Case Study 1: Optimal Targeting using Production Allocation (PA) and Reservoir Characterization Induces (RCI)

Challenge

Operator needed quantification of vertical drainage to optimize well placement due to concern Well B1 and C1 were draining shared rock volume.

Process

- Cuttings from offset well, and separator produced oils from Pad 1 wells. were collected
- Geochemical fingerprint of oil extracted from the cuttings, and produced oils, were collected
- A regression model was built to allocate the produced oil back to its producing zone and calculate drainage frac height based on the geochemical fingerprint data

Results

- drainage though different landing depths
- Baseline RCI emphasized high perm zones in both formations B & C for optimal targeting
- Landings were optimized leading to better performance and less cross-drainage in Pad 2 wells



Changed target to high perm intervals after receiving RCI and reviewing PA



₹N Pad 2 Pad Well A Baseline