

# GM 62634

REPORT ON THE MONT-LAURIER URANIUM PROPERTY

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**Report on the Mont-Laurier Uranium property**

Péroudeau and Décarie Townships, Quebec  
NTS 31J/14

Prepared by  
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April, 2005

REÇU AU MRNF  
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## Summary

It is general knowledge that the demand for uranium is increasing while supplies decrease. Presently the world demand is about twice the mine production rate. The actual price of uranium is about \$22.00 US per lb and is expected to rise over the mid-term. Consequently various districts that were deemed of lower economic interest in the past are considered to represent good opportunities if the uranium price continues to rise.

Based on the above and following an in-depth review of potentially favourable areas for uranium in the province of Quebec, BBH Géo-Management Inc. recently mapped staked a block of 80 claims covering 4,710.6 hectares in Pérodeau and Décarie Townships, 40 kilometres northeast of the town of Mont-Laurier. The claims were transferred to Strateco Resources Inc. ("Strateco") in March, 2005.

The newly-acquired land holdings lie within the Cabonga – Mont-Laurier radioactive district of the Grenville Geological Province. Exploration activity in the district was sparked by the discovery of uranium mineralisation by Canadian Johns-Manville in 1967. Extensive claim staking over Lemay, Pérodeau and Franchère townships followed the next year. Exploration during the late 60's to early 70's outlined several gently-dipping stratiform zones of low-grade uranium mineralisation and numerous isolated showings. The uraniumiferous horizons occur at the base of a metamorphosed sedimentary sequence of Proterozoic age. Several notable zones with estimated tonnages (pre NI 43-101) have been outlined to the north of Strateco's land holdings; Allied Mining's Zone 1 (7.55 Mt @ 0.025% U<sub>3</sub>O<sub>8</sub>), Zone 2 (2.35 Mt @ 0.019% U<sub>3</sub>O<sub>8</sub>) and Zone 3 (2.10 Mt @ 0.014% U<sub>3</sub>O<sub>8</sub>), Canadian Johns-Manville's Zone 1 (0.48 Mt @ 0.042% U<sub>3</sub>O<sub>8</sub>), and Mont Laurier Uranium Mines' Tom Dick (1.39 Mt @ 0.037% U<sub>3</sub>O<sub>8</sub>) and Tom Dick North Zone (0.33 Mt @ 0.027% U<sub>3</sub>O<sub>8</sub>).

Strateco's land holdings cover ground previously held by Mont Laurier Uranium Mines Inc.. The claim block covers the west flank of a broad anticline and the prospective south extension of the Tom Dick uraniumiferous horizons. Mont Laurier Uranium Mines explored the grounds from 1969 to 1982, mainly under a joint venture with SOQUEM. SOQUEM, which had earned 100% interest in the land holdings, dropped the claims in 1986. A total of 115 shallow diamond drill holes were completed by Mont Laurier Uranium Mines and SOQUEM. The majority of the drilling was performed on the Tom Dick and Tom Dick North Zones, lying immediately north of Strateco's land holdings. The promising south extension of the Tom Dick uraniumiferous horizons host numerous prospects, which returned values of up to 0.59% U<sub>3</sub>O<sub>8</sub>. Uraniferous horizons were uncovered within the south-central portion of Strateco's land holdings, previously known as the Hanson Lake claims; the most notable is a 6-metre thick horizon that was traced over a strike length of 365 metres by trenching. The average grade from twelve trenches along this horizon was calculated at 0.047% U<sub>3</sub>O<sub>8</sub>. An estimated tonnage of 544,000 tons grading 0.075% U<sub>3</sub>O<sub>8</sub> is reported for this zone. The central portion of Strateco's land holdings, on strike between the Tom Dick and the Hanson Lake areas, has seen very little exploration.

To date, the discontinuous and patchy nature of the uranium mineralisation have discouraged prolonged intensive drilling over the Mont-Laurier district. Widespread radioactivity across the sedimentary sequence indicates the potential for significant tonnages of low grade material. Most of the Strateco's ground remains under-explored. An initial exploration phase consisting of an airborne spectrometer survey, geological compilation and interpretation, and ground follow-up of selected targets and drilling is recommended.

## **Introduction**

It is general knowledge that the demand for uranium is increasing while supplies decrease. Presently the world demand is about twice the mine production rate. The actual price of uranium is about \$22.00 US per lb and is expected to rise over the mid-term. Consequently various districts that were deemed of lower economic interest in the past are considered to represent good opportunities if the uranium price continues to rise.

Based on the above and following an in-depth review of potentially favourable areas for uranium in the province of Quebec, BBH Géo-Management Inc. acquired 80 claims in Pérodeau and Décarie Townships, some 40 kilometres northeast of the town of Mont-Laurier.

This report is an internal report and serves as an overview of past exploration work performed on the newly acquired grounds and immediate surroundings as well as present an initial exploration program. This report is not intended as Technical Report in compliance with NI 43-101 requirements. The review is based on assessment reports obtained from the Ministry of Natural Resources of Quebec (GM files). The list of reports are given in the reference section at the back of the report. A visit to the property was conducted by the author on April 5<sup>th</sup> 2005.

