

# CASE HISTORY

## MagTraC MWD RANGING™ SAVES POTENTIAL LOST WELL FOR CHESAPEAKE ENERGY

### APPLICATION

Fish Bypass,  
Production Recovery

### TECHNOLOGY

MagTraC MWD Ranging™,  
and gyroMWD

### LOCATION

South Texas, Eagle Ford

### CUSTOMER CHALLENGE

After drilling to TD, Chesapeake experienced a stuck pipe situation while tripping out of hole to run the completion string. After significant time spent attempting to free the stuck pipe, they were faced with an unretrievable 32' long fish hole at 2500' MD.

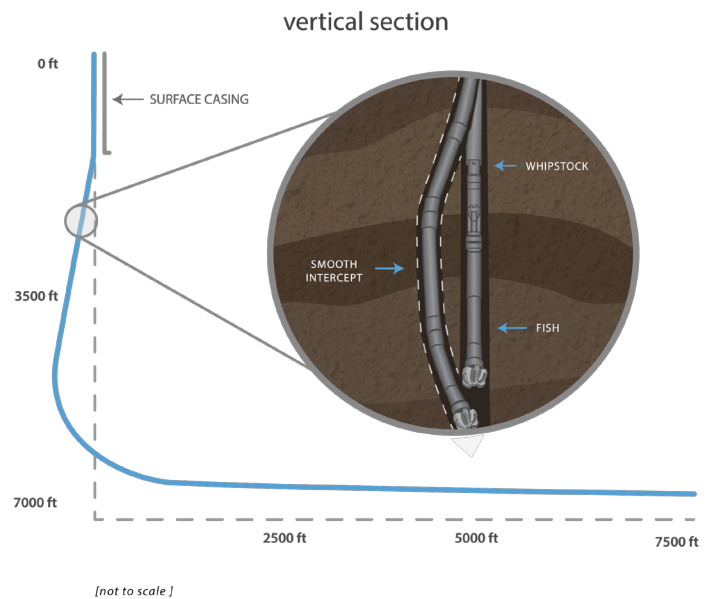
A simple sidetrack was not feasible given the expense associated with re-drilling nearly 12,000' of hole including curve and lateral. The existing open hole would not allow for a close offset well to be drilled and successfully stimulated with a multi-stage frac job.

### SCIENTIFIC SOLUTION

SDI's MagTraC MWD Ranging™, gyroMWD, and Directional Drilling services were combined to address this drilling challenge. A high accuracy gyro survey was run to determine the top of fish position. An open-hole whipstock was oriented and set immediately above the top of the fish. The well was sidetracked and MagTraC was used to monitor the fish position while maintaining a 1' offset at all times.

As bit depth approached the bottom of the fish, the well was oriented towards the fish and made contact. The bit tracked down the side of the fish for approximately 4' before reentering the original wellbore 1' below the base of the fish. Chesapeake was able to wash to bottom and successfully run and cement the planned completion string.

### FISH BYPASS



### CUSTOMER VALUE

Chesapeake was able to recover the entire original wellbore and successfully run and cement casing in the open hole below the fish, thereby averting the potential loss of a large number of productive acres. The solution allowed Chesapeake to produce the wellbore as intentionally planned, saving them an estimated \$66 million.

### TESTIMONIAL

The comprehensive technology solution from SDI enabled the ability to complete and produce the wellbore as originally planned with estimated savings of +\$66 million from a "saved well".

- Chesapeake Energy