

Sta-Live Extreme sets global records in ultra sour gas reservoir, unlocking full potential and substantially reducing legacy carbon footprint

CHALLENGES

- Stimulate extended reach open hole gas horizontal well (>13,000 ft) efficiently
- Large variance in permeability and pore pressure
- Total acid placement (heel to toe)
- High temperature conditions (>300°F)
- Ultra sour corrosive conditions (>23% H₂S)
- Reduce CO₂ emissions and carbon footprint

SOLUTION

- [Sta-Live Extreme™](#) polymer-free, single phase delayed acid system :designed to:
 - Achieve deeper wormhole access into the reservoir
 - Enhance zone-specific treatment along the wellbore
 - Maintain the high dissolving capacity of 28% HCl for optimal stimulation
 - Streamline operations
- Combined with [StimVision™](#) matrix acidizing simulation software to provide an engineered optimized solution
- A high-rate (100 bpm) matrix acidizing bullhead treatment was also performed

RESULTS

100 bpm
highest recorded pumping rate globally

>120%
increased productivity index exceeding customer expectations

99.6%
total interval coverage in >13,000 ft long interval

560 metric tonnes
reduced CO₂ emissions vs emulsified acid

“We are proud of the successful completion of our first acid stimulation job with this new breakthrough technology, Sta-Live Extreme™. It’s a testament to our commitment to excellence and innovation in the industry.”

- Drilling Engineering Manager



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The results from the FastLCA tool are a calculated estimate of the emissions from our product or services that covers all life cycles stages of that product or service from the cradle-to-gate or cradle-to-grave depending on the use cases analyzed. All estimates of carbon footprint are uncertain to some extent depending on available secondary and primary data used. Results are provided to illustrate the life cycle emissions from a given product or service that is used under certain conditions and assumptions and the results are not intended to guarantee or predict actual life cycle emissions of a given product or service. Our FastLCA is a life cycle assessment (LCA) method conforming to the underlying principles of ISO 14040/44 and ISO 14067:2018. The specific results of the FastLCA described above are based on specific operating equipment, engineering factors, industry aggregated data, transport assumptions, manufacturing assumptions, operating conditions, operating performance, fuel quality, and atmospheric conditions and the actual life cycle emissions from a product or service may vary based on the specific conditions and circumstances. Global record: first ever acid treatment with 28% acid strength and 100 bpm in these combined challenging conditions of 23% H₂S and temperature above 300°F.

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