



Oil & Gas Innovation in New Mexico

New Mexico Legislature, Interim Economic Development &
Policy Committee

EOG Resources, Inc: A Continued Commitment to New Mexico

- Operates in the Permian and the San Juan Basins
- Innovates as a key to sustainable operations
- Leverages data for continuous operational improvements: “Apple of Oil”



Location Selection: Surface Considerations

- Staking a well site
 - Topographical considerations
 - Archeological/cultural resources surveys
 - Endangered or threatened animal species
 - Endangered or special status plant species



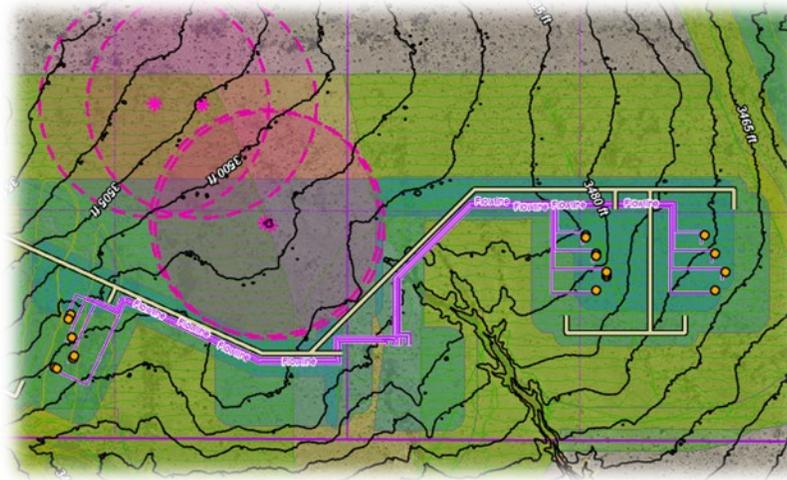
Source: www.cehmm.org



Well Planning and Resource Conservation Through Innovation

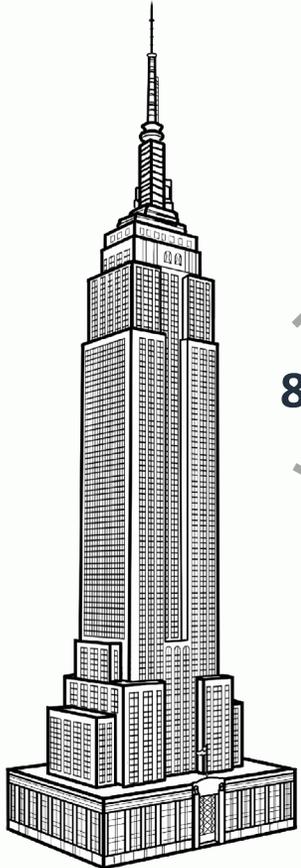
Fixed wing aircraft and drones

- 3D Visualization, modeling, animations, and depiction of terrain
- 360-degree panoramic views of project and high resolution near surface photos
- Drone imagery and data is uploaded into an active web portal
 - Increased transparency with BLM and NMSLO
 - Increased safety and efficiency



