

COLUMBINE LOGGING

Scale: 5" / 100'
Measured Depth Log

Well Name Resolute E25-63-1HN

Location SESE SEC26 T6N R65W

State COLORADO

County WELD

Country USA

Rig Number PRECISION 828

API Number 05-123-38155

AFE # 139764

Region DENVER JULESBURG BASIN

Field WATTENBERG

Spud Date 6/7/2014

Drilling Completed 6/14/2014

Surface Coordinates 328' FSL, 280' FEL

Lat/Long: 40.45059/-104.62175

Ground Elevation 4676'

K.B. Elevation 4692'

Logged Interval 594'

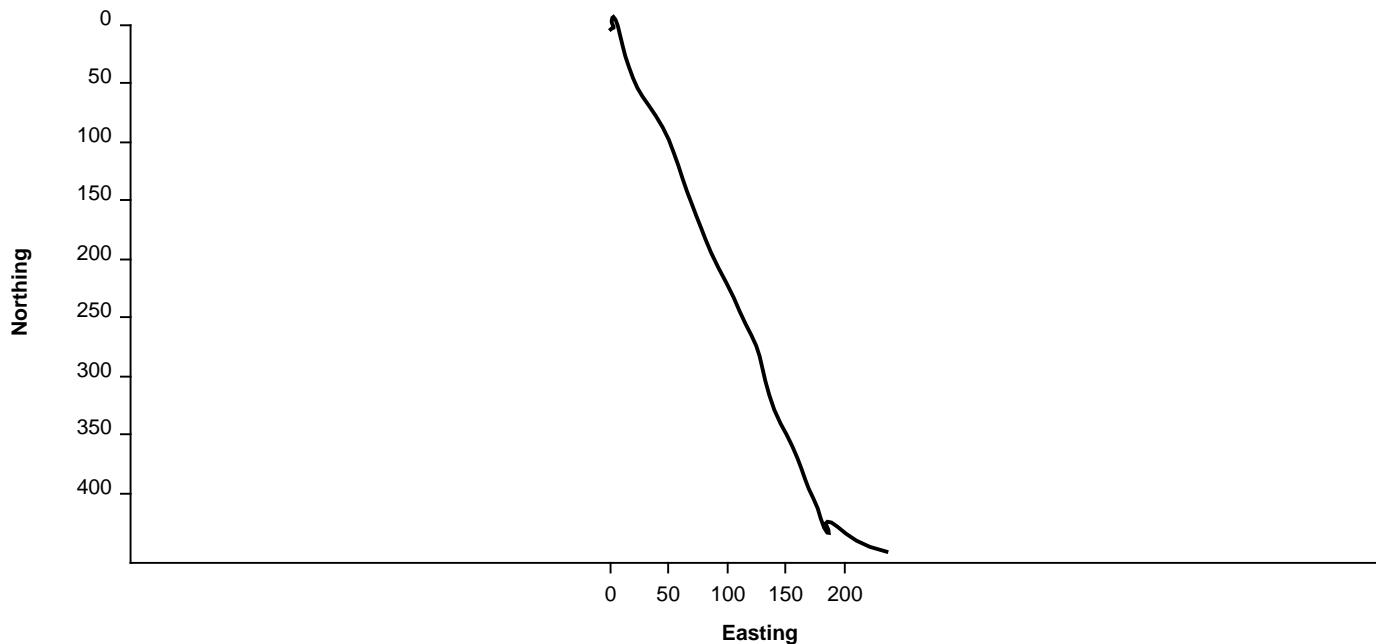
To 6430'

Total Depth 11387'

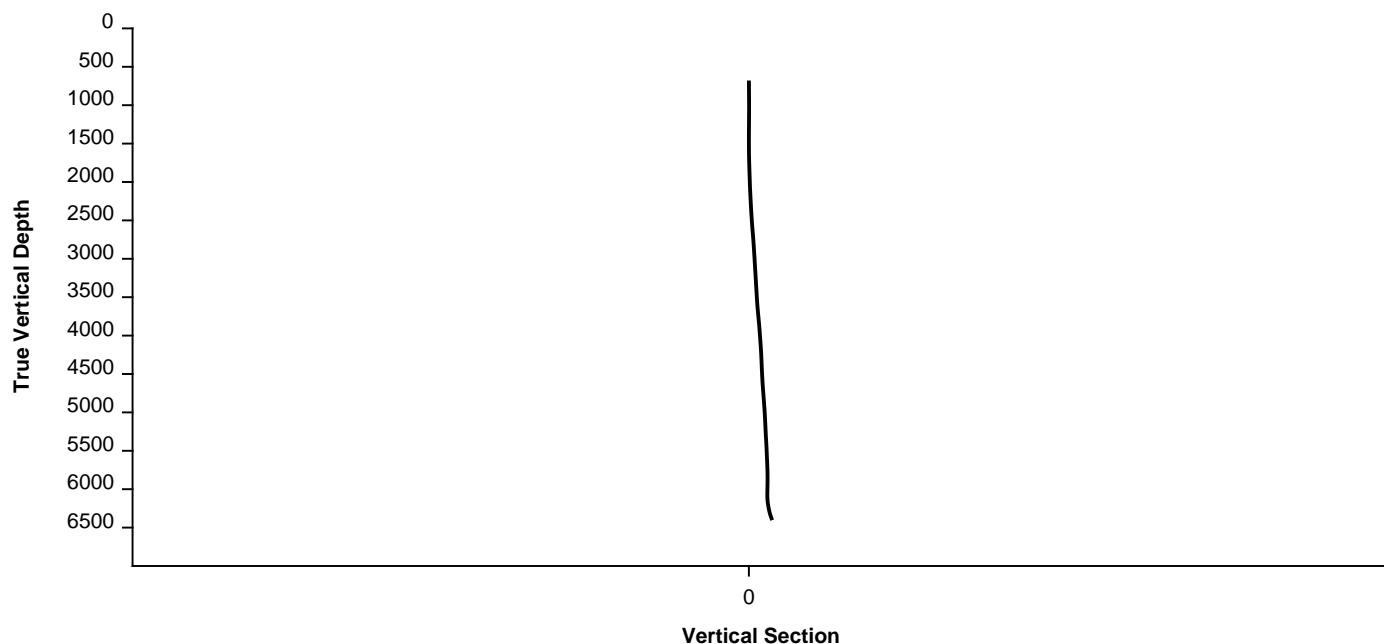
Formation FOX HILLS, PIERRE, PARKMAN, SUSSEX, SHANNON, TEEPEE BUTTES

Type of Drilling Fluid FRESH WATER, LSND

Survey Plan



Survey Elevation



Other

WELLSITE GEOLOGISTS: GARY MYERS, GABRIEL RUBIO

GEOLOGIC SERVICES PROVIDED BY COLUMBINE LOGGING, INC.

LOG CONTINURES ON FILE: Resolute E25-63-1HN Horiz.mplot

Operator

Company NOBLE ENERGY INC.

Address 1625 Broadway
Denver, CO 80202

Rock Types

 SANDSTONE
 SHALY SANDSTONE

 SHALY SILTSTONE
 SILTSTONE

 SILTY SHALE

Geologist

Name EVAN HOWELL

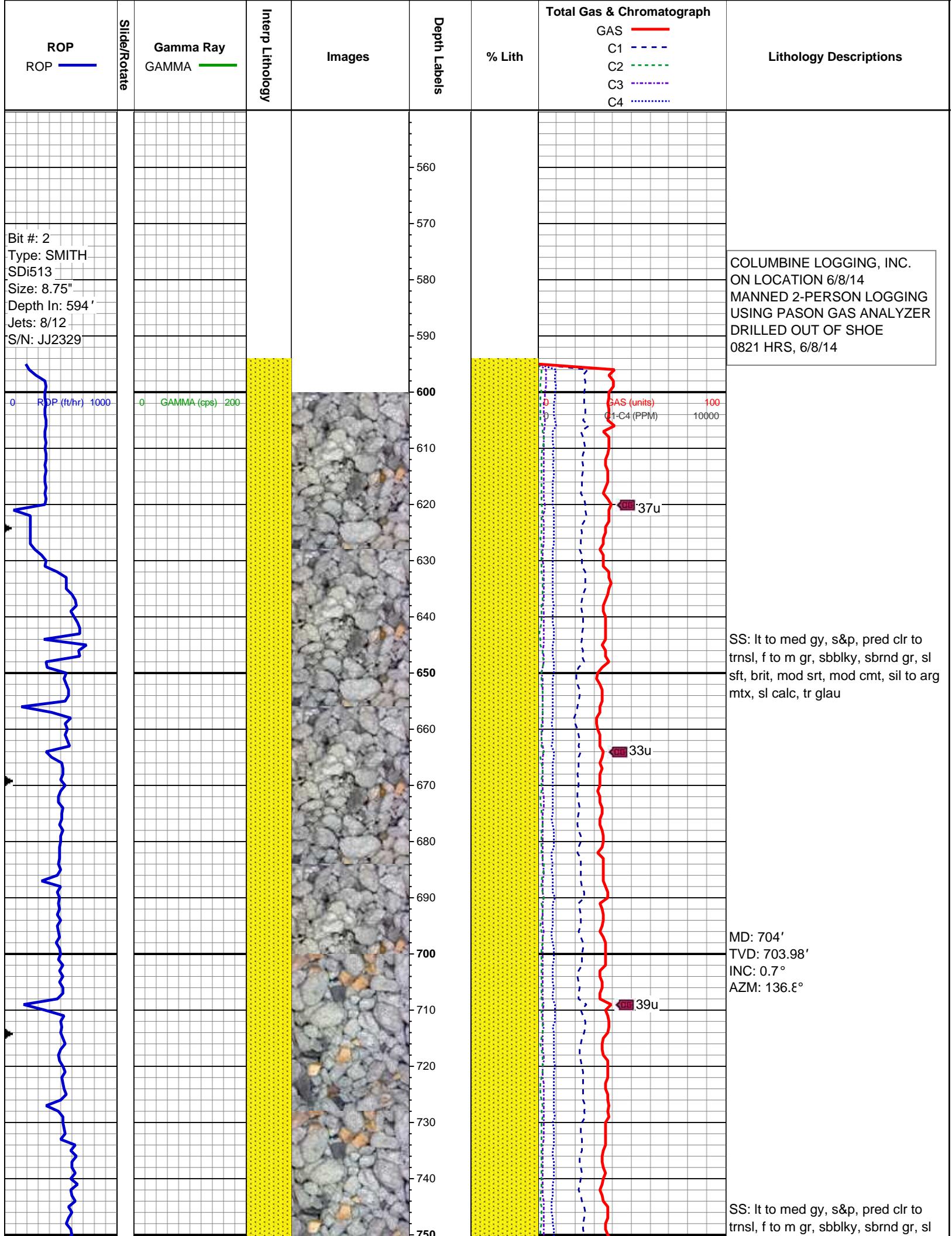
Company NOBLE ENERGY, INC.

