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REPORT ON DRILLING, STRIPPING AND  
PREPARATION OF A SITE PLAN ON A  
PROSPECTIVE DIMENSION STONE SOURCE ON THE  
BLACK LAKE PROPERTY  
THE PARRY SOUND DISTRICT OF ONTARIO

by

JAMES R. TRUSLER

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LAT.: 45°37'19"N - 45°38'40"N  
NTS: 41H/9

DATE: January 30, 1997

**REPORT ON DRILLING,STRIPPING AND  
PREPARATION OF A SITE PLAN ON A  
PROSPECTIVE DIMENSION STONE SOURCE ON THE  
BLACK LAKE PROPERTY  
THE PARRY SOUND DISTRICT OF ONTARIO**

**SUMMARY**

The Parry Sound area of Ontario is underlain by complex gneisses and migmatites of Middle to Late Proterozoic age which are part of the Ontario segment of the Central Gneiss Belt of the Grenville Structural Province. A working model of thrust plates (called domains and sub-domains) which are separated by ductile thrust faults and moved in a northwesterly direction upon each other has been postulated by Davidson et al (1982). Easton (1992) has improved this model in his synopsis using a hierarchy of terranes and domains wherein the terranes include domains of similar age which are autochthonous with respect to each other. Age dating has indicated that four of these large scale terranes or plates are stacked on each other with the base being near Sudbury at the Grenville Front and the top being near Kingston.

Despite the recent wealth of scholarly publications a comprehensive geological map has not yet been made available for the area. However, the limited information available has enabled the clear identification of potentially favourable conditions for both flagstone and dimension stone. Several flagstone occurrences cluster along Davidson's thrusts and several potential dimension stone prospects have been identified within the interior of particular domains.

Although one may ordinarily not expect to find dimension stone within tectonite terranes, it is evident that the autochthonous nature of some of the domains combined with annealing effect of later superimposed amphibolite facies metamorphism preserved large competent blocks of migmatites and gneisses.

As a result of mapping dimension stone potential, and sawing and polishing specimens from many prospects. Seven sites in the Britt domain, and one in each of the Rosseau and Moon River domains have been staked and mapped by the writer resulting in the definition of a large number of potential quarry sites. The ten claim unit Black Lake property is one of these.

The property is underlain by the Bolger pluton which is a circum 1450 Ma megacrystic granite intrusion. A highly strained megacrystic unit trends northeasterly across the northwestern portion of the property bounded on the southeast by derived complex migmatites. The migmatite in the south half of lot 26 concession II has been drill tested and test quarried with positive results by a previous claim holder.

A 25.5 foot vertical drill hole was put down on a site west of the one previously tested by Pacific Granitestone in a similar multicoloured migmatite. Stripping of an area

approximately 50 metres square was followed up with mapping of the joints and preparation of a detailed site plan in the period August through October, 1996.

The exposed area revealed a very attractive multicoloured migmatite with deep red, black and white shades laminated layered and complexly intermixed. The site is contained in a recumbent fold requiring more drill evaluation for a check on consistency. The drill hole exposed similar attractive material to the exposed surface outcrop. Unfortunately the core was fractured every 12 centimetres on average. Adjustments to achieve less core breakage were made before this drilling as a swivel was obtained to allow free movement of the core barrel. It is believed that vibration and the poor mounted setup of the rig may still be causing problems. All of the fractures were fresh suggesting that the drill tools are still preventing undisturbed recovery of core.

The site will require drilling in more detail and a larger core diameter should be obtained to eliminate the core breakage problem.



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## **INTRODUCTION**

In 1991, the writer commenced a project to evaluate the flagstone and dimension stone resources of the Parry Sound area. At the same time efforts by former Ministry of Northern Development and Mines geologists, principally Chris Marmont and Dave Villard, were being made to outline the substantial potential for these stone resources and make the public aware of the opportunity. In 1992, the regional investigation of flagstone resources by the writer proved discouraging. It was decided late in the field season to focus solely on the dimension stone potential.

By the end of 1992, many prospective dimension stone sites had been identified by either government publications or by the writer's prospecting. Nine of these dimension stone properties have now been staked by the writer, and an initial evaluation of each property involving geological mapping of the outcrops at a scale of 1:5,000 has been completed. The work provides an initial evaluation of potential quarry sites on each property. The project has been supported by the Ontario Prospector's Assistance Program in 1992, 1993, 1995 and 1996.

In October, 1992, a two claim unit portion of the Black Lake property was staked for its dimension stone potential. Geological mapping was carried out in 1993. In the meantime an adjacent property being tested by Pacific Granitestone Ltd. lapsed and the writer staked eight claim units in October, 1994. The acquired claims contain one quarry site from which Pacific Granitestone removed seven large blocks for processing. This report is the result of drilling one 25.5 foot hole and stripping and preparation of a plan of the stripping and joint patterns on a dimension stone prospect in lot 26 Concession 2, Burton Twp.

The format of the report is formulated in compliance with assessment submission requirements.

## **LOCATION AND ACCESS**

The property is located in Burton Township, Parry Sound District, Southern Ontario Mining District, and Sudbury District Regional Geologist's area approximately 165 miles (264 km) north of Toronto (Figure 1). The property is bounded by longitudes 80°10'41"W on the west and 80°10'41"W on the east and latitudes 45°37'19"N on the south and 45°38'40"N on the north. The corresponding UTM co-ordinates in metres are 564,031 on the west, 565,800 on the east, 5,052,150 on the south and 5,054,342 on the north. The property is within National Topographic System area 41H/9 and is recorded on claim map G3884.