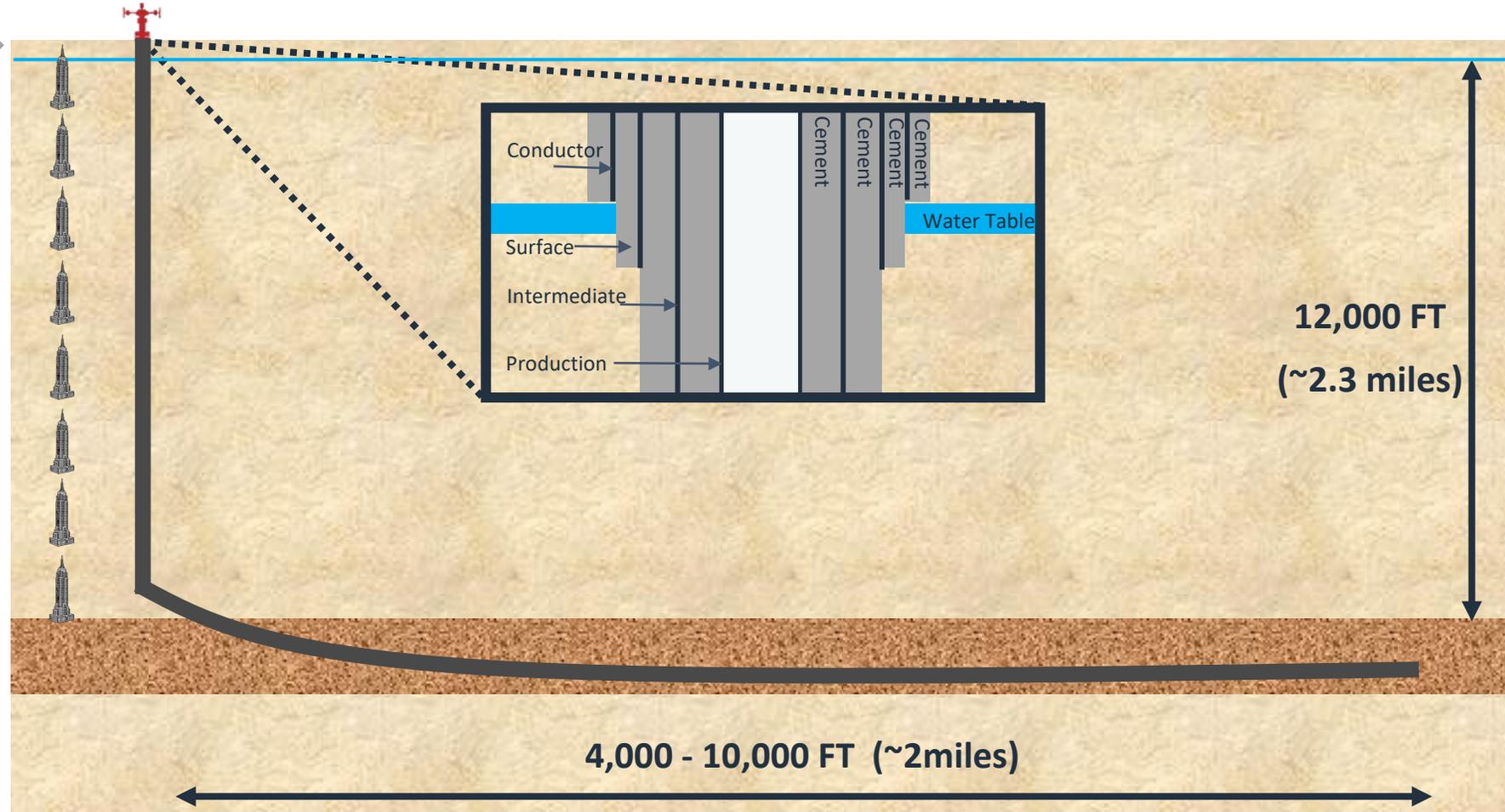
Where Does Hydraulic Fracturing Occur?

Empire State Building



1,454 FT

8.3 x

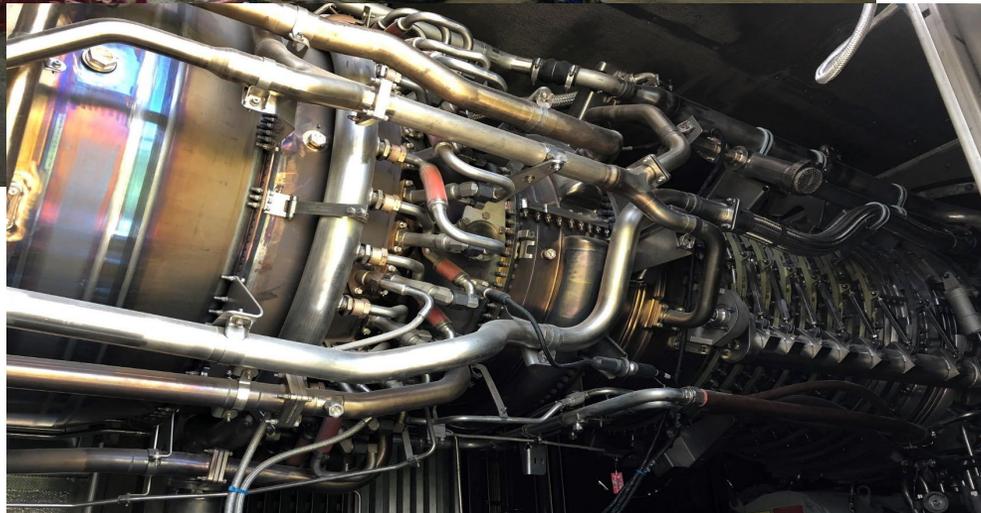


12,000 FT
(~2.3 miles)

4,000 - 10,000 FT (~2miles)

Tackling GHG Emissions with Innovation: Electric Frac

Natural Gas-Powered Hydraulic Fracturing in New Mexico



Advantages:

