

Schlumberger

ArcVISION Resistivity

Measured Depth, Scale 1:200

Recorded Mode Well Composite

Company: JAMSTEC
 MQJ

Well: NT3-01

Field: Nankai Kumano Basin

Rig Name: Chikyu

State: Mie Prefecture

Country: Japan

Latitude: 33° 18' 0.756" N

Longitude: 136° 38' 8.928" E

Block: N/A

FL: Philippine Sea

FL1: N/A

FL2: N/A

UWID: N/A

Rig Name: Chikyu

Rig Type: Drilling

Log Measured From - Drill Floor: 28.5 m



Permanent Datum - Mean Sea Level

Acquisition Dates: 17 Nov 10 to 21 Nov 10

Print Interval: 2006.6(m) to 2945.6(m)

Index Types: Measured Depth

Index Scales: 1:200

Depth Source: Driller's Depth

Depth Sensor: DES

Conveyance: Drill Pipe

Print Type: Final

Spud Date: 16-Nov-2010

Other Services:

Directional Drilling

Disclaimer

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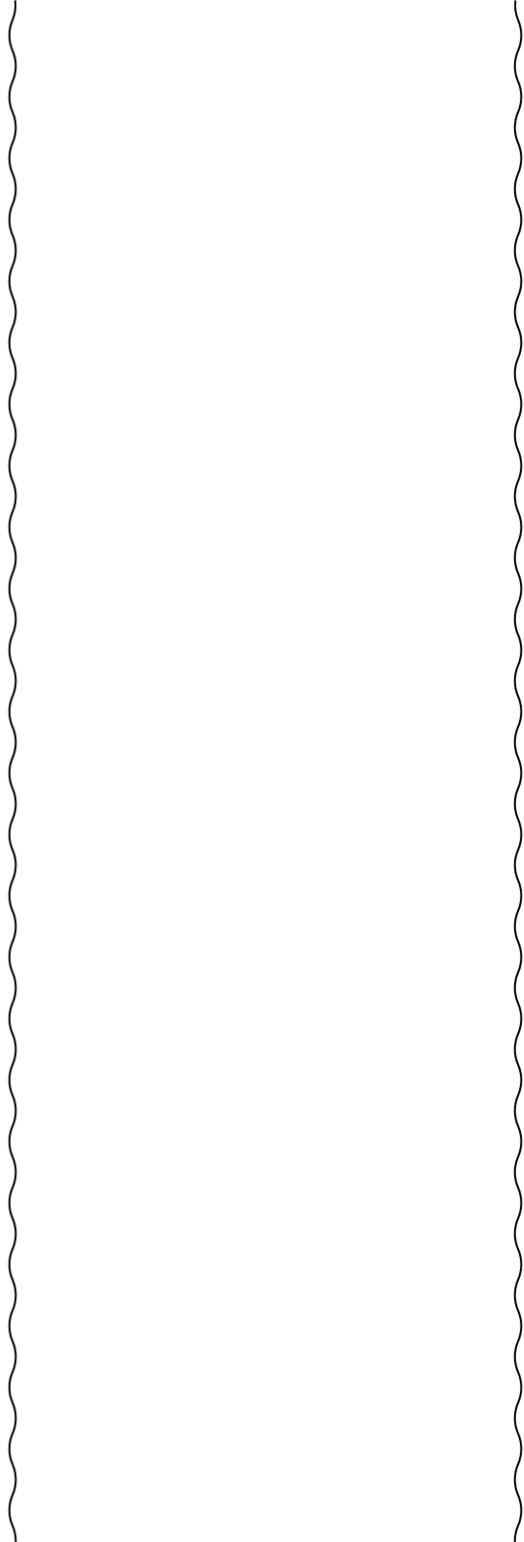
Well Sketch

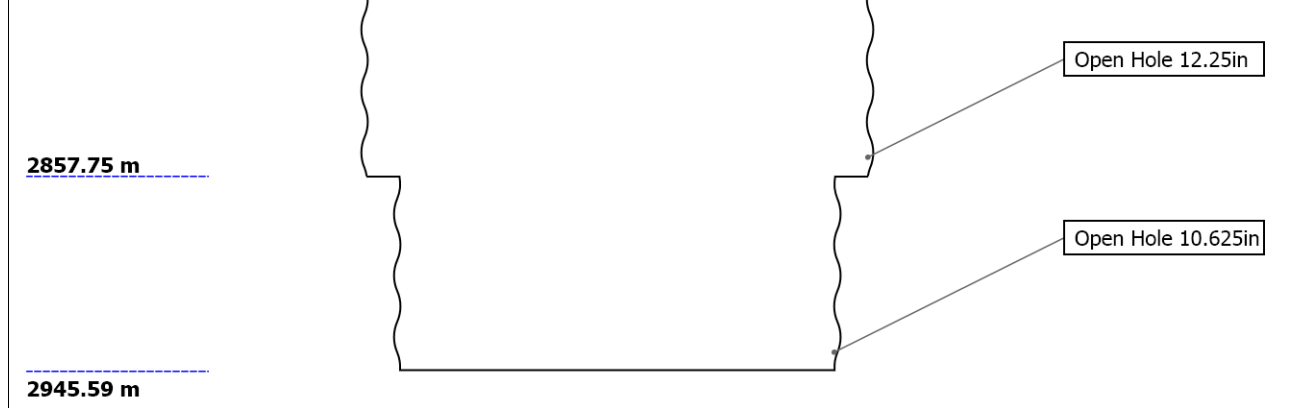
Driller Depth

1966.00 m

2006.90 m

Casing 20in
192.4kg/m





Borehole Size/Casing Record

| | | | | | |
|-----------------------|---------|---------|--|--|--|
| Bit | | | | | |
| Bit Size (in) | 12.25 | 10.625 | | | |
| Bottom Driller (m) | 2857.75 | 2945.59 | | | |
| Casing | | | | | |
| Size (in) | 20 | | | | |
| Weight (kg/m) | 192.4 | | | | |
| Inner Diameter (in) | 18.779 | | | | |
| Grade | X56 | | | | |
| Top Driller (m) | 1966 | | | | |
| Bottom Driller (m) | 2006.9 | | | | |

Operational Run Summary

| Parameter (unit) | 1 | 2 | | | |
|----------------------------------|---------------------|----------------------|--|--|--|
| Date Log Started | 16-Nov-2010 | 19-Nov-2010 | | | |
| Time Log Started | 18:18:07 | 16:32:41 | | | |
| Date Log Finished | 19-Nov-2010 | 21-Nov-2010 | | | |
| Time Log Finished | 16:04:53 | 16:52:53 | | | |
| Bit Size (in) | 12.250 | 10.625 | | | |
| Bit Start Depth (m) | 2006.60 | 2857.78 | | | |
| Bit Stop Depth (m) | 2857.75 | 2945.59 | | | |
| Top Log Interval (m) | 2003.30 | 2843.17 | | | |
| Bottom Log Interval (m) | 2843.17 | 2941.78 | | | |
| Max Hole Deviation (deg) | 0.77 | 0.89 | | | |
| Azimuth of Max Deviation (deg) | 38.08 | 32.22 | | | |
| Logging Unit Number | OLU-KC-0504 | OLU-KC-0504 | | | |
| Logging Unit Location | Zone 3 | Zone 3 | | | |
| Recorded By | Yu Ito/Kikuko Iwama | Yu Ito/ Kikuko Iwama | | | |
| Witnessed By | Yoshio Ikeda | Yoshio Ikeda | | | |
| Service Order Number | 10JAP0004 | 10JAP0004 | | | |

Remarks and Equipment Summary

| | |
|------------|------------|
| 1: Remarks | 2: Remarks |
|------------|------------|

| | |
|---------------|---------------|
| 1: Toolstring | 2: Toolstring |
|---------------|---------------|

Cum. Length 36.7
Stab: 8 :EW21985

Cum. Length 35.08
NMDC: 8 :SBD7069

Cum. Length 25.74
TELE825:E3165
MSSU825
Upper Extender
MDC825:E3165
MMA:1336
MDI:2259
PMGR
PMEA
MTA
MTK825
MSSD825
Lower Extender,

Cum. Length 17.76
ARCB:1955
ARDC:1955
Upper Extender
CDJA
AREA:1925F
APWD
ARSS
Lower Extender

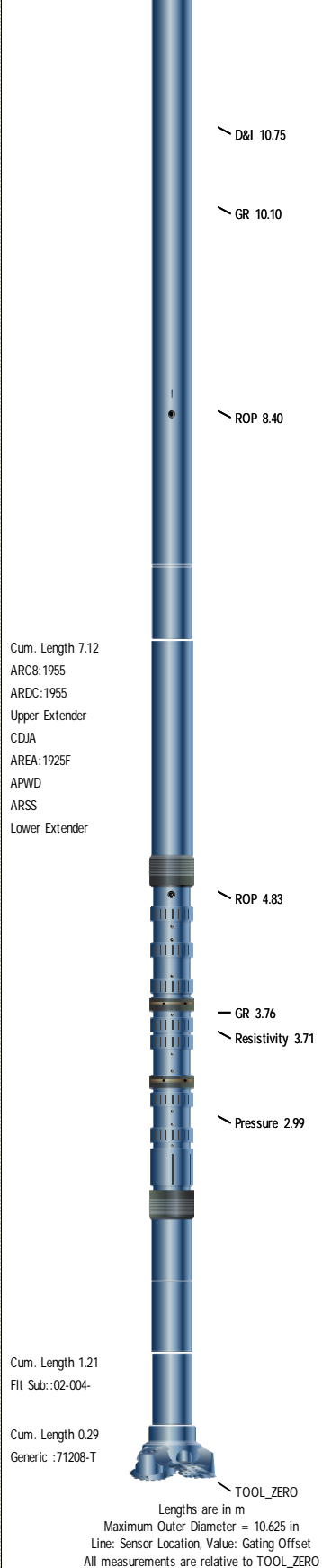
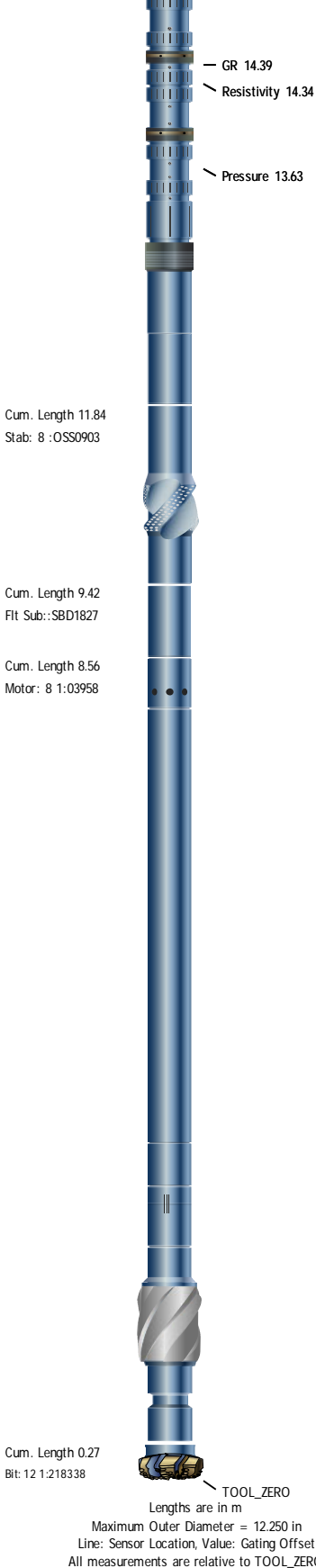


Cum. Length 25.7
NMDC: 8 :SBD7069

Cum. Length 16.36
Stab: 8 :2821953

Cum. Length 15.1
TELE825:E3165
MSSU825
Upper Extender
MDC825:E3165
MMA:1336
MDI:2259
PMGR
PMEA
MTA
MTK825
MSSD825
Lower Extender,





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 : | 1.01 deg | | |

Rig Location

| | | | |
|------------|------------------|-------------|-------------------|
| Latitude : | 33° 18' 0.756" N | Longitude : | 136° 38' 8.928" E |
|------------|------------------|-------------|-------------------|