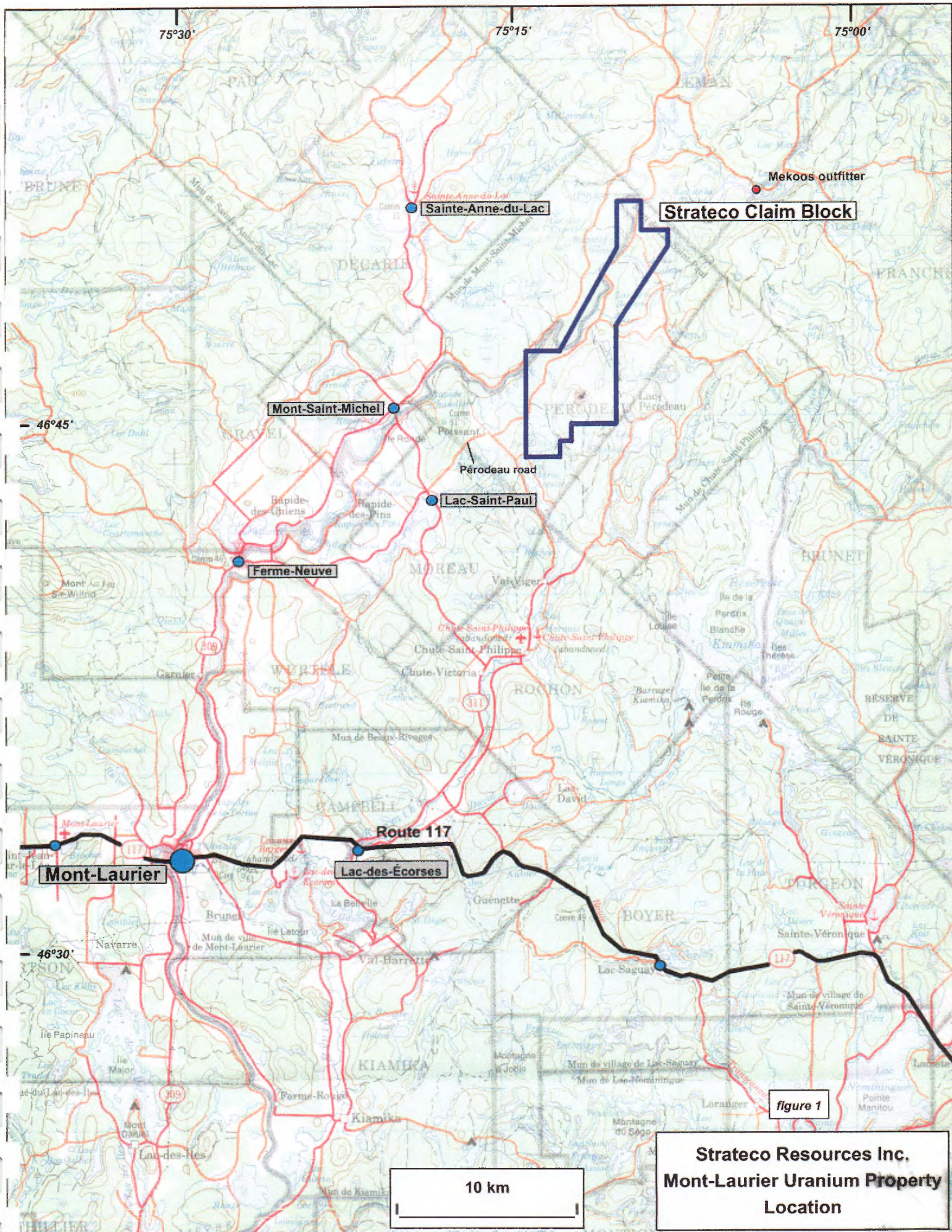
## **Location, Access and Property Description**

The Mont-Laurier Uranium property is located some 40 kilometres northeast of the town of Mont-Laurier in the Laurentides region of Quebec. The property is centred at 46°49'N latitude and 75°12'W longitude on NTS sheet 31J/14 (Sainte-Anne-du-Lac). Most of the claim block lies on the east side of the Lièvre river, a major southwest flowing drainage.

The property is easily accessible from route 117 at Mont-Laurier by following route 309 North for 19 kilometres to the village of Ferme-Neuve and then by turning right and crossing the Lièvre river and driving 14 kilometres to the village of Lac-Saint-Paul (fig. 1). From Lac-Saint-Paul the property is reached via the Pérodeau road, which bisects the property and follows the east side of the Lièvre river. The Pérodeau road is paved for 6.6 kilometres up to the western limit of the claim block and then turns into a well-maintained gravel road. The Mekoos outfitter, situated at 32.6 kilometres along the Pérodeau road, some 10 kilometres past the northern boundary of the claim block, offers modern logging facilities. The property can also be accessed from route 117 by taking route 311 North at the village of Lac-des-Écorses to the village of Lac-Saint-Paul.

Logging was active during the initial phases of exploration during the late 60's and early 70's and the project area is presently covered by a semi-mature forest of spruce and birch. Logging is still active over the area and small clear cuts with recent reforestation were observed along the Pérodeau road.

