KRL
75932 775929
KRL KRL
631460
775951 775950

MOSIER

MOSIER

C.I.

K
2069
D

KRL
4447
14215
C

775528

775529

621446

697201

697202

697203

697204

697205

697206

697207

697208

697209

697210

KRL	KRL	KRL	KRL	KRL	KRL	KRL	Narrow
775651	775664	775665	775678	775679	775692	7632	KRL
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775653	775662	775667	775676	775682	775689	775696	775703
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775654	775665	775668	775675	775683	775688	775697	775702
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SKINNER IWP M-2205

DORATION MINES LIMITED

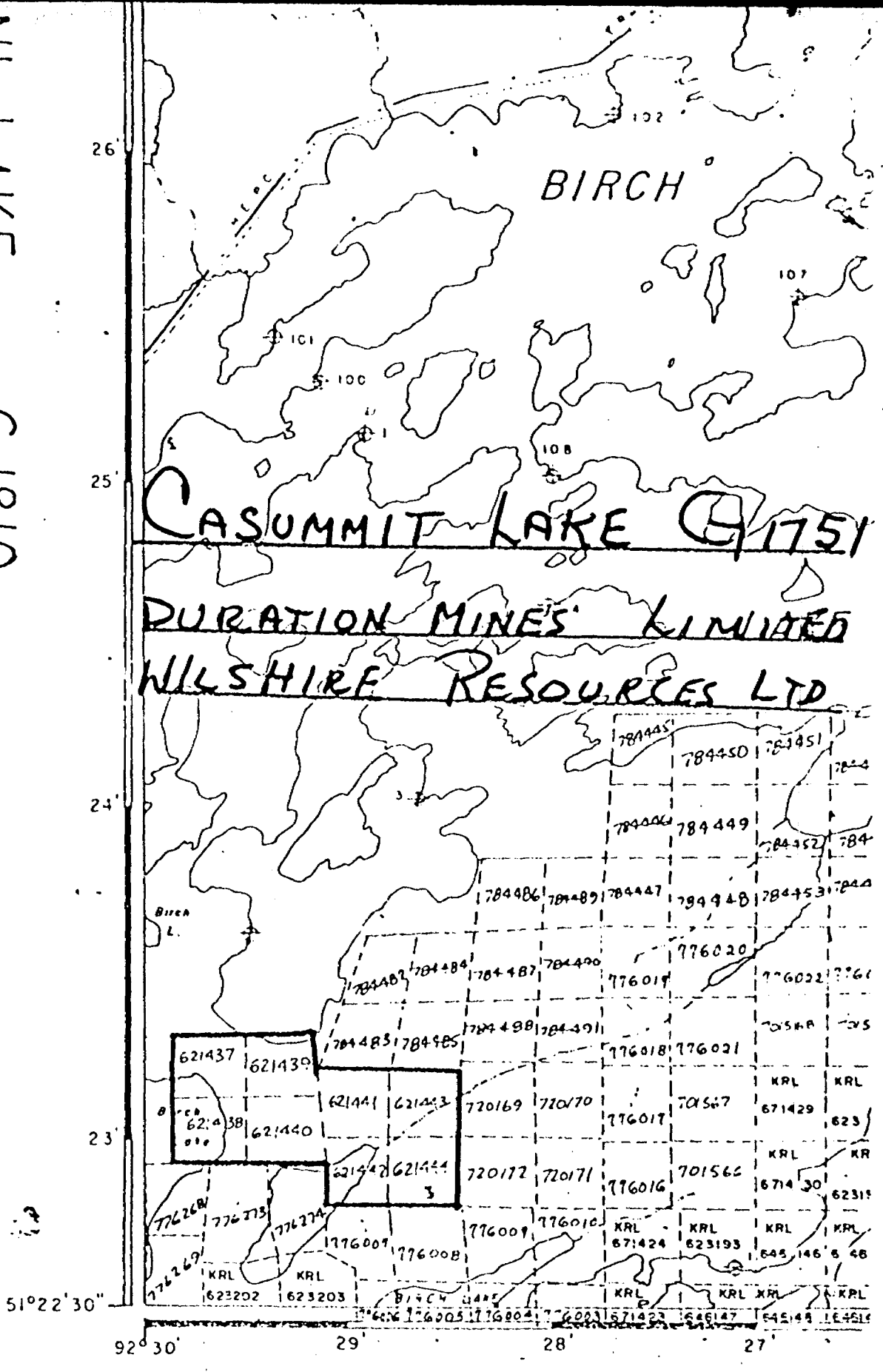
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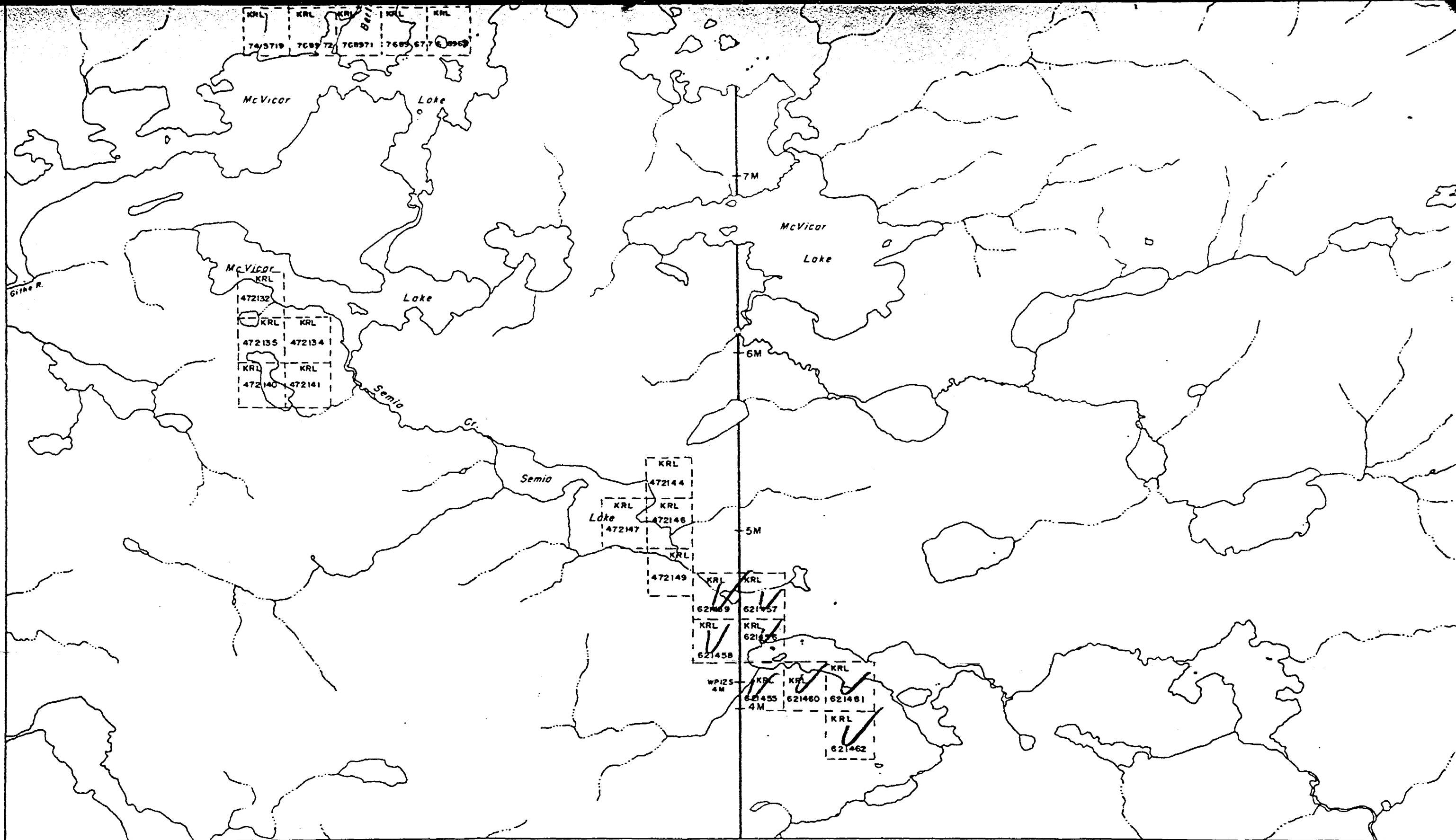
51°22'30"

