

geoVISION Resistivity Image - APWD
Gamma Ray - Resistivity - Image - APWD
8.5in Recorded Mode Log. Measured Depth 1:500



Company: JAMSTEC

Well: C0019B

Field: Japan Trench - Miyagi Offshore

Rig Name: Chikyu

State: Miyagi

Country: Japan

Latitude: 37° 56' 20.2" N **Job Number:** 12JAP0004

Longitude: 143° 54' 48.6" E **Rig Name:** Chikyu

Block: **Rig Type:** Drill Vessel

FL1: Japan Trench

FL1: X= 756 050.70 m

FL2: Y=4 202 595.11 m

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



Ground Level: 6889.50 m

Acquisition Dates: 21-Apr-2012 — 26-Apr-2012

Log Interval: 6910.00(m) — 7768.50(m)

Index Types: Measured Depth

Index Scales: 1:500

Depth Source: Driller's Depth

Depth Sensor: DES

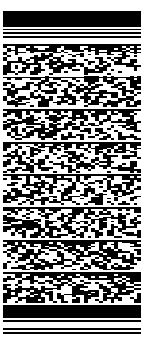
Print Type: Final

Spud Date: 21-Apr-2012

Other Services:

Direction and Inclination

Drilling Mechanics



Disclaimer

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11.3 Log (JFAST RM GVR+APWD MD Digital)

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12.1 Integration Summary

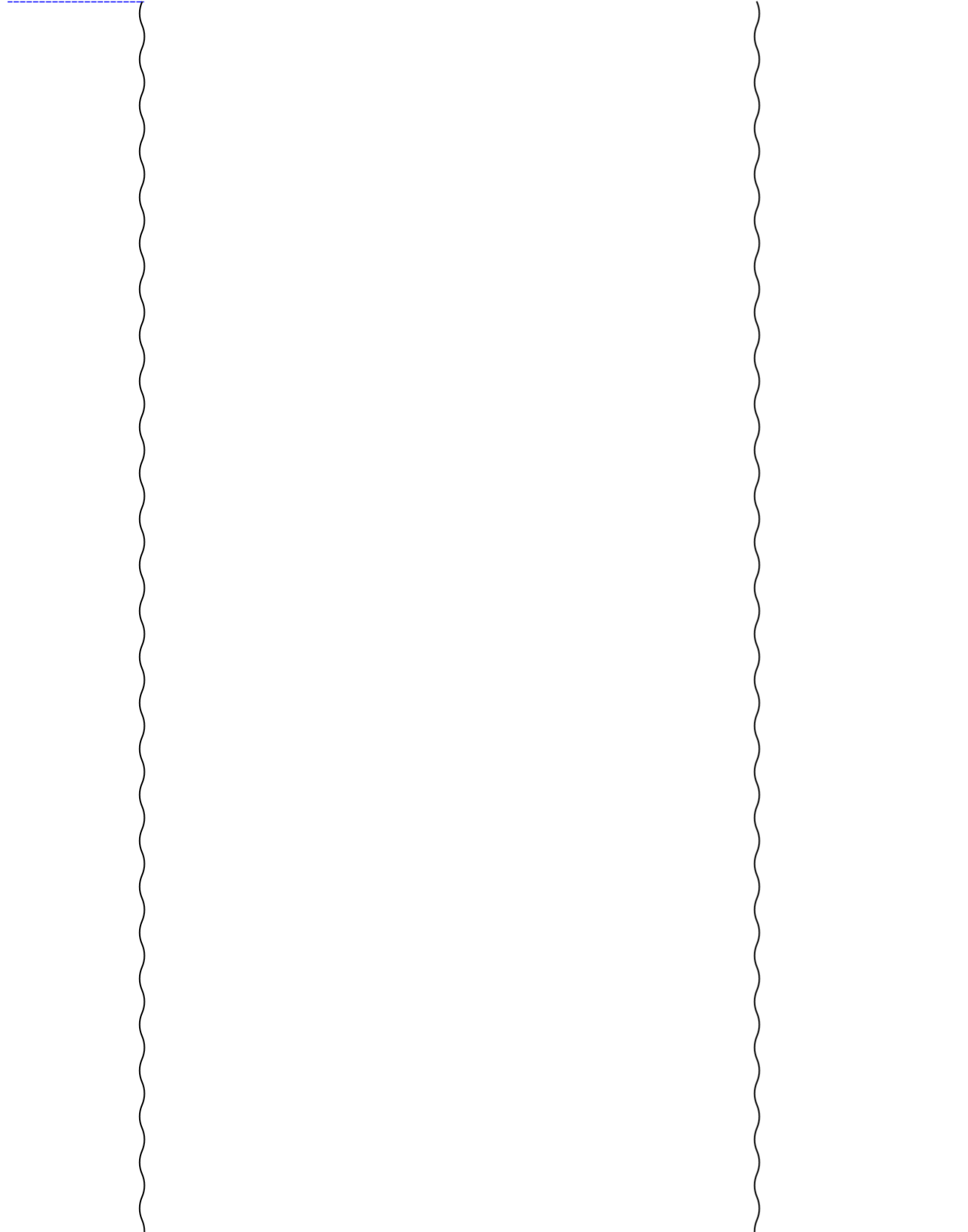
12.2 Composite Summary

12.3 Log (JFAST RM GVR+APWD MD Digital)

Well Sketch

Driller Depth

6918.00 m



7768.50 m

Open Hole 8.5in

Borehole Size/Casing Record

Bit					
Bit Size (in)	8.5				
Top Driller (m)	6918				
Bottom Driller (m)	7768.5				

Operational Run Summary

Parameter (unit)	Run1				
Date Log Started	21-Apr-2012				
Time Log Started	17:04:57				
Date Log Finished	26-Apr-2012				
Time Log Finished	20:21:59				
Bit Size (in)	8.500				
Bit Start Depth (m)	6918.00				
Bit Stop Depth (m)	7768.50				
Top Log Interval (m)	6918.00				
Bottom Log Interval (m)	7767.58				
Max Hole Deviation (deg)	8.27				
Azimuth of Max Deviation (deg)	355.55				
Logging Unit Number	OLU-KC-504				
Logging Unit Location	Comp Deck				
Recorded By	Wang Feng Chen Fei Fei Yue Zhi Liang				
Witnessed By	Yukari Kido Yoshi Sanada				
Service Order Number	12JAP0004				

Borehole Fluids

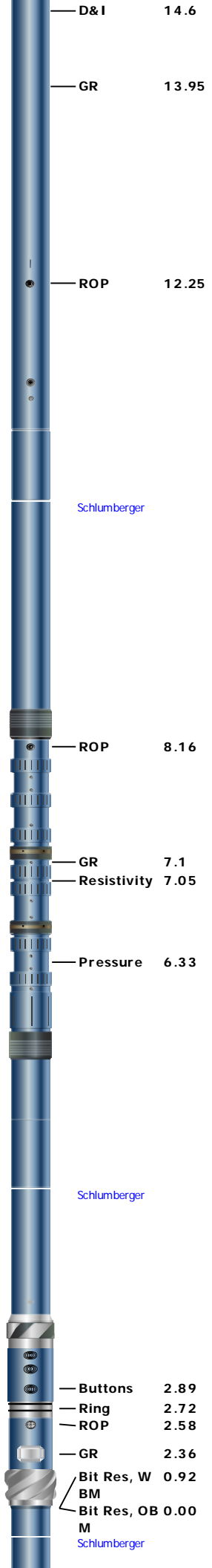
Parameter(unit)	Run1				
Fluid Type	Water				
Max Recorded Temperatures (degC)	12				
Source of Sample	Active Tank				
Salinity (ppm)	38908.95				
Density (g/cm3)	1.04				
Funnel Viscosity (s)					

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)	0.2 @ 12					
RMF @ BHT (ohm.m@degC)						
RMC @ BHT (ohm.m@degC)						
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary

Run1: Toolstring				Run1: Remarks
Equip name	Length	MP name	Offset	Data presented is Recorded Mode data which was acquired while drilling. Depth reference is driller's depth measured from Rotary Table. geoVISION record rate is 10s, arcVISION record rate is 10s. geoVISION GR is corrected for bit size, tool size and mud weight. No potassium in mud. geoVISION resistivity is environmentally corrected for bit size and mud resistivity. Drill Time: 31.24 hrs Pump Time: 66.20 hrs
Stab: 6 3/4"	28.75	Schlumberger		
:OSS050860				
B				
NMDC: 6 3/4"	27.00	Schlumberger		
":SBD7365				
TELE67548	18.88	Schlumberger		
376				





D&I 14.6

GR 13.95

ROP 12.25

ARC6:1100 10.44

Schlumberger

ROP 8.16

GR 7.1
Resistivity 7.05

Pressure 6.33

RAB6:42045 4.67

Schlumberger

Buttons 2.89
Ring 2.72
ROP 2.58

GR 2.36

Bit Res, W 0.92
BM
Bit Res, OB 0.00

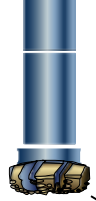
M Schlumberger

X/O: 6 3/4" 1.6

:604

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

Bit: 8 1/2":J 0.25
F6234



TOOL_ZERO

Lengths are in m

Maximum Outer Diameter = 8.500 in

Line: Sensor Location, V 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 : 1.79 deg

Rig Location

Latitude : 37° 56' 20.2" N Longitude : 143° 54' 48.6" E

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 : 22-Apr-2012
 Computed Location B : 46518.57 nT +/- 300.00nT Used Location B : 46518.57 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

2 : Long Survey failed mag criteria 4 : Long Survey failed all criteria 9 : Manual
 28 : Tie-In Point

