

Schlumberger

Beach Petroleum Ltd

VISION Service

1:500 Measured Depth

Company:

Beach Petroleum Ltd

Well:

Spikey Beach-1

Field:

Exploration

County:

n/a

State:

Tasmania

Country:

Australia

Section:

Custom:

Township:

Rig Name:

Ocean Patriot

Range:

Rig Type:

Semi Submersible

FL: Exploration

FL1:

FL2:

Log Measured From - Drill Floor: 21.5 m

Permanent Datum - Mean Sea Level

Ground Level: 74.0 m

Acquisition Dates:

11 Sep 09 to 13 Sep 09

Print Interval:

803.0(m) to 2100.2(m)

Index Types:

Measured Depth

Index Scales:

1:500

Depth Source:

Driller's Depth

Depth Sensor:

DES

Conveyance:

Drill Pipe

Print Type:

Final

Spud Date:

05-Sep-2009

Other Services:

Directional Surveys

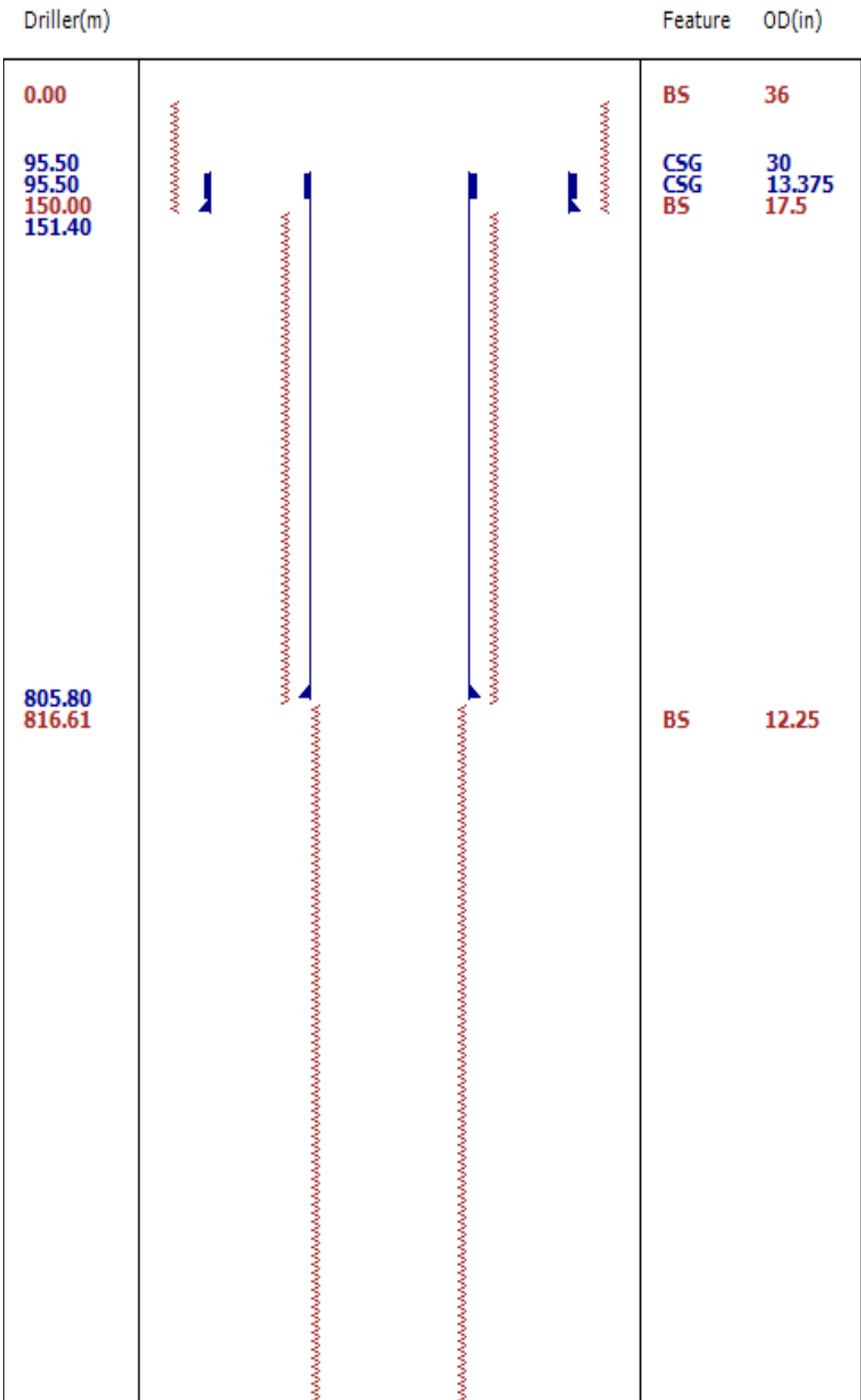
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 - Parameter Listing
- Detailed Calibration Record
- Tail

Well Sketch



2100.35

Borehole Size/Casing Record

| | | | | | | |
|-----------------------|--------|--------|---------|--|--|--|
| Bit | | | | | | |
| Bit Size (in) | 36 | 17.5 | 12.25 | | | |
| Bottom Driller (m) | 150 | 816.61 | 2100.35 | | | |
| Casing | | | | | | |
| Size (in) | 30 | 13.375 | | | | |
| Weight (kg/m) | 169.65 | 82.59 | | | | |
| Inner Diameter (in) | 29.296 | 12.592 | | | | |
| Grade | N/A | N80 | | | | |
| Top Driller (m) | 95.5 | 95.5 | | | | |
| Bottom Driller (m) | 151.4 | 805.8 | | | | |

Operational Run Summary

| | | | | | | |
|----------------------------------|-----------------|--|--|--|--|--|
| Parameter (unit) | Run 2 | | | | | |
| Date Log Started | 10-Sep-2009 | | | | | |
| Time Log Started | 19:59:13 | | | | | |
| Date Log Finished | 13-Sep-2009 | | | | | |
| Time Log Finished | 15:53:56 | | | | | |
| | | | | | | |
| Bit Size (in) | 12.250 | | | | | |
| Bit Start Depth (m) | 804.72 | | | | | |
| Bit Stop Depth (m) | 2100.35 | | | | | |
| Top Log Interval (m) | NaN | | | | | |
| Bottom Log Interval (m) | NaN | | | | | |
| | | | | | | |
| Max Hole Deviation (deg) | 0.73 | | | | | |
| Azimuth of Max Deviation (deg) | 105.25 | | | | | |
| | | | | | | |
| Logging Unit Number | OLU-KC-0702 | | | | | |
| Logging Unit Location | | | | | | |
| Recorded By | Marganda Sihite | | | | | |
| Witnessed By | Fred/Peter | | | | | |
| Service Order Number | 09ASQ0029 | | | | | |


Borehole Fluids

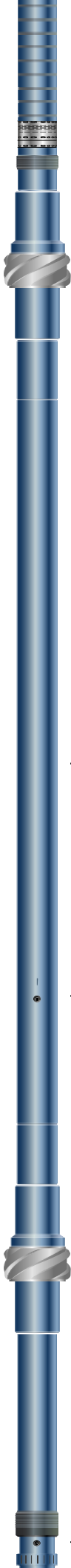
| | | | | | | |
|-----------------------------------|-------------|--|--|--|--|--|
| Parameter (unit) | Run 2 | | | | | |
| Type Fluid | Water | | | | | |
| Max Recorded Temperature (degC) | | | | | | |
| Source of Sample | Active Tank | | | | | |
| Salinity (ppm) | Zoned | | | | | |
| Density (lbm/gal) | Zoned | | | | | |

| | | | | | | |
|-----------------------------------|---------|--|--|--|--|--|
| Viscosity (s) | Zoned | | | | | |
| Fluid Loss (cm3) | | | | | | |
| pH | Zoned | | | | | |
| Source Rmf | | | | | | |
| Source Rmc | Pressed | | | | | |
| Rm @ Meas Temp (ohm.m@degC) | Zoned | | | | | |
| Rmf @ Meas Temp (ohm.m@degC) | Zoned | | | | | |
| Rmc @ Meas Temp (ohm.m@degC) | Zoned | | | | | |
| Rm @ BHT (ohm.m@degC) | Zoned | | | | | |
| Rmf @ BHT (ohm.m@degC) | Zoned | | | | | |
| Rmc @ BHT (ohm.m@degC) | Zoned | | | | | |

Zoned Borehole Fluids

| Run 2 | | |
|-----------------|-------------|-----------------------|
| Parameter | Value | Start |
| Salinity | 117818.2 | 9/10/2009 7:59:12 PM |
| Salinity | 102066.1 | 9/11/2009 11:30:28 AM |
| Salinity | 98242.83 | 9/12/2009 2:00:00 AM |
| Density | 9 | 9/10/2009 7:59:12 PM |
| Density | 9.10 | 9/11/2009 11:30:28 AM |
| Density | 9.5 | 9/12/2009 2:00:00 AM |
| Viscosity | 43 | 9/10/2009 7:59:12 PM |
| Viscosity | 52 | 9/11/2009 11:30:28 AM |
| Viscosity | 59 | 9/12/2009 2:00:00 AM |
| pH | 9 | 9/10/2009 7:59:12 PM |
| pH | 9.5 | 9/11/2009 11:30:28 AM |
| Meas Temp | 17.9 | 9/10/2009 7:59:12 PM |
| Meas Temp | 20.9 | 9/11/2009 7:28:28 PM |
| Meas Temp | 22.4 | 9/12/2009 7:30:04 PM |
| Meas Temp | 18.6 | 9/10/2009 7:59:12 PM |
| Meas Temp | 21 | 9/11/2009 7:28:28 PM |
| Meas Temp | 22.8 | 9/12/2009 7:30:04 PM |
| Meas Temp | 20.1 | 9/10/2009 7:59:12 PM |
| Meas Temp | 21.3 | 9/11/2009 7:28:28 PM |
| Meas Temp | 22.1 | 9/12/2009 7:30:04 PM |
| Rm @ Meas Temp | 0.07 @ 17.9 | 9/10/2009 7:59:12 PM |
| Rm @ Meas Temp | 0.08 @ 20.9 | 9/11/2009 7:28:28 PM |
| Rm @ Meas Temp | 0.07 @ 22.4 | 9/12/2009 7:30:04 PM |
| Rmf @ Meas Temp | 0.07 @ 18.6 | 9/10/2009 7:59:12 PM |
| Rmf @ Meas Temp | 0.07 @ 21 | 9/11/2009 7:28:28 PM |
| Rmf @ Meas Temp | 0.06 @ 22.8 | 9/12/2009 7:30:04 PM |
| Rmc @ Meas Temp | 0.08 @ 20.1 | 9/10/2009 7:59:12 PM |
| Rmc @ Meas Temp | 0.34 @ 22.1 | 9/12/2009 7:30:04 PM |
| Rm @ BHT | 0.03 @ 68 | 9/10/2009 7:59:12 PM |
| Rm @ BHT | 0.05 @ 68 | 9/12/2009 7:30:04 PM |
| Rm @ BHT | 0.05 @ 68 | 9/12/2009 10:53:04 PM |
| Rmf @ BHT | 0.03 @ 68 | 9/10/2009 7:59:12 PM |
| Rmf @ BHT | 0.04 @ 68 | 9/11/2009 7:28:28 PM |
| Rmf @ BHT | 0.04 @ 68 | 9/12/2009 7:30:04 PM |

| Remarks and Equipment Summary | | |
|---|----------------|--|
| Run 2: Toolstring | Run 2: Remarks | |
| <div><div><div>Cum. Length 45.61 SADN8: 43225</div><div></div><div><div>adhVISION (stabilized) 43225</div><div>Neutron 41.75</div><div>ROP 40.55</div><div>Density 39.77 UltraSonic 39.60</div><div>sonicVISION 42784</div><div>Delta-T 33.83 ROP 33.43</div></div></div></div> | | |



