

# Oil & Gas Project Note

**Customer:** Tengizchevroil

**Project:** Tengiz Wellfield / Processing Plant

**Location:** Tengiz Wellfield / Processing Plant

**Application:** Wellfield, gathering system, treating, fractionation, utilities, and rail loading.

## General Description

Tengizchevroil is a joint venture with Chevron Corp. (45%), Kazakhstan (25%), Mobil Corp. (25%), and LukArco (5%) as partners. The Tengizchevroil joint venture began transporting crude oil to eastern Europe in 1994, marking the official start of a multibillion-dollar project, called TCO. This has been one of the most-publicized and largest projects in Kazakhstan recently.

TCO's crude oil production from the giant Tengiz field has risen every year from approximately 20,000 b/d in 1993 to 190,000 b/d in 1998. The TCO consortium plans to raise output to 240,000 b/d by mid-2000.

Chevron, operator of TCO, embarked on a modernization plan to replace aging Westglen RTU's at the well field and an older Bailey system in the processing plant, as well as associated utilities and a rail loading system.

## Scope of Honeywell Supply

### Systems

- TPS to replace Bailey system for process trains KTL-1 and 2 and Utilities
  - PlantScape SCADA w/ Allen-Bradley PLC for wellfield monitoring and control, replacing Westglen RTU's
  - FSC to replace existing Fire & Gas and Burner Management systems
- Infrastructure for Information Technology

## Services

- FEL Studies – over 100 small projects
- Project Management
- Procurement Services
- Instrument Database using REBIS
- Upgrade over 1000 P&ID's to Intelligent P&ID's
- Data Sheets / Loop Sheets / E&I Packages
- Configuration
- Staging & Testing
- Expediting & Transporting
- Site Installation – Turnkey
- Hot Cutover & Commissioning

## Results

This project and operations associated with it have delivered over \$50MM to shareholders.

## Key Winning Strategy

The level of local support was critical in this win. The site indicated that they wanted Honeywell even though there was significant support from Chevron for a Foxboro solution.

**Startup Date:** 1996

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