

geoVISION Resistivity - APWD

Gamma Ray - Resistivity - APWD

8.5in Real Time Log. True Vertical Depth 1:500

Schlumberger

Company: JAMSTEC

Well: C0019C

Field: Japan Trench - Miyagi Offshore

Rig Name: Chikyu

State: Miyagi

Country: Japan

Latitude: 37° 56' 18.198" N

Longitude: 143° 54' 47.25" E

Block:

FL: Japan Trench

FL1: X= 756 005.593 m

FL2: Y=4 202 982.312 m

Job Number: 12JAP0010

Rig Name: Chikyu

Rig Type: Drill Vessel

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

Ground Level: 6900.00 m

Acquisition Dates: 01-May-2012 — 07-May-2012

Log Interval: 6970.00(m) — 7050.00(m)

Index Types: True Vertical Depth

Index Scales: 1:500

Depth Source: Driller's Depth

Depth Sensor: DES

Print Type: Final

Spud Date: 30-Apr-2012

Other Services:

Direction and Inclination

Drilling Mechanics



Disclaimer

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Well Sketch

Driller Depth

6957.50 m



7049.44 m

Open Hole 8.5in

Borehole Size/Casing Record

Bit					
Bit Size (in)	8.5				
Top Driller (m)	6957.5				
Bottom Driller (m)	7050.0				

Operational Run Summary




Parameter (unit)	Run1				
Date Log Started	01-May-2012				
Time Log Started	13:52:41				
Date Log Finished	07-May-2012				
Time Log Finished	14:00:46				
Bit Size (in)	8.500				
Bit Start Depth (m)	6957.50				
Bit Stop Depth (m)	7050.00				
Top Log Interval (m)	6957.50				
Bottom Log Interval (m)	7049.08				
Max Hole Deviation (deg)	0.53				
Azimuth of Max Deviation (deg)	160.57				
Logging Unit Number	OLU-KC-0504				
Logging Unit Location	Comp Deck				
Recorded By	Wang Feng Yue Zhi Liang				
Witnessed By	Moe Kyaw Thu				
Service Order Number	12JAP0010				

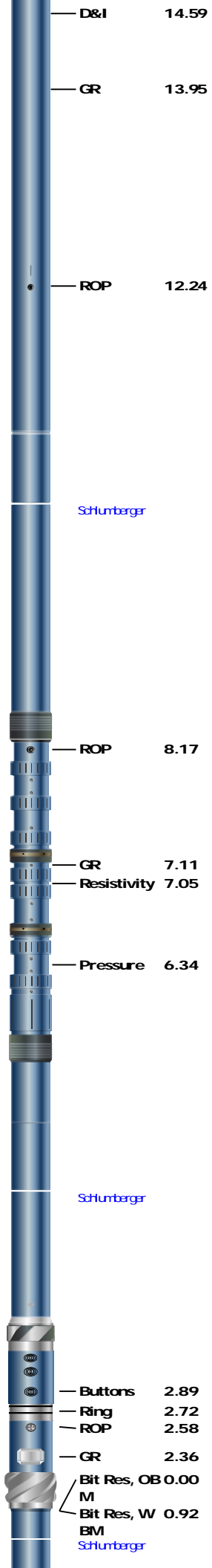
Borehole Fluids

Parameter(unit)	Run1				
Fluid Type	Water				
Fluid Name	Sea Water				
Max Recorded Temperatures (degC)	4				
Source of Sample	Active Tank				
Salinity (ppm)	38908.95				
Density (g/cm3)	1.04				
Funnel Viscosity (s)					

Fluid Loss (cm3)						
PH						
Source RMF						
RMC						
RM @ Meas Temp (ohm.m@degC)	0.29 @ 2					
RMF @ Meas Temp (ohm.m@degC)						
RMC @ Meas Temp (ohm.m@degC)						
RM @ BHT (ohm.m@degC)	0.27 @ 4					
RMF @ BHT (ohm.m@degC)						
RMC @ BHT (ohm.m@degC)						
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary

