

PROFESSIONAL CERTIFICATIONS

- Registered Professional Engineer P.E. (AELP9344), Petroleum, State of Alaska

Professional Engineer with broad based, diversified experience in drilling and well operations, both in planning and executing, in fields with heavy oil and high temperature high pressure operations (US land, Arctic, and North Sea). Expertise in supervision/management, project/risk management, safety, emergency response, contract/contractor management, business process improvement, and team development. Recognized as a proactive leader who uses effective communication and interpersonal skills to achieve goals and positively impact the bottom line.

PROFESSIONAL EXPERIENCE

PETROTECHNICAL RESOURCES OF ALASKA (PRA)

Drilling / Project Management consultant Anchorage Alaska 2018 - 2020

Variety of project advising clients including Energy Capital Partners, Brooks Range Petroleum, Cook Inlet Natural Gas Storage, Chugach Electric Association. Planned and executed BLM Simpson peninsula legacy well abandonment program for Olgoonik winter 2019-2020. Achieved well objectives.

Board of Directors - Anchorage Alaska, Malamute Energy 2017 - 2019

Drilling Manager - Anchorage Alaska, Furie Operations Alaska 2018

Responsible for drilling development well, completion of a second well in Cook Inlet with a jack up rig. Planned and executed the project achieving well objectives with good safety and environmental performance.

Drilling Manager - Anchorage Alaska, Marsh Creek 2017

Responsible for abandoning several North Slope BLM Barrow Cluster legacy wells. Planned and executed the project achieving well objectives with good safety and environmental performance. Suspended operations on a well from previous season.

Drilling Manager - Anchorage Alaska, Ahtna Native Corp 2016

Responsible for drilling a high-pressure remote exploration well near Glennallen. Executed the project achieving well objectives with good safety and environmental performance.

Drilling Manager - Anchorage Alaska, ASRC Exploration 2015 - 2016

Responsible for drilling a remote exploration well on the North Slope. Planned and executed the project achieving well objectives, under budget, on schedule, with good safety and environmental performance. Built systems and process for ASRC, it was the first drilling operation the company had executed.

Expert Witness - Anchorage Alaska, Manley & Brautigam 2015-2016

Drafted expert reports, was deposed and testified at hearing in property tax case representing Pioneer. Following year testified before the State Assessment Review Board in a property tax case representing Pioneer, ENI, and Caelus.

Project Manager - Anchorage Alaska, Linc Energy 2013 - 2015

Responsible for drilling a remote exploration well at Umiat AK, managing the project development including: assessing the commercial viability; evaluating the subsurface; building a reservoir model; collecting environmental base line data for permits; and developed engineering study to determine road and pipeline

CONOCOPHILLIPS Retired 2012

Seconded to North Caspian Operating Company,

Drilling Delivery Manager – Paris France / Astana Kazakhstan 2009 – 2012

Responsible for drilling and rig project assurance, integration, risk management and performance on the 32 billion dollar Kashagan project. This was an oversight role for the owners of the venture.

- Developed and obtained approval of a 3 rig strategy accelerating the completion of the drilling phase of the project by 2 years, saving \$117 million dollars, accelerating production 16k bbl/ day.
- Influenced the Agent to increase drilling estimates resulting in a more achievable cost estimate. Led follow-up project assurance event confirming project was within cost and schedule estimates.

Drilling & Wells Manager - Stavanger Norway 2008 - 2009

Accountable for \$1.1 billion annual budget, 5-6 rigs in the Norway sector of the North Sea.

- Delivered improvement in safety performance by reducing recordable incident frequency
- Delivered measurable improvement in achieving cost and schedule targets.
- Delivered objectives, budget/schedule targets on two high temperature / pressure exploration wells

- Recognized as a leader in contract management, delivered 10% cost reduction on major contracts
- Delivered Well Operations objectives of FEL II phase of the Eldfisk II project.

Drilling & Wells Manager - Aberdeen Scotland 2005 - 2008

Accountable for \$1.5 billion annual budget, 7-10 rigs in the UK, Norway and Danish sector of the North Sea.

- Developed safety process, reducing recordable incident frequency 33%
- Led business unit wide UK safety action team improving the effectiveness of the team
- Leveraged synergies across the ConocoPhillips North Sea Well Operations resulting in improved knowledge transfer and performance
- Delivered objectives, budget/schedule targets on the Stork and Jackdaw high temperature/pressure exploration well. Stork was Rushmore Best In Class Well.
- Assumed the position of Incident Commander on a UK sector incident resulting in good communication and coordination between field operations, management, and UK authorities.

Drilling & Wells Manager - Anchorage Alaska 2000 - 2005

Accountable for \$300 million annual budget, 3-5 rigs on the North Slope, and Cook Inlet fields.

- Delivered cost improvement between 5-10% and improved safety performance between 10-15%
- Delivered wells on schedule and within budget.
- Delivered remote explorations well objectives over a three-year program
- Implemented cost management system improved accuracy of cost projections to within 5%
- Incorporated project management guidelines into the Drilling and Wells planning process
- Delivered the execution phase objectives of the Alpine project, remote 50 well project

Well Operations Superintendent - Prudhoe Bay, Alaska 1994 - 2000

Accountable for \$100 million annual budget, Coil Tubing Drilling, well intervention, and maintenance operations

- Reduced spill reduction and safety improvement between 5-10%.
- Reorganized the Coil Tubing Drilling organization, delivered cost and performance improvement.
- Led the successful re-alignment of major wellwork contracts delivering cost savings
- Led the field emergency response on major incident as the operations section chief.

Seconded to BP, Engineering Manager,

Operations and Workover Superintendent - Anchorage, Alaska 1991 - 1994

Held several positions in the ARCO/BP Shared Services Drilling organization, reporting to dept manager.

- Led field operations of all drilling and workover rigs for BP North Slope Fields.
- Developed and implemented emergency response system, and coordinated drills.
- Was the well operations representative on a team that redefined the model for contract services delivering a 20-30% reduction in cost.

Area Workover Engineer, Senior Drilling Engineer - Anchorage Alaska 1986 - 1991

- Supervised a group of workover engineers, prioritization of projects, scheduling rig operations, and was a field supervisor of workover and drilling operations in the Prudhoe Bay field.
- Was the Well Operations representative on the evaluation team that made the recommendation to combine the Arco and BP organizations and manage the Prudhoe Bay field as a single unit.

Senior Drilling Engineer / Drilling Engineer - Houston, Texas 1981 - 1986

Supervised a group of drilling engineers, prioritizing projects, coordinating rig schedules for onshore Wilcox development, exploration drilling and snubbing unit operations.

Drilling Engineer - Lafayette, Louisiana 1980 - 1981

Worked both onshore and offshore assignments