

CASE HISTORY

MagTraC MWD RANGING™ INTERCEPTS TO PLUG AND ABANDON 1941 WELL

APPLICATION

Wellbore Intercept/P&A

TECHNOLOGY

MagTraC MWD Ranging™ and EM gyroMWD

LOCATION

West Texas

CUSTOMER CHALLENGE

A well originally drilled in 1941 had irreparable casing damage between 300 ft and 800 ft MD that resulted in unsuccessful P&A attempts using conventional methods. Because of the lack of a definitive target well survey, coupled with weak signals from the badly corroded string, a close proximity to the target casing had to be maintained, typically less than 5 ft. Regulatory P&A requirements called for abandonment plugs to be set at approximately 2,250 ft and at 4,000 ft.

SCIENTIFIC SOLUTION

Using Scientific Drilling's MagTraC MWD Ranging™, the target was detected and ranging was used to intercept the lower zone at 4,005 ft. The target well was successfully perforated and cement was pumped across the lower zone.

After setting a sidetrack plug, MagTraC was used to intercept the target well upper zone at 2,241 ft. The upper zone was also successfully perforated, cemented and abandoned by the customer.

CUSTOMER VALUE

The customer was able to satisfy the regulatory abandonment requirements for this project. Project Management had estimated a project duration of six weeks. However, the project was successfully concluded in 3-½ weeks. An entire package of MagTraC MWD Ranging™, MWD and Directional Drilling was provided by SDI.