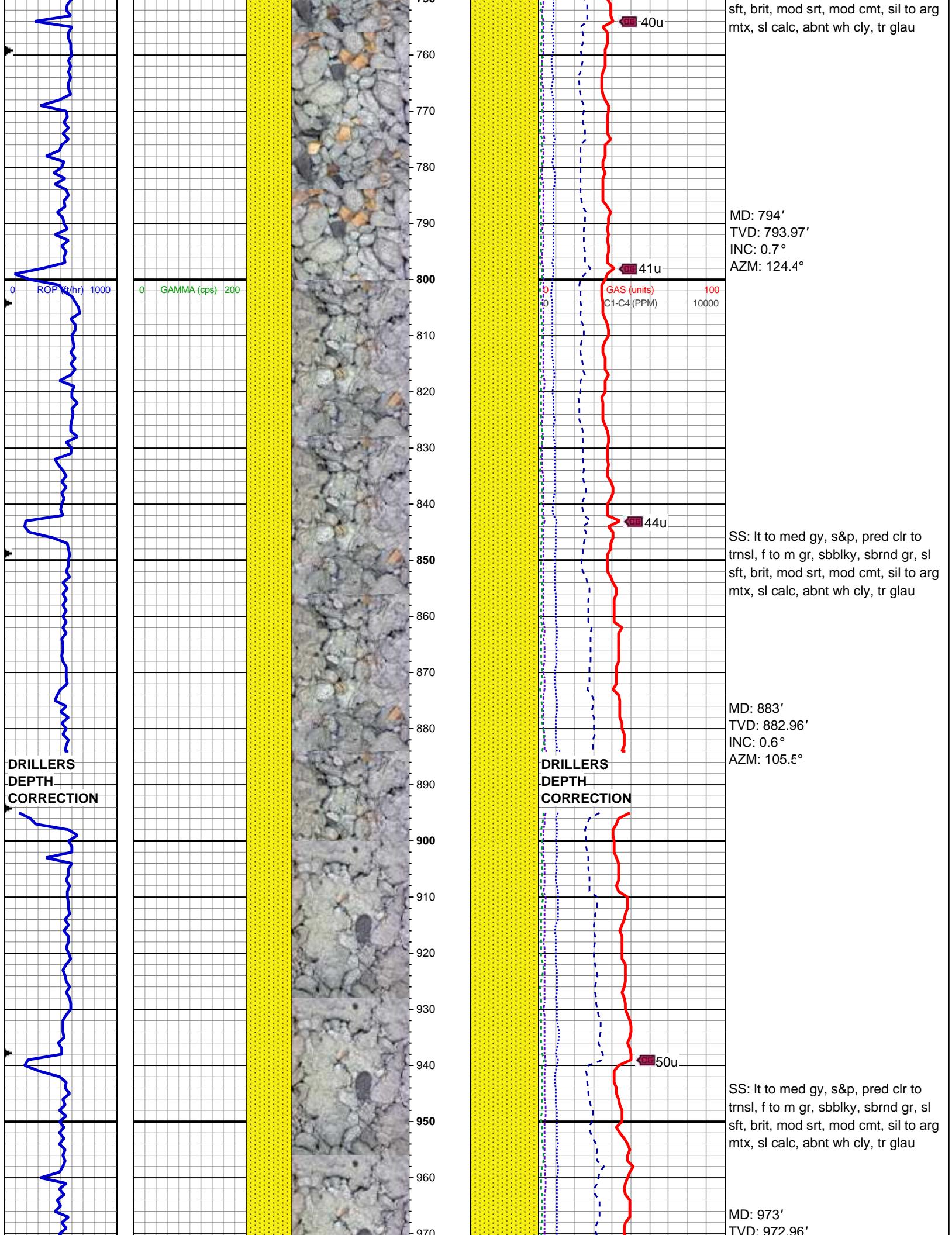
Address 1625 Broadway
Denver, CO 80202

Other Symbols

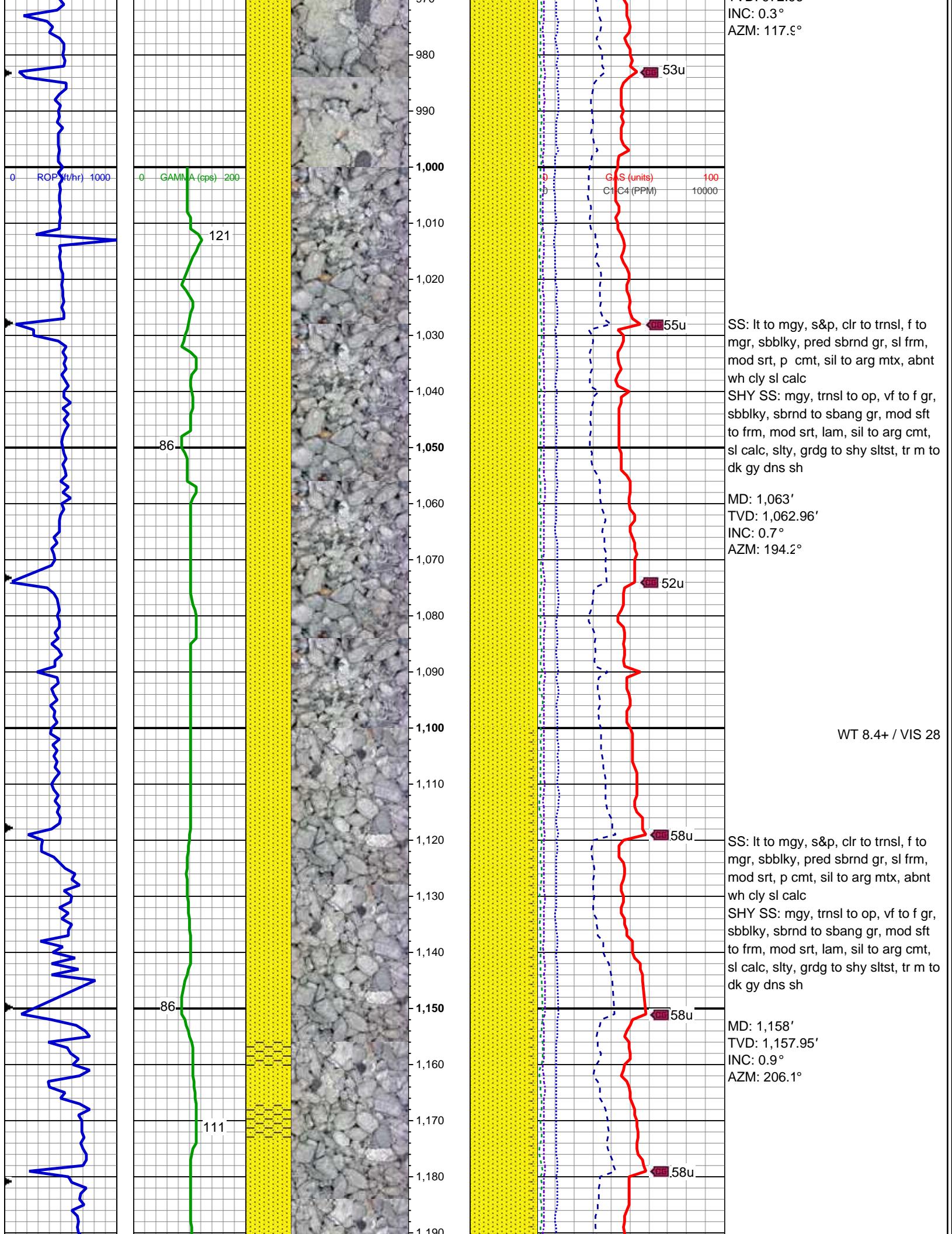
Engineering

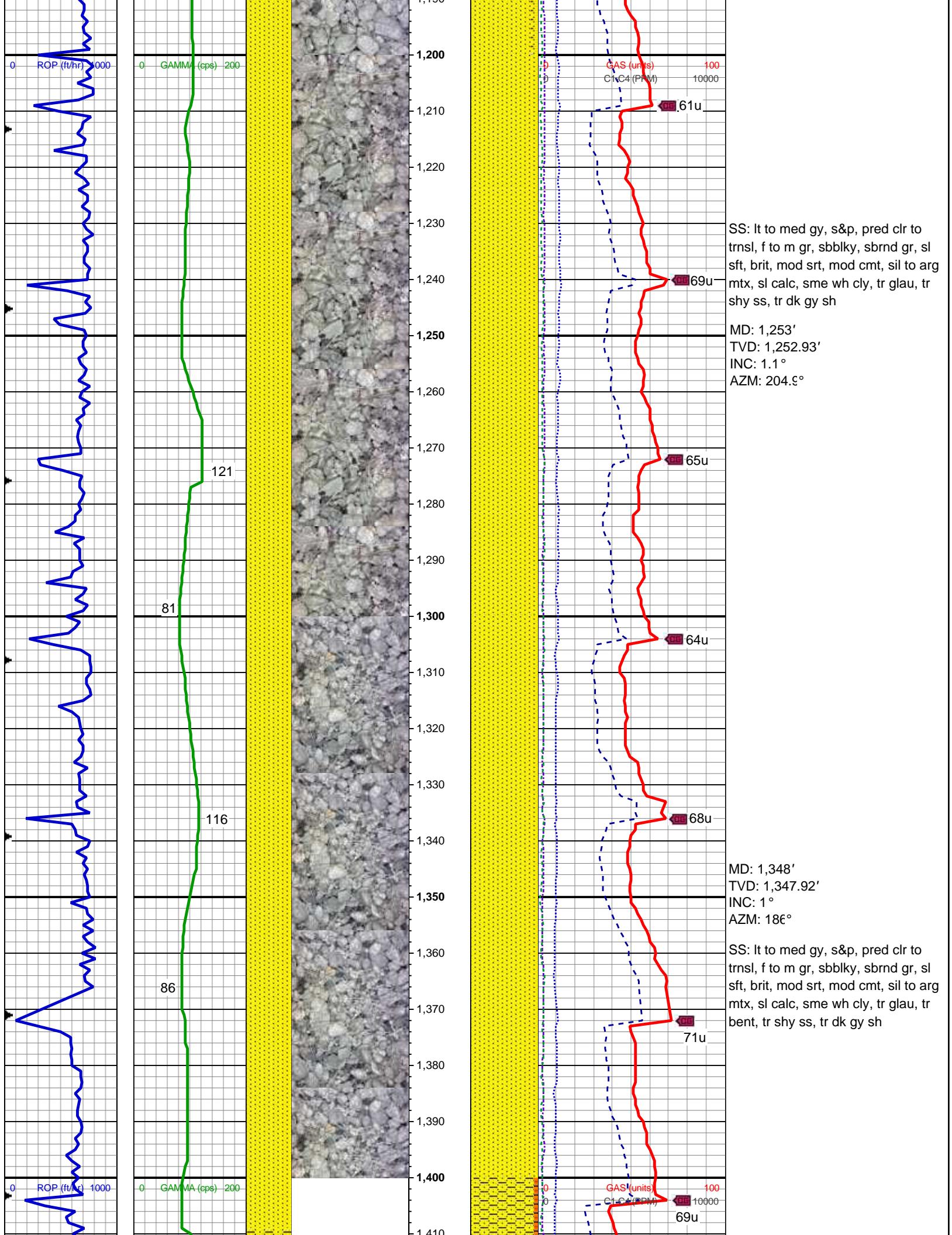
-  BIT CHANGE
-  CONNECTION (RIGHT)
-  CONNECTION GAS
-  MN DEPTH
-  MN DEPTH (RIGHT)

