

BLANCO

Geological Services LLC

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

Well Name: Shadowland 33-24
Location: NW/SE Sec 24 T32S R68W
Licence Number: 05-071-08443-00
Spud Date: 9/04/05
Surface Coordinates: 1469' FSL 1575' FEL

Region: Purgatoire River
Drilling Completed: 9/06/05

Bottom Hole Coordinates:

Ground Elevation (ft): 8279' K.B. Elevation (ft): 8283'
Logged Interval (ft): 1465' To: 3100' Total Depth (ft): 3100'
Formation: Raton / Vermejo / Trinidad
Type of Drilling Fluid: Air/Mud

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
Company: BLANCO Geological Services LLC
Address: 806 Robinson
Trinidad CO 81082
(719) 846-3364

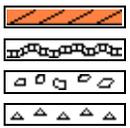
Rig

Pense #18

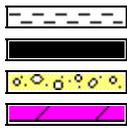
Comments

8 5/8" #24 Surface Casing set to 1444.46 ft

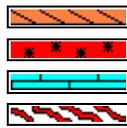
ROCK TYPES



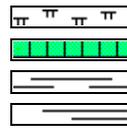
Anhy
Bent
Brec
Cht



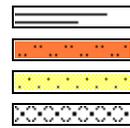
Clyst
Coal
Congl
Dol



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

- Spotted
- Ques
- Dead

INTERVALS

- Core
- Dst
- Srfcsg

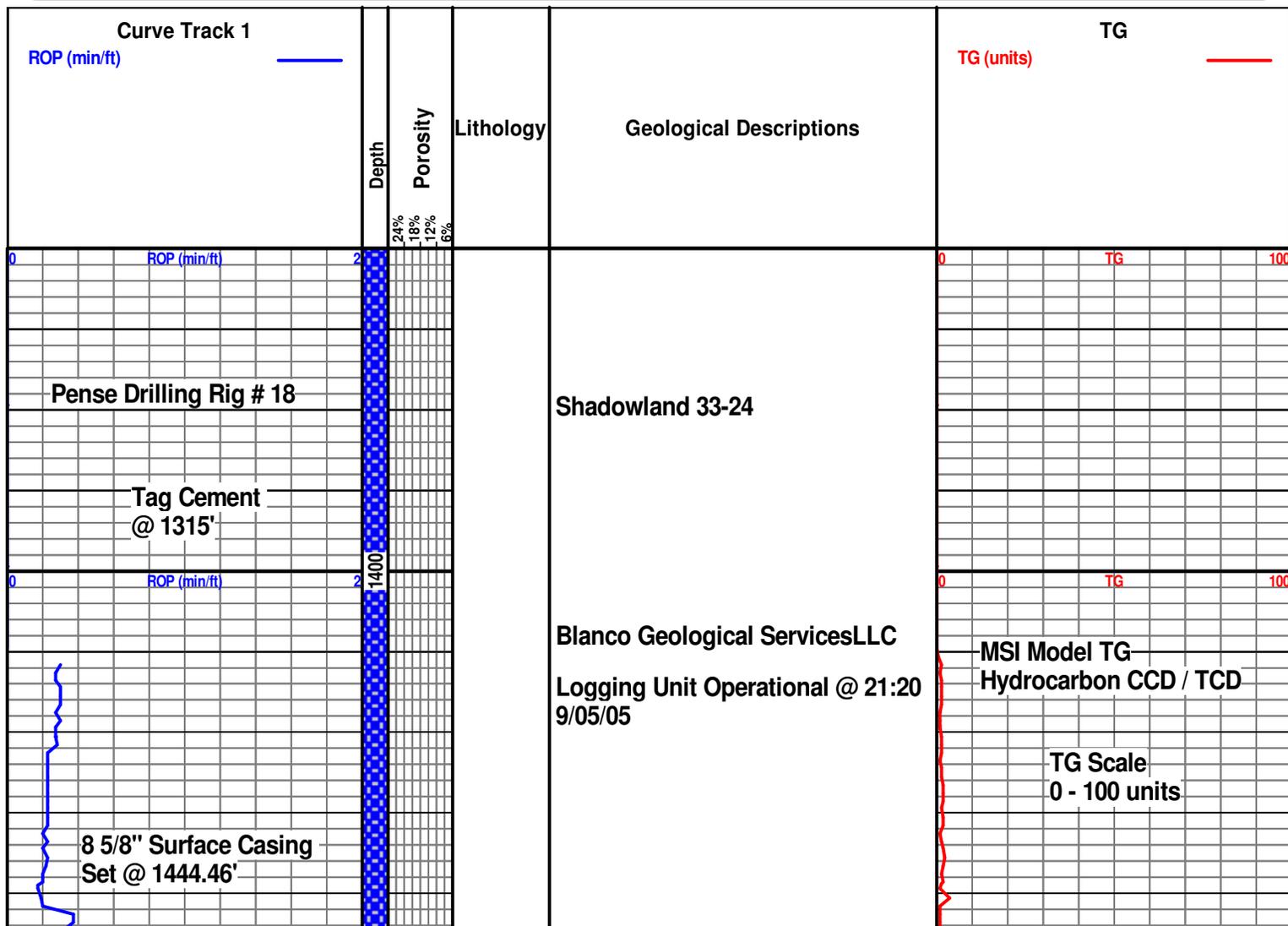
- Cv-v
- Cv-c

EVENTS

- Rft
- Sidewall
- Srfcsg

OIL SHOWS

