

# BLANCO

Geological Services LLC

Scale 1:240 (5"=100') Imperial

Well Name: Summers 21-19  
Location: NE/NW Sec 19 T32S R65W  
Licence Number: 05-071-08315-00  
Spud Date: 10/13/05  
Surface Coordinates: 900' FNL 1950' FWL

Las Animas County  
Region: Purgatoire River  
Drilling Completed: 10/14/05

## Bottom Hole Coordinates:

Ground Elevation (ft): 7252'      K.B. Elevation (ft): 7256'  
Logged Interval (ft): 837'      To: 1920'      Total Depth (ft): 1920'  
Formation: Raton / Vermejo / Trinidad  
Type of Drilling Fluid: Air / Mist

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: Pioneer Natural Resources USA, Inc.  
Address: 1401 17th Street Suite 1200  
Denver CO 80202

## GEOLOGIST

Name: Robert Wick / Julian Atencio  
Company: BLANCO Geological Services LLC  
Address: 806 Robinson  
Trinidad CO 81082  
(719) 846-3364

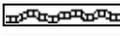
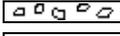
## Rig

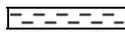
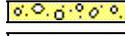
Pense Rig #22

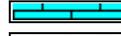
## Comments

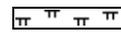
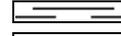
8 5/8" #24 Surface Casing set to 563.35'

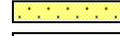
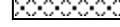
## ROCK TYPES