The Black Lake property is in Burton Township, and can be accessed by a hydro access road which leads one some seven kilometres west of the town of Ardbeg. Ardbeg is at the western terminus of Highway 520 which can be reached by exiting Highway 124 at Waubamik, 11 kilometres northeast of Parry Sound and following a secondary road for twenty five kilometres to the north.

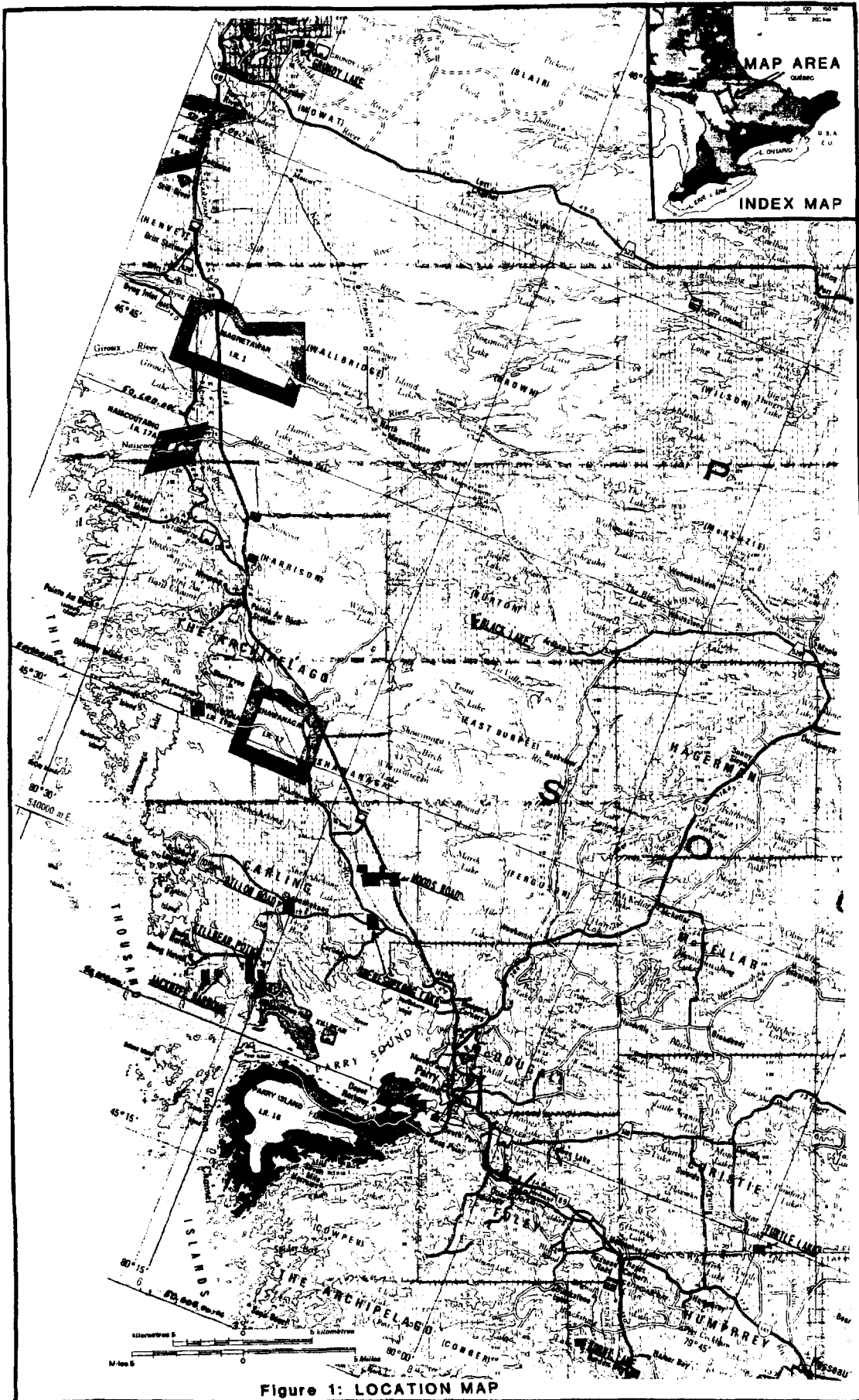


Figure 1: LOCATION MAP

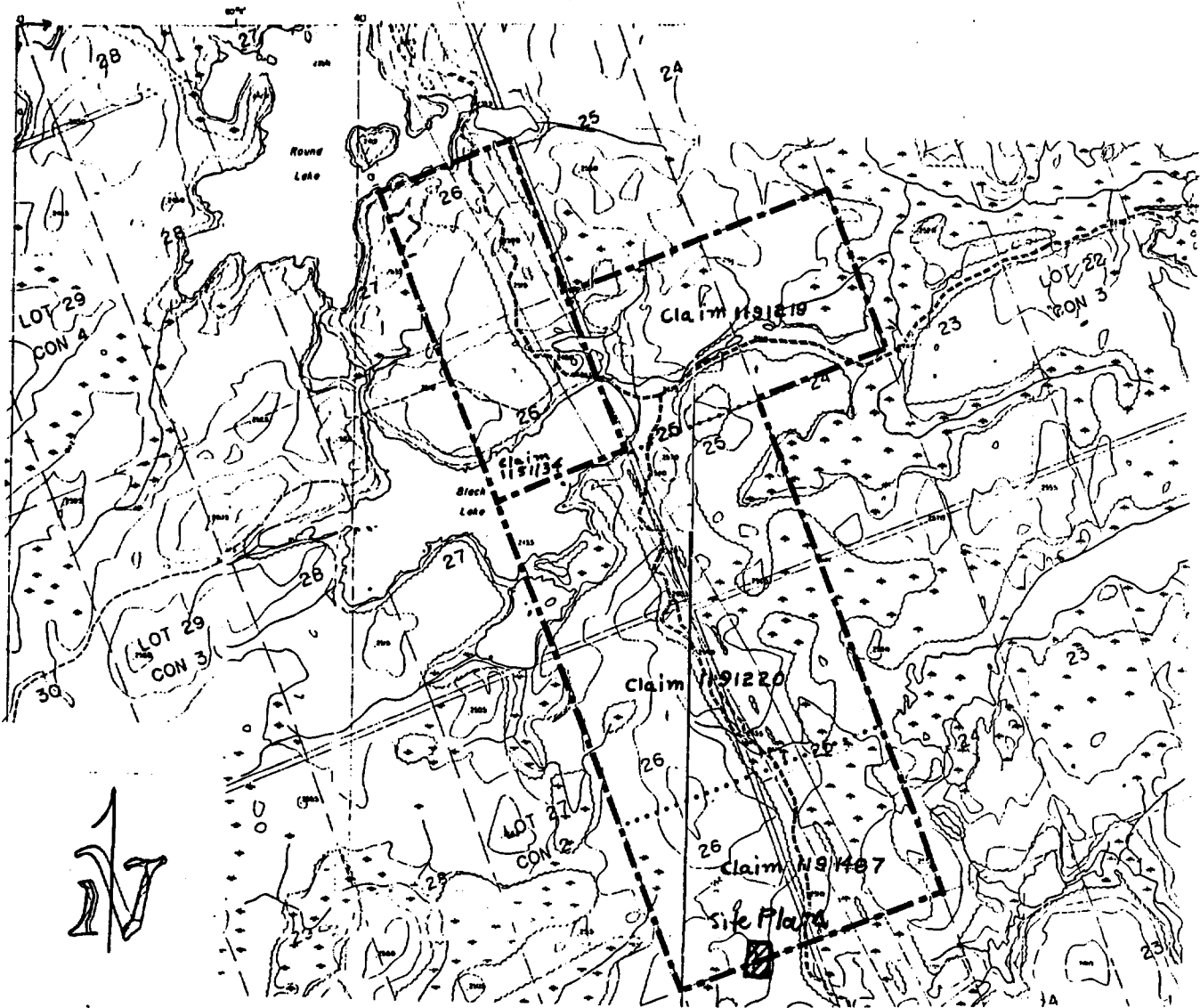
## PROPERTY

The Black Lake property comprises approximately 500 acres and is more particularly described in TABLE 1 (Figure 2).

Assessment will be filed for the current work on the claims, and it is anticipated, as a result, that sufficient credits should be available to keep the entire claim group in good standing for some two years from the date of submission.

**TABLE 1: BLACK LAKE PROPERTY**

<u>Claim No</u>	<u>Township</u>	<u>Lot</u>	<u>Conc.</u>	<u>Area</u>	<u>Recording Date</u>
1151134	Burton	S/2 26	IV		
		N/2 26	III	100 ac	Oct. 8, 1992
1191219	Burton	N/2 24,25	III	100 ac	Nov. 14, 1994
1191220	Burton	N/2 25,26	II		
		S/2 25,26	III	200 ac	Nov. 14, 1994
1191487	Burton	S/2 25, 26	II	100 ac	Nov. 14, 1994



Scale: 1:20,000  
Figure 2: Property Map

## **DATES WORKED METHODS USED ON CURRENT PROJECT**

Preparation work on the project commenced on April 19, 1996, the field work commenced on June 23, 1996 and the map drafting and report writing was completed on January 30, 1997. Actual work days for assessment purposes break down as follows:

### **Black Lake Property: Claims SO1191219, 1191220 and 1191487**

Preparation: Apr. 19, 1996 (1 day)

Field: Apr. 20, June 23, 1996 (½day orienting drilling and stripping; ½day spotting hole)

Drilling: Aug. 24,25,26 ( 9 man days Marc Robert, Paul Jamieson, Dave Jamieson)

Stripping: Aug. 25, 26, 29, 31, Oct. 8, 21, 22, 1996 (8½ man days). Work performed by Dave Jamieson, Marc Roberts and Jim Trusler the latter doing 3 man days of stripping. The work was done with a Wajax pump, adze, chain saw and shovels. A continuous strip within a 50metre square area was cleared to bedrock to enable mapping of the bedrock.

