

geoVISION - APWD

Gamma Ray - Resistivity - Image - APWD
 12.25in Recorded Mode Log. True Vertical Depth
 Sub Sea 1:200



Company: JAMSTEC

Well: C0022A

Field: Nankai Trough - Kumano Basin

Rig Name: Chikyuu

Prefecture: Wakayama

Country: Japan

Latitude: 33° 13' 4.08" N Custom: 12JAP0022

Longitude: 136° 43' 27.24" E Rig Name: Chikyuu

Block: Rig Type: Drill Vessel

FL: Philippine Sea

FL1: X = 660 683.559m

FL2: Y = 3 676 757.447m

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



Ground Level: 2675.50 m

Acquisition Dates: 28-Dec-2012 -- 29-Dec-2012

Other Services:

Log Interval: 2700.00(m) -- 3124.47(m)

DWOB, DTOR

Index Types: SSTVD

Direction and Inclination

Index Scales: 1:200

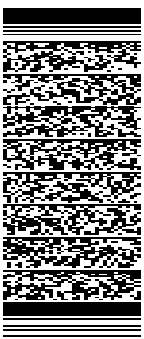
Drilling Mechanics

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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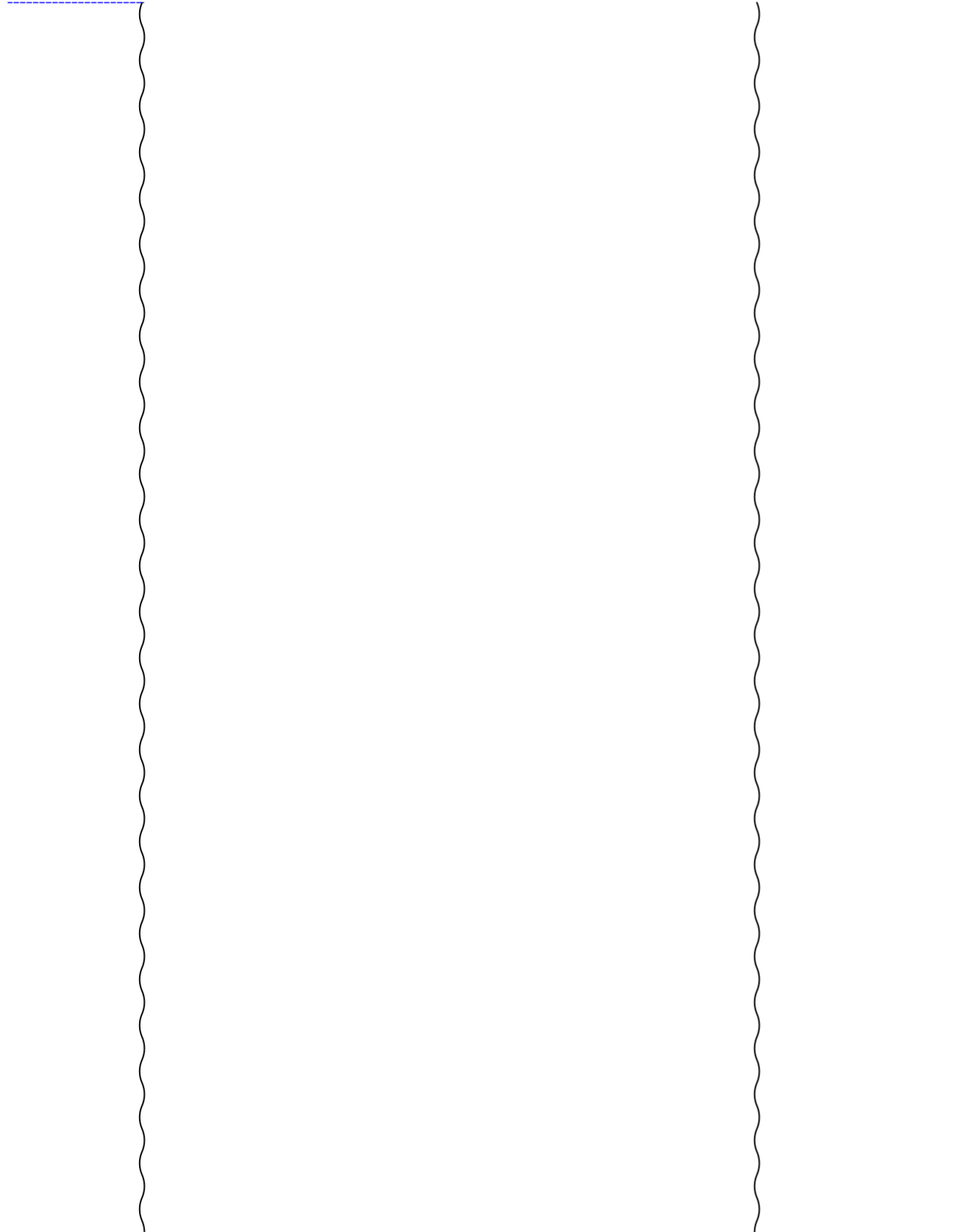
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Well Sketch

Driller Depth

2704.00 m



3124.48 m

Open Hole 12.25in

Borehole Size/Casing Record

| | | | | | |
|----------------------|---------|--|--|--|--|
| Bit | | | | | |
| Bit Size (in) | 12.25 | | | | |
| Top Driller (m) | 2704 | | | | |
| Bottom Driller (m) | 3124.48 | | | | |

Operational Run Summary

| Parameter (unit) | Run 1 | | | | |
|----------------------------------|------------------------------|--|--|--|--|
| Date Log Started | 28-Dec-2012 | | | | |
| Time Log Started | 05:23:14 | | | | |
| Date Log Finished | 29-Dec-2012 | | | | |
| Time Log Finished | 23:42:40 | | | | |
| Bit Size (in) | 12.250 | | | | |
| Bit Start Depth (m) | 2704.00 | | | | |
| Bit Stop Depth (m) | 3124.48 | | | | |
| Top Log Interval (m) | 2704.00 | | | | |
| Bottom Log Interval (m) | 3124.22 | | | | |
| Max Hole Deviation (deg) | 0.67 | | | | |
| Azimuth of Max Deviation (deg) | 350.64 | | | | |
| Logging Unit Number | OLU-KC-504 | | | | |
| Logging Unit Location | Comp Deck | | | | |
| Recorded By | Wang Feng TomasCosendey | | | | |
| Witnessed By | Moe Kyaw Thu Yoshi Sanada | | | | |
| Service Order Number | 12JAP0022 | | | | |

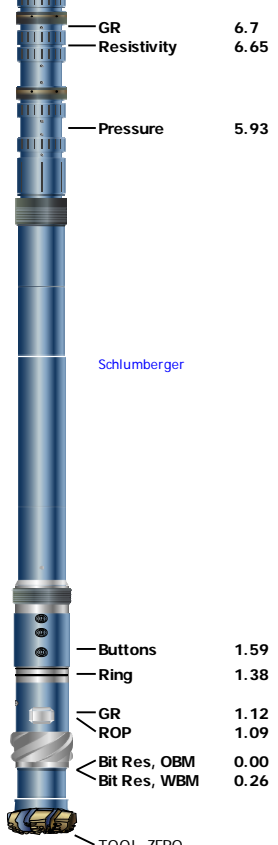
Borehole Fluids

| Parameter(unit) | Run 1 | | | | |
|------------------------------------|-------------|--|--|--|--|
| Fluid Type | Water | | | | |
| Fluid Name | Sea Water | | | | |
| Max Recorded Temperatures (degC) | 7 | | | | |
| Source of Sample | Active Tank | | | | |
| Salinity (ppm) | 29741.6 | | | | |
| Density (g/cm3) | 1.038 | | | | |

| | | | | | | |
|--------------------------------|-------------|--|--|--|--|--|
| Funnel Viscosity (s) | | | | | | |
| Fluid Loss (cm3) | | | | | | |
| PH | 10.5 | | | | | |
| Source RMF | | | | | | |
| RMC | Pressed | | | | | |
| RM @ Meas Temp (ohm.m@degC) | 0.23 @ 20.3 | | | | | |
| RMF @ Meas Temp (ohm.m@degC) | 0.15 @ 20 | | | | | |
| RMC @ Meas Temp (ohm.m@degC) | | | | | | |
| RM @ BHT (ohm.m@degC) | 0.35 @ 6 | | | | | |
| RMF @ BHT (ohm.m@degC) | | | | | | |
| RMC @ BHT (ohm.m@degC) | NaN @ 6 | | | | | |
| Total Solid (%) | | | | | | |
| High Gravity Solids (%) | | | | | | |

Remarks and Equipment Summary

| Run1: Toolstring | | | | Run1: Remarks | | | | | |
|--------------------------------------|-----------------|-------------------------|--------|--|--|----------------|-------|--------------|--|
| Equip name TELE825-IWOB:G 0159 | Length 18.99 | MP name Schlumberger | Offset | <p>Data presented is Recorded Mode data which was acquired while drilling.</p> <p>Depth reference is driller's depth measured from Rotary Table.</p> <p>geoVISION record rate is 5s, APWD record rate is 5s.</p> <p>geoVISION GR is corrected for bit size, tool size and mud weight. No potassium concentration in mud.</p> <p>geoVISION resistivity is environmentally corrected for bit size and mud resistivity.</p> <p>Reason for POOH: Well TD.</p> <p>Drilling Time: 13.74 hrs</p> <p>Pumping Time: 19.06 hrs</p> <p>Warning in calibration list is due to MaxWell bug.</p> | | | | | |
| | | | | | | | | | |
| | | | | | | D&I | 14.21 | | |
| | | | | | | GR | 13.56 | | |
| | | | | | | ROP | 11.85 | | |
| | | | | | | IWOB | 10.84 | | |
| | | | | | | ARC8:2791-SRPC | 10.08 | Schlumberger | |
| | | | | | | ROP | 7.76 | | |



Lengths are in m
 Maximum Outer Diameter = 12.250 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 : | 0.94 deg | | |

Rig Location

| | | | |
|------------|-----------------|-------------|-------------------|
| Latitude : | 33° 13' 4.08" N | Longitude : | 136° 43' 27.24" 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 : | 27-Dec-2012 |
| Computed Location B : | 45896.59 nT +/- 300.00nT | Used Location B : | 45896.59 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 : | 46.71 deg +/- 0.45deg | Used Magnetic Dip : | 46.71 deg +/- 0.45deg |
| Computed Magnetic Dec : | -6.71 deg | Used Magnetic Dec : | -6.71 deg |
| Computed Total Correction : | -7.65 deg | Used Total Correction : | -7.65 deg |

Survey Quality Index

0 : Long Survey passed all criteria 3 : Long Survey failed G criteria 9 : Manual
 28 : Tie-In Point

Survey Correction Index

0 : No correction

Survey Description Index

0 : Not Flagged Survey

| 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 | 2704.00 | 0.00 | 0.00 | 2704.00 | 2704.00 | 0.00 | 0.00 | 0.00 | 0.00 | 90.00 | 0.00 | Other | 9 | 0 | 0 |
| 3 | 2708.80 | 0.33 | 60.18 | 4.80 | 2708.80 | 0.01 | 0.01 | 0.01 | 0.01 | 60.18 | 2.04 | TeleScope | 0 | 0 | 0 |
| 4 | 2747.11 | 0.49 | 219.94 | 38.31 | 2747.11 | -0.07 | -0.07 | 0.00 | 0.07 | 179.41 | 0.63 | TeleScope | 0 | 0 | 0 |
| 5 | 2785.26 | 0.37 | 219.37 | 38.15 | 2785.26 | -0.29 | -0.29 | -0.18 | 0.34 | 212.52 | 0.10 | TeleScope | 3 | 0 | 0 |

| | | | | | | | | | | | | | | | |
|----|---------|------|--------|-------|---------|-------|-------|-------|------|--------|------|-----------|---|---|---|
| 6 | 2862.46 | 0.29 | 291.96 | 77.21 | 2862.46 | -0.40 | -0.40 | -0.52 | 0.66 | 231.99 | 0.15 | TeleScope | 3 | 0 | 0 |
| 7 | 2900.39 | 0.32 | 318.11 | 37.92 | 2900.38 | -0.29 | -0.29 | -0.67 | 0.73 | 246.78 | 0.11 | TeleScope | 0 | 0 | 0 |
| 8 | 2939.10 | 0.43 | 340.66 | 38.71 | 2939.10 | -0.07 | -0.07 | -0.79 | 0.80 | 264.83 | 0.14 | TeleScope | 0 | 0 | 0 |
| 9 | 2977.01 | 0.49 | 347.72 | 37.91 | 2977.00 | 0.22 | 0.22 | -0.88 | 0.90 | 284.09 | 0.06 | TeleScope | 0 | 0 | 0 |
| 10 | 3014.74 | 0.58 | 350.18 | 37.73 | 3014.74 | 0.56 | 0.56 | -0.94 | 1.10 | 300.90 | 0.07 | TeleScope | 0 | 0 | 0 |
| 11 | 3052.63 | 0.64 | 351.55 | 37.88 | 3052.62 | 0.96 | 0.96 | -1.01 | 1.39 | 313.67 | 0.05 | TeleScope | 0 | 0 | 0 |
| 12 | 3091.39 | 0.67 | 350.64 | 38.76 | 3091.38 | 1.40 | 1.40 | -1.07 | 1.76 | 322.42 | 0.03 | TeleScope | 0 | 0 | 0 |