 Anhy  
 Bent  
 Brec  
 Cht

 Clyst  
 Coal  
 Congl  
 Dol

 Gyp  
 Igne  
 Lmst  
 Meta

 Mrlst  
 Salt  
 Shale  
 Shcol

 Shgy  
 Sltst  
 Ss  
 Till

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Sltstrg
- Ssstrg

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

- Cv-v
- Cv-c

#### INTERVALS

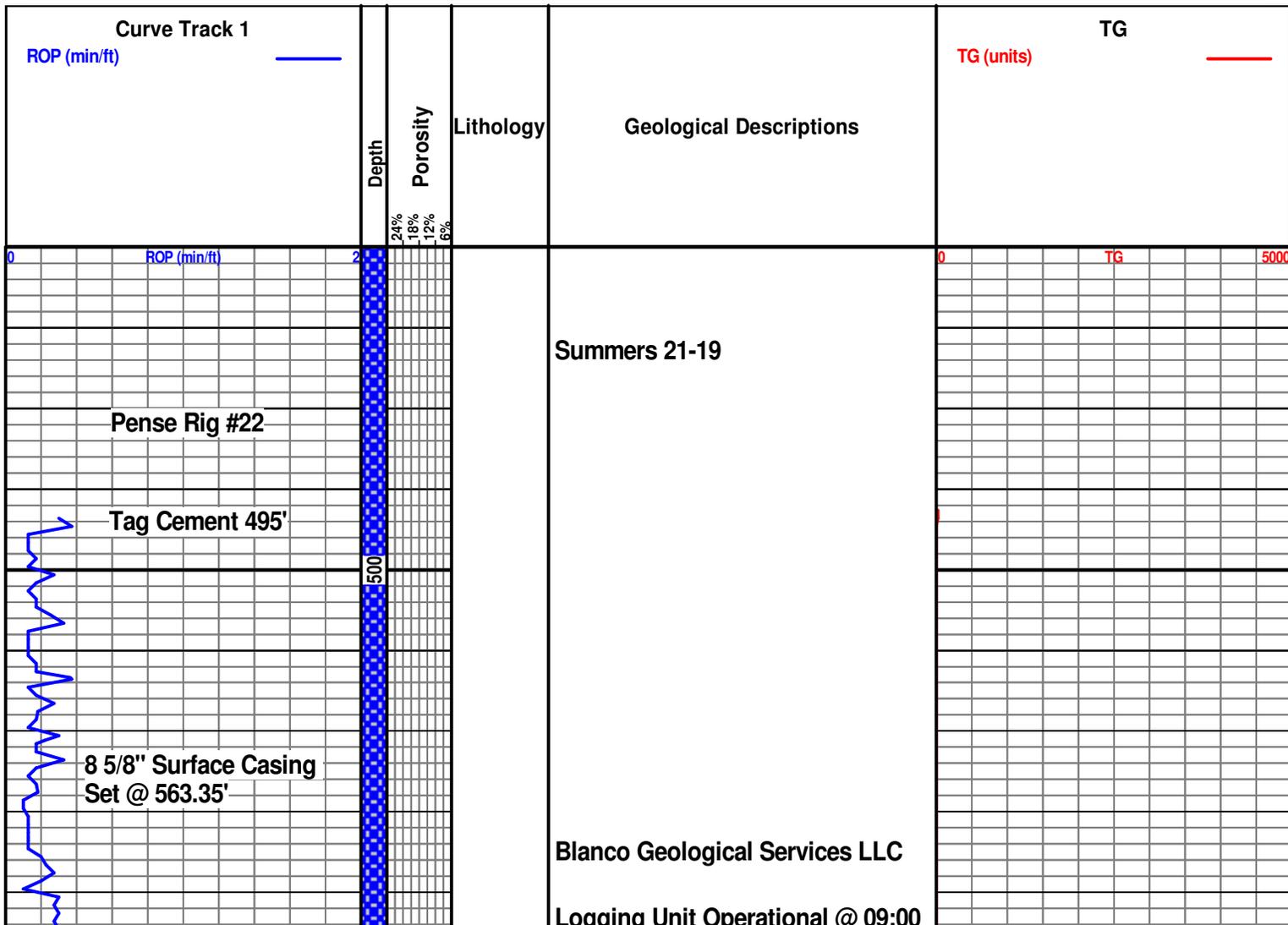
- Core
- Dst
- Srfcsg

#### EVENTS

- Rft
- Sidewall
- Srfcsg

#### OIL SHOWS

- Even



9:30 10/14/2005

Drilling New Formation  
from 573' w/ Air Hammer

10/14/2005

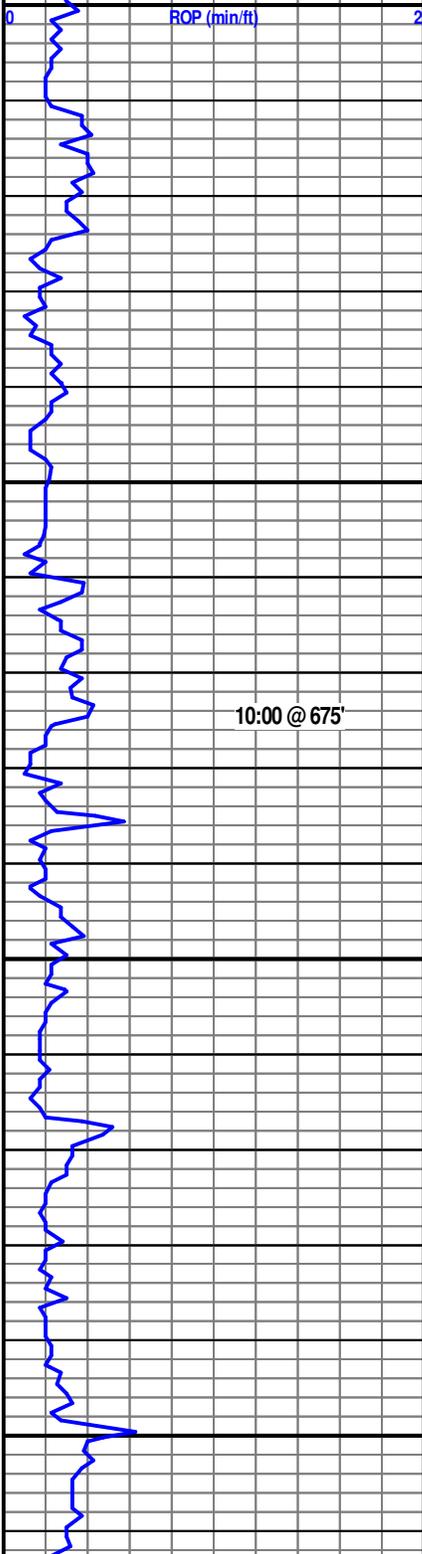
Began Sampling @ 585'

