

## FACET

**FACET (Fluid Analysis and Composition Estimation Tool)** uses patent-pending PVT algorithms and public domain data to provide play-wide PVT properties and initial insitu fluid composition estimation for shale and tight oil plays. FACET blends PVT analysis\* with machine learning to provide accurate PVT estimates for any shale, any well and in any zone. Trained FACET models require basic inputs that are available for every well in each play.



## CONSULTING

**PVT analysis and frac optimization:** In-depth analysis for optimizing completion and operating parameters for increasing recovery and maximizing NPV.

**Shale and tight oil asset valuation:** Independent engineering-based benchmarking of operator positions and frac performance benchmarking.

**M&A support:** Asset screening, value gap analysis, engineering due-diligence, post-deal technical consulting including full field development plans.



## WHY SHALE VALUE?

### E&PS

- Detailed PVT analysis of self-sourced systems.
- Optimizing frac and well performance.
- Objective completion and acreage benchmarking.
- M&A: Deal screening and high grading to save preliminary engineering analysis time.
- Superior play-level production forecasts to support midstream strategy.
- Track competitor trends & value gaps.
- Service provider selection.

### MIDSTREAM & DOWNSTREAM

- Industry-first play level forecasts based on PVT models.
- Superior oil, gas and NGLs forecasts: Well level fluid forecasts by NGLs components and crude fractions.
- GOR, NGLs and crude quality based on reservoir engineering principles.

### INVESTMENT BANKS/ INSTITUTIONAL INVESTORS/HEDGE FUNDS/TRADERS

- Identify undervalued assets and value creating scenarios. Arbitrage opportunities by identifying NAV upside/downside.
- Engineering based benchmarking of acreage positions & completions. Identify operators' position on the completions learning-curve and potential upside.
- Estimate production and NPV upside if Company A's completion team fractured Company B's wells.
- Better estimate of remaining drilling locations consistent with commodity price deck.