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C.F. Millar, P. Eng.

INTRODUCTION:

The following report deals with a number of claims which adjoin the Kutcho Creek property of Cassiar Asbestos Corporation in Northern B.C.

A works program was undertaken on these claims during August and September 1966, financed by Material Trucking Co. Ltd. (Box 4183, Station 'D', Vancouver); and done with the view to doing the necessary assessment work as well as furnish useful geological information. This program was under the direction of the writer and involved bulldozer rentals from Watson Lake Construction Limited and field mapping by C. Z. Miller and G. Lee.

The geological mapping was accomplished by checking each large outcrop area as to rock type, then plotting their boundaries with the aid of photographs. Cassiar Asbestos kindly made some of their geological information available for inspection as well.

SUMMARY:

The general location of the claims places them in a fairly remote area of Northern B.C., being 121 miles south of Watson Lake, Yukon, and 208 miles east of Juneau, Alaska. Access is normally by charter plane from Watson Lake, or by bulldozer trail from the Stewart-Cassiar road at Dease Lake.

The topography is at fairly high altitudes and climatic conditions severe. Cassiar Asbestos operate a tent camp several miles via 4 x 4 road from Letain Lake, and the working season is restricted to June - September.

The rock types in the area are Paleozoic sediments intruded with ultramafic stocks and sills. Extensive serpentinization of the ultramafics, coupled with the necessary re-crystallization in fracture zones, has produced quantities of chrysotile asbestos. The quality of the fibre is good and the lengths are said to be medium between the Cassiar and Dawson City averages.

All of the rock types general to the area are exposed on the 'B' and 'H' claims, however, the portion of the claims area believed to be underlain by serpentine, with or without fibre zones, is believed to be fairly small. Small amounts of fibre were turned up on the B15, B10 and B29 claims.

BEYER LAKE MINERAL CLAIMS - LIARD MINING DIVISION

| <u>Name</u> | <u>Record No.</u> | <u>Record Date.</u> | <u>Grouping</u> | <u>Name</u> | <u>Record No.</u> | <u>Record Date.</u> | <u>Grouping</u> |
|-------------|-------------------|---------------------|-----------------|-------------|-------------------|---------------------|-----------------|
| B 05        | 19466             | Sept. 25/65         | Green.          | H 014       | 19495             | Sept. 25/65         | Red             |
| " 06        | 19467             | "                   | Brown.          | " 015       | 19496             | "                   | Green           |
| " 07        | 19468             | "                   | Green.          | " 016       | 19497             | "                   | "               |
| " 08        | 19469             | "                   | Brown.          | " 017       | 19498             | "                   | "               |
| " 09        | 19470             | "                   | "               | " 018       | 19499             | "                   | "               |
| " 010       | 19471             | "                   | "               | " 019       | 19500             | "                   | "               |
| " 011       | 19472             | "                   | Red             | " 020       | 19501             | "                   | "               |
| " 012       | 19473             | "                   | "               | " 021       | 19502             | "                   | "               |
| " 013       | 19474             | "                   | "               | " 022       | 19503             | "                   | "               |
| " 014       | 19475             | "                   | Green           | " 023       | 19504             | "                   | "               |
| " 015       | 19476             | "                   | Red             | " 024       | 19505             | "                   | "               |
| " 016       | 19477             | "                   | Green           | " 025       | 19506             | "                   | "               |
| " 017       | 19478             | "                   | Red             | " 026       | 19507             | "                   | "               |
| " 018       | 19479             | "                   | Green           | " 027       | 19508             | "                   | "               |
| " 019       | 19480             | "                   | Red             | " 028       | 19509             | "                   | "               |
| " 020       | 19481             | "                   | Green           | " 030       | 19510             | "                   | "               |
| N 01        | 19482             | "                   | Brown           | " 031       | 19511             | "                   | "               |
| " 02        | 19483             | "                   | Green           | " 032       | 19512             | "                   | "               |
| " 03        | 19484             | "                   | Brown           | " 033       | 19513             | "                   | "               |
| " 04        | 19485             | "                   | Green           | " 034       | 19514             | "                   | "               |
| " 05        | 19486             | "                   | Brown           | " 035       | 19515             | "                   | "               |
| " 06        | 19487             | "                   | Green           | " 036       | 19516             | "                   | "               |
| " 07        | 19488             | "                   | Brown           | " 037       | 19517             | "                   | "               |
| " 08        | 19489             | "                   | Red             | " 038       | 19518             | "                   | "               |
| " 09        | 19490             | "                   | Brown           | " 039       | 19519             | "                   | "               |
| " 010       | 19491             | "                   | Red             | " 040       | 19520             | "                   | "               |
| " 011       | 19492             | "                   | Brown           | " 041       | 19521             | "                   | "               |
| " 012       | 19493             | "                   | Red             |             |                   |                     |                 |
| " 013       | 19494             | "                   | Red             |             |                   |                     |                 |

