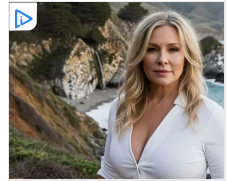
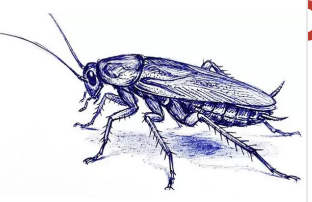


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Why Your Rotator Cuff Won't Heal (What Most Doctors Miss)

There are a whole lot of proposed CO₂ injection wells for carbon sequestration within the United States. So why isn't there extra carbon seize, utilization and storage exercise?

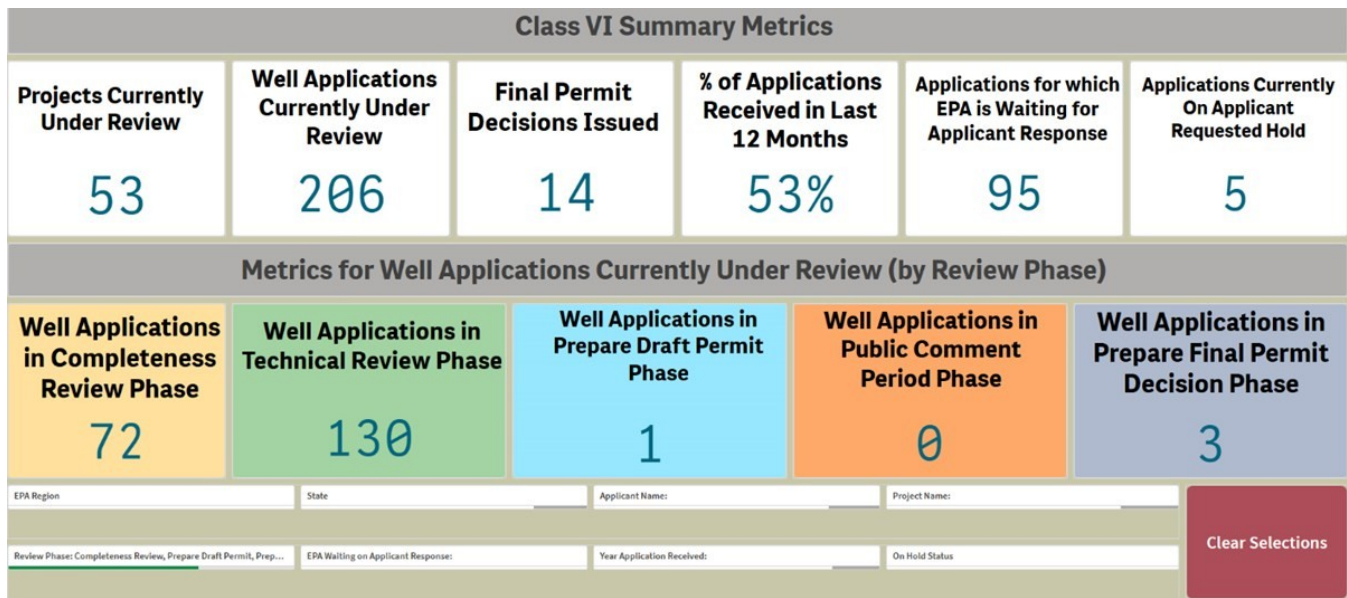
The brief reply is, most of these wells don't have a required properly allow.

Injection-well allowing for CCUS may sound bureaucratic, boring and routine. But, one way or the other, it has turned out to be attention-grabbing and noteworthy to many. And prolonged. It's a significant component in CCUS implementation at present.

In the United States, CO₂ injection wells for carbon sequestration and storage require a Class VI allow underneath a program administered by the Environmental Protection Agency. Rules for Class VI permits began going into impact in 2011.

But by the start of this 12 months, the EPA had accredited solely a small variety of these allow purposes. As of February, six states additionally had gained regulatory primacy to difficulty permits, easing a allow logjam – though a whole lot of Class VI purposes are nonetheless in progress, on file or in preparation on the federal and state stage.

Getting CO₂ injection-well approvals would be the focus of a March 30 panel dialogue on the CCUS 2026 occasion in The Woodlands, Texas. Permitting and regulatory issues will even be part of a number of different periods. The assembly is sponsored by AAPG, the Society of Petroleum



