



Probabilistic AVO Inversion

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Unique Shell capabilities exist

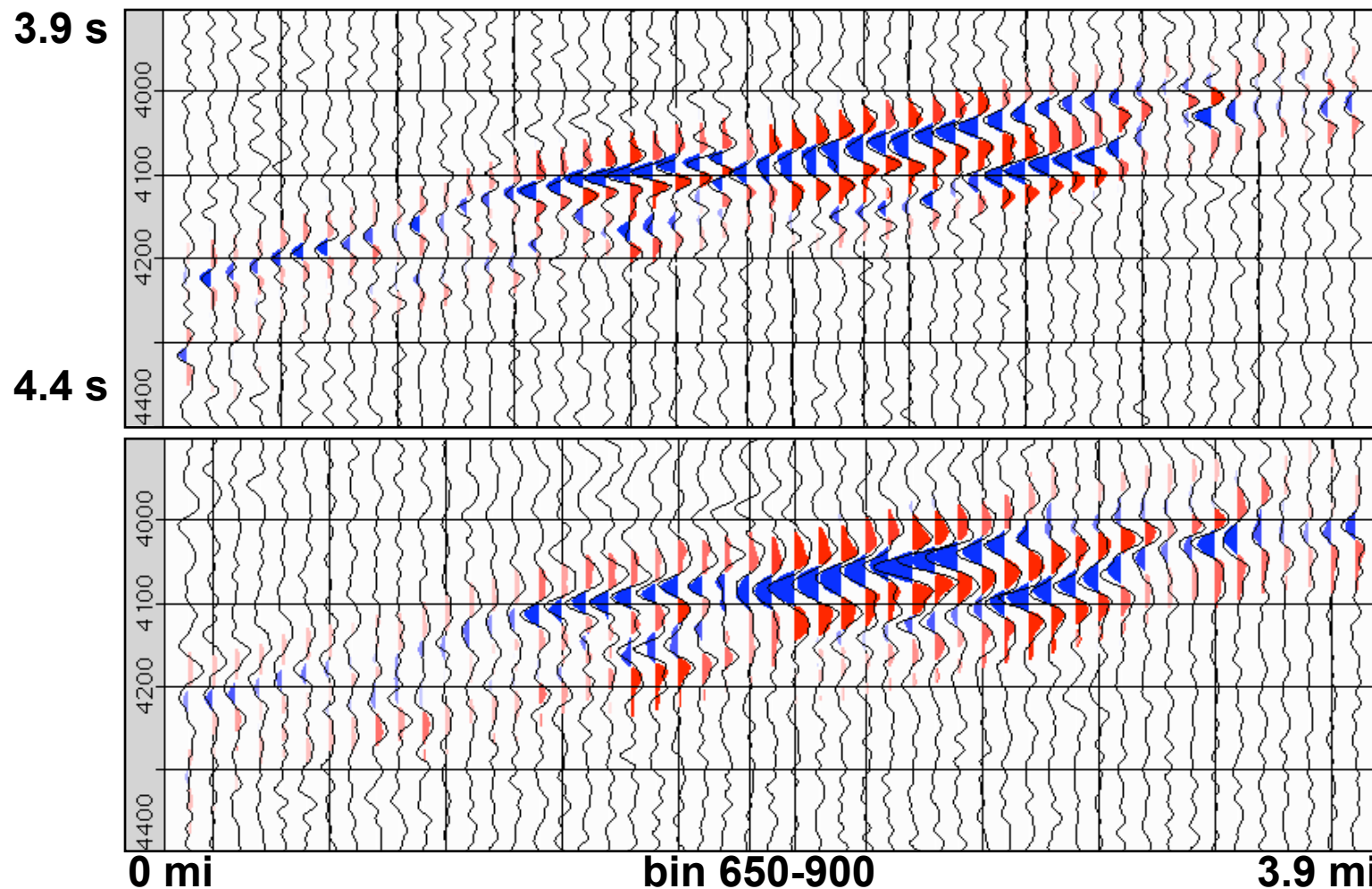


- **multiple stack AVO/4D inversion**
 - one model fits multiple stacks
- **estimates of parameters and uncertainties**
 - petrophysical uncertainties integrated with seismic
 - parameters that matter estimated
 - N/G
 - saturations
 - porosity
 - etc.
- **probabilistic inversion done on business relevant time scale**
 - DepSim model built, petrophysics analyzed, and PROMISE inversion done in 8 calendar days (FRAM, North Sea Forties)

