RESERVOIR STUDIES IN SOUTH WASHINGTON

LEE FLOREA

WASHINGTON STATE DEPARTMENT OF **NATURAL RESOURCES** WASHINGTON GEOLOGICAL SURVEY

Where to Explore?



Olympic Peninsula: Nat'l Park, tribes, trap complexity, low success rate in SCO₂T

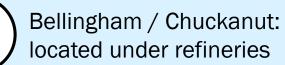


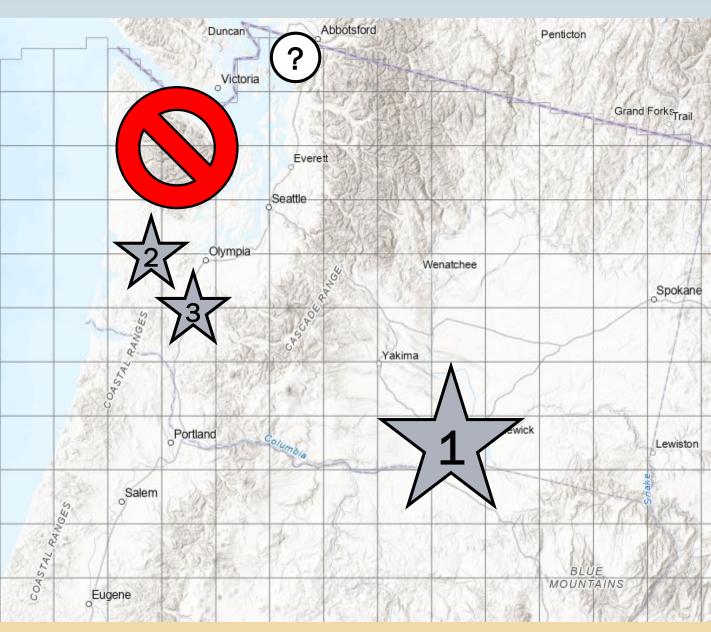
South-central Columbia Basin: high capacity, large plume radius, permanent mineralization



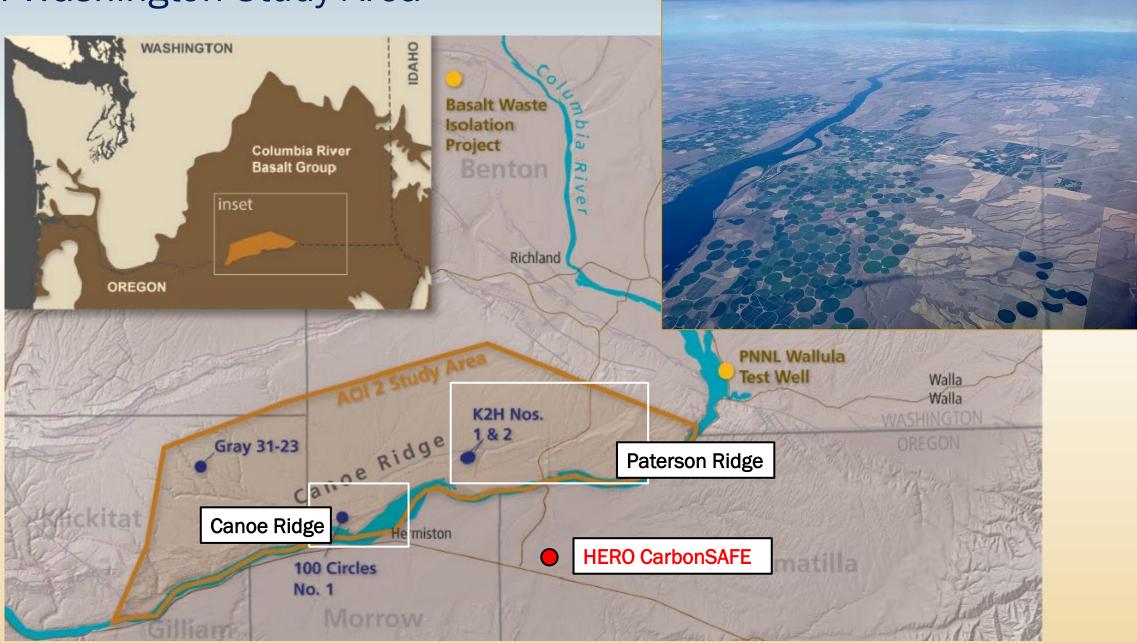
Grays Harbor / Willapa Hills: moderate capacity, moderate cost