Raton Formation

TG Scale 0 - 5,000 Units

MSI Model TG Total  
Hydrocarbon CCD/TCD

550  
600  
650  
700  
750



SANDSTONE, gray, vfg, sub angular - sub rounded, well sorted, well consolidated

SHALE, gray, firm, sub blocky - sub platy, gritty sandy, dull

SHALE, lt-gray, firm, sub blocky - sub platy, gritty - sandy, dull, SANDSTONE stringers

COAL, black, firm brittle, irregular, blocky, smooth, waxy

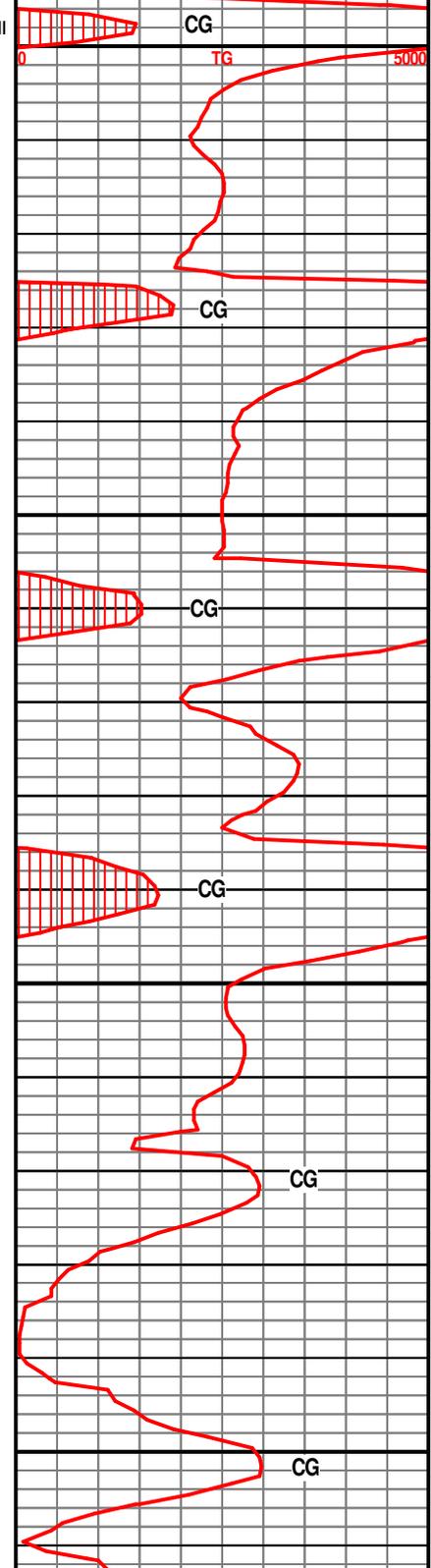
COAL, black, firm brittle, irregular, blocky, smooth, waxy

SHALE, gray, firm, sub blocky - sub platy, gritty, dull

SHALE, brown, firm, platy - blocky, earthy - velvety, dull

ROP (min/ft)

10:00 @ 675'



