

MEXICO ENERGY REFORM: Permitting Challenges Ahead



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RELEVANT REGULATORY FRAMEWORK

- **LGEEPA** (environmental impact studies)
- **Social license?** (ILO Convention 169)
- **Environmental license** (emissions/discharges/waste)
- **Water use/rights** (from CONAGUA)
- **LFRA** (Federal Law on Environmental Liability)



ASEA: AGENCIA DE SEGURIDAD, ENERGÍA Y AMBIENTE



- **Autonomous entity under SEMARNAT**
- **Focus on oversight, regulation, and permitting of industrial safety and environmental protection in the hydrocarbon sector**
- **Sector activities include:**
 - **oil and gas E&P**
 - **transportation**
 - **refining**
 - **storage**
 - **retail**

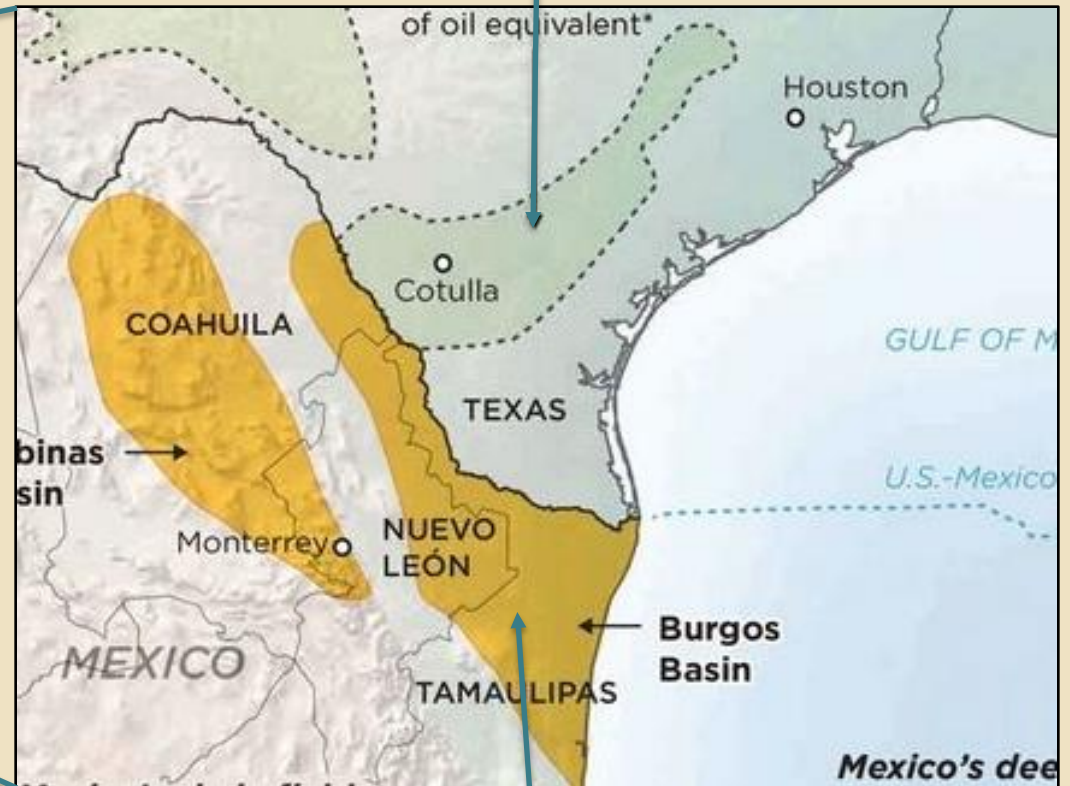
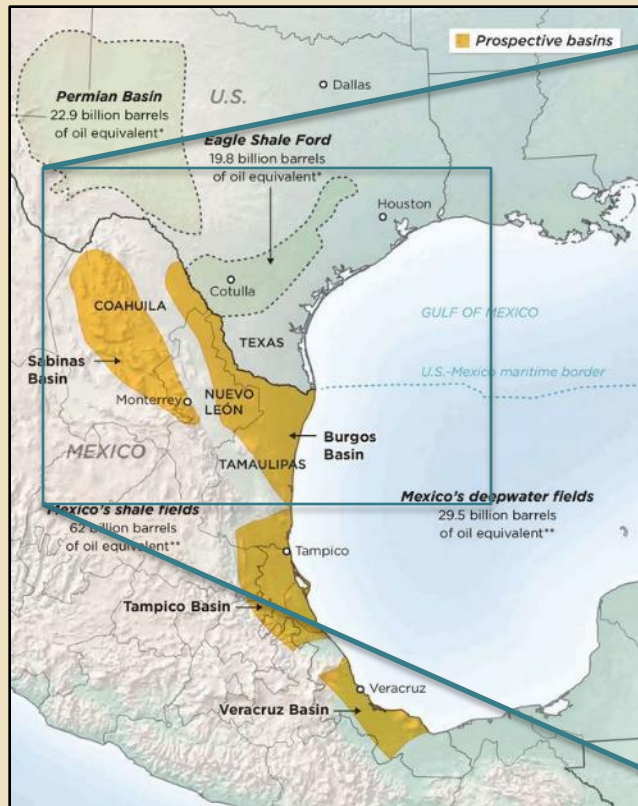
ASEA TODAY: WORK IN PROGRESS...