Chehalis Basin: moderate capacity, moderate cost





South Washington Study Area



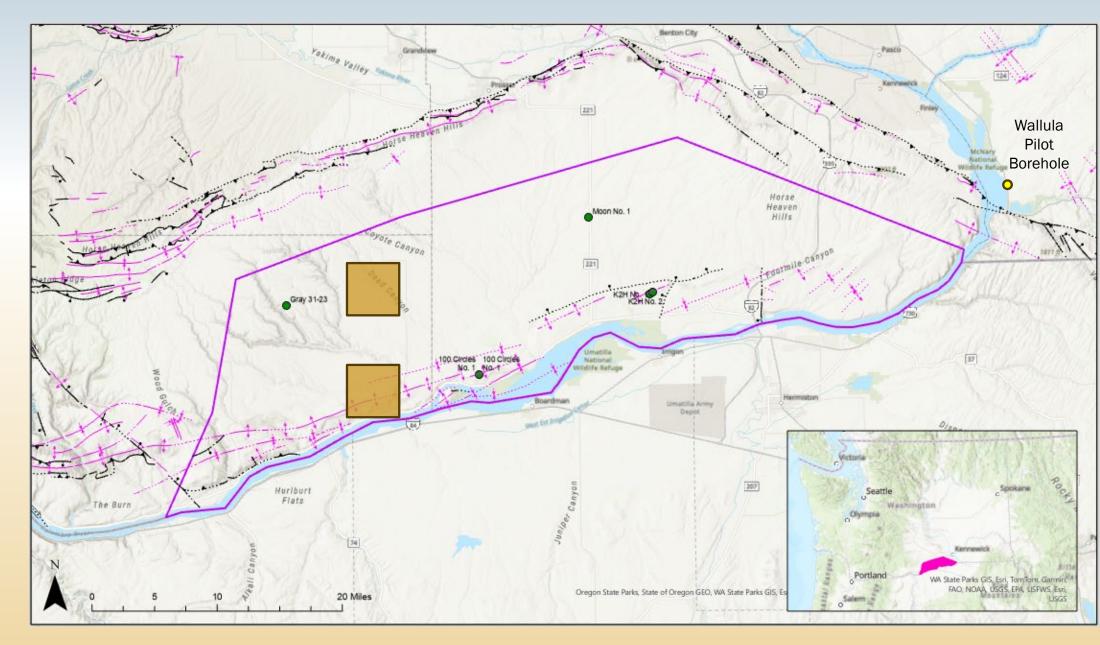
Columbia Hills Anticline axis

Wanapum Basalt

Rowena Gap

Overturned thrust

Selection criteria



Acquisition area

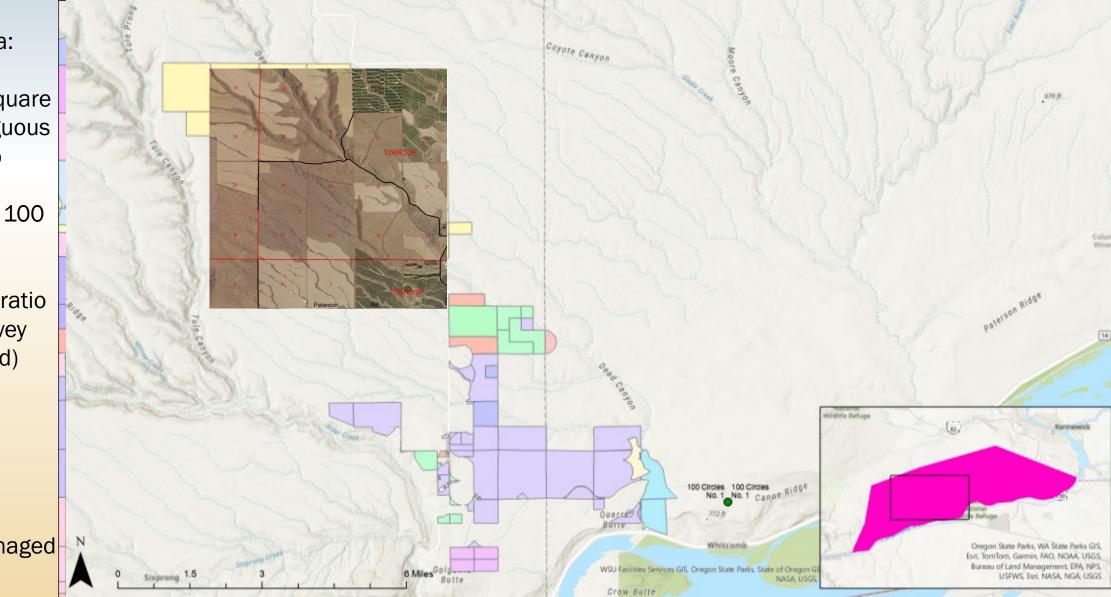
Contact criteria:

