



Processing Facilities

Athabasca Oil Corporation West Central Alberta Oil Batteries

The Kaybob, Kaybob East and Saxon oil batteries were fully modularized designs, including pipe racks and interconnecting pipe modules and were completed within a 12 month window from project conception to start-up.

The plants were designed for maximum 30,000 bbl/day light oil production with gas handling capacity of 75 MMSCFD of 5% H₂S sour gas. The first phase of the battery included installation of the following major equipment:

- One 10' x 50' inlet Separator designed for 10,000 bbl/day oil / 3000 bbl/day water and 75 MMSCFD gas.
- One 10' x 55' conventional oil treater designed for up to 15,000 bbl/day production of light sales oil.
- Six 2000 bbl tanks with automated sales truck loading/offloading system and recycle pump system.
- Two Caterpillar G3608TALE (2370 BHP) Driven Sour Gas Compressors for 12 MMSCFD each.
- One 60" ID 900 ANSI 75 MMSCFD sour gas glycol dehydrator.

- Utilities included instrument air, UHM system for building heat, fuel gas, flare systems, VRU compressor, oil cut shack, bulk compressor oil system, office, MCC, radio tower, and warehouse.
- All emulsion and water lines were internally coated.
- The pipe rack included a heated utilidor.

Our scope of work included:

- Conceptual design (pre-FEED)
- FEED
- Process investigation scenarios
- Detailed engineering
- Procurement and expediting
- Constructability reviews
- Field construction support
- HAZOP reviews
- Scoping Letter preparation
- Capital cost estimate (Appropriation Grade)



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- 60% and 90% 3D Model reviews
- Shutdown Key reviews

Engineering deliverables and construction drawings/documents in the different engineering/design disciplines, including Process, Mechanical, Piping, Instrumentation, Civil and Structural, design and 3D model, sourcing of equipment and bulk items, procurement, cost control and expediting were completed by our team.