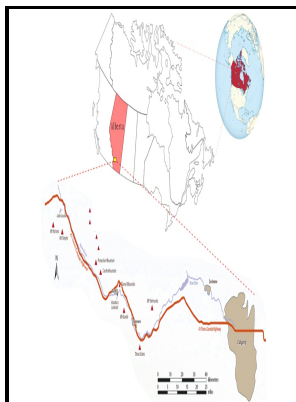


Geology of East-Central Alberta.

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Description: -

-Geology of East-Central Alberta.

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Memoir (Geological Survey of Canada) -- 232Geology of East-Central Alberta.

Notes: 1

This edition was published in 1941



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Bulletin of Canadian Petroleum Geology, 28, 211-251. Everything is more spread out with longer offsets and sparser shot and receiver lines. The current study seeks to explain the mechanisms responsible for the increased accommodation and to demonstrate how these deposits can be integrated into the developing sequence stratigraphic framework for the Viking Formation.

Geologic feasibility of underground hydrogen storage in Canada

Structural History The Western Canadian sedimentary basin underwent multiple phases of tectonic evolution before becoming a foreland basin sedimentary depocenter. The use of hydrogen gas generated through off-peak electrolysis has been highlighted by the Canadian government as a potential avenue forward in managing electrical grids with surplus and intermittent electricity generation. Three main tectonic phases are proposed for the basin: 1 Precambrian to Paleozoic rifted and passive margin related to continental extension ; 2 Devonian to Early Jurassic conversion to a convergent margin, resulting in long-lived continental arc magmatism accompanied by a series of collisional events involving the accretion of allochthonous terranes and the development of back-arc basins; and 3 Jurassic to Paleogene foreland basin development and infill during terrane collision with the North American margin.

Regional interpretation of steep faults in the Alberta Basin from public

This cross section crosses over the Snowbird tectonic zone between the 07—21 well and the 01—30 well. When the Joli Fou Formation is selected as the datum, the geometries of the falling stage and lowstand systems tracts in sequence 2 remain consistent along the cross section.

Geologic feasibility of underground hydrogen storage in Canada

However, when the wells in the intervening area are added to the cross section, surfaces in sequences 2—4 become distorted, and sections become overthickened from 54. Figure 10 illustrates that these bodies lie on trend with NW-oriented magnetic lineaments.

Geology of Alberta

This package is a sand-dominated unit in the study area, with minor mudstone interbeds observed. To the east, the Leduc carbonate shelf ends at

an abrupt, linear, NE-trending edge known as the Killam Barrier.

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