Run1: Toolstring	Run1: Remarks																																			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Equip name</td> <td style="width: 15%;">Length</td> <td style="width: 5%;"></td> <td style="width: 15%;">MP name</td> <td style="width: 10%;">Offset</td> </tr> <tr> <td>Stab: 6 3/4"</td> <td>28.83</td> <td></td> <td>Schlumberger</td> <td></td> </tr> <tr> <td colspan="5" style="text-align: center;">  </td> </tr> <tr> <td>OS050860</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5" style="height: 200px;"> <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"> <div style="width: 15%;"> NMDC: 6 3/4 27.08 SBD7365 </div> <div style="width: 15%; color: blue;"> Schlumberger </div> </div> </td> </tr> <tr> <td colspan="5" style="height: 100px;"> <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"> <div style="width: 15%;"> TELE675E9 18.96 928 </div> <div style="width: 15%; color: blue;"> Schlumberger </div> </div> </td> </tr> </table>	Equip name	Length		MP name	Offset	Stab: 6 3/4"	28.83		Schlumberger							OS050860					B					<div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"> <div style="width: 15%;"> NMDC: 6 3/4 27.08 SBD7365 </div> <div style="width: 15%; color: blue;"> Schlumberger </div> </div>					<div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 5px;"> <div style="width: 15%;"> TELE675E9 18.96 928 </div> <div style="width: 15%; color: blue;"> Schlumberger </div> </div>					<p>Data presented is Real Time data which was acquired while drilling.</p> <hr/> <p>Depth reference is driller's depth measured from Rotary Table.</p> <hr/> <p>geoVISION GR is corrected for bit size, tool size and mud weight. No potassium in mud.</p> <hr/> <p>geoVISION resistivity is environmentally corrected for bit size and mud resistivity.</p> <hr/> <p>Drill Time: 3.93 hrs</p> <hr/> <p>Pump Time: 9.66 hrs</p>
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D&I 14.59

GR 13.95

ROP 12.24

ARC6:1100 10.44

Schlumberger

ROP 8.17

GR 7.11

Resistivity 7.05

Pressure 6.34

RAB6:42045 4.67

Schlumberger

Buttons 2.89

Ring 2.72

ROP 2.58

GR 2.36

Bit Res, OB 0.00

M

Bit Res, W 0.92

BM

X/O: 6 3/4" 1.6

:604

Schlumberger

Fit Sub: 6 3/ 1.16
4":1500044
8

Bit: 8 1/2"J 0.25
F6233

Lengths are in m
Maximum Outer Diameter = 8.500 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOLS_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 :	1.79 deg		

Rig Location

Latitude :	37° 56' 18.198" N	Longitude :	143° 54' 47.25" E
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Tie In Point

Measured Depth:	0.00 m	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m	East Displacement:	0.00 m
N-S VSec Origin:	0.00 m	E-W VSec Origin:	0.00 m	Vertical Section Azimuth:	0.00 deg

D&I Inits Computed and Values Used - Run1

Geomagnetic Model :	BGGM 2011	Geomagnetic Date :	01-May-2012
Computed Location B :	46519.28 nT +/- 300.00nT	Used Location B :	46519.28 nT +/- 300.00nT
Computed Location G :	9.80 m/s2 +/- 0.02m/s2	Used Location G :	9.80 m/s2 +/- 0.02m/s2
Computed Magnetic Dip :	51.40 deg +/- 0.45deg	Used Magnetic Dip :	51.40 deg +/- 0.45deg
Computed Magnetic Dec :	-7.20 deg	Used Magnetic Dec :	-7.20 deg
Computed Total Correction :	-8.99 deg	Used Total Correction :	-8.99 deg

Survey Quality Index

4 : Long Survey failed all criteria	9 : Manual	28 : Tie-In Point
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Survey Correction Index

