

CSUR 2020 Virtual Field Trip

Montney Formation analogues in 3D: a virtual field trip to Kananaskis and beyond!



Typically at this time of the year, CSUR is either planning or is in the midst of a field trip. Given the current situation, CSUR decided to bring the Outcrops to your Desktops! Led by Jon Noad (SediMental Services), a senior geologist with a wealth of experience from all over the globe, the attendees were transported, virtually, towards the Alberta Rockies to look at a series of outcrops.

The objective of the trip was to investigate the Sulphur Mountain Formation outcrops, which are considered to be age equivalent, and a direct analogue, to the Montney Formation. With the Montney considered to be the most prolific unconventional resource play in the Western Canadian Sedimentary Basin, Jon pointed out many features of the outcrops that relate back to the subsurface and its current reservoir potential.

Prior to hosting this webinar, the speaker traversed the various locations in and around Canmore and Kananaskis in order to explicitly film and highlight the various features within the outcrop stratigraphy. With the combination of videos, explanatory slides and expert commentary, the presentation laid out and succinctly elaborated on some of the dramatic

events during the earth's history, including the massive extinction event that decimated about 94% of the species on the planet some 250 million years ago and the specific mechanics of the depositional models over time. Events such as these in the distant past leave their fingerprint in the rock record for us to explore and exploit for hydrocarbons. The speaker methodically explained and profiled the various sedimentary structures & fossils that bear evidence to the earth's past. Finally, Jon explained how modern tools like the gamma ray & wireline logs can point to specific properties and packages in the core today that can be used to correlate to depositional sequences in the subsurface.

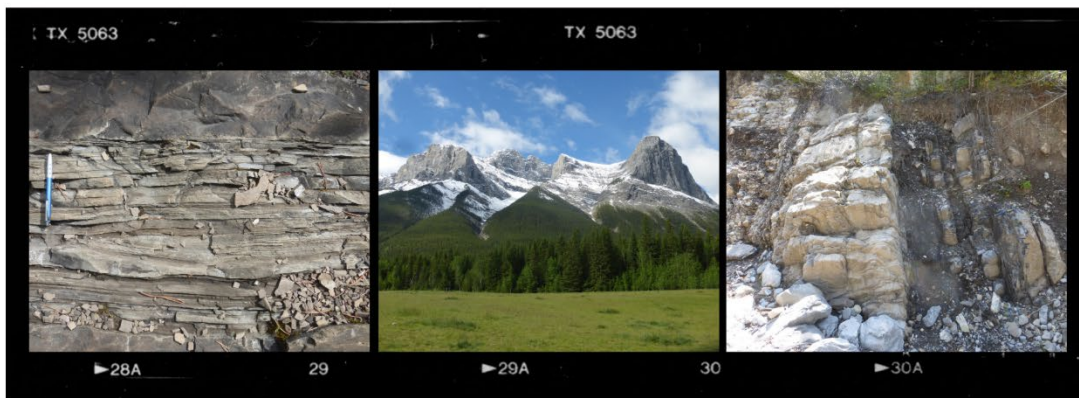
ABSTRACT: The Lower Triassic Montney Formation is one of the most significant unconventional reservoirs in western Canada. It occurs only in the subsurface, but the age-equivalent Sulphur Mountain Formation outcrops in several areas in Alberta. Most of us have examined the Montney on logs, or even in core, but outcrops around Kananaskis and Canmore provide us with an unparalleled window into its three dimensional character.

From the comfort of your own home you will be able to explore a series of fascinating, little known field localities that reveal the stratigraphy, the cyclicity and sedimentology of the Montney's sister Formation. Fascinating examples of sedimentary structures and fossils will impress even the seasoned geologist. However the quality of the exposures, married with the experience of your field guide, allow the associated concepts to be explained so that non geologists will also learn how to interpret these rocks.

Innovative videos, shot in the field with explanatory commentary, will be interspersed with pictorial slides and Montney core examples that help to elucidate the character of this often enigmatic geological interval. There will also be the chance to ask questions and explore how the varied, shoreface depositional settings influence reservoir development, and may affect drilling strategies. You will leave this session feeling like you have spent a thoroughly rewarding day in the field, brimful with ideas to take back to the workplace.

PRESENTER: Jon Noad, SediMental Services

After graduating from Imperial College, London in 1985, Jon worked as a mining geologist in South Africa. He returned to Europe in 1990 to survey submarine cable routes, and completed a Masters in Sedimentology at night school. This was followed by a full time PhD. based in eastern Borneo, after which he joined Shell, taking on various production and Middle Eastern exploration roles. He moved to Calgary in 2006 and has worked as Senior geologist and Exploration Manager for several Canadian and Colombia based oil companies. He currently runs SediMental Services, offering consulting and geological training, focusing on field trips. In his spare time Jon likes running, wildlife photography, travel and hot curries.



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August 13, 2020 | 10:00am
Presented by Jon Noad, SediMental Services

For more Information and Registration visit: www.csur.com/events