



Fraconomics

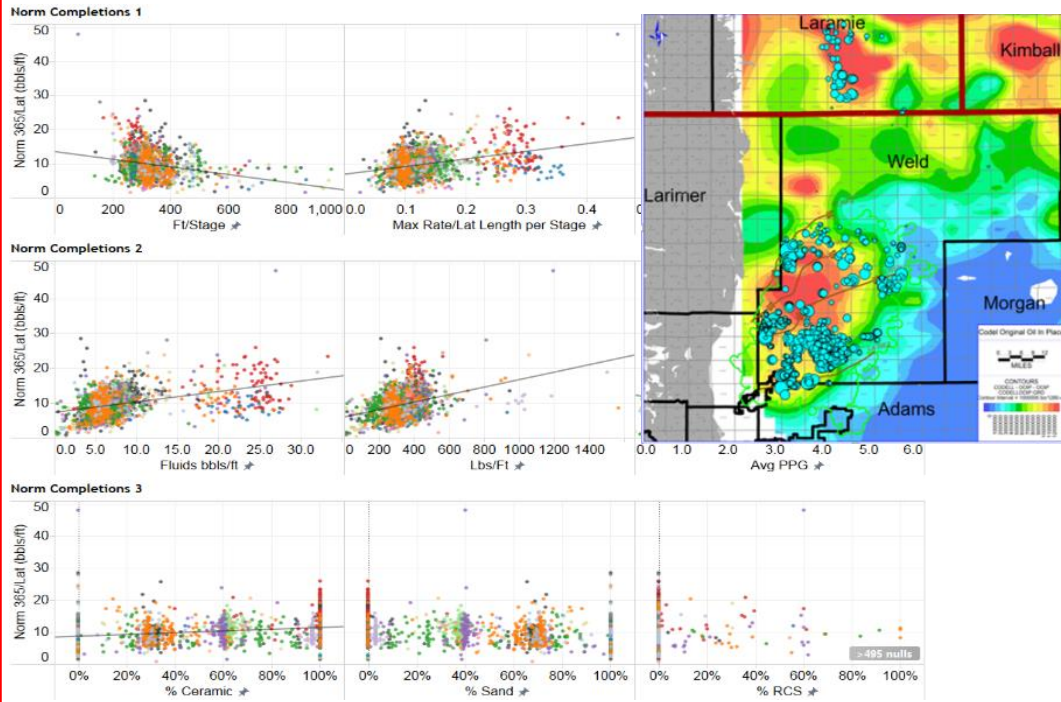
Liberty Engineering Solution



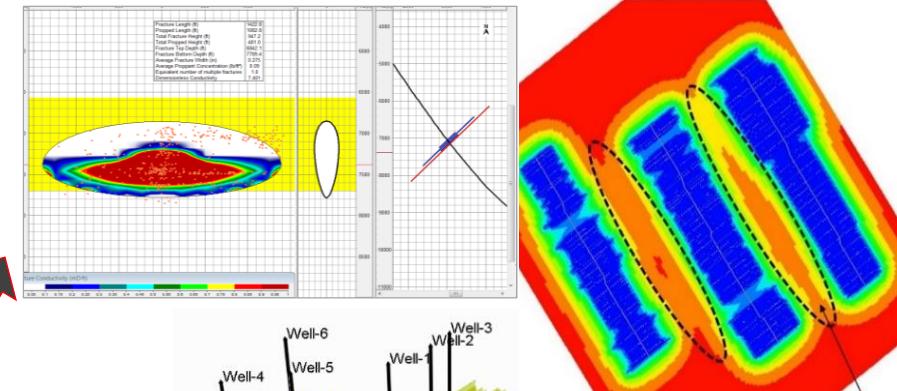
The Road to Happy Valley

Liberty's Focus on Minimizing \$/BO(E)

