Eagle Claims
(Rock Candy) 800782

DEPARTMENT OF MINES.

Nº 10339

SPECIMEN OR SAMPLE TAG.

Taken by W. M. Sharp

Address Ainsworth, B.C.

Submitter's mark (if any)

Date May 1953.

District Greenwood Mining Division

Property and locality Eagle claims, north of Rock Candy mine.

Width sampled 48 inches.

Assay for % CaF_2; $BaSO_4$; SiO_2; $CaCO_3$; Fe_2O_3 and/or FeS_2 & trace mineral impurities

Remarks The above represents a sample of concentrate grade; % of contained impurities is desired.

OFFICE OF THE CHIEF,
MINERALOGICAL BRANCH

WHEN REPLYING
PLEASE REFER TO FILE No.......................

THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES
VICTORIA

May 28, 1953.

Mr. William M. Sharp,
Ainsworth, B.C.

Dear Sir:

A sample of fluorite submitted by you to our Assay office has been brought to my attention. I presume this sample was from one of the Spar 1 to 6 claims located south of and adjoining the Rock Candy group and registered in your name.

I would like to make a brief examination of this deposit during the coming field season and would prefer to do so when someone, who knows where the actual showings are, is on the ground - if that is possible. Do you contemplate doing any work there this summer - if so, when?

I expect to be in the Okanagan about the end of August or beginning of September and would proceed to Grand Forks at that time.

If there is not likely to be anyone on the property, would it be possible for you to send me a sketch indicating the location of the actual fluorite showings on the claims?

Yours very truly,

J. W. McCammon

J. W. McCammon,
Mineral Engineer.

JWMcC/nb

Answered
asked for word if
he still wishes
to look over the
few showings
present your layout
per sample tag

Eagle Claims, north of Rock Candy Mine.
Represents a sample of "concentrate" grade.

FLOTATION
CYANIDATION
AMALGAMATION
TABLE CONCENTRATION

TELEPHONE: MARINE 5821
RES. FRASER 6258

J. R. WILLIAMS & SON LTD.
PROV. ASSAYERS & METALLURGICAL CHEMISTS

OFFICE AND LABORATORY:
580 NELSON STREET

VANCOUVER 2. B.C.

File #112772/775.

April 27th.1953.

Messrs.Kootenay Mining Services Ltd.,
Ainsworth,B.C.

Dear Sirs:

Determinations made on samples listed below,gave the following results.

	CaF_2 %
No.2976----------	35.15
No.2977.----------	50.53
No.2980.----------	53.04
No.2981----------	60.28

199.00 49.7%

Yours respectfully,

J.R.WILLIAMS & SON

per R.N.Williams

R.N.Williams

OFFICE OF THE CHIEF ANALYST AND ASSAYER

THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES

VICTORIA

SAMPLE RECEIVED FROM Mr. W. M. Sharp,

ADDRESS Ainsworth, B.C.

LABORATORY No.	SUBMITTER'S MARK.	LABORATORY REPORT.
9754	10339	Assays: Fluorine 47.29 (96.6%) 48.9 / Calcium 50.00 51.1 } CaF_2 = 96.6% Sum gravimetric Fl. Carbon dioxide 0.11 Silica 2.00 - 0.2 - 0.3% Barium Oxide 0.27 Iron, total 0.007 ± Sulphur, total 0.05 ± Lead and Zinc nil ± The above figures are percent. Total. 99.727 A test for radioactivity was made, and none was detected.

DATE 23rd June, 1953
/as

G. C. B. Cave
CHIEF ANALYST AND ASSAYER.

3M-750-9636 (2)

TELEGRAMS
BRIMETACOR VANCOUVER

HEAD OFFICE — MONTREAL

TELEPHONE
MARINE 2561

THE BRITISH METAL CORPORATION
(CANADA) LIMITED

505 DUNSMUIR STREET
VANCOUVER 2, B.C.

July 8th, 1953

Kootenay Mining Service Limited,
Ainsworth, B. C.

Attention Mr. W. M. Sharp,

Dear Sirs:

I must apologize for the long delay in answering your letter concerning the marketing of your proposed production of Fluorspar.

