

Million Gebremichael
Petroleum Engineer
UIC Group, Oil Conservation Division, EMNRD

RELEVANT EXPERIENCE

More than 10 years of professional experience working both for oil and gas companies and provincial government of Alberta oil and gas regulatory department. Currently working for the Energy, Minerals and Natural Resources Department as part of the group responsible for oversight of the Underground Injection Control (UIC) program for the Oil Conservation Division. Examples of various skills and experience applicable to the current position:

- ☐ Applied Production Engineering Principles and computer models to carry out well surveillance tasks to find short term and long-term optimization opportunities.
- ☐ Experienced in well intervention to mitigate production bottlenecks: Liquid loading mitigation (plunger lift optimization), Wax maintenance, Swabbing, Chemicals and solvents, Methanol injections to prevent hydration formations, Plunger's optimization, Backside foam injection, Built and maintained PI Process Book and Exception based tools for daily surveillance.
- ☐ Monitored and mitigated Acid Gas Injection (AGI) wells and made sure of regulatory requirements of mechanical integrity tests of injection wells are done in close adherence to regulatory requirements and writing programs for matrix well stimulation of the wells for optimal injection works.
- ☐ Experienced in reviewing and approving OCD's C-108 applications for Saltwater Disposal (SWD) and Acid Gas Injection (AGI) wells in State of New Mexico.
- ☐ Experienced in reviewing and approving sundry notes for well workovers and injection pressure increases.
- ☐ Experienced in analyzing subsurface mechanical integrity tests: sonic and temperature logs, caliper and magnetic flux logs, cement bond logs.
- ☐ Wrote well testing procedures and coordinated asset well-testing campaigns: well Integrity testing- Wellhead integrity test (WIT), Subsurface integrity test (SIT), Packer integrity testing, well suspension compliance, production casing integrity and tubing tests and Surface casing vent flow.
- ☐ Calculated well operating pressure envelopes- maximum allowable annulus surface pressure (MAASP) for production and injection wells to make sure wells are operating safely and compliant with regulatory requirement.
- ☐ Good understanding why a particular size and material grade is used in the well completion design.
- ☐ Experienced in Well Reservoir Facilities Management (WRFM) surveillance work.
- ☐ Experienced in reserve determination utilizing Volumetric, Decline Curve Analysis and Material Balance Techniques

- Experienced in reservoir engineering principles employed by regulatory jurisdictions- Pool Delineation schemes and Pressure studies, determining and writing notices to operators on Commingling, Good Production Practices (GPP) and Maximum Rate Limitation Orders (MRL)
- Experienced in implementing regulatory requirement for hydraulic fracturing by adhering to respective regulatory directives by applying AccuMap to determine wells –active and idle within injection zone and dispatching notices to other operators to take appropriate preventative measures during the operation.
- Experienced in data mining and analyzing utilizing software programs like AccuMap, ARCGIS, SharePoint, fetching data from various sources.

SPECIALIZED TRAINING

Courses provided through Shell International [Canada, USA, and the Netherlands]:

- Well Reservoir and Facility Management (11/05/2014) (Online)
- Artificial Lift Foundation Course (06/30/2015) Houston, Texas, USA
- Production Chemistry for unconventional Gas assets (11/08/2016), Calgary, Canada
- Well Reservoir and Facility Management Advanced Course (09/30/2016), Calgary, Canada
- Production Technology Foundation Course A-well and production System Modelling (11/29/2016), Rijswijk, Netherlands
- Material and Corrosion for Unconventional wells (11/17/2016), Calgary, Canada
- Advanced Well Integrity (04/12/2017), Houston, Texas
- Production Technology Foundation Course B (Well Construction) (12/07/2017), Houston, Texas, USA
- Production Technology for Unconventionals (10/23/2017) Calgary, Canada

EDUCATION

Bachelor Degree, Petroleum Engineering, (2012)
Southern Alberta Polytechnic, Canada.

Core courses include Reservoir Engineering, Reservoir Simulation, Production and Completion Engineering, Drilling Engineering, Geology, Formation Evaluation, Phase Behaviors, Petrophysics and Petroleum.