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	6918.00	0.00	0.00	6918.00	6918.00	0.00	0.00	0.00	0.00	90.00	0.00	Other	9	0	11
3	6938.55	2.22	312.85	20.55	6938.54	0.27	0.27	-0.29	0.40	312.85	3.24	TeleScope	4	0	0
4	6966.78	1.82	332.41	28.23	6966.76	1.04	1.04	-0.90	1.37	319.11	0.84	TeleScope	4	0	0
5	6995.50	1.85	345.24	28.72	6995.46	1.89	1.89	-1.23	2.25	326.99	0.43	TeleScope	4	0	0
6	7022.98	1.76	339.12	27.48	7022.93	2.71	2.71	-1.49	3.09	331.20	0.23	TeleScope	4	0	0
7	7051.92	1.77	333.90	28.94	7051.86	3.53	3.53	-1.85	3.98	332.38	0.17	TeleScope	2	0	0
8	7080.68	1.62	338.38	28.76	7080.60	4.30	4.30	-2.19	4.83	333.03	0.21	TeleScope	4	0	0
9	7109.40	1.86	338.50	28.72	7109.31	5.12	5.12	-2.51	5.70	333.85	0.25	TeleScope	2	0	0
10	7136.77	1.91	341.57	27.36	7136.66	5.96	5.96	-2.82	6.60	334.70	0.12	TeleScope	4	0	0
11	7165.72	2.17	340.63	28.95	7165.59	6.94	6.94	-3.15	7.62	335.56	0.26	TeleScope	4	0	0
12	7175.39	2.05	341.72	9.68	7175.26	7.28	7.28	-3.27	7.98	335.81	0.37	TeleScope	4	0	0
13	7203.75	1.99	344.25	28.35	7203.60	8.23	8.23	-3.56	8.97	336.61	0.11	TeleScope	4	0	0
14	7232.01	1.99	347.59	28.26	7231.84	9.18	9.18	-3.80	9.94	337.52	0.12	TeleScope	4	0	0
15	7260.73	2.07	345.02	28.72	7260.54	10.17	10.17	-4.04	10.95	338.33	0.13	TeleScope	2	0	0
16	7288.34	2.04	349.09	27.61	7288.14	11.14	11.14	-4.26	11.93	339.05	0.16	TeleScope	4	0	0
17	7320.29	2.17	352.55	31.95	7320.07	12.30	12.30	-4.45	13.08	340.11	0.17	TeleScope	4	0	0
18	7352.73	2.49	346.92	32.44	7352.48	13.59	13.59	-4.69	14.38	340.97	0.36	TeleScope	4	0	0
19	7381.26	2.64	347.72	28.53	7380.98	14.84	14.84	-4.97	15.64	341.48	0.17	TeleScope	2	0	0
20	7409.62	2.92	349.68	28.36	7409.31	16.18	16.18	-5.24	17.01	342.07	0.31	TeleScope	4	0	0

21	7438.31	3.22	349.53	28.68	7437.96	17.69	17.69	-5.51	18.53	342.69	0.32	TeleScope	4	0	0
22	7466.67	3.65	347.08	28.36	7466.26	19.36	19.36	-5.86	20.23	343.16	0.48	TeleScope	2	0	0
23	7476.58	3.90	351.72	9.91	7476.15	20.00	20.00	-5.98	20.87	343.35	1.20	TeleScope	4	0	0
24	7504.90	4.22	351.85	28.32	7504.40	21.98	21.98	-6.27	22.86	344.09	0.33	TeleScope	4	0	0
25	7532.49	4.65	352.75	27.60	7531.92	24.10	24.10	-6.55	24.97	344.79	0.48	TeleScope	4	0	0
26	7561.25	4.92	355.71	28.76	7560.58	26.48	26.48	-6.79	27.34	345.62	0.39	TeleScope	2	0	0
27	7588.98	5.48	352.73	27.73	7588.19	28.98	28.98	-7.05	29.83	346.33	0.67	TeleScope	2	0	0
28	7621.71	5.96	355.13	32.73	7620.75	32.23	32.23	-7.39	33.06	347.09	0.49	TeleScope	4	0	0
29	7627.56	6.03	356.23	5.85	7626.57	32.83	32.83	-7.43	33.67	347.24	0.69	TeleScope	4	0	0
30	7656.14	6.31	352.35	28.58	7654.99	35.89	35.89	-7.74	36.72	347.83	0.53	TeleScope	4	0	0
31	7684.97	7.11	354.55	28.83	7683.62	39.24	39.24	-8.12	40.07	348.30	0.87	TeleScope	2	0	0
32	7713.15	7.62	354.47	28.18	7711.57	42.83	42.83	-8.47	43.66	348.82	0.55	TeleScope	4	0	0
33	7741.26	8.27	355.55	28.11	7739.41	46.70	46.70	-8.80	47.52	349.32	0.71	TeleScope	2	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	3.0.9609.1373
RAB6Res	RAB6 Resistivity Computation Package for both Real-time and Recorded Mode	3.0.9609.1373
ARC6Pressure	ARC6 Pressure Computation Package for both Real-time and Recorded Mode	3.0.9609.0

Tool Elements	Description	Software Version	Firmware Version
RBEC	Electronics Chassis Assembly for RAB6-C	3.0.9609.1373	V8.5B
DRILLING_SURFACE	DRILLING_SURFACE	3.0.9609.1373	
APWD	APWD Sensor 25 kpsi	3.0.9609.0	V9.5B

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run1	Drilling	Down	6899.71 m	7768.31 m	21-Apr-2012 5:04:57 PM	26-Apr-2012 8:21:59 PM	true

All depths are referenced to toolstring zero

Log

Run1: Drilling 0171927D-C22B-449A-BF7F-37C8F1B668EB

Description: GVR Resistivity, Deep Button Image Format: Log (JFAST RM GVR+APWD MD Digital) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 11-May-2012 18:06:39

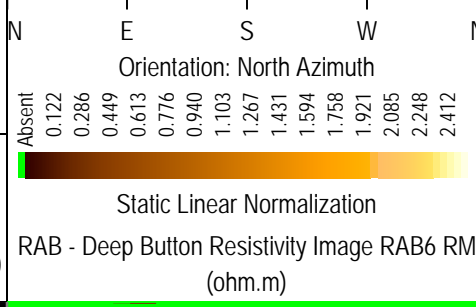
Channel	Source	Sampling
DHAP	ARC6:ARC6	6in - RM
DHAT	ARC6:ARC6	6in - RM
ECD	ARC6:ARC6:APWD	6in - RM
GR	RAB6:RAB6:RBEC	6in - RM
RES_BD	RAB6:RAB6:RBEC	1.2in - RM
RES_BIT	RAB6:RAB6:RBEC	1.2in - RM
RES_BM	RAB6:RAB6:RBEC	1.2in - RM
RES_BS	RAB6:RAB6:RBEC	1.2in - RM
RES_RING	RAB6:RAB6:RBEC	1.2in - RM
ROP5	DRILLING_SURFACE	6in - RT
RPM	RAB6:RAB6	1.2in - RM

