

# BLANCO

Geological Services LLC

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

Well Name: Mitotes Lake 24-15  
Location: SE/SW Sec 15 T31S R66W  
Licence Number: 05-071-08396-00  
Spud Date: 8/01/05  
Surface Coordinates: 960 FSL 1916 FWL

Region: Purgatoire River  
Drilling Completed: 8/03/05

## Bottom Hole Coordinates:

Ground Elevation (ft): 7104'      K.B. Elevation (ft): 7108'  
Logged Interval (ft): 750'      To: 2160'      Total Depth (ft): 2160'  
Formation: Raton / Vermejo / Trinidad  
Type of Drilling Fluid: Air/Mist, Mud Motor

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## OPERATOR

Company: Pioneer Natural Resources USA Inc.  
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Denver CO 80202

## GEOLOGIST

Name: Robert Wick  
Company: BLANCO Geological Services LLC  
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Trinidad CO 81082  
(719) 846-3364

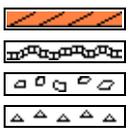
## Rig

Pense #18

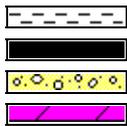
## Comments

8 5/8" #24 Surface Casing set to 752.65 ft

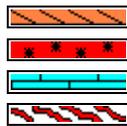
## ROCK TYPES



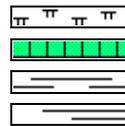
Anhy  
Bent  
Brec  
Cht



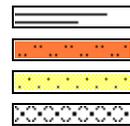
Clyst  
Coal  
Congl  
Dol



Gyp  
Igne  
Lmst  
Meta

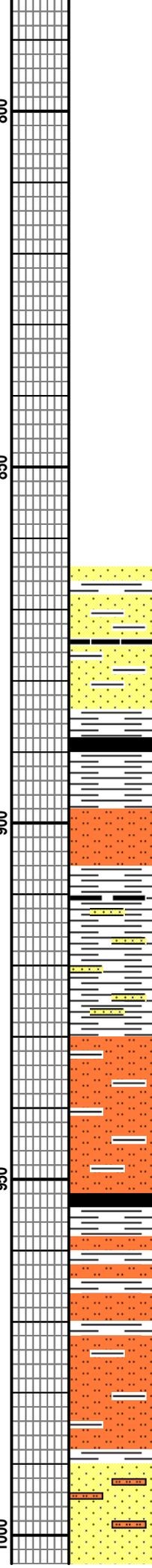
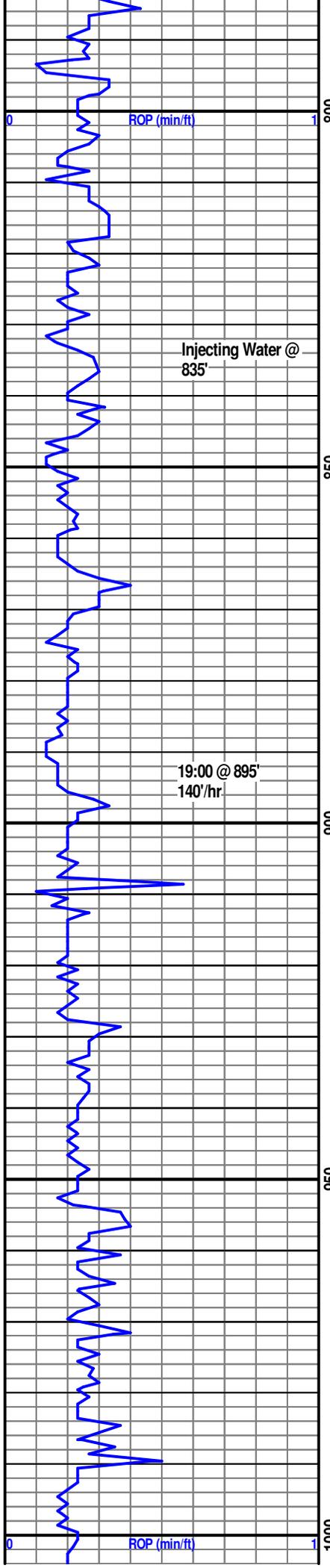


Mrlst  
Salt  
Shale  
Shcol



Shgy  
Sltst  
Ss  
Till





**Began Sampling @ 865'  
Raton Formation**

SANDSTONE, lt-gray milky-white brown, vfg - fg, sub angular - sub rounded, mod sorted, mod consolidated, mildly calcareous, MICA and GLAUCONITE, SHALE stringers