92°30'

29

28

27



91°30' 29' 28' 27' 26' 25' 24' 23' 22' 21' 20' 19'

McVICAR LAKE
G-2121

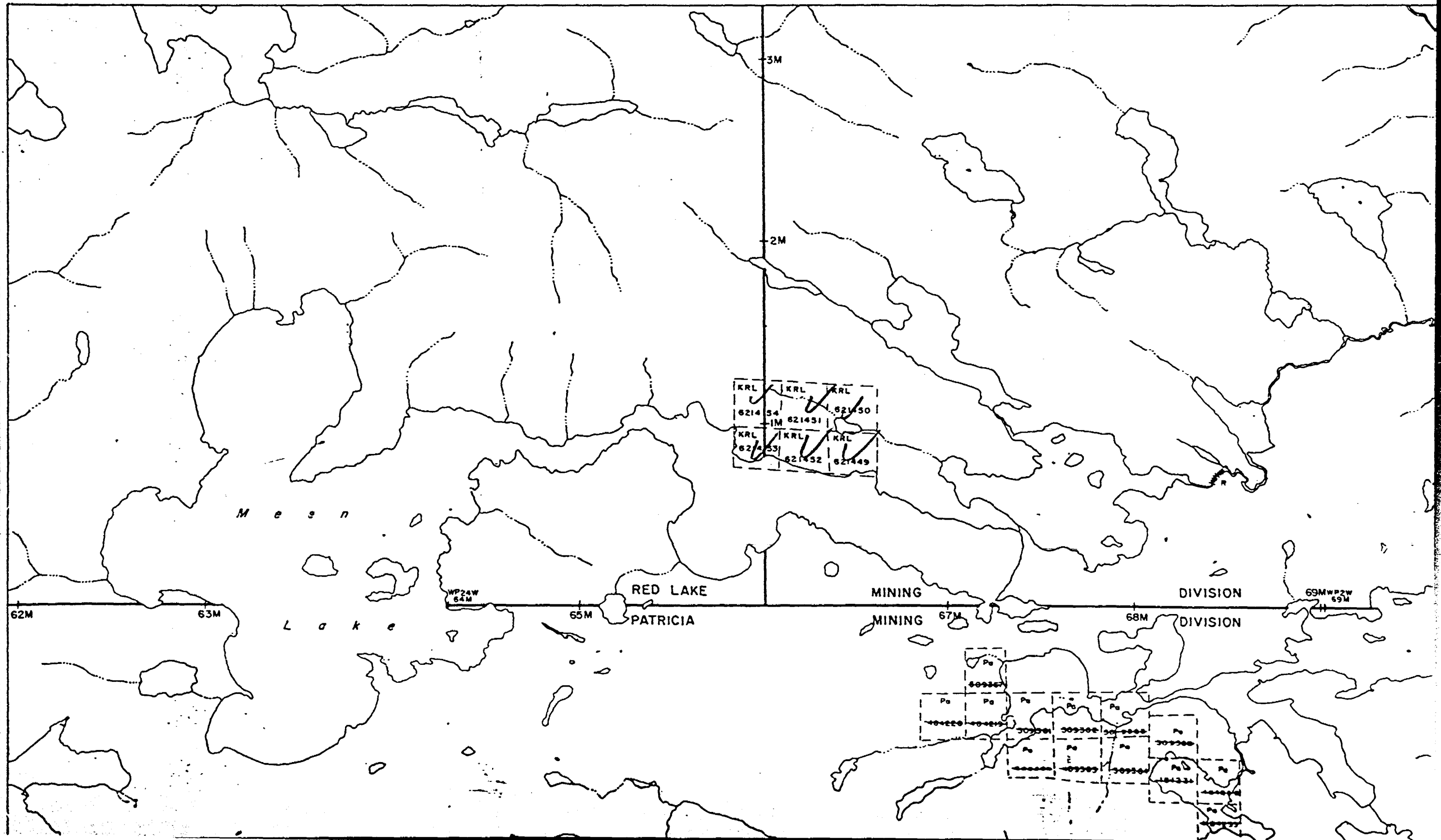
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MEEN LAKE G-2122

