

J. Hundere have located several showings of copper, lead and zinc. The initial finds were float in talus and creeks but material has since been found in place.

West of the above, near the western limit of a granite body that occurs in the area, is an occurrence of galena in quartz veins cutting the intrusive. This was found and sampled by Skonseng.

5. Frances Lake Barite Showing

Six miles northwest of the northwestern tip of Frances Lake is an occurrence of coarse massive barite. It is found in outcrop or near outcrop on the north shoulder of a mountain.

One showing is a vein cutting quartzite and striking at 205°T. It can be traced in float for a distance of about 300 feet but no accurate estimation of width is possible as outcrop is scarce. The width is to the order of 5 or 10 feet judging from the distribution of the float. The vein is probably vertical or very steeply dipping and is situated at the extreme northwest limit of the ridge just east of a small knoll. It can be seen fairly easily from the air.

South of this locality and on a saddle shaped part of the ridge is an extensive area over which a number of showings of barite were seen. These are not aligned in any particular direction and could represent a number of veins or possibly one very wide vein or body. Quartz veins occur in the general vicinity

and the host rock appears to be quartzite.

T. Skonseng, who found the showing, says that there is more in the area but it could not be located at the time of the examination.

Twenty claims have been staked.

(signed) T. L. Sadlier-Brown

September 21, 1966.



Department of Energy, Mines and Resources  
Ministère de l'Énergie, des Mines et des Ressources

MINERAL PROCESSING DIVISION

Mines Branch  
Direction des mines

File Number  
N° à rappeler

40 Lydia Street,  
Ottawa 1, Ontario,  
February 6, 1967.

Mr. Clyde L. Smith,  
Senior Exploration Geologist,  
Atlas Explorations Limited,  
330 Marine Building,  
355 Burrard Street,  
Vancouver 1, B. C.

Dear Mr. Smith:

I cannot answer your inquiry of January 30 except in the broadest of terms, because I do not know anything about your deposit. But let us look at the factors you have raised:

1. The only value that has any meaning at this time is the price at which you can deliver a saleable product to a customer. For the most part barite must be considered as a low-cost commodity, and therefore the transportation cost is significant. The location of your deposit in the southern Yukon is not favourable. The nearest Canadian market is the oil well drilling industry in the west, which means you would have to sell your barite, upgraded if necessary but probably unground, to the suppliers of drilling mud service -- particularly Magnet Cove Barium Corporation Limited and Baroid of Canada, Ltd., both near Edmonton. Even if your deposit is located on the Alaska Highway, you would have a long and costly haul to the grinding plants of these companies at Rosalind and Onoway, respectively -- and I doubt whether you can sell any to them at this time. If the deposit is far from the Highway, then this market is out of the question.

The only other possibility of developing barite in such a remote part of the country would depend on the proximity of the property to Skagway. If the barite can be put on a boat with very little transportation cost from mine to wharf, then it might go to the United States. For example, the barite that is mined in Nova Scotia is on tidewater and is shipped in crude form to ports in the Gulf of Mexico for grinding and blending, prior to its use in oil well drilling muds. If the barite is a very high pro-

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portion of the deposit and is essentially free from inclusions and associated minerals that would cause discolouration of the ground product -- that is if the processing cost would be low and the ground product near white -- and if it can be readily mined and put on a boat at Skagway, then there is some hope.

2. The principal use of barite is in drilling muds, wherein only the specific gravity is important. But the price is relatively low. Barite for use in paints and chemicals commands a higher range of prices but is governed by more complex and demanding specifications. Nominal f. o. b. prices in the United States range from \$10 to \$25 a ton for drilling mud grade and \$20 to \$50 a ton for chemical grade, according to the quality and degree of processing.

3. Nothing meaningful can be said about concentration without a detailed knowledge of the mineralogical association. Barite is heavy enough that it can usually be separated by gravity methods, but if sulphides are present it requires flotation.

To be any more specific, I would have to know such things as the exact location of the deposit, the colour of the barite, the mineralogical association and any other possible mining products.

I enclose a copy of our annual review on barite for 1965 for general background. If anything is not clear or if you want more details please write.

Yours sincerely,



J.E. Reeves

JER:rlm  
Enclosure



INTER-OFFICE MEMO

TO	T.S. Brockley	OFFICE	Ross	
TO	C.C. Smith	OFFICE	Van	
SUBJECT	Barite from Ted Group.		DATE	Mar 9, '37

MESSAGE

Seeing as I have reached the onerous age of 30 today, I would much appreciate a small present from you. Please send or bring a sample, or samples if you like, of the barite from the inestimable Ted group to our Vancouver office for inspection. What I envision is that we

SIGNED

REPLY

get 3 or 4 people together in a circle and pass the sample, or samples if you like, from person to person for inspection and comment. I have not discussed this with EOC but I am sure that he will agree on the value of such an exercise. All the best to you and Ruth in

SIGNED

DATE

OFFICE

your north country pursuits  
Yours -  
Thine (e.i.s)

30th January, 1967

Industrial Minerals Division  
Mines Branch  
Department of Mines and  
Technical Surveys  
Ottawa, Canada

Gentlemen:

Atlas Explorations Limited holds a barite property in the southern Yukon, and we are interested in securing information regarding means of determining value of the material, uses for which it might be suited, means of concentration, etc.

We would very much appreciate your assistance in supplying us with any and all information available regarding barite.

Yours truly,

ATLAS EXPLORATIONS LIMITED

Clyde L. Smith  
Senior Exploration Geologist

CLS:rb