

CASE HISTORY

MagTraC™ LOCATES DAMAGED INJECTION WELL IN A GAS STORAGE CAVERN

APPLICATION

Magnetic Ranging, Wellbore Positioning, Gas Storage Well, Plug and Abandon, Access Independent Ranging

TECHNOLOGY

MagTraC MWD Ranging™, Keeper Gyro, Wireline

LOCATION

Covington County, MS

CUSTOMER CHALLENGE

After drilling two blind exploratory bores, the customer contacted SDI to find a ranging solution that could locate a damaged injection well which needed to be plugged and abandoned. The inaccessible target well was within highly resistive salt formations, ultimately restricting the types of ranging methods that could be deployed.

SCIENTIFIC SOLUTION

Scientific Drilling's MagTraC™ Magnetic Ranging was the ideal solution. Passive magnetic ranging measurements were taken from the two boreholes using an MWD probe in tandem with a gyro probe in memory mode. The ranging assembly was deployed on wireline. Magnetic anomalies were detected and evaluated, enabling the distance and direction to the damaged injection well to be reported to the customer. The customer was able to assess the feasibility of plugging and abandoning the damaged well based on the ranging information that SDI's MagTraC™ delivered.

CUSTOMER VALUE

Scientific Drilling provided a proven magnetic ranging solution capable of yielding accurate ranging measurements in high resistivity formations and was able to locate the damaged injection well for the client. The service was economical, efficient, and provided important information to the client within a few hours of call out. As a result of this success, SDI performed subsequent work with the same client.