Tie In Point

| | | | | | |
|----------------------|--------|---------------------|----------|---------------------------|----------|
| Measured Depth: | 0.00 m | Inclination: | 0.00 deg | Azimuth: | 0.00 deg |
| True Veritcal 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 - 1 | | | | | |
| Geomagnetic Model : | BGGM 2009 | Geomagnetic Date : | 13-Nov-2010 | | |
| Computed Location B : | 45915.09 nT +/- 300.00nT | Used Location B : | 45915.09 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 : | 46.76 deg +/- 0.45deg | Used Magnetic Dip : | 46.76 deg +/- 0.45deg | | |
| Computed Magnetic Dec : | -6.58 deg | Used Magnetic Dec : | -6.58 deg | | |
| Computed Total Correction : | -7.59 deg | Used Total Correction : | -7.59 deg | | |

| | | | | | |
|---|--------------------------|-------------------------|--------------------------|--|--|
| D&I Inits Computed and Values Used - 2 | | | | | |
| Geomagnetic Model : | BGGM 2009 | Geomagnetic Date : | 20-Nov-2010 | | |
| Computed Location B : | 45915.72 nT +/- 300.00nT | Used Location B : | 45915.72 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 : | 46.76 deg +/- 0.45deg | Used Magnetic Dip : | 46.76 deg +/- 0.45deg | | |
| Computed Magnetic Dec : | -6.58 deg | Used Magnetic Dec : | -6.58 deg | | |
| Computed Total Correction : | -7.59 deg | Used Total Correction : | -7.59 deg | | |

| | | | | | |
|-------------------------------|-----------------------------|-------------------------------|--|--|--|
| Survey Quality Index | | | | | |
| 0 : Long, passed all criteria | 3 : Long, failed G criteria | 4 : Long, failed all criteria | | | |
| 9 : Manual | | | | | |

| | | | | | |
|--------------------------------|--|--|--|--|--|
| Survey Correction Index | | | | | |
| 0 : No correction | | | | | |

| Seq | MD (m) | Incl (deg) | Azim (deg) | Course (m) | TVD (m) | V Sec (m) | N/ -S (m) | E/ -W (m) | Closure (m) | at Azi (deg) | DLS deg/30m | Tool Type | QI | CI |
|-----|---------|------------|------------|------------|---------|-----------|-----------|-----------|-------------|--------------|-------------|-----------|----|----|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 90.00 | 0.00 | TIP | | |
| 2 | 1966.00 | 0.00 | 0.00 | 1966.00 | 1966.00 | 0.00 | 0.00 | 0.00 | 0.00 | 90.00 | 0.00 | Other | 9 | |
| 3 | 2012.75 | 0.33 | 215.43 | 46.75 | 2012.75 | -0.11 | -0.11 | -0.08 | 0.13 | 215.43 | 0.21 | TeleScope | 4 | 0 |
| 4 | 2052.34 | 0.09 | 294.07 | 39.58 | 2052.33 | -0.19 | -0.19 | -0.17 | 0.25 | 222.39 | 0.24 | TeleScope | 0 | 0 |
| 5 | 2091.49 | 0.27 | 262.16 | 39.15 | 2091.49 | -0.19 | -0.19 | -0.29 | 0.35 | 237.25 | 0.15 | TeleScope | 0 | 0 |
| 6 | 2128.43 | 0.15 | 212.97 | 36.95 | 2128.43 | -0.24 | -0.24 | -0.41 | 0.47 | 239.24 | 0.17 | TeleScope | 3 | 0 |
| 7 | 2166.16 | 0.14 | 272.11 | 37.73 | 2166.16 | -0.28 | -0.28 | -0.48 | 0.56 | 239.55 | 0.12 | TeleScope | 0 | 0 |
| 8 | 2204.01 | 0.34 | 262.46 | 37.85 | 2204.01 | -0.30 | -0.30 | -0.64 | 0.70 | 245.23 | 0.16 | TeleScope | 0 | 0 |
| 9 | 2243.14 | 0.26 | 327.53 | 39.13 | 2243.13 | -0.24 | -0.24 | -0.80 | 0.84 | 253.57 | 0.25 | TeleScope | 0 | 0 |
| 10 | 2281.39 | 0.28 | 314.51 | 38.25 | 2281.38 | -0.10 | -0.10 | -0.92 | 0.92 | 263.86 | 0.05 | TeleScope | 0 | 0 |
| 11 | 2320.23 | 0.08 | 0.06 | 38.85 | 2320.23 | 0.00 | 0.00 | -0.99 | 0.99 | 269.78 | 0.18 | TeleScope | 0 | 0 |
| 12 | 2358.29 | 0.27 | 359.35 | 38.06 | 2358.29 | 0.11 | 0.11 | -0.99 | 0.99 | 276.54 | 0.15 | TeleScope | 0 | 0 |
| 13 | 2395.06 | 0.37 | 334.98 | 36.77 | 2395.06 | 0.31 | 0.31 | -1.04 | 1.08 | 286.56 | 0.14 | TeleScope | 0 | 0 |
| 14 | 2436.94 | 0.22 | 8.62 | 41.89 | 2436.94 | 0.51 | 0.51 | -1.08 | 1.20 | 295.25 | 0.16 | TeleScope | 0 | 0 |
| 15 | 2473.67 | 0.31 | 337.62 | 36.73 | 2473.67 | 0.67 | 0.67 | -1.11 | 1.30 | 301.16 | 0.14 | TeleScope | 0 | 0 |
| 16 | 2509.82 | 0.42 | 339.03 | 36.14 | 2509.81 | 0.89 | 0.89 | -1.20 | 1.49 | 306.51 | 0.09 | TeleScope | 0 | 0 |
| 17 | 2549.35 | 0.44 | 18.06 | 39.53 | 2549.34 | 1.16 | 1.16 | -1.20 | 1.67 | 314.10 | 0.22 | TeleScope | 0 | 0 |
| 18 | 2588.00 | 0.34 | 340.82 | 38.66 | 2588.00 | 1.41 | 1.41 | -1.19 | 1.85 | 319.81 | 0.21 | TeleScope | 0 | 0 |
| 19 | 2626.70 | 0.49 | 9.69 | 38.70 | 2626.70 | 1.68 | 1.68 | -1.20 | 2.07 | 324.43 | 0.20 | TeleScope | 0 | 0 |
| 20 | 2663.60 | 0.54 | 7.50 | 36.90 | 2663.59 | 2.01 | 2.01 | -1.15 | 2.31 | 330.14 | 0.05 | TeleScope | 3 | 0 |
| 21 | 2701.64 | 0.67 | 36.16 | 38.04 | 2701.63 | 2.36 | 2.36 | -1.00 | 2.57 | 337.13 | 0.26 | TeleScope | 0 | 0 |
| 22 | 2739.45 | 0.77 | 38.08 | 37.80 | 2739.43 | 2.74 | 2.74 | -0.71 | 2.83 | 345.50 | 0.08 | TeleScope | 0 | 0 |
| 23 | 2776.32 | 0.55 | 35.64 | 36.87 | 2776.30 | 3.08 | 3.08 | -0.45 | 3.12 | 351.66 | 0.18 | TeleScope | 3 | 0 |
| 24 | 2815.07 | 0.61 | 47.29 | 38.75 | 2815.05 | 3.38 | 3.38 | -0.19 | 3.38 | 356.73 | 0.10 | TeleScope | 3 | 0 |
| 25 | 2835.39 | 0.73 | 29.17 | 20.32 | 2835.37 | 3.56 | 3.56 | -0.05 | 3.56 | 359.18 | 0.36 | TeleScope | 3 | 0 |
| 26 | 2858.37 | 0.89 | 32.22 | 22.99 | 2858.35 | 3.84 | 3.84 | 0.12 | 3.84 | 1.73 | 0.22 | TeleScope | 0 | 0 |

| | | | | | | | | | | | | | | |
|----|---------|------|--------|-------|---------|------|------|------|------|------|------|-----------|---|---|
| 27 | 2896.18 | 0.77 | 14.92 | 37.81 | 2896.15 | 4.33 | 4.33 | 0.34 | 4.35 | 4.46 | 0.22 | TeleScope | 3 | 0 |
| 28 | 2932.88 | 0.38 | 133.08 | 36.70 | 2932.85 | 4.49 | 4.49 | 0.49 | 4.52 | 6.22 | 0.82 | TeleScope | 3 | 0 |

Well Composite

NT3-01 Well Composite 1:200MD

Integration Summary

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

Software Version

| Acquisition System | Version |
|--------------------|------------|
| MaxWell | 2.0.6803.0 |

| Computation | Description | Version |
|-------------------------|---|------------|
| ARC8GammaRayComputation | ARC8 Gamma Ray Computation Package for both Real-time and Recorded Mode | 2.0.6803.0 |
| ARCResistivity | ARC Resistivity Computation Package for ARC Tool Family | 2.0.6803.0 |

| Tool Elements | Description | Software Version | Firmware Version |
|------------------|------------------------------------|------------------|------------------|
| ARDC | ARC 8.25 Inch Tool Drilling Collar | 2.0.6803.0 | V9.4B |
| DRILLING_SURFACE | DRILLING_SURFACE | 2.0.6803.0 | |

Composite Summary

| Run Name | Pass Objective | Direction | Top | Bottom | Acquisition Start Date | Acquisition Start Time |
|----------|----------------|-----------|-----------|-----------|------------------------|------------------------|
| 1 | Drilling | Down | 2006.60 m | 2857.75 m | 17-Nov-2010 | 09:17:52 |
| 2 | Drilling | Down | 2857.78 m | 2945.59 m | 19-Nov-2010 | 16:32:41 |
| 2 | Ream Up 1 | Up | 2831.59 m | 2861.79 m | 21-Nov-2010 | 04:46:24 |

All depths are referenced to toolstring zero

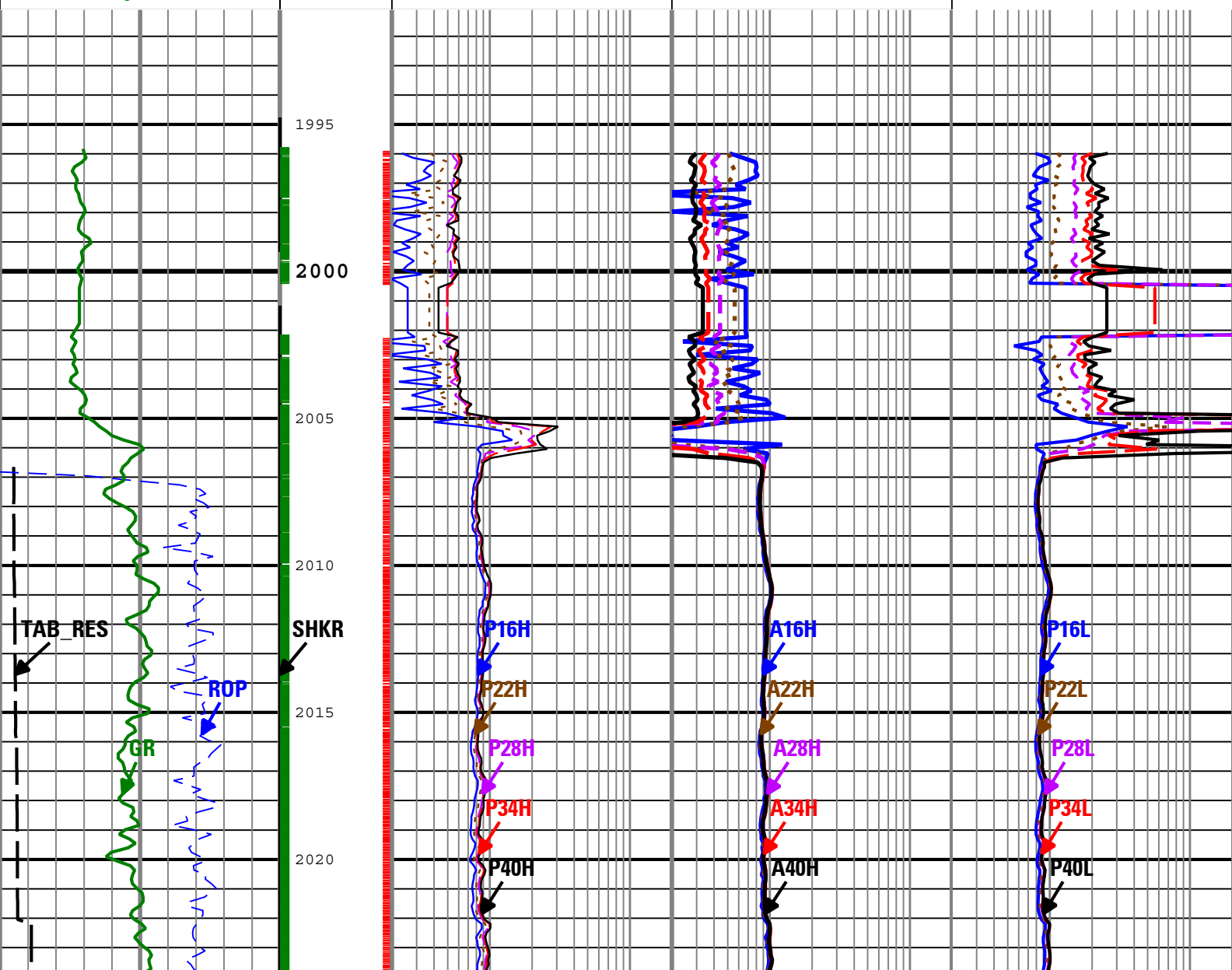
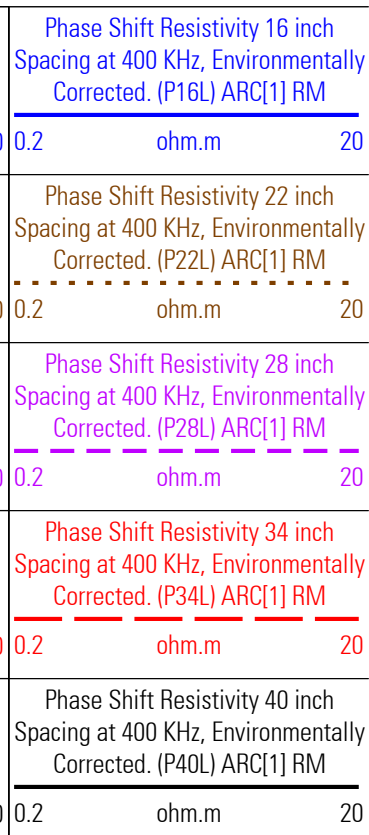
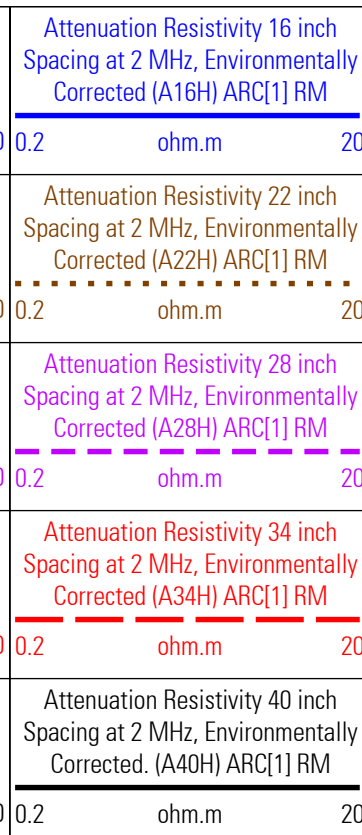
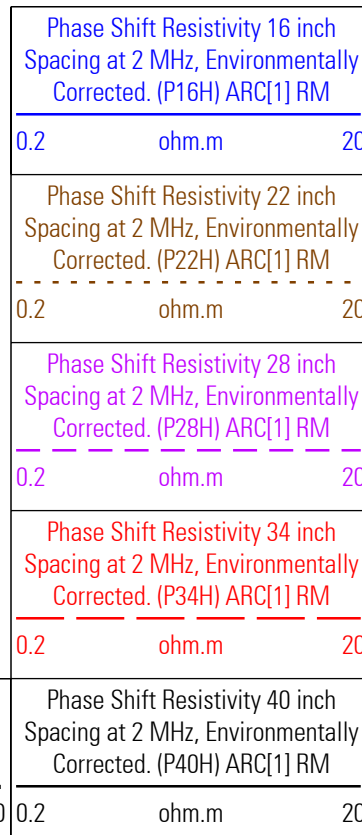
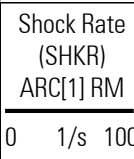
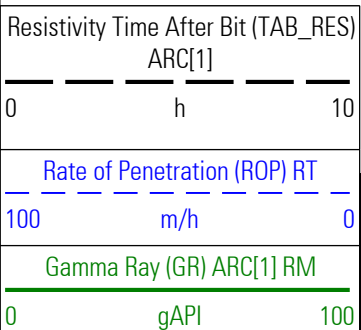
Log

