

EcoScope Service
1:240 Measured Depth
Recorded Mode Data



Company: IODP
Well: U1518A
Field: HSM-15A
Rig Name: Joides Resolution
Expedition: 372
Country: New Zealand

Latitude: 38° 51' 32.202" S **UWID:**
Longitude: 178° 53' 45.618" E **Rig Name:** Joides Resolution
Block: EXP372 **Rig Type:** Drill Ship
FL1:
FL2:



| | | |
|---------------------------|----------------------------|-------------------------|
| Acquisition Dates: | 19-Dec-2017 -- 20-Dec-2017 | Other Services: |
| Log Interval: | 2645.00(m) -- 2766.00(m) | SonicScope |
| Index Types: | Measured Depth | proVISION Plus |
| Index Scales: | 1:240 | geoVISION Images |
| Depth Source: | Driller's Depth | StethoScope |
| Depth Sensor: | DES | |
| Print Type: | Final | |
| Spud Date: | 19-Dec-2017 | |

Disclaimer

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Run 1

FINAL NEO LOG 1

Software Version

| Acquisition System | | Version |
|----------------------------|---|--------------------------------|
| Maxwell 2017 SP3 | | 7.3.92069.3100 |
| Computation | Description | Version |
| ECO6ResistivityComputation | Resistivity QC Processing, ECO 6.75 | 7.3.92069.3100 |
| ARCResistivity | ARC Resistivity Computation Package for ARC Tool Family | 7.3.92069.3100 |
| ECO6NeutronDensity | Neutron-Density Processing, ECO 6.75 | 7.3.92069.3100 |
| ECO6GammaRay | Natural Gamma Ray Processing, ECO 6.75 | 7.3.92069.3100 |
| ECO6UltrasonicComputation | Ultrasonic Processing, ECO6 6.75 | 7.3.92069.3100 |
| ECO6Neutron | Neutron Processing, ECO 6.75 | 7.3.92069.3100 |
| SoftwareVersion_Tool | SoftwareVersion_System Version | SoftwareVersion_Loaded Version |

| | | | |
|----------------------|-------------------------------------|-------------------------|-------------------------|
| HSPM | 20.3c.062 | 7.3.92069.3100 | |
| Tool Elements | Description | Software Version | Firmware Version |
| DRILLING_SURFACE | DRILLING_SURFACE | 7.3.92069.3100 | |
| DVME | NeoScope 6.75 - Electronics Chassis | 7.3.92069.3100 | V5.300 |

Pass Summary

| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | Include Parallel Data |
|----------|----------------|-----------|-----------|-----------|---------------------------|----------------------------|-----------------------|
| Run 1 | Drilling | Down | 2643.78 m | 2765.96 m | 19-Dec-2017 7:05:13 AM | 20-Dec-2017 10:43:06 PM | Yes |

All depths are referenced to toolstring zero

Log

Company: IODP Well: U1518A
Run 1: Drilling: S008

Description: NeoScope Triple Combo Service Depth Without QC Format: Log (FINAL ECO LOG 1) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth Creation Date: 29-Dec-2017 22:43:49

