CLAIMS 1151241 and 1151242

N.E. GARVEY TOWNSHIP

PORCUPINE DIVISION

REPORT ON PROSPECTING

John Hartley Morgan

June, 2000
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Author's Qualifications

Honour Moderations (Oxon.) 1956 Botany, Geology, Chemistry

B.A. Forestry (Oxon.) 1958

M.A. Forestry (Oxon.) 1962

M.B.A. (Business Administration) Toronto Univ. 1963

The author has worked as an Ontario Prospector for over 15 years, and holds Red Granite claims as a quarry prospect in good standing (near Marathon) in Coldwell Township, Mining Division of Thunder Bay.
Reasons for Prospecting

In 1993, on returning from a prospecting trip in a nearby township, the author saw the sands along Hwy. 560 and 560 (A) near Westree. He took samples and had them analysed by Chemex Laboratories at Mississauga, Ontario. Also, he took a bulk sample, near Hwy. 560, which was successfully tested as a Foundry Casting Sand for aluminum alloys.

Being aware of the mineral composition of this sand, early this year he consulted Falconbridge personnel at Sudbury and Timmins as to the possibility of using the sands as a Smelter Flux.

Falconbridge was interested in testing the sands for this purpose, so the author launched a prospecting expedition in May this year to determine whether or not the sands would be suitable in terms of access, distance, quantity, and uniformity of material in particle size and mineral content.

After prospecting for 10 days, the claims were staked and subsequently recorded at Timmins on May 26.

Location of Prospects

Highway 560 (A), an all-weather gravel road, goes through the claimed area. About 2 km. to the N.E., Hwy. 560 (A) joins with Hwy. 560. To the S.W., 560 (A) goes to Westree.

The claimed area comprises two adjoining claim blocks, 1151241 and 1151242, each of 6 claim units. See map, page 3. The nearest main highway is 560, which runs about 25 km. W. to join with the main highway 144 between Sudbury and Timmins. See the map, page 4.
The Rh factor, most important blood grouping also inherited, is present in 15% of the Canadian population as a result, they are said to be Rh positive. 1% of the ABO and patients Rh negative. Therefore, it can be established...
To the E., Hwy. 560 runs to Shiningtree and beyond. The claims are about halfway between Sudbury and Timmins, or about 150 km. South of the Falconbridge smelter at Kidd Creek (South Porcupine near Timmins).

Topography and Drainage

This was of grave concern, because a limited preliminary reconnaissance along roads in the prospects showed that about 45 per cent of the area was low lying and swampy. A search was then made over a much wider area in an effort to find less swampy conditions, but this was not successful.

The topography was relatively flat, ranging between 395 and 419 m. height above sea level. On the positive side, there were several good roads giving all-weather access to most parts.

Here, the sands differed somewhat from those along Hwy. 560. The sands here consisted of aeolian (wind-blown) dunes, (see photo 10) as opposed to the sands 1 km. to the North, which were mostly of glaciolacustrine origin. Some of the dunes were large and crescent shaped in surface plan. The most prominent of these were along Hwy. 560 (A), and in the S.W. part of claim 1151241 (see the Prospecting map in the appendix).

Access and Infrastructure

About 4 Km. to the S.W. lies the small village of Westree, which has about 25 small residences, some recreational and some owned by employees of Gogama- Forest Products' nearby sawmill.
Westree is a 'VIA' passenger train stop for the C.N.R., which regularly runs trains between Toronto and Vancouver via Sudbury and Winnipeg. (see photo 25). There are also daily freight trains. Once there was a siding at Westree, but it has been taken up.

Gogama Forest Products has a Jackpine sawmill at Ostrom, about 8 km. West on Hwy. 560. At Ostrom there is a 400 m. C.N.R. siding which is easily accessible from the highway.

Just East of the Hwy. 560/560 (A) junction is Morin, a trailer hamlet with a few residences. Highway 560 (A), an all-weather gravel road, runs through both the prospects, and, in addition, a very good logging road, built by Domtmar, goes through claim 1151242.

The hydro-electric power line runs alongside Hwy. 560 (A). There is a small general store in Westree, and the nearest Post Office is in Shingtree.

