

# VISION Resistivity

## Gamma Ray - Resistivity

Recorded Mode log, Measured Depth 1:200



Company: JAMSTEC

Well: C0002Q

Field: C0002

Rig Name: D/V Chikyū

Prefecture: Wakayama

Country: Japan

Latitude: 33° 18' 3.042" N

Longitude: 136° 38' 12.174" E

Block: Pacific Ocean

FL1: X = 652,382.39 m

FL2: Y = 3,685,834.62 m

UWID:

Rig Name:

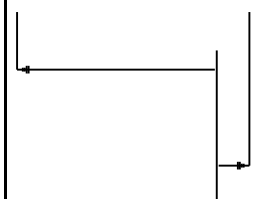
Rig Type:

D/V Chikyū

Drill ship

Log Measured From: - Drill Floor: 28.50 m  
 Permanent Datum: - Mean Sea Level

Ground Level: 1939.00 m



Acquisition Dates: 11-Dec-2018 -- 13-Dec-2018

Other Services:

Log Interval: 4879.60(m)MD -- 4922.82(m)MD

Direction and Inclination

Index Types: Measured Depth

APWD

Index Scales: 1:200

Depth Source: Driller's Depth

Depth Sensor: DES

Print Type: Final

Spud Date: 26-Oct-2018



## Disclaimer

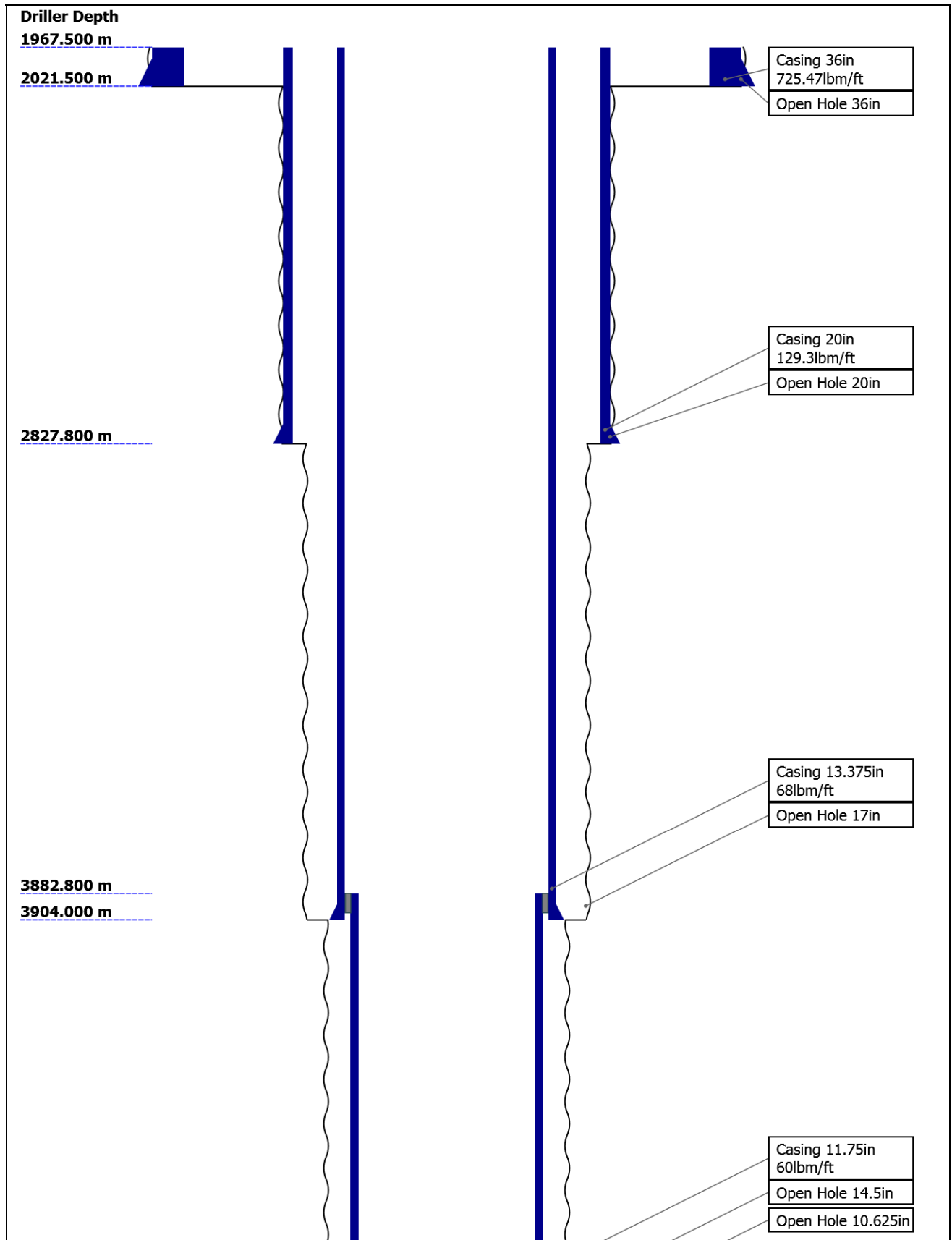
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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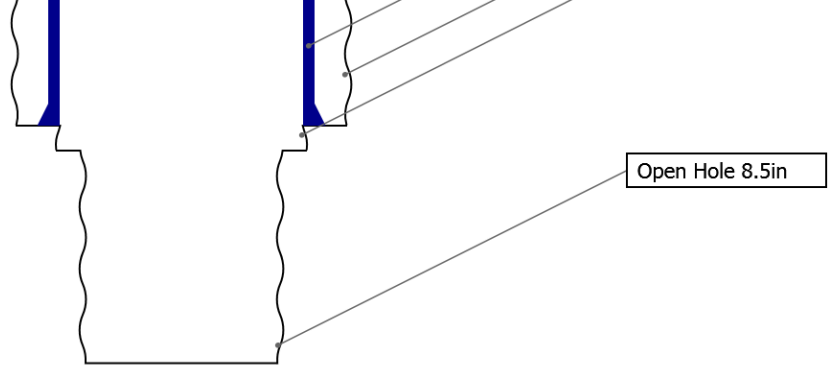
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## Well Sketch