Run1

Integration Summary

| Output Channel(s) | Output Description | Input Parameter | Output Value | Unit |
|-------------------|--------------------|-----------------|--------------|------|
|-------------------|--------------------|-----------------|--------------|------|

Pass Summary

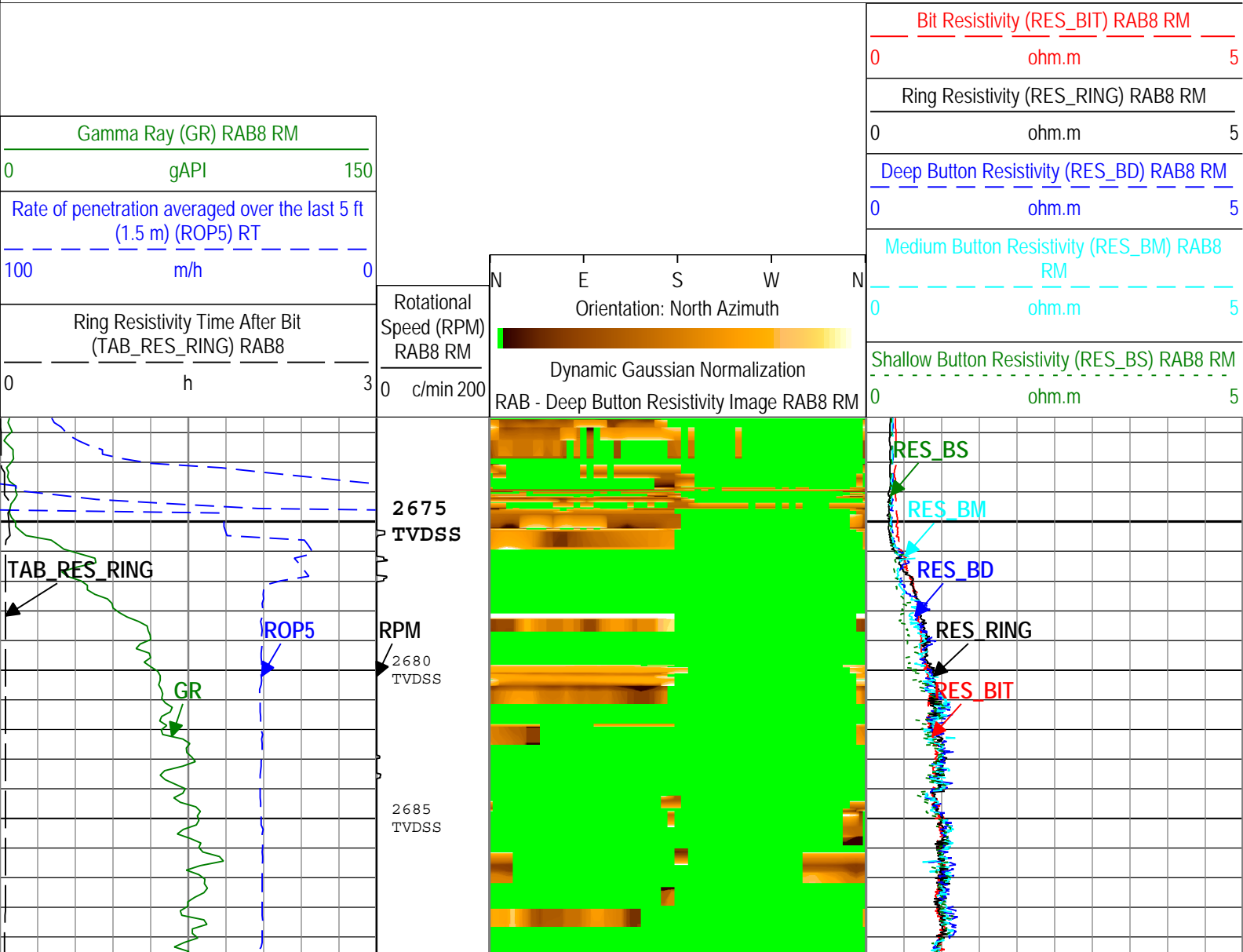
| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | Include Parallel Data |
|----------|----------------|-----------|-----------|-----------|------------------------|-------------------------|-----------------------|
| Run1 | Drilling | Down | 2684.50 m | 3124.48 m | 28-Dec-2012 5:23:14 AM | 29-Dec-2012 11:42:40 PM | |

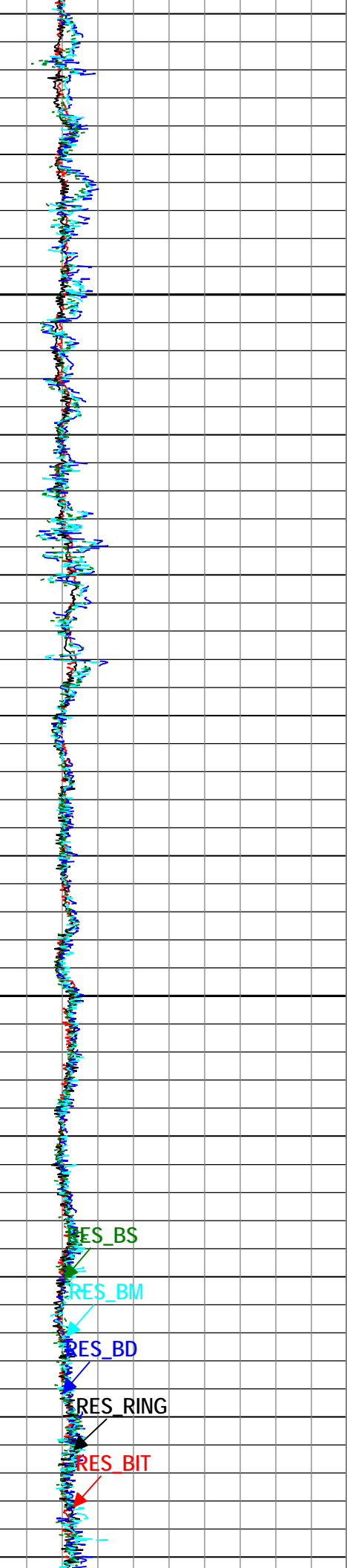
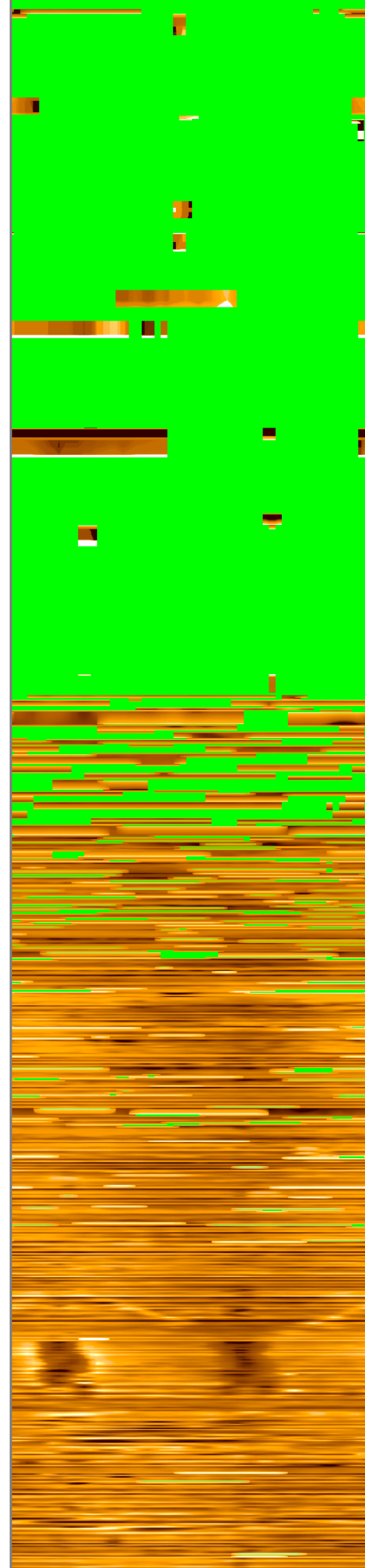
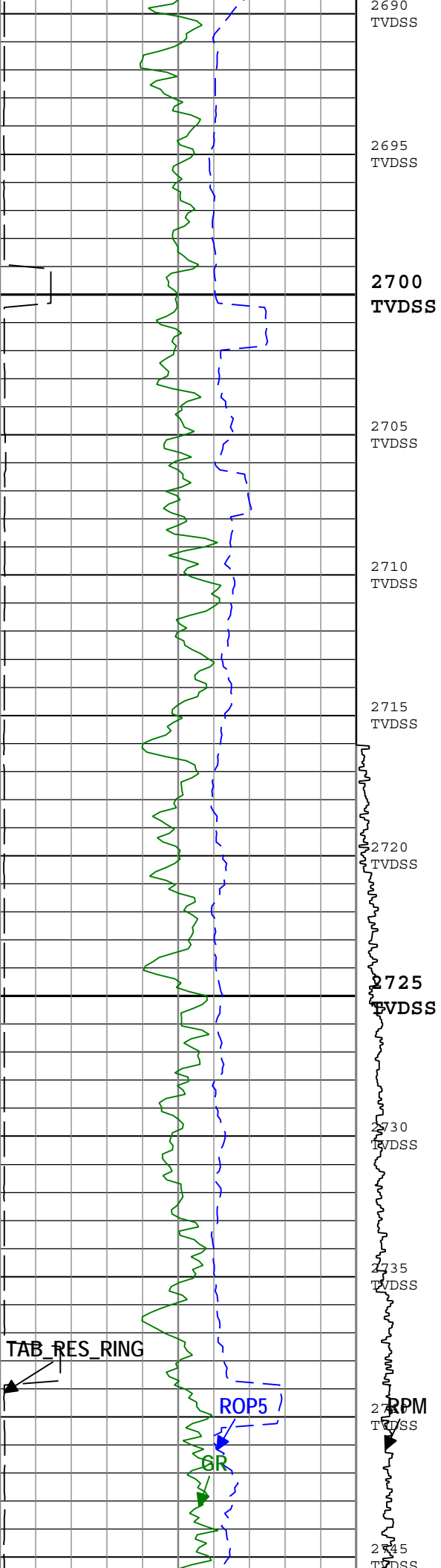
All depths are referenced to toolstring zero

