

Company:

JAMSTEC

Well:

C0019F

Field:

C0019/C0026

Rig Name:

The "Deep Sea D/V CHIKYU"

Prefecture:

Miyagi

Country:

Japan

MicroScope HD Resistivity Image

GR, HD Resistivity Image, Resistivity

8.5in Recorded Mode, MD 1:500



Company:

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Field:

C0019/C0026

Rig Name:

The "Deep Sea D/V CHIKYU"

Prefecture:

Miyagi

Country:

Japan

Latitude:

37° 56' 20.706" N

Longitude:

143° 54' 47.844" E

Block:

C0019/C0026

FL1:

X: 756017.4m

FL2:

Y: 4203068.8m

UWID:

O.1042972.01

Rig Name:

The "Deep Sea D/V CHIKYU"

Rig Type:

Drill ship

Log Measured From: - Drill Floor: 28.50 m

Permanent Datum: - Mean Sea Level



Acquisition Dates:

14-Sep-2024 -- 15-Sep-2024

Log Interval:

6926.40mBRT - 7024.00mBRT

Index Types:

Measured Depth

Index Scales:

1:500

Depth Source:

Driller's Depth

Depth Sensor:

DES

Print Type:

Final

Spud Date:

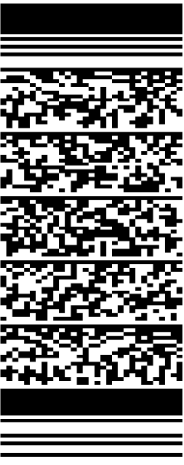
13-Sep-2024

Other Services:

Cont. DNI

TAPWD ECD

Delta-T



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## Well Sketch

**Driller Depth**

**6923.000 m**





## Borehole Size/Casing Record

|                      |      |  |  |  |  |  |
|----------------------|------|--|--|--|--|--|
| Bit                  |      |  |  |  |  |  |
| Bit Size ( in )      | 8.5  |  |  |  |  |  |
| Top Driller ( m )    | 6923 |  |  |  |  |  |
| Bottom Driller ( m ) | 7024 |  |  |  |  |  |

## Operational Run Summary

|                                  |                                            |  |  |  |  |  |
|----------------------------------|--------------------------------------------|--|--|--|--|--|
| Parameter ( unit )               | C0019F_Run1                                |  |  |  |  |  |
| Date Log Started                 | 14-Sep-2024                                |  |  |  |  |  |
| Time Log Started                 | 04:01:43                                   |  |  |  |  |  |
| Date Log Finished                | 15-Sep-2024                                |  |  |  |  |  |
| Time Log Finished                | 22:51:28                                   |  |  |  |  |  |
|                                  |                                            |  |  |  |  |  |
| Bit Size ( in )                  | 8.500                                      |  |  |  |  |  |
| Bit Start Depth ( m )            | 6926.400                                   |  |  |  |  |  |
| Bit Stop Depth ( m )             | 7024.000                                   |  |  |  |  |  |
| Top Log Interval ( m )           | 6926.400                                   |  |  |  |  |  |
| Bottom Log Interval ( m )        | 7019.009                                   |  |  |  |  |  |
|                                  |                                            |  |  |  |  |  |
| Max Hole Deviation ( deg )       | 9.02                                       |  |  |  |  |  |
| Azimuth of Max Deviation ( deg ) | 245.08                                     |  |  |  |  |  |
|                                  |                                            |  |  |  |  |  |
| Logging Unit Number              | OLU-MAB<br>20011                           |  |  |  |  |  |
| Logging Unit Location            | Zone2                                      |  |  |  |  |  |
| Recorded By                      | W.Song/Q. Ruan/<br>N. Sato/K.<br>Kawaguchi |  |  |  |  |  |
| Witnessed By                     | A. Wspanialy                               |  |  |  |  |  |
| Service Order Number             | O.1042972.01                               |  |  |  |  |  |

