

# Integrated Fishing Service Case

## Challenges

1. Original production or completion string of overhaul wells takes up to 300 to 400 meters long. It always takes much time to wash-over and fish it out, especially in high angle deviation section of directional and horizontal wells.
2. Sand production makes stuck risk very high.
3. The Longer operation lasts, the bigger damages on pay-zone.

## Solution

Design special spear, cutting knife and washover shoe, reassemble the tools to conduct the work of washover, cutting with cutting in one-trip, thus reduce tripping time and avoid pressure stir.

## Performance

Save over 40% of man hour than traditional method.



Cutting and fishing assembly



Cutting surface of blank pipe



Integrated washover connector