Mapping: Oct, 21, 22, 27, 28, 1996 ( 3man days) Jim Trusler

Drafting: Jan 29, 1997 (1 day)

Report Preparation: Jan 30, 1997 ( 1day)

The magnetic declination used in the field work is 10°-15'W.

Preparation for field work was done using a previously scanned air photo image which had been registered to the Ontario Base Map digital data in 1995. This image was changed from a .tif file to a jpg file in Graphic Workshops and an image was produced at a scale of 1:500 scale using L View Pro software. This enabled absolute positioning in the field and saves a great amount of time in establishing control.

## **RESULTS OF DRILLING AND STRIPPING**

A potential dimension stone site is located to the west of the hydro line road in the south half of lot 26, Concession 2, Burton Twp. The area is 300 metres X 400 metres and rises 10 metres above the surrounding area. This is the area that was selected for drilling and stripping in 1996. The site hosts similar material to that material previously removed from the Pacific Granitestone quarry and is immediately west of that quarry.

The site plan covers an area 100 metres X 50 metres and a vertical rise of 7 metres, and its location is indexed on Figure 2. The site exposes some lit par lit red, black and white, multicoloured migmatite which is exposed over a large portion of a hill which is 300 metres X 300 metres and rises 10 to 15 metres above the surrounding drainage. Sub-horizontal joint spacings exceed 2 metres and vertical joint spacings are from 2 to 10 metres. The major joint strikes between 160° and 180° parallel to the axis of the hill. Three minor discontinuous cross joints were seen at azimuths ranging from 20° to 80°. The gneissic foliation is uniform at 160° dipping 20°E. A subhorizontal joint is apparently parallel to the gneissic foliation. It is apparent that the joint separation on the sub-horizontal set is possibly up to 4 metres. The hill is contained in a recumbent fold and the overall symmetry



has not been completely mapped out.

