

42A05SE0106 2.12850 DENTON

GEOLOGICAL SURVEY
for
KEEFER LAKE RESOURCES INC.
on the
KEEFER-DENTON PROPERTY
in
2.12850
KEEFER TOWNSHIP
and
DENTON TOWNSHIP
PORCUPINE MINING DIVISION
DISTRICT OF COCHRANE
ONTARIO

RECEIVED

NOV 03 1989
by

MINING LANDS SECTION

Kian A. Jensen
Consulting Geologist/Geophysicist

October, 1989

Quial
2.3969



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INTRODUCTION

During the summer of 1988 the author conducted prospecting on the property of Keefer Lake Resources Incorporated. The geological survey was conducted by the author from July 25 to August 24, 1989, on the 14 contiguous unpatented mining claims known as the Keefer-Denton Property in the southeastern part of Keefer Township and the southwest part of Denton Township.

A total of 12.7 miles of linecutting was completed in 1987. The grid lines on the lake were established during February 1988, for the purpose of the geophysical surveys.

The project area is located approximately 12.5 miles (20 km) west of the junction of Highways 101 and 144. The claims cover the southeastern portion of Keefer Township eastwards to the creek draining Godon Lake in the southwestern portion of Denton Township, Porcupine Mining Division, District of Cochrane, Ontario.

The purpose of the survey was to identify the lithological units, location of structural features and to locate favourable areas for gold and/or base metal mineralization. In this area, gold mineralization is associated with narrow quartz or quartz carbonated veining in metavolcanic rocks, sulphide mineralization associated with zones of carbonatization within structural features, such as faults, shear zones and fractures. Also, the identification of the source of the various magnetic and electromagnetic anomalies was an important objective.

LOCATION AND ACCESS

The 14 unpatented mining claims cover the area south and eastwards from Mosher Lake located in the southeastern quadrant of Keefer Township and eastwards into Denton Township to the creek draining Godon Lake, Porcupine Mining Division, District of Cochrane, Ontario as shown in Figure 1.

The project area is located approximately 12.5 miles (20 km) west of the junction of Highways 101 and 144. On the east side of Warran Lake, a logging road leads south to southeasterly through Keefer Township to the southwest corner of Denton Township and the project area. A four wheel drive vehical would be required to travel the road for a short distance. Further access is either by four wheel vehicle or walking.

Additional access from Denton Township approximately 1 mile west of Cripple Creek. This road can be travelled by four whell vehicle on the southern route to southeast of Godon Lake.

PROPERTY

The portion of the Keefer Lake Resources Inc. holdings covered by this report consists of 14 unpatented mining claims as shown in Figure 2, and consists of the following mining claims and recording dates:

P-947863 to P-947867 inclusively Keefer Twp. Sept. 11, 1986
P-947849 to P-947857 inclusively Denton Twp. Sept. 11, 1986

The claim posts for post 2 of P-947867, post 1 of P-947863, post 3 of P-947849 and post 4 of P-947852 are located approximately 70 feet south of the 1mile post on the Keefer - Denton Township boundary.

The survey pins for the patent mining claims were located as follows: pin 3 for P-22841, pin 1 for P-27877 and pin 2 for P-25078.

Several different ages of mining claim posts were located. All the current claim posts were located with two exceptions. These being post 1 of P-947866 and post 4 of P-947867 located in very wet swampy ground on the northwest side of the round lake. The other case involves post 1 of P-947850, 2 of P-947847, 3 of P-947848 and 4 of P-947851. A stump was located at the junctions of the claim lines, but it had been cut off and removed.