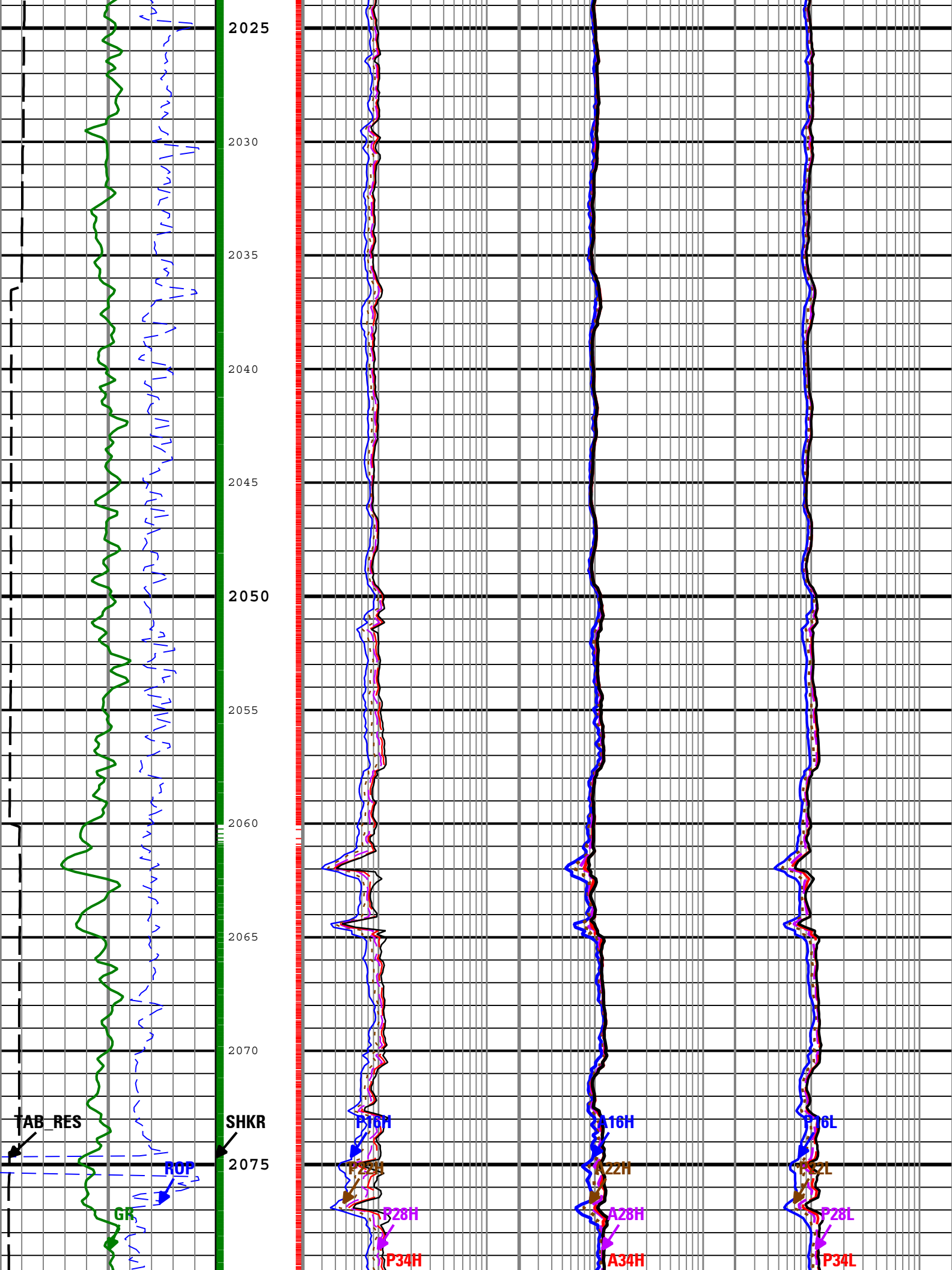
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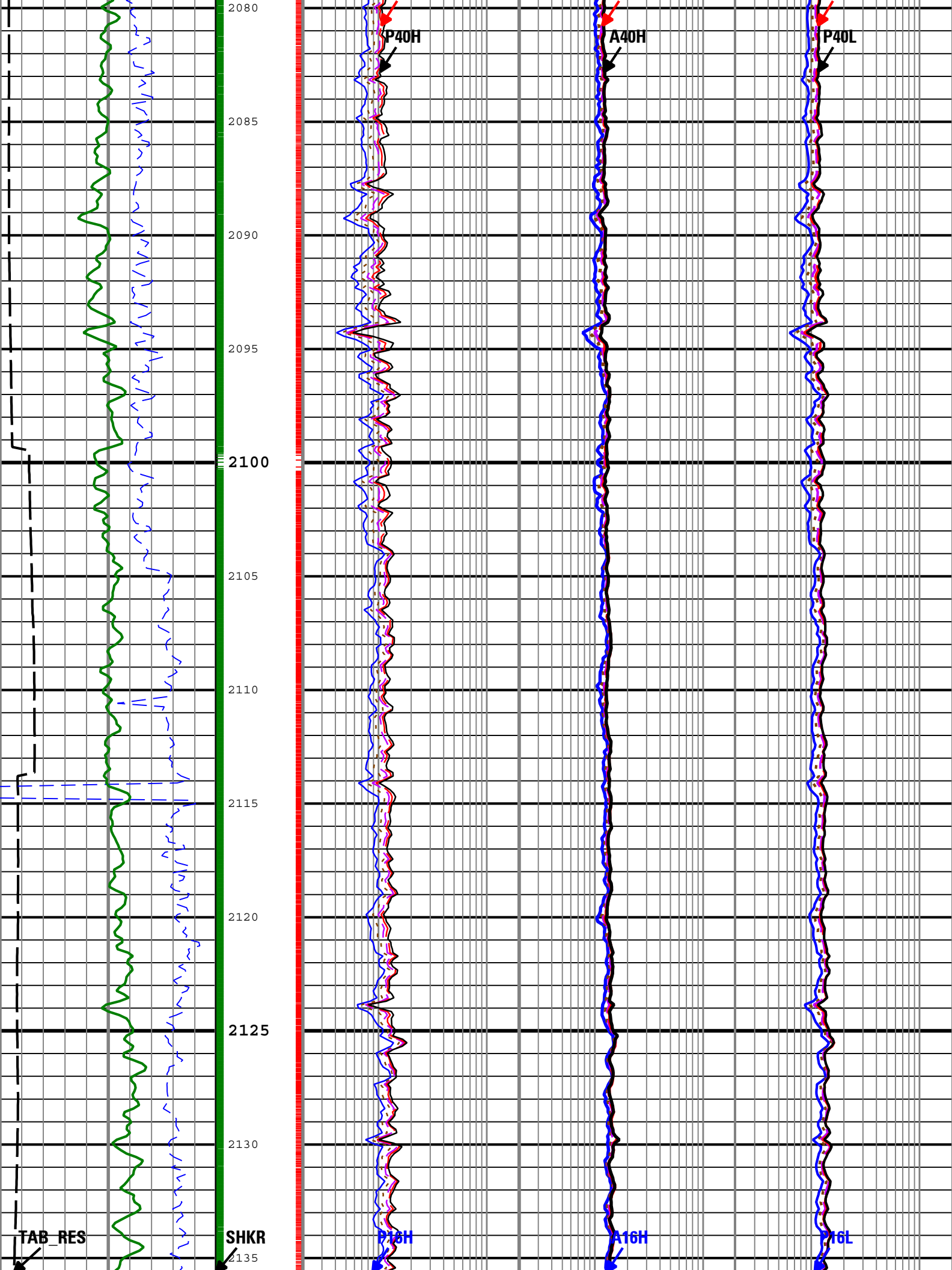
Description: ARC Dual Frequency 3-Log Resistivity Format: Log (ARC Dual Resistivity 3-Log) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth
 Creation Date: 08-Dec-2010 09:59:52

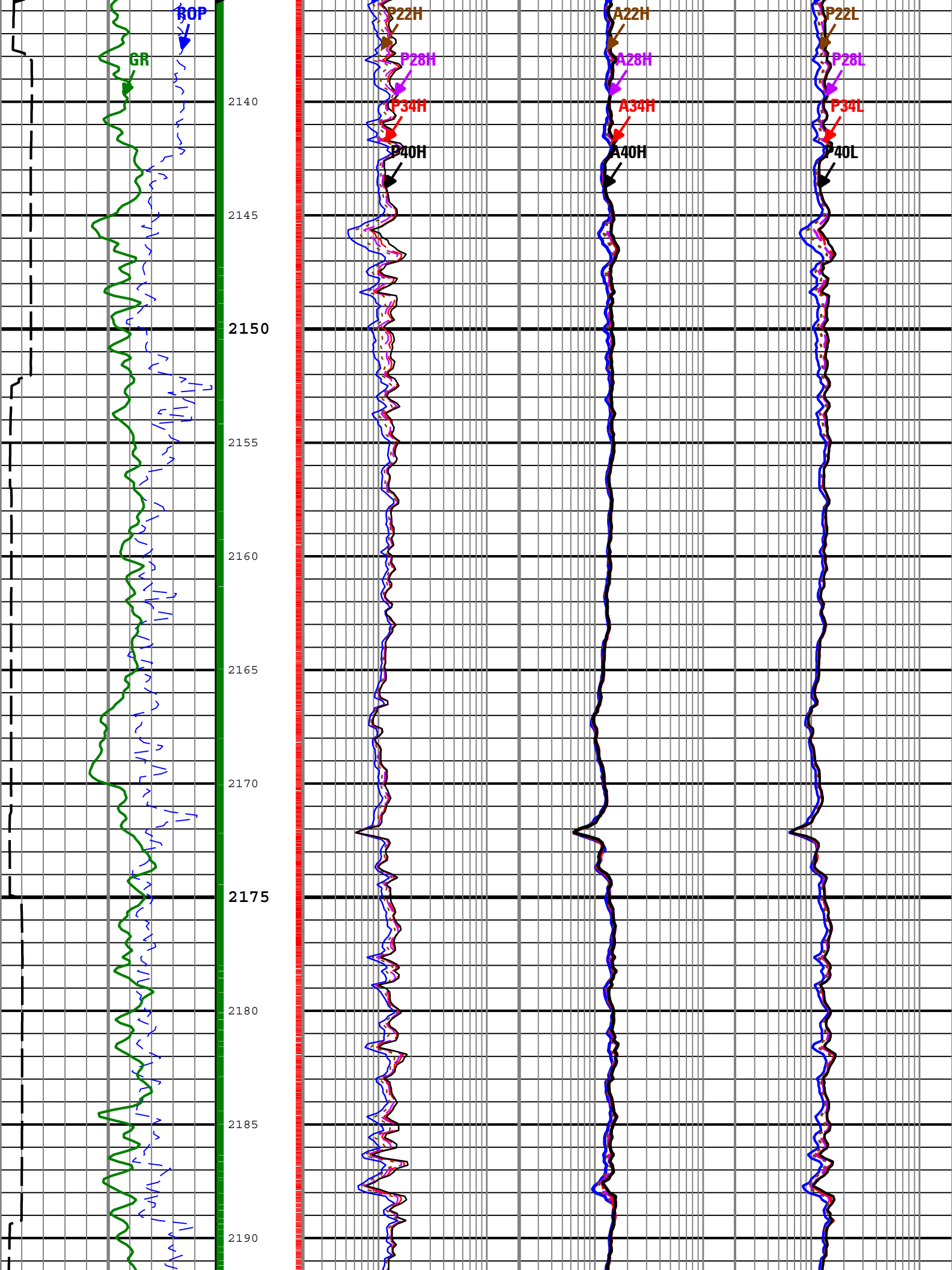
| | | |
|-----------|-----------------------|------------|
| A16H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| A22H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| A28H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| A34H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| A40H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| GR | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P16H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P16L | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P22H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P22L | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P28H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P28L | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P34H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P34L | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P40H | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| P40L | ARC[1]:ARC[1]:ARDC[1] | 6in - RM |
| ROP | DRILLING_SURFACE | 6in - RT |
| SHKR | ARC[1]:ARC[1] | 6in - RM |
| TAB_RES | ARC[1]:ARC[1]:ARDC[1] | 6in |
| TICKS_GR | ARC[1]:ARC[1] | 1.2in - RM |
| TICKS_RES | ARC[1]:ARC[1] | 1.2in - RM |