## Borehole Fluids

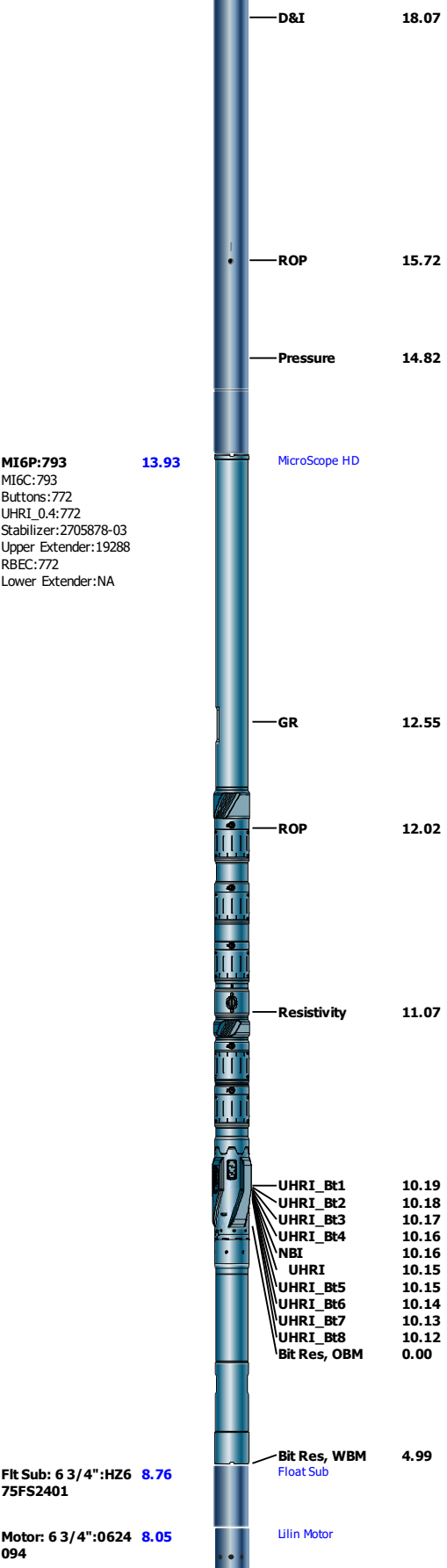
|                                    |             |  |  |  |  |  |
|------------------------------------|-------------|--|--|--|--|--|
| Parameter( unit )                  | C0019F_Run1 |  |  |  |  |  |
| Fluid Type                         | Water       |  |  |  |  |  |
| Fluid Name                         | Sea Water   |  |  |  |  |  |
| Max Recorded Temperatures ( degC ) | 2           |  |  |  |  |  |
| Source of Sample                   | Active Tank |  |  |  |  |  |
| Salinity ( ppm )                   | 36665       |  |  |  |  |  |
| Density ( g/cm3 )                  | 1.03        |  |  |  |  |  |