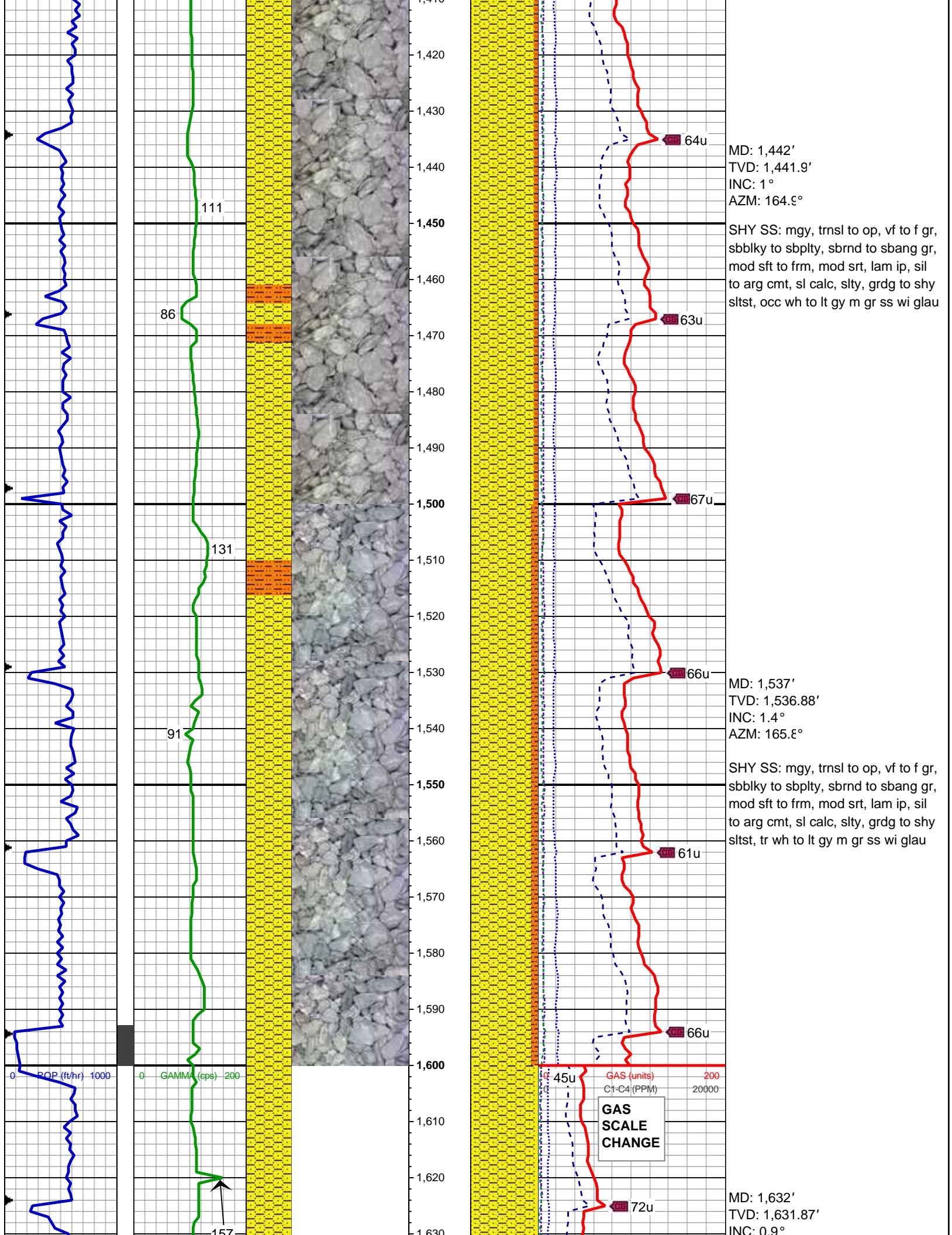


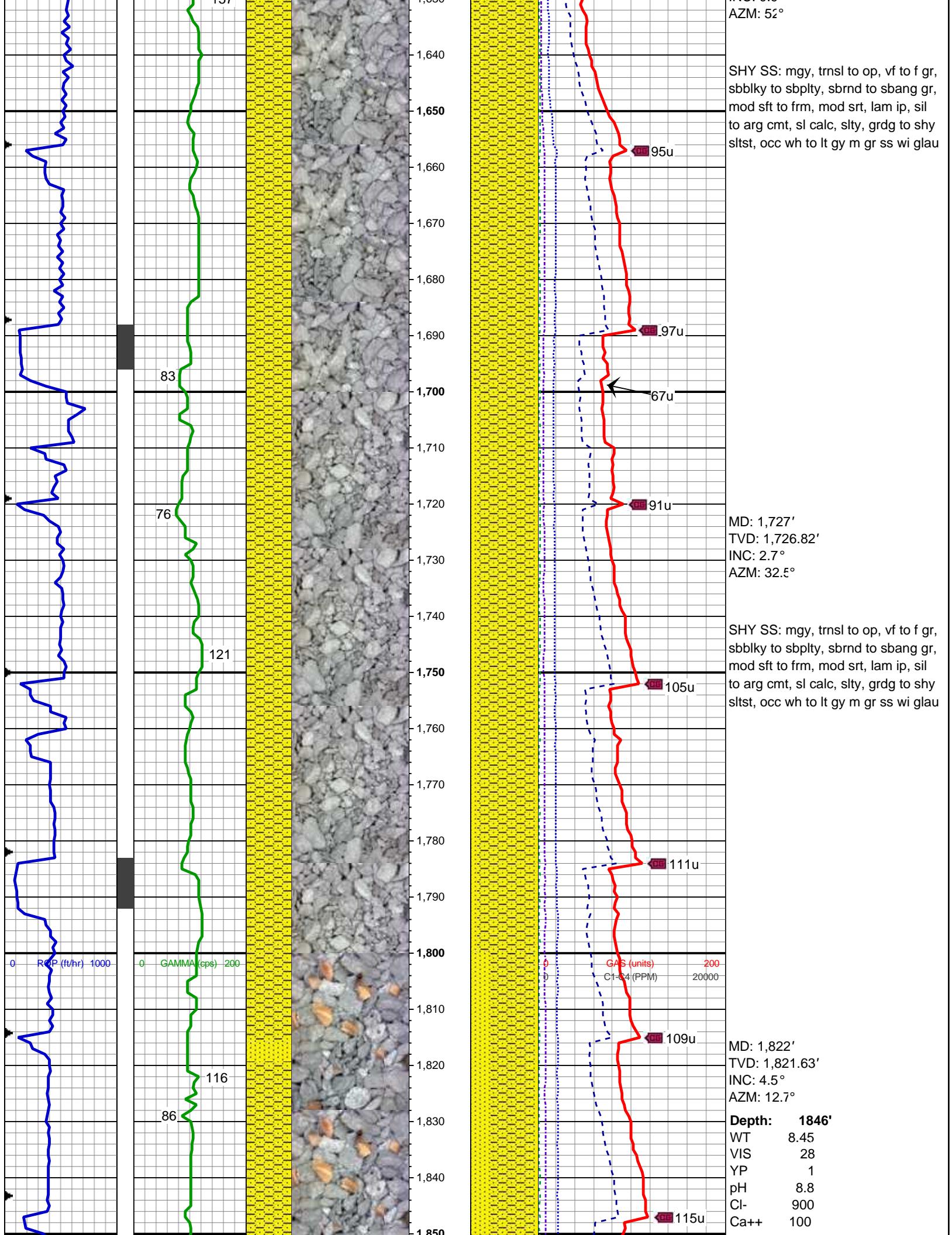


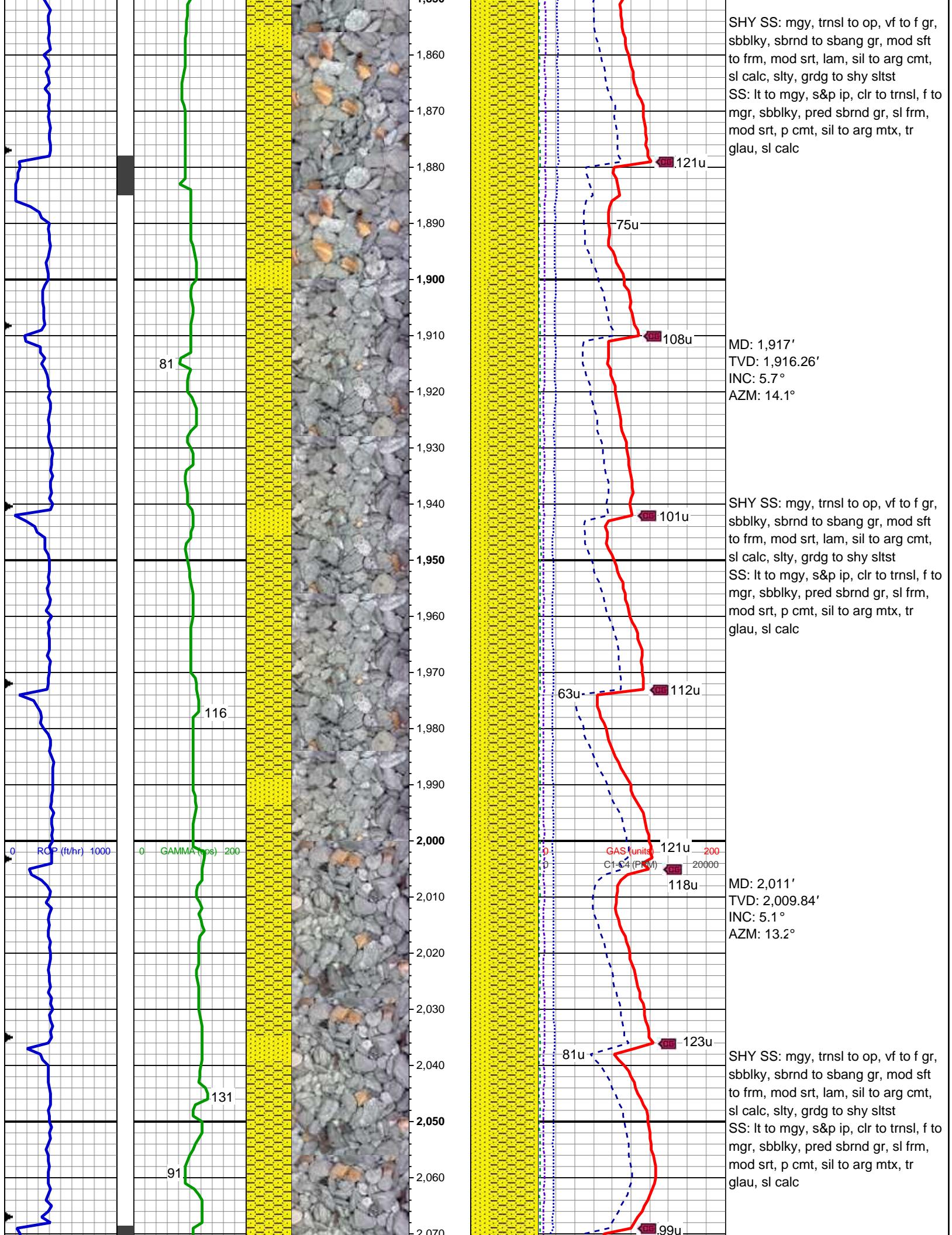
TVD: 972.00
INC: 0.3°
AZM: 117.5°

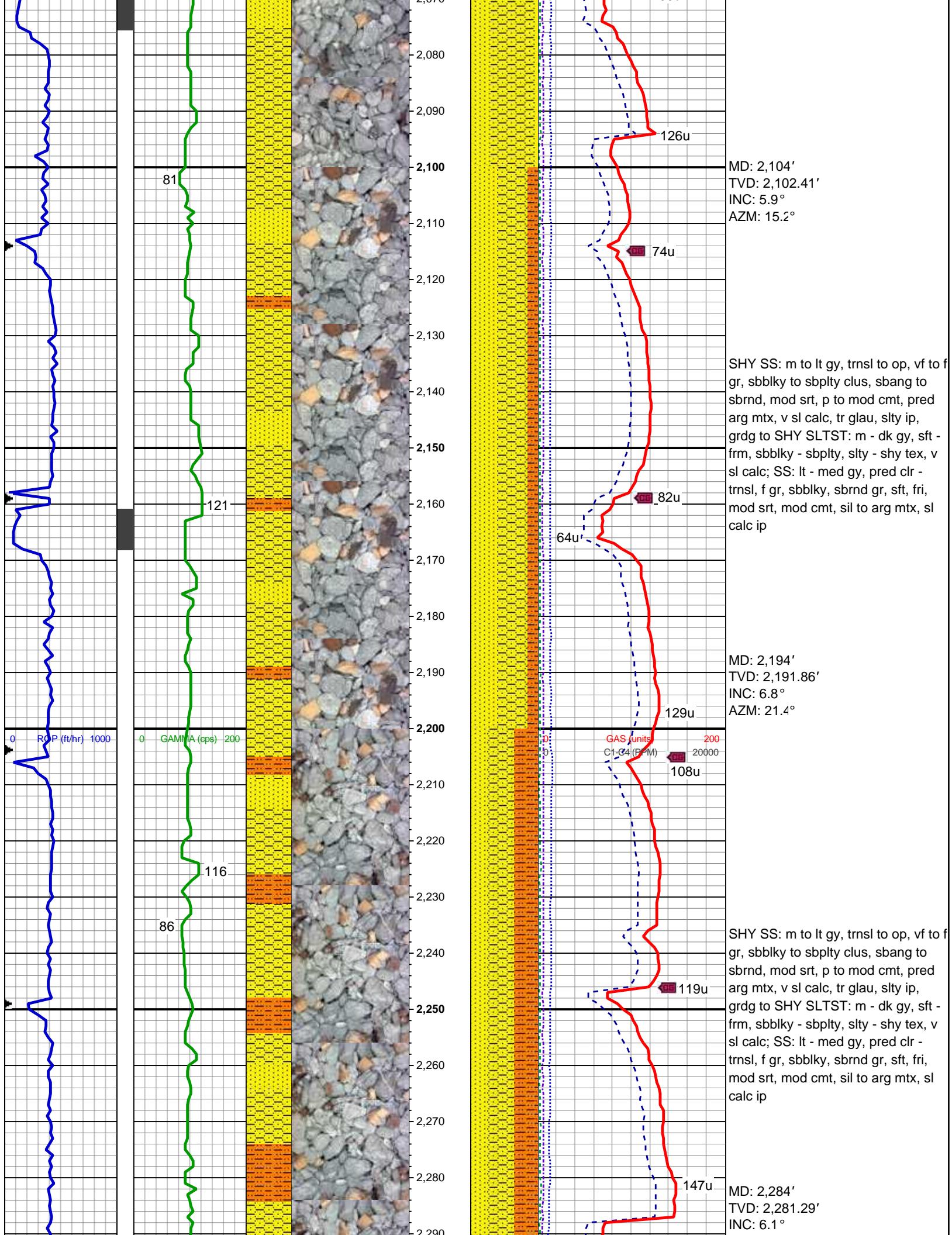