1) At least 8 square miles of contiguous landownership

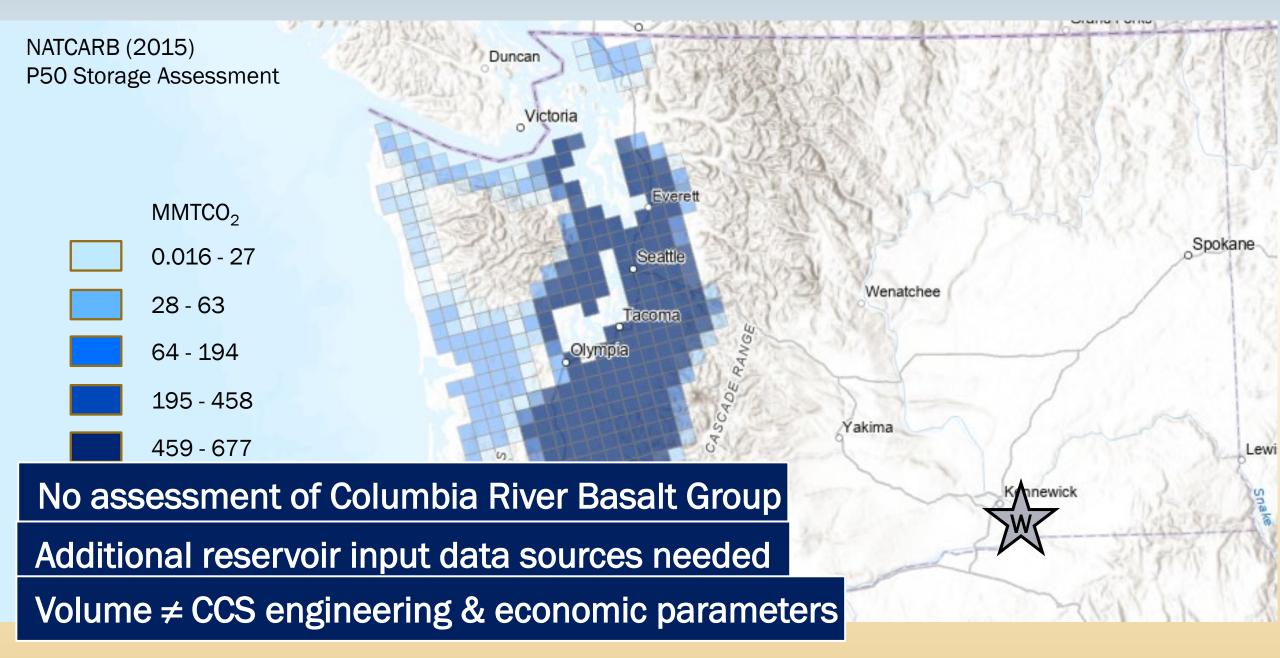
2) Proximity to 100 Circles well.

3) Low aspect ratio to seismic survey (square-shaped)

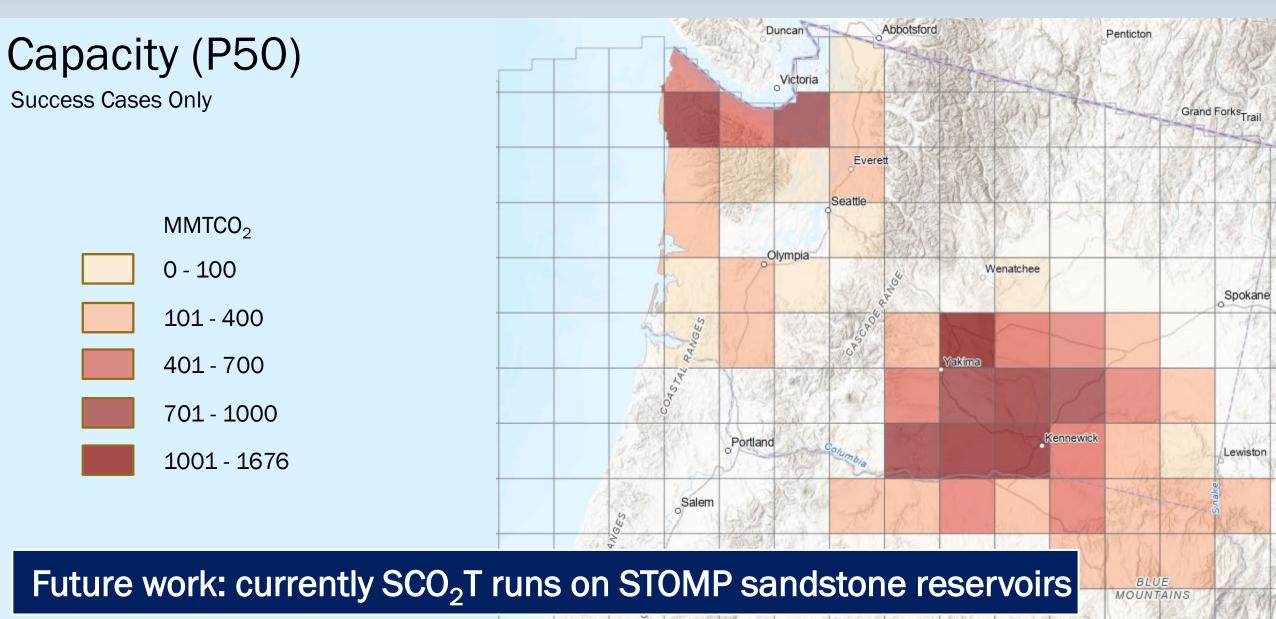
> DNR-managed land



Past Work



SCO₂T Output - Probabilistic



SCO₂T Output - Probabilistic



Success Cases Only

- Financing
- Drilling
- Injection -
- PISC (monitoring)

\$/MTCO₂

< \$7.77

\$7.78 - \$9.28

\$9.29 - \$10.41

\$10.42 - \$14.72