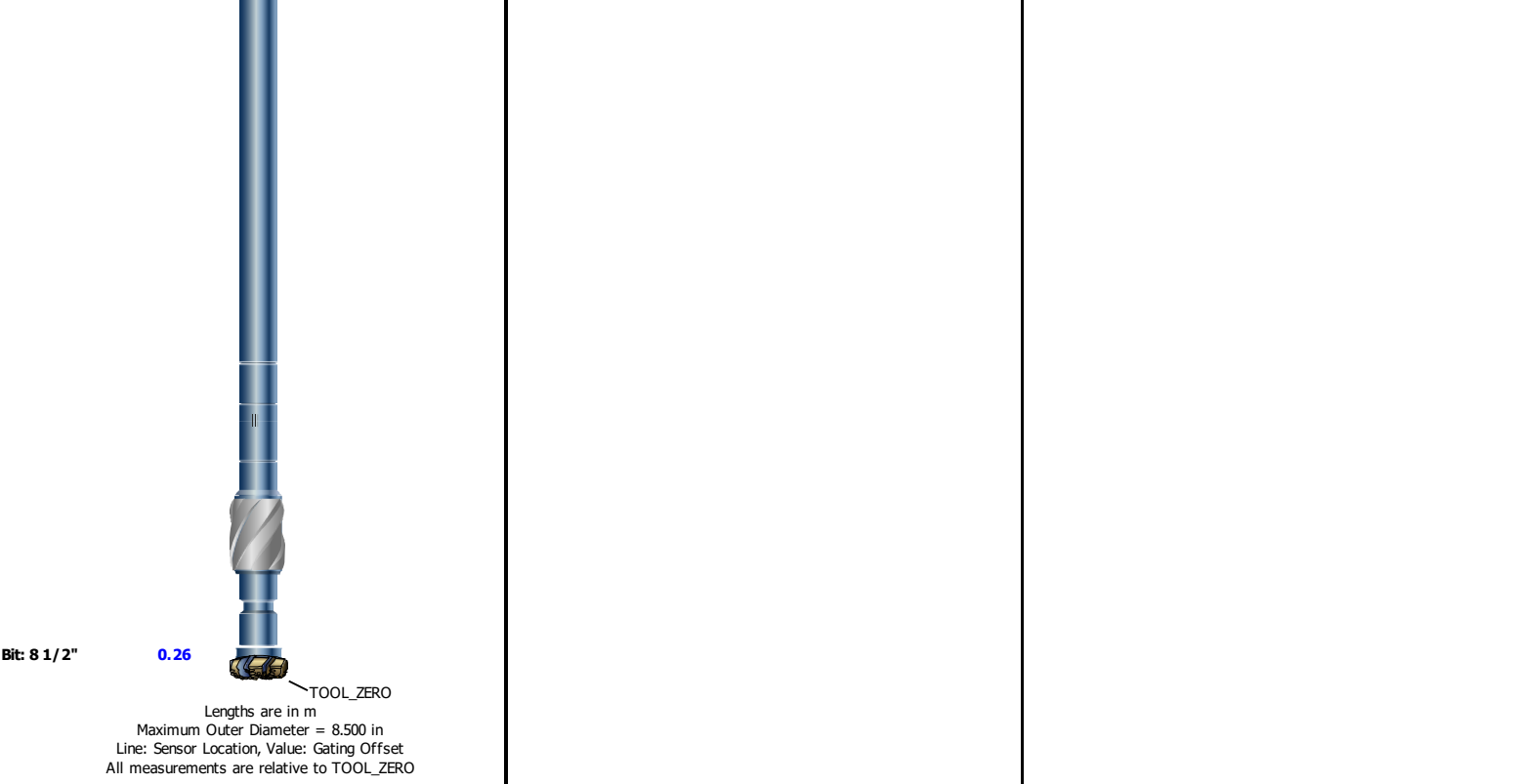
|                                   |            |  |  |  |  |  |
|-----------------------------------|------------|--|--|--|--|--|
| Funnel Viscosity ( s )            |            |  |  |  |  |  |
| Fluid Loss ( cm3 )                |            |  |  |  |  |  |
| PH                                | 7          |  |  |  |  |  |
| Source RMF                        | Calculated |  |  |  |  |  |
| RMC                               | Calculated |  |  |  |  |  |
| RM @ Meas Temp<br>( ohm.m@degC )  | 0.08 @ 2   |  |  |  |  |  |
| RMF @ Meas Temp<br>( ohm.m@degC ) | 0.06 @ 2   |  |  |  |  |  |
| RMC @ Meas Temp<br>( ohm.m@degC ) | 0.12 @ 2   |  |  |  |  |  |
| RM @ BHT ( ohm.m@degC )           | 0.08 @ 2   |  |  |  |  |  |
| RMF @ BHT ( ohm.m@degC )          | 0.06 @ 2   |  |  |  |  |  |
| RMC @ BHT ( ohm.m@degC )          | 0.12 @ 2   |  |  |  |  |  |
| Total Solid ( % )                 |            |  |  |  |  |  |
| High Gravity Solids ( % )         |            |  |  |  |  |  |

