

CCS/CCUS in Wyoming

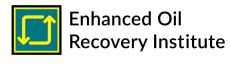
Insights on Class VI Wells, Wyoming Pipeline Corridor Initiative and CCS/CCUS Advancements

NASEO 2024 Annual Meeting

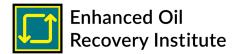
New York, New York September 29 – October 2, 2024







Lon Whitman – Director Casper, Wyoming



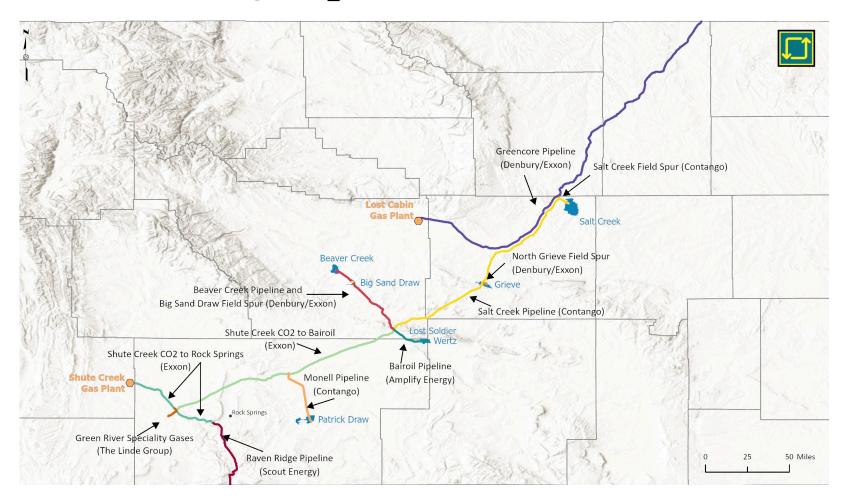
EORI: Who We Are and What We Do

- State funded agency located in Casper, Wyoming
- Team of Petroleum Geologists, Petroleum Engineers and Support Staff including Data Architects, GIS Specialists and Pipeline Support Services
- Funded to work collaboratively with oil and gas operators in Wyoming to increase production and reserves and extend field life
- No cost to the operator revenue to the State through taxes from increased production
- A collaborative partner with University of Wyoming –
 School of Energy Resources (SER)

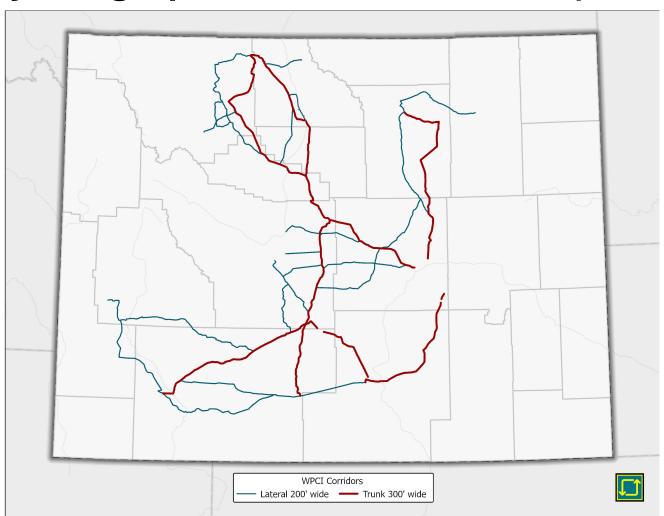
Wyoming...A Favorable CCS/CCUS Business Landscape

- Developed CO₂ Transportation Infrastructure
 - Wyoming Pipeline Corridor Initiative (WPCI)
- Class VI Primacy
- Supportive State Legislation
 - Pore Space Ownership
 - Unitization.
 - Long-term Storage and Trespass Liability
- 40-Year History of CO_2 -EOR and associated, permanent storage of CO_2 in Wyoming oil and gas fields

