

Brent Biseda

W200

Monday, 4 PM Pacific Time

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Project 1 Proposal

I plan to create an economic engine that can evaluate natural gas wells. This program will input a drilling schedule from a flat file then process this file into a series of wells. These wells are generated from type wells that the well class would inherit from. The wells individually, or as an entire field can be passed to an economic engine and reporting class. The economic engine generates rate of return, PV10, and other economic indicators. The reporting class takes the economic & production output and creates a PDF & some graphs of production.

I work in the oil & gas industry and have created economic analyses of properties using excel so I am familiar with this process.

I am hoping to include some montecarlo simulation abilities so that perturbations on capital, and productivity can be modeled but this may not be as robust a feature as I am initially hoping.