



**CENTRAL PETROLEUM  
WELL: CBM 93 - 003**



**Weatherford**

**HoleData:**

8.5", 10 m, 248.4 m  
6- 1/8", 248.4m, 544m  
3-3/4", 544m, 897m

**CasingData:**

10", 0 m, 15 m,  
7", 15 m, 245 m,  
4- 1/2", 245 m, 539.7 m,

**MudData:**

KCL Gel

**SURFACE LOGGING SYSTEMS**

**MUDLOG**

**Legend**

**Drilling Data:**  
BC bit condition  
BS bit size  
CB core bit  
CBR core bit re-run  
CR core  
CSG casing  
DC depth correction  
DIR directional survey  
DS deviation survey  
DST drill stem test  
LC lost circulation  
LCM lost circ material  
MM mud motor  
NB new bit  
PO pump output  
PP pump pressure  
RPM rotary speed  
RR re-run bit  
SPM pump strokes  
SPP stand pipe pressure  
TRQ torque  
TVD true vertical depth  
WLL wireline log  
WOB weight on bit

**Personnel:**

**Companyman :**  
Tim Brower  
Guy Holmes  
Steve Bailey  
Ian Twentyman  
**Geologist :**  
Michael Harrison  
Graham McClung  
**Mudlogging crew :**  
Eswadi Othman  
Muhd Mukhsin

**Operator:** Central Petroleum Ltd  
Well: CBM93-003  
Location: Simpson Desert  
Country: Australia  
UWID: CBM93 - 003  
Elevation GL: 153.00  
KB: 0.00  
Drilling Rig: Wallis Rig D 39  
Spud Date: January 09, 2010  
Print Date: March 16, 2010  
Scale: 1:200



