

West Central AB: Glauconite

Summary

The Glauconitic is considered "one of the most important reservoir units in the Mannville" (Warters et al., 1997), and beginning in the late 70s and early 80s, much effort went into unraveling the widespread Lower Cretaceous Mannville Group stratigraphy.

The Glauconitic Hoadley area is a gas resource play based on exploiting the liquids-rich, gas-saturated sandstones deposited as a barrier bar complex. Hydrocarbons are trapped by marine shales on the northwest side and by updip traps. The bar complex extends in a southwest-northeast direction for over 150km's and is almost 30km's wide. The sand units are thick but somewhat heterogeneous. The sands typically do not produce water and yield approximately 60bbls of liquids per mmcf of gas.

A significant increase in sediment supply could also have initiated seaward progradation. An important drop in sea level resulted in the local ravinement or incision of the now exposed marine deposits.

Play Synopsis

| | |
|------------------|----------------------------------|
| Fluid | Oil, 38.1 API |
| Pay Thickness | 5m to 10m |
| Rf(Primary) | 5% |
| Fm. Temp. | 57°C |
| Active operators | Bonavista, NAL |
| Completions | Multi-stage Fracturing |
| Depth | 2065m to 2840m 's |
| Lithology | Shoreface sands/Conglomerates |
| Average Porosity | 10% |
| Water Saturation | 25% |
| Type Well EUR | 558 mboe |
| Type Well IP90 | 426 boed |

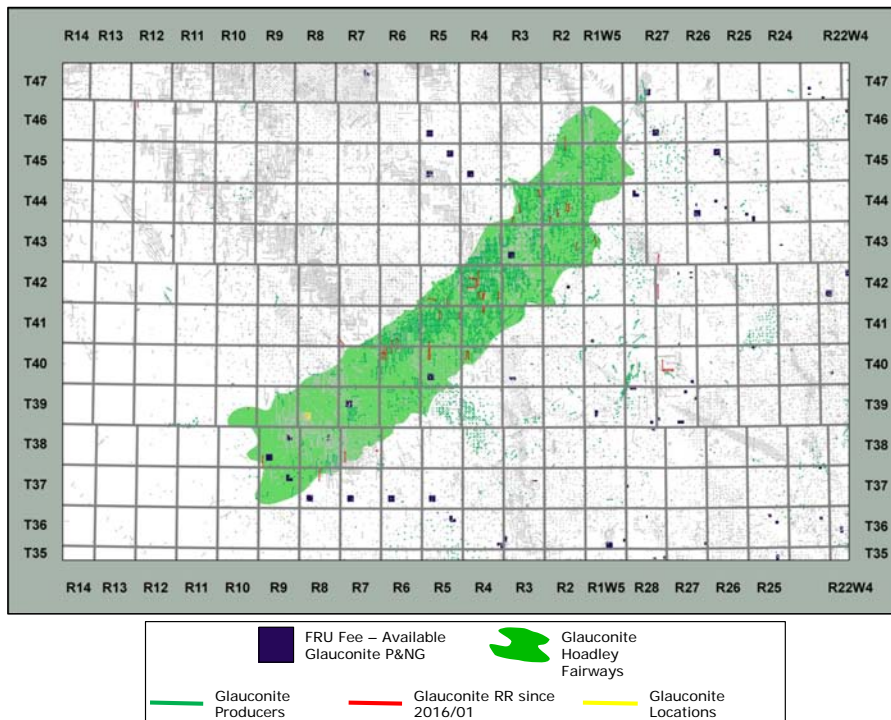
Capital Costs

DCE&T: \$2625M

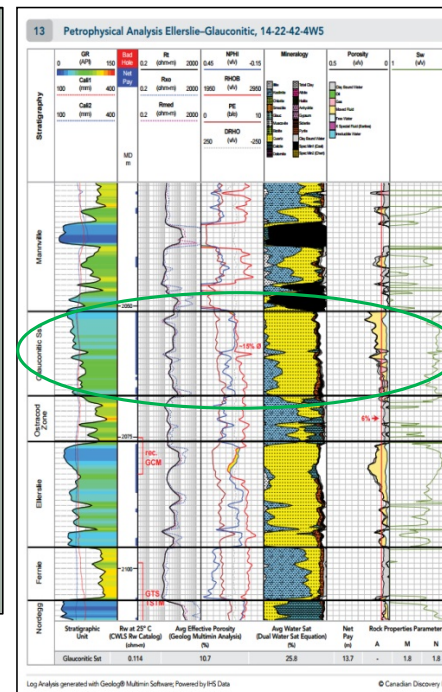
With 20% Lessor Royalty

IRR BT: 64%
Payout: 1.6 years
F&D: \$4.70/boe
Netback (IP 90): \$16.01/boe
Recycle Ratio: 3.4

Glauconite Fairway Map (Hoadley Trend)



Offset Well Log



Type Curve Analysis