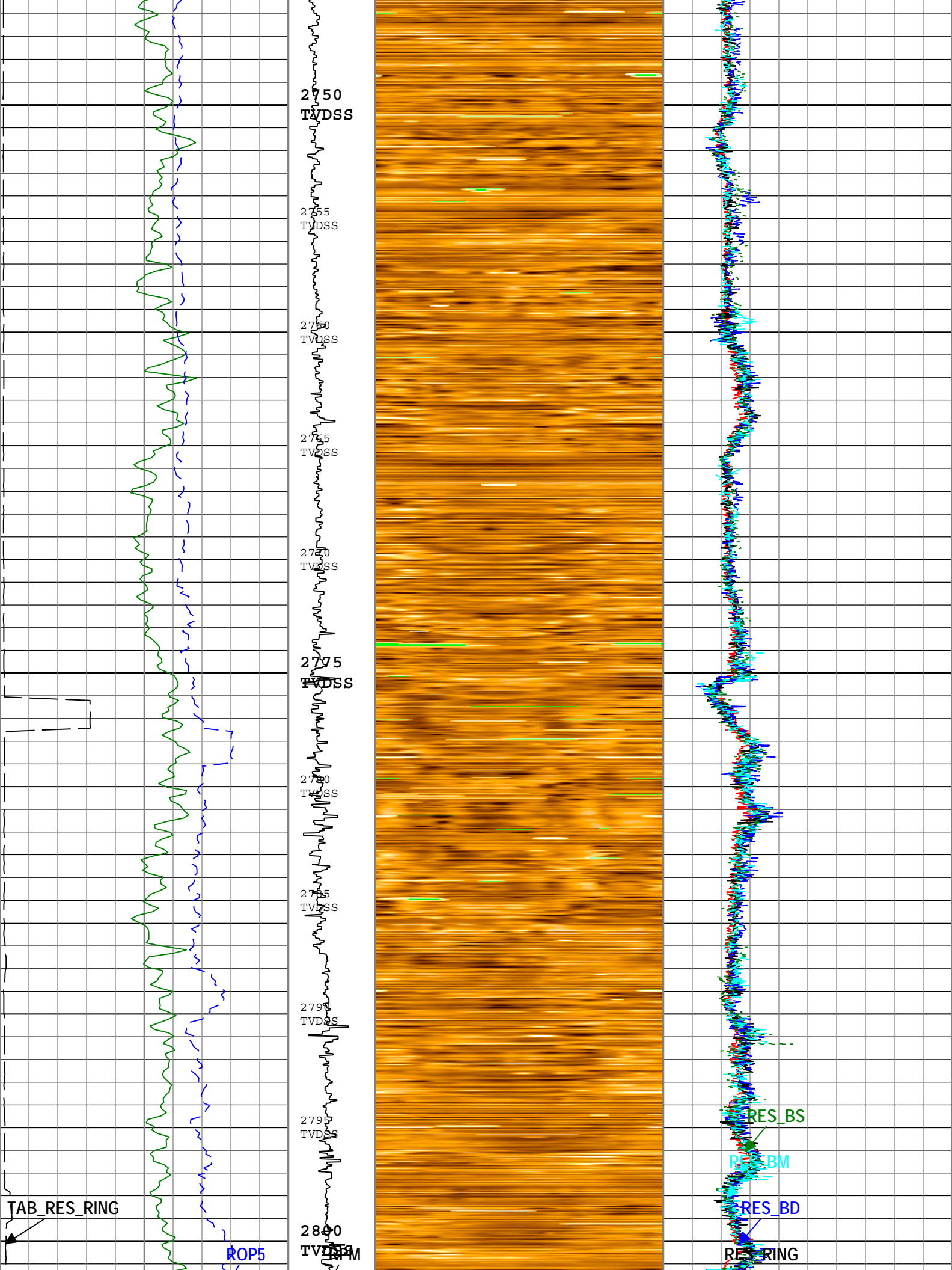
Log

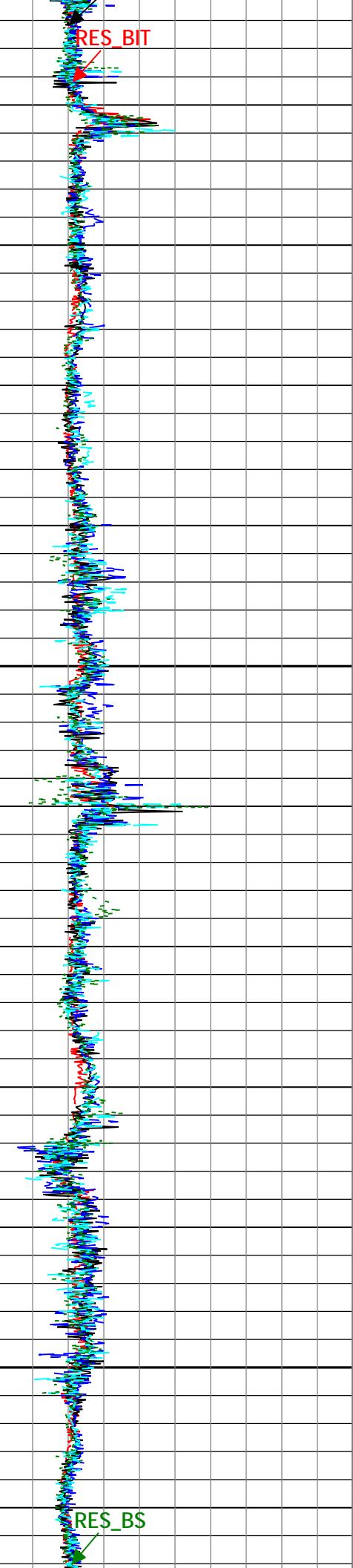
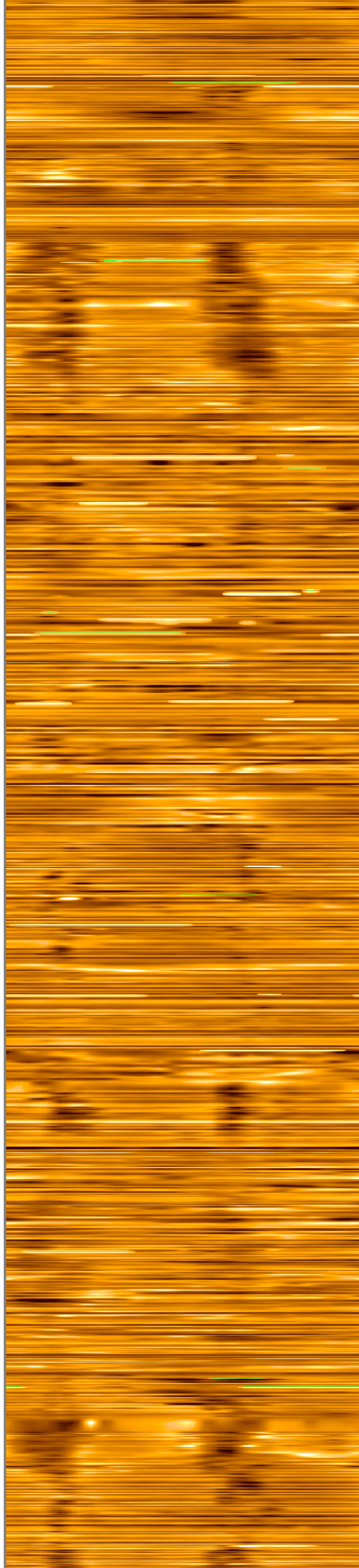
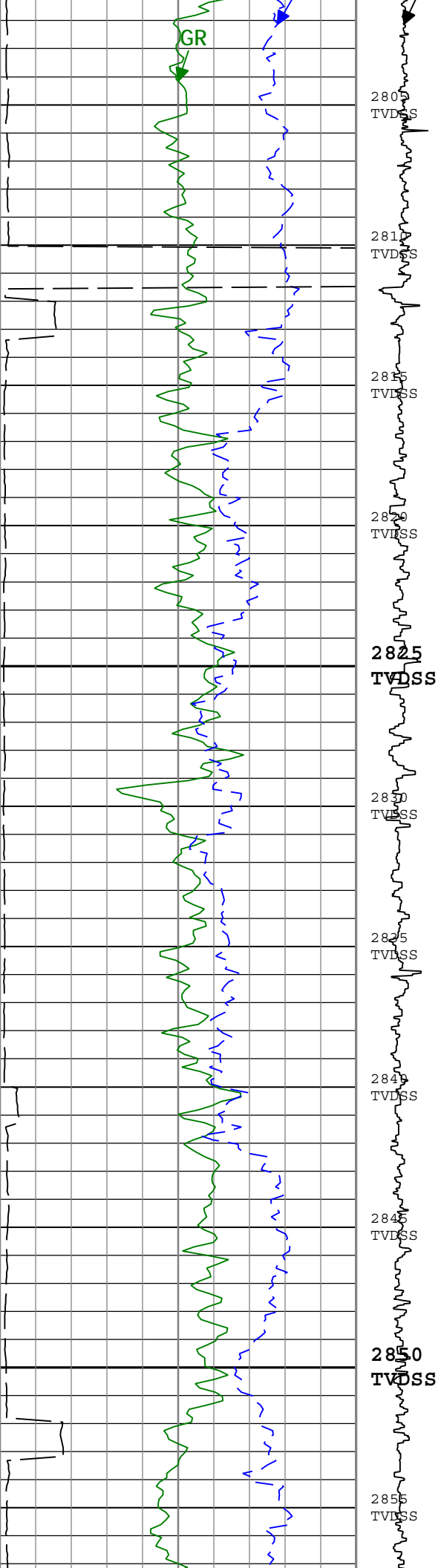
Run1: Drilling

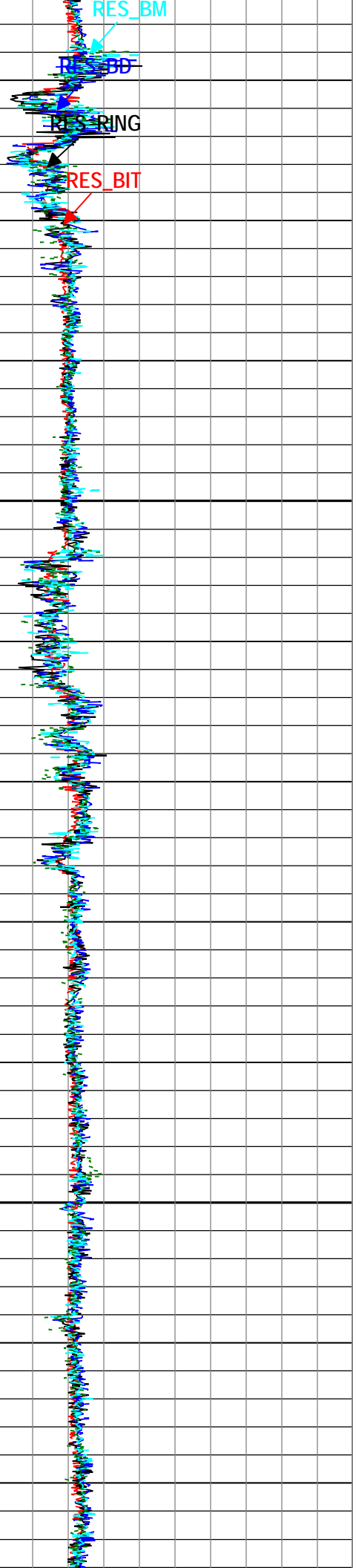
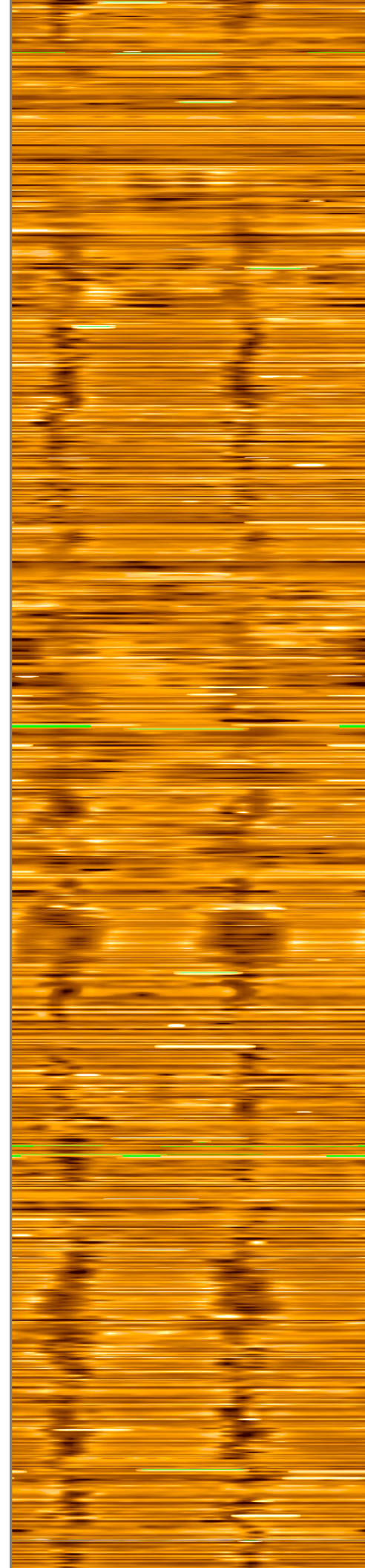
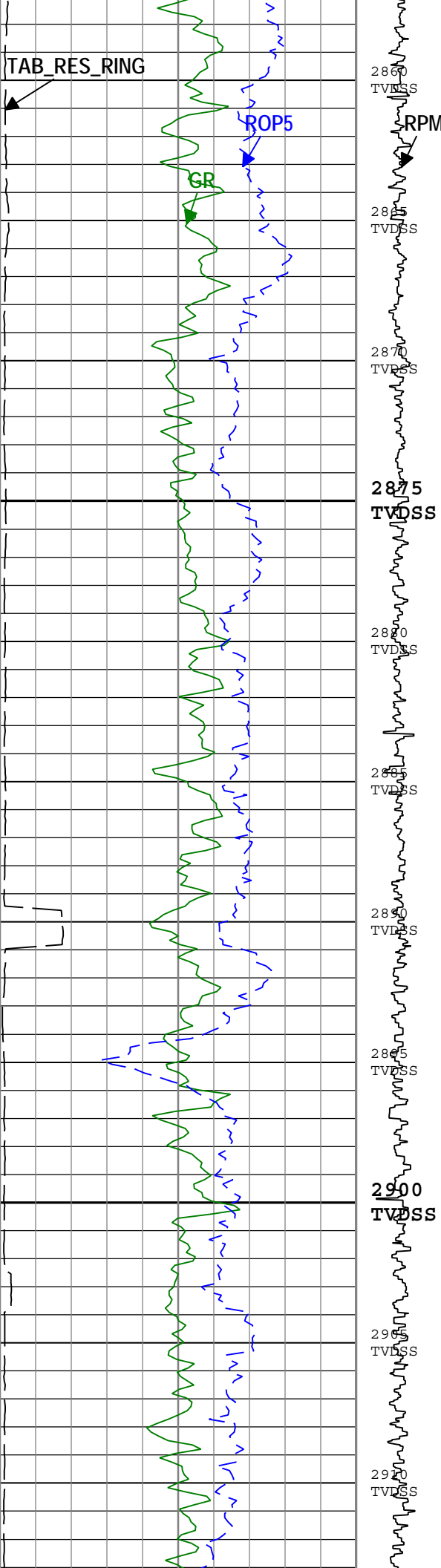
Description: GVR Resistivity, Deep Button Image Format: Log (GVR Image-APWD Depth RM_NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 17:38:22