The property consists of 80 contiguous claim units covering 4,710.6 hectares in Pérodeau and Décarie Townships (fig. 2, Appendix I). Claim 0047547 at northern tip of the block overlaps into adjoining Lemans Township. The claim block is elongated north-south, covering over 14 kilometres in this direction. The claims were acquired by map staking in December, 2004, by BBH Géo-Management Inc.. The claims were transferred to Strateco Resources Inc. ("Strateco") in March, 2005.



**Strateco Claim Block**

**Sainte-Anne-du-Lac**

Mekoos outfitter

**Mont-Saint-Michel**

**Lac-Saint-Paul**

**Ferme-Neuve**

Pérodeau road

**Route 117**

**Mont-Laurier**

**Lac-des-Écorses**

**figure 1**

10 km

**Strateco Resources Inc.  
Mont-Laurier Uranium Property  
Location**

**PAGE DE DIMENSION HORS STANDARD**

**NUMÉRISÉE ET POSITIONNÉE À LA SUITE**

**DES PRÉSENTES PAGES STANDARDS**

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## History

The newly-acquired land holdings lie within the Cabonga – Mont-Laurier radioactive district of the Grenville Geological Province. Exploration activity in the district was sparked by the discovery of uranium mineralisation by Canadian Johns-Manville in 1967. Extensive claim staking over Leman, Pérodeau and Franchère Townships followed the next year. Exploration during the late 60's to early 70's outlined several gently-dipping ( $10^{\circ}$  to  $35^{\circ}$ ) stratiform zones of low-grade uranium mineralisation and numerous isolated occurrences. First-pass exploration consisted of airborne spectrometer surveys followed by ground follow-up of anomalies with scintillometer surveys, soil sampling, trenching, stripping and blasting, and rock sampling and geologic mapping. Intensive shallow diamond drilling occurred over the most promising occurrences. Four notable zones with estimated tonnage have been outlined on strike to the northeast of Strateco's land holdings (MB-94-17); Allied Mining's Zone 1 (7,550,000 t @ 0.025% U<sub>3</sub>O<sub>8</sub>), Zone 2 (2,350,000 t @ 0.019% U<sub>3</sub>O<sub>8</sub>) and Zone 3 (2,101,000 t @ 0.014% U<sub>3</sub>O<sub>8</sub>), Canadian Johns-Manville's Zone 1 (483,000 t @ 0.042% U<sub>3</sub>O<sub>8</sub>), and Mont Laurier Uranium Mines' Tom Dick (1,388,000 t @ 0.037% U<sub>3</sub>O<sub>8</sub>) and Tom Dick North Zone (330,600 t @ 0.027% U<sub>3</sub>O<sub>8</sub>) (figure 3). These tonnages were estimated before and are not in compliance with NI 43-101 norms.

Strateco's land holdings overlap ground previously held by Mont Laurier Uranium Mines. The company held three contiguous claim groups, forming a large north-south elongated block, named Leman, Tom Dick, and Central, and a fourth block further to the south named Hanson Lake (GM 29783). The first claims were staked in 1969. The Tom Dick and Central groups of claims encompassed the present north half of Strateco's land holdings and the Hanson Lake group covered a good portion of the south half. Mont Laurier Uranium Mines land holdings were explored from 1969 to 1982, mostly under a joint venture with SOQUEM and briefly with Pancontinental Mining Ltd. in 1976-78. SOQUEM, which had earned 100% interest in the land holdings in 1981 dropped the claims in 1986.

One hundred and fifteen (115) diamond drill holes, for a total of approximately 6,500 metres, were completed on the Mont Laurier Uranium Mines land holdings by the joint venture. A good portion of the exploration, including 102 drill holes, was directed to the evaluation of the Tom Dick and Tom Dick North Zones, lying immediately north of Strateco's land holdings. Two (2) additional holes were completed along northwest extent of the uraniumiferous horizons. Ground radiometric surveying, detailed mapping and sampling was conducted by SOQUEM in 1981 along the southern extension of the horizons onto Strateco's present grounds (GM 38421).

Further to the south, the Central block has seen very little exploration despite the fact that numerous airborne radiometric anomalies were recorded over the grounds (GM 29985). Two short holes were drilled in the southeast corner of the block, outside of Strateco's claim boundary.

An horizon estimated to contain 544,000 tons grading 0.075% U<sub>3</sub>O<sub>8</sub> was outlined on the Hanson Lake group. The zone lies within the south-central portion of Strateco's land holdings. Seven holes were completed over the area by Mont Laurier Uranium Mines and SOQUEM. River Mountain Resources held two small claim blocks adjoining to the south the Lake Hanson group that partially overlapped the southern end of Strateco's land holdings (GM 33482 and GM 33483). No work is reported over these claims.

Previous exploration completed by the Mont-Laurier Uranium Mines-SOQUEM-Pancontinental Mining joint venture over Strateco's ground is summarized in Table 1.