Drill hole BL96-1 was drilled vertically for 25.5 ft. To test this material. The rock is very attractive as described in outcrop. Unfortunately the core was broken on average every 13 cm. All of the fracture surfaces are fresh breaks and it was concluded that the drill was not properly anchored in order to prevent excessive vibration and torque on the core . This test will need to be done again with better suited drilling tools in order to ascertain the horizontal joint seperation.

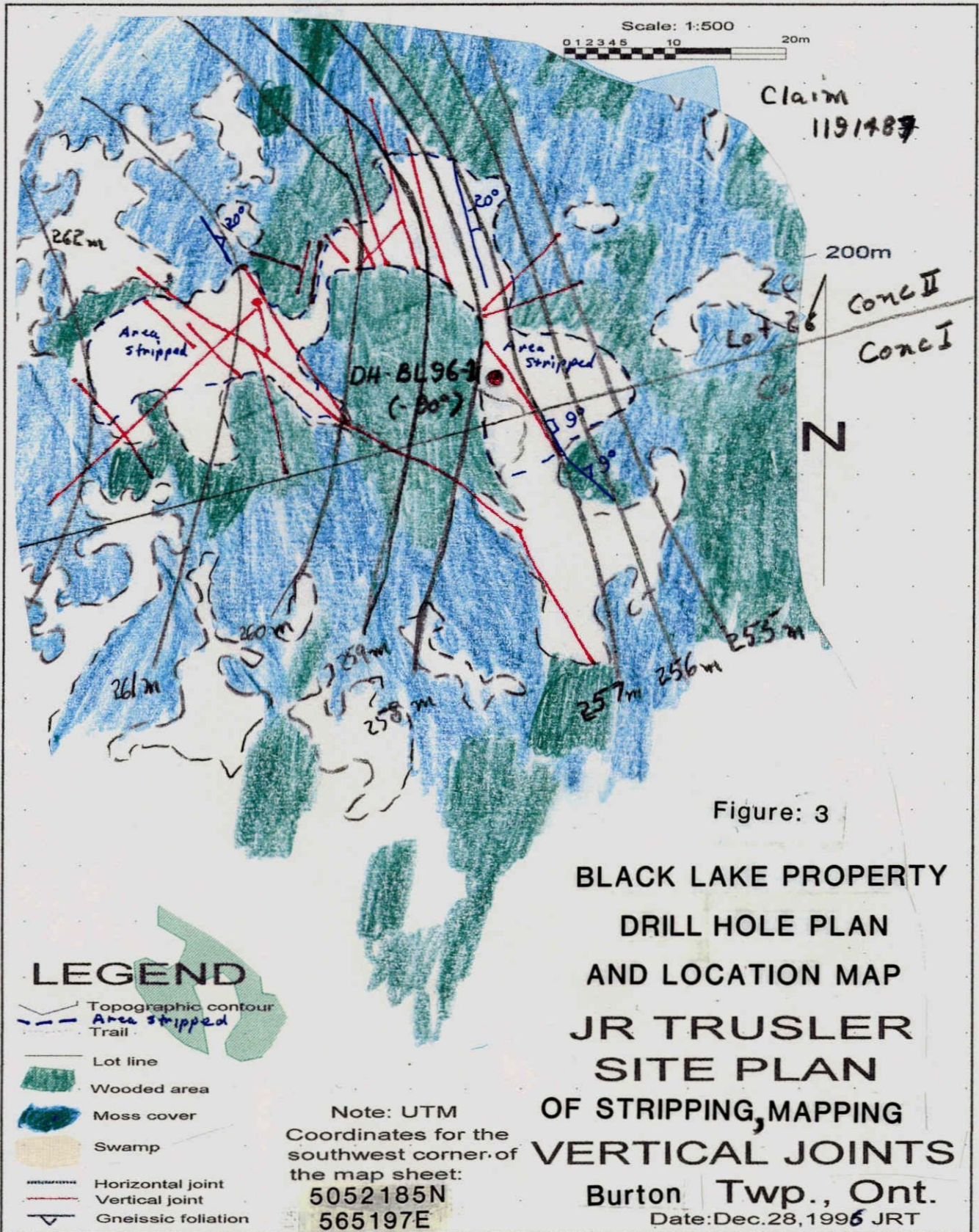


Figure: 3

○ Areas stripped expose multicolored migmatite

Co-ords 112 N 1211 E

DIAMOND DRILL RECORD

HOLE NO.: BL96-1  
 Property: Black Lake  
 Claim No.: 1191487  
 Township: BURTON  
 Lot/Conc: 26 II  
 Date Started: Aug. 24, 1996  
 Date Completed: Aug 26, 1996  
 Logged By: J R Trusler  
 Date Logged: Sept.23, 1996  
 Measure: Metric  
 NTS: 41H/9  
 Core Size: AX  
 Core Stored At: AURORA

Azimuth 0.0

\*\*\* Dip Tests \*\*\*

Dip -90.0

Depth Az. Dip

Elevation: ~~258~~ m ASL

0.0 0.0 -90

Length: 7.48

Contractor: D.R. Jamieson Geological Consultants Ltd.