Cum. Length 29.58
Stab: 9":AWA7261

sonicVISION NM-ILS

Cum. Length 28.73
TELE825:ZH22

TeleScope ZH22

— D&I 24.45

— ROP 22.10

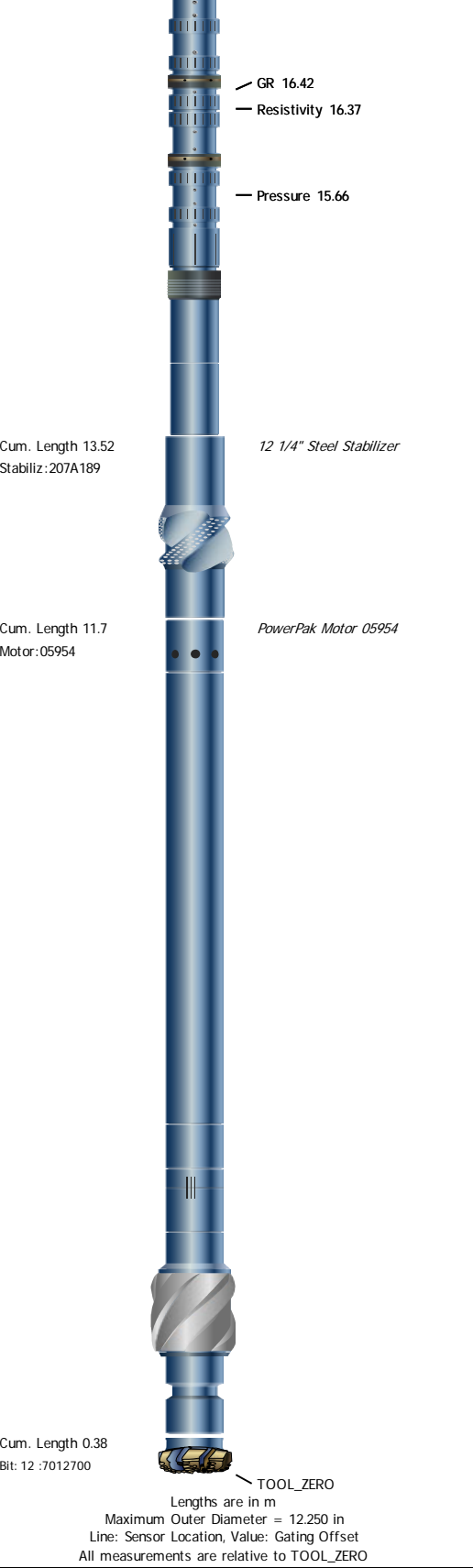
Cum. Length 20.67
Stab: 9":ASQ9029

TeleScope NM-ILS

Cum. Length 19.76
ARC8:1216

arcVISION 1216

— ROP 17.49



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 : | 0.73 deg | | |

| Rig Location | | | |
|--------------|-----------------|-------------|-------------------|
| Latitude : | 40° 28' 53.9" S | Longitude : | 145° 52' 24.71" 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 - Run 1 | | | | | | | | | | | | | | |
| Geomagnetic Model : | | BGGM 2009 | | | | Geomagnetic Date : | | 07-Sep-2009 | | | | | | |
| Computed Location B : | | 61230.34 nT +/- 300.00nT | | | | Used Location B : | | 61230.34 nT +/- 300.00nT | | | | | | |
| Computed Location G : | | 999.55 mgn +/- 2.50mgn | | | | Used Location G : | | 999.55 mgn +/- 2.50mgn | | | | | | |
| Computed Magnetic Dip : | | -70.91 deg +/- 0.45deg | | | | Used Magnetic Dip : | | -70.91 deg +/- 0.45deg | | | | | | |
| Computed Magnetic Dec : | | 12.97 deg | | | | Used Magnetic Dec : | | 12.97 deg | | | | | | |
| Computed Total Correction : | | 12.24 deg | | | | Used Total Correction : | | 12.24 deg | | | | | | |
| D&I Inits Computed and Values Used - Run 2 | | | | | | | | | | | | | | |
| Geomagnetic Model : | | BGGM 2009 | | | | Geomagnetic Date : | | 10-Sep-2009 | | | | | | |
| Computed Location B : | | 61230.23 nT +/- 300.00nT | | | | Used Location B : | | 61230.23 nT +/- 300.00nT | | | | | | |
| Computed Location G : | | 999.55 mgn +/- 2.50mgn | | | | Used Location G : | | 999.55 mgn +/- 2.50mgn | | | | | | |
| Computed Magnetic Dip : | | -70.91 deg +/- 0.45deg | | | | Used Magnetic Dip : | | -70.91 deg +/- 0.45deg | | | | | | |
| Computed Magnetic Dec : | | 12.97 deg | | | | Used Magnetic Dec : | | 12.97 deg | | | | | | |
| Computed Total Correction : | | 12.24 deg | | | | Used Total Correction : | | 12.24 deg | | | | | | |
| Survey Quality Index | | | | | | | | | | | | | | |
| 0 : Long, passed all criteria | | 9 : Manual | | | | 10 : DMAG-Corrected | | | | | | | | |
| 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 | 179.35 | 0.24 | 83.43 | 179.35 | 179.35 | 0.04 | 0.04 | 0.37 | 0.38 | 83.43 | 0.04 | Manual | 10 | |
| 3 | 206.93 | 0.26 | 40.89 | 27.58 | 206.93 | 0.10 | 0.10 | 0.47 | 0.48 | 78.39 | 0.20 | Manual | 10 | |
| 4 | 294.67 | 0.37 | 50.63 | 87.74 | 294.67 | 0.43 | 0.43 | 0.82 | 0.93 | 62.51 | 0.04 | Manual | 10 | |
| 5 | 338.42 | 0.10 | 101.79 | 43.75 | 338.42 | 0.51 | 0.51 | 0.97 | 1.09 | 62.25 | 0.22 | Manual | 10 | |
| 6 | 352.67 | 0.17 | 96.28 | 14.25 | 352.67 | 0.50 | 0.50 | 1.00 | 1.12 | 63.26 | 0.15 | Manual | 10 | |
| 7 | 382.26 | 0.19 | 48.22 | 29.59 | 382.26 | 0.53 | 0.53 | 1.08 | 1.20 | 63.80 | 0.15 | Manual | 10 | |
| 8 | 468.33 | 0.04 | 55.57 | 86.07 | 468.33 | 0.64 | 0.64 | 1.21 | 1.37 | 62.02 | 0.05 | Manual | 10 | |
| 9 | 514.50 | 0.11 | 259.09 | 46.17 | 514.50 | 0.64 | 0.64 | 1.18 | 1.35 | 61.39 | 0.10 | Manual | 10 | |
| 10 | 556.06 | 0.15 | 276.07 | 41.56 | 556.06 | 0.64 | 0.64 | 1.09 | 1.26 | 59.43 | 0.04 | Manual | 10 | |
| 11 | 642.56 | 0.27 | 259.55 | 86.50 | 642.56 | 0.62 | 0.62 | 0.78 | 0.99 | 51.45 | 0.05 | Manual | 10 | |
| 12 | 727.80 | 0.25 | 254.10 | 85.24 | 727.80 | 0.53 | 0.53 | 0.40 | 0.66 | 36.95 | 0.01 | Manual | 10 | |
| 13 | 755.00 | 0.16 | 261.45 | 27.20 | 755.00 | 0.51 | 0.51 | 0.30 | 0.59 | 30.91 | 0.10 | Manual | 10 | |
| 14 | 786.24 | 0.17 | 245.91 | 31.24 | 786.24 | 0.48 | 0.48 | 0.22 | 0.53 | 24.39 | 0.04 | Manual | 10 | |
| 15 | 803.80 | 0.18 | 263.56 | 17.56 | 803.80 | 0.47 | 0.47 | 0.17 | 0.50 | 19.67 | 0.09 | Manual | 10 | |
| 16 | 879.04 | 0.43 | 77.12 | 75.24 | 879.04 | 0.52 | 0.52 | 0.33 | 0.61 | 32.23 | 0.24 | TeleScope | 0 | 0 |
| 17 | 990.83 | 0.34 | 90.11 | 111.78 | 990.82 | 0.61 | 0.61 | 1.08 | 1.24 | 60.31 | 0.03 | TeleScope | 0 | 0 |
| 18 | 1078.27 | 0.31 | 90.35 | 87.44 | 1078.26 | 0.61 | 0.61 | 1.58 | 1.69 | 68.83 | 0.01 | TeleScope | 0 | 0 |
| 19 | 1164.94 | 0.40 | 84.09 | 86.67 | 1164.93 | 0.64 | 0.64 | 2.12 | 2.21 | 73.16 | 0.03 | TeleScope | 0 | 0 |
| 20 | 1221.27 | 0.44 | 97.02 | 56.33 | 1221.26 | 0.63 | 0.63 | 2.53 | 2.61 | 75.91 | 0.06 | TeleScope | 0 | 0 |
| 21 | 1338.66 | 0.51 | 93.25 | 117.39 | 1338.64 | 0.55 | 0.55 | 3.50 | 3.55 | 81.09 | 0.02 | TeleScope | 0 | 0 |
| 22 | 1367.75 | 0.54 | 94.83 | 29.09 | 1367.73 | 0.53 | 0.53 | 3.77 | 3.81 | 81.99 | 0.03 | TeleScope | 0 | 0 |
| 23 | 1456.65 | 0.52 | 105.25 | 88.90 | 1456.63 | 0.39 | 0.39 | 4.57 | 4.59 | 85.12 | 0.03 | TeleScope | 0 | 0 |
| 24 | 1530.18 | 0.55 | 90.58 | 73.53 | 1530.15 | 0.30 | 0.30 | 5.24 | 5.25 | 86.74 | 0.06 | TeleScope | 0 | 0 |
| 25 | 1596.34 | 0.49 | 77.67 | 66.16 | 1596.31 | 0.36 | 0.36 | 5.84 | 5.85 | 86.51 | 0.06 | TeleScope | 0 | 0 |
| 26 | 1625.50 | 0.47 | 69.82 | 29.16 | 1625.48 | 0.42 | 0.42 | 6.08 | 6.09 | 86.01 | 0.07 | TeleScope | 0 | 0 |
| 27 | 1682.67 | 0.41 | 85.01 | 57.16 | 1682.63 | 0.52 | 0.52 | 6.50 | 6.52 | 85.40 | 0.07 | TeleScope | 0 | 0 |
| 28 | 1767.94 | 0.46 | 80.24 | 85.27 | 1767.90 | 0.61 | 0.61 | 7.14 | 7.17 | 85.14 | 0.02 | TeleScope | 0 | 0 |

