

# geoVISION - APWD

Gamma Ray - Resistivity - Image - APWD

12.25in Recorded Mode Log. Measured Depth 1:500



Company: JAMSTEC

Well: C0018B

Field: Nankai Trough - Kumano Basin

Rig Name: Chiky

Prefecture: Wakayama

Country: Japan

Latitude: 33° 9' 25.914" N

Custom:

12JAP0020

Longitude: 136° 40' 52.956" E

Rig Name:

Chiky

Block:

Rig Type:

Drill Vessel

FL: Philippine Sea

FL1: X = 655 167.7158m

FL2: Y = 3 669 972.9081m

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



Ground Level: 3084.50 m

Acquisition Dates: 26-Dec-2012

Other Services:

Log Interval: 3:105.00(m) -- 3:463.19(m)

DWOB, DTOR

Index Types: Measured Depth

Direction and Inclination

Index Scales: 1:500

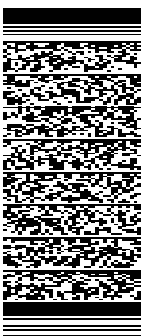
Drilling Mechanics

Depth Source: Driller's Depth

Depth Sensor: DES

Print Type: Final

Spud Date: 26-Dec-2012



## 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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## Well Sketch

**Driller Depth**

**3113.00 m**



3463.19 m

Open Hole 12.25in

### Borehole Size/Casing Record

Bit					
Bit Size ( in )	12.25				
Top Driller ( m )	3113				
Bottom Driller ( m )	3463.19				

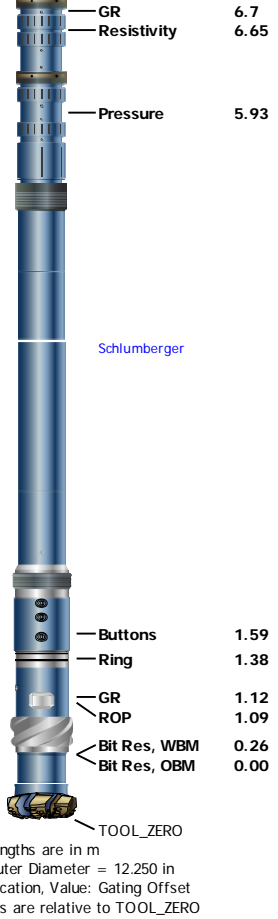
### Operational Run Summary

Parameter ( unit )	Run 1				
Date Log Started	25-Dec-2012				
Time Log Started	17:03:32				
Date Log Finished	26-Dec-2012				
Time Log Finished	19:56:41				
Bit Size ( in )	12.250				
Bit Start Depth ( m )	3113.00				
Bit Stop Depth ( m )	3463.20				
Top Log Interval ( m )	3113.00				
Bottom Log Interval ( m )	3462.94				
Max Hole Deviation ( deg )	1.60				
Azimuth of Max Deviation ( deg )	281.92				
Logging Unit Number	OLU-KC-0504				
Logging Unit Location	Comp Deck				
Recorded By	Wang Feng TomasCosendey				
Witnessed By	Yoshi Sanada				
Service Order Number	12JAP0020				

### Borehole Fluids

Parameter( unit )	Run 1				
Fluid Type	Water				
Fluid Name	Sea Water				
Max Recorded Temperatures ( degC )	5				
Source of Sample	Active Tank				
Salinity ( ppm )	30470.42				
Density ( g/cm3 )	1.04				
Funnel Viscosity ( s )					





## 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 :	0.92 deg		

### Rig Location

Latitude : 33° 9' 25.914" N Longitude : 136° 40' 52.956" 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 :	21-Dec-2012
Computed Location B :	45873.94 nT +/- 300.00nT	Used Location B :	45873.94 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 :	46.64 deg +/- 0.45deg	Used Magnetic Dip :	46.64 deg +/- 0.45deg
Computed Magnetic Dec :	-6.70 deg	Used Magnetic Dec :	-6.70 deg
Computed Total Correction :	-7.62 deg	Used Total Correction :	-7.62 deg

### Survey Quality Index

0 : Long Survey passed 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	3113.00	0.00	0.00	3113.00	3113.00	0.00	0.00	0.00	0.00	90.00	0.00	Other	9	0	11
3	3118.67	0.63	336.91	5.67	3118.67	0.03	0.03	-0.01	0.03	336.91	3.33	TeleScope	0	0	0
4	3158.72	1.60	281.92	40.06	3158.71	0.35	0.35	-0.65	0.73	298.21	1.01	TeleScope	0	0	0
5	3197.12	1.38	279.03	38.40	3197.10	0.53	0.53	-1.63	1.71	288.04	0.19	TeleScope	0	0	0
6	3234.92	0.88	280.72	37.79	3234.89	0.65	0.65	-2.36	2.45	285.51	0.39	TeleScope	0	0	0

7	3273.35	0.63	279.81	38.43	3273.32	0.75	0.75	-2.86	2.95	284.62	0.20	TeleScope	0	0	0
8	3311.73	0.39	288.97	38.39	3311.70	0.82	0.82	-3.19	3.30	284.49	0.20	TeleScope	0	0	0
9	3349.23	0.31	291.47	37.50	3349.20	0.90	0.90	-3.40	3.52	284.85	0.07	TeleScope	0	0	0
10	3387.87	0.18	281.45	38.63	3387.83	0.95	0.95	-3.56	3.69	284.98	0.10	TeleScope	0	0	0
11	3426.23	0.12	249.90	38.36	3426.19	0.95	0.95	-3.66	3.78	284.58	0.08	TeleScope	0	0	0

## Run1

### Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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### Pass Summary

