

MicroScope HD Resistivity Image

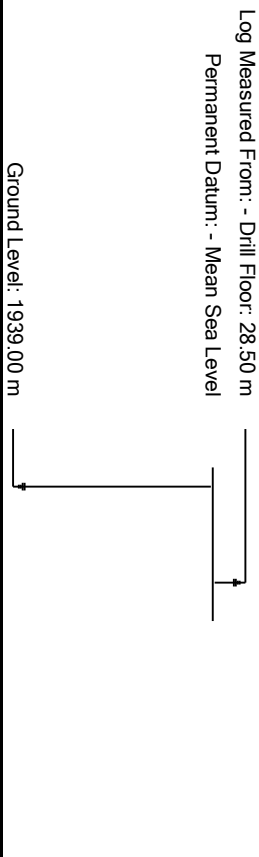
Gamma Ray - Resistivity - HD Resistivity Image

Recorded Mode Log, TVDSS 1:500



Company:	JAMSTEC	UWID:	D/V Chiky
Well:	C0002S	Rig Name:	Drill ship
Field:	C0002		
Rig Name:	D/V Chiky		
State:	Wakayama		
Country:	Japan		

Latitude:	33° 18' 3.042" N		
Longitude:	136° 38' 12.174" E		
Block:			
FL:	Pacific Ocean		
FL1:	X=652382.39		
FL2:	Y=3685843.62		



Acquisition Dates:	05-Feb-2019 -- 08-Feb-2019	Other Services:	
Log Interval:	4787.13(m)TVD - 4886.34(m)TVD	Direction and Inclination	
Index Types:	SSTVD	seismic/VISION	
Index Scales:	1:500	Vortex + Xceed	
Depth Source:	Driller's Depth		
Depth Sensor:	DES		
Print Type:	Final		
Spud Date:	26-Oct-2018		

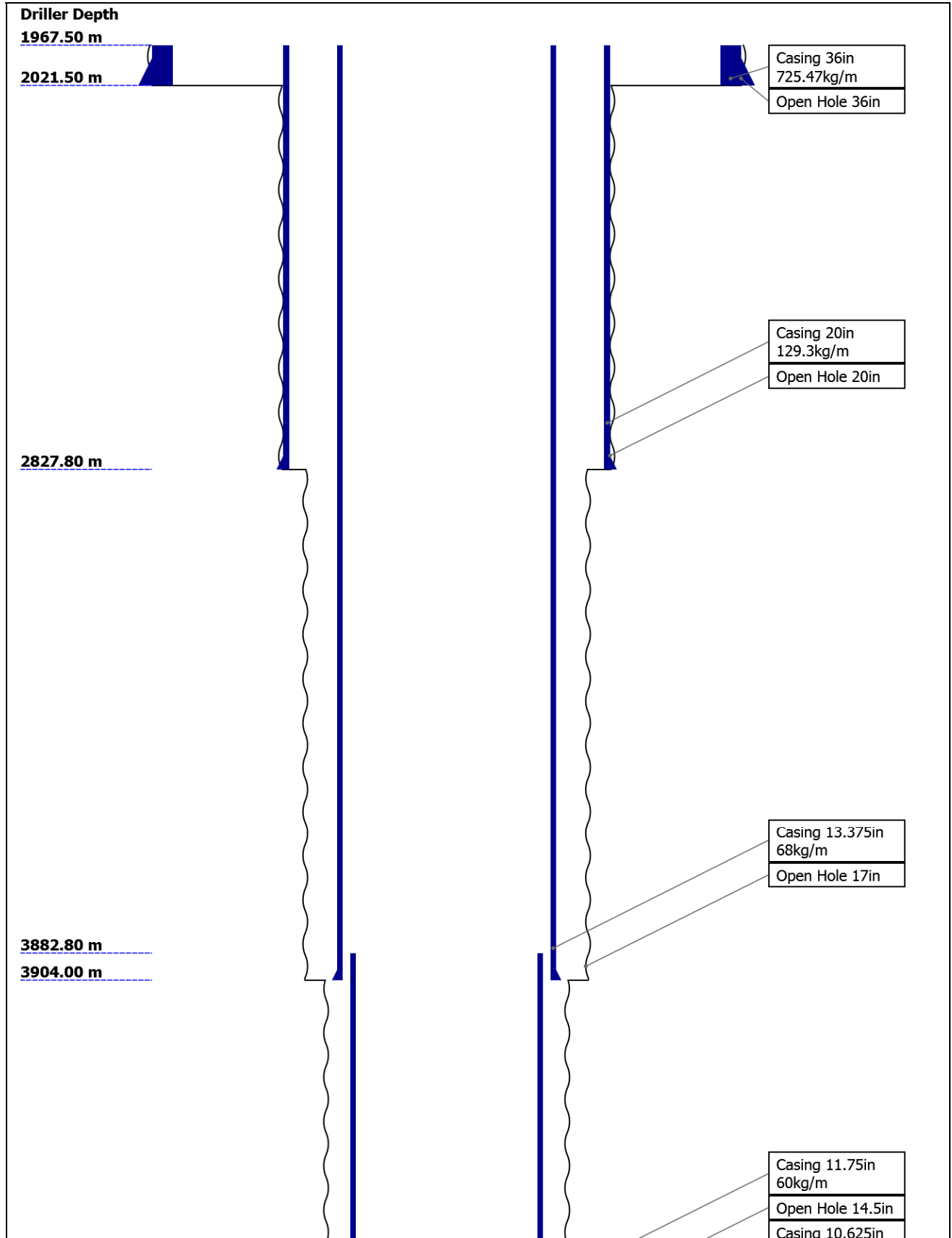
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Well Sketch