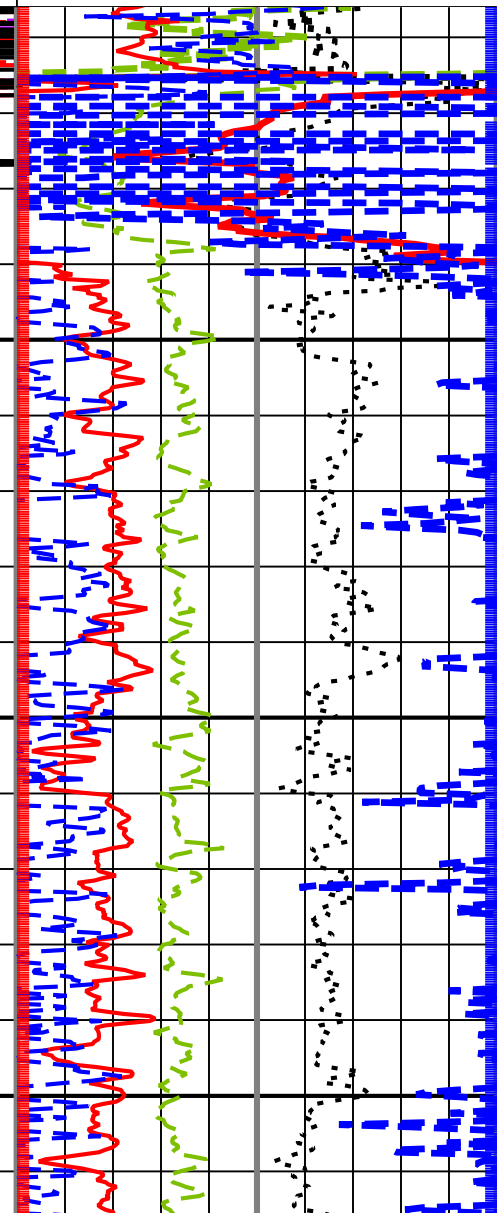
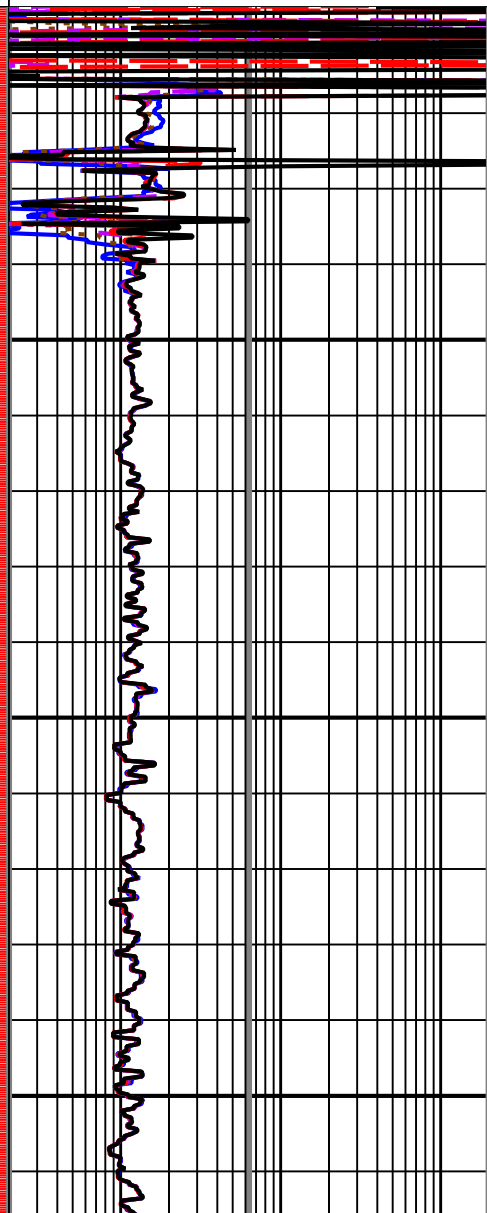
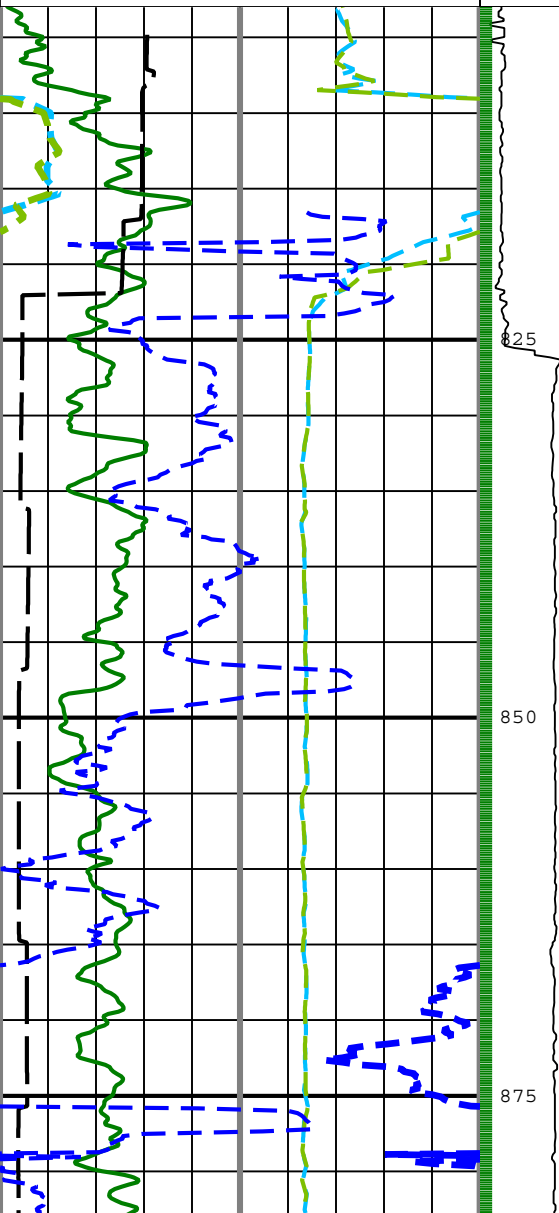
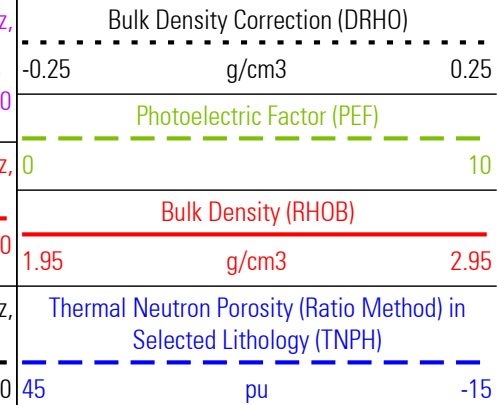
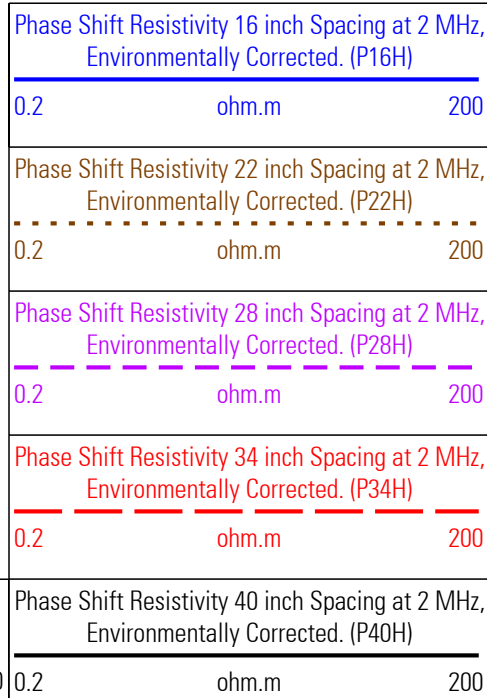
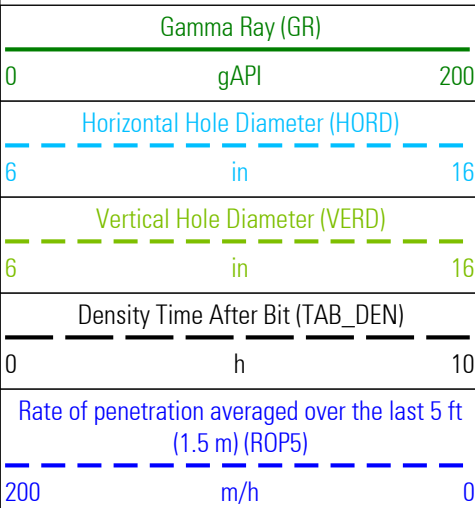
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|--|--------------------------------|----------------|---|-----------|---------|----------|------|------------------|--------------------------------|------------------------|------------------|---------------|------------------------|---|
| 29 | 1858.33 | 0.33 | 65.19 | 90.39 | 1858.29 | 0.78 | 0.78 | 7.73 | 7.77 | 84.27 | 0.06 | TeleScope | 0 | 0 |
| 30 | 1913.35 | 0.48 | 64.16 | 55.02 | 1913.31 | 0.94 | 0.94 | 8.08 | 8.13 | 83.35 | 0.08 | TeleScope | 0 | 0 |
| 31 | 1941.91 | 0.47 | 69.15 | 28.56 | 1941.87 | 1.03 | 1.03 | 8.29 | 8.36 | 82.89 | 0.04 | TeleScope | 0 | 0 |
| 32 | 2028.47 | 0.60 | 92.17 | 86.56 | 2028.43 | 1.14 | 1.14 | 9.08 | 9.15 | 82.83 | 0.09 | TeleScope | 0 | 0 |
| 33 | 2076.18 | 0.73 | 87.08 | 47.71 | 2076.13 | 1.15 | 1.15 | 9.63 | 9.70 | 83.20 | 0.09 | TeleScope | 0 | 0 |
| 34 | 2100.00 | 0.73 | 87.08 | 23.82 | 2099.95 | 1.16 | 1.16 | 9.93 | 10.00 | 83.32 | 0.00 | Manual | 9 | |
| Run 2 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Software Version | | | | | | | | | | | | | | |
| Acquisition System | | | | | | | | | Version | | | | | |
| MaxWell | | | | | | | | | 1.2.8706.0 | | | | | |
| Framework Patch | | | | | | | | | FWK-BGC-20090709-1.2.8706.1016 | | | | | |
| Application Patch | | | | | | | | | APL-BGC-DnM-1.2.8706.1021 | | | | | |
| Computation | | | Description | | | | | | | | | Version | | |
| ULTRASON_PROC | | | Ultrasonic Processing, ADN | | | | | | | | | 1.2.8706.0 | | |
| NEUTRON_PROC | | | Neutron Processing, ADN | | | | | | | | | 1.2.8706.0 | | |
| ARC8GammaRayComput ation | | | ARC8 Gamma Ray Computation Package for both Real-time and Recorded Mode | | | | | | | | | 1.2.8706.1021 | | |
| DENSITY_PROC | | | Density Processing, ADN | | | | | | | | | 1.2.8706.0 | | |
| ARCResistivity | | | ARC Resistivity Computation Package for ARC Tool Family | | | | | | | | | 1.2.8706.1021 | | |
| Tool Elements | | | Description | | | | | Software Version | | | Firmware Version | | | |
| ARDC | | | ARC 8.25 Inch Tool Drilling Collar | | | | | 1.2.8706.1021 | | | V9.4B | | | |
| DRILLING_SURFACE | | | DRILLING_SURFACE | | | | | 1.2.8706.1016 | | | | | | |
| ADNP | | | Azimuth Neutron Detector Package | | | | | 1.2.8706.0 | | | V8.3A | | | |
| NDUS | | | Azimuth Uson Detector Package | | | | | 1.2.8706.0 | | | V8.3A | | | |
| ADDP | | | Azimuth Density Detector Package | | | | | 1.2.8706.0 | | | V8.3A | | | |
| Composite Summary | | | | | | | | | | | | | | |
| Run Name | | Pass Objective | | Direction | | Top | | Bottom | | Acquisition Start Date | | | Acquisition Start Time | |
| Run 2 | | Drilling | | Down | | 804.72 m | | 2100.35 m | | 11-Sep-2009 | | | 01:32:19 | |
| Run 2 | | Ream Up 1 | | Up | | 808.84 m | | 2091.26 m | | 13-Sep-2009 | | | 09:45:06 | |
| All depths are referenced to toolstring zero | | | | | | | | | | | | | | |
| LogComposite 2 5BE1C7A4-2DDD-4CEF-B2E5-B608FFE3E2A1 | | | | | | | | | | | | | | |
| Description: Format: Log (VISION Service RM) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 17-Sep-2009 10:13:37 | | | | | | | | | | | | | | |
| DRHO | ADN[1]:ADN[1]:ADN[1] 6in - RM | | | | | | | | | | | | | |
| GR | ARC[1]:ARC[1]:ARDC[1] 6in - RM | | | | | | | | | | | | | |
| HORD | ADN[1]:ADN[1]:ADN[1] 6in - RM | | | | | | | | | | | | | |
| P16H | ARC[1]:ARC[1]:ARDC[1] 6in - RM | | | | | | | | | | | | | |
| P22H | ARC[1]:ARC[1]:ARDC[1] 6in - RM | | | | | | | | | | | | | |
| P28H | ARC[1]:ARC[1]:ARDC[1] 6in - RM | | | | | | | | | | | | | |
| P34H | ARC[1]:ARC[1]:ARDC[1] 6in - RM | | | | | | | | | | | | | |
| P40H | ARC[1]:ARC[1]:ARDC[1] 6in - RM | | | | | | | | | | | | | |
| PEF | ADN[1]:ADN[1]:ADN[1] 6in - RM | | | | | | | | | | | | | |
| RHOB | ADN[1]:ADN[1]:ADN[1] 6in - RM | | | | | | | | | | | | | |
| ROP5 | DRILLING_SURFACE 6in - RT | | | | | | | | | | | | | |
| RPM | ADN[1]:ADN[1] 6in - RM | | | | | | | | | | | | | |
| TAB_DEN | ADN[1]:ADN[1]:ADN[1] 6in | | | | | | | | | | | | | |
| TNPH | ADN[1]:ADN[1]:ADN[1] 6in - RM | | | | | | | | | | | | | |
| VERD | ADN[1]:ADN[1]:ADN[1] 6in - RM | | | | | | | | | | | | | |

