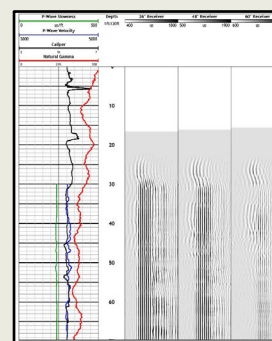
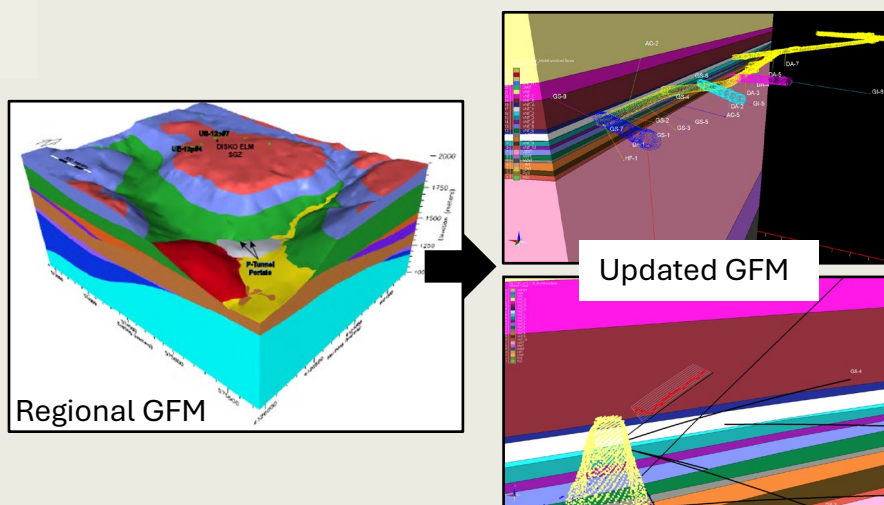


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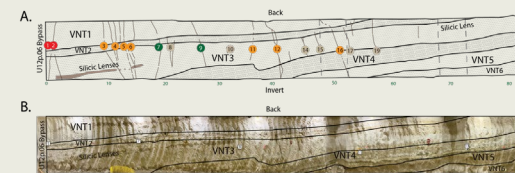
<sup>1</sup>Sandia National Labs, <sup>2</sup>Nevada National Security Sites

- PE1 is a series of multi-physics experiments that includes detonation of underground chemical explosions that provide key observations relevant to source discrimination models and algorithms
- We have synthesized new geologic data to update the existing regional Geologic Framework Model

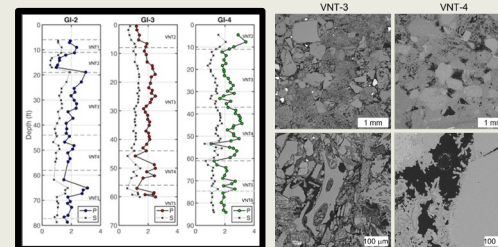


Geophysical Logs

### GFM Inputs



### Geologic Mapping



Material Properties at Grain- and Core-Scales

- The GFM directly feeds predictive models of seismic wave propagation, gas transport, and source mechanics and our updates ensure that interpretations of explosive tests are grounded in realistic representations of the subsurface