Bit Trip



Dummy Trip



Mud Loss



Wireline Log



Casing



Directional Drill



Side Wall Core



Perforated Interval

**Lithology**



Siltstone 2



Sandstone



Siltstone



Shale



Limestone



Coal



Claystone

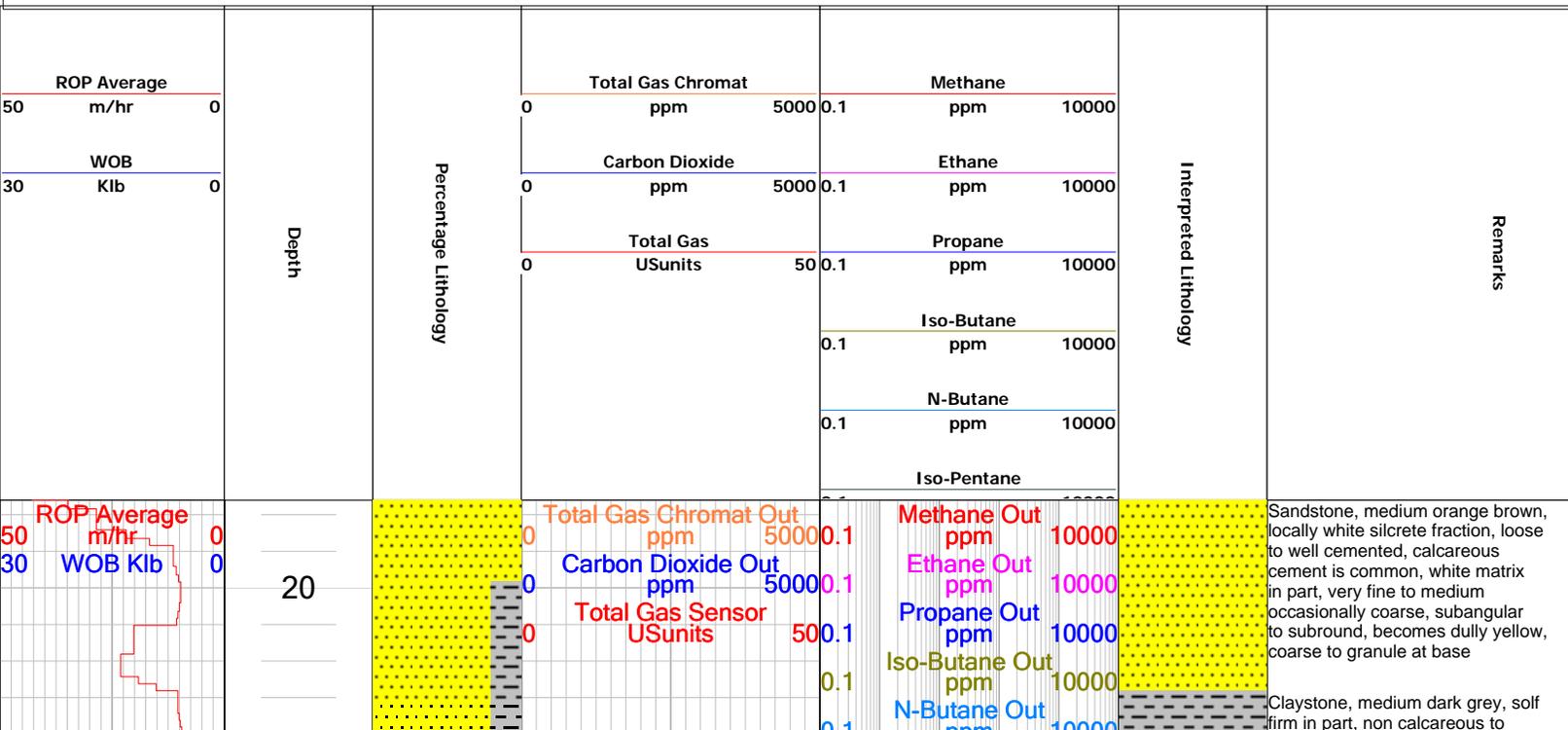


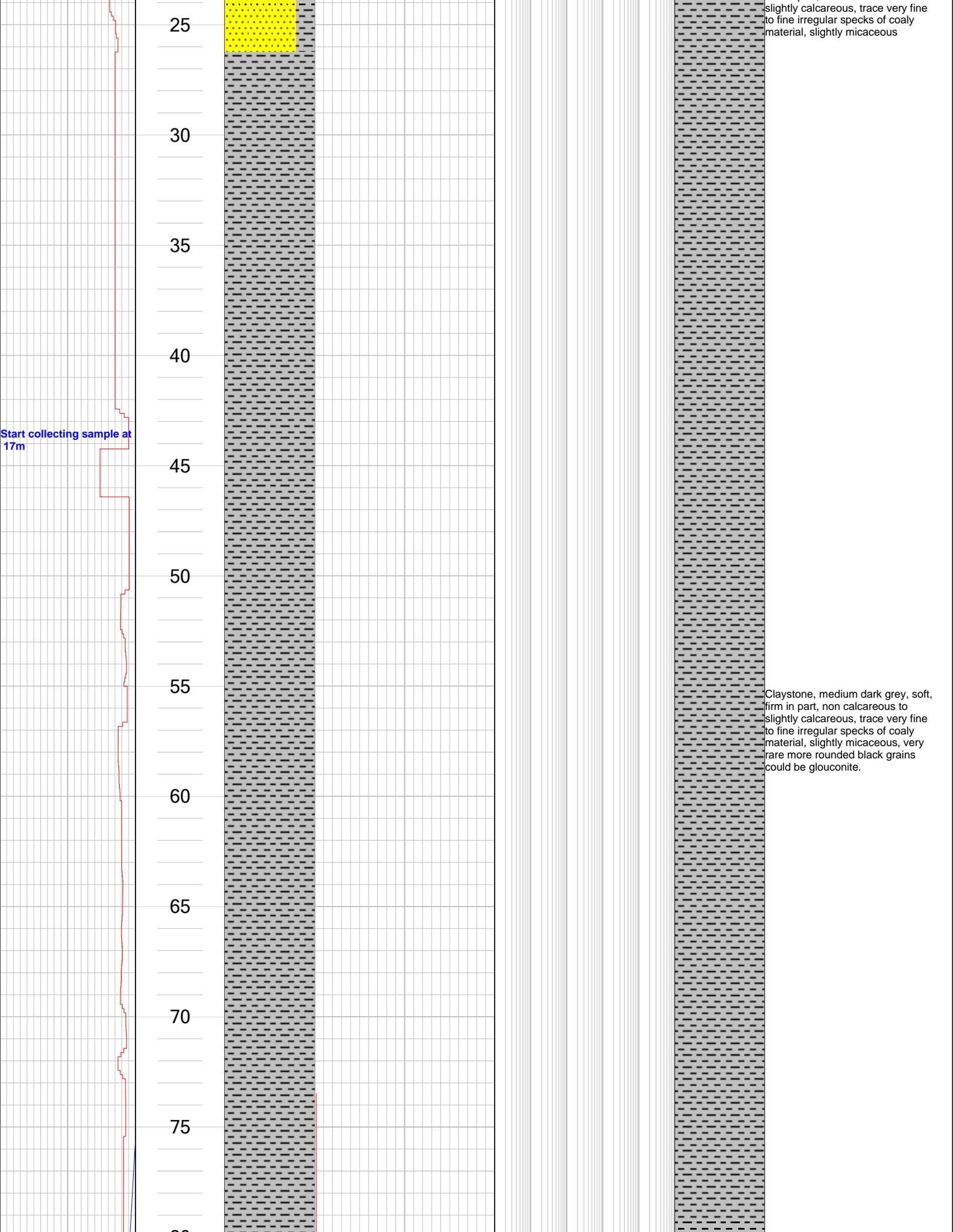
Mudstone



Calcareous Claystone

Company : Central Petroleum Ltd. Well : CBM 93 - 003 Location : Perdika Basin, Central Australia Spud : 4 February 2009 Scale : 1:200





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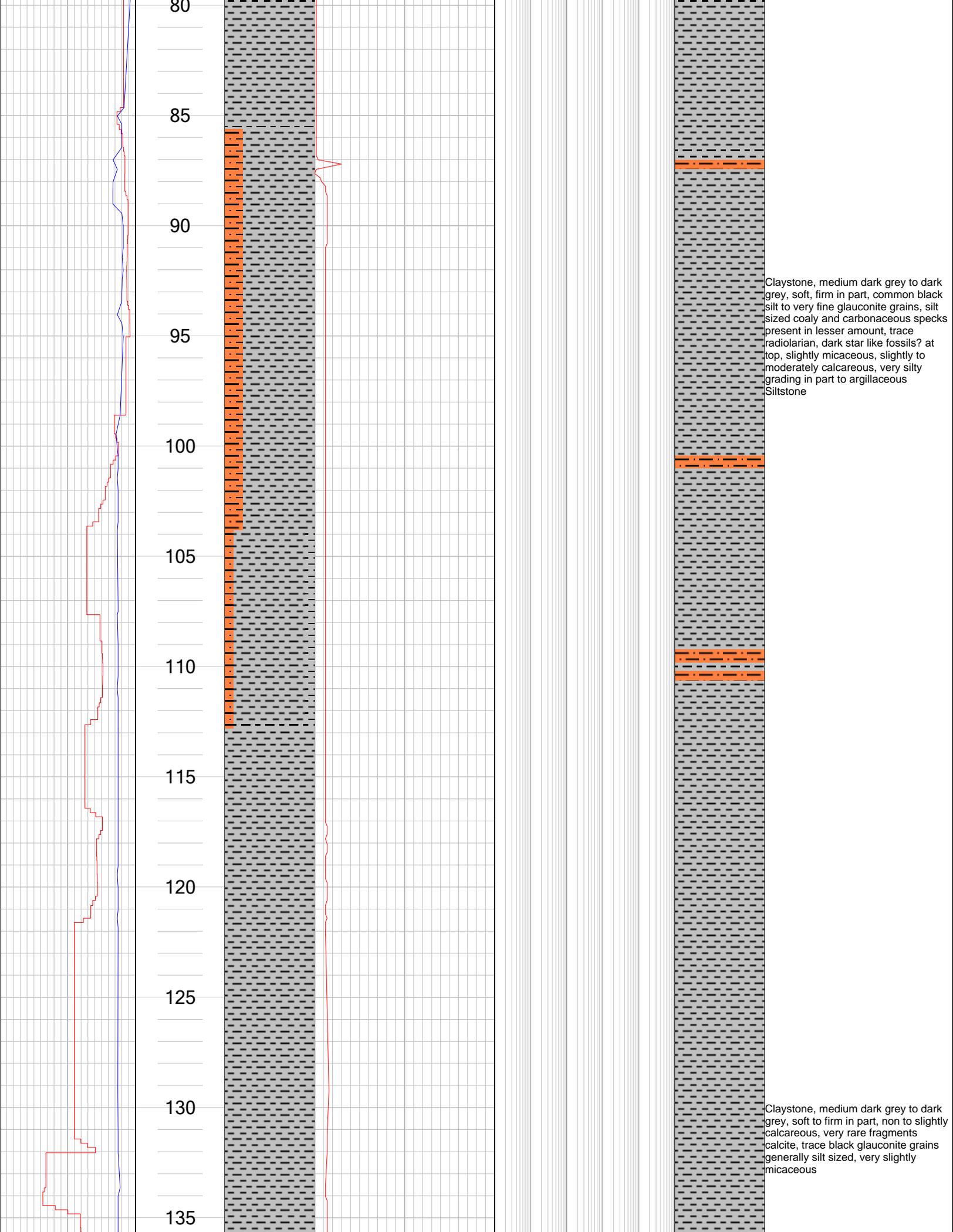
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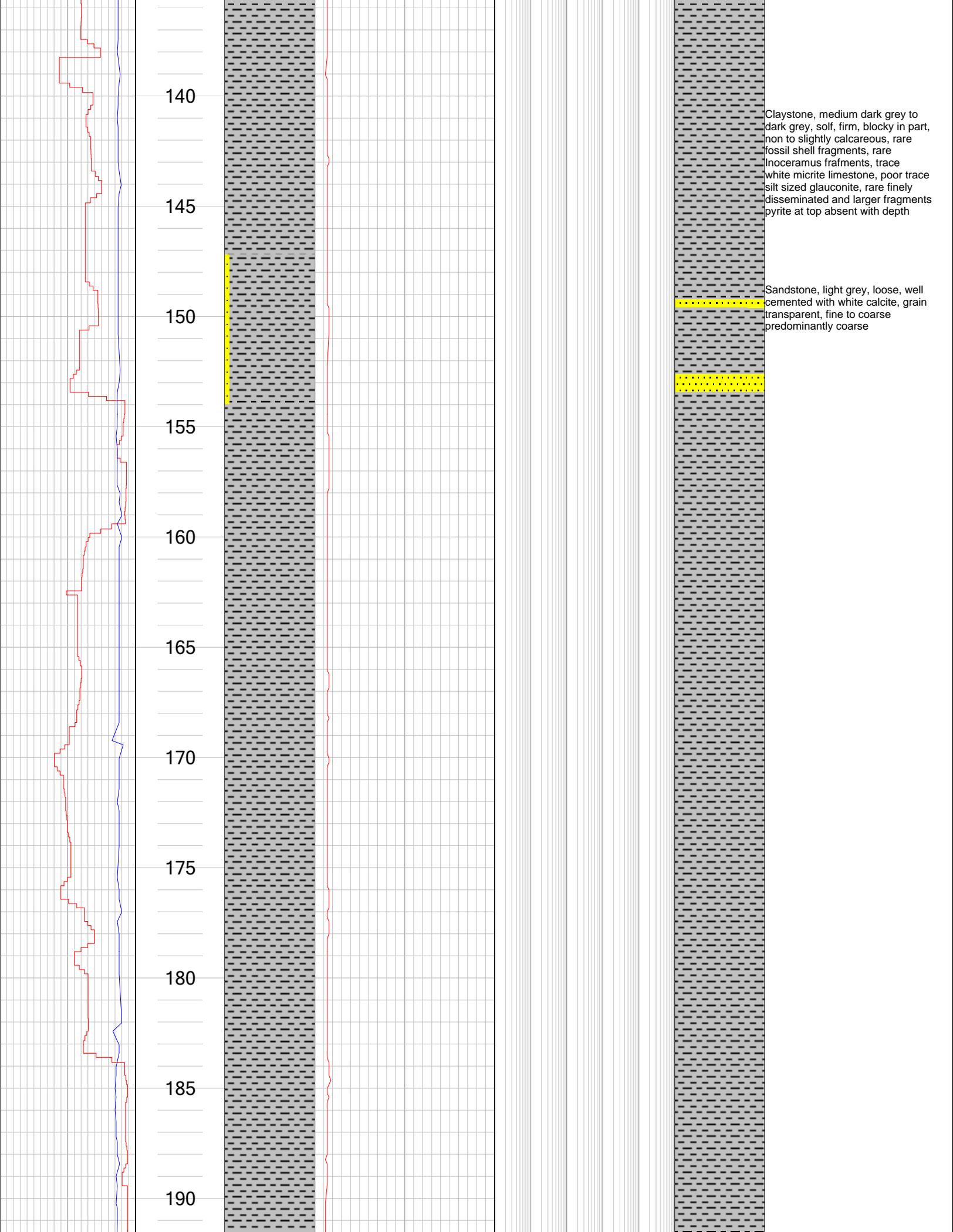
80

