A REPORT OF THE ACTIVITIES OF THE PROSPECTORS OF THE ARROW TIMBER CO. IN McCART TOWNSHIP, DISTRICT OF COCHRANE, ONTARIO.
THIS REPORT TO ACCOMPANY THE FILING OF WORK FOR ASSESSMENT WORK REQUIREMENTS.

PREAMBLE: The Arrow Timber Co. of Calstock, Ontario decided in 1950 to explore for mineral possibilities the lands it held in fee simple in the mining areas of North Eastern Ontario. A good deal of this territory represented cut over timber lands and old Vet. lots. These had hitherto not been explored by the owners with regard to their possible mining importance.

In the furtherance of this prospectors in the employ of the Company made an interesting find of Chrysotile asbestos in lot 7 of McCart township. The fibre looked to be of commercial importance and it was decided to thoroughly explore and develop the showing to see if it could be extended to mineable size. Since the land to the north and west was open it was staked.

LOCATION: The property lies in Concessions 5 and 6 and consists of the patented lots, north half of lots 6 and 7 and the claims T.30505 to 30513 and T.30492 to T.30496 inclusive. It lies three miles west of the main highway to Cochrane. It is reached by an excellent road running west along the boundary between the fourth and fifth concession. Agood bush road running north puts one on the property on lot 6. The railroad and power lines running north are adjacent to the main highway. The property is approximately 5 miles from the Porquis Airport.

GEOLOGY: A map embracing the geological conclusions arrived at accompanys this report. It is not submitted for credit on assessment work but as a matter of possible interest. The map encompasses the only outcrop areas on the property, which lie entirely on the patented lots.
The asbestos was first found in an outcropping of serpentine near the south line between lots 6 and 7. Weathering here has disengaged much of the surface rock and it is largely a jumbled mass. It was very evident however that the chrysotile veinlets were dipping very flatly at 10 to 15 degrees to the north east. North of this "broken ground" area a high ridge of volcanics consisting of numerous thin andesite flows striking 18 degrees north of west and dipping about 27 degrees occurs. The western boundary of these volcaics have every appearance on the air photos of being a fault sea scarp. To the north and west of the flat asbestos just described we found anadditional body of asbestos fibre running to one half to three quarters of an inch. This occupied an area about two hundred feet square and the

fibre veinlets were dipping at 80 degrees and striking east and west. Unlike the Johns- Manville deposit a very definite strike is evident here. The host rock was established as a dunite. As shown on the map the contact with the pyroxenite next to the lavas is quite sharp. So we had the two areas of asbestos deposition one dipping steeply and the other flat,with a swamp between them and a suggested fault zone. We were very conscious of the stuctural controlof the asbestos deposition evidenced by the faults at Johns- Manville in Munro township and thought it possible that a similar condition might prevail here. We came to the conclusion that the pridotites were sill like in form and cut or underlay the andesite remnant. This was pretty much born out by the results of later drilling. The geological survey was made by the writer using the same lines used in the magnetic survey done previously.

MAGNETICS: A magnetic survey of the swamp areas lying north and west of the outcrop was decided upon for two main resons.

1. To fill in the gap between the very excellent magnetometer surveys made by The Dominion Gulf Co. to the north and the Quebec Asbestos Corp. to the east and south of our property.
2. To see if we could find evidences of a contact in the swamp areas. The peridotites were encountered at the boundaries of all swamp areas.

The results of the work in the outlying areas,except for possible contacts in T30507 and T.30492,was disappointing and we decided to run the survey over the outcrop areas on the patented lots where we might get a marker. It will be noted from the contour map that some of the readings over the fibre area were very low. This led us to the conclusion that the sill was perhaps quite thin . It should be noted here that the occurence of magnetite is not the same as seen in the peridotites of Munro and McCool townships. There ridged magnetite in the selvidges of the jointing is very common and gives rise to high readings. In this M-McCart outcrop the polygonal jointing is very pronounced but little magnetite is in evidence except in blobs or scattered grains along the fibre contact. Dr. Merrill of Quebec Asbestos Corp. made a thin section of this fibre and reported to the writer that the usual small grains of magnetite to be found a long the threads of the fibre were lacking. Some magnetite was shown along the contact with the dunite. He was of the oppinion that the fibre was of premium grade.

The study over the outcrop area should severa l very sharp anomalies. As can be seen from the maps submitted these were so different from the swamp area readings that since no magnetite was in evidence, they

demanded special study. Lines were cut between the ones cut for the first survey and the results of the latter were completely checked. The check showed the same results. This anomaly was later drilled. Pyrrhotite was found in some of the surface rocks and the idea that this nickel bearing mineral might be at the bottom of the sill,below these high anomalies,was a persistent thought. If there had been any magmatic segregation there might be something below of promise. The drilling showed that the anomalies were due to heavy magnetite below the surface.