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2/6

GEOLOGICAL DESCRIPTION:

Sedimentary rocks in the region consist of Upper Beronian argillite and limestone. Bodies of greenstone interlie these Paleozoic sediments. Intrusive peridotite, dunite and associated dioritic phases cut these earlier rocks. The peridotite has been extensively serpentized and small portions have undergone the combination of fracturing and recrystallization necessary to promote the formation of chrysotile asbestos fibres. The age of these ultramafic intrusives is believed to be lower Mississippian.

Although much of the claims area is above tree-line, rock outcrops are relatively rare due to coverings of glacial till in the valley bottoms, and/or layers of scree of talus on the valley sides. The outcrops are thus largely confined to the peaks and ridges on the B9-20 and N10-22 claims. Large areas of greenstone make up the upper portions of the high ridge and jagged peak on the N13-20 claims. Serpentized peridotite and dunite are extensively exposed along the top and flanks of the ridge on the B11-19 claims, also on the southeast flank of the ridge on the B14-18 claims. A bank of argillite, dipping steeply north, separates the serpentine on the B11-15 claims into an upper and a lower member. A dubious outcrop of argillite occurs on the road midway between the camp and Letain Lake, and a dubious outcrop of limestone occurs on the road about one claim length north of Letain Lake. A smallish body of limestone is exposed in a cliff just north of the B19 claim, and argillaceous limestone is exposed in small areas on the B5 and B2 claims.

Dunite bodies, distinguished by their tan-coloured weathered surfaces and/or sugary textures, occur as small irregular masses within the serpentines on the B13 and N10 claims. A fairly extensive diorite zone underlies the volcanics and is exposed in the bottom and headwall of the cirque on the B12 and 14 claims. A small irregular part of diorite also occurs within the serpentine near the claimpost at the S.E. corner of the Crown Grants.

The areas of economic interest are of course confined to the serpentine bodies. While fibrous material (fremolite actinolite, anthophyllite, amphibole) is fairly plentiful in these serpentines, chrysotile fibre is not. The main ore zone on the Crown Grants occupies only a small portion of the total serpentine area, and is presumably related to a zone of fracturing which may trend south easterly across the regional direction of the main serpentine body. (If this is true, the valuable zone may cross over onto the B8 or N10 claims.)

Small amounts of medium length fibre (about  $\frac{3}{16}$  -  $\frac{5}{16}$  inches long) have been found at three places on the 'B' and 'H' claims. While only one of these was in place (on the D13 claim) the others must have derived from sources near at hand. This conclusion is reached from the facts that no foreign rocks (erratics) can be seen in the areas where the float fibre was found, and that the loose rocks were obviously of the same composition as outcrops further up the slopes. While the lengths of the fibre compares favourably with that on Cassiar's Crown Grants, the percentage in the rock does not.

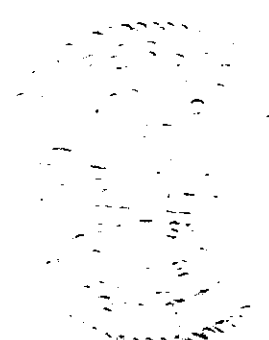
The value of the 'B' and 'H' claims lies in their proximity to the valuable Crown Granted claims owned by Cassiar Asbestos Corp. The main fibre zone on the Crown Grants may extend onto the 'B' and 'H' claims, and there are seemingly smaller areas on the 'B' claims which may constitute one if and when a mill is available in the general area. The outlook for eventual production from Cassiar's property is thought to be quite good, so that it is recommended that at least some of the 'B' and 'H' claims be maintained until such time that they can be combined to advantage with Cassiar's ownership.

