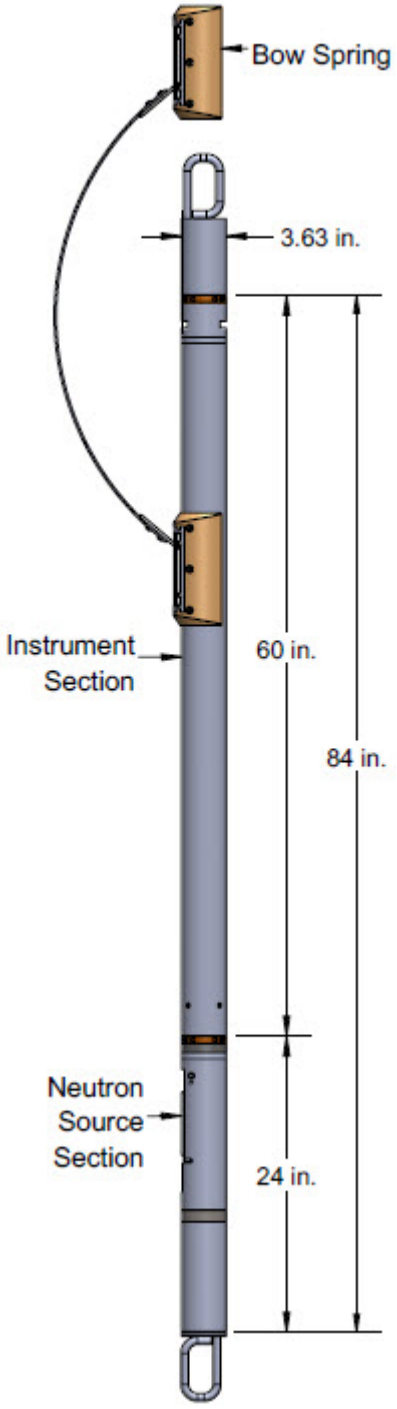
PICO Compensated Neutron Tool (PCNT)



DIMENSIONS AND RATINGS

Max Temp:	350°F (175°C)	Max Press:	20,000 psi
Max OD:	3.625 in. (9.2 cm)	Min Hole:	4 in. (9.52 cm)
Length:	7.04 *ft (84.5in)*	Max Hole:	20.75in. (52.7 cm)
Weight:	144 lb		
In cased holes, Min, Csg/Tbg ID is 4in., Max Csg/Tbg ID is 20.75 in.			

BOREHOLE CONDITIONS

Borehole Fluids:	Salt ■	Fresh ■	Oil ■	Air ■
Recommended Logging Speed: 60 ft/min				
Tool Positioning:	Centralized ☐	Eccentralized ■		

HARDWARE CHARACTERISTICS

Source Type:	15Curie AmBi241
Sensor Type:	Helium3 Gas Detector
Sensor Spacings:	Proprietary
Sample Rate:	4 or 10 samples/ft
No. Windows:	Aggregate Counts
Full Spectrum:	Aggregate Counts
Combinability:	PTel below PSGT, above TBI

MEASUREMENT

Principle:	Neutron- Thermal Neutron	
Range:	-2 to 100 p.u.	
Vertical Resolution (90%):	36 in. (standard), 20 in. (enhanced)	
Depth of Investigation (50%):	6 in.	
Precision, (1SD):	Low Porosity (3 p.u.)	at 60 ft/min ±0.15 p.u. at 30 ft/min ±0.1 p.u.
	Medium Porosity (30 p.u.)	at 60 ft/min ±0.4 p.u. at 30 ft/min ±0.3 p.u.
	High Porosity (60 p.u.)	at 60 ft/min ±3.3 p.u. at 30 ft/min ±2.3 p.u.
Accuracy:	± 5% or ± 1 p.u., whichever is greater	
Primary Curves:	Neutron Porosity, Near-to-Far Detector Count Rate Ratio	
Secondary Curves:	Near-to-Far Detector Count Rates	

PHYSICAL STRENGTHS*

Hardware	Tension	Compression	Torque
Tool Joints	*130,000 lb (59,000 Kg)*	*130,000 lb (59,000 Kg)*	*600 ft-lbs (850 n-m)*
Other	*75,000 lb (34,020 Kg)*	*75,000 lb (34,020 Kg)*	*na*
* *Strengths apply to new tools at 70°F (21°C) and 0 psi.*			