

ICS 73.020
CCS E12



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 48157-2026

**Petroleum and natural gas - General method for low-field
nuclear magnetic resonance relaxation analysis**

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(English Translation)

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Foreword

GB/T 48157-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2027.

It is under the responsibility of the Standardization Administration of China.

Classification: ICS 73.020; CCS E12.

1 Scope

This standard provides a general method for low-field nuclear magnetic resonance relaxation analysis in the petroleum and natural gas sector. Low-field NMR relaxation measurements are used in laboratories to characterize fluids and porous materials. It is relevant to oil and gas laboratories, core analysis service companies, research institutes, instrument suppliers and exploration and production engineers who need consistent practice when they carry out or report such analyses.

It was issued on 28 August 2026 and takes effect on 1 March 2027. It is a recommended national standard, so it is applied by agreement or through laboratory procedures. It does not adopt an international standard, which makes it a Chinese-origin method. Relaxation data are commonly used to estimate pore structure and fluid distribution in reservoir rocks, and results are only comparable between laboratories when measurement and reporting follow the same approach. Laboratories working for Chinese petroleum clients can use it to align their method descriptions with the current national standard system.