CG

TG

5000

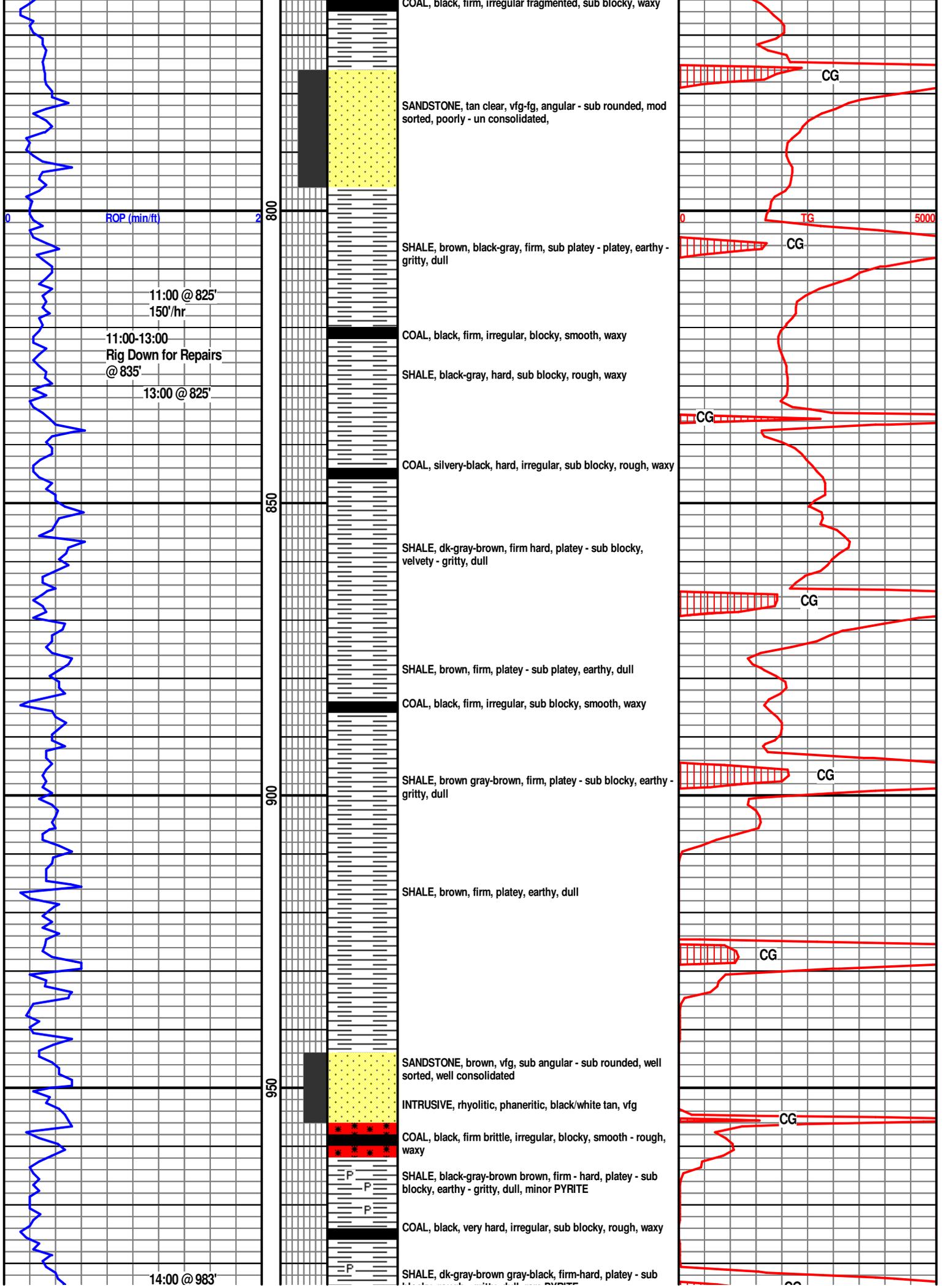
CG

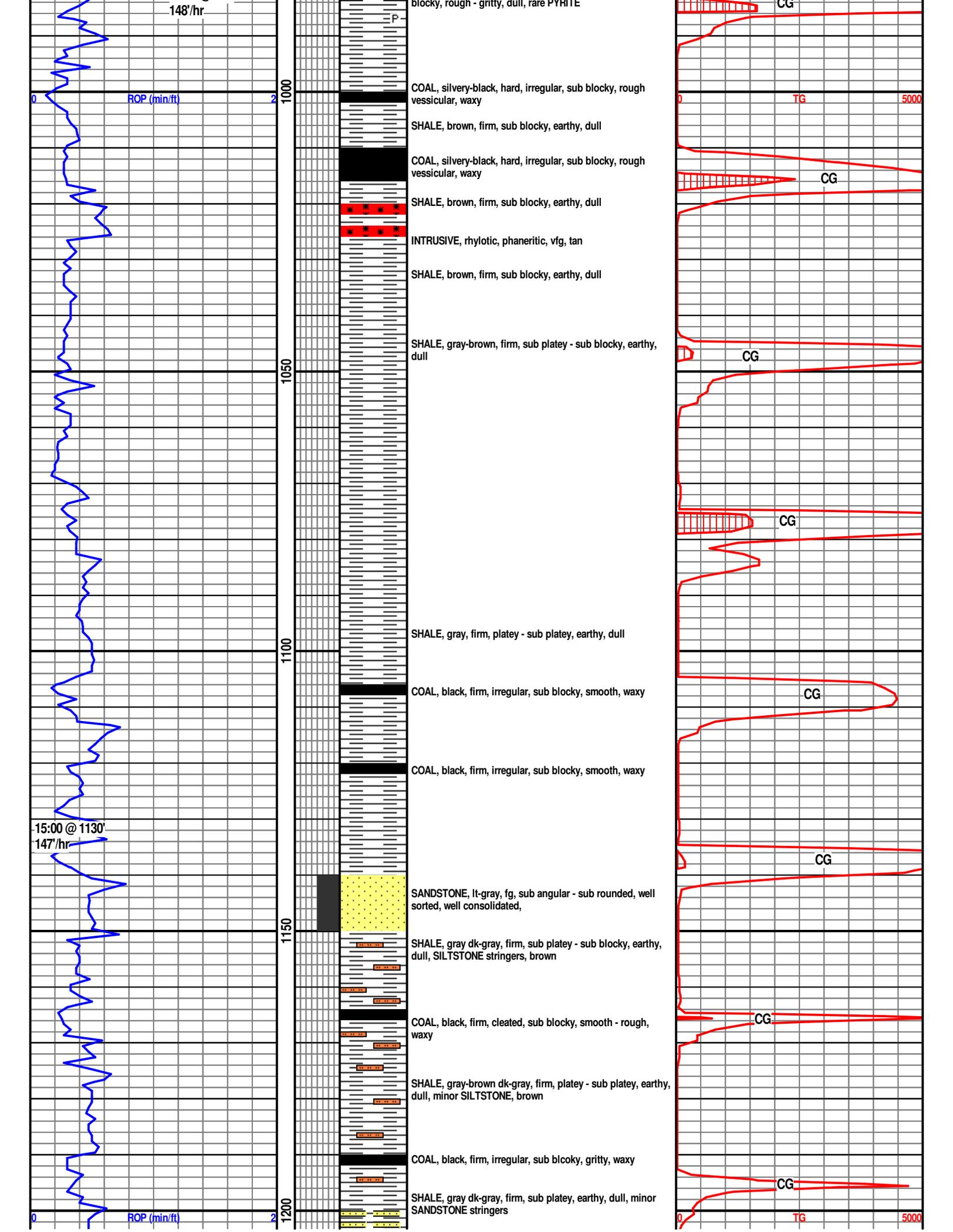