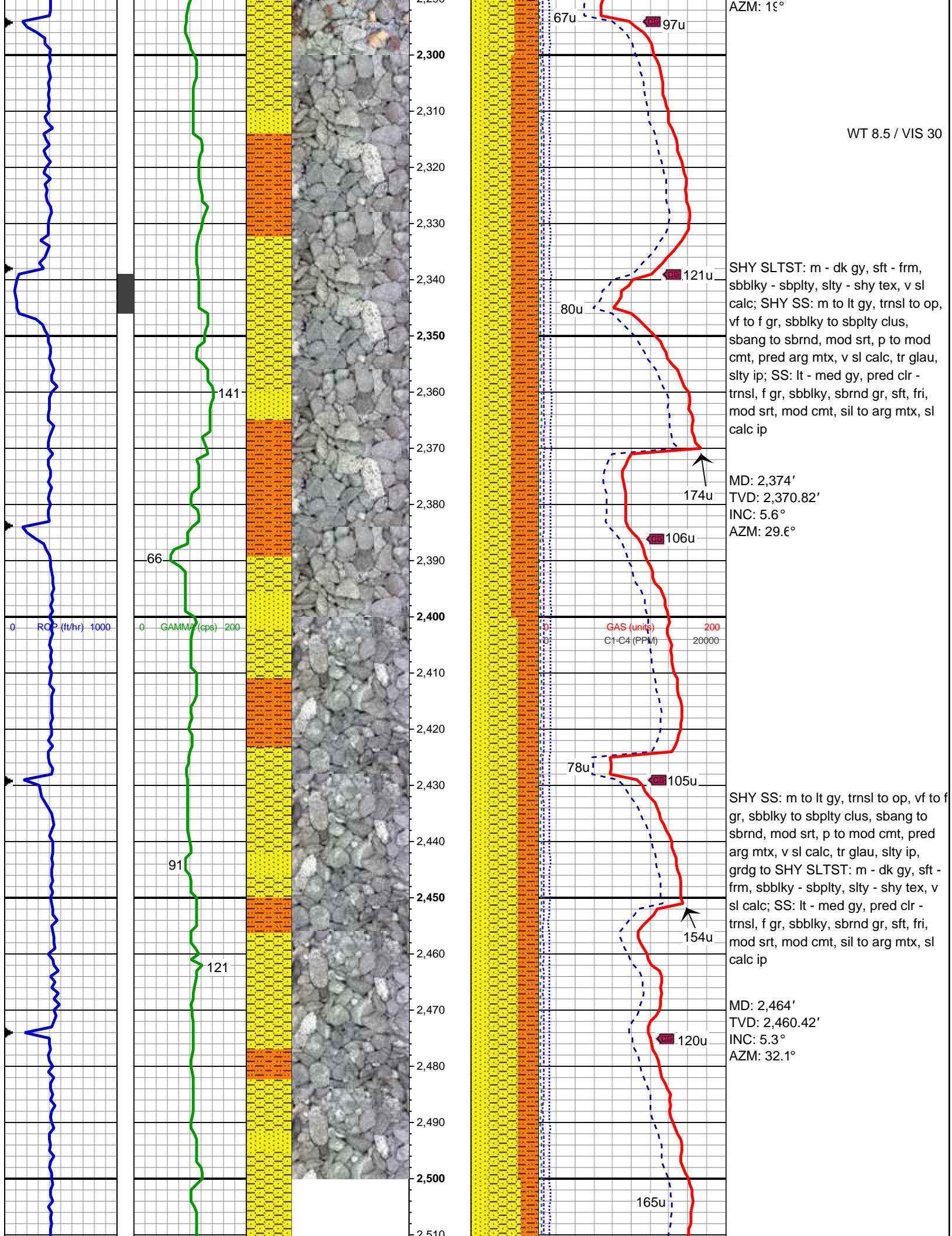


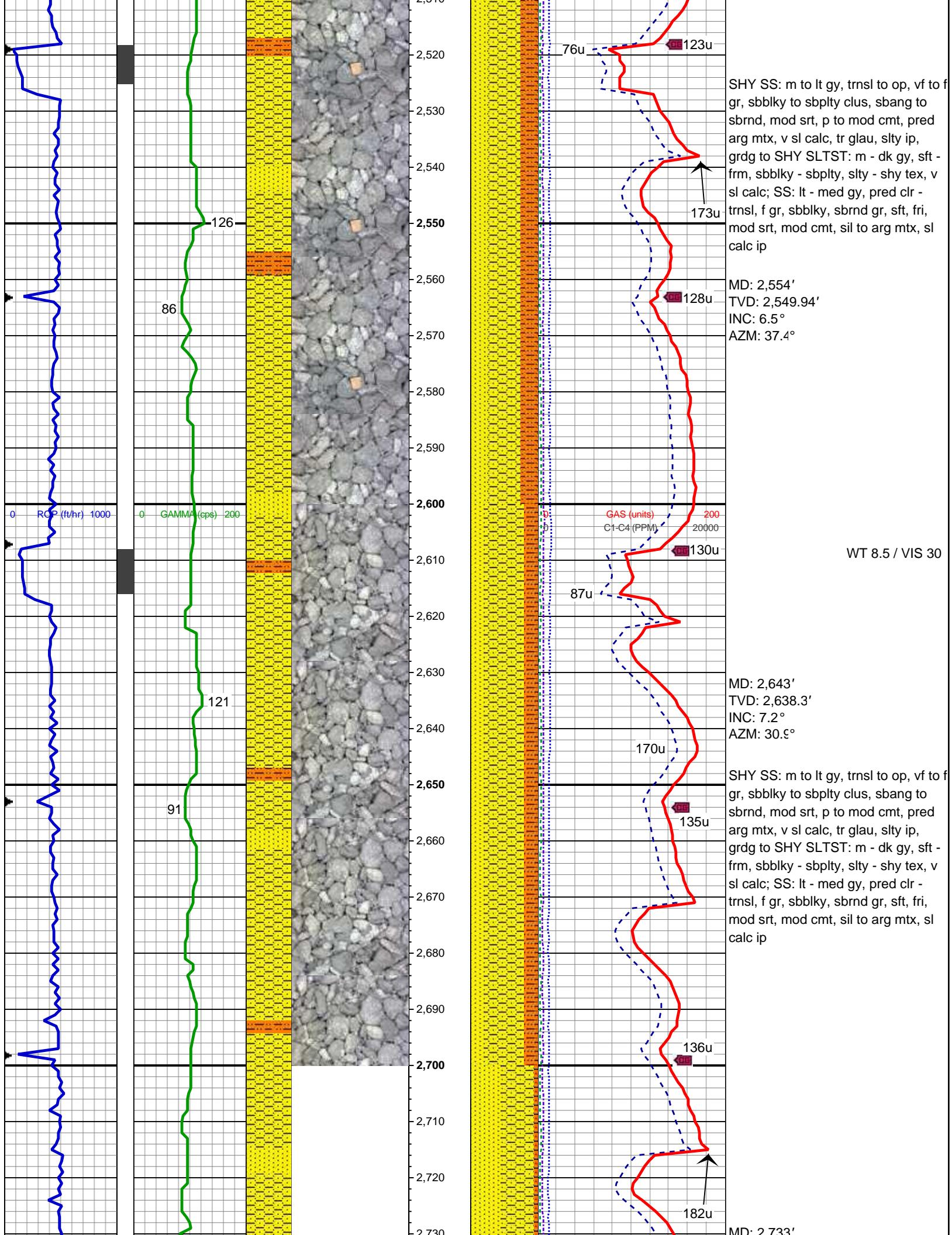


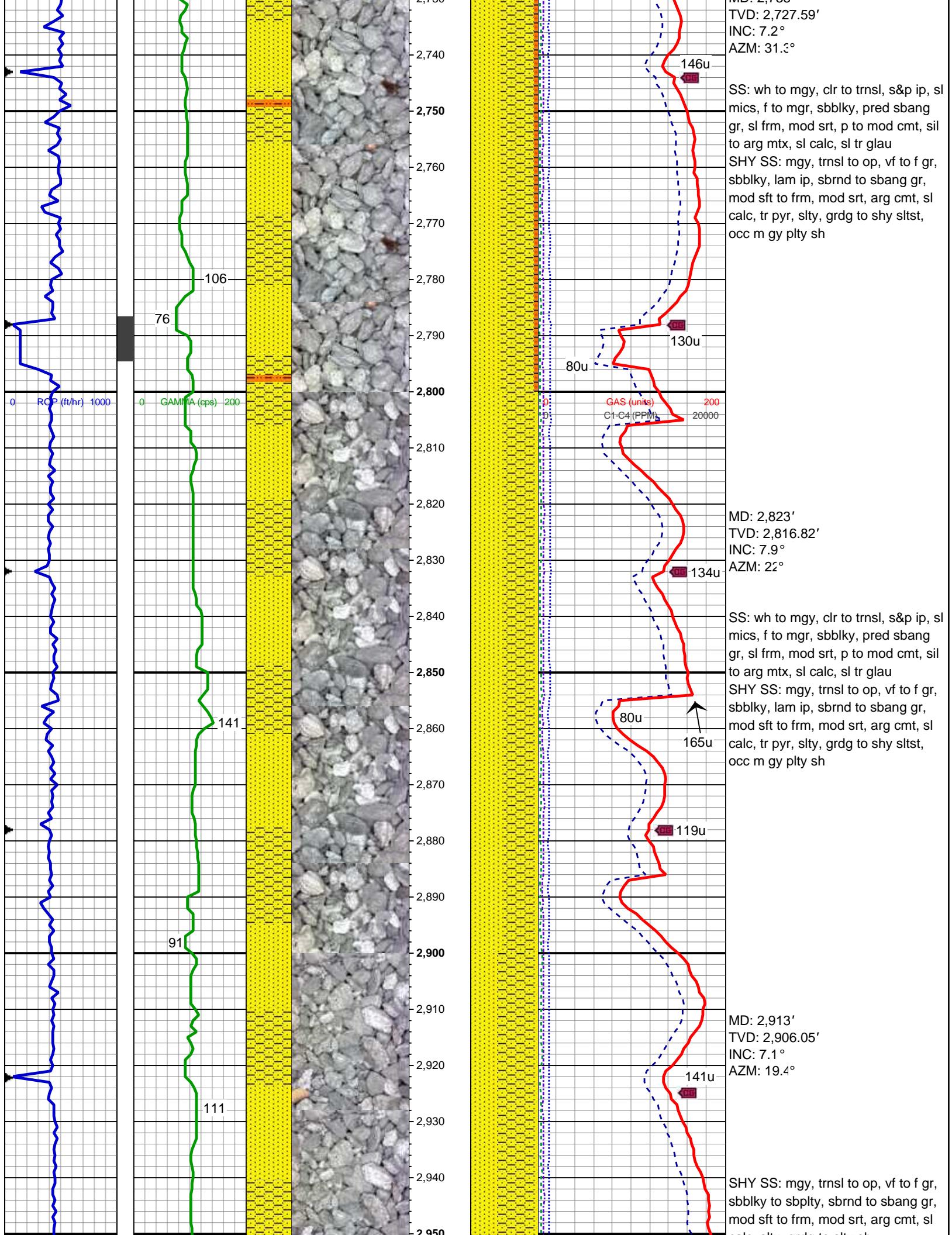


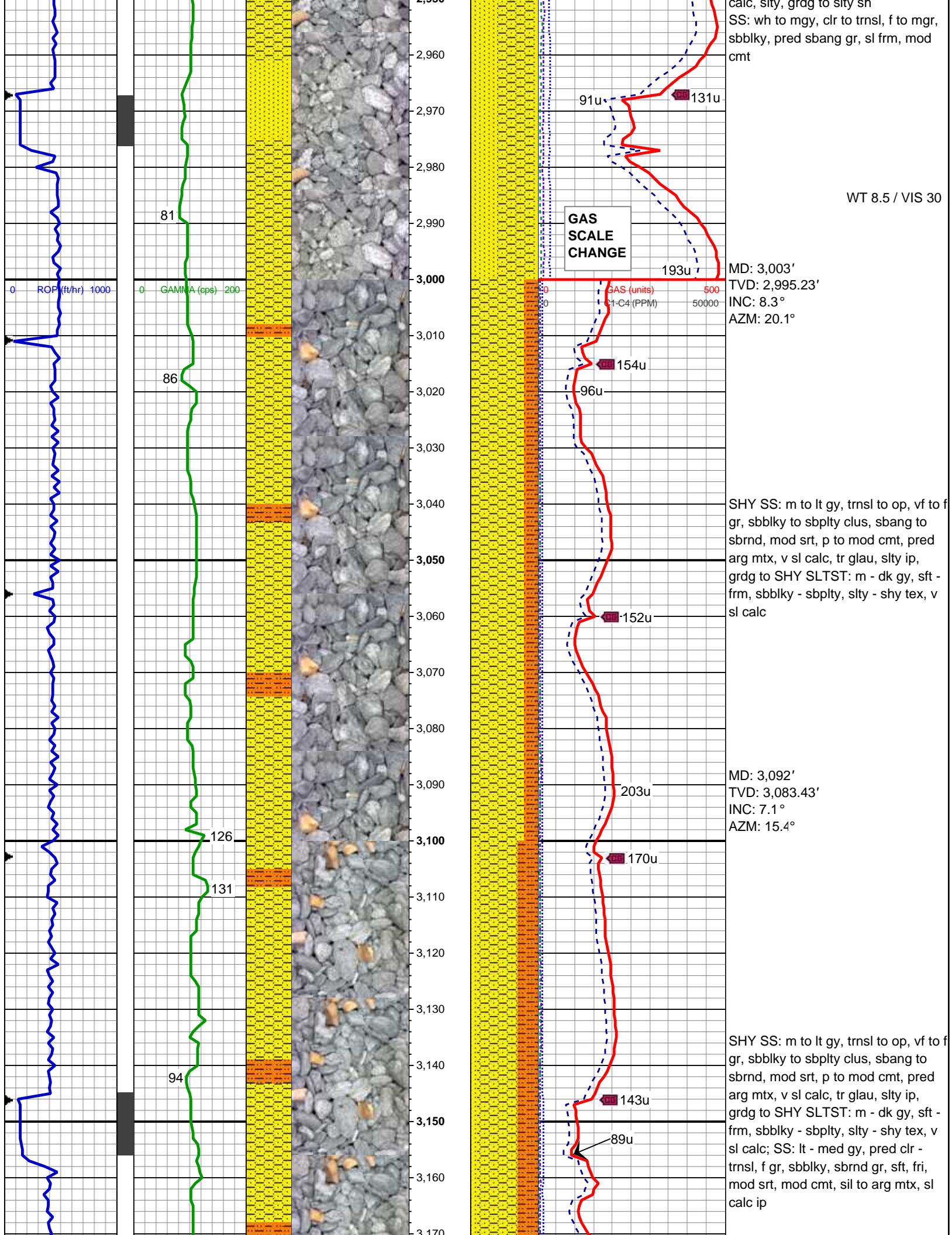


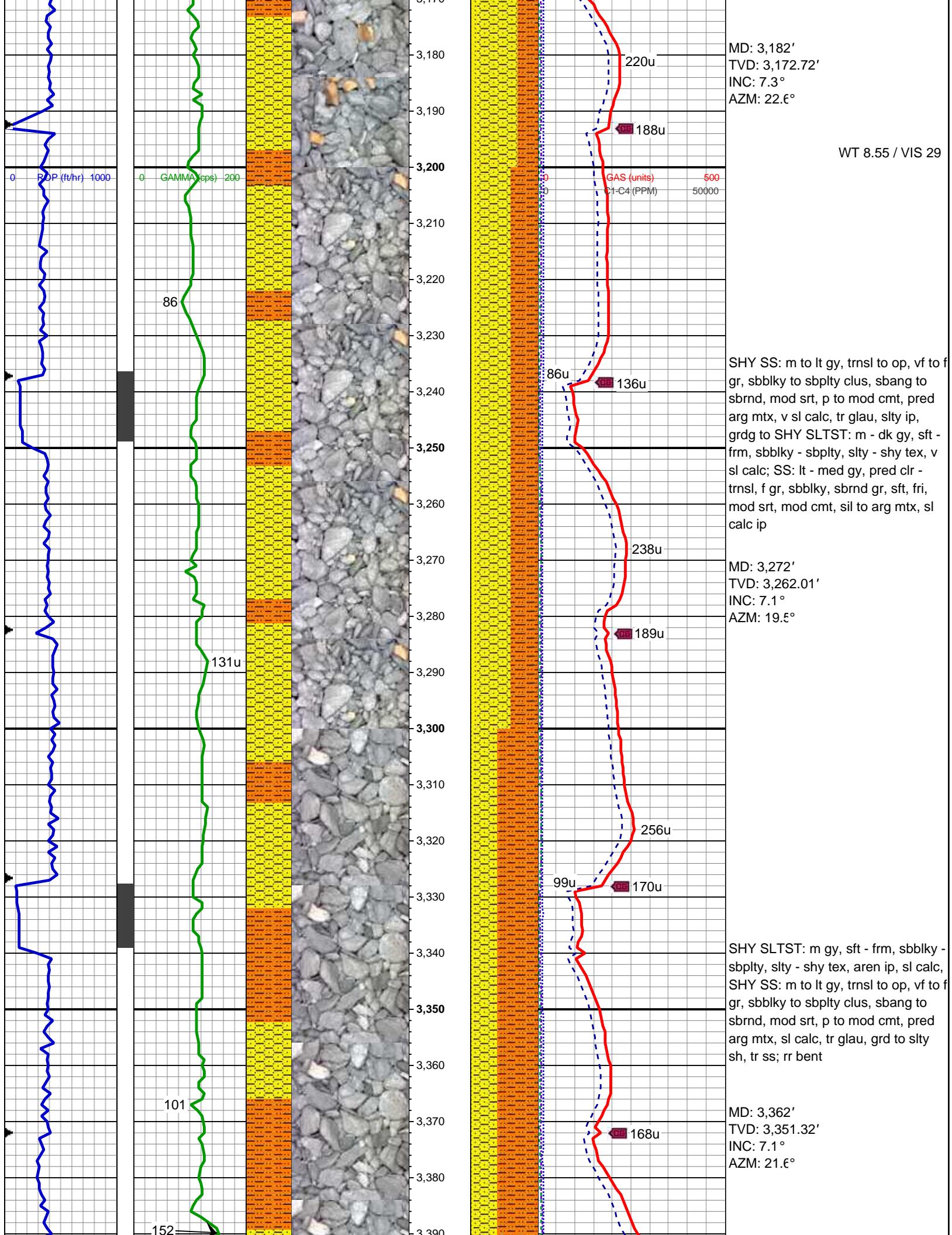


