

CASE STUDY

Application: Interference assessment between Parent, Child Wells within Pad Development

CHALLENGE

Operator needed to understand the fracture interference between existing production wells (parent wells) and newly fractured infill wells (child wells)

PROCESS

- Produced oil was collected from the Parent well pre and post infill drilling to evaluate Parent, Child well interaction
- Produced oil was also collected from the infill wells
- Parent and Child Wells were analyzed for well interaction and frac hits

RESULTS

- Reviewed the impact of infill drilling to the parent well with the infill well reactivating frac adjacent to the parent which however only lasted for a few months
- Helped to identify rock volume that has not been effectively drained for future infill target
- Geochemical fingerprint data clearly separated producers completed in Zone A vs. B

PCA Analysis of Geochemical Fingerprint Data