Purpose: TO TEST DIMENSION STONE POTENTIAL

Note: GRID REFERENCED TO SW CORNER OF PROPERTY

SW CORNER OF PROPERTY AT UTM 564031E AND 5052150N

From (m)	To (m)	Description
----------	--------	-------------

0.0	7.48	<p><b>MIGMATITE</b></p> <p>Mixed layered rock with variegated, multicoloured, gneissic texture with at least three distinct phases with complexly blended colours: bright hematitic red speckled within light grey medium grained component; a salt and pepper coarse grained pegmatitic constituent with white, pink and black speckles and a black and white laminated constituent; rock is generally thickly laminated and thinly layered. Hornblende is the major mafic mineral at 20% concentration overall, approximately 1% magnetite, apatite and/or epidote approximately 1% in neosome sections, minor leucoxene, &lt;1% almandine garnet within aggregates of mafic minerals, minor chlorite in the centre of some amphiboles, 15% quartz and 60 to 70% feldspar (comprising both plagioclase and microcline) . Most feldspars are equant, but many larger ones are euhedral but slightly strained. The leucosome phase comprises approximately 65% of the core section and the paleosome phase comprises approximately 35%. The gneissic foliation varies from 45° to 90° to the core axis; over five folds were evident in the core section but are within an evident recumbent fold where the hole is collared.</p>
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7.71 End of hole

Fracturing in hole due to uncontrolled torque was noted in centimetres from the top of the hole as follows: 1, 16, 27, 32, 35, 38, 45, 49, 73, 78, 88, 93, 102, 106, 117, 125, 174, 190, 212, 224, 235, 254, 274, 308, 324, 327, 330, 336, 344, 370, 377, 384, 418, 428, 436, 449, 459, 477, 507, 518, 521, 527, 541, 555, 566, 576, 589, 599, 615, 627, 641, 644, 649, 655 (vuggy), 669, 676, 694, 697, 722, 740, 748.

## **CONCLUSIONS**

The Britt domain comprises a complexly deformed and metamorphosed series of rocks. Although some of the rocks are metasedimentary in origin the preponderance of the rocks were originally plutonic, but have been changed by dynamic and thermal metamorphism. The final stages of this metamorphism appear to have annealed the rock into a compact and durable material having some relict textures and many overlapping and lively features.

Nine dimension stone prospects were staked in the Parry Sound area, and all have been mapped geologically. Many of the rocks underlying these properties are migmatitic derivatives of granitic intrusions and present a great variety of textures. In some cases it is evident that the paleosome constituent was megacrystic and subsequent neosome phases have distinct compositions and fabrics. The sites were chosen for their attractiveness and the apparent availability of accessible large blocks.

Two sites on the currently mapped portion of the Black Lake property warrant further attention. Both sites are underlain by a variegated migmatitic derivative of megacrystic granite, covering areas 300 metres X 400 metres and 400 metres X 600 metres respectively. These two areas contain a significant dimension stone resource and the one area is partially developed with a quarry and drill tested. Site planning, detailed mapping, and a drill hole were completed in 1996 in order to test the site in lot 26, Conc. 2 Burton Twp. The exposed area revealed a very attractive multicoloured migmatite with deep red, black and white shades laminated layered and complexly intermixed. The site is contained in a recumbent fold requiring more drill evaluation for a check on consistency. The drill hole exposed similar attractive material to the exposed surface outcrop. Unfortunately the core was fractured every 13 centimetres on average. Adjustments to achieve less core breakage were made before this drilling as a swivel was obtained to allow free movement of the core barrel. It is believed that vibration and the poor mounted setup of the rig may still be causing problems. All of the fractures were fresh suggesting that the drill tools are still preventing undisturbed recovery of core.

The site will require drilling in more detail and a larger core diameter should be obtained to eliminate the core breakage problem.

## **RECOMMENDATIONS**

1. It is recommended that the site underlain by migmatite on lot 26, Concession 2, Burton Twp. be drilled again in order to retrieve unbroken core. A larger diameter core should be obtained and more stable, variable rate drill should be used.

## REFERENCES

- Bell, R. 1876. Report on geological researches north of Lake Huron and east of Lake Superior; in Geological Survey of Canada Report on Progress 1876-77.
- Bennett, P.J. 1975. The deformation of the northern half of the Brandy Lake Complex, Port Carling, Ontario. M.Sc. thesis, Department of Geology, University of Toronto, Toronto, Ont.
- Bright, E.G. 1987. Precambrian geology of the Whitestone Lake area, District of Parry Sound; Ontario Geological Survey, Map P.3095, Geological Series-Preliminary Map, scale 1:15,840, geology 1986.
- Culshaw, N.G., Davidson, A., and Nadeau, L. 1983. Structural subdivisions of the Grenville Province in the Parry Sound-Algonquin region, Ontario; in Current research , pt. B, Geological Survey of Canada, Paper 83-1B, p.243-252.
- Culshaw, N.G., Corrigan, D., Drage, J., and Wallace, P. 1988. Georgian Bay geological synthesis: Key Harbour to Dillon, Grenville Province of Ontario; in Current research, Part C, Geological Survey of Canada, Paper 88-1C, p.129-133.
- Davidson, A. 1984a. Identification of ductile shear zones in the southwestern Grenville Province of the Canadian Shield. In Precambrian tectonics illustrated. Edited by A. Kröner and R. Greiling. E. Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller), Stuttgart, Germany, pp. 263-279.
- \_\_\_\_\_ 1984b. Tectonic boundaries within the Grenville Province of the Canadian Shield. *Journal of Geodynamics*, 1: 433-444.
- \_\_\_\_\_ 1986. New interpretations in the southwestern Grenville Province, edited by J.M. Moore, A. Davidson and A. Baer, Geological Association of Canada, Special Paper 31, p.61-74
- Davidson, A. and Morgan, W.C. 1981. Preliminary notes on the geology east of Georgian Bay, Grenville Structural Province, Ontario; in Current research, pt. A, Geological Survey of Canada, Paper 81-1A, p.291-298.
- Davidson, A., Culshaw, N. and Nadeau, L. 1982. A tectono-metamorphic framework for part of the Grenville Province, Parry Sound region, Ontario; in Current research, pt.A, Geological Survey of Canada, Paper 82-1A, p.175-190.
- Fahrig, W.F. and West, T. 1986. Diabase dyke swarms of the Canadian shield; Geological Survey of Canada, Map 1627A, scale 1:4,873,900.

