



**CENTRAL PETROLEUM
WELL: CBM 93 - 004**



Weatherford

HoleData:
12.25", 0, 15 m
8.5", 15m, 249.5m
6.125", 249.5m, 501.9m
3.775", 501.9m, 978m

CasingData:
12.25", 0 m, 15 m,
7", 15 m, 245m,
4.5", 248m, 501m,

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:
Muhd Redzuan Shamsuddin
Muhd Mukhsin
Liam Gending

Operator: Central Petroleum
Well: CBM93-004
Location: Central Australia
Country: Australia
UWID: CBM 93-004
Elevation GL: 185.00
KB: 1.00
Drilling Rig: WALLIS RIG D 39
Spud Date: December 04, 2009
Print Date: March 22, 2010
Scale: 1:200

Engineering
Bit Trip
Dummy Trip
Mud Loss

Engineering
Wireline Log
Casing
Directional Drill

Side Wall Core
Perforated Interval

Lithology

	Siltstone 2		Shale		Claystone
	Sandstone		Limestone		Mudstone
	Siltstone		Coal		Calcareous Claystone

Company : Central Petroleum Ltd. **Well :** CBM 107 - 001 **Location :** Perdika Basin, Central Australia **Spud :** 4 February 2009 **Scale :** 1:200

ROP Average m/hr	WOB Klb	Depth	Percentage Lithology	Total Gas Chromat units	Methane ppm	Carbon Dioxide units	Ethane ppm	Total Gas units	Propane ppm	Iso-Butane ppm	N-Butane ppm	Iso-Pentane ppm	Interpreted Lithology	Remarks
50	30	5	Sandstone	1000	10000	1000	10000	1000	10000	1000	10000	1000	SANDSTONE: It yel gy, lse, med-v crse, subang-subrnd, tr wh frm Silcrete	

ROP based on Drillers
Estimation from 1-248m

10

15

20

25

30

35

40

45

50

55

60

No Gas data (1-248m)
Mudlogging Shack
not ready due
to no power supply

12.25" Conductor hole
TD @15m on
03 Dec 2009 @ 1500hrs

CLAYSTONE: off wh, tan,
sft, tr limonite

CLAYSTONE: med dk gry,
sft, tr firm, com disem carb
mtl and f-crse coal grains

65

70

75

80

85

90

95

100

105

110

115

CLAYSTONE: med dk gry,
sft bcm sft stky,micac, v f-f
coal specks, non calc

CLAYSTONE: med dk gry-dk
gry, sft, sloppy, pr tr glauc,
occ in clusters, tr slt-v f
coal specks

Sandstone: off wh, fri, v f,
subang, glauc, sl calc

120

125

130

135

140

145

150

155

160

165

170

CLAYSTONE: med drk gy-drk
gy, sft, sloppy, pr tr of f glau
grns occ in cluster, coaly
spks remain as tr, v f-slit
sized, sli micaceous

CLAYSTONE: med dk gry-dk
gry, sft, sloppy, pr tr glauc,
bcm rr w/dpth, pr tr slit sized
coal specks, non-sl calc frm
v f calc frags

