



TEXAS OIL & GAS ASSOCIATION | SINCE 1919

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Sound Science Matters

- Texas oil and natural gas companies are founded on science and science based solutions.
- Sound science leads to responsible energy production and activity – from the wellhead through the pipeline to the refinery
- Industry's passion for science has revolutionized shale development – and made the U.S. the world's #1 oil and natural gas producer

Sound Science Brings Us...

Economic Prosperity

- In 2015, Texas Oil & Gas industry paid \$13.8 Billion in State Taxes and Royalties.



Jobs

- Close to 400,000 Texans get a paycheck from the oil & gas industry



Products

- Clothing, Medicine, Boats, Shampoo, Fishing Rods, Diapers, Mobile Phones



Headlines Activists Don't Want You To See

THE DAILY CALLER
NEWS FOUNDATION

PA Health Data Report Shatters Claims Fracking Causes Asthma



Report Finds No Cancer Clusters In Flower Mound



Study: Methane In Colorado Water Isn't Always From Oil Wells

TimesReporter.com
Ohio

Study shows natural gas drilling not contaminating water wells in Carroll County

Real Science vs. Junk Science

- Task Force should be deliberate and discerning in review of existing research
- Misinformation masquerades as “science”
- Flawed methodology, manipulated data and pre-conceived conclusions are “tells” of junk science

Real Science vs. Junk Science

“Published Research” ≠ “Sound Science”



- Physicians, Scientists and Engineers for Healthy Energy (PSEHE)
 - Compendium of “research” funded by well-known anti-oil and natural gas activists and foundations
 - Scientists and experts have discredited studies claiming health impacts from oil and natural gas activity
 - Activists circulate debunked research relentlessly
- Difficult for everyday Texans to spot junk science

Credible Research Shows Fracking Protects Environment

- Stanford, Syracuse, Yale, University of Colorado all concluded fracking is not contaminating water.
- University of Texas – Arlington concluded air emissions near fracking sites in Eagle Ford are within safety limits.
- Environmental Defense Fund, University of Houston, Carnegie Mellon concluded that methane leakage from natural gas systems is extremely low.

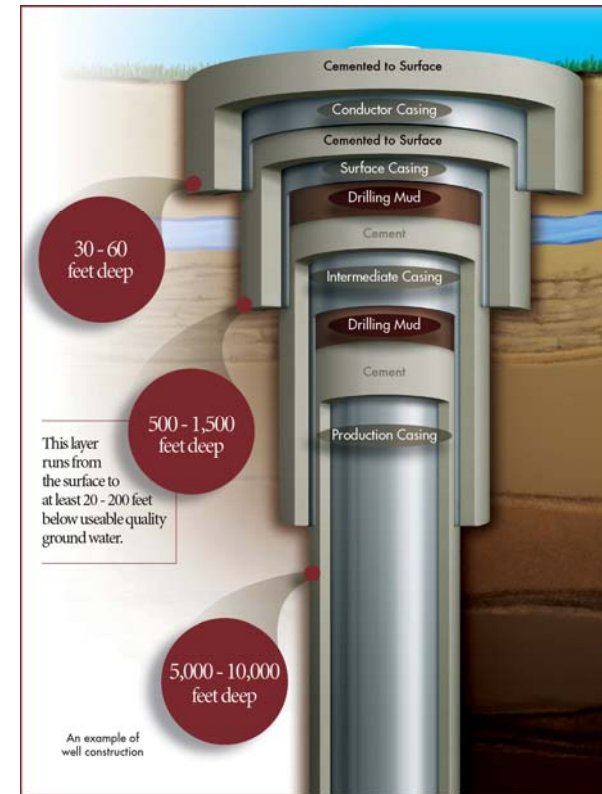
Facts: Impact of Shale Development

- Shale development – powered by horizontal drilling and fracking – has dramatically bolstered our nation's energy security.
- The U.S. is importing less oil than any time in the last 30 years.
- Net petroleum imports declined from 60 percent of total daily consumption in 2005 to 24 percent in 2015.
- Shale development unlocked massive reserves of natural gas that is being used to affordably and reliably heat and cool our homes.
- Thanks to fracking and expanded use of natural gas-fired power plants, CO2 levels are near 20-year lows.

Industry Innovation

Oil and natural gas companies constantly innovate to make production, transportation and refining more efficient and effective.

- Water Use/Reuse/Recycling
- Reduced geographic and environmental footprint
- NASA technology in oil and natural gas operations



Oil and natural gas companies lead cutting-edge research and share their learnings with academics, scientists, regulators.

All scientifically-valid research should be reviewed to direct further research in an attempt to answer these questions.

Texas Geology/Seismicity

- Do academics, scientists and industry agree that more Texas-specific research is necessary to better understand man-made seismicity?

Land Issues

- Are current oil and natural gas field practices reducing the geographic and environmental footprint of operations?

Water

- Does scientifically-valid research show that current oil and natural gas operations are protecting groundwater?

Air

- Does scientifically-valid research show that current oil and natural gas operations are protecting air quality?

Transportation

- Would additional pipeline infrastructure relieve transportation challenges (such as improving safety, reducing congestion and minimize road wear) associated with oil and natural gas activity?

Social/Economic Issues

- Where would Texas and our nation be, socially, economically and geo-politically, without shale development?



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