Environmentally Friendly Drilling Systems Program

Electrification

For
Oil and Gas Operations

October 22, 2015
Environmentally Friendly Drilling Program

A collaborative effort
Industry – Academia - Government
Environmental Organizations

Providing unbiased science to identify, develop and transfer critical, cost effective technologies for safe and environmentally friendly developments.

www.efdsystems.org
Together
Everyone
Achieves
More

EFD Team

Texas A&M University
LEID LLC
Management Team

COLLABORATORS
CEA
HART
ENVIRONMENTAL ORGANIZATIONS
American Association of Petroleum Geologists
Eco Alliance
GSi
GroundWater
GWI
AACOG
PTHC

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ENVIRONMENTAL ORGANIZATIONS
EDF
The Nature Conservancy

Sponsors
Newpark Resources

EFD Alliance

UNIVERSITY OF WYOMING
Welcome

Thanks to our Sponsors!

Utilizing Natural Gas Fuel Into Electric Power for oilfield operations
Air Quality Program

- How to measure all emissions when you don’t know what’s in the air to begin with

Open Path FTIR
Field Activities
Air Quality

- Measurements from compressors and tanks
- Wireless sensors to take measurements around rigs, compressors and tanks
- Use drone to take measurements from flares and ponds
- Identify and document the Non-Combusted Methane in Dual Fuel/Bi-Fuel systems.
- Identify/test technologies to reduce flaring
- Technologies to capture VOC emissions at production facilities.
- EFD Scorecard
EFD program goals include:

• Value to our sponsors through collaborative projects
• Provide regulators, operators and landowners with an objective resource.
• See a measurable decrease in emissions, reduced flaring, more gas being monetized.
• More efficient and economical ways to reduce emissions, utilize gas that would have been flared

Which leads us to our workshop today