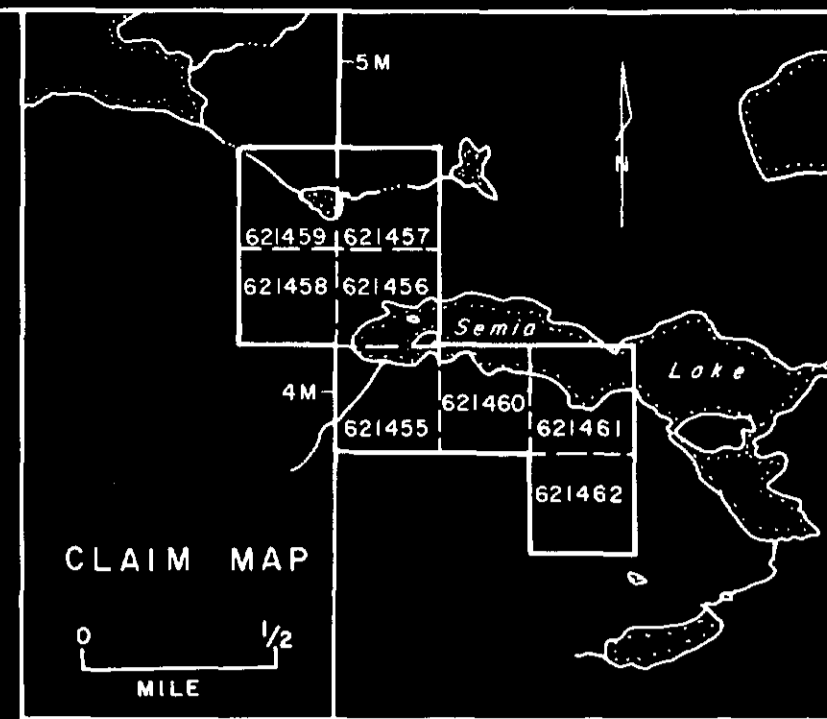
McVICAR LAKE - G-2121

91°30'

51°30'



RIVER - G-2280



LEGEND

- 6 Migmatized felsic intrusives
- 5 Pink migmatite
- 3 Metasediments
- 2a Rhyolite tuff
- 1 Mafic volcanics
- Geological contact assumed
- Outcrop area
- Swamp
- Foliation
- Old trench
- chl chlorite
- qv quartz vein
- Claim post

520/115W-0025, #1

NTS 52/0/11



MAP NO. 3

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.

GEORGE R. KENT & ASSOCIATES LTD.