175

180

185

190

195

200

205

210

215

220

225

230



230

235

240

245

250

255

260

265

270

275

280

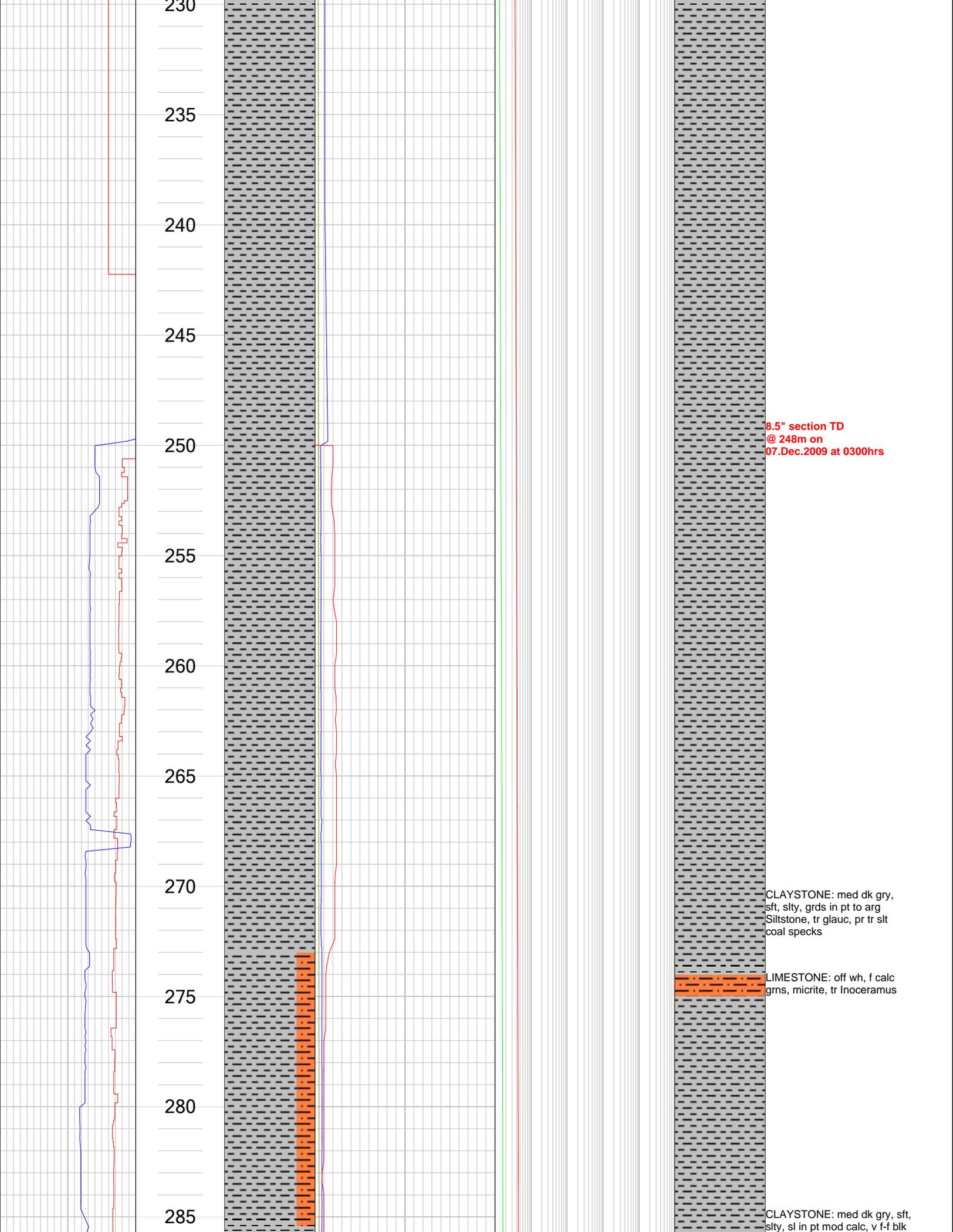
285

8.5" section TD
@ 248m on
07.Dec.2009 at 0300hrs

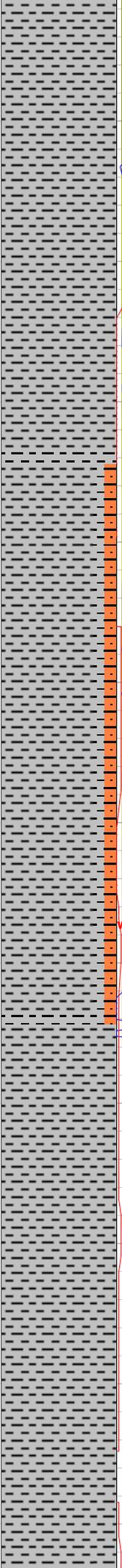
CLAYSTONE: med dk gry,
sft, slty, grds in pt to arg
Siltstone, tr glauc, pr tr slt
coal specks

LIMESTONE: off wh, f calc
gms, micrite, tr Inoceramus

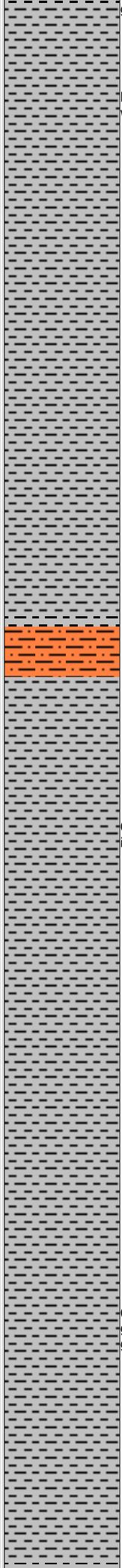
CLAYSTONE: med dk gry, sft,
slty, sl in pt mod calc, v f-f blk