- Agency in a “state of flux”
- Budget has been cut 50%
- Functions mostly performed at former agency offices
- Unclear where documents should be submitted
- Working group developing new shale gas/hydraulic fracturing regulations has been put on hold

MEXICO ENERGY REFORM: UNCONVENTIONAL RESOURCES

Eagle Ford Shale



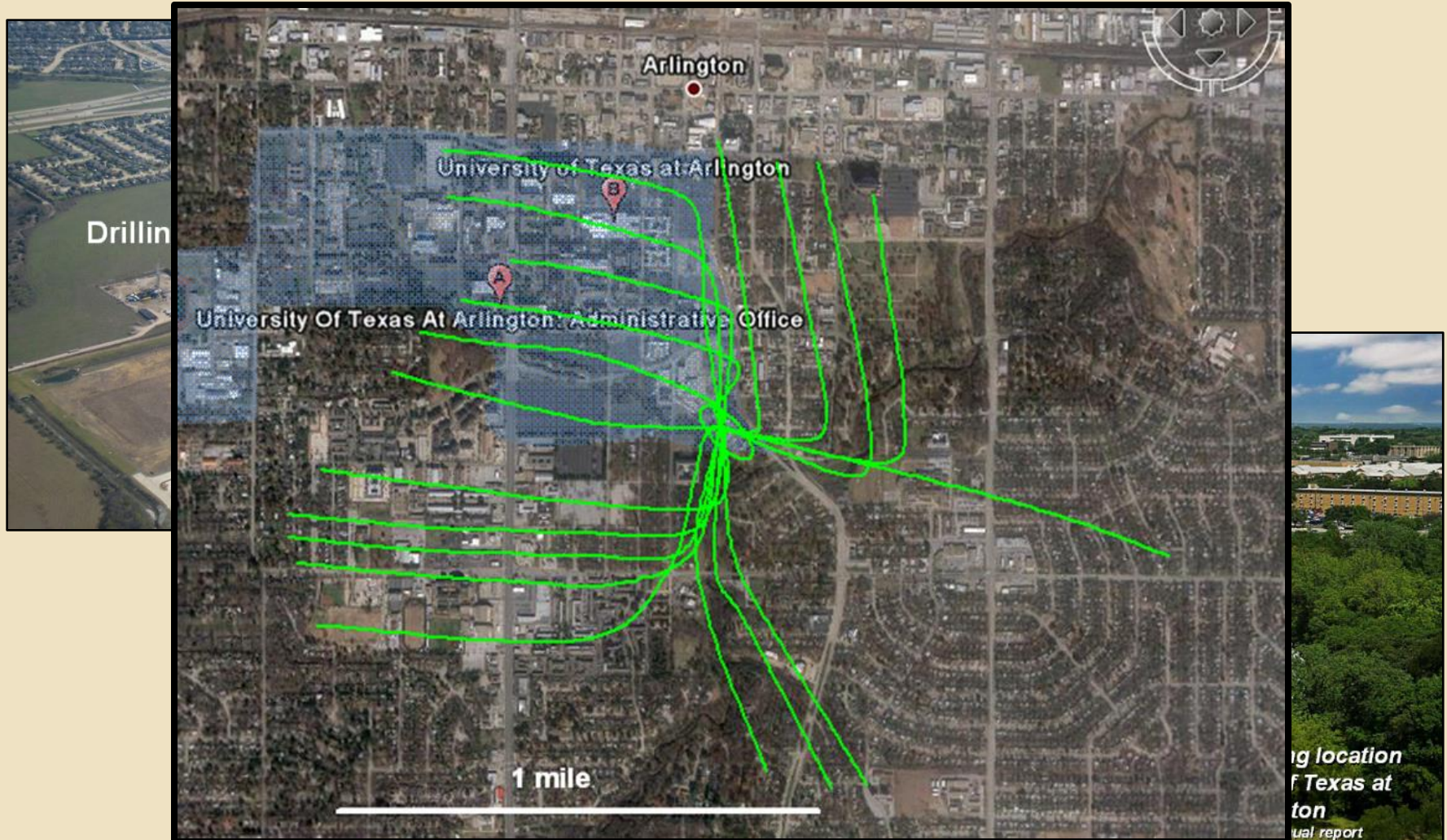
Burgos Basin

SHALE OIL/GAS: GETTING TO PRODUCTION...