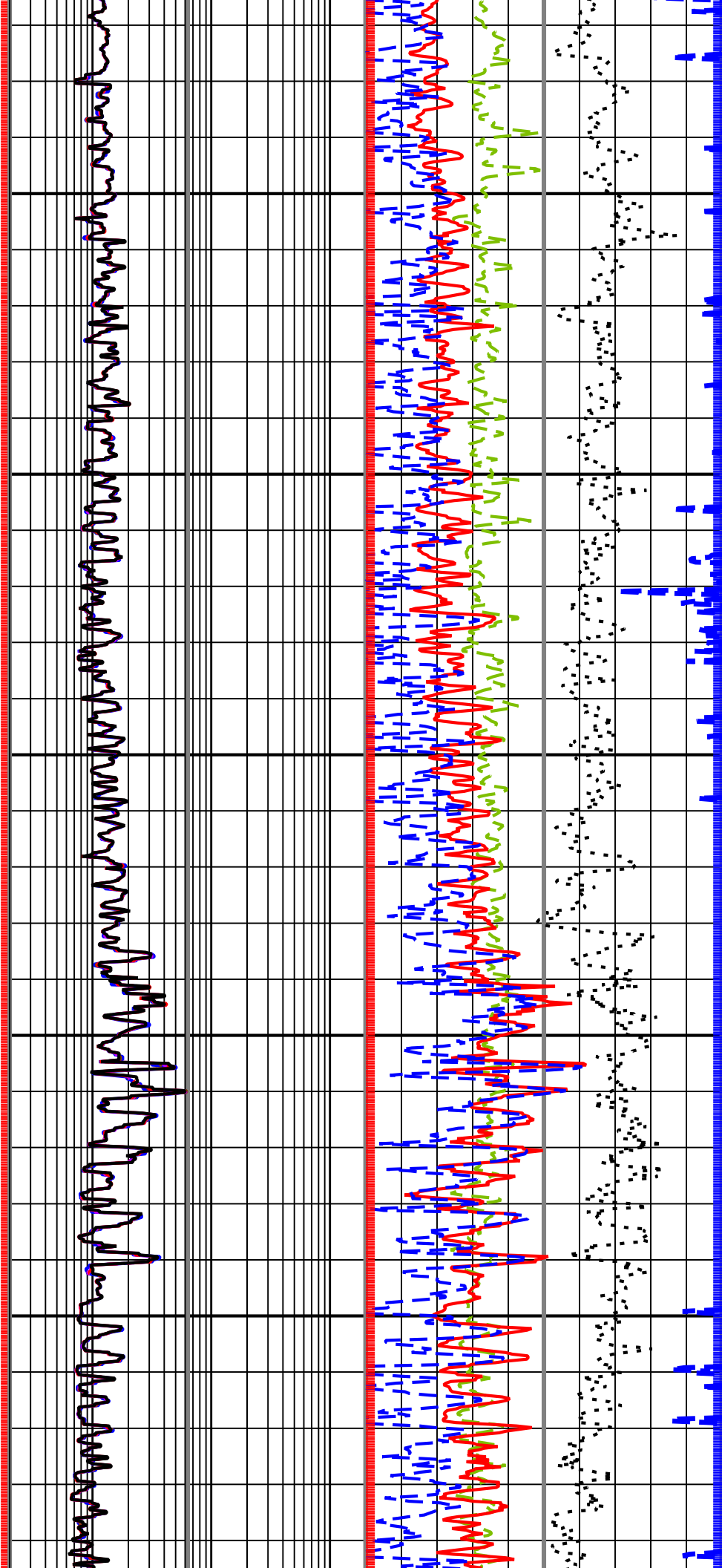
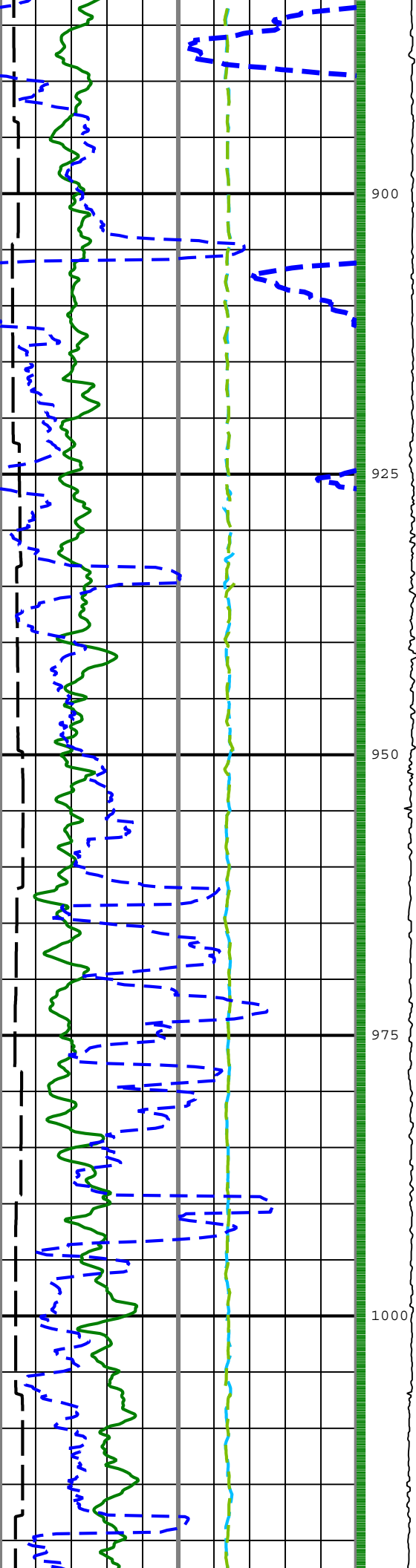
GR - Gamma Ray

