



Haynesville Rock Properties

Qi Ren

Early career PhD student

Advisor: Mrinal Sen & Kyle Spikes



BACKGROUD

B.S. Applied Physics
 USTC, China

Up conversion material proportion

Jun.2010

Up-conversion material properties and application

- Graduate study Aug.2010-Dec.2011
 Physics Department, UT-Austin
- Ph.D student in Geophysics
 UT-Austin
- Engineering Intern ETC, Chevron

Jan.2012

Summer 2011



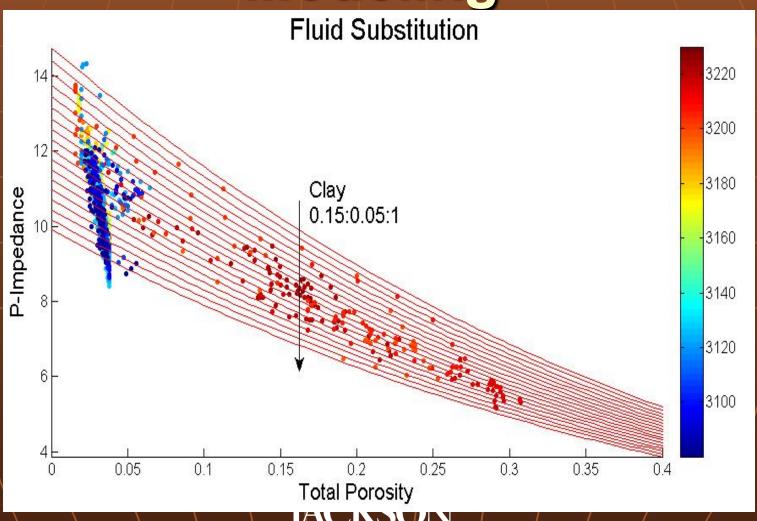
Previous Case Study

Rock Property Modeling
 o Ibhubesi Field, West South Africa
 o Target: Porosity- Impedance relation
 o Influence Factors: Vclay, Sw, Poro

Model & Method:
 o Raymer relation
 o Fluid Substitution



Ibhubesi Field Rock Property Modeling



Haynesville Rock Properties

- Louisiana, Texas
- One of the Largest natural gas field
- Depth 10,000-13,000 feet
 200-300 feet thick

- Location: Harrison
- Two well

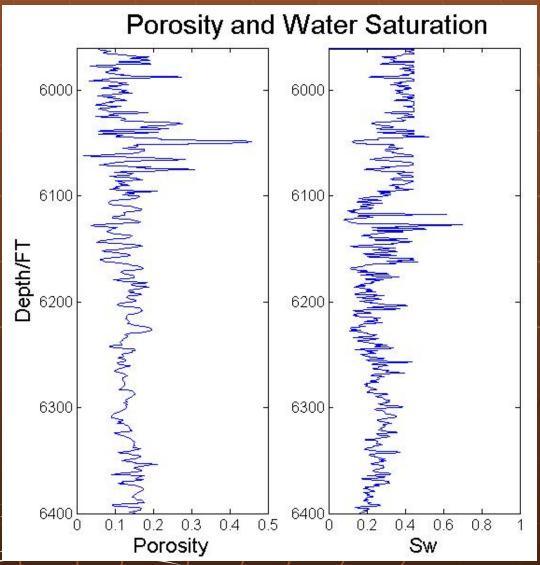
http://petesplace-peter.blogspot.com/ /2008_08_01_archive.html





Haynesville Rock Properties

- Aspect ratio
- Composition
- Fluid content



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