In the interim we have been attempting to develop some information on the possible market for this product and the delay in answering your letter is due to the fact that it has taken considerable time to canvass the situation.

We should advise you that our company is not interested in the purchase of materials. Our function is to act as agent for the producer in placing his production for him to the best advantage.

We would definitely be interested in marketing this fluorspar for you and if the idea of our company taking care of the marketing problems for you is of interest, we would be glad to go into the question with you in more detail.

Yours very truly,

THE BRITISH METAL CORPORATION
(CANADA) LIMITED

R.S.T. Fraser

R. S. T. Fraser
British Columbia Manager.

/WM

OFFICE OF THE CHIEF ANALYST AND ASSAYER

THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES

VICTORIA

SAMPLE RECEIVED FROM Mr. T. Hawes,

ADDRESS Ainsworth, B.C.

LABORATORY No.	SUBMITTER'S MARK.	LABORATORY REPORT.
9117	2	Spectrochemical Analysis: An analysis for all the base metals was made. Calcium (present in the fluorite) was found; the other metals found, and their percentages, were those occurring normally in rocks. CaF2 ? Assays: Silica % 0.1 — Sulphur % 0.8 — Fluorine % 46.4

DATE 8th December, 1952

/as

G C B Cave

CHIEF ANALYST AND ASSAYER.

3M-750-9636 (2)

Fluorite (Fluor-Spar)

Chemical Composition — CaF_2.

Occurrence — In all types of deposits from hypothermal to epithermal, both fissure vein & replacement. Most production from low temp. epithermals.

Association — Generally with quartz, barite, calcite, pyrite, & frequently galena & sphalerite. Occurrences in B.C. commonly enclosed in or closely related to syenitic and alkaline intrusives.

Properties Fluorite & Related Minerals

	Color	Lustre	Transpar.	Mode	Hard.	S.G.
Fluorite	Various	Vitreous	transparent-sub-translucent	Cubic Crystallin	4.0	3.0-3.2
Quartz	Com pale	"	Transpar to sub-translusc	Com Crystall	7.0	2.6
Calcite	Com pale	"	"	"	3.0	2.7
Barite	Com pale	"	transpar. to opaque	Com Tabular Crystallin	2.5	* 4.3-4.6
pyrite	Brassy	metall.	Opaque	Cubic crystall	6-6.5	* 4.9-5.1
galena	Leadgray	metall.	Opaque	Cubic Crystall	2.5-2.7	7.4-7.6
sphalerite	Varied	Resinous	Translusc to opaque	Tetrahed. Crystall.	3.5-4.0	3.9-4.1

Method of Concentration

(a) Hand sorting

* (b) Differential Flotation

* (c) Heavy-media Separation

(d) Gravity (difference too small to be practical jigging tabling etc)

(e) Decrepitation - early method prior to flotation.

Refs.

Fluorite (cont'd)

Uses.
- Steel + Aluminium, and magnesium smelting.
- Chemical Industries - growing list of useful compounds.
- Refrigeration - Freon gas.
- Ceramic Industry (highest quality), glasses, enamels, and vitrolite
- Refining aviation gas.
- cement production
- rock wool, glass fibre - fluxer.
- paint pigment
- various minor uses.

Grades
No. 1 Ceramic; +95% CaF_2 } inferred.
No 1 Special - 90-95% " }
No 2 Ceramic 85 - 90%
Metallurgical — +70%
acid — ? +97% (U.S.A); +96%? Canada.

Prices - E+M.J.
Metallurgical (+70%) @ $43.00/ton F.O.B. Illinois-Kentucky.
Imported " (+70%) 38-40.00/ton, atlantic seaboard, duty-paid.
acid (high purity) (+97%) - $60.00/ton F.O.B. Rosiclare Ill., and Boulder + Salt Lake Colorado.
Ceramic (95% CaF_2) $45.00/ton F.O.B. Rosiclare Ill.

Future Consumption to increase.

Note Barite Oil + Chemical Industries 1,000,000 tons 1952
Produced by straight mining or by concentration of low grade ores.
Oil industry requires product with high S.G. + good "muddying" characteristics.
crude. $8.31/ton
ground $20.00/ton.