

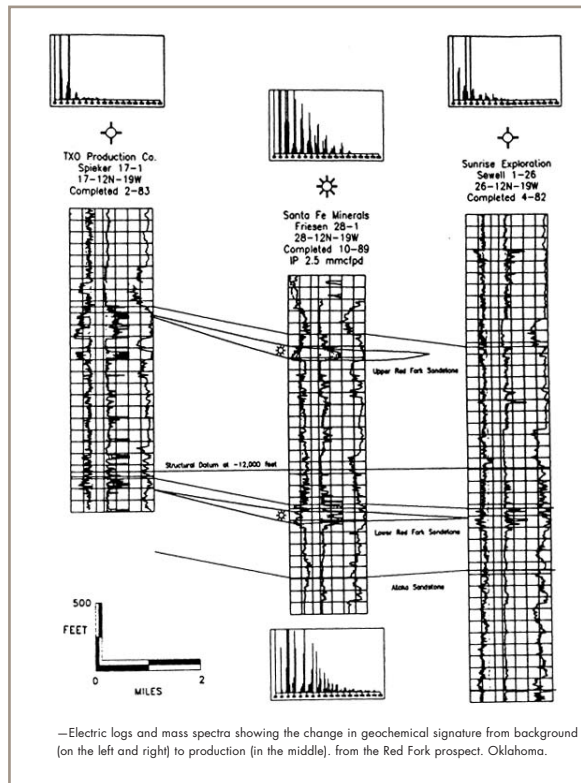


## Deep stratigraphic trap: Detecting gas reservoirs

### Custer/Roger Mills Counties, Oklahoma, USA

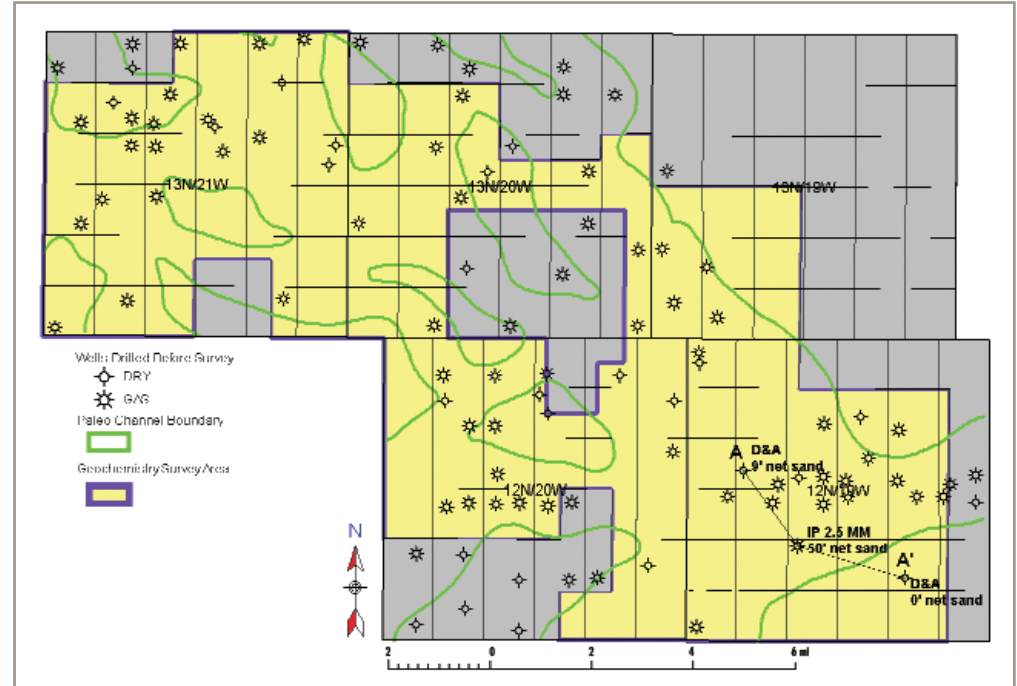


GORE™ Survey Area



—Electric logs and mass spectra showing the change in geochemical signature from background (on the left and right) to production (in the middle), from the Red Fork prospect, Oklahoma.