4854.800 m  
4867.000 m

5230.000 m



## Borehole Size/Casing Record

|                       |        |        |        |        |        |      |
|-----------------------|--------|--------|--------|--------|--------|------|
| Bit                   |        |        |        |        |        |      |
| Bit Size ( in )       | 36     | 20     | 17     | 14.5   | 10.625 | 8.5  |
| Top Driller ( m )     | 1967.5 | 2021.5 | 2827.8 | 3904   | 4854.8 | 4867 |
| Bottom Driller ( m )  | 2021.5 | 2827.8 | 3904   | 4854.8 | 4867   | 5230 |
| Casing                |        |        |        |        |        |      |
| Size ( in )           | 36     | 20     | 13.375 | 11.75  |        |      |
| Weight ( lbm/ft )     | 725.47 | 129.3  | 68     | 60     |        |      |
| Inner Diameter ( in ) | 32.099 | 18.779 | 12.415 | 10.772 |        |      |
| Grade                 | X56    | X56    | N/A    | N/A    |        |      |
| Top Driller ( m )     | 1967.5 | 1967.5 | 1967.5 | 3882.8 |        |      |
| Bottom Driller ( m )  | 2021.5 | 2827.8 | 3904   | 4854.8 |        |      |

## Operational Run Summary

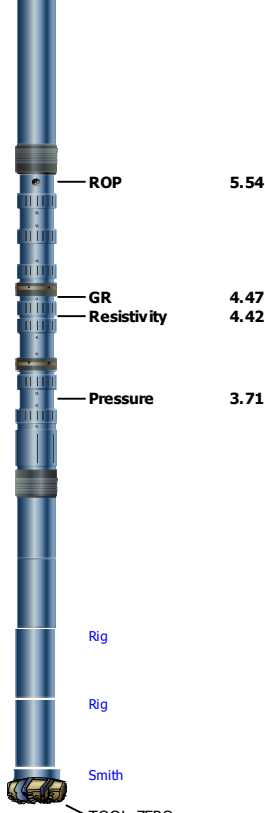
|                                  |                 |  |  |  |  |
|----------------------------------|-----------------|--|--|--|--|
| Parameter ( unit )               | Run 5           |  |  |  |  |
| Date Log Started                 | 09-Dec-2018     |  |  |  |  |
| Time Log Started                 | 14:11:00        |  |  |  |  |
| Date Log Finished                | 14-Dec-2018     |  |  |  |  |
| Time Log Finished                | 21:06:57        |  |  |  |  |
| Bit Size ( in )                  | 8.500           |  |  |  |  |
| Bit Start Depth ( m )            | 0.00            |  |  |  |  |
| Bit Stop Depth ( m )             | 0.00            |  |  |  |  |
| Top Log Interval ( m )           | 4879.60         |  |  |  |  |
| Bottom Log Interval ( m )        | 4922.82         |  |  |  |  |
| Max Hole Deviation ( deg )       | 1.64            |  |  |  |  |
| Azimuth of Max Deviation ( deg ) | 90.69           |  |  |  |  |
| Logging Unit Number              | OLU-MB 8054     |  |  |  |  |
| Logging Unit Location            | Zone2           |  |  |  |  |
| Recorded By                      | SMurakami/KBian |  |  |  |  |
| Witnessed By                     | YSanada/YKido   |  |  |  |  |
| Service Order Number             | 18JAP0007       |  |  |  |  |

## Borehole Fluids

| Parameter( unit )                  | Run 5       |  |  |  |  |
|------------------------------------|-------------|--|--|--|--|
| Fluid Type                         | Water       |  |  |  |  |
| Max Recorded Temperatures ( degC ) | 61          |  |  |  |  |
| Source of Sample                   | Active Tank |  |  |  |  |
| Salinity ( ppm )                   | 141288.5    |  |  |  |  |
| Density ( g/cm3 )                  | 1.37        |  |  |  |  |
| Funnel Viscosity ( s )             | 56          |  |  |  |  |
| Fluid Loss ( cm3 )                 | 2.5         |  |  |  |  |
| PH                                 | 9.9         |  |  |  |  |
| Source RMF                         | Pressed     |  |  |  |  |
| RMC                                | Pressed     |  |  |  |  |
| RM @ Meas Temp ( ohm.m@degC )      | 0.06 @ 21.1 |  |  |  |  |
| RMF @ Meas Temp ( ohm.m@degC )     | 0.05 @ 20.2 |  |  |  |  |
| RMC @ Meas Temp ( ohm.m@degC )     | 0.07 @ 19.8 |  |  |  |  |
| RM @ BHT ( ohm.m@degC )            | 0.04 @ 50   |  |  |  |  |
| RMF @ BHT ( ohm.m@degC )           | 0.03 @ 50   |  |  |  |  |
| RMC @ BHT ( ohm.m@degC )           | 0.04 @ 50   |  |  |  |  |
| Total Solid ( % )                  | 16.5        |  |  |  |  |
| High Gravity Solids ( % )          | 0           |  |  |  |  |