SEMIA LAKE

GEOLOGY

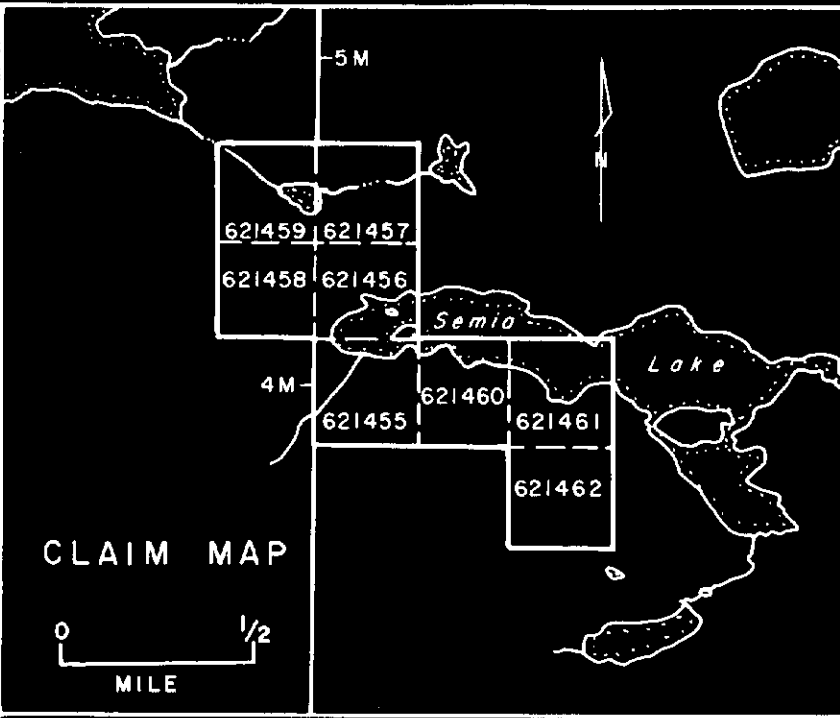
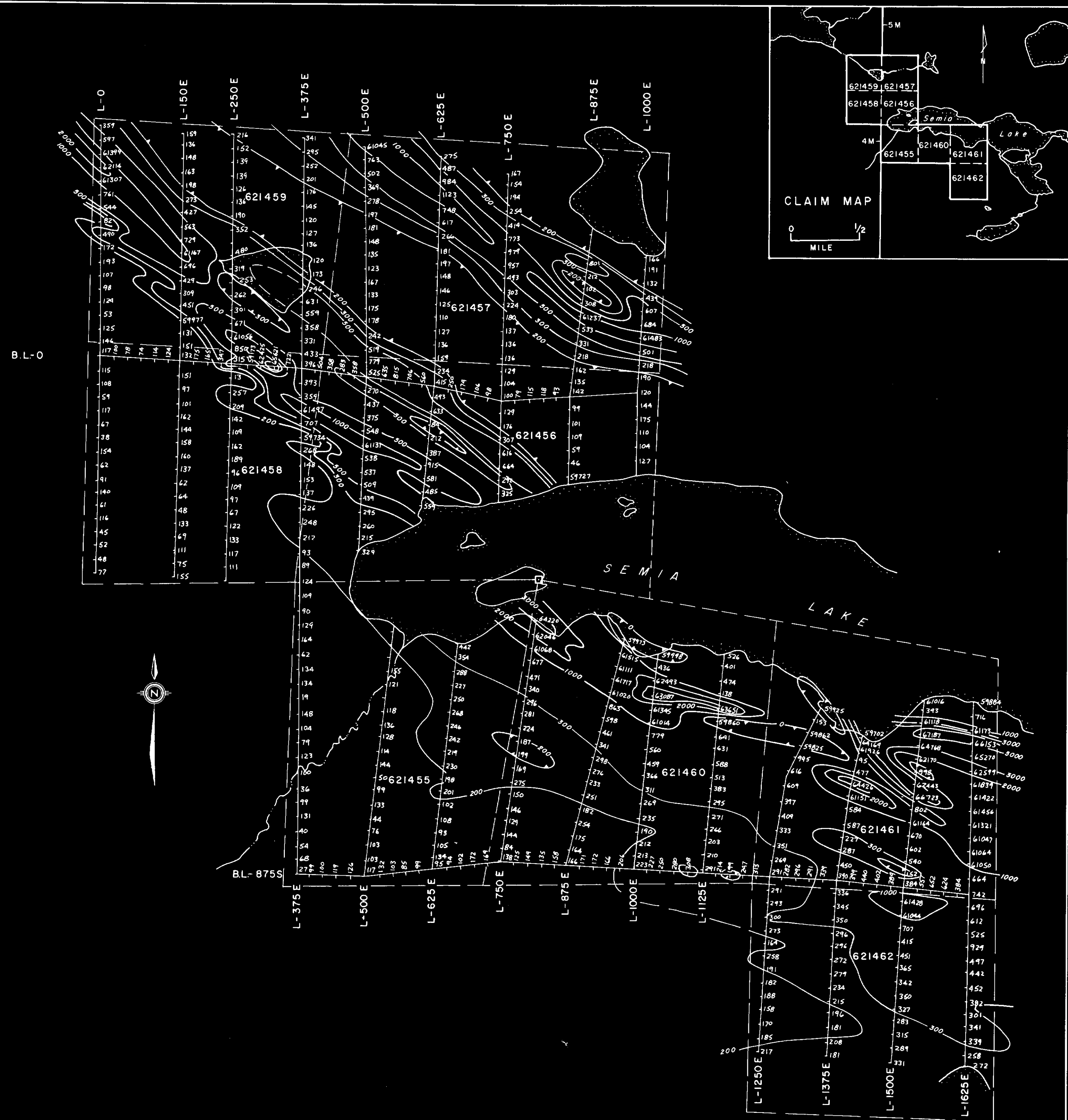
RED LAKE - PICKLE LAKE AREA

DATE: OCT., 1984

SCALE: 1:5,000

BY: M.L./G.R.K.