- Even



21:35 9/05/2005
Began Drilling Formation
from 1465' w/ mud Motor
and Tri-Cone

1450
1500
1550
1600
1650

Raton Formation

Began Sampling @ 1470'

SANDSTONE, milky-lt-gray, vfg, sub angular - sub rounded,
well sorted, well consolidated, calcareous

SANDSTONE, milky-tan lt-gray gray, vfg - mg, angular - sub
rounded, mod sorted, mod-well consolidated, calcareous

COAL, black, hard, irregular, blocky, smooth - rough, waxy

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

COAL, black, hard, irregular, blocky, smooth - rough, waxy

SHALE, lt-gray, firm, platy - blocky, earthy, dull

SANDSTONE, milky-white-tan, vfg - fg, angular - sub
rounded, mod sorted, mod consolidated, strongly
calcareous, SHALE stringers

SANDSTONE, lt-gray, vfg, sub angular - sub rounded, well
sorted, well consolidated, SHALE stringers, lt-gray

SANDSTONE, milky-white tan, vfg-fg, sub angular - sub
rounded, mod sorted, mod - poorly consolidated,
calcareous, MICA, SHALE stringers

SANDSTONE, milky clear tan, fg - cg, angular - sub angular,
poorly sorted, mod - un consolidated, CALCITE

SANDSTONE, milky-clear, mg-vcg, sub angular, poorly
sorted, unconsolidated

22:00 @ 1500'

23:00 @ 1580'
80'/hr

ROP (min/ft)