RES_RING - Ring Resistivity RAB6 RM

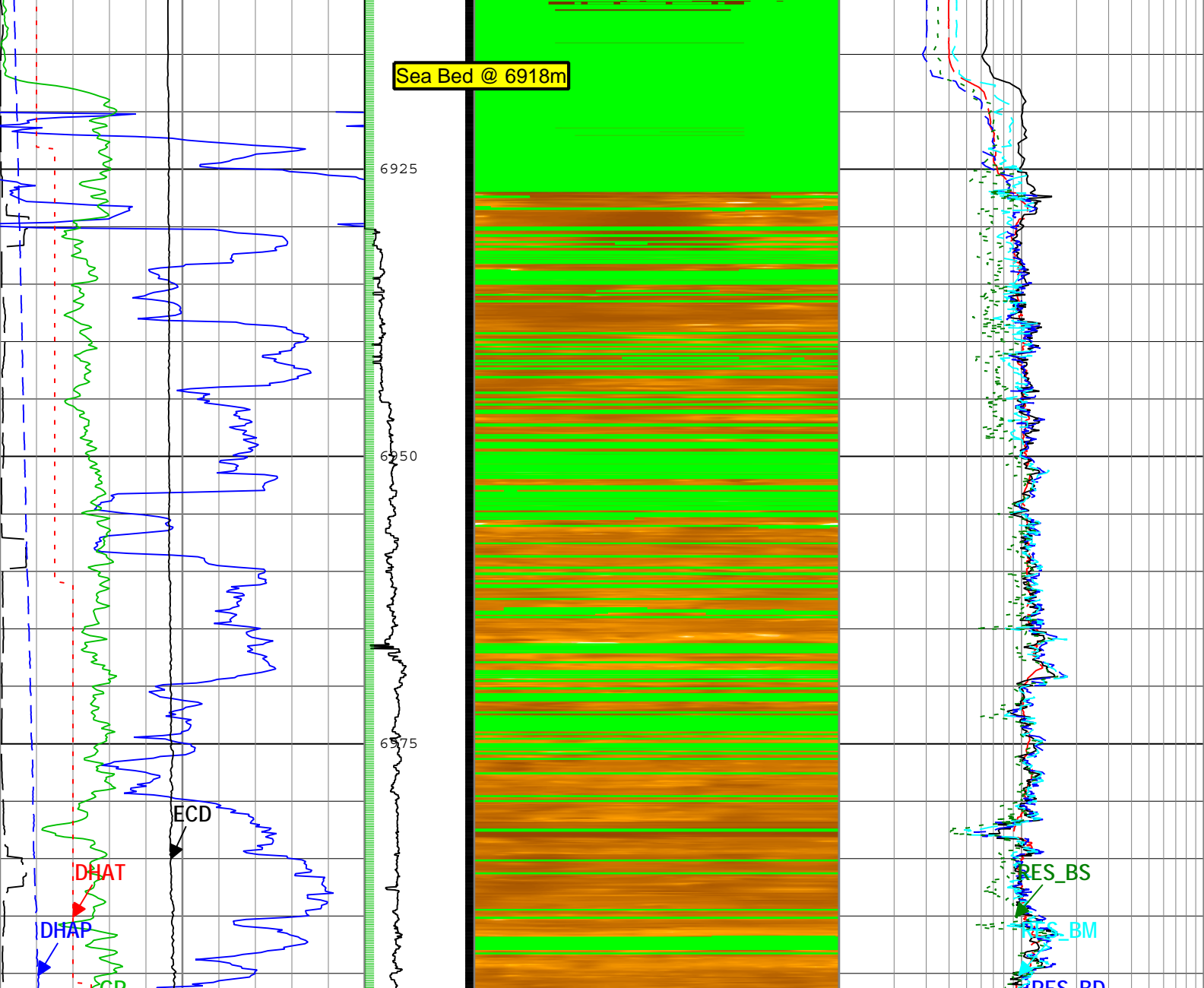
GR - Gamma Ray RAB6 RM

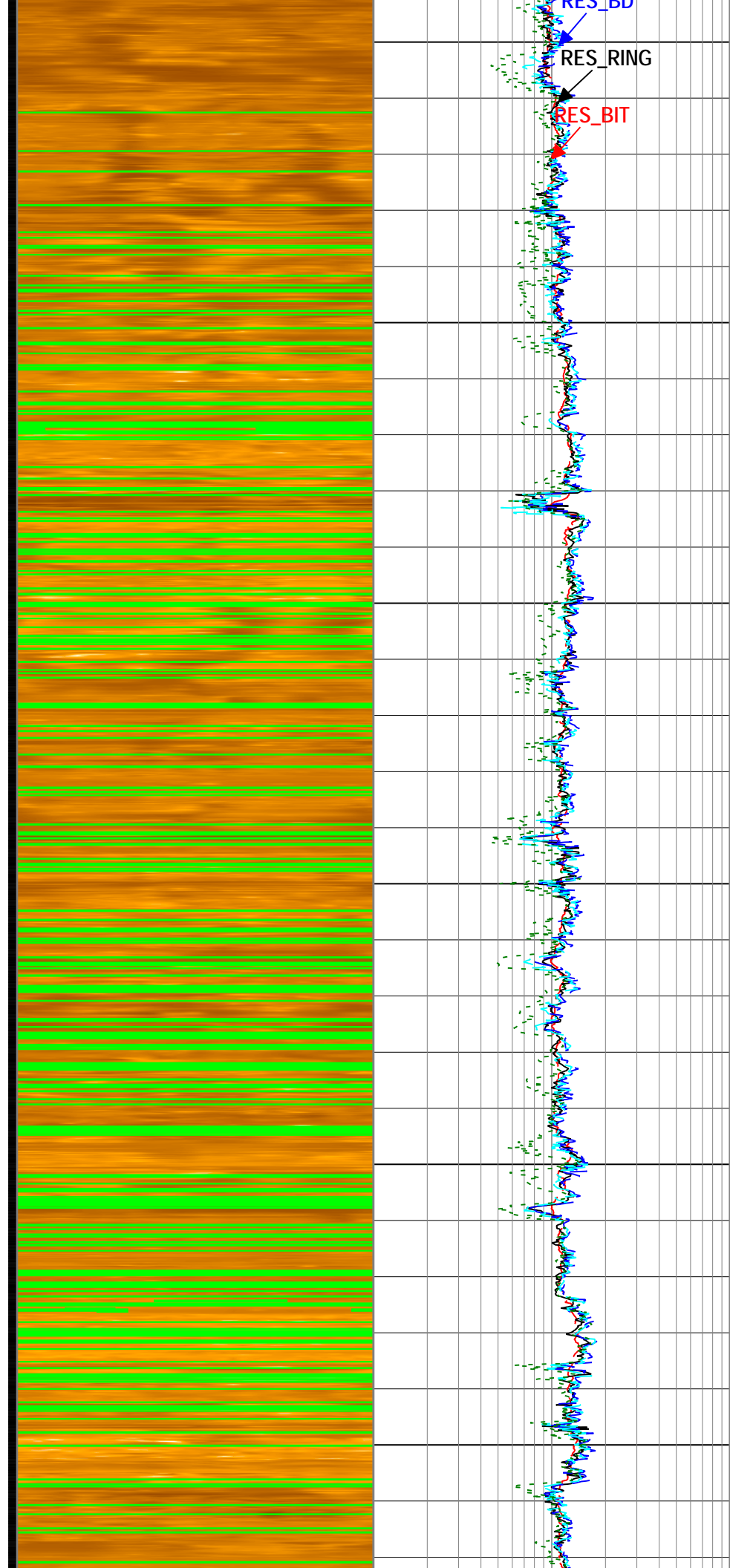
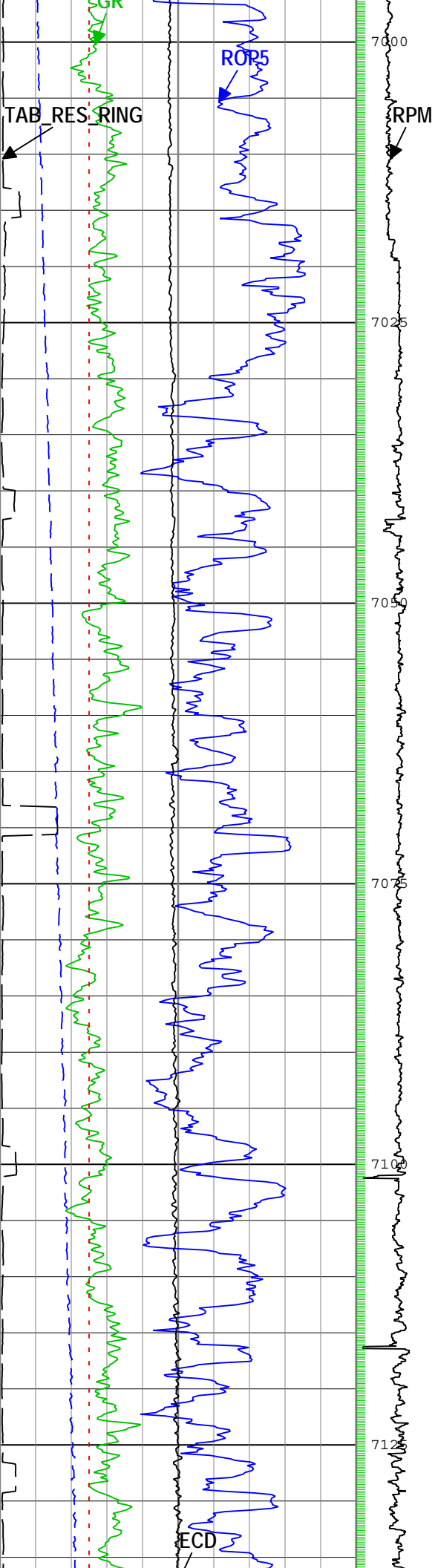
Ring Resistivity Time After Bit (TAB_RES_RING) RAB6		
0	h	10
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) RAB6 RM		
0	gAPI	150
Downhole Annulus Pressure (DHAP) ARC6 RM		
70000	kPa	85000
Downhole Annulus Temperature (DHAT) ARC6 RM		
0	degC	20
Equivalent Circulating Density (ECD) ARC6 RM		
1	g/cm3	1.1

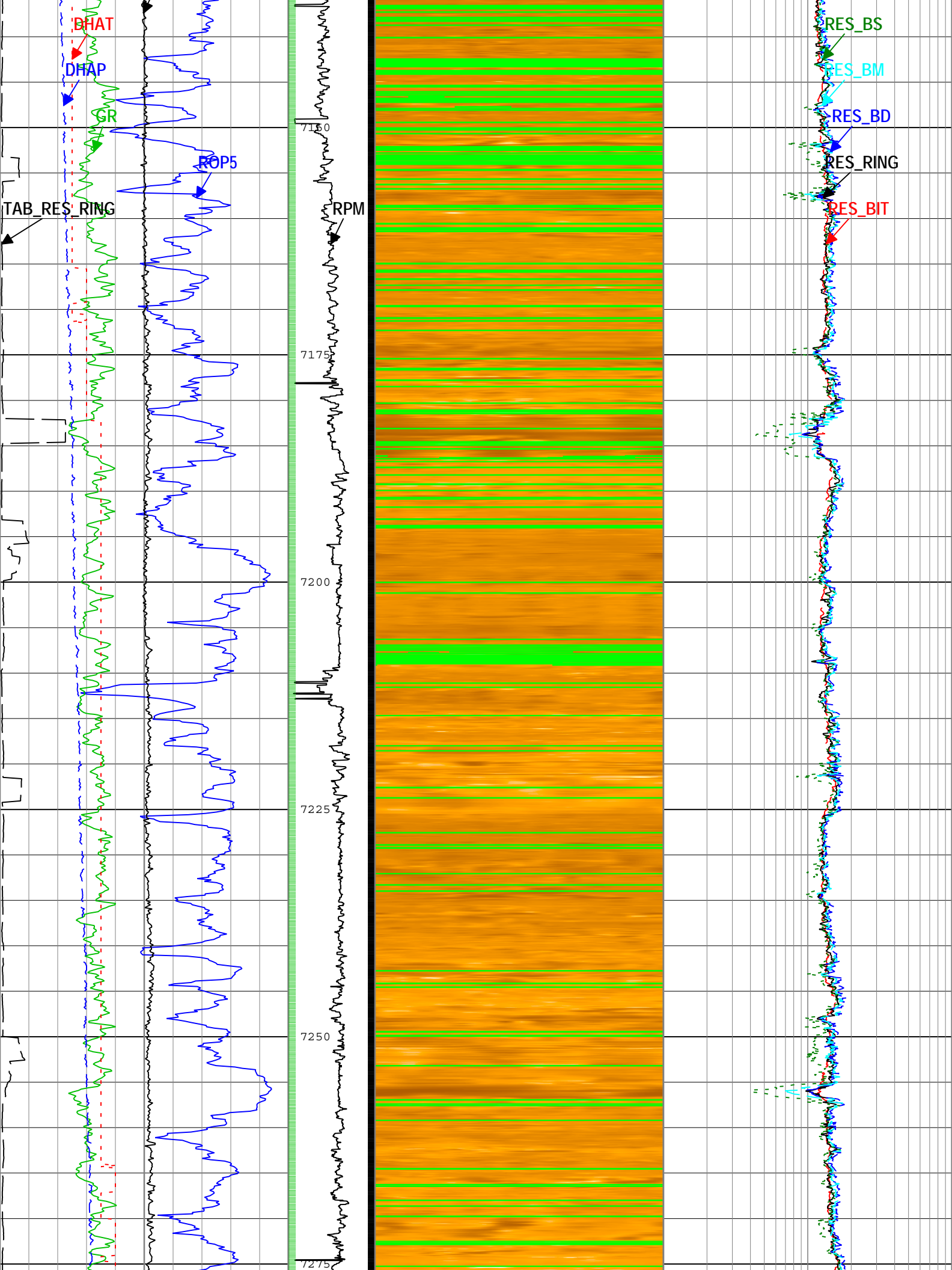
Rotational Speed (RPM) RAB6 RM
0 c/min 200