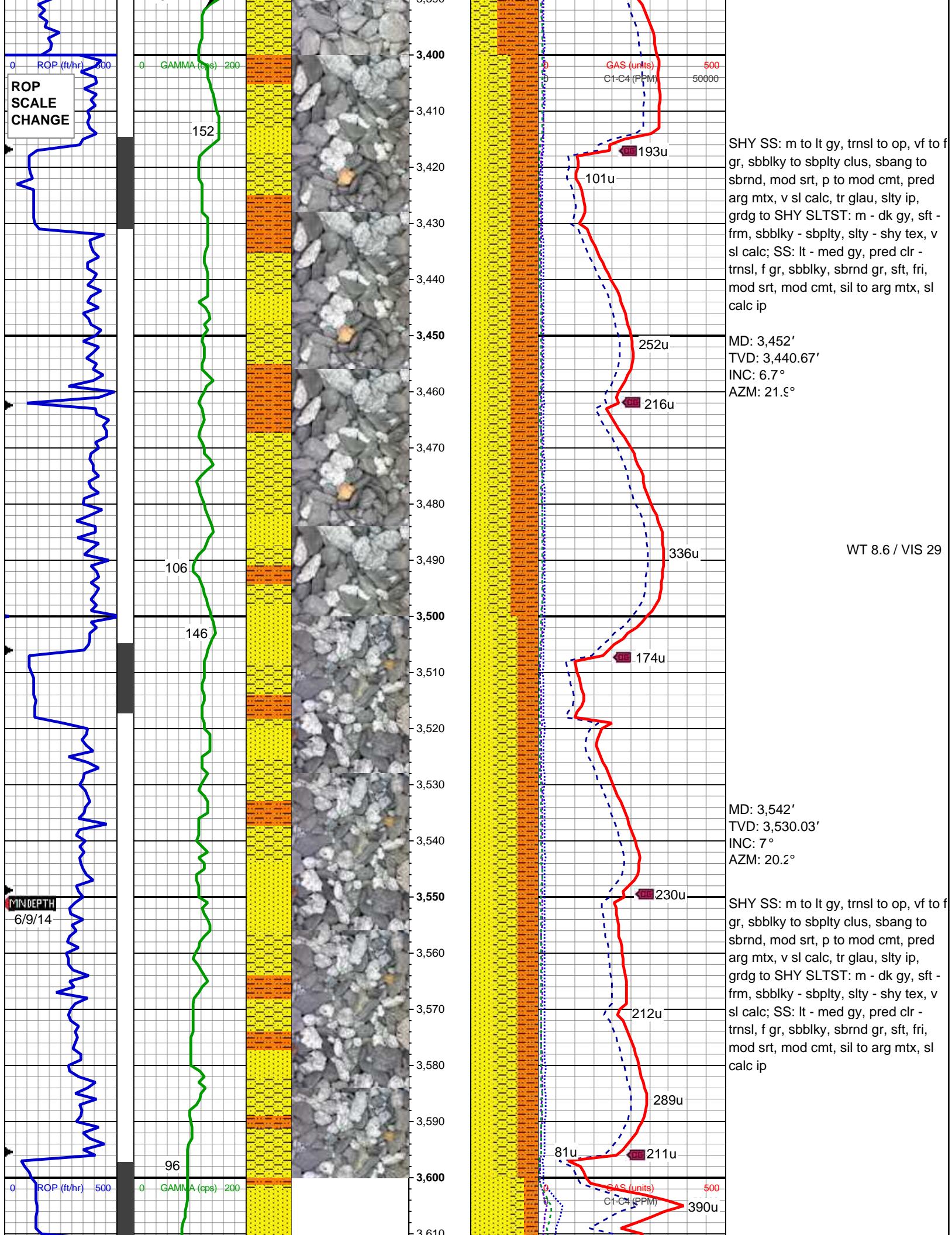


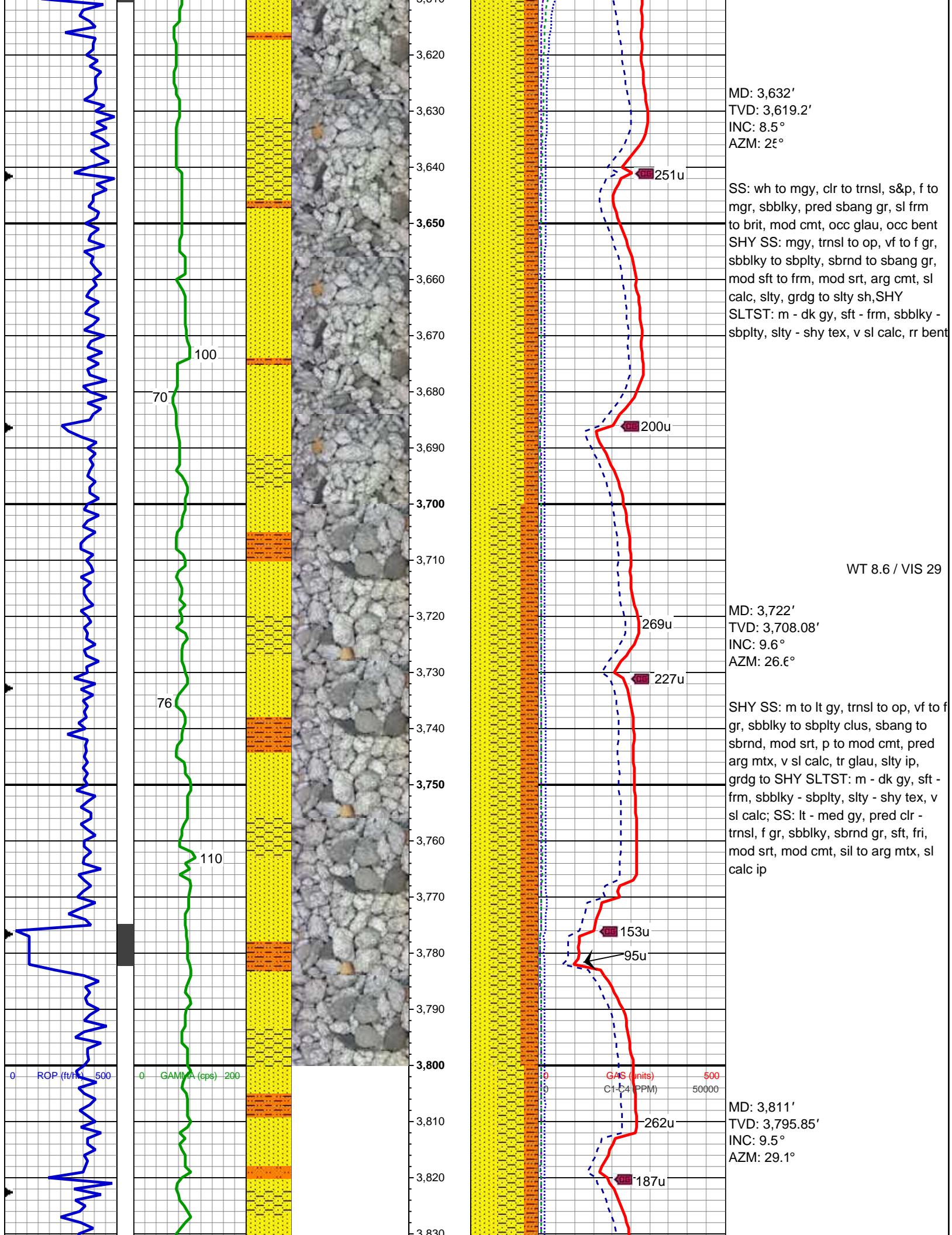


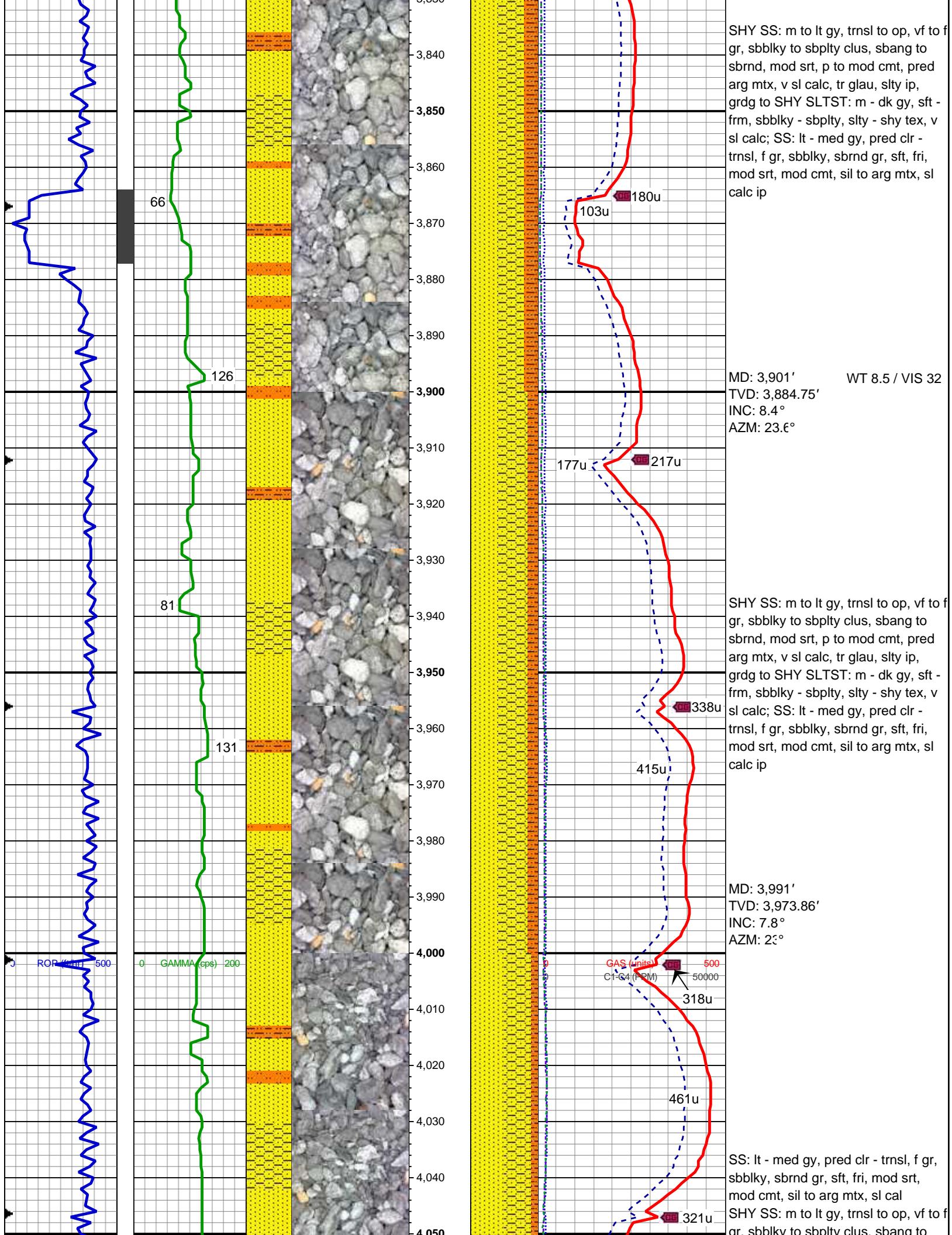


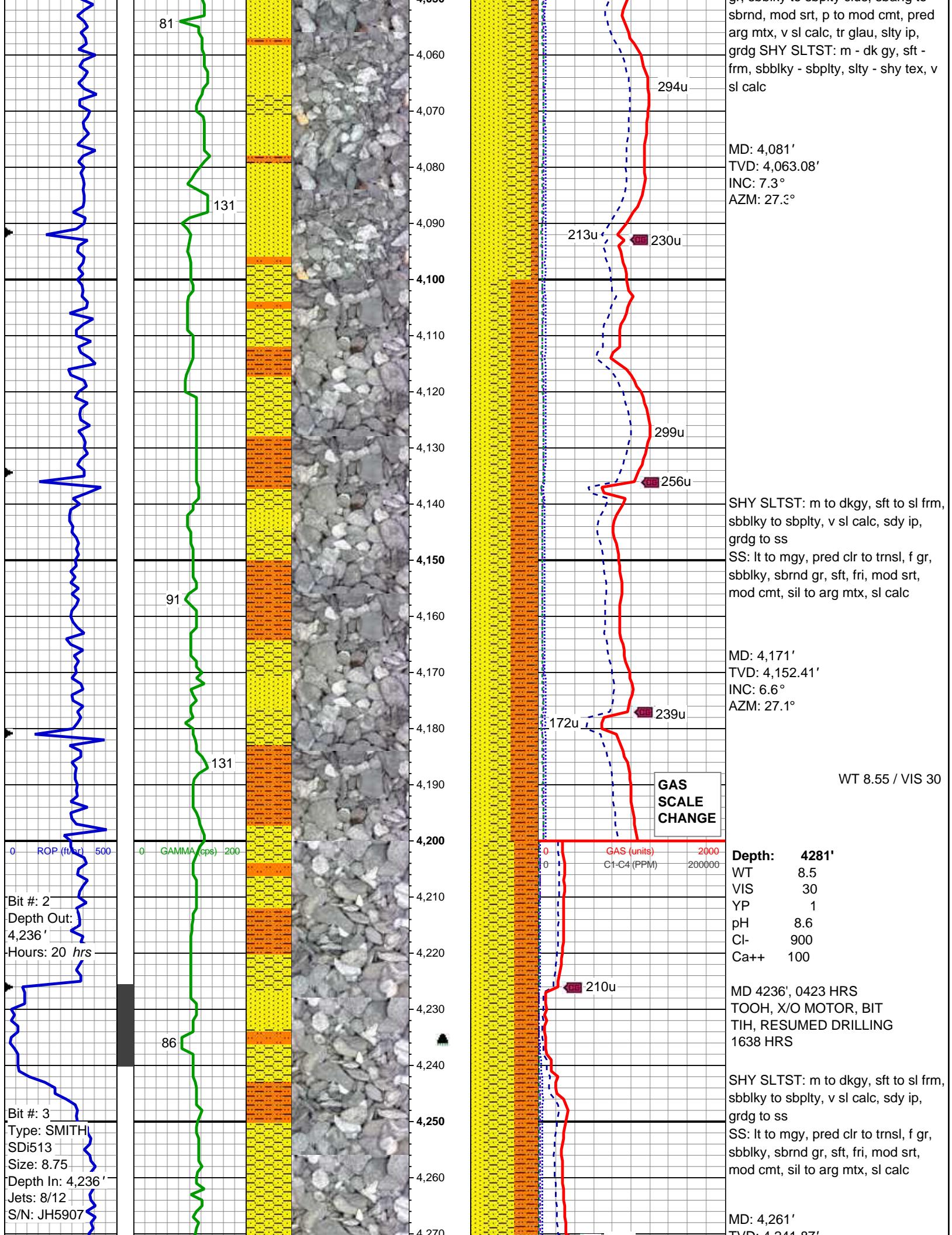


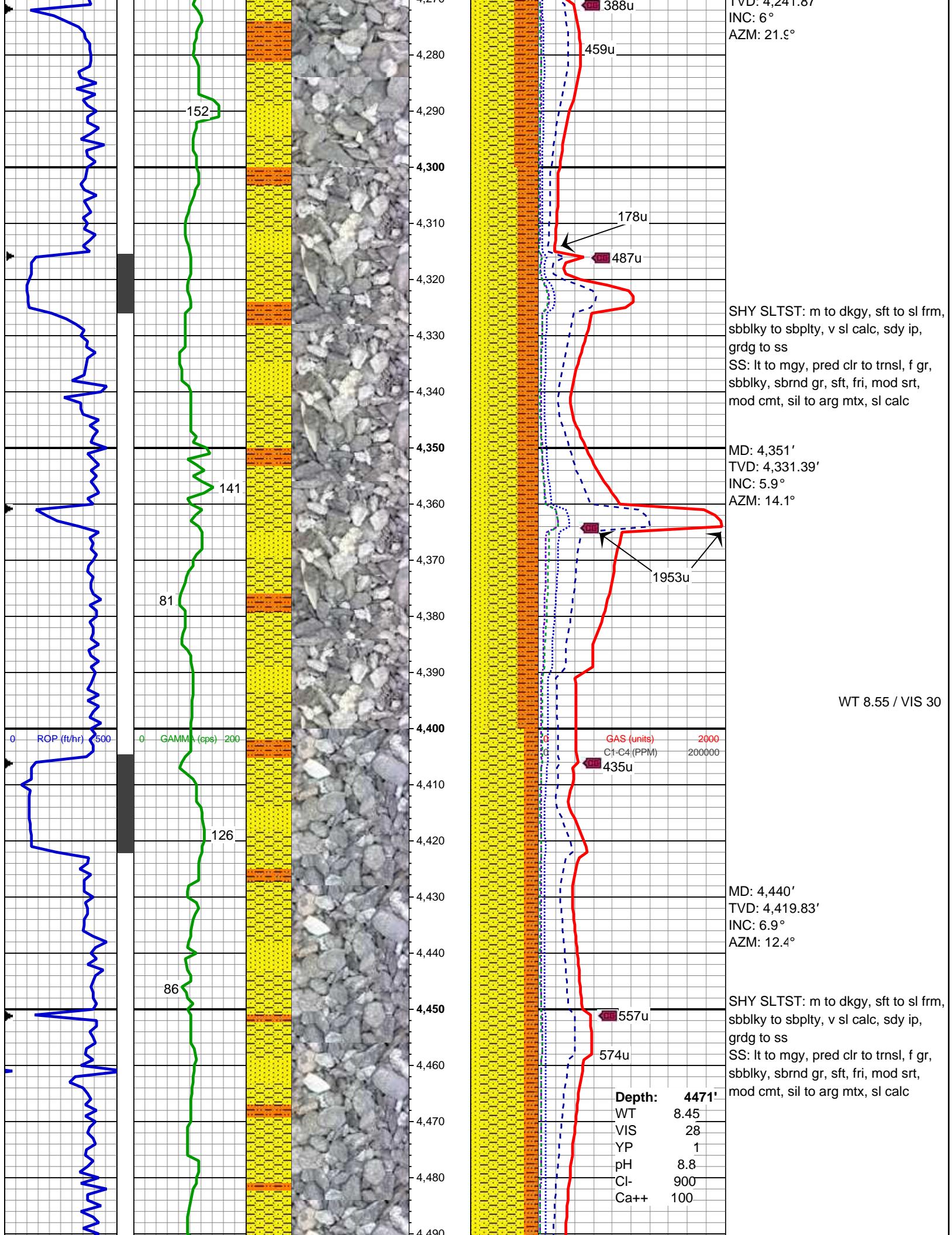


