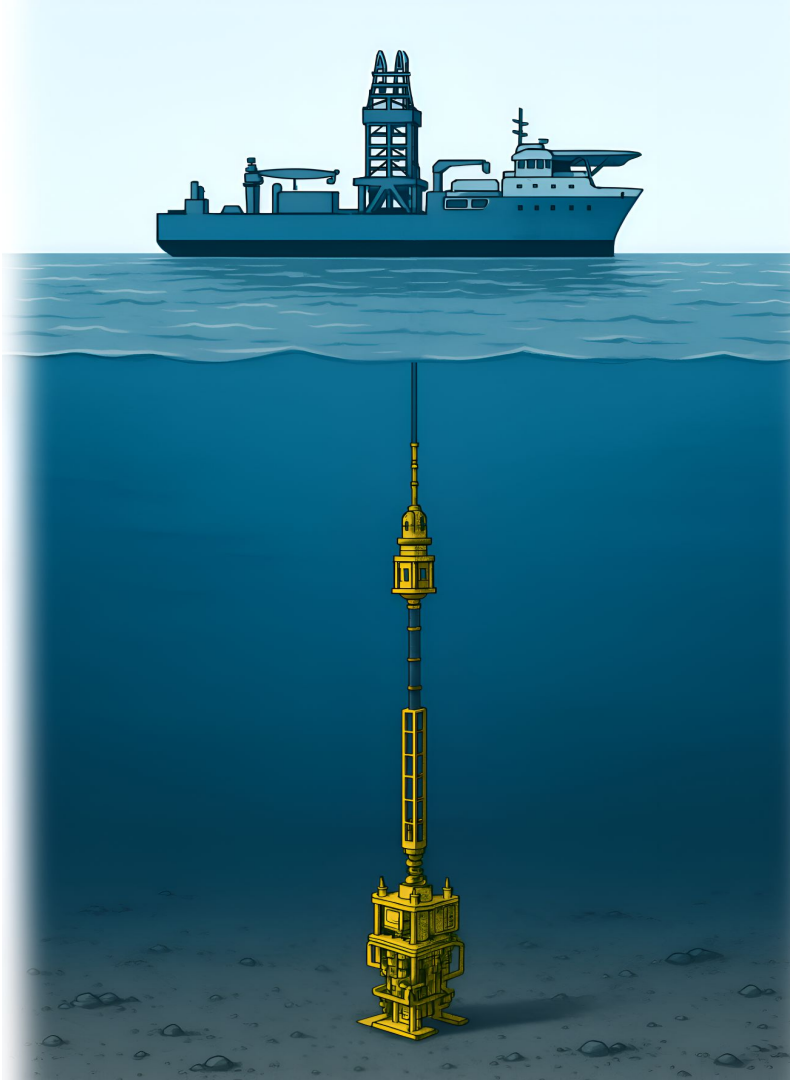
Rigless **PP&A**

What is the **real** showstopper?