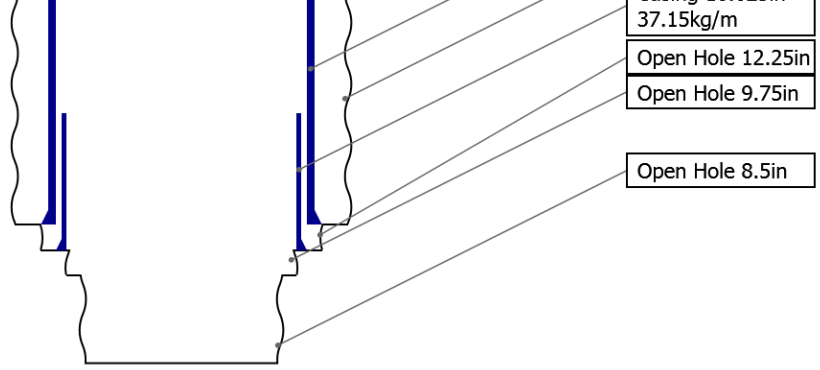
4603.50 m

4756.41 m

4770.22 m

4788.23 m

4901.00 m



Borehole Size/Casing Record

Bit						
Bit Size (in)	36	20	17	14.5	12.25	9.75
Top Driller (m)	1967.5	2021.5	2827.8	3904	4756.41	4770.22
Bottom Driller (m)	2021.5	2827.8	3904	4756.41	4770.22	4788.23
Casing						
Size (in)	36	20	13.375	11.75	10.625	
Weight (kg/m)	725.47	129.3	68	60	37.15	
Inner Diameter (in)	33.429	19.188	12.734	11.104	10.186	
Grade	N/A	N/A	N/A	N/A	N/A	
Top Driller (m)	1967.5	1967.5	1967.5	3882.8	4603.5	
Bottom Driller (m)	2021.5	2827.8	3904	4756.41	4770.22	
Bit						
Bit Size (in)	8.5					
Top Driller (m)	4788.23					
Bottom Driller (m)	4901					
Casing						
Size						
Weight						
Inner Diameter						
Grade						
Top Driller						
Bottom Driller						

