

# Off-center Fishing Service Case

## Challenges

1. Off-center of fish top brings engaging and high torque problems for washover, washing and fishing.
2. Due to the high position set of ESP packer, it is hard to impose WOB whiling milling operation.

## Solution

Design and manufacture matched off-center centralizer which can guide fishing tool engage fish top and have no side effect on rotating work string, i.e. fishing and washover could be conduct.

## Performance

Applied over 10 wells with great results.



Off-center centralizer



Run centralizer into hole



Fishing ESP packer

