

Reviewing Storage Containment Plans Can Facilitate Certification of Storage Volumes

Knowledge

D&M has the experience required for geologically characterizing storage reservoirs and identifying potential leakage pathways using the industry's latest techniques.

Integrity

D&M can bring its unique reputation for independence adherence to proven standards of excellence to client emissions management programs.

Service

D&M provides guidance and expertise to help clients understand the most secure storage opportunities and how their storage management plans are interpreted by stakeholders.

Support

D&M personnel travel around the world to provide one-on-one support to clients, and D&M staff can be available 24/7 for virtual meetings.

Advanced Technology

D&M has made significant investments in computing resources to ensure it can meet clients' analytical needs.

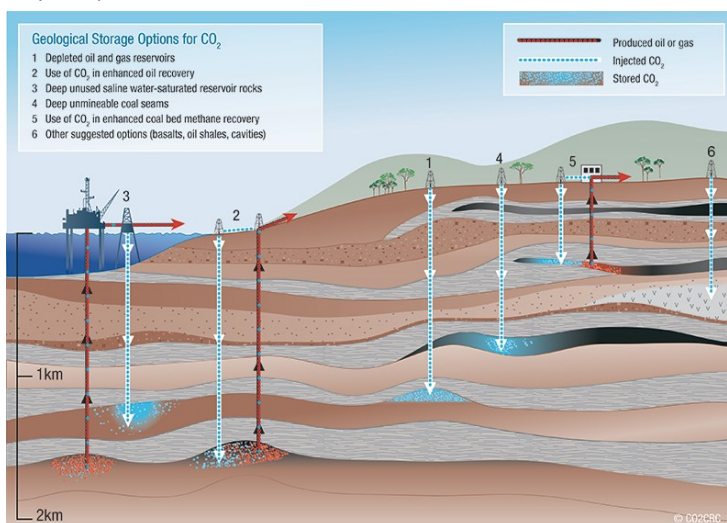
Solutions

D&M offers a wide range of services to help clients evaluate their storage opportunities and leverage their geologic and engineering knowledge to provide a transparent certification for stakeholders.

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Environmental, Social, and Corporate Governance (ESG), including the management of **greenhouse gas (GHG)** emissions, has become a business imperative for the petroleum industry. For many companies, the need to decrease their overall carbon footprints and/or address emissions activity has increased interest in carbon sequestration strategies. The strategic question is how a CO₂ storage or CO₂ enhanced oil recovery (EOR) management plan can be certified for investors, the public, and other stakeholders? DeGolyer and MacNaughton Corp (D&M) is able to help companies certify their CO₂ storage or CO₂ EOR management plans and historically injected volumes through internationally accepted standards.



Geologic Storage Options for CO₂

What is a Storage Certification?

Oil and gas industry stakeholders, including investors, regulators, customers, and the public, are regularly asking questions about CO₂ emissions volumes and often ask for more transparency around corporate commitments to reducing carbon footprints. An independent certification of a storage or CO₂ EOR management plan and historically injected volumes is one method through which oil and gas companies can demonstrate progress in reducing emissions.

D&M uses International Organization for Standardization (ISO) standards to certify management plans or stored volumes as part of direct sequestration or CO₂ EOR. These certification reports are used by our clients for regulatory filings and as supportive evidence in corporate sustainability reports that independently confirm emissions footprint reduction activities.

ISO 27914 and 27916 provide a methodology to manage, account for, and certify CO₂ storage associated with direct geologic sequestration or EOR activities, respectively. These ISO standards include the following actions:

- Geologic Characterization of the EOR/Storage Complex
- Review of Well Construction, Intervention, and Operations
- Containment Assurance and Monitoring Programs
- Quantification of Associated Storage of CO₂

Demonstrating the robustness of a storage program and providing an independent certification of stored volumes inspires confidence in stakeholders that the activities taken to reduce emissions are technically sound. D&M offers a reputable approach to addressing these issues.



SERVICES AVAILABLE

- ISO 27914 and 27916 management plan and stored CO₂ volumes certifications
- Storage location characterization and/or leakage pathway identification



Worldwide Petroleum Consulting