Case Study
Abrasive Perforating

Slim-Hole Abrasive Perforating After Toe Sleeve Failure

Case Study No. 3201

DETAILS:

Location:	**South Texas**
Formation:	**Eagle Ford**
Casing Size:	**5 1/2” 23#**
Conveyance:	**1 1/2” Coiled Tubing**
Operation Depth:	**13,339’ (4065m)**
Well Orientation:	**Horizontal**
Fluid:	**Water**
Tools Used:	**1 1/2” Abrasive Perforating Assembly**

RESULTS:

A customer in the Eagle Ford had deployed a ball drop sliding sleeve system in one of their wells. The initiator toe sleeve on the system failed to open preventing them from being able to drop the first ball to begin their frac. Thru Tubing Solutions was consulted to design a “slick OD” abrasive perforator assembly that would be small enough to pass through the last sliding sleeve (1.70” ID) and perforate the first stage. Due to TTS’ extensive knowledge with abrasive perforating, an assembly was designed and built quickly and easily. With innovative tools, TTS was able to incorporate the XRV™ Vibration Tool to assist in getting the 1-1/2” coiled tubing to depth. Perforations were successfully made in the first stage and proper injection rate was achieved to pump down the first ball.

HIGHLIGHTS

- Customized Design
- Innovative Tools
- Extensive Knowledge