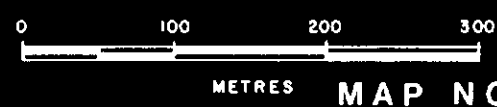
27498



LEGEND

- Values in gammas
- NOTE: 60 000 gammas omitted unless otherwise indicated
- Mag contours
- Mag low

NTS 52/0/11



DURATION MINES LIMITED &
WILSHIRE ENERGY RESOURCES INC.

GEORGE R. KENT & ASSOCIATES LTD.

SEMIA LAKE

MAGNETOMETER SURVEY

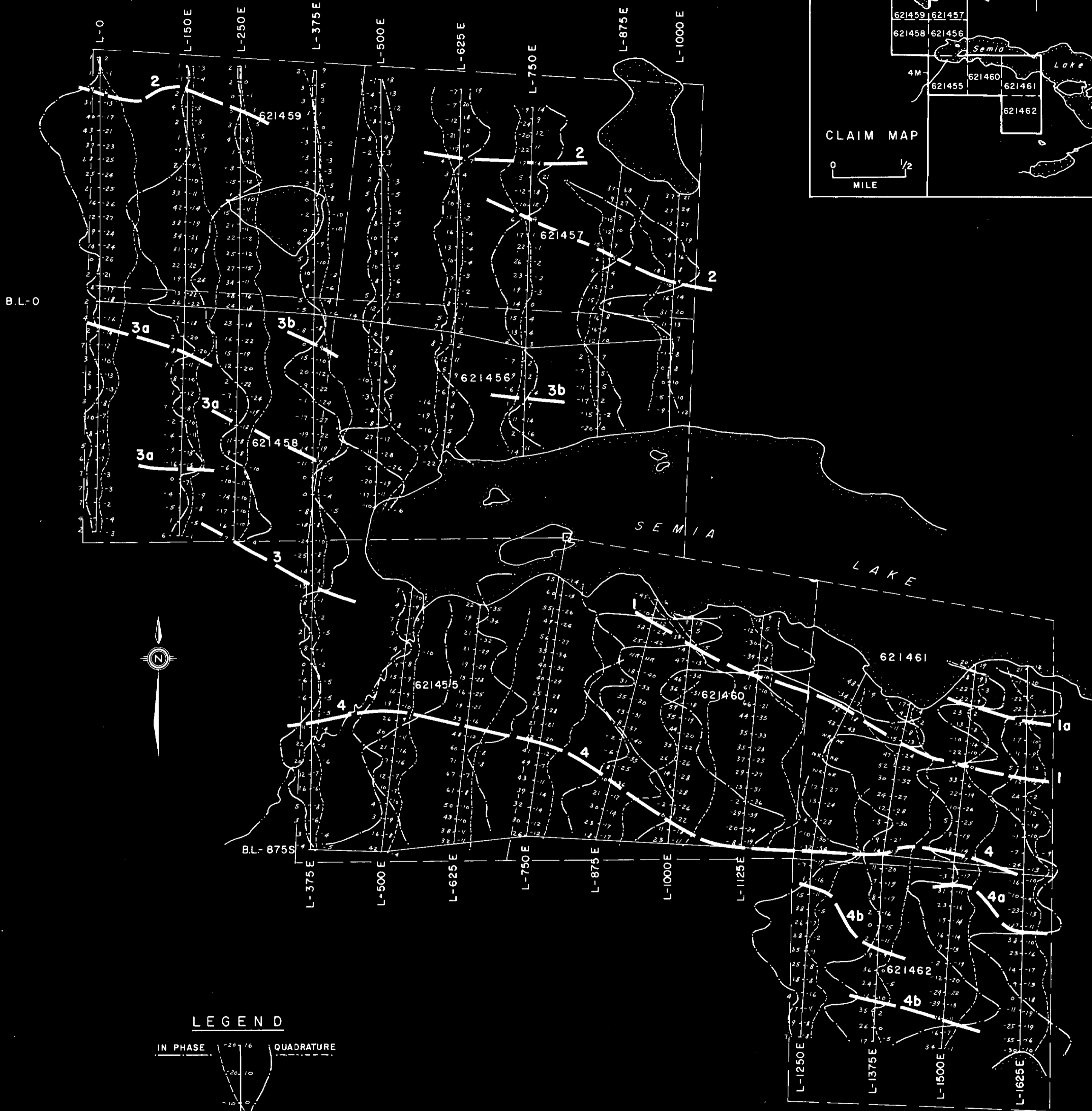
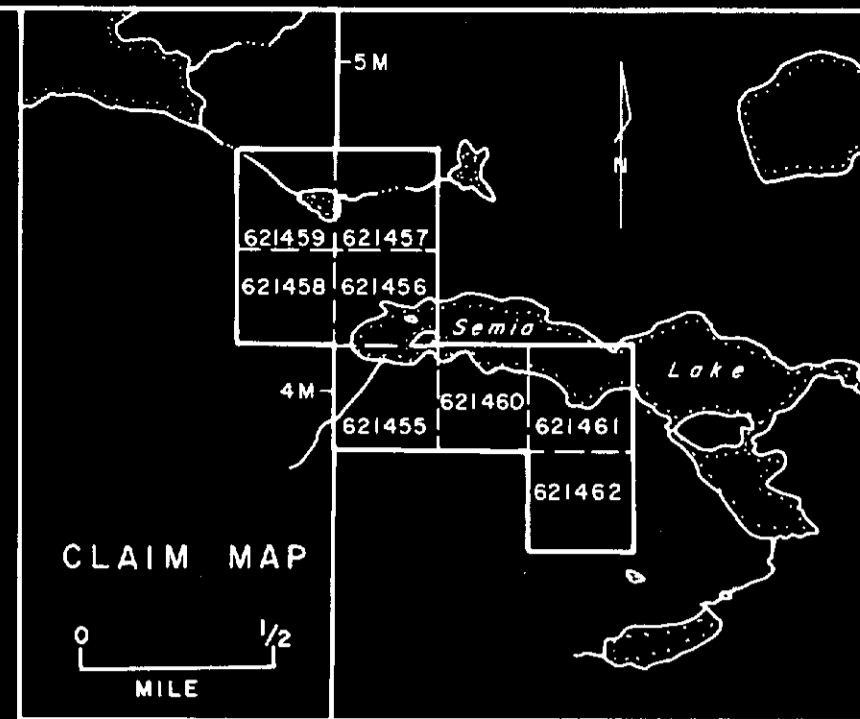
RED LAKE - PICKLE LAKE AREA