## Remarks and Equipment Summary

| C0019F_Run1: Toolstring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                           |  |  | C0019F_Run1: Remarks |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------|--|
| <div><div><div>Equip name</div><div>SONICSCOPE6:H33</div></div><div><div>Length</div><div>32.42</div></div></div> <div><div>MP name</div><div>SonicScope</div></div> <div><div>Offset</div><div></div></div> <div><div>40</div><div>XOS6:NCN2161+5</div><div>MP6DC:H3340</div><div>Upper Stabilizer:BT-6</div><div>300-01</div><div>Lower Stabilizer:BT-6</div><div>092-01</div><div>Upper Extender:NA</div><div>MP6UC:8029</div><div>MP6LC:8029</div><div>Lower Extender:07-04</div><div>7</div></div> <div><div>ROP</div><div>28.8</div></div> <div><div>Delta-T</div><div>27.59</div></div> <div><div>TELE675:N003128</div><div>22.09</div></div> <div><div>TeleScope</div><div></div></div> <div><div>MSSU675:PCT0920202</div><div>8</div><div>Upper Extender:SN21</div><div>MDC675:N003128</div><div>MMA:7142</div><div>MDI:5040</div><div>PMGD:1982</div><div>PMEA:4189</div><div>MTA:3674-T</div><div>MTK675-0017</div></div> | All data presented is from tool's memory and acquired while drilling.                                                                     |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Depth reference is driller's depth.                                                                                                       |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Drilling fluid is sea water.                                                                                                              |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MicroScope Gamma Ray is environmentally corrected for bit size, tool size, and mud weight                                                 |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MicroScope Resistivity is borehole compensated and environmentally corrected for bit size and mud resistivity at bottom hole temperature. |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Record rate for Resistivity from MicroScope is depending on RPM.                                                                          |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Drilling log interval: 6926.40mBRT - 7019.00mBRT.                                                                                         |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Drilling interval: 6926.40mBRT - 7024.00mBRT.                                                                                             |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Total pumping hours: 9.91hrs.<br>Total drilling hours: 5.83hrs.                                                                           |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Reason for POOH: TeleScope failure.                                                                                                       |  |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                           |  |  |                      |  |

APWD:5006  
MSSD675:OSSTJ2404-33  
Lower Extender, Long  
:CREPC-12





## 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 : | 1.79 deg                    |                            |                                 |

| Rig Location         |  |                   |                     |                    |                           |
|----------------------|--|-------------------|---------------------|--------------------|---------------------------|
| Latitude :           |  | 37° 56' 20.706" N |                     | Longitude :        |                           |
|                      |  |                   |                     | 143° 54' 47.844" E |                           |
| Tie In Point         |  |                   |                     |                    |                           |
| Measured Depth:      |  | 0.000 m           | Inclination:        | 0.00 deg           | Azimuth:                  |
|                      |  |                   |                     |                    | 0.00 deg                  |
| True Vertical Depth: |  | 0.000 m           | North Displacement: | 0.000 m            | East Displacement:        |
|                      |  |                   |                     |                    | 0.000 m                   |
| N/-S VSec Origin:    |  | 0.000 m           | E/-W VSec Origin:   | 0.000 m            | Vertical Section Azimuth: |
|                      |  |                   |                     |                    | 0.00 deg                  |

|                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Survey Quality Index |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 : Manual           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Survey Correction Index |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 : No correction       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Survey Description Index         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 : Smart Depth Corrected Survey |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Seq | MD<br>(m)    | Incl<br>(deg) | Azim<br>(deg) | Course<br>(m) | TVD<br>(m)   | V Sec<br>(m) | N/ -S<br>(m) | E/ -W<br>(m) | Closure<br>(m) | at Azim<br>(deg) | DLS<br>deg/30m | Tool Type | QI | CI | DI |
|-----|--------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|----------------|------------------|----------------|-----------|----|----|----|
| 1   | 0.000        | 0.00          | 0.00          | - - - -       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000          | 90.00            | 0.00           | TIP       | 9  | 0  | 6  |
| 2   | 6926.50<br>0 | 0.00          | 0.00          | 6926.50<br>0  | 6926.50<br>0 | 0.000        | 0.000        | 0.000        | 0.000          | 90.00            | 0.00           | Other     | 9  | 0  | 6  |
| 3   | 6930.71<br>9 | 7.20          | 243.0<br>8    | 4.219         | 6930.70<br>8 | -0.120       | -0.120       | -0.236       | 0.260          | 243.08           | 51.20          | Other     | 9  | 0  | 6  |
| 4   | 7005.34<br>7 | 9.02          | 245.0<br>8    | 74.628        | 7004.58<br>7 | -4.703       | -4.703       | -9.712       | 10.790         | 244.16           | 0.74           | Other     | 9  | 0  | 6  |
| 5   | 7024.00<br>0 | 9.02          | 245.0<br>8    | 18.653        | 7023.00<br>9 | -5.935       | -5.935       | -12.364      | 13.710         | 244.36           | 0.00           | Other     | 9  | 0  | 6  |