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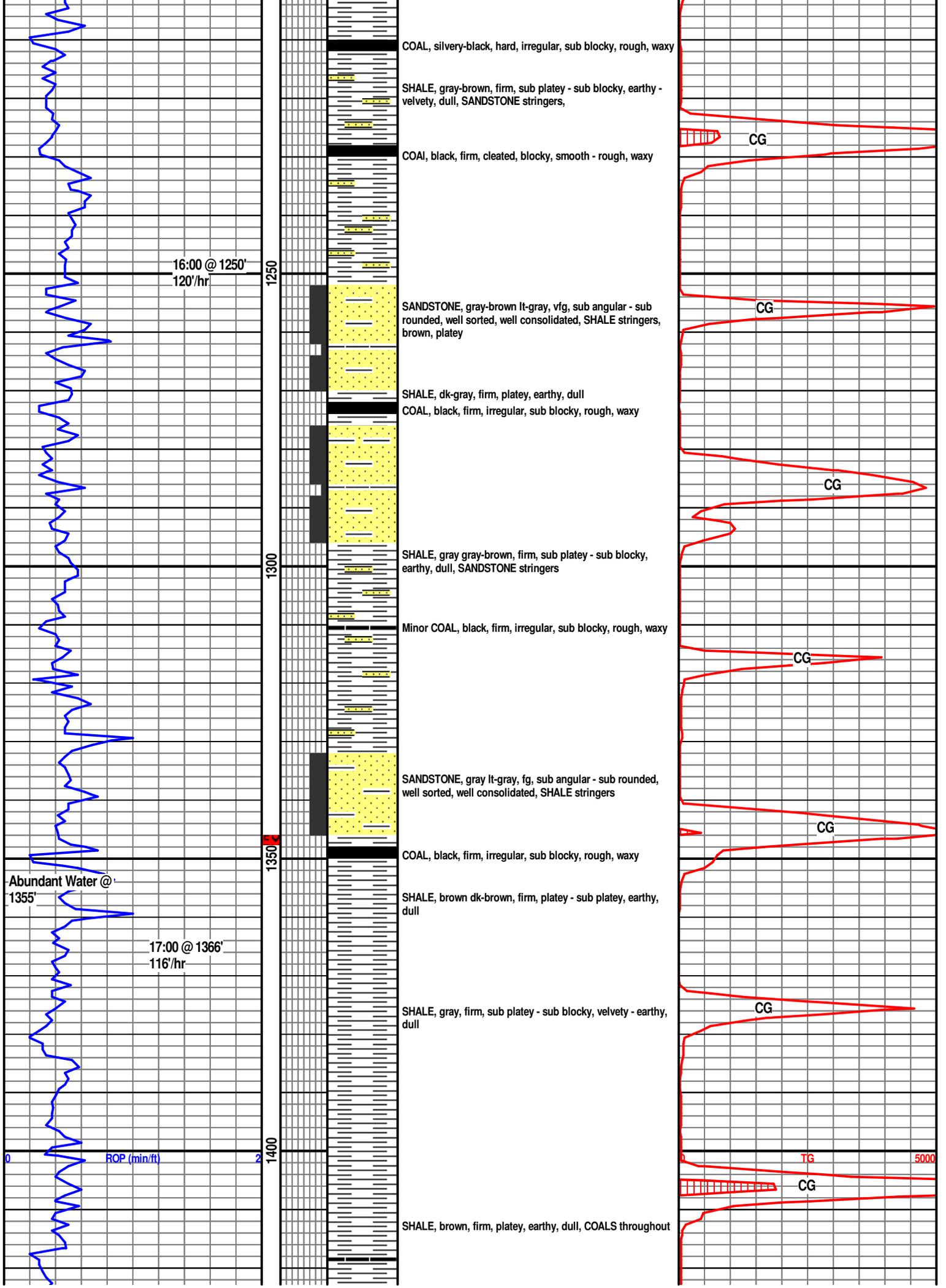
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