To prepare for the magnetic studies 19 miles of line were cut and 1087 stations established. A Sharpe A2 instrument was used with a scale constant of 20.6 gammas.

DRILLING: A total of 3812 feet of diamond drilling was done and the location of the holes is shown on the geological map. This drilling was all done on the patented lots and is not filed for assessment work. Since the core has been logged by Mr. Nelson Hogg ,Provincial Geologist, no core log is submitted here. The drilling showed the dunite to be asill underlying the andesite flows. It showed some evidence of faulting in the swamp between the two fibre areas. The fibre in the core would not run more than 1% and the largest fibre was one-half inch.

PERSONNEL: The work was done with the participation and under the supervision of the writer. The writer has a B.A. degree from the University of Michigan,three years study of geology at Michigan College of Mining,seven years field work and twelve years with the geology dept. of the Hollinger consolidated Gold Mines.

Mr. John Hall was in direct charge of the magnetometer studies and prepared the maps which I have had him sign. Mr. Hall has a B.Sc. and B.M. degrees from McGill. His experience has been gained with Noranda,Kerr Addison, Falconbridge and Hollinger.

CONSULTANTS: No work is filed for consultation although we had plenty. Dr. William Jones of the Hollinger aided us with the maps and interpretations. Also checking the instrument. We are deeply indebted to Mr Nelson Hogg of the Provincial staff for his kindly aid and assistance so cheerfully given.

I hereby certify that the foregoing is an accurat description of the property and the work.

Respectfully submitted

Signed Thomas C Truss.
Aurora Timber Co

4 Hart St.,
Timmins, Ont
August 4,1951

BREAKDOWN OF MAN DAYS WORKED ON SURVEY

Line Cutting, Chaining and Pickets

A. Rousseau	25 x 4	
L. Rousseau	44 x 4	
D. O'Shea (Chief Cutter)	44 x 4	
	113 X 4 -	452 ✓

Instrument Operators

J. Hall (Chief Operator)	44 x 4 -	176 ✓
T. Truss	44 x 4 -	176 ✓

Map Making & Draughting

J. Hall	22 x 4 -	88 ✓
		892 ✓

Survey conducted between I2 August and 25 November I950

4 ct
22 | 892
88 +
1 2

ARROW TIMBER COMPANY

MAGNETOMETER SURVEY

McCART TOWNSHIP

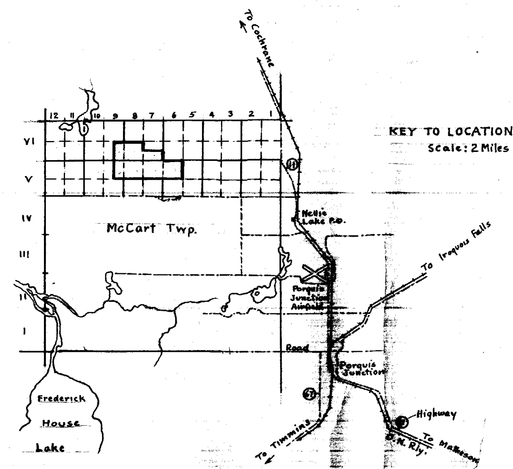
DISTRICT OF COCHRANE, ONTARIO

MAP SHOWING LINES OF EQUAL VERTICAL MAGNETIC INTENSITY

CONTOUR INTERVAL: 500 GAMMA

SCALE: 1 INCH TO 200 FEET

Magnetometer survey personally supervised by John Hall B.A., B.Eng.



