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REPORT  
ON

ENDERBY KYANITE

=====  
December 1956

MINING DIVISION

J. J. McDougall

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ENGINEER

**LAKEFIELD RESEARCH LIMITED**LAKEFIELD  
ONTARIOCertificate of AnalysisReference No. 7036849March 18th, 1957From: St. Eugene Mining Corporation  
401 - 402 West Pender Street  
Vancouver, B.C.

Invoice No. 4075

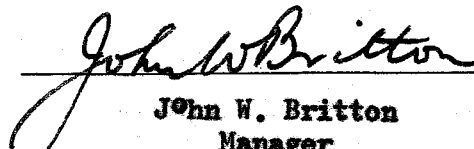
~~XXXXXXXX~~ Rec'd:- March 5th, 1957

Samples submitted to us show results as follows:

<u>Sample No.:</u>	<u>% Kyanite</u>
K 10	12.7

To: J. McDougall (2)

LAKEFIELD RESEARCH LIMITED

  
John W. Britton  
Manager

# R E P O R T

on

## ENDERBY KYANITE

### INTRODUCTION:

A one day visit was made to the Enderby kyanite prospect during December, 1956, and about 100 pounds of samples collected. The following short report is based on this examination.

Name: Enderby Kyanite  
Owner: Ed Cook, Enderby, B.C.  
Agent: W.M. Puritch, Grand Forks

### LOCATION AND ACCESS

The property is located about 2½ miles up a good logging road which leaves the main Vernon Highway approximately 2 miles south of Enderby, B.C. The road climbs the eastern side of the valley to the site of logging operations now in progress.

The showings occur in the road cut at an elevation 1000 - 1200 ft. above and facing the mile-wide valley floor. Overburden is extensive (97%) but light on the wooded and moderately steep slope. A water hole is reported 600 ft. from the main prospect.

### PROPERTY AND HISTORY

Kyanite was recognized by Puritch in samples of

rock collected by Ed Cook of Enderby in a cut put in for a logging road constructed last year. Eight claims were located. Newfield Mining Co. of Spokane (who had an office in Salmon Arm and were doing work on Adams Plateau) took a \$150,000 option on it involving a \$1,500 down payment and \$2,500 after 60 days. The option was dropped before the second payment and the claims are again open to deal. Mr. Beaton of Clayburn and several American engineers have examined or shown interest in the property.

#### GEOLOGY AND DESCRIPTION

The prospect consists of four narrow, widely spaced kyanite--bearing quartz veins in highly contorted mica schists of the extensive Shuswap series of central B.C. (See enclosed map, also G.S.C. Prof. paper 48-4.)

The veins, widest of which is 6 feet, are on the average about 100 feet apart although traces of poorly developed ones occur in between. Paralleling gray felsite dykes appear related to the veins. The schists in general are steep dipping but often contorted. One wall of the vein is usually smooth as though following a fault contact paralleling the schists while the other is extremely irregular with pinching and swelling around knots in the country rock common. Thus at road level the best showing - that farthest east - is almost 10 feet wide but pinches to about 3 a few feet beyond.

The vein texture is coarse, more resembling a pegmatite, and the quartz shows distinct parting. The kyanite occurs

erratically in the vein as large, individual or interlocking blue columnar crystals, often seven inches in length, and intergrown with thin films of muscovite mica. Massive concentrations of smaller bladed crystals are found in schist knots near the irregularly defined walls. In the latter, 'eyes' of slightly bluish-gray, highly fractured corundum (sapphire???) up to  $1\frac{1}{2}$  inches in diameter are common. (It is extremely rare to find corundum associated this closely with quartz although under these conditions involving dynamic metamorphism laws concerning mineral associations do not always hold.)

#### DEVELOPMENT

Outside of the sections exposed by the road out no work outside of sampling has been done and even prospecting has been neglected.

#### ASSAYS AND RESERVES

Our samples have not as yet been checked but previous work indicated the material able to withstand more heat than most kyanite. Across a six foot average width the grade does not exceed 10% but local concentrations would run 80% kyanite. The content of the enclosing schist is not known but no kyanite was noticed in the rocks seen.

#### CONCLUSIONS AND RECOMMENDATIONS

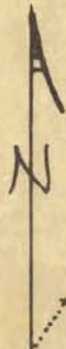
This deposit would be of interest to us only if small quantities of high grade kyanite (hand sorted) were needed

locally. Prices range from \$30.00 - \$80.00 ton depending on grade, etc. Tonnages in excess of  $\frac{1}{2}$  million averaging 10% or better are a minimum for large scale, low cost mining and vein deposits are seldom considered.

James J. McDougall  
Geologist, St. Eugene Mining Corp. Ltd.

Vancouver, B.C.  
December 30th, 1956.





O V E R B U R D E N (1 to 3 ft.)

2000

felsite dyke

LOGGING ROAD

160' V

approx 5% kyanite

20% kyanite

1800

kyanite in broken rock


L I G H T O V E R B U R D E N


1700

SKETCH MAP OF ENDERBY KYANITE

J. McDougall, St. Eugene M.  
Dec./56

LEGEND

 ...Kyanite-bearing quartz vein

 ...Salmon Arm formation (Shuswap Patn.)  
-locally contorted green & black mica schists.

Scale: 1"=50' Elevations approx. only.