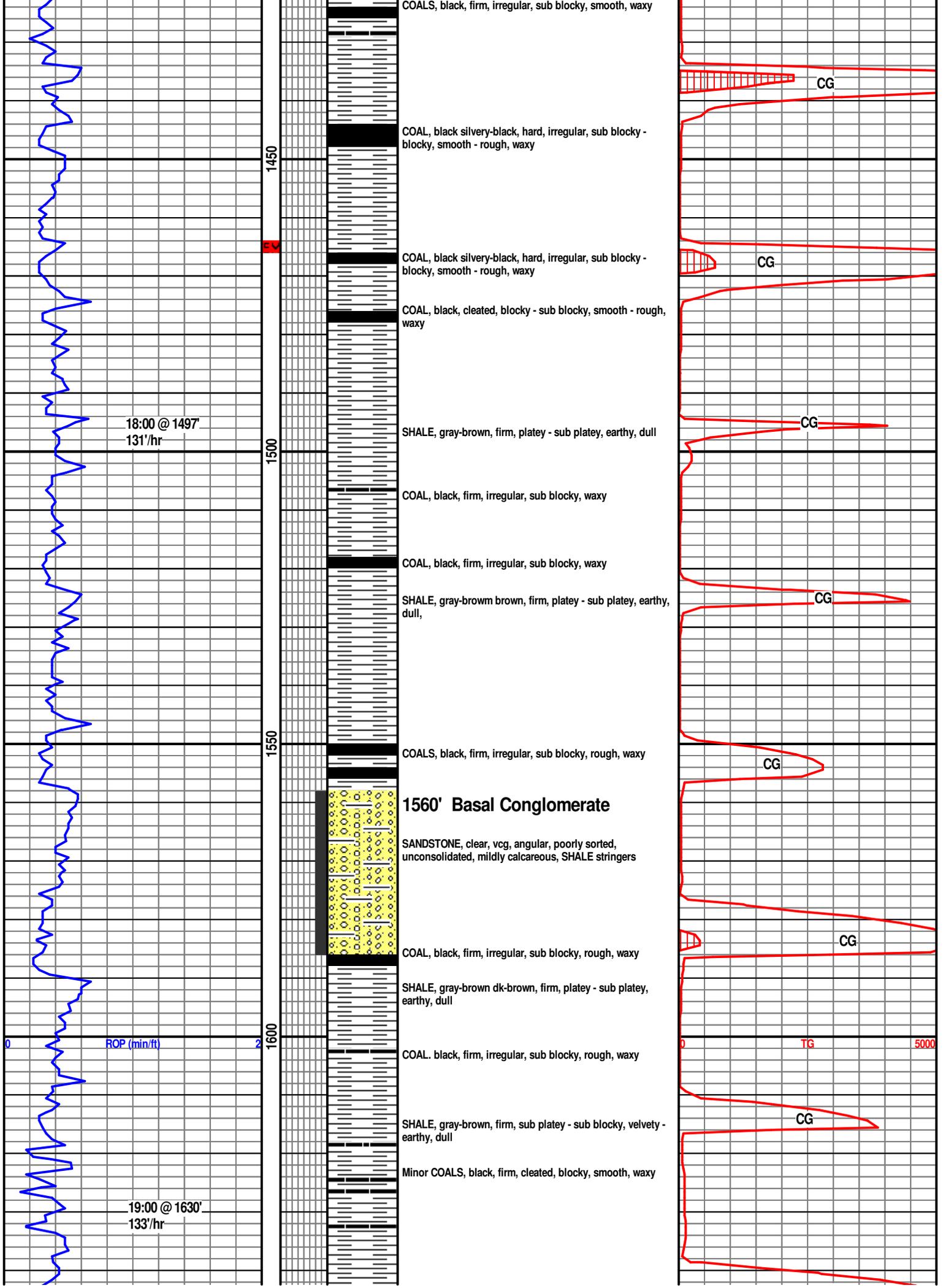
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