

PRODUCED WATER PIPELINE

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Approach

- Knowns
- Known Unknowns
- Unknown Unknowns



OKLAH
DEPARTMENT OF ENVIRON

Knowns



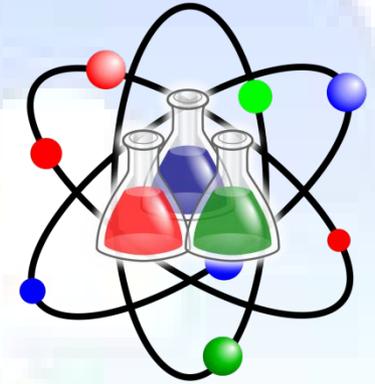
- Legislation
 - SB 287 (February-May 2017 Session)
- Jurisdictional Authority
 - MOU between ODEQ and OCC
- Regulations
 - General requirements for construction (OKR10)
 - 24 hour oral, 5 day written reporting of spill or release (40 CFR 122.41)
 - Discharge of hydrostatic test water (OKG27)

More Knowns

- Water is heavy
- Moving water can be expensive and energy intensive
- Water chemistry can be challenging
- Using and reusing produced water in the oil and gas sector:
 - Reduces reliance on fresh water
 - Moves us closer to Water for 2060 goals
 - Makes energy production more drought resistant

Known Unknowns

- Cost of water movement
 - Economic
 - Social
 - Psychological
- Water induced reactions in the different formations



More Known Unknowns

- Ultimate disposal costs and impacts
 - What will happen with 98th meridian discharge restriction?
 - Construction/regulation of central treatment facilities
 - Pipelines to pump “both ways”
 - ELG prohibition
 - Location of disposal wells
 - Seismicity in Oklahoma



More Known Unknowns

- Regulatory structure
 - Similar to other water reuse
 - New scheme
 - Hybrid



Unknown Unknowns

- Time will tell...
- Ground Water Protection Council, DOE, EDF current study underway



STRANGE
ENGINEERING

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AUTOMOT
REPAIR

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STOP

FASTEN
Your
Seat
Belt

