



U.S. DEPARTMENT OF  
**ENERGY**

Fossil Energy and  
Carbon Management



Consortium  
Advancing  
Technology for  
Assessment of  
Lost Oil & Gas  
Wells.

# DOE Fossil Energy Carbon Management Undocumented Orphaned Wells R&D Program UOWP CATALOG

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*Pictures Source: PADEP*

# Bi-Partisan Infrastructure Legislation

## Relevant Appropriations Language

### Section H2 (a, b)

Conduct research and development activities in cooperation with the Interstate Oil and Gas Compact Commission to assist the Federal land management agencies, States, and Indian Tribes in--

(A) identifying and characterizing undocumented orphaned wells; and

(B) mitigating the environmental risks of undocumented orphaned wells;

## Program Budget

DOE's Undocumented Orphaned Well Program will be executed over **5 years with \$30M** in appropriated budget.



# Undocumented Orphaned Well Program Focus

## Bipartisan Infrastructure Law Abandoned Well Scope

### DOE/FECM (\$30M)

#### Well Finding

Identification

Characterization

“Conduct **R&D** in cooperation with IOGCC”

“assist the Federal land management agencies, States, and Indian Tribes in--

(A) identifying and characterizing

**undocumented** orphaned wells”

(B) mitigating the environmental risks of undocumented orphaned wells

### DOI/BLM/States/Tribes (\$4.7B)

#### Well Plugging Programs

Inventorying

Ranking Prioritization

Plugging

Remediation

Reclamation

Well Sites

Pipelines

Human Health

Other (see BIL)

# Key Partnerships and Stakeholders

## National Laboratories

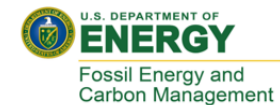
- Data Analytics/Machine Learning (critical to disparate datasets)
- Well characterization (subsurface and surface)
- Experience with detecting and characterizing undocumented wells
- **NLs** will be critical in identifying existing and new technology pathways

## IOGCC (States)

- The **IOGCC** will collaborate with individual State Environmental Agencies to gain critical insight into best practices and technology development needs.
- The **IOGCC** will develop and maintain a list of critical points of contact within the **States** and assist in maintaining effective communications.