DATE: OCT., 1984 SCALE: 1:5,000 BY: M.L./G.R.K.

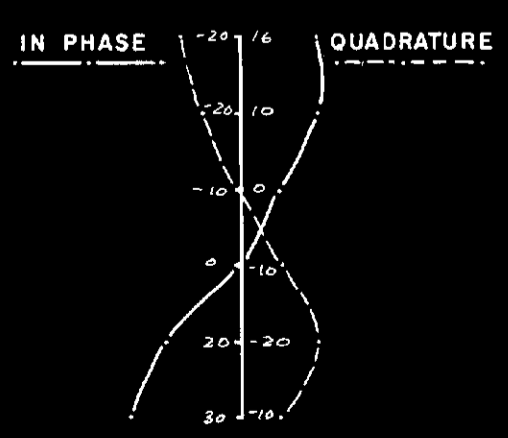
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520/11SW-0025, #2





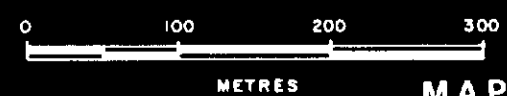
LEGEND



+40° 0 -40°

Anomaly and number

520/11SW-0025, #3



NTS 52/0/11

MAP NO 3

DURATION MINES LIMITED & WILSHIRE ENERGY RESOURCES INC.
 GEORGE R. KENT & ASSOCIATES LTD.
 SEMIA LAKE
 ELECTROMAGNETIC SURVEY
 EM-16
 RED LAKE - PICKLE LAKE AREA
 DATE: OCT., 1984 SCALE: 1:5,000 BY: M.L./G.R.K.

27498