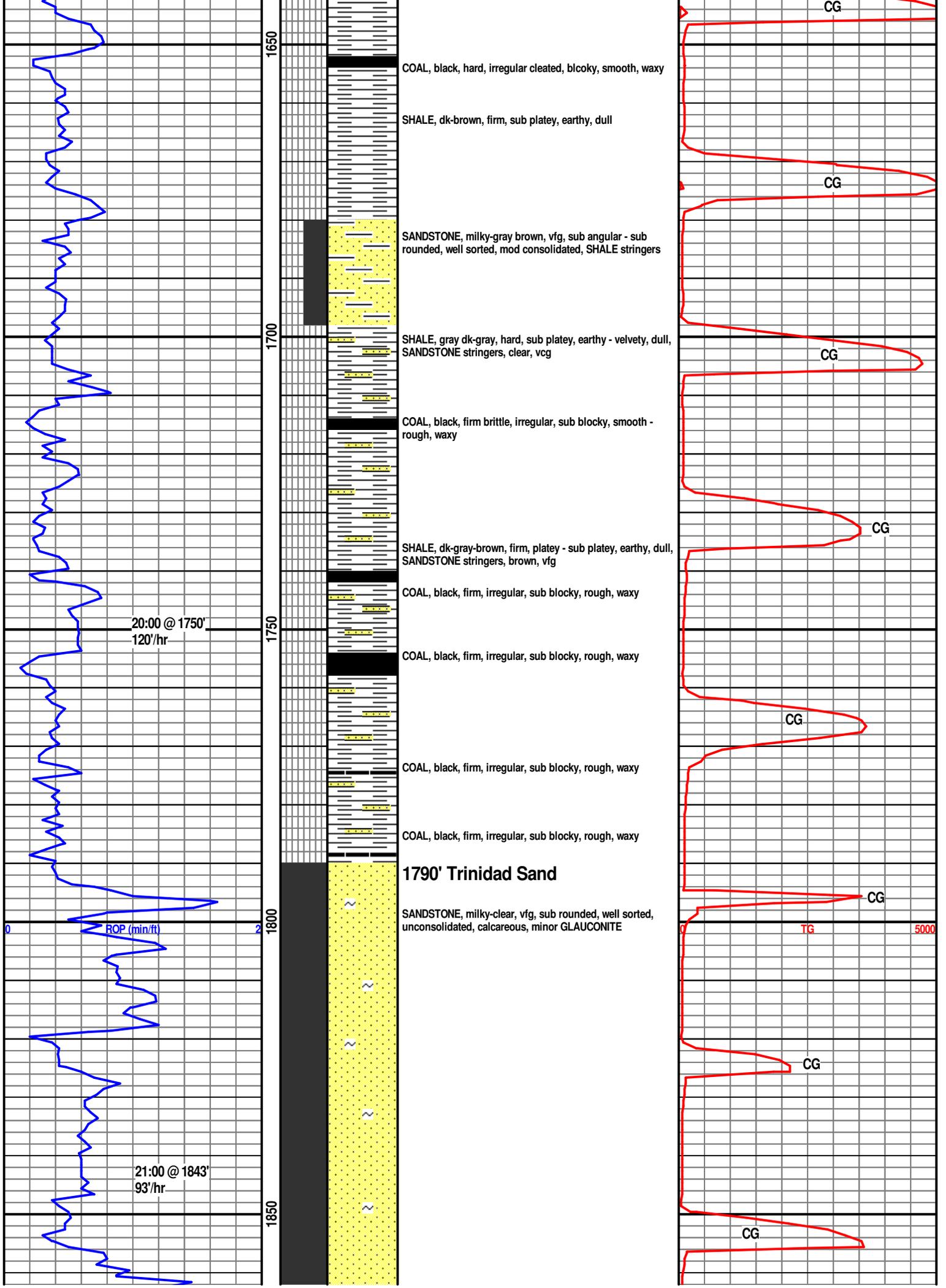
CG











22:00 @ 1895'  
52'/hr

1900

TD 1920'  
22:30 10/14/05

SANDSTONE, clear lt-gray, vfg, sub angular - sub rounded,  
well sorted, unconsolidated

Summers 21-19

CG

CG