

COLUMBINE LOGGING

Scale: 5" / 100'
Measured Depth Log

Well Name Resolute E25-63HN

Location SESE SEC26 T6N R65W

State COLORADO

County WELD

Country USA

Rig Number PRECISION 828

API Number 05-123-38158

AFE # 1139762

Region DENVER JULESBURG BASIN

Field WATTENBERG

Spud Date 5/30/2014

Drilling Completed 6/5/2014

Surface Coordinates 350' FSL, 280' FEL

Lat/Long: 40.45065/-104.62175

Ground Elevation 4676'

K.B. Elevation 4692'

Logged Interval 626'

To 6320'

Total Depth 11151'

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

Type of Drilling Fl... FRESH WATER, LSND

Operator

Company NOBLE ENERGY INC.

Address 1625 Broadway
Denver, CO 80202

Geologist

Name EVAN HOWELL


Company NOBLE ENERGY, INC.

Address 1625 Broadway
Denver, CO 80202

Other





Wellsite Geologists: GARY MYERS, GABRIEL RUBIO

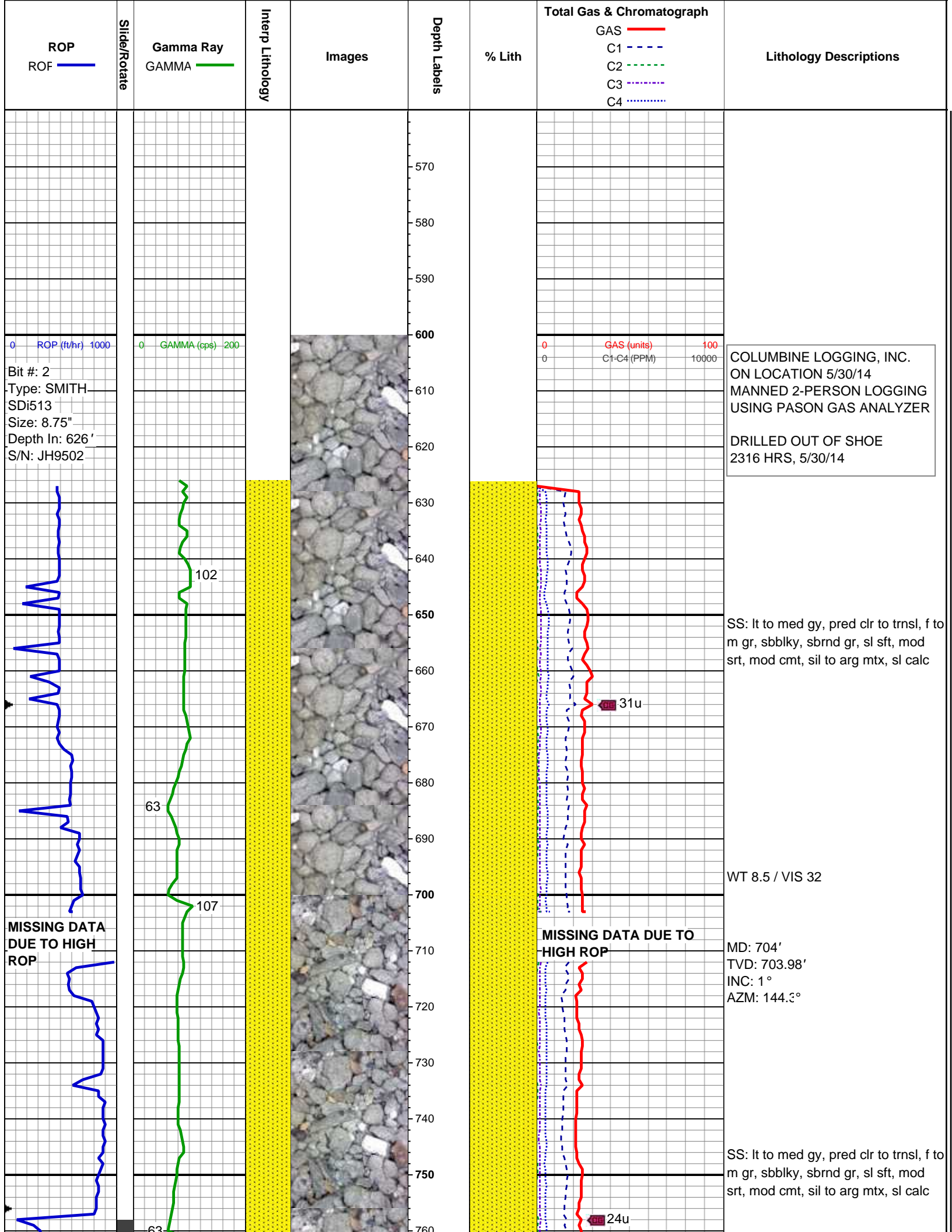
Rock Types

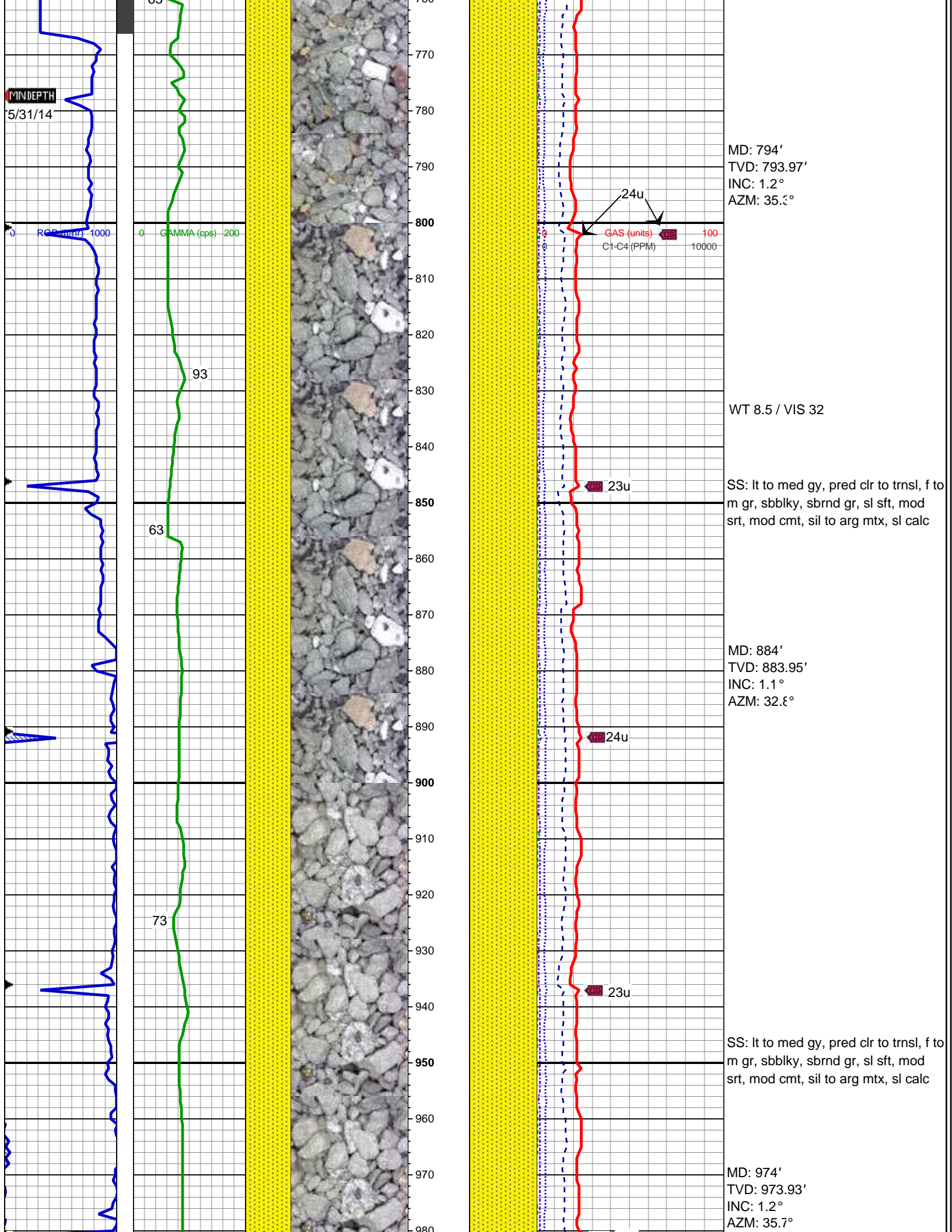
 SANDSTONE  SHALY SANDSTONE  SHALY SILTSTONE  SILTY SHALE

