



WIRELINE STRADDLE-PACKER (WSP)

COLOG's Wireline Straddle-Packer (WSP) assembly is designed for rapid deployment from any of our geophysical logging rigs. Three downhole pressure transducers record and display hydrostatic pressure above, below, and inside the zone of interest in real-time. This configuration provides immediate insight into the integrity of the packer seal against the borehole wall, ensuring accurate interval-specific data is collected.

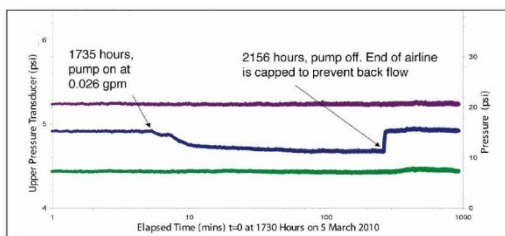
Test interval length is highly customizable, and can be adjusted in the field to accommodate any changes in investigation scope. Additionally, each packer can be inflated individually to create a variety of larger test intervals, i.e. upper packer to total depth (TD) or lower packer up to water level, etc.

APPLICATIONS:

- + Discrete groundwater sampling
- + Fracture-specific permeability testing
- + Aquifer-specific permeability testing
- + Injection tests: Low-Yield & High-Yield
- + Pumping tests: Low-Yield & High-Yield
- + Falling/Rising head tests performed from one deployment
- + Airlift & slug tests

PROBE SPECIFICATIONS:

Packer Model	Uninflated Diameter	Borehole Diameter Range	Max Differential Pressure	Overall Length w/ Shortest Zone
MD-1.8	1.8"	2.0" – 3.5"	1000 psi	23'
MD-2.7	2.7"	3.0" – 5.0"		21'
LI-3.5	3.5"	3.8" – 7.0"		11'
MD-4.5	4.5"	4.8" – 8.5"		22'

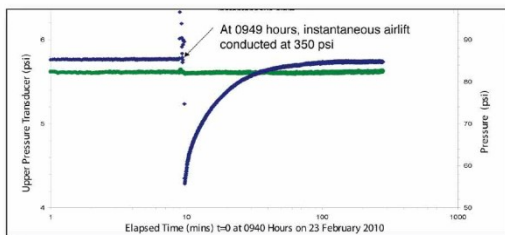


PERISTALTIC PUMP TEST

Both packers inflated, resulting in a test interval of 53 to 59 ft. below ground surface (bgs).

The middle pressure transducer records pressure in the test interval (blue).

Pumping data is processed using AQTESOLV or the Theim equation for permeability estimations.



AIRLIFT TEST

Only upper packer inflated, creating a test interval of 263 to 768 ft. (TD) upon inflation.

Middle pressure transducer records pressure in test intervals (blue).

Airlift data is processed using AQTESOLV for permeability estimations.



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