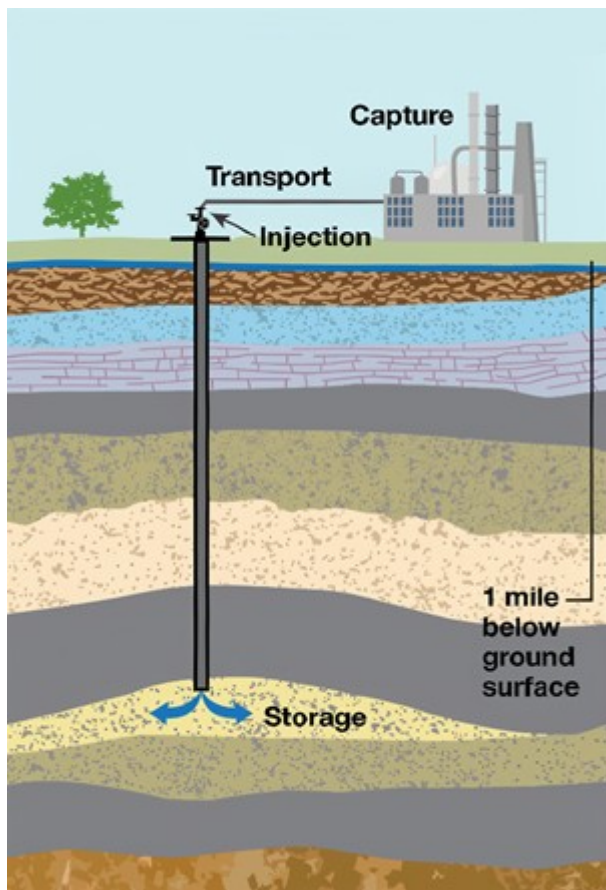
Stephanie Nwoko, senior geomodeler for Gulf Coast Sequestration LLC, will function session chair and moderator for the CCUS panel, “Behind the Approvals: Real-World Lessons from Class VI Permit Holders.” [NFL team news](#)

“The presentation hopefully will give attendees access to the operators who have successfully managed this process,” Nwoko stated. “It’s just to be able to share how they really went about it.”

Obstacles to Simplicity and Transparency

EPA has tried to verify its allow course of stays clear, with particulars available to the general public. Its major data gateway is the net Class VI Permit Tracker Dashboard. The web site incorporates an abundance of background about properly purposes and their progress.

In mid-February, the tracker confirmed EPA was reviewing 206 properly allow purposes from 53 initiatives, greater than half acquired up to now 12 months. A complete of 14 ultimate allow choices had been issued. A fast rely confirmed virtually 400 Class VI purposes pending on the state and federal ranges mixed, with about 45 whole permits accredited.



Class VI injection wells inject carbon dioxide for long-term storage to cut back emissions to the ambient. Figure is to not scale.

“There’s ongoing technical dialogue between applicants and the EPA throughout the review process. Much of that discussion centers on engineering design, well construction, subsurface modeling and monitoring programs, all to ensure a safe project,” stated Travis Hurst, director of carbon storage for Carbon TerraVault and a member of the CCUS dialogue panel.

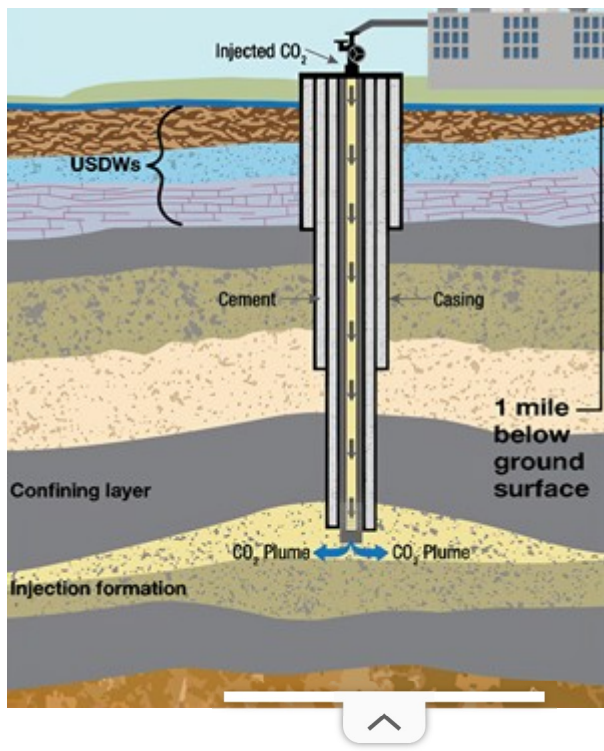
He famous that the EPA’s 14 Class VI ultimate choices contain solely six initiatives, with every properly in a undertaking requiring its personal allow.

“There are applications associated with 53 projects currently in the (EPA) system, and the vast majority remain under active review,” he stated.

Some carbon sequestration initiatives contain a single injection properly, others a number of wells. Permit purposes have are available in [dropdown] elements of the United States, reflecting

The six states which have acquired primacy – the correct to difficulty permits for CO₂ sequestration wells and implement working requirements – are Arizona, Louisiana, North Dakota, Texas, West Virginia, and Wyoming. At least eight different states have utilized for Class VI primacy, or have introduced that they plan to use. According to the EPA, primacy is granted solely to states which have allowing requirements no less than equal to the company’s personal.

In creating Class VI guidelines “the EPA proceeded cautiously. It (CO₂ injection) is not a new technique, but EPA was not familiar with it,” stated Susan Hovorka, senior analysis scientist for the Bureau of Economic Geology on the University of Texas-Austin. She stated that, at first, EPA knew little about multi-phase-flow modeling associated to CO₂ sequestration and grappled with the idea.