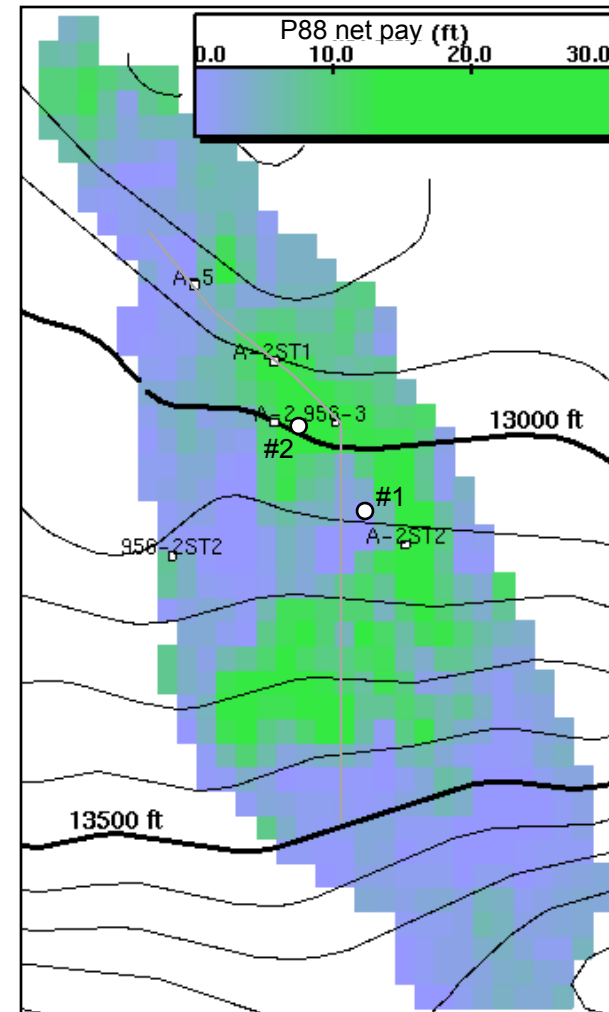
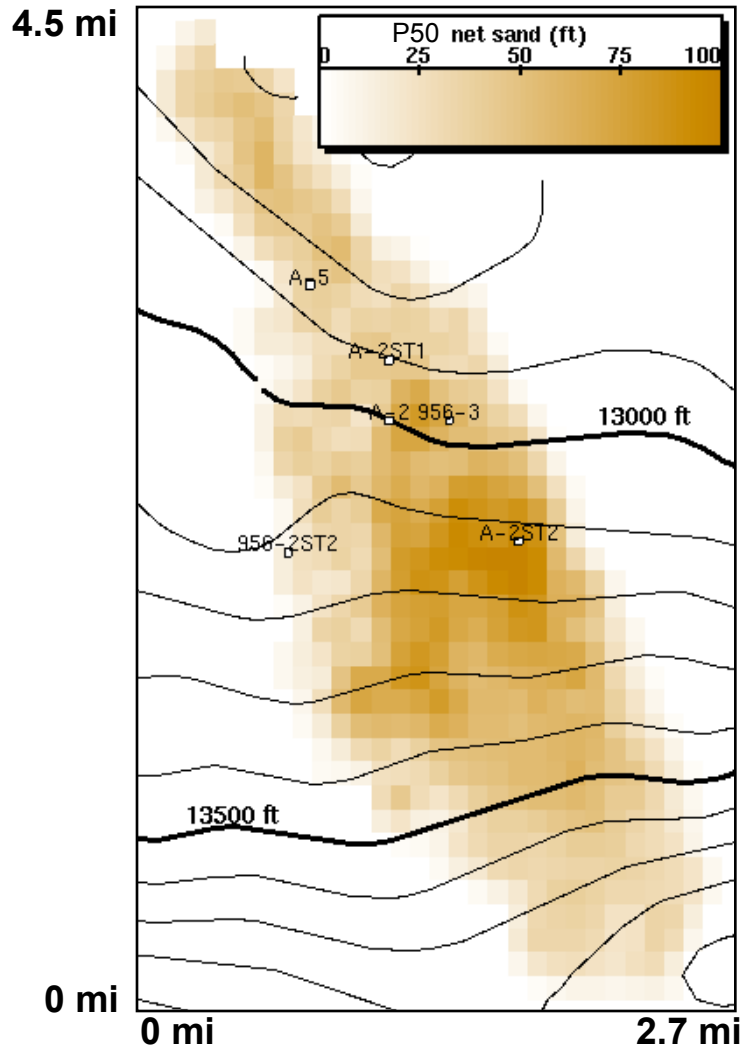
One model match multiple stacks (Ram/Powell)



