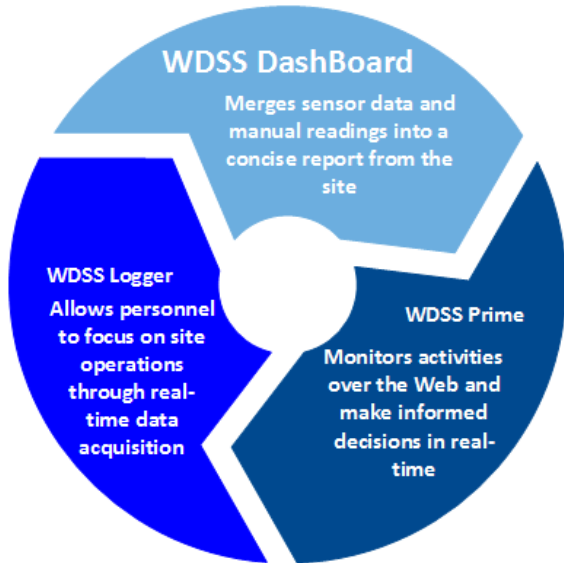


WDSS DashBoard

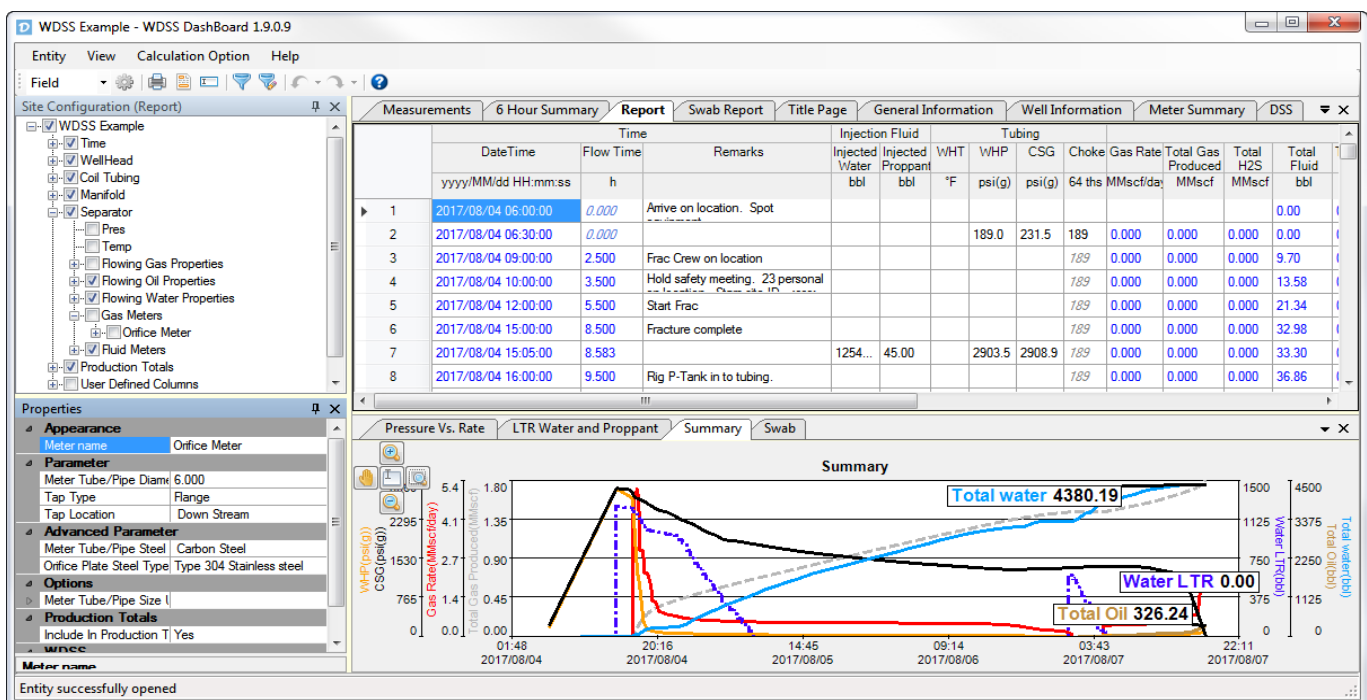
WDSS DashBoard is an operations monitoring solution for data collection and reporting from the field in real-time. Capture your data in real-time or by manual data entry, and quickly generate detailed plots and worksheets for analysis and professional reports.



- WDSS DashBoard is used for, but not limited to the following operations: production testing, frac flowback, water filtration monitoring, adjacent well monitoring, pipeline pigging and bottom hole pressure monitoring.
- WDSS DashBoard advantages include: being a standalone database solution, using industry standards for calculating rate, and having a fully customizable reporting system that allows for easily generated visual plots and custom worksheets used for analysis and professional reports.
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- You can make informed decisions from manual or real-time data, streamed online to our website WDSS Prime for client access at the office or on-the-go with their mobile device.

WDS Solutions helps users transform proprietary data into usable insights for future completion strategies by collecting and streaming top tier data for analytics.



Calgary Alberta Canada
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wds-solutions.com

Real-time Data Acquisition

Via WDSS Logger, connect to any surface or sub-surface instrumentation that uses the following standard Modbus Protocol: TCP/IP, Serial/USB RS-485 and RS-232, and TCP/IP.

Use the Cloud to Monitor Test in Real-Time

With WDSS DashBoard's integrated connection to the WDSS Prime website, you and your clients can securely monitor how operations are progressing with instantaneous updates to plots, gauges and data tables.

Gas Calculations

Gas rates can be calculated using any of the following meter types:

- AGA 3 / API 2530-92 Orifice meter
- AGA 11 Coriolis meter
- Cone meter
- Flow prover & Choke
- Flow computer measured rates and volumes

Gas properties can be calculated using:

- AGA 8 Detail and Gross
- Benedict Webb Rubin equation of state method (BWR)

Monitor a commingled mixture of any 3 of these (N₂, CO₂, C₁, C₂, C₃) frac gases and report net reservoir gas.

Fluid Calculations

Fluid rates can be calculated using any of the following meter types:

- Coriolis meter
- Tank level meter
- Flow computer measured rates and volumes

Oil shrinkage, GOR₂ and liberated gas are calculated using:

- ASTM 1250D for API
- Vasquez & Beggs
- AlMarhoun

Separate fluid production into oil (stock tank equivalence), water, sediment and proppant.

In the Field

- Monitor the data acquisition and resulting calculations in real-time.
- Start a new job immediately by cloning a previous job.
- Create multiple worksheets to simplify the viewing of data and results.
- Create multiple plots emphasizing trends and diagnostics.
- Prepare custom documents to be included in reports.
- Securely transfer reports and other files to WDSS Prime website for access by your clients.
- AER (Alberta Energy Regulator) PAS (Pressure ASCII Standard) formatting and submitting.