290
295
300
305
310
315
320
325
330
335
340



work on gas equipment



gms
LIMESTONE: pr tr micritic
w/v f calc grns in pt

CLAYSTONE: a/a w/
increasing glauc,

CLAYSTONE: med dk gry,
grn tinge in pt, com v f-f blk
glauc grns, non calc

345

350

355

360

365

370

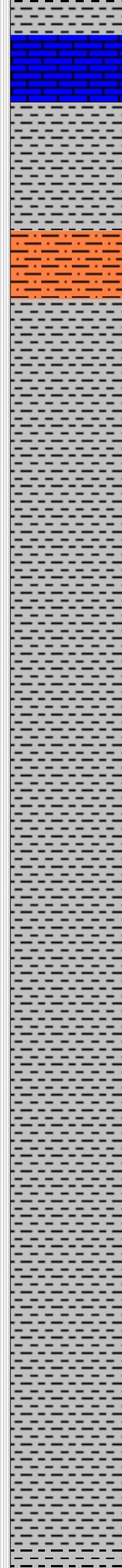
375

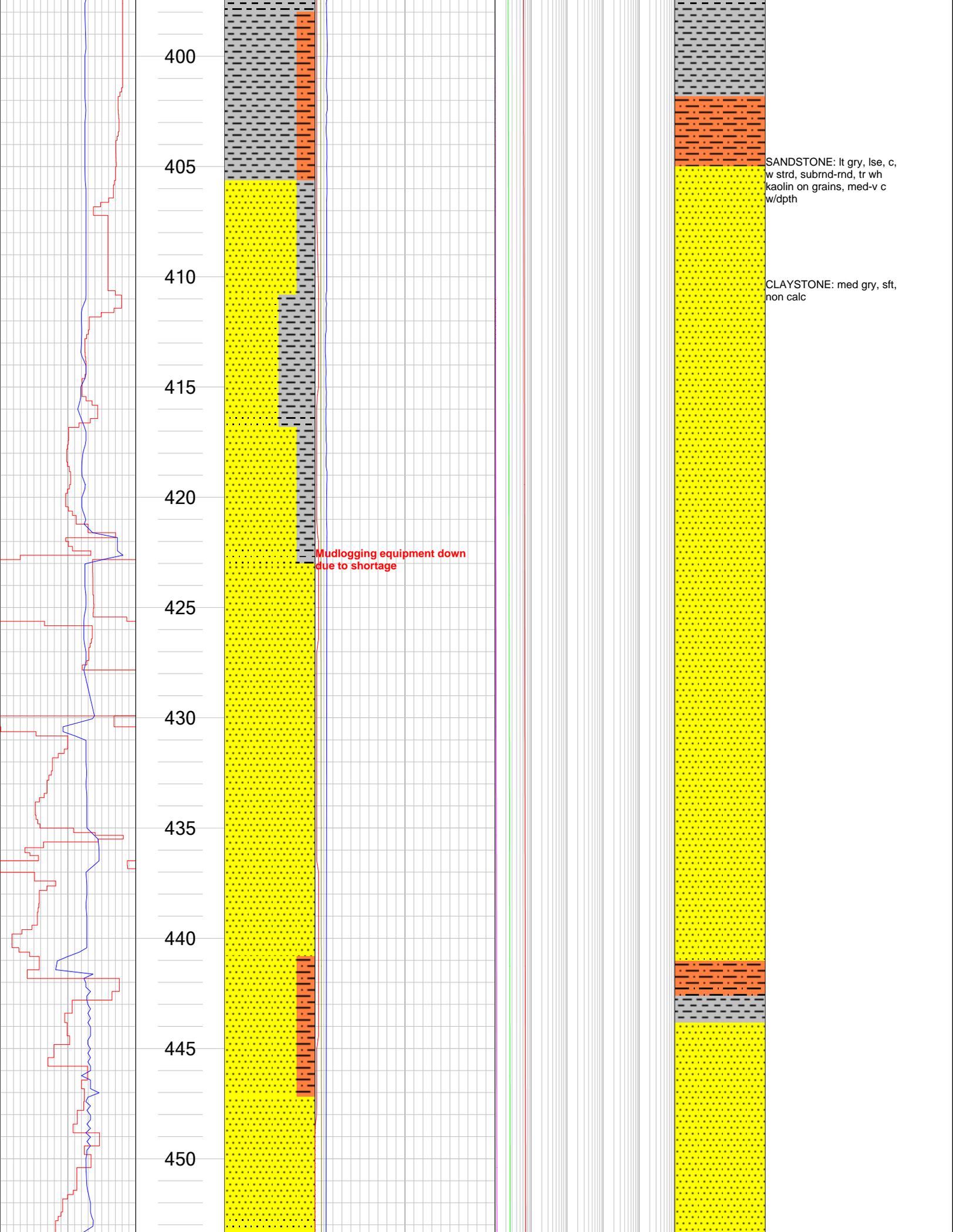
380

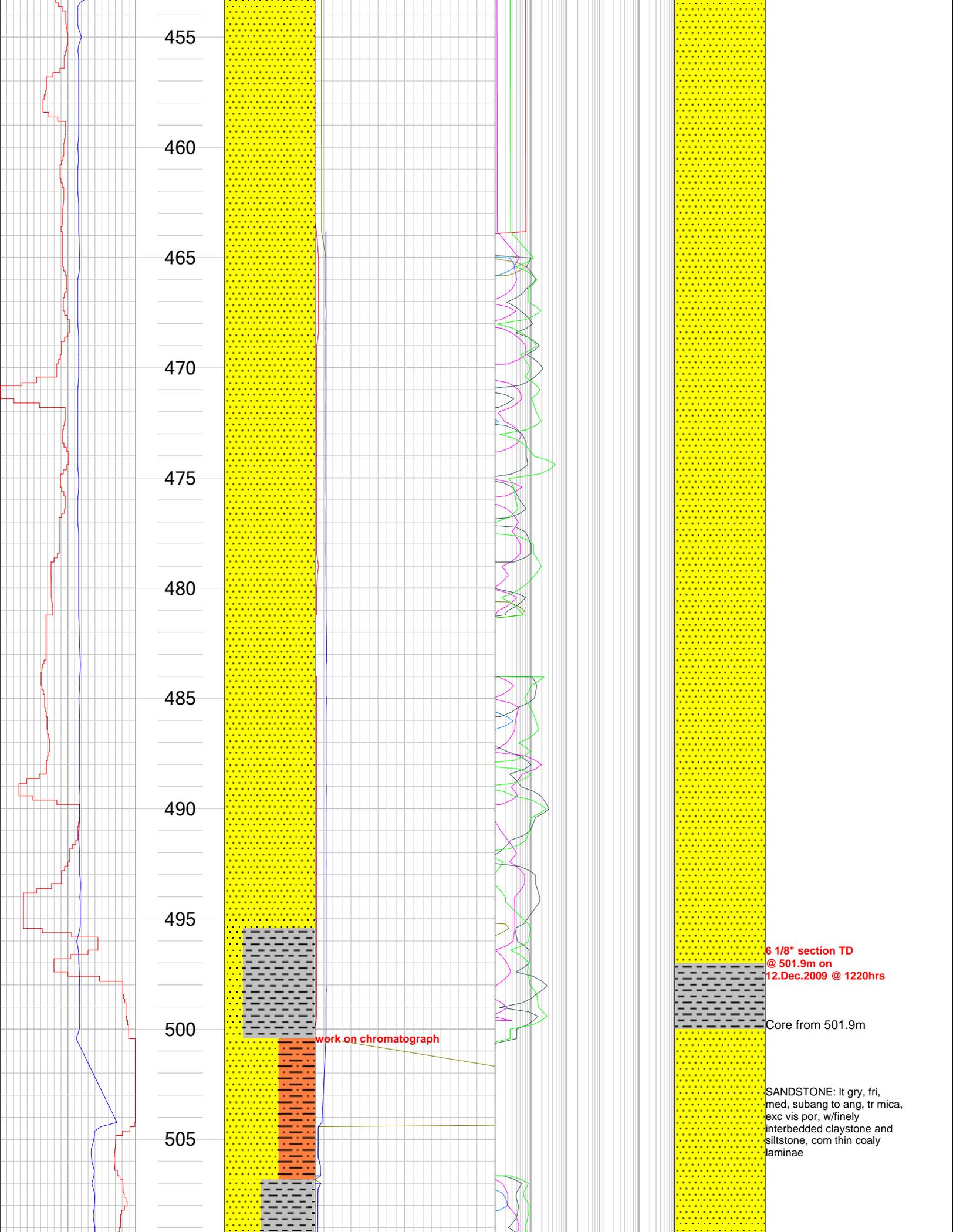
385

390

395







455

460

465

470

475

480

485

490

495

500

505

6 1/8" section TD
@ 501.9m on
12.Dec.2009 @ 1220hrs

Core from 501.9m

work on chromatograph

SANDSTONE: lt gry, fri,
med, subang to ang, tr mica,
exc vis por, w/finely
interbedded claystone and
siltstone, com thin coaly
laminae

