

EDUCATION

Colorado School of Mines (CSM) B.S. Petroleum Engineering
Santa Monica College (SMC) A.A. General Science

Grad: May 2009
Grad: Dec 2005

Fluent in **English, French** and moderate **Spanish**

ENGINEERING EXPERIENCE

Hess Corporation

Sr. Production Engineer

Dec 2012 – Present

- **Offshore America West Africa (OAWA) Team, Houston, TX**

- **Ceiba Subsea Field, Offshore Equatorial Guinee (EG)**

- Perform individual **well surveillance and trend analysis** (PI ProcessBook software).
- Technical support for **well operating guideline, Cluster performance and optimization.**
- In charge of data gathering plan and responsible for **well test validation and production allocation.**
- Lead weekly **short term production optimization meeting** between Reservoir team, Operation team and FPSO supervisor.
- Perform **Nodal Analysis** for individual wells for field optimization and modeling (Prosper software).
- **Artificial lift** optimization: Flow line **gas lift** and **subsea pump.**
- Generate monthly **production forecast** incorporating recent well performance, planned field downtime events, potential oil opportunities and operational risks.
- Generate 2 years production forecast for annual budget process.
- Routinely make technical presentation, production update and variance report to management, working interest partners and members of the EG government. (Microsoft office software).

- **Shenzi Subsea Field, Gulf of Mexico (USA, BHP Billiton operated field)**

Jan 2015 – Present

- **Partner relationship** and weekly communication with operator BHP Billiton operating team
- **Field performance surveillance and production optimization** recommendation analysis
- **Well test review** and analysis
- Short term production **forecast** and budget review **production profile**
- Participate in partner **Technical Committee meeting**

Reservoir Engineer

Jul 2010 – Dec 2012

- **Permian Basin Subsurface Team, Houston, TX**

- **Seminole San Andres Unit (SSAU), West Texas**

- Technical support for **reservoir management, pattern reviews and injection surveillance.**
- Provided support to operation team on well intervention and possible **optimization opportunities.**
- Lead the **CO2 injection optimization project:** Selected potential CO2 saving opportunities in the main pay zone (MPZ) and modified patterns **WAG injection cycle length.** Worked with Commercial group to reassess the need for **market C02 contracts.** Reevaluated and recommended downsizing drilling campaign at West bravo dome (WBD) C02 field for capital saving. Generated a monthly update and progress report for management.
- Worked with field engineers and technicians to establish a **surveillance plan and response workflow** aiming at monitoring potential risk of oil losses due to WAG cycle modification.
- Lead engineer for the yearly **reserves booking and classification.** Prepared supporting documents for capital expenditure request during the company budget and plan cycle.
- Ran **cash flow performance and economic analysis** on all projects related to the asset (PEEP software)
- Mentored one early career engineer during his 4 months rotation through the team.

Hess Corporation Foundation Program (Early career Rotation \ Training Program)

Jul 2009 - Jun 2010

- **West Africa Drilling and Completion Team, Houston, TX** Mar 2010 - Jun 2010
 - **Okume Complex, Offshore Equatorial Guinea**
 - **Disposal Project:** Project consisted in evaluating several options to safely and environmentally dispose excess fracturing chemicals from the 2007 drilling campaign in EG. Final recommendation was to utilize an inactive injector as a disposal well by mixing the chemicals with recycled formation injection water. Worked with the operation team on well integrity analysis, coordinated with Baker for chemical mixture testing to minimize potential reservoir damages. Supervised the execution of the project. Assignment involved collaborating and effectively working with several in house experts, contractors and Environmental Health and Safety (EHS) personnel to safely and successfully complete this project.
 - **Offshore drilling experience:** witnessed drilling activities on a leg jack up Atwood Beacon and Semisubmersible tender assist Atwood Seahawk during 1 month rotation in Equatorial Guinea.

- **Offshore Gulf of Mexico Operation and Production Team, Houston, TX** Nov 2009 - Feb 2010
 - **GB 260 Baldpate Platform, US offshore**
 - **Platform Therminol Tank fire repair:** was involved in the onboarding process of contractors and participated in pre- job safety meeting with contractors and platform personnel. Was the engineer on site for the execution of the repair. Participated in the Lock out Tag out (LOTO) procedure planning and execution. Monitored dew point in gas sales line to manage risk of hydrate formation (methanol injection). Insured that contracted personnel on site followed Hess' safety rules and regulations.
 - **Baldpate Platform GB 260 modeling:** Built an integrated IPM model of the platform from reservoirs to top side separators. Model included dry and wet trees. (Prosper, MBAL and GAP software).
 - **Platform Hand rail installation:** Project was implemented after numeral near misses accidents at the helicopter deck level. Interviewed platform personnel on near missed incidents and wrote the memorandum of change (MOC) on helicopter landing and take off to insure proper use of the device and reduce risk of accident occurrence to platform personnel.

- **Permian Basin Subsurface Team, Houston, TX** Jul 2009 - Oct 2009
 - **Seminole San Andres Unit (SSAU), West Texas**
 - **Mature Waterflood Area Forecasting:** Generated injection and production profile using WOR vs. Cum Liquid methodology and compared results to previously used methodology of dimensionless waterflood forecasting. Provided recommendation for reserve booking and budget cycle.
 - **Salt water disposal (SWD) project:** Provided supporting data for the addition of one SWD well at SSAU based on future field development strategy and at the time water disposal capacity of the field.

Reservoir Engineer Intern

- **Permian Basin Subsurface, Houston, TX** Jun 2008 - Aug 2008
 - **Seminole San Andres Unit (SSAU), West Texas**
 - Designed a waterflood redevelopment plan from 160-acre injection pattern geometry to an 80-acre 9 spot inverted pattern configuration.
 - Obtained a drilling proposal for infill drilling (83 wells) and workover operations for the area.
 - Generated an injection and production forecast for waterflood Area 5 (98 wells) of SSAU to be used for the company business plan and reserve booking.