Organic Cover

The two adjacent claims of 6 units each fall within the Jackpine woodland managed as "The Spanish Forest" by Domtar Inc. at Timmins. About 45 per cent of the area is low lying, with slowly growing Black spruce and Balsam fir. The low lying areas are separated by sand dunes that reach up to 12 m. or more in height above the swamps. On the dunes the dominant species is Jackpine. The southerly sides of the dunes are often steeper and with a carpet of lichens and Wintergreen shrubbery amongst bare patches of sand.

In the W. of claim 1151242 there is a large cutover area. Regrowth of pines on the dunes there was fairly rapid, but for Black spruce, growth was very slow in the adjacent swampy areas.
Previous Work

The sands along Hwy. 560 were tested in boreholes for industrial potential by the Ontario Geological Survey in 1982 to 1983, and described in Open File Report 5445. This report suggested that the dune sands along Hwy. 560 (A) should also be investigated. In 1993, John Morgan had a dune sand sample analysed by Chemex Labs. of Mississauga. This indicated that the dunes were closely related in chemical composition to the glaciolacustrine sands to the North, and relatively uniform over a wide area.

Prospecting Observations

May 15 afternoon: Weather good. Walked East to West along a large dune to the North of Hwy. 560 (A), about 800 m. West of Domtar's main logging road. (Near the North side of claim 1151241). This dune reached a height of several metres above the road, was crescent shaped, about 600 m. East to West, and 150 m. from South to North. To the South of the road was a belt of lower lying Spruce/Balsam fir forest, and beyond that, another dune with Jackpine.

Along the road W. of the aforementioned dune, there were swampy conditions for about 200 m., and then the road went Westerly through a very large dune with mature Jackpine (see photo 20).

May 16: Warmer weather. In the N.W. part of claim 1151241, a very waterlogged Winter trail led from Hwy. 560 (A) in a South Easterly direction through a swamp for 400 m. This trail could hardly be used under the present conditions especially after the recent rains. (see photo 22).

The same trail crossed over the Highway, going North Westerly over a dune, but after 150 m. it again descended into a swamp.
The latter swamp was of somewhat higher elevation, but Alder thicket, waterlogged holes, together with dense Spruce and Fir, made slow progress. In the N.E. part of claim 1151242, the same trail, for another 400 m., led to a large Jackpine covered dune, about 8 m. high. This was to the left of the trail or S. of it.

May 17: cold and overcast, warmer later on. At the common boundary between the two claims, went on a flagged traverse for 500 m. South, starting at Hwy. 560 (A).

There was a large dune with overmature Jackpine, gradually ascending for 120 m., and then descending more steeply to a swamp. This was easily crossed and two very large dunes with an intervening swamp were then encountered. The last dune, in the S.W. corner of claim 1151241, was the largest seen, and reached a height of 419 m. above sea level. Its Southern aspect was still active (ongoing wind-driven sand) and had a different ecology—bare sand patches with lichens.

May 18: chilly and overcast with clouds. Hwy. 560 (A) was followed for 500 m. West of the common claim boundary. Good dune sand was apparent at some higher elevation above the road. After that, low lying swamp occurred with drainage ditches. An overgrown trail, supposed to be near the junction of the road and the Hydro power line, could not be located. In places the road was corrugated with potholes and needed grading.

Fairly dense Black spruce and Balsam fir was seen N.W. of the road near Reference gridline 46 20 OOM E.

May 19: another cool day. Went South on the traverse of May 17 for nearly 500 m. and then for 300 m. to the East, on an unmarked traverse.
Found an extremely large dune, under mature Jackpine. To the North and South, this dune reached a height of at least 14 m. above the swamp. The dune was about 800 m. from W. to E. and, from N. to S., about 110 m. It looked as if a road could be easily bulldozed from the Highway to reach this dune.

May 20: Sunny. Moved near the N.W. corner of claim 1151242, having found the excellent Domtar logging road nearby (see photo #18 and map, page 3). The Domtar road connects with Hwy. 560 (A), about 3.4 km. to the East.

There was a road junction about 150 m. to the W. of the claim boundary. Here, the logging road joined a good sandy road (see photo #14) that bisected claim 1151242 from W. to E. This sandy road afforded very good access to fine sand on low dunes over a wide area (see the Prospecting map). About 20 ha. of these dunes had been logged and were now covered with young Jackpine.