"Big Data" Statistics

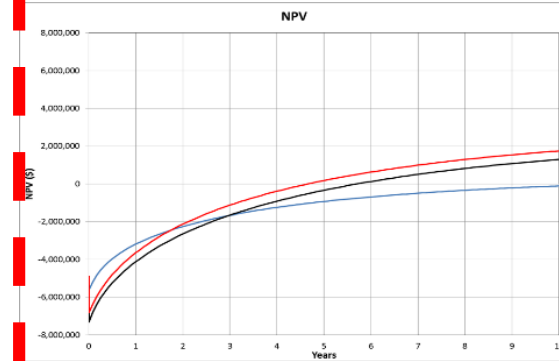


Calibrated Frac and Reservoir Model



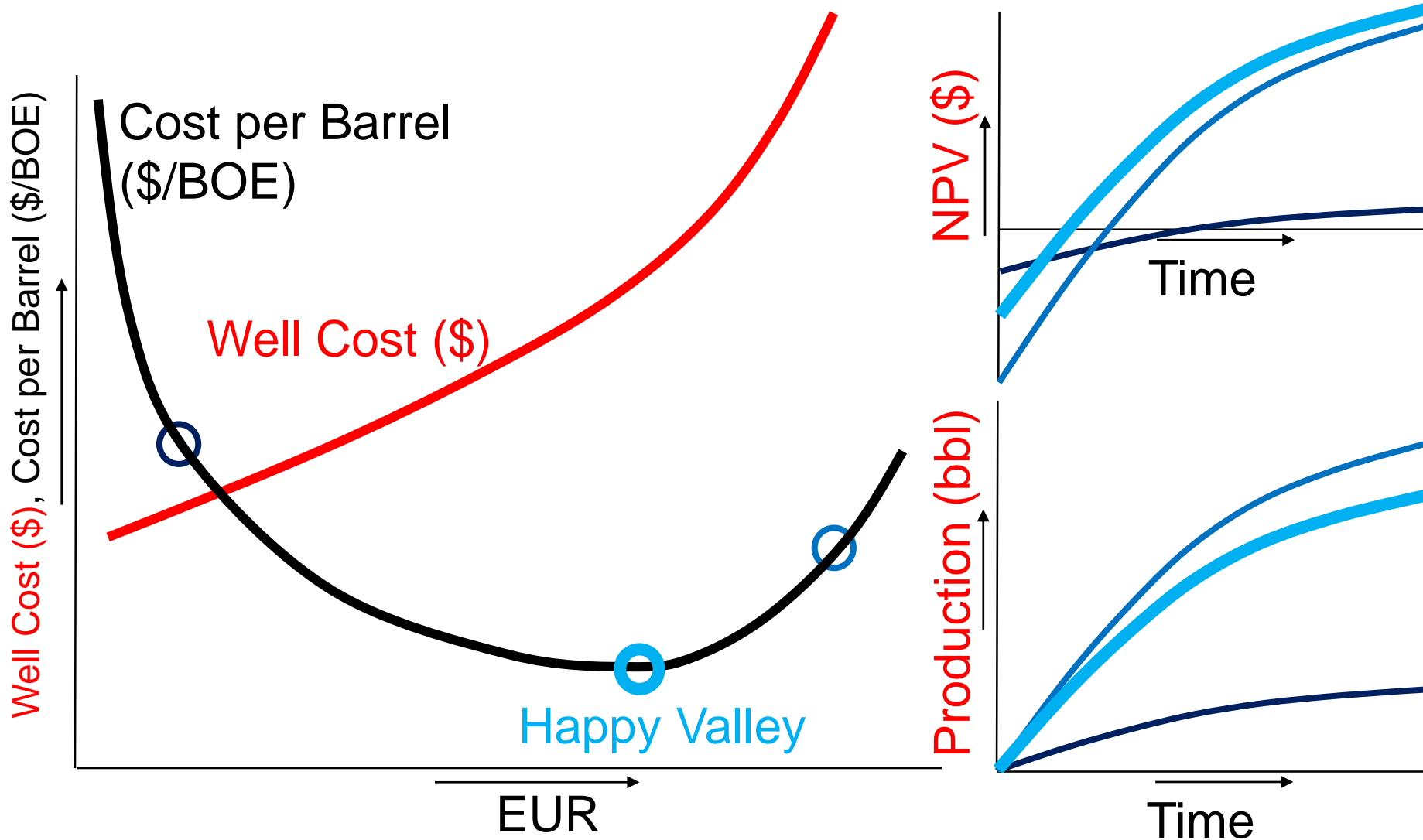
Real-Data Calibration