Sander **H. Sand**

Mahmoud **Khalifeh**

Jon Asle **B. Byrud**

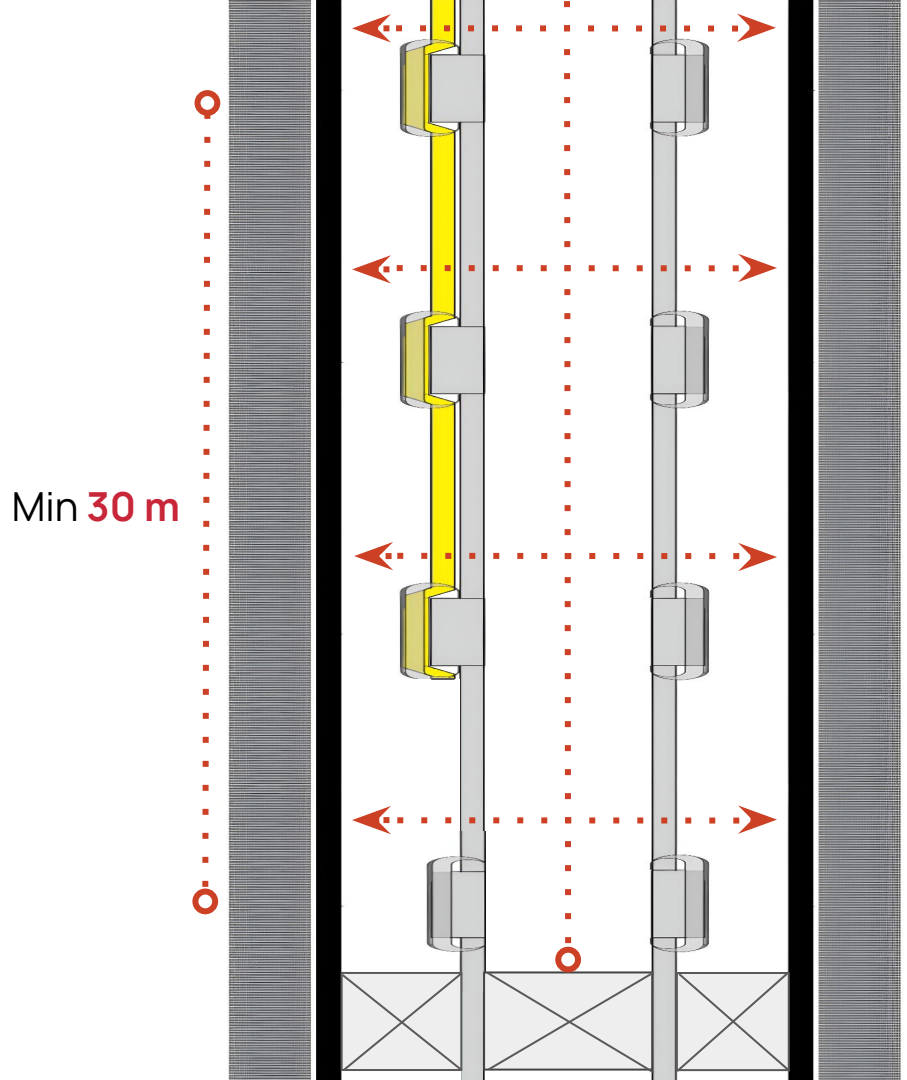
Why **Rigless?**

- ➔ We **pay** for it
- ➔ Reduces rig demand, freeing assets for field development
- ➔ Reduces personnel risk and environmental harmful waste

"True progress starts when comfort ends and *impact* begins"

The **Requirements**

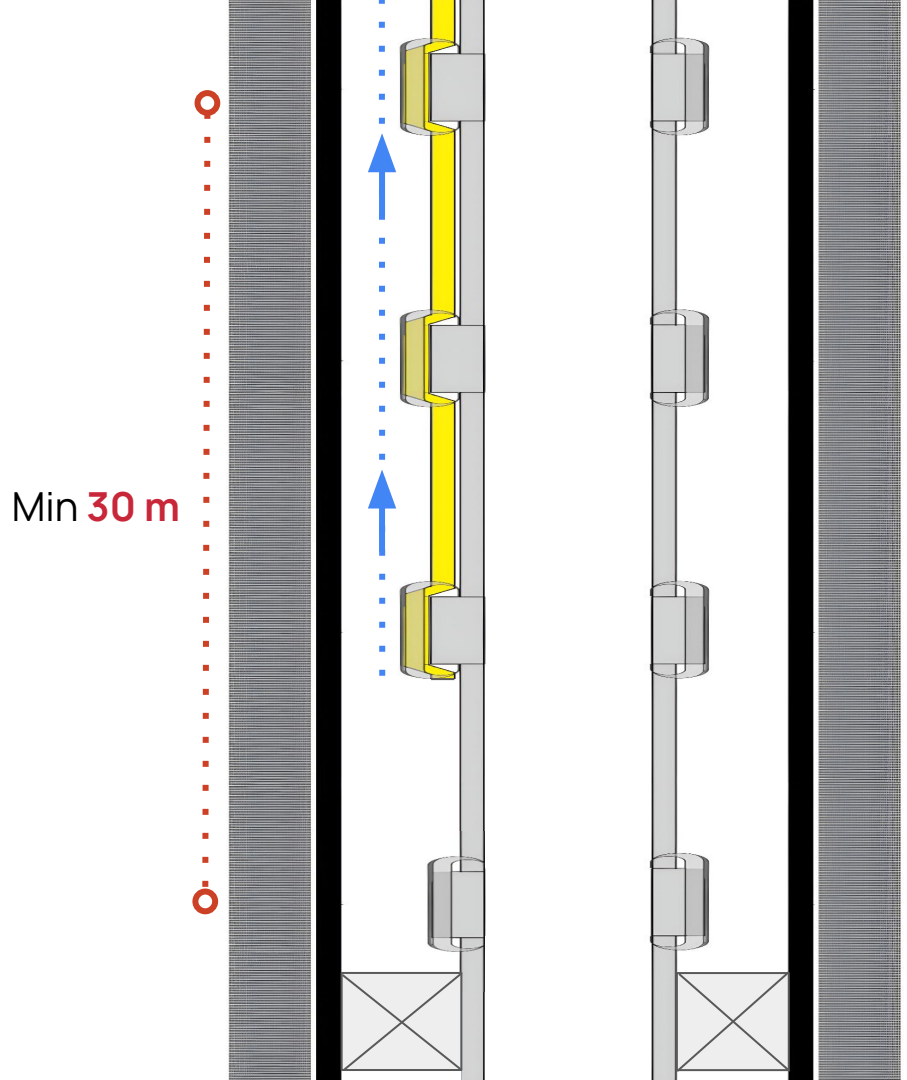
- ➔ Verified cross-sectional internal WBE
- ➔ Verified CBL for external WBE in annuli



