

# Helium Resources

- Federal Leased Lands Team
  - Adjudicate Helium Rights
  - Collect and Audit Helium Revenues
  - Administrate Helium Contracts
  
- Evaluation and Analyses Team
  - Gas Analysis
  - Field Survey
  - Storage Program & CHEU
  - 28,000+ Analysis Database

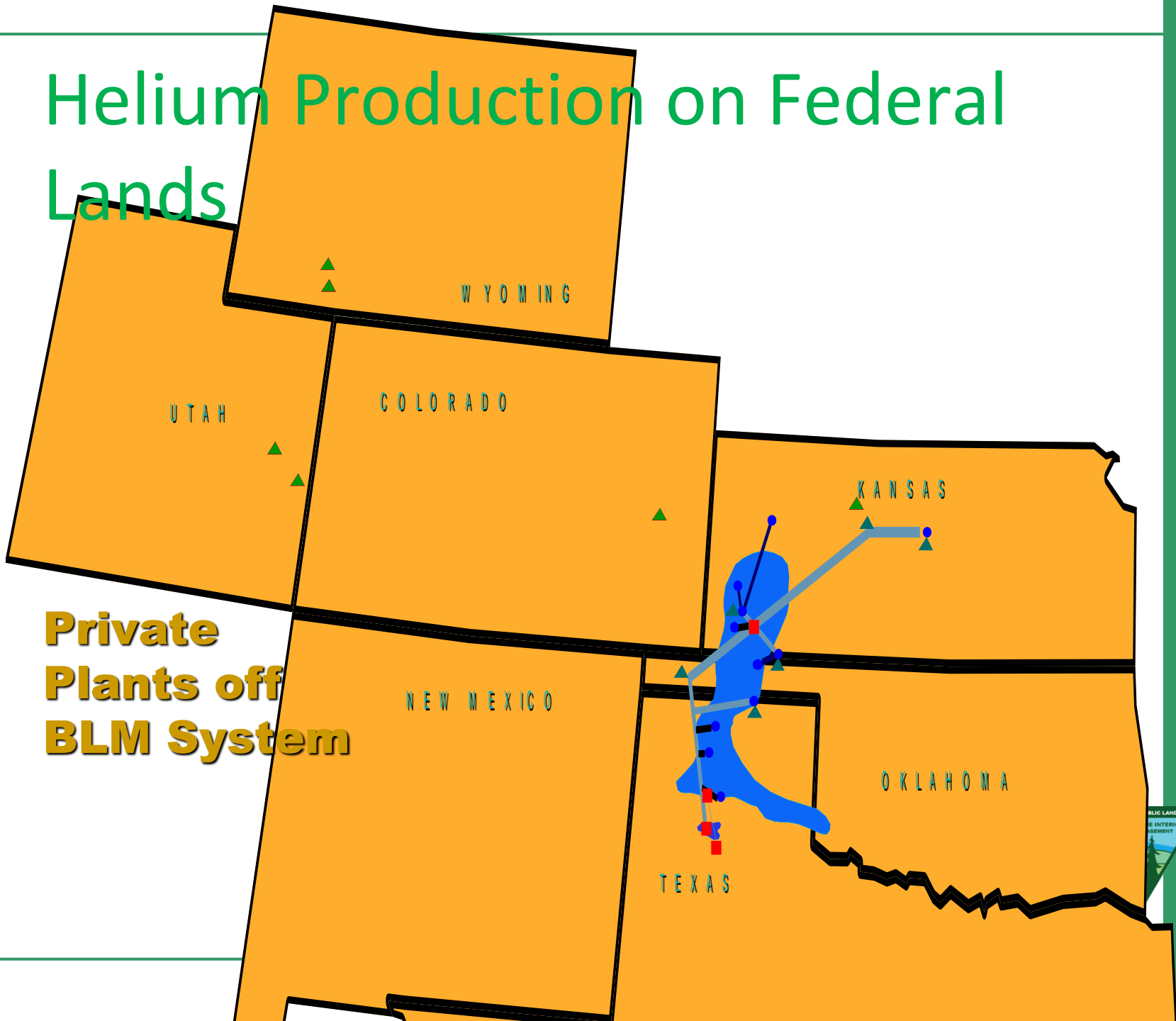


# Helium Production on Federal Lands

- Determine Helium Ownership Rights
- Collect & Audit Fee Sales & Royalties
  - Implemented via ‘Helium Sales Contract’
  - \$17.2 million      FY-16
  - \$18.5 million      FY-17
  - \$19.2 million      FY-18
  - \$22.2 million      FY-19
  - \$23.0 million      FY-20



