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The Digital Core Atlas for petroleum well Olympic 1 provides a detailed view of 319.53 m (1128.00 – 1447.53 m) of HQ-sized core (63 mm diameter) drilled by Buru Energy Limited on the Broome Platform, Canning Basin in June 2015. The Digital Core Atlas project is a collaboration between the Geological Survey of Western Australia (GSWA) and Buru Energy Limited and combines core photographs with the raw datasets in one fully integrated package. The GSWA portion of the study was funded by the State Government's Exploration Incentive Scheme (EIS).

This Digital Core Atlas is presented in an electronic flip-book design with interactive links that enable the user to view the results of multiple datasets in one convenient and user-friendly location. Each tray of core has two photos: a field photo with depths marked and a HyLogger photo with the core rotated 180° to show the other side. The photos are annotated with icons that link to the results of analyses conducted on core samples. Each page indicates the location of the core tray being displayed and contains a link to a detailed stratigraphic log for the interval containing that core tray.

A schematic stratigraphic log is located on each page to indicate the stratigraphic location for the core being displayed.

Datasets presented in the Olympic 1 Digital Core Atlas include:

1. Biostratigraphy
 - Conodonts
 - Graptolites
 - Micro-brachiopods
 - Miscellaneous macrofossils (MMF)
 - Palynomorphs
 - Trilobites
2. Geochronology
 - Chemical abrasion isotope dilution thermal ionization mass spectrometry (CA-IDTIMS)
3. Inorganic geochemistry
 - Inductively coupled plasma mass spectrometry (ICP-MS)
 - Multi-element geochemistry (MEG)
 - Stable isotopes
 - X-ray diffraction (XRD)
4. Organic geochemistry
 - Gas chromatography mass spectrometry (GC-MS)
 - Kerogen kinetics (KK)
 - Total organic carbon: Rock-Eval (TOC + RE)
5. Petrography
 - Argon-ion milled scanning electron microscopy (ArSEM)
 - Cathodoluminescence (CL)
 - Organic matter reflectance (OMR)
 - Scanning electron microscopy (SEM)
 - Thin sections (TS)
6. Petrophysics
 - Porosity and permeability
 - Tight rock analysis (TRA)

Olympic 1, Canning Basin — Digital Core Atlas Series

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