

International Construction Consulting, LLC

(Independent Consultant to the Oil & Gas Industry)

30" River Crossing in Cameroon

KNOWLEDGE

30 years industry experience; a BSc and an MBA with a focus on international business.

EXPERIENCE

Routinely perform feasibility studies; conceptual to detail cost models and estimates; write execution plans; provide planning expertise and documents, etc.

INNOVATIVE SOLUTIONS

Skill sets to put together a variety of project packages, including project finance (funding, justification of investment, estimate confidence packages, etc.), contracting and business strategies, field development (programs and planning), and various management systems.

RELIABLE EXECUTION

Experienced in both mega/large international projects as well as smaller gas field development work for small to midsize independents.

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Feasibility Studies



Conceptual to Detailed Cost Estimates



Quality Surveillance Programs



Project Execution Plans



Specialized Studies & Investment Analysis



Independent Project Reviews



Project & Construction Management

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The following narrative provides more detail regarding some of the major capital projects with which I have been involved from 1992 to present and which may or may not be included on my CV.

Major Capital Projects Executed: 1992 – present

Keystone XL Pipeline / Atlantic Coast Pipeline Project

Contracted to: EnSite USA
Location: US
Scope: Senior Construction Consultant
Project Cost: Confidential
Year: 2017

As Senior Construction Consultant, primary responsibility was working on behalf of TransCanada in assessing existing execution planning and strategies in order to optimize project and construction efficiency to mitigate cost and schedule risks. Among other responsibilities: provided a logistics assessment of access roads, pipe yards & contractor yards; developed a Lodging Study; evaluated tie-in efficiency improvements; developed contractor QC requirements; provided the construction management team staffing plan and cost estimate; and Contracting Strategy White Paper. Performed analysis and provided input into the 850-mile x 36" pipeline section planned to be built from Canadian border through Montana, South Dakota, and Nebraska to support FID.

Additionally performed execution, design, and construction assessments, including constructability reviews for Dominion Energy's Atlantic Coast Pipeline Project, a 600-mile x 20", 36", and 42" pipeline system traveling from West Virginia, through Virginia, and to North Carolina.

Alpha Crude Connector Project

Contracted to: Frontier Energy, LLC (Client)
Location: USA
Scope: Senior Advisor-Engineering, Construction, Operations
Project Cost: USD \$500MM
Year: 2015 – 2017

The Alpha Crude Connector, is a 400-mile crude oil pipeline transmission system that cuts across the Northern Delaware Basin. This project features a nominal 100,000 barrels per day of capacity, more than 300,000 barrels of operational storage, pump stations, and truck offloading facilities. The system includes well over 300 well head hookups with flowlines to the main transmission lines. The system provides complete flexibility with a variety of flow regimes.

Doseo Pipeline Project

Contracted to: Glencore E&P (Client)
Location: Chad
Scope: Senior Construction Manager

8086 SOUTH YALE • SUITE 290 • TULSA, OKLAHOMA • 74136

Greg.Lamberson@intlconstconsulting.com

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Year: 2011 – current

The capacity of the 900-mile (1500 km) pipeline, which carries crude oil from Western Kazakhstan to a dedicated terminal in the Black Sea, will increase to 1.4 million barrels per day from its current capacity of 730,000 barrels per day.

The project is implemented in three phases with capacity increasing progressively from 2012 to 2015. The project consists of the refurbishment of the existing five pump stations, the addition of 10 new pumping stations, the replacement of a 55-mile (88 km) section of the line, six new storage tanks and the addition of a third offshore mooring point at the Black Sea terminal, six miles (10 km) north of the Port of Novorossiysk.

The Tank Farm & Marine Terminal scope includes:

- All construction works, testing, start-up and adjustment, commission of the 1st and 2nd phases of construction of the tanks and associated structures and utilities all in a seismically active area;
- Detail Design and construction of six (6) floating-roof tanks (VFRT 100,000 m³), double-sealed to prevent oil vapor discharge, cathodically protected, and with the fire extinguishing and bottom sediment preventing oil agitation system piping;
- Process piping;
- Automated fire protection system;
- Marine terminal expansion and tie-in to offshore pipeline
- Production service support depot;
- Power substations, power supply and equipment room with control room;
- SIMOP's for Commissioning & final tie-ins

Angola LNG Project

Client: Angola LNG Ltd (Chevron)

Location: Angola, Democratic Republic of Congo

**Scope: Construction Advisor for the Plant Early Site Work
Nearshore/Onshore Pipeline Construction Manager**

Year: 2008 – 2011

The facility consists of one (1) onshore LNG process train to treat and liquefy natural gas, two (2) LNG storage tanks, marine loading facilities and infrastructure and other support facilities. The Facility will process natural gas from wells offshore of Angola to produce 5.2 Million Tons Per Annum (MTPA) of LNG using the “ConocoPhillips Optimized Cascade Process”, for export by ship. The plant portion of the Project includes the facilities from upstream of the slug catcher(s) to the product loading arms on the marine terminal including: gas separation & treating, condensate stabilization, LPG fractionation, liquefaction, product storage, loading and offsite systems including non-process infrastructure. The LNG will be loaded into LNG Tankers supplied by others, and transported to customers. In addition to producing LNG, the facility will also

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produce two LPG products (Propane & Butane) and condensate products, also for export by ship.