- Fouts, C.R. and Marmont C. 1989. Gneisses of the Parry Sound-Muskoka Area; Flagstone resources, Ontario Geological Survey, Open File Report 5725
- Garland, M. 1987. Graphite in the Central gneiss belt of the Grenville Province of Ontario; Ontario Geological Survey, Open File Report 5649.
- Hanmer, S. 1984. Strain-insensitive foliations in polymineralic rocks; Canadian Journal of Earth Sciences, v.21, p.1410-1414.
- \_\_\_\_\_ 1988. Ductile thrusting at the mid-crustal level, southwestern Grenville Province; Canadian Journal of Earth Sciences, v.25, p.1049-1059.
- Harrison, J.C. 1977. Geology and structure of the Go Home Bay area, District of Muskoka, Ontario. B.Sc. thesis, Department of Geology, University of Toronto, Toronto, Ont.
- Hewitt, D.F. 1967. Geology and mineral deposits of the Parry Sound -Huntsville area; Ontario Geological Survey, Geological Report 52, 65p.
- Innes, D. G. 1992. Assessment Work Report, Ardbeg Property, Burton Township, Ontario, 1886 Holdings Ltd. Ont Min of Nor Dev and Mines Assessment files.
- Lacy, W.C. 1960. Geology of the Dunchurch area, Ontario; Geological Society of America Bulletin, Volume 71, p.1713-1718
- Lashbrook, Raymond L. 1990a. Geological Report on The Woods Road Property, Carling Township, Ontario. 1886 Holdings Ltd. Ont Min of Nor Dev and Mines Assessment files.
- 1990b. Geological Report on Burton Township, Ontario. 1886 Holdings Ltd. Ont Min of Nor Dev and Mines Assessment files.
- Lindia, F.M., Thomas, M.D. and Davidson, A. 1983. Geological significance of the Bouger gravity anomalies in the region of the Parry Sound domain, Grenville Province, Ontario; in Current research , ptB, Geological Survey of Canada, Paper 83-1B, p.261-266.
- Lumbers, S.B. 1975. Geology of the Burwash area; Ontario Division of Mines, Geological Report 116,160 p., with Map 2271 scale 1:126,720.
- Macfie, R.I. 1988. Preliminary investigation of the Parry Sound -Seguin domain boundary; in Summary of field work and other activities 1988, by the Ontario Geological survey, Ontario Geological Survey, Miscellaneous Paper 141, p.315-318.

- Macfie, R.I. and Dixon, J. M. 1990. Tectonic relations among Parry Sound domain and Seguin and Rosseau sub-domains Grant 370; in Geoscience Research Grant Program Summary of Research 1989-1990, Ontario Geological Survey, Miscellaneous Paper 150, 1990, p.200-212.
- Marmont, C., Zuberec, P.M., and Conrod, W.D. 1988. Industrial minerals, rare-earth elements, and building stone in the Districts of Muskoka, Parry Sound, and Nipissing and the County of Haliburton; in Summary of Field Work and Other Activities 1988, by the Ontario Geological Survey, Ontario Geological Survey, Miscellaneous Paper 141, p.319-325.
- Marmont, C. 1992. Industrial minerals and building stone in the Districts of Nipissing, Parry Sound and Sudbury; in Summary of Field Work and Other Activities 1992, Ontario Geological Survey Miscellaneous Paper 160, p.261-265.
1992. Building Stone Opportunities in Central Ontario -1991 Supplement. Ontario Geological Survey, Open File Report 5825, 20p.
1993. Exploration Guidelines and Opportunities for Dimensional Stone in Central Ontario. Ontario Geological Survey, Open File Report 5853, 83p.
- McRoberts, G., Macfie, R.I. and Hammar, D.J. 1988. Geology of the Manitouwabing Lake area, District of Parry Sound; in Summary of Field Work and Other Activities 1988, by the Ontario Geological Survey, Ontario Geological Survey, Miscellaneous Paper 141, p.309-314.
- McRoberts, G., and Tremblay, M.L, 1988. Precambrian geology of the Ferrie River area, District of Parry Sound; Ontario Geological Survey, Map P. 3123, Geological Series-Preliminary Map, scale 1:15,840
- Murray, A. 1848. On an examination of the shores, islands and rivers of Lake Huron including parts of the east coast of Hudson Bay and the Spanish River; in Geological Survey of Canada Report of Progress 1848-49.
- Nadeau, L. 1984. Deformation of leucogabbro at Parry Sound, Ontario. M.Sc. thesis, Carlton University, Ottawa, Ont.
- Parks, W.A. 1900. Work in the Muskoka district, Ontario; in Geological Survey of Canada, Summary report for 1900, part A pp.121-126 (pub 1901).
- Satterly, J. 1942. Mineral Occurrences in Parry Sound District, Ontario Department of Mines, v.51,Part 2,41p. with Map 1942-2.
- Satterly, J. 1955. Geology of Lount Township; Ontario Department of Mines Annual Report, v.64, Part 6, 43p., with Map 1955-4, scale 1:31,680.