## Remarks and Equipment Summary

| Run 5: Toolstring                  |                        |                                |               | Run 5: Remarks   |  |
|------------------------------------|------------------------|--------------------------------|---------------|--|--|
| <b>Equip name</b><br>TELE675:B0540 | <b>Length</b><br>16.25 | <b>MP name</b><br>TeleScope675 | <b>Offset</b> | Depth Reference is driller's depth measured from Rotary Table.   |  |
|                                    |                        |                                |               | Data presented is Recorded Mode data which was acquired while drilling.  |  |
|                                    |                        |                                |               | Gamma Ray measurement is corrected for bit size, mud weight, tool collar size and potassium content (1.53%) in the mud.                                |  |
|                                    |                        |                                |               | Resistivity measurement is borehole compensated and environmentally corrected for hole size and mud resistivity.                                       |  |
|                                    |                        |                                |               | Reason of POOH: Well condition below the casing window was unstable. Descided to set a bridge plug above the whipstock and attempt to sidetrack again. |  |
|                                    |                        |                                |               | Drilling Time: 28 hrs.   |  |
|                                    |                        |                                |               | Pumping Time: 58.72hrs.  |  |
|                                    |                        |                                |               | Drilling hours is estimation. The bit never went deeper than previous hole depth.  |  |
|                                    |                        |                                |               |  |  |
|                                    |                        |                                |               |  |  |
|                                    |                        |                                |               |  |  |



X/O: 6 3/4"[2]:35 2.00  
3-01-021-0000

X/O: 6 3/4"[1]:02 0.91  
-005-0000

Bit: 8 1/2":QF3391 0.29

TOOL\_ZERO

Lengths are in m  
Maximum Outer Diameter = 8.500 in  
Line: Sensor Location, Value: Gating Offset  
All measurements are relative to TOOL\_ZERO

## Survey Record

### Survey Calculation

Method : Minimum Radius of Curvature DLS Method : Lubinski  
North Reference : Grid North Total Correction Formula : Magnetic Dec - Grid Convergence  
Grid Convergence : 0.90 deg

### Rig Location

Latitude : 33° 18' 3.042" N Longitude : 136° 38' 12.174" E

### Tie In Point

Measured Depth: 4853.87 m Inclination: 1.64 deg Azimuth: 90.69 deg  
True Vertical Depth: 4852.02 m North Displacement: -0.27 m East Displacement: 49.95 m  
N-S VSec Origin: 0.00 m E-W VSec Origin: 0.00 m Vertical Section Azimuth: 90.28 deg

### D&I Inits Computed and Values Used - Run 5

Geomagnetic Model : HDGM 2018 Geomagnetic Date : 17-Nov-2018  
Computed Location B : 46164.86 nT +/- 300.00nT Used Location B : 46164.86 nT +/- 300.00nT  
Computed Location G : 998.92 mgn +/- 2.50mgn Used Location G : 998.92 mgn +/- 2.50mgn  
Computed Magnetic Dip : 47.02 deg +/- 0.45deg Used Magnetic Dip : 47.02 deg +/- 0.45deg  
Computed Magnetic Dec : -7.16 deg Used Magnetic Dec : -7.16 deg  
Computed Total Correction : -8.06 deg Used Total Correction : -8.06 deg

### Survey Quality Index

2 : Long Survey failed mag criteria 28 : Tie-In Point

### Survey Correction Index

0 : No correction

### Survey Description Index

0 : Not Flagged Survey

| Seq | MD (m)  | Incl (deg) | Azim (deg) | Course (m) | TVD (m) | V Sec (m) | N/ -S (m) | E/ -W (m) | Closure (m) | at Azim (deg) | DLS deg/30m | Tool Type | QI | CI | DI |
|-----|---------|------------|------------|------------|---------|-----------|-----------|-----------|-------------|---------------|-------------|-----------|----|----|----|
| 1   | 4853.87 | 1.64       | 90.69      | ----       | 4852.02 | 49.95     | -0.27     | 49.95     | 49.95       | 90.31         | 0.00        | TIP       | 28 | 0  | 0  |
| 2   | 4870.63 | 3.61       | 138.88     | 16.76      | 4868.77 | 50.54     | -0.67     | 50.54     | 50.54       | 90.76         | 5.00        | TeleScope | 2  | 0  | 0  |
| 3   | 4882.77 | 3.16       | 140.86     | 12.13      | 4880.88 | 51.00     | -1.22     | 51.00     | 51.01       | 91.37         | 1.14        | TeleScope | 2  | 0  | 0  |
| 4   | 4897.67 | 0.64       | 145.72     | 14.91      | 4895.77 | 51.31     | -1.60     | 51.30     | 51.33       | 91.79         | 5.07        | TeleScope | 2  | 0  | 0  |
| 5   | 4908.67 | 0.96       | 50.36      | 11.00      | 4906.77 | 51.42     | -1.60     | 51.41     | 51.44       | 91.78         | 3.28        | TeleScope | 2  | 0  | 0  |

# Run 5

## Run 5\_LWD Log

### Software Version

|                           |  |
|---------------------------|--|
| <b>Acquisition System</b> | <b>Version</b>                         |
| Maxwell 2018 SP2          | 8.2.104493.3100                        |
| Application Patch         | DnM_TestKit-PD-DHS31-2018-2_8.2.104864 |

### Composite Summary

| Run Name | Pass Objective | Direction | Top       | Bottom    | Start                     | Stop                       | Include Parallel Data |
|----------|----------------|-----------|-----------|-----------|---------------------------|----------------------------|-----------------------|
| Run 5    | Ream Down 1    | Down      | 4883.86 m | 4927.37 m | 11-Dec-2018<br>3:04:00 PM | 13-Dec-2018<br>11:51:00 AM | Yes                   |

