

Red Eye[®] Multiphase Flowmeter System

Reduces Well Test Cost by \$10 Million Per Year, Increases Test Frequency by 300%

Objectives

- Decrease the overall costs and HSE risks of well testing in an heavy-oil field. The wells operate on progressing cavity pump (PCP) and electrical submersible pump (ESP) artificial lift systems.
- Increase well testing frequency and accuracy.

Our Approach

- Following a thorough pre-job analysis, a Weatherford testing and production services team recommended replacing the conventional well testing operation with six Red Eye multiphase flowmeter systems (REMMS). The small-footprint system enables real-time measurements that increase the testing efficiency and frequency.
- The team deployed the six REMMS systems in strategic locations throughout the field.
- The REMMS system replaced the conventional well-testing operations, reduced field personnel by a 10:1 ratio, reduced the amount of diluent by 70%, and increased testing rates from 50 to 150 per month.

Value to Client

- The Weatherford REMMS system reduced the costs of well testing in the field. It significantly reduced the number of field personnel and diluent, which saved the operator US \$10 million compared to conventional well testing.
- The system reduced the average single-well test time by 72 hours. This enabled the operator to increase the testing rate from 50 to 150 per month.
- The system delivered well-test data at the following accuracy rates: liquid $\pm 5\%$, gas $\pm 5\%$, and water cut $\pm 2\%$.
- The system reduced HSE risks by significantly reducing the number of field personnel.



The compact Red Eye multiphase flowmeter system reduced the average single-well test time by 72 hours.

LOCATION

Llanos, Colombia

WELL TYPE

Artificial lift heavy oil

OIL TYPE

8° API crude

DOWNHOLE TEMPERATURE

120°F (49°C)

PRODUCTS/SERVICES

- Testing and production services
- Red Eye multiphase flowmeter

