



Kinetics Controls
& Innovation Ltd

www.kcilttd.co.uk

Isolation Barrier System Plant Leak Sealing Solutions



UPDATED

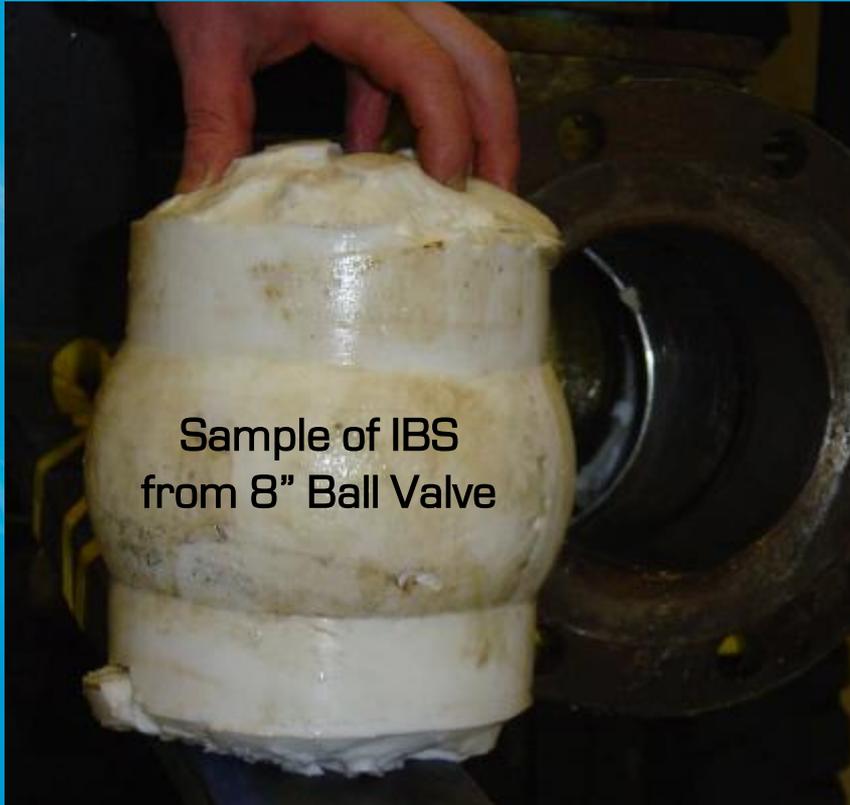
“KCI were fundamental in obtaining isolations on the MOL Pig Launcher to allow for the loading and launch of a Pig”





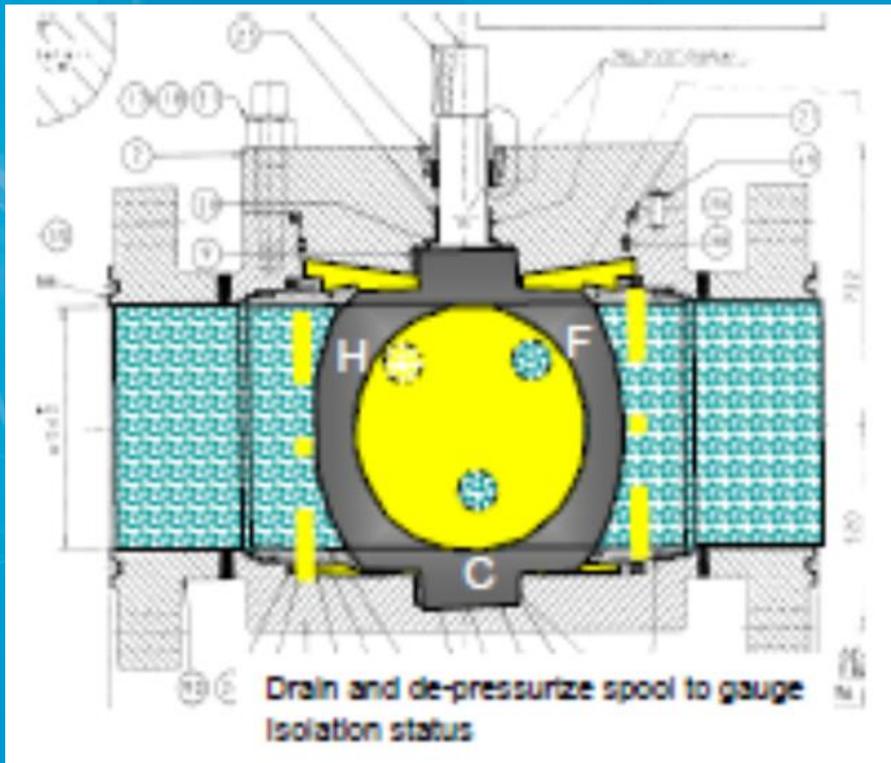
Background

- ❑ Due to leaking Ball Valves on the Main Oil Line (MOL) it has not been possible to establish the isolations and barriers required to conduct essential Pig launching operations.
- ❑ After a phase of PBU tests, both Inboard & Outboard Valves failed to hold back production pressure of approximately 49 to 64 barg.
- ❑ KCI were requested to create an isolation proposal to allow essential platform operations to continue.



Background (continued)

- ❑ Plant operations needed to remain online when the isolation operations were conducted.
- ❑ IBS-SX was selected as it is formulated to float on top of oil.
- ❑ IBS-SX was deployed as a liquid and converted into a flexible solid gel.
- ❑ Once the Pigging operations were concluded, the IBS-SX was turned back into a liquid by using IBS Breaker and drained out of the system.