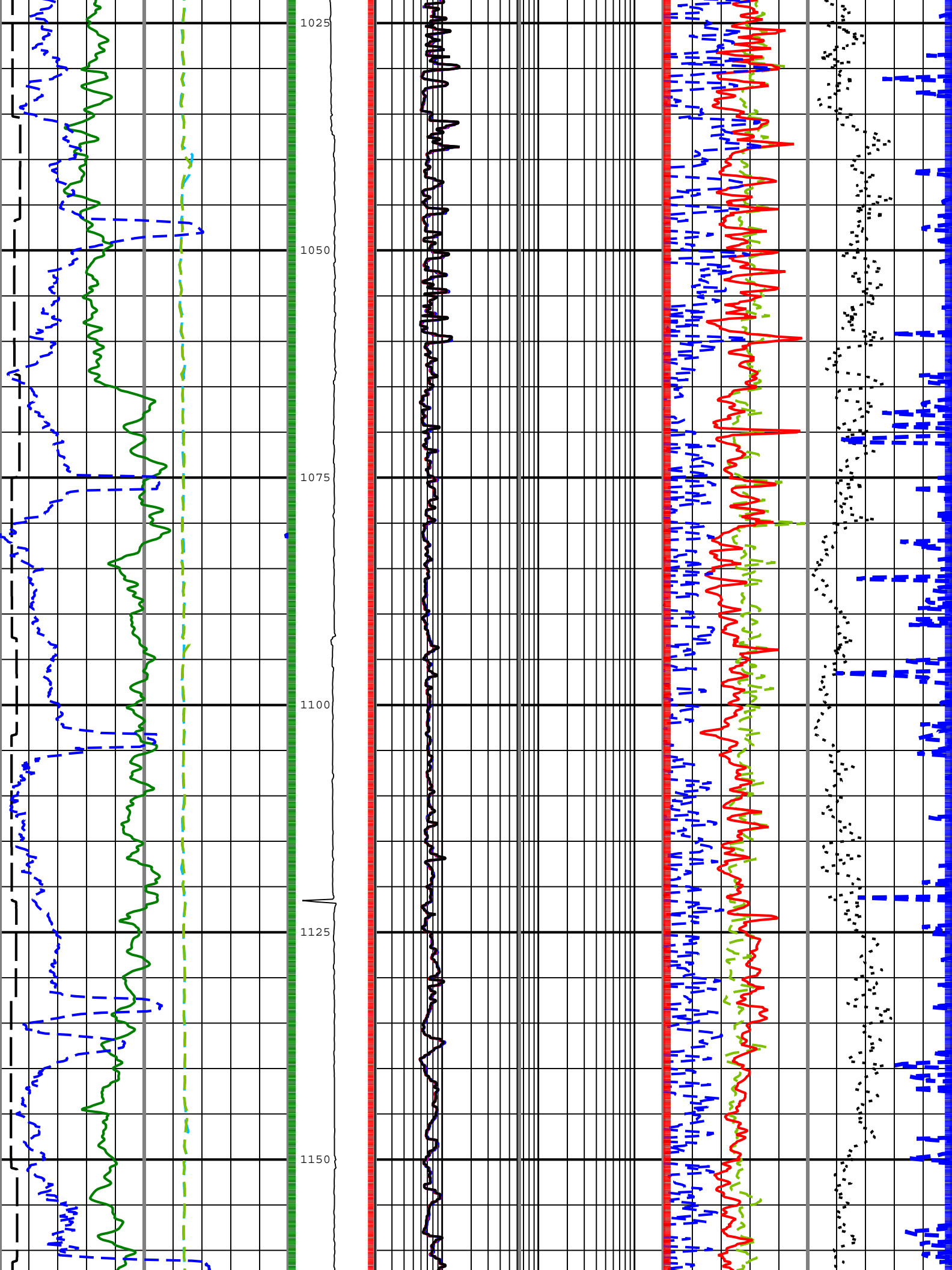
RHOB - Bulk Density

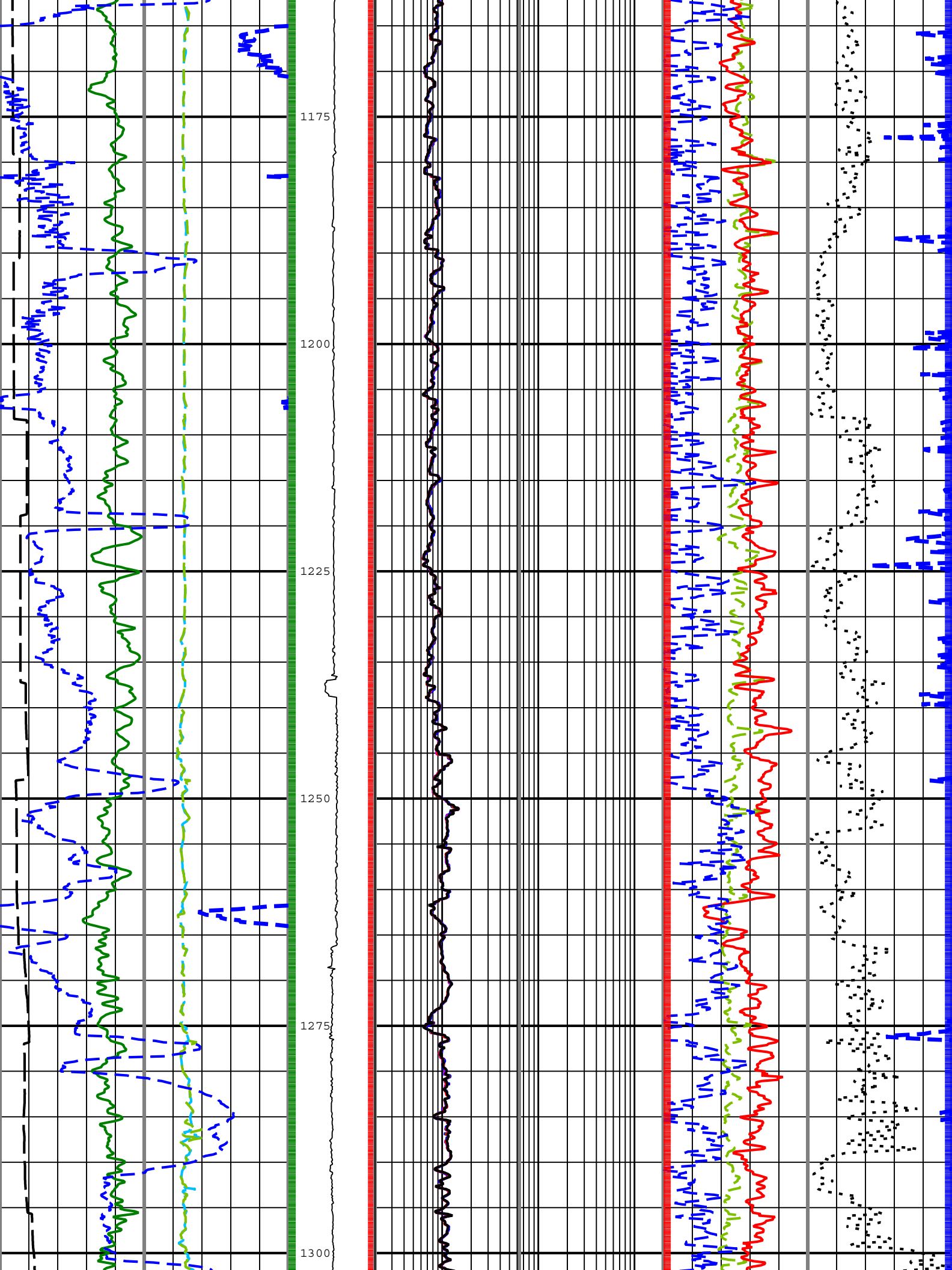
P34H - Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected.

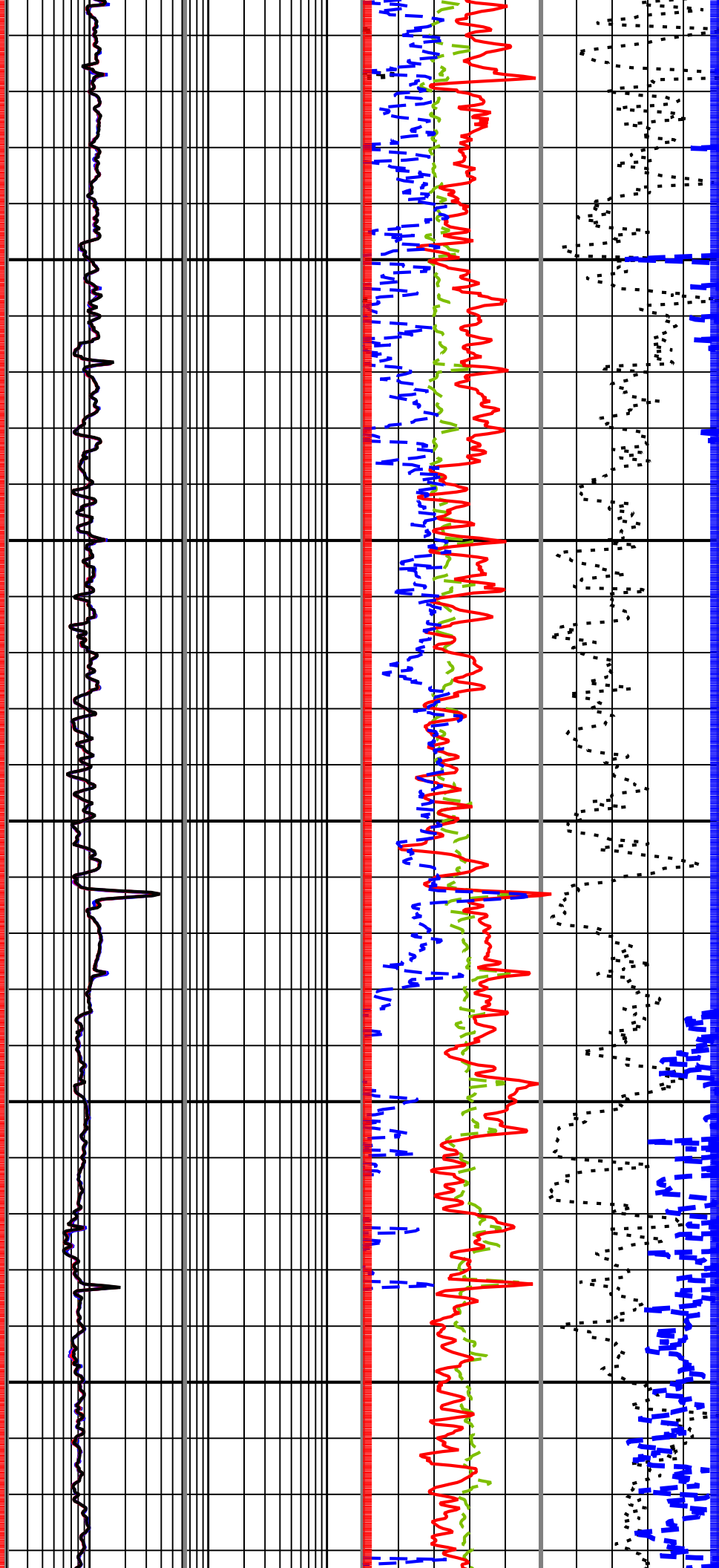
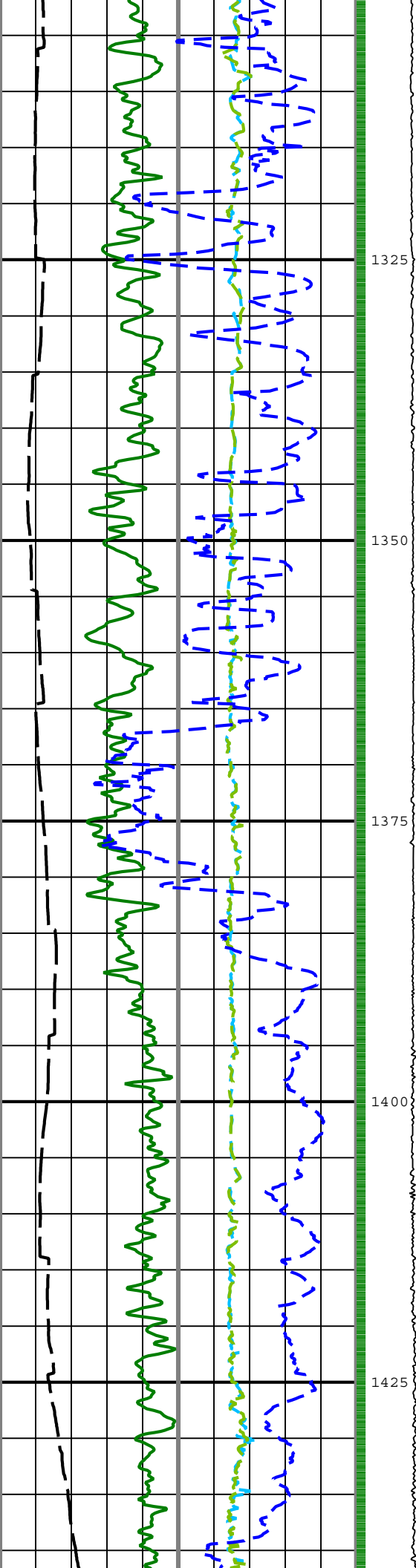
TNPH - Thermal Neutron Porosity (Ratio Method) in Selected Lithology

