PROJECT BRIEF
CONSTRUCTION SERVICES

ORION THERMAL PROJECT PHASE 2BC CPF EXPANSION
Cold Lake, Alberta

PROJECT DESCRIPTION
Federation was a primary contractor as part of the team completing the Phase 2BC expansion of Osum’s Orion facility, doubling the capacity of the SAGD plant from 9,000bpd to 18,000bpd. Federation worked directly for Osum on various scopes as part of the phase expansion. The project involved many simultaneous work fronts for Federation with a compressed project schedule and just-in-time engineering and material deliveries. The plant was fully operational while construction was ongoing, presenting safety, logistical, and production risks. Federation completed this project on schedule and on budget with over 150,000 direct man hours and zero lost time incidents. Some of the equipment installed were:

- Induced Gas Flotation Vessel
- Skim Tank
- ORF & ORF Charge Pumps
- Boiler Feed Water Pumps
- Glycol Aerial & Produced Water Coolers
- Produced Water Cool / Exchanger
- Treater
- Free Water Knockout
- Induced Gas Flotation Vessel
- Skim Tank
- ORF & ORF Charge Pumps
- Boiler Feed Water Pumps
- Glycol Aerial & Produced Water Coolers
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- Treater
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SCOPE OF SERVICES
- Civil Works
- Pile Installation
- Process Pipe Fabrication & Installation
- Structural Fabrication & Installation
- Vessel Lifting & Installation
- Electrical & Instrumentation
- Heat Tracing
- Insulation & Cladding Installation
- Scaffolding
- Commissioning Support

“Federation’s attention to detail was highly evident in their efficient execution of over 50 tie-ins during a 2 day outage at Orion to bring the new CPF equipment online.”

Michael Stobart, P.Eng, PMP
Osum Oil Sands Corp.