

Andrea Benavides

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Education

TEXAS A&M UNIVERSITY | COLLEGE STATION, TX

MAY 2020

Bachelor of Science in Petroleum Engineering; Major GPA: 3.961 Cum GPA: 3.925

Industry Work Experience

APACHE CORPORATION | MIDLAND, TX

SUMMER 2019

Reservoir Engineering Intern – New Mexico Delaware Basin

- Declined 2nd Bone Spring Sand wells in Aries to estimate EURs and understand the impact of reservoir and completion parameters on initial rates and decline factors using public production data and maps provided by geologists and geophysicists.
- Performed a sensitivity analysis based on porosity and net reservoir maps to provide a low, most likely, and high estimate for new well production rates for each section. Previous analysis had used only a single type well.
- Helped improve the understanding of potential acreage value by making section specific type curves based on reservoir changes and running economics on those developments. This showed a value increase of 50% above previous type well estimates for sections in plan.
- Worked with the geologists in evaluating 64 analog wells to determine the key drivers in a new development area for the 1st Bone Spring Sand. This was accomplished by declining the oil and secondary rates and comparing the EUR/1000' to various parameters such as completion size, net reservoir, phiH, gross thickness, development spacing and order, TVD, and water saturation.
- Developed a forecast for Apache's acreage based on the key parameters found in the evaluation, ran economics, and presented the development plans to management for the wells to be drilled in 2020.

APACHE CORPORATION | ANDREWS, TX

SUMMER 2018

Petroleum Engineering Field Internship

- Shot fluid levels, analyzed them, and determined if adjustments needed to be done on the POC such as changing the pump fillage setpoint or down time to reduce equipment damage in the future.
- Examined pump cards, run time, and watercut to recreate updated Rodstar designs for problematic wells and compared ideal production to actual production to determine efficiency of wells.
- Assisted pumper with his route of 50 wells. This entailed checking for leaks in stuffing boxes, maintenance of valves, and correcting POC settings as well as gathering and inputting production data.

Other Work Experience/ Leadership

ACADEMIC SUCCESS CENTER, TEXAS A&M | COLLEGE STATION, TX

AUG 2017-FEB 2018

Supplemental Instructor – Introduction to Engineering

- Led one-hour classes three times a week to over 100 people to emphasize on troublesome topics.
- Planned accompanying worksheets for students to work on during lessons.

Activities & Skills

ACTIVITIES

- Active member of SPE and Women in Engineering
- Spent summer abroad in Germany attending a “speaking school”

SKILLS

- Familiar with various programs -Aries, IHS Harmony, Spotfire, Kingdom, Avocet, Wellview, Rodstar.