

**Location:** Thailand  
**Customer:** International Oil Company  
**Well Type:** 2 7/8-in training well

**Products/Services:**  
Two 2 7/8-in SIM Retrievable Bridge Plugs, SIM Running Tool, FlowThru' Check Valve, Latch/Seal stinger together with 5/8-in micro coil.

## Case Study Well Barrier and Isolation

# Trial Deployment of Slickline-Set SIM Plugs & Peak Latch/Seal Micro Coil Stinger for Selective Zonal Isolation and Treatment

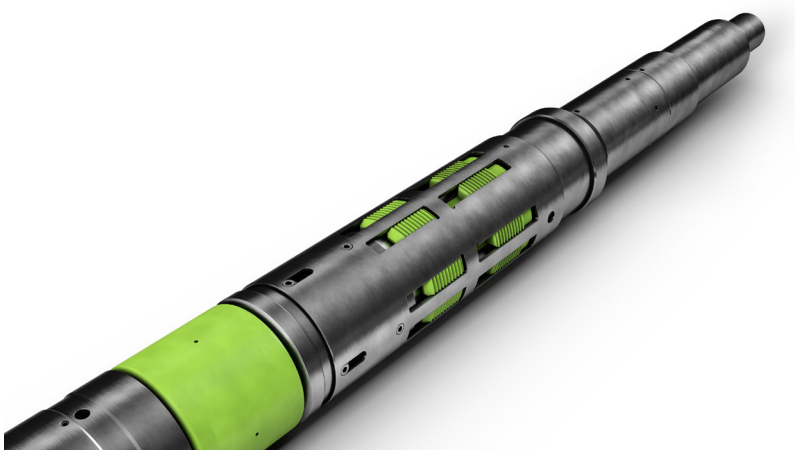
### The Challenge

The purpose of the trial was to confirm that micro coil and Peak SIM Plugs could be used together to isolate a specific producing zone, enabling treatment fluid to be injected into the zone. The treatment fluid could consist of stimulation fluid or water shut-off treatment.

### Considerations

The following key requirements and concerns were highlighted by the customer:

- Ability to isolate producing zones
- Micro coil to have the ability to latch and release from the Peak SIM Plug
- Emergency release features to be in place on micro coil tools
- Check Valve to prevent back flow when releasing



▲ SIM Retrievable Bridge Plug



Small footprint equals cost effective means to isolate, stimulate and clean the producing sandface

## 3day

Onshore trial conducted in a training well

## Peak's Solution

The three day onshore trial was conducted in a training well. Peak's SIM Retrievable Bridge Plug and prong were set as a barrier below the perforated interval of interest, and a second SIM Retrievable Bridge Plug fitted with a Melon-Type Equalizing Assembly and FlowThru' Check Valve was set just above the perforated interval.

The micro coil was run into the well to stab the stinger-latch assembly into the upper SIM Plug. Thereafter, treatment fluid was pumped through the coil into the isolated zone.

The dropball release function was checked - the ball pumped through the coil down to the stinger/latch to successfully release the micro coil from the upper SIM Plug.

Testing of the emergency release feature of the micro coil stinger assembly was also conducted - the FlowThru' Check Valve maintained pressure against the formation when the micro coil was disconnected and prevented the coil being blown uphole.



▲ SIM Running Tool

## Value to Customer

The successful trial using SIM Retrievable Bridge Plugs with micro coil will be of particular value to brownfield operators:

- A small footprint: cost effective means to isolate, stimulate and clean the producing sandface
- Ease of deployment
- Enhances performance of FloWell™ - to remove formation damage and improve well productivity
- Ascertained that the micro coil could stab into the upper SIM Plug successfully



▲ SIM Retrievable Bridge Plug

**Product Code(s):** SIM Retrievable Bridge Plug – 351

**info@peakwellsystems.com**

© 2019 Peak Well Systems Pty Ltd. All rights reserved. This material and everything contained herein is the property of Peak Well Systems Pty Ltd and is prepared for information purposes only. Nothing contained within these materials shall be treated as a representation to be relied on by any person or an offer for sale or contract of any kind whatsoever. Any reproduction or distribution without the express written consent of Peak Well Systems Pty Ltd is strictly prohibited.

September 2019 | CS-11