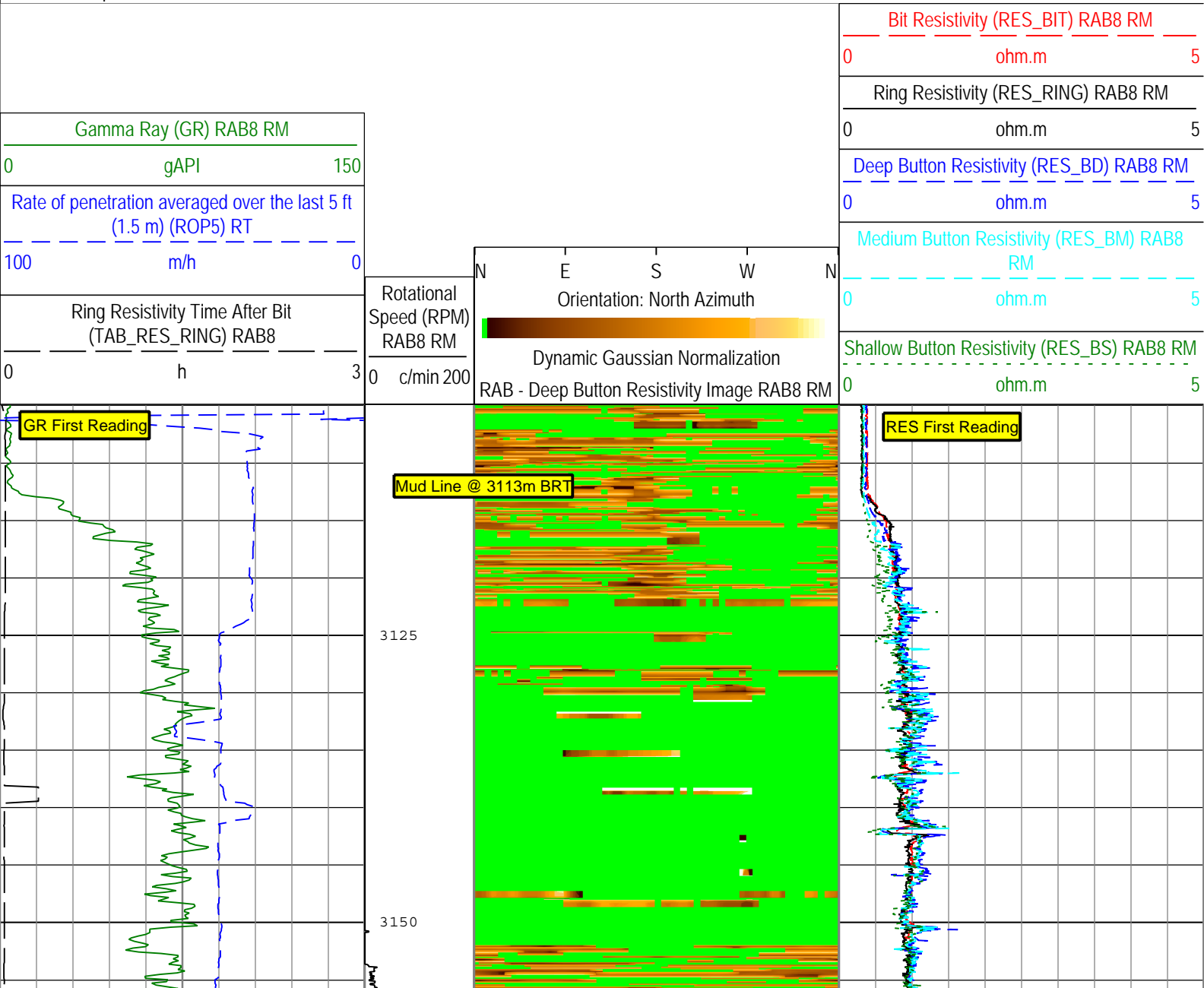
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run1	Drilling	Down	3080.05 m	3463.19 m	26-Dec-2012 3:46:59 AM	26-Dec-2012 7:56:41 PM	