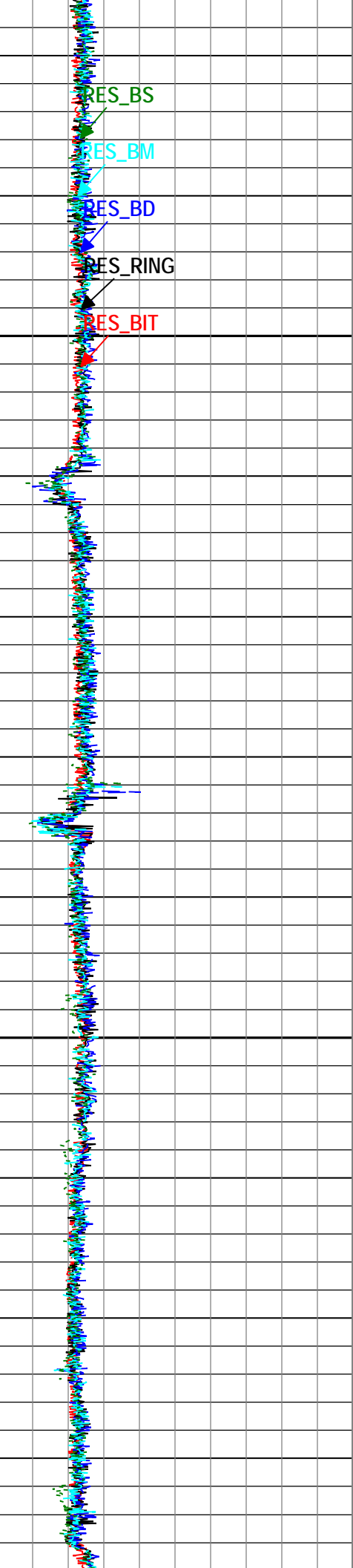
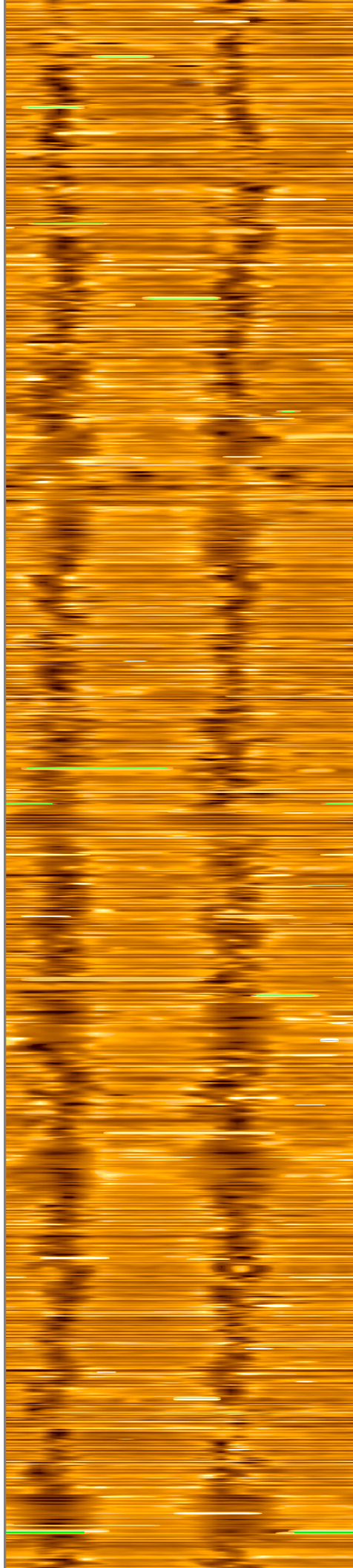
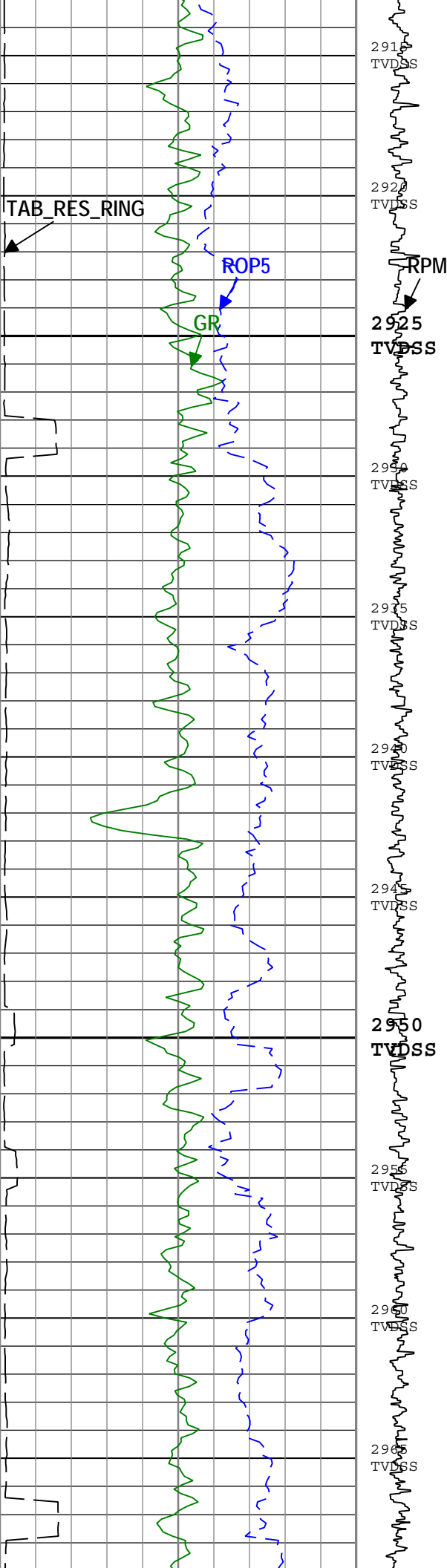


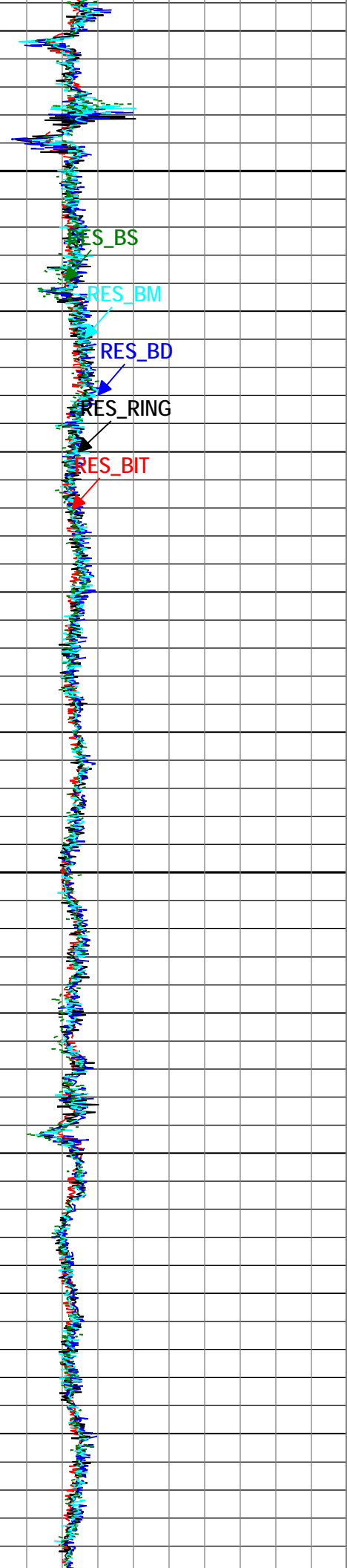
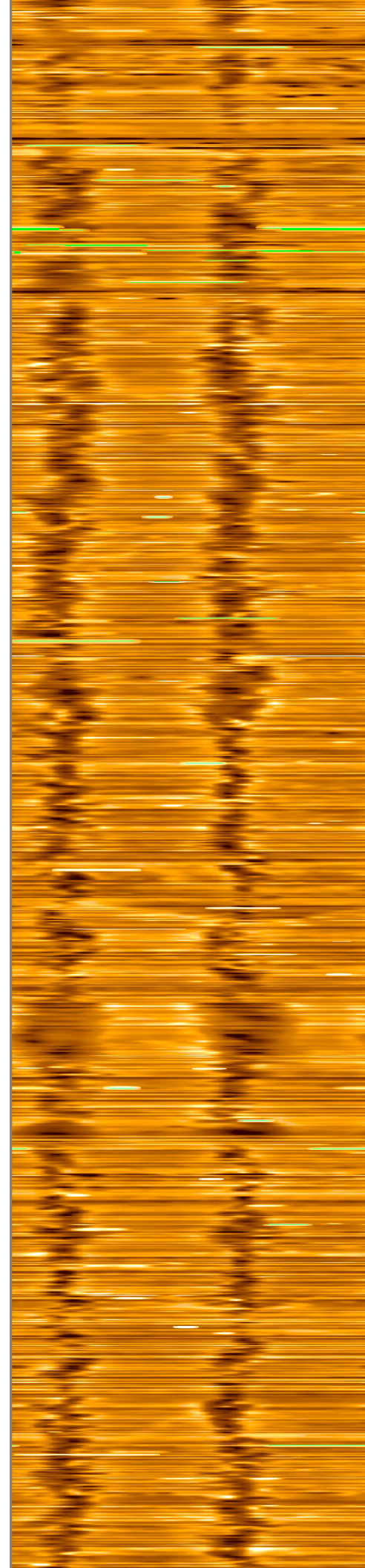
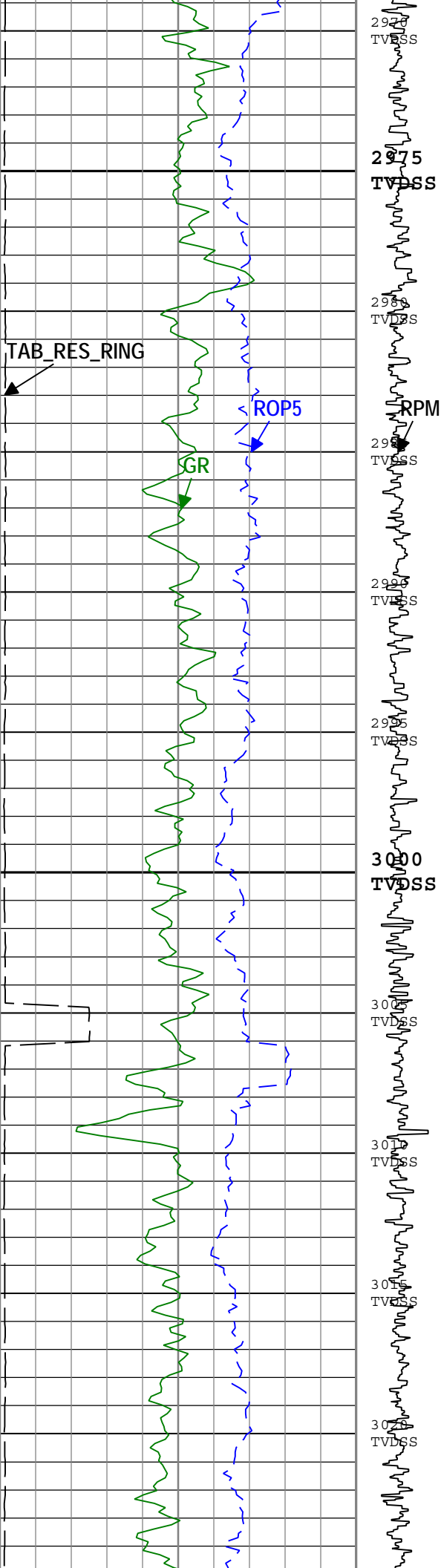


