

THE INNOVATIVE, CREATIVE, SAFETY CONSCIOUS CAVERN ENGINEERING COMPANY

OUR MISSION

Cavern Solutions, Inc. strives to be the premier engineering and technical consulting services firm for the solution mining and underground storage industry by providing first in class service and personal attention to every customer on every job.

OUR SERVICES

Our business is to design, construct, develop, maintain, and test wells and caverns in underground salt formations for the production of salt and bulk storage of hydrocarbons under pressure. The key to CSI's success is establishing trust with our clients and providing quality personal service.

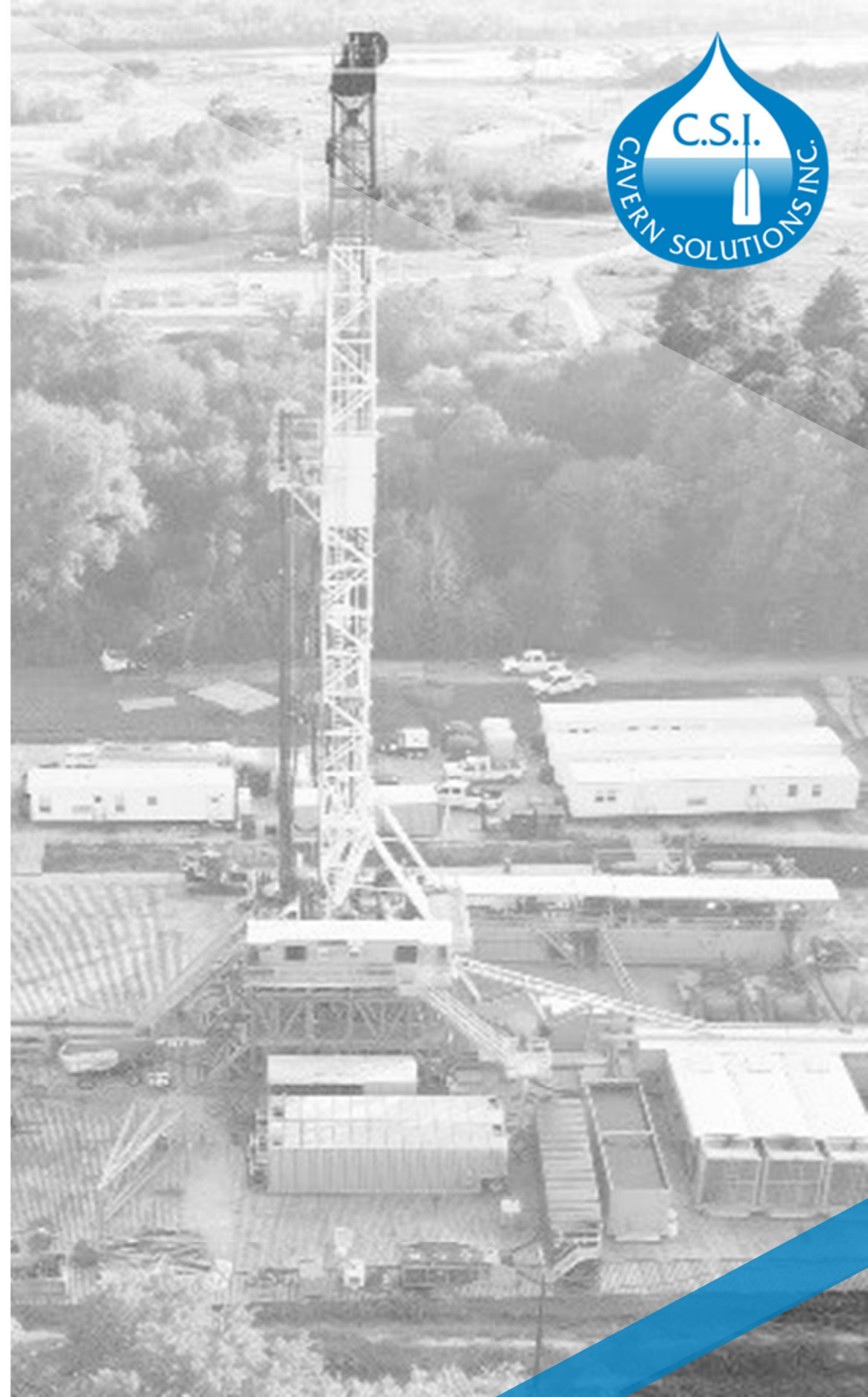
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OUR SERVICES



Design: From a simple well schematic to a complete leaching or storage facility, we can get the job done in record time with zero safety incidents.

Permitting: Whether State or Federal, we clearly communicate requirements, coordinate tasks, and present the final product clearly and precisely.

Training: Operator and compliance training; cavern and reservoir operations; wireline & workover operations; API 1170, 1171, 1114, & 1115.