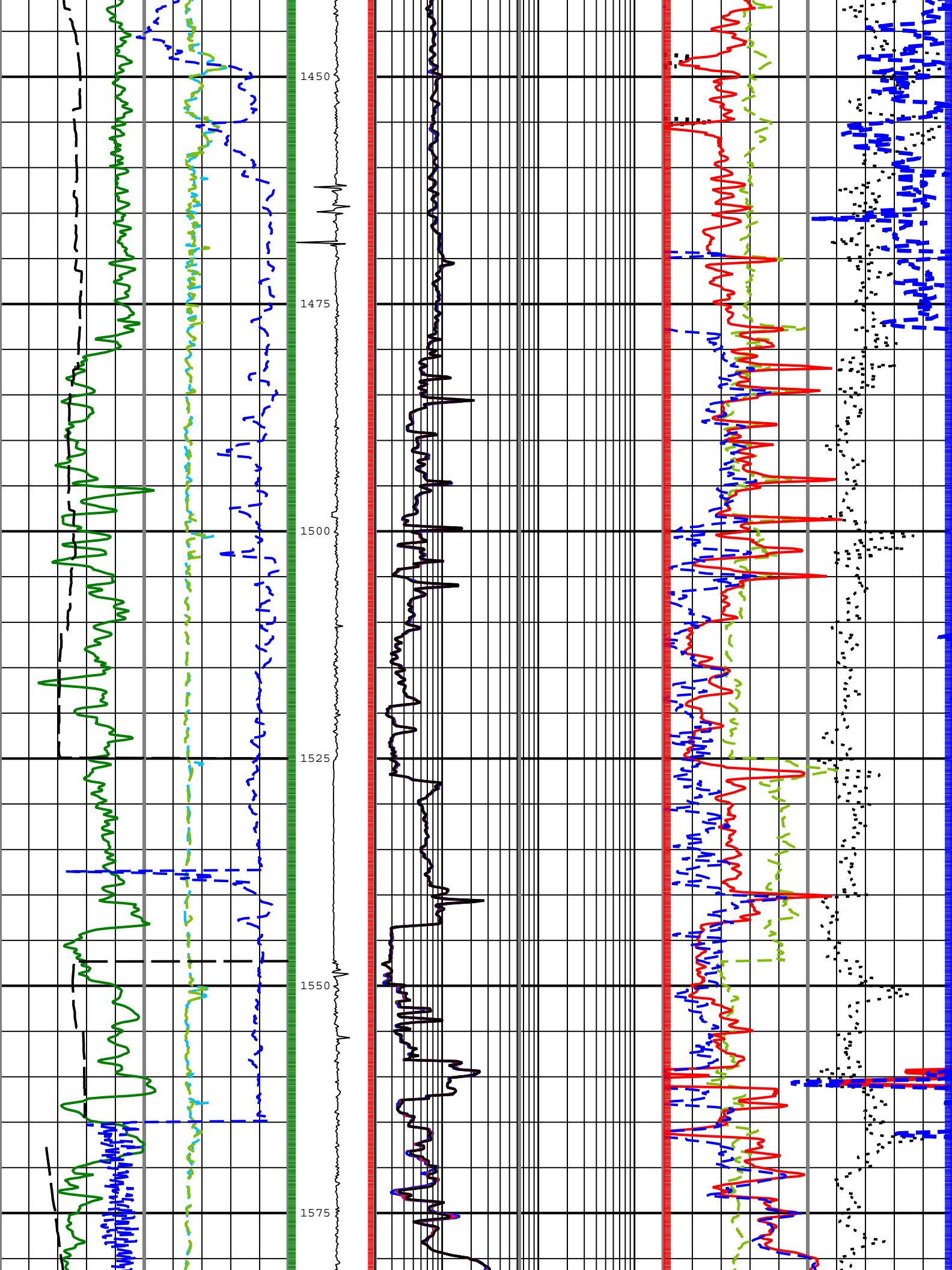


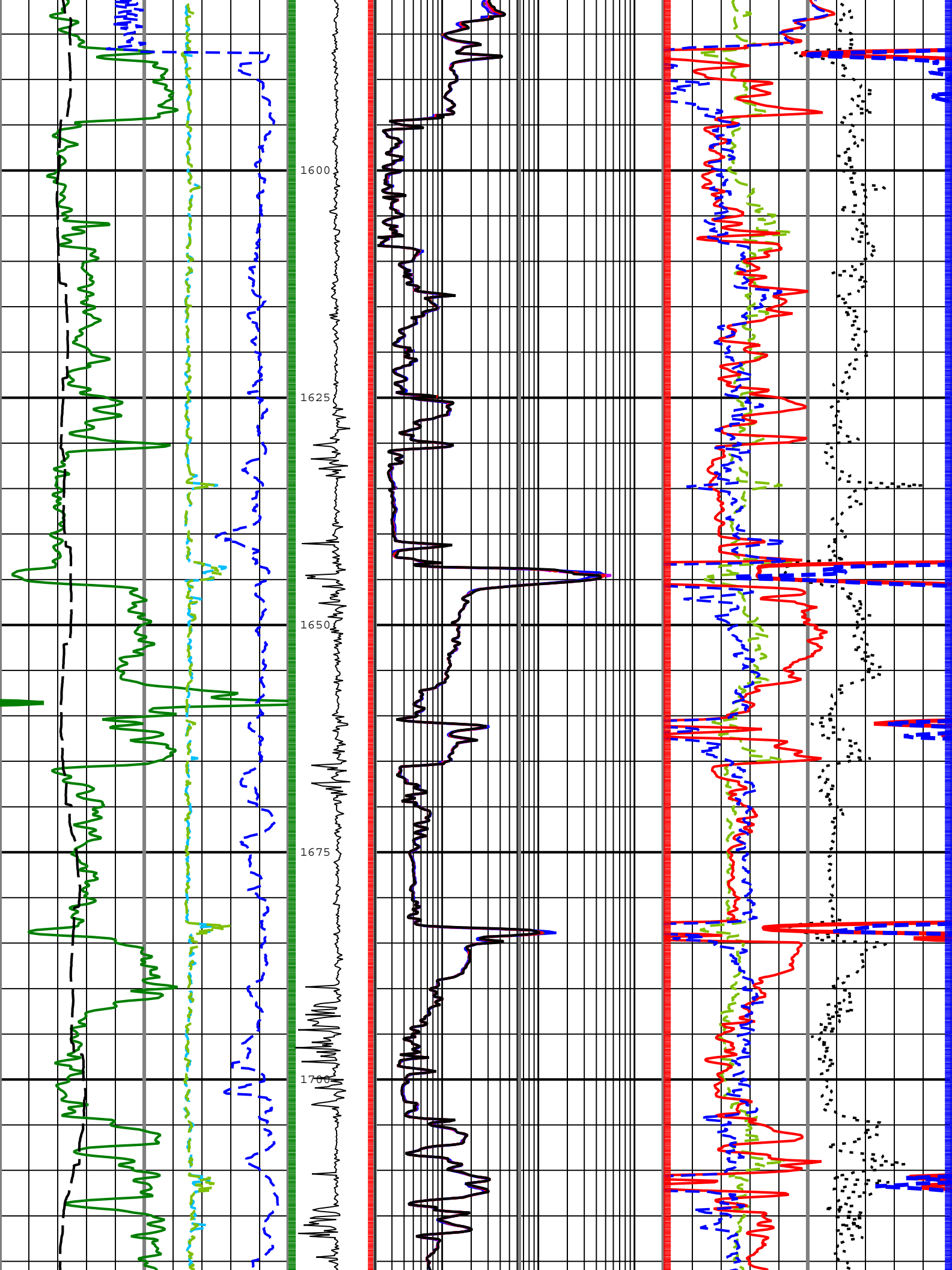


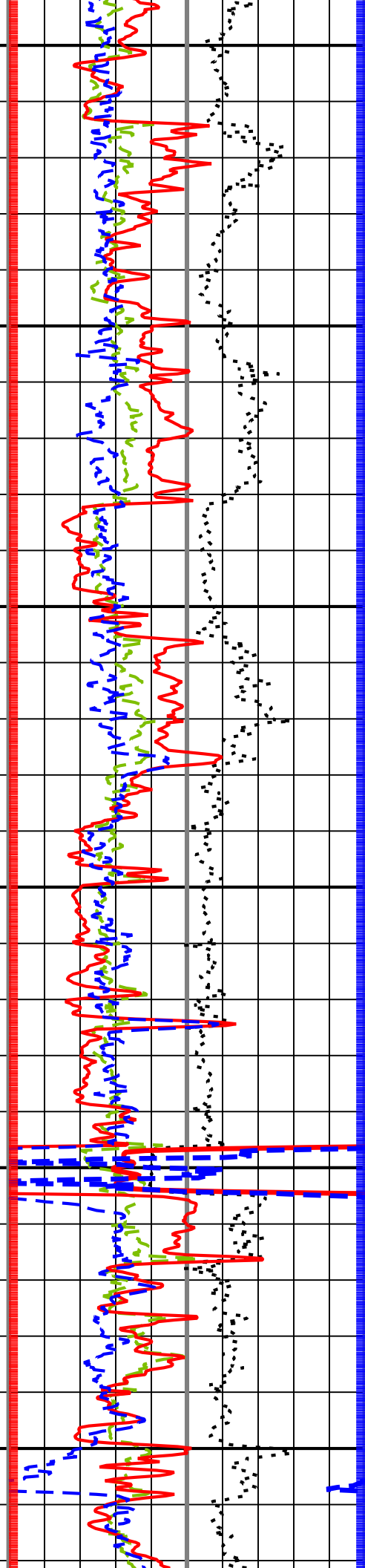
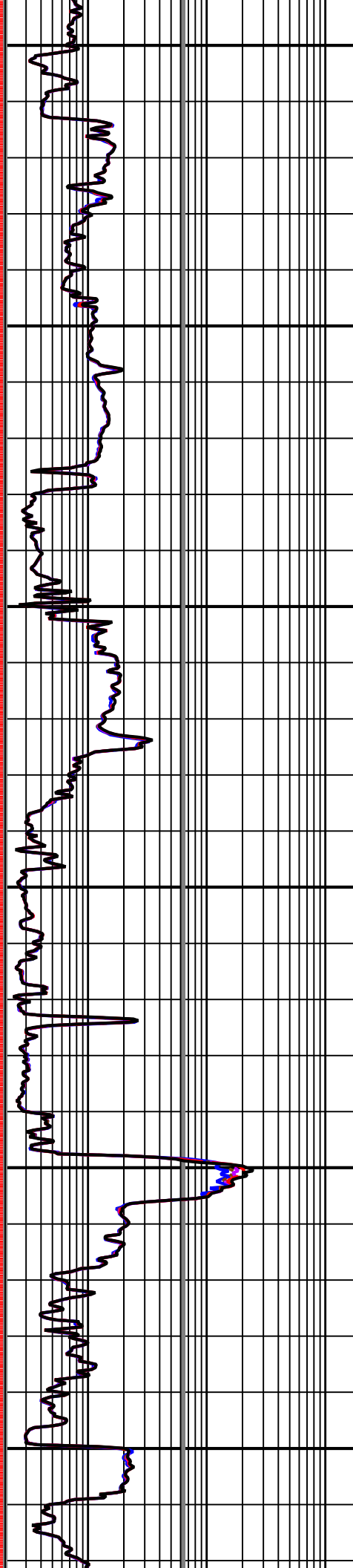
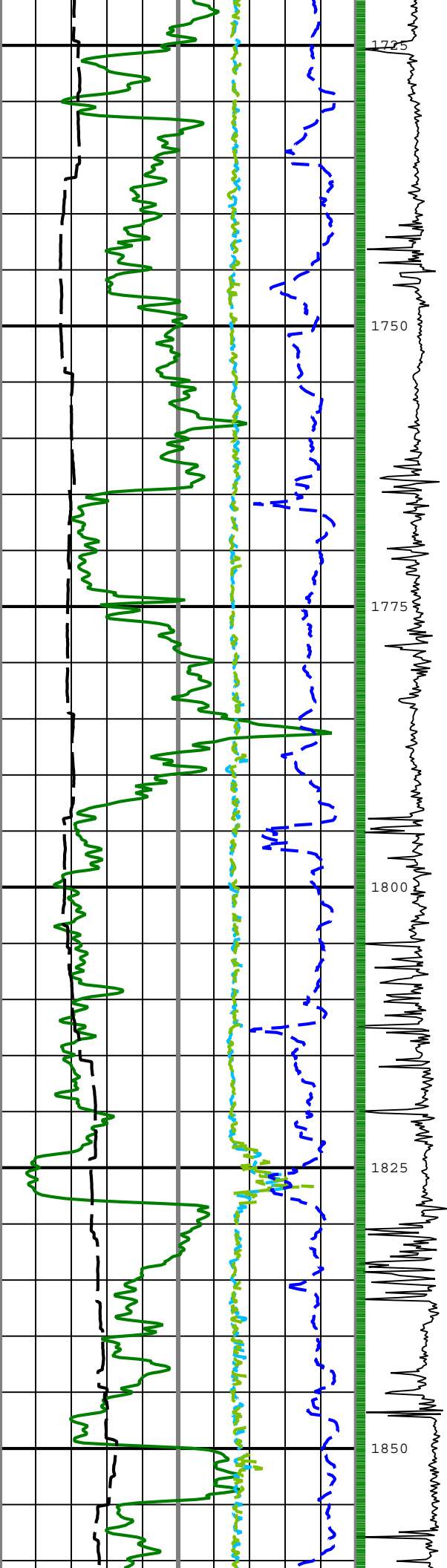