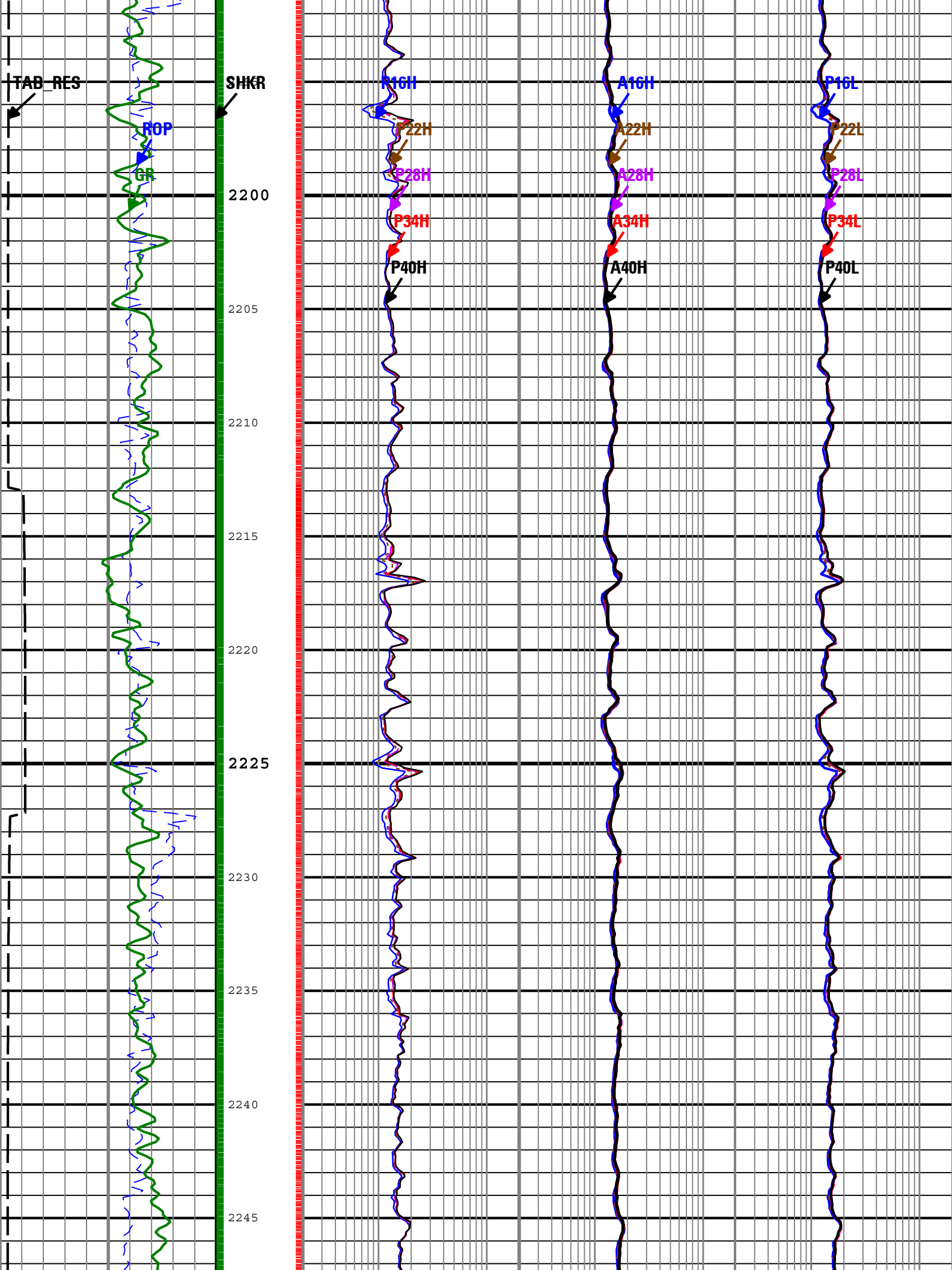
└─ TICKS_GR - Gamma Ray Tick Marks ARC[1] RM