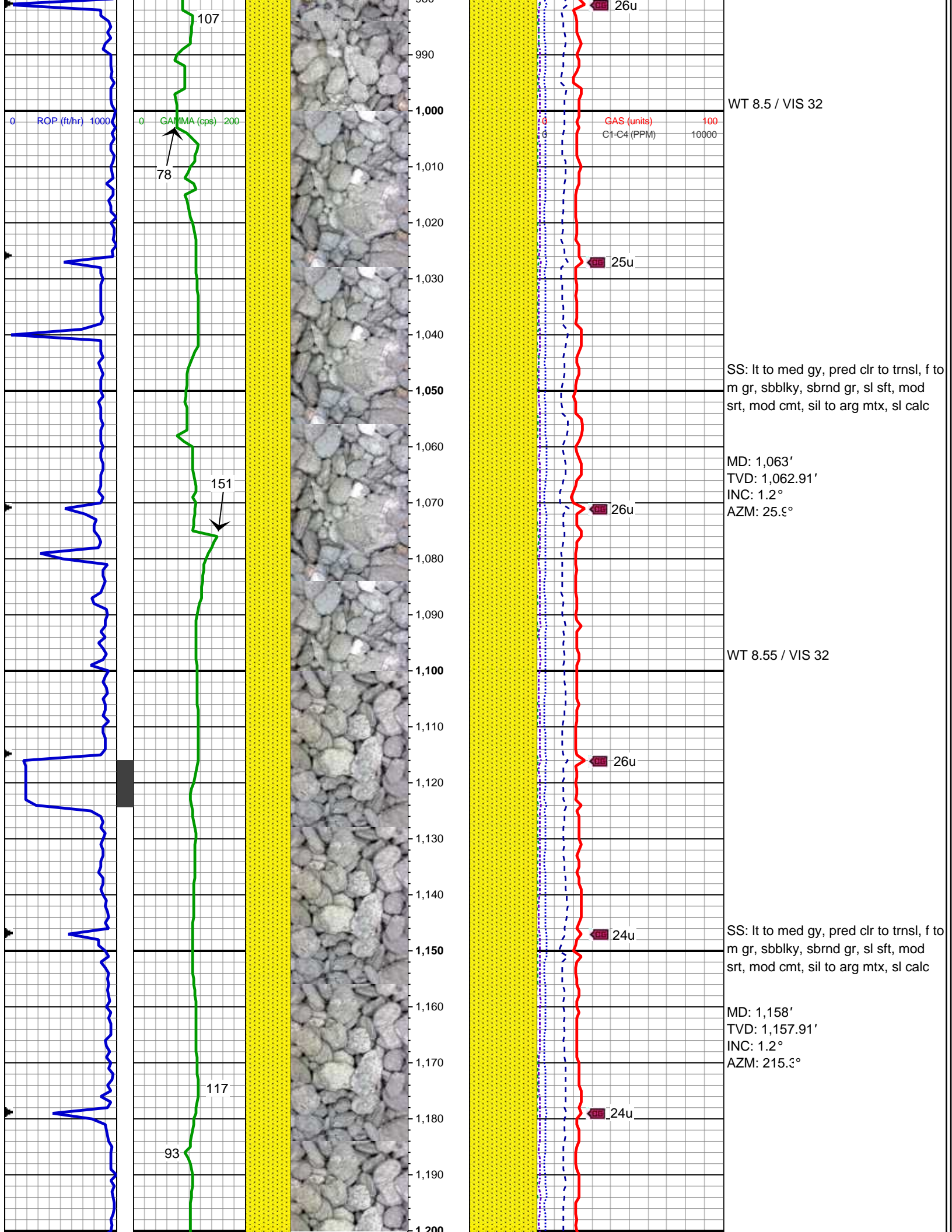
Other Symbols

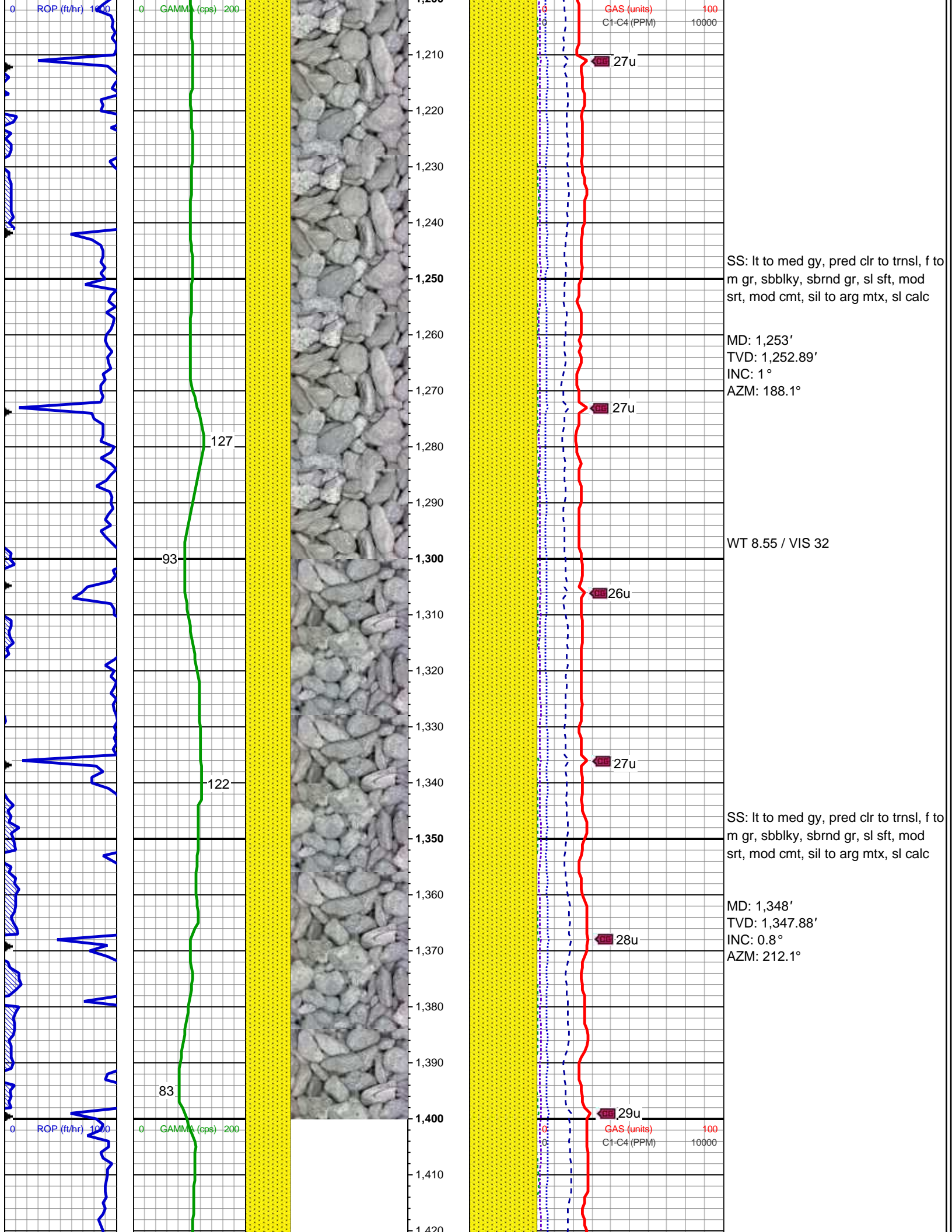
Engineering

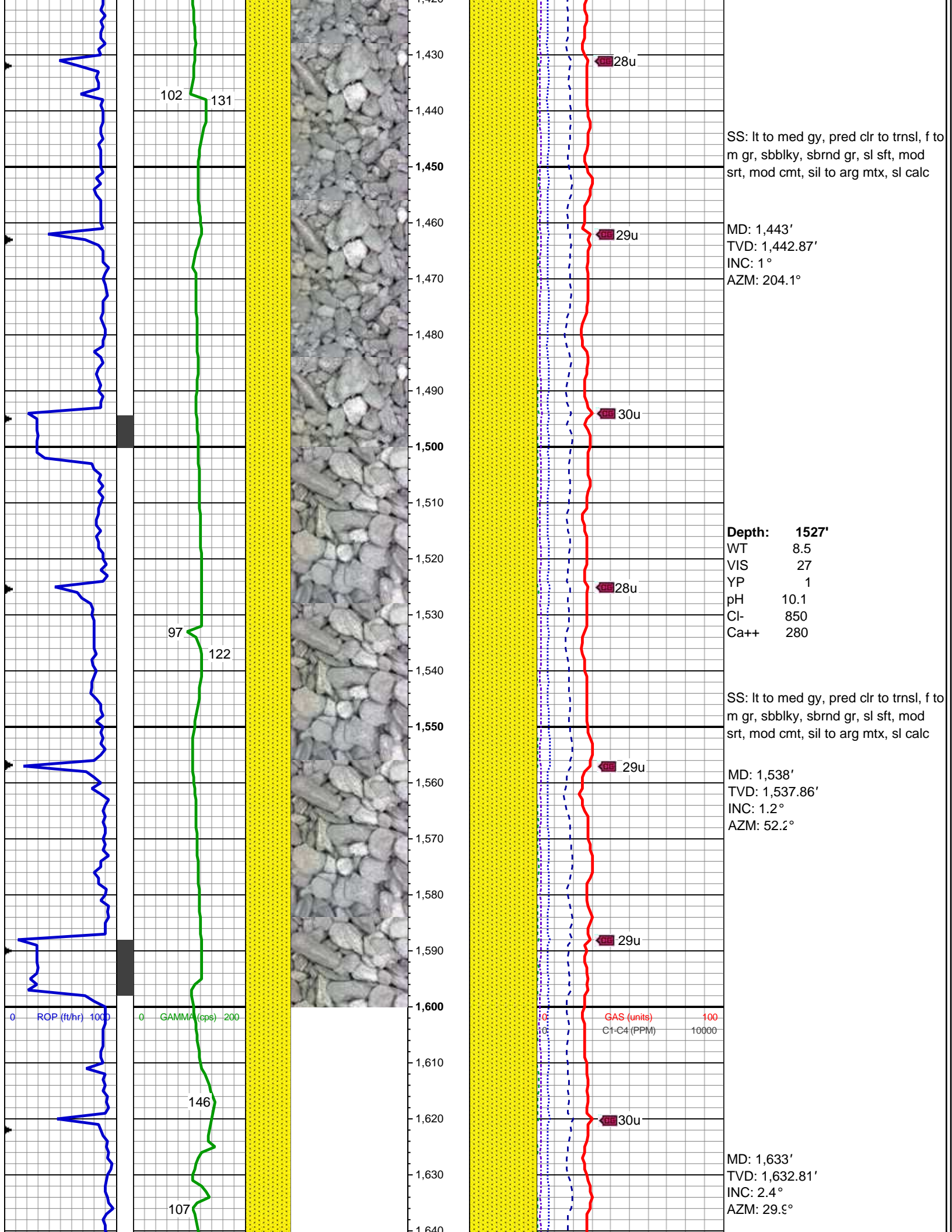
-  CONNECTION (RIGHT)
-  CONNECTION GAS
-  MN DEPTH
-  MN DEPTH (RIGHT)