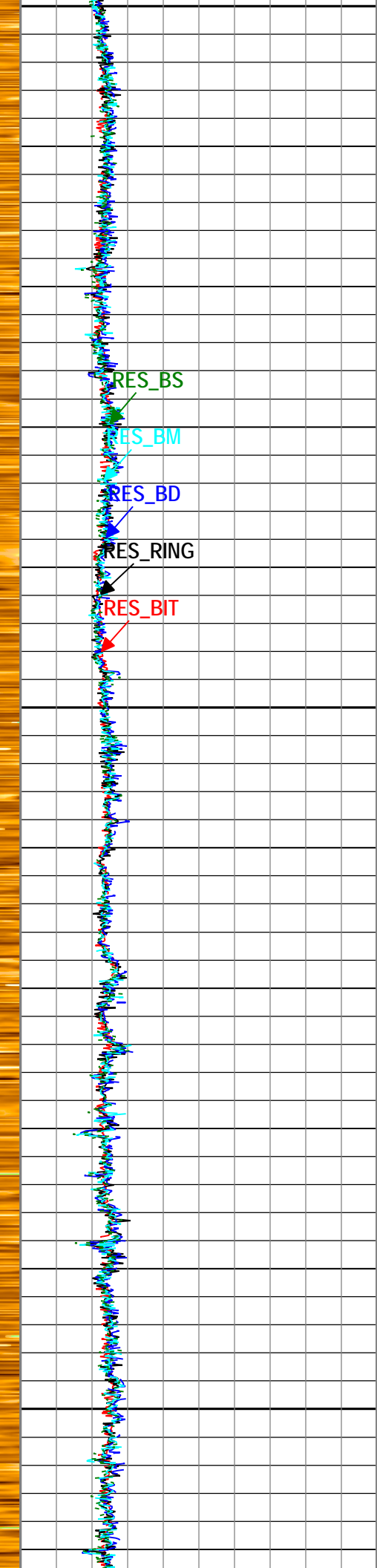
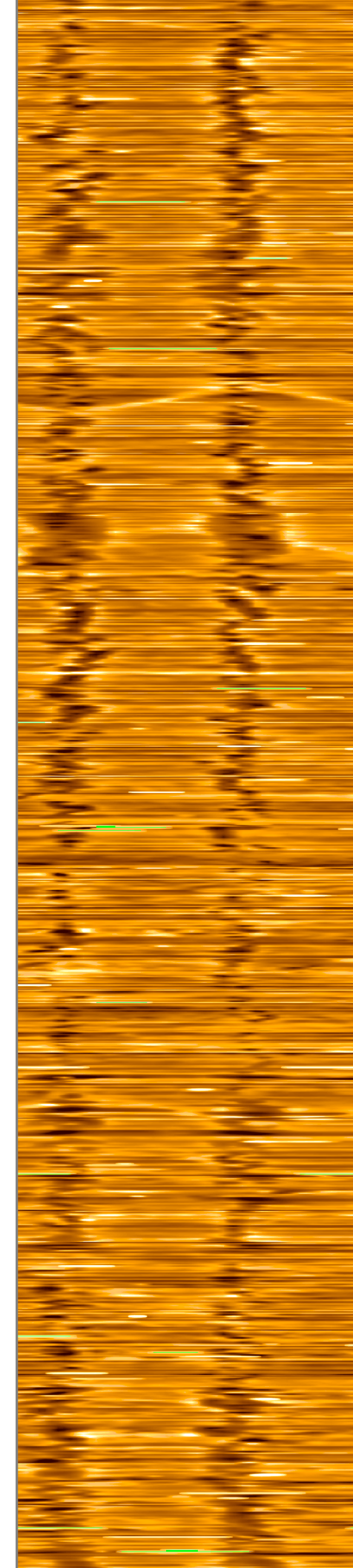
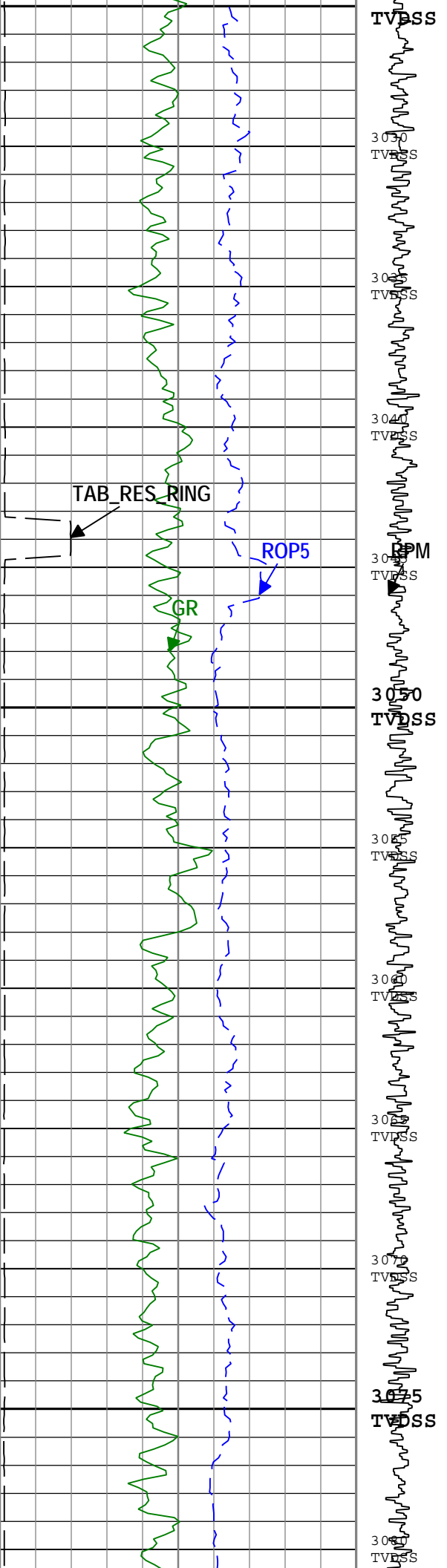


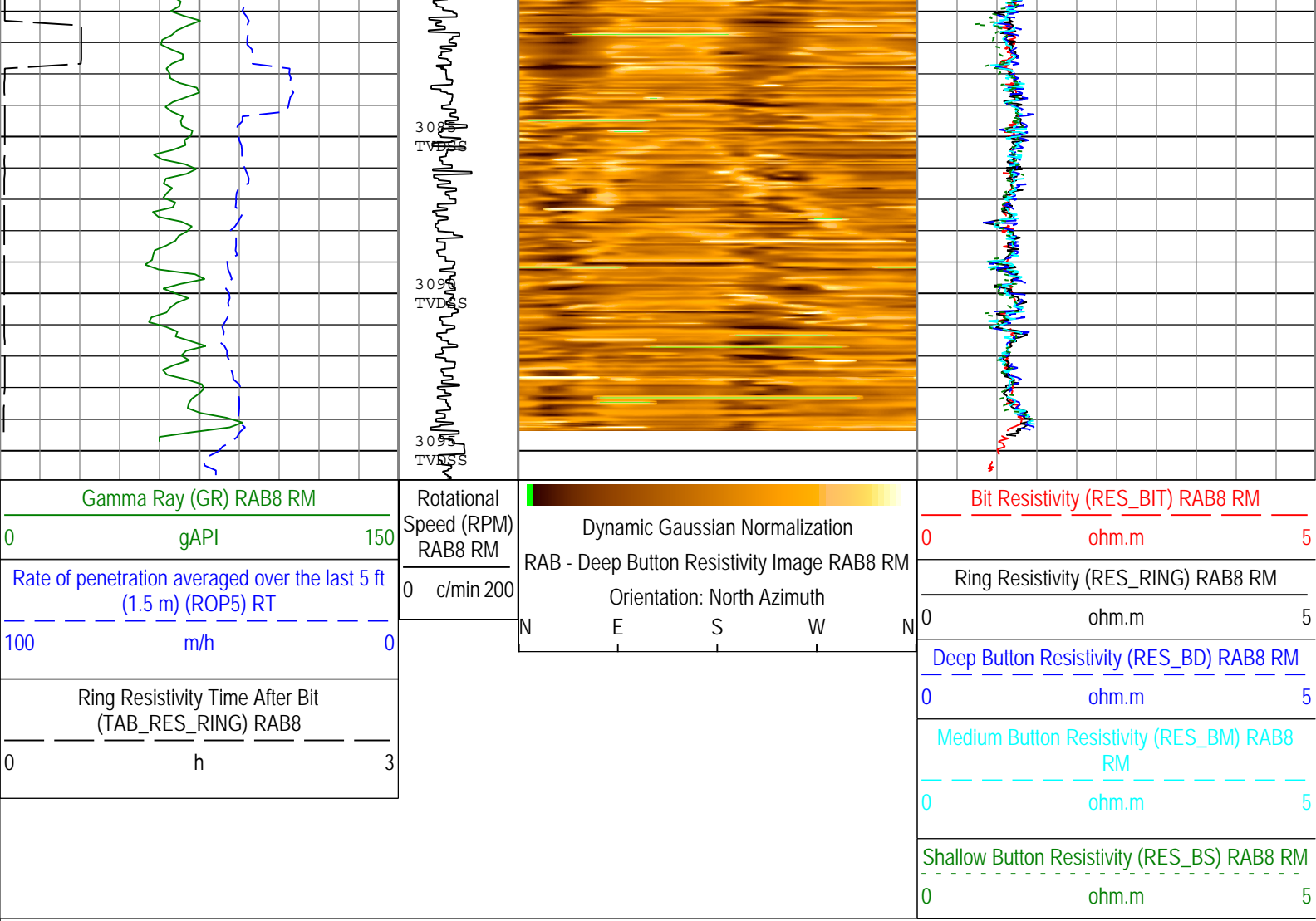












Description: GVR Resistivity, Deep Button Image SSTVD Format: Log (GVR Image-APWD Depth RM_NoTick) Index Scale: 1:200 Index Unit: m Index Type:

Channel Processing Parameters

| Parameter | Description | Tool | Value | Unit |
|----------------|---|------------|--------------------|-------|
| BHK | Drilling Fluid Potassium Concentration | Borehole | 0 | % |
| BHT | Bottom Hole Temperature | Borehole | 6 | degC |
| DEPTH_SEL | Depth Selection Parameter | DNMSESSION | Driller's Depth | |
| DFD | Drilling Fluid Density | Borehole | 1.038 | g/cm3 |
| DFT | Drilling Fluid Type | Borehole | Water | |
| 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 | 0.23 | ohm.m |
| SHT | Surface Hole Temperature | Borehole | 2 | degC |
| TD | Total Measured Depth | Borehole | 3124.48 | m |

Tool Control Parameters

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

Run1

Integration Summary

Integration Summary

| Output Channel(s) | Output Description | Input Parameter | Output Value | Unit |
|-------------------|--------------------|-----------------|--------------|------|
|-------------------|--------------------|-----------------|--------------|------|