Start collecting sample at 17m

slightly calcareous, trace very fine to fine irregular specks of coaly material, slightly micaceous

Claystone, medium dark grey, soft, firm in part, non calcareous to slightly calcareous, trace very fine to fine irregular specks of coaly material, slightly micaceous, very rare more rounded black grains could be glauconite.





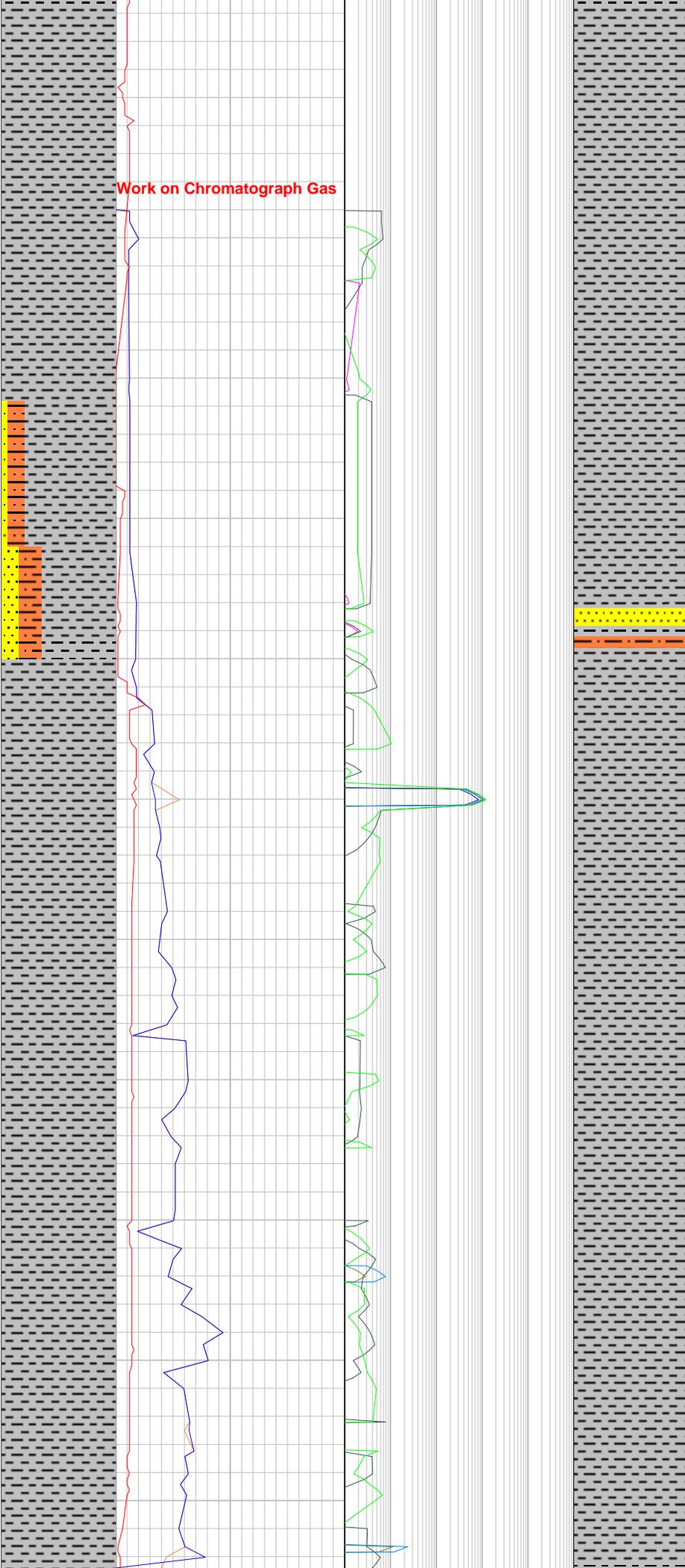
140  
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Claystone, medium dark grey to dark grey, soft, firm, blocky in part, non to slightly calcareous, rare fossil shell fragments, rare Inoceramus fragments, trace white micrite limestone, poor trace silt sized glauconite, rare finely disseminated and larger fragments pyrite at top absent with depth

Sandstone, light grey, loose, well cemented with white calcite, grain transparent, fine to coarse predominantly coarse

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Work on Chromatograph Gas



Claystone, medium dark grey to dark grey, soft to firm, non to slightly calcareous, poor trace very fine glauconite, silty grading in part to Siltstone with fine laminations of Sandstone, medium grey, friable, very fine grained, argillaceous matrix in part

**TD 8.5" hole section on  
12 Jan 2010 @ 0340hrs  
@ 248.5mMD**

Claystone, medium dark grey,  
soft, com v fine to f coaly specks  
and rare glauconite, silty grading  
in part to arg Siltstone in slightly  
calcareous, mod calc in part,  
rare disseminated pyrite from  
261m, slightly micaceous, trace  
very fine, dirty, tight Sandstone

