LibertyMVA
(Big Data Statistics)
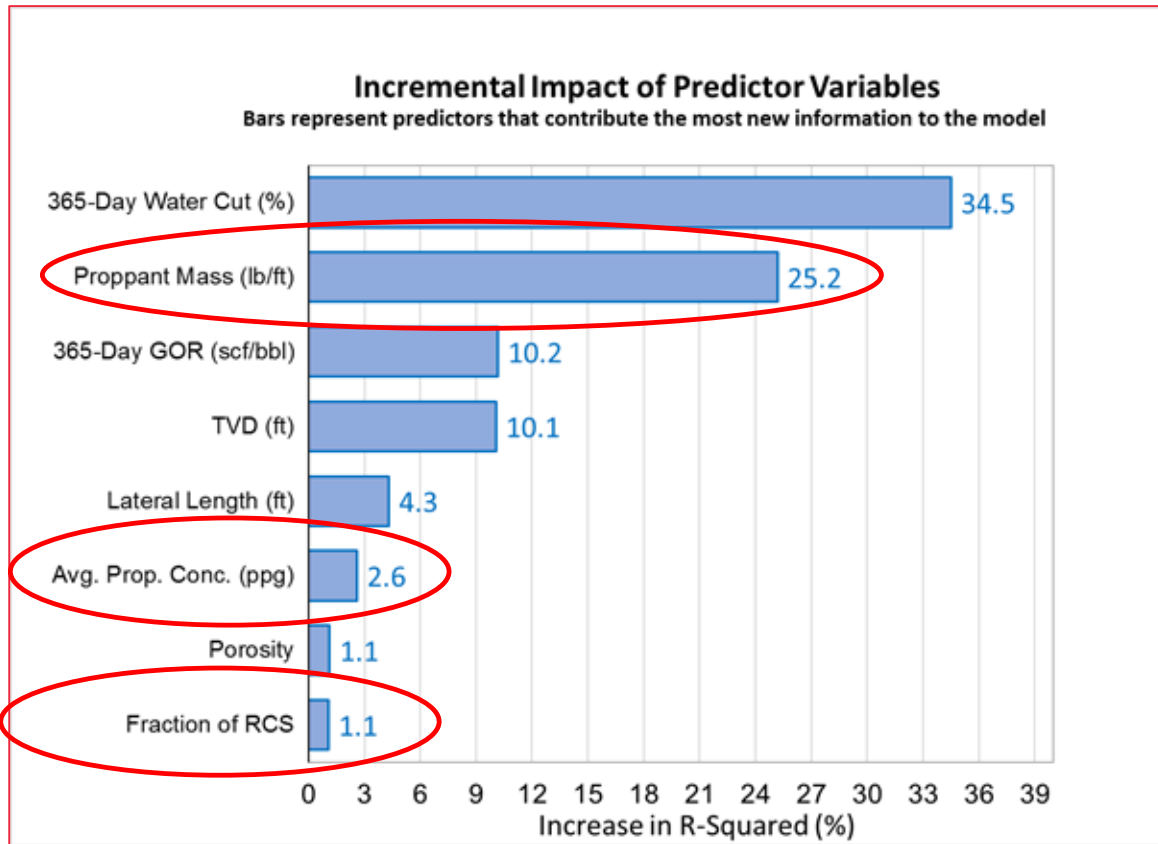
Liberty Engineering Solution
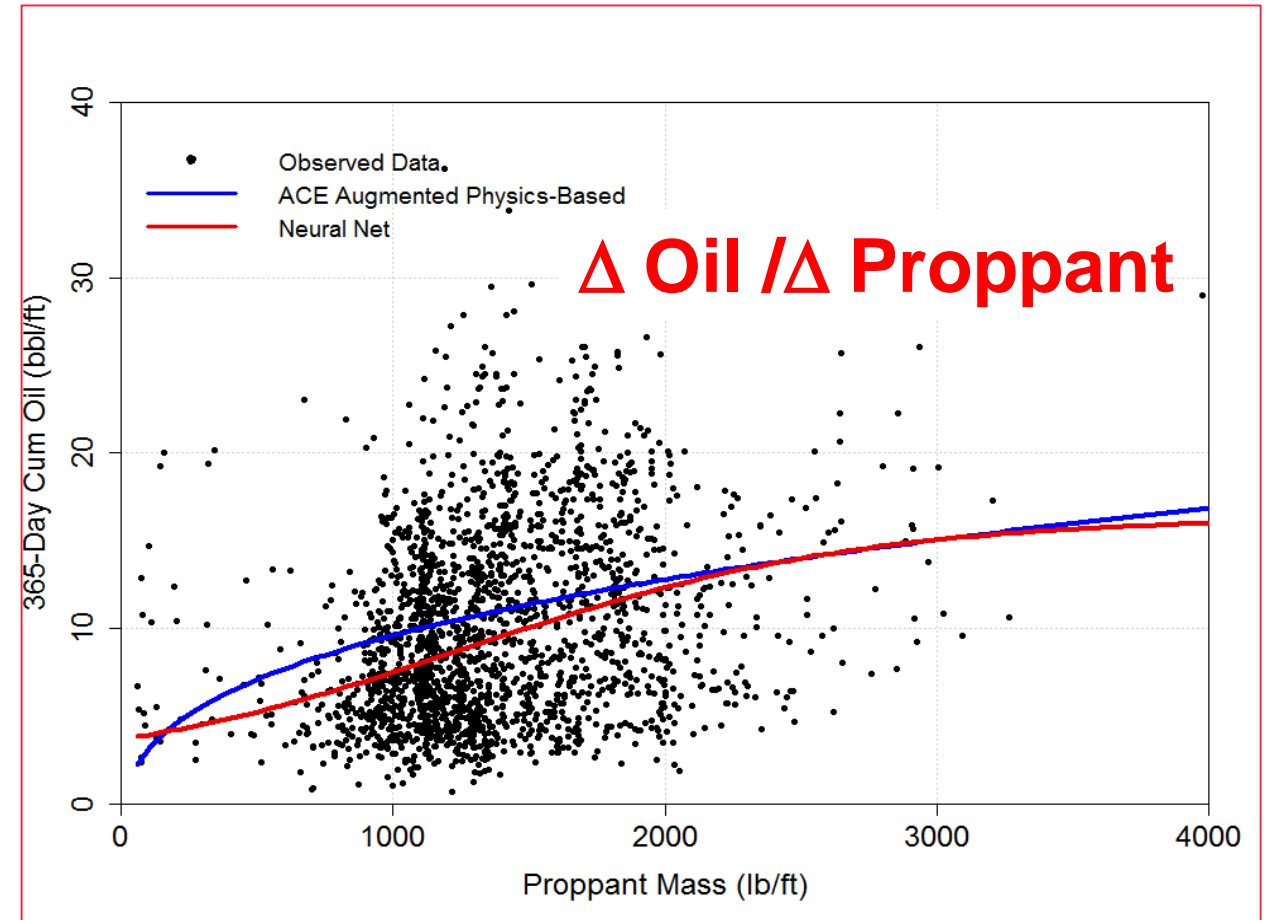
Liberty's Approach to Big Data Statistics

- Liberty has extensive completion, production and reservoir databases developed from public and proprietary data.

- Evaluate the complex relationships between well performance and completion parameters we can control and optimize.

- Liberty's statistical MVA tools:
  - Multiple linear regression including non-linear physics-based parameter transformations
  - Alternating Conditional Expectations (ACE) method (non-linear relationships)
  - Neural Networks (Data-Driven)

Value of MVA

What's Driving Production?

Quantitative Predictions!

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