24:00 @ 1660'
80'/hr

CG
192 Units

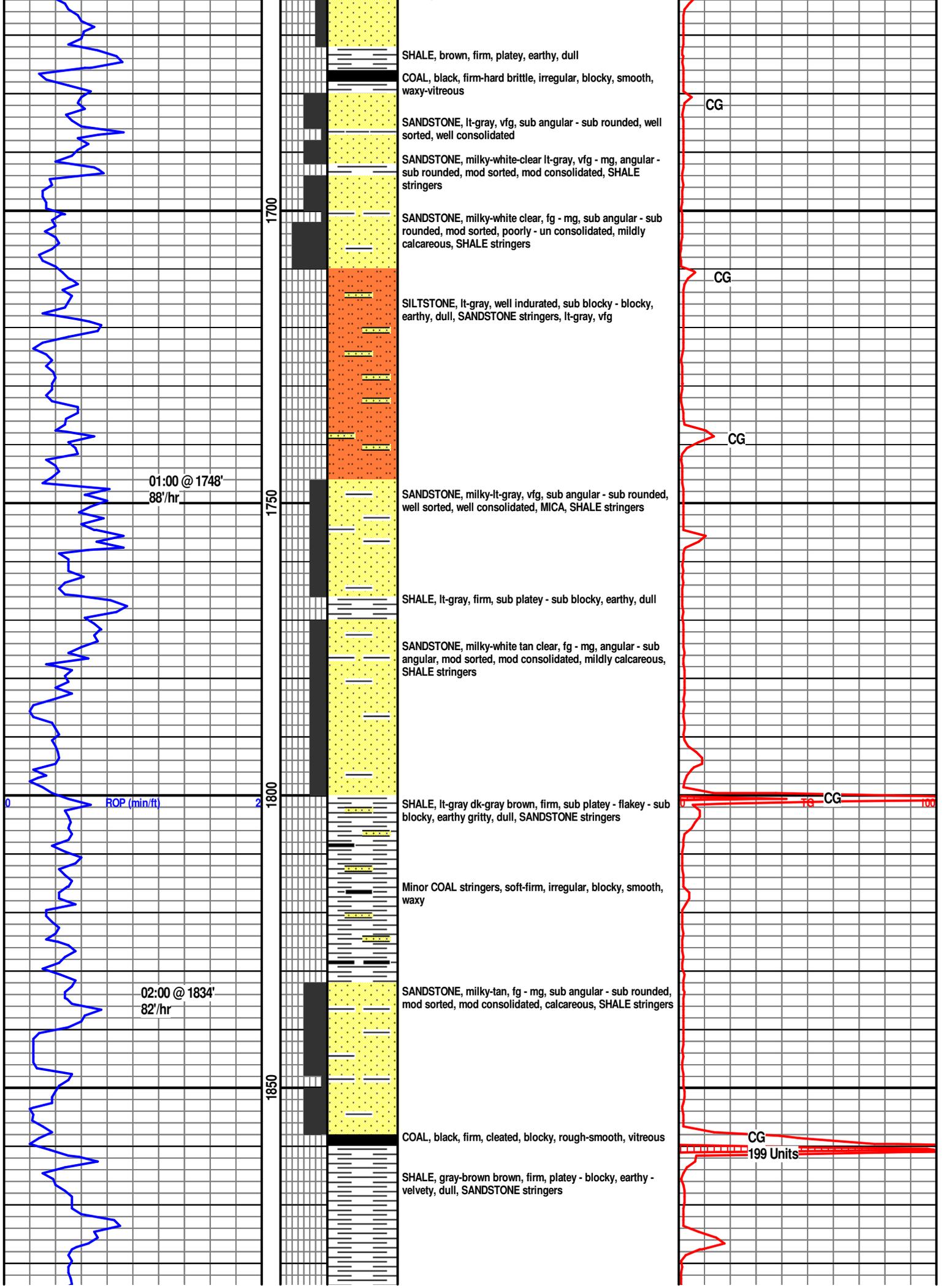
CG

