

Pharmaceutical Barite for Barium Contrast Suspension Products: X-Ray, MRI, CT Scan Applications

Voyageur Tap's Into Highest Margin Barite Market in the World

JOINT VENTURE WITH WORLD CLASS PHARMACEUTICAL COMPANY FOR TURN KEY BARIUM CONTRAST PRODUCTION

VOYAGEUR MINERALS LTD ("Voyageur") is moving forward to manufacture Barium Contrast Suspension products for the health care industry. Voyageur has joined forces to create a joint venture ("JV") with **Chief Medical Supply Ltd. ("CMS")** who is a leader in the manufacturing, distribution and sales of pharmaceutical products in Canada.

The JV will allow Voyageur to fast track its production and sales of barite into this highly lucrative industrial market.

NEW CANADIAN INDEPENDENT BARITE SOURCE

VOYAGEUR holds a 100% interest in three barite deposits; Frances Creek, Pedley Mountain and Jubilee Mountain, in British Columbia, Canada. These deposits have grades of barite that can satisfy the high dollar, high-grade industrial market.

FRANCES CREEK INDUSTRIAL BARITE PROJECT

VOYAGEUR is advancing Frances Creek's NI-43-101 drilled resources from previous drilling to production. The project is slated for potential production in 2019 with a 10,000 tonne bulk sample.

FRANCES CREEK NI-43-101 RESOURCE

INDICATED		
ZONE	MILL TONNES	BARIUM TONNES
A-ZONE	36,567	13,215
B-ZONE	129,643	49,530
A + B	166,210	62,745
%BaSO₄	37.75%	
INFERRED		
ZONE	MILL TONNES	BARIUM TONNES
A-ZONE	42,873	14,159
B-ZONE	152,706	55,070
A + B	195,578	69,230
%BaSO₄	35.40%	



HIGH PURITY BARIUM SULFATE

The grade of BaSO₄ at the Frances Creek deposit is exceptionally high. The grades vary between 96.5% BaSO₄ to 99.5% BaSO₄. This ranks the Frances Creek barite deposit as one of the highest grades to be discovered world wide, in recent years.

WHAT IS BARIUM?

Barite (Barytes, Barium Sulfate) is the naturally occurring mineral form of barium sulphate. Its main properties are its high specific gravity (4.5) and very low solubility. It is a non-toxic environmentally friendly mineral that is not chemically reactive. In its purest and highest grade barite has a wide array of industrial applications. Industrial grade barite is used in the paint, chemical, plastics, pharmaceutical and other industries across North America.

PHARMACEUTICAL BARIUM IS IN DEMAND!

As the world's population ages the demand for pharmaceutical barite continues to increase. Currently North America is 100% reliant on imports from China. There is limited supply of pharmaceutical barite and the Chinese domestic market demand has caused a drastic reduction in exports to North America. Currently, north american pharmaceutical companies are relying on high priced barium precipitate products, mainly from China.



STRATEGIC ALLIANCE WITH JV PARTNER CHIEF MEDICAL SUPPLY LTD

CMS provides high quality, competitively priced pharmaceuticals and hemodialysis products to pharmacies and hospitals across Canada. Operating from both its 33,000 square-foot plant in Calgary, Alberta and its 90,000 square-foot facility in Mississauga, Ontario, CMS is able to supply products coast-to-coast. Regulated by Health Canada and complying with the Canadian Food and Drug Act, CMS has both drug and medical device establishment licenses issued by Health Canada.

TURN KEY MANUFACTURING

VOYAGEUR shareholders are uniquely positioned to tap into the highly lucrative barium pharmaceutical market. The JV company has the ability to manufacture and bottle the barium contrast suspension products quickly.

MARKETING

VOYAGEUR & CMS will focus marketing efforts on the following sectors for barium contrast sales:

- Canadian diagnostic imaging clinic
- Canadian Hospitals
- European diagnostic clinics and hospitals
- USA diagnostic clinics and hospitals

HIGH DEMAND HIGH REVENUE STREAM

- Barium Contrast sells by the bottle. The price of the contrast bottle currently varies between CAD\$5-CAD\$19 per bottle.
- Owning the source of barite allows Voyageur to be highly competitive due to lower costs per bottle of barite.
- Voyageur plans to start initial production from its 10,000 tonne 2019 bulk sample. Upon meeting that milestone Voyageur will increase production per year to service the world wide market.

CORPORATE INFORMATION

SENIOR MANAGEMENT

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