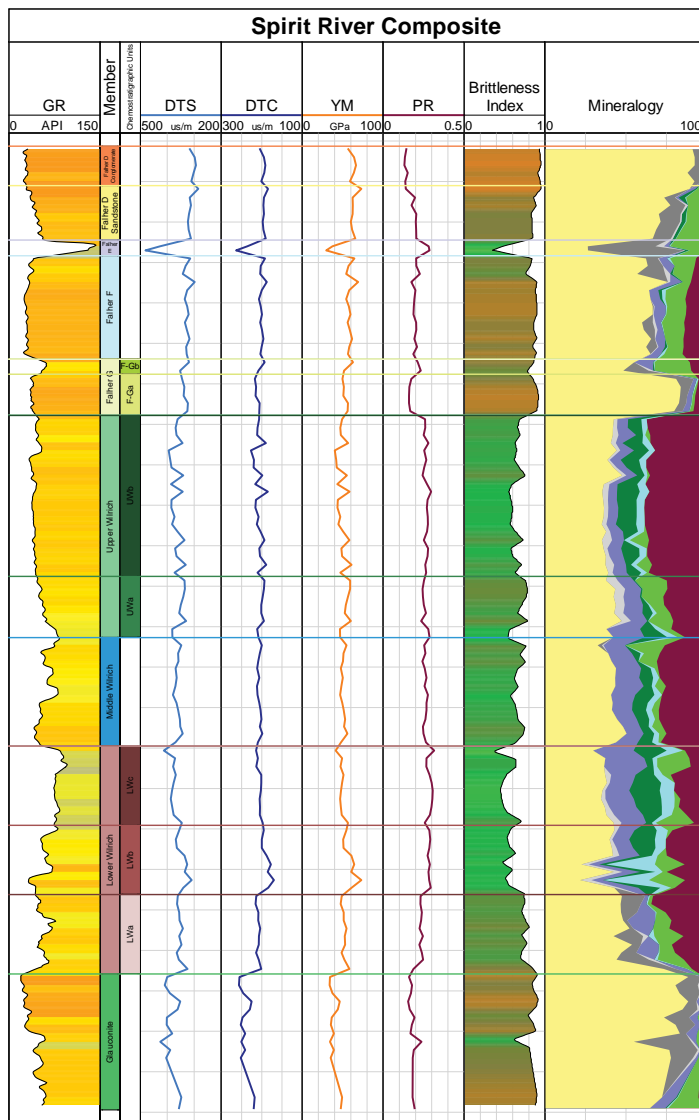


# Case Study: a new approach for enhanced reservoir characterization and optimization: Spirit River Group

*The Spirit River Group represents one the most prolific reservoir successions in Alberta. The uppermost Falher & Notikewan Members are the principal reservoirs, however new technology has extended production into the deeper ‘tighter’ Wilrich intervals. The key to enhanced production is a robust stratigraphic model for improved well bore placement and cost effective RQ modelling for frac optimization based on new geological data.*

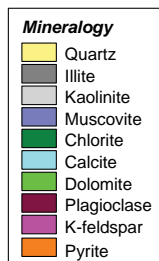


The Chemostrat workflow permits a fresh look at the different strata of the Spirit River Group and can be acquired for a fraction of time and resources necessary for petrographic or XRD data.

Elemental data can be used for multiple applications including stratigraphy, mineralogy, rocks mechanics and reservoir quality for geosteering or completion optimization. The results of analysis run on select Spirit River cores indicate that the elemental data can confidently distinguish the Wilrich and Falher units, which have very different geochemical signatures.

### Delivery Outputs :

- Data in Excel® and LAS format:
  - Chemostratigraphy data (ICP-OES / ICP-MS)
  - Mineralogy data
  - TOC data (if applicable)
  - DTC/DTS, PR, YMOD and brittleness indices
- Table of chemostratigraphic tops
- Stratigraphic summary charts



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to arrange a presentation or  
express an interest.

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