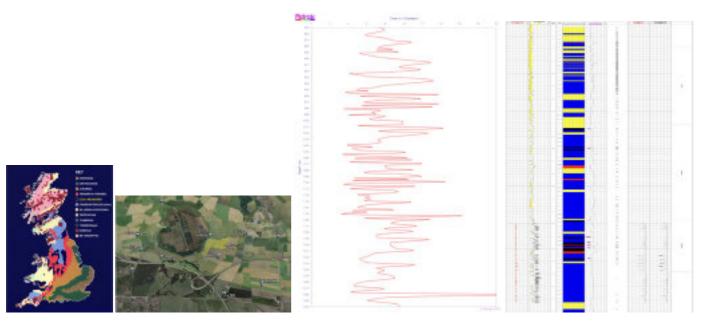


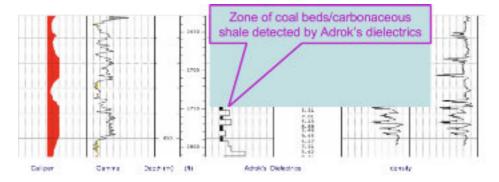
Case History:

Central Scotland, coal bed methane

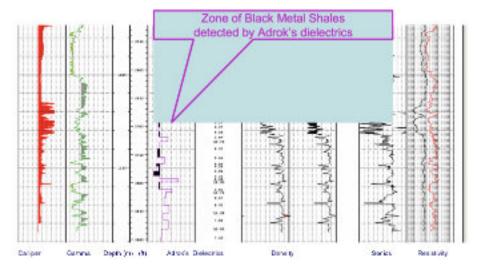
- Working with BG Group to develop a reliable coal bed methane exploration and appraisal survey tool based on Adrok's technology
- Survey Area located onshore United Kingdom
- Adrok trained on 4 drilled well locations (for coal signatures and for sedimentary rock & Igneous rock layer signatures)
- Surface terrain comprised low lying farmland. Survey sites on pads.
- Carboniferous marine sequences
- BG Group is interested in dielectrics as a new measurement to help their subsurface interpretations for tracking coal beds
- The results of the Adrok survey were compared to the actual drilling results (Adrok presented results before drilling commenced).
- · Adrok produced Virtual borehole log charts
- No HSE accidents



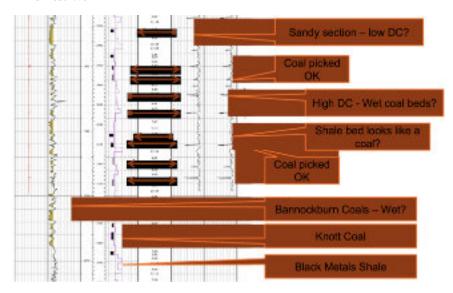
Blind Test - Limestone Coals



Calibration Well - Black Metal Shales



Blind Test Well



BG Group's Conclusions - Dielectric Prof les at Well-sites

- What is being measured?
 - Adrok Dielectric responses
 - Coal has low dielectric < 3
 - Water has high dielectric 80-81
 - Calcite has high dielectric 8
- Depth control
 - o seems good +/- 10 feet
- Coal beds
 - o prediction is possible but not reliable
 - high dielectric water f lled?
 - o low dielectric- tight? gassy?
- Sand beds
 - low dielectric sands with hydrocarbon?
 - o high dielectric- calcite cemented?
- Volcanics
 - High dielectric suggesting its presence at a particular depth
- Shale Gas beds
 - Low dielectric suggests there is organic material in the Black Metal Shales

Way Forward in Coal Bed Methane

- What benef t does the Adrok tool provide to coal bed methane exploration?
 - o Answer:
 - Track coal beds
 - Maps water content
 - Accurate depth control +/- 10feet matching to boreholes
- Next stage is to use ADR's spectral analysis to ascertain coal quality & improve reliability
 - o "good" coals versus wet coals

Contact