All depths are referenced to toolstring zero

### Log

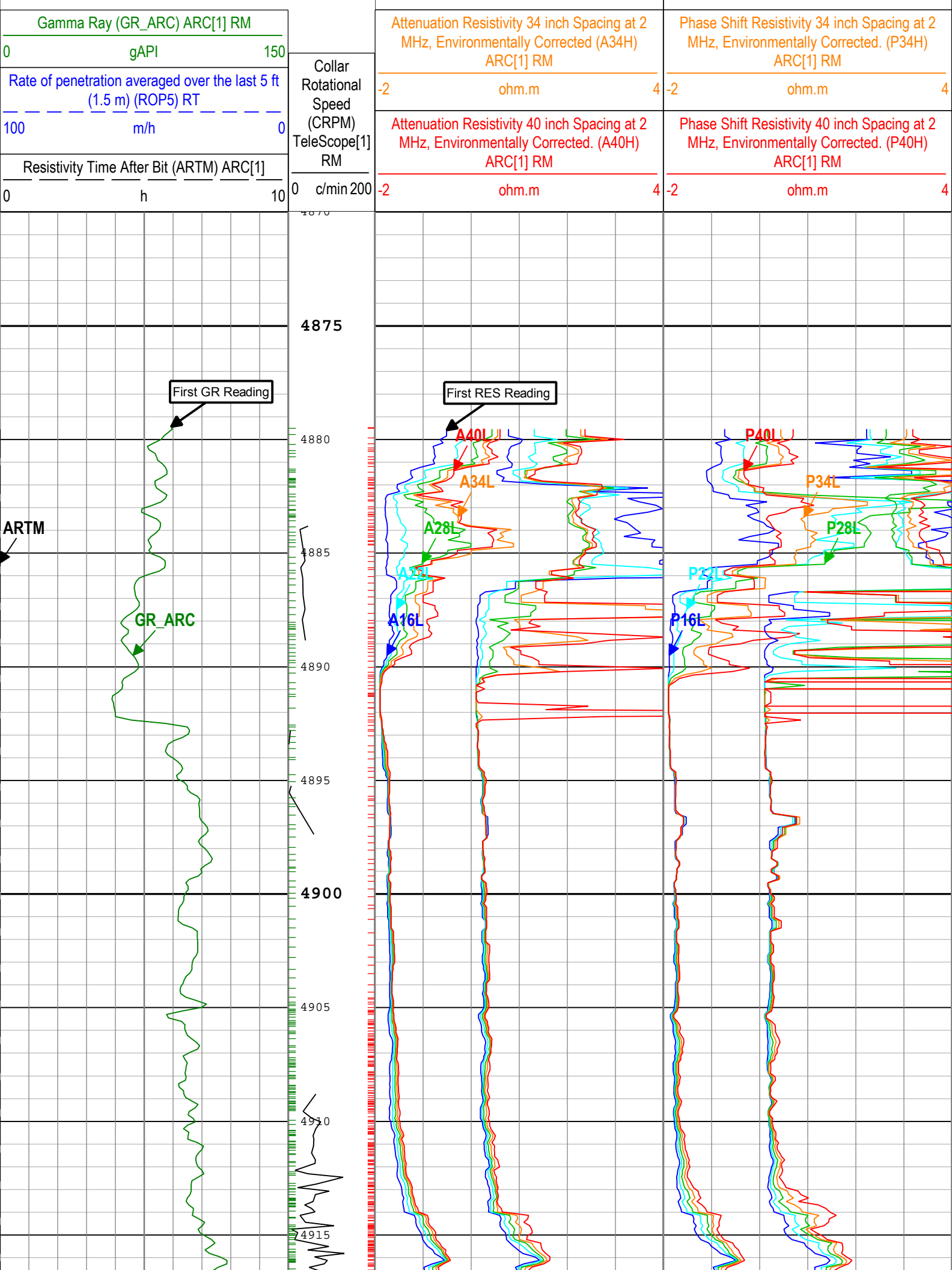
Company: JAMSTEC Well: C0002Q  
Run 5: S121

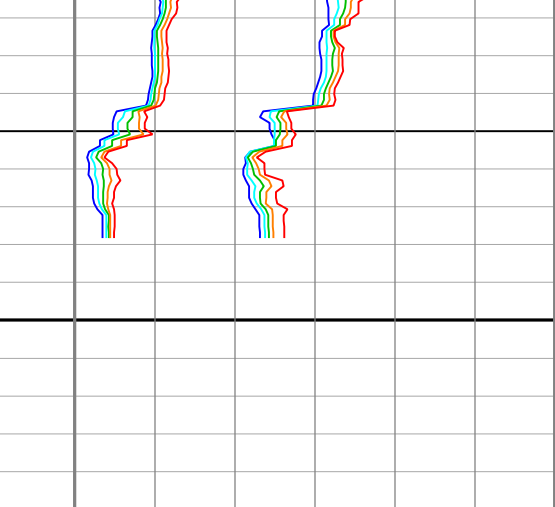
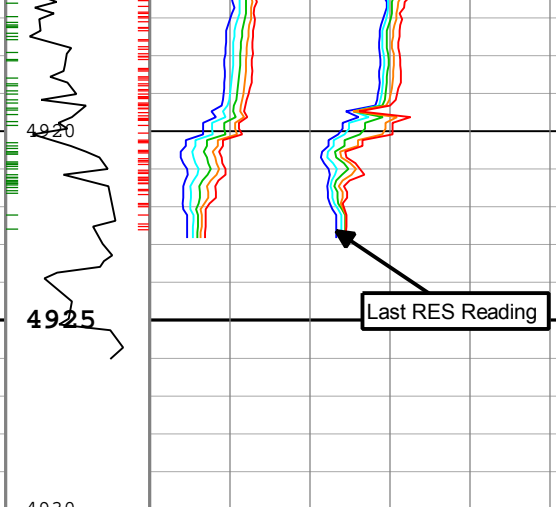
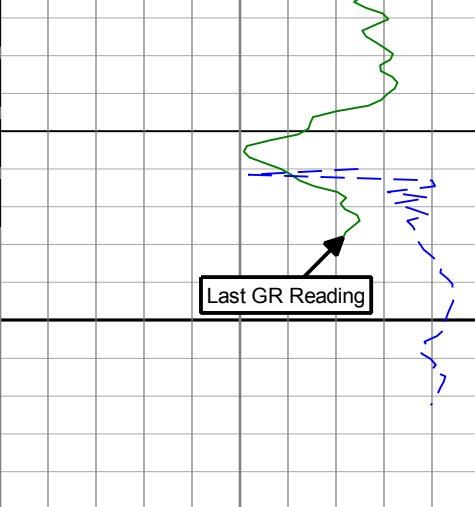
Description: ARC Blended Resistivity 2-Log Format: Log ( VISION Resistivity MD ) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth  
Creation Date: 28-Feb-2019 17:56:30