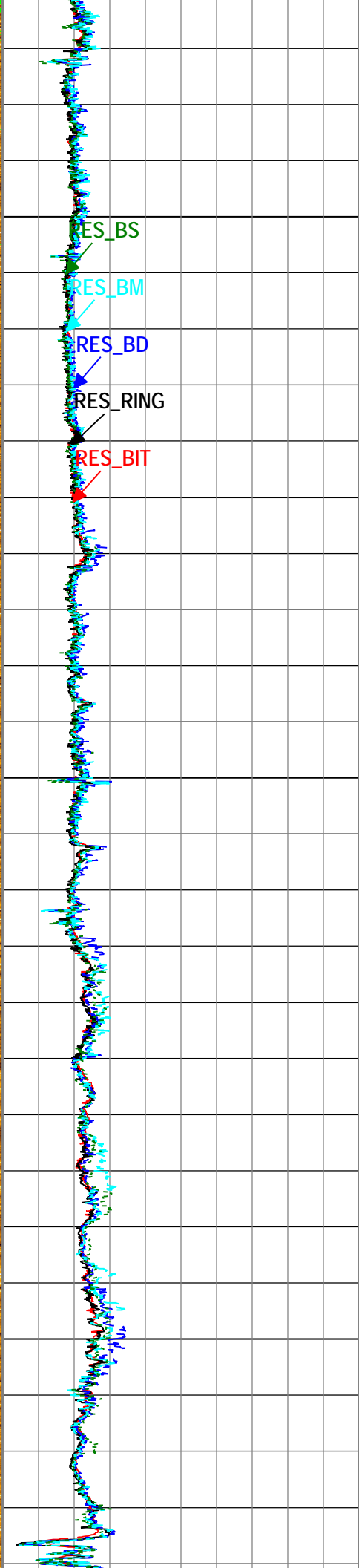
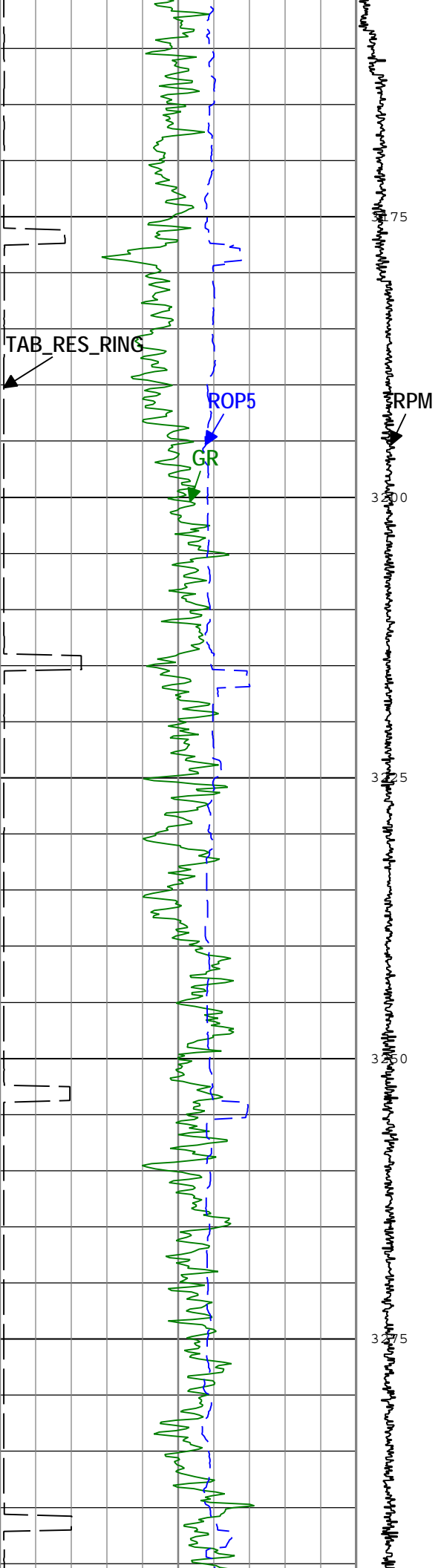
All depths are referenced to toolstring zero

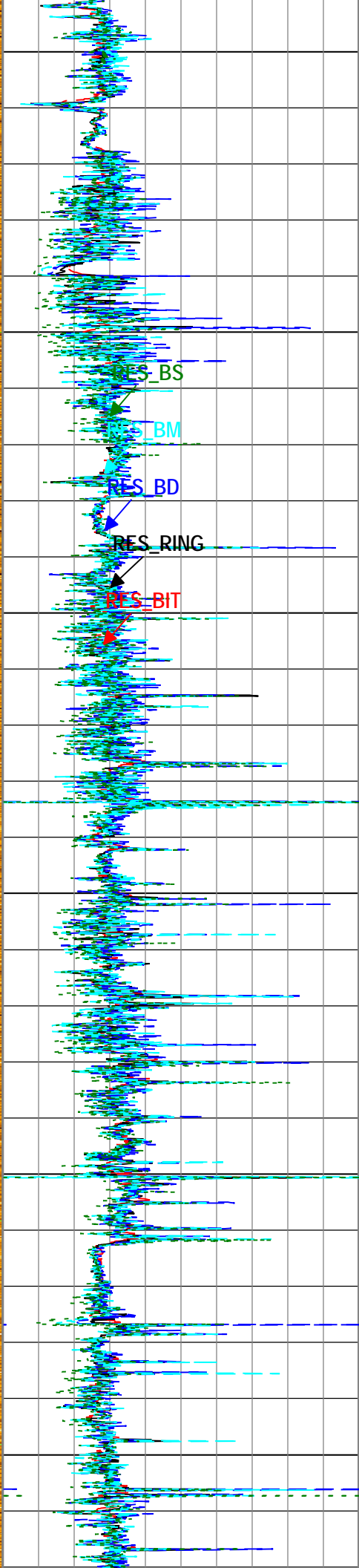
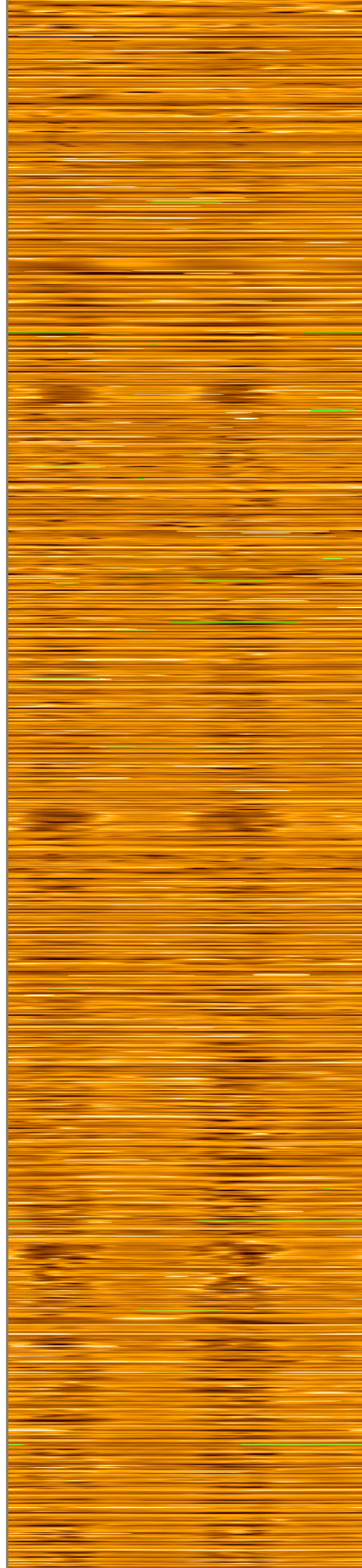
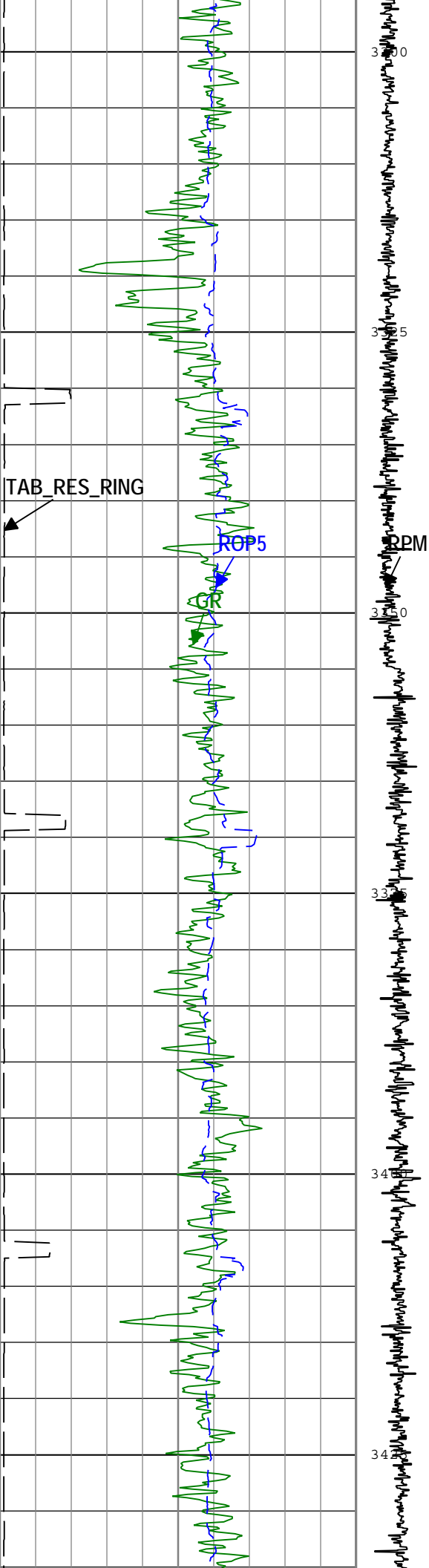
### Log