Operational Run Summary

Parameter (unit)	Run 2				
Date Log Started	05-Feb-2019				
Time Log Started	08:18:26				
Date Log Finished	08-Feb-2019				
Time Log Finished	23:31:48				
Bit Size (in)	8.500				
Bit Start Depth (m)	4788.92				
Bit Stop Depth (m)	4901.00				
Top Log Interval (m)	4788.92				

Bottom Log Interval (m)	4888.19					
Max Hole Deviation (deg)	2.89					
Azimuth of Max Deviation (deg)	257.63					
Logging Unit Number	OLU-MB8054					
Logging Unit Location	Zone2					
Recorded By	SMoriyama/Zhou Cai					
Witnessed By	Y.Sanada/Y.Kido					
Service Order Number	18JAP0007					

Borehole Fluids

Parameter(unit)	Run 2					
Fluid Type	Water					
Max Recorded Temperatures (degC)	37					
Source of Sample	Active Tank					
Salinity (ppm)	114670.1					
Density (g/cm3)	1.38					
Funnel Viscosity (s)	59					
Fluid Loss (cm3)	6.7					
PH	10.8					
Source RMF	Pressed					
RMC	Pressed					
RM @ Meas Temp (ohm.m@degC)	0.07 @ 21.2					
RMF @ Meas Temp (ohm.m@degC)	0.05 @ 21.5					
RMC @ Meas Temp (ohm.m@degC)	0.07 @ 21.4					
RM @ BHT (ohm.m@degC)	0.06 @ 30					
RMF @ BHT (ohm.m@degC)	0.04 @ 30					
RMC @ BHT (ohm.m@degC)	0.06 @ 30					
Total Solid (%)	18					
High Gravity Solids (%)						

Remarks and Equipment Summary

Run 2: Toolstring				Run 2: Remarks		
Equip name X/O: 6 3/4"[2]:74 ET002-6/02	Length 58.69	MP name Schlumberger	Offset	Depth Reference is driller's depth measured from Rotary Table.		
seismicVISION675 :42835	58.2	Schlumberger		Data presented is Recorded Mode data which was acquired while drilling.		
				MicroScope record rate is depending on RPM.APWD record rate is 10s.		
				arcVISION GR is environmentally corrected for bit size, mud weight, and potassium content in the mud (1.47% in Run3).		
				Reason of POOH: BHA failure		
			55.89	Drilling Time: 47.40 hrs		
				Pumping Time: 57.34 hrs		
			54.97	Connection in Lower CLink was twisted off and the lower part than this was left in hole.		

SONICSCOPE6:H03 53.74
42

Schlumberger



— ROP 50.84

— Delta-T 49.63



TELE675-IWOB:B1 43.79
755

Schlumberger

— D&I 39.44

● — ROP 37.09

● — IWOB 36.07

ARC6:1805 35.24 Schlumberger

ROP 33.03

GR 31.96
Resistivity 31.91

Pressure 31.2

MI6:708 29.57 Schlumberger

ROP 27.65

Resistivity 26.71

UHRI_Bt1 25.82
UHRI_Bt2 25.81
UHRI_Bt3 25.8
UHRI_Bt4 25.79
NBI 25.79
UHRI 25.79
UHRI_Bt5 25.78
UHRI_Bt6 25.77
UHRI_Bt7 25.77
UHRI_Bt8 25.76
Bit Res, OBM 0.00
Bit Res, WBM 12.81

