ENERGES

Process Surveillance and Automation

Enhance production, limit risk, add versatility, and reduce manpower needs with a network of sensors, software, and data transmission capabilities.

APPLICATIONS

- Well testing operations.
- Production monitoring and management.

BENEFITS:

- Automated and real-time well test reporting of all key variables.
- For production systems and fields, real-time process parameters available remotely.
- Auditable and reliable data record of all parameters.
- Alerts can be transmitted by email or SMS to required personnel – improving response time and reducing downtime.
- Can reduce the need for personnel by improving effectiveness through data driven planning.
- Increases production by reducing downtime – problem wells receive immediate response.
- Wireless sensors eliminate tripping hazards.

FEATURES:

- Electronic collection of field parameters.
- Data transmission to secure website.
- Real-time data pushed to site at data rates of up to 1 per second.
- Redundant data back up.
- Email and SMS alerts can be configured to defined recipients..
- Modbus communication standard.
- Class 1, DIV 1 and Class 1, DIV 2 sensors available as needed.
- Local wireless data communication on location reducing / eliminating untidy cables .

The ENERGES process surveillance and automation system can be applied to well testing applications as well as a variety of production processes and systems to limit risk and ultimately, enhance production and safety. The system is an application specific design including:

- Sensors for monitoring temperatures, pressures, flow rates, fluid levels, gas detection, and any other modbus capable device.
- Software to capture, analyze, and summarize information being gathered.
- And data transmission capabilities to enable remote monitoring in a control room environment if appropriate.
- Automated alarms and alerts via SMS and e-mail based upon configuations settings.

The system is designed for quick deployment and all components have rugged engineering to sustain proper function in tough oilfield environments. The user interface is easy to learn and use in order to maximize the system effectiveness quickly.

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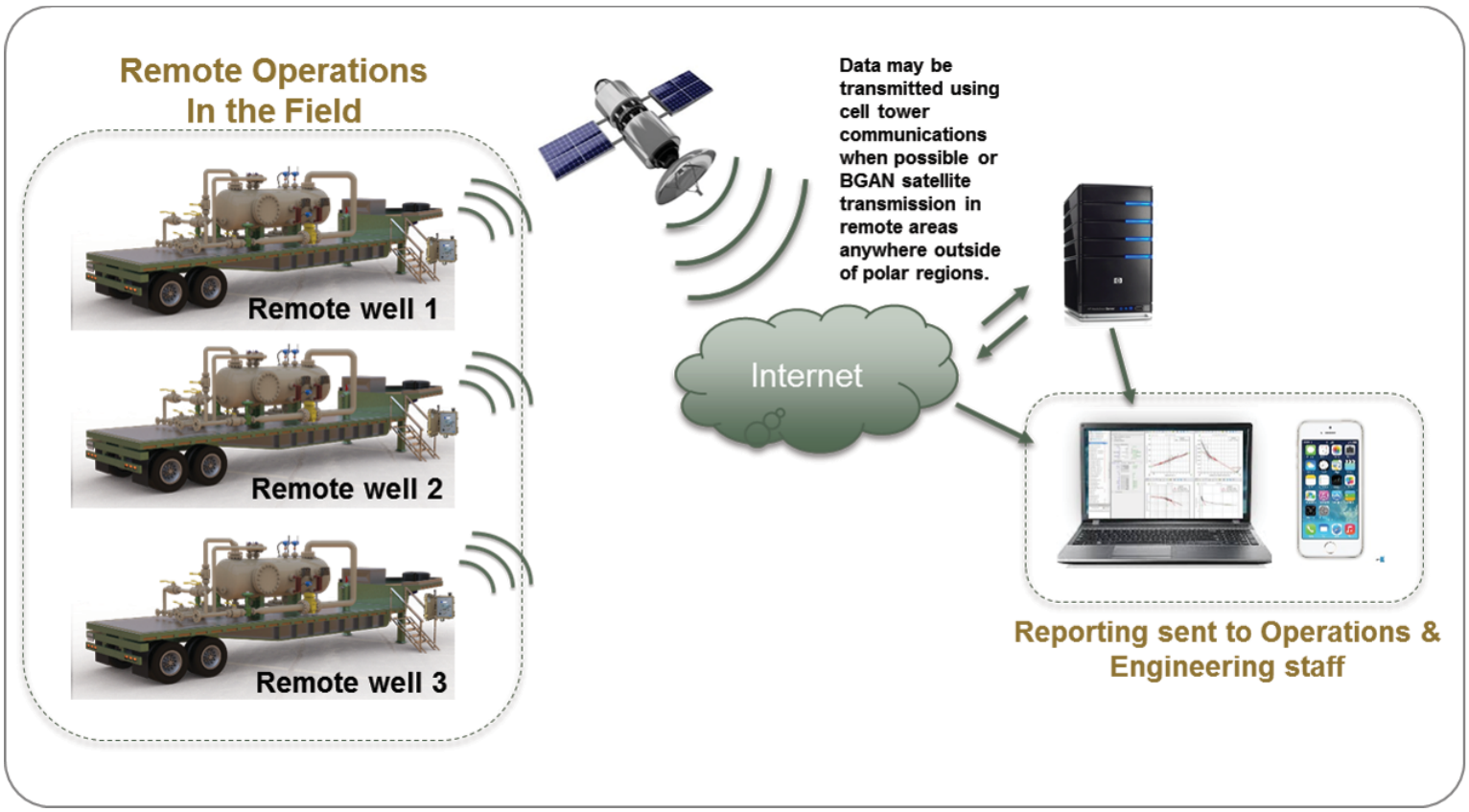
Measurement Capabilities

Sensor	Range	Resolution	Type	Application(s)
Pressure	Scales to 15 ksi	0.1% Full Scale	Quartz, Strain	Well Head Process Equipment
Differential Pressure	Scales to 800 inches water	0.1% Full Scale	Strain	Gas Measurement Filter Differential
Temperature	Range -50°F to 400°F	0.1% Full Scale	Thermocouple	Well Head Temperature Process Equipment Temperature Meter Correction Temperature Tank Temperatures
Level	0 to 50 feet	0.2% Full Scale	Magnetic, Guided Wave Radar, Sonic, Resistivity, Differential Pressure	Separator Levels Tank Levels Pit Levels High / Low Level Switches
Liquid Meters	Low Flow	+ / - 2%	Various	Chemical Injection
	Oil & water production up to 50k BBL / day	+ / - 1%	Turbine, Mass, Positive Displacement, Venturi, Coriolis	Liquid Flow Rates at High and Low Pressures
Gas Meter	Low Rate	+ / - 2%	Differential, Mass, Turbine, V-Cone	Blanket Gas
	Production rate up to 200 MMSCF / day	+ / - 1%		Production Flow Rates
Gas Detection	Various	Various	H_2S, LEL, CO_2, Other	Process Safety and Loss Prevention: Oil, Gas, Water Facilities
Rotary Equipment	Various	Various	Pump Rates, RPM, Vibration, Temperatures, Pressures	Remote pumping facility monitoring
Integrity	Various	N/A	Erosion Monitoring, Infrared Surveillance	Sand monitoring applications Electrical and process annomolies