Hector Villanueva

SENIOR DRILLING ENGINEER

San Antonio, TX (210) 555-0156 hector.villanueva@email.com linkedin.com/in/hectorvillanueva

SUMMARY

Senior drilling engineer with 9 years in Eagle Ford and Austin Chalk drilling engineering, leading well design for a 2-rig program and cutting cost per foot through managed pressure drilling and hydraulics modeling. Mentors junior engineers and owns drilling cost control from AFE to final well report.

SKILLS

Drilling Engineering • Well Design • Casing Design • Hydraulics Modeling • Managed Pressure Drilling • Well Control
Drilling Cost Control • WellView • Microsoft Excel • Mentoring

EXPERIENCE

Senior Drilling Engineer 06/2022 - Present

Sabinal Creek Energy San Antonio, TX

Private operator developing 85,000 net acres in the Eagle Ford and Austin Chalk.

- Lead well design and casing design for a 2-rig program drilling **45** wells a year.
- Introduced managed pressure drilling on 18 Austin Chalk wells, cutting fluid losses 60% and saving $3.4M.
- Mentor 3 drilling engineers on hydraulics modeling, torque and drag and well control planning.
- Own drilling cost control in WellView and Microsoft Excel, holding wells 6% under AFE for 2 years.

Drilling Engineer 03/2019 - 05/2022

Atascosa Petroleum San Antonio, TX

Eagle Ford operator running 1-3 rigs depending on the capital plan.

- Designed **90** horizontal wells with laterals up to 12,500 feet and no casing failures.
- Reduced days on location from 16 to 10.5 by testing 6 bit and motor combinations.
- Wrote well control bridging documents with 3 contractors and ran 12 rig crew drills.
- Audited daily reports and invoices, recovering $420K in incorrect service charges.

MWD Field Engineer 06/2017 - 02/2019

Lone Oak Directional Services Pleasanton, TX

Directional drilling contractor serving South Texas operators.

- Ran MWD and directional tools on **70** wells across 5 operators in South Texas.
- Calculated survey corrections and steered laterals within a 10-foot target window.
- Delivered end-of-well data packages to clients within 24 hours of TD.

EDUCATION

Bachelor of Science 05/2017

University of Texas at San Antonio San Antonio, TX

Mechanical Engineering

CERTIFICATES

Professional Engineer (PE) 09/2022

Texas Board of Professional Engineers and Land Surveyors

IADC WellSharp Supervisor Level 02/2025

International Association of Drilling Contractors