- Smaller footprint
- Utilizes field gas for power generation
- No fuel deliveries
- Less truck traffic
- 87.5% noise reduction

Water Conservation Through Innovation: Water Reuse Systems

Significant Reductions for Fresh Water Demand in New Mexico

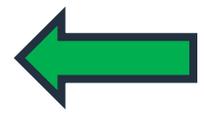
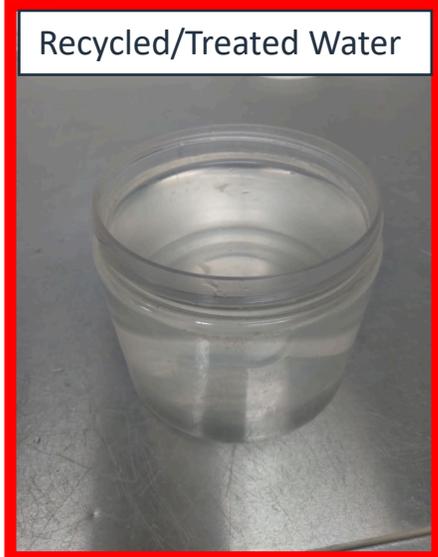
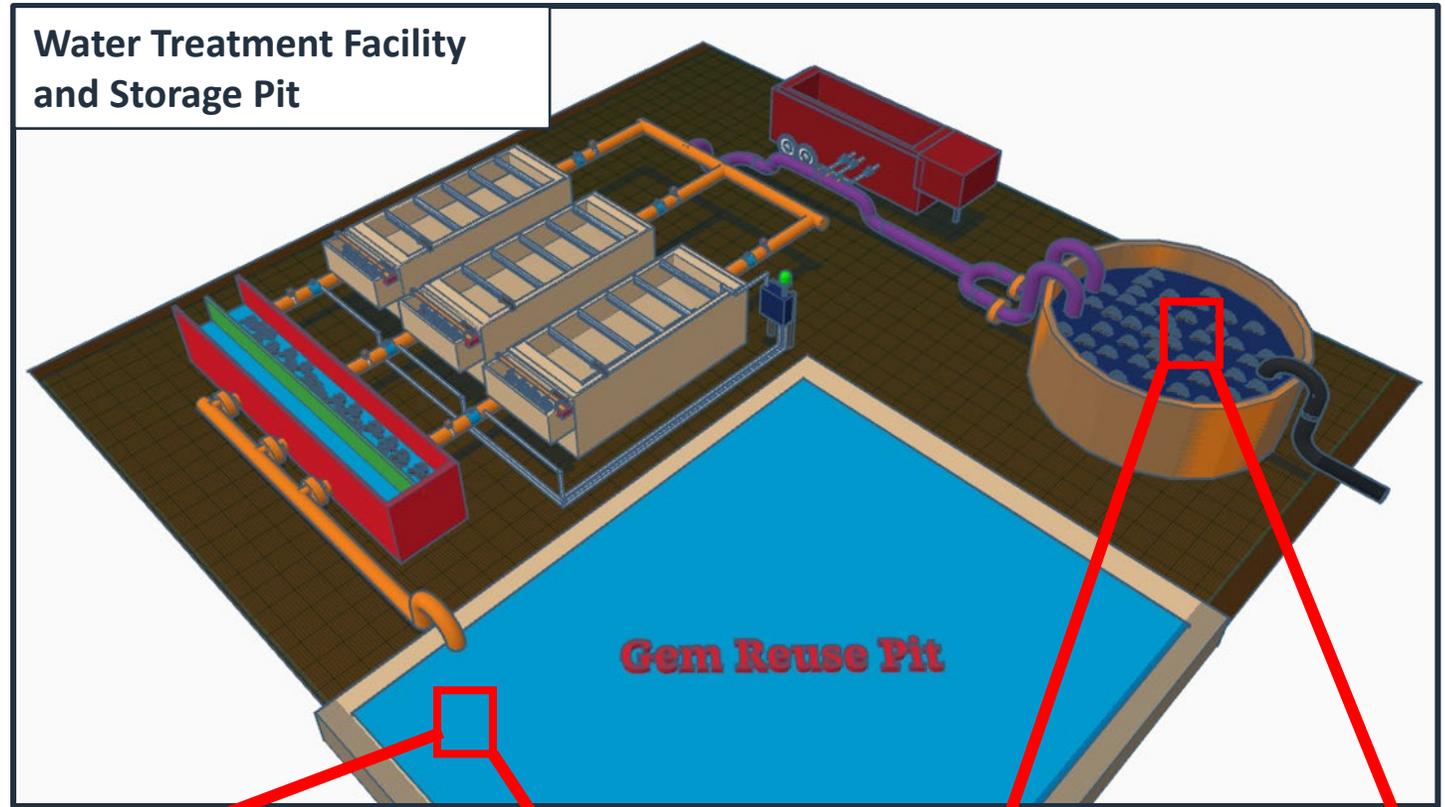