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

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

SHALE, brown dk-brown, firm, sub blocky - sub platy, gritty earthy, dull

SILTSTONE, lt gray, well indurated, sub blocky, velvety, dull

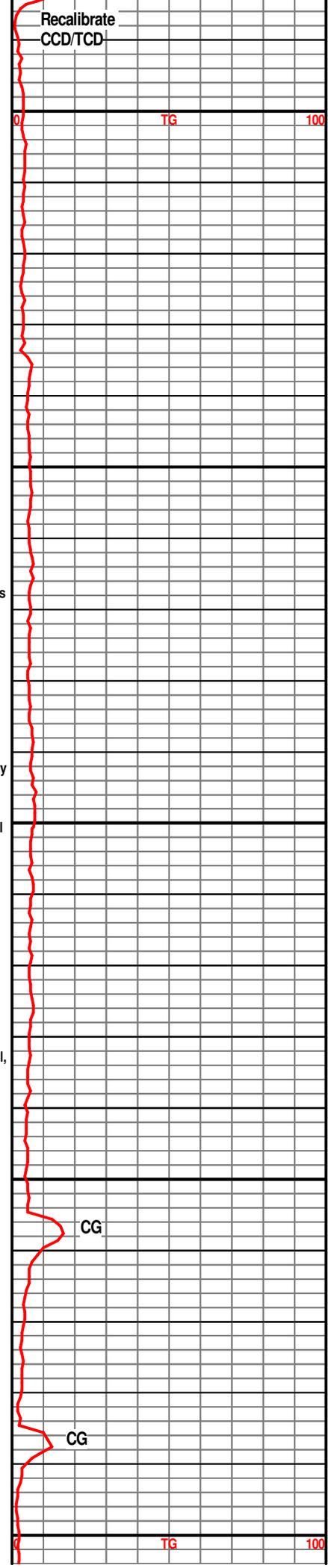
SHALE, brown dk-brown, firm, sub blocky - platy, earthy - gritty, dull, SANDSTONE stringers, minor COAL

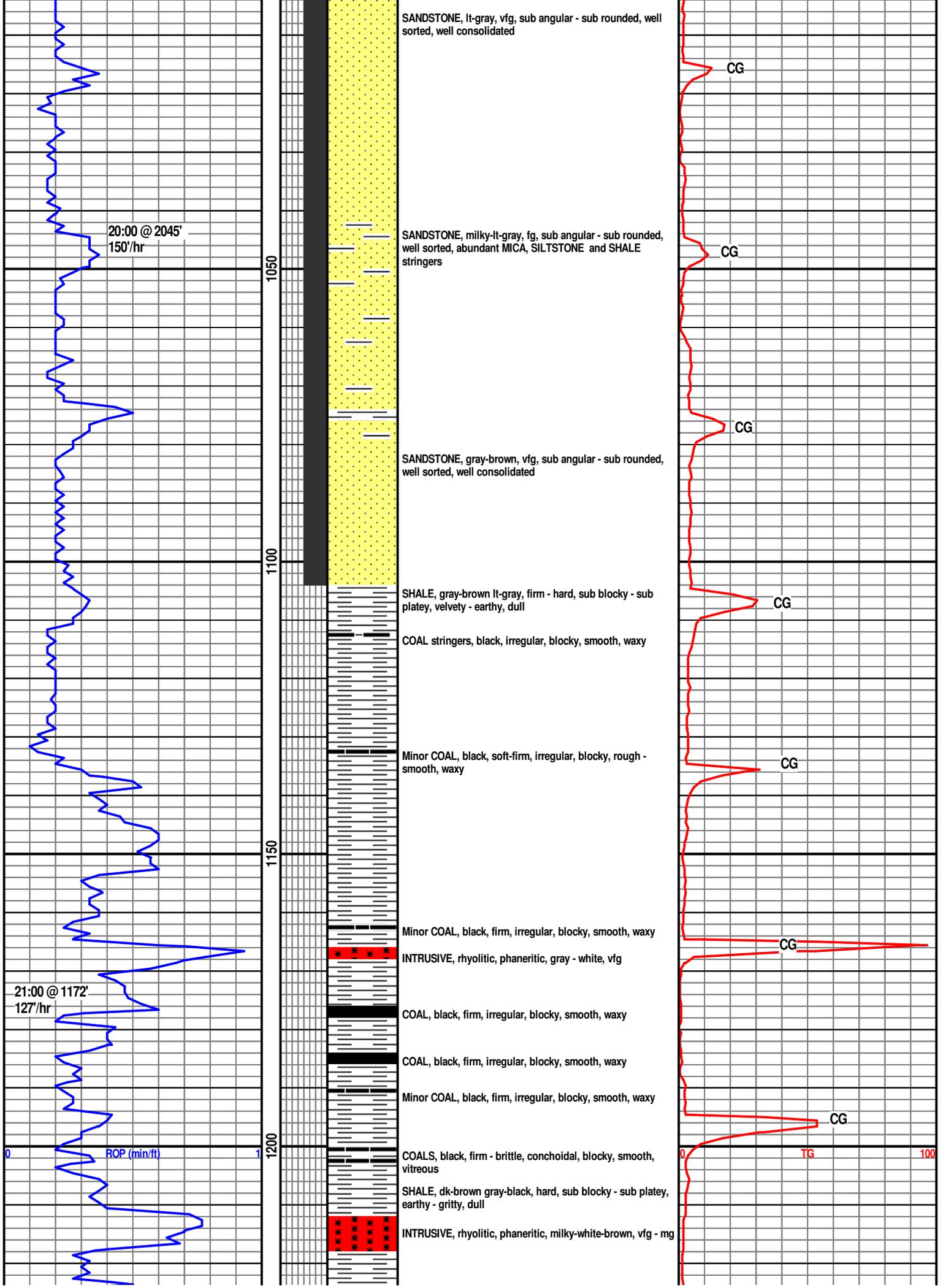
SILTSTONE, lt-gray, well indurated, sub blocky, velvety, dull, SHALE stringers