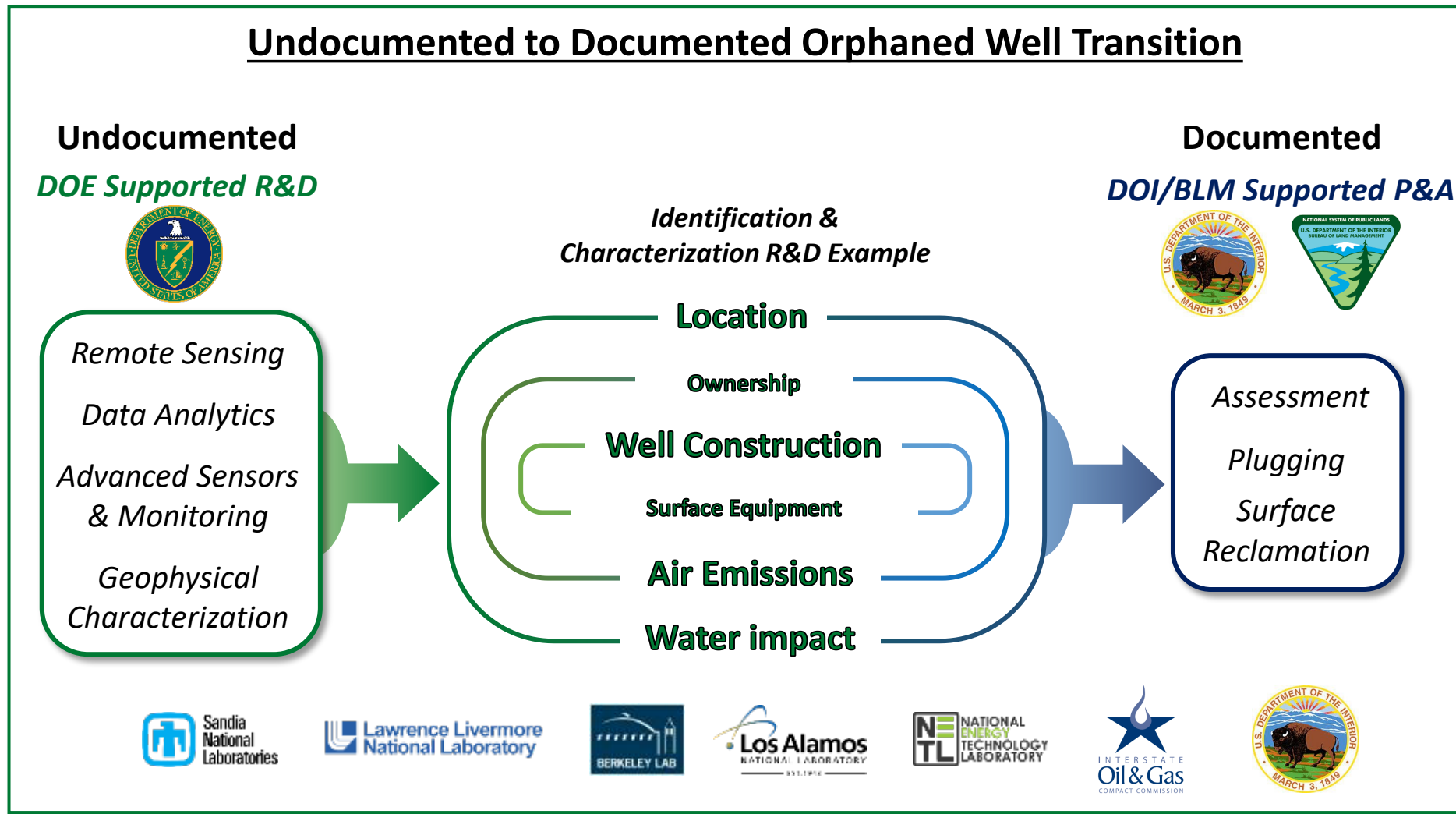
## DOI, BLM

- Understanding the technology needs and estimation of undocumented orphaned wells.
- Collaborate to ensure effective communications and project engagement.
- Conduct critical identification and characterization of undocumented orphaned wells.

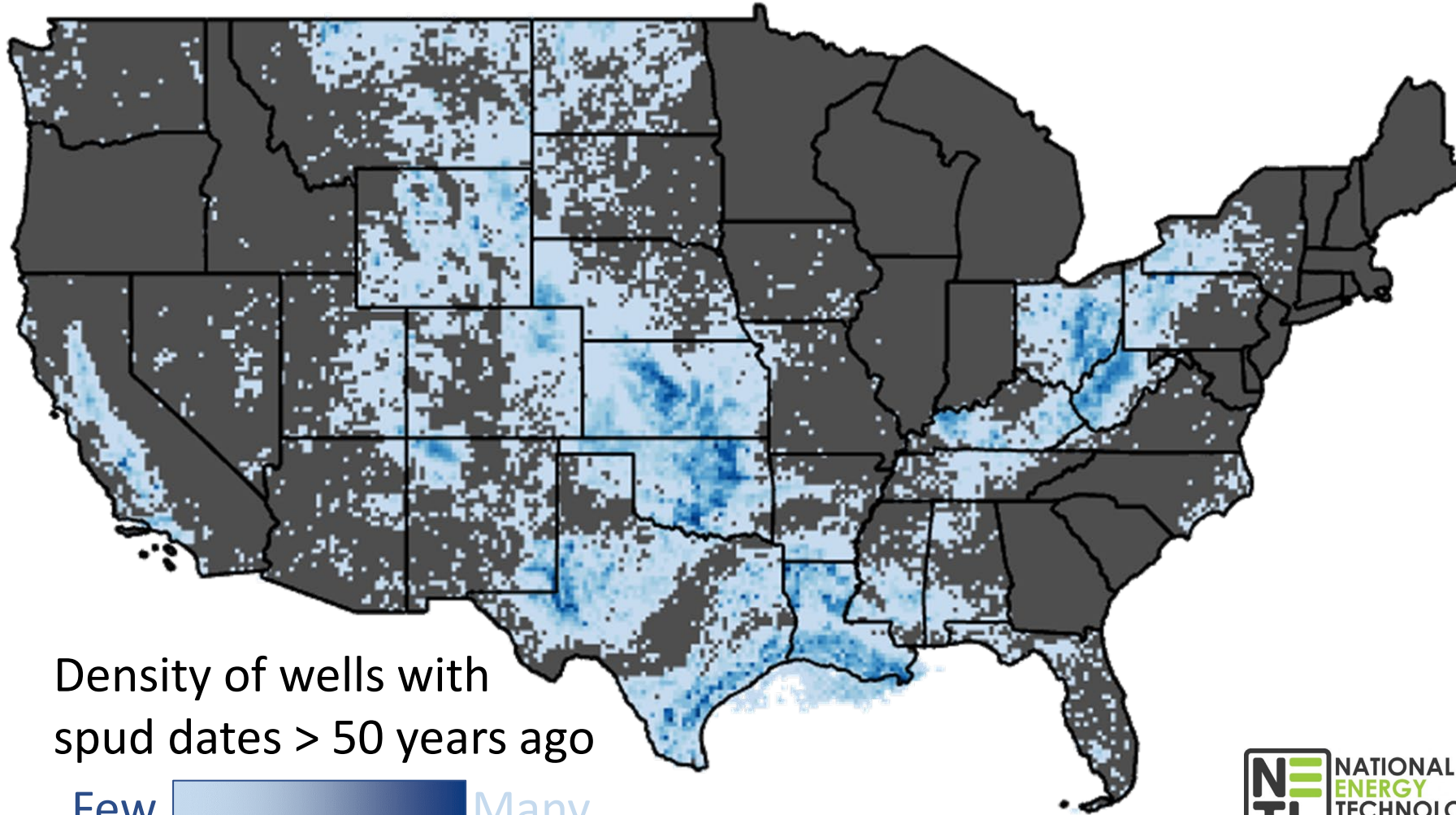




# DOE Undocumented Orphaned Well Program Focus



# National Wells Database



## Sources

- States
- Tribes
- Private
- DOI
- GWPC
  - Well Finder App
- NGOs

## Attributes

- Comparison and ranking via sources etc.
- Evergreen
- Tag back to managing agency.
- Framework for additional well data



# Questions

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