

Case Study

Wellbore Cleanup and Debris Removal

Hard Scale Removal at Multiple Obstruction Points

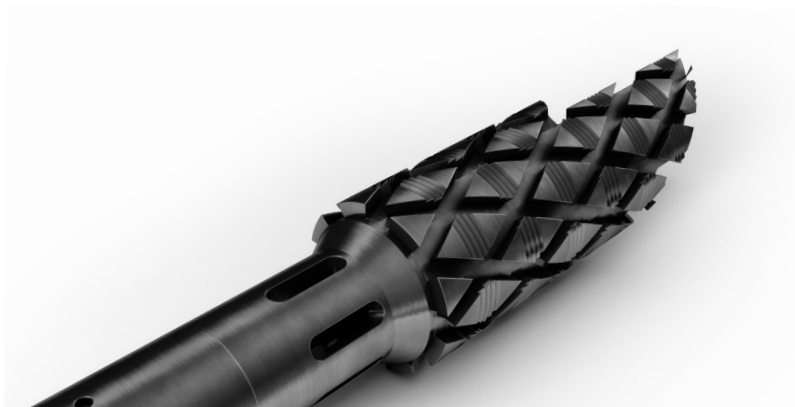
The Challenge

The customer required an effective means of clearing scale obstructions from 20 different wells. The scale was present between 1,750m and 4,000m well depth, and was caused by natural deposits (barium sulphate and strontium sulphate) with some compounded by cement and hard packed sand.

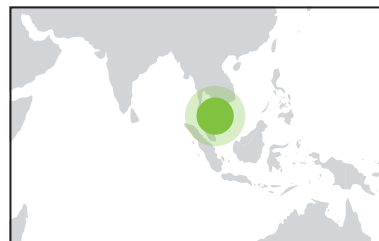
Considerations

During this campaign, 7/32-in braided line was used as high pick-up weights were anticipated, and also because of the customer's concerns about the tool becoming stuck which had happened in previous campaigns using standard broach systems.

The simplicity and robustness of the Torque-Action Debris Breaker ensures that a simple jar down is sufficient to free the tool when necessary, enabling it to be easily removed clear of the obstruction.



▲ Torque-Action Debris Breaker



Location: Gulf of Thailand
Customer: National Oil Company
Well Type: 2 7/8-in and 3 1/2-in Gas Producers

Products/Services:
Torque-Action Debris Breaker

19wells

Successfully cleared of scale obstructions

14MMscfd

Estimated net increase in production in the five wells monitored

Peak's Solution

In total, 20 wells were intervened, with 19 successfully cleared. The sectional lengths that were cleared of obstructions ranged from less than 1m up to 1,200m.

The recovered scale material included significant-sized pieces of very hard crystalline nature which the operator personnel claimed they had never recovered in such large sizes or with such ease before. Other deposits were also recovered including debris that was a mixture of cement and formation material.

The operator was highly satisfied with the performance of the Torque-Action Debris Breaker in clearing scale deposits that would otherwise have been subject to a prolonged campaign using standard broach systems or possibly using coiled tubing and chemical treatments.

Value to Customer

- Highly cost effective - the powerful performance of the Torque-Action Debris Breaker was key to clearing the well much faster than a prolonged campaign using standard broach systems
- Offers better flexibility for clearing further wells
- Reduces intervention times, and ensures that production can resume much quicker

As a direct result of the success of this campaign, the operator has confirmed that it will use Peak's Torque-Action tool as the primary system to remove scale/debris restrictions from now on. The operator believes that the net increase in production thanks to the Torque-Action Debris Breaker is in excess of 14MMscfd in the five wells where production increase was monitored (the average gas production for wells in this field is probably less than 10MMscfd).



▲ Torque-Action Debris Breaker

Product Code(s): Torque-Action Debris Breaker – 117

info@peakwellsystems.com

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