├ TICK\_ARC\_GR - Gamma Ray Tick Marks ARC[1] RM

└ TICK\_ARC\_RES - Resistivity Tick Marks ARC[1] RM

|  |   |
|--|---|
| Attenuation Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected (A16L) ARC[1] RM | Phase Shift Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected. (P16L) ARC[1] RM |
| 0 ohm.m 6  | 0 ohm.m 6   |
| Attenuation Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected (A22L) ARC[1] RM | Phase Shift Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected. (P22L) ARC[1] RM |
| 0 ohm.m 6  | 0 ohm.m 6   |
| Attenuation Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected (A28L) ARC[1] RM | Phase Shift Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected. (P28L) ARC[1] RM |
| 0 ohm.m 6  | 0 ohm.m 6   |
| Attenuation Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected (A34L) ARC[1] RM | Phase Shift Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected. (P34L) ARC[1] RM |
| 0 ohm.m 6  | 0 ohm.m 6   |
| Attenuation Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected (A40L) ARC[1] RM | Phase Shift Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected. (P40L) ARC[1] RM |
| 0 ohm.m 6  | 0 ohm.m 6   |
| Attenuation Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected (A16H) ARC[1] RM   | Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H) ARC[1] RM   |
| -2 ohm.m 4   | -2 ohm.m 4  |
| Attenuation Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected (A22H) ARC[1] RM   | Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) ARC[1] RM   |
| -2 ohm.m 4   | -2 ohm.m 4  |
| Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) ARC[1] RM   | Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) ARC[1] RM   |
| -2 ohm.m 4   | -2 ohm.m 4  |





|   |     |      |     |
|---|-----|------|-----|
| Gamma Ray (GR_ARC) ARC[1] RM                                      | 0   | gAPI | 150 |
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT | 100 | m/h  | 0   |
| Resistivity Time After Bit (ARTM) ARC[1]                          | 0   | h    | 10  |

|  |   |       |     |
|--|---|-------|-----|
| Collar Rotational Speed (CRPM) TeleScope[1] RM | 0 | c/min | 200 |
|--|---|-------|-----|

|  |    |       |   |
|--|----|-------|---|
| Attenuation Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected (A16L) ARC[1] RM | 0  | ohm.m | 6 |
| Attenuation Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected (A22L) ARC[1] RM | 0  | ohm.m | 6 |
| Attenuation Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected (A28L) ARC[1] RM | 0  | ohm.m | 6 |
| Attenuation Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected (A34L) ARC[1] RM | 0  | ohm.m | 6 |
| Attenuation Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected (A40L) ARC[1] RM | 0  | ohm.m | 6 |
| Attenuation Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected (A16H) ARC[1] RM   | -2 | ohm.m | 4 |
| Attenuation Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected (A22H) ARC[1] RM   | -2 | ohm.m | 4 |
| Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) ARC[1] RM   | -2 | ohm.m | 4 |
| Attenuation Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected (A34H) ARC[1] RM   | -2 | ohm.m | 4 |
| Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected (A40H) ARC[1] RM   | -2 | ohm.m | 4 |

|   |    |       |   |
|---|----|-------|---|
| Phase Shift Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected. (P16L) ARC[1] RM | 0  | ohm.m | 6 |
| Phase Shift Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected. (P22L) ARC[1] RM | 0  | ohm.m | 6 |
| Phase Shift Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected. (P28L) ARC[1] RM | 0  | ohm.m | 6 |
| Phase Shift Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected. (P34L) ARC[1] RM | 0  | ohm.m | 6 |
| Phase Shift Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected. (P40L) ARC[1] RM | 0  | ohm.m | 6 |
| Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H) ARC[1] RM   | -2 | ohm.m | 4 |
| Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) ARC[1] RM   | -2 | ohm.m | 4 |
| Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) ARC[1] RM   | -2 | ohm.m | 4 |
| Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) ARC[1] RM   | -2 | ohm.m | 4 |
| Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) ARC[1] RM   | -2 | ohm.m | 4 |



|           |    |       |   |    |       |   |
|-----------|----|-------|---|----|-------|---|
| ARC[1] RM | -2 | ohm.m | 4 | -2 | ohm.m | 4 |
|-----------|----|-------|---|----|-------|---|

-TICK\_ARC\_RES - Resistivity Tick Marks ARC[1] RM

-TICK\_ARC\_GR - Gamma Ray Tick Marks ARC[1] RM

Description: ARC Blended Resistivity 2-Log Format: Log ( VISION Resistivity MD ) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth  
 Creation Date: 28-Feb-2019 17:56:30

