

# SANJEL TREATMENT ANALYSIS & RECORDING (STAR) CENTER



## FEATURING SANJEL-DEVELOPED PLC CONTROL SYSTEM

Sanjel's Treatment Analysis and Recording (STAR) Center is the focal point of any fracturing job, enabling our technical professionals and customers to monitor treating pressure, annulus pressure, BHP pressure (calculated or actual), stage totals, net pressure plot, digital rates, proppant concentrations and stage displacements within the wellbore. Customers have the opportunity to monitor the fracturing job in the climate-controlled STAR Center on location, through real-time satellite transmission at Sanjel's Head Office in Calgary, or via web-based viewing software. Sanjel's newest STAR units come PLC-equipped for increased versatility and reduced setup time, and allow for more precise control of fracturing operations.

### Applications

- Conventional fracturing operations
- Foam fracturing operations
- High Foam Quality (FQ) unconventional fracturing systems
- Fracturing through coiled tubing
- High rate slick water fracturing

### Software

- FracPro Xchange monitoring software
- FracproPT – 3D hydraulic fracturing simulator
- Elluminate® web-based viewing software

### Instrumentation and Control Systems

- 4 – 17" LCD color screens
- 1 – 19" LCD customer screen
- Sanjel-developed PLC based real-time data acquisition, plotting and transmission
- Post treatment data transfer
- 46 analog inputs and 9 network unit connections
- Mini-Frac analysis
- Post-job display and analysis
- Satellite communications
- Monitoring and recording of:
  - Fluid and fluid slurry rates
  - Low and high pressure proppant densometer readings
  - Tubular and annulus pressure
  - Chemical additive rates
  - N<sub>2</sub> and CO<sub>2</sub> rates
  - Actual or calculated BHP