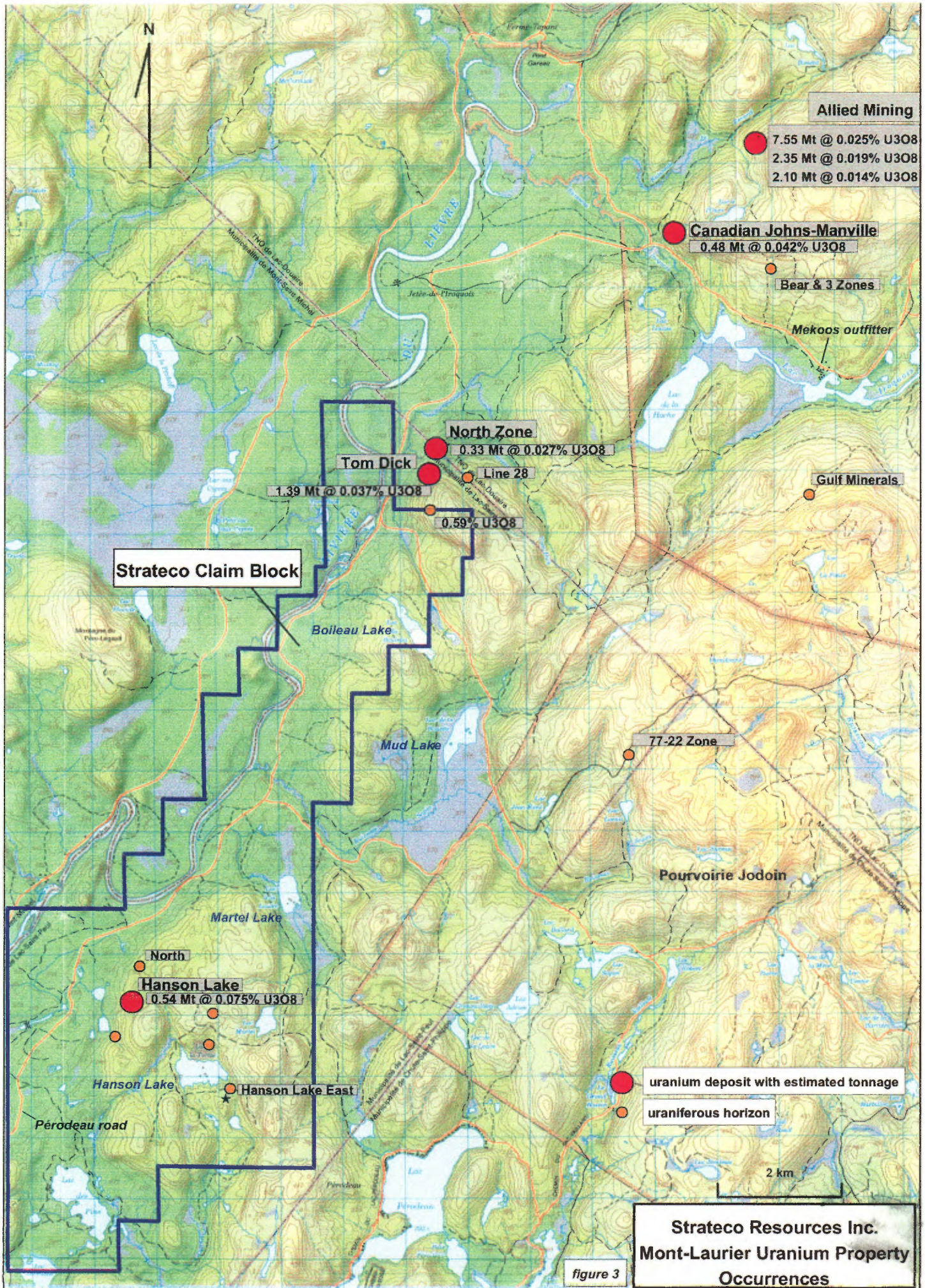


figure 3

Table 1

Previous Exploration Work  
Mont-Laurier Uranium Mines – Soquem – Pancontinental Mining

Year	Company	Claim Group	Work	Reference(s)
1970	GSC		-airborne spectrometer survey	
1970	Mont-Laurier Uranium Mines	All	-airborne radiometric survey	GM 26772 GM 27012
1970-71	Mont-Laurier Uranium Mines	Tom Dick	-line-cutting -ground radiometric survey -geological mapping -stripping, trenching and bulk sampling -stream sediment sampling -drilling (9 ddh, 448.7 m, no. 1 to 8 and 10) -drilling (76 ddh, ~3,000 m, no. 9-71 to 84-71)	GM 27900 GM 28052 GM 28205  GM 26645 GM 27621
1970	Mont-Laurier Uranium Mines and MNRQ	Tom Dick	-bulk sampling and assaying	GM 26517
1971	Mont-Laurier Uranium Mines	Central	-recon traverses -drilling (2 ddh, 100.9 m, no. 85-71 and 86-71)	GM 27621 GM 28052 GM 28205 GM 29985
1971	Mont-Laurier Uranium Mines	Hanson Lake	-line cutting -ground radiometric survey -soil sampling survey -geological mapping -blasting, trenching, stripping and sampling -drilling (5 ddh, 306.9 m, no. 87-71 to 91-71)	GM 27620 GM 27900  GM 27621
1972	Mont-Laurier Uranium Mines	Tom Dick (North Zone)	-ground radiometric survey -geological mapping -stripping, trenching and sampling	GM 28215
1973	SOQUEM	Tom Dick (North Zone)	-drilling (11 ddh, 1,278.0 m, no. 707-01-73 to 707-11-73)	GM 29783
1973	SOQUEM	Hanson Lake	-drilling (2 ddh, 228.6 m, no. 707-12-73 and 707-13-73)	GM 29783
1973-74	Mont-Laurier Uranium Mines	Tom Dick	-radiometric prospecting -stripping -drilling (2 ddh, 286.5 m, no. 11-74 and 12-74)	GM 29508 Soquem memos 7-1-1974 22-10-1974
1974	SOQUEM	Tom Dick (North Zone)	petrography of ddh 707-11-73	GM 29984
1976-77	GSC		airborne spectrometer survey	
1976	Pancontinental Mining	Tom Dick (North Zone)	-line cutting -surveying of drill holes -re-logging of drill holes, cross-section drafting -recon radiometric prospecting	GM 32737
1977-78	Pancontinental Mining	Hanson Lake	-line cutting -geological mapping -ground radiometric survey -rock sampling -radon survey	GM 33021  GM 33782
1981	SOQUEM	Tom Dick (North Zone)	-drilling (6 ddh, 564.0 m, no. 707-81-13 to 707-81-18)	GM 37982
1981	SOQUEM	Tom Dick	-ground radiometric survey -detailed geological mapping -sampling of radioactive zones -structural study	GM 38421
1982	SOQUEM	?	-drilling (2 ddh, 153.0 m)	Not submit.