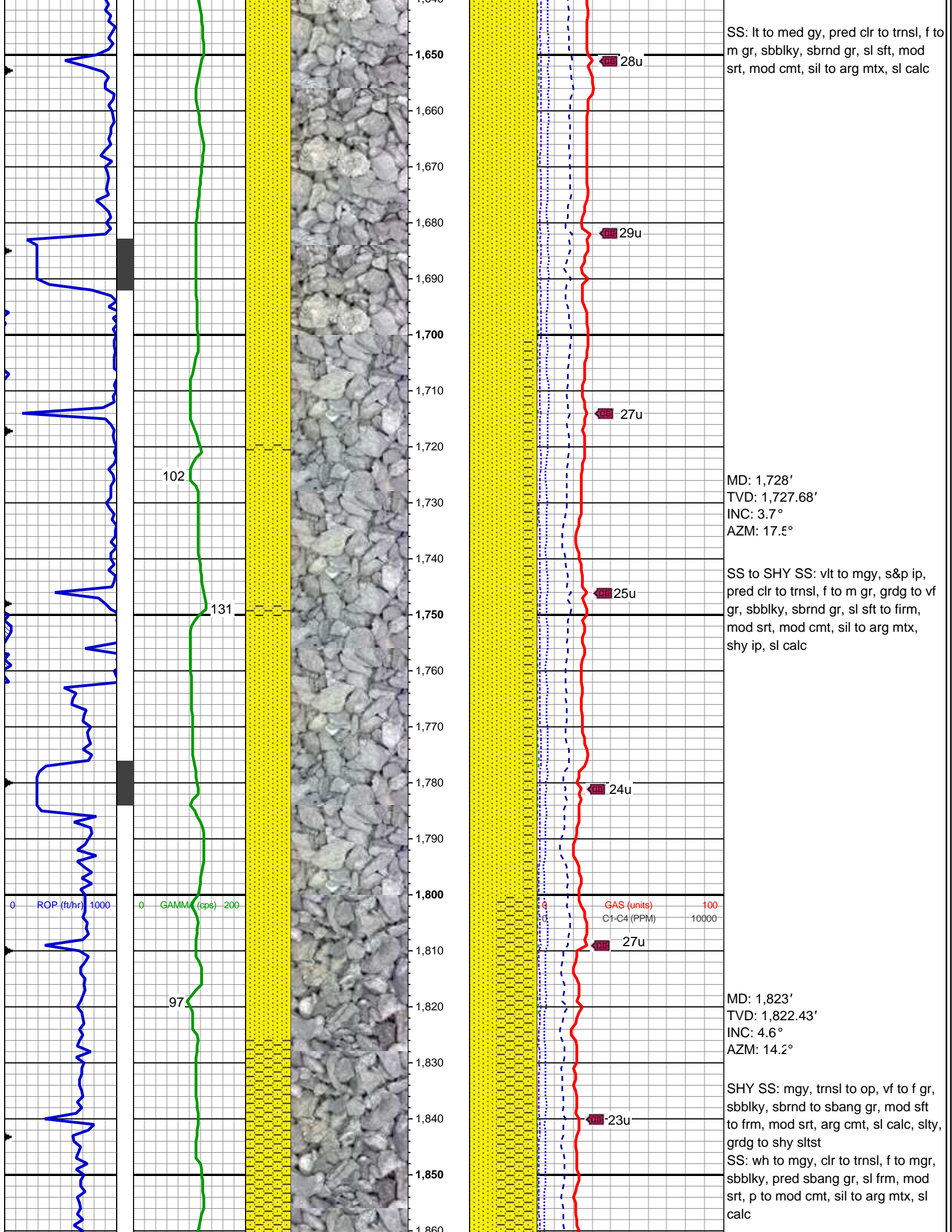












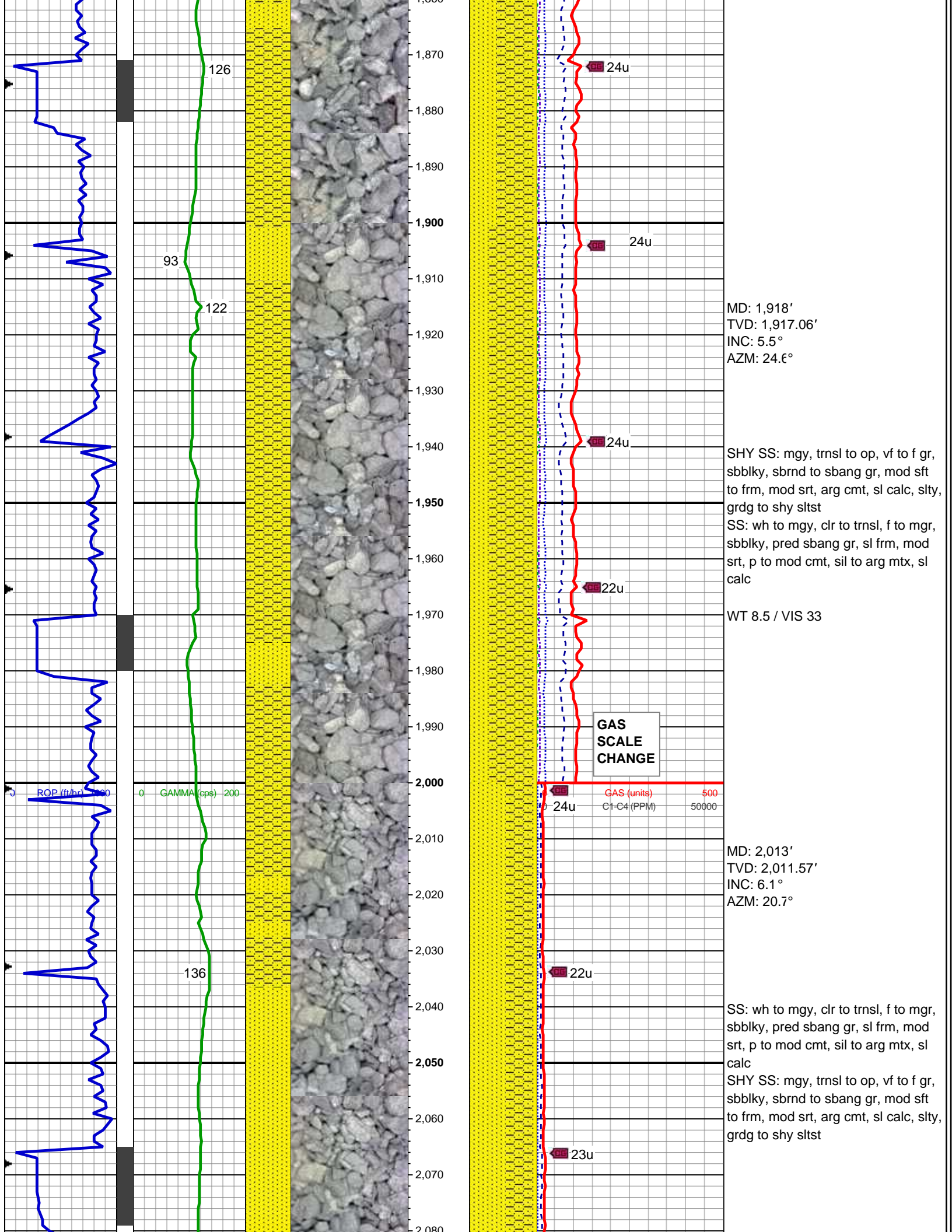
SS: lt to med gy, pred clr to trns, f to m gr, sbbly, sbrnd gr, sl sft, mod srt, mod cmt, sil to arg mtx, sl calc

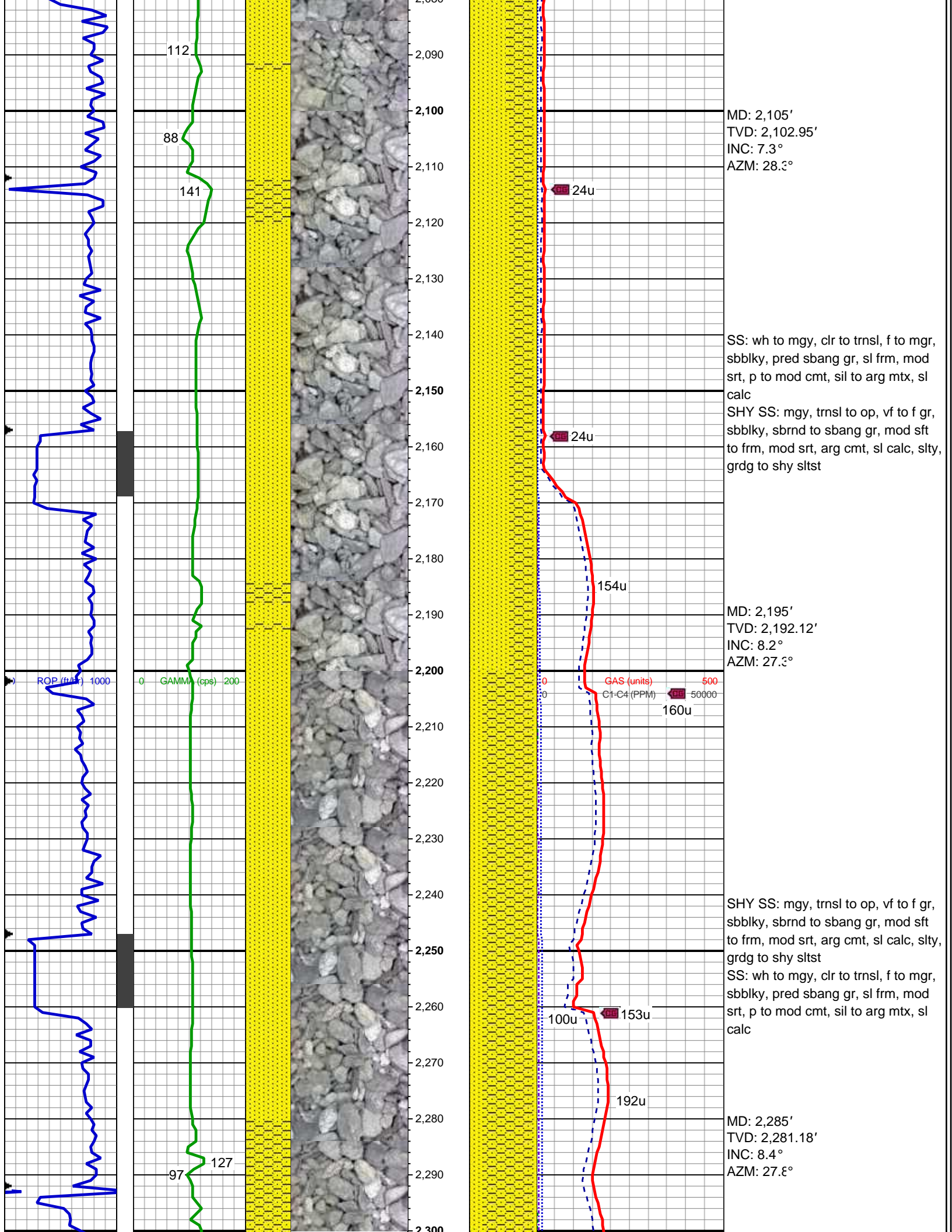
MD: 1,728'
TVD: 1,727.68'
INC: 3.7°
AZM: 17.5°