510

Work on chromatograph

515

Calibrate Gas Equipment

520

525

530

535

540

545

550

555

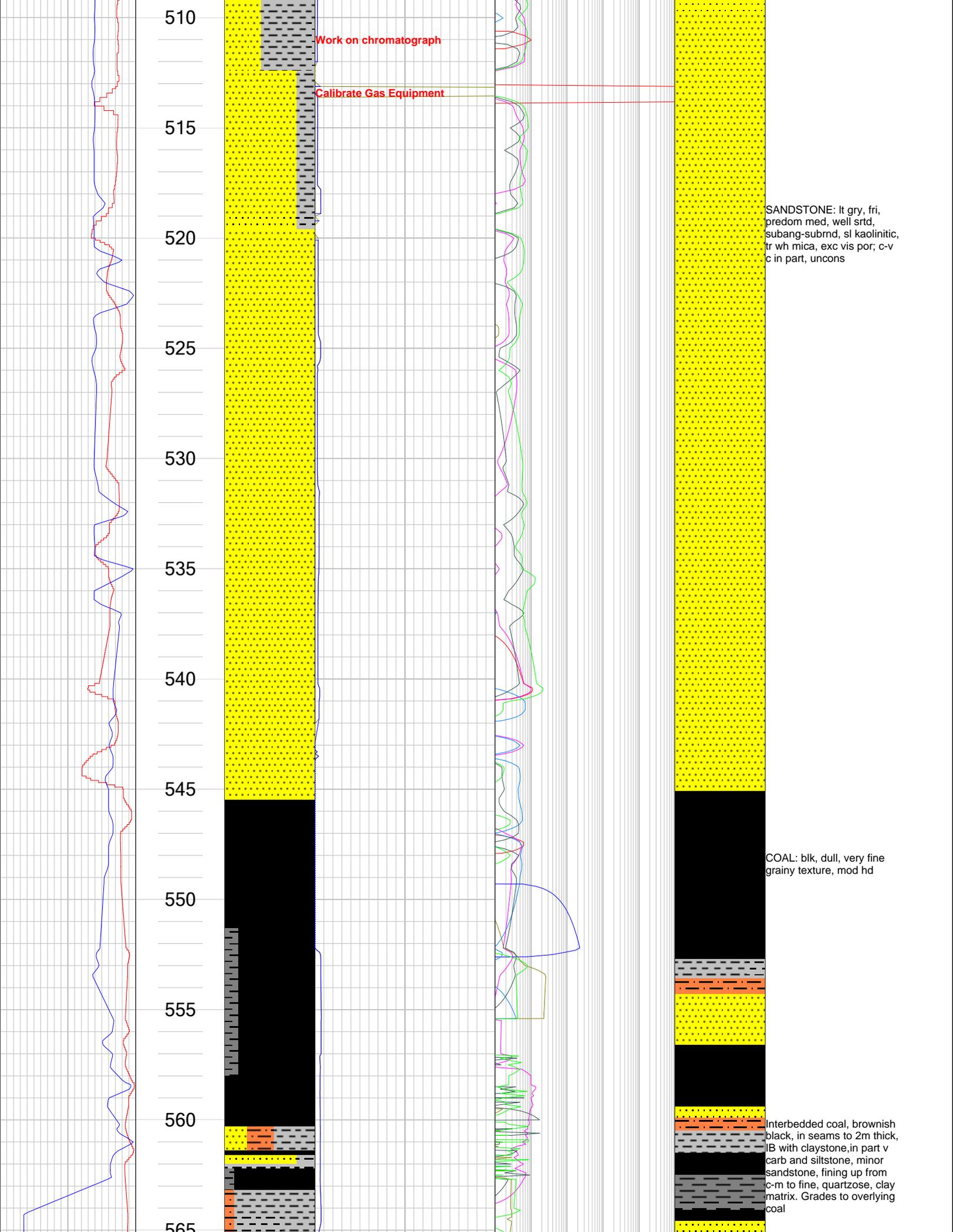
560

565

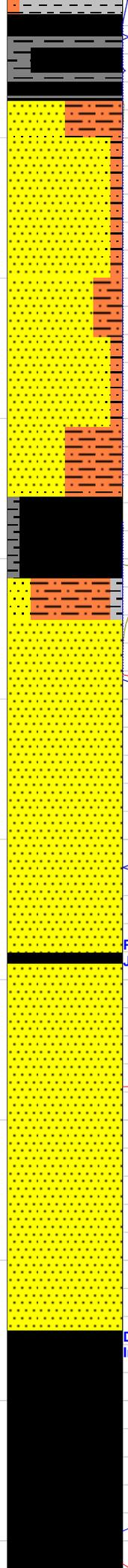
SANDSTONE: lt gry, fri, predom med, well srtd, subang-subrnd, sl kaolinitic, tr wh mica, exc vis por; c-v c in part, uncons