Pass Summary

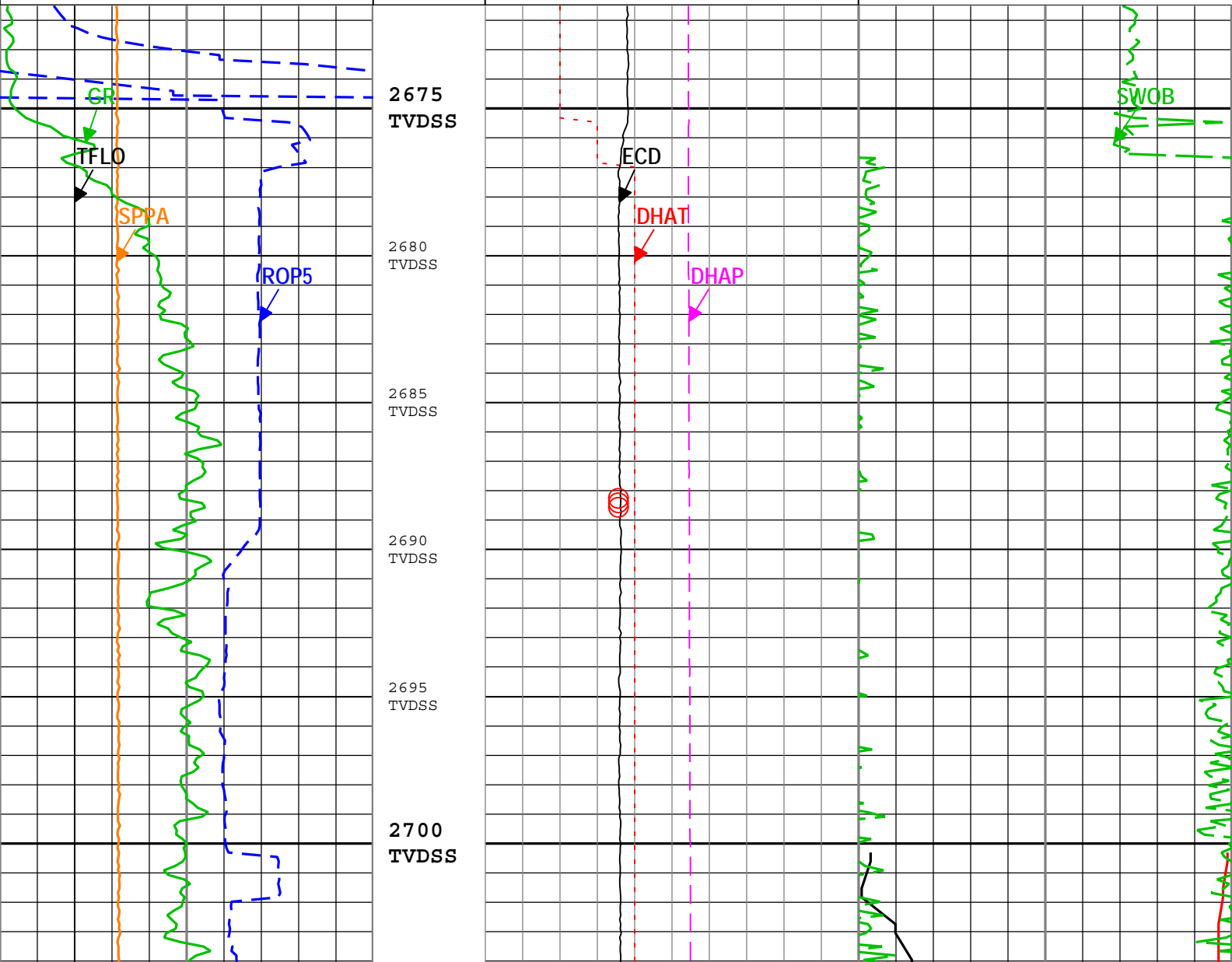
| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | Include Parallel Data |
|----------|----------------|-----------|-----------|-----------|------------------------|-------------------------|-----------------------|
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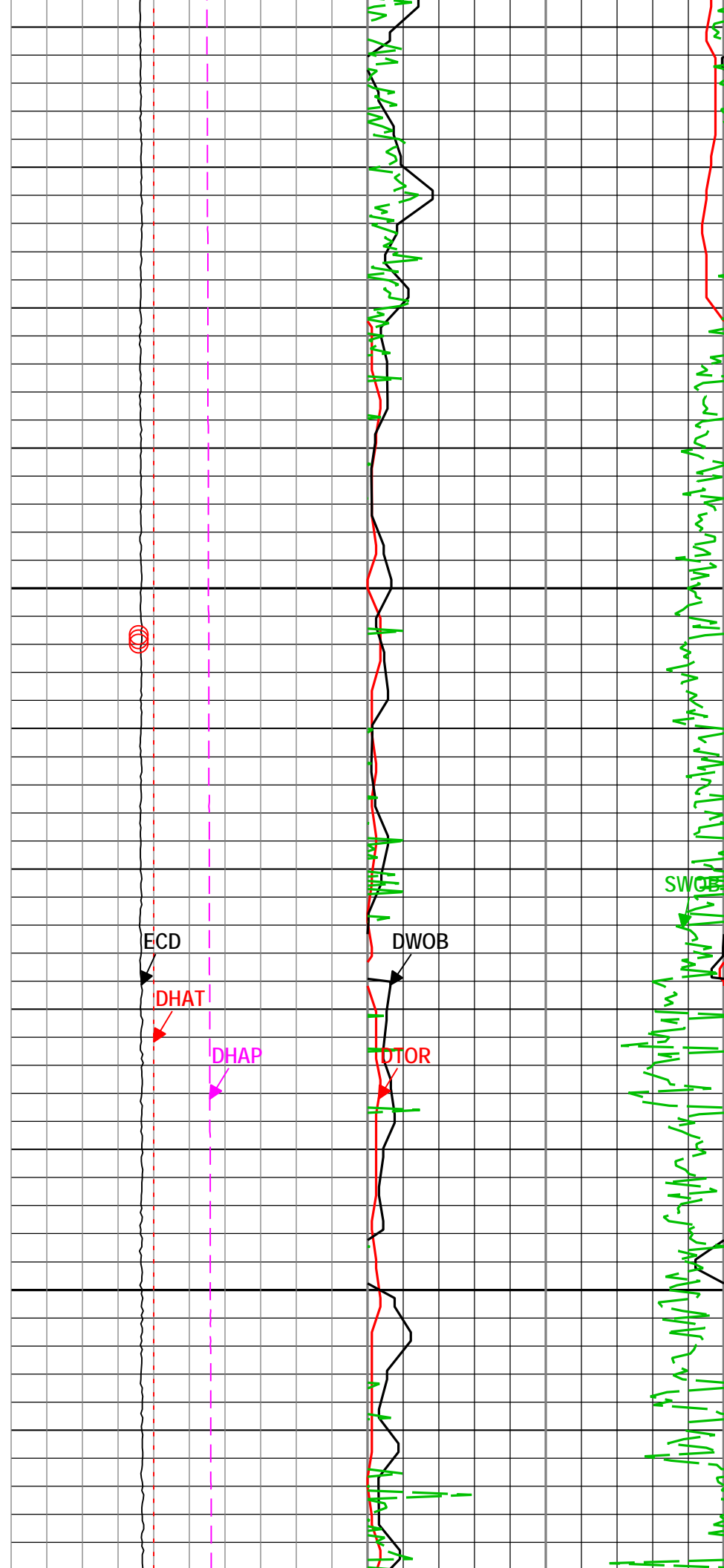
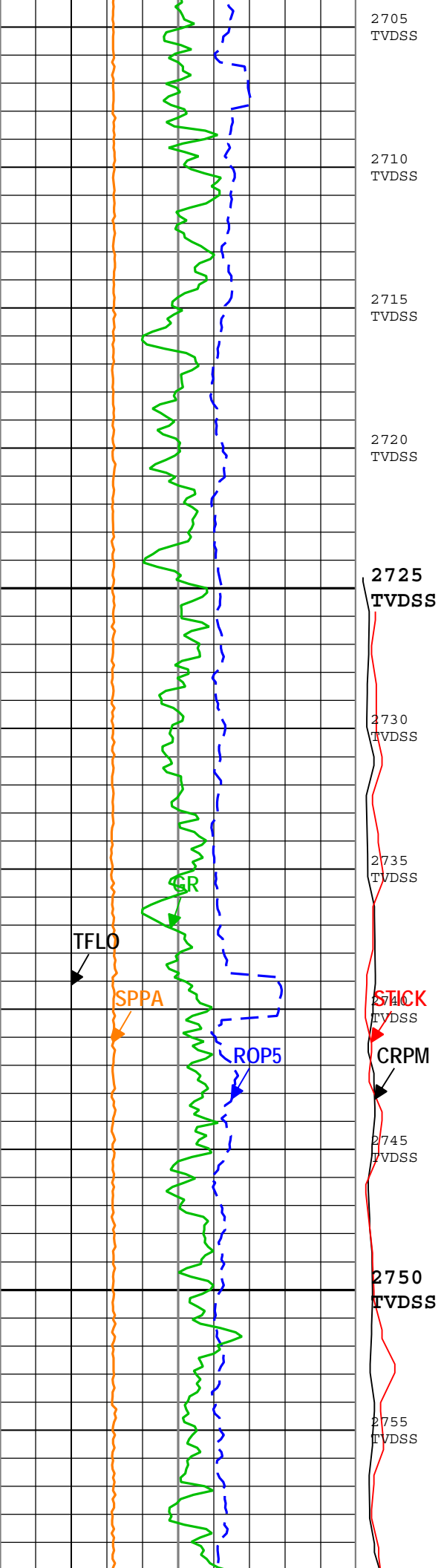
All depths are referenced to toolstring zero

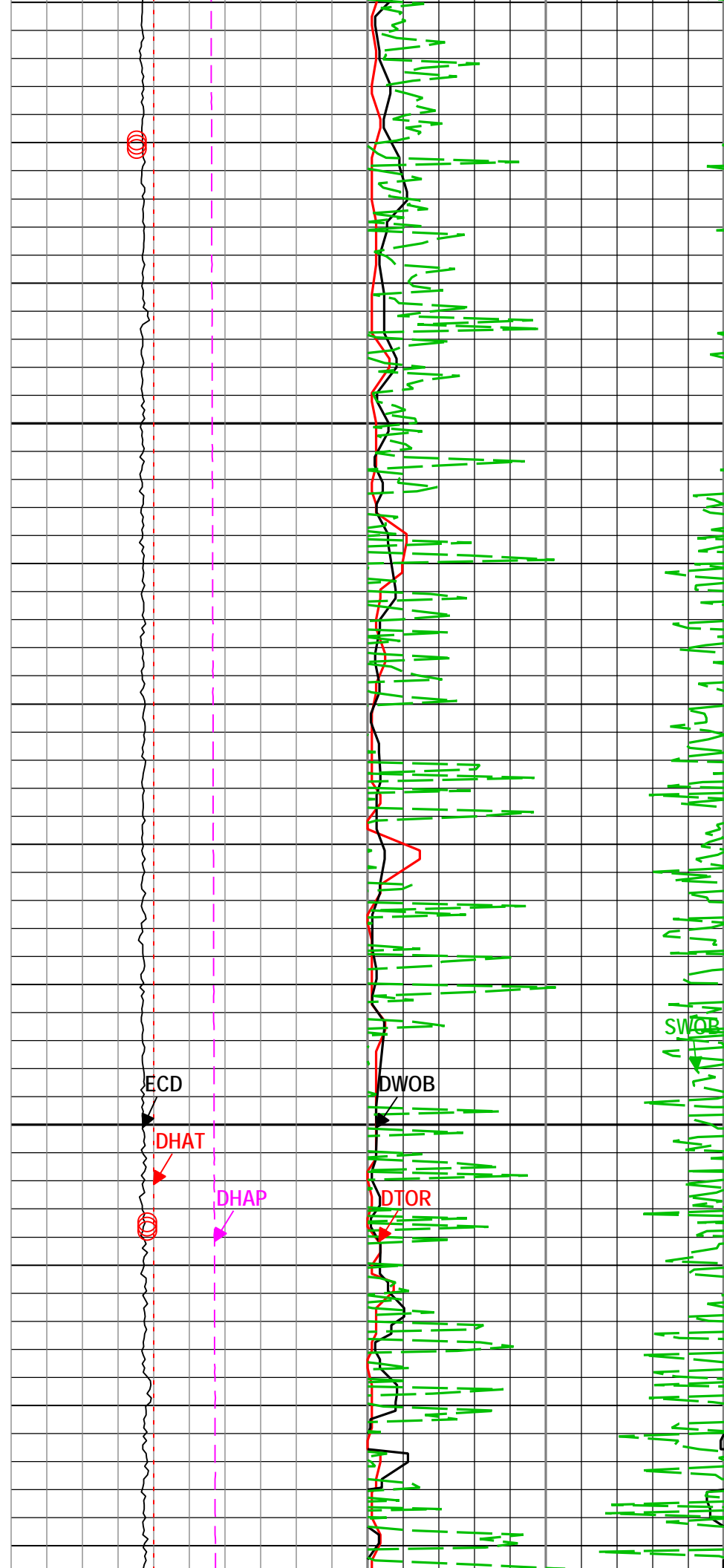
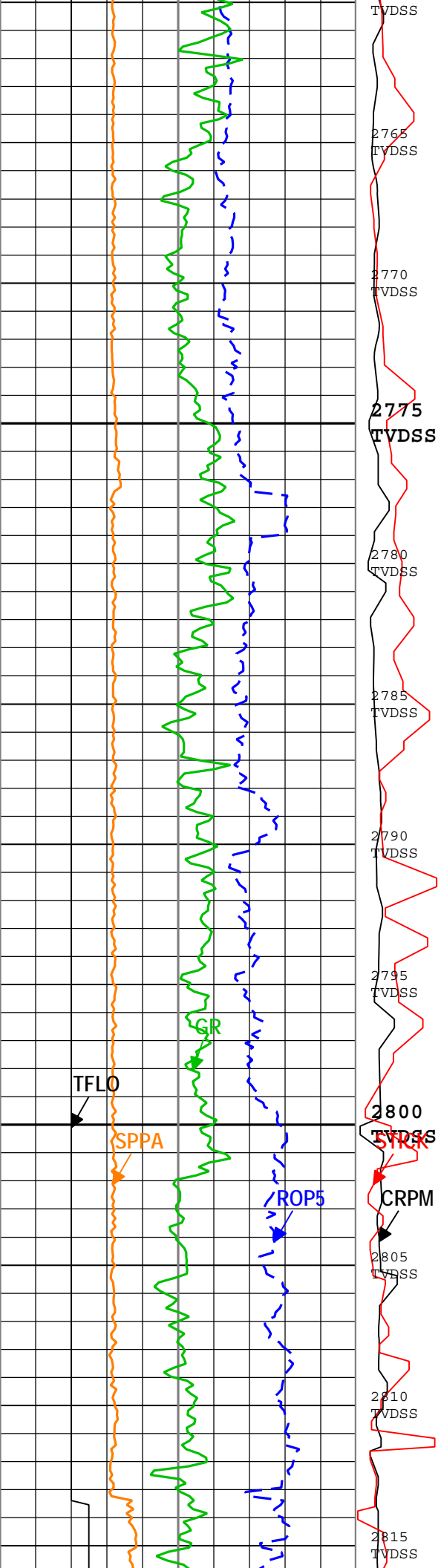
Log Run1: Drilling