Structural Cross Section A-A'

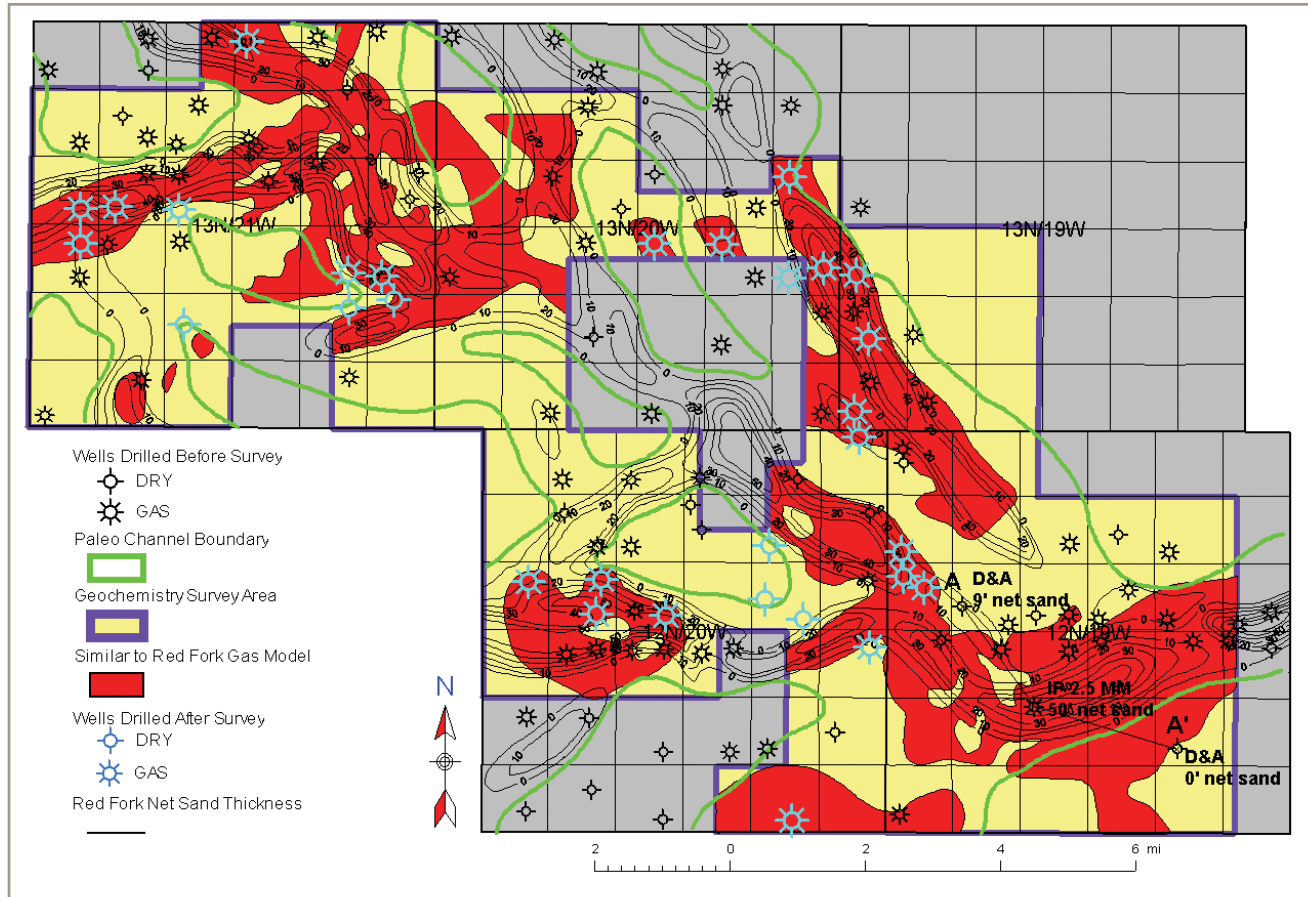


Map showing the GORE™ Survey grid area and the client's paleo channel interpretation

### Geology:

- Anadarko Basin
- Target: Pennsylvanian Red Fork gas – 15,000 ft
- Hydrocarbon accumulations are trapped stratigraphically in an extensive channel system present over much of the basin





GORE™ Survey results showing high probability areas for finding Red Fork gas (in red)

### Survey Summary

- Nine GORE™ Surveys over three years included over 2,500 samples
- Reconnaissance samples: 600-800 ft grid spacing
- Detailed survey samples: 200-400 ft grid spacing
- 120 mi<sup>2</sup> coverage

### Survey Results

- Thirty wells drilled in conjunction with the information provided by the GORE™ Survey
  - of the 22 wells drilled in areas identified by GORE™ Survey as geochemically similar to Red Fork gas: 21 produced commercial quantities of gas; one was dry
  - Of the eight wells drilled in areas identified by GORE™ Survey as having no hydrocarbons: five were P&A; three were gas (however, one failed to repay completion costs)
  - 87% success rate! GORE™ Survey is able to find charged areas of the sandstone channel
- Client's net sand thickness isopach based on wells drilled post-survey closely matches the GORE™ Survey result