The **Showstoppers**

- ➔ Through-tubing annular CBL verification **unfeasible**
- ➔ TH landed different based on XMT type, while also requiring SWU
- ➔ Conduit leak-path(s) management

Pulling **requires rig engagement**



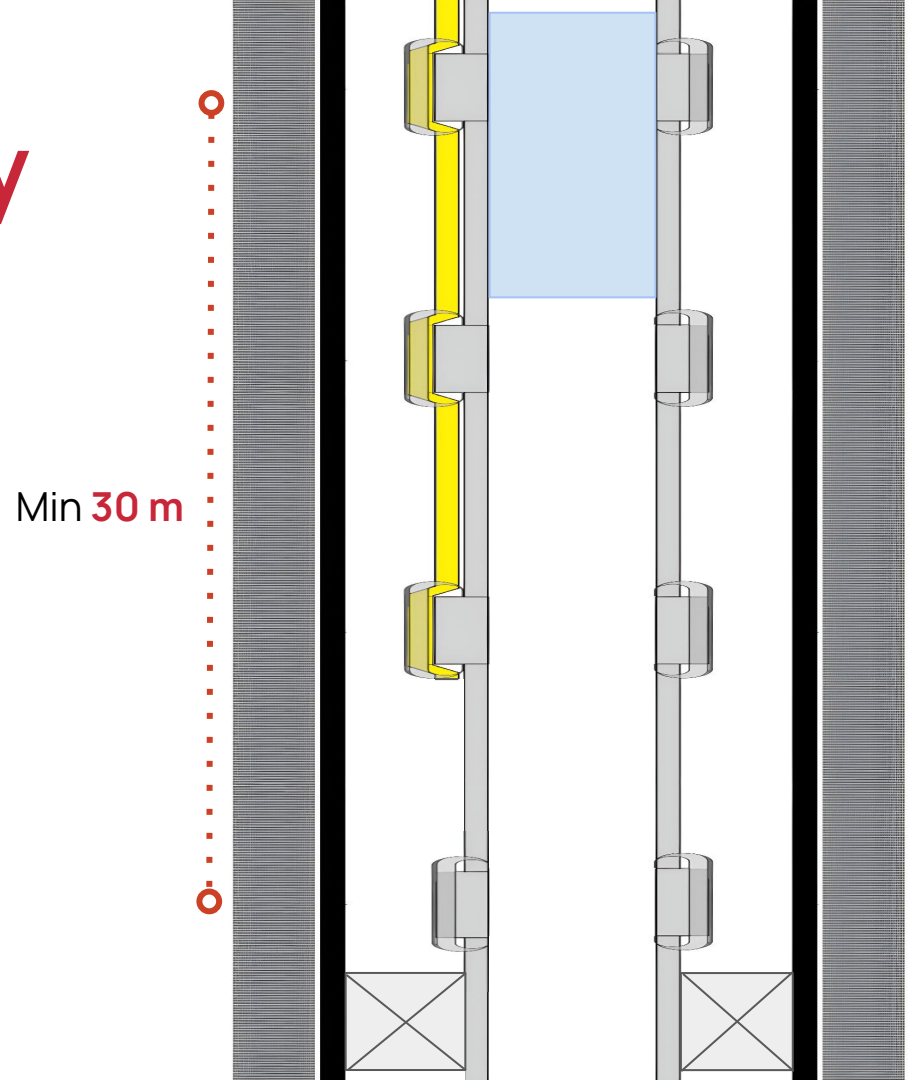
Current **Technology**

I. Axter **Retrieve**

II. Interwell **RockSolid**