Drilling: Even in the most challenging geologic conditions we can design, drill, and complete the optimum well to meet your operating needs.

Workovers: From pulling and running tubing to snubbing or remediating casing failures, we prioritize safe execution.

Testing: Quality techniques to meet all regulatory requirements and minimize down time, while confidently documenting asset integrity.

Coil Tubing: Coil Tubing operations on disposal wells, reservoir wells, or caverns to lift and clean out, acidize, inject solvent, drill out, or run specialty tools.

Snubbing Services: Engineering, design, coordination, and supervision for workover operations under pressure in cavern or reservoir applications.

Reporting: We provide timely, daily updates on job progress, accurate cost tracking, scope changes notifications, regulatory consulting, and complete project records within 30 days of completion.





OUR PROVEN RESULTS

- **Pioneered the first Helium well conversion to storage in the Americas** through the innovative application of advanced well technology and strategic, long-term regulatory planning.
- **Saved clients a cumulative \$850K through strategic, expert interventions**, suggesting a cost-effective alternative to well repair and remotely solving a distinct operational dilemma.
- **Achieved timely and cost-effective drilling, overcoming challenges** by successfully completing two 20" wells at Spindletop and four 24" re-entry wells at Pierce Junction.
- **Delivered flawless project results by drilling over 250 diverse wells** including geophone, gas relief, and tabular salt wells, processing 3D seismic mapping, designing INSAR subsidence projects, and executing large casing snubbing and multiple reservoir storage workovers.
- **Addressed drilling inefficiencies via advanced geological knowledge**, implementing rotary steerable techniques, pioneering cementing designs, ensuring brine sources, optimizing wellbore dimensions, and introducing specialized casing and wellhead designs for helium, hydrogen, and CO2 sequestration.

OUR EXECUTIVE LEADERSHIP TEAM



John Kyle, Managing Partner: Leveraging 30 years in the cavern industry, Mr. Kyle began with hands-on drilling, evolving to project management at Dow Chemical and Sabine Storage. Recently, they oversaw a \$20MM drilling program at Spindletop, under budget, now enriching Cavern Solutions with operational and strategic insights.



Joel Warneke, V.P. of Engineering: Dr. Warneke's career began as an underground engineer at Cargill Salt Mine. His quest for knowledge led to a Ph.D. in Mining Engineering, enriching his expertise in mine safety and operations.

Progressing through roles at Texas Brine Company, he adeptly managed well operations and responded to the Bayou Corne Sinkhole crisis. Currently, as Vice President of Engineering at Cavern Solutions, he excels in field planning, integrity analysis, and optimizing hydrocarbon storage, leveraging over 18 years of diverse technical and management experience.



OUR EXECUTIVE LEADERSHIP TEAM



Dean Tumlinson, V.P. of Operations: With over 10 years of experience generating \$30MM in revenue through 70 projects in the Gulf Coast and Midwest, Mr. Tumlinson's expertise spans engineering, operations, and project management, notably in a 20 Well Workover Package and Hydrogen Workover. Mr. Tumlinson excels in geology, subsurface activities, and managing HazMat. His leadership at Cavern has significantly improved daily management and adherence to CSI principles.



Ruben Rico, V.P. of Drilling Operations: With over 15 years in the oil & gas industry, Mr. Rico has advanced from a Roughneck to senior management, specializing in field operations and engineering consulting across North America. His expertise spans gas storage, salt formation drilling, and reservoirs like Wilcox and Eagle Ford. Known for leading large-scale operations and partnering with cross-functional teams, Mr. Rico excels in optimizing gas storage and exploratory wells, underscoring his role as a Subject Matter Expert in midstream/storage and upstream operations.



OUR CLIENT TESTIMONIALS

David Branch, COO: “After meeting and working with several large firms, we selected CSI as our cavern engineering experts to design, drill, and develop two new underground storage caverns wells at our Spindletop Storage Facility. CSI’s complete performance in all areas of the drilling project exceeded our high expectations. Their project management practices, responsiveness, communications, safety performance, and project execution brought the project in under budget, on time, and without incident.”

Michael Brandau, Director of Underground Storage: “CSI has been providing cavern oversight for our company for the last several years. Their performance and safety record are outstanding. Their expertise in the in the cavern business has been beneficial to us in making important financial decisions. On top of all this they are very ethical and I feel that they have our best interest in mind when decisions have to be made. “

Steven Tam, Cavern Engineer: “CSI has performed a variety of projects for me in the past and the best way I can describe their performance is that they treat each job as if they are the owner of our equipment. Their safety performance is excellent, and they always try to keep the cost of their jobs at or under budget, while still accomplishing the work with high quality. In addition, they tell me what I need to know, not what they think I want to hear.”

