## **Off-center Fishing Service Case**

## Challenges

- 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.





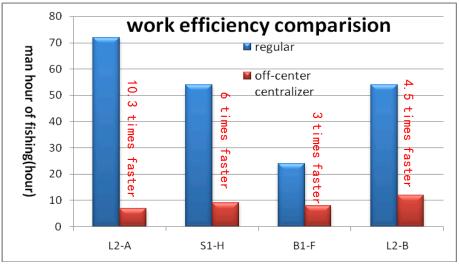
Off-center centralizer



Run centralizer into hole



Fishing ESP packer



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