# NORTH CAROLINA OIL AND GAS COMMISSION MEETING MAY 14<sup>TH</sup> 2019

Follow-up to State Comparison of Oil and Gas Programs February 2019
Which was presented by NC DEQ Staff in February

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## STATE COMPARISON OF OIL AND GAS PROGRAMS FEBRUARY 7 2019

- Pits, Tanks, Set-backs and Pooling
- States Compared
  - Tennessee
  - West Virginia
  - Arkansas
  - Pennsylvania
  - Ohio
  - New York
  - North Carolina

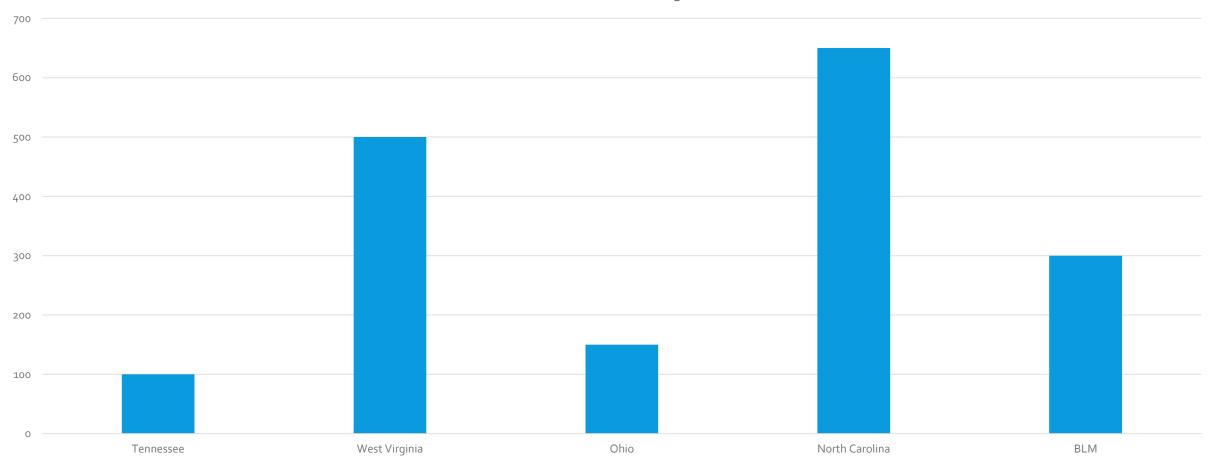
## **MEASURABLES**

- Pits
  - Setbacks
  - Freeboard
  - Berm
  - Horizontal to Vertical Ratio
  - Reclamation Time
- Liners
  - Thickness
- Well Location Setbacks
  - Unit Boundary
  - Dwelling
  - Source of Water
  - Other O&G Wells

## ADVANTAGE OF USING MEASURABLES

- Quantify
  - State in numbers
- Precision
  - Clear, indisputable
- Charts and Graphs
  - Allows for quick visual comparisons
    - Meeting, exceeding or lagging behind other state standards
- Ease of comparing more states
  - States and Agencies Added
    - North Dakota
    - Colorado
    - Wyoming
    - New Mexico
    - BLM

