



SAGD Well Pads

Wood Group is an industry leader in well pad design. It's one of the services we're best known for and where our expertise lies. In response to growing concerns in the thermal heavy oil industry around escalating costs for in-situ facilities, specifically SAGD well pads, Wood Group developed a low cost, standard SAGD well pad design.

The adoption of our standard SAGD well pad design allows owners to move immediately to a low cost design and execution methodology.

Wood Group Standard Well Pad Design

When you order a well pad from Wood Group you are buying an engineered product. We have integrated engineering drawings on a per module basis and these require no modification for fabrication and minor site specific inputs for Issued for Construction (IFC) packages.

Our design accommodates pad sizes up to 12 well pairs and consists of the following modules:

- Inlet header module (IHM)
- Production modules (3WP and 2WP)
- Motor control centre (MCC)

Design Advantages

- Flexible IHM to accommodate a variety of layout options without redesign

- Reduced plot size
- Multiphase metering equipment instead of test separator
- Remote controls panels / remote EHT panels – testing is completed at the fabrication shop

Helping our clients achieve their goals

Our program is based on a disciplined Engineering, Procurement, and Fabrication (EPF) execution model which provides the following advantages:

1. A proven, low cost, fit for purpose design that meets or exceeds current industry standards
2. Avoids over design and optional requirements that add cost and complexity
3. A proven mechanism that allows for low cost template replication of the design reducing engineering work hours and significantly reducing schedule
4. A commercial model that shares risk and reward and drives costs down on subsequent pads
5. A project team who will manage all interfaces with vendors and fabricators which reduces risk and owner costs
6. With a clear procurement scope we will negotiate volume discounts to lower material costs

Contact us

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Central Processing Facilities

Wood Group is an industry leader in engineering, design and construction of central processing facilities (CPF). Over the past 10 years we have delivered Pre-FEED, FEED and detailed design for in-situ oil sands projects for industry leading producers. The combined capacity of these plants was 1,128,120 BPD.

Our subject matter experts understand the technical challenges of balancing cost with constructability, regulatory compliance, safety, operability and maintenance of CPFs. Process efficiency is of critical importance when designing an energy intensive processing facility and our Process Engineering Group contains some of our industry's leaders for thermal heavy oil CPFs.

Why Wood Group?

- Templated designs for a range of facility sizes and phases
- Ability to adapt to a variety of process / technology preferences or constraints
- IFD templates saving front-end engineering hours
- Established relationships with vendors, fabricators and constructors
- Established process configuration and plant layout
- Established specification and standardized equipment
- Use the same fabricators, vendors, assemblers and construction contractors
- Predictable construction schedules