

M.S. – Geology, University of Wyoming, Laramie, WY 2008-2011

Thesis: Structural Geology of the Southern Margin of the Baker Terrane: Implications for the Tectonic Evolution of the Blue Mountains Province, Northeast Oregon

B.A. – Geology, Colorado College, Colorado Springs, CO 2003-2007

TED STARNES
Geologist

PROFESSIONAL PROFILE

Well-rounded geologist with a decade of experience in the mining and oil and gas industries and a background in hard rock geology and mapping. Extensive history of working in multidisciplinary teams in a variety of geologic settings at the surface and in the sub-surface, from the Archean to the Cretaceous.

Currently engaged as an ore control geologist at Red Dog mine, one of the world's largest Zn – Pb deposits.

Highly motivated, flexible team player with expertise in:

- O&G Operations support and geosteering
- Geologic mapping and identification of sedimentary, igneous, and metamorphic rocks and structures in the sub-surface and in the field
- Integration of geologic data in decision making
- North Slope oil field geology
- Project execution

SOFTWARE PROFICIENCY | Microsoft Office, O&G software packages, ESRI ArcGIS

PROFESSIONAL EXPERIENCE

Ore Control Geologist – Red Dog Mine, NW Arctic Borough, AK

Teck Resources, 2021 – Present

- Ore control, stockpile design, haulage planning, and short range planning
- Day to day operational problem solving as part of an integrated multi-disciplinary team

Alpine Area Geologist, Anchorage, AK

ConocoPhillips, May 2020 – March 2021

- Updated mapping and volumes for the Jurassic Nechelik sandstone to provide a range of resource estimates.
- Identified perforation locations for incremental rate addition in development wells.

Greater Kuparuk Area , Anchorage, AK

ConocoPhillips, Dec 2018 – May 2020

- Completed well planning and operations for development/appraisal wells accessing peripheral targets in the Kuparuk River Field, a mature, highly compartmentalized, conventional enhanced oil recovery field on water and gas injection.
- Contributed significant cost savings through real-time decisions and achieved geologic objectives and higher than expected rate performance as operations geologist for six rotary horizontal wells targeting Kuparuk A and C Sands.

Kuparuk Coiled Tubing Drilling Geologist, Anchorage, AK

ConocoPhillips, Apr 2013 – Dec 2018

- Identified, justified, and executed a previously unmapped drilling target in the Kuparuk A-Sands, resulting in 2.46 MMBBL STOOIP incremental resource add.
- Supported well planning, due diligence, and operations for CTD development projects targeting increased recovery from underdeveloped patterns within the Kuparuk River and Alpine Fields.
- Identified, planned and executed 30+ multi-lateral CTD projects with a team of geophysicists, petroleum and drilling engineers, and well planning contractors.

Operations Geologist- Eagle Ford Development, Houston, TX

ConocoPhillips, Dec 2011 – Mar 2013

- Landed and geosteered 18 horizontal wells while facilitating all project communications between drilling engineers, development geologists, rig foreman, directional drillers, mud loggers, MWD/LWD engineers, and land personnel.
- Interpreted MWD/LWD and mud logger data to support drilling engineers, geologists, rig foreman, and directional drillers to land and maintain horizontal well bores in a target zone in the Eagle Ford Formation of west Texas.

Geoscience Intern- Nigeria Non-operated Development, Houston, TX

ConocoPhillips, Jan 2011 – Apr 2011

- Evaluated a proposed well in the Niger Delta, Nigeria.
- Integrated regional analysis of the Niger Delta, including: log correlations, contact evaluation, petrophysics, well ties, seismic interpretation, depth conversion, mapping, volumetrics, and economic merits to sell the well, adding 5 MMBO of reserves within a mature oilfield.

Senior Laboratory Technician / Field, St. Paul, MN

Minnesota Geological Survey, Jun 2007 – Jun 2008

- Co-authored a 1:24,000 scale bedrock geologic map of an Archean volcanogenic sequence in the granite- greenstone terrane of northeast MN, Minnesota Geological Survey M-193 Bedrock Geology of the Cavity Lake Fire Area, Boundary Waters Canoe Area Wilderness, Northeastern Minnesota; mapped Cambrian sheet sandstones for the Chisago County bedrock geologic map.
- Described glacial materials from Giddings Probe drilling and sampling for Carlton County surface map; assisted in logging and sampling core for CO2 sequestration prospects.
- Ran gamma, multi-tool, and caliper geophysical information tools for County Atlas maps and Minnesota Department of Health to supplement MGS well database.
- Digitized geologic maps and well locations, and organized logistics for 30+ days of field mapping in the Boundary Waters Canoe Area Wilderness with MGS geologist Mark Jirsa.

PUBLICATIONS

Jirsa, Mark, A; Starns, Edward, C; Schmitz, Mark, D. (2017). M-193 Bedrock Geology of the Cavity Lake Fire Area, Boundary Waters Canoe Area Wilderness, Northeastern Minnesota. Minnesota Geological Survey. Retrieved from the University of Minnesota Digital Conservancy, <http://hdl.handle.net/11299/194191>.

Starns, E.C., 2011, Structural Evolution of the Southern Margin of the Baker Terrane, Blue Mountains Province, Northeast Oregon [M.S. thesis]: Laramie, Wyoming, University of Wyoming, 112 p.