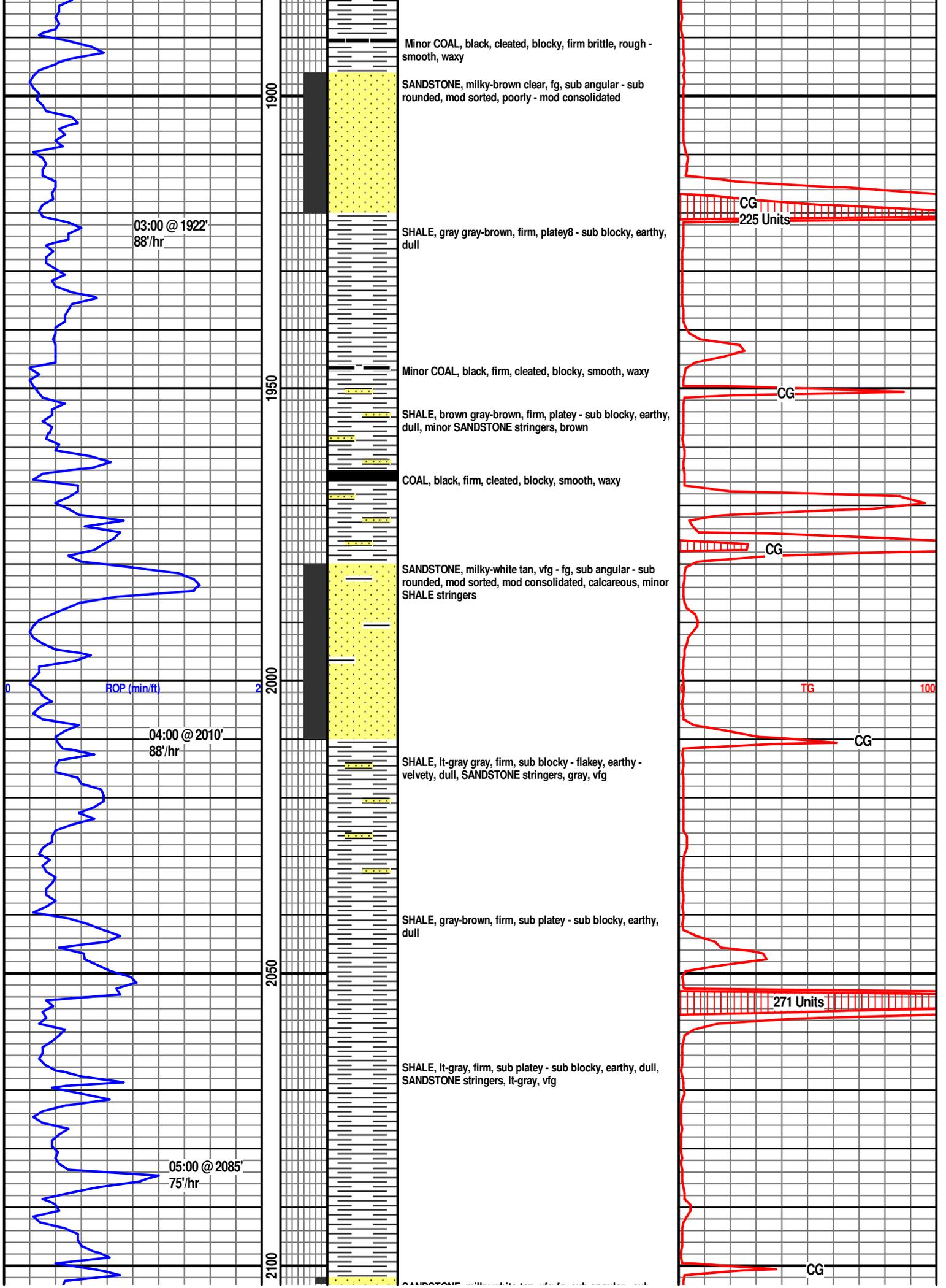
CG

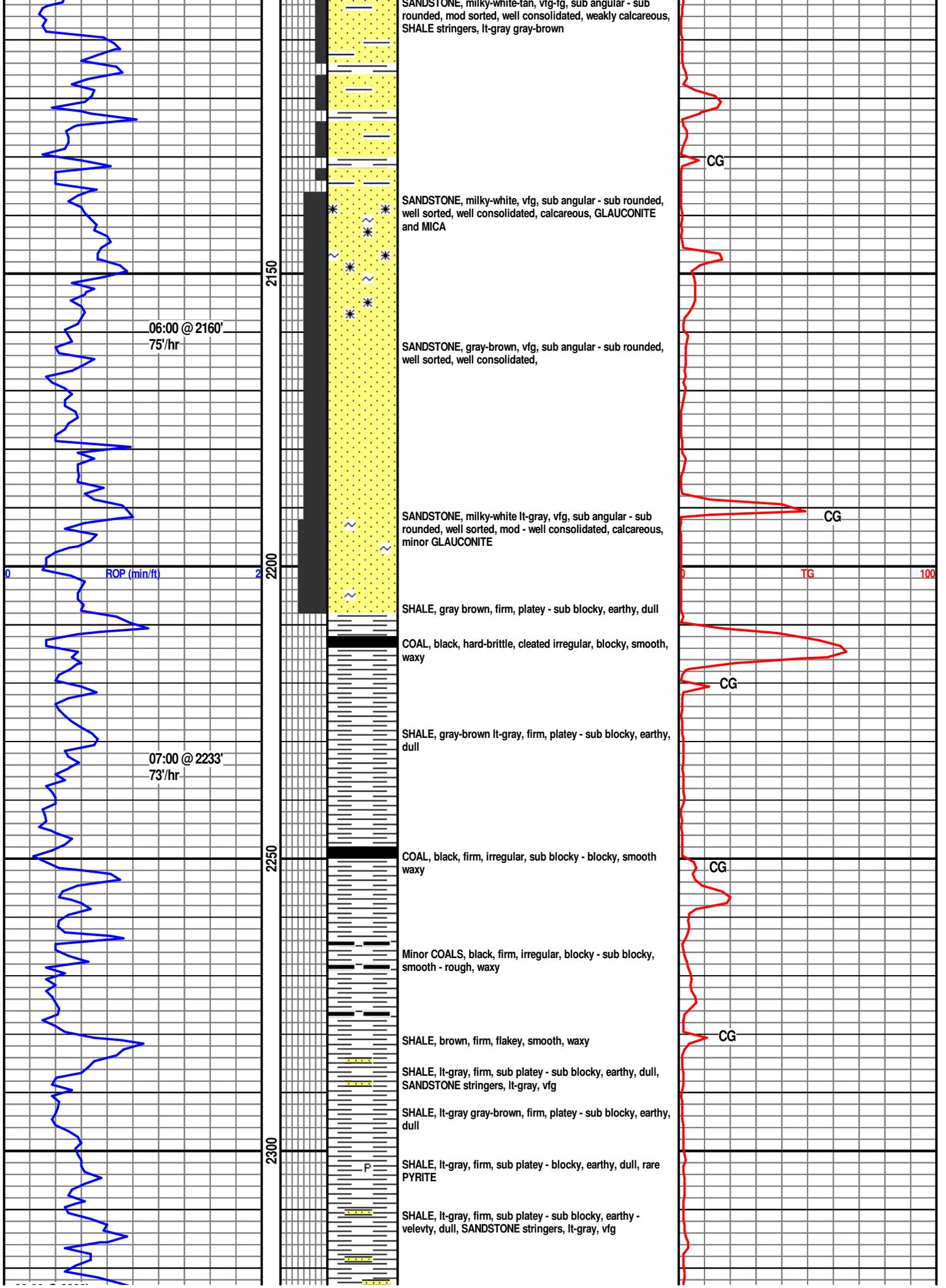
TG