## Channel Processing Parameters

### Run 5: Parameters

| Parameter           | Description   | Tool       | Value           | Unit    |
|---------------------|---|------------|-----------------|---------|
| ABNT                | Abnormal Transmitter Indicator                          | ARC6       | NO_TX_FAILED    |         |
| BH_COMPUTE          | Borehole Effect Computation Option                      | ARC6       | No              |         |
| BHK                 | Drilling Fluid Potassium Concentration                  | Borehole   | 1.53            | %       |
| BHT                 | Bottom Hole Temperature                                 | Borehole   | 50              | degC    |
| BS                  | Bit Size  | DNMSESSION | 8.5             | in      |
| DEPTH_SEL           | Depth Selection Parameter                               | DNMSESSION | Driller's Depth |         |
| DFD                 | Drilling Fluid Density                                  | Borehole   | 1.37            | g/cm3   |
| DFT_CATEGORY        | Drilling Fluid Type                                     | Borehole   | Water           |         |
| GGRD                | Geothermal Gradient                                     | Borehole   | 18.23           | degC/km |
| GRSE_RM             | Generalized Mud Resistivity Selection for Recorded Mode | Borehole   | REMS(RM)        |         |
| GTSE_RM             | Generalized Temperature Selection for Recorded Mode     | Borehole   | GTEM_GRDSURF    |         |
| HIGH_BLEND          | High Resistivity Threshold for Blending                 | ARC6       | 2               | ohm.m   |
| INVAS_COMPUTE       | Invasion Computation Option                             | ARC6       | No              |         |
| LOW_BLEND           | Low Resistivity Threshold for Blending                  | ARC6       | 1               | ohm.m   |
| MST                 | Mud Sample Temperature                                  | Borehole   | 21.1            | degC    |
| MULTIEFFECT_COMPUTE | Multi-effect Computation Option                         | ARC6       | No              |         |
| RMS                 | Resistivity of Mud Sample                               | Borehole   | 0.06            | ohm.m   |
| SHT                 | Surface Hole Temperature                                | Borehole   | 20              | degC    |
| ATMP_ARC            | ARC Temperature Selection                               | ARC6       | Annular         |         |
| UNIFORM_COMPUTE     | Uniform Rock Computation Option                         | ARC6       | No              |         |

## Tool Control Parameters

### Run 5: Parameters

| Parameter | Description  | Tool       | Value | Unit |
|-----------|--|------------|-------|------|
| OFFBTM_TH | Threshold for deciding whether the bit is off bottom | DNMSESSION | 0.4   | m    |

## Run 5

## Run 5\_DML

## Software Version

| Acquisition System | Version                                |
|--------------------|--|
| Maxwell 2018 SP2   | 8.2.104493.3100                        |
| Application Patch  | DnM_TestKit-PD-DHS31-2018-2_8.2.104864 |

## Composite Summary

| Run Name | Pass Objective | Direction | Top       | Bottom    | Start                     | Stop                       | Include Parallel Data |
|----------|----------------|-----------|-----------|-----------|---------------------------|----------------------------|-----------------------|
| Run 5    | Ream Down 1    | Down      | 4883.86 m | 4927.37 m | 11-Dec-2018<br>3:04:00 PM | 13-Dec-2018<br>11:51:00 AM | Yes                   |

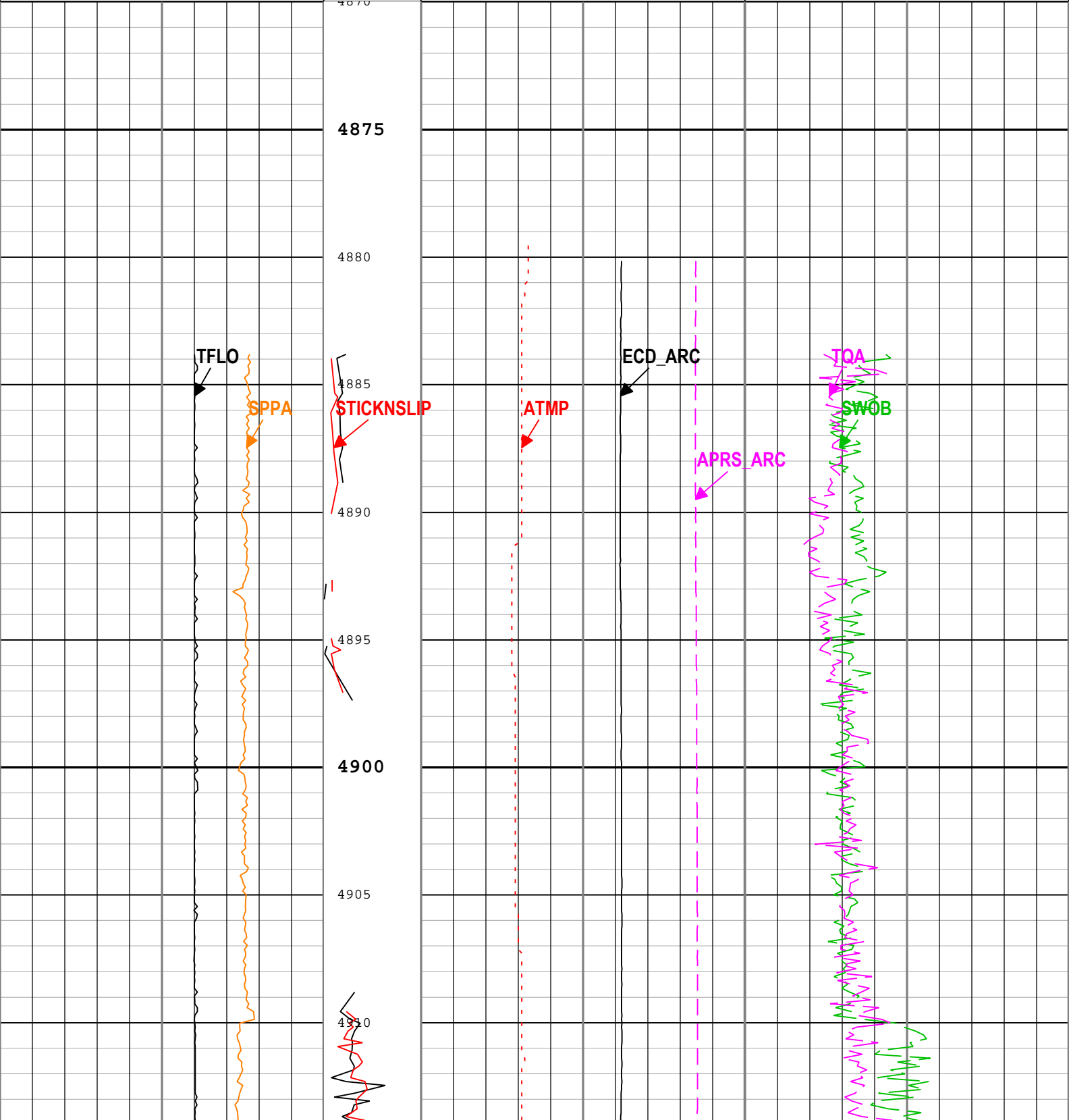
All depths are referenced to toolstring zero

