



**ARRIVAL**  
ENERGY SOLUTIONS

# Pressure Logger

## Pressure While Drilling Recorder (PWDR)

Modern drilling operations are resulting in increasingly higher standpipe pressures and increased need for larger and stronger surface equipment. In order to identify and eliminate factors leading to increased Equivalent Circulating Density (ECD) and Equivalent Mud Weight (EMW), it is important to provide accurate downhole annular pressure information. The Arrival Oil Tools PWDR provides highly accurate data so that drilling experts can determine what factors may be leading to increases in pressure while drilling.

- Measures and records annular pressure and temperature data using a highly accurate piezoresistive pressure transducer.
- Provides annular pressure data to analyze and identify sources of increased pressure during drilling of the well. Drilling experts may compare recordings across multiple wells to determine which parameters lead to a more desirable pressure profile.
- Diagnoses hole cleaning issues by comparing actual equivalent mud weight across wells and at different operations.
- Identify ideal hole cleaning procedures and duration by determining when equivalent mud weight is no longer improved during cleanup cycle.
- Quantifies surge and swab pressures.
- Electronics are sealed to environment and designed for high pressure and high temperature applications, complete with metal-to-metal seals for extreme conditions.
- Rated to 15K PSI and 150°C.
- Extremely long battery life.
- Data can be downloaded and exported to '.csv' file for analysis by any software.
- Wireline retrievable.



### Technical Specifications

*The following sizes are typical, however, custom configuration is available.*

Tool O.D.	5.250" (133 mm)	6.625" (168 mm)	8.000" (203 mm)
Length	38" (965 mm)	33" (838 mm)	33" (838 mm)
Connection	3-1/2" API IF (NC 38)	4-1/2" API IF (NC 50)	6-5/8" API REG
Through Bore	2.813" (71 mm)	2.813" (71 mm)	3.250" (83 mm)
Total Flow Area (through flow ring)	2.401 in <sup>2</sup> (1549 mm <sup>2</sup> )	6.771 in <sup>2</sup> (4368 mm <sup>2</sup> )	10.667 in <sup>2</sup> (6882 mm <sup>2</sup> )

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