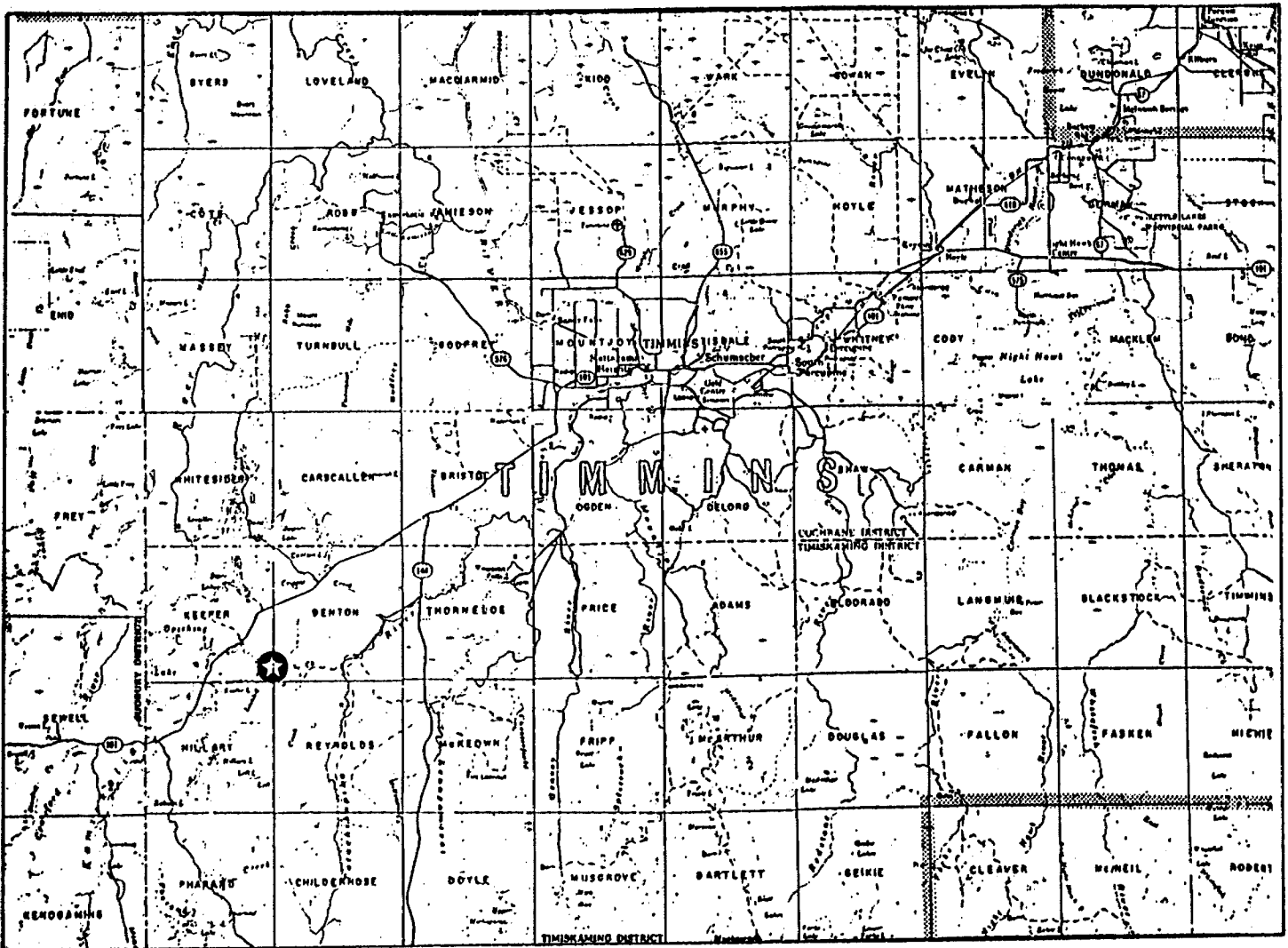


Figure 1: Location Map for Keefe Lake Resources Inc., Keefe and Denton Townships, Porcupine Mining Division, District of Cochrane, Ontario.

TOPOGRAPHY and VEGETATION

The topography of the area consists of generally of low lying spruce and cedar swamps with mixed tag alders. The lowest area is occupied by a shallow round lake surrounded by marsh and muskeg with minor amounts of dwarf spruce, cedar and balsam. There is no visible evidence that this lake has a drainage outlet. The next lowest area is covered by a lake caused by a large beaver dam located on the eastern boundary of the mapping area. This lake drains northwards into the southern part of Godon Lake.

In areas of higher ground, mature spruce, poplar and birch are the dominant vegetation. Generally the soil conditions are a sandy gravel outwash plain material. In several areas large boulders were located, however, the usual size of the boulders do not exceed 2 by 3 feet.

The amount of bedrock exposure is limited and would amount to 2 to 5 percent of the property area.

PREVIOUS EXPLORATION ACTIVITIES

A detailed description of the exploration activities and the various properties up to 1938 is given in the O.D.M. Report Volume 47, Part 4, titled "Geology of the Keefer-Eldorado Area" by W.D. Harding and L.G. Berry.

From 1945 to 1947, A. Phillips trenched and diamond drilled a sericite-carbonate schist zone located about 1 mile southwest of Godon Lake.

In 1946, Nelson Hogg evaluated the Phillips property in Denton Township which covered 23 mining claims south and west of Godon Lake. It appears that in 1947, 2 diamond drill holes were completed on former mining claim P-29404 which is currently parts of P-949908 and P-949912. No assay results were reported from the drilling.

In 1961 Paymaster Consolidated Mines Limited conducted a ground magnetic and electromagnetic surveys in the area. Results of sampling of the trenches returned values up to 0.07 o.p.t. of gold. The old base line with a bearing of N 050 E, as noted on the enclosed geological map of the property, is believed to have been established by Paymaster.

During 1971, Texas Gulf Sulphur Company Inc. and Conwest Exploration Company Limited were joint venture partners on the Galata property. They conducted an airborne survey over portions

of Keefer and Denton Townships. During September, 1971, 3 diamond drill holes were completed on former mining claim P-325907 which is currently mining claim P-947888 in Keefer Township. A total of 933 feet were drilled, and no assays were reported.

In 1972, Falconbridge Nickel Mines Limited conducted a magnetic survey over 12 mining claims in Denton Township west of Godon Lake, without locating any significant anomalies.

In recent years, Frank Galata has trenched many areas of Keefer and Denton Townships. Most of the sites are quartz or quartz-carbonate veining located south and west of Mosher Lake in Keefer Township. No assay results have been reported.

The present exploration program of Keefer Lake Resources Incorporated is to define gold bearing target by means of geophysical surveys, geological mapping, trenching, and diamond drilling.

Keefer Lake Resources Incorporated has not surveyed the North of Godon Lake grid. To date they have completed line cutting on all the other grids, magnetic surveys on all the grids, and VLF-EM surveys on the Galata Option, Keefer-Denton grid, and the Godon Lake grid. Trenching was completed by Mr. Galata during 1986 on the main showing on the west side of Mosher Lake. A stripping program was completed on the shear zone near the west side of Godon Lake in 1987. During late October and early November, 1987, a 2129 foot diamond drill program was completed. The 9 drill holes are located on the west and south sides of Mosher Lake.

GENERAL GEOLOGY

The bedrock in the area consists of an early Precambrian metavolcanic-metasedimentary sequence and has been intruded by granitic rocks.