## Geology and Uranium Mineralisation

The east side Strateco's land holdings straddles a north-northeasterly trending dissected ridge mantled by Proterozoic-age paragneisses, assigned to the La Force Formation of the Grenville Group, and underlying Archean-age granitic gneisses, forming the regional basement complex (Kish, 1976). The Proterozoic paragneisses are regarded as a metamorphosed sequence of clastic and chemical sediments. The metamorphic rocks are intruded by late- to post-orogenic pink pegmatites and associated granites. Three phases of ductile deformation (D1, D2 and D3) were recognized by structural mapping by SOQUEM (GM 38421). The main regional phase, D2, is characterized by kilometric isoclinal to tight north-northeast to northeast trending folds, defining the regional topographic grain. Northwest trending open folds (D3) were superimposed on the D2 folds. Several major NW-SE cross-cutting faults offset the sequence into several major blocks. For the most part, Strateco's land holdings cover the west limb of a broad anticline with units and foliation having a general gentle dip of 10° to 35° to the northwest towards the Lièvre river. The west side of the claim block is covered by Pleistocene glacio-fluvial deposits of the Lièvre river plain, concealing the downdip extent of the prospective metasedimentary sequence.

A stratigraphic section of the area is given in Table 2 based on mapping by Kish in 1974-75, which extended north from Martel Lake (fig. 3), and by assessment reports by Kalwasser and McLean for Mont-Laurier Uranium Mines.

Table 2  
Stratigraphic Section

	Late to Post-Tectonic Intrusive Rocks	grey or white granite pink magnetite-bearing granite and pegmatite
PROTEROZOIC	Meta-Intrusive Rocks	feldspar porphyry hornblende-plagioclase gneiss meta-gabbro
	Grenville Group La Force Formation	rusty weathering gneiss sillimanite gneiss meta-arkose with biotite and hornblende gneisses interbeds white metamorphic pegmatite biotite paragneiss limestone, calc-silicate rocks, marble quartzite
ARCHEAN	Pre-Grenville Group Basement Complex	quartz-feldspar-biotite-hornblende (granitic) gneisses

combined from Kalwasser, 1971, McLean, 1973, and Kish, 1976

Uranium mineralisation occurs mainly as disseminated uraninite, uranothorite, and locally secondary uranium oxide (uranophane) within sections of white metamorphic pegmatite and intercalated biotite gneisses. The biotite gneisses consist of alternating beds of biotite and quartz-biotite and quartzite and impure feldspathic-biotitic quartzite. These sections probably represent

metamorphosed sandstones and argillites. The white pegmatitic rock is thought to be derived from partial melting of sandstone units. The main uranium occurrences are found in biotite-rich planes in quartzite and pegmatitic rock and may be highly radioactive within larger bodies where coarse biotite is present. Accessory pyrrhotite, molybdenite, chalcopyrite and beryl is also noted within pegmatitic horizons. Rusty patches in white pegmatite are often more uraniumiferous and contain molybdenite and pyrrhotite. Th/U ratios vary greatly possibly due to differential mobilization of the elements during metamorphism.

#### Tom Dick area

(references : GM 27621, GM 28052, GM 28205, GM 28215, GM 29783, GM 29985, GM 32737, GM 37982, GM 38421)

The Tom Dick area covers a wedge shape block between two NW-SE cross-faults immediately north of Strateco's land holdings. The main structural feature over the area is a large northeasterly trending anticline. Three main occurrences have been outlined; the Tom Dick, the Tom Dick North Zone and the Line 28 Zone.

