

Thru-Tubing Fishing Tools Retrieve PX Plug and Slickline BHA, Save \$1 Million Recompletion Job

Objectives

- Clear a stuck slickline bottomhole assembly (BHA) from a 4 1/2-in. gas-injector wellbore. The BHA had become stuck during an attempt to retrieve a stuck 3.813-in. PX plug. Because multiple attempts to retrieve the PX plug via coiled tubing and slickline had failed, the operator planned to recomplete the well upon retrieval of the BHA.

Our Approach

- Weatherford deployed a thru-tubing fishing services team. They rigged up and then ran a fishing BHA with a flow-release overshot and retrieved the stuck slickline BHA. Based on the efficiency of that fishing operation, the operator decided to give Weatherford a chance to remove the stuck PX plug and avert a costly recompletion operation.
- The fishing team rigged up and then ran a 4-in. GS-style pulling tool. They successfully engaged the fish. When the pulling tool reached the surface, however, the team learned that only the fishing neck of the PX plug had been retrieved. The Weatherford team suggested milling the remaining 6-in. PX plug body. The customer was initially about potential milling damage to the tubing; but based on the Weatherford team's global track record of successful, non-damaging milling jobs and a simulation of the proposed job, the client approved the milling operation.
- The team rigged up a milling BHA along with an eCTD™ motor. They ran the tools downhole and milled the plug body until the slips were sufficiently loosened. They rigged up and then ran a fishing BHA and retrieved the PX plug body.
- The operation was completed without any additional nonproductive time or stuck tools.

Value to Customer

- The Weatherford thru-tubing services team provided two successful fishing solutions to the operator's engineering team. They removed the slickline BHA as originally scoped for the job, and then devised a fishing and milling plan to remove the PX plug.
- The operation saved 7 to 8 days of rig time plus the costs of recompletion equipment and contractors. In total, the removal of the stuck PX plug saved \$1 million in additional recompletion costs.
- The operation validated a new and preferred solution for the operator to use in similar situations.



A Weatherford thru-tubing fishing services team retrieved a PX plug that was stuck downhole. This success eliminated the need for a costly recompletion operation and saved the operator 7 to 8 days of rig time.

LOCATION

Shaybah Field, Saudi Arabia

WELL TYPE

Openhole gas injector

CASING SIZE AND TYPE

7 in., 23 lb/ft

LINER SIZE AND TYPE

4-1/2 in., 11.6 lb/ft, J-55

FISH TYPE

- Slickline BHA
- 3.813-in. PX plug

PRODUCTS/SERVICES

- Thru-tubing services
- 2 7/8-in. eCTD motor
- MillSmart technology
- Flow release overshot
- Flow release GS pulling tool
- Flow release spear