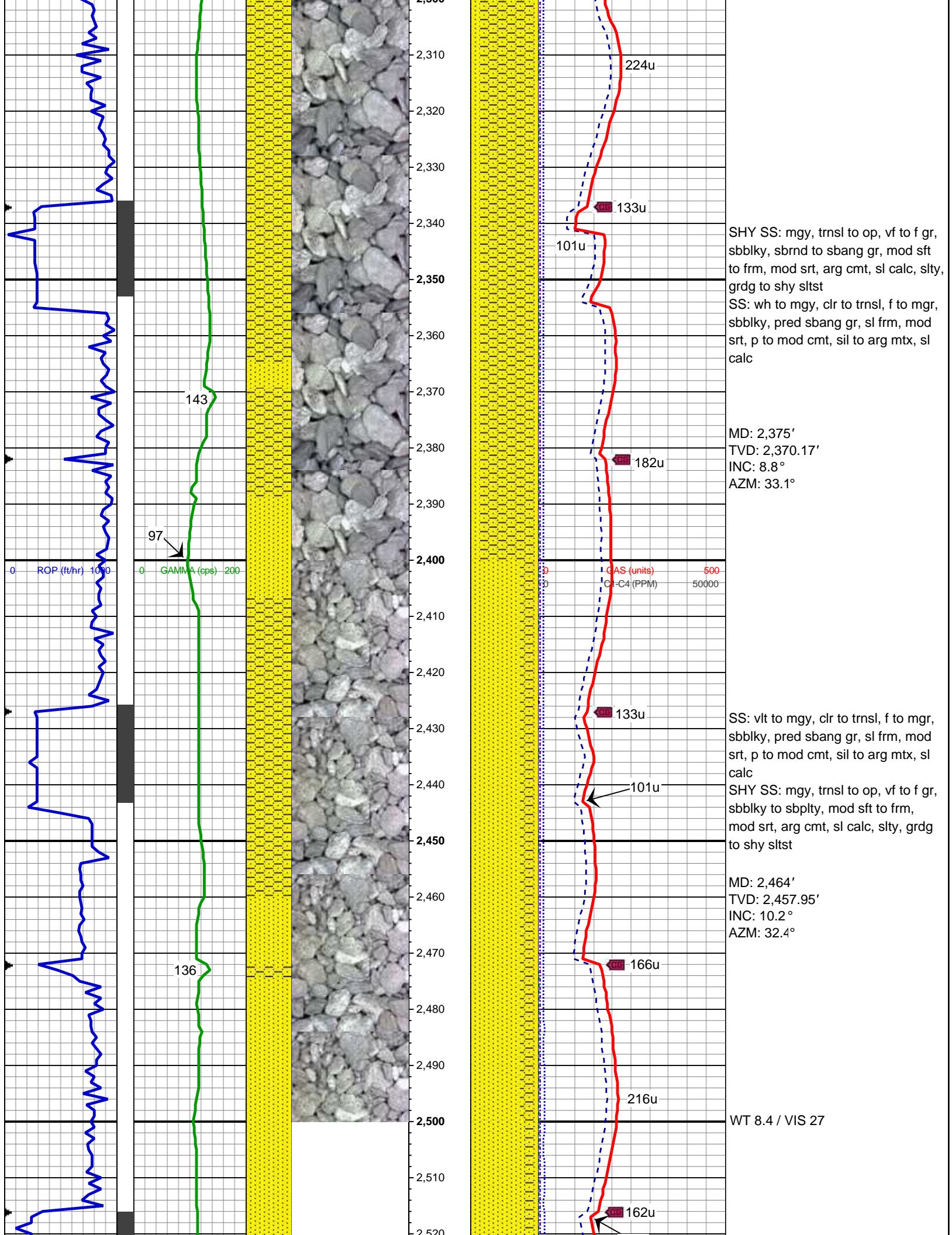
SS to SHY SS: vlt to mgy, s&p ip, pred clr to trns, f to m gr, grd to vf gr, sbbly, sbrnd gr, sl sft to frm, mod srt, mod cmt, sil to arg mtx, shy ip, sl calc

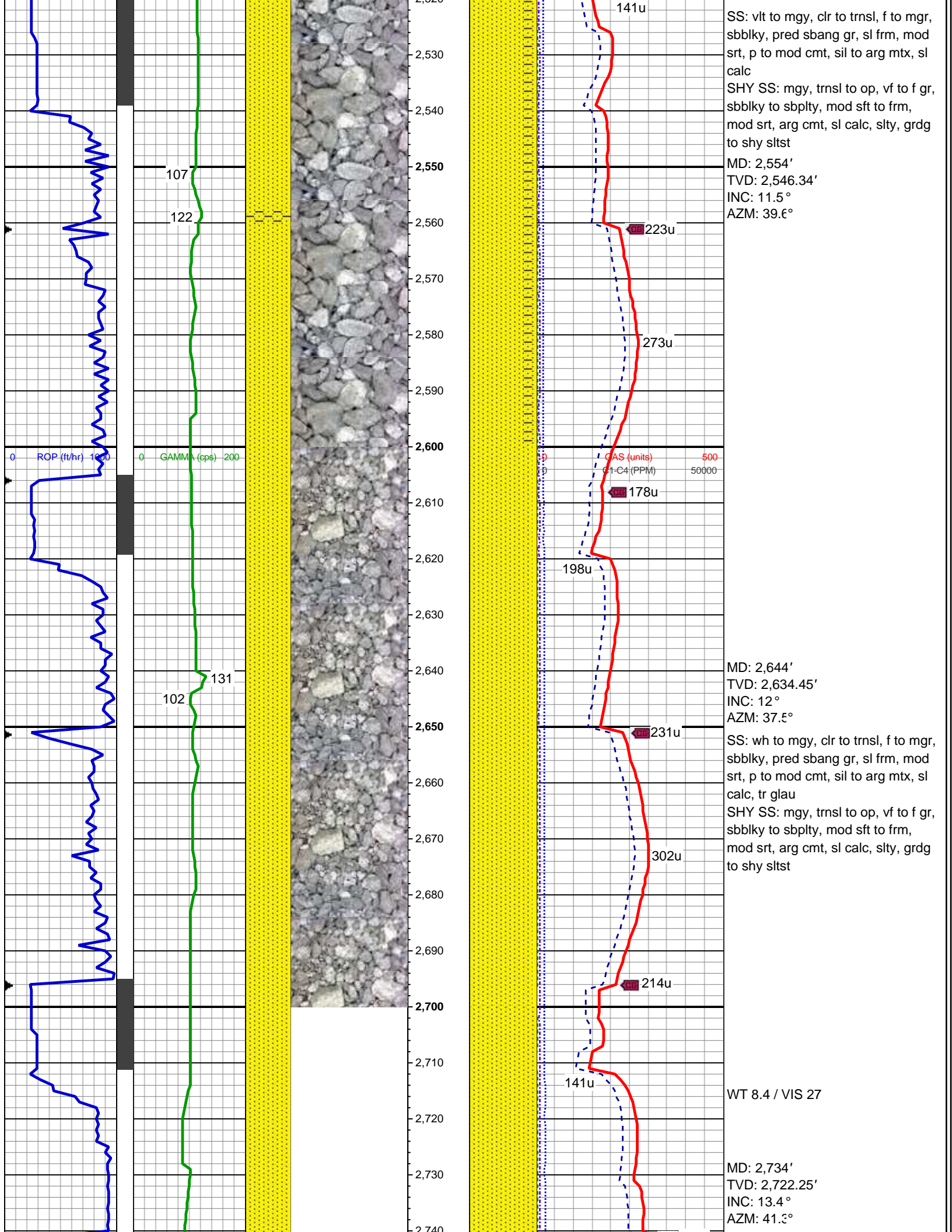
MD: 1,823'
TVD: 1,822.43'
INC: 4.6°
AZM: 14.2°

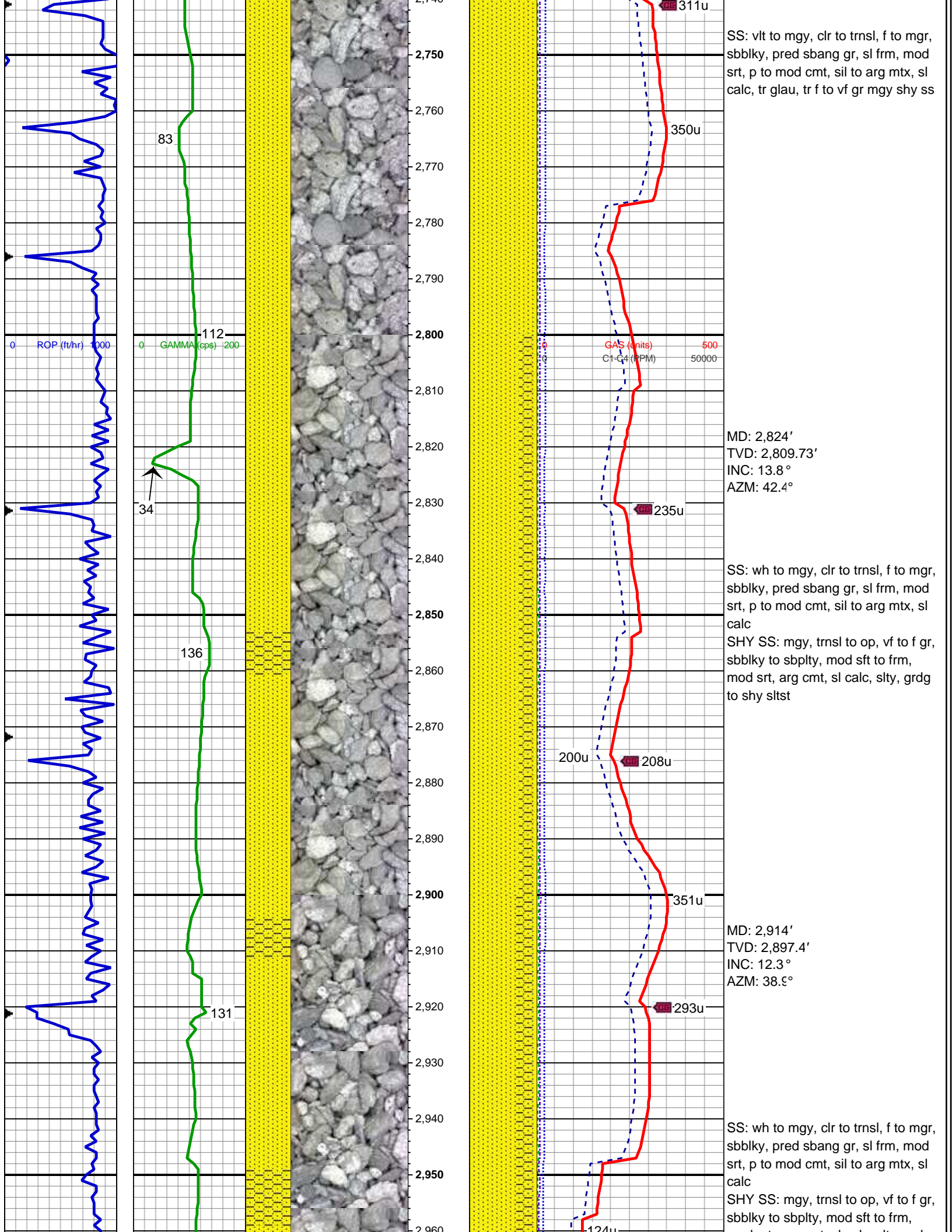
SHY SS: mgy, trns to op, vf to f gr, sbbly, sbrnd to sbang gr, mod sft to frm, mod srt, arg cmt, sl calc, slty, grd to shy sltst
SS: wh to mgy, clr to trns, f to mgr, sbbly, pred sbang gr, sl frm, mod srt, p to mod cmt, sil to arg mtx, sl calc