0 : No correction

Survey Description Index

0 : Not Flagged Survey 11 : Secondary Tie-In Point

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	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
2	6928.50	0.00	0.00	6928.50	6928.50	0.00	0.00	0.00	0.00	90.00	0.00	Other	9	0	11
3	6976.63	0.53	160.57	48.13	6976.63	-0.21	-0.21	0.07	0.22	160.57	0.33	TeleScope	4	0	0
4	7015.00	0.50	158.76	38.36	7015.00	-0.53	-0.53	0.19	0.57	160.04	0.02	TeleScope	4	0	0

Run1

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Software Version

Acquisition System	Version
MaxWell	3.0.9609.0
Application Patch	SP-20120409-3.0.9609.1919

Computation	Description	Version
RAB6GR	RAB6 Gamma Ray Computation Package for both Real-time and Recorded Mode	3.0.9609.1919
RAB6Res	RAB6 Resistivity Computation Package for both Real-time and Recorded Mode	3.0.9609.1919
ARC6Pressure	ARC6 Pressure Computation Package for both Real-time and Recorded Mode	3.0.9609.1919

Tool Elements	Description	Software Version	Firmware Version
RBEC	Electronics Chassis Assembly for RAB6-C	3.0.9609.1919	6.2

DRILLING_SURFACE	DRILLING_SURFACE	3.0.9609.1919	
APWD	APWD Sensor 25 kpsi	3.0.9609.1919	

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run1	Drilling	Down	6970.00 m	7050.00 m	01-May-2012 1:52:41 PM	07-May-2012 2:00:46 PM	

