

FieldDIRECT®

FieldDIRECT Improves Field-to-Office Communications



The Source
for Critical Information and Insight™

Case Study

Business Benefits

- Engineers and managers easily see increases or decreases in production.
- Range takes action to troubleshoot problems within a day, several days sooner than before.
- Pumpers rapidly ramped up on FieldDIRECT.
- Staff at all levels shift time to analysis and decision-making, rather than entering, organizing and exchanging data.

Customer Profile

Range Resources is an independent oil and gas company that operates in the Appalachian, Southwestern and Gulf Coast regions. The company pursues a balanced growth strategy that targets exploitation of lower risk development drilling locations with higher potential exploration projects and a complementary acquisition effort. Proved reserves at the end of 2006 totaled 1.8 Tcfe, including 1.4 Tcf of natural gas and 53.7 million barrels of crude oil and liquids. In 2006, company revenues totaled \$780 million.

Business Challenge

Range Resources operates approximately 11,000 wells across 10 U.S. states. Keeping production levels up depends on quickly identifying and troubleshooting problems on standard and waterflood wells.

Until 2004, pumpers recorded production levels in 8-day gauge books. They faxed production in at the end of each day and handed in the books weekly. Faxes were not always reliable, and office staff had to re-enter data manually. As a result, engineers and managers inevitably looked at data that was several days old, delaying responses to production problems.



RANGE RESOURCES

“With FieldDIRECT, it’s all right in front of us. We can make decisions before problems affect production or injection. Within a day, we can take action. It has contributed to an increase in production because we can immediately see if wells are down and where we’re losing production.”

Pat Stevens, District Engineer

Pumpers Embrace FieldDIRECT

Range Resources brought in FieldDIRECT from IHS as its production data management service in 2004. Pumpers record production, pressure, volume, and other data right at the well. At the end of the day, they download that data and it is immediately available for engineers, production managers and operations staff for analysis.

FieldDIRECT offered the best combination of functionality and affordability for managing the data from the company's numerous producing wells, according to Pat Stevens, District Engineer for Range's Andrews County, Texas properties. **After initial training by IHS, pumpers began working with it in the field and found it straightforward and user-friendly.**

"When we started using FieldDIRECT, I thought we would have resistance to it, but everybody adjusted to it pretty rapidly. It's really easy to use," Stevens said. "Pumpers like not having to carry around as much paperwork in their vehicles."

With production data stored on their hand-held units, pumpers can look back at data for a specific well, said Randy Hall, Lead Lease Operator. "Instead of going behind my truck seat to look through notebooks for information, **I can see history going back a month right on my hand-held,**" he said.

Hall uploads his daily well data from home, eliminating the need to drive back to the office. He also appreciates the reliability of the process with FieldDIRECT. He can immediately go online to make sure his data uploaded correctly—a step that was impossible to verify when he faxed gauge sheets before. "I bring up the Web site and see it, and correct any errors. It's a breeze," Hall said.

Identifying Problems Several Days Sooner

Range Resources monitors production and injection wells using FieldDIRECT. Pumpers around the country enter information on individual wells or wells on a meter. As data

comes in, engineers and managers immediately have it to review and identify any problems affecting production.

With FieldDIRECT's graphical display, they can view full well histories and easily see any increases or decreases in production across wells, or changes in volume in water injection pumps.

Stevens manages 300–400 wells, about 50 of which are injection wells. Using a "tree" format in FieldDIRECT, he groups wells by location or type, such as injection. He can more easily see changes in groups of wells, as opposed to trying to spot variances in individual wells.

Stevens appreciates that he and field supervisors can view and discuss production data simultaneously. And likewise, he

values that the Fort Worth and Andrews offices see the same numbers and corresponding notes — minimizing calls back and forth.

He also uses FieldDIRECT's pivot tables to see cumulative production and injection numbers almost immediately. If values are off, he contacts pumpers to discuss possible problems and decide if they need to change injection rates or pressures.

"It's really easy to use. Pumpers like not having to carry around as much paperwork in their vehicles."

Pat Stevens, District Engineer

"With FieldDIRECT, it's all right in front of us," Stevens said. "We can make decisions before problems affect production or injection. Within a day, we can take action. It has contributed to an increase in production because we can immediately see if wells are down and where we're losing production."

Pumpers quickly integrated FieldDIRECT in their daily gauging, giving foremen, engineers, office staff and managers the information they need to pinpoint problems and address those problems — returning production to peak levels several days faster.

With FieldDIRECT, staff at all levels have shifted more of their time to analysis and decision-making, rather than entering, organizing and exchanging data.



For more information
1.800.527.7756
www.ihs.com/energy