The rock units strike in a northeast to east direction. The oldest rocks appear to be pale colour ultramafic flows which are intercalated with metasediments. In isolated areas these rocks grade into a massive flow consisting of serpentinitized peridotitic komatite. These rock are overlain by basaltic komatite and/or Mg tholeiites. The above rocks are succeeded upwards by Fe tholeiite, calc-alkalic basalt, intermediate to felsic metavolcanics and clastic metasediments.

The intermediate to felsic metavolcanics consist of tuffs, breccia and foliated to massive flows. This unit grades into metasediments and clastic metasediments. Within isolated areas the metasediments contain a zone of chert and magnetite iron formation.

The above lithological units are intruded by gabbroic to dioritic rocks. The felsic intrusives appear to have three stages, being: quartz diorite to tonalite, porphyritic granodiorite and a medium grained granodiorite.

Metamorphism in the area is of the greenschist facies. Rocks near the late intrusive have been altered to a epidote amphibolite to amphibolite facies.

Intruding all the above lithological units are north to northerly trending diabase dikes.

The structure in the area appears to be dominated by north northwest trending transverse faults, several are filled by the later diabase dikes. Several northeast trending shear zones are located in the southern portion of Godon Lake.

GEOLOGICAL SURVEY

INTRODUCTION:

The objectives of the geological mapping survey was to identify the local lithological units, location of major structural features and to identify favourable areas of gold and/or base metal mineralization.

In this area, gold and silver mineralization are associated with narrow quartz veining in metavolcanic rocks, sulphide mineralization associated with the carbonate zone within the Destor Porcupine Fault and in fractures or shear zones. Possible other sources of gold mineralization are felsic porphyries and sulphide facies of the iron formations. Base metal mineralization may be associated with gabbroic to dioritic intrusives.

Table 1 shows the general lithological units for the Keefer and Denton Townships. Not all of these units are located within the mapping area (Choudhry, A.G., 1982).

PLEISTOCENE GEOLOGY:

Approximately 95% to 98% of the mapping area is covered by glacial debris in the form of outwash plain. This is generally unsorted gravels with coarse grained sand and cobbles. Several areas have a large number of boulder erratics, usually granitic to felsic ranging up to 2 feet by 3 feet, with occasional small boulders and cobbles of gabbroic and mafic metavolcanics.

One boulders was located on the bush road just west of Line 40+00 East in Keefer Township which was of mafic to ultramafic in composition. This boulder contained about 75% sulphides of which 1% was chalcopryrite, 95% pyrrhotite and 4% pyrite.

Table 1: Lithological Units for Keefer and Denton Townships

- 6 Mafic Intrusives
 - 6a Quartz diabase

- 5 Felsic to Intermediate Intrusives
 - 5a Granite
 - 5b Granodiorite
 - 5c Tonalite
 - 5d Syenite

- 4 Metamorphosed Mafic Intrusives
 - 4a Gabbro

- 3 Metasediments
 - Clastic Metasediments
 - 3a Graywacke

 - Chemical Metasediments
 - 3b Banded magnetite-quartz iron formation
 - 3c Magnetitite-epidote iron formation

- 2 Felsic to Intermediate Metavolcanics
 - 2a Massive flow
 - 2b Flow breccia
 - 2c Pillow flow
 - 2d Pillow breccia
 - 2e Tuff
 - 2f Pyroclastic tuff
 - 2g Carbonated
 - 2h Sheared

- 1 Mafic to Intermediate Metavolcanics
 - 1a Massive flow
 - 1b Flow breccia
 - 1c Pillow flow
 - 1d Pillow breccia
 - 1e Tuff
 - 1f Pyroclastic tuff
 - 1g Carbonated
 - 1h Sheared

GEOLOGY OF KEEFER-DENTON GRID:

The geology of the Keefer-Denton Grid area is shown in Figure 3 which is located in the back folder. Only a few lithological units were located within the mapping area which are described in detail below from the youngest to the oldest.

LITHOLOGICAL UNITS:

Diabase Dikes:

The only evidence of a diabase dike was located on a small outcrop east of Line 88+00 East and north of Tie Line 20+00 South. This dike was 2 feet wide. The composition was fine grained to very fine grained, black and moderately magnetic. The dike trends in a north-northeast direction. From the airborne magnetic survey and the data collected by the ground magnetic survey, two narrow north-northwest dikes may be present within 1200 feet east of the township boundary.

Felsic to Intermediate Intrusives:

The location of these intrusives are restricted to the southern portion of the mapping area in Keefer Township on mining claim P-947863.

The tonalite is medium to coarse grained, pinkish to reddish pink on the eroded and weathered surface, while the fresh surface appears whitish to pinkish. The composition is comprised of whitish plagioclase, pink feldspars, and mafic minerals generally hornblende and minor biotite. Minor amount epidote alteration is present. No or very weak foliation is present. No sulphide mineralization is present.

In the same outcrop as the 2 foot diabase dike, a 1.5 foot pinkish felsic syenitic dike bearing due east was located.

Mafic to Ultramafic Intrusives:

These intrusives are typically medium to coarse grained with a composition of pyroxenes with scattered plagioclase with an intergranular matrix of mafic minerals and visible magnetite.

The occurrence of the gabbro is located to the west of the mapping area. However, the magnetic survey of the project area does indicate that this unit may extend eastwards to at least Line 48+00 East. Other easterly trending magnetic highs located in the southern portion of the property in Denton Township may be caused by gabbroic intrusives.

