

# IBIENE C. OBUOFORIBO, P.Eng.

## SENIOR RESERVOIR ENGINEER

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Calgary, AB

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### TECHNICAL SKILLS

- NUMERICAL SIMULATION
- RATE TRANSIENT ANALYSIS
- PRESSURE TRANSIENT ANALYSIS, DFITS
- COMPLETION DESIGN
- PRODUCTION FORECASTING
- FIELD DEVELOPMENT PLANNING
- TYPE CURVE GENERATION
- MATERIAL BALANCE
- COMPETITOR INTELLIGENCE
- ECONOMIC MODELING
- WORKFLOW OPTIMIZATION
- DATA ANALYTICS
- DATA SCIENCE & MACHINE LEARNING

### INDUSTRY SOFTWARE

- CMG IMEX, CMOST, WINPROP, GEM
- IHS HARMONY
- KAPPA TOPAZE
- WELL VIEW, PROD VIEW
- MOSAIC, VAL NAV
- ENERSIGHT
- ACCUMAP, GEOSCOOT
- TABLEAU, POWER BI
- PYTHON, SQL

### EDUCATION

BACHELOR OF PETROLEUM SYSTEMS ENGINEERING  
UNIVERSITY OF REGINA, 2014

### PROFILE

Experienced oil and gas professional (9 years) with a solid technical background in reservoir and development engineering. Proven expertise in numerical simulation, well test analyses, reservoir surveillance, economic modeling, and field development planning. Meticulous, analytical individual and a life-long learner who enjoys keeping current on techniques and tools. Enthusiastic about data science and machine learning, with a keen interest in extracting insights from data to understand and improve well productivity.

### PROFESSIONAL EXPERIENCE

**SENIOR RESERVOIR ENGINEER / RESERVOIR ENGINEER** (2020 – Present)  
Sinopec Canada, Calgary, AB

- Performed rate transient analysis in unconventional plays such as the Montney and Rock Creek to extract reservoir characteristics, investigate well interference and reliably forecast well performance.
- Built parametric models to determine optimum well spacing and optimize completion design in the Montney, Duvernay and Rock Creek formations.
- Created and optimized field development plans for several key conventional and unconventional plays (Ellerslie, Rock Creek, Montney and Duvernay) yielding over two hundred locations which have either been budgeted or added to the company's long-term plan.
- Ran various sensitivities on short-term and long-term field development plans for optimization purposes.
- Provided technical input and recommendations in creating and maintaining the company's capital budgets and long-term development plans.
- Work closely with the Reserves team and third-party evaluators to optimize undeveloped bookings across different company assets and formations.
- Represented the company at various subsurface meetings with the Montney Producers' Group, presenting innovative workflows to peers.
- Built over two hundred type curves across the Montney, Duvernay, Mannville, Cardium and Rock Creek formations, evaluated type well economics and project economics for development plans and deals.
- Developed new and efficient workflows for evaluation and type curve generation that has eliminated ~95% of data preparation steps and vastly improved project timelines.
- Created a one-stop database in Tableau to monitor competitor activity in plays such as the Montney and Duvernay, resulting in recommending modern and effective completion designs.

## CERTIFICATES

GENERAL ASSEMBLY DATA  
SCIENCE (2021)

DATA SCIENCE INFINITY (IN  
PROGRESS)

DATA CAMP

## MEMBERSHIPS

ASSOCIATION OF  
PROFESSIONAL ENGINEERS  
AND GEOSCIENTISTS OF  
ALBERTA (APEGA)

SOCIETY OF PETROLEUM  
ENGINEERS (SPE)

## EXPERIENCE Continued

- Prepared and presented seven divestment packages to executives - generated type curves and evaluated economics for upside locations - potentially reducing the company's asset retirement obligations (ARO) by over 14 million dollars.
- Managed over \$100,000 in engineering software, championing new software and databases that improved engineering workflows.
- Stewarded company's non-operational budget of 15 million dollars by performing subsurface and economic evaluations on Independent Operation Notices and recommending projects that added significantly to the company's free cash flow.
- Mentored other engineers both locally and internationally (Beijing) in general subsurface evaluation techniques.

### *RESERVOIR ENGINEER-IN-TRAINING* (2014 - 2020)

Sinopec Canada, Calgary, AB

- Created a workplan for evaluating all company assets for all company rights, ranked assets for development or divestiture, and presented the workplan and results to upper management.
- Generated condensate-gas ratios, H<sub>2</sub>S maps and calculated gas and condensate in place volumes for company's Montney asset.
- Created a sour gas injection model in CMG IMEX to improve economics of sour oil restart and facilitate sour gas egress of company's high value oil plays; the model also predicted required surface pressures to inform compressor design.
- Built an economics sensitivities dashboard in Tableau that calculates the impact of changes in capital and/or volumes in real-time when fed a base set of economic runs.
- Optimized company's conventional waterflood assets in Alberta, presented to third party evaluators, resulting in an increase in reserves booking by ~700 thousand barrels.
- Developed an efficient waterflood monitoring workflow in Tableau to make for a more user-friendly experience.

### *EXPLOITATION ENGINEERING INTERN* (2012 - 2013)

Sinopec Canada, Calgary, AB

- Performed decline curve analysis on 100+ wells in Pembina and Carrot Creek and analyzed the effects of various completions metrics on productivity.
- Updated asset team on key industry activity including well licenses and pipeline approvals; monitored load fluid recovery of company's new drills.