# Helium Production on Federal Lands



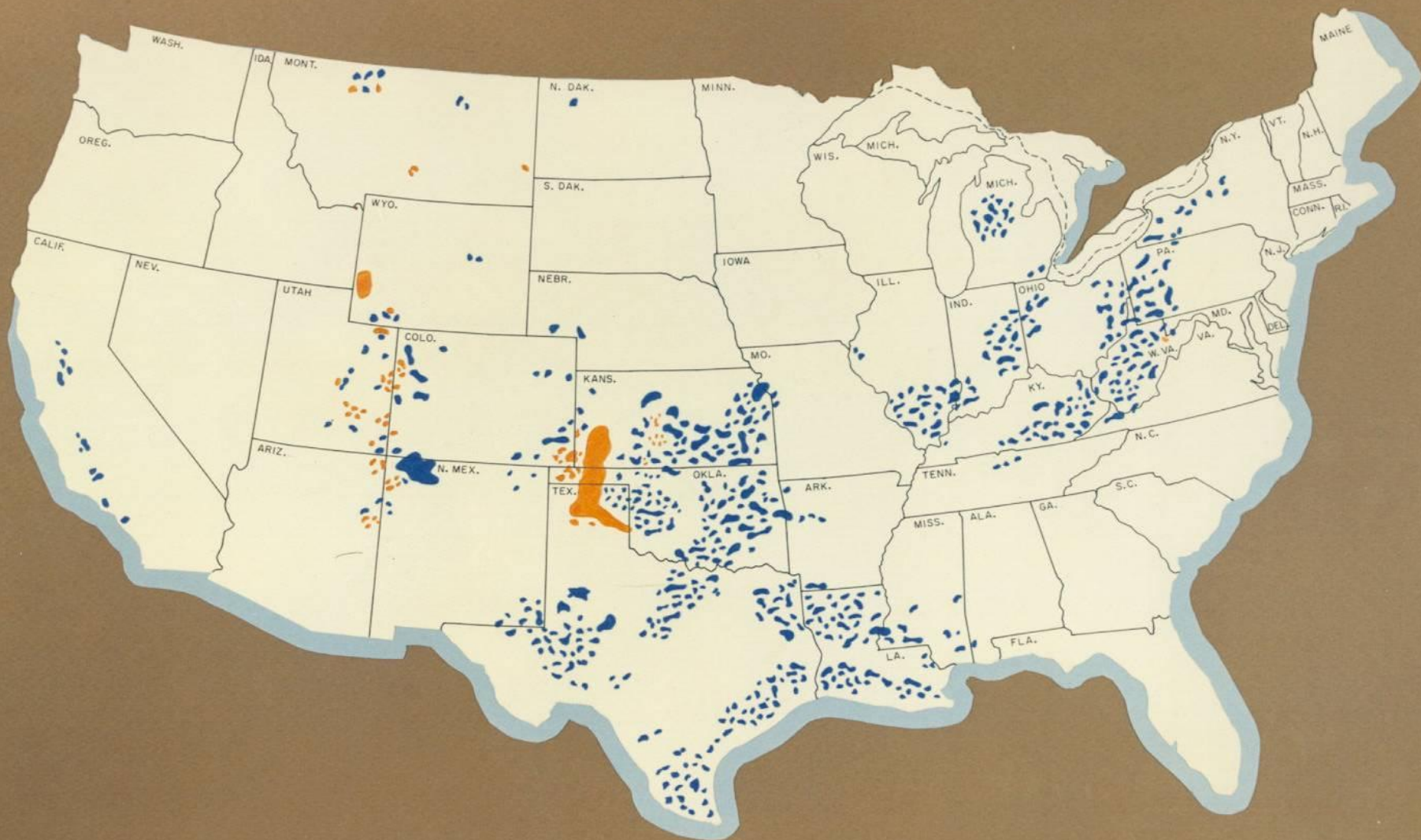
**Private  
Plants off  
BLM System**

# Helium Evaluation & Gas Analysis

- Gas Analysis
  - Field Survey (Q+Q)
  - Storage Program
  - Federal Leased Lands
  - 28,000+ Analysis Database



# MAJOR GASFIELDS OF THE U.S.



-  HELIUM CONTENT LESS THAN 0.3%
-  HELIUM CONTENT 0.3% OR GREATER

# Global Helium Plants

- USA 17 Private Helium Plants on BLM Helium Pipeline
- USA 5 Private Helium Plants independent of Helium Pipeline
- Algeria 2 Private Helium Plants (Arzew and Skikda)
- China 1 Private Helium Plant (Sechuan)
- Russia 2 Helium Plants (Orenburg and Azur)
- Poland 1 Private Helium Plants (Odolanow)
- Qatar 1 Private Helium Plant



# Global Helium Production (Bcf)

Year	U.S. Domestic	U.S. Exports	Rest of the World	Total
2016	1.47	2.24	1.47	5.18
2017	1.42	2.67	1.43	5.62
2018	1.45	3.03	1.38	5.96
2019	1.39	3.82	1.42	6.47
2020	1.17	3.61	1.27	6.05



# Typical Helium Uses