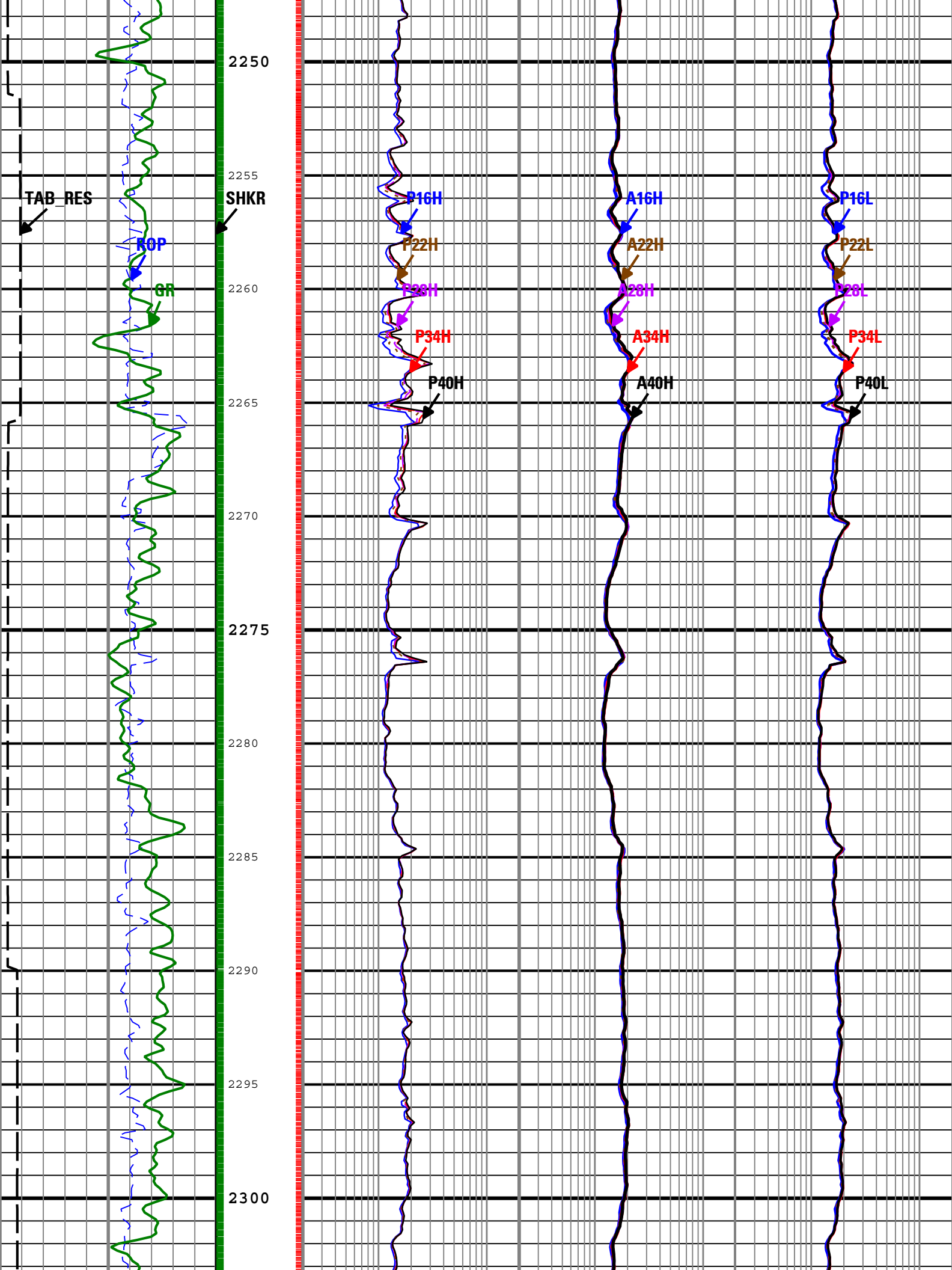


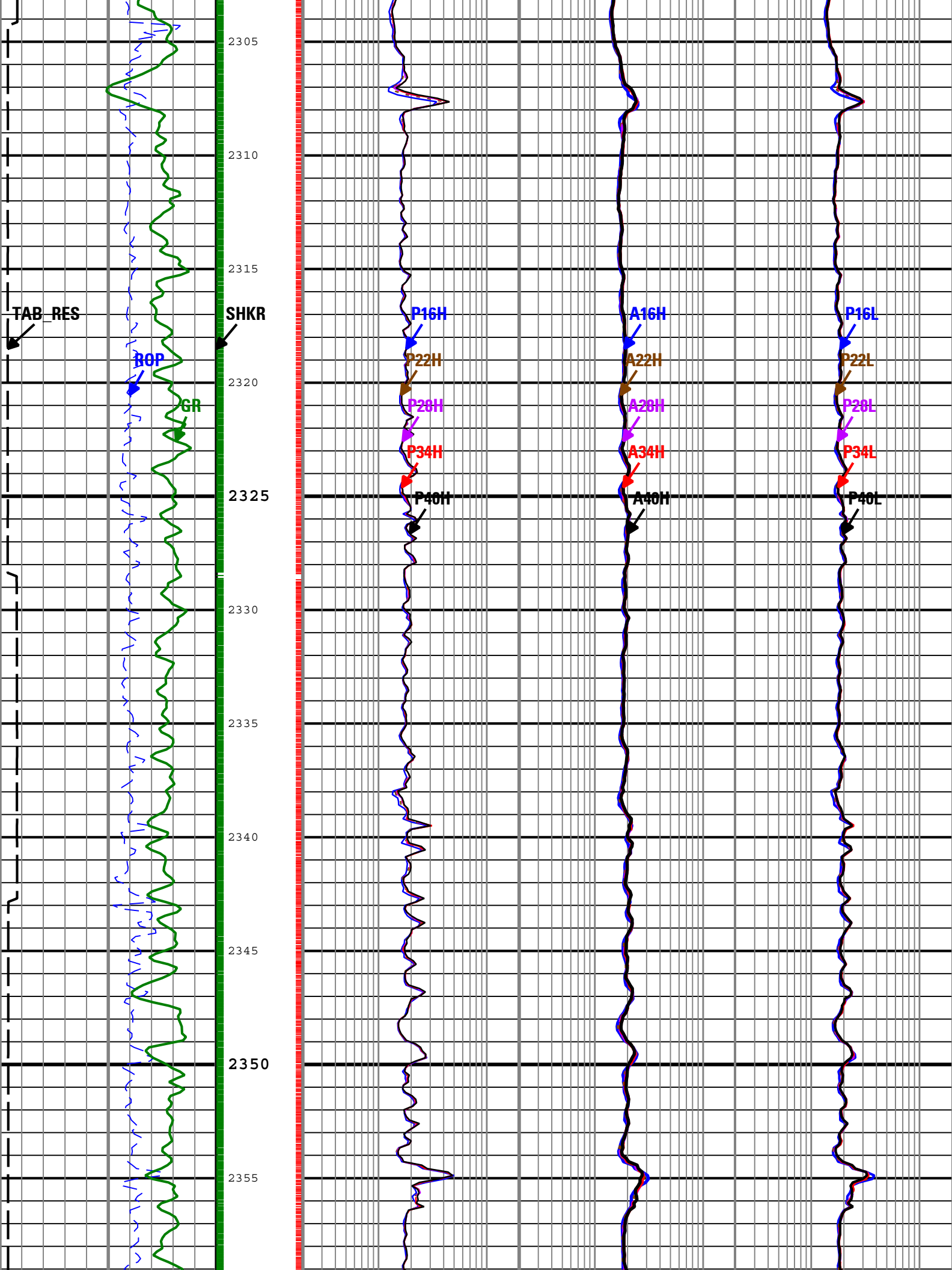


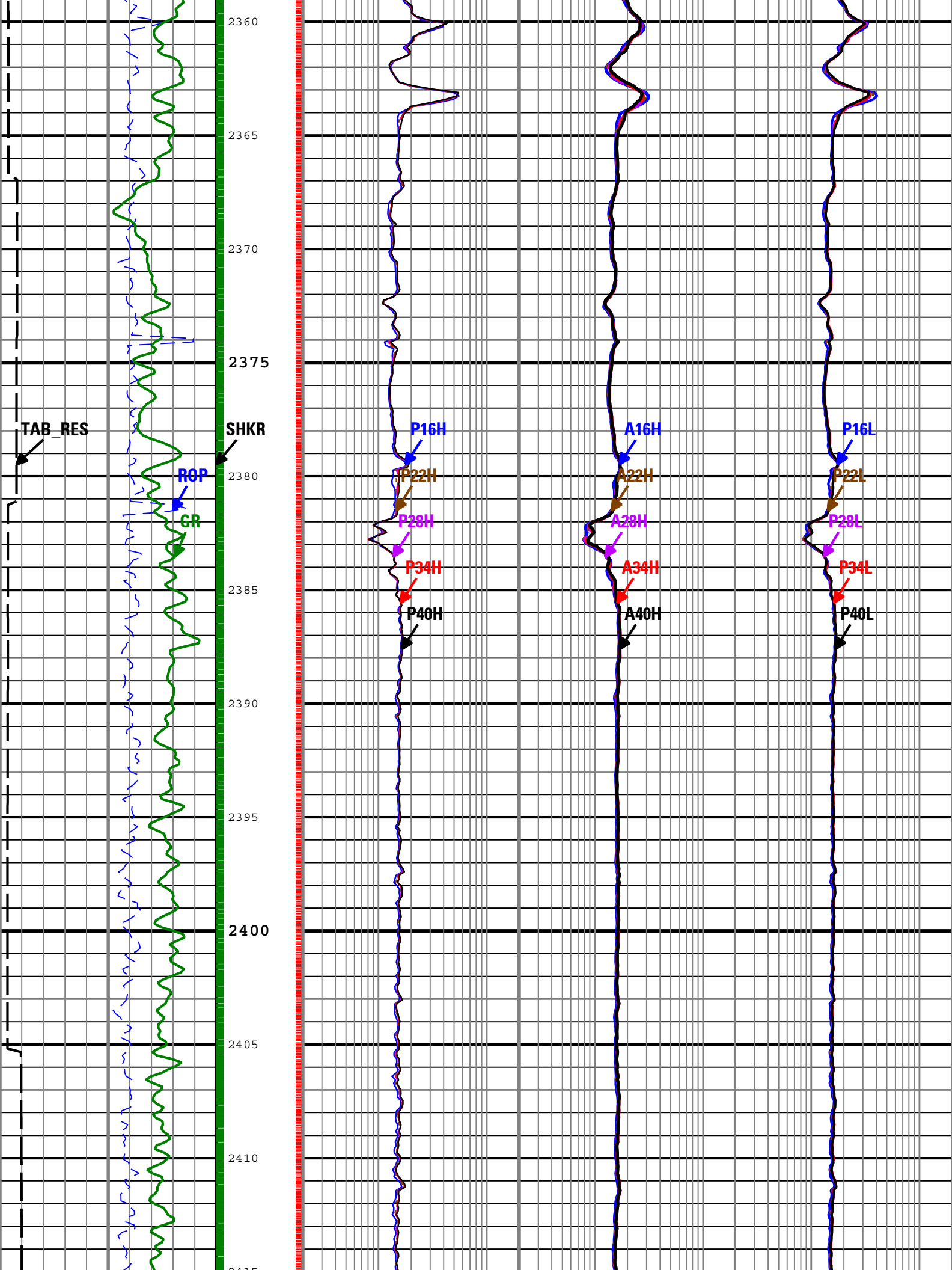


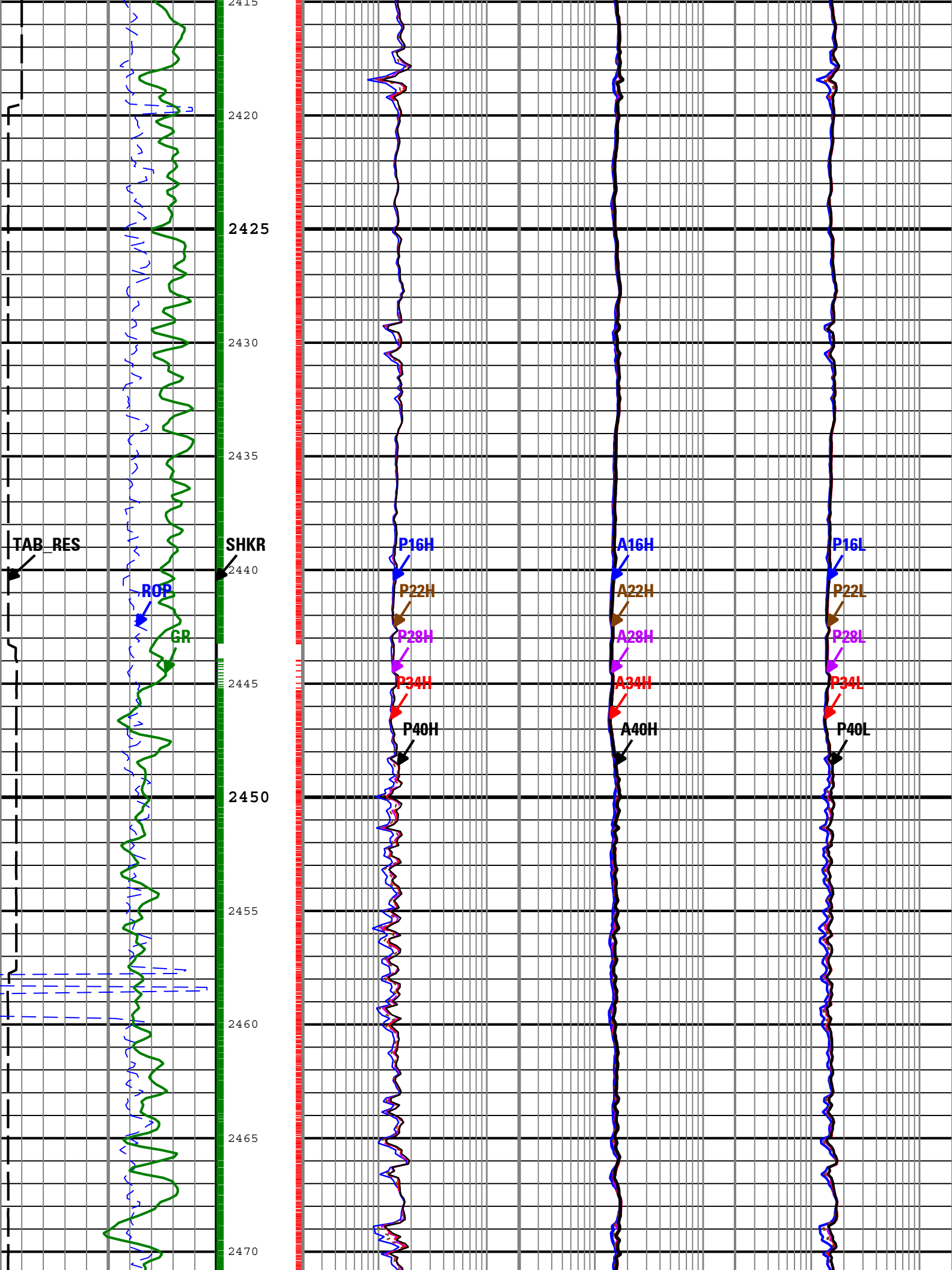


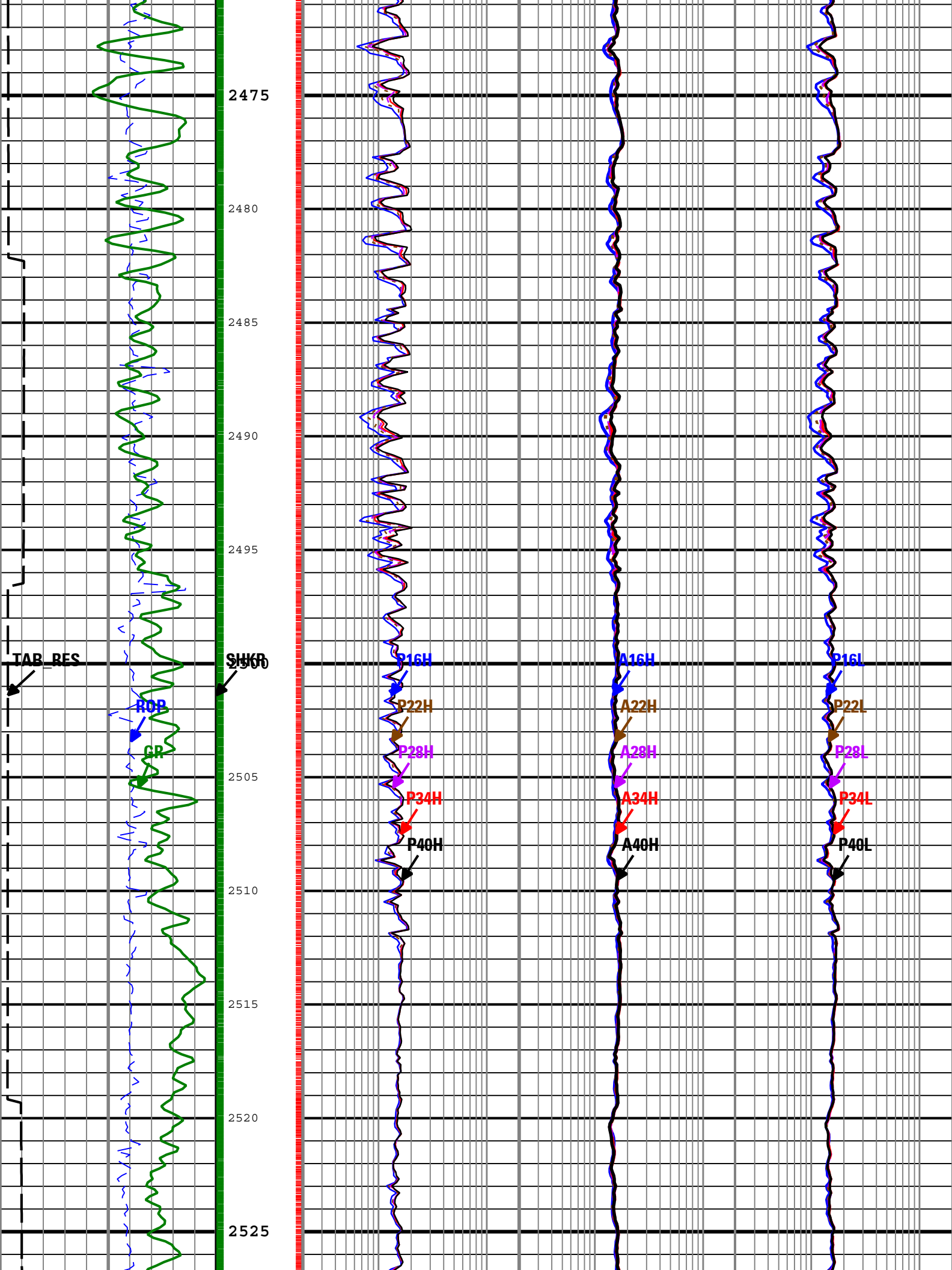


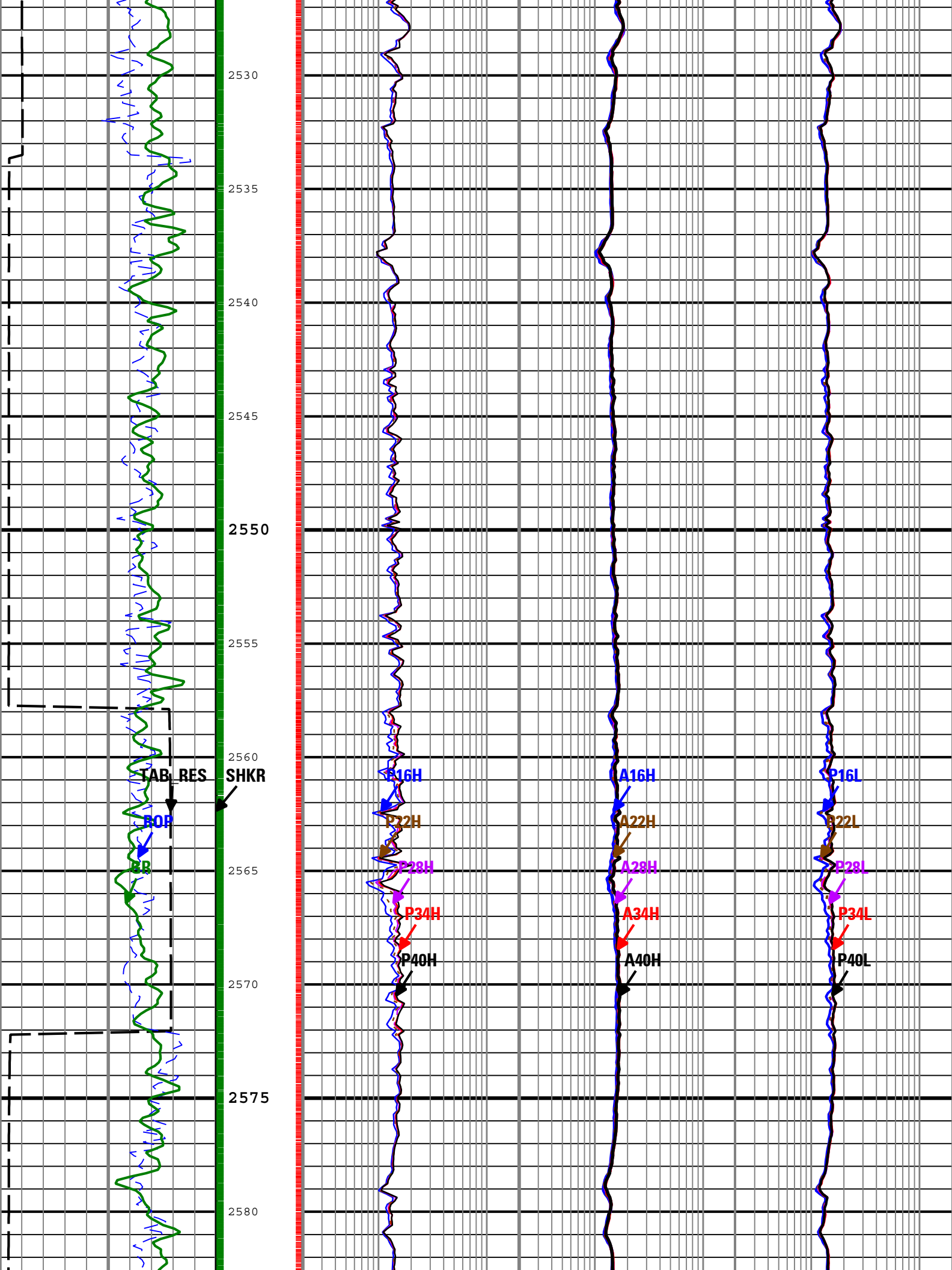


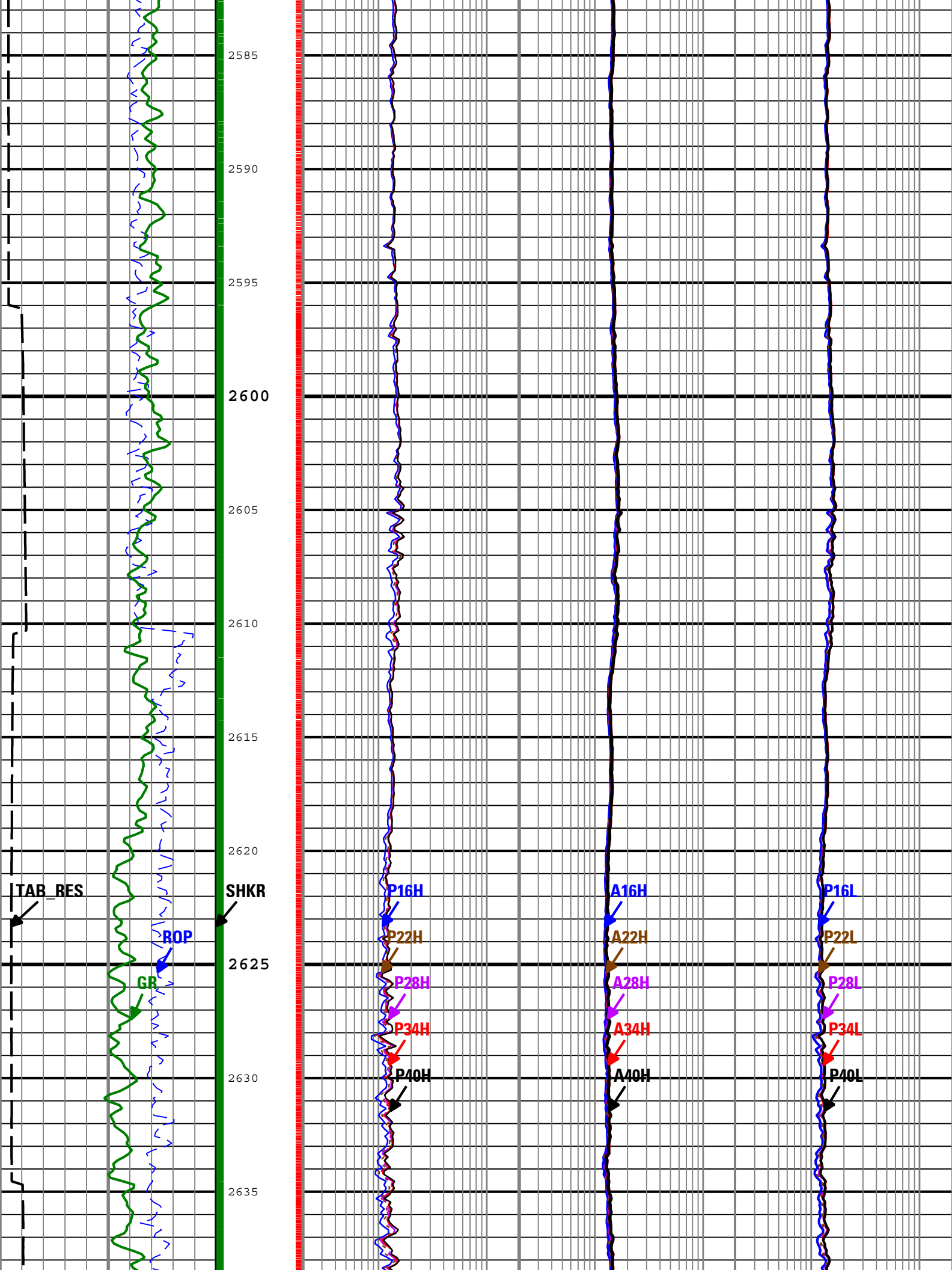


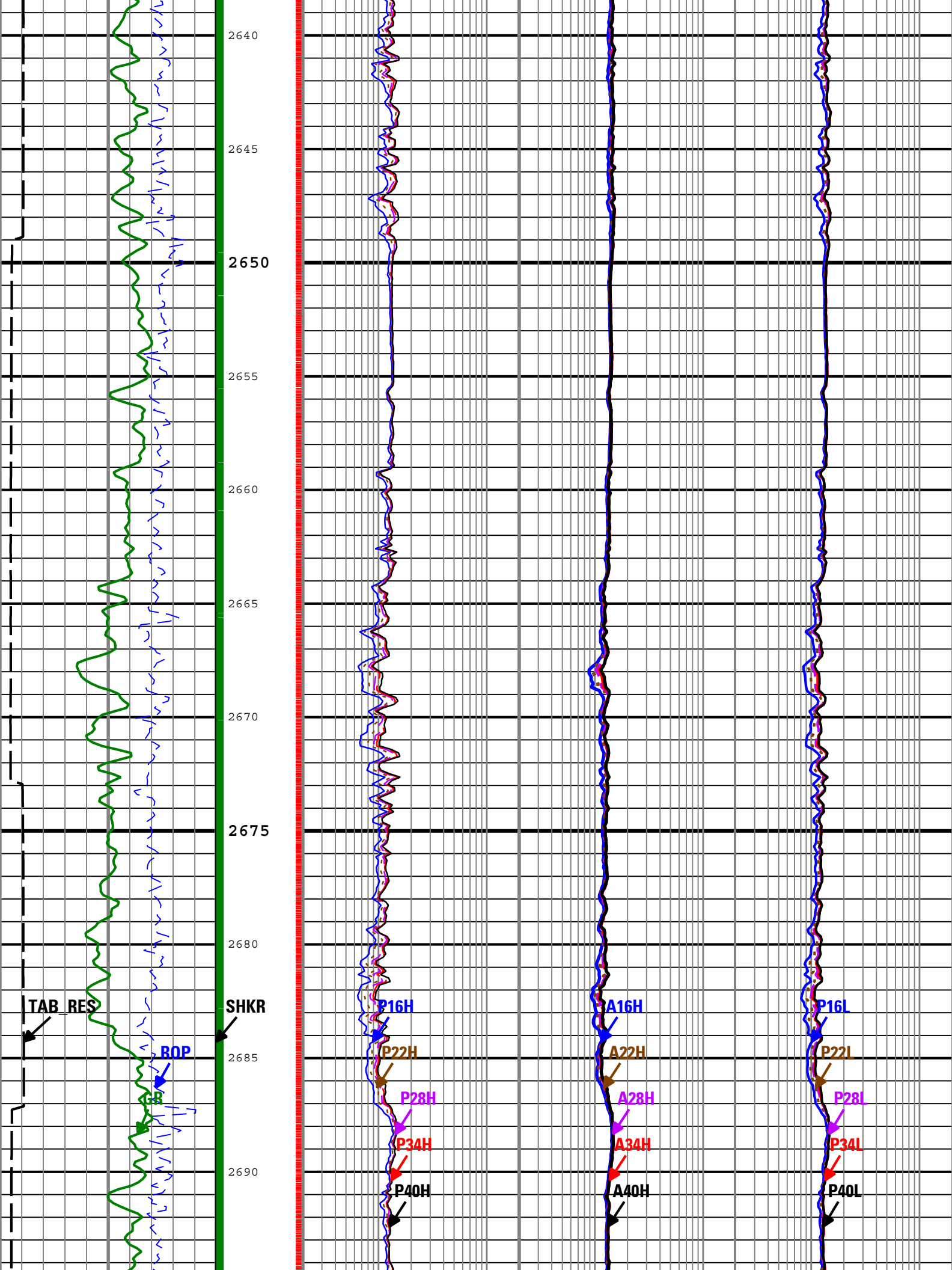


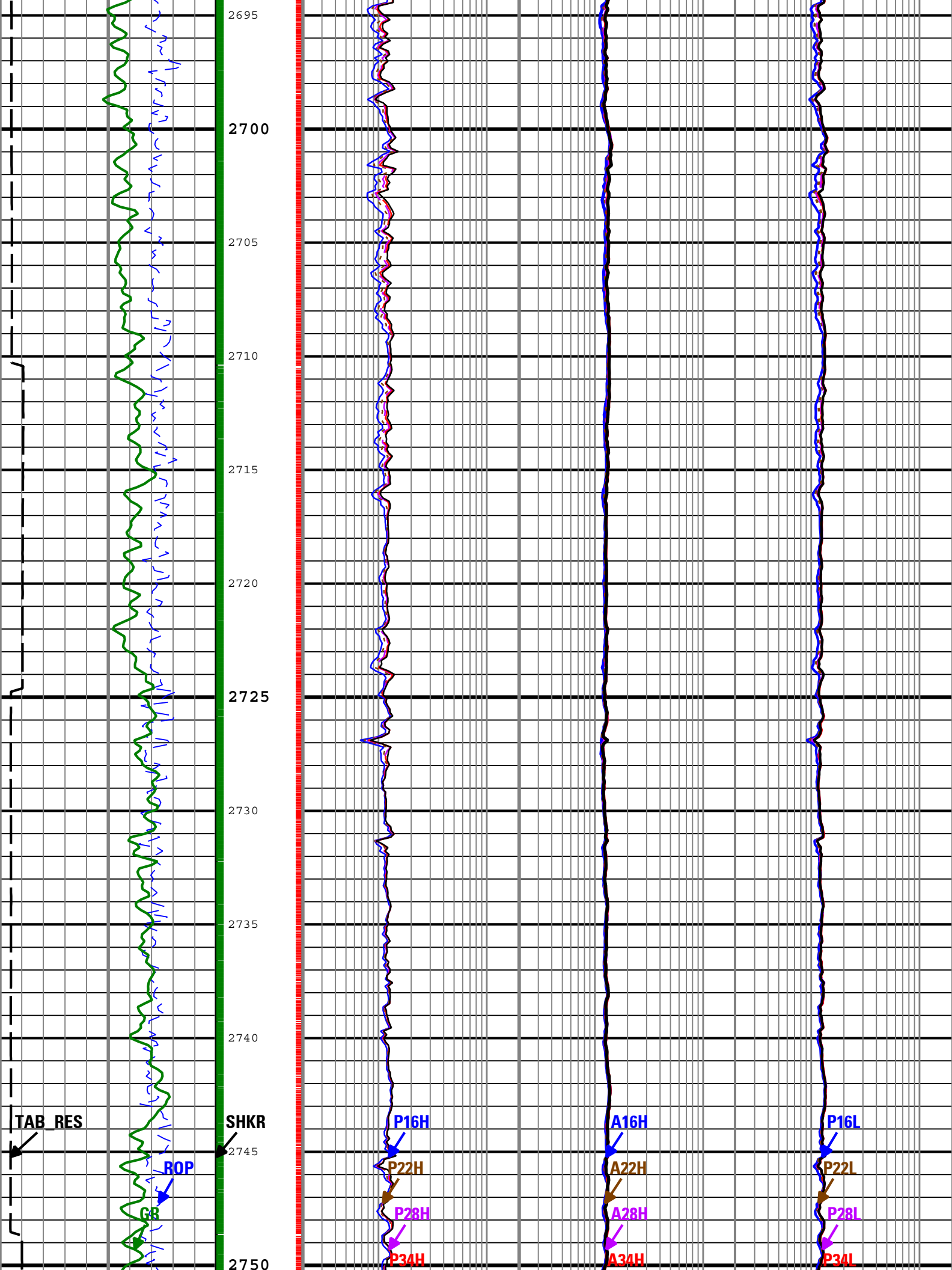


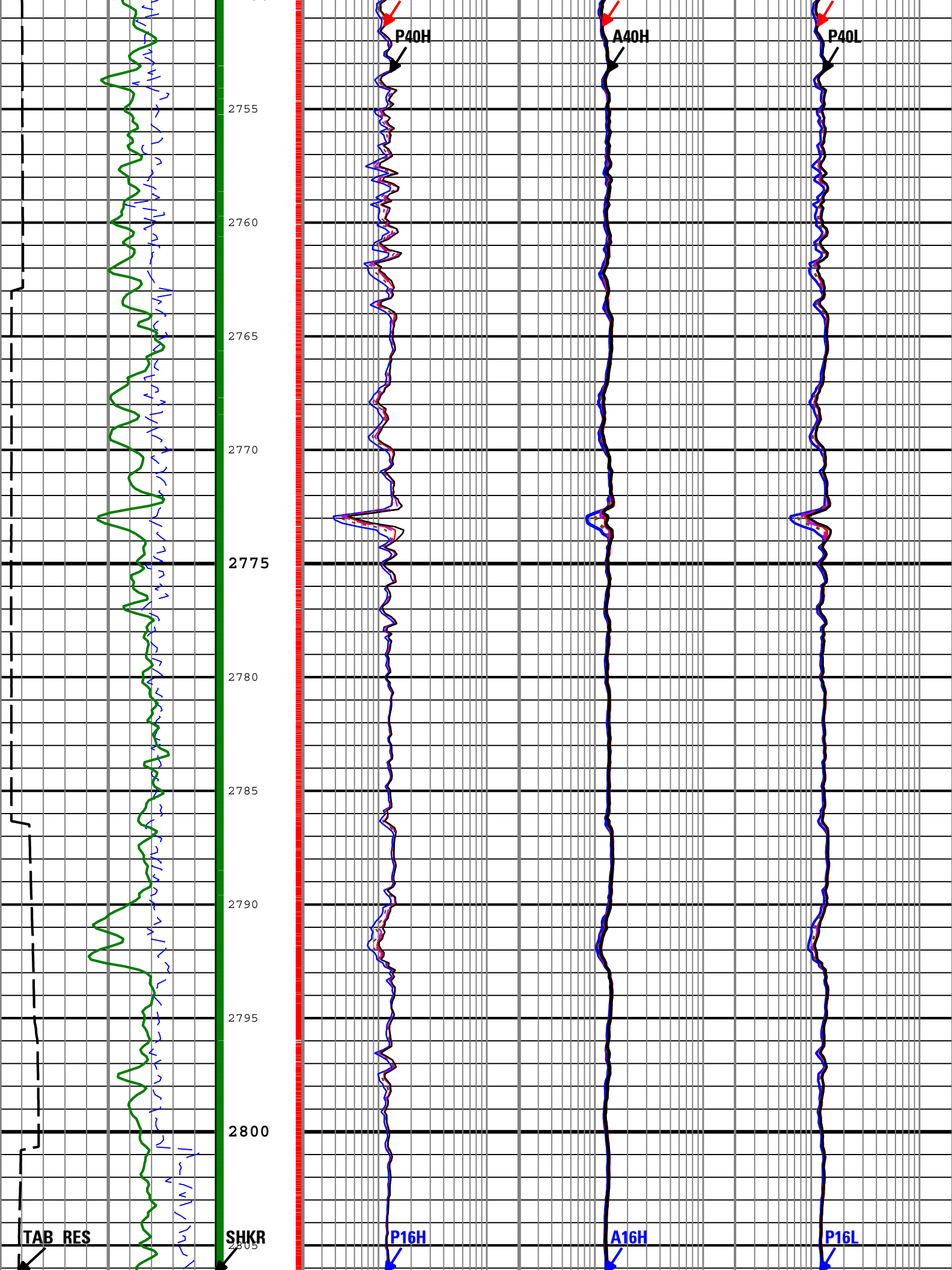


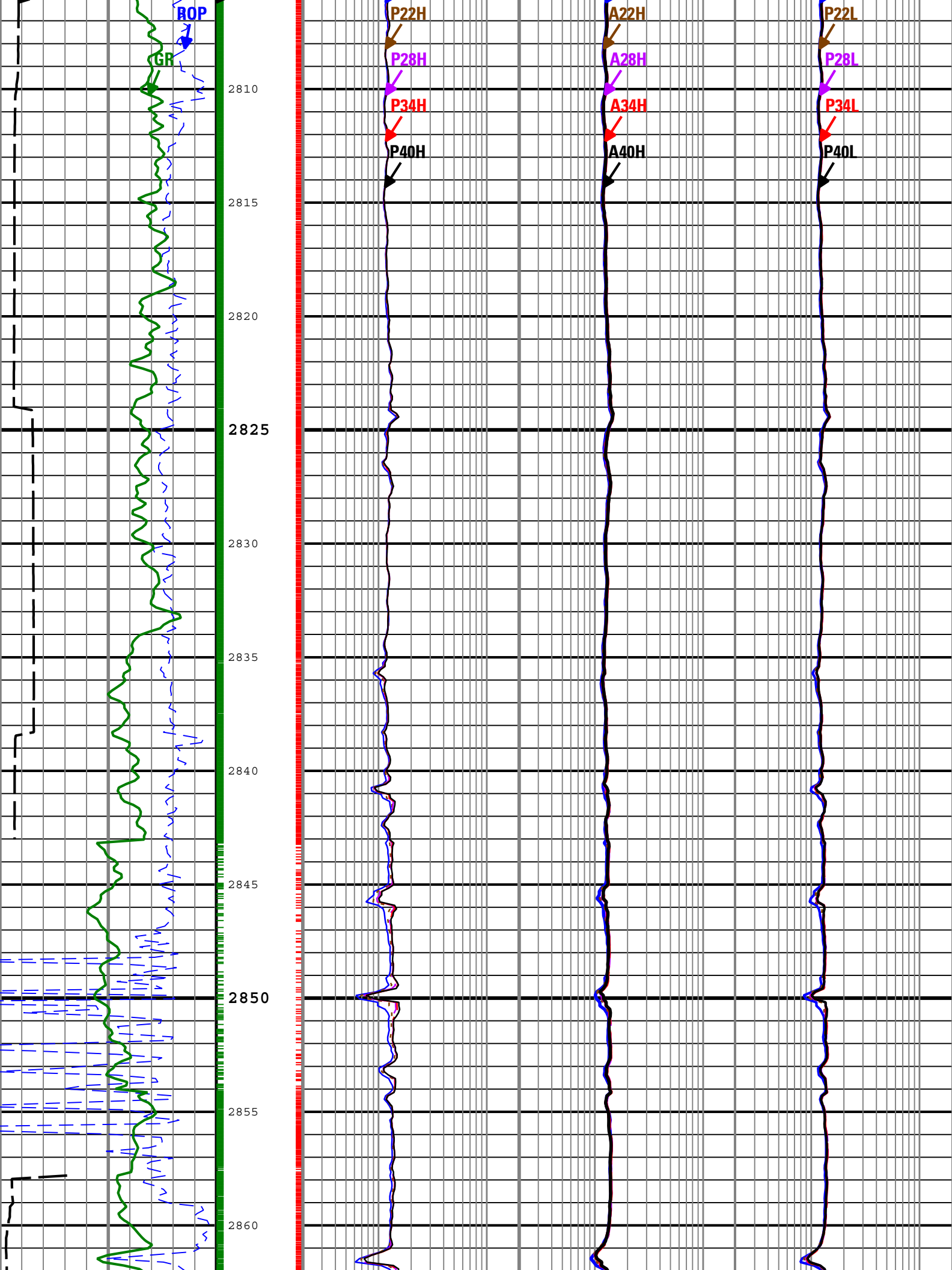


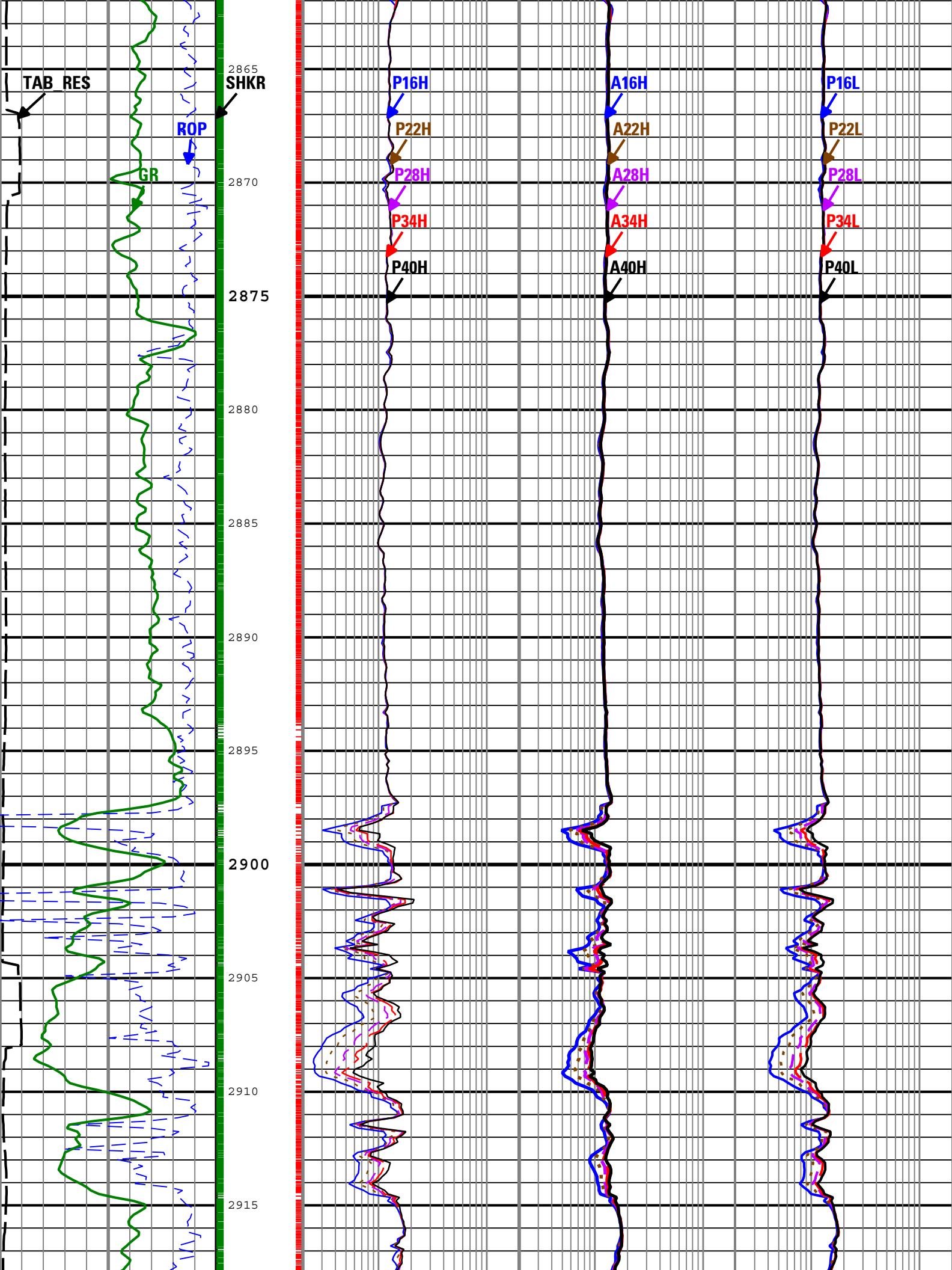


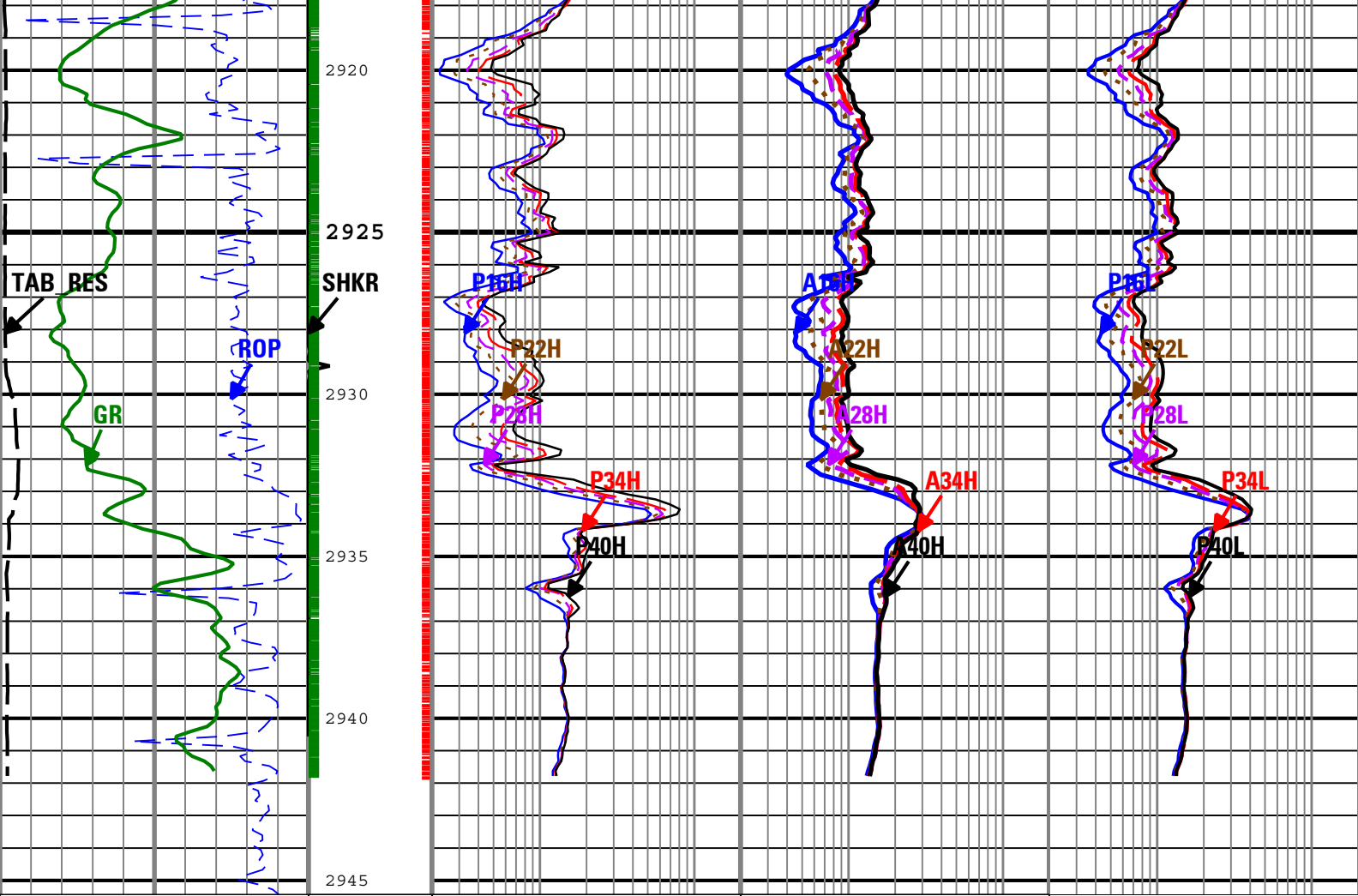












| | | | | |
|---|--|---|---|---|
| Resistivity Time After Bit (TAB_RES) ARC[1] 0 h 10 | Shock Rate (SHKR) ARC[1] RM 0 1/s 100 | Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H) ARC[1] RM 0.2 ohm.m 20 | Attenuation Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected (A16H) ARC[1] RM 0.2 ohm.m 20 | Phase Shift Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected. (P16L) ARC[1] RM 0.2 ohm.m 20 |
| Rate of Penetration (ROP) RT 100 m/h 0 | | Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) ARC[1] RM 0.2 ohm.m 20 | Attenuation Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected (A22H) ARC[1] RM 0.2 ohm.m 20 | Phase Shift Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected. (P22L) ARC[1] RM 0.2 ohm.m 20 |
| Gamma Ray (GR) ARC[1] RM 0 gAPI 100 | | Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) ARC[1] RM 0.2 ohm.m 20 | Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) ARC[1] RM 0.2 ohm.m 20 | Phase Shift Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected. (P28L) ARC[1] RM 0.2 ohm.m 20 |
| | | Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) ARC[1] RM 0.2 ohm.m 20 | Attenuation Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected (A34H) ARC[1] RM 0.2 ohm.m 20 | Phase Shift Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected. (P34L) ARC[1] RM 0.2 ohm.m 20 |
| | | Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) ARC[1] RM 0.2 ohm.m 20 | Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (A40H) ARC[1] RM 0.2 ohm.m 20 | Phase Shift Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected. (P40L) ARC[1] RM 0.2 ohm.m 20 |

┆TICKS_RES - Resistivity Tick Marks ARC[1] RM

┆TICKS_GR - Gamma Ray Tick Marks ARC[1] RM

Description: ARC Dual Frequency 3-Log Resistivity Format: Log (ARC Dual Resistivity 3-Log) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth
 Creation Date: 08-Dec-2010 09:59:52

Channel Processing Parameters

1: Parameters

| Parameter | Description | ToolPath | Value | Unit |
|-----------|---|------------|-----------------|-------|
| BHK | Drilling Fluid Potassium Concentration | Borehole | 0 | % |