CLNK675:30228 24.41

Fit Sub: 6 3/4":TH0 21.87 Schlumberger
915936-1

Motor: 6 3/4":6150 21.16 Schlumberger
778



Filtr Sub: 6 3/4":US 12.8
KW867307-1

Schlumberger

X/O: 6 3/4"[1]:LT 11.59
GP622

Schlumberger

CLNKL675:33751 10.97

Schlumberger

PDXCEED_675:314 8.03
36

Schlumberger

D&I 4.16

ROP 3.37

Bit: 8 1/2" 0.26

Smith

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: 4772.00 m Inclination: 1.23 deg Azimuth: 122.08 deg
 True Vertical Depth: 4770.21 m North Displacement: 3.67 m East Displacement: 47.20 m
 N-S VSec Origin: 3.67 m E/W VSec Origin: 47.20 m Vertical Section Azimuth: 160.00 deg

D&I Inits Computed and Values Used - Run 2

Geomagnetic Model : HDGM 2018 Geomagnetic Date : 05-Feb-2019
 Computed Location B : 46172.51 nT +/- 300.00nT Used Location B : 46172.51 nT +/- 300.00nT
 Computed Location G : 998.92 mgn +/- 2.50mgn Used Location G : 998.92 mgn +/- 2.50mgn
 Computed Magnetic Dip : 47.03 deg +/- 0.45deg Used Magnetic Dip : 47.03 deg +/- 0.45deg
 Computed Magnetic Dec : -7.17 deg Used Magnetic Dec : -7.17 deg
 Computed Total Correction : -8.07 deg Used Total Correction : -8.07 deg

Survey Quality Index

9 : Manual 28 : Tie-In Point

Survey Correction Index

0 : No correction

Survey Description Index

0 : Not Flagged Survey 7 : Projection to Bit

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	4772.00	1.23	122.08	----	4770.21	0.00	3.67	47.20	47.34	85.55	0.00	TIP	28	0	0
2	4786.06	1.13	256.75	14.06	4784.27	0.10	3.56	47.19	47.33	85.69	4.65	SingleShot	9	0	0
3	4794.51	0.80	37.26	8.45	4792.72	0.06	3.59	47.15	47.28	85.65	6.46	SingleShot	9	0	0
4	4804.29	0.81	29.65	9.78	4802.50	-0.02	3.70	47.22	47.37	85.52	0.33	SingleShot	9	0	0
5	4809.68	1.10	31.96	5.39	4807.89	-0.08	3.78	47.27	47.42	85.43	1.63	SingleShot	9	0	0
6	4820.42	1.32	52.44	10.74	4818.62	-0.18	3.94	47.42	47.59	85.25	1.35	SingleShot	9	0	0
7	4829.98	1.42	56.81	9.56	4828.18	-0.24	4.07	47.61	47.78	85.11	0.45	SingleShot	9	0	0
8	4839.14	0.58	348.19	9.16	4837.34	-0.31	4.18	47.69	47.88	84.99	4.34	SingleShot	9	0	0
9	4846.61	1.57	281.65	7.47	4844.81	-0.40	4.24	47.59	47.77	84.91	5.79	SingleShot	9	0	0
10	4859.60	2.89	257.63	12.99	4857.79	-0.54	4.20	47.09	47.28	84.90	3.67	SingleShot	9	0	0
11	4901.00	2.89	257.63	41.40	4899.14	-0.82	3.76	45.05	45.21	85.23	0.00	Other	9	0	7