Offshore/nearshore/onshore pipelines include 200 kms each of 18", 22", and 24" pipelines for the gathering and transportation of approximately 1,000 MMSCFD of associated gas from Third Party offshore Angolan oilfields north & south of the Congo River, along with non-associated gas from shallow water fields, to the single-train onshore LNG plant. Pipeline scope includes onshore, offshore, and shore approach, Explosive Remnants of War clearance (ERW-performed in accordance with United Nations' International Mine Action Standards (IMAS) and Angolan Nation Standards.), environmentally sensitive (e.g., savannah areas, river crossings, road crossings, and mangrove swamp areas), construction of a temporary jetty, external corrosion coated and internal flow coated pipe, valve stations, design code changes (from the offshore DNV design code, to the ISO & ASME onshore design codes), ESDV's, leak detection, cathodic protection, fiber optic cable installation, and pressures ranging from 158 bar (2,300 psi) to 295 bar (4,279 psi). The pipelines installed are current world records for the highest pressure transmission gas pipelines.

Escravos Gas Pipeline Project, Phase 3A (EGP3A)

Client: Chevron Nigeria Limited
Location: Nigeria
Scope: Construction Coordinator / Site Manager
Year: 2006 - 2008

EGP3A consists of the fabrication and installation of the below facilities offshore Escravos, Nigeria, West Africa.

Jacket & piles fabrication & installation for 2 ea topside modules. 2 each Topsides fabrication & installation: 1 new gas gathering and compression platform, capable of receiving up to 70 MMSCFD of low pressure separator gas, receives, compresses and dehydrates the gas to 1200 psig; 1 new well platform, providing nine (9) well slots and capable of handling up to 450 MMSCFD of high pressure gas, 33,000 BPD of condensate and 4,000 BPD of produced water for transport.

Pipeline installation, including FBE & Concrete weight coating for 20 kms of 10"; 6.6 kms of 20", 5km subsea power cable; 15 kms of onshore 24" pipelines; shore approach for dual 24" pipelines; 45 kms of offshore 24" pipelay, including piggable wye, PLEM, and SPM buoy; all related pipeline crossings, burials, riser installations, etc.

All related Brownfield installations (4 related, existing platforms) and all hook up & commissioning and turn over to operations.

West Salym Project

Client: Parsons/Shell

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Locations: Russia, W. Siberia
Scope: Pipelines & Terminal Construction Manager
Year: 2004 - 2005

The West Salym Project is located in Khanty-Mansi Autonomous Okrug, 120 kilometres south west of Surgut and 30 kilometres west of Salym village. The Salym oilfields include West Salym, Upper Salym and Vadelyp with a license area totaling 2141.4 sq km. The Salym fields recoverable C1+C2 category oil reserves approved by the Russian Federation State Committee on Reserves (GKZ) amount to 152.6 million tonnes.

Project includes major field infrastructure, an all-weather road built in the Communication Corridor (ComCor), linking the three Salym fields. Storage tanks, warehouses, field camps and a helipad were constructed, and a high-voltage power line was routed to the transformer substations to provide electrical power.

Originally, the oil produced from the initial wells in West Salym was shipped to customers by road tankers. To eliminate this, construction of a Central Processing Facility (CPF) in West Salym and the oil-export pipeline to the Yuzhny Balyk Booster Station was undertaken. There, a tie-in funnels the Salym oil into the Transneft main trunk pipeline system. The pipeline will allow crude oil export in larger volumes. Processing (the separation of gas, oil, and water) will take place at the CPF. The plant is designed to collect and process six million tons of crude per year with an option to expand capacity to nine million tons after Upper Salym and Vadelyp fields have been hooked up. From the CPF, the oil will go into the 90- kilometer (56-mile) pipeline, and then into the Transneft system, and from there to the refineries.

Sakhalin 1 Project, Phase 1, EGP2

Client: ExxonMobil
Location: Russia, Sakhalin Island
Scope: Early Site Manager; Pipeline Construction Lead
Year: 2002 - 2004

The Sakhalin-1 Project includes three offshore fields: Chayvo, Odoptu, and Arkutun Dagi. Exxon Neftegas Limited (ENL) is the operator for the multinational Sakhalin-1 Consortium (ExxonMobil interest 30%). Co-venturers include affiliates of Rosneft, the Russian state-owned oil company, RN-Astra (8.5%) and Sakhalinmorneftegas-Shelf (11.5%); the Japanese consortium SODECO (30%); and the Indian state-owned oil company ONGC Videsh Ltd. (20%).

