



**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: 1:500



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

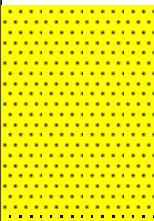
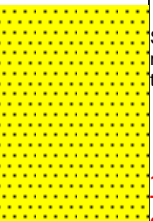


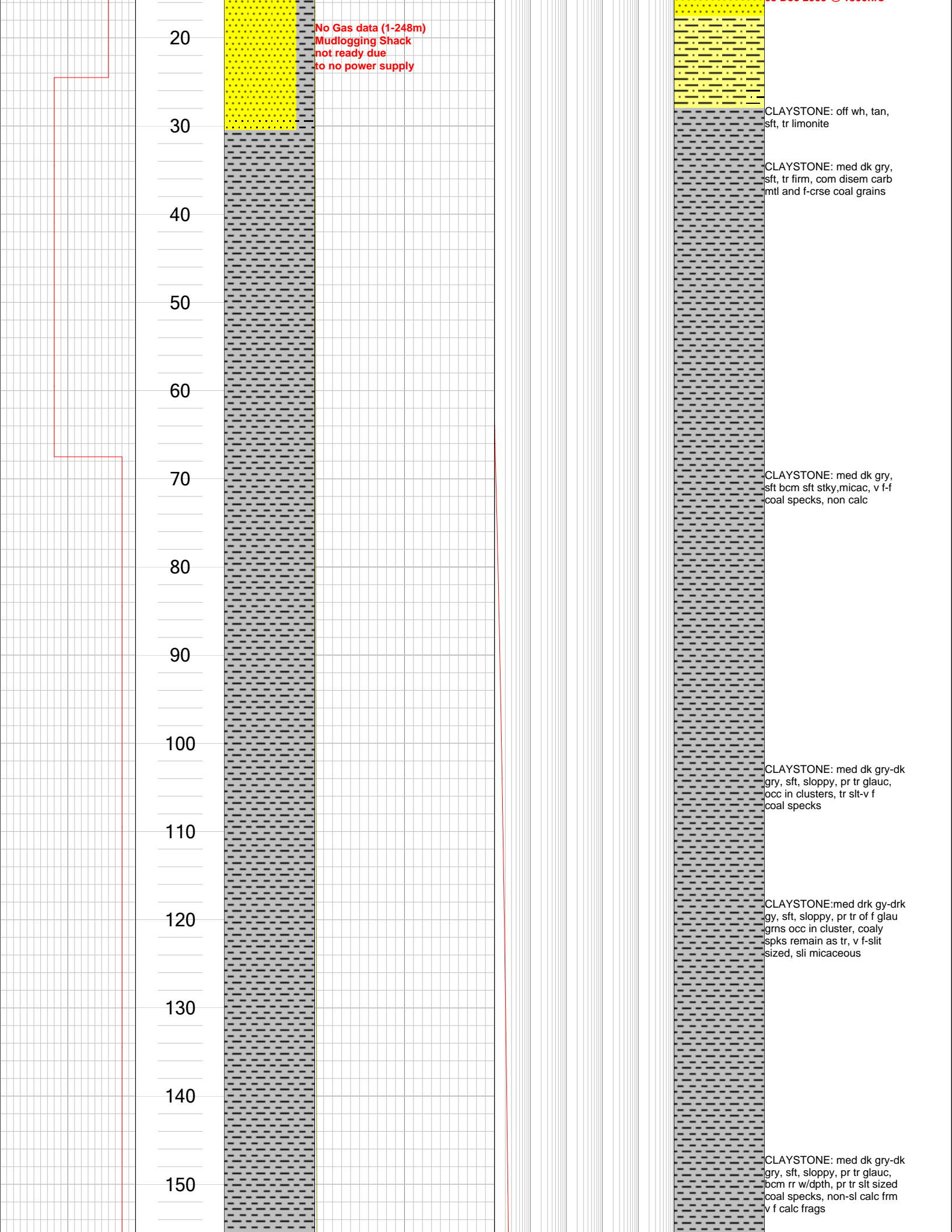
Mudstone

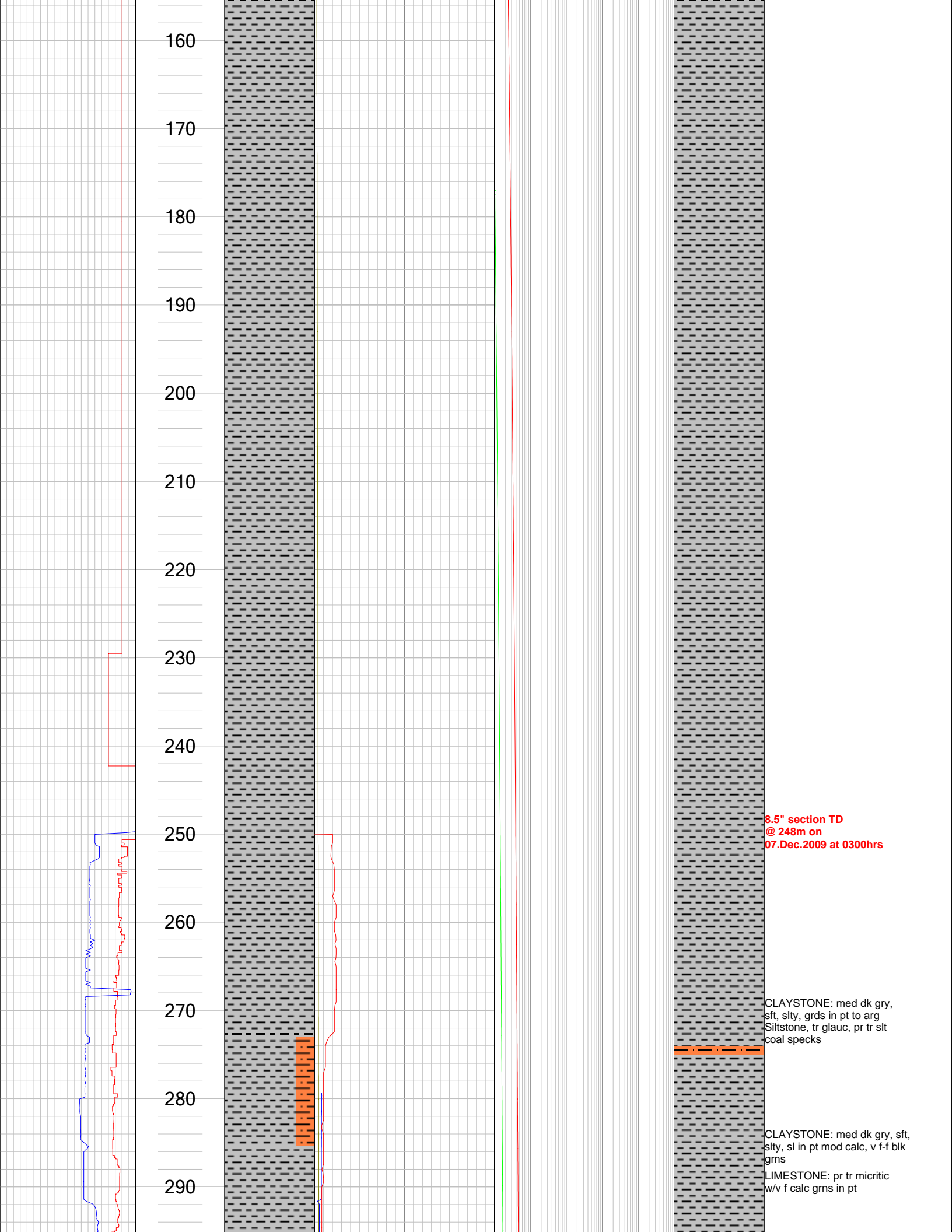


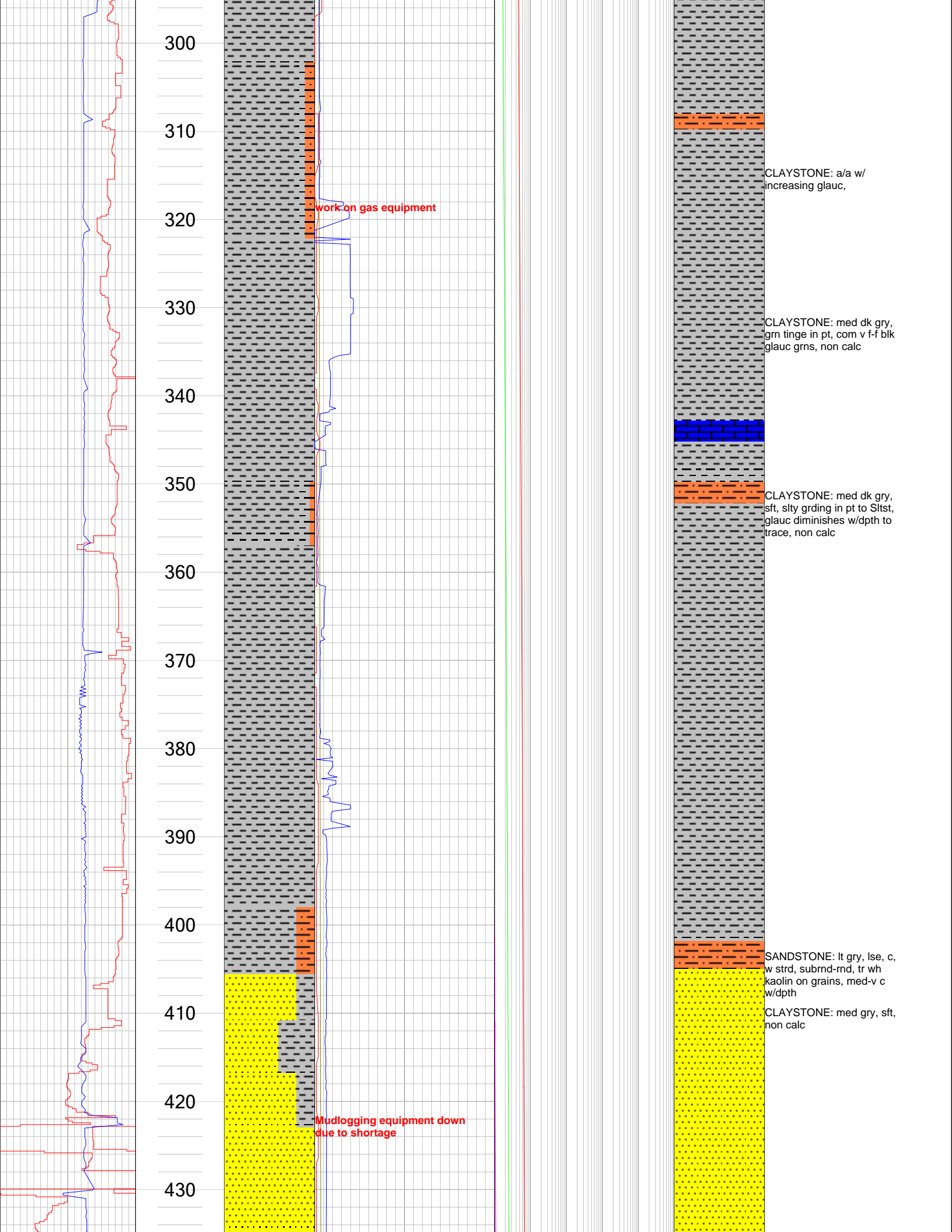
Calcareous Claystone

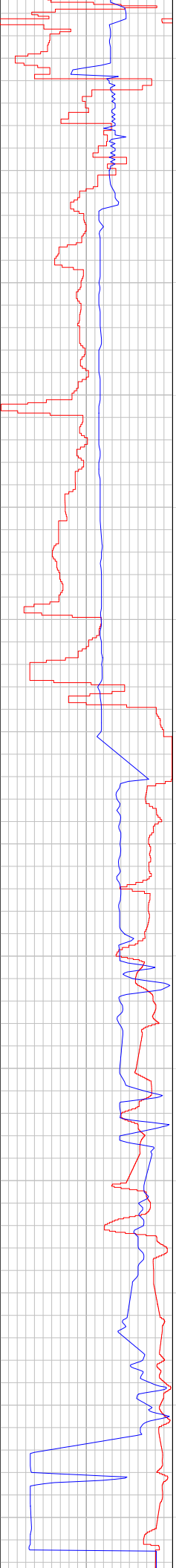
Company : Central Petroleum Ltd. Well : CBM 107 - 001 Location : Perdika Basin, Central Australia Spud : 4 February 2009 Scale : 1:500