All depths are referenced to toolstring zero

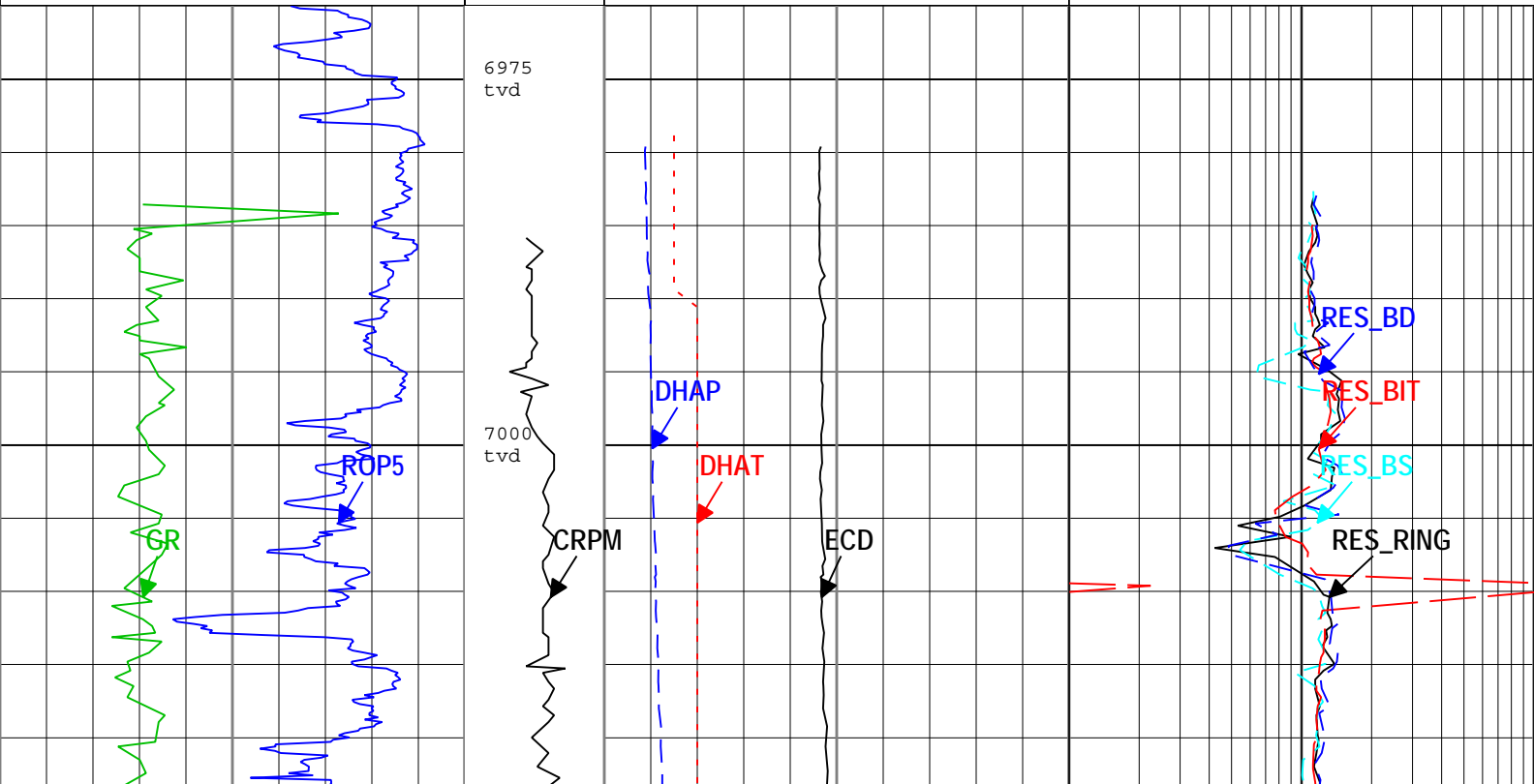
Log

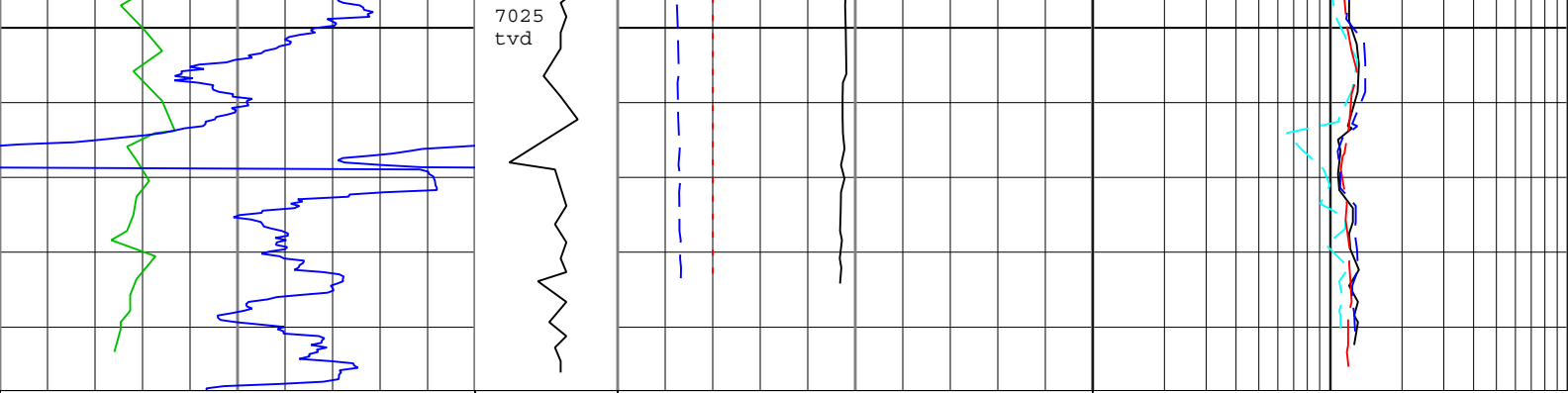
Run1: Drilling 6119F3A5-E49D-4C5E-B5C5-6F9F2E48109B

Description: Format: Log (JFAST RT GVR+APWD Digital TVD) Index Scale: 1:500 Index Unit: m Index Type: TVD Creation Date: 14-May-2012 14:55:48

