



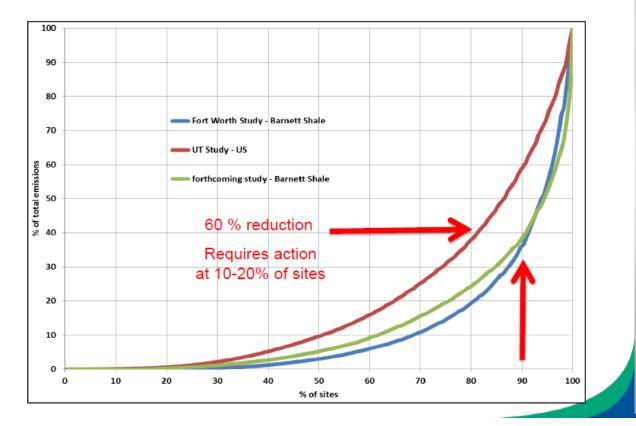




The World's <mark>Sixth Sense</mark>™

Find Big Leaks Fast

"Fat Tail" of well pad emissions



Hamburg, S. (2014). Anthropogenic Methane Emissions: Climatic Impacts and Natural Gas [PDF Document]. Retrieved from National Academy of Sciences Methane Emissions Conference October 23rd, 2014

th Sense



Safer Operations



Profitable

ROI

PetroTherm

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The Premier Infrared Conference for the Petrochemical and Oil & Gas Industry

IR Video #1 Chromatograph (Lab) Gas Analysis

Gas Components		MOL %	Gallons LPG per 1000 standard cubic feet that
Carbon Dioxide	CO2	0.1	can be condensed:
METHANE	CH4	32.9	
Ethane	C2H6	20.3	5.5
Propane	C3H8	24.9	7.0
Butane	C4H10	14.0	4.5
Pentane	C5H12	4.9	1.9
Hexanes	C6H14	1.5	0.6
Heptanes plus	C7H16 +	1.4	0.7
	Totals:	100.0 %	20.2 Gallons

Specific Gravity: 1.3 (Air = 1.0) Gross Heating Value: 2,159 BTU / SCF "This is \$12 gas"

(Note: Natural gas Spec. Gr. = 0.67 and heating value is 1030 BTU / SCF)

€FLIR" HI MANUAL WH

Video of Failed Rupture Disk

at

El Reno Booster

PetroTherm SEEING IS BELIEVING!

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IR Video #1 gas is

118,000 Scf / Day

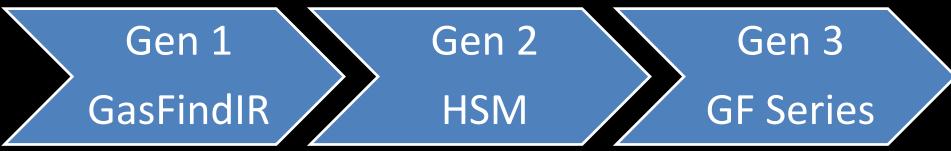
2159 BTU per standard cuft: "\$12 gas"

\$541,000 / year

Energy equivalent of **41.2** barrels of oil (BOE) per day



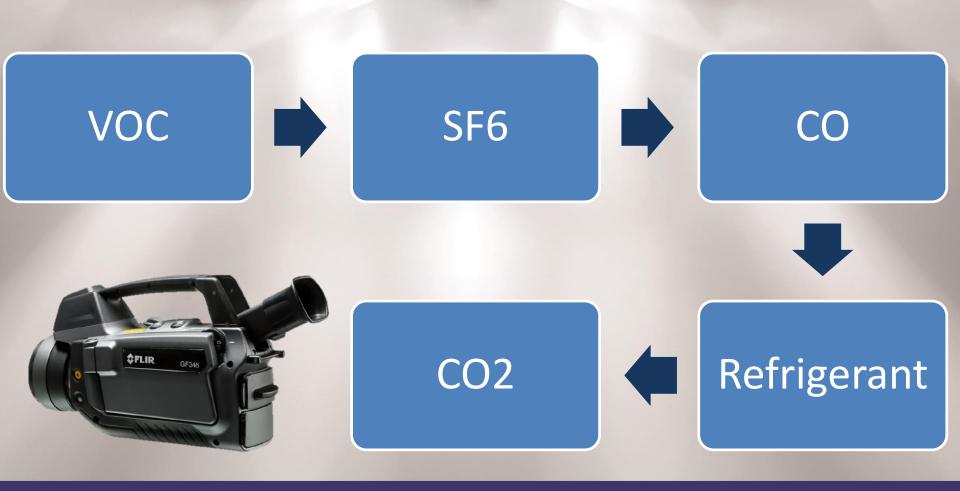
1.What you can use 2. Frequency of inspection 3. Time to Repair













The World's Sixth Sense*









Thank you.

