



One Shot Cementing System

This system enables screen & casing running and cementing in one operation. Typically, the well is drilled to TD and casing is run with an inflatable casing packer and cementing valve and either with or without inline screen. A mechanical setting tool is run inside the casing on a cementing string to seat inside the packer. Initially pressuring up this tool inflates the packer to a pre-set shear pin pressure. After shear, the tool shifts to access the annulus above the inflated packer via the cementing valve and cement is pumped as required. Packer inflation pressure is maintained by check valves.

APPLICATIONS:

- Off bottom cementing – casing installation, casing/screen installation, cemented liner application
- Casing re-lining operations
- Cementing casing in boreholes drilled into underground workings (breakthrough well bore)

FEATURES:

- The bore may be drilled to TD in a single run at a single size
- Casing toe location can be decided based on actual aquifer depth
- Casing and screen are run in-line in a single operation
- The casing is cemented in one operation
- Fewer pipe trips into and out of the well compared to standard float shoe cementing operations
- Can easily be adapted to casing re-lining operations
- The aquifer is fully sealed against cement contamination by an inflatable packer
- No drill out required

OPTIONS:

- To clear cement from the string the options of over-displacing or pumping a wiper can be employed
- Alternatively a wiper style extension on the stab-in tool can be used. This allows the tool to be raised clear of the grout valve for flushing of the string and casing while the wiper section continues to seal the lower portion of the casing against contamination
- Setting tool can incorporate a drag spring actuated latch to match a profile in the casing packer for accurate landing of the tool when slight casing ID reduction is impermissible (typically 1/8" to 1/4")



Inflatable Packers International

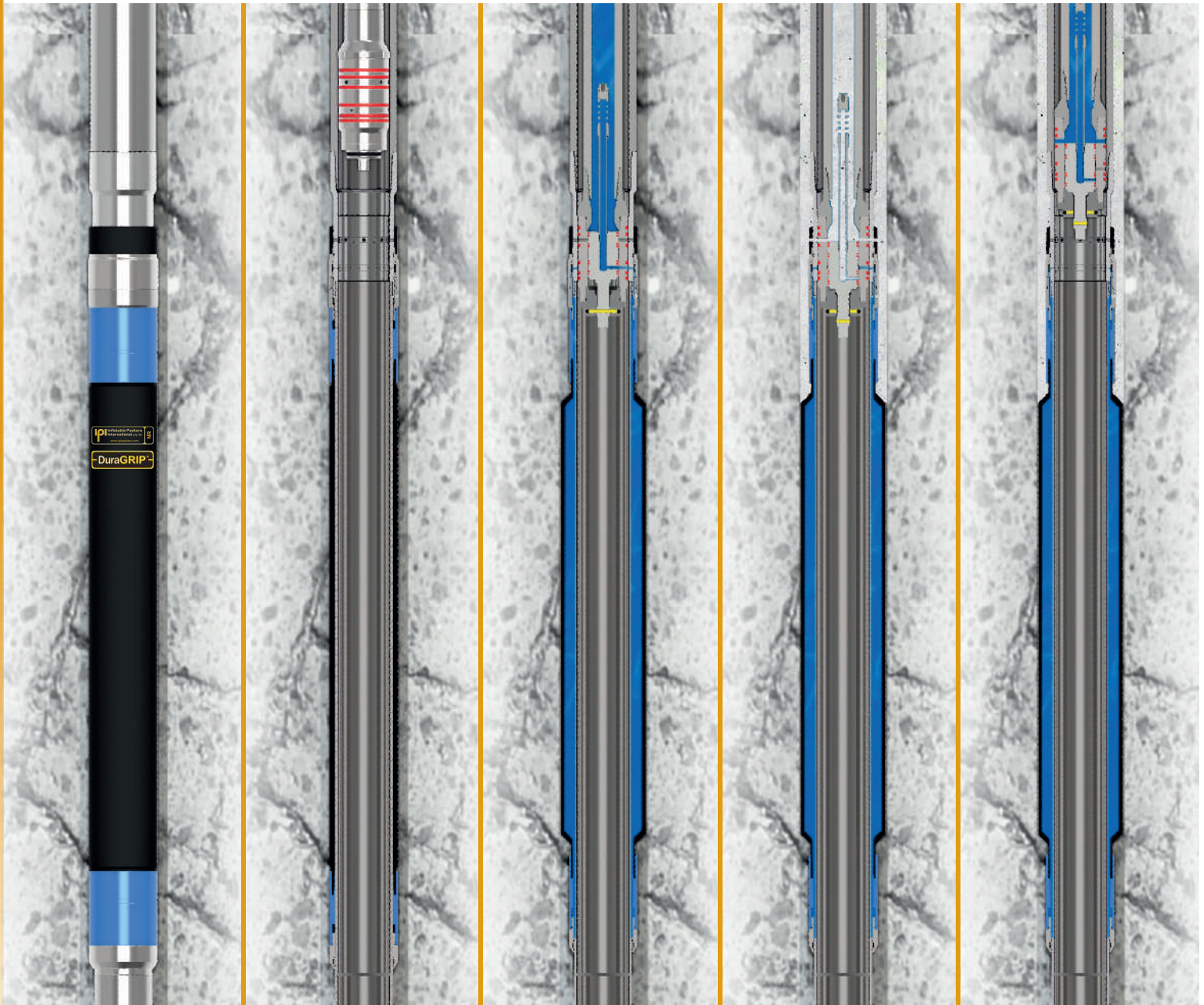
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Installation: Open Hole Completion



Run In Casing with BHA

Run In Setting Tool on pipe to seat in packer

Pump water to inflate Packer and shear Setting Tool to cementing position

Perform cement job

Pull back Setting tool, circulate excess cement and pull out

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