CONCESSION VI

CONCESSION V

T30493 MRO

T30494 MRO

T30495 MRO

T30496 MRO

T30508 MRO

T30513 MRO

T30511 MRO

T30512 MRO

T30492 MRO

T30507 MRO

T30510 MRO

T30509 MRO

T30506 MRO

T30505 MRO

PATENTED

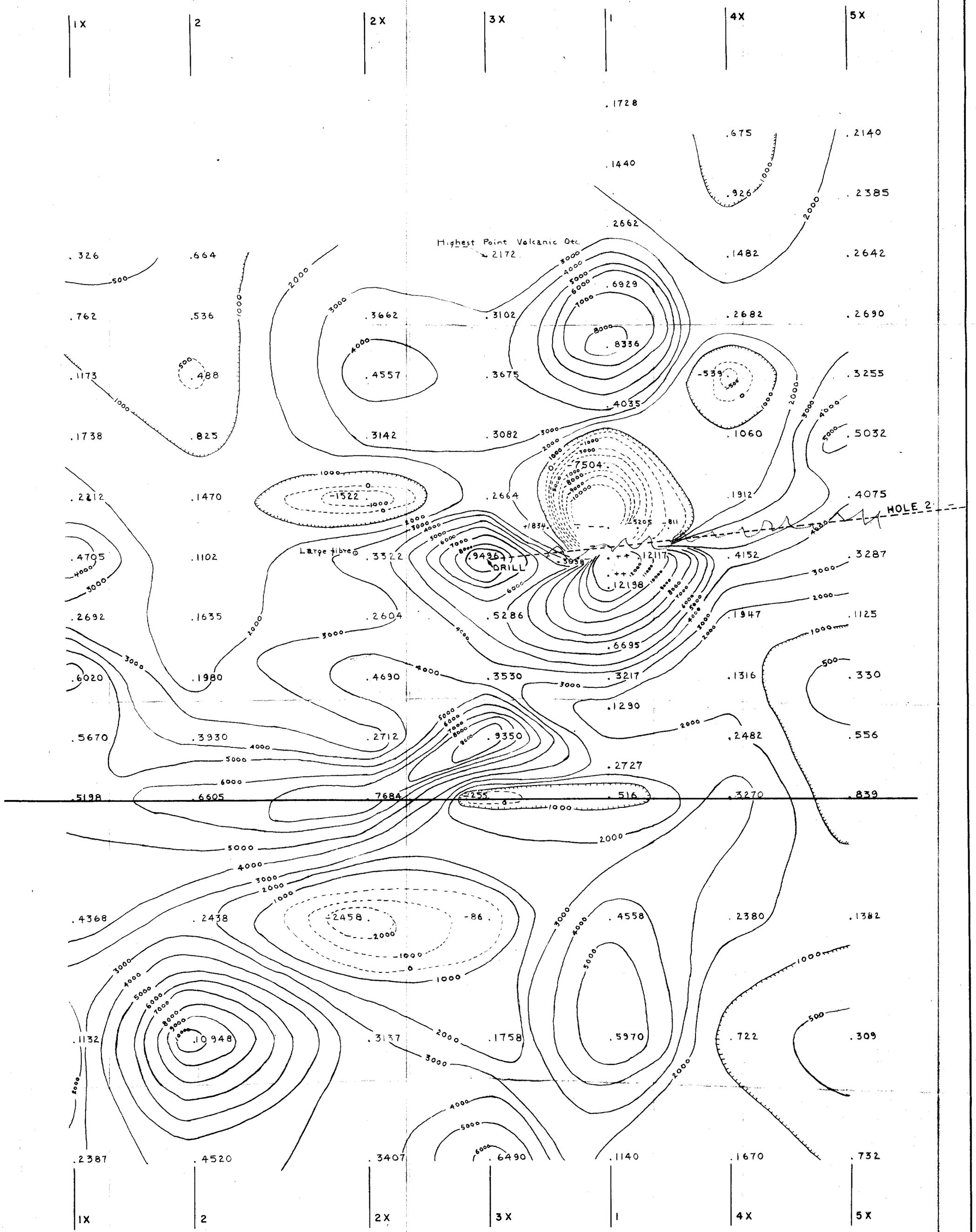
LOT 9

LOT 8

LOT 7

LOT 6

63-254



ARROW TIMBER COMPANY

McCART TOWNSHIP

DISTRICT OF COCHRANE. ONT.

DETAILED GEOLOGY OF NORTH HALF
LOTS 6 & 7. CONCESSION V

SCALE: 1 IN. = 200 FT.

NOV. 1950

LEGEND

LATE KEEWATIN (?)

Pd — SERPENTINIZED PERIDOTITE

Py — PYROXENITE

G — GABBRO

KEEWATIN

PL — ANDESITE Mass. And. Undifferentiated

SYMBOLS

OUTLINE OF OUTCROP

CONTACT. OBSERVED

CONTACT ASSUMED

30° PILLOW FACINGS. STRIKE AND DIP

20° STRIKE AND DIP OF FORMATION

POSSIBLE FAULT

PL PILLOW LAVA

Pd PERIDOTITE

Br BROWN WEATHERING

W WHITE DO.

G GABBROIC FLOWS

Mass MASSIVE. ANDESITE

Sph SPHERULITIC LAVA FLOWS

F FIBRE

GRAVEL PIT

ROAD

CON. V

Spruce

Alders

Swamp

Scrub

And.

Pit

CAMP

LOT 7

LOT 6

L9 L8 L7 L6 L5 L4 L3 L2 L1 LA LB LC LD LE LF

0 100' 200 300 400 500 600 700 800 900 1000 110 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700

S-4

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