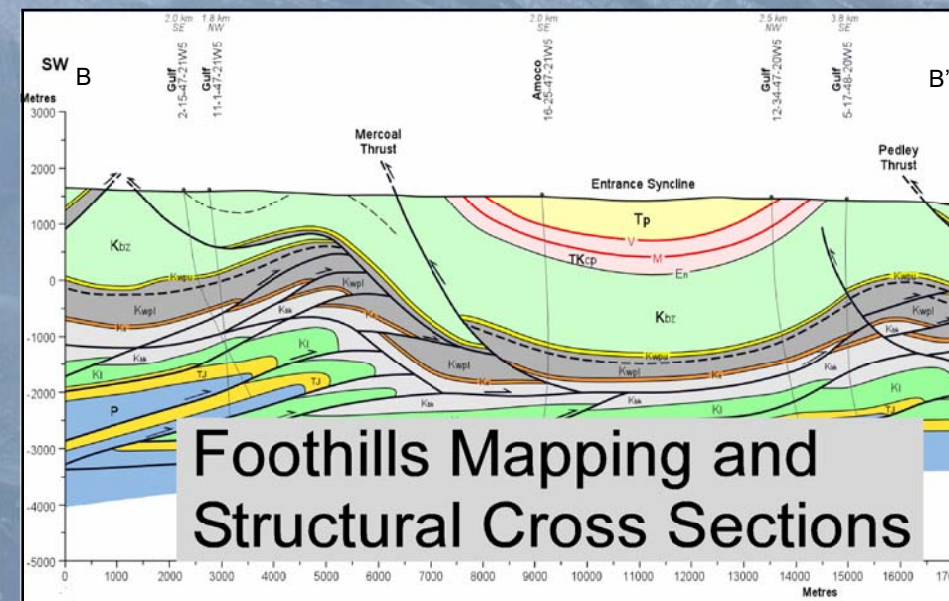
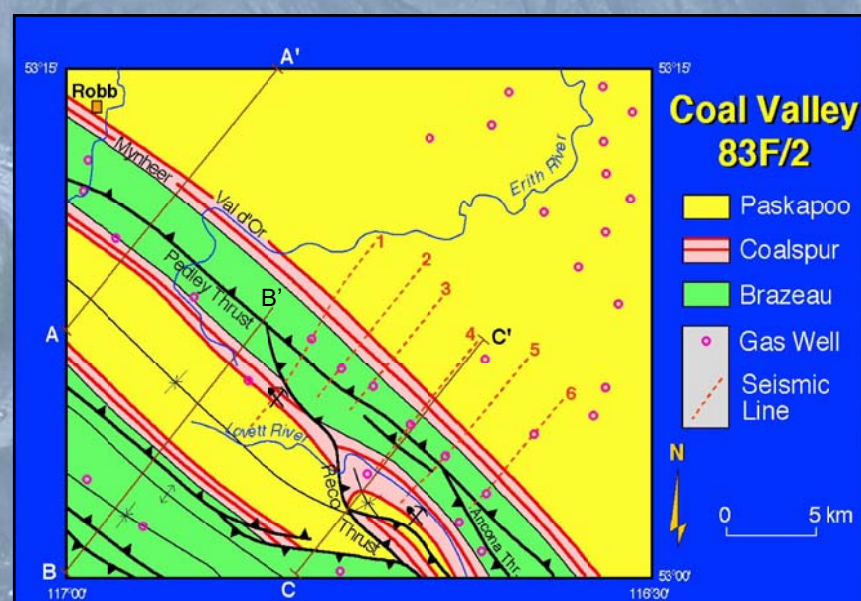


# Unconventional Gas and Oil Sands Section

## CBM and Coal Geology

- Coalbed methane resource evaluation
- Coal mapping and coal quality
- Geological modelling and interpretation
- CBM reservoir testing, characterization
- *Up Next - Shale Gas Evaluation*



Foothills Coal Geology and CBM

Resource Evaluation

Core Examination

Gas Content Analysis

Gas Measurement

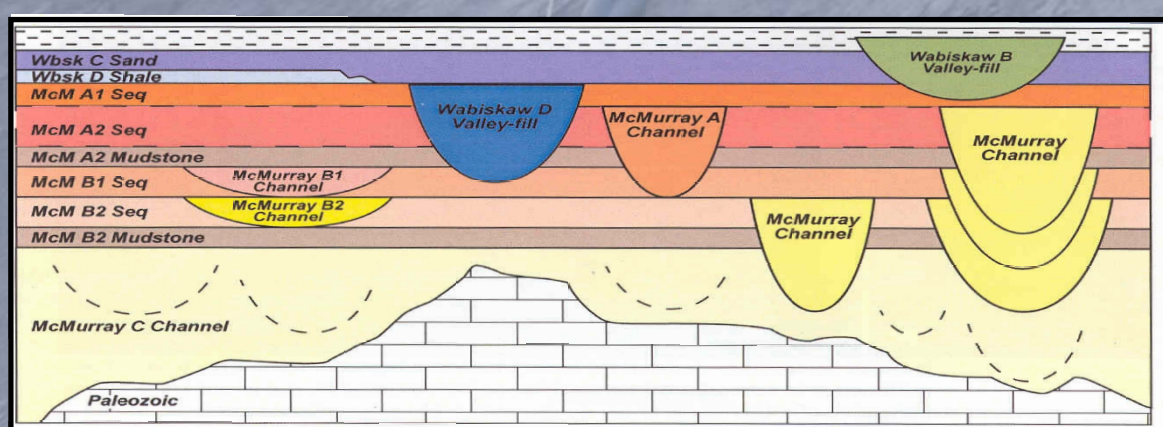
Regional Lineament And Coal Cleat Studies

Coal Zone Stacked Layer Model

Horseshoe Canyon-Bearpaw Upper Belly River Sequence Stratigraphy Model

## Oil Sands Geology

- Regional and local geology
- Stratigraphic studies
- Mapping and core logging
- Support EUB regulatory processes



Athabasca Stratigraphic Model (RGS)

### Core Description and Facies Modelling

Lower McMurray Depositional Model

Core Interpretation

Core Interpretation

## Data Integration and Processes

**Digital Data Sources**

1. AGS CBM Database
2. AGS Oil Sands Database
3. AGS Wells Database
4. AGS LAS Database
5. EUB Coal Database
6. EUB Oil Sands Database
7. EUB Production, Oil, Gas Databases

**New Data Sources**

1. Fieldwork / Testing
2. Core Logging
3. Log Analysis

**Information Management System**

1. Database design and implementation
2. Data Storage, Manipulations and Retrieval
3. Metadata

**GIS Digital Mapping and Analysis with ArcGIS**

**Information Disseminations**

1. Publications - digital and paper
2. Interactive Web-based GIS Map
3. Presentations

**Geological and 3D Modelling with Viewlog**

Visit Our CBM Web Page at: [www.ags.gov.ab.ca](http://www.ags.gov.ab.ca)