- Schwerdtner, W. M., and Bauer, G. 1975. Tectonic significance of mylonite zones. *Neues Jahrbuch für Mineralogie, Monatshefte*, No. 11: 500-509.
- Schwerdtner, W.M., and Mawer, C.K. 1982. Geology of the Gravenhurst region , Grenville Structural Province, Ontario. In *Current research, part B. Geological Survey of Canada, Paper 82-1B*, pp. 195 - 207.
- Schwerdtner, W.M., and Waddington, D.H. 1978. Structure and Lithology of Muskoka - southern Georgian Bay region, Central Ontario. In *Toronto '78 Field Trips Guidebook*. Edited by A.L. Currie and W.O. Mackasey. Geological Association of Canada, pp. 204-212.
- Schwerdtner, W.M., Waddington, D.H., and Stollery, G. 1974. Polycrystalline pseudomorphs as natural gauges of incremental paleostrain. *Neues Jahrbuch für Mineralogie, Monatshefte*, No. 3/4: 174-182.
- Schwerdtner, W.M., Bennett, P.J., and Janes, T.W. 1977. Application of L-S fabric scheme to structural mapping and paleostrain analysis. *Canadian Journal of Earth Sciences*, 14: 1021-1032.
- Schwerdtner, W.M., Mawer, C.K., and Hubbs, A. F. 1981. Geology of the Gravenhurst region, Grenville Structural Province, Ontario: Preliminary mapping results. In *Current research, part B, Geological Survey of Canada, Paper 81-1B*, pp. 167-169.
- Schwerdtner, W.M. 1987. Interplay between folding and ductile shearing in the Proterozoic crust of the Muskoka-Parry Sound region, central Ontario; *Canadian Journal of Earth Sciences*, v.24, p.1507-1525.
- Tremblay, M.L. 1988. Remote sensing study of curvilinear, structural features in the Parry Sound domain, Grenville Province; in *Summary of field work and other activities 1988, Ontario Geological Survey Miscellaneous Paper 141* pp.326-329.
- Trusler, J.R. and Villard, D.J. 1980. Geology of the Parry Sound-Sans Souci map area; scale 1:31,680, unpublished manuscript and map done for the Ontario Ministry of Natural Resources.
- Trusler, J.R. 1992. Prospecting Programme for Flagstone and Decorative Stone in the Parry Sound District of Ontario. OPAP File No.: OP92-174
- 1993a. Geological Reconnaissance for Flagstone and Dimension Stone in the Parry Sound District of Ontario; Regional survey submitted to Assessment Files, Ontario Geological Survey.



Trusler, J.R. 1993b. A Geological Survey of the Dimension Stone Resources on the Killbear Point Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

1993c. A Geological Survey of the Dimension Stone Resources on the Black Lake Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

1993d. A Geological Survey of the Dimension Stone Resources on the Burnt Lake Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

1993e. A Geological Survey of the Dimension Stone Resources on the Dillon Road Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

1993f. A Geological Survey of the Dimension Stone Resources on the Shebeshekong Lake Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

1993g. A Geological Survey of the Dimension Stone Resources on the Grundy Lake Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

1993h. A Geological Survey of the Dimension Stone Resources on the Jackknife Harbour Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

1993i. A Geological Survey of the Dimension Stone Resources on the Turtle Lake Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

1993j. A Geological Survey of the Dimension Stone Resources on the Woods Road Property, Parry Sound District of Ontario; survey submitted to Assessment Files, Ontario Geological Survey.

van Berkel, J.T., and Schwerdtner, W.M., W.M. 1986. Structural geology of the Moon River area. Ontario Geological Survey, P2954(with marginal notes).

van Breeman, O., Davidson, A., Loveridge, W.D. and Sullivan, R.W. 1986. U-Pb zircon geochronology of the Grenville tectonites, granulites and igneous precursors, Parry Sound, Ontario; in *The Grenville Province*, edited by J.M. Moore, A. Davidson and A. Baer, Geological Association of Canada, Special Paper 31, p.191-208.

Waddington, D.H. 1973. Foliation and mineral lineation in the Moon River synform, Grenville Structural Province, Ontario. M.Sc. thesis, University of Toronto, Toronto, Ont.

Walker, T.L. 1905. The Muskoka district, Ontario; in Geological Survey of Canada, Summary report for 1905, p.84-86, (published 1906)

\_\_\_\_\_ 1913. The precambrian of Parry Island and vicinity; in Geological Survey of Canada Guide Book No. 5., p. 98-100.

Wynne-Edwards, H. R. 1972. The Grenville Province; in Variations in tectonic style in Canada, edited by R.A. Price and R.J.W. Douglas, Geological Association of Canada, Special Paper 11, p263-344.

258 m ASL

Hole Collar @ 90°



Migmatite : mixed layered rock derived from megacrystic granite

EOL 7.48 m

**J R TRUSLER AND ASSOCIATES  
MINERAL CONSULTANTS**

**BLACK LAKE PROPERTY  
DRILL HOLE SECTION  
DRILL HOLE BL96-1  
BURTON TWP. ONTARIO**

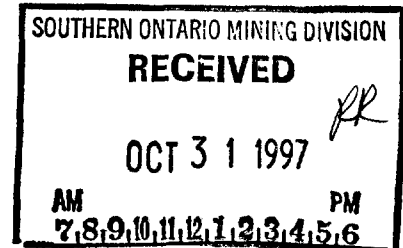


## AUTHOR'S CERTIFICATE

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GEOLOGICAL ENGINEER.

b. Qualifications:

B A Sc - Geological Engineering, University of Toronto, 1967  
M S - Geology, Michigan Technological University, 1972  
Professional Engineer - Ontario  
Fellow - Geological Association of Canada  
Member - Canadian Institute of Mining, Metallurgy and  
Petroleum

- c. This report is based on a review of all available relevant data; historical, and geological, on personal involvement as Regional Geologist, Algonquin Region, Ministry of Natural Resources from 1974 to 1980, and on a program of field mapping conducted within the area of this report in 1993. I have personally examined the properties and the surrounding area in the field.
- d. I have used my experience gained in geological mapping, the exploration for minerals, visits to most dimension stone quarries in North America, the definition of mineral deposits and the evaluation of properties (over 30 years) in preparation of this report.
- e. I hold an undivided 100% interest in the claims mentioned in this report, but do not expect to receive any remuneration for the report or as a result of statements made in this report.