#### Setback from dwelling (ft)



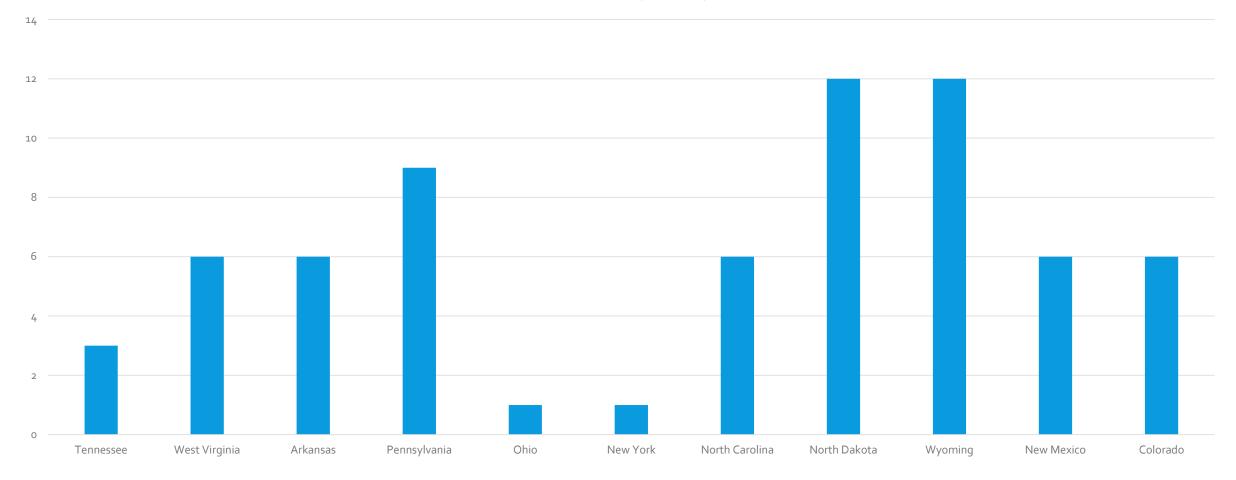


#### Setback from Public Water Source (ft)



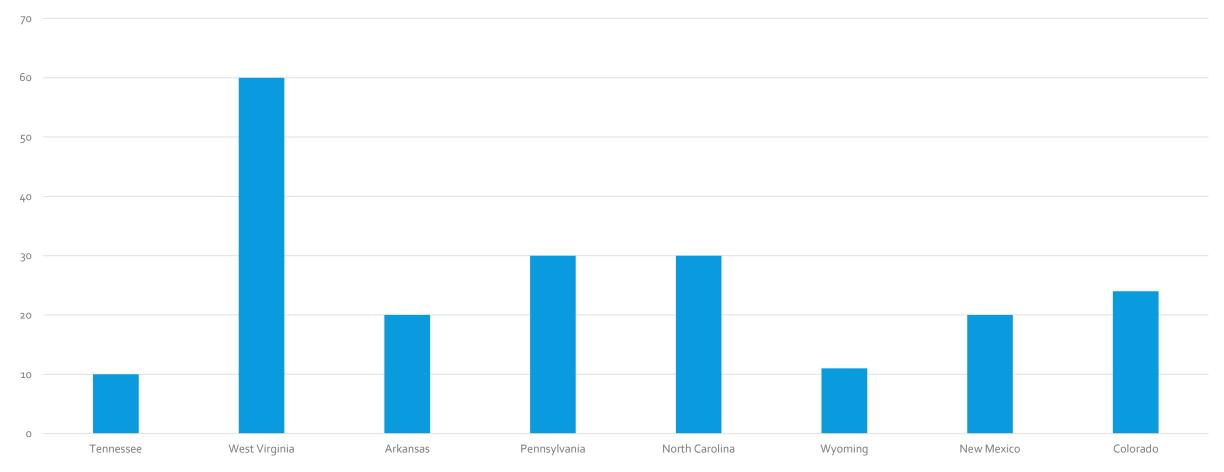


#### Reclamation (months)





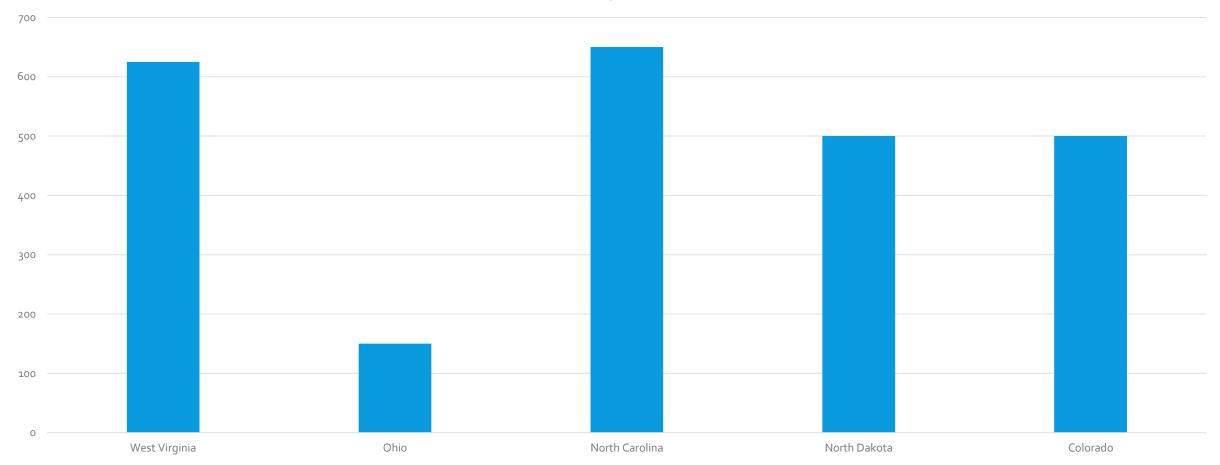
#### Liner Thickness (mm)





- Property Line
- Unit Boundary
- Dwelling
- School
- Body of Water
- Water Well
- Other Wells
- Roads