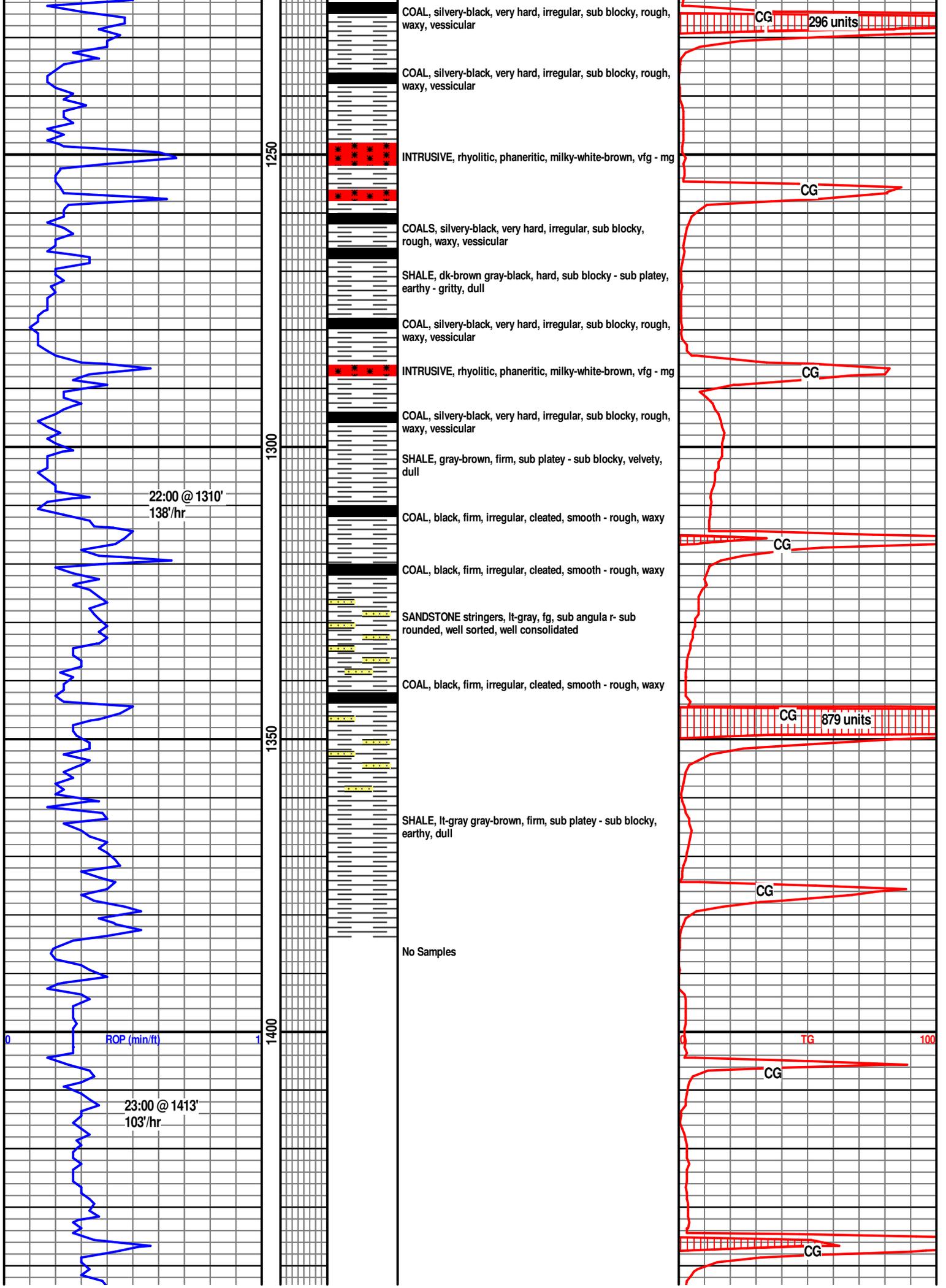
COAL, black, firm, conchoidal - irregular, blocky - flakey, smooth, waxy