| BHT | Bottom Hole Temperature | Borehole | 10 | degC |
| BS | Bit Size | COMPLETION | Depth Zoned | in |
| DEPTH_SEL | Depth Selection Parameter | DNMSESSION | Driller's Depth | |
| DFD | Drilling Fluid Density | Borehole | 1.02 | 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_GRDSURF | |
| MST | Mud Sample Temperature | Borehole | 20 | degC |
| RMS | Resistivity of Mud Sample | Borehole | 0.2 | ohm.m |
| SHT | Surface Hole Temperature | Borehole | 5 | degC |
| TD | Total Measured Depth | Borehole | 2858 | m |

1 : Depth Zoned Parameters

| Parameter | Value | Start (m) | Stop (m) |
|-----------|-------|-------------|------------|
| BS | 0 | 1991.11 | 2006.9 |
| BS | 12.25 | 2006.9 | 2857.75 |

All depth are actual.

2: Parameters

| Parameter | Description | ToolPath | Value | Unit |
|-----------|---|------------|-----------------|-------|
| BHK | Drilling Fluid Potassium Concentration | Borehole | 0 | % |
| BHT | Bottom Hole Temperature | Borehole | 10 | degC |
| BS | Bit Size | COMPLETION | Depth Zoned | in |
| DEPTH_SEL | Depth Selection Parameter | DNMSESSION | Driller's Depth | |
| DFD | Drilling Fluid Density | Borehole | 1.02 | 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_GRDSURF | |
| MST | Mud Sample Temperature | Borehole | 20 | degC |
| RMS | Resistivity of Mud Sample | Borehole | 0.2 | ohm.m |
| SHT | Surface Hole Temperature | Borehole | 12 | degC |
| TD | Total Measured Depth | Borehole | 2946 | m |

2 : Depth Zoned Parameters

| Parameter | Value | Start (m) | Stop (m) |
|-----------|--------|-------------|------------|
| BS | 12.25 | 2805.89 | 2857.75 |
| BS | 10.625 | 2857.75 | 2945.43 |

All depth are actual.

Tool Control Parameters

1: Parameters

| Parameter | Description | ToolPath | Value | Unit |
|-----------|--|-------------|-------|------|
| OFFBTM_TH | Threshold for deciding whether the bit is off bottom | DnMWorkflow | 0.3 | m |

2: Parameters

| Parameter | Description | ToolPath | Value | Unit |
|-----------|--|-------------|-------|------|
| OFFBTM_TH | Threshold for deciding whether the bit is off bottom | DnMWorkflow | 0.3 | m |

Detailed Calibration Record

APCS Calibration Position 1

ARC5 : Calibration Resistivity - 1

| | | | |
|-------------------------------|---------------------------------|---------------------|----------------------|
| Primary Set Components | Description | Tool Element | Serial Number |
| | Electronics with AIM | AREA | 1925F |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 06-Oct-2010 02:42:57 PM - Valid | | |
| Calibration Source | Time Frame File | | |

Calibration Type: Resistivity: Air

