



CONVENTIONAL OIL Facilities & Pipelines



Equinox Engineering Ltd.

Equinox Engineering Ltd is a world class provider of EPCM services to the global oil and gas marketplace.

Founded in 1997, Equinox has successfully executed over 4,000 significant projects in Canada and around the world.

We have a worldwide presence with offices in Calgary (Canada), Brisbane (Australia) and Mumbai (India) with projects executed in fourteen countries and three continents.

Conventional Oil Expertise

Equinox has industry leading expertise in light medium and heavy oil production, as well as enhanced oil recovery (EOR) projects.

Our experience includes the design and installation of central processing facilities, field facilities and infrastructure.



Equinox delivers focused and experienced

Premium Teams

customized with the best

Technical Expertise

to align with

Client Culture

to ensure repeatable and

Successful Projects



Blue Rapids

Conventional Oil

Equinox projects experience includes oil batteries and satellites, wellsites & gathering systems, water handling facilities, truck loading, rail loading, pipelines, terminals and pump stations.

Equinox expertise in surface facilities includes all primary, secondary (water flood, polymer flood) and tertiary (thermal) production techniques.

We provide complete EPCM services including conceptual design, Front End Engineering Design and Detailed Design through to Start-up and Commissioning.

LACT

Oil Batteries & Satellites



Equinox has sixteen (16) years of experience in the design and construction of conventional oil batteries and satellites. Our project experience spans grassroots facilities, upgrades and optimizations, debottlenecking and sustaining capital projects.

Equinox has successfully executed oil treating facilities ranging from 500 bbl to 40,000 bbl in capacity. Projects include conventional light, conventional heavy and heavy oil projects, both sweet and sour with water cut ranging up to 95%.

Our expertise in oil production and battery design includes:

- Oil / water / gas / solids separation
- Emulsion treating
- Crude stabilization
- Multiphase metering
- Water Treatment
- Water Injection
- Desanding and sand disposal
- Custody transfer
- Truck loading, rail loading



Enhanced Oil Recovery

In addition to typical primary production surface facility projects, Equinox has leading edge expertise in the application of Enhanced Oil Recovery (EOR) techniques for much greater oil recoveries. As utilization of horizontal multistage frac'ing increases, oil recovery rates improve and the demands for surface facilities evolve.

Our EOR project experience (both pilot and commercial) in conventional oil, as well as tight oil and shale oil applications includes water flood, polymer flood and CO₂ miscible flood.

Equinox also has industry leading experience with steam and thermal heavy oil recovery. We have executed numerous Cyclical Steam Stimulation (CSS) and Steam Assisted Gravity Drainage (SAGD) projects as well as the Thermal Assisted Gravity Drainage (TAGD) pilot facility.



Wellsites & Field Facilities

Equinox expertise includes field production facilities such as single and multi-well oil batteries, along with gathering systems.

We have designed and installed hundreds of wellsites and will provide the expertise required to specify, size and utilize the appropriate equipment including slug catchers, inlet separation, single and double metering skids, inline heaters, chemical injection pumps and storage, condensate pump skids, flare knock out drums, flare stacks and incinerators as required.

Equinox has designed and installed thousands of kilometres of gathering lines for emulsion, casing vent gas, source water, produced water, fuel gas, etc.



★ Head Office
Calgary, Alberta

★ International Office
Mumbai, India

★ International Office
Brisbane, Australia

Selected Projects

Glidden Heavy Oil Battery

Grassroots 8,600 bpd heavy oil battery, 13° API oil, 87% water cut, associated sweet solution gas; also included 23 wellsites & gathering (emulsion, CVG, water)

Blue Rapids Oil Battery

Grassroots 2,600 bpd light oil battery, 41° API oil, 95% oil cut, associated sweet solution gas; with 18 well pads (1 to 4 oil wells per pad) and gathering lines

Cecil Oil Battery

Grassroots 4,000 bpd oil battery, 35 API° oil, 25% water cut, associated sour solution gas; wellsites & gathering (emulsion, source water, produced water)

Battle Creek Oil Battery

Grassroots 41,000 bpd oil battery, 10.6° API, 95% water cut, associated sour gas

Rainbow Lake Oil Battery & Gas Plant Facility

Grassroots 1,050 bpd oil battery, 35° API oil, 10% water cut; 10 MMscfd sour gas compressor (4.5 % H₂S) / dehydration; sour gathering lines; 15 km sales pipeline

TAGD Heavy Oil Pilot

FEED for 3,800 bpd TAGD Bitumen Pilot with two multiwell pads

Brintnell Oil Battery

FEED for grassroots 40,000 bpd battery; expansion of three batteries, field facilities

Brintnell Polymer Flood

Redesign and upgrade of 30 polymer flood well pads (1 to 12 wells per pad)

Pelican Lake Oil Battery & Polymer Flood

Optimization of 95,000 bpd sour oil battery, 20° API, 60% water cut; polymer flood field facilities & pipeline

Kiunga Condensate Terminal (Papua New Guinea)

Detail Design for 75,000 bbl condensate loading terminal

Haditha Oil Pump Station (Iraq)

Detail Design for 500,000 pd pump station fed by 42" pipeline; includes 3 mult-stage Sulzer pumps (4500 KW each) driven by Solar Taurus 60 turbines

Mina Abdullah Refinery De-hazing (Kuwait)

Moisture control, de-hazing facilities to reduce water content in diesel, gas oil



Calgary, Canada | Brisbane, Australia | Mumbai, India

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