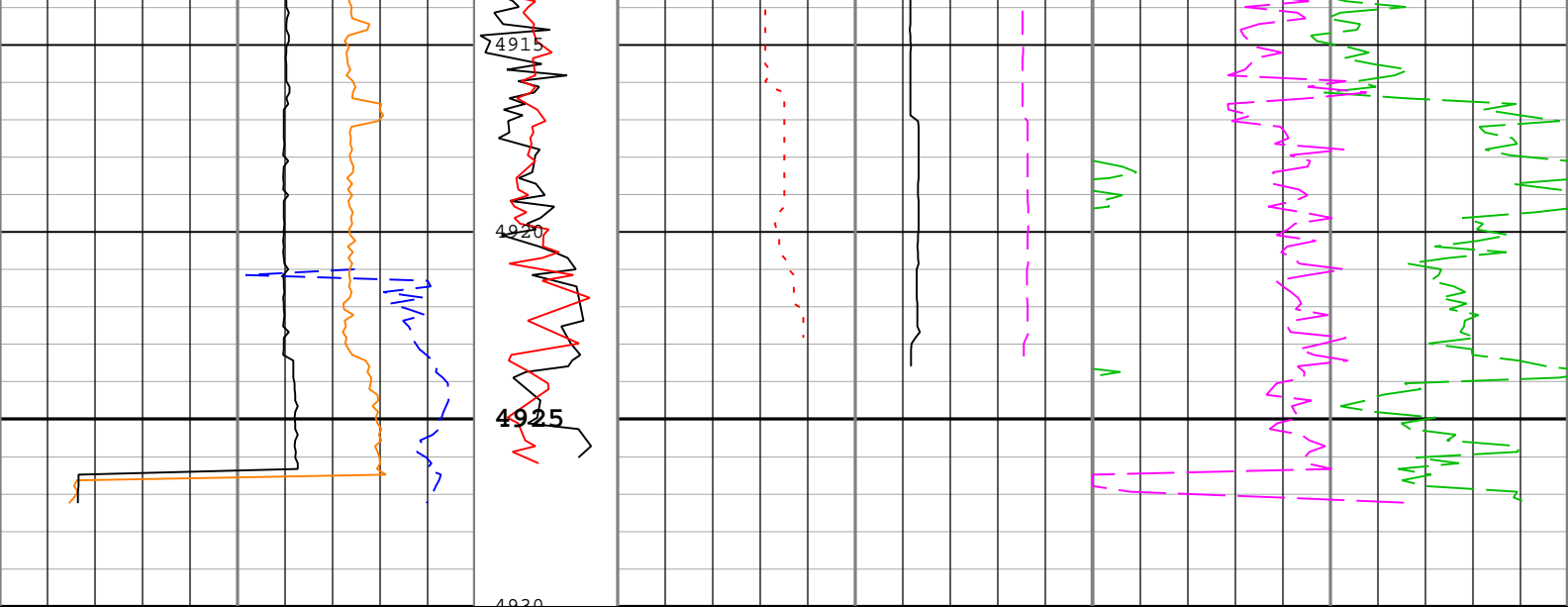
## Log

Company: JAMSTEC Well: C0002Q  
Run 5: S121

Description: Format: Log ( Drilling Mechanics Log 675 RM MD ) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth Creation Date:

|   |  |      |       |     |
|---|--|------|-------|-----|
| CRPM_Tele Scope   | Downhole Annulus Pressure (APRS_ARC) ARC[1] RM     | 0    | MPa   | 80  |
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT | Downhole Annulus Temperature (ATMP) ARC[1] RM      | 0    | degC  | 100 |
| 100 m/h   | Stick Slip Indicator (STICKNSLIP) P                | 0    | g/cm3 | 1.8 |
| Standpipe Pressure (SPPA) RT                                      | TeleScope[1] RM                                    | -300 | kN    | 300 |
| 0 MPa   | Equivalent Circulating Density (ECD_ARC) ARC[1] RM | 0    | kN.m  | 50  |
| Total flow rate of all active pumps (TFLO) RT                     |  | 0    |       |     |
| 0 gal/min   |  |      |       |     |
| 1000  |  |      |       |     |





|  |  |   |  |
|--|--|---|--|
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT<br>100 m/h 0 | CRPM_Tele Scope<br>0 c/min 200                                       | Downhole Annulus Pressure (APRS_ARC) ARC[1] RM<br>MPa 80            | Surface Weight On Bit (SWOB) RT<br>-300 kN 300 |
| Standpipe Pressure (SPPA) RT<br>0 MPa 30                                       | Stick Slip Indicator (STICKNSLI P)<br>TeleScope[1] RM<br>0 c/min 400 | Downhole Annulus Temperature (ATMP) ARC[1] RM<br>degC 100           | Surface Torque (TQA) RT<br>0 kN.m 50           |
| Total flow rate of all active pumps (TFLO) RT<br>0 gal/min 1000                |  | Equivalent Circulating Density (ECD_ARC) ARC[1] RM<br>0.8 g/cm3 1.8 |  |