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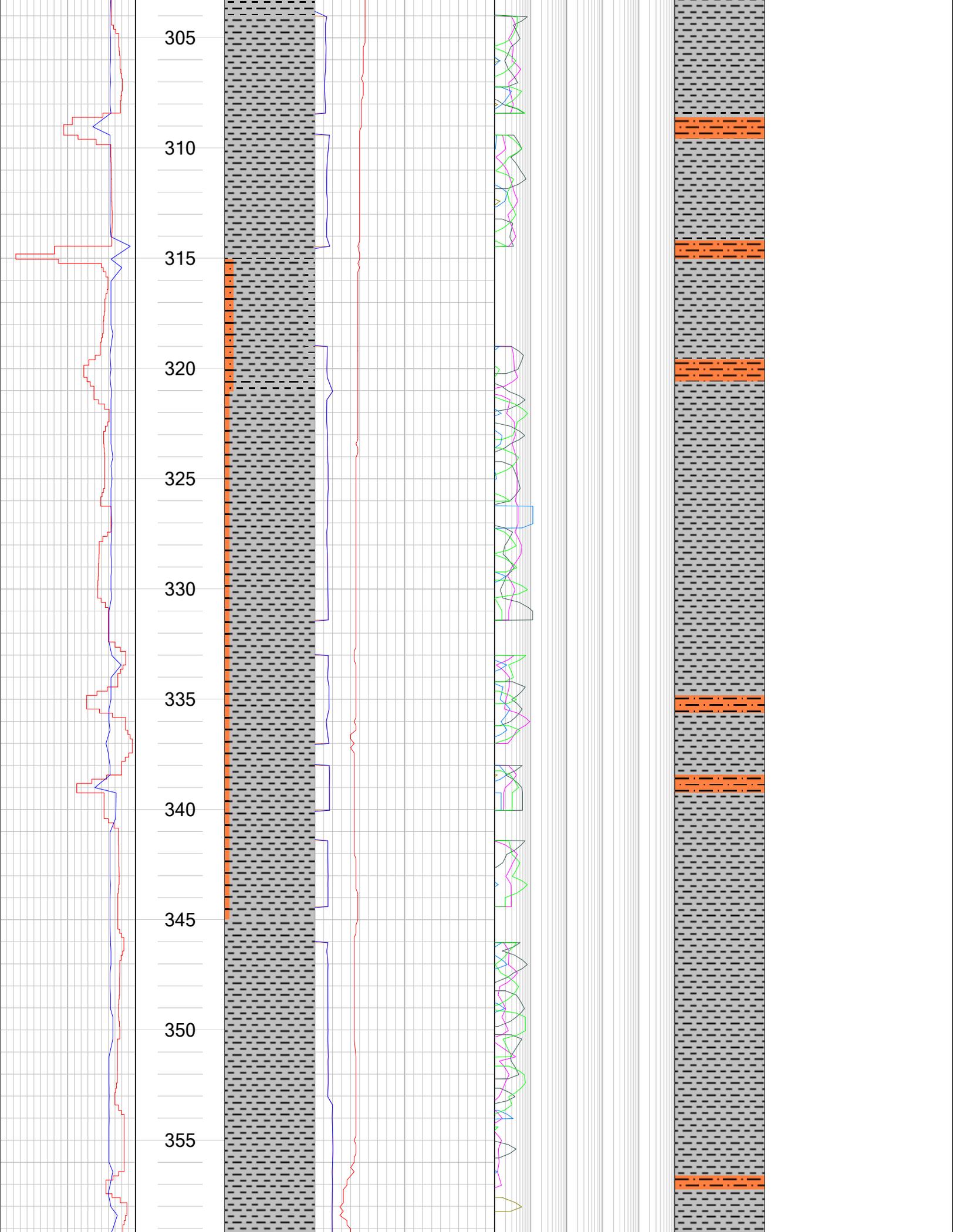
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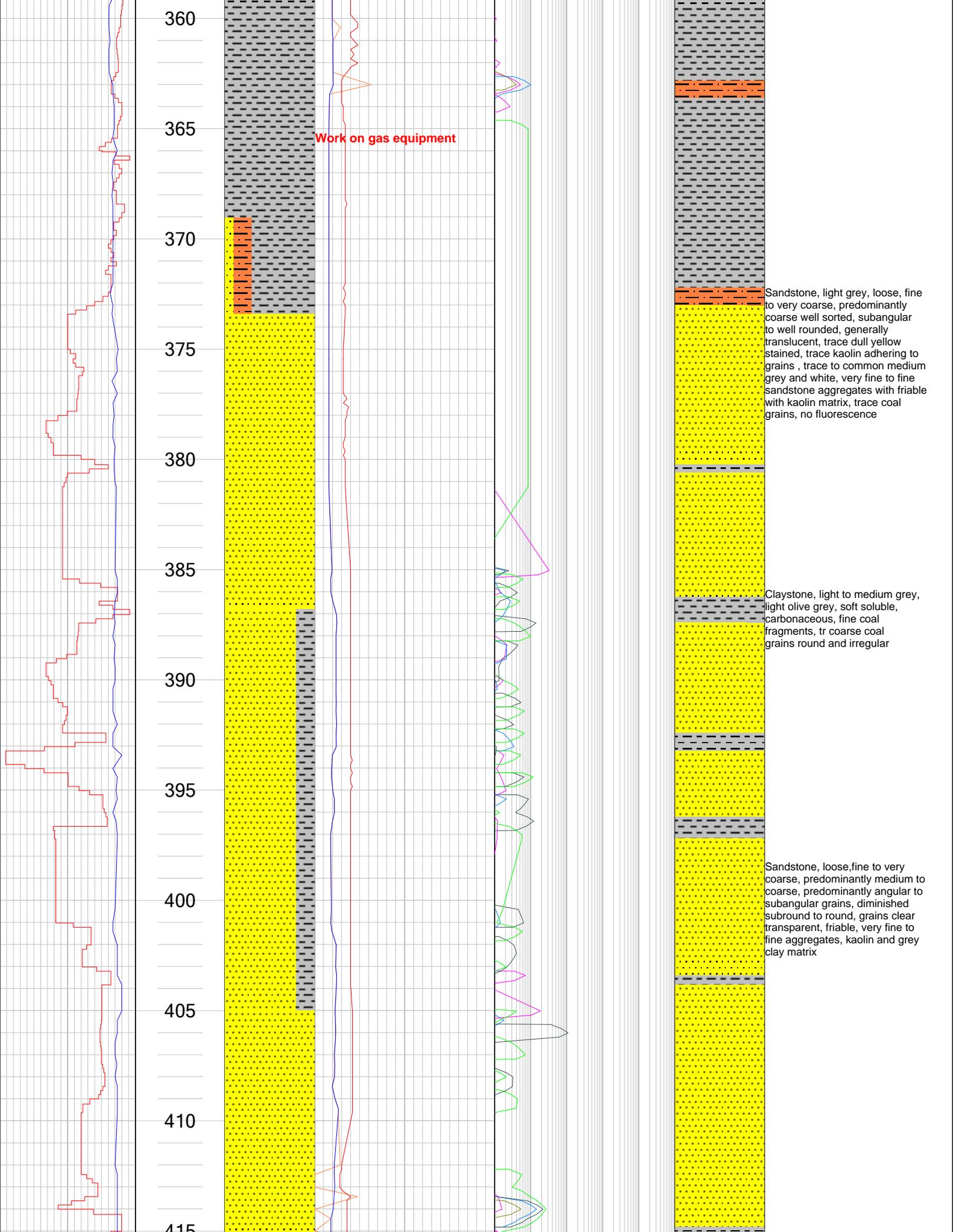
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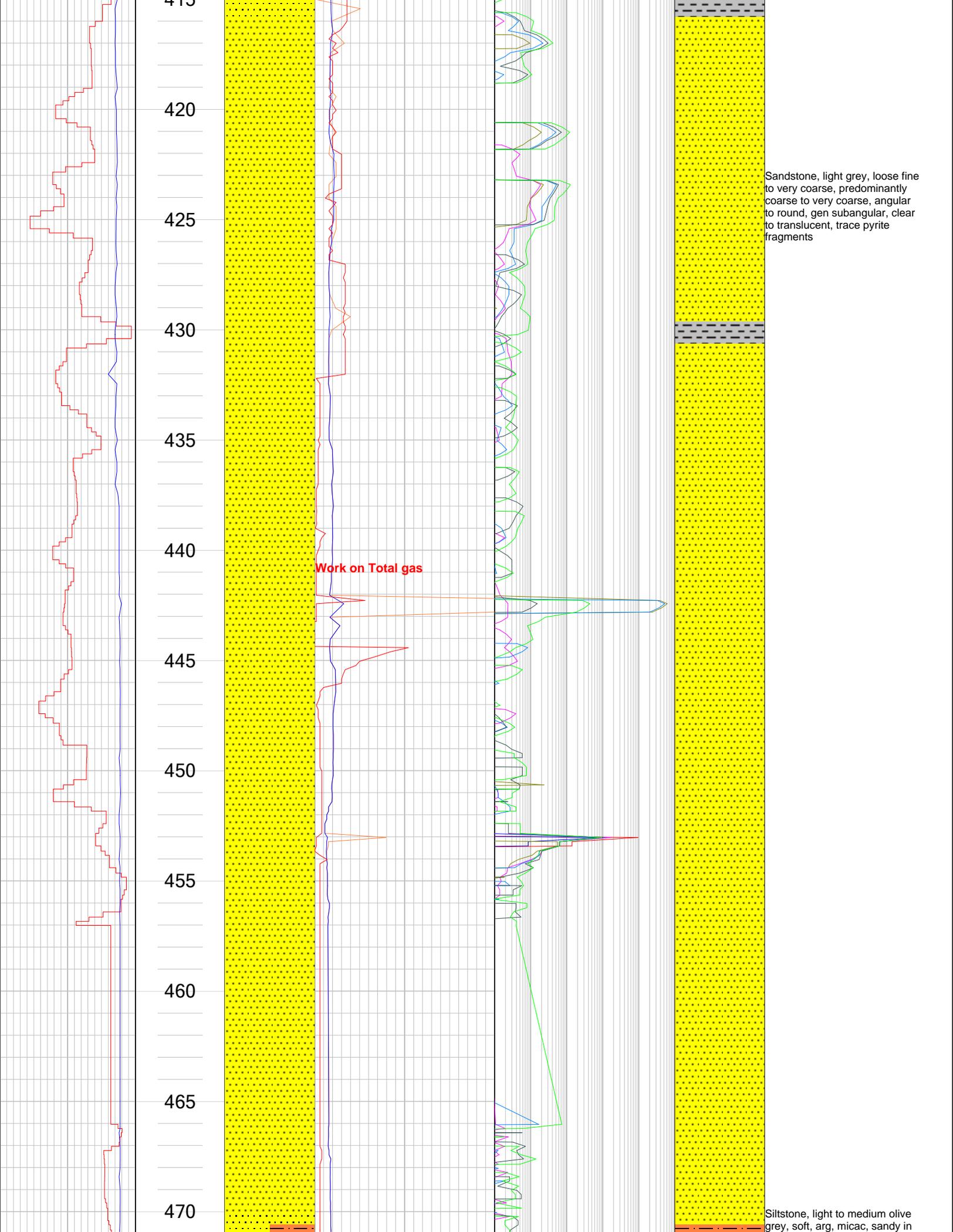
295

