Excerpts from AFX APC new revision animation

Thank you to Kevin Grigar for providing the full file
(too big to upload from the middle of the ocean)
The Bottom Hole Assembly (BHA) is assembled on the rig floor.
The BHA is lowered through the Moonpool and Guide Horn.
The bit is lowered to ~4.5 m above the seafloor.
The APC Tool is lowered into the drillstring by wireline.
Hydraulic pressure is increased to release the Inner Core Barrel.
Hydraulic pressure is increased via the Mud Pump.
Pins are sheared.
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Inner Core barrel is released.
... and the Core Barrel is drawn back to the ship by wireline.
The wireline lifts both the Piston Assembly and the Inner Core.
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On the rig floor, the Inner Core Barrel is set in a shuck...
...the Piston Assembly is installed on a new Inner Core Barrel, new Shear Pins are set and the APC is sent down the drill string.
The first Core Barrel is picked up and the core extracted.
As the second APC descends...
...the BHA drills down the length of the previous core.
The Core Barrel is fired...
...and the APC is drawn back to the ship.
animation
Thanos F.

music
King Shi