

Assessing Emissions from the Natural Gas Distribution System Using Mobile Methane Techniques



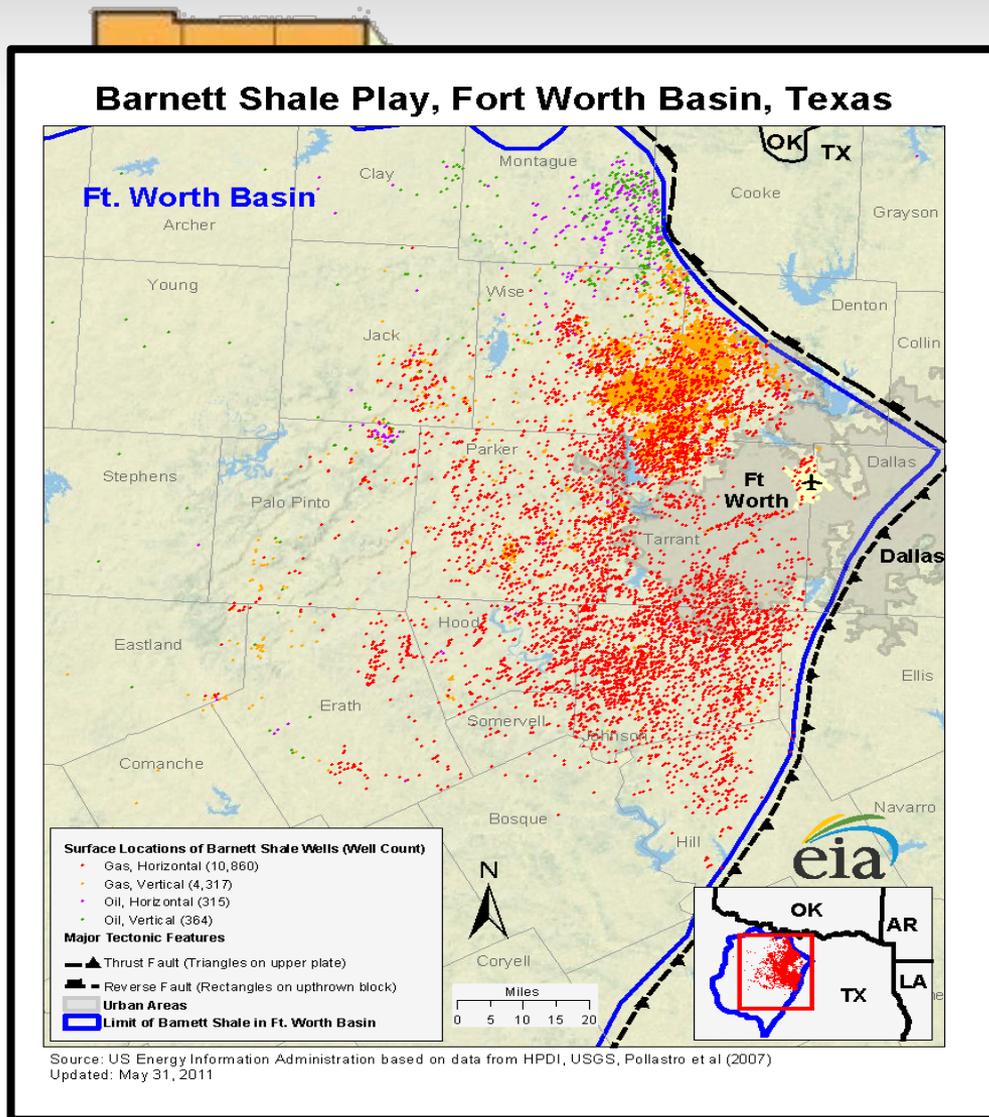
Chris Rella
Picarro, Inc.
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Tracy Tsai, Anders Nottrott, Sean MacMullin, David Steele, Connor Botkin
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PICARRO

