



PRODUCERS table listing various mineral products and their corresponding producer numbers. Includes categories like Ammolite, Fly ash, Gold (placer), Humalite, Limestone and/or dolomite, Metallurgical coal, Salt and calcium chloride, Shale, Silica sand, Stone, Sulphur, and Sand and/or gravel, peat and marl.

PAST PRODUCERS table listing mineral products and their corresponding past producer numbers. Includes categories like Ammolite, Bentonite, Building stone, Calcium, magnesium brine, Clay, Copper, Fly ash, Humalite, Lead-zinc, Limestone or dolomite, Marl and tufa, Pumice, Salt, Silica sand, and Sodium sulphate.

SELECTED EXPLORATION PROJECTS table listing specific exploration projects for various minerals. Includes categories like Diamond, Dolomite, Iron-vanadium, Lead-zinc, Limestone, Lithium, Magnete (heavy minerals), Metallurgical coal, Phosphate, Potash, Silica sand, Uranium, and Zinc-vanadium-nickel-REE.

SELECTED PROSPECTIVE AREAS table listing specific areas for mineral exploration. Includes categories like Ammolite, Bentonite, Calcium chloride, Copper, Diamond, Gold, Gypsum, Humalite, Iron-vanadium, Lead-zinc, Lithium, Magnete, Metallurgical coal, Phosphate, Potash, Rare earth elements (REEs), Salt, Silica sand, Titanium-zirconium, vanadium, REEs, and Uranium.

Basemap Legend, Producer: a mineral concentration from which ore grade material is being extracted, Exploration project: an exploration property with a mineral concentration that has been drilled or investigated, Prospective area: a region geologically favourable to host mineral occurrences and therefore, favourable for the exploration of mineral deposits.

DESCRIPTIONS

The geological units mentioned here are described in the Alberta Table of Formations and the Bedrock Geology of Alberta and Surficial Geology of Alberta maps which are available at the Alberta Geological Survey's website www.ags.aer.ca. AMMOLITE has been extracted from surface collecting or open-pit mining for jewelry and specimen-collection in the province since the 1960s. BENTONITE was mined west and southeast of Edmonton, and also near Drumheller, for the production of drilling mud, foundry sand, iron ore pellets, pet waste absorbent, agricultural/chemical carriers, geotechnical barriers and cosmetics. CALCIUM CHLORIDE and associated compounds containing magnesium, potassium, and bromine are found in calcium-rich formation brines. COPPER occurs in different types of deposits associated with other metals throughout Alberta. DIAMOND-bearing kimberlite and related ultrabasic alkaline rocks occur as clusters of pyroclastic and volcanoclastic rocks, and dikes and sills of Late Cretaceous to Paleocene age. FLY ASH powder is produced as a by-product in coal-fired power generation. GOLD occurs in different types of deposits throughout Alberta. HUMALITE is extracted from open-pit sub-bituminous coal mines and processed into liquid and dry soil conditioners, and drillings fluid additives. IRON-VANADIUM ironstone deposits were evaluated by industry in northwestern Alberta. LEAD-ZINC occurrences were found in carbonate rocks at surface in the Rocky Mountains, and, in the early 1900s, lead and zinc were extracted from adits in the Oldman River mine. LITHIUM occurs as a dissolved element in some oil field brines in the province. MAGNETITE and other heavy minerals such as titanium dioxide occur in sand and sandstone beds found near-surface along the foothills west of Lethbridge and north of Calling Lake. MARL AND/OR TUFFA were mined in Alberta for both cement making and agricultural liming. METALLURGICAL COAL is currently mined near Hinton and Grande Cache. PEAT has been harvested in Alberta for horticultural purposes since the 1960s. PHOSPHATE occurs in sedimentary rock beds that may extend over tens to hundreds of kilometers along the Rocky Mountains and Foothills. POTASH occurrences were found in oil and gas wells and mineral exploration drilling. RARE-EARTH ELEMENTS (REEs) were documented in various alkaline granite and pegmatite units in the Canadian Shield. SILICA SAND is produced from Lower Cretaceous sandstone in the Peace River area and from Holocene unconsolidated sand deposits northeast of Edmonton. SODIUM SULPHATE was mined in southeastern Alberta for manufacturing kraft paper, glass, detergents, textiles, and chemicals. STONE is mined in west-central to southwestern Alberta. SULPHUR is extracted from crude oil and natural gas processing. TITANIUM-ZINC, vanadium and rare earth elements (REEs) occur naturally in small quantities in oil sands. URANIUM occurs extensively in the Athabasca Basin and Canadian Shield in several types of deposits related to granites, pegmatites, metamorphic rocks, and structures such as unconformities, shear zones and veins.