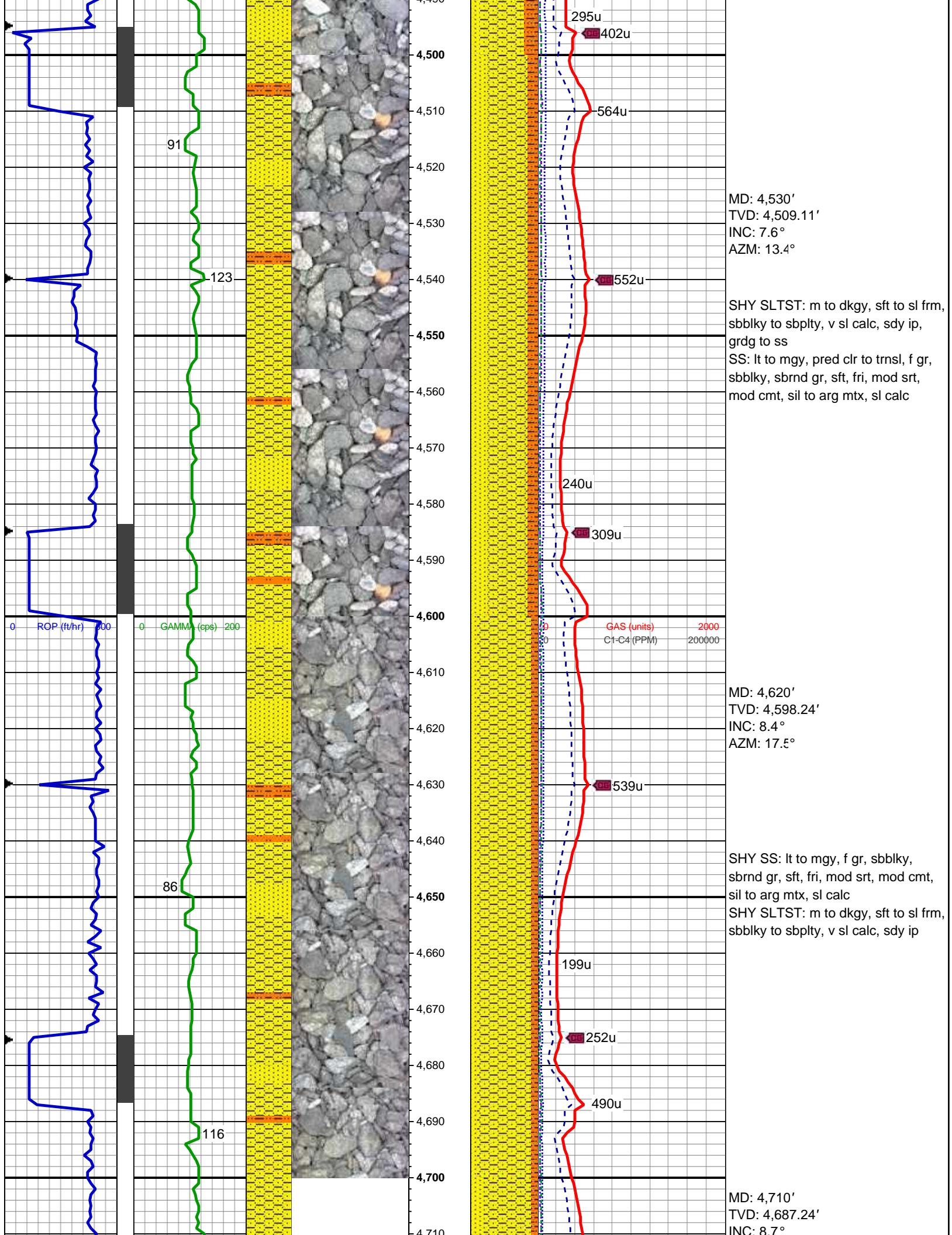


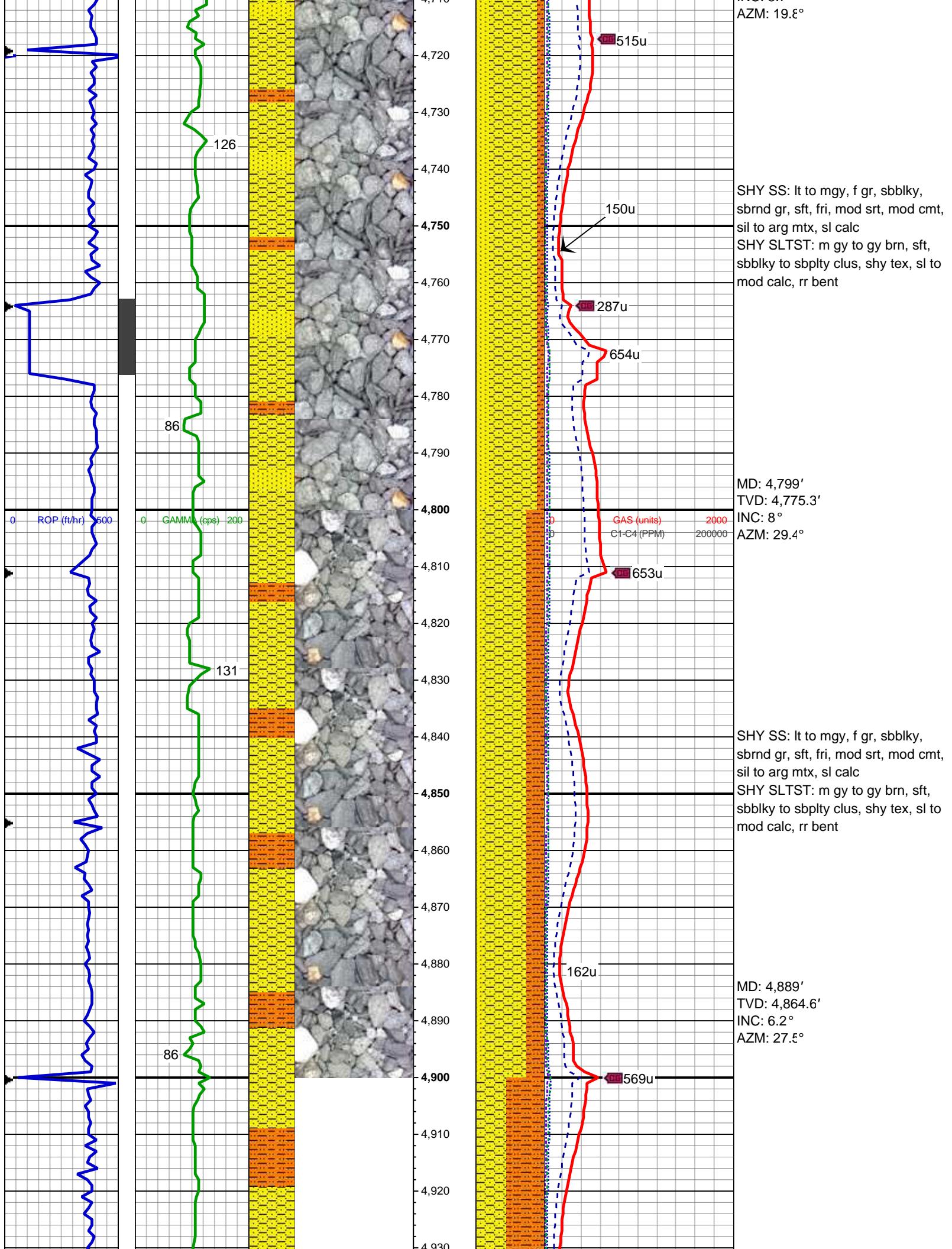


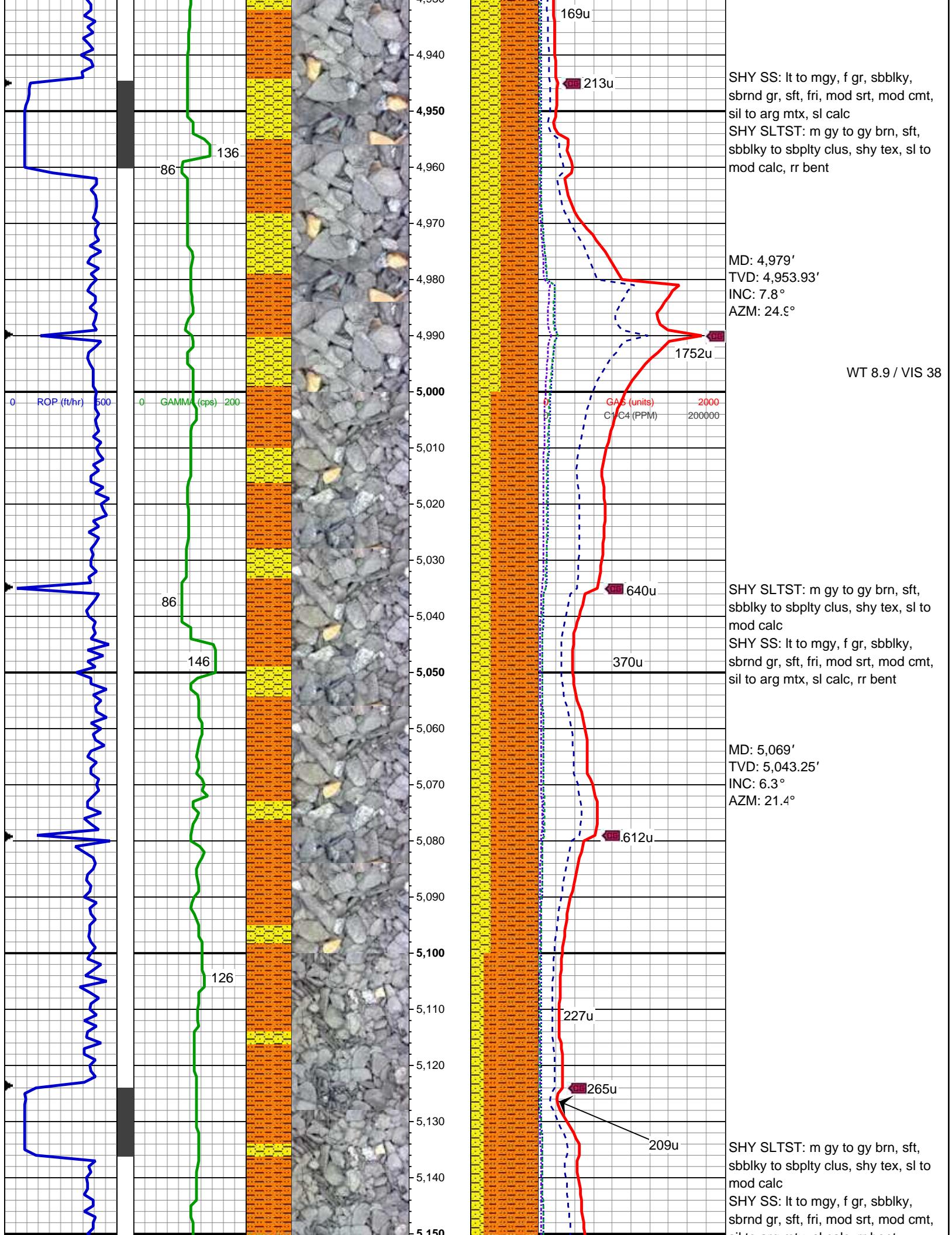












sil to arg mtx, sl calc, rr bent

MD: 5,159'
TVD: 5,132.74'
INC: 5.9°
AZM: 19.9°

WT 9.05 / VIS 39

SHY SLTST: m gy to gy brn, sft, sbblky to sbplty clus, shy tex, sl to mod calc
SHY SS: lt to mgy, f gr, sbblky, sbrnd gr, sft, fri, mod srt, mod cmt, sil to arg mtx, sl calc, tr bent

MD: 5,249'
TVD: 5,222.28'
INC: 5.6°
AZM: 18.6°

WT 8.9 / VIS 38

MD: 5,338'
TVD: 5,310.84'
INC: 5.8°
AZM: 22.8°

SHY SLTST: m gy, sft - frm, sbblky sbplty, slyt - shy tex, aren ip, sl calc