Injection of carbon dioxide is often hundreds of ft under the floor into rock formations remoted from underground sources of consuming water. Figure is to not scale.

“At the same time, they were trying to get the rule out quickly because there was congressional pressure to do it relatively fast,” she stated.

Hovorka stated many individuals struggling Class VI allowing suppose “there’s a lot of

“It’s surprising how dramatic people’s concern is. And that’s mostly grounded in lack of information,” she stated.

A major quantity of that concern includes the potential results of injection wells on groundwater. Hovorka famous “the public wants a high level of assurance” concerning the injection allow course of.



The Safe Drinking Water Act authorizes EPA to develop necessities and provisions for the Underground Injection Control (UIC) Program. UIC regulates the injection of fluids – together with wastewater, brines and liquefied CO₂ – into the subsurface for storage or disposal. It’s the premise for EPA’s injection-well allowing.

A Different Ballgame than Class II Permits

EPA additionally points Class II permits for injection, associated to enhanced oil restoration, which embody CO₂ for EOR. At one time it appeared that some operators may attempt to transfer their Class II wells to Class VI, switching to CO₂ sequestration and storage as their EOR initiatives matured and performed out. So far, that doesn’t appear to be occurring.

“It seems attractive on the surface because you have experience with CO₂,” Hovorka stated, however taking hydrocarbons out of the bottom is totally different from placing CO₂ in.

“Trying to keep that pressure up (for production) means there’s not a lot of pore pressure space, sometimes there’s no space,” she noticed.

“Another thing is, you’ve  these wells that are compatible with  s II, but they might not be compatible with Class VI,” she stated.

Wells do generally swap. In October, EPA issued three ultimate Class VI permits to ExxonMobil for a undertaking in Jefferson County, Texas. They enable the corporate to transform three current take a look at wells permitted by the state to CO₂ injection wells for long- time period storage, as much as a most whole of 5 million metric tons per 12 months.

The Clock on Class VI

assessment interval of not more than 18 months. So far, state allow approvals have taken much less time.

“They (EPA) get more applications, so it’s taking them longer to run through all those applications. Also, there are more things happening at the federal level that at the state level that affect the timeline,” Nwoko famous.

Hurst stated Class VI allow candidates like Carbon TerraVault have advanced in understanding what satisfies the regulators’ technical necessities.

“As an industry, we’re continuing to refine our understanding of regulatory expectations and technical standards,” he famous. “In any new permitting framework, the earliest applications tend to take longer, but over time the process becomes more clearly defined, and we’re beginning to see that.”

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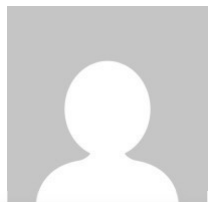
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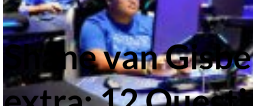
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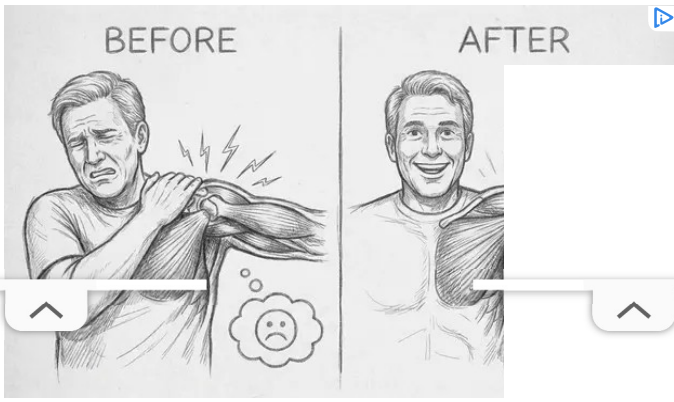




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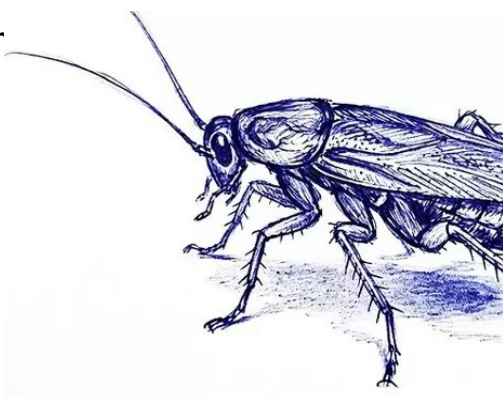




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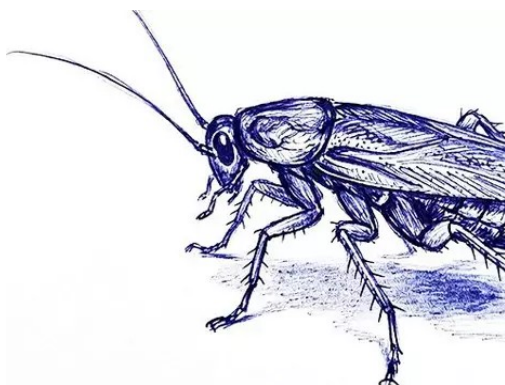
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