COAL: blk, dull, very fine grainy texture, mod hd

Interbedded coal, brownish black, in seams to 2m thick, IB with claystone, in part v carb and siltstone, minor sandstone, fining up from c-m to fine, quartzose, clay matrix. Grades to overlying coal



565
570
575
580
585
590
595
600
605
610
615
620



POOH due to
Jammed Core Barrel

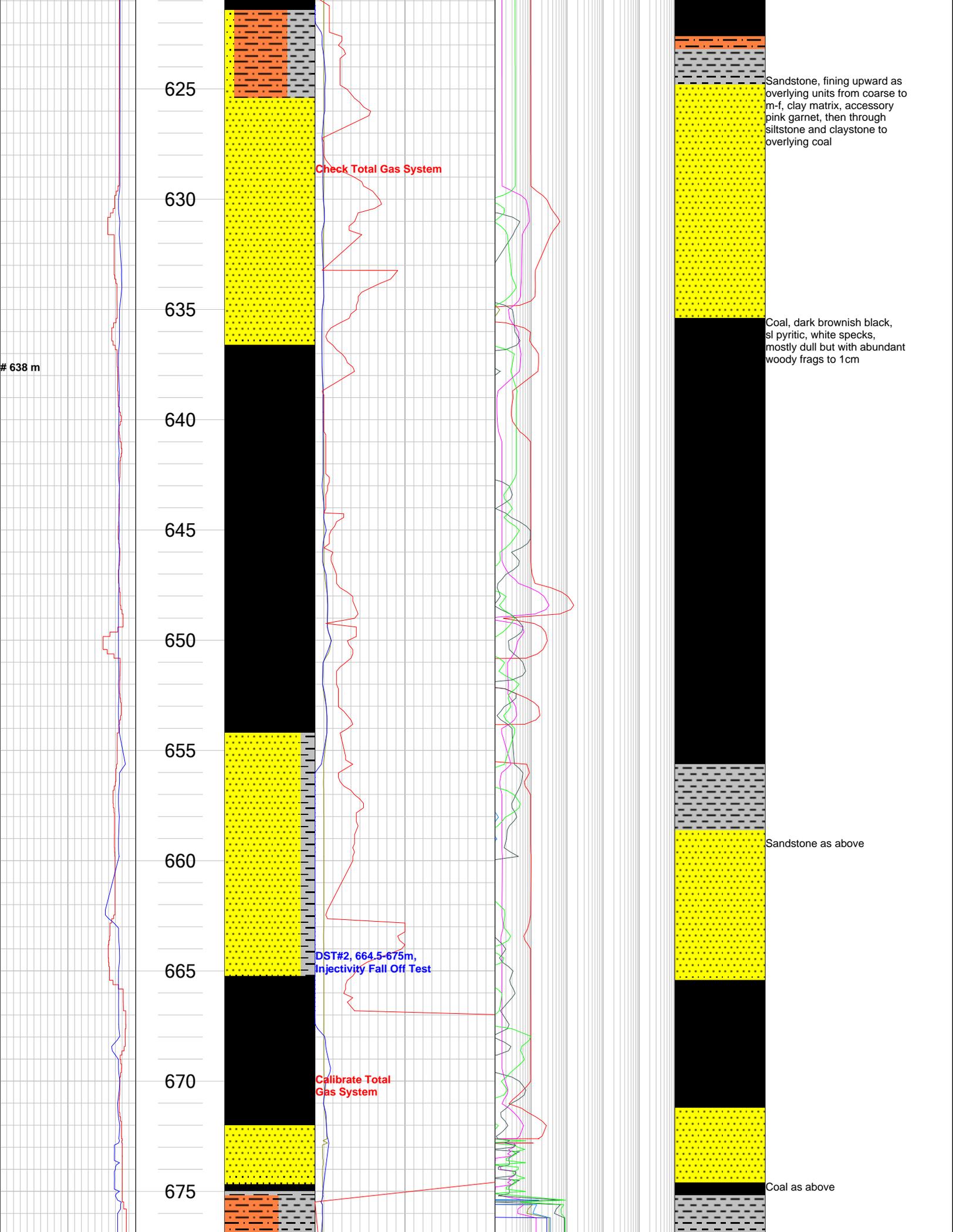
DST#1, 613.5-621m,
Injectivity Fall Off Test

Sandstone, several upward
fining cycles, coarse - med,
poor sort, subang, quartzose,
some lithics , grading up to
med-fine, sa-sr, well sorted.
Abundant clay (kaol) mx,
common muscovite and
locally common pink garnet

Coal, dark brown, generally
dull

Sandstone, generally coarse,
med, quartzose, clay matrix,
poor sort, sa-sr, in several
vague upward fining
sequences to better sorted
but overall fairly uniform.
Occasional thin coal beds
and wood frags, softer and
friable but still with clay matrix
589-597m. Occasional pink
garnet, muscovite. Grades
rapidly to overlying coal

