Dan Beeler

Managing Forensic Expert – Accident Reconstruction

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EDUCATION

Texas Tech University: Lubbock, Texas

Bachelor of Science in Mechanical Engineering / Minor in Mathematics, May 2015

PROFESSIONAL CERTIFICATIONS

Accreditation Commission for Traffic Accident Reconstruction (ACTAR) #4549

Federal Aviation Administration Remote Pilot SUAS Certification

Crash Data Retrieval (CDR) Technician, March 2023

Axon Investigate – Operator Certification

WORK EXPERIENCE

Current — **Aperture Companies, LLC (formerly Scientific Analysis, Incorporated)**

Accident Reconstructionist

- Perform investigation, reconstruction, and analysis of both passenger and commercial vehicle accidents through the use of scientific processes
- Accident scene and vehicle inspection, photography, EDR downloads, and measurements
- Production of trial and testimony aids such as accident scene diagrams, maps, reconstruction exhibits, and reports
- Deposition and trial testimony

July 2015 – August 2018 — **Occidental Petroleum Corporation**

Drilling Engineer

- Wrote drilling procedures and oversaw drilling operations for dozens of Midland Basin 7,500'-10,000' horizontal wells in the Spraberry and Wolfcamp formations
- Wrote drilling procedure for Oxy's first 12,500' horizontal wells in the Permian Basin
- Performed engineering studies and led efforts to implement casing floatation in long laterals in the Permian Basin to help reduce drag while running casing
- Designed BHA to deepen vertical wells while holding inclination, without the need for a bent motor
- Directed drilling operations and supervised third party contractors in a safe, efficient manner while working as Drill Site Manager in the Permian Basin
- Implemented drilling engineering solutions that resulted in multiple wells being drilled 20% under AFE (authorization for expenditure)

NOT FOR EXPERT DESIGNATION

- Optimized bit/motor combination in the curve section to eliminate the need for a vertical BHA prior to drilling the curve – approximately 20 hours / $100,000 savings per well
- Collaborated with drill bit vendors to design a bit with a success rate over 90% of drilling one-run 10,000' lateral sections without failure
- Provided a parameter guideline to directional drillers that resulted in a 66 hour 10,000' lateral section with a conventional mud motor, including a 3500' section without sliding

May 2014 – August 2014 **EOG Resources**

Drilling Engineer Intern

- Analyzed the financial and technical benefits of a two-string casing design over a previously used three-string design in west Texas oil wells in the Leonard Shale
- Wrote an AFE for proposed design of more than $2.1 million
- Observed the implementation of proposed design, including rig time and performance analysis
- Attended daily drilling meetings and worked closely with engineers to create a drilling program for a casing elimination project, resulting in savings of more than $450,000 and six days per well

May 2014 – August 2014 **Delta Country Club: Board of Directors**

Co-Golf Course Director

- Assist with decisions involving the club finances, land, and purchases
- Responsible for all decisions involving golf course
- Relay information from Members to Directors

SPECIALIZED TRAINING

Axon Investigate – Operator Course, October 2025 – Axon

Advanced Photogrammetry for Accident Reconstruction, March 2025 - Photomodeler/Aperture LLC

Human Factors in Traffic Crash Reconstruction, October 2024 - Institute of Police Technology and Management (IPTM)

Fundamentals of Vehicle Dynamics, October 2023 - Society of Automotive Engineers (SAE)

Bosch Crash Data Retrieval (CDR) Tool Operator/Technician, March 2023 - Get EDR Data

Traffic Crash Investigation 1, May 2022 - Northwestern University Center for Public Safety

Traffic Crash Investigation 2, July 2022 - Northwestern University Center for Public Safety

Simon, Advanced HVE: Pt I, March 2021 - HVE Forum 2021

Event Data Retrieval Systems Training, September 2019 - Scientific Analysis, Inc.

AFFILLIATIONS & HONORS

Texas Department of Public Safety Licensed Private Investigator

Arkansas Credentialed Private Investigator

2015 Recipient of the McCauley Distinguished Engineering Student Award – Texas Tech University College of Engineering

Pi Tau Sigma - Honorary Mechanical Engineering Fraternity

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