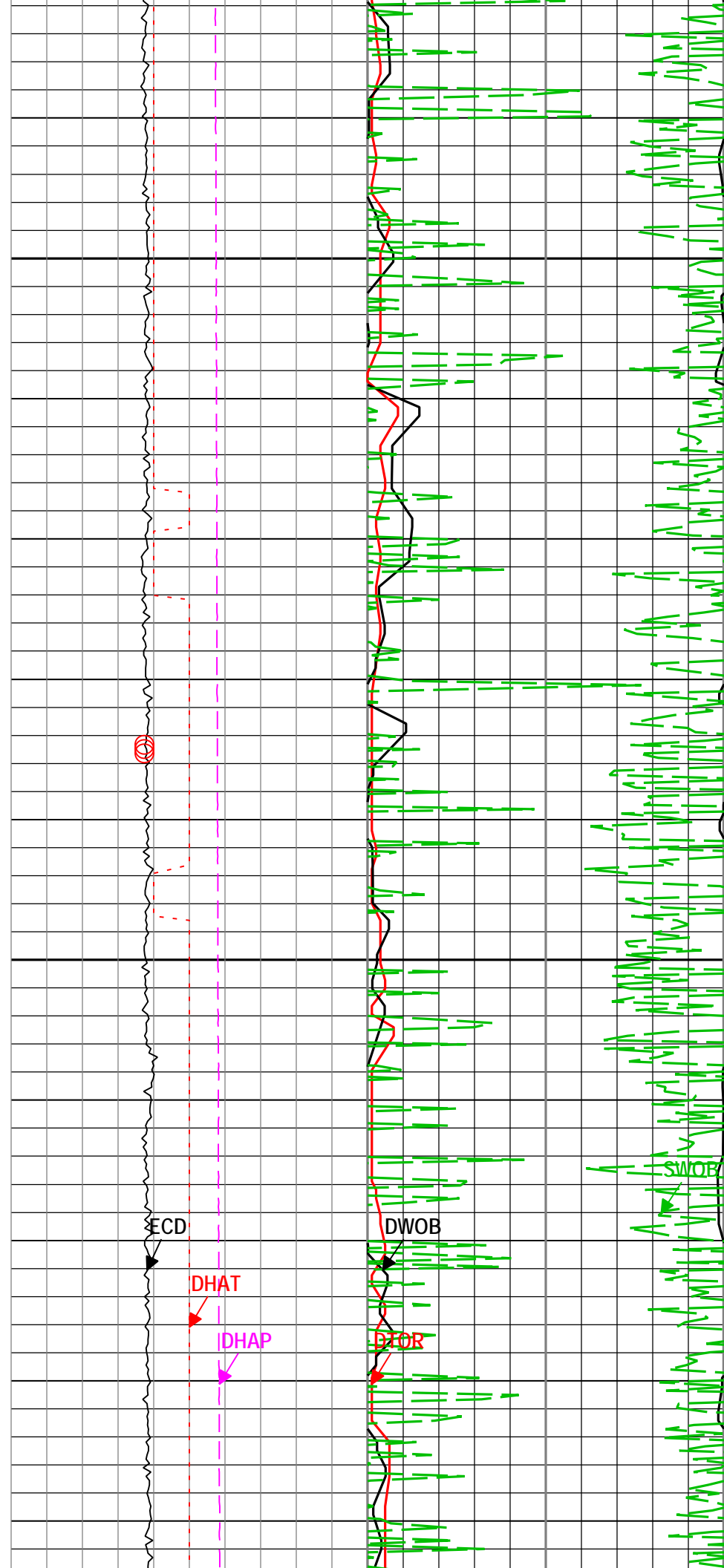
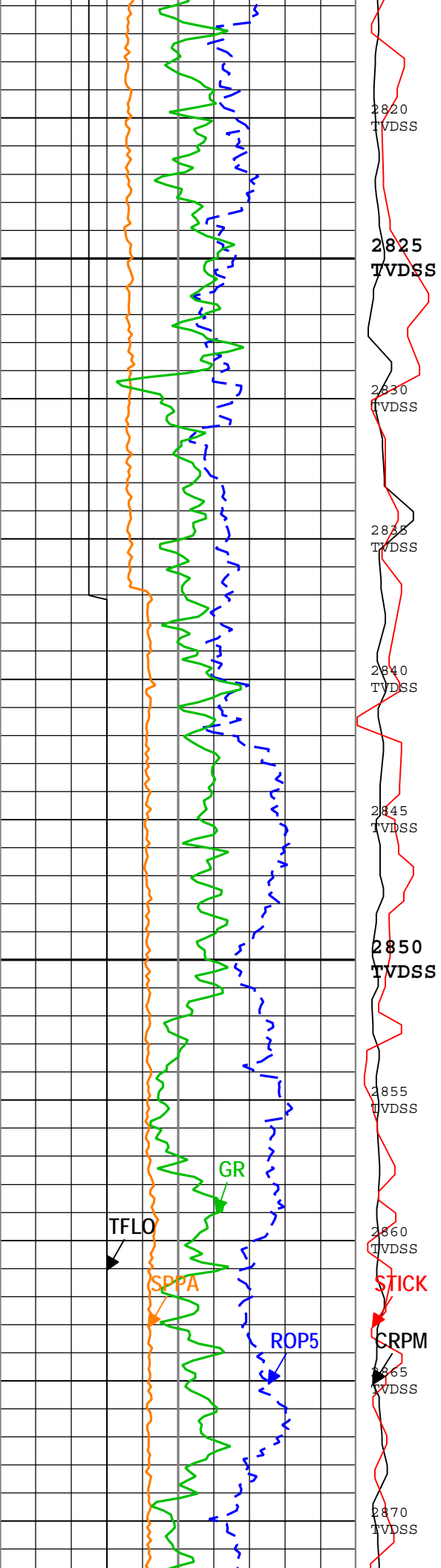
Description: Format: Log (DML Depth RM) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 17:38:30

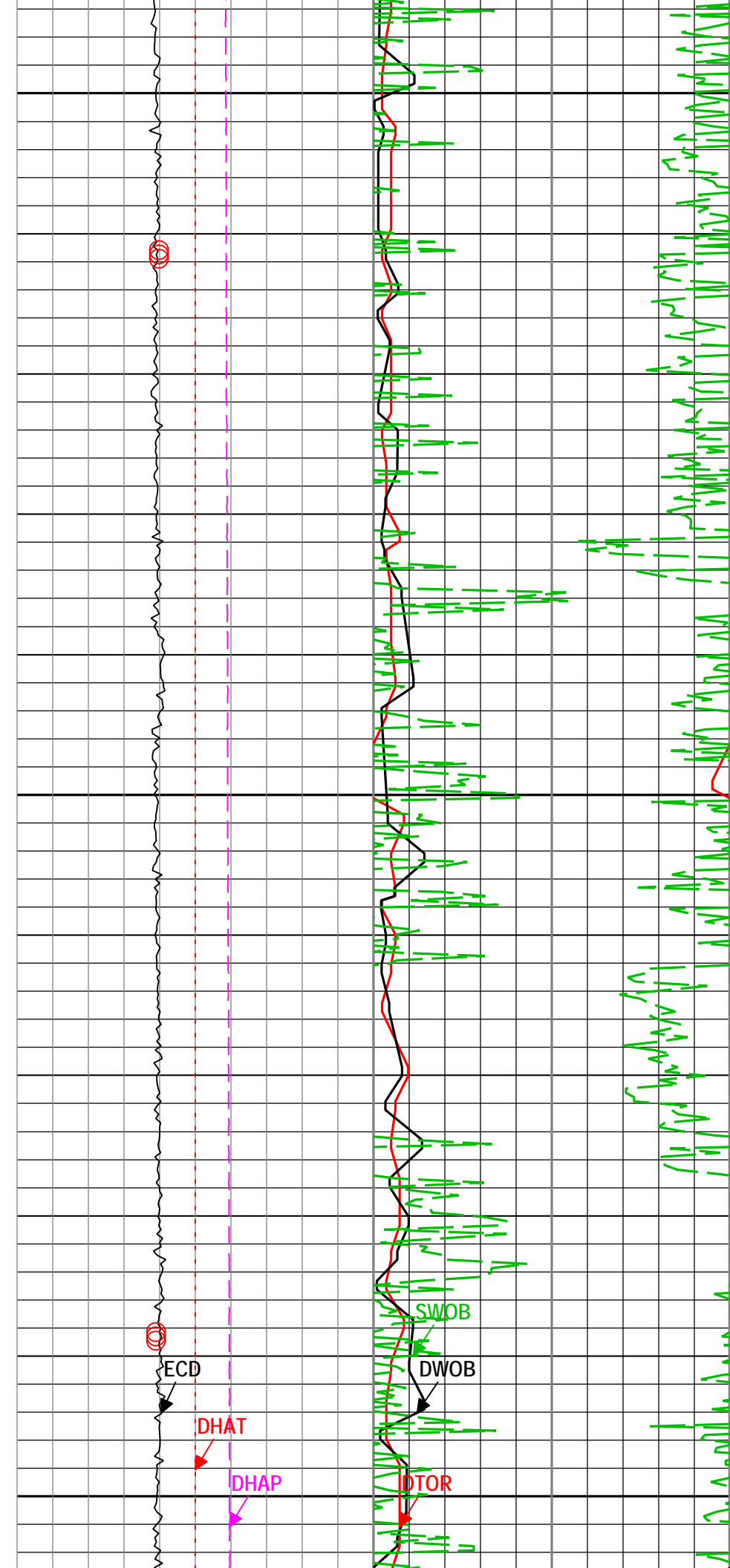
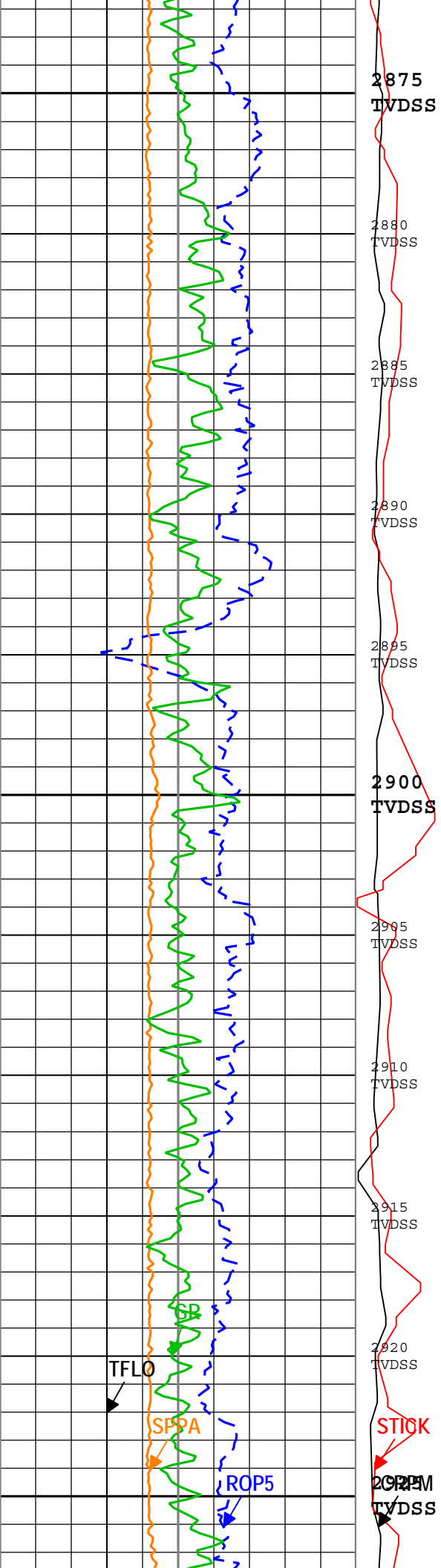
| | | | |
|--|--|--|---|
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT 100 m/h 0 | Collar Rotational Speed (CRPM) TELE825-IW OB RT 0 c/min 400 | Downhole Annulus Pressure (DHAP) ARC8 RM 0 kPa 50000 | Downhole Torque (MWD) (DTOR) TELE825-IWOB RT 0 kN.m 10 |
| Standpipe Pressure (SPPA) RT 0 kPa 35000 | Stick Slip Indicator (STICK) TELE825-IW OB RT 0 c/min 400 | Downhole Annulus Temperature (DHAT) ARC8 RM 0 degC 10 | Downhole Weight on Bit (DWOB) TELE825-IWOB RT 0 kN 200 |
| Total flow rate of all active pumps (TFLO) RT 500 gal/min 1500 | Equivalent Circulating Density (ECD) ARC8 RM 1 g/cm3 1.1 | Equivalent Static Density (ESD) ARC8 RT 1 g/cm3 1.1 | Surface Weight On Bit (SWOB) RT 0 kN 200 |
| Gamma Ray (GR) RAB8 RM 0 gAPI 150 | | | |