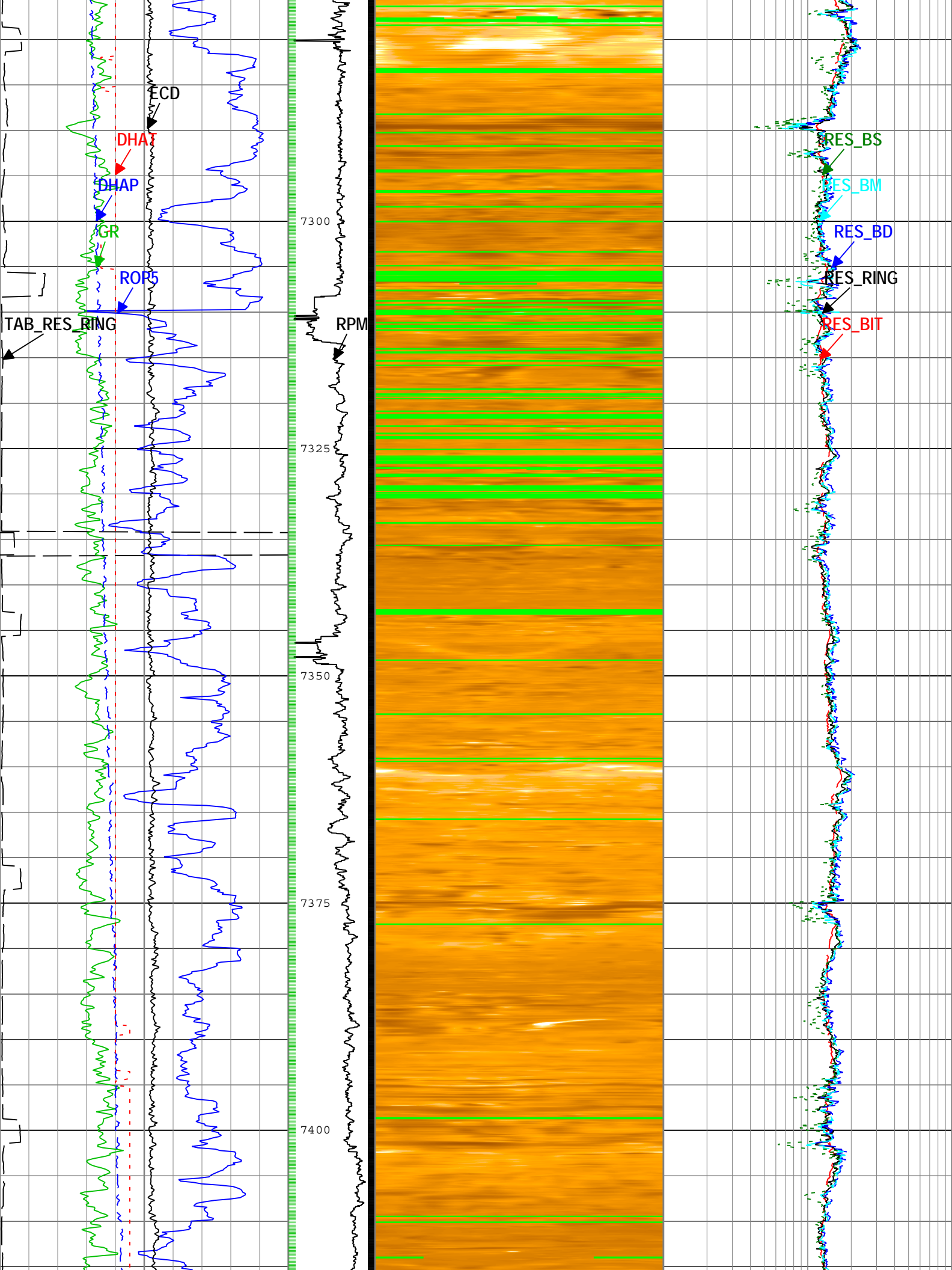


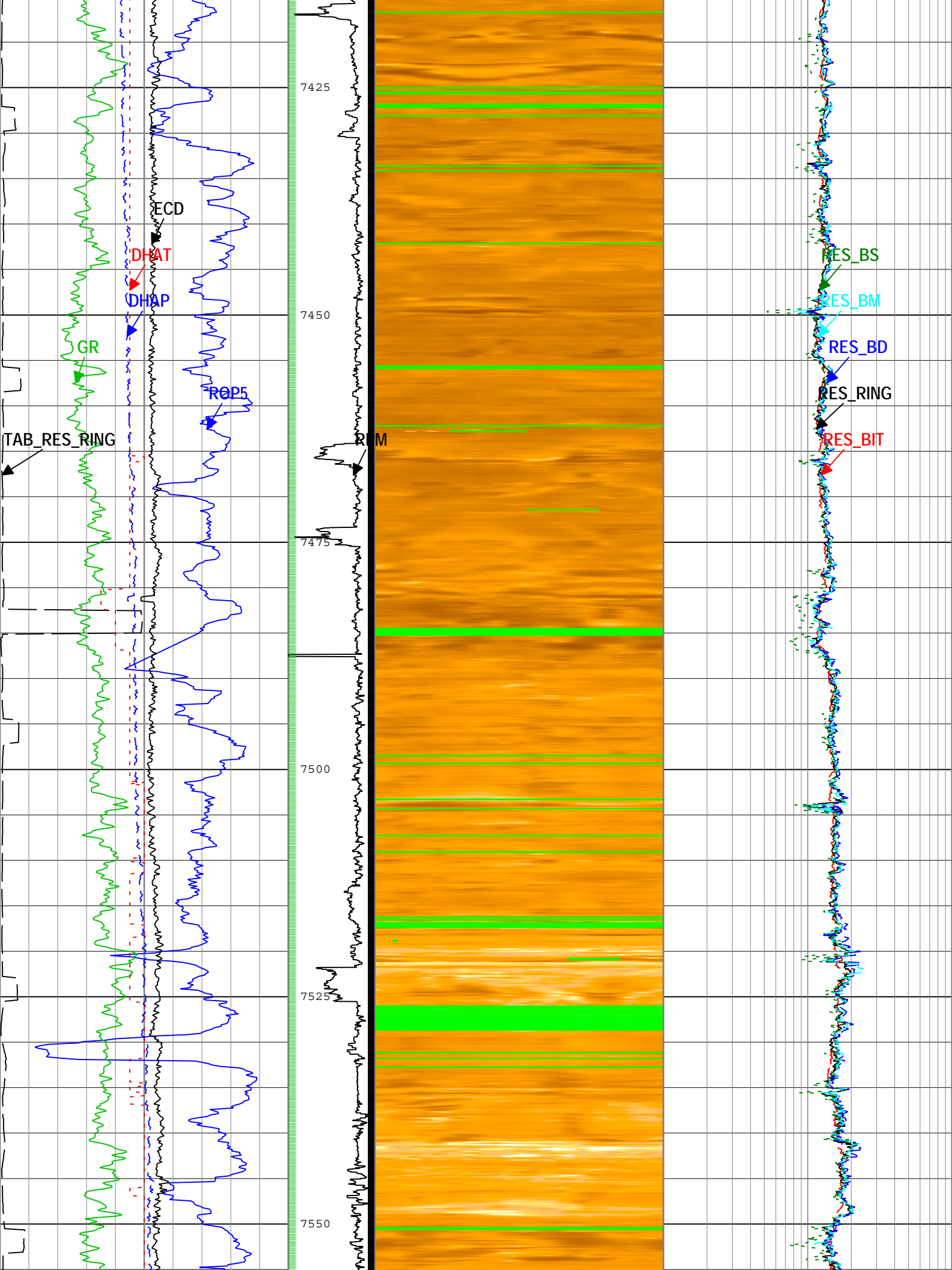
Bit Resistivity (RES_BIT) RAB6 RM		
0.1	ohm.m	10
Ring Resistivity (RES_RING) RAB6 RM		
0.1	ohm.m	10
Deep Button Resistivity (RES_BD) RAB6 RM		
0.1	ohm.m	10
Medium Button Resistivity (RES_BM) RAB6 RM		
0.1	ohm.m	10
Shallow Button Resistivity (RES_BS) RAB6 RM		
0.1	ohm.m	10