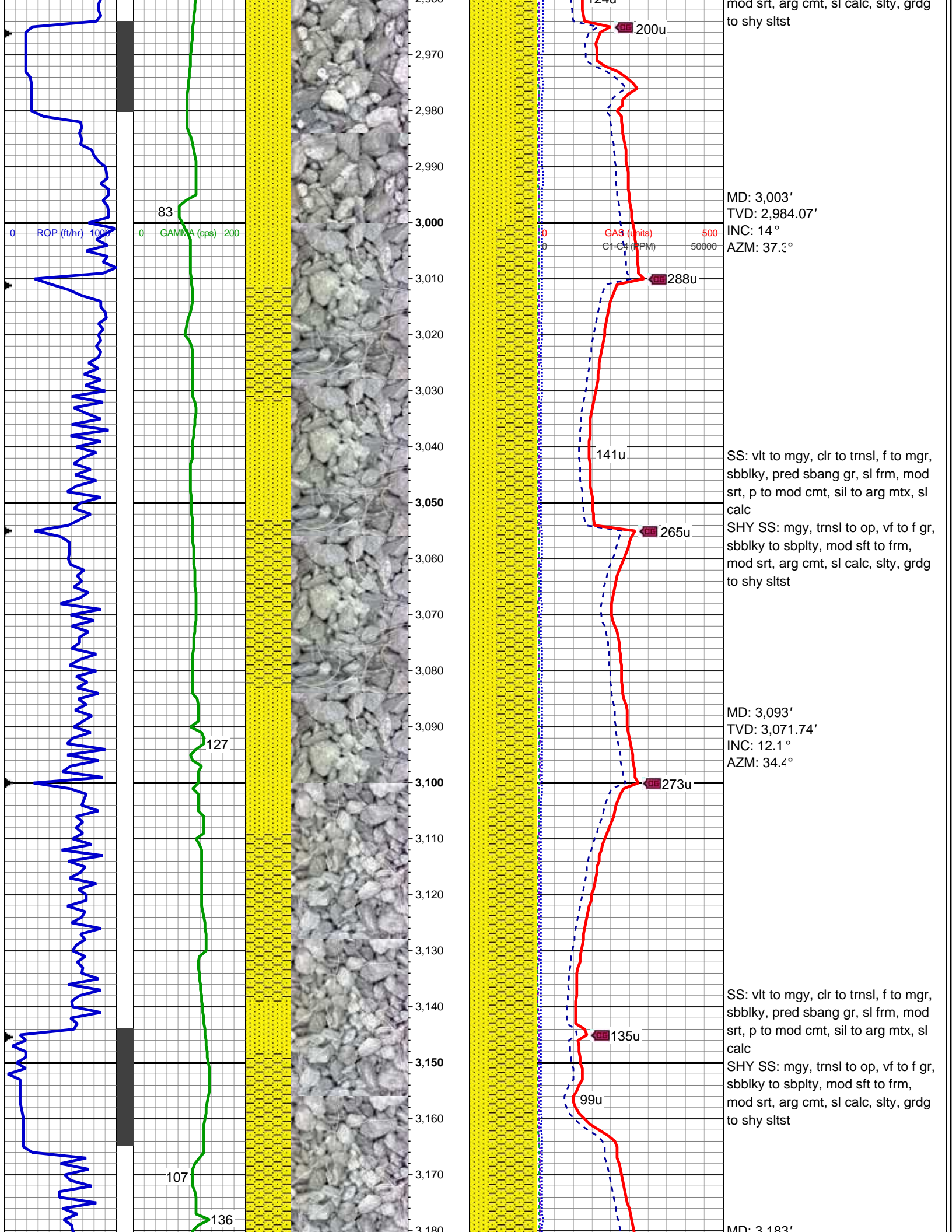


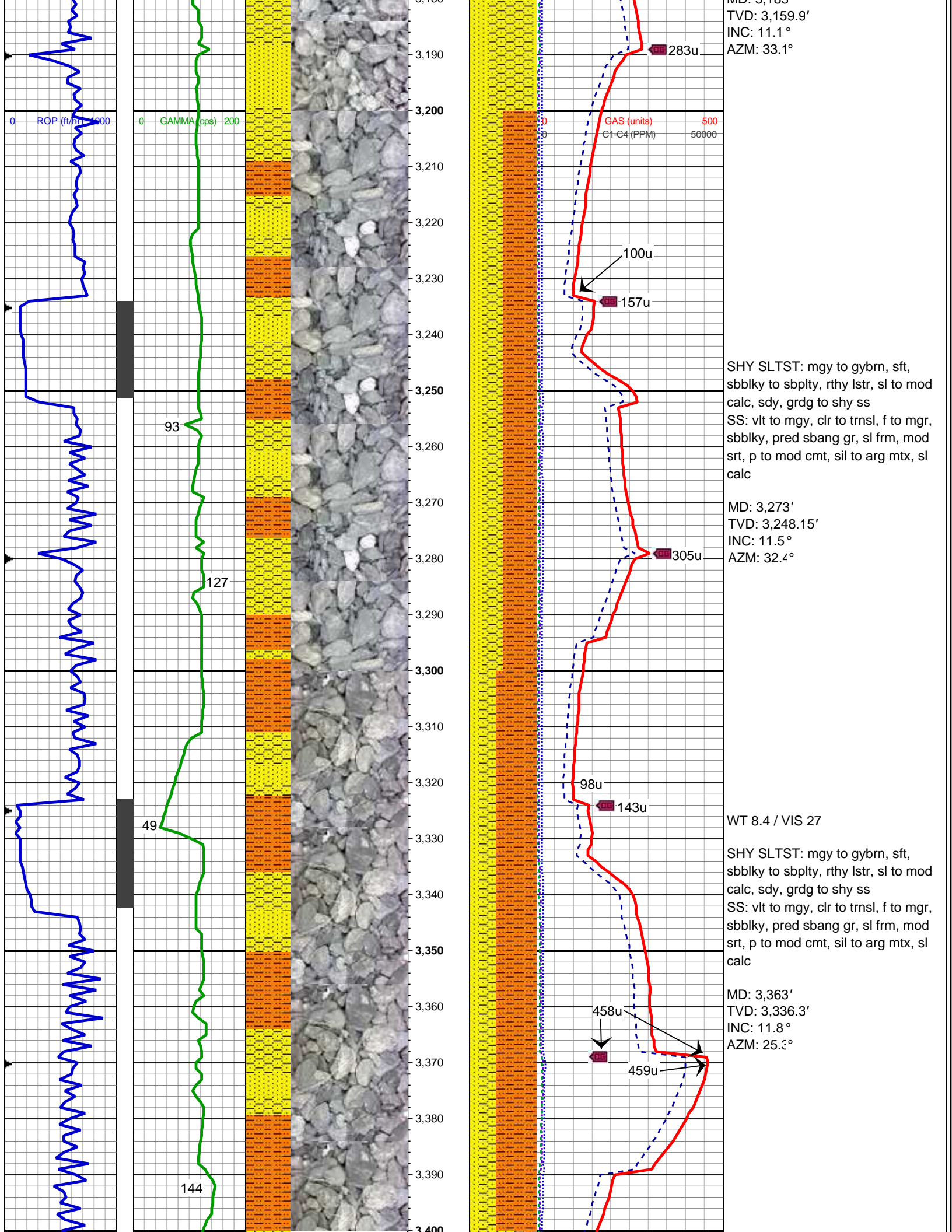


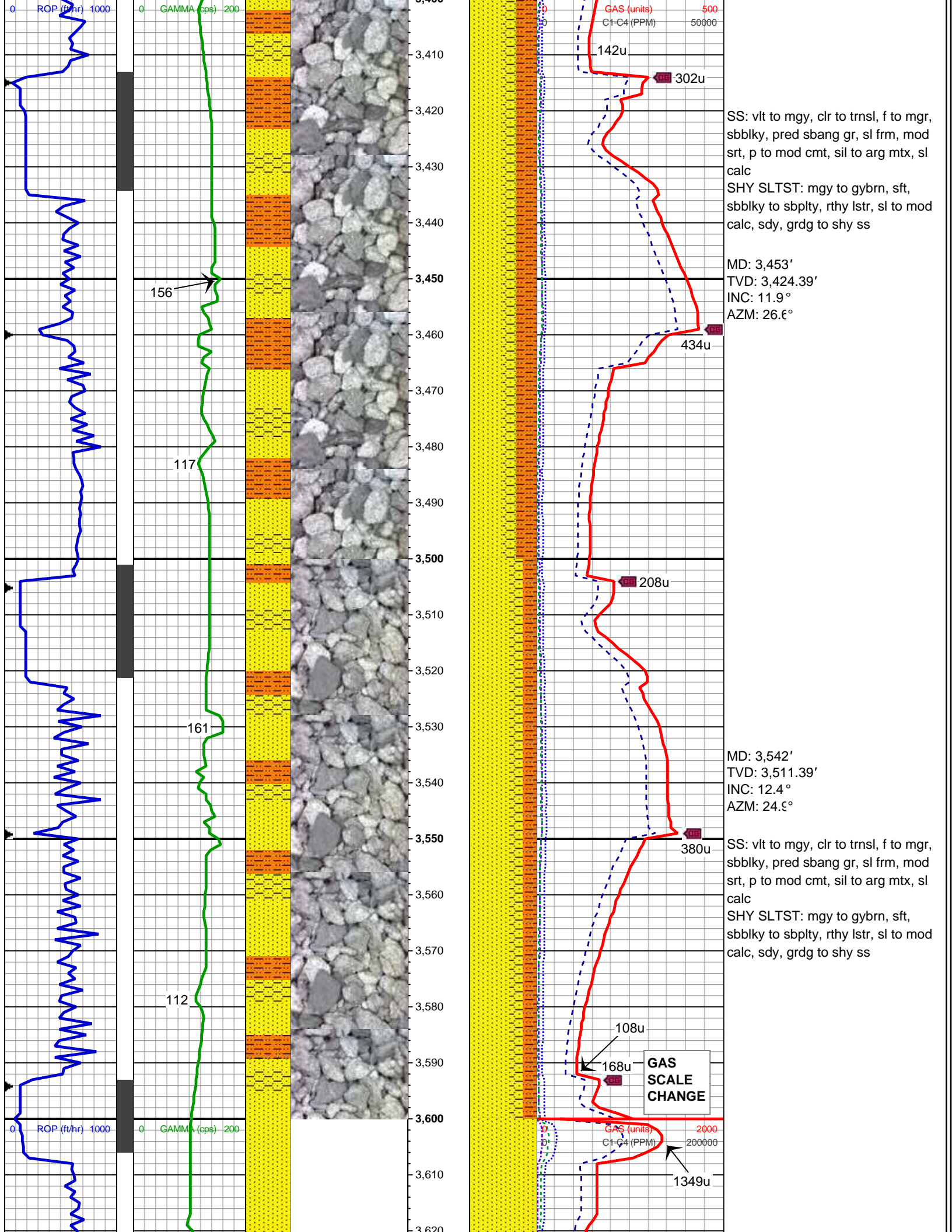