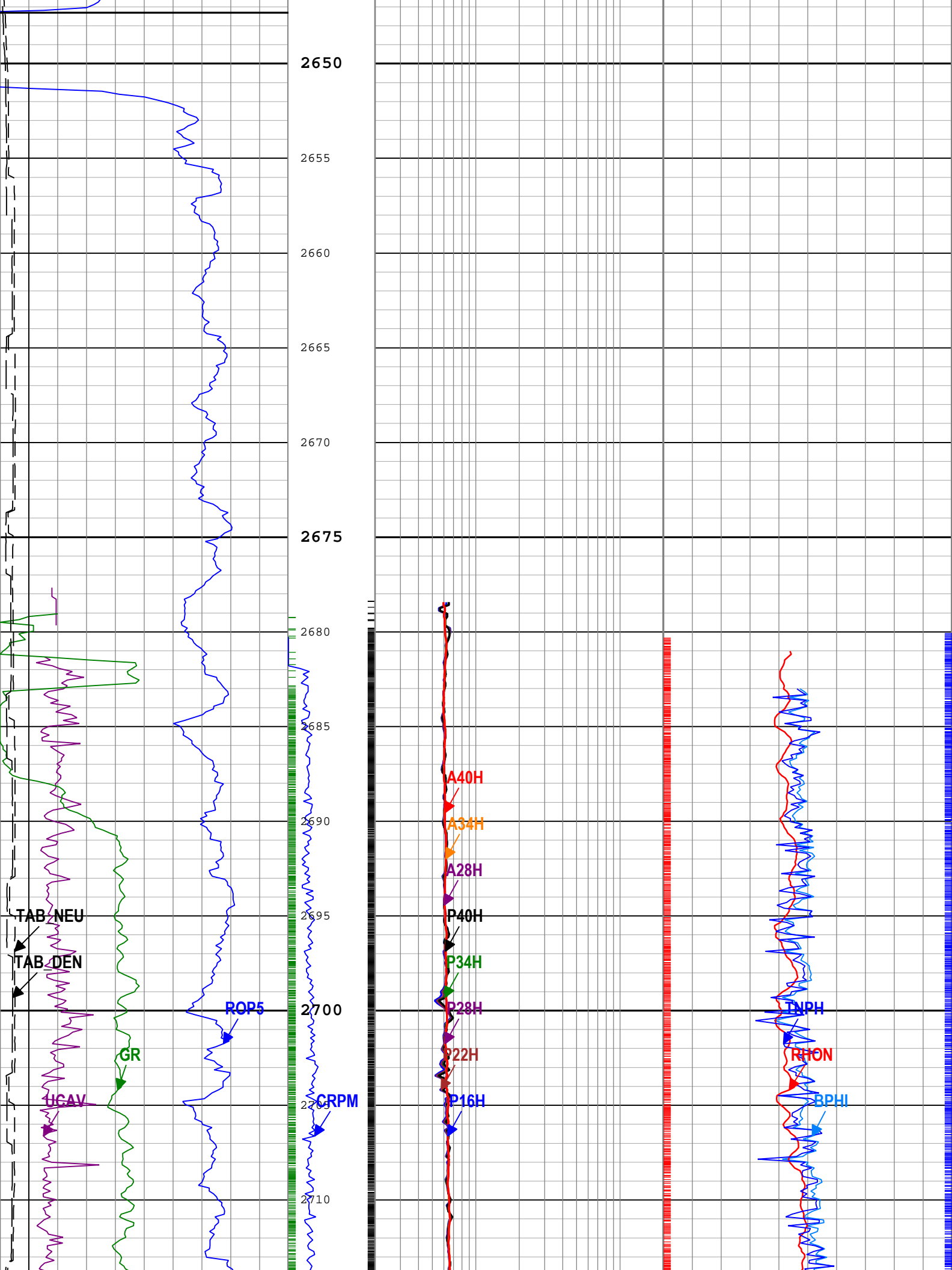
TICK_GR - Gamma Ray Samples DV6MTN RM

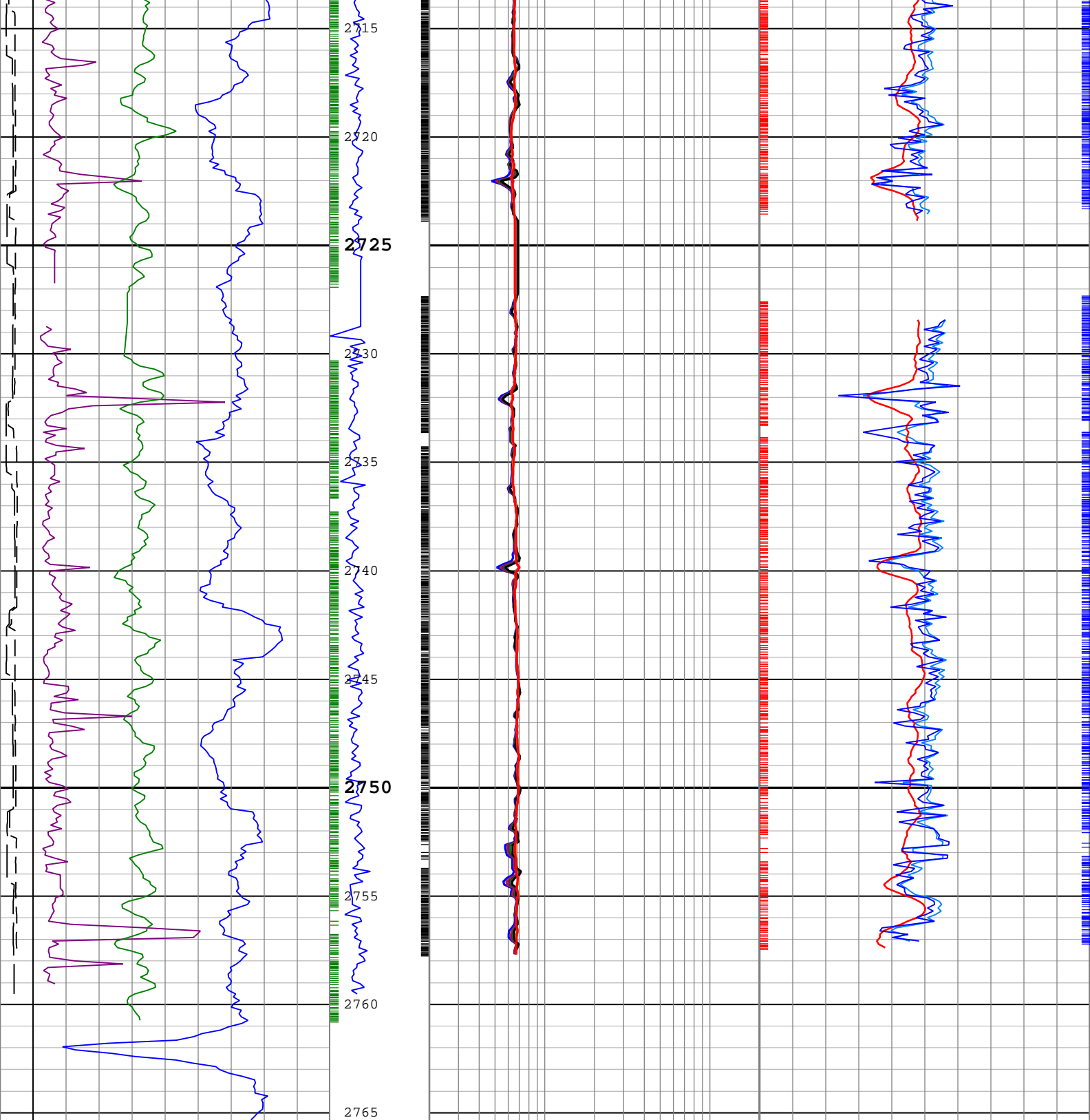
TICK_NEU - Neutron Ticks, 0.1 ft DV6MTN RM

TICK_RHON - RHON Tick Marks DV6MTN RM

TICK_ARC_RES - ARC Resistivity Samples DV6MTN RM

| | | | | |
|---|-----|------|-------|--|
| Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H) DV6MTN RM | | 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) DV6MTN RM | | 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) DV6MTN RM | | 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) DV6MTN RM | | 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) DV6MTN RM | | 0.2 | ohm.m | 2000 |
| Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) DV6MTN RM | | 0.2 | ohm.m | 2000 |
| Attenuation Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected (A34H) DV6MTN RM | | 0.2 | ohm.m | 2000 |
| Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (A40H) DV6MTN RM | | 0.2 | ohm.m | 2000 |
| Ultrasonic Caliper Average (UCAV) DV6MTN RM | 8 | in | 13 | |
| Gamma Ray (GR) DV6MTN RM | 0 | gAPI | 150 | |
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT | 100 | m/h | 0 | |
| Bit Size (BS) | 8 | in | 13 | |
| Density Time After Bit (TAB_DEN) DV6MTN RM | 0 | h | 10 | Collar Rotational Speed (CRPM) DV6MTN RM |
| Neutron Time After Bit (TAB_NEU) DV6MTN RM | 0 | h | 10 | 0 c/min 200 |
| Best Thermal Neutron Porosity, Average (BPHI) DV6MTN RM | | 1 | V/V | 0 |
| Bulk Density from Neutron, Average Filtered (RHON) DV6MTN RM | | 1 | g/cm3 | 3 |
| Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) DV6MTN RM | | 1 | V/V | 0 |