Metasediments:

Two areas of metasediments in the form of iron formations were located on the property. The first area is located in a trench about 50 feet west on the bush road from Line 52+00 East. This occurrence is comprised of narrow bands of chert, greyish metadiments, magnetite and medium green mafic to intermediate pyroclastic metavolcanic tuff. The location also exhibits folding on a small scale. The strike of the unit is N 100 E and dips vertically.

The second location of the iron formation is along the shore line north and south of Tie Line 20+00 South at 95+00 East. North of the tie line, the outcrop consists of a 1 to 1.5 foot band of chert then a magnetite-chert unit approximately 6 feet thick, bearing N 075 E dipping 65 degrees north. The outcrop south of the tie line consists of magnetite with a bearing of approximately N 094 E and dipping 81 degrees north. Both of these outcrops are within a felsic to intermediate tuff to pyroclastic tuff which strikes from N 075 E dipping 65 degrees north in the north part to N 079 E dipping between 75 to 80 degrees in the south.

This area is probably the sources of the airborne electromagnetic anomalies.

Felsic to Intermediate Metavolcanics:

There are two primary areas of felsic to intermediate metavolcanics located in the vicinity of the iron formation at 95+00 East on Tie Line 20+00 South and the northern part of the grid between Lines 80+00 East and 100+00 East.

Three additional areas of felsic to intermediate laminated tuff to pyroclastic tuff interlayered with mafic metavolcanic tuffs to pyroclastic tuff are located on Line 76+00 East at 9+00 South and on the shore line east of Line 92+00 East at 7+50 South and Line 96+00 East from 5+30 South to 7+00 South.

The tuff to pyroclastic tuff are fine grained, lighth grey on the weatered surface to light buff grey to light greyish pale green on the fresh surface. Individual laminated bands contain very small greyish to whitish fragments parallel to the bedding. The massive tuff to pyroclastic tuff exhibits good bedding ranging from N 075 E to N 070 E and dipping from 65 degrees to 75 degrees in the southern exposure to N 087 E dipping 80 degrees north in the laminated pyroclastic tuff at 6+00 South on Line 96+00 East.

The outcrop located on Line 76+00 East at 9+00 South has been extensive trenched. Little to no sulphides were located.

The area of felsic to intermediated metavolcanics located between Lines 80+00 East and 100+00 East appears fine grained, weathers buff white. The fresh surface is whitish and medium green to dark green chlorite matrix and varies from moderate to intense carbonatization. Small pyroclasts are present with minor amounts of sulphides. The southern exposure of this unit near Line 80+00 East at 5+00 North exhibits moderate schistosity or shearing approximately due east. This is probably due to a suspected shear zone trending about N 090 E to N 095 E. The further north and away from the suspected shear zone, the unit appears to become more massive then tuffaceous. In this northern part of the unit, numerous small 6 inch to large 3 foot wide quartz veins are located.

Mafic to Intermediate Metavolcanics:

The majority of the outcrop exposure of the mapping area is comprised of mafic tuff to pyroclastic tuff and massive flows. These are medium green to dark green, fine grained and weathers from a light green to a pale medium green. Generally the tuff and pyroclastic tuff exhibits good bedding while the massive flows exhibit poor to weak schistosity.

The degree of carbonatization varies from none to weak. The exceptions are the shear zone located on Line 96+00 East at 3+75 South and the massive flow south of the exposure of mafic and felsic pyroclastic tuff located on Line 72+00 East at 9+50 South. The shearing of the chloritic pyroclastic tuff on Line 80+00 East at 4+00 North is not carbonated. No pillow flows were located.

STRUCTURAL GEOLOGY:

Apart from the diabase dikes filling the north-northwest fault zones, the only structure located were two shear zones. These were located on the eastern shore of the lake by Line 96+00 East.

The northern shear zone trends N 108 E dipping 74 degrees north in a carbonated mafic pyroclastic tuff while the southern shear trends N 168 E and dipping steeply east. This later shearing has terminated the felsic diklet, while the small diabase dike has not been displaced.

A suspected shear or fault zone may be present near the contact of the mafic pyroclastic tuff and the felsic to intermediate pyroclastic tuff in the northern portion of the mapping area in Denton Township.

ECONOMIC GEOLOGY:

The amount of mineralization is in the form of scattered to less than 1% sulphides usually contained in the mafic metavolcanics. Scattered grains of chalcopyrite was located in the northern felsic pyroclastic tuff.

During the prospecting, several samples were collected and analyzed for base metals and gold content. All samples assayed trace gold. The massive sulphide float located on the bush road west of Line 40+00 East, assayed 3200 ppm copper, 226 ppm zinc, 4.0 ppm silver, 480 ppm nickel and 20 ppm lead. The sample of the magnetite iron formation assayed 800 ppm copper, 1.8 ppm silver and 98 ppm nickel. The sample of the felsic to intermediate pyroclastic tuff located at Line 76+00 East at 8+00 South assayed 1680 ppm copper and 3.2 ppm silver.

CONCLUSIONS

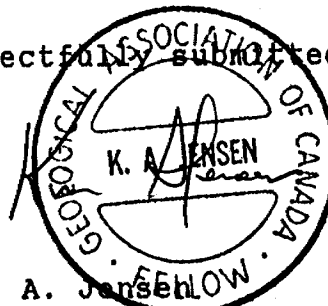
The property contains less than 5% outcrop exposure consisting of older mafic to intermediate and felsic to intermediate massive to pyroclastic tuffs intruded by a gabbroic sill. The above units were then intruded by felsic intrusive tonalite. The last intrusive event was by quartz diabase dikes.

