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SUMMARY REPORT

on

ALLERSTON-SHAW PROPERTY

SHAW TOWNSHIP, ONTARIO

for

PETROMET RESOURCES LIMITED

RECEIVED

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MINING LANDS SECTION

Toronto, Ontario, June, 1983. W.E. Brereton, P.Eng.





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1.0 INTRODUCTION

Interest in the four Allerston claims centres around the presence of a talc-magnesite zone in an ultramafic body in the southeast portion of the property.

The claims were examined by MPH Consulting Limited in early June, 1983. This report presents a summary of the field investigations.

2.0 PROPERTY

The four unpatented mining claims are numbered 624691 to 624694 inclusive. They are registered in the name of Mr. R.E. Allerston, Timmins, Ontario, and are presently under option to Petromet Resources Limited of Calgary, Alberta. The claims are on a six month extension to June 17, 1983.

3.0 LOCATION, ACCESS AND INFRASTRUCTURE

The property is centred 4 miles south-southeast of South Porcupine, a town of 5,000 population in northeastern Ontario. The larger centre of Timmins is located 5 miles west of South Porcupine.

The Langmuir Mine road, or, as it is known locally, the "Springs Road", passes one half claim to the east of the property. Old roads lead off this to the northwest and southeast portions of the group thereby providing easy access to the claims.

A large timber operations area extends from the Springs Road onto claim 624691.

Manpower and materials are available from surrounding centres of service and supply such as Timmins. The Ontario Northland Railway line passes through South Porcupine.

4.0 REGIONAL GEOLOGY AND MINERAL OCCURRENCES

In a regional context, the Allerston claims occur in the north portion of the Shaw Dome. This imperfectly understood feature is the main structural element south of the Porcupine-Destor Fault in the Porcupine gold camp.

The older of the two rock groups currently recognized in the camp, the Deloro Group, forms the outcrop in the Shaw Domal Structure.

Rocks of the Deloro Group are primarily of calc-alkaline affinity. They comprise mainly andesite and basalt flows in the lower part with dacitic to rhyolitic flows and pyroclastics, often with abundant iron formation towards the top. Large, generally silllike, bodies of ultramafic rocks intrude Deloro Group metavolcanics along with minor granitic rocks and some later crosscutting diabase dikes.

There are two well-known magnesite + talc occurrences in the Shaw Dome, the Allerston-Whitney and the Canadian Magnesite deposits.

The former is a major talc-magnesite deposit in carbonatized ultramafic rocks intrusive into the Deloro Group located approximately 3 miles to the north of the present occurrence in southwest

Whitney Township. This is owned by Mr. Allerston and is also under option to Petromet. The mineralization occurs in two zones, "North" and "South", with total reported tonnage in excess of 30 million tons of talc-magnesite rock. There is potential for substantially more tonnage (R. Allerston, pers. comm.).

The Canadian Magnesite deposit of magnesitic rock is located in south Deloro Township to the southwest of the present property. Extensive quartz veining is reported to be a problem in the production of a magnesia product. The deposit again represents a carbonatized zone in ultramafic intrusive rocks.

5.0 PROPERTY GEOLOGY AND MINERAL OCCURRENCES

The Allerston-Shaw property is largely swamp-covered. Extensive traversing located only three outcrop areas, these in the central portion of the group.

Map 1, at rear, presents property geology.

5.1 Magnesite Zone

A magnesite zone is exposed in the northwest portion of claim 624691 (rock type 2). This material consists almost entirely of beige to greenish or greyish carbonate rock. A dirty brownish weathering surface and a brownish to reddish weathering rind to $\frac{1}{2}$ " is characteristic. A finely crystalline aspect is evident on a fresh surface. There is no reaction with weak HCl. The carbonate is accepted to be mainly magnesite (with some siderite ?) on the basis of physical properties although analytical or staining tests or thin section studies were not carried out by the present author.

In the blasted pit on the south outcrop, a laminated texture is evident with lesser bluish-black carbonate laminae to $\frac{1}{4}$ " within beige carbonate material. The outcroppings display stringers, ribbings and patches of light bluish-white weathering carbonate material which stands out in slight relief on the weathered surface. This ribbing defines an approximate east-west schistosity.

The small outcrop at the road contains 1% or more of a very finely disseminated, black mineral with a metallic/submetallic lustre - ilmenite?

There is no obvious talc in this portion of the zone. Also, these rocks are non-magnetic.

The outcroppings are cut by numerous quartz stringers, generally $\frac{1}{4}$ " to 1" in width. This is best displayed in the blasted pit area on the south outcrop.

5.2 Talc-Magnesite Zone

A talc-magnesite zone occurs along the south edge of serpentinite outcrop immediately to the north of the previous magnesite-quartz zone.

The first observation here is that there is a prominent, near-vertical schistosity in the talc-carbonate rock. There has been some shearing concomitant with and post talccarbonate development. The rock consists of translucent, light greenish talc laminae within beige weathering carbonate material. On a fresh surface, the magnesite is brownish to whitish coloured with a sugary aspect and predominates greatly over talc. The easternmost exposure appears to be richer in talc than that to the west. There is no obvious quartz. Results of two grab samples taken from this zone by Mr. Allerston are presented as Appendix 1 to this report. Both samples contained 50% talc mineral.

The progenitor of the talc-carbonate material is in contact with and to the north of the schistose talc-carbonate zones. This parent rock is a serpentinized dunite (rock type 1). It is a relatively massive lithology with abundant, close-packed relict olivine crystals to $\frac{1}{4}$ " or more. These may impart a knobby aspect to the weathered surface. An apple green colour on fresh surface is diagnostic. Weathered surfaces have a brownish colour. The rock is variably magnetic.