Considerations:

- Incentivized via NM's Produced Water Act
- Regulated by 19.15.34 NMAC
- Significant pre-existing investments
- Delivery infrastructure minimizes truck traffic

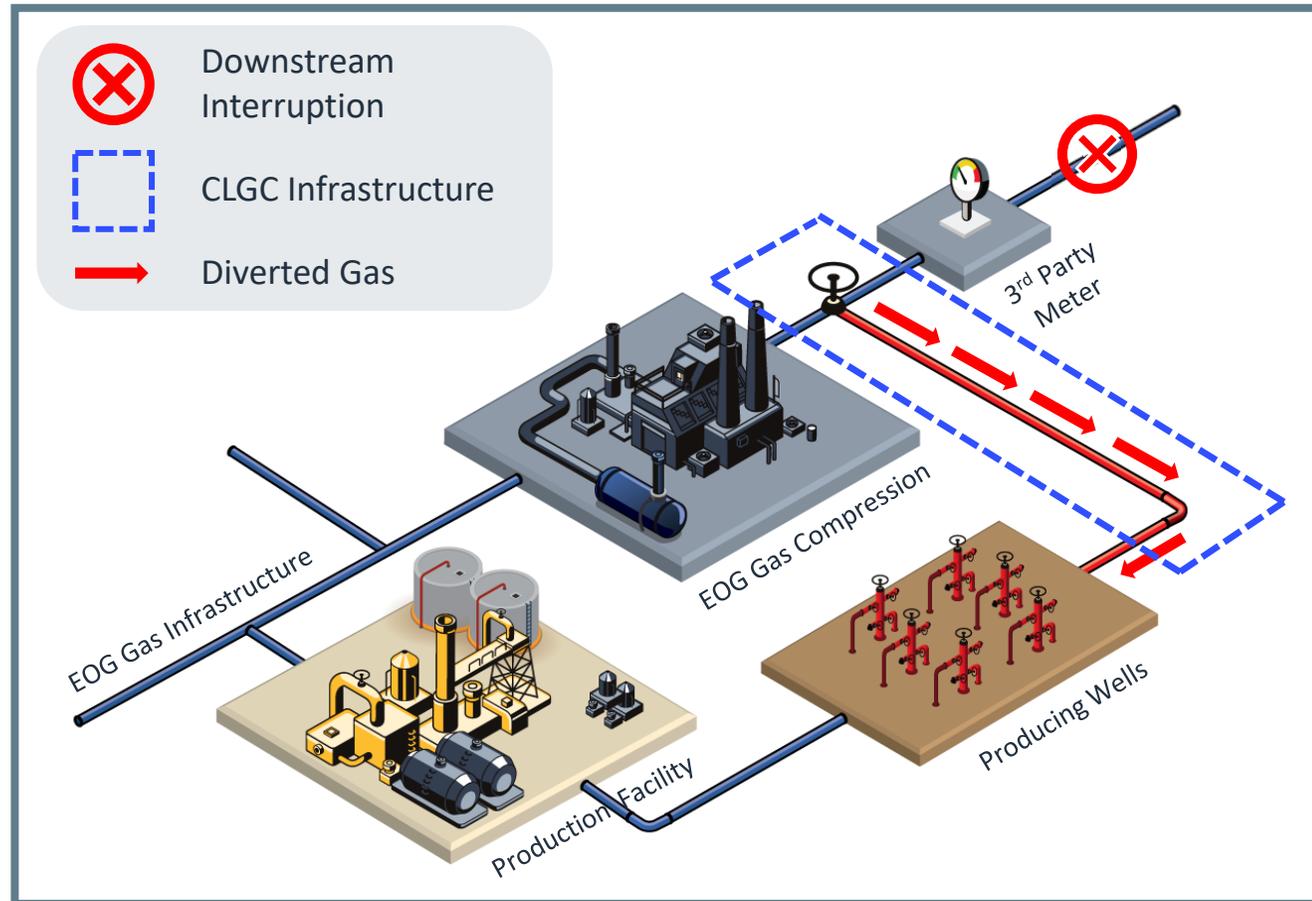
Types of Water

- **Reuse Water**
 - Delivered by the Water Gathering System (WGS)
- **Recycled/Treated Water**
 - Primary source of completions water
- **Non-Fresh Water (>1,000 ppm TDS)**
- **Fresh Water (<1,000 ppm TDS)**
- **Blended Water**
 - Increases economic efficiency
 - Increases capacity