The Tom Dick showing is located on the northwest flank of a high hill at the crest of the anticline. The geology has been complicated by northwest trending cross-folds plunging parallel to the slope of the hill. The zone consists of three thick radioactive pegmatitic bodies within quartzite. U3O8 values are associated with biotite. The zone was trenched and drill tested by 83 holes over a 600-metre by 300-metre area by Mont Laurier Uranium Mines in 1970-71. The thickness of the pegmatitic rocks and U3O8 grades tend to increase at the crest of the cross-folds. A near-surface tonnage of 1,388,000 tons grading 0.037% U3O8 was estimated for the zone.

The Tom Dick North Zone is located 335 metres to the northwest of the Tom Dick showing. It is situated on the west limb of the anticline. Contrary to the Tom Dick showing, this area does not outcrop. Stripping in 1972 revealed several closely-spaced radioactive pegmatitic bands in impure quartzite over an estimated true width of 23 metres. The bands dip 30° to the west and were traced over a distance of 915 metres. The pegmatitic rock contains an appreciable amount of pyrite and pyrrhotite. SOQUEM drill tested the zone with 11 holes in 1973 and an additional 6 holes in 1981. The drilling indicated the presence of three relatively continuous uraniumiferous horizons over a drilled strike length of 300 metres. A possible tonnage of 300,000 tonnes (330,600 short tons) averaging 0.027% U3O8 was estimated by SOQUEM. Apparently the MNRQ made an error in the tonnage conversion as they report 270,000 tons.

The Line 28 showing, located 640 metres to the southeast of the North Zone, consists of a pegmatitic band within biotite gneiss striking north and dipping 30° to the west. A blasted trench returned values of 0.12% to 0.21% U3O8 over 0.6 to 1 metre. One hole was apparently drilled over the showing.

Following the drilling over the Tom Dick North Zone, the southern extent of the Tom Dick and Tom Dick North Zones were prospected by SOQUEM in 1981. The work extended up to 1 kilometre south of the Tom Dick and Line 28 Zones into the northern portion of Strateco's ground. The program consisted of ground radiometric surveying along the established 100-metre spaced grid, sampling of radioactive zones, and detailed geologic and structural mapping. Several radioactive white pegmatite zones were uncovered. A value of 0.59% U3O8 was obtained from one of the zones.

### Central area

(references : GM 28052, GM 29985)

Reconnaissance traverses in 1971 indicated that the area between Boileau and Martel lakes covers a broad fold axis extending south from the Tom Dick area. Several cross-faults are interpreted. Nine (9) radiometric targets were outlined over this segment by the 1970 airborne survey. A highly radioactive pegmatitic zone is known extending southwestward from Boileau Lake.

### Hanson Lake area

(references : GM 27620, GM 27900, GM 29985, GM 29783, GM 33021 GM 33782)

The southern half of the property, centred on Hanson lake, encompasses a broader section of exposed Proterozoic and Archean gneisses with alternate anticlinal and synclinal structures. Three areas of uraniferous pegmatitic horizons have been uncovered by past exploration within the Strateco's land holdings.

The most important showing occurs to the northwest of Hanson lake on the west flank of a hill. It consists of a 6-metre thick radioactive pegmatitic horizon dipping 20° to the northwest and lying at the contact between quartzite and limestone. The horizon was traced over 365 metres along strike by 12 trenches. An average grade of 0.047% U3O8 was calculated from the trenches. Two (2) diamond drill holes (707-12-73 and 707-13-73) completed by SOQUEM in 1973 tested the prospect. Hole 707-12-73 returned an intersection grading 0.024% U3O8 over 7.6 metres. The mineralized horizon was not intersected in hole 707-13-73 located 60 metres to the west of hole 707-12-73. An estimated tonnage of 544,000 tons grading 0.075% U3O8 is reported by MNRQ citing The Northern Miner (16-3-1972, p.18) as the source of the information. Another pegmatitic horizon was exposed upslope in calc-silicates and marbles. Channel samples across this zone averaged 0.077% U3O8 over 2.7 metres.

To the northeast, stripping uncovered several horizons of radioactive pegmatitic rock within quartzite. The horizons dip 25° to the northwest and were traced over 300 metres along strike (North showing). Grab sample of one blasted trench returned values of 0.017% to 0.08% U3O8. Five (5) short diamond drill holes (87-71 to 91-71) were completed in the vicinity of the North showing in 1971. Hole 91-71, located 115 metres west of the surface showing, returned a cut of 0.034% U3O8 over 0.6 metre.

The second area is located north of Hanson lake, apparently on the opposite east limb of the anticline. Stripping and trenching exposed a radioactive pegmatitic horizon 245 metres north of the lake. The horizon occurs in contact with marbles and biotite gneiss, dips 10° to 15° to the northeast, and was traced over a strike length of 120 metres. Values in excess of 0.05% U3O8 were obtained from this horizon. A second radioactive pegmatitic zone occurs to the north and was traced to the southeast over strike for 215 metres. No values are reported for this zone.

Stripping exposed a radioactive zone just southeast of Hanson lake (Hanson Lake East), which was traced over a strike of 400 metres. The zone strikes northwest and dips 15° to 20° to the northeast. Values in the order of 0.05% U3O8 were obtained from this horizon.