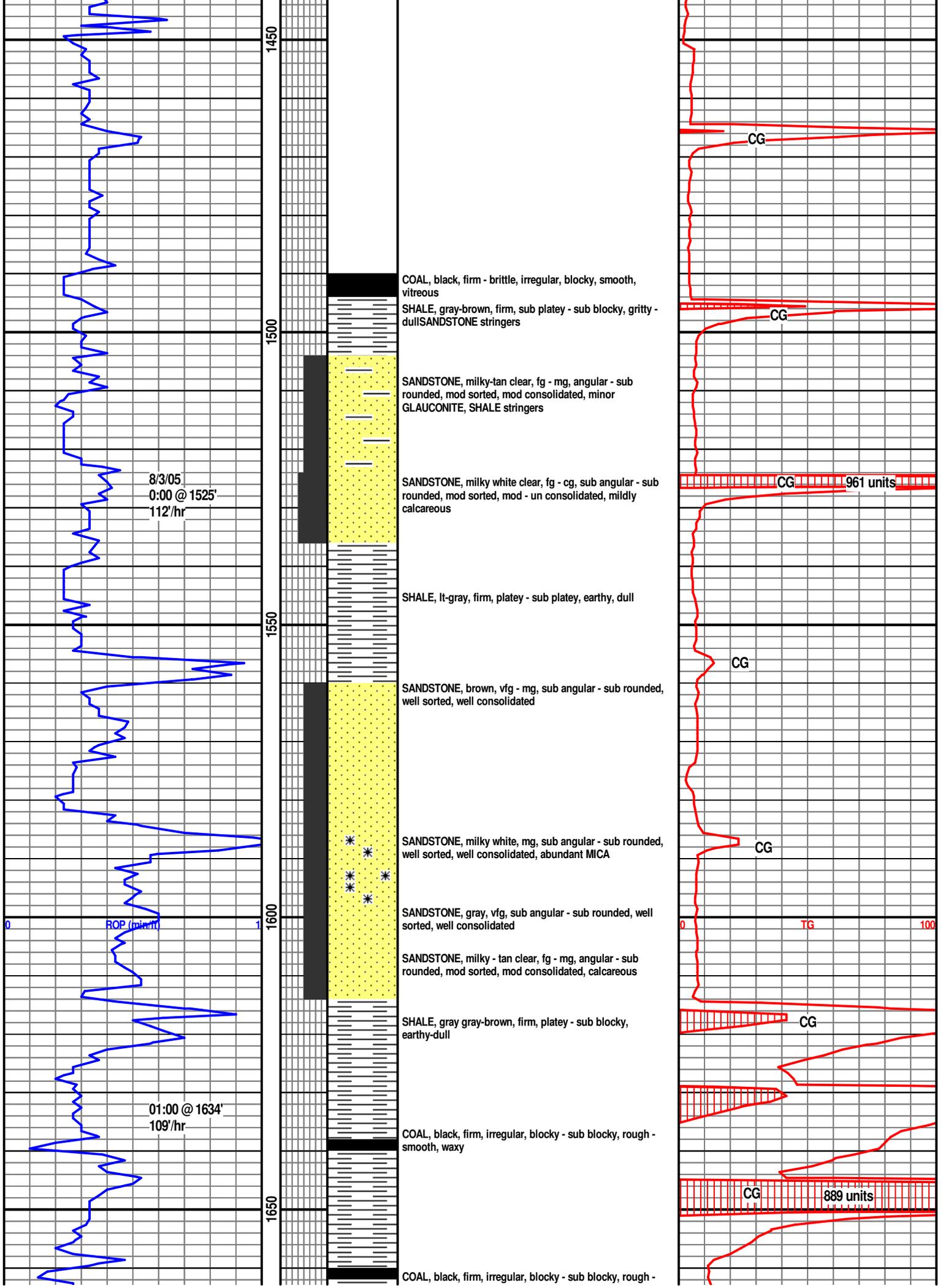
SHALES, brown, firm, platy, earthy, dull