Description: Format: Log ( Drilling Mechanics Log 675 RM MD ) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth Creation Date: 28-Feb-2019 17:56:31

## Channel Processing Parameters

### Run 5: Parameters

| Parameter    | Description  | Tool       | Value           | Unit  |
|--------------|--|------------|-----------------|-------|
| DEPTH_SEL    | Depth Selection Parameter                                | DNMSESSION | Driller's Depth |       |
| FLEV         | Depth of Drilling Fluid Level to LMF (Log Measured From) | Borehole   | 3               | m     |
| RHO_SEAWATER | Density of the Sea Water                                 | Borehole   | 1.022           | g/cm3 |
| SF_FLAG      | Mud Return to Sea Floor (No Riser)?                      | Borehole   | No              |       |

## Tool Control Parameters

### Run 5: Parameters

| Parameter | Description  | Tool       | Value | Unit |
|-----------|--|------------|-------|------|
| OFFBTM_TH | Threshold for deciding whether the bit is off bottom | DNMSESSION | 0.4   | m    |

## Calibration Report

### ARC6 (Array Resistivity Compensated 675) Calibration - Run 5

Primary Equipment : Elec. Chassis HP with AIM Receiver AREA 570

### RESAIRCAL - Resistivity: Air

Master (Time Frame File): 02:39:59 24-Oct-2018

| Measurement             | Unit | Phase  | Nominal | Low Limit | Actual | High Limit |  |
|-------------------------|------|--------|---------|-----------|--------|------------|--|
| Attenuation T1 at 2 MHz | dB   | Master | 8.500   | 6.500     | 8.784  | 10.500     | <div style="width: 100%; height: 10px; background: linear-gradient(to right, black, black, green, black, black);"></div> |
| Attenuation T2 at 2 MHz | dB   | Master | 6.500   | 4.500     | 6.175  | 8.500      | <div style="width: 100%; height: 10px; background: linear-gradient(to right, black, black, green, black, black);"></div> |
| Attenuation T3 at 2 MHz | dB   | Master | 4.500   | 2.500     | 5.413  | 6.500      | <div style="width: 100%; height: 10px; background: linear-gradient(to right, black, black, green, black, black);"></div> |
| Attenuation T4 at 2 MHz | dB   | Master | 4.600   | 2.600     | 4.086  | 6.600      | <div style="width: 100%; height: 10px; background: linear-gradient(to right, black, black, green, black, black);"></div> |

|  |             |              |                |                  |               |                   |  |
|--|-------------|--------------|----------------|------------------|---------------|-------------------|--|
| Attenuation T5 at 2 MHz                        | dB          | Master       | 3.600          | 1.600            | 3.965         | 5.600             |  |
| Phase Shift T1 at 2 MHz                        | deg         | Master       | 0.100          | -3.900           | 0.207         | 4.100             |  |
| Phase Shift T2 at 2 MHz                        | deg         | Master       | 0.100          | -3.900           | -0.155        | 4.100             |  |
| Phase Shift T3 at 2 MHz                        | deg         | Master       | 0.100          | -3.900           | 0.147         | 4.100             |  |
| Phase Shift T4 at 2 MHz                        | deg         | Master       | 0.100          | -3.900           | -0.186        | 4.100             |  |
| Phase Shift T5 at 2 MHz                        | deg         | Master       | 0.100          | -3.900           | 0.129         | 4.100             |  |
| Attenuation T1 at 400 KHz                      | dB          | Master       | 8.500          | 6.500            | 8.782         | 10.500            |  |
| Attenuation T2 at 400 KHz                      | dB          | Master       | 6.500          | 4.500            | 6.189         | 8.500             |  |
| Attenuation T3 at 400 KHz                      | dB          | Master       | 4.500          | 2.500            | 5.402         | 6.500             |  |
| Attenuation T4 at 400 KHz                      | dB          | Master       | 4.600          | 2.600            | 4.090         | 6.600             |  |
| Attenuation T5 at 400 KHz                      | dB          | Master       | 3.600          | 1.600            | 3.966         | 5.600             |  |
| Phase Shift T1 at 400 KHz                      | deg         | Master       | 0.100          | -3.900           | 1.065         | 4.100             |  |
| Phase Shift T2 at 400 KHz                      | deg         | Master       | 0.100          | -3.900           | -1.152        | 4.100             |  |
| Phase Shift T3 at 400 KHz                      | deg         | Master       | 0.100          | -3.900           | 1.103         | 4.100             |  |
| Phase Shift T4 at 400 KHz                      | deg         | Master       | 0.100          | -3.900           | -1.162        | 4.100             |  |
| Phase Shift T5 at 400 KHz                      | deg         | Master       | 0.100          | -3.900           | 1.075         | 4.100             |  |
| <b>GRGAIN - Gamma Ray: Blanket</b>             |             |              |                |                  |               |                   |  |
| Master (Time Frame File): 18:47:37 24-Oct-2018 |             |              |                |                  |               |                   |  |
| <b>Measurement</b>                             | <b>Unit</b> | <b>Phase</b> | <b>Nominal</b> | <b>Low Limit</b> | <b>Actual</b> | <b>High Limit</b> |  |
| Gamma Ray Calibration Gain                     |             | Master       | 1.000          | 0.580            | 1.155         | 1.250             |  |

**Company:** JAMSTEC  
**Well:** C0002Q  
**Field:** C0002  
**Rig Name:** D/V Chikyu  
**Prefecture:** Wakayama  
**Country:** Japan



**VISION Resistivity**  
**Gamma Ray - Resistivity**

Recorded Mode log, Measured Depth 1:200