DATA.
INSIGHT.
OUTCOMES.

Case Study

Leading Midstream Operator Uses Pressure Intelligence to Streamline Permitting and Strategic Planning

CLIENT PROFILE

A major midstream operator in the Permian Basin manages one of the region's largest networks of saltwater disposal (SWD) wells across Texas and New Mexico. With assets spanning multiple regulatory jurisdictions and operating across varied geologic formations, the company faces the dual challenge of maintaining disposal efficiency and meeting growing regulatory demands in a basin under increasing pressure constraints.

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THE CHALLENGE: Limited Pressure Visibility and Rising Regulatory Demands

As produced water volumes rose and regulatory oversight intensified, disposal operations were increasingly constrained by formation pressure. Traditional pressure testing required costly well shut-ins and extensive geological data collection, which were impractical across a broad portfolio. At the same time, regulators began asking operators not only for pressure values but also for evidence that those numbers were credible.

One company geologist noted, "We operate across a large footprint, but we weren't pressure testing every well. We needed an independent, trusted dataset that regulators would accept."

THE SOLUTION: Pressure Data from B3 Insight Available on OilfieldH2O

The operator subscribed to **B3 Insight's Pressure** dataset on OilfieldH2O, which integrates injection rates and pressures calibrated to downhole gauge measurements. This provided regulator-accepted, independent pressure data without diverting internal resources.

"When regulators asked us to justify pressure assumptions, we could point directly to B3's data. The supporting methodology was also accepted by the Railroad Commission, which proved pivotal," the geologist explained.

The reservoir team expanded the use of pressure intelligence beyond permitting. They began mapping pressure trends to forecast future injection constraints and integrating pressure data into reservoir performance models to refine expectations for well longevity.

"Without this data, we'd be forced to build reservoir models on sparse inputs or shut wells in for bottomhole tests. Now we can see pressure trends that align with our forecasts and directly support long-term planning."

Reservoir Engineer

THE RESULTS: Efficiency Today, Strategy for Tomorrow

By embedding pressure intelligence into core workflows, the operator realized both immediate and long-term benefits:

- **Faster permitting** – Applications once requiring days of analysis can now be supported in minutes with regulator-accepted data.
- **Lean operations** – A small team can oversee permitting and planning across a large portfolio with confidence in the data.
- **Stronger planning** – Early visibility into high-pressure zones reduces risk and improves capital allocation.

> **"Pressure growth directly affects well life. A forecast that once suggested 20 years of capacity may shorten to 12 if pressures rise faster than expected. That's invaluable for planning."**
>
> *Staff Engineer*

CONCLUSION

Faced with mounting disposal constraints and regulatory scrutiny, this leading midstream operator turned to B3 Insight for trusted subsurface pressure intelligence. The outcome: faster permitting, reduced operational risk, and a stronger foundation for long-term strategic planning.

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