The veining in the area is isolated to small isolated quartz and carbonated stringers and veinlets in the mafic metavolcanics, and larger quartz veins in the northern felsic to intermediate pyroclastic tuff.

Sulphide mineralization is generally pyritization with isolated occurrences of chalcopyrite. The chalcopyrite mineralization is confined to the northern felsic metavolcanics. Heavy magnetite mineralization was located in the gabbro, west of the mapping area, and in the two occurrences of magnetite-chert iron formations.

All samples taken were assayed for gold and returned values of trace.

Respectfully submitted,



Kian A. Jensen
Consulting Geologist/Geophysicist

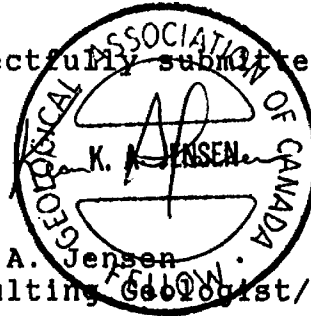
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RECOMMENDATIONS

Based upon the results of the recommended work, minor trenching may be warranted in the area of the northern felsic pyroclastic tuff. A limited diamond drilling program is recommended to test the stronger electromagnetic anomalies associated with the suspected gabbroic intrusive near the round lake in Keefer Township, the iron formation which may be the source of the airborne electromagnetic anomalies, and the suspected shear zone and the northern felsic pyroclastic tuffs.

Dated at Timmins, Ontario
October 31, 1989

Respectfully submitted,



Kian A. Jensen
Consulting Geologist/Geophysicist

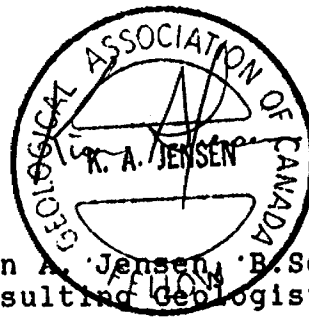
CERTIFICATE

With reference to my report on the Geological Survey on the Keefer-Denton Property of Keefer Lake Resources Inc. Dated October 31, 1989.....

I, Kian A. Jensen, of the City of Timmins, Ontario, do hereby certify the following to be true and accurate to the best of my knowledge:

- 1) That I received an Honour B.Sc. degree in Earth Science, Geology Major, from the University of Waterloo,
- 2) That I have been employed as a geologist and/or geophysicist by various exploration companies and consulting companies since 1978,
- 3) That I have been and still am a member in good standing in the following associations:
 - a) Society of Exploration Geophysicists - Associate, 1981
 - b) Geological Association of Canada - Fellow, 1983
- 4) That I am the author of the corresponding report, and have been actively exploring and prospecting in the Timmins area since 1981,
- 5) That I have no interest directly or indirectly in the mining claims comprising the property described in this report or in the shares of any company or companies in this joint venture on this property or the surrounding properties, nor do I expect to receive any directly or indirectly.

Dated this 31st of October, 1989
Timmins, Ontario



Kian A. Jensen, B.Sc.
Consulting Geologist/Geophysicist



TREATMENT NO. W 1003-42



42A05SE0106 2.12850 DENTON

900

Mining Act

Report of Work (Geophysical, Geological and Geochemical)

Mining Lands Section, Mineral Development and Lands Branch

Type of Survey(s) GEOLOGICAL SURVEY	Mining Division PORCUPINE	Township or Area KEEFER & DENTON TWP
Recorded Holder(s) KEEFER LAKE RESOURCES INC.	2.12850	Prospector's Licence No. T-5010
Address P.O. BOX 72, KING CITY, ONTARIO, LOG 1K0		Telephone No. (705) 268-0111
Survey Company KIAN A. JENSEN EXPLORATION AND CONSULTING SERVICES		
Name and Address of Author (of Geo-Technical Report) K.A. JENSEN, P.O. BOX 37, SOUTH PORCUPINE, ONT. P0N 1H0		Date of Survey (from & to) 25 07 89 24 08 89 Day Mo Yr Day Mo Yr

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	947846				
P	947847				
P	947848				
P	947849				
P	947850				
P	947851				
P	947852				
P	947853				
P	947854				
P	947863				
P	947864				
P	947865				
P	947866				
P	947867				

RECORDED

SEP 8 1989

RECEIVED

OCT 18 1989

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

14 claims

Certification Verifying Report of Work

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

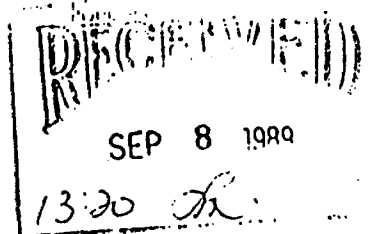
Name and Address of Person Certifying
KIAN A. JENSEN, P.O. BOX 37, SOUTH PORCUPINE, ONTARIO P0N 1H0

Telephone No. **(705) 268-0111** Date **Sept 8/89** Certified By (Signature) *Kian Jensen*

For Office Use Only

Total Days Cr. Recorded 280	Date Recorded SEP 8, 1989	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded See revised work statement	Provincial Manager, Mining Lands

Received Stamp





Date	File
January 26, 1990	2.12850
Mining Recorder's Report of Work No. W8906-929	

Recorded Holder
KEEPER LAKE RESOURCES

Township or Area
KEEPER AND DENTON 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 <u>20</u> _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input type="checkbox"/> <input checked="" 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.	P 947846 to 850 incl. 947852 to 854 incl. 947863 to 64 947866

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

15 days Geological - P947851

5 days Geological - P947865, 947867

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.