| | | |
|---|-----|-----|
| Ultrasonic Caliper Average (UCAV) DV6MTN RM | 8 | 13 |
| in | | |
| Gamma Ray (GR) DV6MTN RM | 0 | 150 |
| gAPI | | |
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT | 100 | 0 |
| m/h | | |
| Bit Size (BS) | 8 | 13 |
| in | | |

| | | |
|--|---|-----|
| Collar Rotational Speed (CRPM) DV6MTN RM | 0 | 200 |
| c/min | | |

| | | |
|---|-----|------|
| Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H) DV6MTN RM | 0.2 | 2000 |
| ohm.m | | |
| Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) DV6MTN RM | 0.2 | 2000 |
| ohm.m | | |
| Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) DV6MTN RM | 0.2 | 2000 |
| ohm.m | | |

| | | |
|--|---|---|
| Best Thermal Neutron Porosity, Average (BPHI) DV6MTN RM | 1 | 0 |
| V/V | | |
| Bulk Density from Neutron, Average Filtered (RHON) DV6MTN RM | 1 | 3 |
| g/cm3 | | |
| Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) DV6MTN RM | 1 | 0 |
| V/V | | |

| | | |
|---|---|----|
| Density Time After Bit (TAB_DEN) DV6MTN | h | 10 |
| Neutron Time After Bit (TAB_NEU) DV6MTN | h | 10 |

| | | |
|--|-------|------|
| 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) DV6MTN RM | | |
| 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) DV6MTN RM | | |
| 0.2 | ohm.m | 2000 |
| Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) DV6MTN RM | | |
| 0.2 | ohm.m | 2000 |
| Attenuation Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected (A34H) DV6MTN RM | | |
| 0.2 | ohm.m | 2000 |
| Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (A40H) DV6MTN RM | | |
| 0.2 | ohm.m | 2000 |

-TICK_ARC_RES - ARC Resistivity Samples DV6MTN RM

TICK_RHON - RHON Tick Marks DV6MTN RM

TICK_NEU - Neutron Ticks, 0.1 ft DV6MTN RM

TICK_GR - Gamma Ray Samples DV6MTN RM

Description: NeoScope Triple Combo Service Depth Without QC Format: Log (FINAL ECO LOG 1) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth Creation Date: 29-Dec-2017 22:43:49

Channel Processing Parameters

Run 1: Parameters

| Parameter | Description | Tool | Value | Unit |
|--------------|--|------------|-----------------|---------|
| ABNT | Abnormal Transmitter Indicator | DV6MTN | NO_TX_FAILED | |
| BH_OPT | Borehole Effect Computation Option | DV6MTN | No | |
| BHK | Drilling Fluid Potassium Concentration | Borehole | 0 | % |
| BHT | Bottom Hole Temperature | Borehole | 5 | degC |
| BS | Bit Size | DNMSESSION | 8.5 | in |
| BSAL | Borehole Salinity | Borehole | 35000 | ppm |
| CALI_SEL_GR | Hole-Size Correction Source for Gamma-Ray Processing | DV6MTN | GCSE | |
| CALI_SEL_NEU | Hole-Size Correction Source for Neutron Processing | DV6MTN | GCSE | |
| CALI_SEL_NGD | Hole-Size Correction Source for Neutron Gamma Density Processing | DV6MTN | Ultrasonic | |
| CHI | Caliper High Limit from BS (RM) | DV6MTN | 10 | in |
| CLO | Caliper Low Limit from BS (RM) | DV6MTN | -5 | in |
| DEPTH_SEL | Depth Selection Parameter | DNMSESSION | Driller's Depth | |
| DFD | Drilling Fluid Density | Borehole | 8.6 | lbm/gal |
| DFT_CATEGORY | Drilling Fluid Type | Borehole | Water | |
| DTMD | Borehole Fluid Slowness | Borehole | 180 | us/ft |
| DTMD_DH | Delta-T for Mud Downhole | DV6MTN | 180 | us/ft |
| ERRCT | Percentage Error Cutoff | DV6MTN | 4.5 | % |
| FSAL | Formation Salinity | Borehole | 6126.75 | ppm |
| GCSE_RM | Generalized Caliper Selection for DnM recorded mode | Borehole | BS | |