Methane Emissions in the Barnett Shale



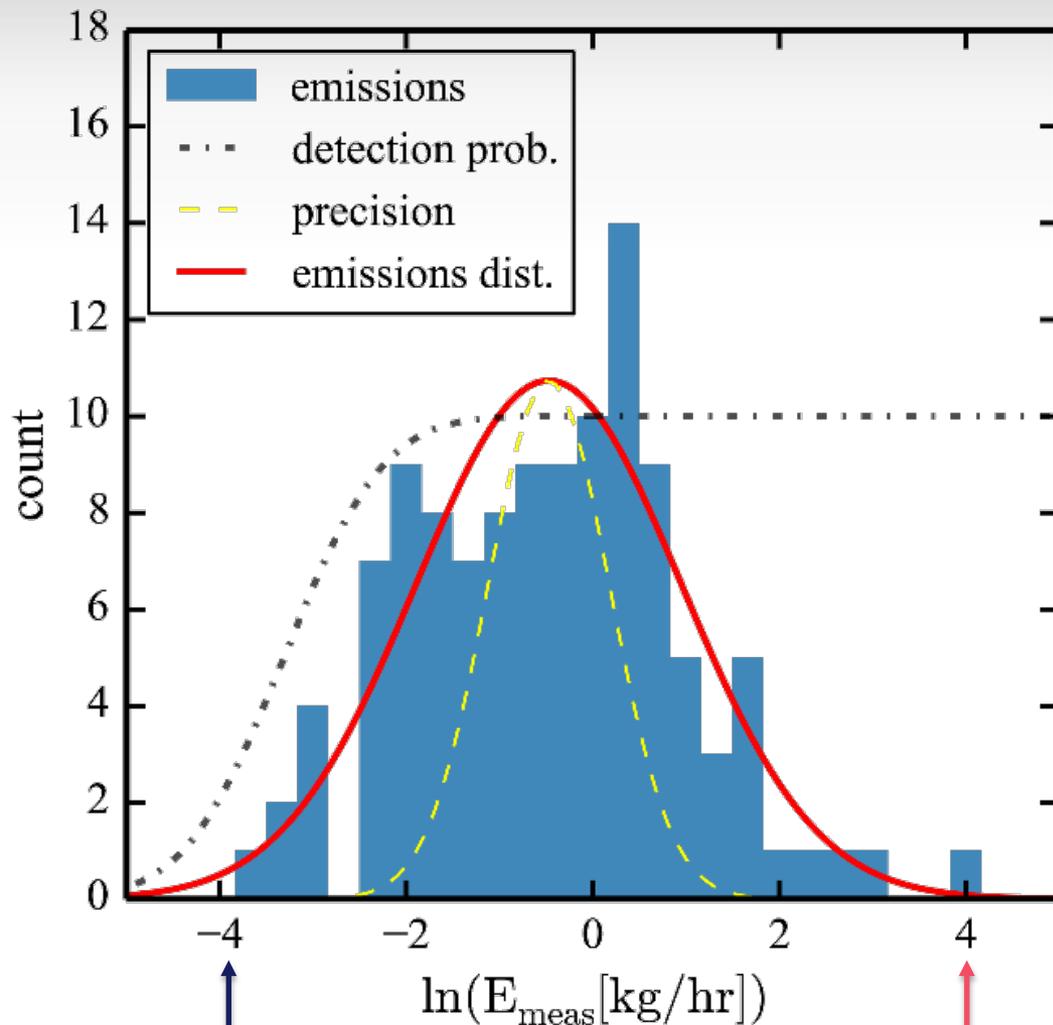
- ~17,500 production well pads (2013)
- Goal: Survey > 100 randomly selected well pad to determine the distribution of methane emissions

“Barnett Coordinated Campaign



Barnett – Distribution of Emissions

- N = 115 randomly selected well pads
- The Mean Emission Rate is 1.63 kg / hr
- 95% of well pads emit between 0.13 and 20 kg / hr