| Description | Min/Nominal/Max | Shop | Unit |
|--|------------------------|--------|------|
| ATT1F2AIR Attenuation T1 at 2 MHz | 6.500 / 8.500 / 10.500 | 7.873 | dB |
| ATT2F2AIR Attenuation T2 at 2 MHz | 4.500 / 6.500 / 8.500 | 6.779 | dB |
| ATT3F2AIR Attenuation T3 at 2 MHz | 2.500 / 4.500 / 6.500 | 4.591 | dB |
| ATT4F2AIR Attenuation T4 at 2 MHz | 2.600 / 4.600 / 6.600 | 4.742 | dB |
| ATT5F2AIR Attenuation T5 at 2 MHz | 1.600 / 3.600 / 5.600 | 3.183 | dB |
| PST1F2AIR Phase Shift T1 at 2 MHz | -3.900 / 0.100 / 4.100 | -1.087 | deg |
| PST2F2AIR Phase Shift T2 at 2 MHz | -3.900 / 0.100 / 4.100 | 1.170 | deg |
| PST3F2AIR Phase Shift T3 at 2 MHz | -3.900 / 0.100 / 4.100 | -1.186 | deg |
| PST4F2AIR Phase Shift T4 at 2 MHz | -3.900 / 0.100 / 4.100 | 1.161 | deg |
| PST5F2AIR Phase Shift T5 at 2 MHz | -3.900 / 0.100 / 4.100 | -1.211 | deg |
| ATT1F4AIR Attenuation T1 at 400 KHz | 6.500 / 8.500 / 10.500 | 7.903 | dB |
| ATT2F4AIR Attenuation T2 at 400 KHz | 4.500 / 6.500 / 8.500 | 6.762 | dB |
| ATT3F4AIR Attenuation T3 at 400 KHz | 2.500 / 4.500 / 6.500 | 4.619 | dB |
| ATT4F4AIR Attenuation T4 at 400 KHz | 2.600 / 4.600 / 6.600 | 4.713 | dB |
| ATT5F4AIR Attenuation T5 at 400 KHz | 1.600 / 3.600 / 5.600 | 3.223 | dB |
| PST1F4AIR Phase Shift T1 at 400 KHz | -3.900 / 0.100 / 4.100 | 1.897 | deg |
| PST2F4AIR Phase Shift T2 at 400 KHz | -3.900 / 0.100 / 4.100 | -2.010 | deg |
| PST3F4AIR Phase Shift T3 at 400 KHz | -3.900 / 0.100 / 4.100 | 1.940 | deg |
| PST4F4AIR Phase Shift T4 at 400 KHz | -3.900 / 0.100 / 4.100 | -1.978 | deg |
| PST5F4AIR Phase Shift T5 at 400 KHz | -3.900 / 0.100 / 4.100 | 1.890 | deg |

ARC8 : Calibration Gamma Ray - 1

| | | | |
|-------------------------------|---------------------------------|---------------------|----------------------|
| Primary Set Components | Description | Tool Element | Serial Number |
| | Electronics with AIM | AREA | 1925F |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 06-Oct-2010 04:40:52 PM - Valid | | |
| Calibration Source | Time Frame File | | |

Calibration Type: Gamma Ray: Blanket

| Description | Min/Nominal/Max | Shop | Unit |
|---------------------------------------|-----------------------|-------|------|
| GR_GAIN Gamma Ray Calibration Gain | 0.580 / 1.000 / 1.250 | 1.017 | |

ARC8 : Calibration Resistivity - 2

| | | | |
|-------------------------------|---------------------------------|---------------------|----------------------|
| Primary Set Components | Description | Tool Element | Serial Number |
| | Electronics with AIM | AREA | 1925F |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 06-Oct-2010 02:42:57 PM - Valid | | |

