

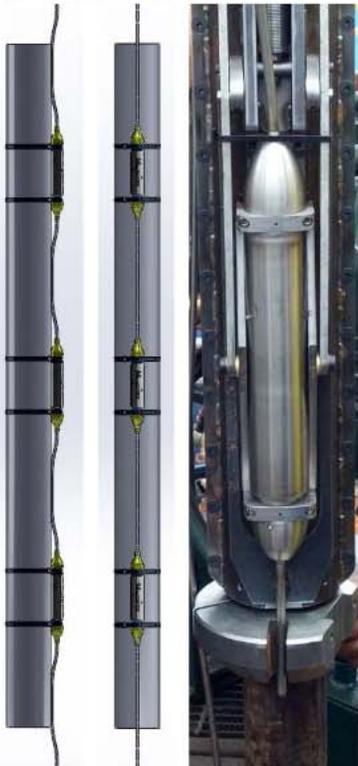
Hydraulic Fracture Monitoring and Reservoir Surveying using CasingSeis™: Borehole Seismic Arrays Deployed on Casing

Deployed in Vertical or Horizontal Wells - Drawings below show 7" Casing.

PrimaSeis®

3C Geophones

2" OD Pods

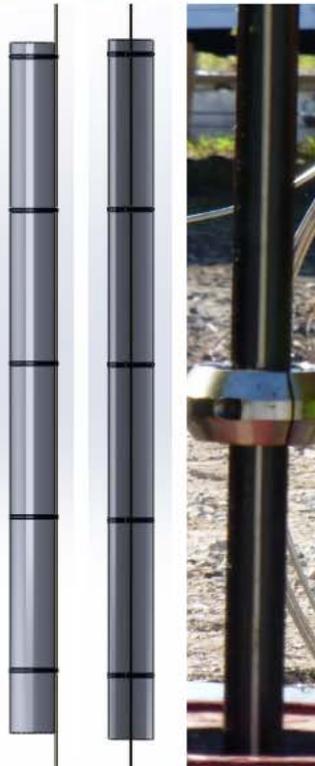


PrimaSeis®
Installed
March 2012

FiberOpticSeis™

1C FiberSeis™

0.25" OD Tube



FiberSeis™
Installed
June 2013

3C OpticSeis®

1" OD Pods

2" OD Pods



OpticSeis®
Installed
June 2013

Specifications: 1 – 1,000 3C levels; Temperature: FiberOpticSeis®: 608°F (320°C); PrimaSeis®: 464°F (240°C); Pressure: 30,000 psi; Drilled Depth: 30,000 ft

Design Summary: No connectors; No O-rings; All designs 100% welded

Upgrade to More Sensitive 3C Sensors for Your High T & P Wells!



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