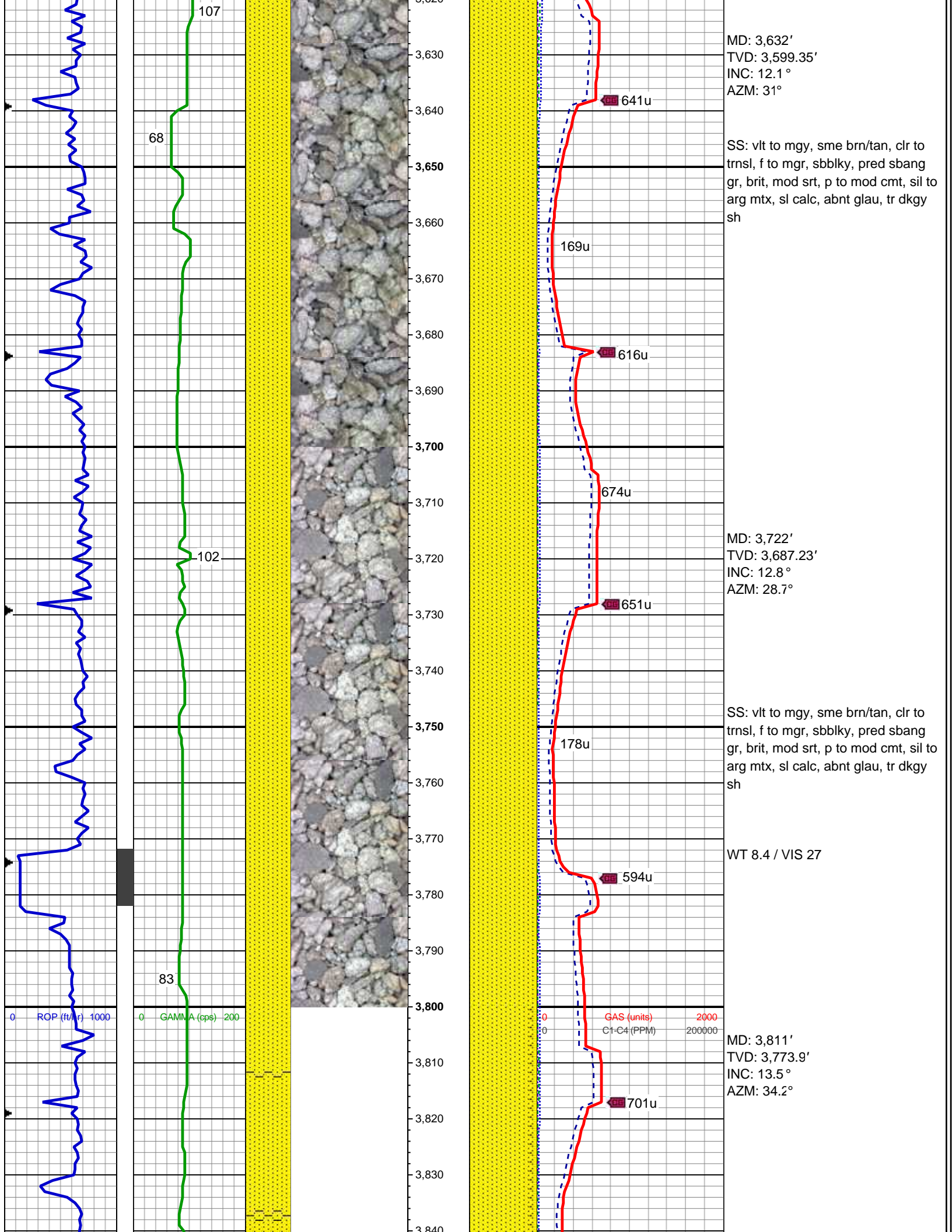


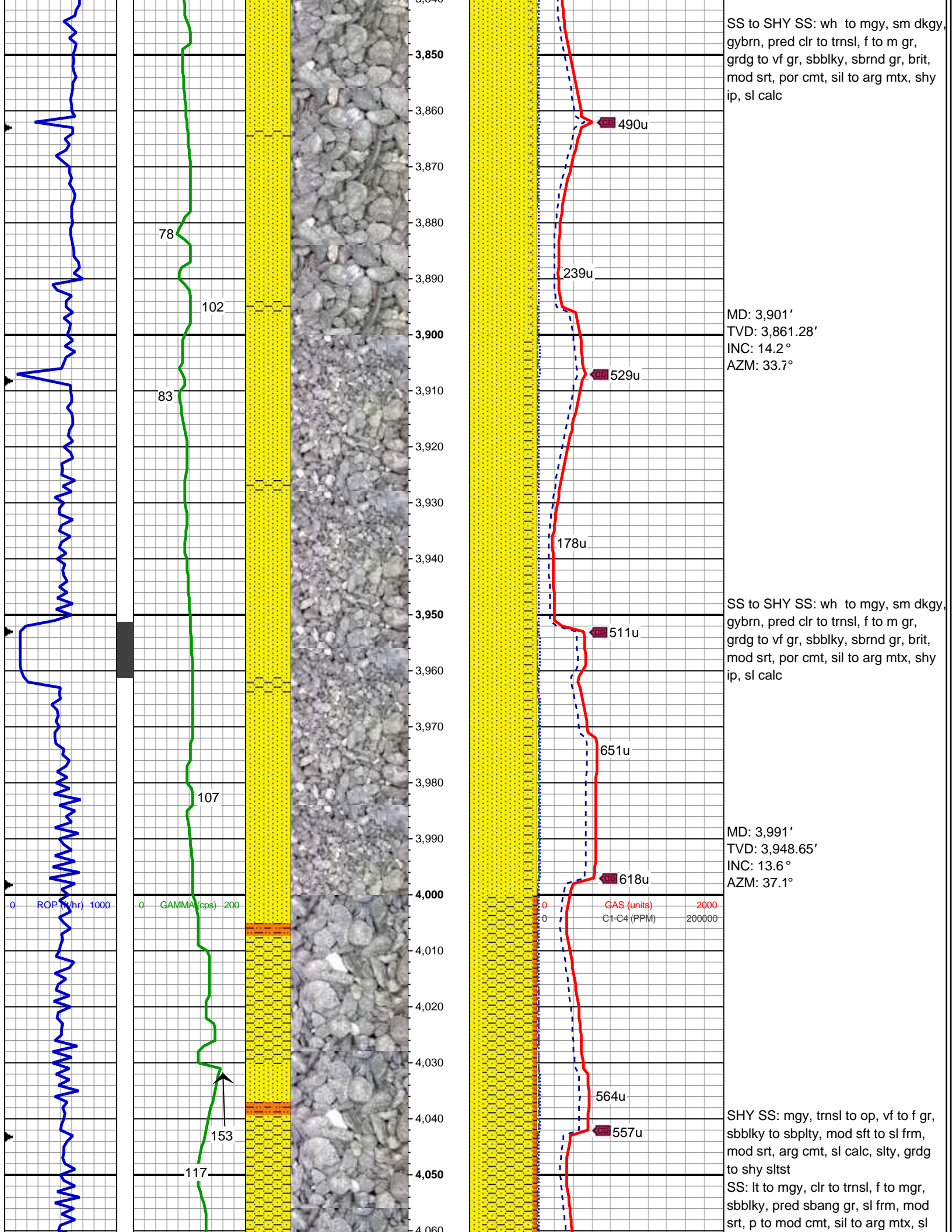


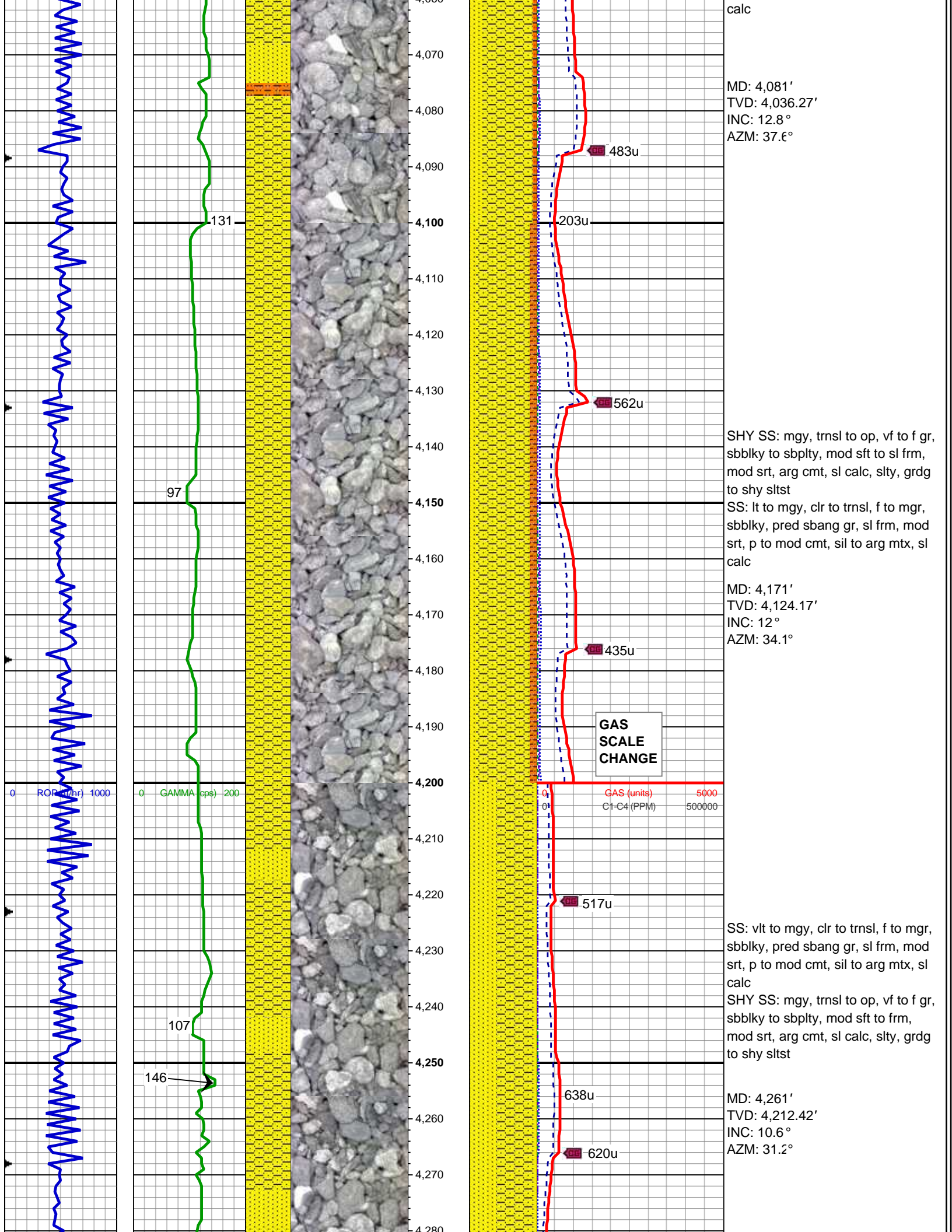