Channel	Source	Sampling
CRPM	TELE675:TELE675	6in - RT
DHAP	ARC6:ARC6:APWD	6in - RT
DHAT	ARC6:ARC6	6in - RT
ECD	ARC6:ARC6:APWD	6in - RT
GR	RAB6:RAB6:RBEC	6in - RT
RES_BD	RAB6:RAB6:RBEC	6in - RT
RES_BIT	RAB6:RAB6:RBEC	6in - RT
RES_BS	RAB6:RAB6:RBEC	6in - RT
RES_RING	RAB6:RAB6:RBEC	6in - RT
ROP5	DRILLING_SURFACE	6in - RT

Gamma Ray (GR) RAB6 RT		Collar Rotational Speed (CRPM) TELE675 RT	Equivalent Circulating Density (ECD) ARC6 RT		Ring Resistivity (RES_RING) RAB6 RT	
0	150		1	1.1	0.1	10
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		0	Downhole Annulus Temperature (DHAT) ARC6 RT		Shallow Button Resistivity (RES_BS) RAB6 RT	
0			0		0.1	
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		0	Downhole Annulus Pressure (DHAP) ARC6 RT		Bit Resistivity (RES_BIT) RAB6 RT	
100			70000		0.1	
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		0	Downhole Annulus Pressure (DHAP) ARC6 RT		Deep Button Resistivity (RES_BD) RAB6 RT	
0			70000		0.1	





Gamma Ray (GR) RAB6 RT 0 gAPI 150	Collar Rotational Speed (CRPM) TELE675 RT 0 c/min 200	Equivalent Circulating Density (ECD) ARC6 RT 1 g/cm3 1.1	Ring Resistivity (RES_RING) RAB6 RT 0.1 ohm.m 10
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT 100 m/h 0		Downhole Annulus Temperature (DHAT) ARC6 RT 0 degC 20	Shallow Button Resistivity (RES_BS) RAB6 RT 0.1 ohm.m 10
		Downhole Annulus Pressure (DHAP) ARC6 RT 70000 kPa 85000	Bit Resistivity (RES_BIT) RAB6 RT 0.1 ohm.m 10
			Deep Button Resistivity (RES_BD) RAB6 RT 0.1 ohm.m 10

Description: Format: Log (JFAST RT GVR+APWD Digital TVD) Index Scale: 1:500 Index Unit: m Index Type: TVD Creation Date: 14-May-2012 14:55:48


Channel Processing Parameters

Parameter	Description	ToolPath	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHT	Bottom Hole Temperature	Borehole	4	degC
BS	Bit Size	COMPLETION	8.5	in
DEPTH_SEL	Depth Selection Parameter		Driller's Depth	
DFD	Drilling Fluid Density	Borehole	1.04	g/cm3
DFT	Drilling Fluid Type	Borehole	Water	
FLEV	Depth of Drilling Fluid Level to LMF (Log Measured From)	Borehole	28.5	m
GGRD	Geothermal Gradient	Borehole	12.5	degC/km
GRSE_RT	Generalized Mud Resistivity Selection for Realtime Mode	Borehole	REMS	
GTSE_RT	Generalized Temperature Selection for Realtime Mode	Borehole	GTEM_GRDBOTTOM(RT)	
MST	Mud Sample Temperature	Borehole	2	degC
RHO_SEAWATER	Density of the Sea Water	Borehole	1.04	g/cm3
RMS	Resistivity of Mud Sample	Borehole	0.29	ohm.m
SF_FLAG	Mud Return to Sea Floor (No Riser)?	Borehole	No	
SHT	Surface Hole Temperature	Borehole	2	degC
TD	Total Measured Depth	Borehole	7050	m

Tool Control Parameters

Parameter	Description	ToolPath	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom		0.4	m

Company: JAMSTEC
Well: C0019C
Field: Japan Trench - Miyagi Offshore
Rig Name: Chikyu
State: Miyagi



Country:

Japan



Schlumberger

geoVISION Resistivity - APWD

Gamma Ray - Resistivity - APWD

8.5in Real Time Log. True Vertical Depth 1:500