May 21: walked further E. for 800 m. along the sandy road which bisects claim 1151242. Saw young Jackpine on each side. (see photo #17) In places at the summit of dunes the sand was very soft so that a four-wheel driven vehicle would have been needed to drive on it. In the N.E. of the claim, this sandy road ended in a large dune with mature pine. Beyond that were traces of a low-lying Winter trail.

May 22: as rain was imminent, the day was spent in mapping the information which had been gathered.

May 24: drove along 560 (A) to the E. boundary of claim 1151241. Everything wet, so donned rain gear and went on a flagged traverse southwards for a total length of 600 m.
About 180 m. from the highway, a small swamp was easily crossed, then a large cutover was encountered. This 600 m. traverse ended in borderline swampy conditions. These final observations were recorded on the map.

Conclusions

Most of the swamps could be traversed on foot at this time of the year, even after rains. Much of the area could be reached by existing drivable roads, and road building on the dunes was easy.

The sands were finer and the particles more rounded than those along Hwy. 560. The dune sands could be easily scooped up at low cost and then transported by trucks. All weather roads made all weather operations feasible.

Most of the larger dunes were covered by overmature Jackpine that could be cut by Domtar. Regeneration of the forest could be assisted by planting with better species.

The proximity to Westree village, the CNR stop there, and the nearby siding at Ostrom, was good infrastructure. The 150 km. distance by road to Timmins was probably an economic haul for the transport of Smelter Flux.

After recording the claims in Timmins on May 26, samples were taken over a wide area in triplicate. One lot was tested by Falconbridge. In a letter dated June 19, from D'Arcy Quinn, the writer was advised by Falconbridge that "the sand is a material that we could use in the process" (i.e. the smelting process at Kidd Creek).

Photo 14
Sandy Road
Facing W.
Claim 1151242

Photo 17
Sandy Road
Facing E.
Claim 1151242

Photo 18
Facing W. Along the Domtar Logging Road
Claim 1151242
Photo 20
LARGE DUNE AT SIDE OF ROAD 560(A)

Photo 22
SWAMP WITH WATERLOGGED WINTER TRAIL

Photo 25
FACING W. CNR STATION AT WESTREE
Declaration of Assessment Work
Performed on Crown Lands
Minerals Act, Subsection 66(2), R.S.O. 1990

Instructions: - For work performed on mining lands, use form 0241.
- Please type or print in ink

1. Recorded holder(s) (Attach a list if necessary)

<table>
<thead>
<tr>
<th>Name</th>
<th>Client Number</th>
<th>Telephone Number</th>
<th>Fax Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOHN HARTLEY MORGAN</td>
<td>172 343</td>
<td>(416) 201-9072</td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>215-2835 LAKESHORE W., ETOBICOKE, ONT. M8V 3V8</td>
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<td></td>
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2. Type of work performed. Only regional surveys and prospecting work are allowed on Crown Lands before recording. For work performed after recording a claim or on other mining lands, use form 0241.

<table>
<thead>
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<th>Work Type</th>
<th>Office Use</th>
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<td>PROSPECTING BEFORE RECORDING</td>
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<td>(10 DAYS)</td>
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<table>
<thead>
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<th>Work Type</th>
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<table>
<thead>
<tr>
<th>Dates Work Performed</th>
<th>Global Positioning System Data (if available)</th>
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<tr>
<td>From 15 05 00 To 24 05 00</td>
<td>GARVEY TWP. PORCUPINE D.I. G-974</td>
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<th>NTS Reference</th>
<th>Work Type</th>
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<tr>
<th>Resident Geologist</th>
<th>District</th>
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Please remember to:
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report;
- provide proper notice to surface rights holders before starting work.