The serpentine is abundantly joint fractured. Fractures are filled with recessive-weathering talc-carbonate material along with cross and slip-fibre asbestos. The former is generally in the 1/8" to $\frac{1}{4}$ " range.



The serpentine is in contact to the north of the property with mafic metavolcanics including pillowed varieties (rock type 3) in a gravel pit.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Magnesite and talc-magnesite zones on the Allerston property in Shaw Township, Ontario, were located and examined.

Lack of outcrop precluded a rigorous evaluation of widths and possible tonnages involved. A schistose talc-bearing zone along the south edge of serpentinite outcrop can be seen in outcrop to be at least 30 ft. wide. Indicated talc grades on grab samples are in the 50% range. To the south of this occurs a silicified magnesite zone of unknown width.

As a first step in further evaluating the economic potential of the magnesite <u>+</u> talc zones, fresh bulk samples should be collected for analysis via a small programme of stripping and blasting. If these results are encouraging, a program of diamond drilling will be required to evaluate the deposit.

Respectfully_submitted,

W.E. Brereton, P.Eng.

Toronto, Ontario, June, 1983. APPENDIX 1

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DETERMINATION OF TALC AND MAGNESITE CONTENT

Method: Our estimate of the talc and magnesite content was made from a mineralogical examination, x-ray diffactometry, and a partial elemental analysis.

ineralogy

The following table contains minerals, with estimated amounts present, found in your samples by hand specimen examination, chemical analysis, and x-ray diffractometry.

Mineral	<u>S-1</u>	<u>S-2</u>
Talc- (Minnesotaite)	5,0 %	50 %
Magnesite	42	42
Siderite	5	5
Chlorite	2	2
Calcite	l	l

S-l is light beige (unweathered) in colour. The grain size is very fine and the rock is soft and powdery. S-2 is a mottled grey and greenish colour. It is fine grained, soft and powdery.

C-1

<u>s-2</u> 31.7 4.80 0.50 0.35 37.0 1.12 22.8

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Elemental Analysis

	<u> </u>
Si02	32.0
Fe ₂ 03 (total)	5.60
A1203	0.50
CaŪ	0.35
MeO	36.6
*H ₂ 0 (total)	1.07
C02	23.0
L.O.I.	25.07

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MPH Consulting Limited	120 Adelaide St. W. Suite 2406 Toronto, Canada M5H 1W5 (416) 365-0930 Telex 06-219626
November 14, 1983	RECEIVED Land Management Branch CIRCULATE
	L. F. ANDERSON
Mr. E.F. Anderson	J. C. Stell of
Director	W. L. GOOD
Land Management Branch Whitney Block, Room 6610 Queen's Park Toronto, Ontario	J. 14. C.F. (1)
M7A 1W3	RAN 4 10 R. 6643

Dear Sir:

Re: Enclosed Notification

Please note that the indicated geological traverse lines are representations only. The actual traversing carried out was much more meandering and circuitous in an attempt to locate additional outcrop on the property.

Also, I have recalculated 12 hour days to 8 hour days for the time involved in the actual field work.

Yours very truly,

MPH CONSULTING LIMITED /

W.E. Brereton, P.Eng. Vice President

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MINING LANDS SECTION

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TOTAL 8 HOUR LINE-CUTTING DAYS

October 5, 1983

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Mr. R.E. Allerston 543 Pine Street North, Timmins, Ontario P4N 6L9

Dear Sir:

RE: Geological Survey submitted on mining claims P 624691 et al in the Township of Shaw

The manner in which you conducted a geological survey of mining claims P 624691 et al does not qualify for work credits under the Special Provisions method. In order to qualify, the claims should have been systematically covered with the line spacing not exceeding 400 foot intervals.

Please therefore, provide a man-days breakdown listing the n names and addresses of the employees and the dates that each man worked on the various phases of the survey. The survey will then be assessed under the provisions of sub-section (11) of Section 77 of The Mining Act R.S.O. 1980.

For further information, please contact Mr. F.W. Matthews at (416)965-1380.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room **60**10 Queen's Park Toronto, Ontario M7A 1W3 Phone:(416)965-1380

D. Kinvig:mc

Encl.

cc: W.E. Brereton MPH Consulting 141 Adelaide Street West Toronto, Ontario M5H 3L5

cc: Mining Recorder Timmins, Ontario August 29, 1983

Mr. R.E. Allerston 543 Pine Street North Timmins, Ontario P4N 6L9

Dear Sirs:

RE: Geological Survey submitted on Mining Claims P 624691 et al in the Township of Shaw

Enclosed are the plans, in duplicate, for the above-mentioned survey. Please indicate the traverse lines and return the maps to this office.

For further information, please contact Mr. F.W. Matthews at (416)965-1380.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

D. Kinvig:mc

Enc1.

cc: Mining Recorder Timmins, Ontario 2.5660



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Geotechnical Report Approval

July 8/83.

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Mr. William L. Good Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Brovisions (credit for Performande and Coverage on Mining Claims P624691 et al in the Township of Shaw.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: (**4**16) 965-1380

A. Barr:mc

- cc: Mr. R.E. Allerston 543 Pine Street North Timmins, Ontario P4N 6L9
- cc: Mr. W.E. Brereton Suite 706 141 Adelaide Street West Toronto, Ontario M5H 3L5

MAP SYMBOLOGY

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