Chesapeake Tour

DHS → public data source of well location — what type of info?
Secretary Chu → report prepared for him

Forced pooling → some states ~~have~~ allow for takings when only some % of landowners in an area agree to takings
- (PA does not allow this)

Non perf zones → can do horizontal drilling there
an area where you don't have rights, but can't ~~R~~ perf (to collect gas)

Determine where to drill
- Seismic studies, mineral rights, ~~permits~~
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Basic treatable water / usable water ⇒ different states use different terms

~~vertical~~ vertical drilling
"fresh water + bentonite ⇒ drilling muds
(replaces air drilling, which was creating turbidity in local residential water wells)
use of the fresh water muds took care of this
⇒ this was a change that occurred about 8 months ago

- can't use for hydrogeologic

Synthetic muds used for horizontal drilling

in other areas uses oil based muds

- Choose type of muds based on the geology + stage of drilling
  - here water based used for vertical, but in other areas may use in horizontal drilling

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HF begins after drilling is done.

Chesapeake designs its own frac → other drilling companies may use service company like Halliburton.

But ~~HF~~ fracking is done by someone else.

< friction reducer, biocide, corrosion inhibitor

3 chemicals used here

Performance Technologies Limited (PTL)
- started about 7 yr ago ⇒ will eventually replace using outside contractors for fracking jobs.