Tackling GHG Emissions with Innovation: Flaring Reduction

Closed-Loop Gas Capture (CLGC) Pilot



Project Scope:

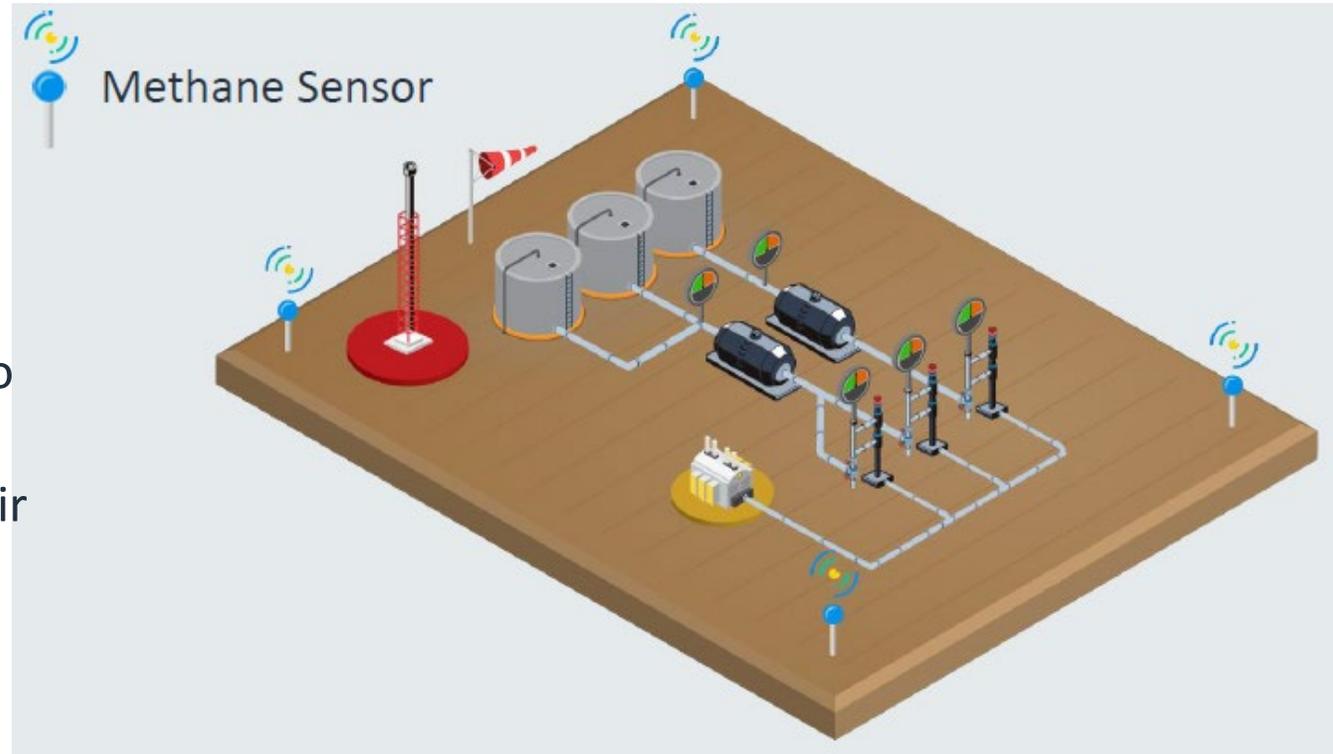
- Automated Flow Control to “Close Loop” Between Compression Station and Producing Wells

Targeted Impact:

- Reduce Flaring and GHG Emissions Resulting from Downstream Interruptions by Temporarily Diverting and Reinjecting Gas into Existing Wells
- Revenue/Royalty Uplift from Recovery of Natural Gas Volumes that Would Have Otherwise Been Flared

Tackling GHG Emissions with Innovation: iSense

- **Continuous methane monitoring technology**
- **Integrate data with existing operational data from EOG's proprietary systems**
 - Analyze production and facility data to conduct root cause analysis
 - Prioritize resources and dispatch repair measures



Thank you!