Sakhalin-1 potential recoverable resources are 2.3 billion barrels of oil and 17.1 trillion cubic feet of gas (or 307 million tons of oil and 485 billion cubic meters of gas).

Sakhalin-1 is one of the largest single foreign direct investments in Russia and an excellent example of the advanced technological solutions the industry has to apply to meet the challenges of the growing energy demand. Project benefits to Russia include

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direct revenues to the Russian State estimated at over US\$ 50 billion, major infrastructure improvements, technology transfer and the use of Russian suppliers for contracts and procurement. Commercial development brings with it a contribution of US\$ 100 million to the Sakhalin development fund over a five-year period.

Chad Development Project

Client: 1) Willbros-Spie Capag JV ; 2) ExxonMobil
Location: Chad and Cameroon
Scope: Two-fold: 1) Joint Venture Construction Manager for Planning / Performed Construction Readiness Review for Owner Team
Year: 2000 - 2002

The project was performed under the auspices of World Bank financing and was an EPC consisting of 1,070 km of a 250,000 BPD 30" products pipeline, with terrain ranging from arid plains, tropical rain forests, and mountains, from southern Chad to the west coast of Cameroon, including a CP system, 48 mainline valve settings, 32 major road crossings and 11 major river crossings.

Cuiaba Gas Pipeline Project

Client: Parsons/Enron International
Location: Brazil and Bolivia
Scope: Construction Manager, Bolivia
Year: 1999 - 2000

Consisted of the installation of 626 km of a 265 MMSCFD, 18" gas pipeline through extremely remote, environmentally sensitive areas, including 3 major (directionally drilled) and 4 minor (conventional) river crossings, terrain ranged from plains, the wetlands of the Pantanal, mountains, and rainforests. Included in the work scope were metering stations, future compressor station sites, mainline valve settings, launchers/receivers, CP, SCADA, and pipeline pre-commissioning and commissioning.

Responsibilities included managing four (4) separate pipeline spreads divided among three (3) different contractors including four sets of spread superintendents and quality inspectors. Additional interface and coordination responsibilities included: resolving regulatory issues between Bolivian & Brazilian governments for the pipeline border crossing; managing external NGO's, including Amazon Watch, Friends of the Environment, and Greenpeace; coordination with the project financing sponsor, OPIC.

Cerro Negro Upstream Project

Client: Parsons/Mobil
Location: Venezuela
Scope: Dual Role: Construction Manager-Pipelines / Field Engineering Manager-Facilities
Year: 1997 - 1999

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Project was an EPC, grass roots 120,000 BPD Central Production Facility (CPF) in a logistically challenged area; 90 kilometers of heavy crude and diluent pipelines, gas sales and receipt pipeline and water injection pipelines, all with intelligent pigging capabilities; required infrastructure (i.e. internal/external roads, water supply, power supply, electrical distribution, etc.); logistics and heavy lift planning; well pads and associated facilities; manifolds and interconnecting piping and flow lines; coordination for the permitting of pipeline and power transmission routes and CPF land use; testing and pre-commissioning of pipelines and facilities; alliance agreement and contractual negotiations, integration and implementation with the prime construction sub-contractor for a \$50 MM construction sub-contract; planning, organization, and interface with multi-discipline, multi-cultural engineering and construction staffs; and client interface.

Multiple Projects – South America

Client: Willbros International
Location: Venezuela
Scope: Operations Manager
Year: 1992 – 1996

Company provided construction, EPC services, and dry dock services and pile manufacturing services in South America. It offered marine and lake-based construction services for the installation of gathering and injection pipelines, docks, jetties, terminals, and platforms. The company also manufactured and installed concrete piling for use in platform installation in the shallow water fields in Lake Maracaibo. It also provided maintenance services to facilities on Lake Maracaibo and also operates a dry dock at its facility there. The company operated a fleet of marine and lake equipment, including derrick barges, cargo barges, tug boats, and personnel transportation equipment. Its engineering services comprise the full array of project management, design, and field services. The company's construction services included pipeline installation in various kinds of terrain, from onshore to swamp, marsh, and offshore locales. Its construction services also included the installation of pump and flow stations and other related facilities which would be included as part of a pipeline transportation system or gathering and processing facilities.

Primary responsibilities included: project team organization, management of multiple projects in technically and logistically challenged areas, economic analysis of a wide variety of projects, including swamp, offshore and onshore pipelines and flow lines and related facilities and stations, production facilities, heavy transportation for drilling rigs, operation and maintenance of oil field installations, marine engineering and heavy civil marine construction, platform installations, port and harbor facilities, pilings, contract negotiations and risk management.

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