The Deep Pools Atlas
DPA
The Next Generation
Timeline and Goals

• Digital Petroleum Atlas
  – First Online Atlas of Oil and Gas Fields

• Generations
    • Static Web Pages
  – Generation 2 (Current Situation)
    • Dynamic Access to Raw Data
    • Limited Tools
      – Simple GIS Mapping and Production Plotting
  – Generation 3 (The next step)
    • Dynamic tools to provide flexible synthesis (Region, Play, Field, Reservoir or Horizon)
    – Dynamic Mapping, Log Analysis, Cross-section Construction, Core Examination
    • Integration of User Data.
    • Move into 3D world and multiple interacting windows
  – Generation 4 (Happening in NATCARB)
    • Distributed Internet Map Servers (IMS) and XML access
Map Viewer

- Interactive Front End
- Real-time Field Outlines
- Multiple Themes
- Zoom and Query

- Real-time Access
- Field Lines
- Wells
- Highlight Well Data

http://www.kgs.ku.edu/Gemini/jrv_test/DPACatalogA.html?sField=Arroyo&sKID=1000152060
Digital Petroleum Atlas – Next Generation

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- Real-time Mapping
- Multiple Horizons
- Structure & Isopach
- Type Log

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Digital Petroleum Atlas – Next Generation
Log & Core Viewer

- Interactive
- Adjust Scale
- Scroll Through Depth
- Real-time Access
- Well-logs
- Geologic Tops
- Core Images
- Perforations
- DST’s

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Core Images

- Interactive
  Click on Log or Scroll Down Through Core
  View Box Images or Close-ups

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Interactive Core Data

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http://www.kgs.ku.edu/Gemini/Tools/DPA/DPACatalogA.html?sField=Arroyo&sKID=1000152060
Interactive Field Data

DPA Catalog General Information
Arroyo Field

Discovery Well(s)

<table>
<thead>
<tr>
<th>Discovery Date/Lease &amp; Well Number</th>
<th>Well Location</th>
<th>Production Zone</th>
<th>Rotary Total Depth/Available Well Data</th>
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<tbody>
<tr>
<td>23 JUN 1992/ KENDRICK 23-1</td>
<td>30E NW NE NW 23-T29S-R41W</td>
<td>Mississippian System</td>
<td>5620</td>
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<tr>
<td>12 APR 1990/ PRO FARMS 27-1</td>
<td>20S NW NE SW 27-T29S-R41W</td>
<td>Lower Keany Member</td>
<td>5680</td>
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</table>

Field Size: 6240 acres
Total Wells: 52
Productive Oil Wells: 12
Productive Gas Wells: 25
Abandoned Wells: 14
Cumulative Oil: 1,327,149 bbls as of February 2004
Cumulative Gas: 52,515,340.0 cu ft as of February 2004

Producing Formation: Keyes Sandstone Bed

Depth Top: 5396 feet
Formation Lithology: Sandstone
Formation Geometry: Upward coarsening shoreface deposits
Trap Type: Combination, channel occur with subsequent anticline folding

Keyes Sandstone Bed Thickness

Maximum Thickness: 60 feet

http://www.kgs.ku.edu/Gemini/Tools/DPA/DPACatalogA.html?sField=Arroyo&sKID=1000152060
Online Status

DPA Fields Support Pages

Click on the county you wish to examine, or select from the list below. Counties colored in include oil and gas field data. Counties colored in have had no oil or gas production.

http://www.kgs.ku.edu/Gemini/Tools/DPA/support/Kansas.html

Digital Petroleum Atlas – Next Generation
Online Status

Digital Petroleum Atlas – Next Generation

http://www.kgs.ku.edu/Gemini/Tools/DPA/support/Kansas.html

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Discovery Wells</th>
<th>Production</th>
<th>Porosity</th>
<th>Permeability</th>
<th>Oil Chemistry</th>
<th>Gas Chemistry</th>
<th>Water Chemistry</th>
<th>Geological</th>
<th>Number of Wells</th>
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<td>Armory</td>
<td>Complete</td>
<td>Partial</td>
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<td>Parti</td>
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<tr>
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<tr>
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<tr>
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