



Harvey Rock Physics performs high resolution borehole image interpretation and petrophysical evaluation. With combined expertise of over 50 years we offer unique interpretation services and understanding of the wireline log data acquired.

HRP has developed and engineered several unique programs that build on industry knowledge about the utilisation of electrical current flow in the rock to describe grain size, pore throat size and permeability.

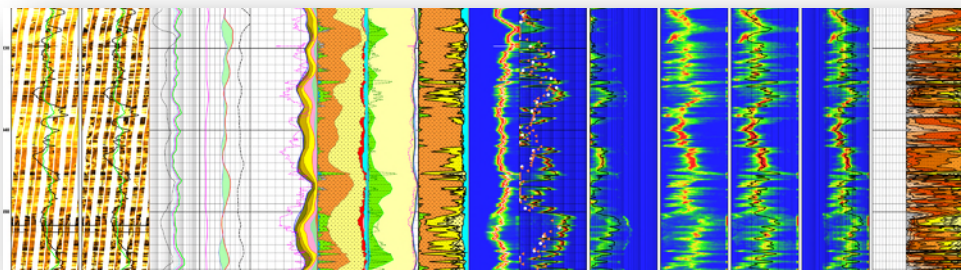
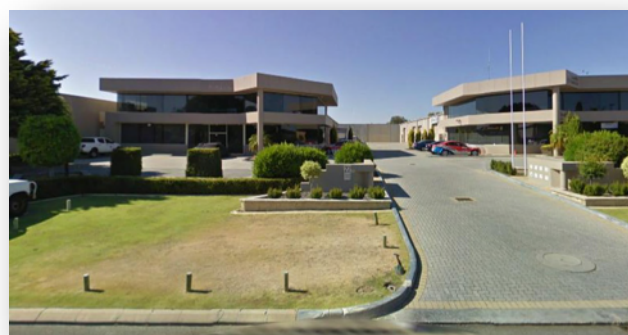
Services offered include:

- Petrophysical Evaluation
- Borehole image processing and interpretation
- Derivation of grain size pore throat and permeability

HRP has developed expertise in handling vintage 7 and 9 track borehole image data and has worked on several major projects converting this data to a useable format.

Other services include

- Vintage Data Extraction
- Specialist Processing



HRP has also developed solutions for unconventional resources including shale gas, coal bed methane (coals seam gas) as well as other unconventional reserves.

HRP is currently working for major international companies which include Woodside, Hess, BHP Billiton, Quadrant Energy and North American majors in Texas and California.

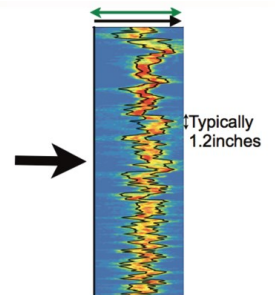
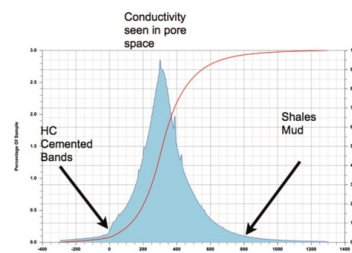
HRP utilises a collaborative approach with its clients which ensures projects are delivered within budget and on time.

Petrophysical Image Interpretation

Objective: Identify prospective intervals using Borehole Image Data (BHI) that describes the reservoir characteristics of the rock.

Method: Work with Borehole Image Data to produce a distribution of:

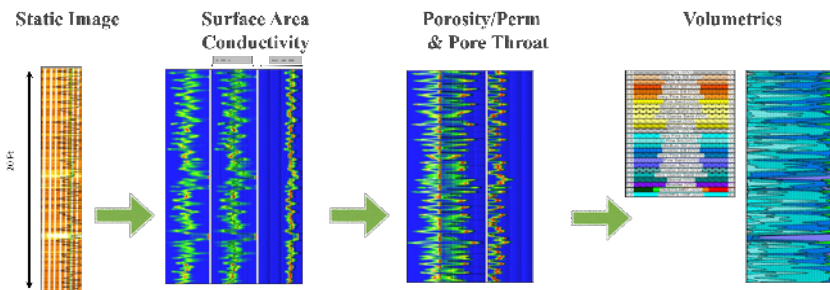
- Grainsize
- Porosity
- Pore Throat
- Permeability
- Surface Area Conductivity



- Central bounded area defines pore/grain space
- Areas outside examined as cemented and shales/mud effects

Normalised Textural Map

The Workflow:

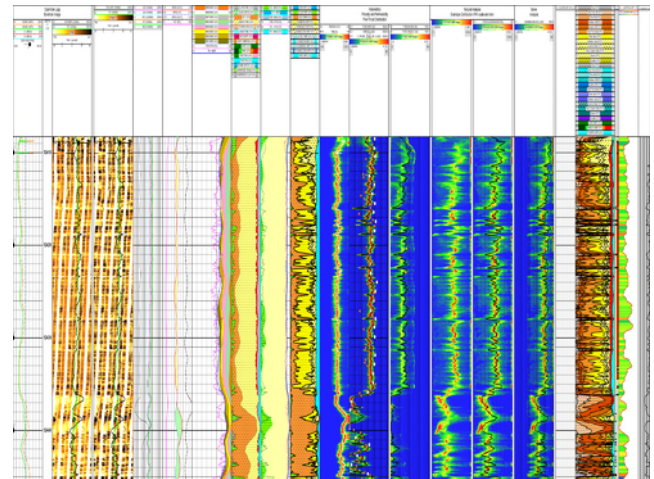


A comparison of the core median grain size and distribution shows agreement with the analysis

This indicates that the profile can be used to indicate grain size/surface area and pore throat size throughout the section.

Example illustration of an interpretation compared with:

- Conventional analysis
- NMR analysis
- Core grain size



The advantages of the technique pioneered by HRP are:

- Higher vertical resolution
- Applicable in wider range of hole conditions

Provides better insight into the finer scale bedding and lamination structure within the rock.