## Discussion

Although the Mont-Laurier district is classified under deposits of the pegmatite-type it bears a similar geological setting with the rich Athabaska Basin deposits of Saskatchewan. Both are found along a major unconformity between deformed basement and an overlying Proterozoic-age sedimentary basin. In the Mont-Laurier district, the 100-metre basal section of the La Force Formation paragneiss sequence is known to host numerous uraniumiferous horizons. The pegmatitic nature of these horizons is attributed to have resulted from anatexis of sandstone units during high grade metamorphism. Past exploration has focussed on select near-surface shallow-dipping radioactive horizons initially outlined by airborne spectrometer surveys. The discontinuous and patchy nature of the radioactivity have discouraged prolonged intensive drilling over the area.

Widespread radioactivity across the paragneiss sequence indicates the potential for significant tonnages of low grade material. Widely varying Th/U ratios suggest that uranium was mobilized during metamorphism indicating the possibility of higher grade concentration localized at structural traps. D3 folds documented at Tom Dick is an example. The main occurrences over the district, including the Allied Mining, Canadian Johns-Manville, Tom Dick and Tom Dick North, and Hanson Lake zones are exposed on the west flank of dissected ridge, apparently along the crest and west limb of a broad north-northeast trending anticline. The down-dip west extent of the favourable stratigraphy has not been tested under the glacio-fluvial coverage of the Lièvre river plain, notably along a likely alternate synclinal axis.

Molybdenite is observed in uraniumiferous pegmatitic horizons and could represent a by-product which could enhance the economic valuation of the ore. Selected samples returned assays of 1,120 and 1,280 ppm Mo (GM 38421). As well, the Quebec Ministry of Natural Resources report MB-94-17 has classified the Mont-Laurier area of high potential for rare earth elements (REE). U-Th-REE deposits are fast becoming of interest due partly by the steadily rising demand as new applications for REE are being developed. The REE potential has not been evaluated.

Most of the Stratco's ground remains under-explored. Many radiometric anomalies from past airborne surveys have seen limited ground follow-up due to the fact that the initial prospecting returned low uranium values.

## Recommendations

A similar exploration approach than used during the 1970's is recommended as an initial evaluation of Strateco's land holdings. Ground follow-up of airborne radiometric anomalies led to the discovery of numerous occurrences. The precision of the instruments have improved since that time and new geochemical tools are now available to us in order to explore over cover. A two-phase exploration program is recommended for the property

### Phase 1

- 1) A 100-metre line spacing airborne spectrometer survey flown in an E-W direction covering a 16 km by 7 km block centred over the property, for a total of 1,250 line kilometres.
- 2) GIS-based geological compilation from MNRQ assessment files of the land holdings and immediate surroundings. The compilation should include the integration of drill hole data into digital format (logs, assays, etc.).

- 3) Evaluation of airborne anomalies factored with the results of the geological compilation. Selection of targets for ground follow-up, notably those within the 8-kilometre under-explored gap in the central portion of the property between the Tom Dick and the Hanson Lake areas.
- 4) Ground follow-up of selected targets
  - line-cutting
  - ground scintillometre survey
  - soil geochemical survey
  - stripping trenching, blasting, and sampling
  - mapping
- 5) Integration of new data into the geologic compilation. Interpretation with emphasis on stratigraphic correlation, radioactive occurrences and structural controls. Generation of exploration concepts and targets for drill testing.

#### Phase 2

Ten (10) widely-spaced diamond drill holes, for a total of 2,500 metres, testing stratigraphic and structural concepts.


#### Costs

##### Phase 1 :

Airborne Spectrometre Survey	\$58,000
GIS-based compilation and interpretation	\$22,000
Ground follow-up program	<u>\$80,000</u>
Total	\$160,000

##### Phase 2 :

2,500 m @ \$100 / m all inclusive	\$250,000
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 O.G. # 584

## References

**Hébert, Y.**, 1995. Les gîtes de terres rares et éléments associés dans les districts miniers de Montréal-Laurentides, Estrie-Laurentides et Côte-Nord - Nouveau Québec. Ministère des Ressources Naturelles, Québec, MB 94-17, 140 p.

**Kish, L.**, 1976. Patibre (Axe) Lake Area., Laurentides-Labelle electoral district. Ministère des Richesses Naturelles, Québec, DPV-487, 15 p., 1 plan.

## List of MNRQ Assessment Reports

GM 26517  
GM 26644  
GM 26645  
GM 26645  
GM 26722  
GM 27012  
GM 27620  
GM 27621  
GM 27900  
GM 28052  
GM 28205  
GM 28215  
GM 29508  
GM 29783  
GM 29984  
GM 29985  
GM 32060  
GM 32737  
GM 33021  
GM 33482  
GM 33782  
GM 37691  
GM 37982  
GM 38421