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
880 Bay Street, 3rd Floor
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

February 26, 1990

Your File: W8906-429
Our File: 2.12850

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Re: Notice of Intent dated January 26, 1990 for Geological
Surveys submitted on Mining Claims P 947846-850 et al
Keefer and Denton 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,

Blair Kirk

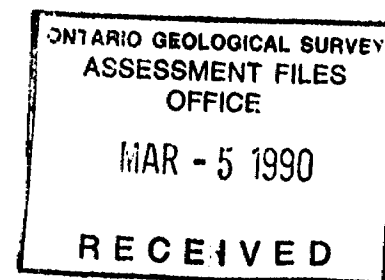
For W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

DM:pt
Enclosure

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

Keefer Lake Resources Inc.
King City, Ontario

Kian A. Jensen
South Porcupine, Ontario



Resident Geologist
Timmins, Ontario

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
43/70		FEB 3/66	M.+S.	171506
BANK AND ADJUT PARK RESERVE S.R.O. SEC 36/80 W.L.G./83 NOV 11/83			M.R.O.	
RESERVED FOR PUBLIC USE			S.R.O.	
Rs		M.A.W. 9/84	S.R.O.	
APPLICATION FOR CROWN LAND.				

SAND AND GRAVEL

M.T.C.	PIT 1417	FILE	126351
M.T.C.	PIT 1236	FILE	126351
M.T.C.	PIT 1470		
M.T.C.	PIT 1331		

NOTES

THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY OF THE CITY OF TIMMINS.

IMPORTANT NOTICE

THIS TOWNSHIP FORMS PART OF THE WAFTERBOARD FOREST MANAGEMENT AGREEMENT.

THE 1985/86 ANNUAL PLAN, ON FILE IN THE MINING RECORDER'S OFFICE, SHOWS THE AREAS TO BE AFFECTED IN THE NEXT YEAR.

IF THIS PLAN AFFECTS YOU, FURTHER INFORMATION MAY BE OBTAINED FROM:

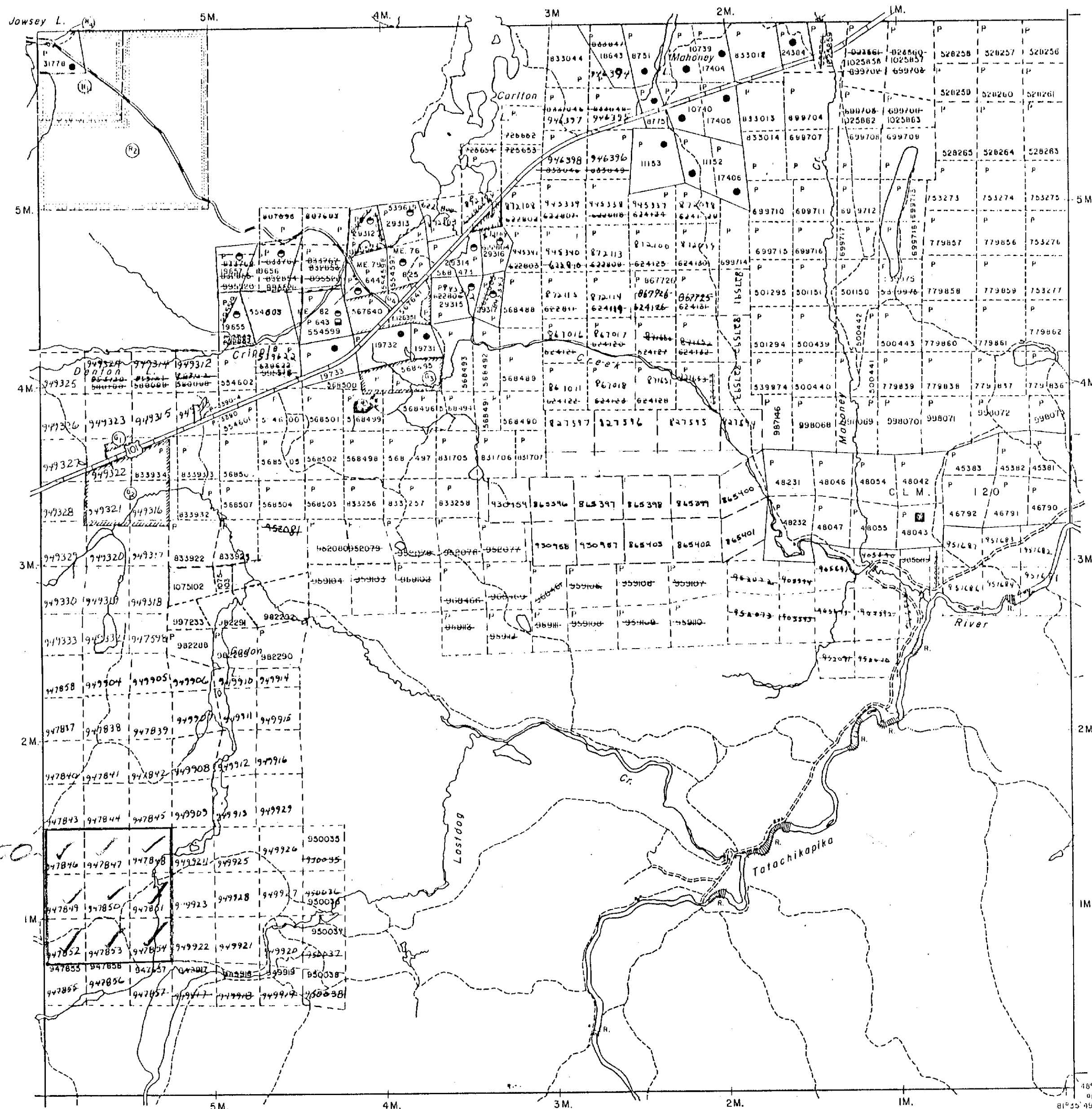
MR. MALCOLM KILGOUR,
UNIT FORESTER,
MINISTRY OF NATURAL RESOURCES,
896 Riverside Drive,
Timmins, Ontario

Tel: 705-267-7951

or

Mr. Pierre Corbeil,
Wafterboard Group
Tel: 705-268-1462

CARSCALLLEN TWP.