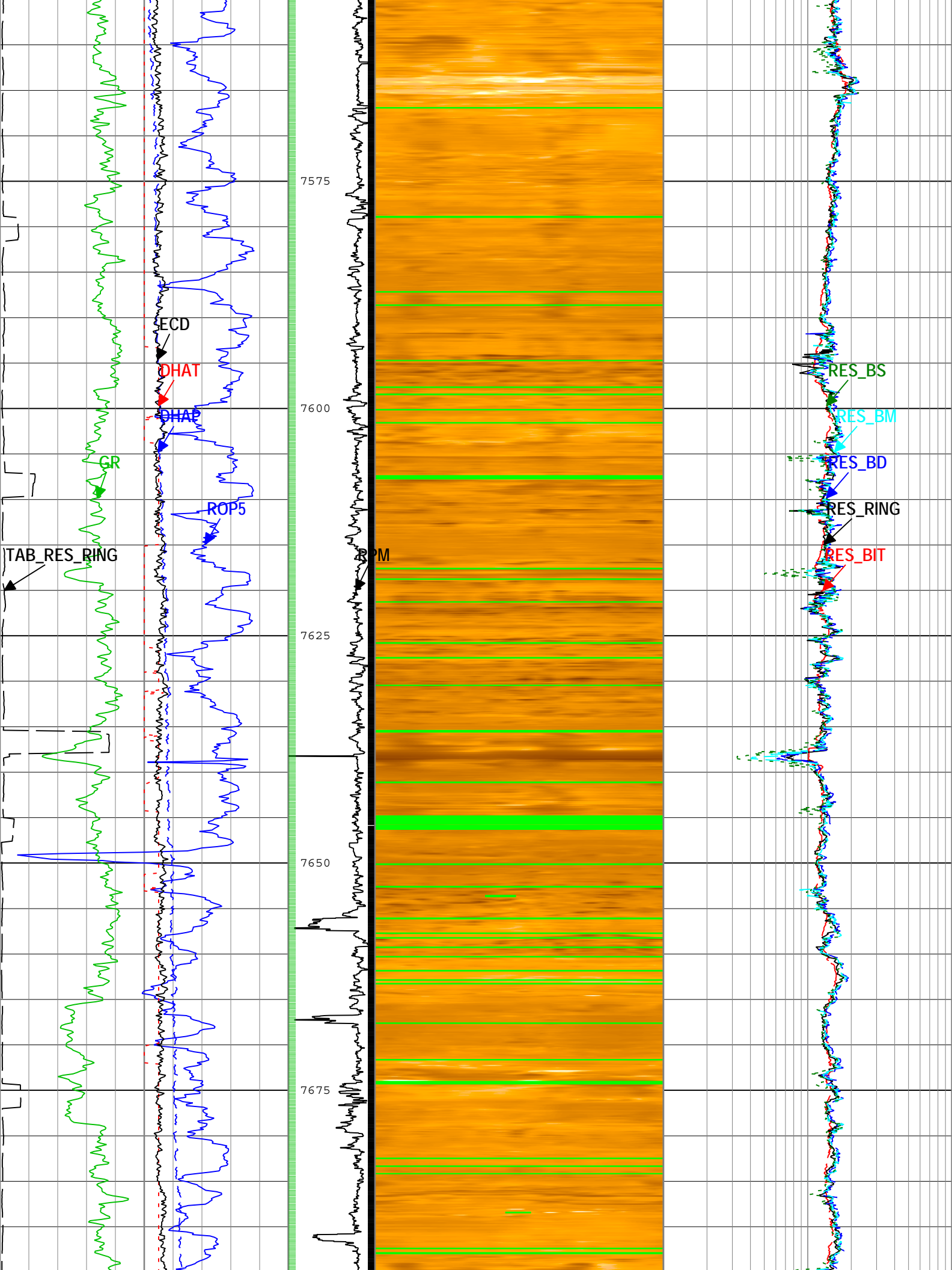


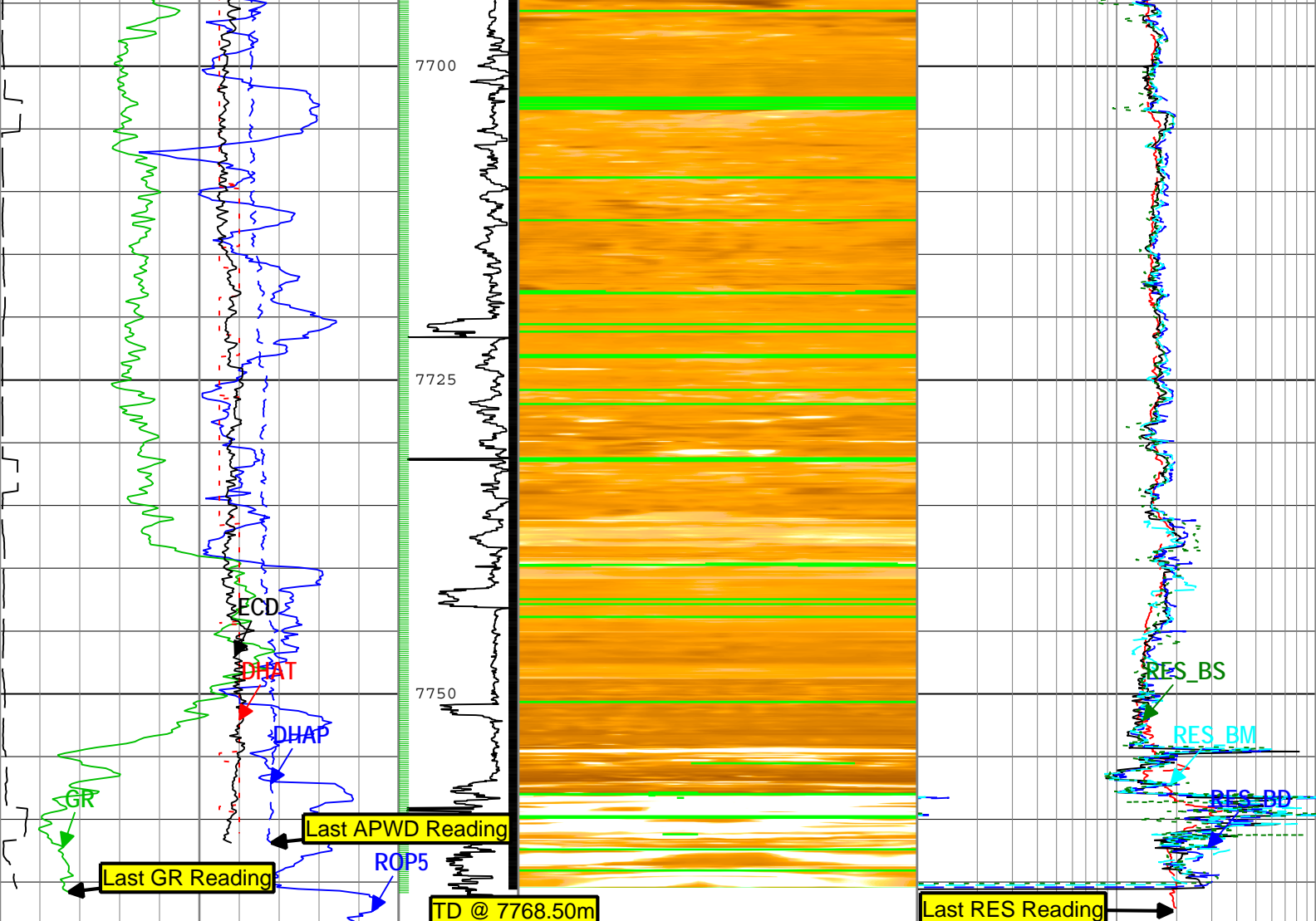












Ring Resistivity Time After Bit (TAB_RES_RING) RAB6	0	10
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT	100	0
Gamma Ray (GR) RAB6 RM	0	150
Downhole Annulus Pressure (DHAP) ARC6 RM	70000	85000
Downhole Annulus Temperature (DHAT) ARC6 RM	0	20
Equivalent Circulating Density (ECD) ARC6 RM	1	1.1

Rotational Speed (RPM) RAB6 RM	0	200
Static Linear Normalization	RAB - Deep Button Resistivity Image RAB6 RM (ohm.m)	
Orientation: North Azimuth	N E S W N	

Bit Resistivity (RES_BIT) RAB6 RM	0.1	10
Ring Resistivity (RES_RING) RAB6 RM	0.1	10
Deep Button Resistivity (RES_BD) RAB6 RM	0.1	10
Medium Button Resistivity (RES_BM) RAB6 RM	0.1	10
Shallow Button Resistivity (RES_BS) RAB6 RM	0.1	10

GR - Gamma Ray RAB6 RM
 RES_RING - Ring Resistivity RAB6 RM

Description: GVR Resistivity, Deep Button Image Format: Log (JFAST RM GVR+APWD MD Digital) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 11-May-2012 18:06:39

Channel Processing Parameters				
Parameter	Description	ToolPath	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHT	Bottom Hole Temperature	Borehole	12	degC

BS	Bit Size	COMPLETION	Depth Zoned	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	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	11.66	degC/km
GRSE_RM	Generalized Mud Resistivity Selection for Recorded Mode	Borehole	REMS	
GTSE_RT	Generalized Temperature Selection for Realtime Mode	Borehole	GTEM_GRDBOTTOM(RT)	
IMG_INTERP_WIN	Maximum Interpolation Window Size for Image	RAB6:RAB6:RBEC	0.15	m
MST	Mud Sample Temperature	Borehole	2	degC
RES_BD_IMG_SEL	GVR Output Resistivity Image Selection, Deep Button	RAB6:RAB6:RBEC	Compensated Uphole	
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	10	degC
TD	Total Measured Depth	Borehole	7768.5	m
TEMP_SEL_RAB	RAB Temperature Selection	RAB6:RAB6:RBEC	Tool	

Depth Zone Parameters

Parameter	Value	Start (m)	Stop (m)
BS	0	6910	6918
BS	8.5	6918	7768.5

All depth are actual.

Tool Control Parameters

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

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
OFFBTM_TH	0.2	21-Apr-2012 17:04:57	25-Apr-2012 22:24:51	6899.71	7768.18
OFFBTM_TH	0.4	25-Apr-2012 22:24:51	26-Apr-2012 20:21:59	7768.18	7768.31

All depth are at tool zero.

ReamUp Composite 1

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Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run1	Ream Up 1	Up	7745.45 m	7767.22 m	25-Apr-2012 11:01:58 PM	26-Apr-2012 12:03:43 AM	true
Run1	Ream Up 2	Up	7721.63 m	7752.46 m	26-Apr-2012 12:06:15 AM	26-Apr-2012 1:21:13 AM	true

All depths are referenced to toolstring zero

Log

ReamUp Composite 1 766C8710-111A-4D28-8E1B-D490FB185D14

Description: GVR Resistivity, Deep Button Image Format: Log (JFAST RM GVR+APWD MD Digital) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 11-May-2012 18:07:00

Channel Source Sampling

DHAP ARC[1]:ARC[1] 6in - RM

DHAT ARC[1]:ARC[1] 6in - RM

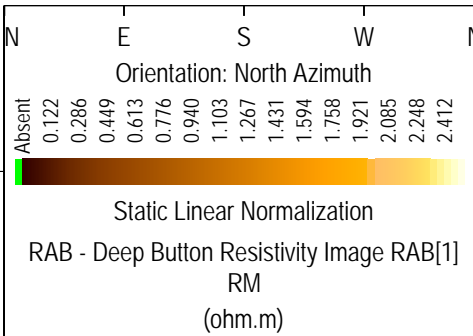
ECD	ARC[1]:ARC[1]:APWD[1]	6in - RM
GR	RAB[1]:RAB[1]:RBEC[1]	6in - RM
RES_BD	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BIT	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BM	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BS	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_RING	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
ROP5	DRILLING_SURFACE	6in - RT
RPM	RAB[1]:RAB[1]	1.2in - RM
TAB_RES_RING	RAB[1]:RAB[1]:RBEC[1]	6in