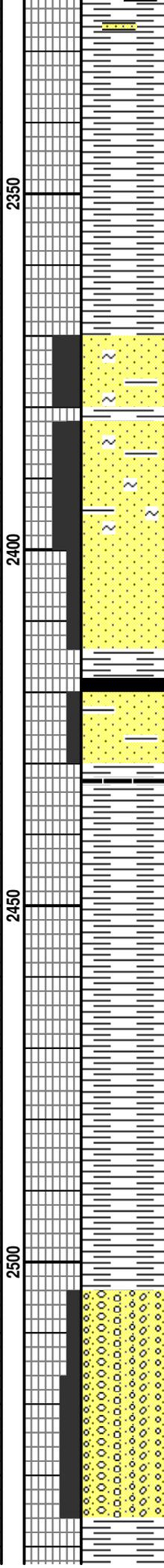
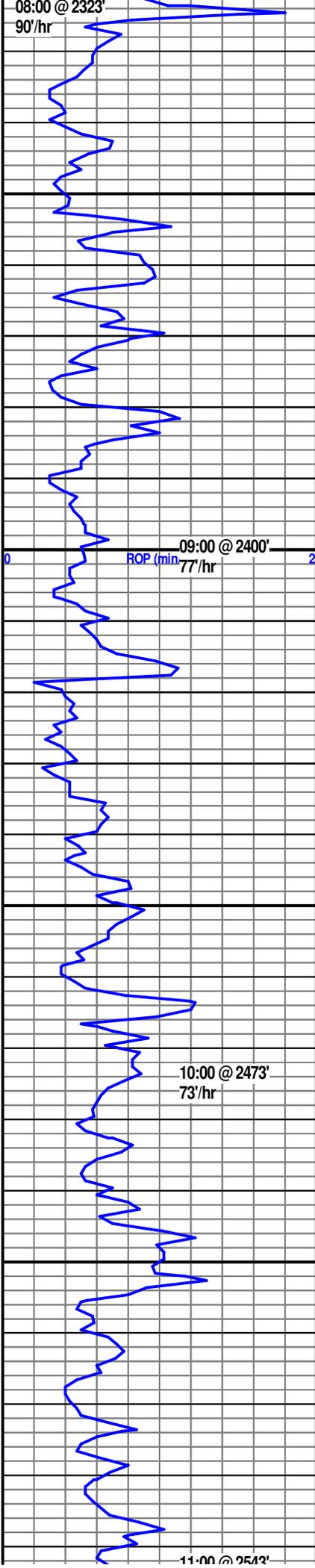
100