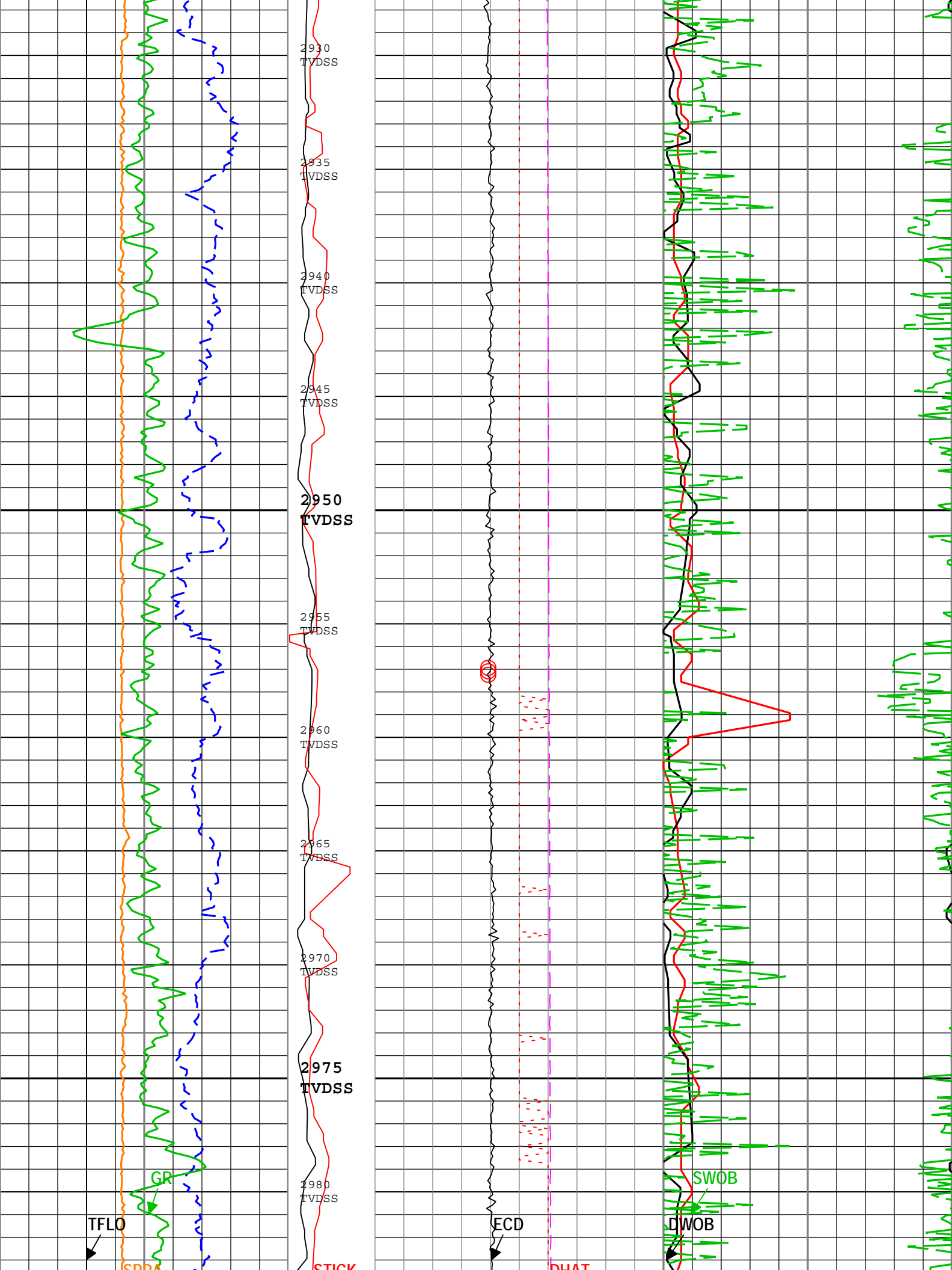


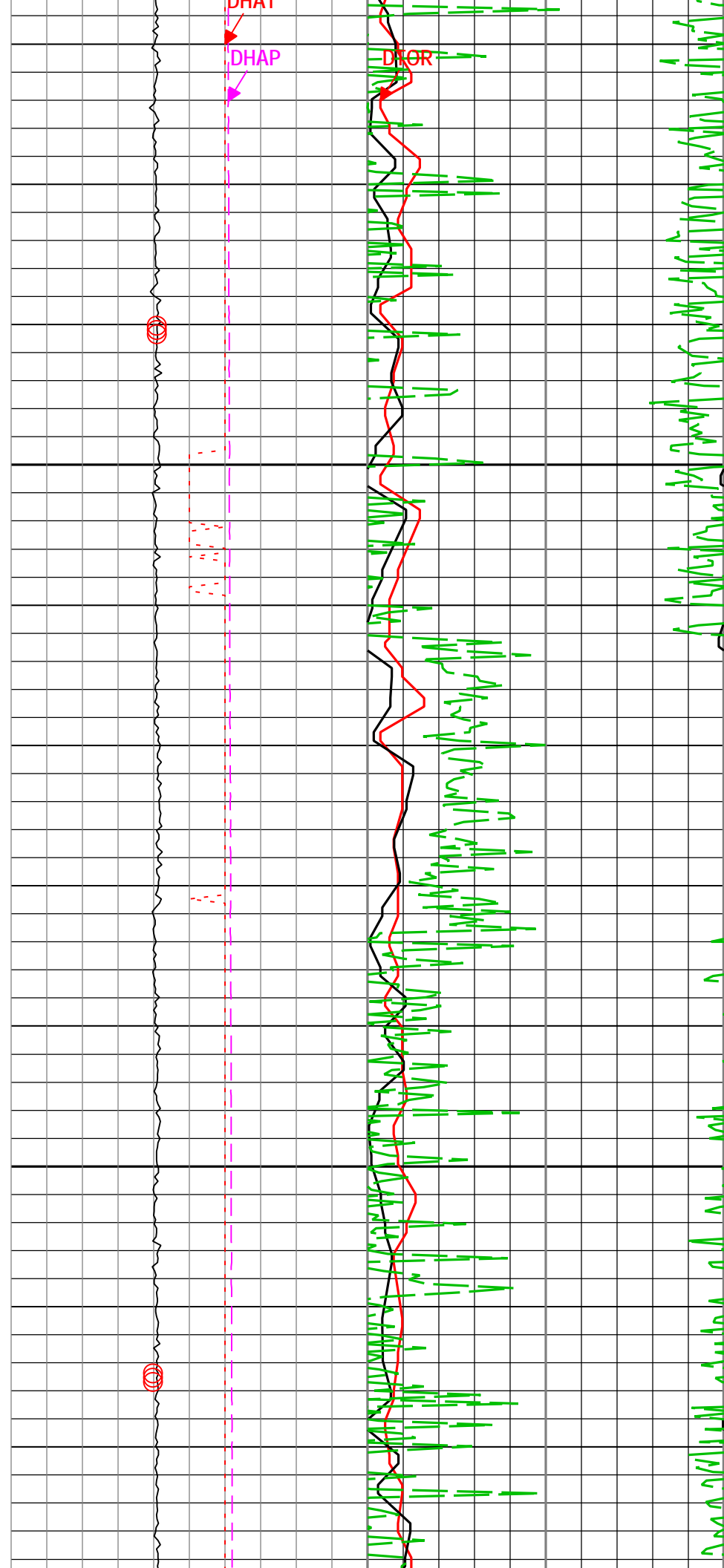
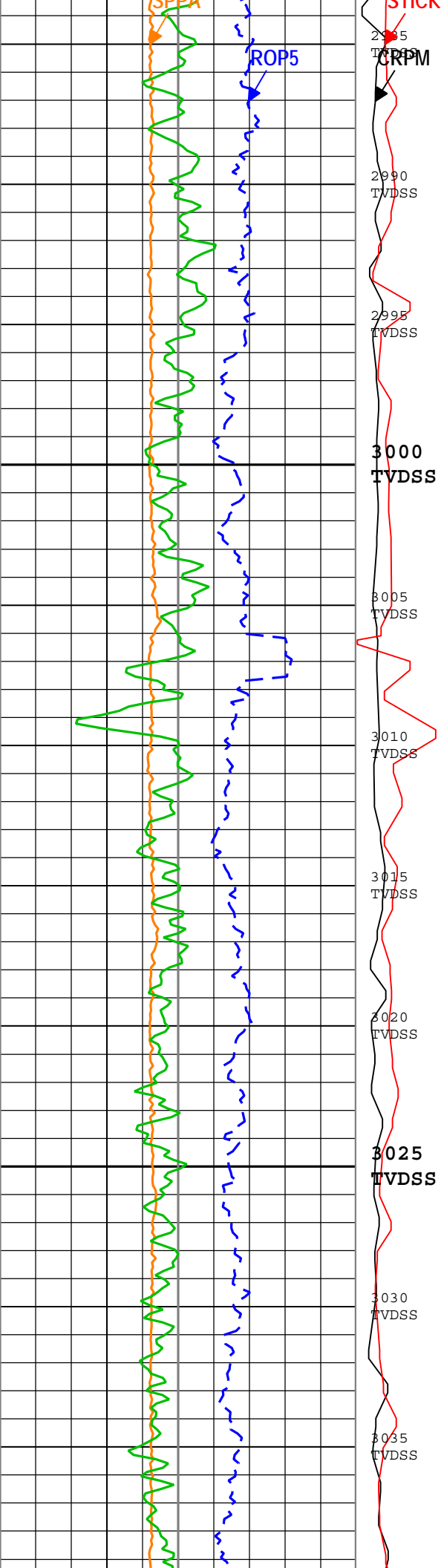












TFLO

SPPA

ROP5

3040 TVDSS

STICK

3045 TVDSS

CRPM

3050 TVDSS

3055 TVDSS

3060 TVDSS

3065 TVDSS

3070 TVDSS

3075 TVDSS

3080 TVDSS

3085 TVDSS

3090 TVDSS

3095 TVDSS

ECD

DHAT

DHAP

BWOB

BTOR

SWOB



| | | | |
|--|--|---|---|
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT 0 m/h 0 | Collar Rotational Speed (CRPM) TELE825-IW OB RT 0 c/min 400 | Downhole Annulus Pressure (DHAP) ARC8 RM 0 kPa 50000 | Downhole Torque (MWD) (DTOR) TELE825-IWOB RT 0 kN.m 10 |
| Standpipe Pressure (SPPA) RT 0 kPa 35000 | | Downhole Annulus Temperature (DHAT) ARC8 RM 0 degC 10 | Downhole Weight on Bit (DWOB) TELE825-IWOB RT 0 kN 200 |
| Total flow rate of all active pumps (TFLO) RT 500 gal/min 1500 | Stick Slip Indicator (STICK) TELE825-IW OB RT 0 c/min 400 | Equivalent Circulating Density (ECD) ARC8 RM 1 g/cm3 1.1 | Surface Weight On Bit (SWOB) RT 0 kN 200 |
| Gamma Ray (GR) RAB8 RM 0 gAPI 150 | | Equivalent Static Density (ESD) ARC8 RT 1 g/cm3 1.1 | |

Description: Format: Log (DML Depth RM) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 17:38:30

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: C0022A
Field: Nankai Trough - Kumano Basin
Rig Name: Chikyu
Prefecture: Wakayama
Country: Japan



geoVISION - APWD

Schlumberger

Gamma Ray - Resistivity - Image - APWD

12.25in Recorded Mode Log. True Vertical Depth Sub Sea 1:200