**TAMU Capstone Project Sponsored by ConocoPhillips**

**Project Title:**

Optimizing Well Performance Based on Completion Design

**Data Source and Data Type:**

Excel Spreadsheet

**Project Objectives:**

* Determine if correlations exist between completion type and production
* Determine if correlations exist between frac design and production
* Observe differences between formations
* Determine if a “sweet spot” exists in the basin
* Make a recommendation based on the observations above on the development of a hypothetical new drill project including where to drill, what formations to target and the completions design

**Suggested Methods/Techniques to be used:**

* Clean data set checking for outliers and errors
* Import into analysis software
* Visualize data to draw trends supporting the objectives above

**Learning Outcomes:**

* **Well Data Proficiency:** Gain an understanding of operational well and production data and how it impacts well performance and production.
* **Data Best Practices**: Understand well and production data best practices and be able to draw conclusions and provide recommendations.
* **Data Analytics**: Use commercial, industry leading tools to perform the analysis and gain insight into determining the best course of action.
* **Work Collaboratively**: Work effectively with other team members to analyze different points of view, and to deliver a consolidated recommendation.
* **Technical Writing**: Deliver a comprehensive, organized technical report that clearly articulates the problem, the approach, options considered, and provides a specific recommendation.