III. dSolve **Induced Corrosion**

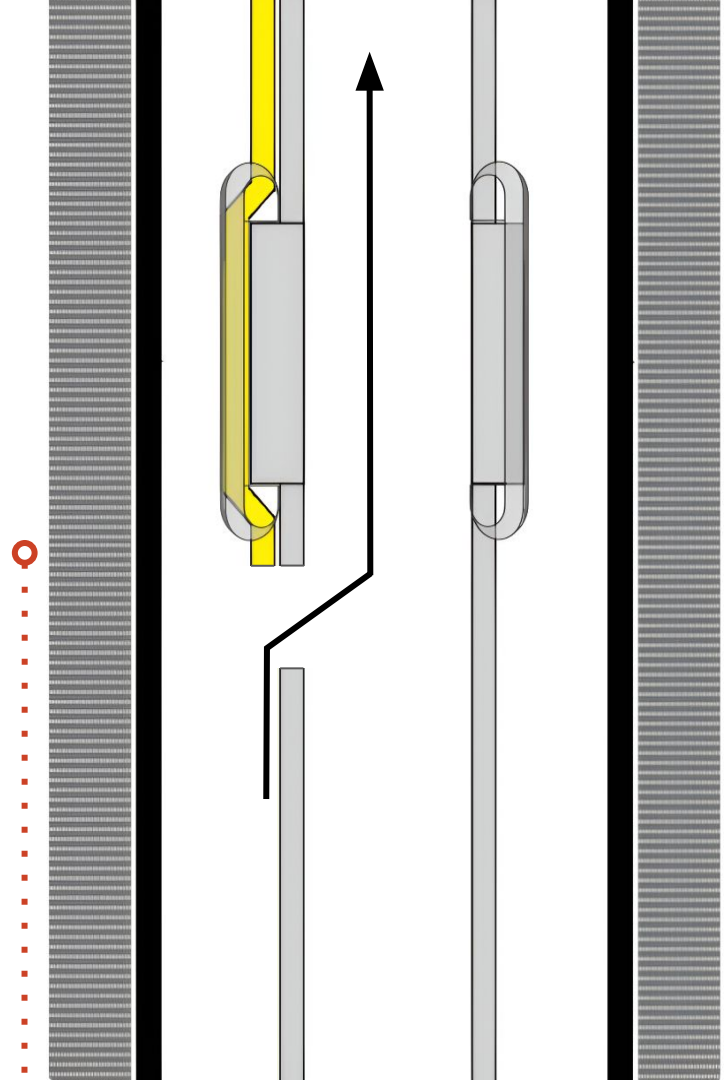
Addresses some aspects, **not all**



Current Technology I

Axter **Retrieve**

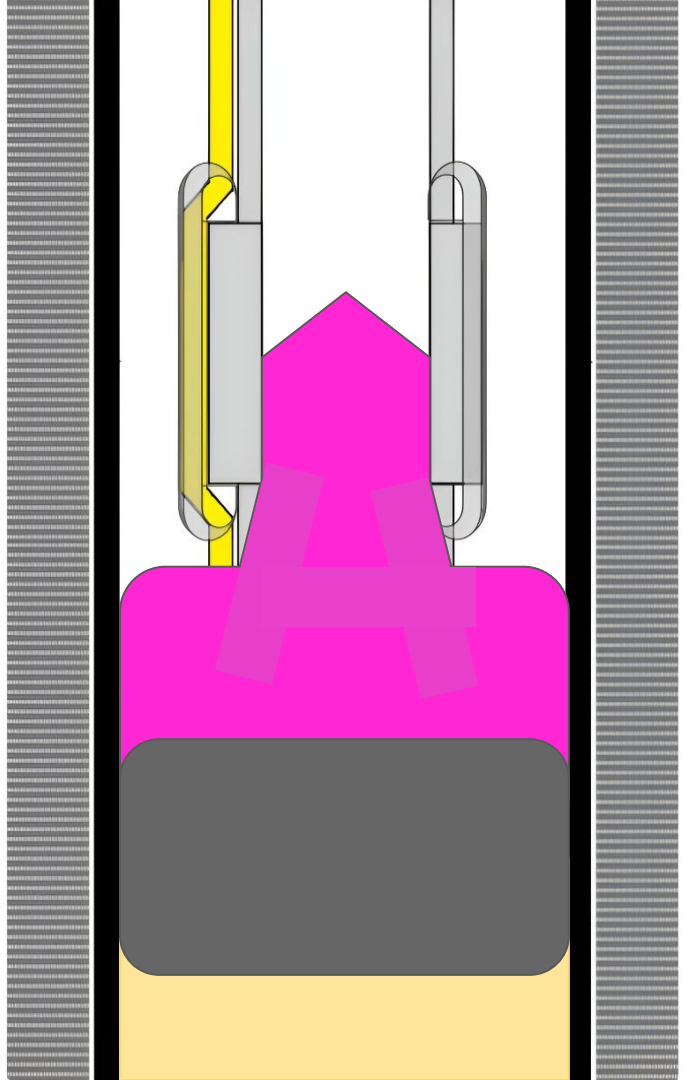
- ➔ Extracts **10 m** conduit intervals between connections
- ➔ **Mills** two access windows and severs conduit at points