Respectfully submitted,

*C. F. Miller*

C. F. Miller, P. Eng.

81  
200  
1900



STATEMENT OF COST.

Letain Lake - October 6th.

G. Leg.

|   |               |             |
|---|---------------|-------------|
| Wages .....   | \$ 620.00     |             |
| Expenses .....  | 5.00          |             |
| (field book etc.,)  |               |             |
| Paid on his behalf to Cassiar<br>Asbestos for board and room at<br>Letain Lake camp ..... | <u>405.00</u> | \$ 1,030.00 |

C. E. Miller.

|   |               |                           |
|---|---------------|---------------------------|
| Fees .....  | \$ 450.00     |                           |
| Expenses : -  |               |                           |
| Paid on his behalf to Cassiar<br>Asbestos for board and room at<br>Letain Lake camp ..... | <u>135.00</u> |                           |
| Fuel drums left on site .....   | <u>150.00</u> |                           |
| Misc. Draughting costs, phone<br>calls.....   | <u>87.30</u>  | \$ <u>822.30</u>          |
| <b>TOTAL .....</b>  |               | <b>\$ <u>1,852.30</u></b> |

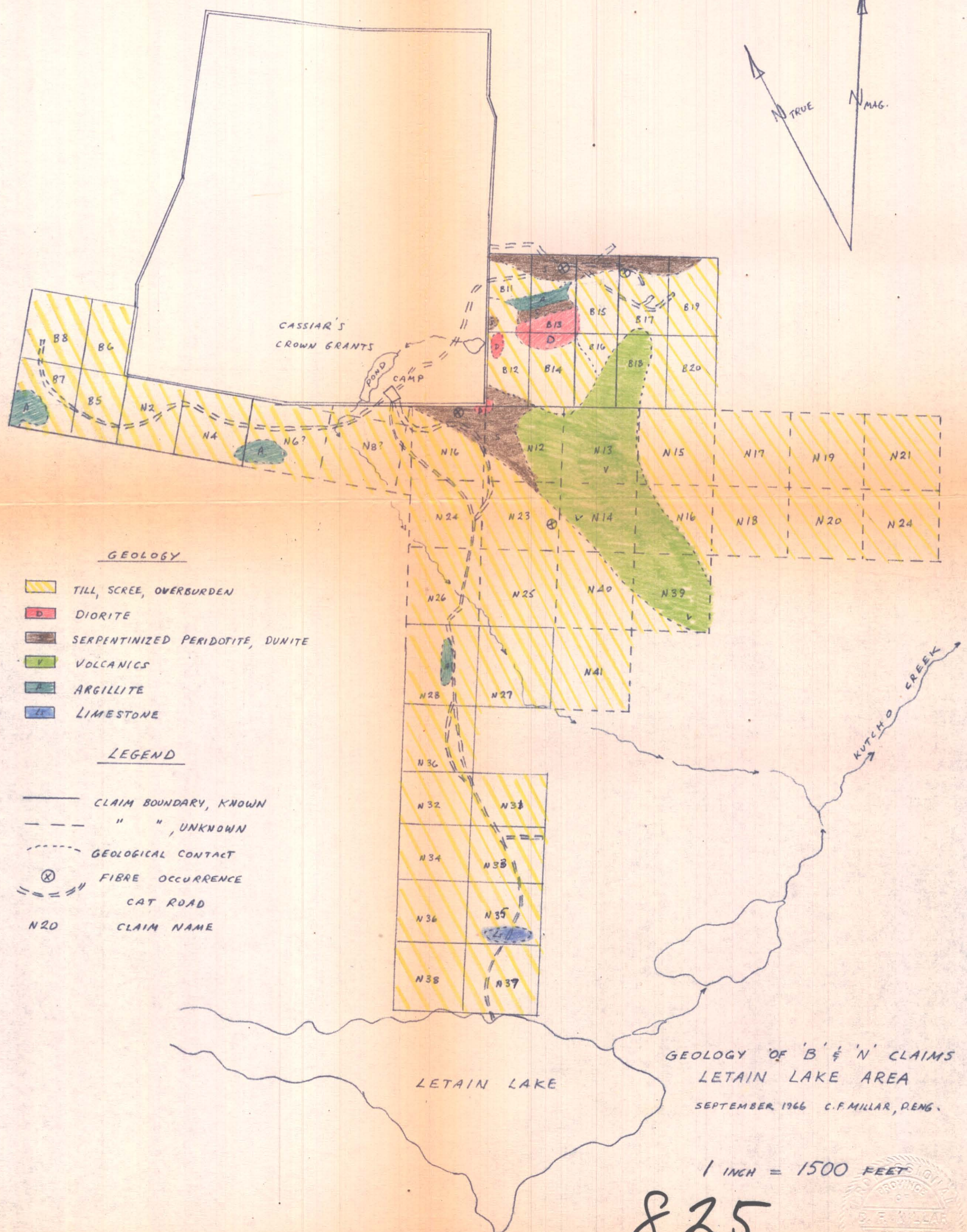
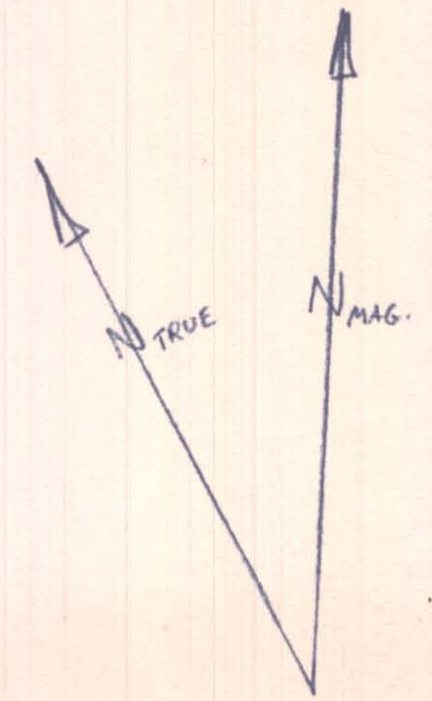
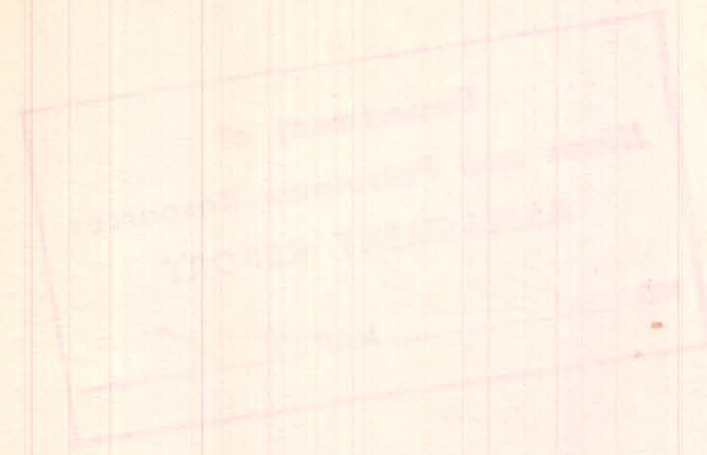
And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *26*  
day of *September*, 1966, A.D.







*C. E. Miller*

*S. Jenrotte*  
A Commissioner for taking Affidavits for British Columbia or  
A Notary Public in and for the Province of British Columbia.


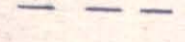
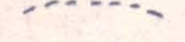
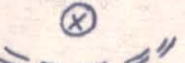

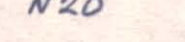
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GEOLOGY

-  TILL, SCREE, OVERBURDEN
-  DIORITE
-  SERPENTINIZED PERIDOTITE, DUNITE
-  VOLCANICS
-  ARGILLITE
-  LIMESTONE

LEGEND

-  CLAIM BOUNDARY, KNOWN
-  " " UNKNOWN
-  GEOLOGICAL CONTACT
-  FIBRE OCCURRENCE
-  CAT ROAD
-  CLAIM NAME

GEOLOGY OF 'B' & 'N' CLAIMS  
LETAIN LAKE AREA  
SEPTEMBER 1966 C.F. MILLAR, PENG.

1 INCH = 1500 FEET

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