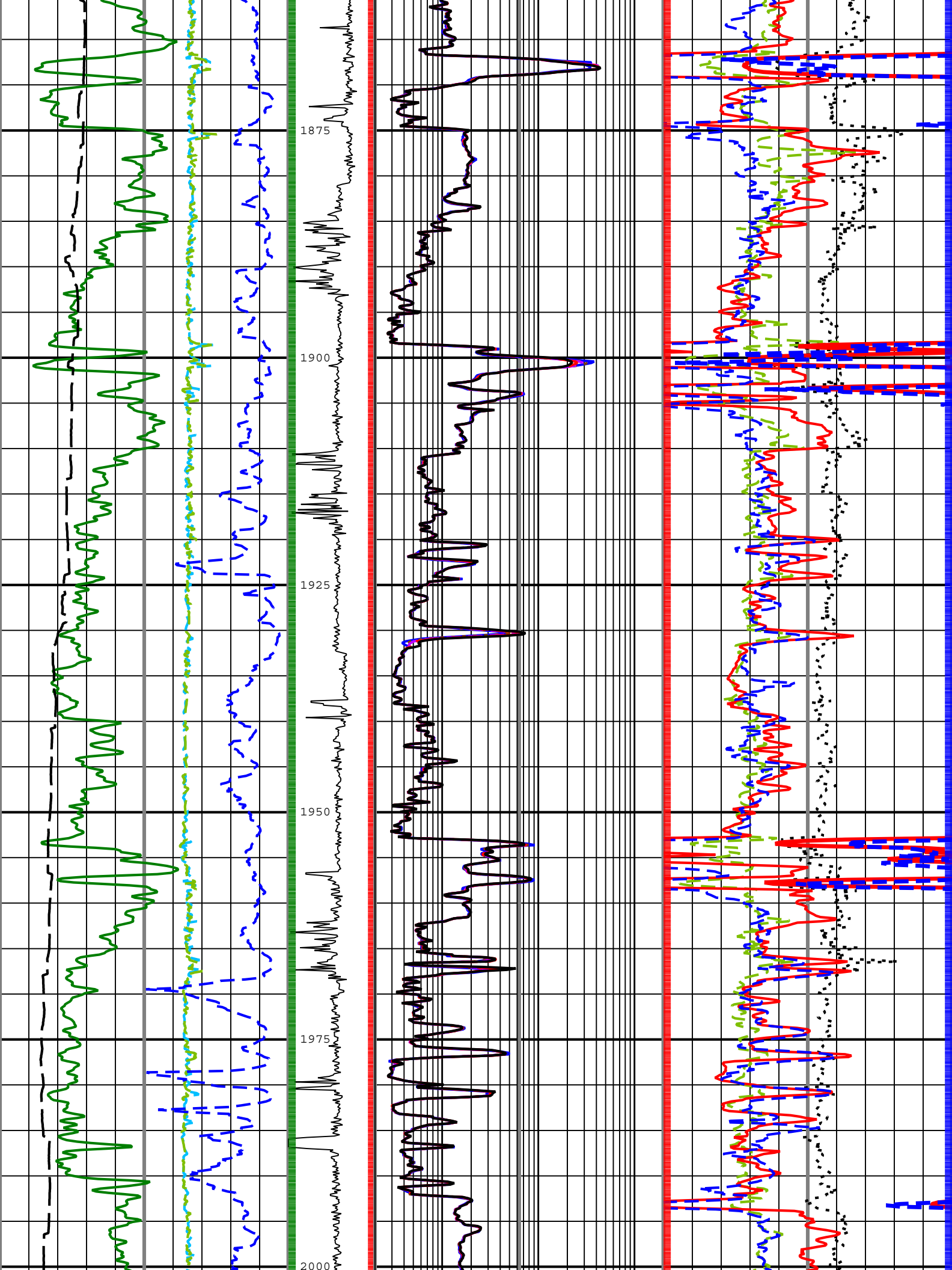


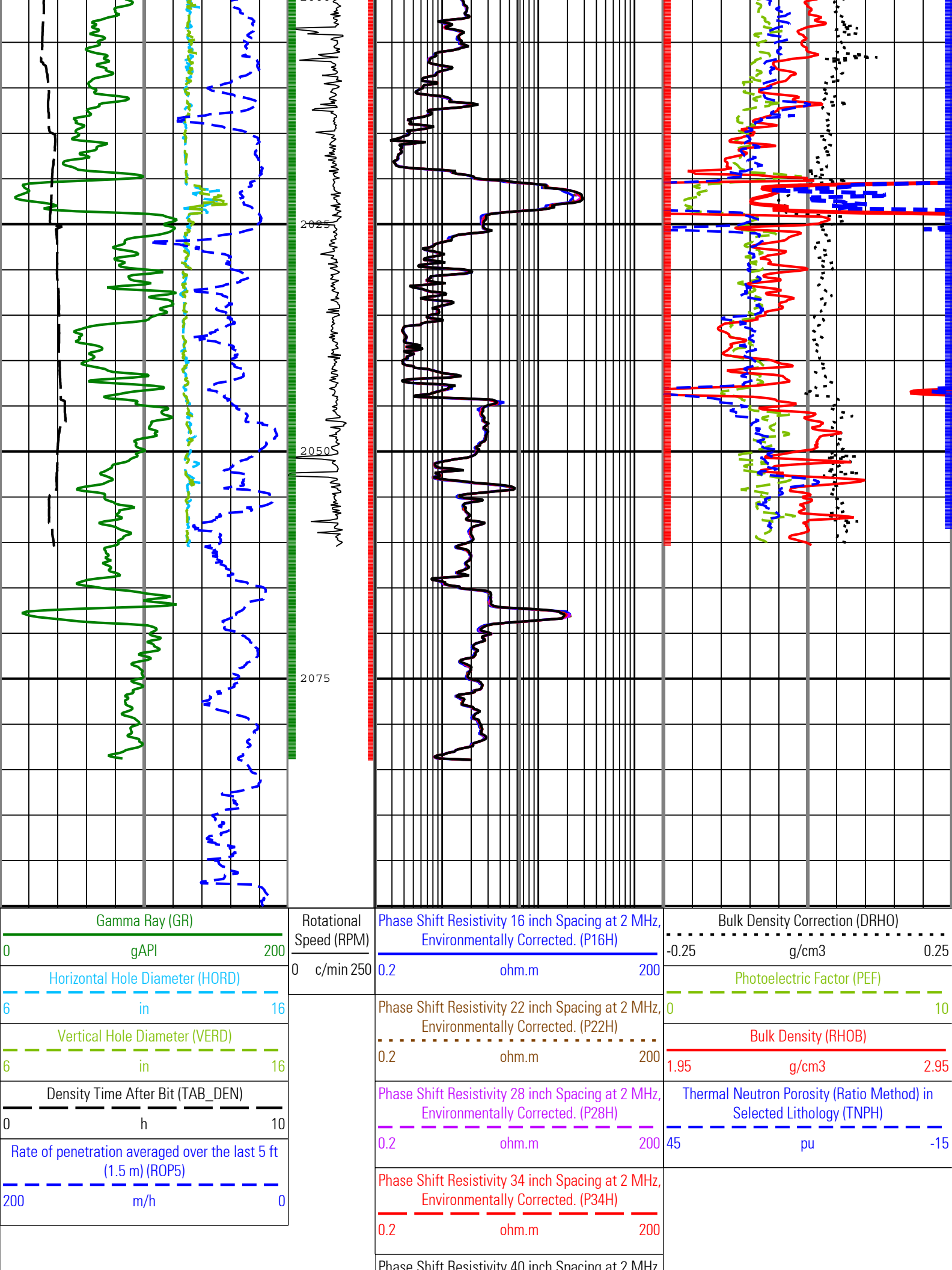












| | | |
|--|-------|-----|
| Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) | | |
| 0.2 | ohm.m | 200 |

TNPH - Thermal Neutron Porosity (Ratio Method) in Selected Lithology

P34H - Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected.

GR - Gamma Ray

RHOB - Bulk Density

Description: Format: Log (VISION Service RM) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 17-Sep-2009 10:13:37

Channel Processing Parameters

Run 2: Parameters

| Parameter | Description | ToolPath | Value | Unit |
|--------------|--|----------------|-----------------------|---------|
| BHK | Drilling Fluid Potassium Concentration | Borehole | Time Zoned | % |
| BHT | Bottom Hole Temperature | Borehole | 68 | degC |
| BS | Bit Size | COMPLETION | Depth Zoned | in |
| BSAL | Borehole Salinity | Borehole | Time Zoned | ppm |
| DFD | Drilling Fluid Density | Borehole | Time Zoned | lbm/gal |
| DFT | Drilling Fluid Type | Borehole | Water | |
| DTMD | Borehole Fluid Slowness | Borehole | 220 | us/ft |
| GGRD | Geothermal Gradient | Borehole | 18.23 | degC/km |
| GRSE | Generalized Mud Resistivity Selection | Borehole | Computed (GEN-9) | |
| GTSE | Generalized Temperature Selection | Borehole | Gradient From Surface | |
| MATR | Rock Matrix for Neutron Porosity Corrections | Borehole | LIMESTONE | |
| MST | Mud Sample Temperature | Borehole | Time Zoned | degC |
| RMS | Resistivity of Mud Sample | Borehole | Time Zoned | ohm.m |
| SHT | Surface Hole Temperature | Borehole | 15 | degC |
| TD | Total Measured Depth | Borehole | 2100.35 | m |
| TEMP_SEL_ARC | ARC Temperature Selection | ARC8:ARC8:ARDC | Annular | |

Run 2 : Depth Zoned Parameters

| Parameter | Value | Start (m) | Stop (m) |
|-----------|-------|-------------|------------|
| BS | 17.5 | 803 | 816.61 |
| BS | 12.25 | 816.61 | 2100.22 |

All depth are actual.

Run 2 : Time Zoned Parameters

Pass Drilling

| Parameter | Value | Start Time | Stop Time | Start Depth (m) | Stop Depth (m) |
|-----------|-----------|----------------------|----------------------|-------------------|------------------|
| BHK | 5.77 | 11-Sep-2009 01:32:19 | 11-Sep-2009 11:30:28 | 816.56 | 1000.33 |
| BHK | 4.98 | 11-Sep-2009 11:30:28 | 12-Sep-2009 02:00:00 | 1000.33 | 1545.64 |
| BHK | 4.72 | 12-Sep-2009 02:00:00 | 13-Sep-2009 15:53:56 | 1545.64 | 2100.35 |
| BSAL | 117818.22 | 11-Sep-2009 01:32:19 | 11-Sep-2009 11:30:28 | 816.56 | 1000.33 |
| BSAL | 102066.07 | 11-Sep-2009 11:30:28 | 12-Sep-2009 02:00:00 | 1000.33 | 1545.64 |
| BSAL | 98242.83 | 12-Sep-2009 02:00:00 | 13-Sep-2009 15:53:56 | 1545.64 | 2100.35 |
| DFD | 9 | 11-Sep-2009 01:32:19 | 11-Sep-2009 11:30:28 | 816.56 | 1000.33 |
| DFD | 9.1 | 11-Sep-2009 11:30:28 | 12-Sep-2009 02:00:00 | 1000.33 | 1545.64 |
| DFD | 9.5 | 12-Sep-2009 02:00:00 | 13-Sep-2009 15:53:56 | 1545.64 | 2100.35 |
| MST | 17.9 | 11-Sep-2009 01:32:19 | 11-Sep-2009 19:28:28 | 816.56 | 1428.19 |
| MST | 20.9 | 11-Sep-2009 19:28:28 | 12-Sep-2009 19:30:04 | 1428.19 | 1851.41 |

| | | | | | |
|-----|------|----------------------|----------------------|---------|---------|
| MST | 22.4 | 12-Sep-2009 19:30:04 | 13-Sep-2009 15:53:56 | 1851.41 | 2100.35 |
| RMS | 0.07 | 11-Sep-2009 01:32:19 | 11-Sep-2009 19:28:28 | 816.56 | 1428.19 |
| RMS | 0.08 | 11-Sep-2009 19:28:28 | 12-Sep-2009 19:30:04 | 1428.19 | 1851.41 |
| RMS | 0.07 | 12-Sep-2009 19:30:04 | 13-Sep-2009 15:53:56 | 1851.41 | 2100.35 |

| | | | | | |
|-----------------------------|----------|----------------------|----------------------|------|------|
| Pass Ream Up 1 | | | | | |
| BHK | 4.72 | 13-Sep-2009 13:03:17 | 13-Sep-2009 15:53:56 | 1587 | 1565 |
| BSAL | 98242.83 | 13-Sep-2009 13:03:17 | 13-Sep-2009 15:53:56 | 1587 | 1565 |
| DFD | 9.5 | 13-Sep-2009 13:03:17 | 13-Sep-2009 15:53:56 | 1587 | 1565 |
| MST | 22.4 | 13-Sep-2009 13:03:17 | 13-Sep-2009 15:53:56 | 1587 | 1565 |
| RMS | 0.07 | 13-Sep-2009 13:03:17 | 13-Sep-2009 15:53:56 | 1587 | 1565 |
| All depth are at tool zero. | | | | | |

