Oil Production Company Increases Operational Efficiency By Reducing Time Spent at Wellsite

RESULTS

- 5% less time spent at the wellsite due to dramatically reduced failure rates and troubleshooting
- Increased field production because of time saved
- Reduced personnel risks with less time spent at the well

APPLICATION
Pressure measurements on all new oil producing wells placed online. Application Characteristics: Wells are part of water and steam injection fields with less than 100 psi of tubing pressure with an average production of 25 bbls/day.

CUSTOMER
Leading oil producer in North America

CHALLENGE
Increasing demand for oil is driving the need to drill more wells. The growing number of wells and the use of low quality instrumentation was putting a strain on field operations. More maintenance and scheduled wellsite visits placed an emphasis on maintaining production rather than optimizing and increasing field production. This company’s fields have more than 3,000 producing wells and an additional 300 wells being drilled each year. The cost of maintaining high producing wells was four times the cost of low producing wells.

The customer was using pressure instrumentation for the following applications:
- tubing and casing (annulus)
- flowline measurement
- flow pattern detection
- progressive cavity pump monitoring

For more information:
www.rosemount.com
SOLUTION

In order for field operations to refocus on increasing field production, the oil producer turned to the Rosemount 3051S Series from Emerson for all their new wells and high producing retrofits. Utilizing the industry-leading pressure transmitter, the oil producer experienced the value of the 10-year stability guarantee and 12-year warranty, which allowed field operations to focus on value added operations, such as field optimization. Also, by reducing time spent at the wellsite troubleshooting or replacing faulty instrumentation, personnel safety risks were reduced.

The Rosemount 3051S provided the highest accuracy available on the market to aid their reservoir engineering groups with field characterization and determining ideal well locations. The 3051S also provided a scalable platform so they can easily upgrade to wireless or advanced diagnostics, meeting their expanding application needs.

Even though their wells averaged only 25 bbls/day (equivalent to 230 mcf/day at $65/bbl and $7/mcf), this operator was able to concentrate on field optimization, justifying the need for the highest quality pressure instrumentation.

RESOURCES

Rosemount 3051S Series of Instrumentation
http://www.emersonprocess.com/rosemount/products/pressure/m3051s.html