Run1: Drilling

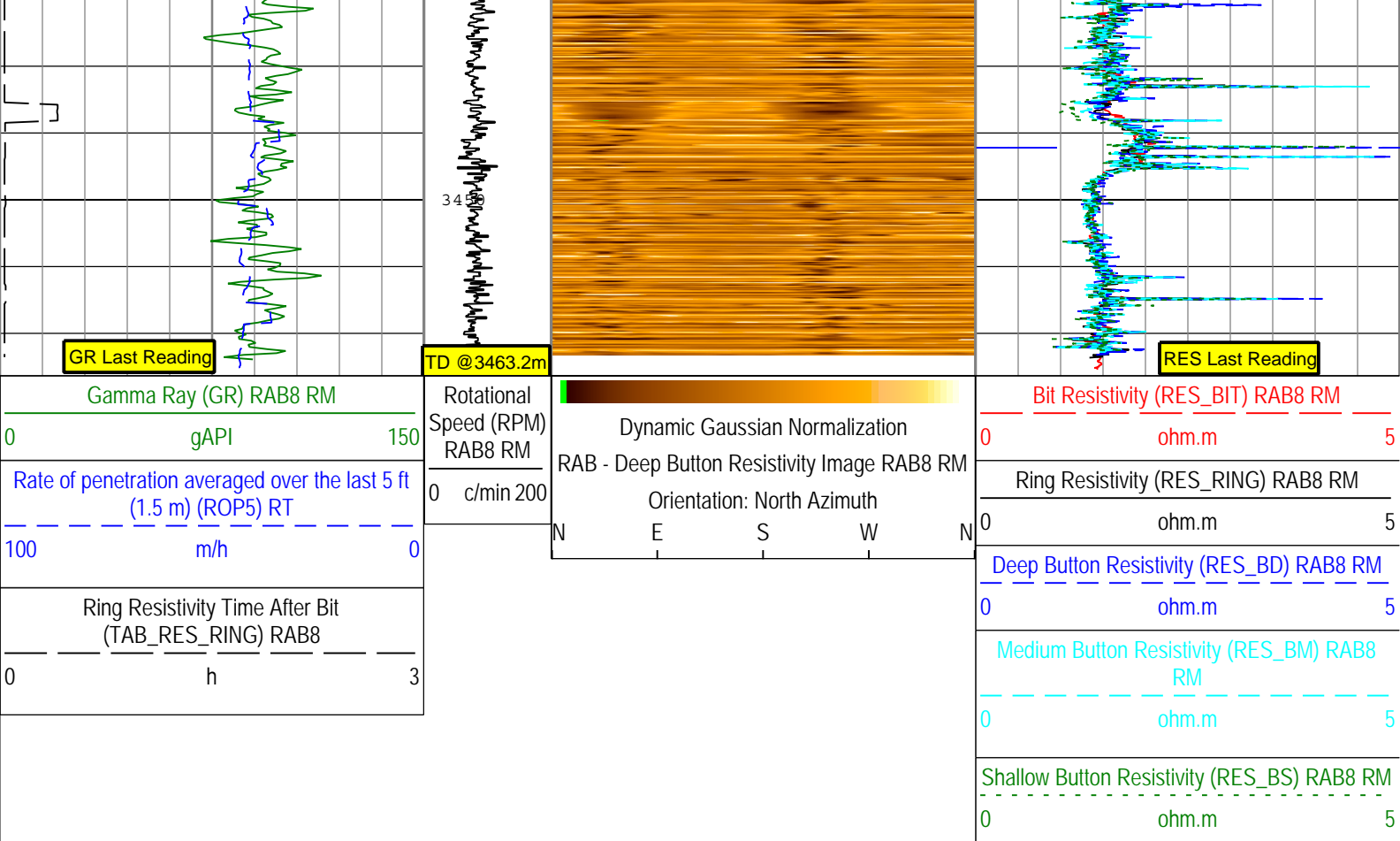
Description: GVR Resistivity, Deep Button Image Format: Log ( GVR Image-APWD Depth RM\_NoTick ) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 10-Jan-2013 17:12:12











