

Fracture Modeling Inc. (FRACMOD)

Oil & Gas Centre of Excellence

2024 Corporate Presentation

FRACMOD Corporate Overview

Oil and Gas Centre of Excellence

- Boutique consulting firm & technology partner based out of Calgary, AB
- Provide fully integrated reservoir studies with the capability of working as or alongside your in-house technical team
- Associates with over 25 years of domestic and international experience in the oil and gas sector
- Core technical service offerings include, but not limited to:



Core Service Offerings



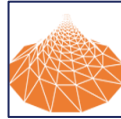
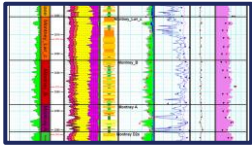
Petrophysical Analysis

Mappable Petrophysical Results

Thickness, Porosity, Permeability, Water Saturation, HCPV, Fluid Interface Contact Depths, Mineralogy

Conventional & Special Core Data

X-Ray Diffraction, Scanning Electron Microscope, Mercury Injection Capillary Pressure - pore throat size, Petrography, QEMSCAN, Pyrolysis



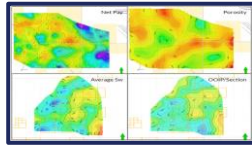
Geological Modeling & Interpretation

Unconventional Resource Plays

Continuous regionally correlated resource plays, calibrate TOC and gas content with core measurements and organic geochemistry

Geomodeling

Build 3D geocellular reservoir models populated with well tops, logs, and facies models. Generate mappable parameters and estimate OOIP and OGIP.



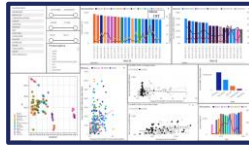
Data Analytics & Advisory

Play Evaluations

Data mining, analytics, and analysis for oil and gas plays (subsurface well information for asset studies, frac history, industry insights)

Acquisitions & Divestitures

Identification and evaluation of upside and full asset value of M&A candidates and deal strategic options



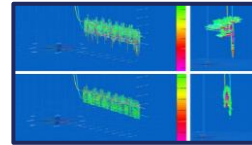
Hydraulic Fracture Modeling

Horizontal Well Design

Frac look-back analysis on existing horizontal wells, develop optimal frac design, incorporate stage shadow effects and micro-seismic.

PAD Design

Integrate petrophysical, geological and geo-steering data, DFIT analysis, model frac on existing wells, optimize well spacing, landing depth, stage spacing, look for parent-child implications.



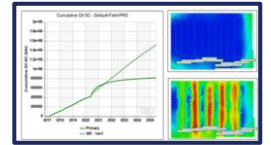
Reservoir Simulation & Forecasting

Full Field Simulation

Full field production forecasting and development planning (naturally fractured reservoirs, waterfloods, infill drilling to maximize pool recovery).

Enhanced Oil Recovery

Evaluate EOR solutions for conventional and unconventional plays (waterflood, CO2 flood, gas injection, SAGD, polymer, surfactant).