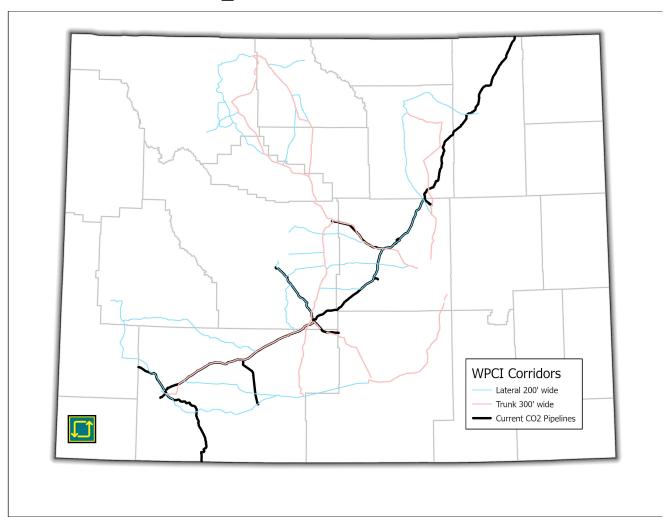
Wyoming CO₂ Pipeline Infrastructure



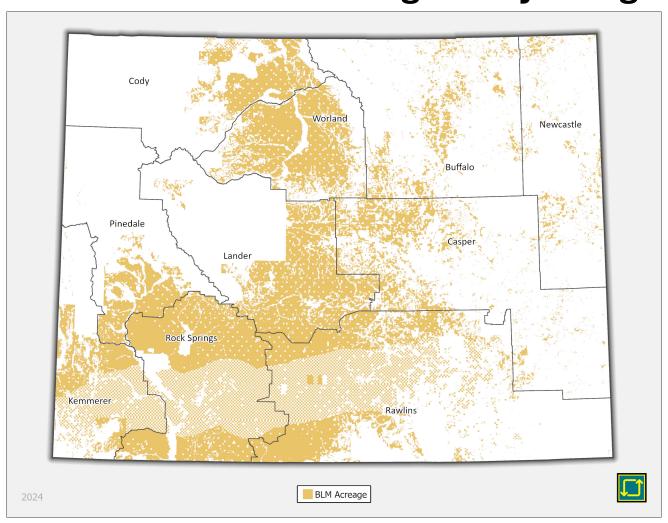
Wyoming Pipeline Corridor Initiative (WPCI)



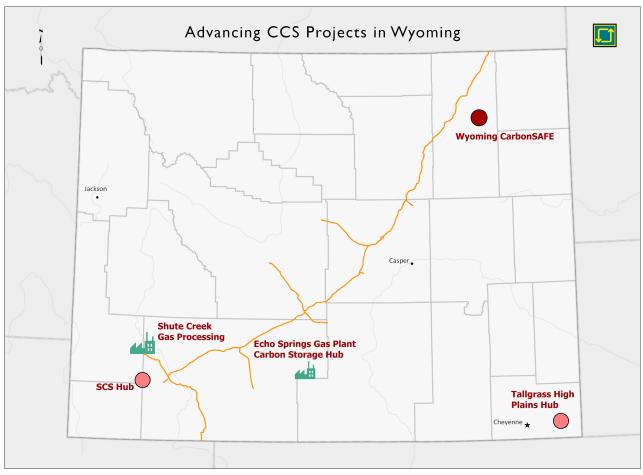
Current CO₂ Infrastructure and WPCI



BLM Offices and Acreage in Wyoming



Advancing CCS Projects in Wyoming



ExxonMobil La Barge Capture Facility - SW Wyoming

- Largest capture facility in the world, capturing 6-7 Mta (million tonnes/annually)
 - Nearly 20 years of geological sequestration at Shute Creek
 - Recently announced expansion plans increase storage by over 1 Mta

Frontier Carbon Solutions - Sweetwater Carbon Storage Hub (SCS) – SW Wyoming

- · 3 Class VI Permits approved
 - Plans being finalized to drill injection wells in 2024
- Initial Injection Capacity 1.5 Mta
- Total Estimated Storage Capacity 550 Mtonnes
- CO₂ Commitments from multiple partners Point Source

Williams Companies – Echo Springs CarbonSAFE II WY Hub – SW WY

 Evaluating the potential of storing CO₂ in the eastern Green River Basin within the Wamsutter Gas Field

Tallgrass High Plains Hub - SE WY

1 Class VI Permit Approved

SER/University of Wyoming – Wyoming CarbonSAFE III – NE Wyoming

- Drilled and Completed 2 wells to Class VI standards
- Completed NEPA

Class VI Well Permitting in Wyoming

- Permitting of Class VI Wells in Wyoming is handled by Wyoming Department of Environmental Quality
- <u>WWW.deq.wyoming.gov</u> → Divisions Tab → Water Quality → Ground Water
 → Underground Injection Control → Class VI Wells
- Currently:
 - 3 Class VI permits have been Issued by DEQ
 - Frontier Carbon Solutions
 - 6 Class VI Permits are in Public Notice Period or Under Review at DEQ
 - Tallgrass
 - Casper Carbon Capture
 - 17 applications in process for submittal in 2024/2025
 - 2 applications to convert Class I wells to Class VI anticipated late 2024/early 2025.

Thank You



20 Years of Dedicated Service to the Oil & Gas Industry of Wyoming



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