

Case Study

Abrasive Release Connector

Abrasive Release Connector Saves Operator 20,801' of CT
Case Study No. 3601

DETAILS:

Location:	Oklahoma
Conveyance:	2-3/8" Coiled Tubing
Operation Depth:	20,801'
Well Orientation:	Horizontal
Fluid:	Abrasive Sand Slurry
Flow Rate:	2 BPM
Total Amount Pumped:	57 BBL
Tools Used:	3-1/8" F5 Milling Assembly 2-3/8" Abrasive Release Connector

RESULTS:

During a standard milling operation, the BHA became stuck in the hole after milling through 20 plugs and reaching a depth of 20,801'. With unsuccessful attempts to break free over the course of 42 hours, it was decided to activate the Abrasive Release Connector. An activation ball was dropped from surface to seal off the normal "flow through" path and redirect fluid to the cutting mechanism. Once redirected, an abrasive slurry was pumped through the connector to sever the pipe, separating the CT string from the BHA and allowing the CT to be pulled out of the hole. TTS proceeded to successfully fish the stuck BHA, run in hole again, and continue milling the remaining 8 plugs to tag TD at 22,880'. Not only did the use of the Abrasive Release Connector leave a clean fish neck to be retrieved, it enabled 20,801' of coiled tubing to be removed from the well, undamaged, saving the operator a substantial expense.

HIGHLIGHTS



- Provided shorter BHA
- Slick OD, equal to CT size
- Saved the operator 20,801' of coiled tubing



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