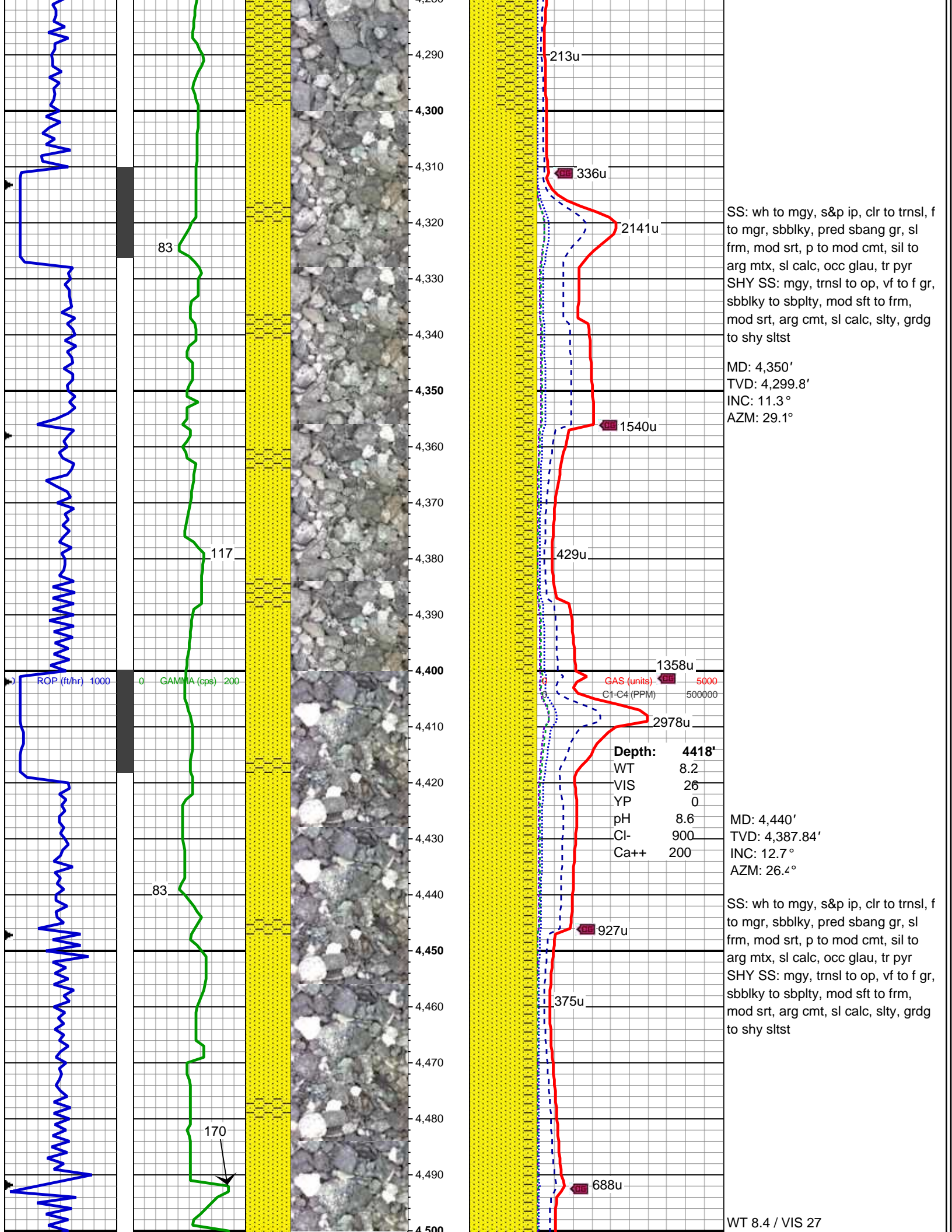


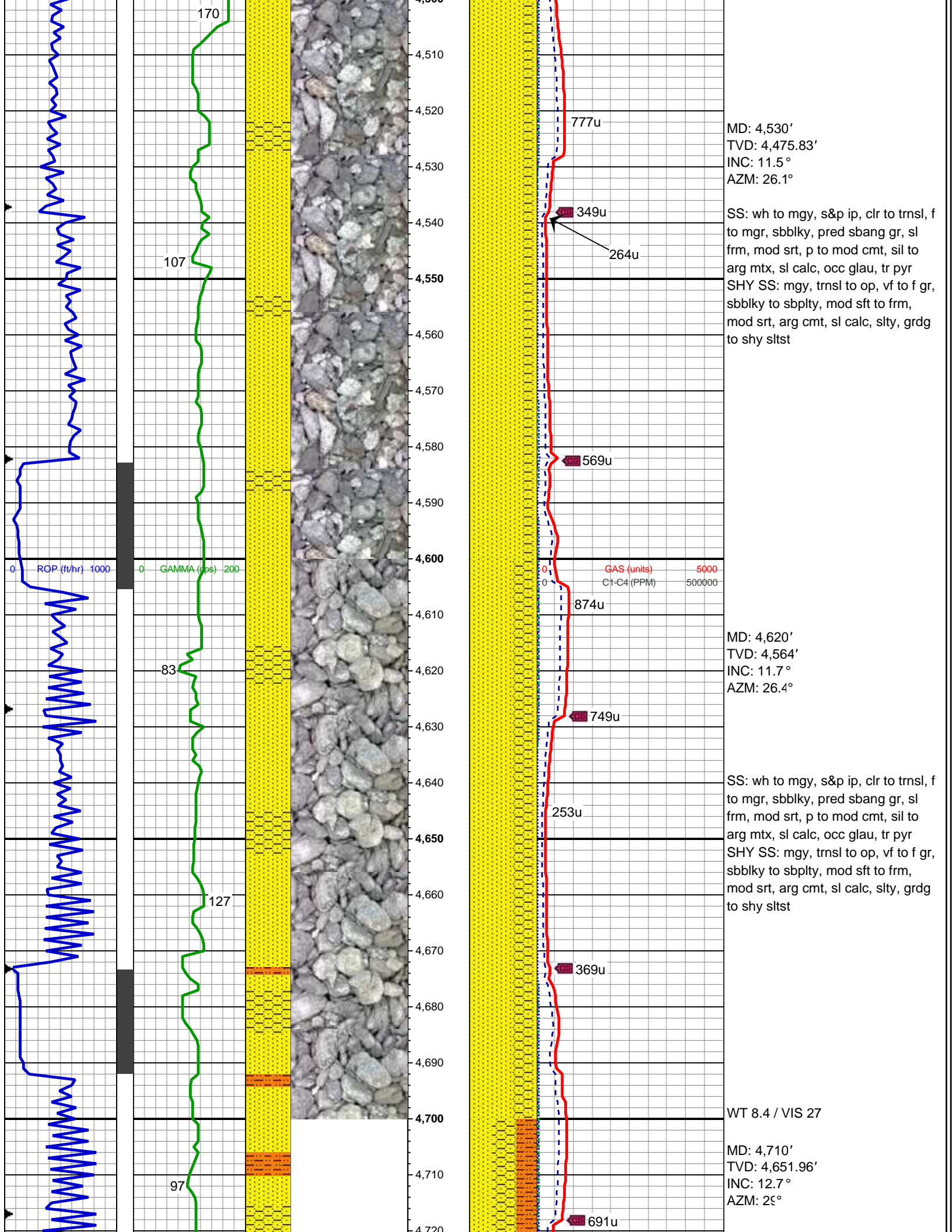