RES_RING - Ring Resistivity RAB[1] RM

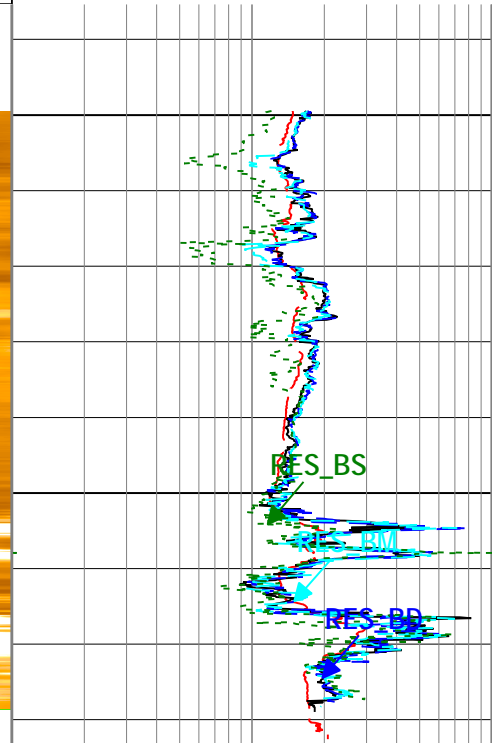
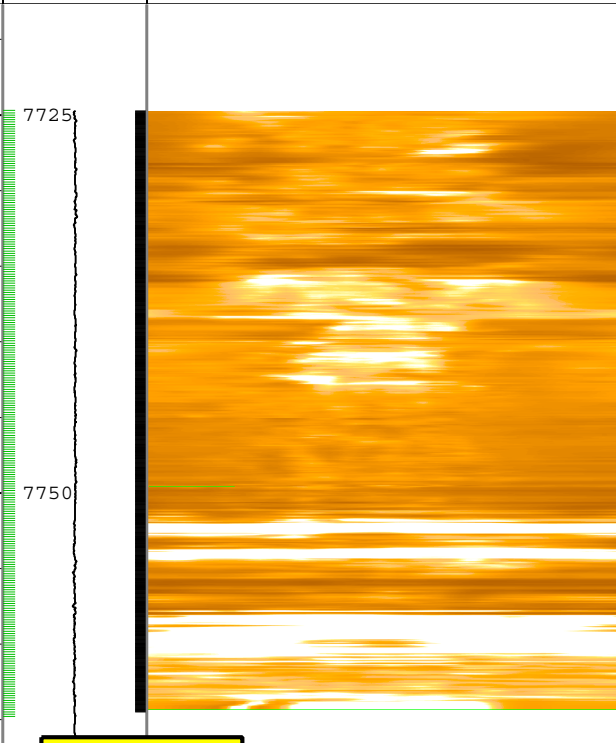
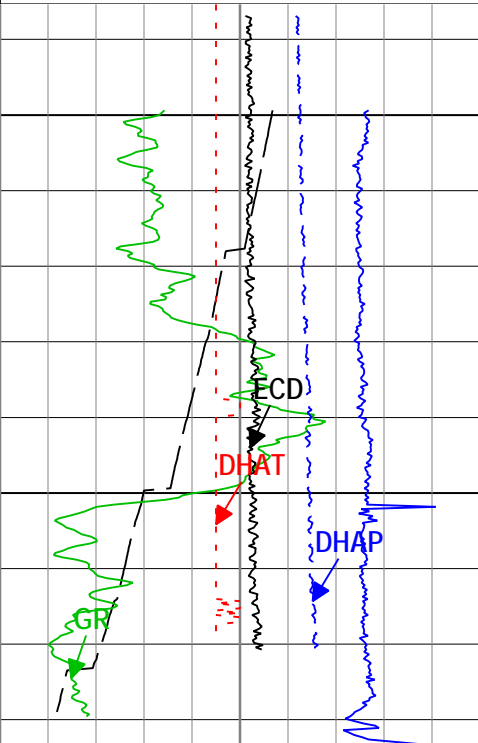
GR - Gamma Ray RAB[1] RM

Ring Resistivity Time After Bit (TAB_RES_RING) RAB[1]		
0	h	10
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) RAB[1] RM		
0	gAPI	150
Downhole Annulus Pressure (DHAP) ARC[1] RM		
70000	kPa	85000
Downhole Annulus Temperature (DHAT) ARC[1] RM		
0	degC	20
Equivalent Circulating Density (ECD) ARC[1] RM		
1	g/cm3	1.1

Rotational Speed (RPM) RAB[1] RM
0 c/min 200

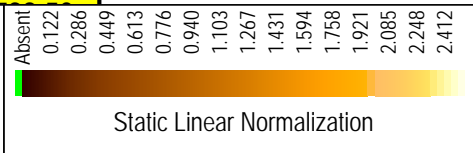


Bit Resistivity (RES_BIT) RAB[1] RM		
0.1	ohm.m	10
Ring Resistivity (RES_RING) RAB[1] RM		
0.1	ohm.m	10
Deep Button Resistivity (RES_BD) RAB[1] RM		
0.1	ohm.m	10
Medium Button Resistivity (RES_BM) RAB[1] RM		
0.1	ohm.m	10
Shallow Button Resistivity (RES_BS) RAB[1] RM		
0.1	ohm.m	10



Ring Resistivity Time After Bit (TAB_RES_RING) RAB[1]		
0	h	10
Rate of penetration averaged over the last 5 ft		

Rotational Speed (RPM) RAB[1] RM
0 c/min 200



Bit Resistivity (RES_BIT) RAB[1] RM		
0.1	ohm.m	10
Ring Resistivity (RES_RING) RAB[1] RM		

(1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) RAB[1] RM		
0	gAPI	150
Downhole Annulus Pressure (DHAP) ARC[1] RM		
70000	kPa	85000
Downhole Annulus Temperature (DHAT) ARC[1] RM		
0	degC	20
Equivalent Circulating Density (ECD) ARC[1] RM		
1	g/cm3	1.1

RAB - Deep Button Resistivity Image RAB[1] RM
(ohm.m)
Orientation: North Azimuth

N E S W N

0.1	ohm.m	10
Deep Button Resistivity (RES_BD) RAB[1] RM		
0.1	ohm.m	10
Medium Button Resistivity (RES_BM) RAB[1] RM		
0.1	ohm.m	10
Shallow Button Resistivity (RES_BS) RAB[1] RM		
0.1	ohm.m	10

└ GR - Gamma Ray RAB[1] RM
└ RES_RING - Ring Resistivity RAB[1] RM

Description: GVR Resistivity, Deep Button Image Format: Log (JFAST RM GVR+APWD MD Digital) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 11-May-2012 18:07:00

ReamUp Composite 2

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run1	Ream Up 3	Up	7645.02 m	7657.03 m	26-Apr-2012 1:48:22 AM	26-Apr-2012 2:21:04 AM	true
Run1	Ream Up 4	Up	7609.15 m	7646.24 m	26-Apr-2012 2:37:56 AM	26-Apr-2012 4:12:01 AM	true
Run1	Ream Up 5	Up	7600.19 m	7610.27 m	26-Apr-2012 4:41:47 AM	26-Apr-2012 5:07:30 AM	true

All depths are referenced to toolstring zero

Log ReamUp Composite 2 77C2AC54-7156-400A-A577-CD68B5B4BEC2

Description: GVR Resistivity, Deep Button Image Format: Log (JFAST RM GVR+APWD MD Digital) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 11-May-2012 18:07:06

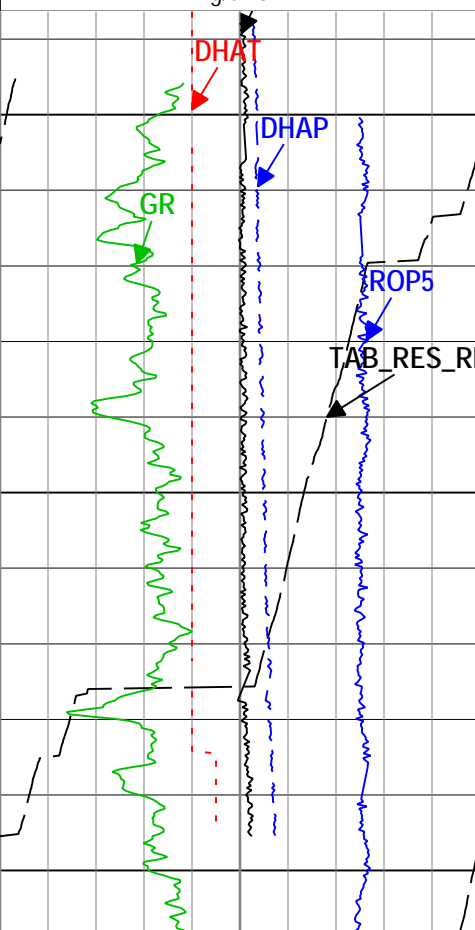
Channel	Source	Sampling
DHAP	ARC[1]:ARC[1]	6in - RM
DHAT	ARC[1]:ARC[1]	6in - RM
ECD	ARC[1]:ARC[1]:APWD[1]	6in - RM
GR	RAB[1]:RAB[1]:RBEC[1]	6in - RM
RES_BD	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BIT	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BM	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BS	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_RING	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
ROP5	DRILLING_SURFACE	6in - RT
RPM	RAB[1]:RAB[1]	1.2in - RM
TAB_RES_RING	RAB[1]:RAB[1]:RBEC[1]	6in

└ RES_RING - Ring Resistivity RAB[1] RM
└ GR - Gamma Ray RAB[1] RM

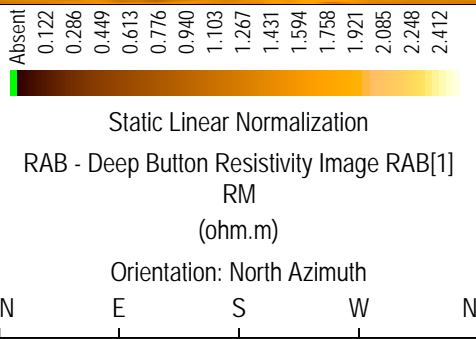
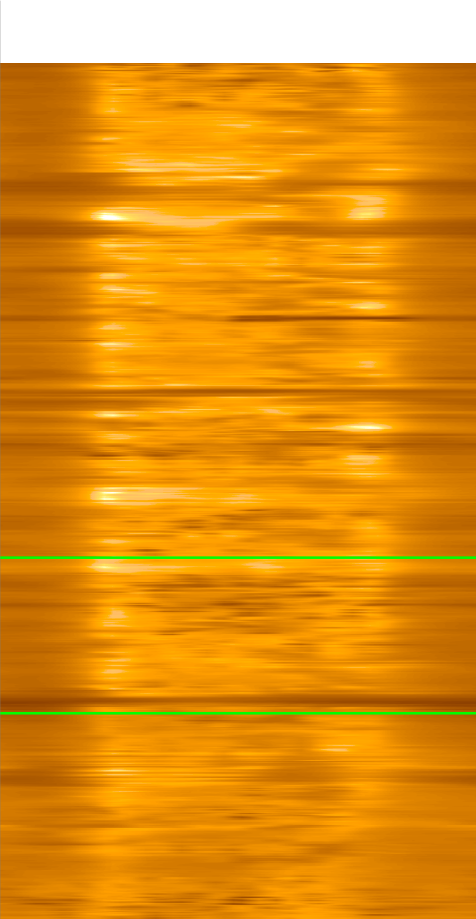
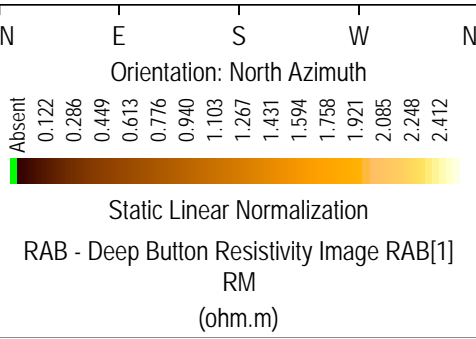
Ring Resistivity Time After Bit (TAB RES RING) RAB[1]

