

SUMMARY

- Over 20 years experience in the oil and gas industry including pipeline and related facilities engineering, design, construction, procurement, operation and maintenance
- Passionately committed to a culture of safety and health fostering a culture of positive change
- Wide spectrum of knowledge of Engineering, Construction and Project Management functions in both greenfield and brownfield project sites
- SIMPOS coordination and interface management
- Hands-on operation and maintenance experience that directly benefits project designs and constructability
- Knowledgeable with applicable local, industry and international codes and regulations governing the design, construction and operation of oil and gas facilities including environmental and archeological protection
- Excellent interpersonal, communication and technical writing skills and the ability to work with teams from diverse disciplines, companies and nationalities including working with interpreters

EXPERIENCE

2012 to
present

Pipeline Construction Lead / Manager - WorleyParsons

LOCATION: Anchorage, Alaska

PROJECT: ExxonMobil Point Thompson

Lead construction and oversight for the installation of 22.2 miles of 12" export pipeline on the North Slope of Alaska east of Prudhoe Bay. Sub-zero arctic winter construction required for Project access and tundra protection during construction. Construction during the winter of 2012-2013 included: 1.) Field camps and offices mobilization and construction, 2.) Ice road preparation, construction and maintenance, 3.) Vertical and horizontal support members (VSM/HSM) installation. The 12" Export pipeline was installed during the next winter construction season, including five miles of FOC and 15kV power lines. Pigging and hydrotesting of the pipeline post-installation included the discharge of the test medium to arctic tundra.

West Gathering Pipeline Lead for the installation of 5 miles of 8" corrosion resistant alloy (CRA) pipe, both Inconel lined and clad, parallel to the 12" pipeline during the winter season in 2014-2015. Development and qualifications for CRA welding procedures were performed prior to mobilization. Hydrotesting in excess of 11,000 psi.

Piping / Mechanical oversight for facility piping includes the installation of stainless steel duplex product line, high pressure re-injection carbon steel piping and ancillary piping (product, corrosive gas, flare, waste water, methanol, diesel, and instrument air). Hydrotest up to 22,500 psig. Closure welds review and monitoring and processing facility sealift module installation prior to commissioning activities. Nitrogen/Helium leak testing of facility piping.

2011 to 2012 Deputy Director - CH2M Hill (ECC-VECO)

LOCATION: Sakhalin, Russia

Deputy Director of CH2M HILL's joint venture, ECC-VECO, in Yuzhno-Sakhalinsk, Russia. Responsibilities involved oversight of general services contracts providing operation, maintenance and modification of existing oil and gas facilities. Preparation of both technical and commercial proposal packages for future projects including pipeline, facilities and offshore platform modifications. All work was performed with our Russian partner's staff and craft.

2010 to 2011 Project Manager - CH2M Hill (ECC-VECO)

LOCATION: Sakhalin, Russia Project: Sakhalin 1

PROJECT: Exxon Neftegas Limited, Arkutun-Dagi Onshore Pipeline

Provide Project Estimate, Constructability Review, Construction Execution Plan, Commercial and Technical Proposals for the Client in Houston, TX. Mobilized in August 2010 to the construction site at the Chayvo Onshore Production Facility on Sakhalin Island, Russia Federation. The installation included 12 kilometers of 508mm (36mm wall thickness) water injection pipeline with launcher facilities, 1400m horizontal directional drill and 10 water body crossings requiring installation during winter months. Installation also includes a two-phase pipeline interface between the offshore tie-in and one receiver assembly which required one TD Williamson hot tap on a 36" product line. Communications between the facilities required the installation of 10 km of fiber optic cable.

2009 to 2010 Project Manager - Rockford Corporation

LOCATION: California

PROJECT: Wild Goose Storage Facility Expansion

General contractor for the installation of two Caterpillar 3612 gas engine drive Ariel JGC-6 compressors and associated gas treatment equipment to provide additional injection and withdrawal capabilities to an existing facility. Installation of 4.1 miles of 24" pipeline between the compressor plant and the injection well storage fields with seven horizontal directional drills. Scope of work included all civil, mechanical and electrical installation. Provided coordination between sub-contractors, QA contractors and Client's management team providing cost reporting, equipment and resources loadings and scheduling. Welding, engineered lift, and hydrotesting procedures development. HS&E leadership and implementation within an existing operating facility following the Client's brownfield permit to work system.

2008 to 2009 Engineer Manager - CH2M Hill (ECC-VECO – Sakhalin, Russia)

LOCATION: Sakhalin, Russia

PROJECT: Sakhalin 1 Project, Odoptu FSP to Chayvo OPF Pipeline Project

Installation of 79 kilometers of 406mm two-phase pipeline in Sakhalin, Russia for Exxon Neftegas Limited. Responsible for procedure preparation and submittal prior to construction, including welding procedures and qualifications, environmental management plan, spill prevention and countermeasure plan, regulatory compliance plans, etc. Provide pipeline installation procedures for all aspects of construction including hydrostatic testing, commissioning and fiber optic cable installation. Coordination of ice road construction, ice slotting, excavation and pipeline installation across 10 kilometers of Piltun Bay.

