



Plug-and-Abandon (P&A) Kit

One-Trip Openhole Cement Plug

Weatherford's plug-and-abandon (P&A) kit consists of field-proven hydraulic and mechanical disconnects that are made up to a conventional Weatherford annulus casing packer (ACP™) to enable an openhole cement plug to be set in a single trip. The conventional ACP tool, which is normally run on a casing or a liner, is crossed over to run on a drillpipe or work string for placement in the well.

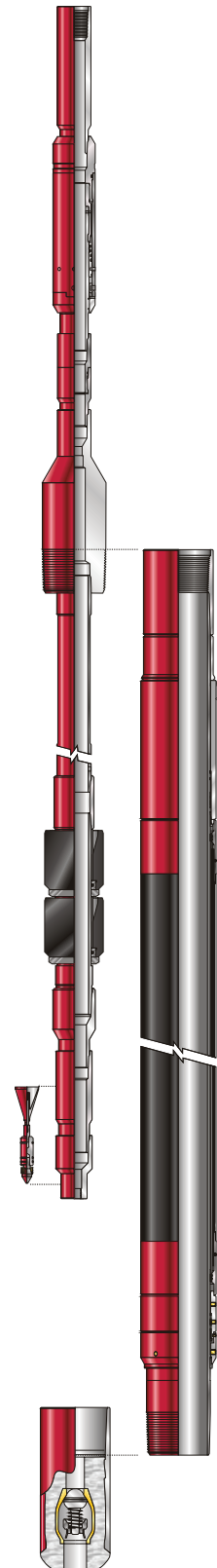
When the assembly is run to the proper position in the well, a latch-down dart is pumped from the surface with cement behind it. When the dart lands below the disconnect and the ACP tool, surface pressure is applied to inflate the packer with the cement. After inflating the ACP tool, additional surface pressure is then applied to hydraulically disconnect the packer. The hydraulic disconnect is backed up by a mechanical-rotation disconnect for emergency release. After the ACP tool is inflated and disconnected, cement can be placed directly on top of the packer, or the excess inflation cement in the drillpipe or work string can be reverse-circulated out of the well. The end result is a single-trip plug set for horizontal or deviated wells.

Applications

- Can be used in any circumstance where a section of a hole requires abandoning and plugging of cement
- Can be applied in wells requiring proper placement of an ACP tool to shut off water, oil, or gas
- Provides a kickoff point after plugging back a directional hole drilled out of zone

Features, Advantages and Benefits

- The kit is compatible with all standard ACP assemblies with seal elements 10 ft (3 m) and longer, maximizing operational efficiency with minimized equipment inventory.
- Hydraulic-disconnect shear screws are field accessible, simplifying overall job setup.
- Float-shoe, latch-down, or combined float-shoe and latch-down darts prevent backflow after the disconnect, ensuring liner integrity.
- One-trip system balances the cement plugs when set in high-angle or horizontal open hole, significantly reducing rig time.
- The standard kit includes all required equipment, therefore no special ACP inventory is required.





Plug-and-Abandon (P&A) Kit One-Trip Openhole Cement Plug

Specifications

Packer Size (in./mm)	Top Connection Box (in.)	Overall Length			Minimum ID (in./mm)	Maximum OD Disconnect (in./mm)	Maximum Pull (lb/kg)	Pressure Required to Disconnect (psi/MPa)
		Kit Only (ft/m)	Complete Assembly (ft/m)					
			10-ft (3-m)	20-ft (6-m)				
2-3/8 60.3	2-3/8 (EUE)	4.0	21.3	31.8	1.000 25.4	3.375 85.9	104,340 47,328	500 or 1,000 3.4 or 6.9
2-7/8 73.0		1.2	6.5	9.7	1.185 30.0	4.000 101.6		
3-1/2 88.9	2-7/8 (EUE)	17.3 5.3	23.5 7.2	33.8 10.3	1.185 30.0	4.625 117.6	144,960 65,753	500 or 1,000 3.4 or 6.9
4-1/2 114.3	2-7/8 (EUE)	17.3 5.3	23.8 7.3	33.8 10.3	1.185 30.0	4.625 117.6	144,960 65,753	500 or 1,000 3.4 or 6.9
5-1/2 139.7								
7 177.8								
9-5/8 244.5								

Contact product liner management for availability.