0	h	10
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) RAB[1] RM		
0	gAPI	150
Downhole Annulus Pressure (DHAP) ARC[1] RM		
70000	kPa	85000
Downhole Annulus Temperature (DHAT) ARC[1] RM		
0	degC	20
Equivalent Circulating Density (ECD) ARC[1] RM		
1	g/cm3	1.1

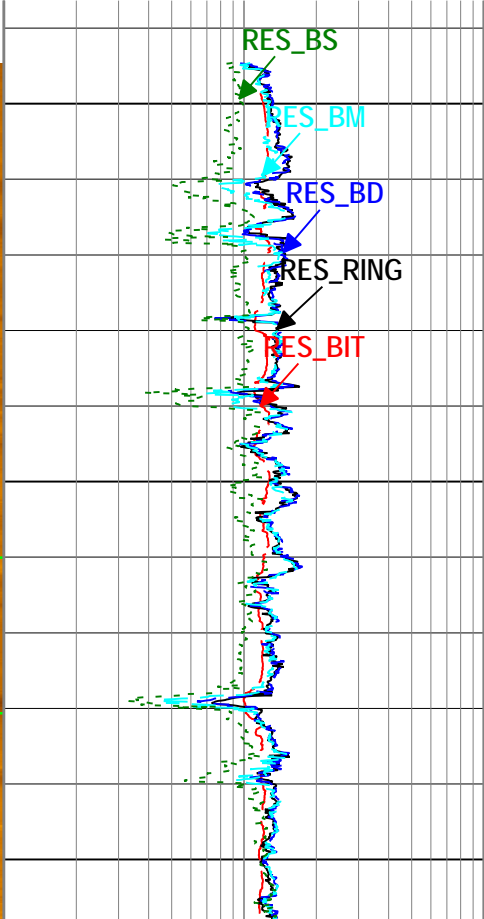
Rotational Speed (RPM) RAB[1] RM
0 c/min 200



Ring Resistivity Time After Bit (TAB_RES_RING) RAB[1]
0 h
10
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT
100 m/h
0
Gamma Ray (GR) RAB[1] RM
0 gAPI
150
Downhole Annulus Pressure (DHAP) ARC[1] RM
70000 kPa
85000
Downhole Annulus Temperature (DHAT) ARC[1] RM
0 degC
20



Bit Resistivity (RES_BIT) RAB[1] RM
0.1 ohm.m
10
Ring Resistivity (RES_RING) RAB[1] RM
0.1 ohm.m
10
Deep Button Resistivity (RES_BD) RAB[1] RM
0.1 ohm.m
10
Medium Button Resistivity (RES_BM) RAB[1] RM
0.1 ohm.m
10
Shallow Button Resistivity (RES_BS) RAB[1] RM
0.1 ohm.m
10



Bit Resistivity (RES_BIT) RAB[1] RM
0.1 ohm.m
10
Ring Resistivity (RES_RING) RAB[1] RM
0.1 ohm.m
10
Deep Button Resistivity (RES_BD) RAB[1] RM
0.1 ohm.m
10
Medium Button Resistivity (RES_BM) RAB[1] RM
0.1 ohm.m
10
Shallow Button Resistivity (RES_BS) RAB[1] RM
0.1 ohm.m
10

Equivalent Circulating Density (ECD) ARC[1] RM		
1	g/cm3	1.1

GR - Gamma Ray RAB[1] RM
RES_RING - Ring Resistivity RAB[1] RM

Description: GVR Resistivity, Deep Button Image Format: Log (JFAST RM GVR+APWD MD Digital) Index Scale: 1:500 Index Unit: m Index Type:
Measured Depth Creation Date: 11-May-2012 18:07:06

ReamUp Composite 3

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run1	Ream Up 6	Up	7296.07 m	7311.47 m	26-Apr-2012 7:05:37 AM	26-Apr-2012 7:37:43 AM	true
Run1	Ream Up 7	Up	7267.04 m	7298.56 m	26-Apr-2012 8:02:07 AM	26-Apr-2012 9:21:38 AM	true
Run1	Ream Up 8	Up	7250.07 m	7268.79 m	26-Apr-2012 10:10:43 AM	26-Apr-2012 10:59:30 AM	true

All depths are referenced to toolstring zero

Log ReamUp Composite 3 EF59FE12-AD2D-45B6-BD54-BEE86F46066D

Description: GVR Resistivity, Deep Button Image Format: Log (JFAST RM GVR+APWD MD Digital) Index Scale: 1:500 Index Unit: m Index Type:
Measured Depth Creation Date: 11-May-2012 18:07:11

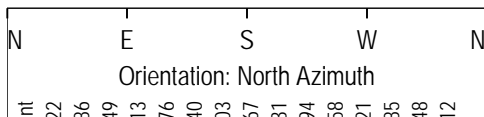
Channel	Source	Sampling
DHAP	ARC[1]:ARC[1]	6in - RM
DHAT	ARC[1]:ARC[1]	6in - RM
ECD	ARC[1]:ARC[1]:APWD[1]	6in - RM
GR	RAB[1]:RAB[1]:RBEC[1]	6in - RM
RES_BD	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BIT	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BM	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_BS	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
RES_RING	RAB[1]:RAB[1]:RBEC[1]	1.2in - RM
ROP5	DRILLING_SURFACE	6in - RT
RPM	RAB[1]:RAB[1]	1.2in - RM
TAB_RES_RING	RAB[1]:RAB[1]:RBEC[1]	6in