## UDComposite 1

## Software Version

|                    |                  |
|--------------------|------------------|
| Acquisition System | Version          |
| Maxwell 2024.0     | 14.0.226717.3100 |

## Composite Summary

| Run Name     | Pass Objective | Direction | Top      | Bottom     | Start                  | Stop                    | Include Parallel Data |
|--------------|----------------|-----------|----------|------------|------------------------|-------------------------|-----------------------|
| C0019F_Run 1 | Drilling       | Down      | 38.786 m | 7023.532 m | 14-Sep-2024 4:01:43 AM | 15-Sep-2024 10:51:28 PM | No                    |

All depths are referenced to toolstring zero

## Log

Company: JAMSTEC Well: C0019F

UDComposite 1:S025

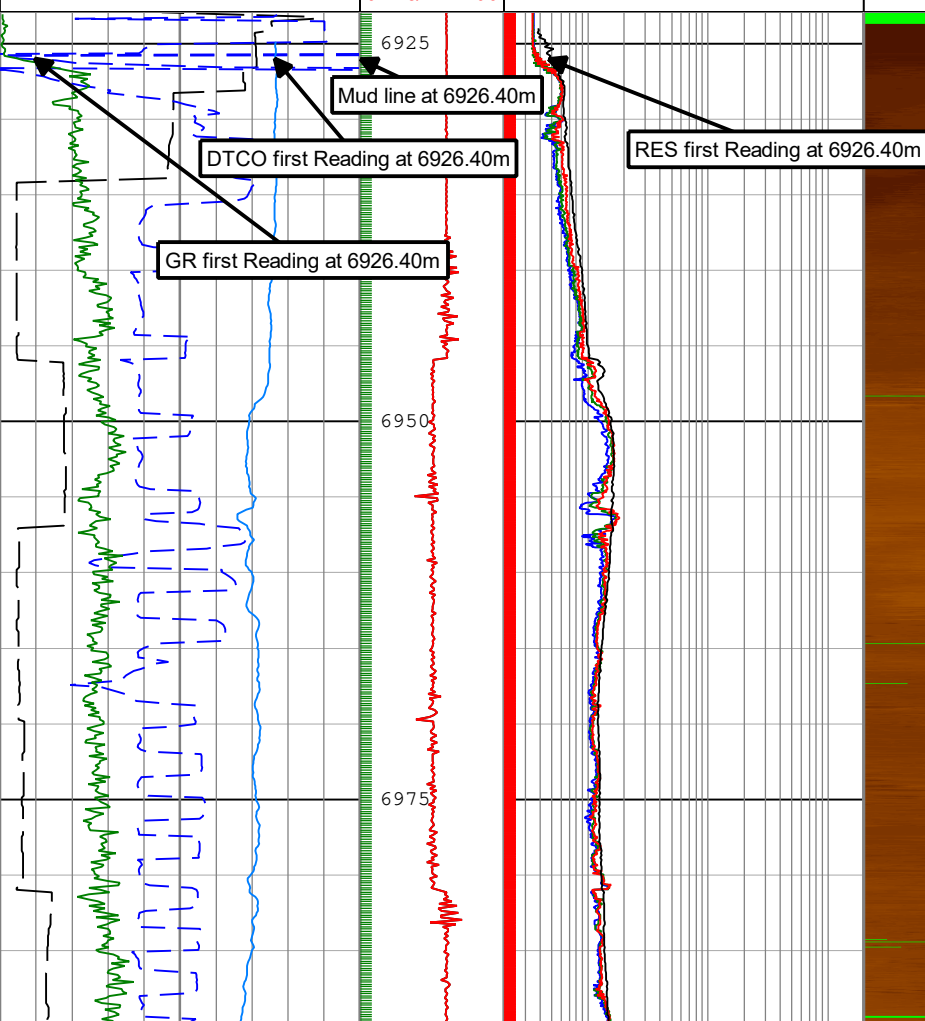
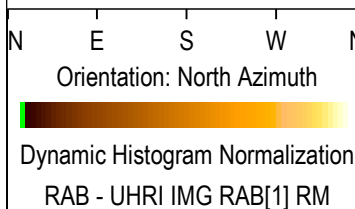
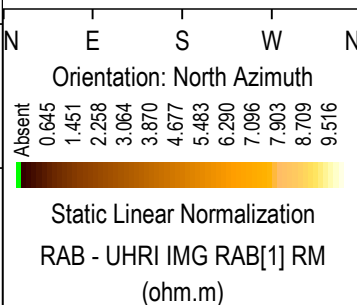
Description: MI6 Quadrant Resistivity RM Format: Log ( MicroScope RES Image final RM MD500 ) Index Scale: 1:500 Index Unit: m Index Type:

