



Keeping it in the pipe!



PROJECT CASE STUDY

Salt Dome Liquid Propane Capture
Mont Belvieu, Texas

Objective:

Propane salt dome cavern storage decommissioning prior to work over and inspection.

Situation:

Customer had ~240bbls of propane in an underground storage cavern remaining in the casing annulus that needed to be evacuated prior to regulatory mandated inspection. The historical process would use a flare to burn the product generating CO₂ emissions & losing valuable product.

ZENRG Solution:

Using ZENRG's patent pending process a multi phase cross-compression unit capable of 1500 Δp was used to displace the propane in the annulus transferring it to an adjacent line while preventing brine from going down stream into the product line. The unit transferred the propane into the adjacent product pipeline until brine made it to the surface. The connection to the well was then closed in and then the unit would continue to degas the brine and vessel until all the propane had been removed. Once the brine surfaced the unit was reconfigured via manifolds on the inlet and outlet connections to pump the brine in the vessel back into the adjacent brine pipeline leaving the storage cavern free of propane and ready for workover.

Conclusion:

The cavern was evacuated on schedule without flaring. Eliminating emissions, heat, noise and risk of fire. The cost of the cross-compression service was significantly offset by the value of the product recovered. This same process could be used for numerous other hydrocarbon contaminated in storage facilities.

ZENRG safely delivered the client a cost positive solution with ZERO Emissions

100%

Liquids Recovered

238 bbls

Propane Saved

\$8,000

Saved Product

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