| | |
|-------------------------|--|
| Tool Control Parameters | |
|-------------------------|--|

| | | | | |
|-------------------|--|-------------|-------|------|
| Run 2: Parameters | | | | |
| Parameter | Description | ToolPath | Value | Unit |
| OFFBTM_TH | Threshold for deciding whether the bit is off bottom | DnMWorkflow | 0.4 | m |

| | |
|-----------------------------|--|
| Detailed Calibration Record | |
|-----------------------------|--|

| |
|---------------------------------------|
| Run 2: ARC8 : Calibration Resistivity |
|---------------------------------------|

| | | | |
|------------------------|-------------|--------------|---------------|
| Primary Set Components | Description | Tool Element | Serial Number |
| | DC with AIM | ARDC | 1216 |

| | | | |
|-----------------------------|---------------------------------|--|--|
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 04-Sep-2009 10:51:30 AM - 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 | 8.079 | dB |
| ATT2F2AIR Attenuation T2 at 2 MHz | 4.500 / 6.500 / 8.500 | 6.594 | dB |
| ATT3F2AIR Attenuation T3 at 2 MHz | 2.500 / 4.500 / 6.500 | 4.786 | dB |
| ATT4F2AIR Attenuation T4 at 2 MHz | 2.600 / 4.600 / 6.600 | 4.546 | dB |
| ATT5F2AIR Attenuation T5 at 2 MHz | 1.600 / 3.600 / 5.600 | 3.373 | dB |
| PST1F2AIR Phase Shift T1 at 2 MHz | -3.900 / 0.100 / 4.100 | -0.298 | deg |
| PST2F2AIR Phase Shift T2 at 2 MHz | -3.900 / 0.100 / 4.100 | 0.371 | deg |
| PST3F2AIR Phase Shift T3 at 2 MHz | -3.900 / 0.100 / 4.100 | -0.408 | deg |
| PST4F2AIR Phase Shift T4 at 2 MHz | -3.900 / 0.100 / 4.100 | 0.352 | deg |
| PST5F2AIR Phase Shift T5 at 2 MHz | -3.900 / 0.100 / 4.100 | -0.404 | deg |
| ATT1F4AIR Attenuation T1 at 400 KHz | 6.500 / 8.500 / 10.500 | 8.139 | dB |
| ATT2F4AIR Attenuation T2 at 400 KHz | 4.500 / 6.500 / 8.500 | 6.536 | dB |
| ATT3F4AIR Attenuation T3 at 400 KHz | 2.500 / 4.500 / 6.500 | 4.844 | dB |
| ATT4F4AIR Attenuation T4 at 400 KHz | 2.600 / 4.600 / 6.600 | 4.490 | dB |
| ATT5F4AIR Attenuation T5 at 400 KHz | 1.600 / 3.600 / 5.600 | 3.445 | dB |
| PST1F4AIR Phase Shift T1 at 400 KHz | -3.900 / 0.100 / 4.100 | 0.107 | deg |
| PST2F4AIR Phase Shift T2 at 400 KHz | -3.900 / 0.100 / 4.100 | -0.147 | deg |

| | | | |
|--|------------------------|--------|-----|
| PST3F4AIR Phase Shift T3 at 400 KHz | -3.900 / 0.100 / 4.100 | 0.125 | deg |
| PST4F4AIR Phase Shift T4 at 400 KHz | -3.900 / 0.100 / 4.100 | -0.186 | deg |
| PST5F4AIR Phase Shift T5 at 400 KHz | -3.900 / 0.100 / 4.100 | 0.094 | deg |

Run 2: ARC8 : Calibration Gamma Ray

| Primary Set Components | Description | Tool Element | Serial Number |
|---------------------------------------|---------------------------------|--------------|---------------|
| | DC with AIM | ARDC | 1216 |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 03-Sep-2009 04:16:18 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 | 1.049 | |

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density LS Window 3 Calibration

| Primary Set Components | Description | Tool Element | Serial Number |
|--|---------------------------------|--------------|---------------|
| | Chassis | ADSE | |
| | Density Blade | ADBD | |
| | Retrievable Neutron Gamma Src | RNGS | |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | |
| Calibration Source | Time Frame File | | |
| Calibration Type: Density: LS Window 3 | | | |
| Description | Min/Nominal/Max | Shop | Unit |
| LSW3_BG LS window 3 - Background | 17.0 / 90.0 / 170.0 | 64.5 | 1/s |
| LSW3_AL LS window 3 - Al | 10.0 / 110.0 / 200.0 | 144.7 | 1/s |
| LSW3_MG LS window 3 - Mg | 40.0 / 700.0 / 1400.0 | 913.1 | 1/s |
| RHOL_H2O Long spacing water density | 1.047 / 1.062 / 1.077 | 1.063 | g/cm3 |

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density SS Window 1 Calibration

| Primary Set Components | Description | Tool Element | Serial Number |
|--|---------------------------------|--------------|---------------|
| | Chassis | ADSE | |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | |
| Calibration Source | Time Frame File | | |
| Calibration Type: Density: SS Window 1 | | | |
| Description | Min/Nominal/Max | Shop | Unit |
| SSW1_BG SS window 1 - Background | 20.0 / 120.0 / 200.0 | 114.9 | 1/s |
| SSW1_AL SS window 1 - Al | 200.0 / 1650.0 / 3000.0 | 2072.0 | 1/s |
| SSW1_MG SS window 1 - Mg | 300.0 / 3620.0 / 7000.0 | 4388.8 | 1/s |

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density SS Window 3 Calibration

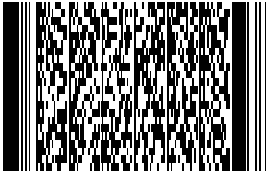
| Primary Set Components | Description | Tool Element | Serial Number |
|--|---------------------------------|--------------|---------------|
| | Chassis | ADSE | |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | |
| Calibration Source | Time Frame File | | |
| Calibration Type: Density: SS Window 3 | | | |

| | | | | |
|--|---------------------------------|--------------|---------------|-------|
| Description | Min/Nominal/Max | Shop | | Unit |
| SSW3_BG SS window 3 - Background | 50.0 / 260.0 / 500.0 | 254.2 | | 1/s |
| SSW3_AL SS window 3 - Al | 200.0 / 1930.0 / 4000.0 | 2484.4 | | 1/s |
| SSW3_MG SS window 3 - Mg | 300.0 / 2880.0 / 5000.0 | 3796.2 | | 1/s |
| RHOS_H2O Short spacing water density | 1.336 / 1.393 / 1.450 | 1.387 | | g/cm3 |
| Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 1 Calibration | | | | |
| Primary Set Components | Description | Tool Element | Serial Number | |
| | Chassis | ADSE | | |
| | Neutron Blade | NDBN | | |
| Calibration Dates | Shop Calibration | | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | | |
| Calibration Source | Time Frame File | | | |
| Calibration Type: Neutron: Far tube 1 | | | | |
| Description | Min/Nominal/Max | Shop | | Unit |
| FAZ1_AIR Far tube 1 - Air | 100.000 / 152.100 / 190.000 | 142.838 | | 1/s |
| FAZ1_ROD Far tube 1 - Rod | 35.000 / 55.328 / 69.000 | 51.169 | | 1/s |
| FAZ1_H2O Far tube 1 - Water | 13.000 / 20.136 / 25.000 | 18.396 | | 1/s |
| Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 2 Calibration | | | | |
| Primary Set Components | Description | Tool Element | Serial Number | |
| | Chassis | ADSE | | |
| Calibration Dates | Shop Calibration | | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | | |
| Calibration Source | Time Frame File | | | |
| Calibration Type: Neutron: Far tube 2 | | | | |
| Description | Min/Nominal/Max | Shop | | Unit |
| FAZ2_AIR Far tube 2 - Air | 100.000 / 152.100 / 190.000 | 149.790 | | 1/s |
| FAZ2_ROD Far tube 2 - Rod | 35.000 / 55.328 / 69.000 | 55.739 | | 1/s |
| FAZ2_H2O Far tube 2 - Water | 13.000 / 20.136 / 25.000 | 19.280 | | 1/s |
| Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 3 Calibration | | | | |
| Primary Set Components | Description | Tool Element | Serial Number | |
| | Chassis | ADSE | | |
| Calibration Dates | Shop Calibration | | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | | |
| Calibration Source | Time Frame File | | | |
| Calibration Type: Neutron: Far tube 3 | | | | |
| Description | Min/Nominal/Max | Shop | | Unit |
| FAZ3_AIR Far tube 3 - Air | 100.000 / 152.100 / 190.000 | 145.958 | | 1/s |
| FAZ3_ROD Far tube 3 - Rod | 35.000 / 55.328 / 69.000 | 54.980 | | 1/s |
| FAZ3_H2O Far tube 3 - Water | 13.000 / 20.136 / 25.000 | 19.033 | | 1/s |
| NEUT_PORO_H2O_FAR Far Neutron Water Porosity | 0.60000 / 1.00000 / 1.20000 | 1.18013 | | m3/m3 |
| Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 1 Calibration | | | | |
| Primary Set Components | Description | Tool Element | Serial Number | |
| | Chassis | ADSE | | |
| Calibration Dates | Shop Calibration | | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | | |

| | | | |
|--|---------------------------------|----------|------|
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | |
| Calibration Source | Time Frame File | | |
| Calibration Type: Neutron: Near tube 1 | | | |
| Description | Min/Nominal/Max | Shop | Unit |
| NAZ1_AIR Near tube 1 - Air | 1100.000 / 1462.100 / 2000.000 | 1460.020 | 1/s |
| NAZ1_ROD Near tube 1 - Rod | 1200.000 / 1518.800 / 2000.000 | 1508.500 | 1/s |
| NAZ1_H2O Near tube 1 - Water | 640.000 / 801.530 / 1100.000 | 786.185 | 1/s |

| | | | |
|--|---------------------------------|--------------|---------------|
| Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 2 Calibration | | | |
| Primary Set Components | Description | Tool Element | Serial Number |
| | Chassis | ADSE | |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | |
| Calibration Source | Time Frame File | | |
| Calibration Type: Neutron: Near tube 2 | | | |
| Description | Min/Nominal/Max | Shop | Unit |
| NAZ2_AIR Near tube 2 - Air | 1100.000 / 1462.100 / 2000.000 | 1485.040 | 1/s |
| NAZ2_ROD Near tube 2 - Rod | 1200.000 / 1518.800 / 2000.000 | 1540.790 | 1/s |
| NAZ2_H2O Near tube 2 - Water | 640.000 / 801.530 / 1100.000 | 800.370 | 1/s |

| | | | |
|--|---------------------------------|--------------|---------------|
| Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 3 Calibration | | | |
| Primary Set Components | Description | Tool Element | Serial Number |
| | Chassis | ADSE | |
| Calibration Dates | Shop Calibration | | |
| Date & Time / Date Validity | 29-Aug-2009 12:14:05 AM - Valid | | |
| Calibration Source | Time Frame File | | |
| Calibration Type: Neutron: Near tube 3 | | | |
| Description | Min/Nominal/Max | Shop | Unit |
| NAZ3_AIR Near tube 3 - Air | 1100.000 / 1462.100 / 2000.000 | 1495.020 | 1/s |
| NAZ3_ROD Near tube 3 - Rod | 1200.000 / 1518.800 / 2000.000 | 1544.740 | 1/s |
| NAZ3_H2O Near tube 3 - Water | 640.000 / 801.530 / 1100.000 | 805.792 | 1/s |

| | | |
|----------|---------------------|---|
| Company: | Beach Petroleum Ltd |  |
| Well: | Spikey Beach-1 | |
| Field: | Exploration | |
| County: | n/a | |
| State: | Tasmania | |
| Country: | Australia | |

| | |
|---|----------------------|
|  | Beach Petroleum Ltd |
| | VISION Service |
| | 1:500 Measured Depth |