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
(1) SEC. 43/70	W 26/77	11/1/77	S.R.O.	1A0541
(2) SEC. 42/40	W 18/76	M.S.		171506
(3) SEC. 42/40	7/10/76	M.S.		149111
(4) DANA AND JOWSEY LAKE PARK RESERVE	S.R.O.			
SEC. 36/80	W 8/81	M.R.O.		

(15) DUMPING STATION

SAND AND GRAVEL

- (1) M.T.C. 011 1593
- (2) GRAVEL FILE 44486

IMPORTANT NOTICE

This township forms part of the WATERBOARD FOREST MANAGEMENT AGREEMENT

— The 1985/86 Annual Plan, on file in The

Mining Records Office shows the area to be affected in the next year

— If this plan affects you, further information may be obtained from:

Mr. Malcom Kilgour - Unit Forester

Ministry of Natural Resources

896 Riverside Drive, Timmins Ont.

Telephone: 267-7951

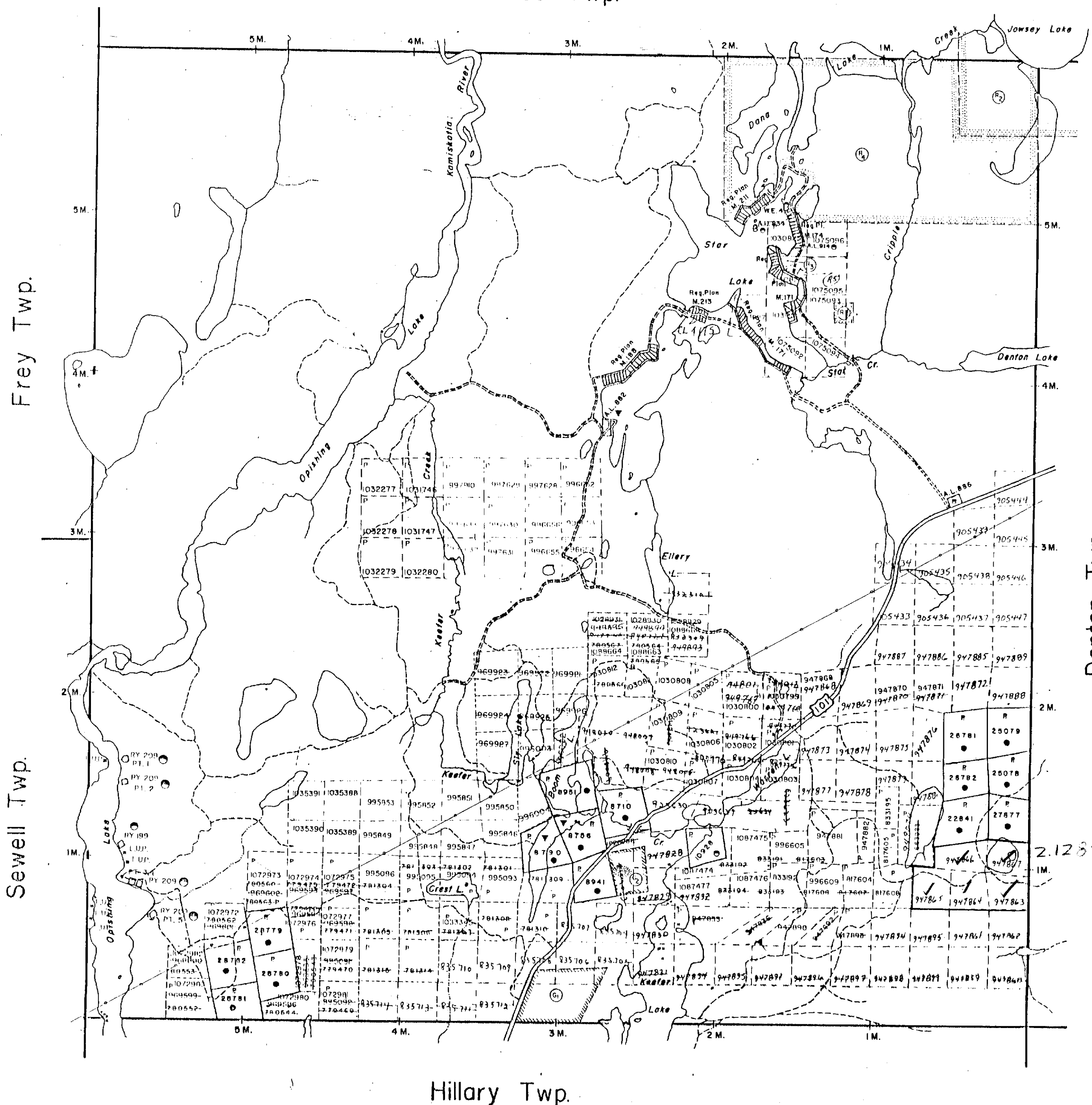
and/or

Mr Pierre Corbeil

Waterboard Group

Telephone: 268-1462

Whitesides Twp.