Description: GVR Resistivity, Deep Button Image Format: Log ( GVR Image-APWD Depth RM\_NoTick ) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 10-Jan-2013 17:12:12

### Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHT	Bottom Hole Temperature	Borehole	5	degC
BS	Bit Size	DNMSESSION	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	
GGRD	Geothermal Gradient	Borehole	18.23	degC/km
GRSE_RM	Generalized Mud Resistivity Selection for Recorded Mode	Borehole	REMS	
GTSE_RT	Generalized Temperature Selection for Realtime Mode	Borehole	GTEM_LINEST(RT)	
MST	Mud Sample Temperature	Borehole	20.3	degC
RES_BD_IMG_SEL	GVR Output Resistivity Image Selection, Deep Button	RAB8	Compensated Uphole	
RMS	Resistivity of Mud Sample	Borehole	0.22	ohm.m
SHT	Surface Hole Temperature	Borehole	1.5	degC
TD	Total Measured Depth	Borehole	3463.2	m
TEMP_SEL_RAB	RAB Temperature Selection	RAB8	Tool	

### Depth Zone Parameters

Parameter	Value	Start ( m )	Stop ( m )
BS	0	3105	3113
BS	12.25	3113	3463.17

All depth are actual.

### Tool Control Parameters

Parameter	Description	Tool	Value	Unit
OFFBTM_TU	Threshold for deciding whether the bit is off bottom	DNMSESSION	0.6	m

# Run1

## Integration Summary

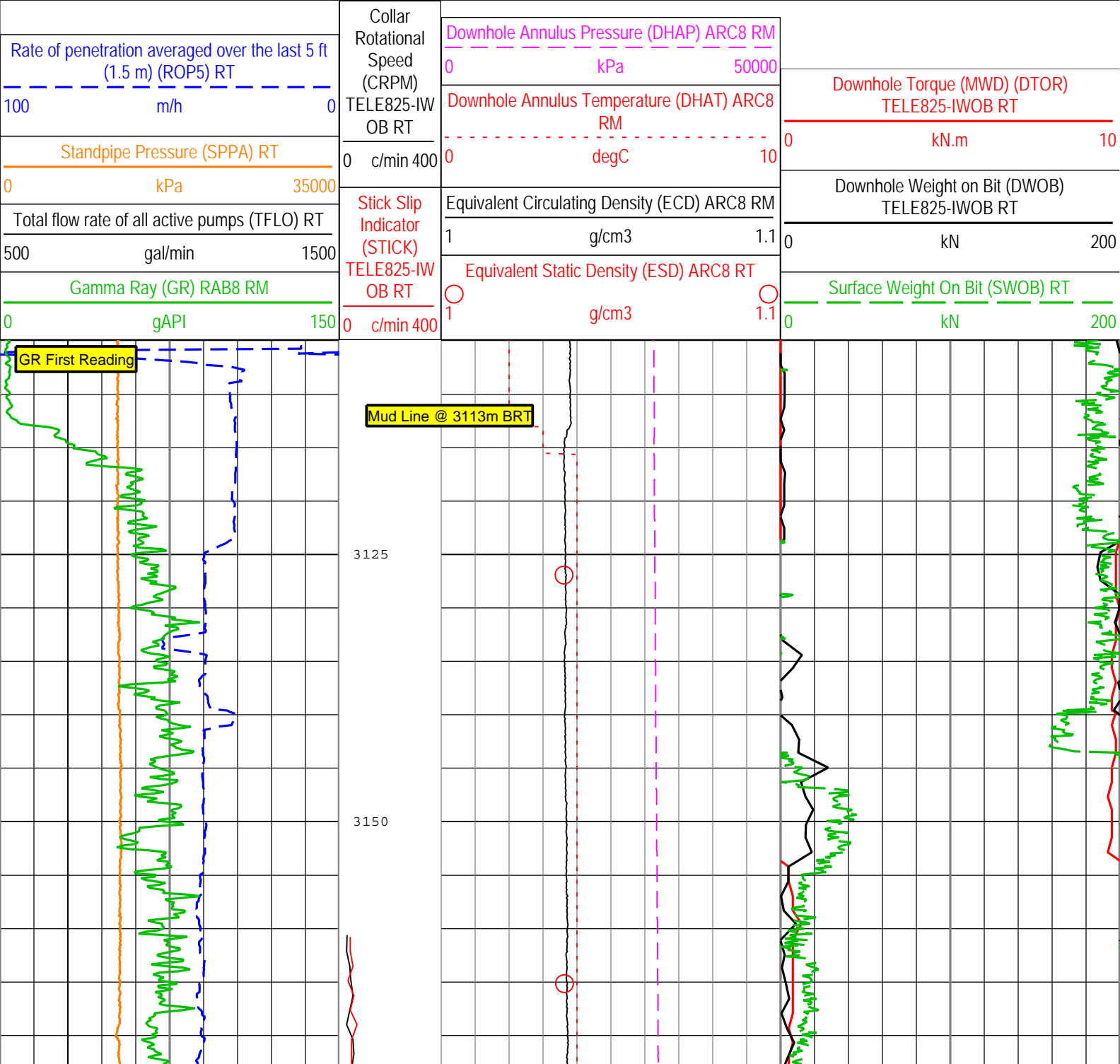
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit			
<b>Pass Summary</b>							
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run1	Drilling	Down	3080.05 m	3463.19 m	26-Dec-2012 3:46:59 AM	26-Dec-2012 7:56:41 PM	