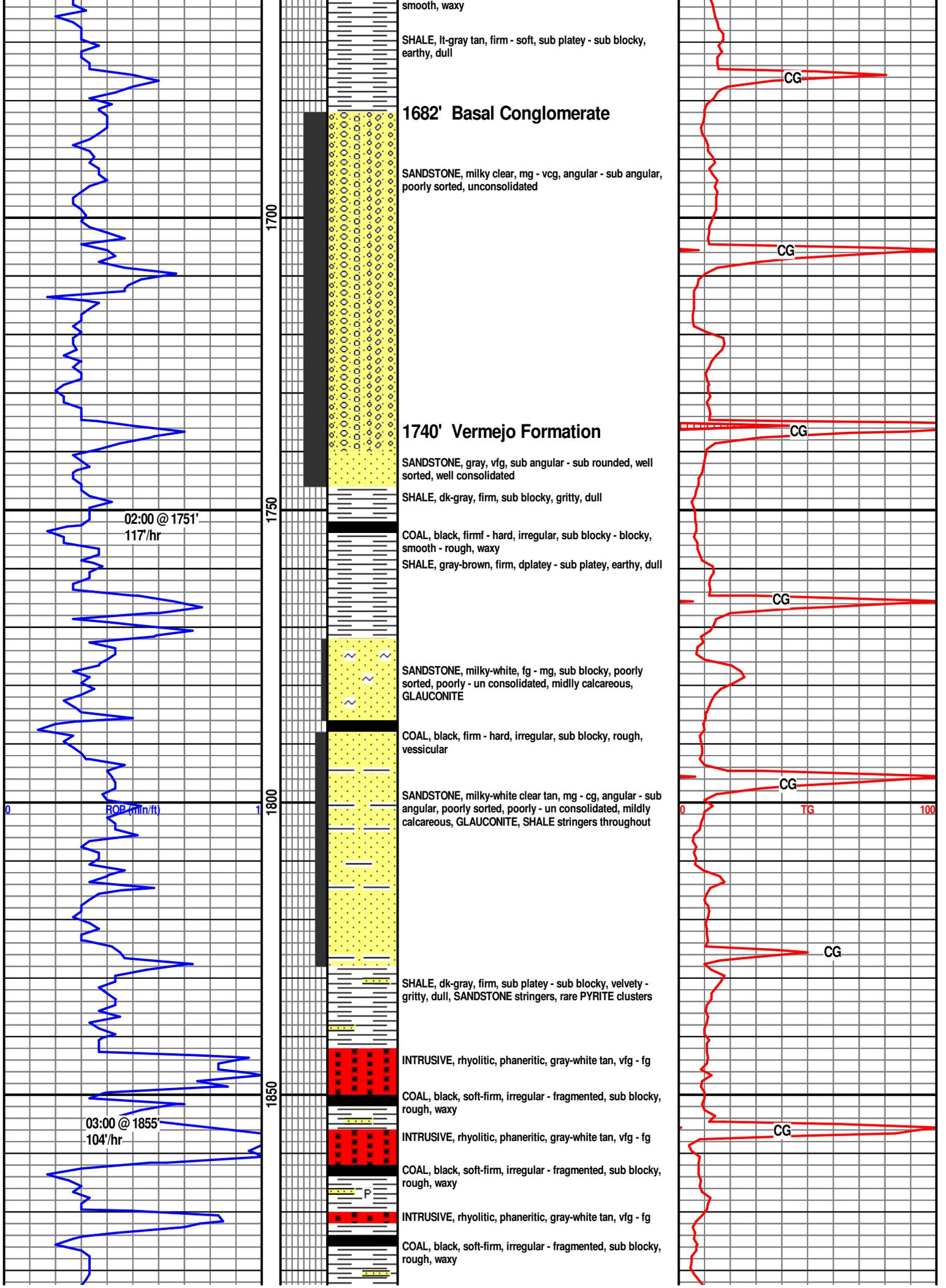
SANDSTONE, lt-gray, fg, sub angular - sub rounded, well sorted, well consolidated, SILTSTONE stringers, gray