CG









SHALE, lt-gray gray-brown, firm - hard, sub platy - sub blocky, earthy gritty sandy

SHALE, lt-gray, soft, sub platy, earthy, dull

SANDSTONE, milky lt-gray, vfg, sub angular - sub rounded, well sorted, mod - well consolidated, calcareous, GLAUCONITE, SHALE stringers

SANDSTONE, milky-clear tan, fg-cg, angular, poorly sorted, poorly consolidated, calcareous

SHALE, dk-gray, firm, blocky - platy, velvety, dull

COAL, black, firm brittle, cleated, blocky, rough - smooth

SANDSTONE, milky-brown, fg - mg, angular - sub angular, poorly sorted, poorly consolidated, calcareous, SHALE stringers

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

SHALE, gray-brown, firm, sub platy, earthy, dull

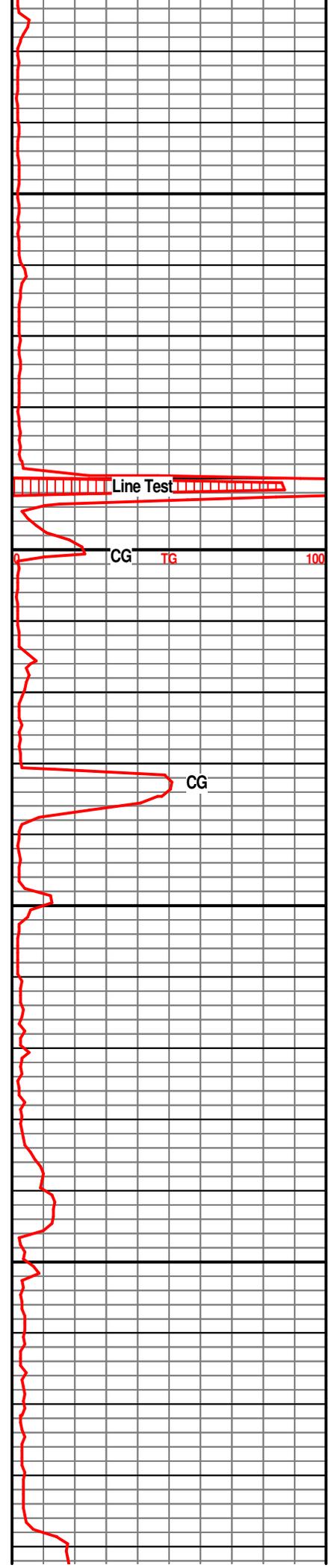
SHALE, lt-gray lt-brown, firm soft, sub platy, earthy - velvety gritty sandy

