

BS, Petroleum Engineering, University of Texas at Austin 1987  
BA, Management Engineering, Claremont McKenna College 1988

**RAYMOND OAKLEY**  
*Petroleum Engineer*

Ray has a broad range of experience in support of the Alaska oil industry. He has worked closely with Operations, Maintenance, Wells, Drilling and Reservoir groups. He has experience in Production Optimization, coordinating the interaction of the various facets of Slope operations. He has production engineering and rig workover experience, has managed a water and gas flood, written rig and non-rig wellwork procedures, analyzed production, injection and cost data, and supported drilling and rig workover programs. He has worked well with production engineers, reservoir engineers, drilling engineers, Well Service field crews and Operations and Maintenance personnel. He is able to adapt quickly to new settings and pick up new skills.

## **PROFESSIONAL EXPERIENCE**

### **2015-2019 - Petrotechnical Resources of Alaska / DOE and JOGMEC**

- Petroleum Engineer, Methane Hydrate Production Test Front-End Loading. Worked drilling and completion issues for potential stratigraphic test well for a long-term production test of a methane hydrate well, under contract to the US Department of Energy (DOE) and the Japan Oil, Gas, and Metals National Corporation (JOGMEC). Extensive review of drilling history at shallow depths in area of interest, to aid in drilling and casing design for strat test well. Design suitable completion design for monitor well. Investigate completion design including sand control and artificial for a hydrate production well and temporary surface facilities for a 1-2 year production test targeting the hydrate interval. Designing a completion for sustained methane hydrate production through depressurization and able to handle undetermined amounts of water and sand along with hydrate gas.

### **2014-2015 - Petrotechnical Resources of Alaska / ConocoPhillips Alaska**

- Rig Workover Engineer, Kuparuk River Unit. Functioned as project engineer on 5 million dollar projects, including design, front-end loading, and long-lead items. Designed rig workover programs, including decompletion steps, completion design, casing repair and wellhead upgrades. Wrote rig and non-rig workover procedures, provided town engineering support to rig, coordinated with Asset and Development Engineers to perform Front-End Loading (FEL), wrote cost estimates, coordinated long-lead materials with vendors and procurement, reviewed and approved invoices. Attained Well Control certification.

### **2005-2013 - Petrotechnical Resources of Alaska / BP Alaska**

- Wells Optimization Engineer, Prudhoe Bay WOA (Western Operating Area). Coordinated well and pad centered activities of Operations, Production Control Center, Wells Group and office Pad Engineers. Maximized oil production to the current or planned constraints in the system. Managed well flowline and common flowline velocities to minimize corrosion and erosion. Requested corrosion inspections based on well activities.
- Field Optimization Engineer, responsible for Prudhoe Bay Production Inspection Maintenance Plan, coordinated activities of Operations, Inspections, and Maintenance groups. Responsible for maximizing oil production, including maintaining minimum flow rates necessary for stable facilities operations during pipeline prorations or extensive maintenance periods. Facilitated shutdown and start-up activities that involved multiple facilities while acting as a liason between diverse operations groups.
- Petroleum Engineer for Eileen West End (EWE) Ivishak wells. Manage the well set, including optimizing the use of gas lift with regard to EWE LDF velocity limits. Coordinated a weekly Simultaneous Operations (SimOps) meeting focused on the busy West End, with representatives from Wells, Well Tie-Ins, Operations, Drilling, Optimization and Office Personnel; primary purpose was to assure safe and efficient operations with a secondary purpose of communicating resource priorities to influence planning.
- Petroleum engineer for Aurora and Borealis fields, Kuparuk formations in the Prudhoe Bay Unit. Primary focus was working with Operations to get competitive Borealis wells online, in the complex operating environment at GC2. Supported Drilling for new wells and sidetracks and rig workovers. Wrote wellwork procedures. Managed WAG swap scheduling and wellwork.
- Petroleum Engineer for Badami. Evaluated and implemented 2005 Badami field restart. Reviewed wellbore and reservoir history, wrote wellwork procedures. Worked very closely with Facilities / Operations for the small, remote field. Coordinated with Wells group and Operations for remote location well operations. Contributed to spill contingency, permitting and facilities issues.

### **2004 - SAIC / Alyeska**

- Provided engineering services to Alyeska Pipeline Service Company on several projects.

**2004 - ASRC Energy Services / BP Alaska**

- Wrote slickline and e-line wellwork procedures for BP Exploration Wells group, working in conjunction with pad engineers.

**2001-2003 - Sperry-Sun Drilling Services**

- Log Analyst, conducted post-processing of open-hole LWD logging, including depth shifting and QC.

**1995-1999 – NANA Corporate Services / BP Alaska**

- Petro-Technical Assistant, contracted to BP Exploration, Prudhoe Bay Unit Resource Management. Gathered, filtered, analyzed, charted, and mapped diverse oilfield data. Created mini-logs and cross-sections. Generated surface and structure maps. Generated materials for pad reviews and the annual state surveillance report.
- Stepped up to cover pad engineer duties for vacation relief, including daily well monitoring, monthly fluid allocations, picking perms and wellwork support.
- Developed cycle well schedule and identified swing wells at Eileen West End.

**1990-1995 – Petredat, Anchorage and North Slope, Alaska**

- Field Engineer, prepared and operated downhole pressure/temperature gauges on North Slope. Coordinated with company engineers to design appropriate programs. Worked in field with Slickline and Coiled Tubing crews. Acted as sole company representative in the field, across the North Slope.