TRIALTA PROJECTS

OVERVIEW:

Trialta Projects is an Engineering, Procurement, and Construction Management company servicing the Oil and Gas Sector.

BACKGROUND:

Trialta was founded in 2011 on the foundation of quality and efficient engineering services for the oil and gas industry. Trialta works collectively with all clients to ensure project needs are executed on time and within budget.

SERVICES:

Trialta provides third party engineering, procurement, and construction management support for the following services:

- Upstream Oil and Gas well-sites and facilities including but not limited to:
    - Separator(s)
    - Metering
    - Storage
    - Flare Systems
    - Compressor Stations
    - Injection wells
    - De-Bottle necking
    - As-Building
- Oil and Gas Pipelines
- Sour Service Systems
- Regulatory Assistance
- Risk Review and Analysis (HAZOP, LOPA)
- Upstream Processing Facilities
- Civil/Structural Engineering & Design
- Electrical, Instrumentation & Controls

PROJECT EXPERIENCE:

Sweet/Sour Gas Processing Plant (s)

Project(s) consisted of:
- Liquid rich natural gas well pads to Central Processing Facility (CPF) with liquid rich gas being separated with vessels (horizontal and vertical, FWKO and cold separation design)
- Condensate stabilization with atmospheric storage and/or shipped directly to midstream via Lease Automated Custody Transfer (LACT) and pumping units
- Gas compression and processing via dehydration tower, refrigeration unit for propane/butane extraction or turbo expander plant for ethane extraction
- Dry gas shipped via sales meter to midstream pipeline infrastructure
- Ethane, propane and butane stored on site in pressurized bullets with LACT units delivering to midstream and/or truck out terminals

Gathering Systems and Sales Pipeline

Project(s) consisted of:
- 2"-12" Sweet/Sour interconnecting gathering pipeline systems from multiwell pad sites into CPF(s)
- Sweet/Sour sales pipelines up to 12"

Sweet/Sour Oil Battery(s)

Project(s) consisted of:

- Oil effluent gathering system from well(s), flow line(s) to CPF with three phase emulsion separated on site by means of vessel separation (horizontal and vertical, FWKO and/or treater design) and/or cascading tank set-up
- Projects include LACT unit design and fabrication for pumping, measurement and custody transfer to midstream company

Various Sweet/Sour Gas and Oil Well-site(s)

Project(s) consisted of:

- Gas or oil flowing and pumping from well, separated on site, measured, sent down corresponding pipelines to processing facility
- Well pad line heaters and gas dehydration to adhere to pipeline specifications

Steam Assisted Gravity Drain (SAGD) Pilot c/w 2500 bpd CPF and 8 Well Pair Production Pad

Project consisted of:

- Recovery selection alternatives, i.e. Cyclic Steam Stimulation (CSS), SAGD, or Enhanced Solvent SAGD (ES-SAGD)
- Project scoping, Front End Engineering and Design (FEED) and detailed design of an 8 well pair well pad, above ground production/steam lines and a 2500 bpd CPF with water softening/recycle and steam generation at 3 to 1 steam to oil ratio

PROJECT ROLES AND RESPONSIBILITIES INCLUDED:

- Process Simulation and Material Balance
- FEED Studies and DBM development
- PFD, P&ID and 3D Model
- Line sizing, equipment sizing, overall plant design, shutdown key development
- Civil/Structural for tanks, new equipment and piping engineering and design
- Electrical system design and commissioning support for all phases of construction
- Procurement and Construction Management Support
- AER/SK Gov't/OGC Regulatory Preparation and Submission
- Pipeline Hydraulics and Process Simulation
- Pipeline Stress and Expansion Engineering
- Pipeline/Road/Railway/Waterbody Crossing Design
- Contract Development

To learn more about Trialta Projects please visit our website:
www.trialtaprojects.com