300

Claystone, medium dark gray,  
soft, poor trace coaly specks  
declining to rare with depth, silty  
grading in part to argillaceous  
Siltstone, trace to good trace  
very fine black glauconite grains,  
between 327m and 345m good  
trace black and dull green  
glauconite grains fine to medium  
graded, trace glauconite below  
this interval, slightly calcareous,  
rare fossil frags, slightly micaceous





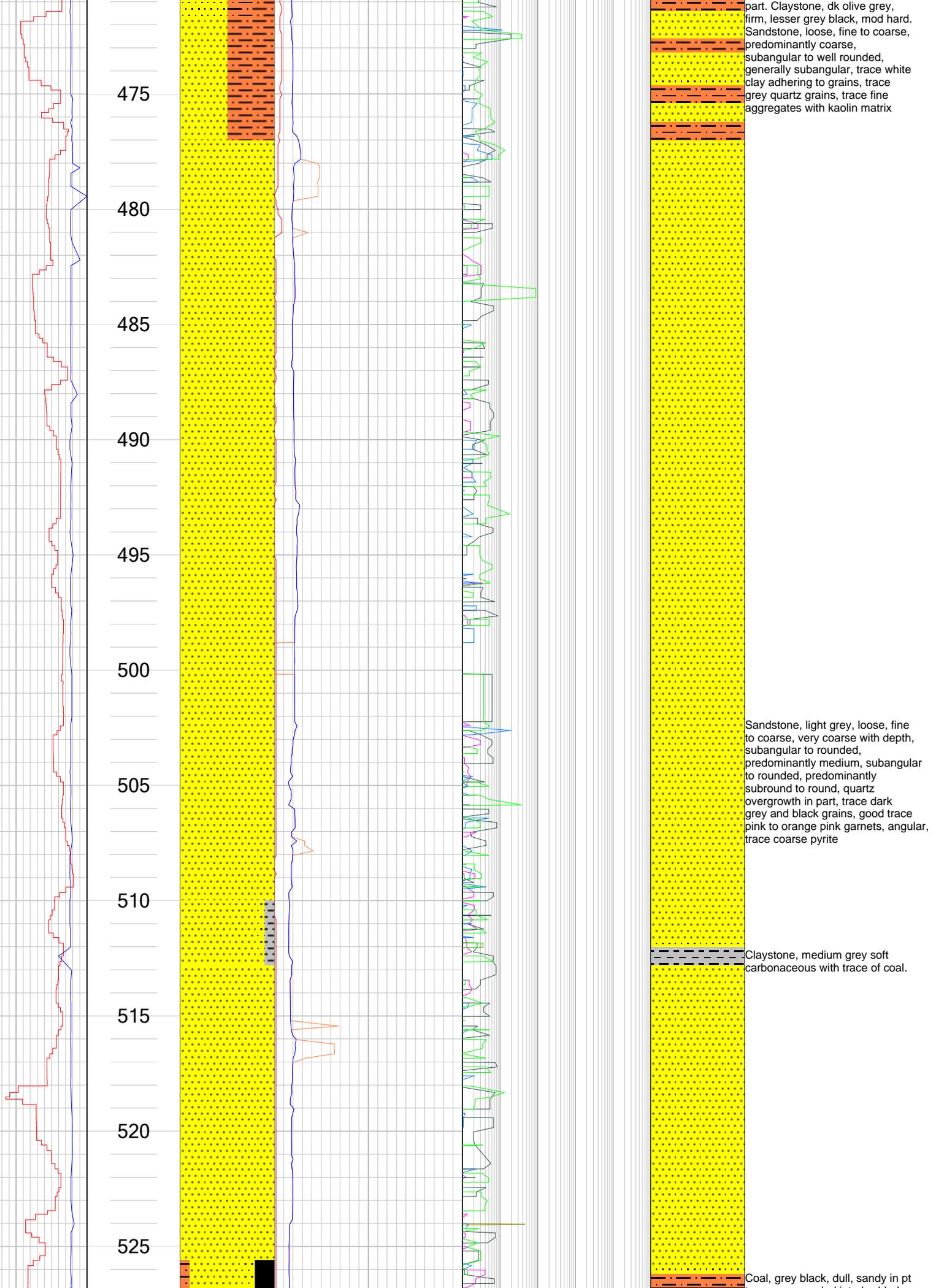


415  
420  
425  
430  
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470

Work on Total gas

Sandstone, light grey, loose fine to very coarse, predominantly coarse to very coarse, angular to round, gen subangular, clear to translucent, trace pyrite fragments

Siltstone, light to medium olive grey, soft, arg, micac, sandy in



530  
535  
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545  
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555  
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565  
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575  
580



to coarse rounded interbedded with brown Siltstone and very fine Sandstone.