LEGEND

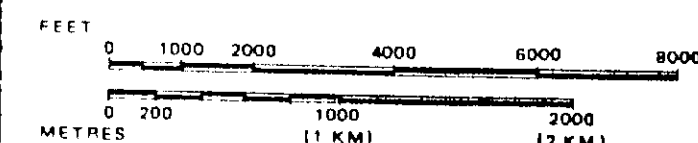
- HIGHWAY AND ROUTE No. [Symbol]
- OTHER ROADS [Symbol]
- TRAILS [Symbol]
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC. [Symbol]
 - LOTS, MINING CLAIMS, PARCELS, ETC. [Symbol]
- UNSURVEYED LINES:
 - LOT LINES [Symbol]
 - PARCEL BOUNDARY [Symbol]
 - MINING CLAIMS ETC. [Symbol]
- RAILWAY AND RIGHT OF WAY [Symbol]
- UTILITY LINES [Symbol]
- NON-PERENNIAL STREAM [Symbol]
- FLOODING OR FLOODING RIGHTS [Symbol]
- SUBDIVISION OR COMPOSITE PLAN [Symbol]
- RESERVATIONS [Symbol]
- ORIGINAL SHORELINE [Symbol]
- MARSH OR MUSKEG [Symbol]
- MINES [Symbol]
- TRAVERSE MONUMENT [Symbol]

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	◘
L.U.P. LAND USE PERMIT	◙

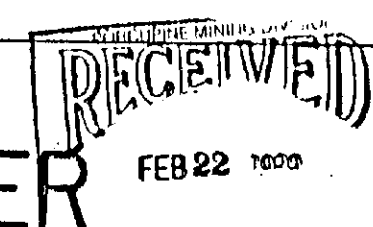
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

KEEFER



M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

Ministry of Natural Resources
Land Management Branch
Ontario

Date MARCH, 1985

Number

Rec'd Am. 4/85 checked L.H.

G-3237

K. Nolemov



KEEPER LAKE RESOURCES INCORPORATED
2.12850

GEOLOGY SURVEY

KEEPER AND DENTON TOWNSHIPS
PORCUPINE MINING DIVISION, ONTARIO



SCALE 1:7430
1 INCH = 200 FEET

SURVEY BY: W.A. JENSEN DATE: JULY 25 - AUG. 24, 1988

REVISION BY: DATE: PROJECT NO.: 89-012

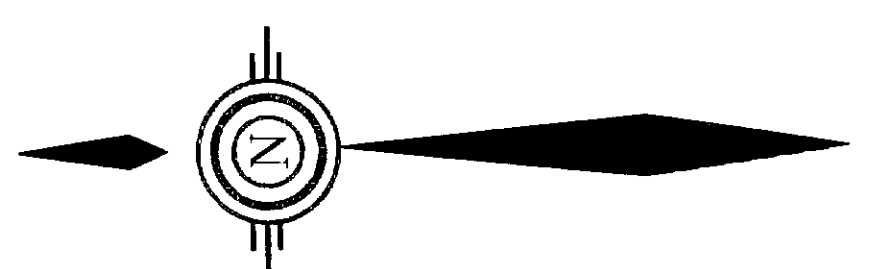
FILE NO.: K.A. Jensen
Exploration and Consulting Services

SYMBOLS

- GRID LINES
- OLD GRID LINES
- CLAIM LINES
- CLAIM POST LOCATED
- SURVEY PINS LOCATED
- BUSH ROADS
- BOULDER
- OUTCROP
- SHORELINE
- HILL
- SWAMP
- BEDDING, DIP KNOWN
- BEDDING, DIP UNKNOWN
- SCHISTOSITY, DIP KNOWN
- SCHISTOSITY, DIP UNKNOWN
- SPRING, DIP KNOWN
- SPRING, DIP UNKNOWN
- QUARTZ VEIN
- QUARTZ CARBONATE VEIN
- PYRITE
- CHALCOPYRITE

LEGEND

- 6 MAFIC INTRUSIVE
- 6a QUARTZ DIABASE
- 5 FELSIC TO INTERMEDIATE INTRUSIVE
- 5a GRANITE
- 5b GRANODIORITE
- 5c TONALITE
- 5d STENITE
- 4 METAMORPHOSED MAFIC INTRUSIVE
- 4a GABBRO
- 3 METASEDIMENTS
- 3a CLASTIC METASEDIMENTS
- 3b GRAYWACKE
- CHEMICAL METASEDIMENTS
- 3c BANDED MAGNETITE-QUARTZ IRON FORMATION
- 3d MAGNETITE-EPIDOTE IRON FORMATION
- 2 FELSIC TO INTERMEDIATE METAVOLCANICS
- 2a MASSIVE FLOW
- 2b FLOW BRECCIA
- 2c FLOW BRECCIA
- 2d FLOW BRECCIA
- 2e TUFF
- 2f PYROCLASTIC TUFF
- 2g CARBONATED
- 2h SHEARED
- 1 MAFIC TO INTERMEDIATE METAVOLCANICS
- 1a MASSIVE FLOW
- 1b FLOW BRECCIA
- 1c FLOW BRECCIA
- 1d FLOW BRECCIA
- 1e TUFF
- 1f PYROCLASTIC TUFF
- 1g CARBONATED
- 1h SHEARED



KEEPER TOWNSHIP
DENTON TOWNSHIP

P-25079

P-26781

P-25078

P-26782

P-27877

P-22841