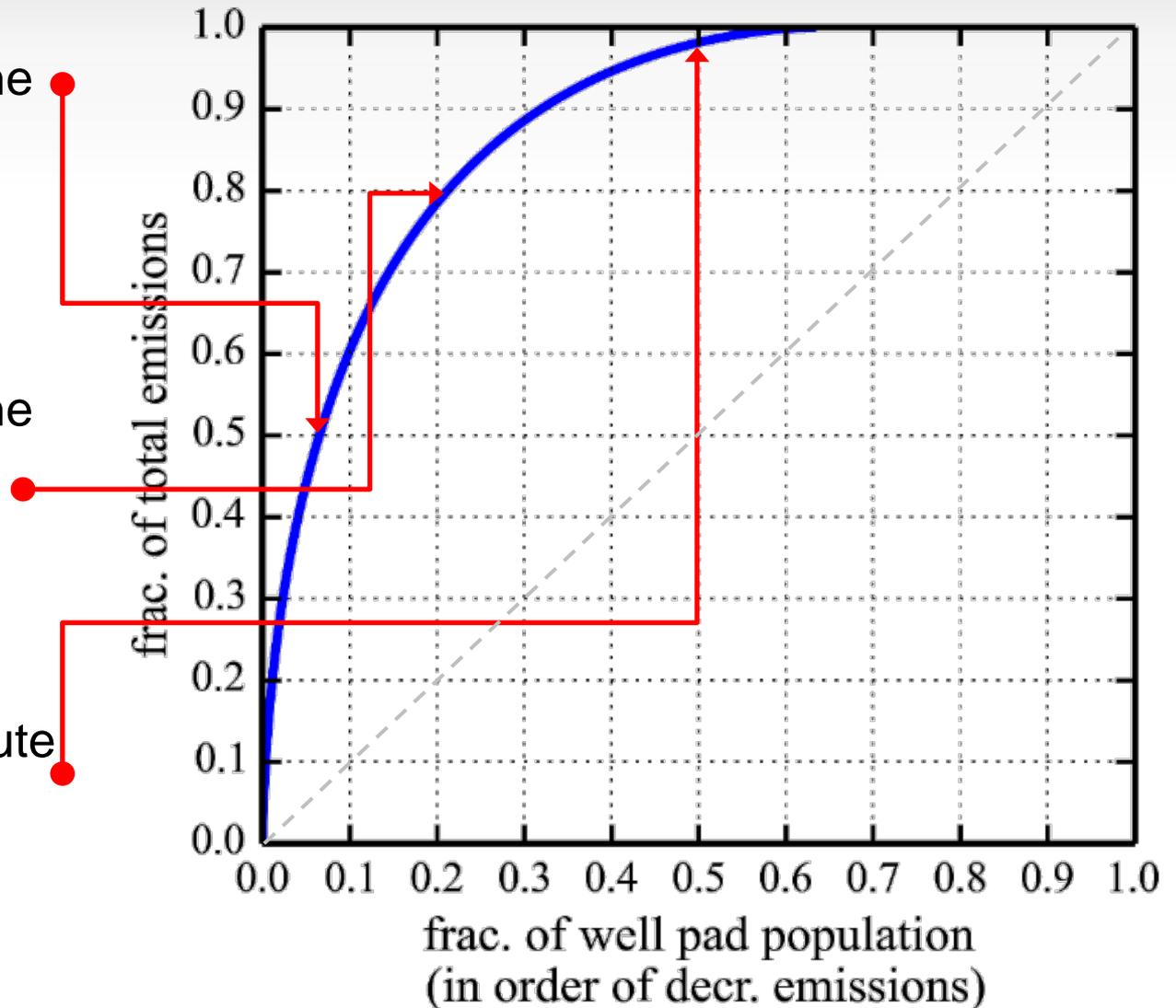


0.02 kg / hr
~ 1 SCFH

50 kg / hr
~ 2,500 SCFH

Well Pads: Skewed Distribution of Emissions

- 50% of the total emissions is from the top 6.6% of the sources
- 80% of the total emissions is from the top 22% of the sources
- The bottom 50% of the sources contribute less than 2% of the total emissions.





Thank You!