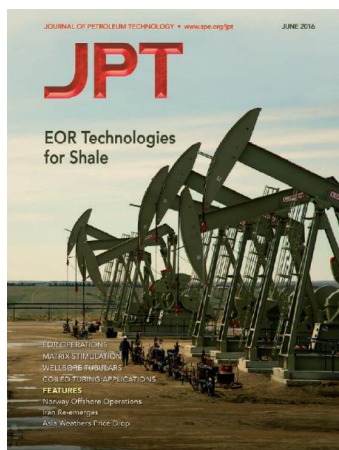


HPIT 钻井液封堵性能测试仪

维泰能源集团专利HPIT钻井液封堵性能测试仪，是专为油田现场测试流体（泥浆或堵漏浆）侵入地层的侵入度所设计。该仪器结合了传统钻井液侵入度测试仪以及高压堵漏材料测试仪的所有优点，同时无需任何外界能源（气源、电源等）辅助加压，弥补了同类型测试仪在油田现场实时监测的技术空白。该仪器可实现在单人操作下，随时随地实现对堵漏材料及钻井液的侵入度测试。其应用范围十分宽广，既可模拟测试钻井液在多种渗透率地层中的侵入度，也可测堵漏材料在直径为5mm的钢珠床上或不同尺寸缝板上的堵漏效果，且其独有的透明高压可视化窗口，使得评价结果更加直观。



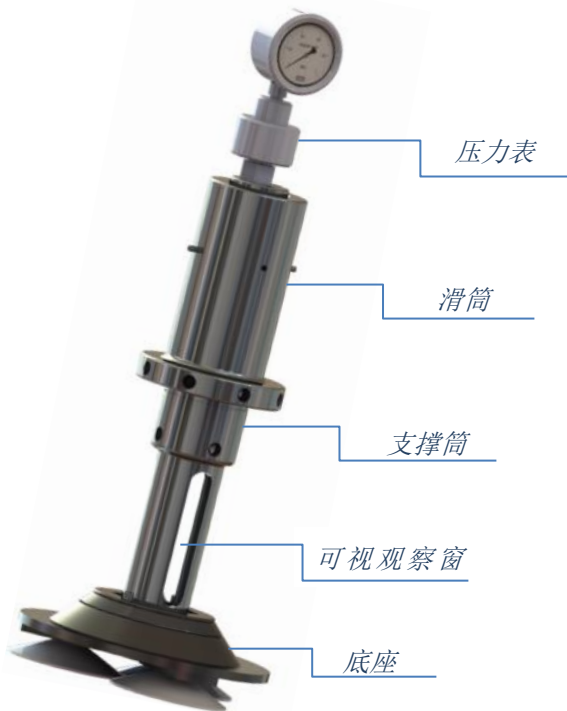
TECHNOLOGY APPLICATIONS
Chris Carpenter, JPT Technology Editor

Manufacturing Beeds
Coring Beeds have a wide range of hard-
bitting rods are used to handle soft for
coring steel and other materials down-
hole. They are made up of crushed tung-
sten carbide in a binding alloy. When
deposited on a well, the binding alloy
is washed, leaving the tungsten car-
bide fragments in the tool. This forms
a more cutting structure able to cut
through obstructions downhole. The
industry standard coring process gener-
ally uses a slurry of tungsten carbide
particles in a binding alloy. The particles
are added to the slurry and from which
the tungsten carbide fragments are form-
ed. The fragments are then
attached to be used in the manufacture
of the rock bits. Coring Beeds® is a
new addition to the product line. It
uses a new manufacturing process that
allows the tungsten carbide particles to
be more evenly distributed. This means
that the fragments are present in a con-
sistent layer throughout the slurry. This
allows for a more uniform distribution
of tungsten carbide particles. The result
is a more efficient and longer-lasting
coring bit. Coring Beeds® is a new
technology that will revolutionize the
coring process. For additional information,
visit www.vertechs.com.

Predictive-Analytics Software
The industry standard coring process gener-
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Pressure Tester
The testing structure produces
short cuttings that are contained out of
the hole easily. The fragments are regu-
lar in size, which ensures that having an
effective cutting structure is quicker and
easier. The rods are able to show acid-
soluble pieces to be washed off the pres-
sure connection of the cutting structure.
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SPE 旗下最大 JPT 杂志将 HPIT 刊登于新技术应用板块
2016 年 6 月期



用 5mm 的钢珠模拟漏失地层，图为某种堵漏材料的承压封堵效果模拟。

用 20~40 目的砂床模拟渗透率约为 10 达西的地层，图为某种钻井液的侵入程度模拟。

产品特点

- 适用于测试所有堵漏材料封堵效果及钻井液侵入度评价。
- 最大测试压差可达6MPa,测试精度0.34MPa (50psi)。
- 无需任何外界电力及气源提供动力。
- 单人即可简单安全操作。
- 透明可视化窗口，测试结果直观。
- 仪器轻便易携，随时随地可进行测试及评价。

* 可采用不同粒径的砂床和不同尺寸的缝板模拟不同的地层孔隙、渗透率情况。