

TAQA



LOCATION

Northern Montana, USA



PROJECT DESCRIPTION

TAQA North is an Abu Dhabi based energy producer currently developing the Flat Lake area located in Northern Montana, along the Canada/USA border. As TAQA began an aggressive exploration and production expansion in the area, centralized oil production facilities were required to update existing smaller remote batteries and to increase production capacity.

The oil is being produced from the Bakken Formation, which holds reserves of sweet light crude oil and formation gas. The new production facilities are designed to meet updated environmental regulations on flaring practices with capabilities to distribute normally flared gas to a central facility for power generation. On-site power generation is also required as utility power is not reliable during periods of extreme winter weather. The facility normally operates using utility power, but due to severe windstorms, back-up power generation was integrated into the power distribution system. The power generator is designed to run off formation gas and can operate

normally to offset utility power consumption. A diesel backup unit is also supplied to minimize down time of the facility as fluctuation in gas production are expected and during routine maintenance. The facility will also power two remote down hole electric submersible pumps (ESPs) utilizing sub-surface medium voltage power distribution, for enhanced oil recovery. The power system will enable TAQA to minimize downtime, and maximize their production revenue.

Drakken personnel were responsible for FEED, and engineering of electrical, instrumentation and automation systems for the project. Drakken's engineering and project management teams completed all work out of Calgary, Alberta, Canada.

Site operations of the batteries began in Q2 2012.

PROJECT HIGHLIGHTS

PROJECT VALUE	\$8,000,000 USD
PROJECT TIMELINE	7 months
TYPE OF EQUIPMENT	Expandable multi-well oil battery
PRODUCTION CAPACITY	Up to 10,000 bbl/d
SCHEDULE	Delivered on time
SAFETY	No lost time accidents