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Research on CO₂ Geological Storage Environment Impact Assessment Indicator System and Monitoring Technology

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Supported by the ordos deep saline groundwater CO₂ geological storage demonstration project, Xi'an CO₂ geological storage environment impact proving ground, Qinghai Pingan county field scientific observation research base, the paper studied the carbon reservoir engineering evaluation class, scope, principle and evaluation content, and according to the storage site and perfusion engineering indicates, the interference geological environment indicates, environmental capacity indicates, ecological impact indicates and the crowd environment induction indicates five aspects to establish

CO₂ geological storage environment impact assessment indicate system, in this foundation, proposed CO₂ geological storage different engineering stage monitoring techniques and emergency plan, which could provide technical support for carbon dioxide geological storage environment impact assessment and monitoring technology in China.

Key words: environmental impact, monitoring technology, CO₂ geological storage, remote sensing geophysical prospecting

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