| | | | | | | | | | | |
|---|--|--|-------|---|---|--|--|--|---|--|
| <div>ROP Average</div> <div>50 m/hr 0</div> | | | Depth | Percentage Lithology | <div>Total Gas Chromat</div> <div>0 units 100</div> | | <div>Methane</div> <div>0.1 ppm 10000</div> | | Interpreted Lithology | Remarks |
| <div>WOB</div> <div>30 Klb 0</div> | | | | | <div>Carbon Dioxide</div> <div>0 units 100</div> | | <div>Ethane</div> <div>0.1 ppm 10000</div> | | | |
| | | | | | <div>Total Gas</div> <div>0 units 100</div> | | <div>Propane</div> <div>0.1 ppm 10000</div> | | | |
| | | | | | | | <div>Iso-Butane</div> <div>0.1 ppm 10000</div> | | | |
| | | | | | | | <div>N-Butane</div> <div>0.1 ppm 10000</div> | | | |
| | | | | | | | <div>Iso-Pentane</div> <div>0.1 ppm 10000</div> | | | |
| <div>ROP Average</div> <div>50 m/hr 0</div> | | | 10 |  | <div>Total Gas Chromat Out</div> <div>0 units 100</div> | | <div>Methane Out</div> <div>0.1 ppm 10000</div> | |  | SANDSTONE: It yel gy, lse, med-v crse, subang-subrmd, tr wh frm Silcrete |
| <div>WOB</div> <div>30 Klb 0</div> | | | | | <div>Carbon Dioxide Out</div> <div>0 units 100</div> | | <div>Ethane Out</div> <div>0.1 ppm 10000</div> | | | |
| <div>ROP based on Drillers Estimation from 1-248m</div> | | | | | <div>Total Gas Sensor</div> <div>0 units 100</div> | | <div>Propane Out</div> <div>0.1 ppm 10000</div> | | | |
| | | | | | | | <div>Iso-Butane Out</div> <div>0.1 ppm 10000</div> | | | |
| | | | | | | | <div>N-Butane Out</div> <div>0.1 ppm 10000</div> | | | |
| | | | | | | | | | 12.25" Conductor hole TD @15m on 03 Dec 2009 @ 1500hrs | |

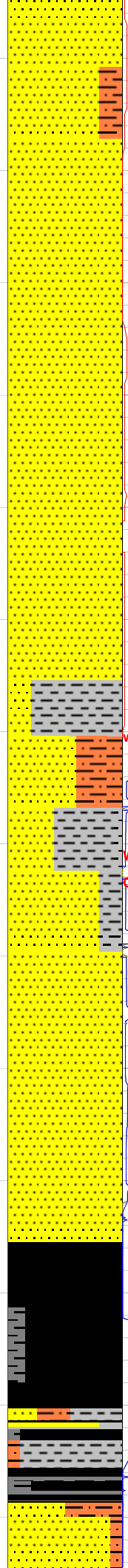








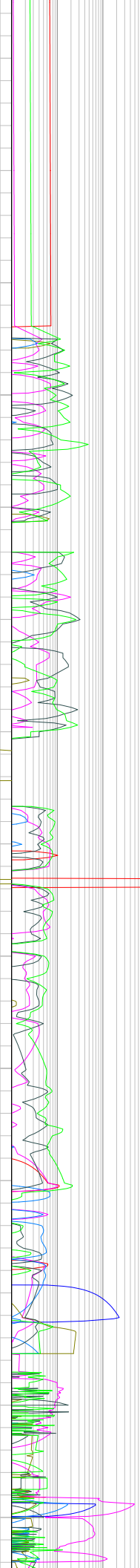
440
450
460
470
480
490
500
510
520
530
540
550
560
570