Current Technology II

Interwell **RockSolid**

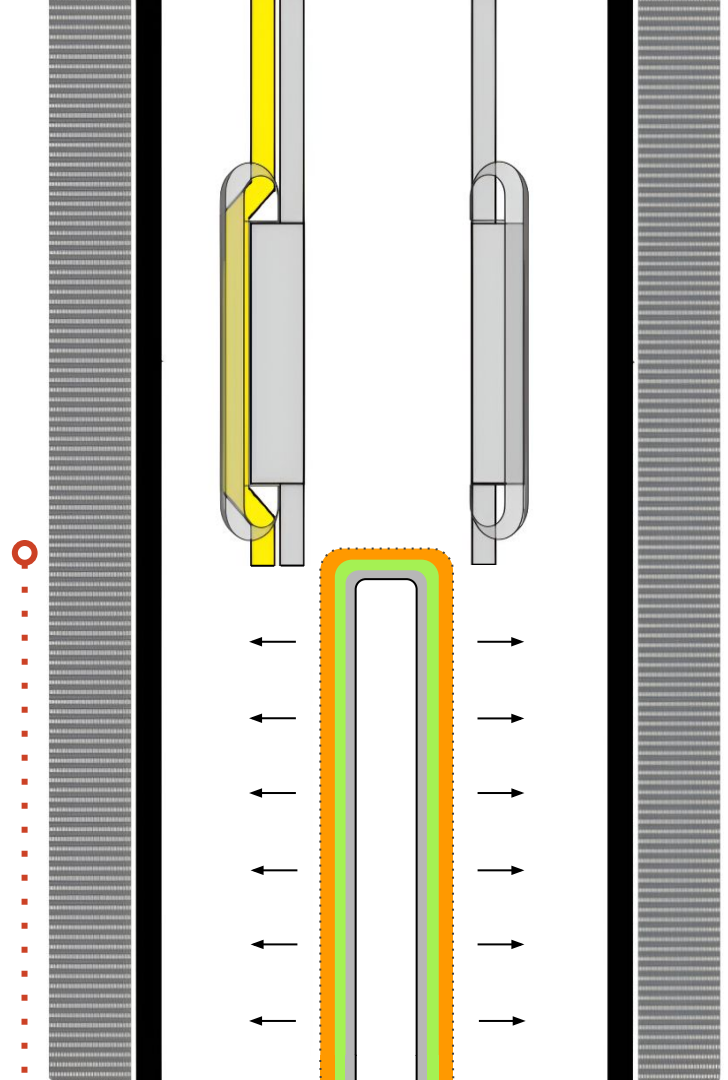
- ➔ Melts tubing and establishes seal against 9-⅝ in
- ➔ Thermite based **bismuth plug**



Current Technology III

dSolve **Induced Corrosion**

- ➔ Dissolves tubing and establishes access to 9-⅝ in
- ➔ Controlled anodic **dissolution**



Our **Concept**

- ➔ Facilitates rigless PP&A, **delays** engagement of rig
- ➔ Opens required window for annular **CBL verification**
- ➔ Executed entirely using **wireline**
- ➔ Remaining tubing **left in hole**

Any **Questions?**

Also—please **reach out** for further discussion