3. Person or companies who prepared the technical report (Attach a list if necessary)

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<th>Name</th>
<th>Telephone Number</th>
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4. Certification by Recorded Holder or Agent

I, JOHN HARTLEY MORGAN, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder: Morgan

Date: June 23 2000

Address: As above

RECEIVED
July 5 2000
GEOSCIENCE ASSESSMENT OFFICE
5. Work to be recorded and distributed. Work that is performed on Crown Lands that are subsequently staked, can be claimed at 100% of its value (state this amount in column "a" below). If work is performed on Crown not enclosed within a subsequently recorded claim, it can be claimed at 25% of its value (state this amount in column "b" below). Work can only be assigned to claims that are contiguous to (adjoining) the lands where work was performed at the work was performed. A map showing the contiguous link must accompany this form.

<table>
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<th>Mining Claim Number</th>
<th>No. of Claim Units</th>
<th>Value of work performed before recording a mining claim</th>
<th>Value of work applied to this claim</th>
<th>Value of work assigned to other mining claims</th>
<th>Bank. Value of work to be distributed at a later date</th>
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Column Totals: 12, 4,158

1. **JOHN HARTLEY MORGAN**, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

6. Instruction for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- [ ] 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- [ ] 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- [✓] 3. Credits are to be cut back equally over all claims listed in this declaration; or
- [ ] 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.
**Statement of Costs for Assessment Credit**

Ministry of Northern Development and Mines

<table>
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<th>Units of work</th>
<th>Cost Per Unit of work</th>
<th>Total Cost</th>
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<tr>
<td>REPORT</td>
<td>2 days (a)</td>
<td>$40/diem</td>
<td>400</td>
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Associated Costs (e.g. supplies, mobilization and demobilization):

- Mobilization + Demobilization: 6 hrs (a) $30 180
- Supplies: 10 days (a) $12 120

Transportation Costs:

- 45.0 km (a) $0.35 158

Food and Lodging Costs:

- 10 days (a) $40 400

Total Value of Assessment Work 4,158

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

\[
\text{Total Value of Assessment Work} \times 0.50 = \text{Total $ value of work claimed.}
\]

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, **JOHN HARTLEY MORGAN** (please print full name) do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declarational Work form as **RECORDED HOLDER** (recorded holder, agent, or state company position with signing authority).

Signature ___________________________ Date 23/01/2000

Total Value of Assessment Work 4,158
July 12, 2000

JOHN HARTLEY MORGAN
2835 LAKESHORE BLVD. W.
APT #215
ETOBICOKE, Ontario
M8V-3V8

Dear Sir or Madam:

Submission Number: 2.20392

Status

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact BRUCE GATES by e-mail at bruce.gates@ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

Steve B. Beneteau
Acting Supervisor, Geoscience Assessment Office
Mining Lands Section

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm
Work Report Assessment Results

**Submission Number:** 2.20392

**Date Correspondence Sent:** July 12, 2000

**Assessor:** BRUCE GATES

<table>
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<th>First Claim Number</th>
<th>Township(s) / Area(s)</th>
<th>Status</th>
<th>Approval Date</th>
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<tr>
<td>W0060.00303</td>
<td>1151241</td>
<td>GARVEY</td>
<td>Approval</td>
<td>July 11, 2000</td>
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**Section:**
9 Prospecting PROSP

**Correspondence to:**
Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**
JOHN HARTLEY MORGAN
ETOBICOKE, Ontario
INDEX TO LAND DISPOSITION

Plate: G-974
Township: GARVEY

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

AERAS WITHDRAWN FROM DISPOSITION

MRO - Mineral Rights Only
SMO - Surface Rights Only
MM - Mineral and Surface Rights

 parcel: surveyed or unsurveyed

Parcel: surveyed or unsurveyed

Transmission Lines

DISPOSITION OF CROWN LANDS

Reserved
Survey Line
Crown Lands
Mine Lands
Fenced

PA\\nCROWN LANDS

The information that appears on this map has been compiled from various sources and accuracy is not guaranteed. Those wishing to stake mining claims should consult with the Ministry of Northern Development and Mines for additional information on the status of the lands shown.

Map drawing and land disposition drafting by Survey and Mapping

PLACED IN SERVICE. 28 APR 02

The information that appears on this map has been compiled from various sources and accuracy is not guaranteed. Those wishing to stake mining claims should consult with the Ministry of Northern Development and Mines for additional information on the status of the lands shown.

Map drawing and land disposition drafting by Survey and Mapping

PLACED IN SERVICE. 28 APR 02