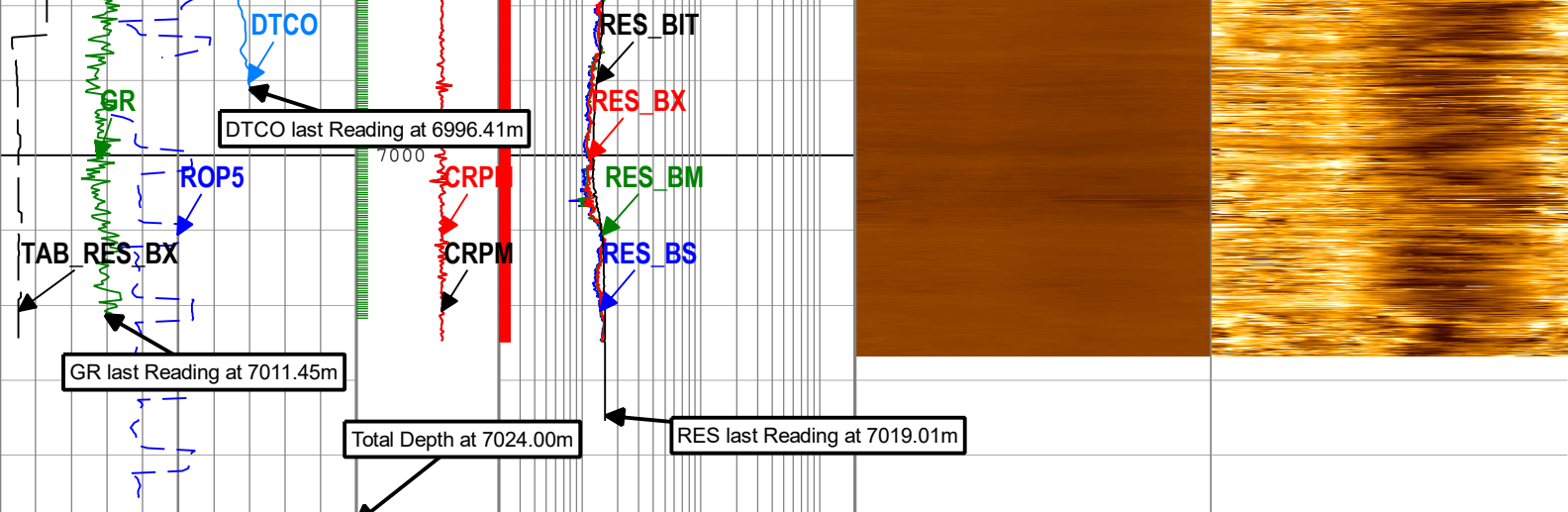
Measured Depth Creation Date: 11-Oct-2024 01:22:00