Clay, increase in kaolin and light grey, soft soluble clay in sample, sandstone matrix

Sandstone, light grey, loose to friable, very fine to fine, subangular to angular, with abundant kaolin, loose coarse grains in part. Coal, grey black, dull, mod hard, coarse, rounded and blocky.

**TD 6 1/8" Hole @ 543.8m on 16 Jan 2010 @ 0700 hrs**

**Core 3.78" HQ from 543.8m**

Sandstone, med grey, friable to mod hard, very fine to coarse, coal laminae, thin coal beds, only trace kaolin matrix, occur as occasional thin beds 2m to 0.3m thick in the sandstone conglomerate at periodic intervals 650.7m to 717m, such beds very thin with depths

Sandstone, light to medium gray, firm to unconsolidated, fine to very coarse, poorly sorted, predominantly angular, trace white mica, trace biotite and muscovite mica good to excellent porosity, minor wisps of coal

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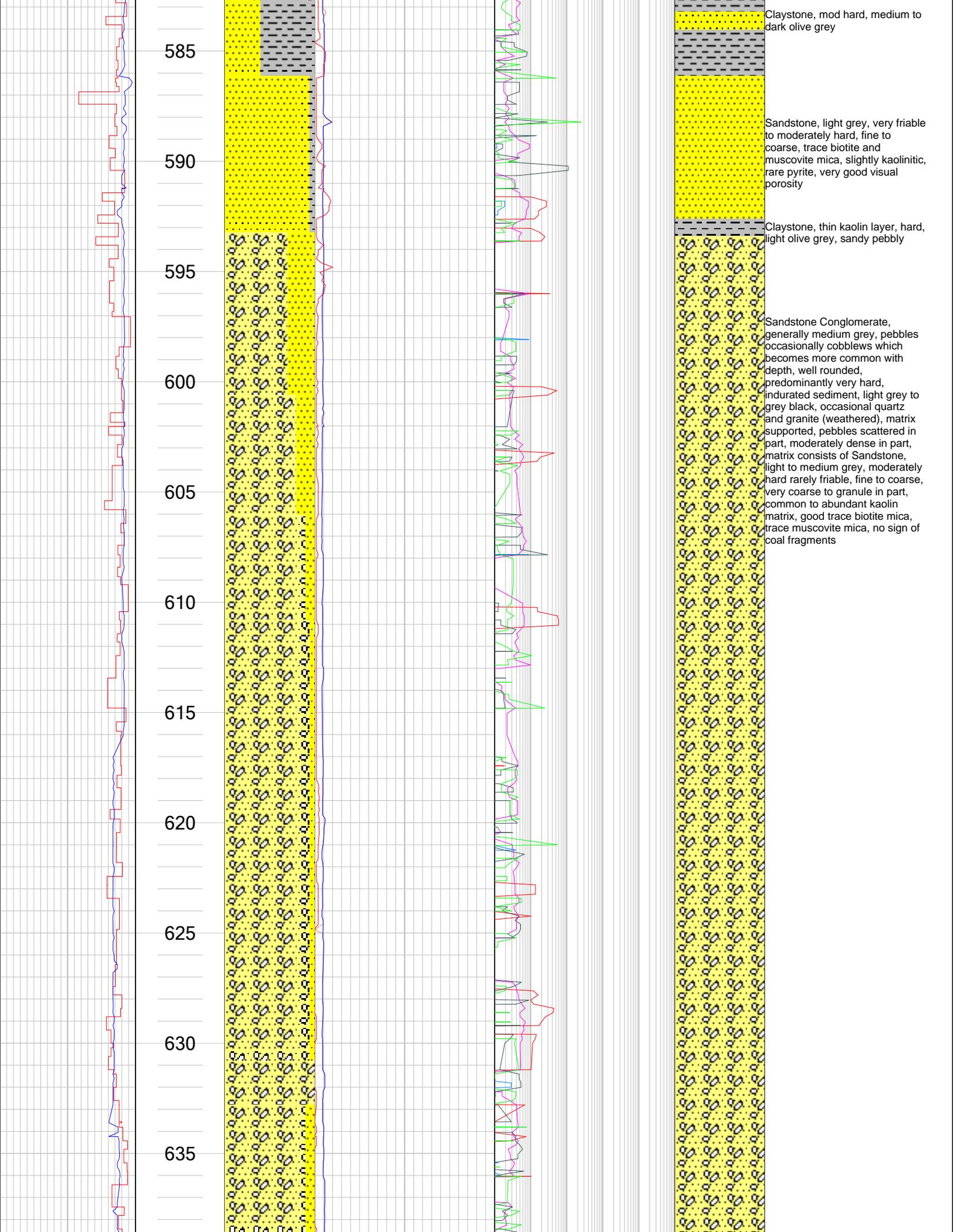
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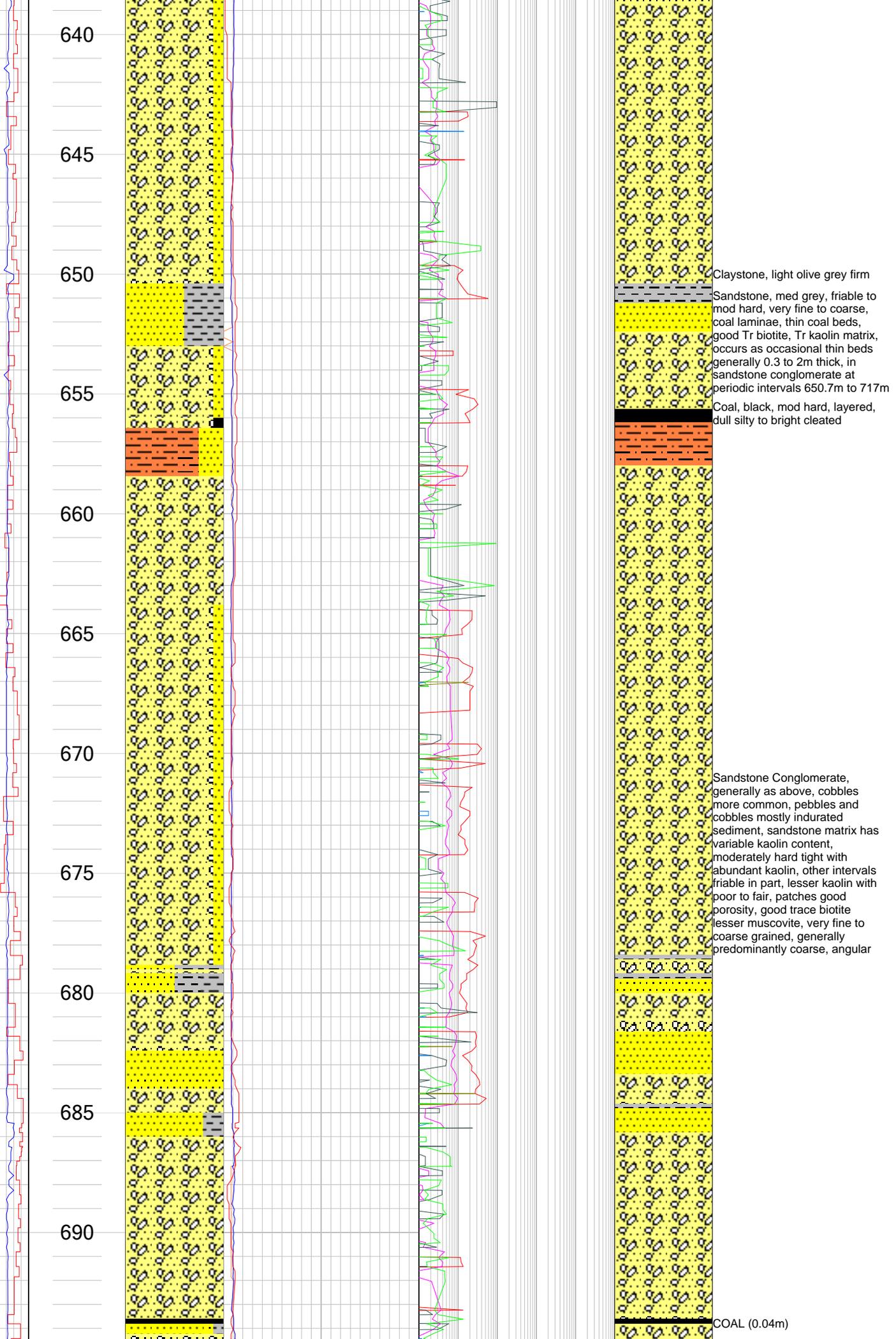
Claystone, mod hard, medium to dark olive grey

