

Activity Overview of the STACK and SCOOP with an Economic Evaluation Based on Modern Completion Methods

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ABSTRACT

In unconventional plays such as the STACK and SCOOP, there are many different geological, geophysical, and engineering parameters that drive production. In most every unconventional play, we see year over year improvement in production as operators evolve with completion methods and well placement.

In this study, we will look at key trends in the STACK and SCOOP including leasing, permitting, and drilling. We also will analyze key correlations to production in both plays. Parameters such as depth, oil gravity, lateral length, proppant, and heel-toe differential will be analyzed.

Well economics will be analyzed. We will observe type curves in certain areas of the play by formation which are normalized to modern completion methods. By calculating EUR's and comparing to reported CAPEX costs, we can get a better understanding of breakeven prices by area. We will also observe single-well price sensitivities such as CAPEX, commodity price, EUR's, and operating expenses to see how each effect the expected rate of return.

Finally, we can compare the economics of the SCOOP and STACK to other key unconventional plays. This will include a look at recent A&D activity and the cost of getting into a play.