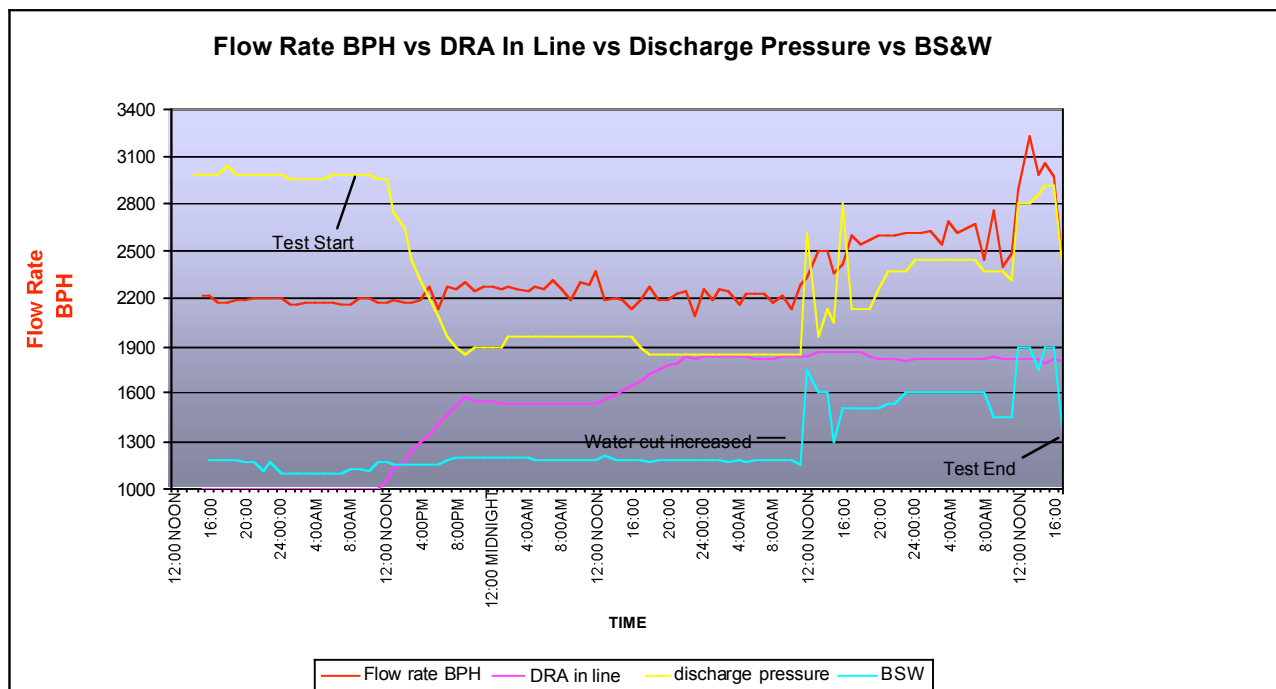


**Offshore Application:**

**LP™ 100 Performance - Variable BS&W Concentration**



**Challenge**

Increase field oil production, while the current offshore water separation system is limited.

**Objectives**

Evaluate the performance of LP. 100 Flow Improver under different BS&W concentrations to determine the maximum capacity of the pipeline with higher oil and water production. The higher field production will be coming on-line from new wells under the current drilling program.

**Background Data**

Crude production is transported to onshore facilities via a 16-inch pipeline. The current separation facilities remove the water and the 3-6% BS&W crude is pumped to shore.

**Performance Summary**

LP. 100 Flow Improver dropped the pressure on the pipeline by 58% with a 6% BS&W crude. Field performance

showed that net oil production could be increased by 51% with 30% BS&W crude. The increased production was maximized, while all three asset pumps were in operation.

**Benefits**

The additional production will enable the operator to realize potential annual revenue increases in excess of \$ 240MM, demonstrating that LP. 100 works effectively in systems where the water cut could be systematically increased.

**Additional Services**

In addition to the supply of Flow Improver products, CSPI also provides hydraulic predictive performance calculations and technical service support for all water, crude oil and refined products pipeline systems considered for analysis.

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