Production & Economics Model



The Road to Happy Valley

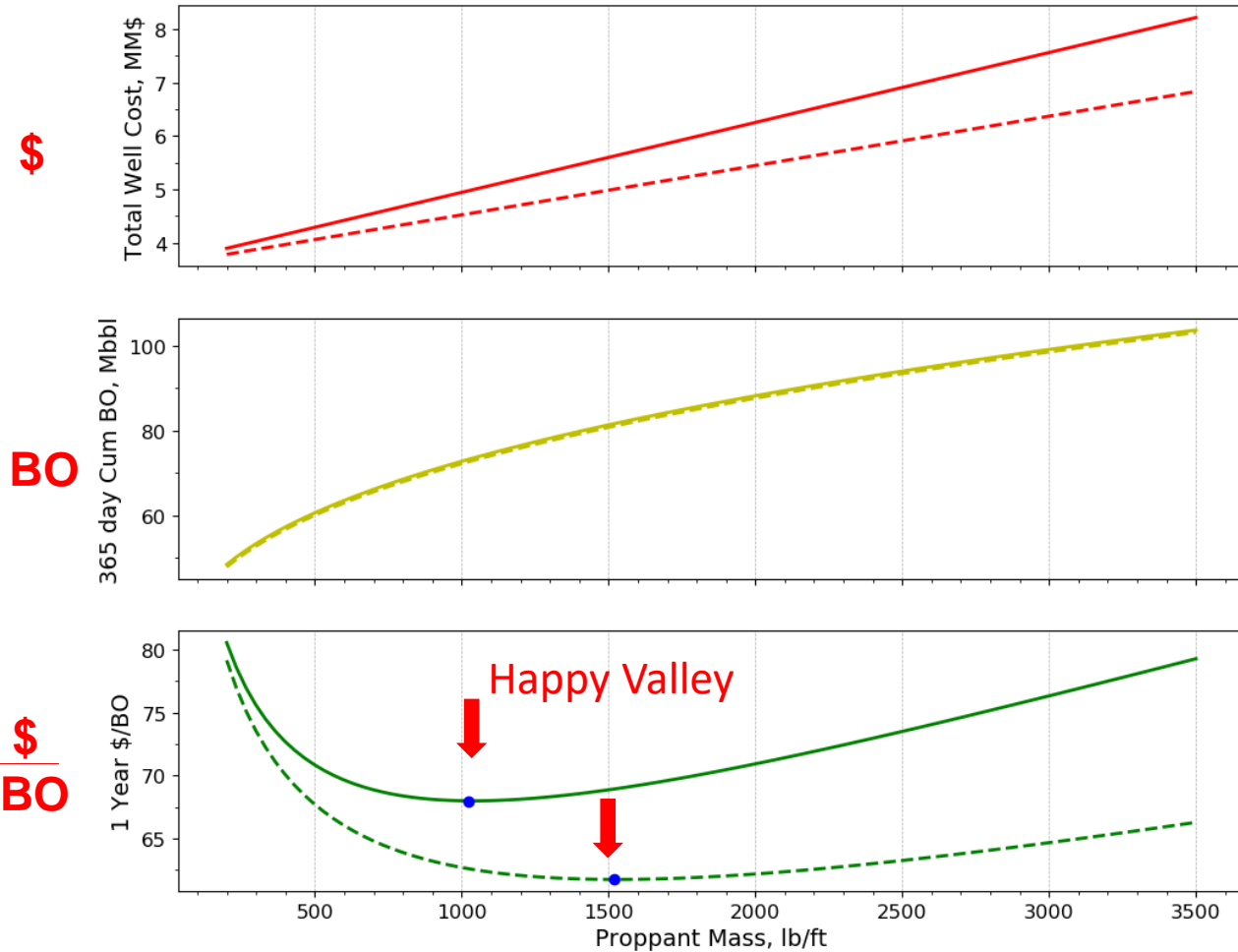
Liberty's Focus on Minimizing $\$/\text{BOE}$