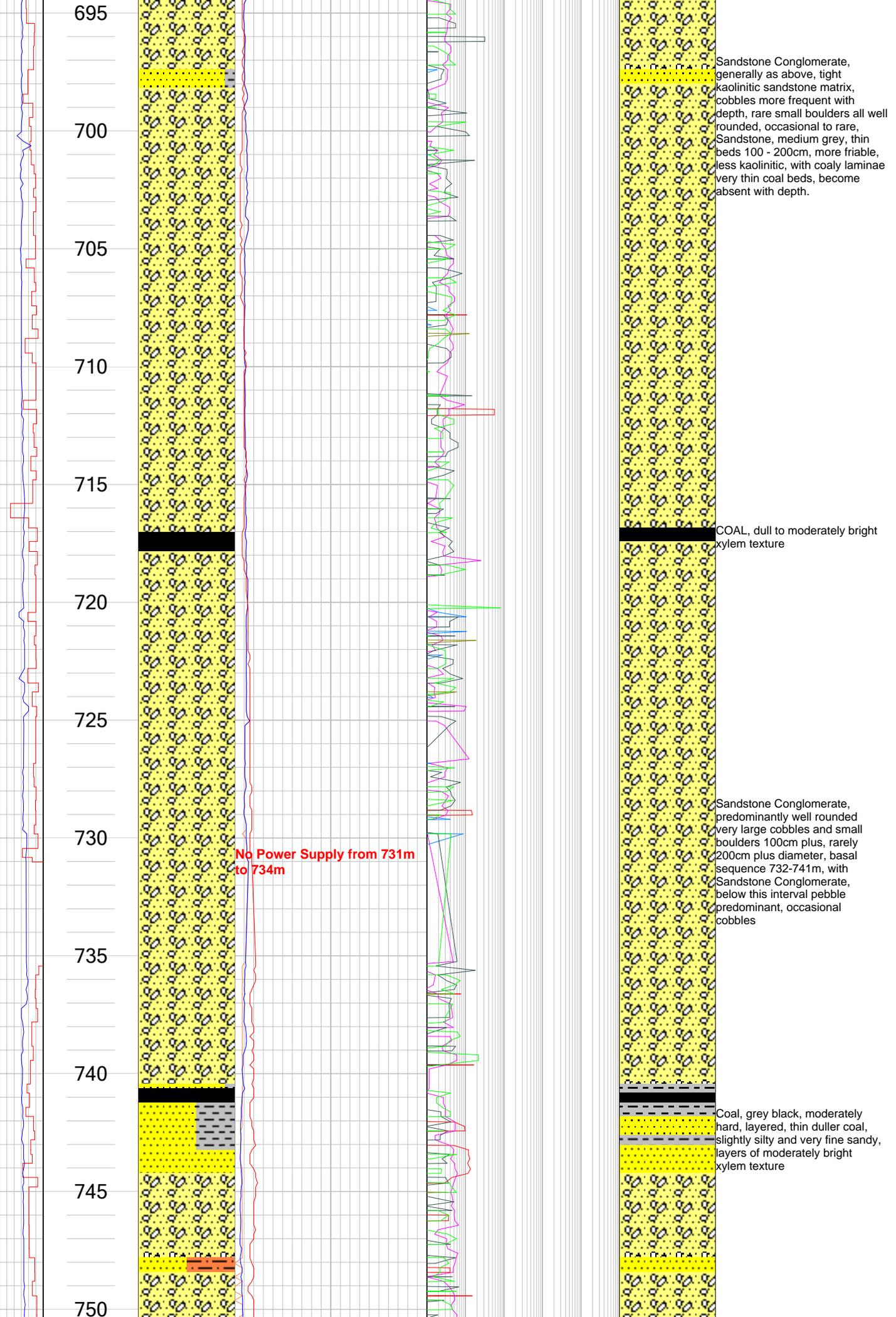
Sandstone, light grey, very friable to moderately hard, fine to coarse, trace biotite and muscovite mica, slightly kaolinitic, rare pyrite, very good visual porosity

Claystone, thin kaolin layer, hard, light olive grey, sandy pebbly

Sandstone Conglomerate, generally medium grey, pebbles occasionally cobbles which becomes more common with depth, well rounded, predominantly very hard, indurated sediment, light grey to grey black, occasional quartz and granite (weathered), matrix supported, pebbles scattered in part, moderately dense in part, matrix consists of Sandstone, light to medium grey, moderately hard rarely friable, fine to coarse, very coarse to granule in part, common to abundant kaolin matrix, good trace biotite mica, trace muscovite mica, no sign of coal fragments







