

# CASE HISTORY

## MagTraC MWD RANGING™ & gyroMWD BYPASS FISH AND RE-ENTER OPEN HOLE

### APPLICATION

Fish Bypass  
Wellbore Intercept

### TECHNOLOGY

MagTraC MWD Ranging™  
gyroMWD

### LOCATION

Northeast, US

### CLIENT CHALLENGE

An operator faced a 340 ft lost BHA, including RSS and drill pipe, and needed to bypass this fish and re-enter the open hole to recover production. All previous attempts to free the fish at 2,590 ft MD had proved unsuccessful. The customer needed to seal the wellbore in order to comply with the regulatory requirements to continue operations and frac the surrounding wells.

### SCIENTIFIC SOLUTION

Scientific Drilling's MagTraC MWD Ranging™ and gyroMWD services were selected to facilitate wellbore positioning around the fish. Ranging shots were taken at 3,100 ft after sidetracking from the whipstock that was set 130 ft above the fish. A total of twelve ranging shots were taken, showing no indication of the wellbore having been re-entered. It was then decided to revise the plan and set a whipstock 230 ft above the fish. Ten ranging shots were performed during this interval and drilling continued below the bottom of the fish. Reports showed erratic drilling parameters, variable ROP, and torque. SDI entered the open hole at an approximate depth of 3,000 ft MD with high ROP in changing mud conditions.

### CLIENT VALUE

The client was able to set casing all the way to TD and recover a significant section of the wellbore that was at risk of being lost. This saved the client more than \$3.5M in potential lost production and enabled them to proceed with operations as planned on the additional offset wells.