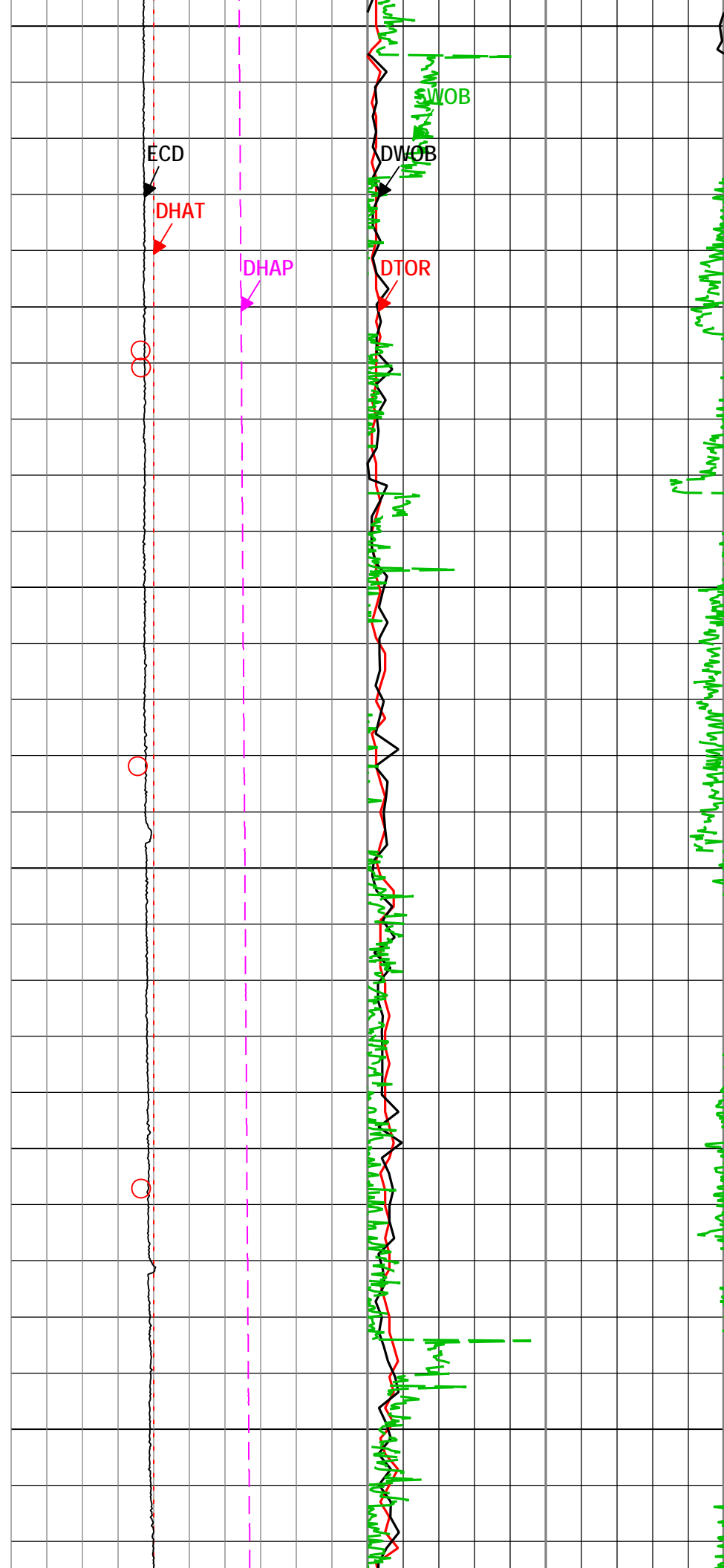
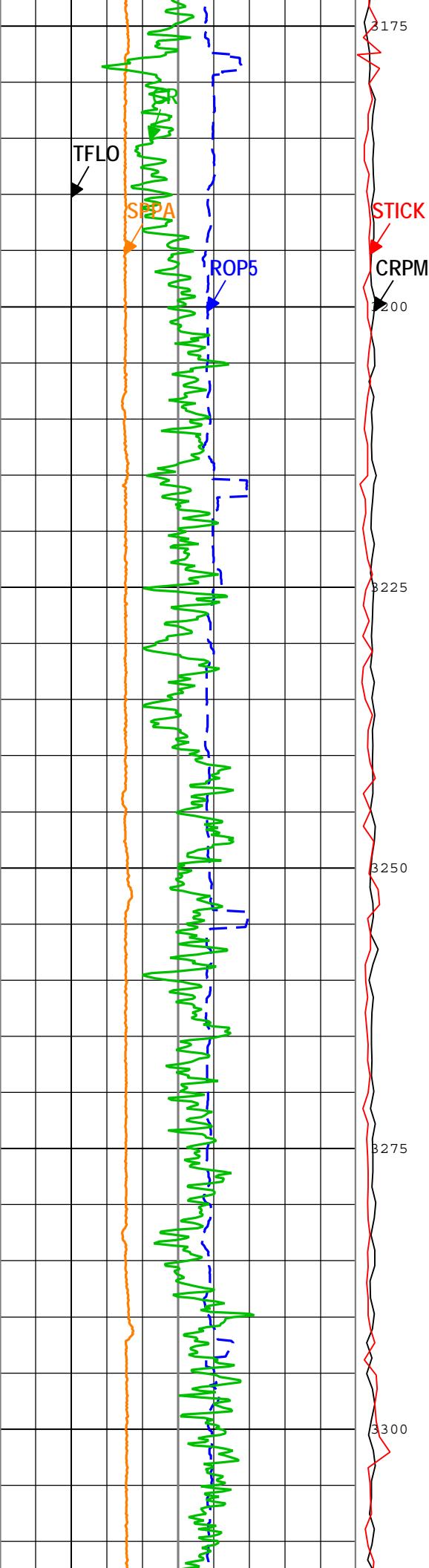
All depths are referenced to toolstring zero