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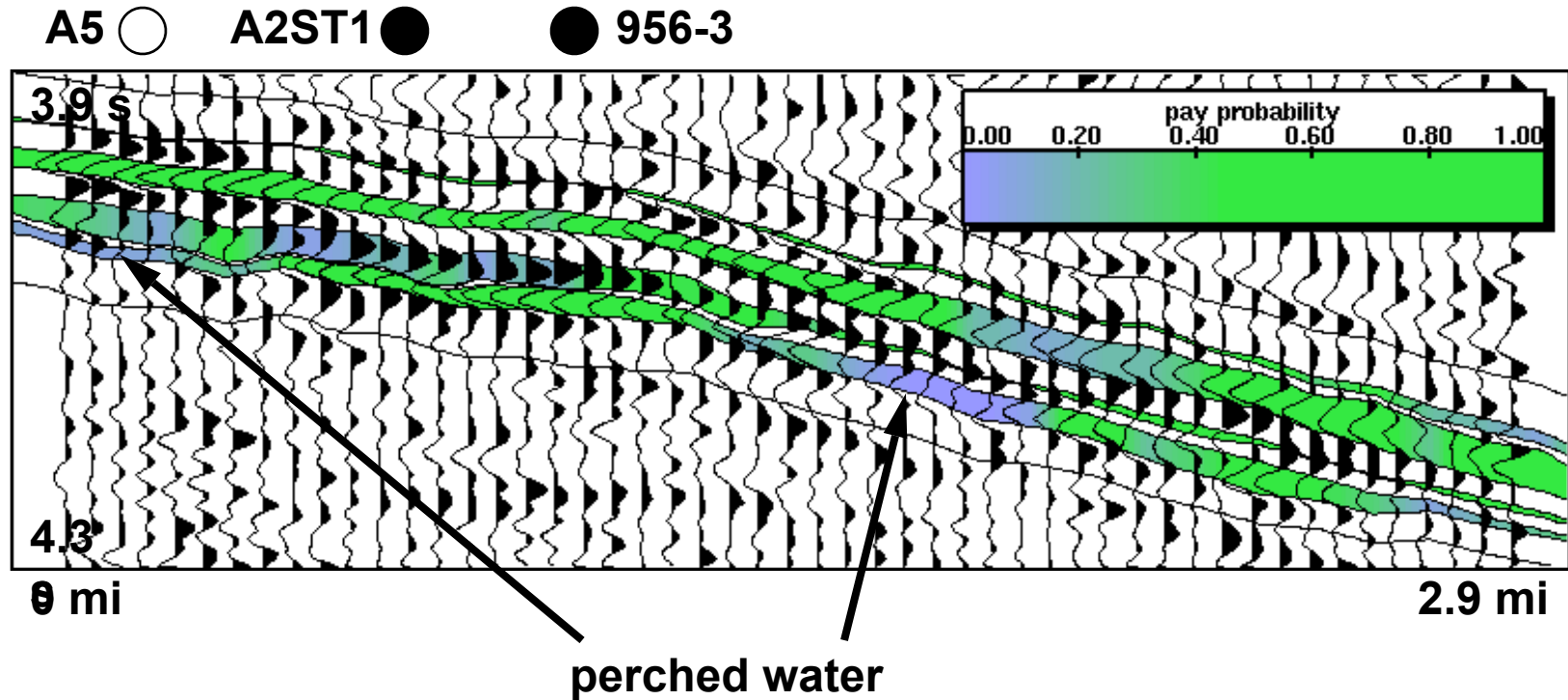


Inversion results of Ram/Powell N sand shows perched water levels



net pay = thickness * N/G * porosity * pay probability

Cross section showing perched water level in N-sand



note: runsum data

View of the inversion results in L-M space

