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## TECHNICAL DATA SHEET

# PGR

## Production Gamma Ray

The Production Gamma Ray (PGR) tool measures the naturally occurring radiation emitted by various formations. The major applications are depth correlation and radioactive scale identification.

The PGR tool is compact, rugged and combines excellent sensitivity with high resolution. Gamma rays are detected by a sodium iodide scintillation crystal, amplified and counted. The detector is temperature compensated to minimise drift from the photomultiplier tube.

When calibrated the difference between background and calibrator levels establishes a ratio between raw counts and API units, allowing a calibrated display to be presented on the log in API units.

### APPLICATIONS:

- Depth correlation
- Radioactive scale determination
- Pip tag depth correlation
- Radioactive tracer monitoring

### BENEFITS

- Identification of radioactive scale to help optimise clean-up or remediation
- Qualitative assessment of gravel pack placement when used in conjunction with a gamma source
- Deployable on Slickline, Electric line, Coil Tubing and Tractor



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## Specifications

<b>Temperature rating</b>	350°F (177°C)
<b>Pressure rating</b>	15,000 psi (103.4 MPa)
<b>Tool diameter</b>	1 <sup>11</sup> / <sub>16</sub> in (43mm)
<b>Tool length</b>	23.1 in (586 m)
<b>Tool weight</b>	9.4 lb (4.3 kg)
<b>Sensitivity (nominal)</b>	1 count per API
<b>Maximum count rate (API)</b>	2,000 cps
<b>Logging speed</b>	Recommended: 30 ft/min (10 m/min) Maximum: 60 ft/min (20 m/min)
<b>Materials</b>	Corrosion resistant throughout