Run 2

Run2_LWD Log

Software Version

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

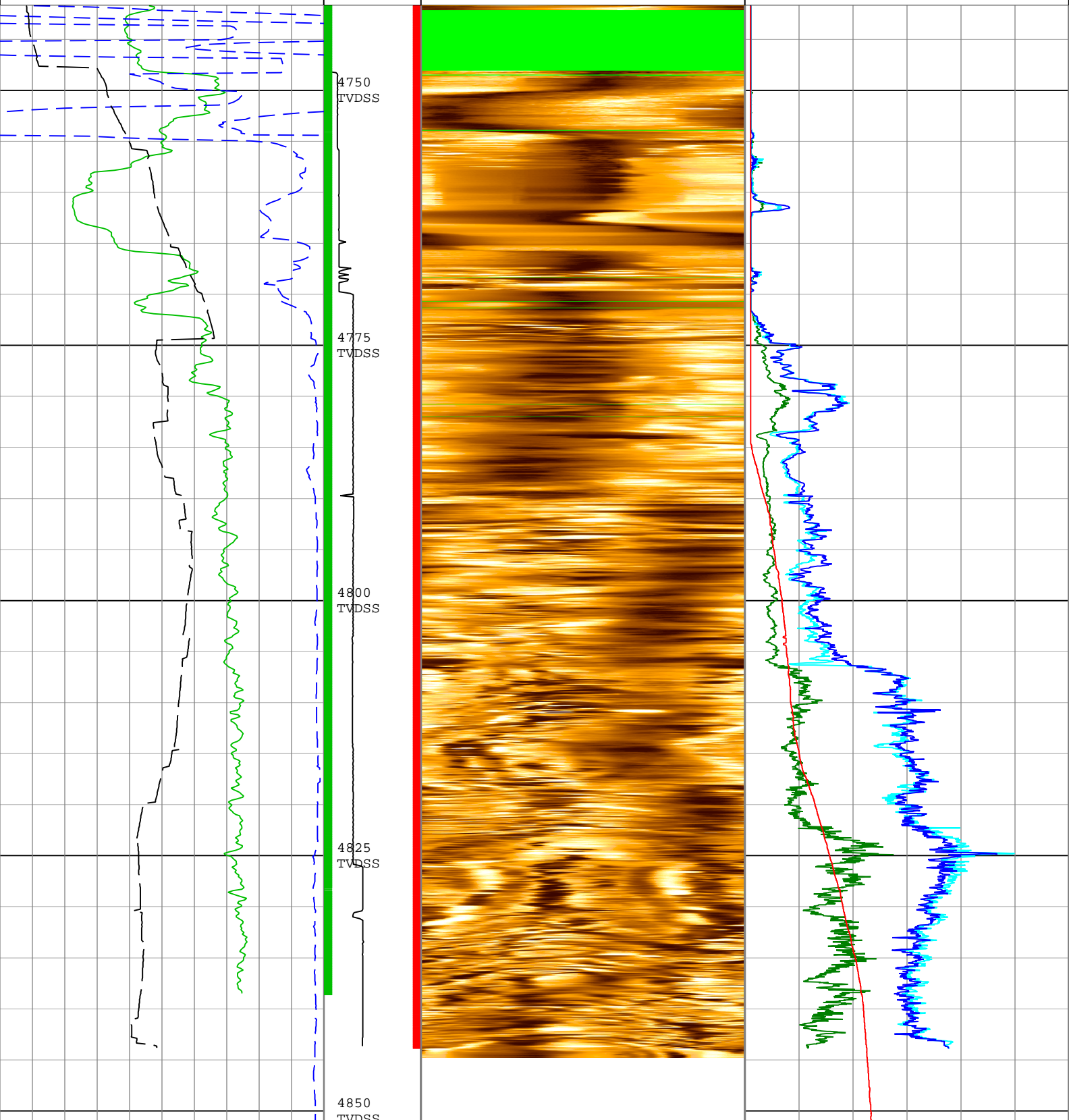
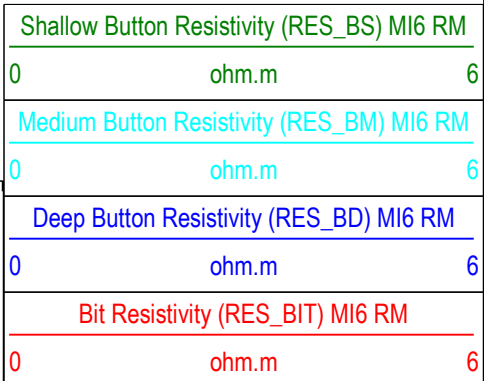
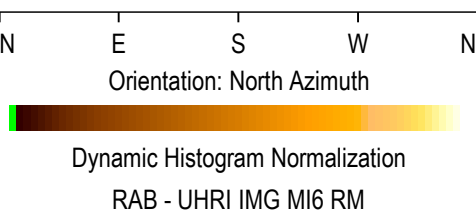
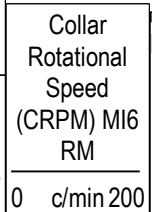
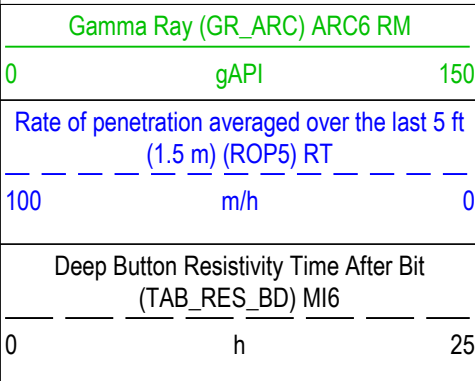
Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run 2	Drilling	Down	59.99 m	4900.93 m	05-Feb-2019 8:18:26 AM	08-Feb-2019 11:31:48 PM	No