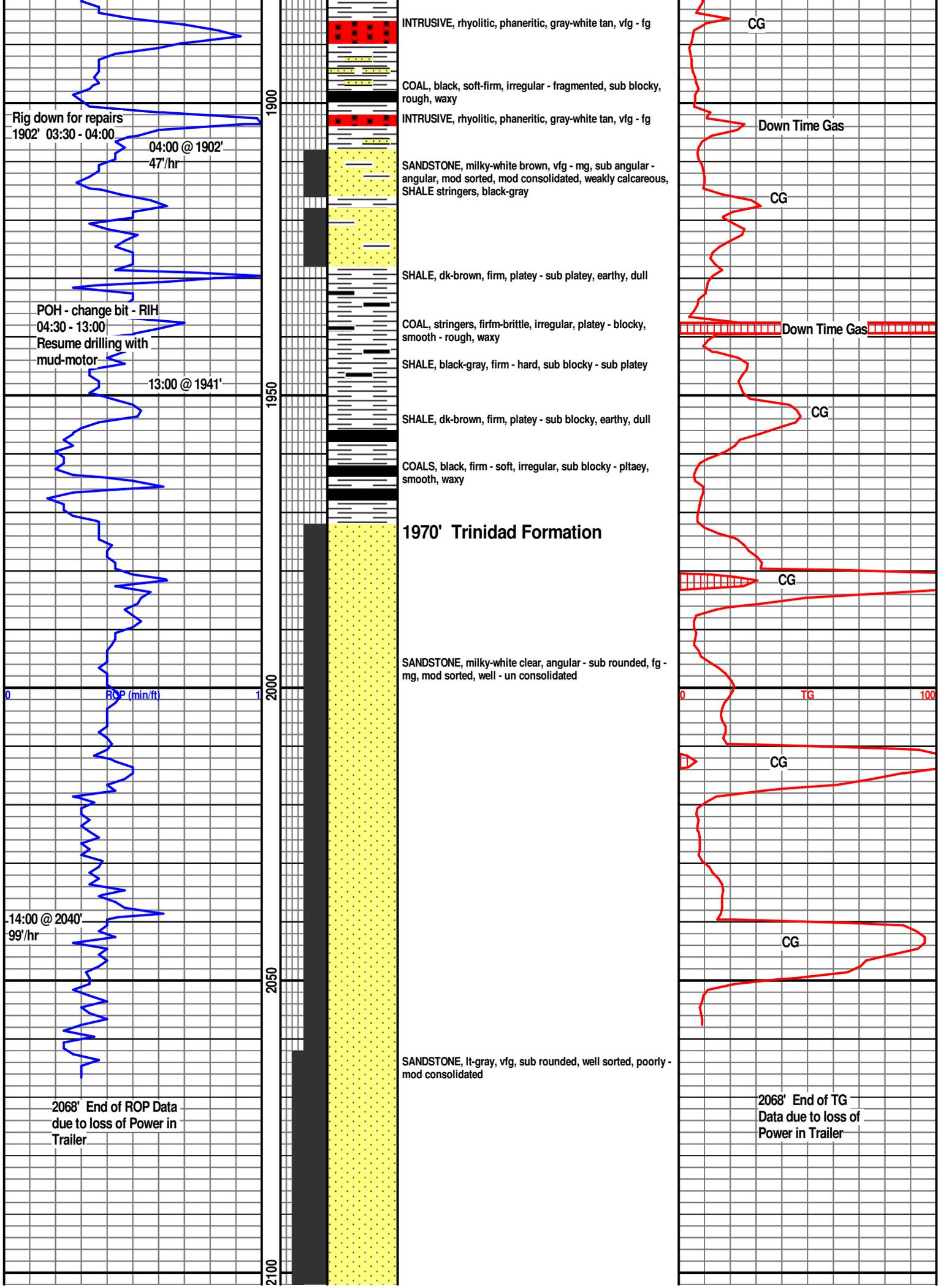












TD @ 2160'  
15:45 8/03/05

2150

Mitotes Lake 24-15