Liberty Fraconomics

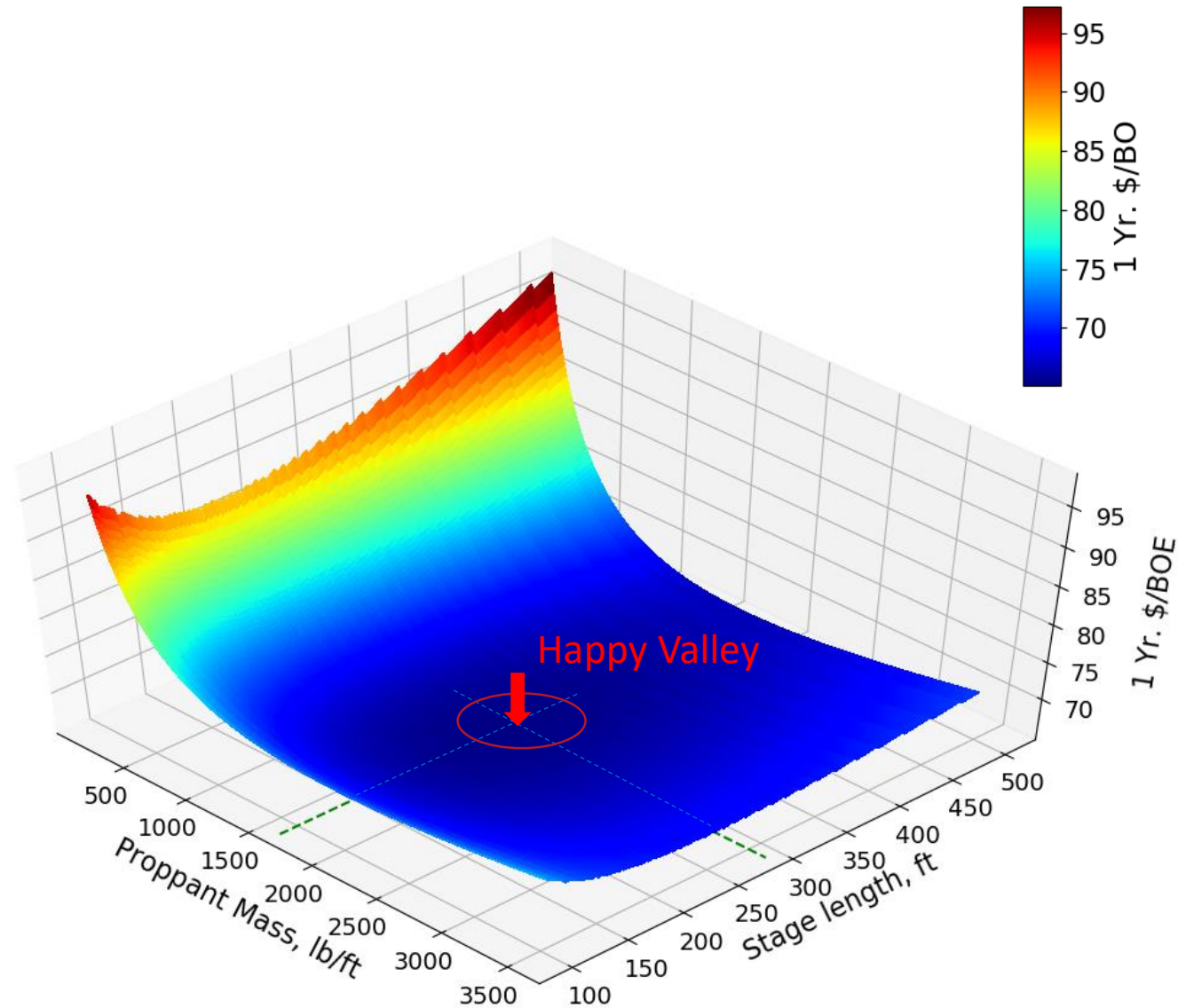
Liberty's Focus on Minimizing \$/BO(E)

Proppant Loading



Liberty Fraconomics: Minimize \$/BO(E)

- Liberty's engineering toolbox can identify primary production "levers"
- We apply price information to the levers
- Fraconomics provides a workflow to help you reduce the overall production cost on a barrel of oil





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