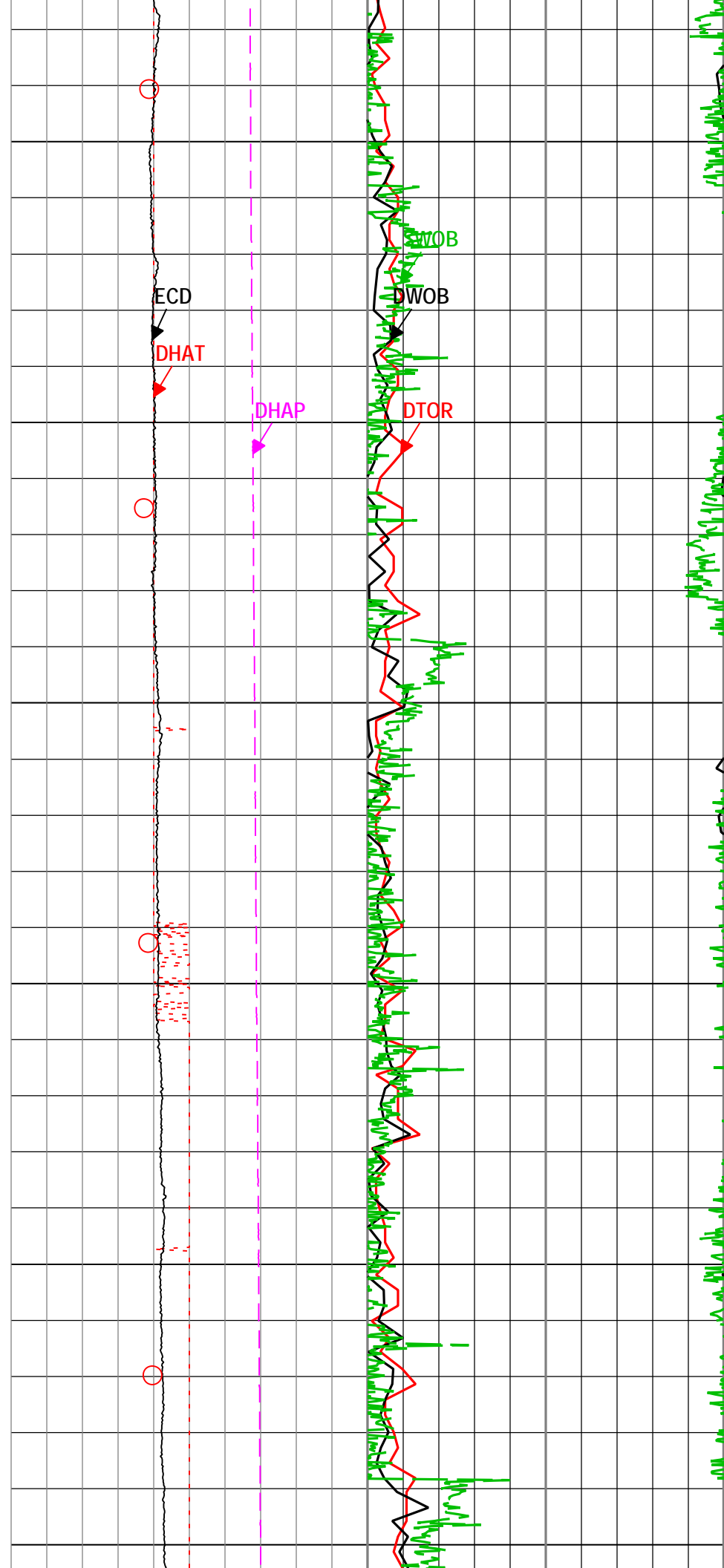
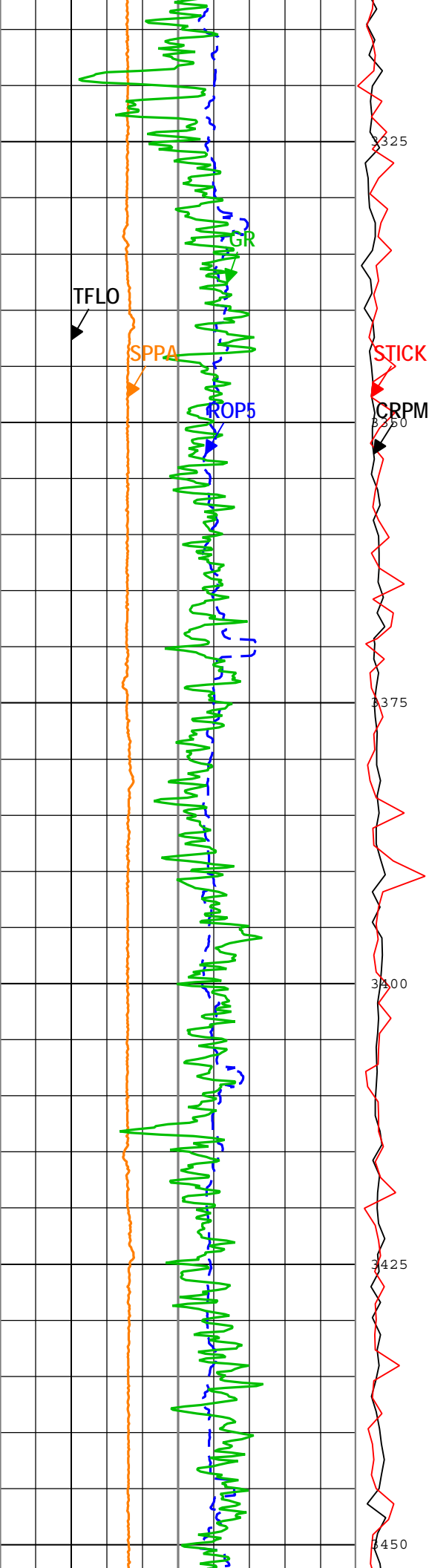
## Log