Coal, brownish black, dull
occasional bright bands
where cleat is visible



638 m

625
630
635
640
645
650
655
660
665
670
675

Check Total Gas System

DST#2, 664.5-675m,
Injectivity Fall Off Test

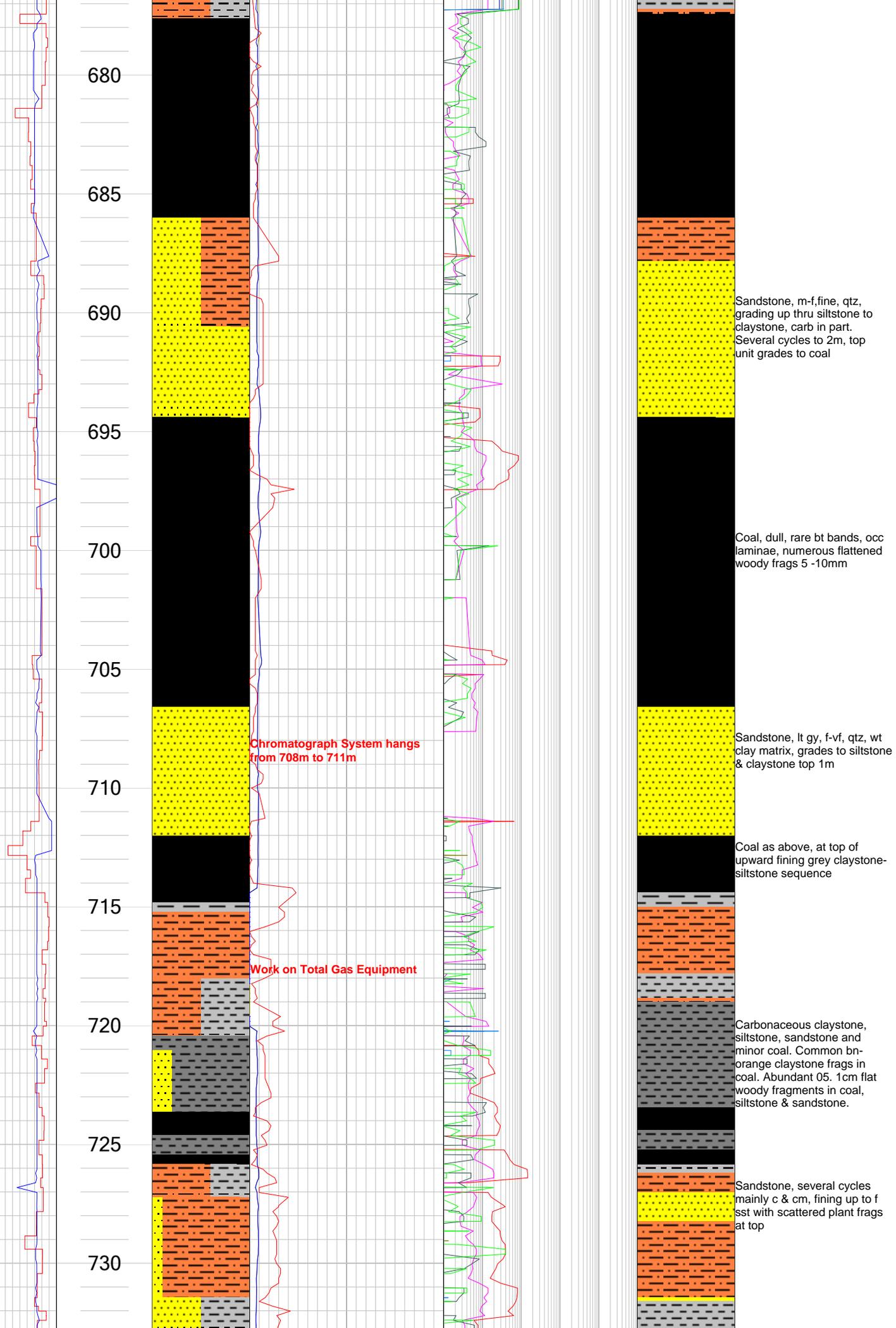
Calibrate Total Gas System

Sandstone, fining upward as overlying units from coarse to m-f, clay matrix, accessory pink garnet, then through siltstone and claystone to overlying coal

Coal, dark brownish black, sl pyritic, white specks, mostly dull but with abundant woody frags to 1cm

Sandstone as above

Coal as above



735
740
745
750
755
760
765
770
775
780
785

DST#3 758.9- 773m,
Injectivity Fall Off Test

Coal, mostly dull, with wood
frags as above, but uniform
overall, common vert fracts

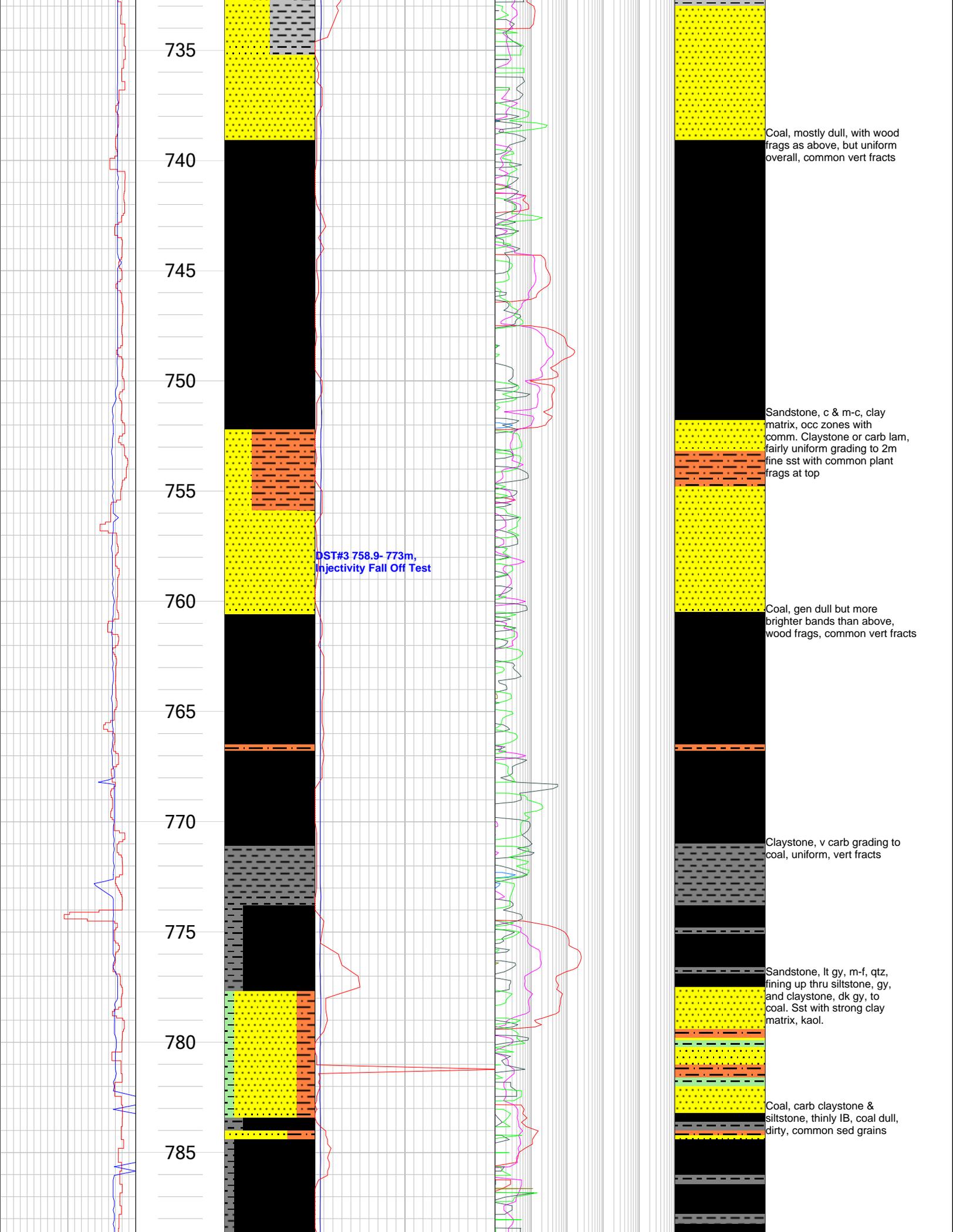
Sandstone, c & m-c, clay
matrix, occ zones with
comm. Claystone or carb lam,
fairly uniform grading to 2m,
fine sst with common plant
frags at top