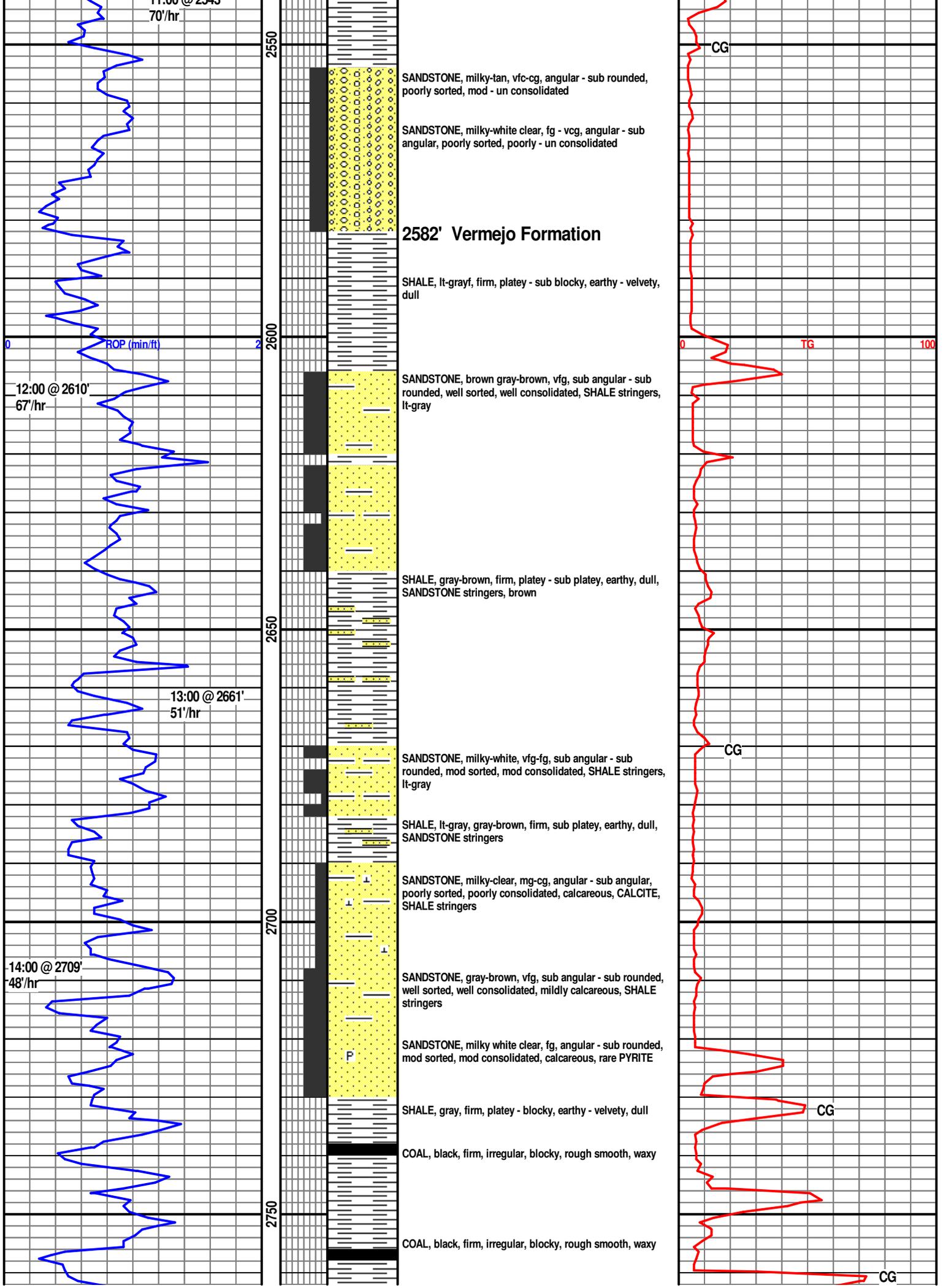
2505' Basal Conglomerate

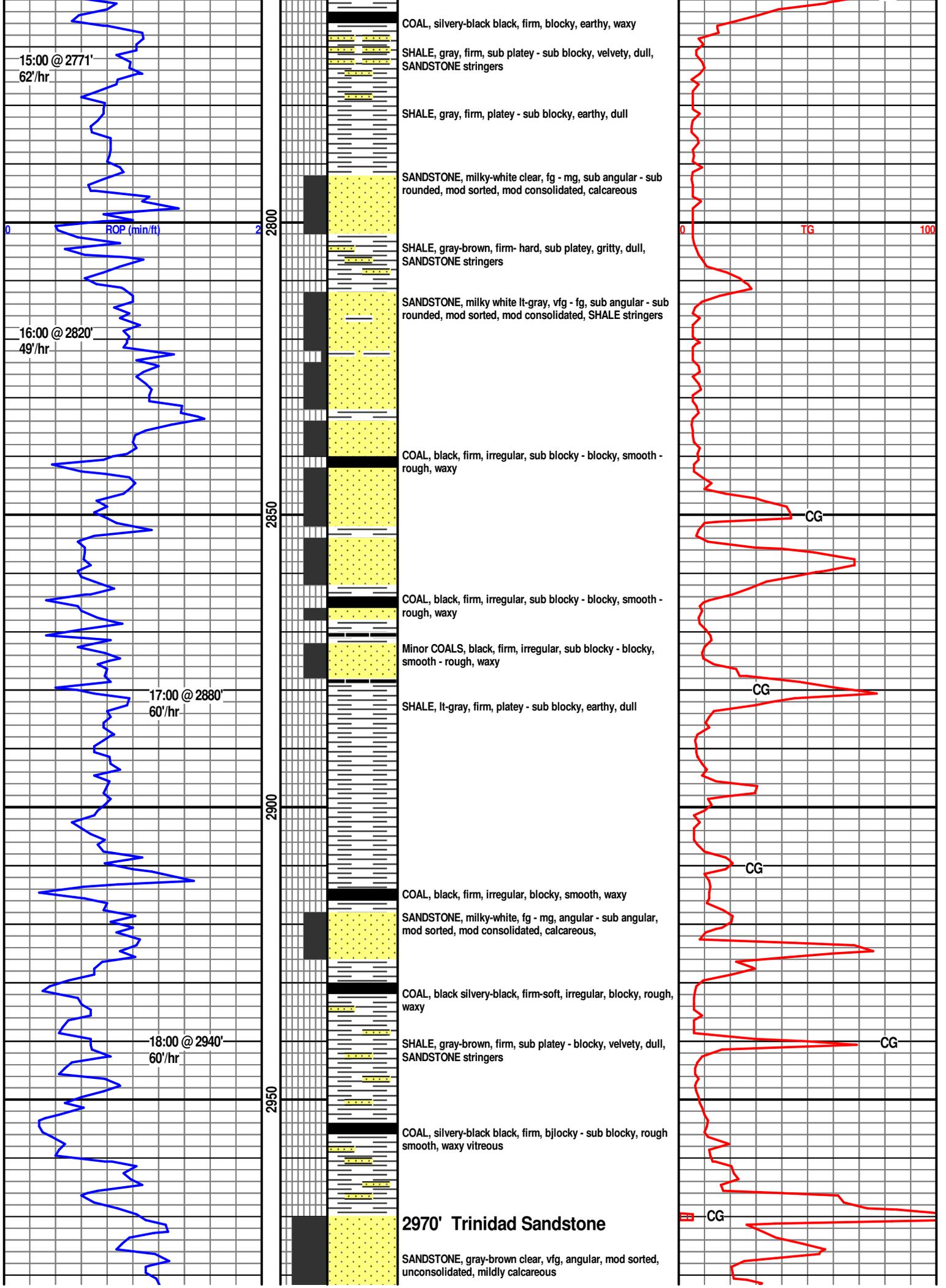
SANDSTONE, milky white clear, fg-mg, angular - sub angular, poorly sorted, poorly consolidated, mildly calcareous

SANDSTONE, milky-blue white clear, fg-cg, angular - sub angular, poorly sorted, mod - un consolidated, moderately consolidated, SHALE stringers

SHALE, lt-gray, firm, sub platy - sub blocky, earthy, dull







19:00 @ 2989'
49'/hr

ROP (min/ft)

20:00 @ 3015'
26'/hr

21:00 @ 3026'
11'/hr

22:00 @ 3068'
42'/hr

TD @ 3100'
22:40 09/06/05

3000
3050
3100



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

SANDSTONE, milky-white clear, vfg, sub rounded, well sorted, poorly - un consolidated, strongly calcareous, MICA

SANDSTONE, milky-white clear, vfg, sub rounded, well sorted, poorly - un consolidated, calcareous

SANDSTONE, milky lt-brown, vfg, sub angular - sub rounded, well sorted, poorly - un consolidated, strongly calcareous

Shadowland 33-24

TG

100