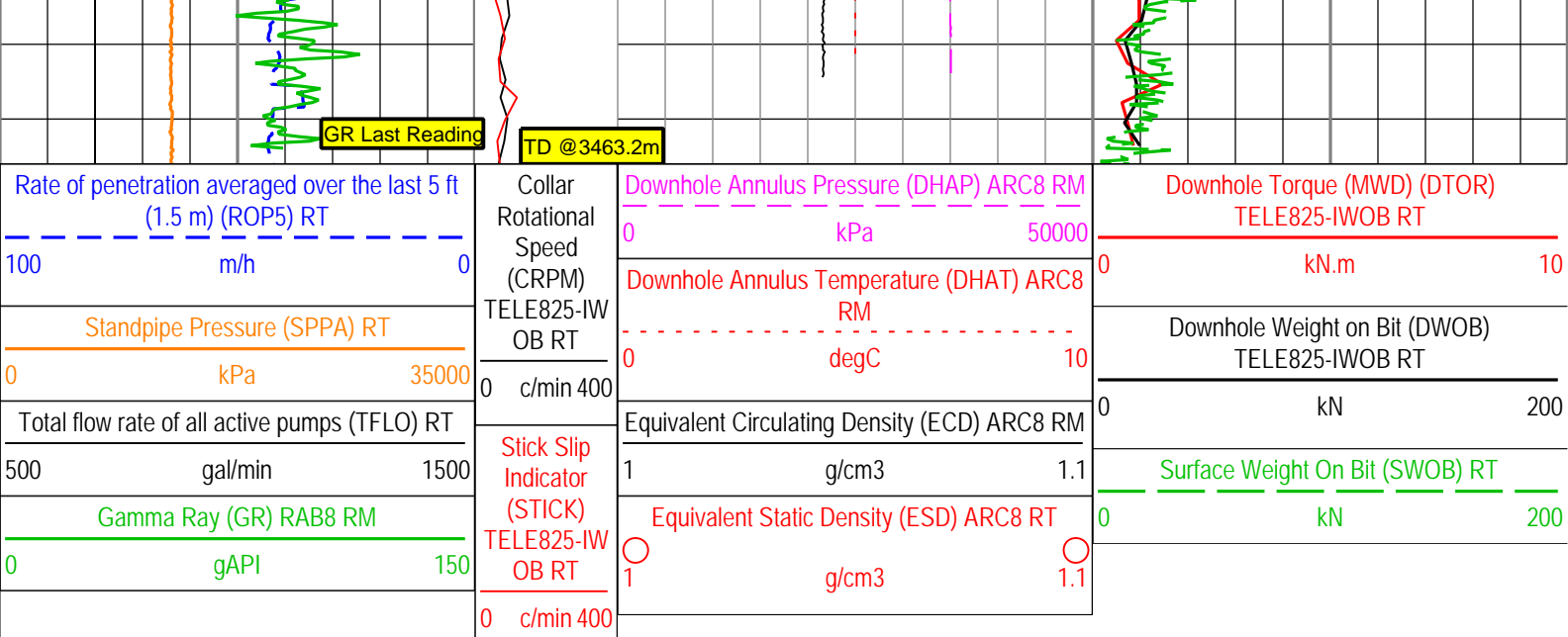
Run1: Drilling

Description: Format: Log ( DML Depth RM ) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 10-Jan-2013 17:12:16









Description: Format: Log ( DML Depth RM ) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 10-Jan-2013 17:12:16

## Calibration Report

### RAB8 (GeoVision Resistivity 825) Calibration - Run Run1

Primary Equipment :

Electronics Chassis

RBEC

865

### M21V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Monitor 2 at T1 Calibration Coefficient		Master	1.00000	0.90000	1.02224	1.20000	

### M22V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Monitor 2 at T2 Calibration Coefficient		Master	1.00000	0.90000	0.99342	1.20000	

### M01V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Monitor 0 at T1 Calibration Coefficient		Master	1.00000	0.90000	1.05380	1.20000	

### M02V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Monitor 0 at T2 Calibration Coefficient		Master	1.00000	0.90000	1.04467	1.20000	

### R1V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Ring at T1 Calibration Coefficient		Master	0.01000	0.00950	0.01096	0.01250	

### R2V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Ring at T2 Calibration Coefficient		Master	0.01000	0.00950	0.01097	0.01250	

### BDM1 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Deep at T1 Calibration Coefficient		Master	0.00067	0.00057	0.00066	0.00077	

### BDM2 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Deep at T2 Calibration Coefficient		Master	0.00067	0.00057	0.00066	0.00077	

### BMM1 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Medium at T1 Calibration Coefficient		Master	0.00067	0.00057	0.00069	0.00077	

### BMM2 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Medium at T2 Calibration Coefficient		Master	0.00067	0.00057	0.00069	0.00077	

### BSM1 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Shallow at T1 Calibration Coefficient		Master	0.00067	0.00057	0.00067	0.00077	

### BSM2 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Button Shallow at T2 Calibration Coefficient		Master	0.00067	0.00057	0.00067	0.00077	

### PGR - Gamma Ray: Blanket

Master (Time Frame File): 02:46:22 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray API Conversion Factor		Master	8.5500	6.5000	10.2700	10.6000	

**Company:** JAMSTEC  
**Well:** C0018B  
**Field:** Nankai Trough - Kumano Basin  
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**Country:** Japan



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Gamma Ray - Resistivity - Image - APWD

12.25in Recorded Mode Log. Measured Depth 1:500