| | | | |
|--------------------|-----------------|--|--|
| Calibration Source | Time Frame File | | |
|--------------------|-----------------|--|--|

Calibration Type: Resistivity: Air

| Description | Min/Nominal/Max | Shop | Unit |
|--|------------------------|--------|------|
| ATT1F2AIR Attenuation T1 at 2 MHz | 6.500 / 8.500 / 10.500 | 7.873 | dB |
| ATT2F2AIR Attenuation T2 at 2 MHz | 4.500 / 6.500 / 8.500 | 6.779 | dB |
| ATT3F2AIR Attenuation T3 at 2 MHz | 2.500 / 4.500 / 6.500 | 4.591 | dB |
| ATT4F2AIR Attenuation T4 at 2 MHz | 2.600 / 4.600 / 6.600 | 4.742 | dB |
| ATT5F2AIR Attenuation T5 at 2 MHz | 1.600 / 3.600 / 5.600 | 3.183 | dB |
| PST1F2AIR Phase Shift T1 at 2 MHz | -3.900 / 0.100 / 4.100 | -1.087 | deg |
| PST2F2AIR Phase Shift T2 at 2 MHz | -3.900 / 0.100 / 4.100 | 1.170 | deg |
| PST3F2AIR Phase Shift T3 at 2 MHz | -3.900 / 0.100 / 4.100 | -1.186 | deg |
| PST4F2AIR Phase Shift T4 at 2 MHz | -3.900 / 0.100 / 4.100 | 1.161 | deg |
| PST5F2AIR Phase Shift T5 at 2 MHz | -3.900 / 0.100 / 4.100 | -1.211 | deg |
| ATT1F4AIR Attenuation T1 at 400 KHz | 6.500 / 8.500 / 10.500 | 7.903 | dB |
| ATT2F4AIR Attenuation T2 at 400 KHz | 4.500 / 6.500 / 8.500 | 6.762 | dB |
| ATT3F4AIR Attenuation T3 at 400 KHz | 2.500 / 4.500 / 6.500 | 4.619 | dB |
| ATT4F4AIR Attenuation T4 at 400 KHz | 2.600 / 4.600 / 6.600 | 4.713 | dB |
| ATT5F4AIR Attenuation T5 at 400 KHz | 1.600 / 3.600 / 5.600 | 3.223 | dB |
| PST1F4AIR Phase Shift T1 at 400 KHz | -3.900 / 0.100 / 4.100 | 1.897 | deg |
| PST2F4AIR Phase Shift T2 at 400 KHz | -3.900 / 0.100 / 4.100 | -2.010 | deg |
| PST3F4AIR Phase Shift T3 at 400 KHz | -3.900 / 0.100 / 4.100 | 1.940 | deg |
| PST4F4AIR Phase Shift T4 at 400 KHz | -3.900 / 0.100 / 4.100 | -1.978 | deg |
| PST5F4AIR Phase Shift T5 at 400 KHz | -3.900 / 0.100 / 4.100 | 1.890 | deg |

ARC8 : Calibration Gamma Ray - 2

| Primary Set Components | Description | Tool Element | Serial Number |
|------------------------|----------------------|--------------|---------------|
| | Electronics with AIM | AREA | 1925F |

| Calibration Dates | Shop Calibration | | |
|-----------------------------|---------------------------------|--|--|
| Date & Time / Date Validity | 06-Oct-2010 04:40:52 PM - Valid | | |
| Calibration Source | Time Frame File | | |

Calibration Type: Gamma Ray: Blanket

| Description | Min/Nominal/Max | Shop | Unit |
|---------------------------------------|-----------------------|-------|------|
| GR_GAIN Gamma Ray Calibration Gain | 0.580 / 1.000 / 1.250 | 1.017 | |

Company: JAMSTEC
MQJ

Well: NT3-01

Field: Nankai Kumano Basin

Rig Name: Chikyu

State: Mie Prefecture

Country: Japan