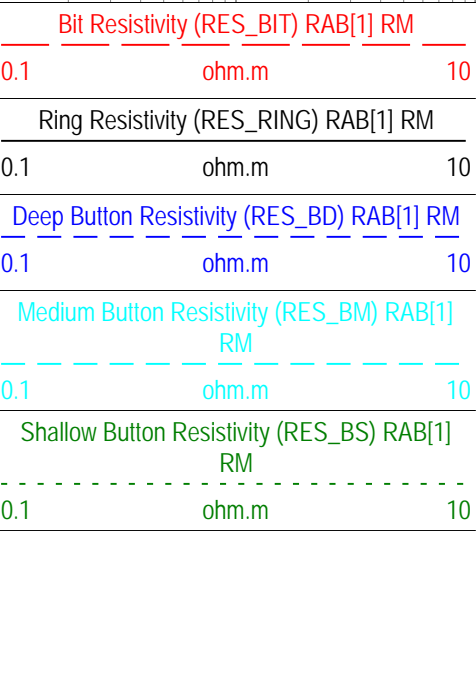
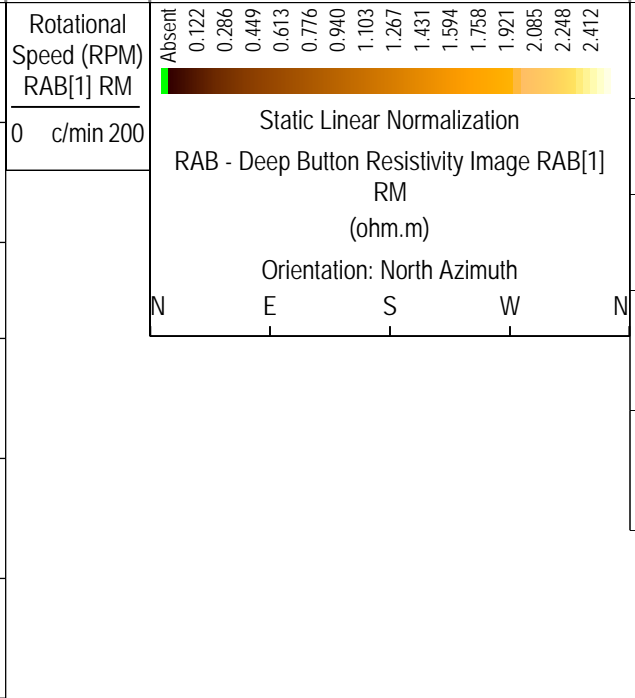
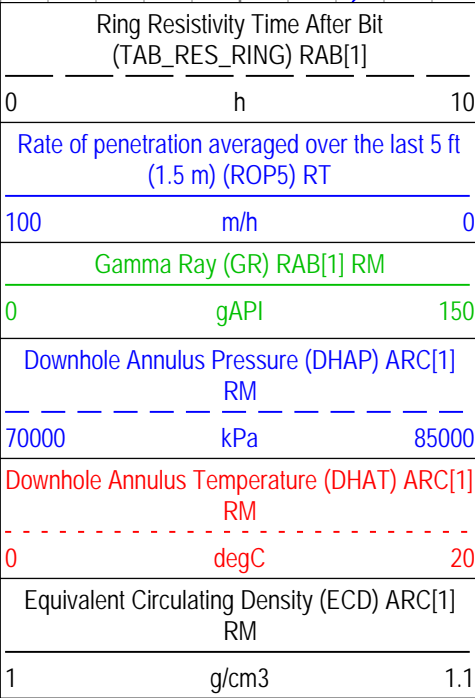
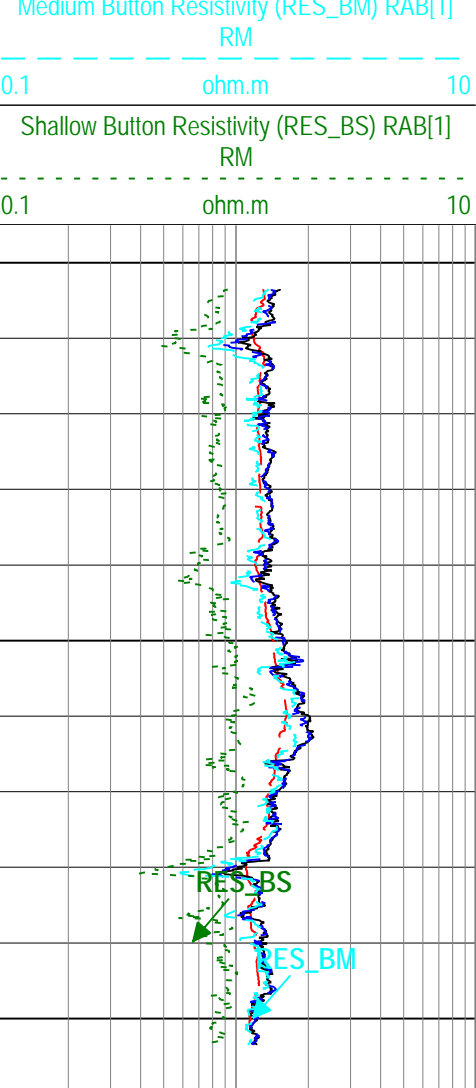
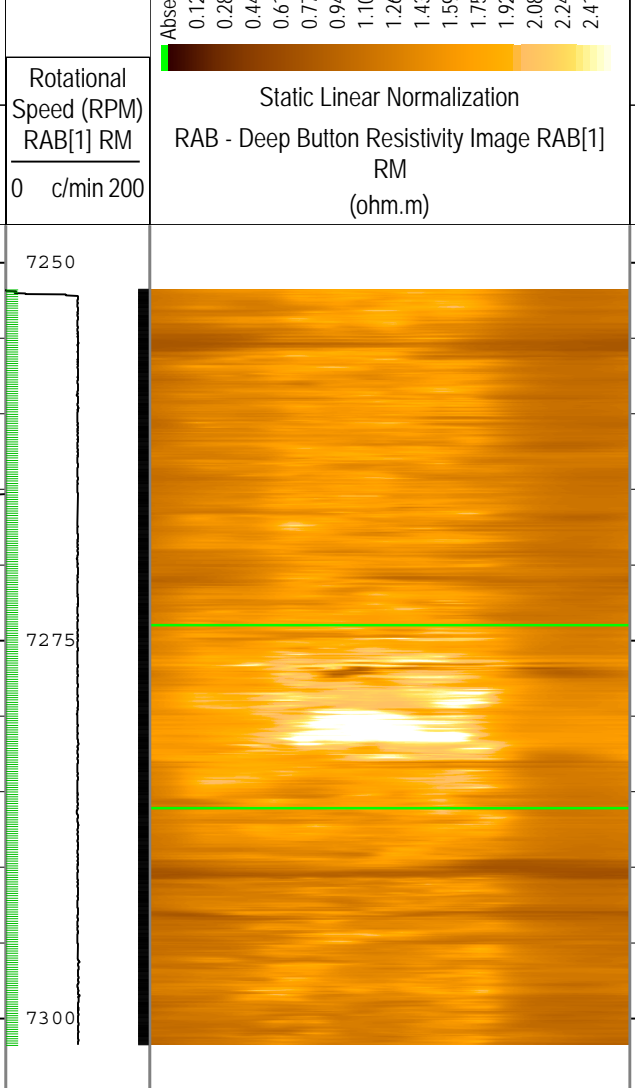
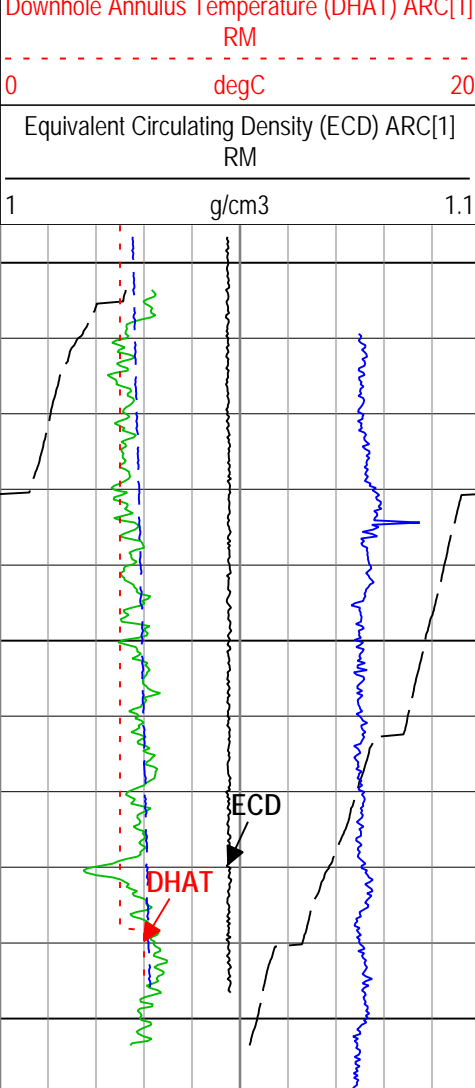
RES_RING - Ring Resistivity RAB[1] RM

GR - Gamma Ray RAB[1] RM

Ring Resistivity Time After Bit (TAB_RES_RING) RAB[1]		
0	h	10
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) RAB[1] RM		
0	gAPI	150
Downhole Annulus Pressure (DHAP) ARC[1] RM		
70000	kPa	85000

Bit Resistivity (RES_BIT) RAB[1] RM		
0.1	ohm.m	10
Ring Resistivity (RES_RING) RAB[1] RM		
0.1	ohm.m	10
Deep Button Resistivity (RES_BD) RAB[1] RM		
0.1	ohm.m	10





GR - Gamma Ray RAB[1] RM
RES_RING - Ring Resistivity RAB[1] RM

Description: GVR Resistivity, Deep Button Image Format: Log (JFAST RM GVR+APWD MD Digital) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 11-May-2012 18:07:11

M21V - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Monitor 2 at T1 Calibration Coefficient		Master	1.0000	0.9750	0.9984	1.0250	

M22V - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Monitor 2 at T2 Calibration Coefficient		Master	1.0000	0.9750	0.9942	1.0250	

M01V - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Monitor 0 at T1 Calibration Coefficient		Master	1.0000	0.9750	1.0058	1.0250	

M02V - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Monitor 0 at T2 Calibration Coefficient		Master	1.0000	0.9750	1.0016	1.0250	

R1V - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Ring at T1 Calibration Coefficient		Master	1.0000	0.9750	0.9954	1.0250	

R2V - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Ring at T2 Calibration Coefficient		Master	1.0000	0.9750	0.9918	1.0250	

BDM1 - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Deep at T1 Calibration Coefficient		Master	1.0000	0.9750	0.9937	1.0250	

BDM2 - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Deep at T2 Calibration Coefficient		Master	1.0000	0.9750	0.9895	1.0250	

BMM1 - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Medium at T1 Calibration Coefficient		Master	1.0000	0.9750	0.9998	1.0250	

BMM2 - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Medium at T2 Calibration Coefficient		Master	1.0000	0.9750	0.9956	1.0250	

BSM1 - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Shallow at T1 Calibration Coefficient		Master	1.0000	0.9750	1.0061	1.0250	

BSM2 - Resistivity

Master (Time Frame File): 02:32:29 27-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Shallow at T2 Calibration Coefficient		Master	1.0000	0.9750	1.0021	1.0250	

PGR - Gamma Ray: Blanket

Master (Time Frame File): 18:47:12 26-Mar-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Calibration Gain		Master	1.0000	0.7500	0.8716	1.2500	

ARC6 (Array Resistivity Compensated 675) Calibration - Run Run1

Primary Equipment :

Elec. Chassis HP with AIM Receiver

AREA

2914

RESAIRCAL - Resistivity: Air

Master (Time Frame File): 22:15:21 25-Feb-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Attenuation T1 at 2 MHz	dB	Master	8.500	6.500	8.697	10.500	
Attenuation T2 at 2 MHz	dB	Master	6.500	4.500	6.322	8.500	
Attenuation T3 at 2 MHz	dB	Master	4.500	2.500	5.294	6.500	
Attenuation T4 at 2 MHz	dB	Master	4.600	2.600	4.218	6.600	
Attenuation T5 at 2 MHz	dB	Master	3.600	1.600	3.843	5.600	
Phase Shift T1 at 2 MHz	deg	Master	0.100	-3.900	0.985	4.100	
Phase Shift T2 at 2 MHz	deg	Master	0.100	-3.900	-0.887	4.100	
Phase Shift T3 at 2 MHz	deg	Master	0.100	-3.900	0.867	4.100	
Phase Shift T4 at 2 MHz	deg	Master	0.100	-3.900	-0.932	4.100	
Phase Shift T5 at 2 MHz	deg	Master	0.100	-3.900	0.858	4.100	
Attenuation T1 at 400 KHz	dB	Master	8.500	6.500	8.708	10.500	
Attenuation T2 at 400 KHz	dB	Master	6.500	4.500	6.315	8.500	
Attenuation T3 at 400 KHz	dB	Master	4.500	2.500	5.302	6.500	
Attenuation T4 at 400 KHz	dB	Master	4.600	2.600	4.205	6.600	
Attenuation T5 at 400 KHz	dB	Master	3.600	1.600	3.860	5.600	
Phase Shift T1 at 400 KHz	deg	Master	0.100	-3.900	0.047	4.100	
Phase Shift T2 at 400 KHz	deg	Master	0.100	-3.900	-0.090	4.100	
Phase Shift T3 at 400 KHz	deg	Master	0.100	-3.900	0.077	4.100	
Phase Shift T4 at 400 KHz	deg	Master	0.100	-3.900	-0.105	4.100	
Phase Shift T5 at 400 KHz	deg	Master	0.100	-3.900	0.053	4.100	

GRGAIN - Gamma Ray: Blanket

Master (Time Frame File): 09:48:08 27-Feb-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Calibration Gain		Master	1.000	0.580	0.933	1.250	

Company: JAMSTEC
Well: C0019B
Field: Japan Trench - Miyagi Offshore
Rig Name: Chikyu
State: Miyagi
Country: Japan



geoVISION Resistivity Image - APWD

Gamma Ray - Resistivity - Image - APWD

8.5in Recorded Mode Log. Measured Depth 1:500