



CASE HISTORY

Drilling and Completions

CAP – Inflatable Casing Annulus Packer

Location:

Onshore U.K.



Challenge:

Run and release 4-1/2" slotted liner assembly in a 6" open hole.

Solution:

Run CAPs above slotted liner section. Make up Hydraulic Release Sub and inner string assembly with Bore Insert onto upper CAP to allow circulation, inflate packers, and release liner.

Well Description:

Coal Bed Methane (CBM) horizontal well, 6" open hole

Tools Used:

4-1/2" thread connection CAP packers with 10' partially reinforced seal length (upper and lower packer)
Hydraulic Release Sub with inner string connection
Combination Tool with premium connections
Bore Insert Assembly

Procedure:

- Make up Bore Insert Assembly onto liner shoe.
- Run in hole with 4-1/2" slotted liner.
- Make up lower and upper CAP packers with pup joint in between.
- Space out and make up inner string assembly and stab Bore Insert with Bore Insert Stinger.
- Make up Hydraulic Release Sub onto upper CAP packer.
- Run liner/inner string assembly to depth.
- Set lower packer, release from liner and move up to set upper packer.
- Pull inner string assembly out of hole.

Results:

- Successfully ran in and released liner with CAPs as mechanical barrier in one run.
- One run capability saved many hours of rig time.