Construction support activities include Client interface and reporting with milestones, resource coordination with Project and Construction Managers and QA compliance including preparation of documents for operation turn-over. Field supervision, coordination and inspection of work performed.

2007 to 2008 Senior Mechanical Engineer - Geothermal Development Associates

LOCATION: Reno, Nevada

Firm providing geothermal power systems consulting, design and equipment for worldwide projects. Prepared initial project proposals depending on Customer's resources, coordinated detailed design on turbine-generator and ancillary equipment packages and provided oversight on manufacturing, assembly and installation of the equipment.

Geothermal turbine packing design included inlet and exhaust steam pipe analysis using CAEPIPE, system heat mass balance for equipment selection including gas extraction system, cooling towers, lube oil systems. Analyzed ancillary parasitic loads for system optimization and cost savings. Contract interface and negotiations with companies in Africa, Indonesia, Papua New Guinea and Eastern Caribbean.

Failure analysis of an OEM Ethiopian power station to determine the root causes failure of the station cooling towers and high voltage transmission lines.

On-site Commissioning Engineer for the installation and alignment of a 2 MW geothermal power plant in Naivasha, Kenya, approximately 100 km north of Nairobi. Included receiving and unloading of sensitive equipment, directing lifting operations for equipment placement, leveling equipment within 2mm per 10m and performing precise alignment of rotating equipment.

1998 to 2007 Senior Pipeline Operation Engineer – Tuscarora Gas Transmission Company (Sierra Pacific Resources)

LOCATION: Reno, Nevada

Senior Pipeline Operations Engineer for 500 km of natural gas transmission pipeline and associated compressor stations, both centrifugal and reciprocating. Responsible for supervision and completion of all operation and maintenance functions in addition to compressor, measurement and regulation station design and upgrades. Budgeted, scheduled and executed all annual operation and maintenance activities utilizing Company personnel and Contractors in addition to performing several of the tasks personally.

Tasks included:

- SCADA upgrades on field RTUs and PLCs
- Calibration of electronic transmitters, meters and gas chromatographs used for system measurement, control and custody transfer.
- Cathodic Protection Survey, data interpretation and impressed current design
- Developed Integrity Management Program and Operator Qualification Programs in accordance 49 CFR 192
- Damage prevention and training programs with Local and Federal first responders
- Operator qualification training, tracking and program review including several workshops for ASME B31Q
- Project Engineer and Manager for several capital improvements projects including:
 - Transient system modeling
 - Various pipeline laterals design and installation
 - Custody transfer and pressure control facilities
 - Compressor station design, installation and commissioning

1994 to 1998 Transmission Engineer – Paiute Pipeline Company (Subsidiary to SWG)

LOCATION: Nevada

Engineer responsible for natural gas facility design, construction, inspection and material management of over 1000 km of natural gas transmission facilities. Projects included new service facilities and identifying older systems requiring modifications and upgrades. Design and installation of impressed current cathodic protection systems. Designed LNG plant modifications to include loading and unloading facilities. Prepared and qualified welding procedure specifications to API 1104 and ASME Section IX. Designed and field coordination of tapping procedures using Mueller and TD Williamson equipment for pipeline replacements and compressor station tie-ins.

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1992 to 1994 Southwest Gas Corporation (SWG)

Engineer

LOCATION: Nevada

Company engineer charged with system improvements, franchise replacements during civil infrastructure improvements and new business design of natural gas distribution facilities. Additional responsibilities include review and modifications of existing natural gas transmission facilities.

1990 to 1992 Designer - Arneson Marine, Incorporated

LOCATION: Nevada

Engineering intern charged with the hydraulic design, schematics, general machine design and manufacture of high performance boat outdrives with gear reduction boxes.

EDUCATION

Bachelor of Science, Mechanical Engineering - University of Nevada, Las Vegas. 1988 – 1992

REGISTRATIONS/AFFILIATIONS

Licensed Mechanical Engineer, Alaska, USA

Licensed Mechanical Engineer, Nevada, USA

Current or previous member of ASME, NACE, AWS, NSPE.

PUBLICATIONS/PRESENTATIONS

N/A

SPECIFIC TECHNICAL EXPERTISE/SPECIALIST COURSES

KEY SKILLS:

- Excellent written and oral communication skills
- Working with Translators
- Public Speaking
- Leadership, Motivation and Problem solving
- Safety Awareness
 - Norther Slope Training Co-operative (NSTC) Unescorted Training
 - OSHA 10 Training
 - Fall Protection / Working at Heights
 - Incident Command System
 - National Incident Management System
 - TapRoot Incident Investigation
 - Risk Assessments
 - CPR / AED / First Aid
 - Operator Qualification
 - Integrity Management
- Supervising Staff, Contractors and Engineers
- Budgeting, Cost Control and Scheduling
- Natural Gas systems transient modeling and mapping