work on chromatograph

Work on chromatograph

Calibrate Gas Equipment



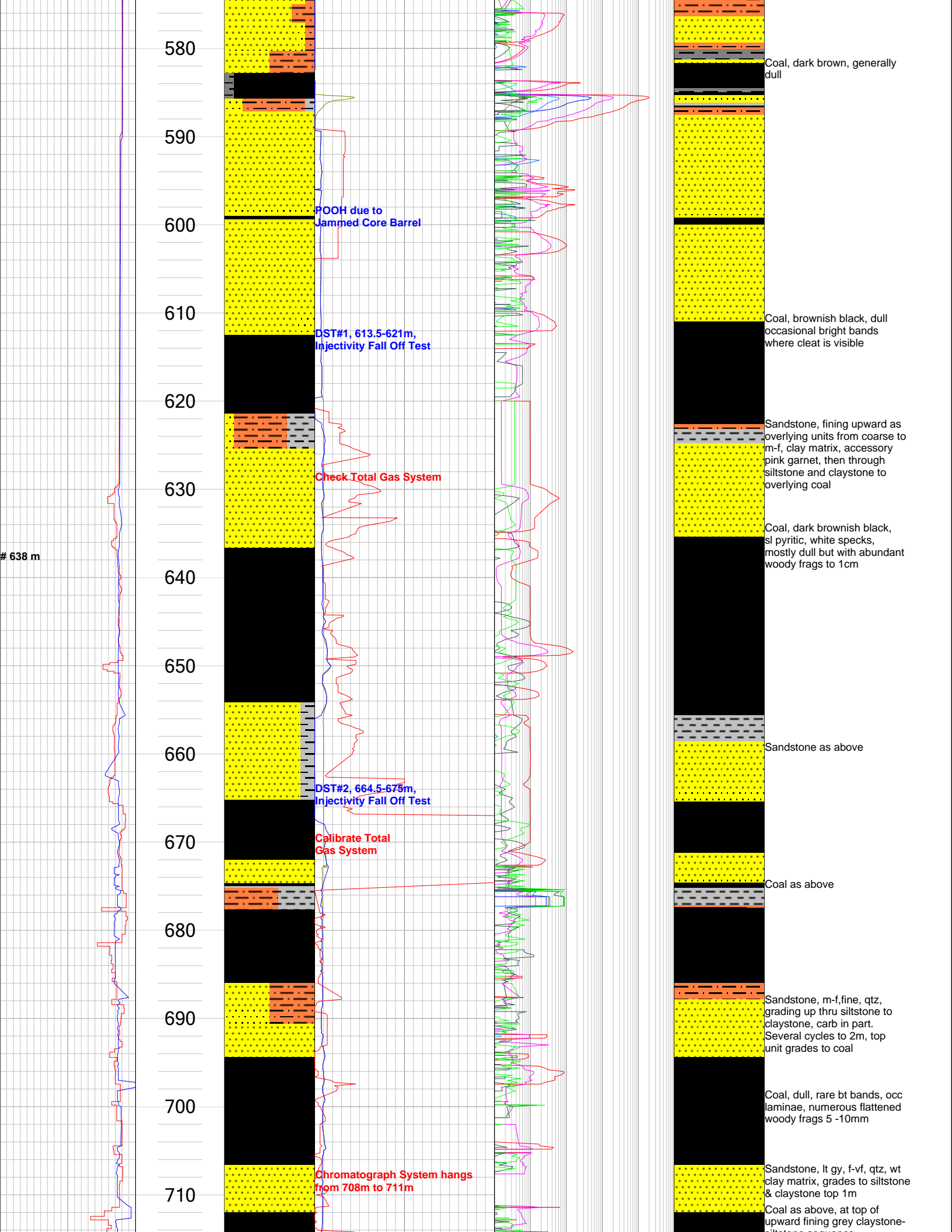
6 1/8" section TD
@ 501.9m on
12.Dec.2009 @ 1220hrs