**APPENDIX I**

**Claim List**

## Mont-Laurier Uranium Property

### Claim List

Claim #	Row	Column	Township(s)	Hectares	Expiration Date
0047436	3	32	Péroudeau	58.92	5-12-2006
0047437	3	33	Péroudeau	58.92	5-12-2006
0047438	3	34	Péroudeau	58.92	5-12-2006
0047439	3	35	Péroudeau	58.92	5-12-2006
0047440	3	36	Péroudeau	58.92	5-12-2006
0047441	3	37	Péroudeau	58.92	5-12-2006
0047442	3	38	Péroudeau	58.92	5-12-2006
0047443	3	39	Péroudeau	58.92	5-12-2006
0047444	4	32	Péroudeau	58.91	5-12-2006
0047445	4	33	Péroudeau	58.91	5-12-2006
0047446	4	34	Péroudeau	58.91	5-12-2006
0047447	4	35	Péroudeau	58.91	5-12-2006
0047448	4	36	Péroudeau	58.91	5-12-2006
0047449	4	37	Péroudeau	58.91	5-12-2006
0047450	4	38	Péroudeau	58.91	5-12-2006
0047451	4	39	Péroudeau	58.91	5-12-2006
0047452	5	32	Péroudeau	58.90	5-12-2006
0047453	5	33	Péroudeau	58.90	5-12-2006
0047454	5	34	Péroudeau	58.90	5-12-2006
0047455	5	35	Péroudeau	58.90	5-12-2006
0047456	5	36	Péroudeau	59.15	5-12-2006
0047457	5	37	Péroudeau	58.90	5-12-2006
0047458	5	38	Péroudeau	58.90	5-12-2006
0047459	5	39	Péroudeau	58.90	5-12-2006
0047460	6	32	Péroudeau	58.89	5-12-2006
0047461	6	33	Péroudeau	58.89	5-12-2006
0047462	6	34	Péroudeau	58.89	5-12-2006
0047463	6	35	Péroudeau	58.89	5-12-2006
0047464	6	36	Péroudeau	58.89	5-12-2006
0047465	6	37	Péroudeau	58.89	5-12-2006
0047466	6	38	Péroudeau	58.89	5-12-2006
0047467	6	39	Péroudeau	58.89	5-12-2006
0047468	7	32	Péroudeau, Décarie	58.88	5-12-2006
0047469	7	33	Péroudeau	58.88	5-12-2006
0047470	7	34	Péroudeau	58.88	5-12-2006
0047471	7	35	Péroudeau	58.88	5-12-2006
0047472	7	36	Péroudeau	58.88	5-12-2006
0047473	7	37	Péroudeau	58.88	5-12-2006
0047474	7	38	Péroudeau	58.88	5-12-2006
0047475	7	39	Péroudeau	58.88	5-12-2006
0047508	1	32	Péroudeau	58.94	8-12-2006
0047509	1	33	Péroudeau	58.94	8-12-2006
0047510	1	34	Péroudeau	58.94	8-12-2006
0047511	2	32	Péroudeau	58.93	8-12-2006
0047512	2	33	Péroudeau	58.93	8-12-2006
0047513	2	34	Péroudeau	58.93	8-12-2006

Claim #	Row	Column	Township(s)	Hectares	Expiration Date
0047514	2	35	Pérodeau	58.93	8-12-2006
0047515	8	35	Pérodeau, Décarie	58.87	8-12-2006
0047516	8	36	Pérodeau, Décarie	58.87	8-12-2006
0047517	8	37	Pérodeau	58.87	8-12-2006
0047518	8	38	Pérodeau	58.87	8-12-2006
0047519	8	39	Pérodeau	58.87	8-12-2006
0047520	9	36	Pérodeau, Décarie	58.86	8-12-2006
0047521	9	37	Pérodeau, Décarie	58.86	8-12-2006
0047522	9	38	Pérodeau	58.86	8-12-2006
0047523	9	39	Pérodeau	58.86	8-12-2006
0047524	10	37	Pérodeau, Décarie	58.86	8-12-2006
0047525	10	38	Pérodeau, Décarie	58.86	8-12-2006
0047526	10	39	Pérodeau	58.86	8-12-2006
0047527	10	40	Pérodeau	58.86	8-12-2006
0047528	11	37	Pérodeau, Décarie	58.85	8-12-2006
0047529	11	38	Pérodeau, Décarie	58.85	8-12-2006
0047530	11	39	Pérodeau, Décarie	58.85	8-12-2006
0047531	11	40	Pérodeau	58.85	8-12-2006
0047532	12	38	Pérodeau, Décarie	58.84	8-12-2006
0047533	12	39	Pérodeau	58.84	8-12-2006
0047534	12	40	Pérodeau	58.84	8-12-2006
0047535	12	41	Pérodeau	58.84	8-12-2006
0047536	13	39	Pérodeau, Décarie	58.83	8-12-2006
0047537	13	40	Pérodeau, Décarie	58.83	8-12-2006
0047538	13	41	Pérodeau	58.83	8-12-2006
0047539	13	42	Pérodeau	58.83	8-12-2006
0047540	14	40	Pérodeau, Décarie	58.82	8-12-2006
0047541	14	41	Pérodeau, Décarie	58.82	8-12-2006
0047542	14	42	Pérodeau	58.82	8-12-2006
0047543	14	43	Pérodeau	58.82	8-12-2006
0047544	15	40	Pérodeau, Décarie	58.81	8-12-2006
0047545	15	41	Pérodeau, Décarie	58.81	8-12-2006
0047546	16	40	Pérodeau, Décarie	58.80	8-12-2006
0047547	16	41	Pér., Décarie, Leman	58.80	8-12-2006

**Total** **4,710.60**