
Report conducted by:  RAKHIT PETROLEUM CONSULTING LTD.

The overall objective of this study is to apply RPCL's shallow gas knowledge and techniques to the uppermost Cretaceous and Tertiary section to determine the shallow gas potential over a large area of west central Alberta. The formations analyzed were:

- Judith River (Belly River Group) – Upper Foremost, Oldman, Dinosaur Park
- Edmonton Group – Bearpaw, Horseshoe Canyon, Battle, Scollard
- Paskapoo

Specific objectives of the study were as follows:

- Develop a stratigraphic model for the area.
- Define formation boundaries, and where possible, inter-formational boundaries, which may impact the study.
- Develop a comprehensive database of reservoir pressures, fluid chemistry, and stratigraphic tops for all the wells with data in the stratigraphic section analyzed.
- Conduct a regional hydrogeological analysis to define areas of gas charge and water charge and the location of unique pressure systems.
- Create a summary report and presentation of these findings.

Deliverables (digital and hard copy) include:

- Report with conclusions and recommendations
- Log analysis report
- Technical illustrations (~20)
- High-resolution regional stratigraphic cross-sections (10)
- Detailed cross-section (Paskapoo)
- Regional hydrogeology and water chemistry maps (8)
- Isopach maps by formation (11)
- DST recovery maps by formation (8)
- Pressure versus elevation graphs by formation (8)

NWSG (2005)

**For more information contact Cheryl Wright
at (403) 269-3644, ideas@canadiandiscovery.com**