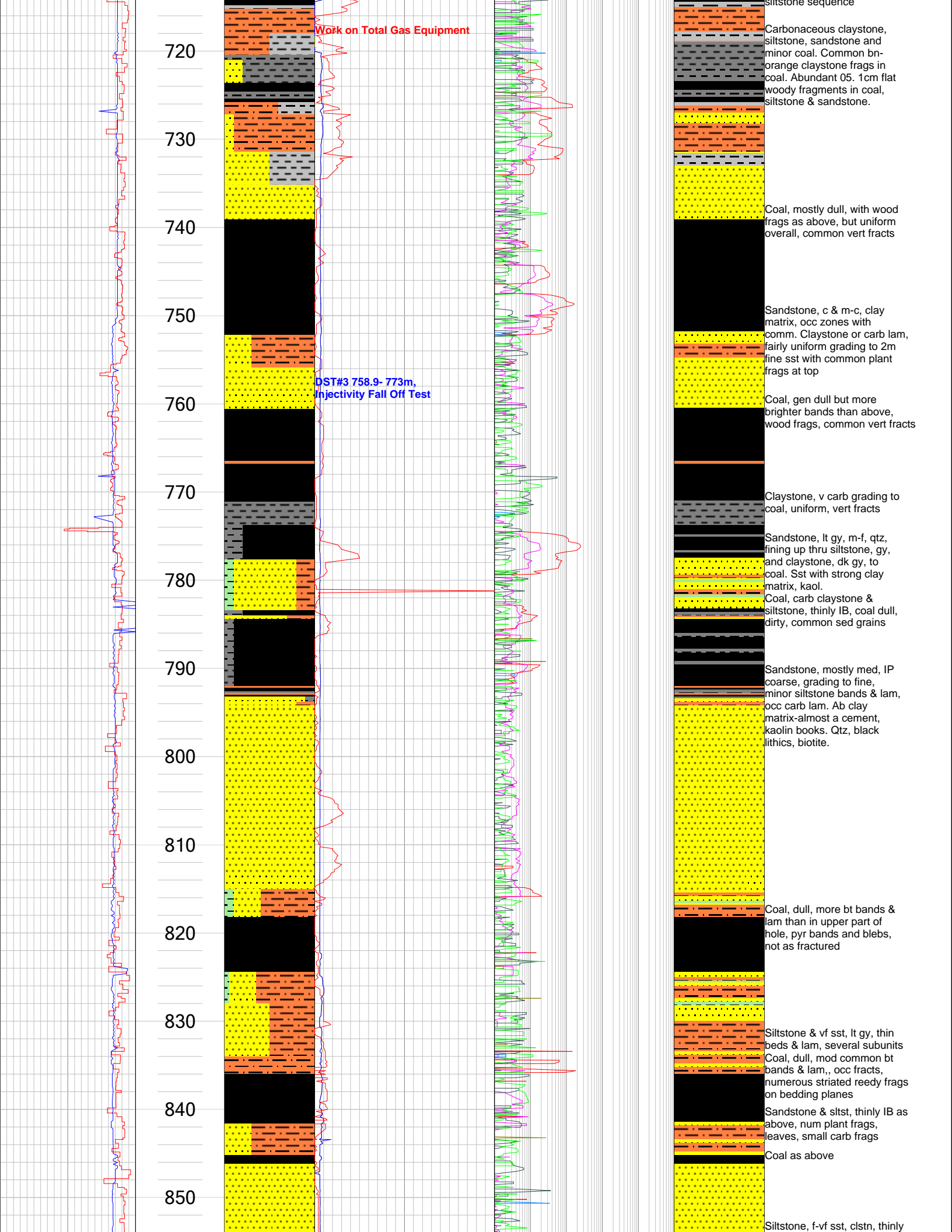
SANDSTONE: lt gry, fri, med, subang to ang, tr mica, exc vis por, w/finely interbedded claystone and siltstone, com thin coaly laminae

SANDSTONE: lt gry, fri, predom med, well srted, 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





860

870

880

890

900

910

920

930

940

950

960

970

Check and work on
Total Gas Equipment

Well CBM-93-004 TD @ 978m
on 31 December 2009
@ 19:30 hrs

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 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
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

Sandstone, m gy, f, silty, IP
lam, 0.55m coal, bt & dull,
at top

Coal, bright & dull, lam & sl
fissile, soft

Coal, soft, dull & brt, mostly
dull and uniform, slightly
fissile, fractured

Sandstone, mostly lt gy, c-m,
qtz-felds, soft white clay mx,
weak por in part, thin bedded,
coal or wood frags, passing
upward to Sst, thin bedded,
fine, with siltstone & claystone
lam

Interbedded coal, dull & bt
and carb claystone in beds
0.3-0.7m thick, separated
by bands of dk gy claystone,
lt gy claystone and lt gy fine
sandstone.