└ RES\_BD\_DN - Deep Button Resistivity, Down RAB[1] RM

└ GR - Gamma Ray RAB[1] RM

| eXtra Deep Button Resistivity Time After Bit (TAB_RES_BX) RAB[1]  | Bit Resistivity (RES_BIT) RAB[1] RM              |
|-------------------------------------------------------------------|--------------------------------------------------|
| 0 h 10                                                            | 0.2 ohm.m 200                                    |
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT | Shallow Button Resistivity (RES_BS) RAB[1] RM    |
| 50 m/h 0                                                          | 0.2 ohm.m 200                                    |
| Gamma Ray (GR) RAB[1] RM                                          | Medium Button Resistivity (RES_BM) RAB[1] RM     |
| 0 gAPI 150                                                        | 0.2 ohm.m 200                                    |
| Delta-T Compressional (DTCO) SonicScope[1] RM                     | eXtra Deep Button Resistivity (RES_BX) RAB[1] RM |
| 40 us/ft 240                                                      | 0.2 ohm.m 200                                    |
| Collar Rotational Speed (CRPM) RAB[1] RM                          | 0 c/min 100                                      |
| Collar Rotational Speed (CRPM) RAB[1] RM                          | 0 c/min 100                                      |





|                                                                     |                                          |                                                  |                                                                                         |                                                                                     |
|---------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| eXtra Deep Button Resistivity Time After Bit (TAB_RES_BX) RAB[1] RM | Collar Rotational Speed (CRPM) RAB[1] RM | Bit Resistivity (RES_BIT) RAB[1] RM              | Absent 0.645 1.451 2.258 3.064 3.870 4.677 5.483 6.290 7.096 7.903 8.709 9.516          | Dynamic Histogram Normalization RAB - UHRI IMG RAB[1] RM Orientation: North Azimuth |
| 0 h 10                                                              | 0 c/min 100                              | 0.2 ohm.m 200                                    | Static Linear Normalization RAB - UHRI IMG RAB[1] RM (ohm.m) Orientation: North Azimuth | N E S W N                                                                           |
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT   | Collar Rotational Speed (CRPM) RAB[1] RM | Shallow Button Resistivity (RES_BS) RAB[1] RM    |                                                                                         |                                                                                     |
| 50 m/h 0                                                            | 0 c/min 100                              | 0.2 ohm.m 200                                    |                                                                                         |                                                                                     |
| Gamma Ray (GR) RAB[1] RM                                            | Collar Rotational Speed (CRPM) RAB[1] RM | Medium Button Resistivity (RES_BM) RAB[1] RM     |                                                                                         |                                                                                     |
| 0 gAPI 150                                                          | 0 c/min 100                              | 0.2 ohm.m 200                                    |                                                                                         |                                                                                     |
| Delta-T Compressional (DTCO) SonicScope[1] RM                       |                                          | eXtra Deep Button Resistivity (RES_BX) RAB[1] RM |                                                                                         |                                                                                     |
| 40 us/ft 240                                                        |                                          | 0.2 ohm.m 200                                    |                                                                                         |                                                                                     |

GR - Gamma Ray RAB[1] RM

RES\_BD\_DN - Deep Button Resistivity, Down RAB[1] RM

Description: MI6 Quadrant Resistivity RM    Format: Log ( MicroScope RES Image final RM MD500 )    Index Scale: 1:500    Index Unit: m    Index Type: Measured Depth    Creation Date: 11-Oct-2024 01:22:00