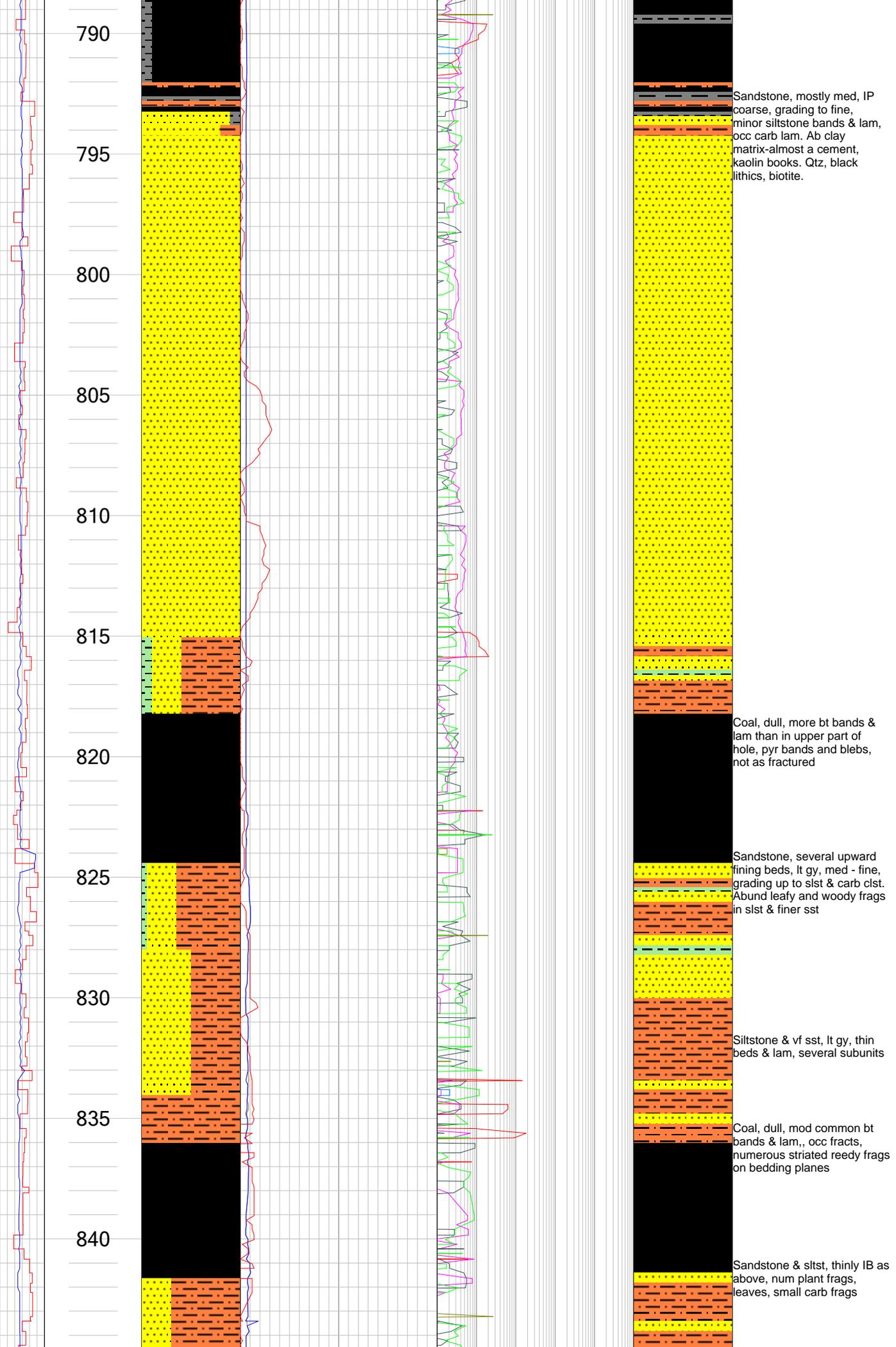
Coal, gen dull but more
brighter bands than above,
wood frags, common vert fracts

