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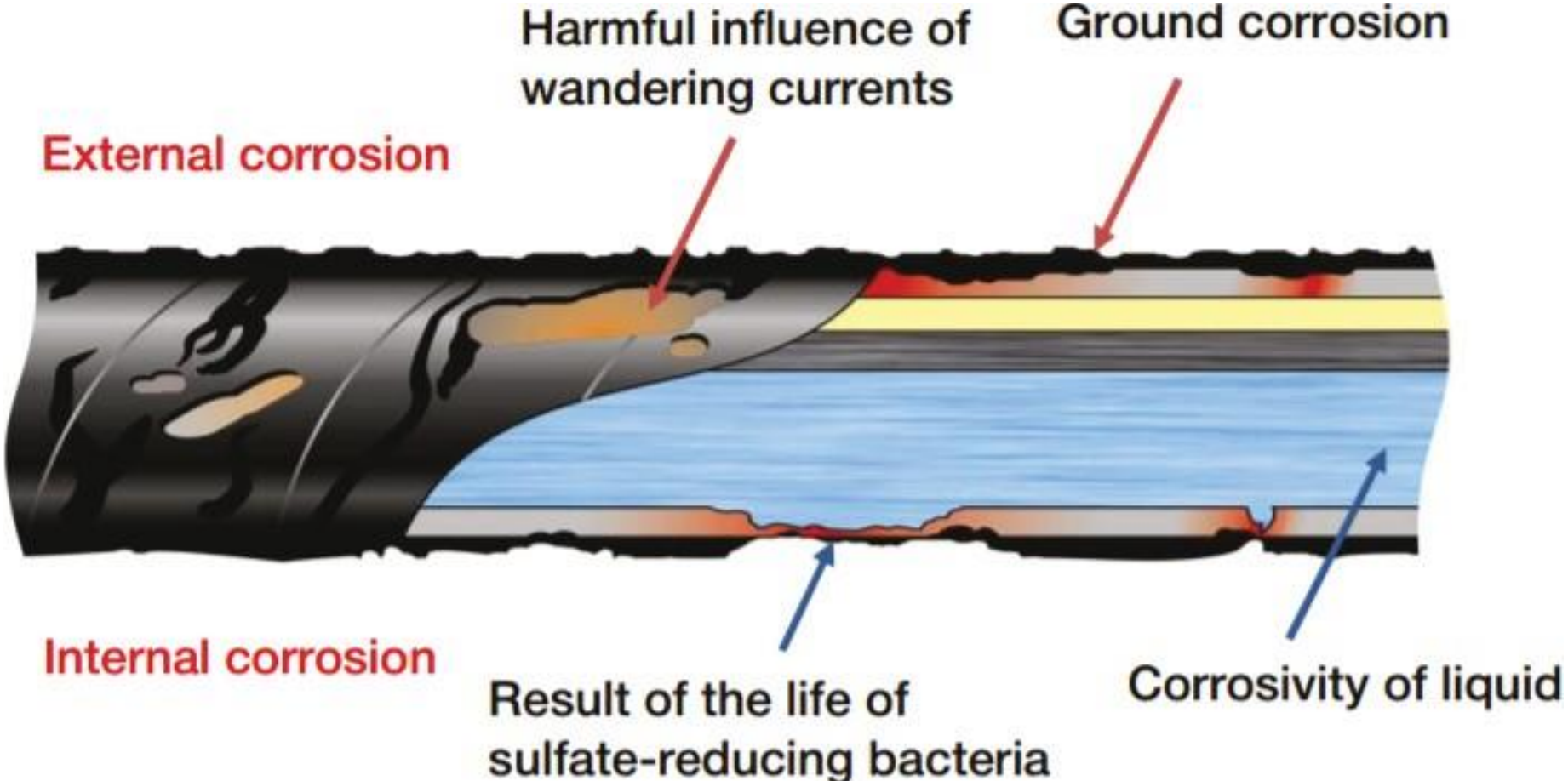
CIPT

Cathodic Integrity Profile Tool

Cathodic Integrity Profile Tool (CIPT)

The CIPT tool designed to measure the casing electric potential difference & casing resistance in order to evaluate the cathodic protection performance across the entire well.

The tool allows for highly efficient studies in the well by monitoring of cathodic protection performance and predict the weak areas that might be exposed for corrosion.



Mechanical specifications

Length, not more than	29.52 ft (9 m)
Outer Diameter, mm	2.87 in (73 mm)
Weight	440.92 lbs (200 kg)
Temperature rating	302 °F (150 °C)
Pressure rating	11,603 psi (80 mPa)
Casing size, min	3.94 in (100 mm)
Casing size, max	11.81 in (300 mm)
Combinability	with most tools
Special applications	H2S Resistance

Measuring specifications

Measuring range, ohm/m	0.2-5000
Dynamic range, mV	±500
Accuracy, mV	1
Power supply parameters, Hz/mA	400/400
Logging speed, ft/min	55

The potential of self-polarization is detected by measuring the potential difference between the four sets of electrodes using a voltmeter located in the galvanic circuit of the tool installation.

Measurements of the potential are carried out while the Tool moves along the wellbore, Two different passes should be performed, 1st one while the cathodic protection system is connected, 2nd one while cathodic protection system is disconnected.

Applications

- Corrosion Control & Monitoring
- Cathodic Protection Performance Evaluation



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