Source: www.fracfocus.org

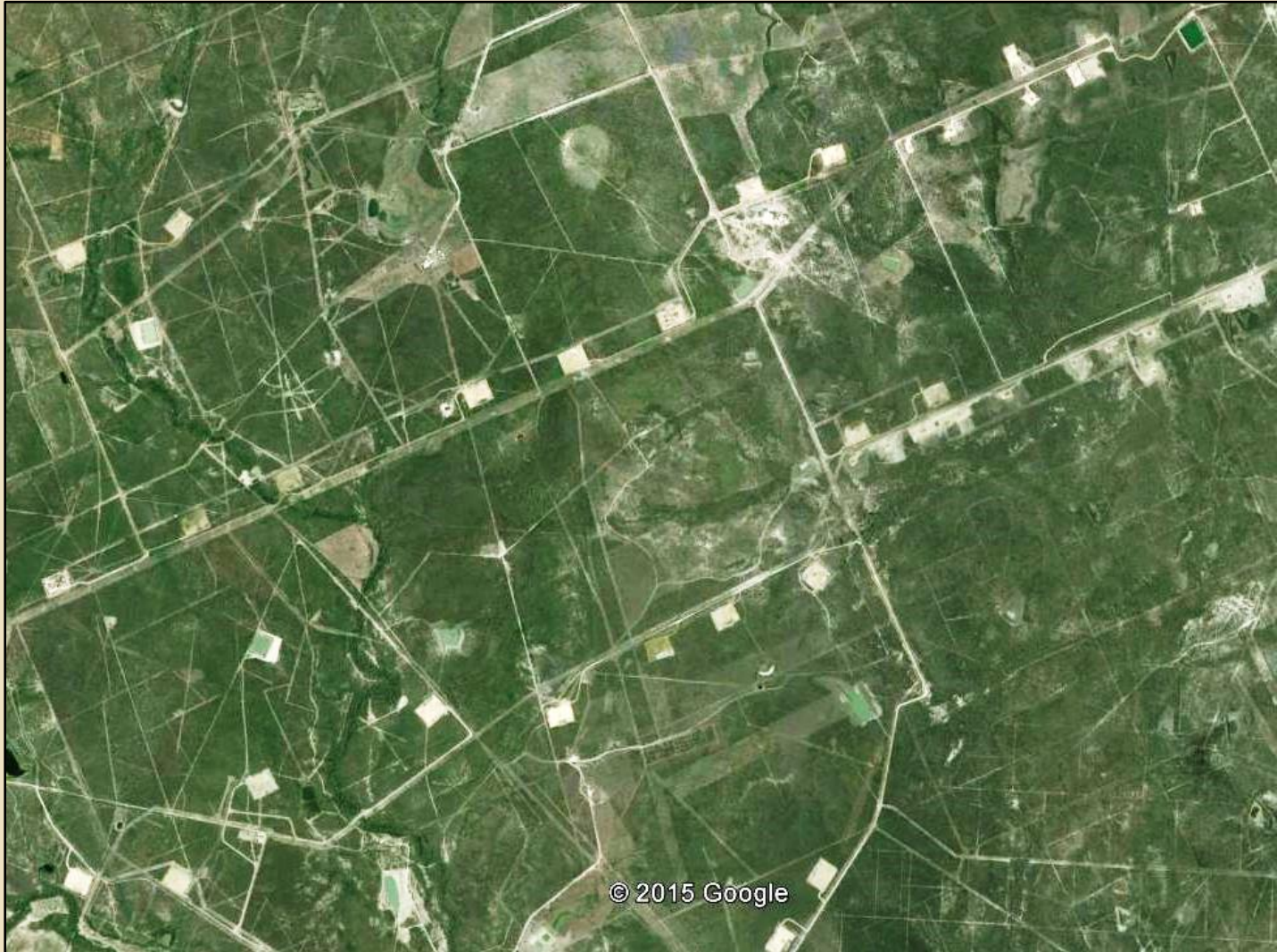
SHALE GAS E&P IN MORE DEVELOPED AREAS



SHALE GAS E&P IN WYOMING



SHALE OIL/GAS E&P IN TEXAS (EAGLE FORD)



ASEA: MANY QUESTIONS REMAIN...



- Specific hydraulic fracturing regulations?
- Community consultation/participation/approval?
- Rights-of-way?
- Landscape fragmentation?
- Water resources use?
- Transportation infrastructure?
- Timing of new regulations?

¡MUCHAS GRACIAS!

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