

EDWARD O'SHEA

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Education

Colorado School of Mines, Golden CO
Major: Engineering – Petroleum Engineering

B.S. May 2015

Technical Skills

Computer: Windows, Mac, Excel, Visual Basic, Word, PowerPoint, Outlook, Techlog, Gohfer, Saphir, CMG, SGeMS, Surfer, MatLab, Solid Works, FreeCAD.

Relevant Skills: Fluid properties and mechanics, well testing, PVT analysis, pressure transient analysis, logging, drilling, reservoir production forecasting, OOIP/OGIP calculations, economic analysis, EOR, sedimentology, stratigraphy.

Laboratory: Technical writing in adsorption, capillary pressure, flash separating, porosity, permeability, Klinkenberg effect, gas metering, etc.

International: Dual citizenship US/Ireland; current passport, intermediate Spanish

Mechanical: Computer hardware (custom assemblage)

Engineering Team Project Experience

Senior Design Project - Lease Acquisition Evaluation and Field Development Plan for Niobrara and D-Sandstone in Weld County, CO.

- Multidisciplinary team project integrating geological, geochemical, geophysical, petrophysical, drilling, reservoir production, and resource engineering analyses.
- Estimation of OOIP/OGIP and economic assessment for each lease.
- Lease development report presented to panel of judges from the industry.
- Personal contribution: Ran simulation models of hydraulic fracturing using Gohfer software to determine optimal stimulation fluid design. Research of pertinent geology to targeted formations and assessment of risk associated to the project.

Intro to Energy - Geothermal Energy

- Team research project evaluating the feasibility of geothermal energy. Four main aspects for evaluation were economics, environmental, technology, and political/social impact.
- Personal contribution: Researched the technological and economic feasibility of geothermal, compared to other sources of energy.

Epics II Project - Moon Lander on Mars' Moon Phobos

- Team project considering a subsystem and material cost analysis of carrying out a manned exploration of Mar's moon Phobos.
- Costs of materials were determined through designs created in Solid Works software.
- Design required to accommodate the specific conditions and needs of the mission.
- Project plan and final design report presented to panel of judges from the industry.

Epics I Project - Optimal Wind Turbine

- Team project with the goal of determining the best wind turbine design to implement at a local car wash.
- Wind data was analyzed from internet resources to evaluate the economic feasibility of different wind turbines.

Employment

Belford Properties
Construction & Demolition Employee

Alameda, CA
Summers 2005 - 2009

- Property restoration involving various types of manual labor.
- Framing walls to city code, repairing household utility fixtures and dirt removal.

Interests / Activities

General: Outdoors, Camping, Fishing, Hiking, Guitar, Golf, Football, Snowboarding, Running, Tennis, Sailing, Computers.