| Channel Processing Parameters |                                                                 |             |                 |       |
|-------------------------------|-----------------------------------------------------------------|-------------|-----------------|-------|
| C0019F_Run1: Parameters       |                                                                 |             |                 |       |
| Parameter                     | Description                                                     | Tool        | Value           | Unit  |
| BHK                           | Drilling Fluid Potassium Concentration                          | Borehole    | 0               | %     |
| BHT                           | Bottom Hole Temperature                                         | Borehole    | 2               | degC  |
| BS                            | Bit Size                                                        | DNMSESSION  | 8.5             | in    |
| COLL_MH                       | Lower Labeling Limit for Compressional Slowness - Monopole High | SONICSCOPE6 | 150             | us/ft |
| COUL_MH                       | Upper Labeling Limit for Compressional Slowness - Monopole High | SONICSCOPE6 | 200             | us/ft |
| DEPTH_SEL                     | Depth Selection Parameter                                       | DNMSESSION  | Driller's Depth |       |
| DFD                           | Drilling Fluid Density                                          | Borehole    | 1.03            | g/cm3 |
| DFT_CATEGORY                  | Drilling Fluid Type                                             | Borehole    | Water           |       |
| FIN_DTCO_MODE                 | Final DT Compressional STC Processing Mode                      | SONICSCOPE6 | Receiver Array  |       |
| GCSE_RM                       | Generalized Caliper Selection for DnM recorded mode             | Borehole    | BS              |       |
| GRSE_RM                       | Generalized Mud Resistivity Selection for Recorded Mode         | Borehole    | MRES(RM)        |       |
| GTSE_RM                       | Generalized Temperature Selection for Recorded Mode             | Borehole    | TTEM(RM)        |       |
| HD_SEL                        | Hole Diameter Selection                                         | SONICSCOPE6 | BS              |       |
| JOBID                         | Job Identification                                              | DNMSESSION  | O.1042972.01IMG |       |
| MST                           | Mud Sample Temperature                                          | Borehole    | 2               | degC  |
| RMS                           | Resistivity of Mud Sample                                       | Borehole    | 0.08            | ohm.m |

|            |                                                         |             |                                                  |       |
|------------|---------------------------------------------------------|-------------|--------------------------------------------------|-------|
| SCLP       | Smart Classification Labeling Parameter                 | SONICSCOPE6 | 189                                              | us/ft |
| SHLL_MH    | Lower Labeling Limit for Shear Slowness - Monopole High | SONICSCOPE6 | 180                                              | us/ft |
| SHUL_MH    | Upper Labeling Limit for Shear Slowness - Monopole High | SONICSCOPE6 | 260                                              | us/ft |
| STCAL_MH   | STC Algorithm Option - Monopole High                    | SONICSCOPE6 | FullArray                                        |       |
| STCFL_MH   | Pre-STC Filter Length - Monopole High                   | SONICSCOPE6 | 25                                               |       |
| STCRSEL_MH | STC Sensor Selection - Monopole High                    | SONICSCOPE6 | [On, On, On, On, On, On, On, On, On, On, On, On] |       |
| STCSLL_MH  | STC Slowness Lower Limit - Monopole High                | SONICSCOPE6 | 40                                               | us/ft |
| STCSUL_MH  | STC Slowness Upper Limit - Monopole High                | SONICSCOPE6 | 240                                              | us/ft |
| STCXFH_MH  | Pre-STC Filter High Frequency Cutoff - Monopole High    | SONICSCOPE6 | 13000                                            | Hz    |
| STCXFL_MH  | Pre-STC Filter Low Frequency Cutoff - Monopole High     | SONICSCOPE6 | 9000                                             | Hz    |

Tool Control Parameters

C0019F\_Run1: Parameters

| Parameter | Description                               | Tool        | Value | Unit |
|-----------|-------------------------------------------|-------------|-------|------|
| DSIN_MH   | Digitizer Sample Interval - Monopole High | SONICSCOPE6 | 20    | us   |

Calibration Report

|             |                           |  |
|-------------|---------------------------|--|
| Company:    | JAMSTEC                   |  |
| Well:       | C0019F                    |  |
| Field:      | C0019/C0026               |  |
| Rig Name:   | The "Deep Sea D/V CHIKYU" |  |
| Prefecture: | Miyagi                    |  |
| Country:    | Japan                     |  |





MicroScope HD Resistivity Image

GR, HD Resistivity Image, Resistivity

**8.5in Recorded Mode, MD 1:500**