Team & Associates



Gurpreet Sawhney
President
Reservoir Engineer



Bintu Randria
Business Development
Geologist



Raman Sawhney
Business Development
Reservoir EIT



Ian Smith
Petrophysicist
Associate



Michael Munteanu
Data Scientist
Associate



Chad Singh
Fracture Modeling Specialist
Associate



Geoff Speers
Geologist
Associate



Moslem Hosseinejad
Reservoir Engineer
Associate



Ken Nikiforuk
Completions Engineer
Associate



Mike O'Hara
Development Engineer
Associate



Amy Fox
Geomechanics Specialist
Associate



Thomas Jerome
Geomodeling Specialist
Associate



Brett Johnson
Geologist
Associate



Saad Ibrahim
Reservoir Engineer
Associate



Steve Rogers
Fracture Modeling Specialist
Associate



Oscar Scold
Geologist
Associate



Brent Thomas
PVT Specialist
Associate



Derry Eddy
Petroleum Engineer
Associate



Nestor Hernandez
Simulation Specialist
Associate



Neil Watson
Geologist
Associate

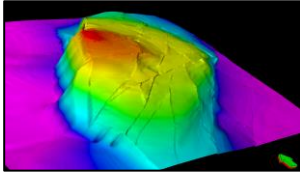


Neil Dawson
Geologist
Associate

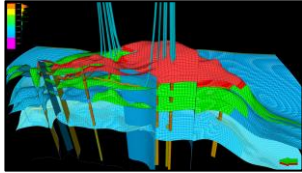


Idi Ishaya
Fracture Modeling Specialist
Associate

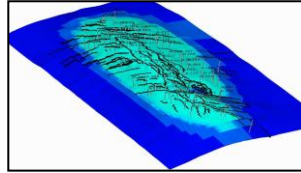
International Experience



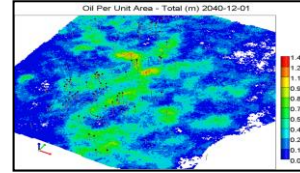
Algeria



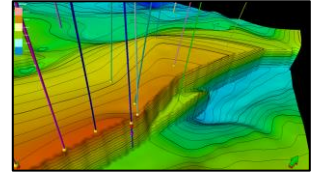
Australia



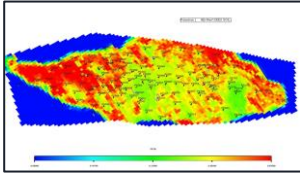
Bahrain



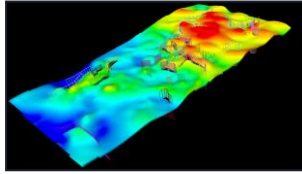
Canada



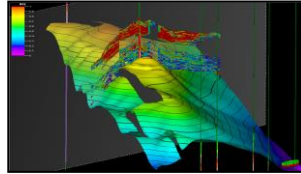
Colombia



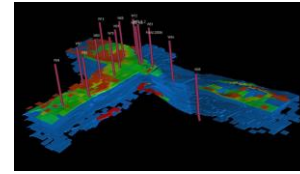
France



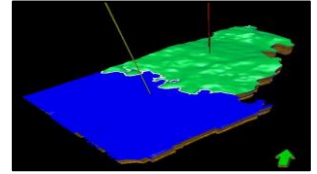
India



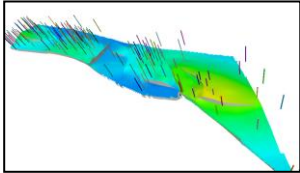
Iraq



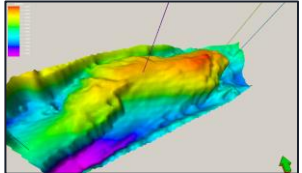
Kazakhstan



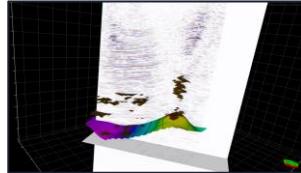
Nigeria



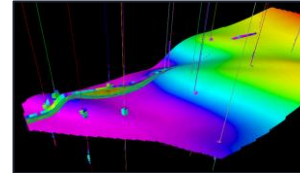
Russia



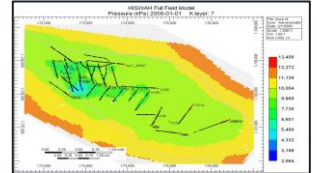
Trinidad



Turkey



USA



Yemen

Our associates have worked on world class reservoirs in over 30 different countries and the learnings can be applied to your projects

In-House Technology



Technology partners include companies with industry leading software such as Petrel, TNavigator, IMEX, GeoScout, and Geolog.



FRACMOD has invested in acquiring the most current and up-to-date versions of software in-house that is available year-round and on demand.



Models built for clients are often very large so FRACMOD has invested in significant hardware and computing power:



- Workstations with 24, 48, 64 Core Processing
- GPU Computing
- Cloud Computing with Amazon



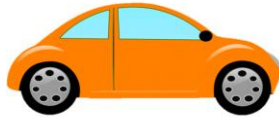
Disclaimer: FRACMOD uses technology from Paradigm, Schlumberger, Halliburton, CMG, Rock Flow Dynamics, Microsoft, and KAPPA

More Flexible Business Model

FRACTAP – Technical Team “On-Tap”

- To add value for our clients, we have built a business model to increase flexibility and access to resources
- Rather than having one FTE with a specific skillset, we offer a full multi-disciplinary team with access to technology for a comparable cost
- Allows for integrated solutions, real-time application, and shorter turn around on sub-surface modeling projects

Traditional



VS

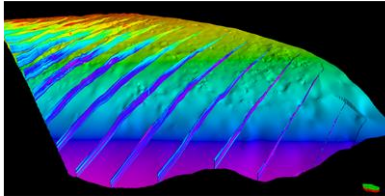
 FRACMOD



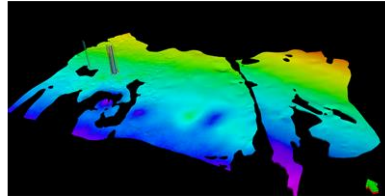
Oil Cube

- FRACMOD built a proprietary in-house tool called the Oil Cube for plays in Western Canada
- The Oil Cube is a 3D subsurface model of a play’s full depositional space, evolving the process and scale of reservoir modeling
- Process of building an Oil Cube can be replicated for any area with readily available, good quality data

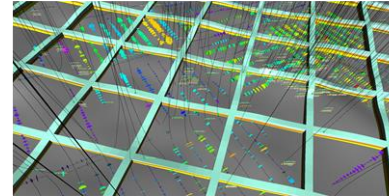
Montney



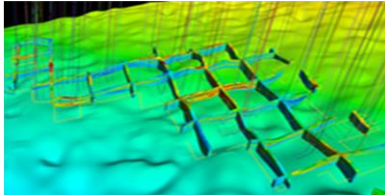
Duvernay



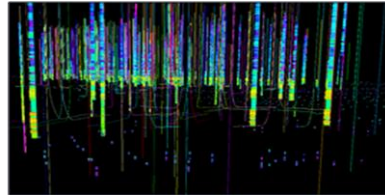
Sparky



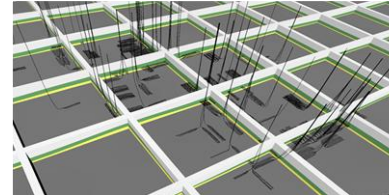
Cardium



Midale/Frobisher



Clearwater



Contact Information

Address

Bankers Hall West Tower
Suite 3000, 888-3rd Street SW
Calgary, AB T3P 5C5

Phone

General: 587-352-3727
Sales: 403-461-8698
Technical Inquires: 403-606-3727

Email

General: info@fracmod.com
Sales: raman@fracmod.com
Technical Inquires: gsawhney@fracmod.com