695

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705

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745

750

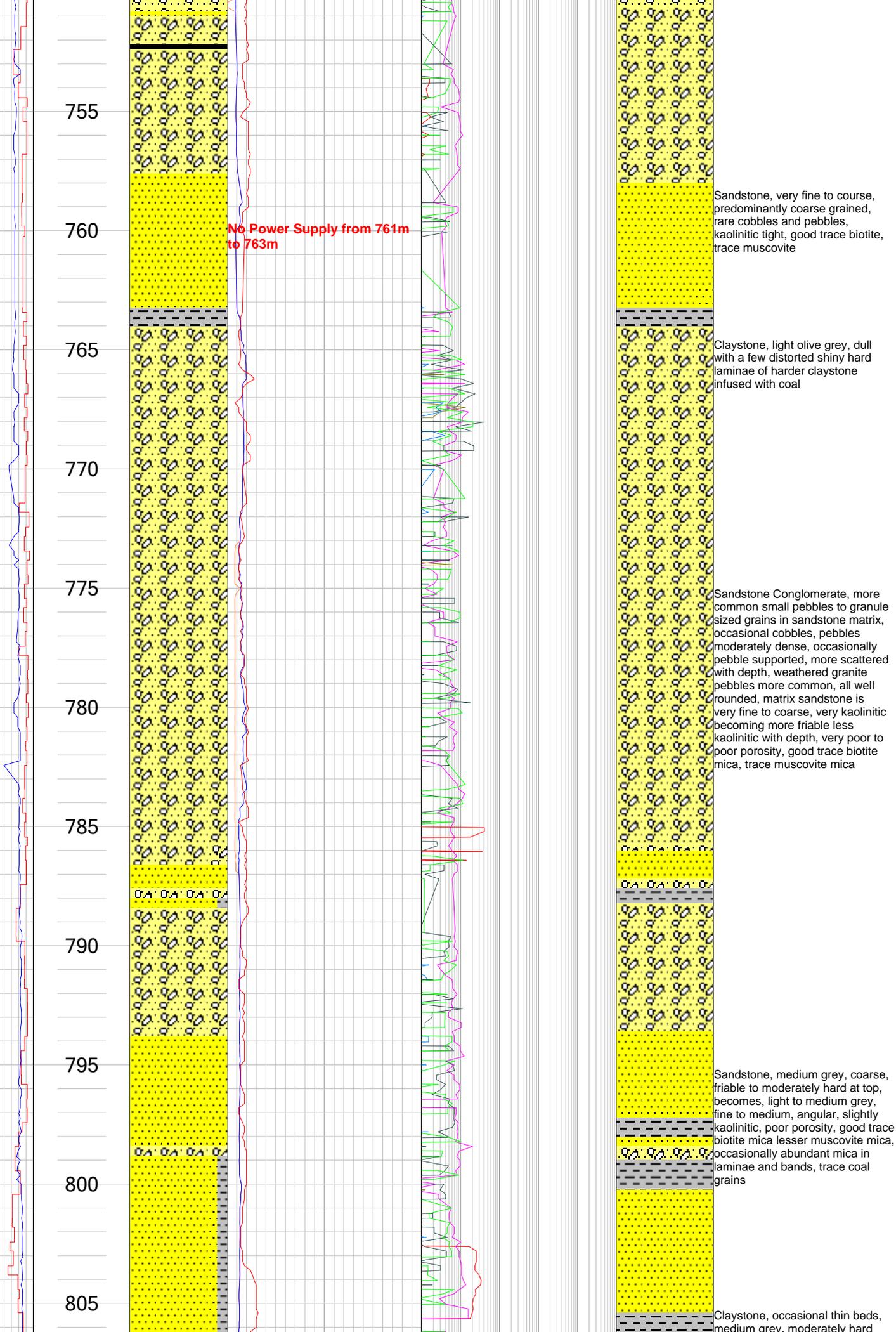
No Power Supply from 731m to 734m

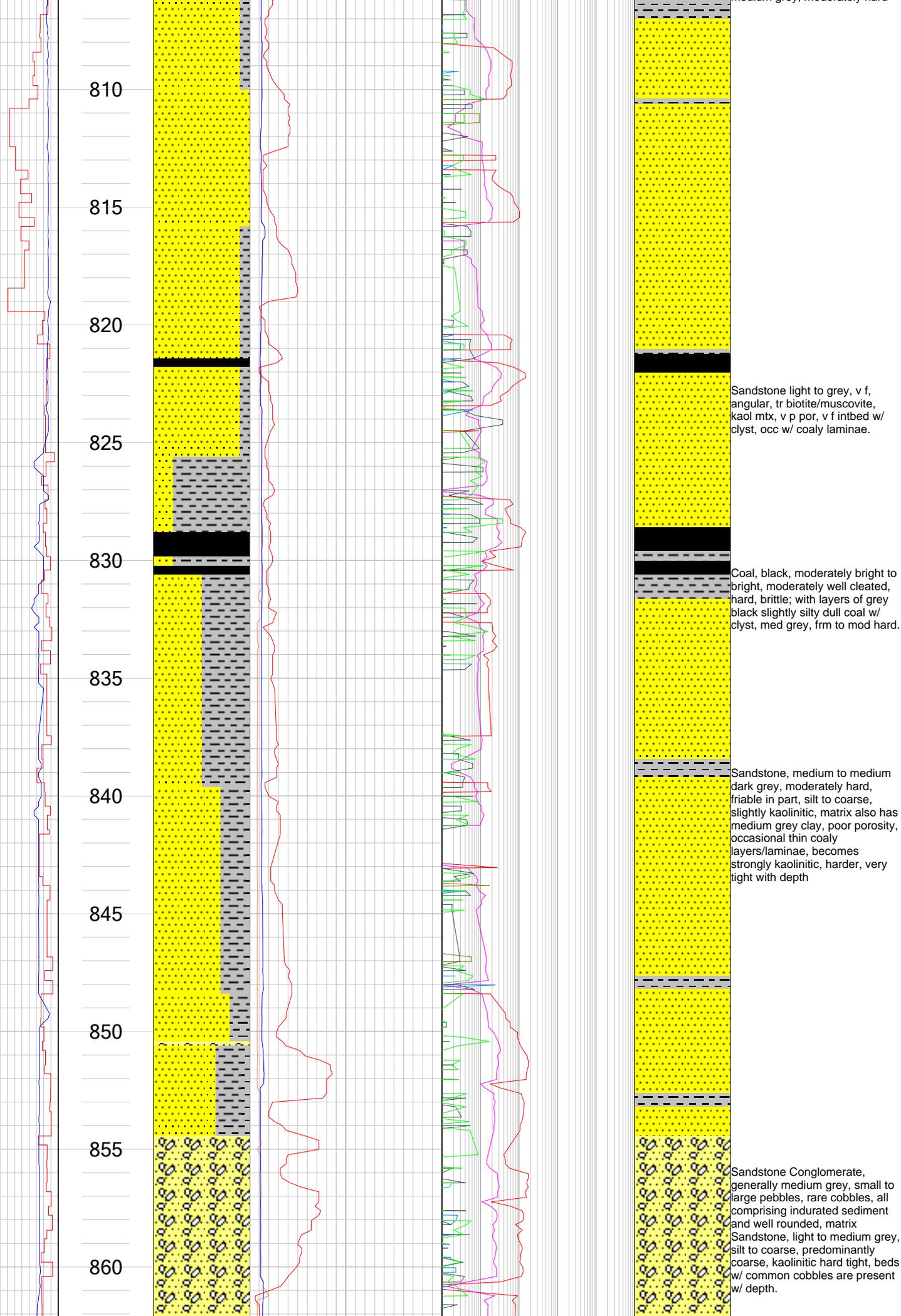
Sandstone Conglomerate, generally as above, tight kaolinitic sandstone matrix, cobbles more frequent with depth, rare small boulders all well rounded, occasional to rare. Sandstone, medium grey, thin beds 100 - 200cm, more friable, less kaolinitic, with coaly laminae very thin coal beds, become absent with depth.

COAL, dull to moderately bright xylem texture

Sandstone Conglomerate, predominantly well rounded very large cobbles and small boulders 100cm plus, rarely 200cm plus diameter, basal sequence 732-741m, with Sandstone Conglomerate, below this interval pebble predominant, occasional cobbles

Coal, grey black, moderately hard, layered, thin duller coal, slightly silty and very fine sandy, layers of moderately bright xylem texture





865  
870  
875  
880  
885  
890  
895  
900



WELL CBM93-003  
TD @ 897m  
on 26 January 2010  
@ 1000hrs.