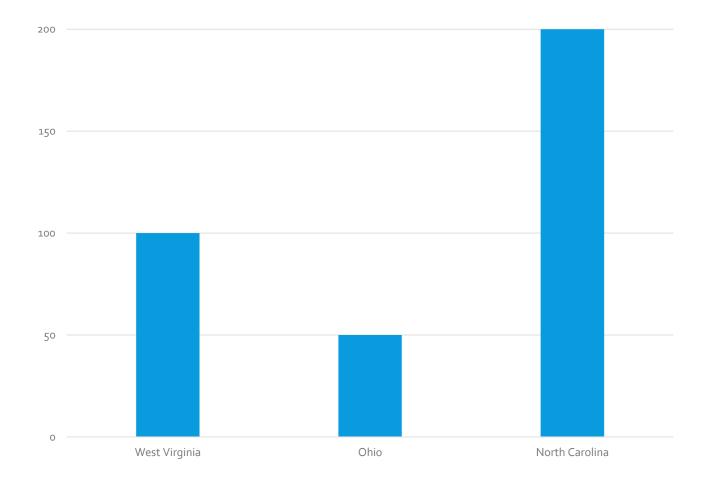


**Dwelling Unit** 

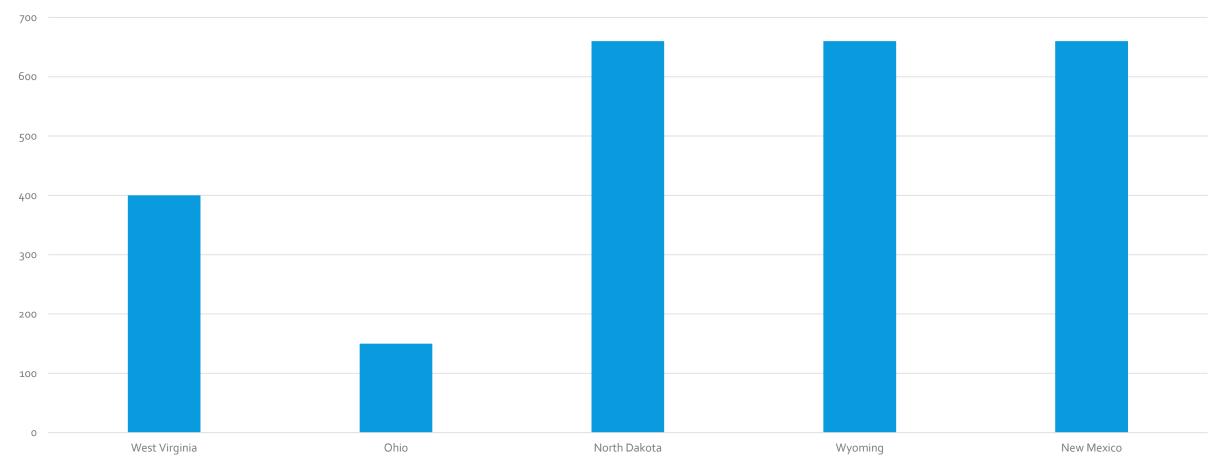
Body of Water
 Includes perennial stream,
 river, watercourse, pond, lake,
 wetlands, and artificial body of water.

#### Body of Water (ft)





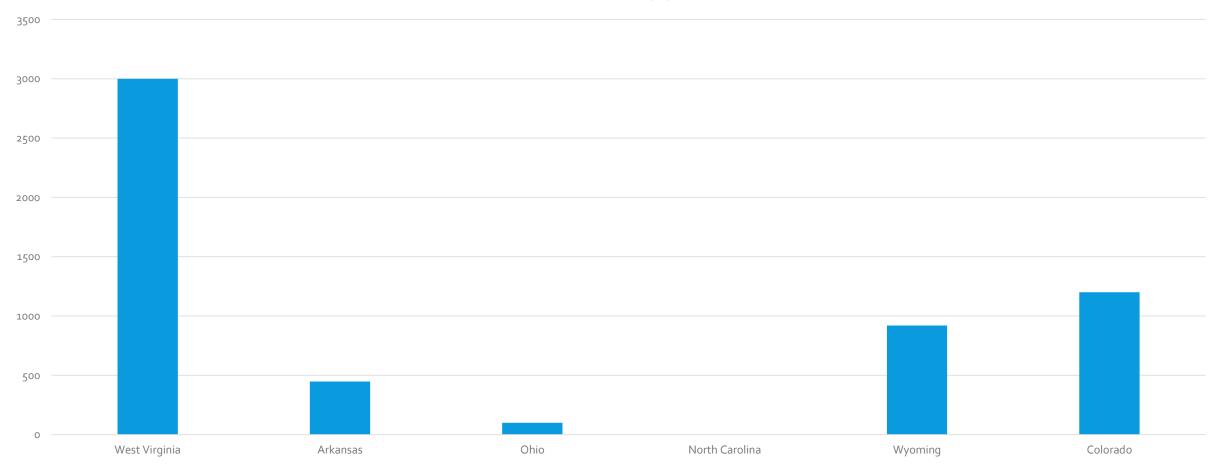
#### Property Line (ft)



### WELL LOCATION SETBACKS

**Property Line** 





Other Wells

## **SUMMARY**

- Regulations defined by numerical values lend themselves to chart comparisons
- Based on this limited, first pass study, NC meets or exceeds requirements
- A complete data set is the goal
- More States will be added for a more complete comparison
- Uniformity in the definitions of the categories is needed