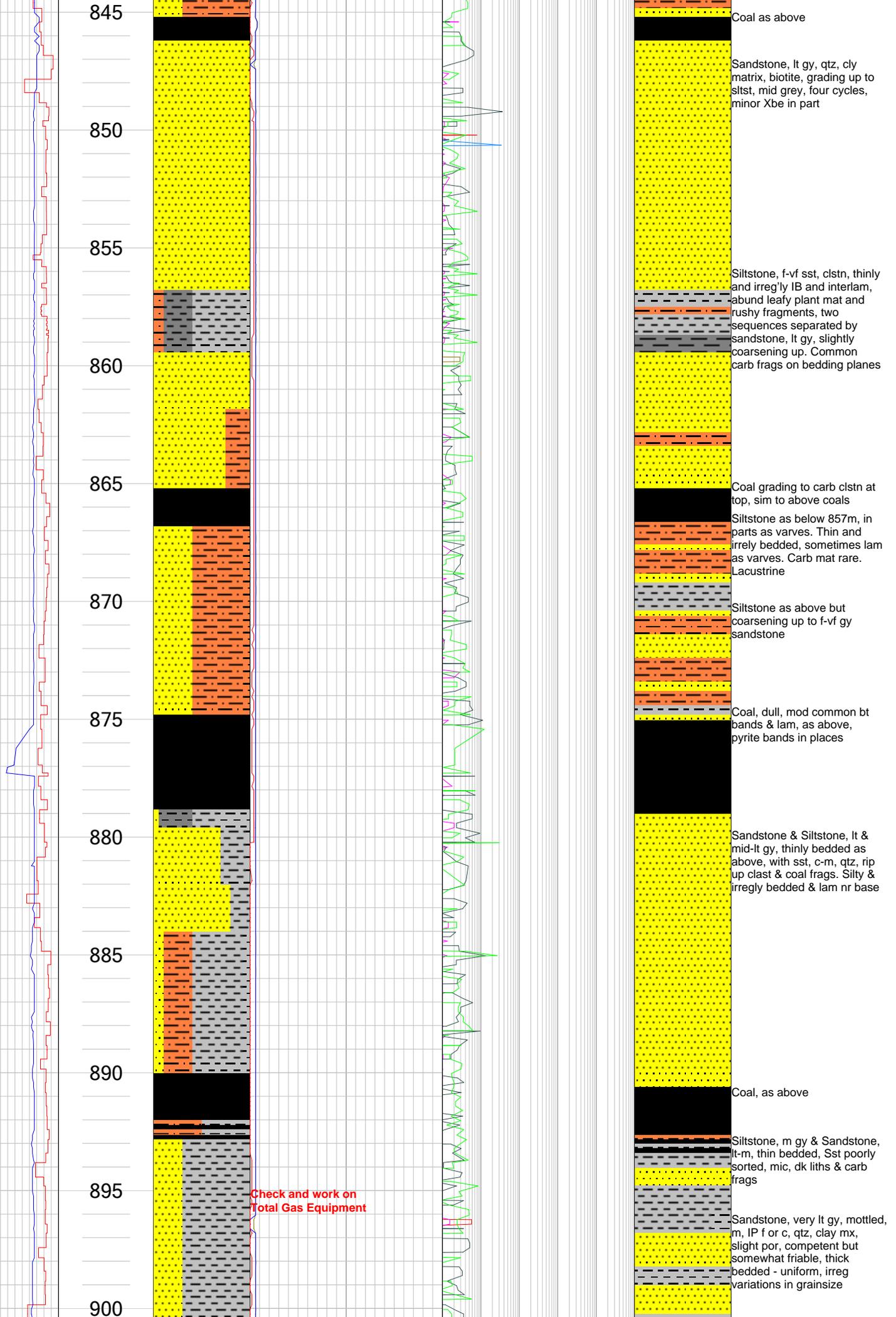
Claystone, v carb grading to
coal, uniform, vert fracts

Sandstone, lt gy, m-f, qtz,
fining up thru siltstone, gy,
and claystone, dk gy, to
coal. Sst with strong clay
matrix, kaol.

Coal, carb claystone &
siltstone, thinly IB, coal dull,
dirty, common sed grains







845

850

855

860

865

870

875

880

885

890

895

900

Coal as above

Sandstone, lt gy, qtz, cly matrix, biotite, grading up to sltst, mid grey, four cycles, minor Xbe in part

Siltstone, f-vf sst, clstn, thinly and irreg'ly IB and interlam, abund leafy plant mat and rushy fragments, two sequences separated by sandstone, lt gy, slightly coarsening up. Common carb frags on bedding planes

Coal grading to carb clstn at top, sim to above coals

Siltstone as below 857m, in parts as varves. Thin and irregly bedded, sometimes lam as varves. Carb mat rare. Lacustrine

Siltstone as above but coarsening up to f-vf gy sandstone

Coal, dull, mod common bt bands & lam, as above, pyrite bands in places

Sandstone & Siltstone, lt & mid-lt gy, thinly bedded as above, with sst, c-m, qtz, rip up clast & coal frags. Silty & irregly bedded & lam nr base

Coal, as above

Siltstone, m gy & Sandstone, lt-m, thin bedded, Sst poorly sorted, mic, dk liths & carb frags

Sandstone, very lt gy, mottled, m, IP f or c, qtz, clay mx, slight por, competent but somewhat friable, thick bedded - uniform, irreg variations in grainsize

Check and work on Total Gas Equipment