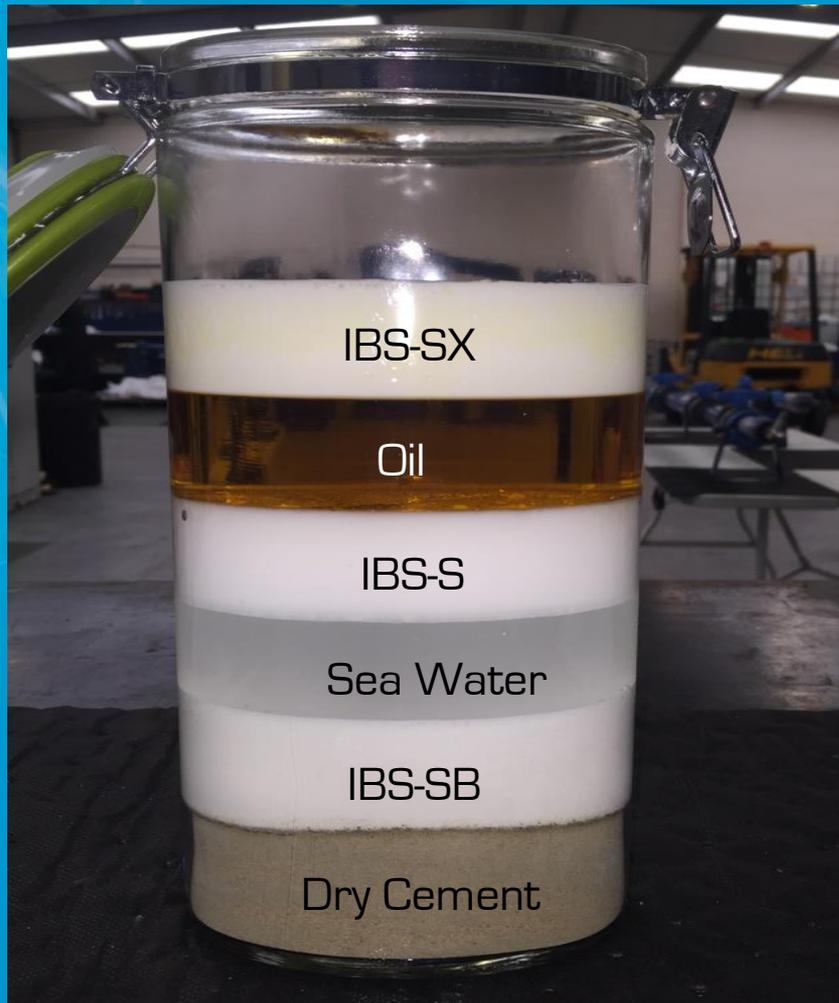


Deployment Detail

- ❑ Full Isolations were obtained with the plant online, negating the need to take a plant shut-down to load the Pig.
- ❑ 525 litres of IBS-SX were used for Isolations.
- ❑ The IBS-SX was Injected within 7-8 hours per 24" valve. Checked samples over 24 hour curing phase.
- ❑ Client tested each isolation by dropping pressure from 55 barg to 0 barg.
- ❑ No leaks were detected.
- ❑ 1200 litres of IBS Breaker was used to reverse the process.

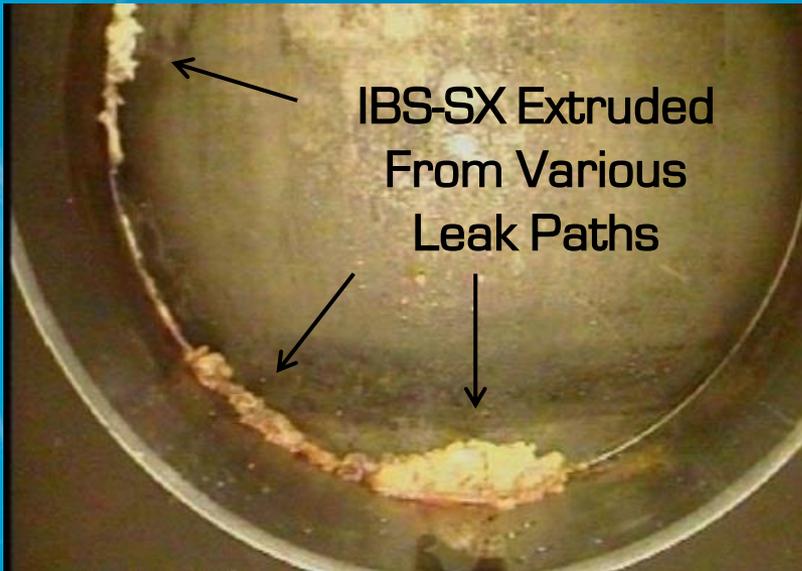


24" MOL Valve Isolations with IBS-SX



Product Details

- ❑ IBS-SX starts off as a liquid gel.
- ❑ IBS-SX is formulated to float on oil.
- ❑ It is injected into the Ball Valve and it “pushes” the hydrocarbons through the leak paths.
- ❑ Once cured to a flexible solid, it provides a barrier at either side of the 24” Ball Valve.
- ❑ The isolation held back 64 barg at one side with 0 barg at other side.
- ❑ Once Pigging operations were concluded, IBS Breaker was injected and turned the cured IBS-SX back into a thin liquid, which was drained off.



Client Quotes

- ❑ KCI were very accommodating with supporting schedule requirements.
- ❑ KCI team were helpful and worked well with the Offshore Core team to obtain isolations.
- ❑ KCI remains an important part of the Rig Isolation 'toolkit'

Objective Achieved

The Isolation was successful .The Pig was launched safely.
Our customer was extremely satisfied with our Safe, Effective & Efficient Isolation.

This Value Adding Isolation Operation saved the Well owner from a potentially time consuming and costly Ball Valve replacement or lost production from a Long Term Shut Down.