All depths are referenced to toolstring zero

Log

Company: JAMSTEC Well: C0002S
Run 2: Drilling: S005



RESAIRCAL - Resistivity: Air

Master (Time Frame File): 09:57:26 15-Nov-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Attenuation T1 at 2 MHz	dB	Master	8.500	6.500	8.275	10.500	
Attenuation T2 at 2 MHz	dB	Master	6.500	4.500	6.730	8.500	
Attenuation T3 at 2 MHz	dB	Master	4.500	2.500	4.874	6.500	
Attenuation T4 at 2 MHz	dB	Master	4.600	2.600	4.625	6.600	
Attenuation T5 at 2 MHz	dB	Master	3.600	1.600	3.419	5.600	
Phase Shift T1 at 2 MHz	deg	Master	0.100	-3.900	1.048	4.100	
Phase Shift T2 at 2 MHz	deg	Master	0.100	-3.900	-1.065	4.100	
Phase Shift T3 at 2 MHz	deg	Master	0.100	-3.900	0.993	4.100	
Phase Shift T4 at 2 MHz	deg	Master	0.100	-3.900	-1.095	4.100	
Phase Shift T5 at 2 MHz	deg	Master	0.100	-3.900	1.001	4.100	
Attenuation T1 at 400 KHz	dB	Master	8.500	6.500	8.324	10.500	
Attenuation T2 at 400 KHz	dB	Master	6.500	4.500	6.691	8.500	
Attenuation T3 at 400 KHz	dB	Master	4.500	2.500	4.919	6.500	
Attenuation T4 at 400 KHz	dB	Master	4.600	2.600	4.580	6.600	
Attenuation T5 at 400 KHz	dB	Master	3.600	1.600	3.477	5.600	
Phase Shift T1 at 400 KHz	deg	Master	0.100	-3.900	0.501	4.100	
Phase Shift T2 at 400 KHz	deg	Master	0.100	-3.900	-0.470	4.100	
Phase Shift T3 at 400 KHz	deg	Master	0.100	-3.900	0.493	4.100	
Phase Shift T4 at 400 KHz	deg	Master	0.100	-3.900	-0.501	4.100	
Phase Shift T5 at 400 KHz	deg	Master	0.100	-3.900	0.480	4.100	

GRGAIN - Gamma Ray: Blanket

Master (Time Frame File): 15:06:52 14-Nov-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Calibration Gain		Master	1.000	0.580	1.081	1.250	

Company: JAMSTEC
Well: C0002S
Field: C0002
Rig Name: D/V Chikyu
State: Wakayama
Country: Japan



MicroScope HD Resistivity Image

Gamma Ray - Resistivity - HD Resistivity Image

Recorded Mode Log, TVDSS 1:500