Signed

Dated: January 30, 1997



*James R. Trusler*  
James R. Trusler M.S., P.Eng.



Ministry of  
Northern Development  
and Mines

### Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 66(2) and 66(3). R.S.O. 1990

Transaction Number (office use) <b>W9790.00130</b>
Assessment Files Research Imaging



41H09NE2001 2.17948 BURTON

Personal information collected under the Access to Information Act, the information is for the use of the Ministry of Northern Development and Mines. Questions about this collection should be directed to the Information Access Officer, 933 Ramsey Lake Road, Toronto, Ontario M3H 5K7.

of the Mining Act. Under section 8 of the Mining Act, the recorded holder of the mining land must file a declaration of assessment work performed on mining land with the Ministry of Northern Development and Mines, Ontario.

900

**RECEIVED**

Instructions: - For work performed on Crown Lands before recording a claim, use form 0210  
- Please type or print in ink.

OCT 31 1997  
PM  
7 8 9 10 11 12 1 2 3 4 5 6  
12:40

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

**2. 17948**

Name <b>James R Truster</b>	Client Number <b>203 403</b>
Address <b>143 Temperance St Aurora Ont L4G 2R5</b>	Telephone Number <b>905 727 9046</b>
	Fax Number <b>905 713 1633</b>
Name	Client Number
Address	Telephone Number
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling, stripping, trenching and associated assays       Rehabilitation

Work Type <b>drilling and stripping</b>	Office Use
	Commodity
	Total \$ Value of Work Claimed <b>7,289</b>
Dates Work Performed From <b>19 09 1996</b> To <b>23 01 1997</b>	NTS Reference
Global Positioning System Data (if available)	Mining Division <b>Sudbury</b>
Township/Area <b>Burton</b>	Resident Geologist District <b>Sudbury</b>
M or G-Plan Number <b>G 3884</b>	

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;  
- provide proper notice to surface rights holders before starting work;  
- 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.

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

Name <b>James R Truster</b>	Telephone Number <b>905-727-9046</b>
Address <b>143 Temperance St Aurora Ont L4G 2R5</b>	Fax Number <b>905-713-1633</b>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

**RECEIVED**  
NOV - 6 1997  
GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

I, **James R. Truster** (Print Name), 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 or Agent <i>James R Truster</i>	Date <b>Deemed Feb. 4/98</b>	Date <b>Oct 27, 1997</b>
Agent's Address	Telephone Number <b>905 727 9046</b>	Fax Number <b>905 713 1633</b>

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 SO 1191487	2	\$7289	800	4800	1689
2 SO 1191219	2		1600		
3 SO 1191220	4		3200		
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		\$7289	\$5600		\$1689

I, James R. Swisher, 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.

Signature of Recorded Holder or Agent Authorized in Writing: James R. Swisher Date: Oct 27 1997

6. Instructions 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.

For Office Use Only

Received Stamp	Deemed Approved Date (to last full)	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

OCT 31 1997

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions or comments should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Supervision <sup>logging</sup> <del>stripping</del> <del>reporting</del>	7 days	\$500/day	\$3500.00
Drilling	25.5 ft	\$26.75/ft	682.13
Stripping (by owner)	3 days	\$200/day	\$600.00
<del>Drilling</del>			
Stripping (contract)	5 1/2 days	\$214/day	\$1177.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
<del>Chainsaw rental</del>			
Wajax Pump Rental		\$107/day	\$535.00
maps, taxes, office supplies			\$35.03
<del>work</del> mobilization - demobilization		\$214/md	\$685.50
logging tape, film, photo finishing			\$42.80
Transportation Costs			
personal car 1300 km @ \$0.35/km		\$0.35/km	\$455.00
Food and Lodging Costs			
Food & Accommodation			\$96.30
Total Value of Assessment Work			\$7289.11

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:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total \$ value of worked 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, James Richard Truster, 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 Declaration of Work form as James R Truster I am authorized to make this certification. (recorded holder, agent, or state company position with signing authority)

NOV - 6 1997  
GEOSCIENCE ASSESSMENT

Signature: James R Truster Date: Oct 27 1997



Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



March 13, 1998

JAMES RICHARD TRUSLER  
143 TEMPERANCE ST.  
AURORA, Ontario  
L4G-2R5

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (705) 670-5881

Dear Sir or Madam:

**Submission Number: 2.17948**

**Status**

**Subject: Transaction Number(s):** W9790.00130 Approval After Notice

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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.

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 Lucille Jerome by e-mail at [jeromel2@epo.gov.on.ca](mailto:jeromel2@epo.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Blair Kite".

ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

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**Submission Number:** 2.17948

**Date Correspondence Sent:** March 13, 1998

**Assessor:** Lucille Jerome

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9790.00130	1191487	BURTON	Approval After Notice	March 12, 1998

**Section:**

16 Drilling PDRILL  
10 Physical PSTRIIP

The revisions outlined in the Notice dated February 3, 1998, have been corrected. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission.

**Correspondence to:**

Resident Geologist  
Tweed, ON

**Recorded Holder(s) and/or Agent(s):**

JAMES RICHARD TRUSLER  
AURORA, Ontario

Assessment Files Library  
Sudbury, ON

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