| | | | | |
|---------------|--|----------|-----------|-------|
| GR_O2COR_OPT | Enable Gamma Ray Oxygen Activation Correction | DV6MTN | Yes | |
| GRSE_RM | Generalized Mud Resistivity Selection for Recorded Mode | Borehole | REMS(RM) | |
| GRSH | Gamma Ray Shale | DV6MTN | 1000 | gAPI |
| GTSE_RM | Generalized Temperature Selection for Recorded Mode | Borehole | DHAT(RM) | |
| HIGH_BLEND | High Resistivity Threshold for Blending | DV6MTN | 2 | ohm.m |
| INVAS_OPT | Invasion Computation Option | DV6MTN | No | |
| LOW_BLEND | Low Resistivity Threshold for Blending | DV6MTN | 1 | ohm.m |
| MATR | Rock Matrix for Neutron Porosity Corrections | Borehole | LIMESTONE | |
| MST | Mud Sample Temperature | Borehole | 23.89 | degC |
| MSWS | ARCWizard Model Switch Window Size | DV6MTN | 60 | in |
| MULTIEFF_OPT | Multi-effect Computation Option | DV6MTN | No | |
| NEU_FTUBE_OPT | Far Thermal Tube Selection | DV6MTN | Both | |
| NEU_NGDC_OPT | Neutron Density Correction Option | DV6MTN | Neutron | |
| OACF | O2 Activation Correction Factor (RM) | DV6MTN | 8 | |
| PRES_SEL_NEU | Pressure Correction Source for Neutron Processing | DV6MTN | Annular | |
| PRTD | ARCWizard Preferred Resistivity Log for Rt Display while Multi-Effects | DV6MTN | P34B | |
| RMS | Resistivity of Mud Sample | Borehole | 0.2 | ohm.m |
| STOH | Top of Hole Sector | DV6MTN | SECTOR_0 | |
| T1WM | ARCWizard Weight Multiplier to Measurements for Transmitter 1 | DV6MTN | 1 | |
| T2WM | ARCWizard Weight Multiplier to Measurements for Transmitter 2 | DV6MTN | 1 | |
| T3WM | ARCWizard Weight Multiplier to Measurements for Transmitter 3 | DV6MTN | 1 | |
| T4WM | ARCWizard Weight Multiplier to Measurements for Transmitter 4 | DV6MTN | 1 | |
| T5WM | ARCWizard Weight Multiplier to Measurements for Transmitter 5 | DV6MTN | 1 | |
| TEMP_SEL_ARC | ARC Temperature Selection | DV6MTN | Annular | |
| TEMP_SEL_NEU | Temperature Correction Source for Neutron Processing | DV6MTN | GTSE | |
| UNIFORM_OPT | Uniform Rock Computation Option | DV6MTN | No | |

Tool Control Parameters

Run 1: Parameters

| Parameter | Description | Tool | Value | Unit |
|-----------|--|------------|-------|------|
| OFFBTM_TH | Threshold for deciding whether the bit is off bottom | DNMSESSION | 0.3 | m |

Company: IODP
Well: U1518A
Field: HSM-15A
Rig Name: Joides Resolution
Expedition: 372
Country: New Zealand



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1:240 Measured Depth
Recorded Mode Data