

EVALUATIVE CASE STUDY

Trouble Milling a Frac Plug

SCENARIO:

A plug is being milled with coil as part of a routine multistage fracing operation.

Problems Milling



Long after the point that the plug should have been milled out there is still no debris in the returns and no signs of progress.

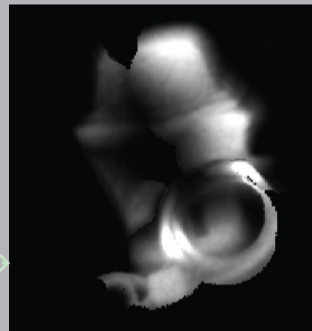
A lead impression block is run; results show that something may be on top of the plug.
A junk basket recovers nothing.
An optical camera would require a cleanup.

LIB



VR90 X-ray imaging run on wireline.

2D



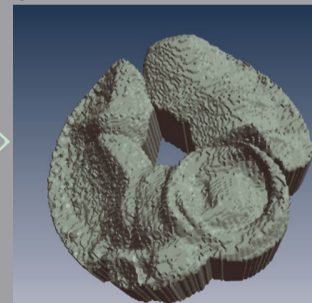
VR90 provides clear, dimensionally accurate 2D images in real time despite the dirty well fluids.

Actual



Transportable 3D PDF is made whilst the tool is pulled out of the well. Requiring only a standard PDF reader, the document allows fully manipulatable 3d renderings to be quickly and easily sent to the right people.

3D



Fish is quickly identified as an open-hole coring bullet.

The reason for the milling issue is identified.

A fishing solution is quickly found, and the fish retrieved with onsite slickline.