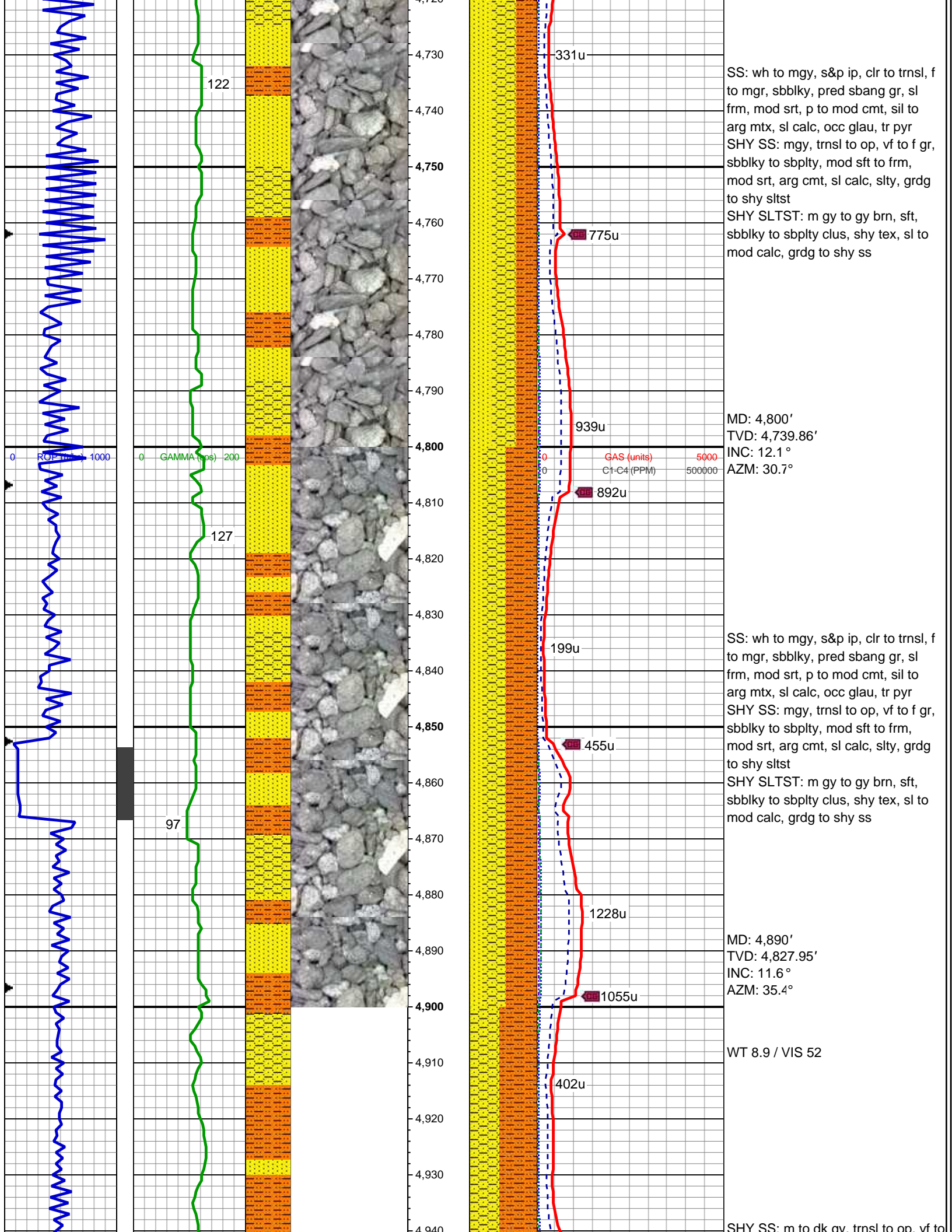


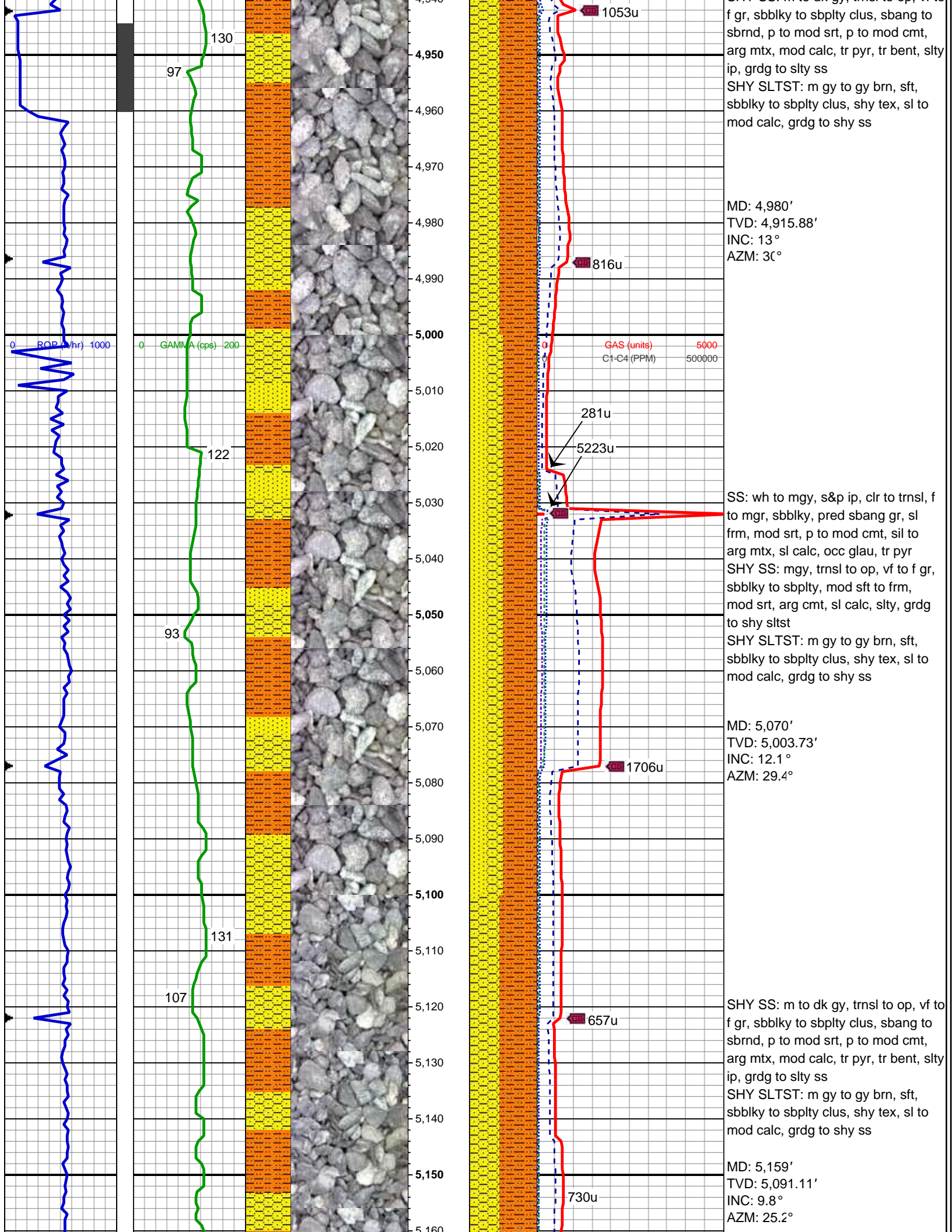


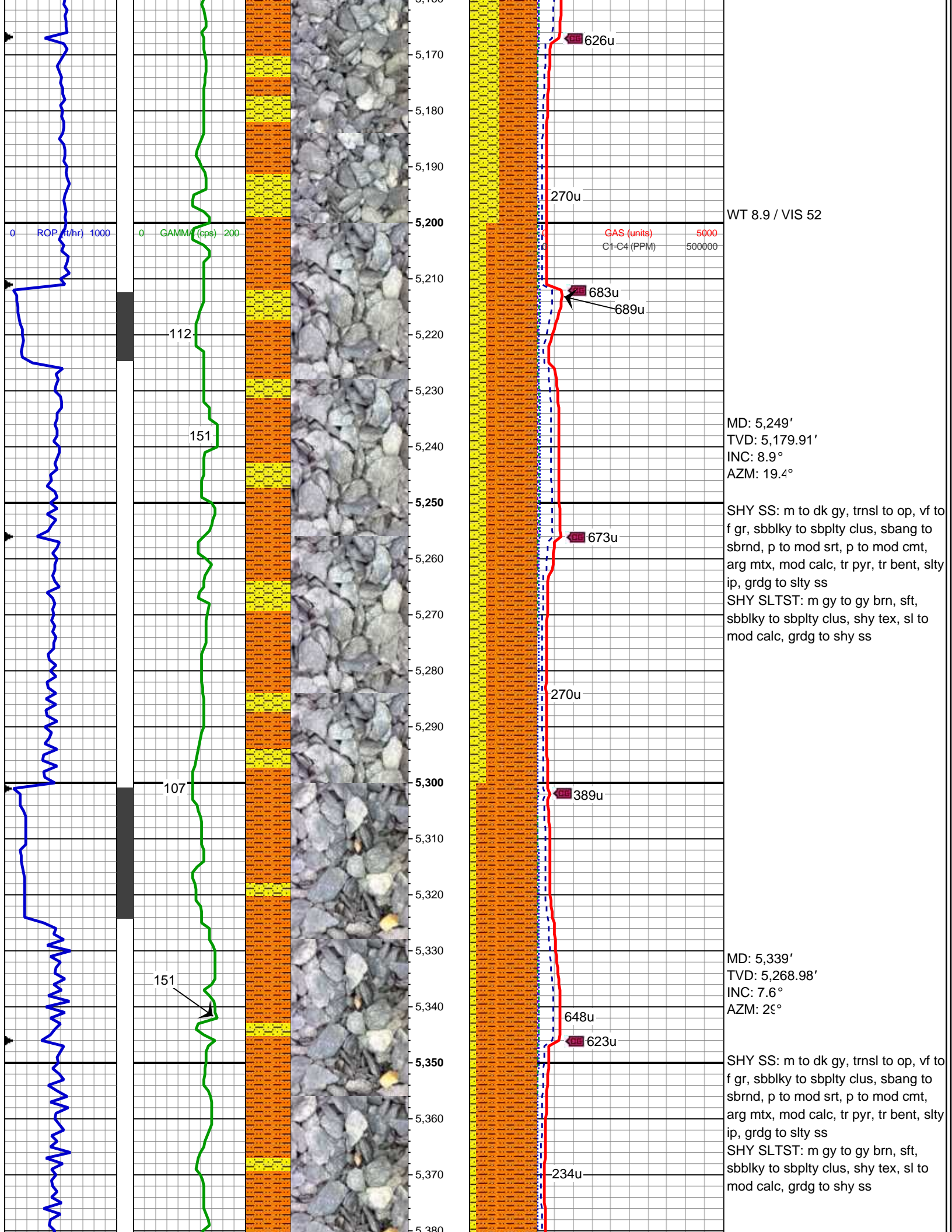


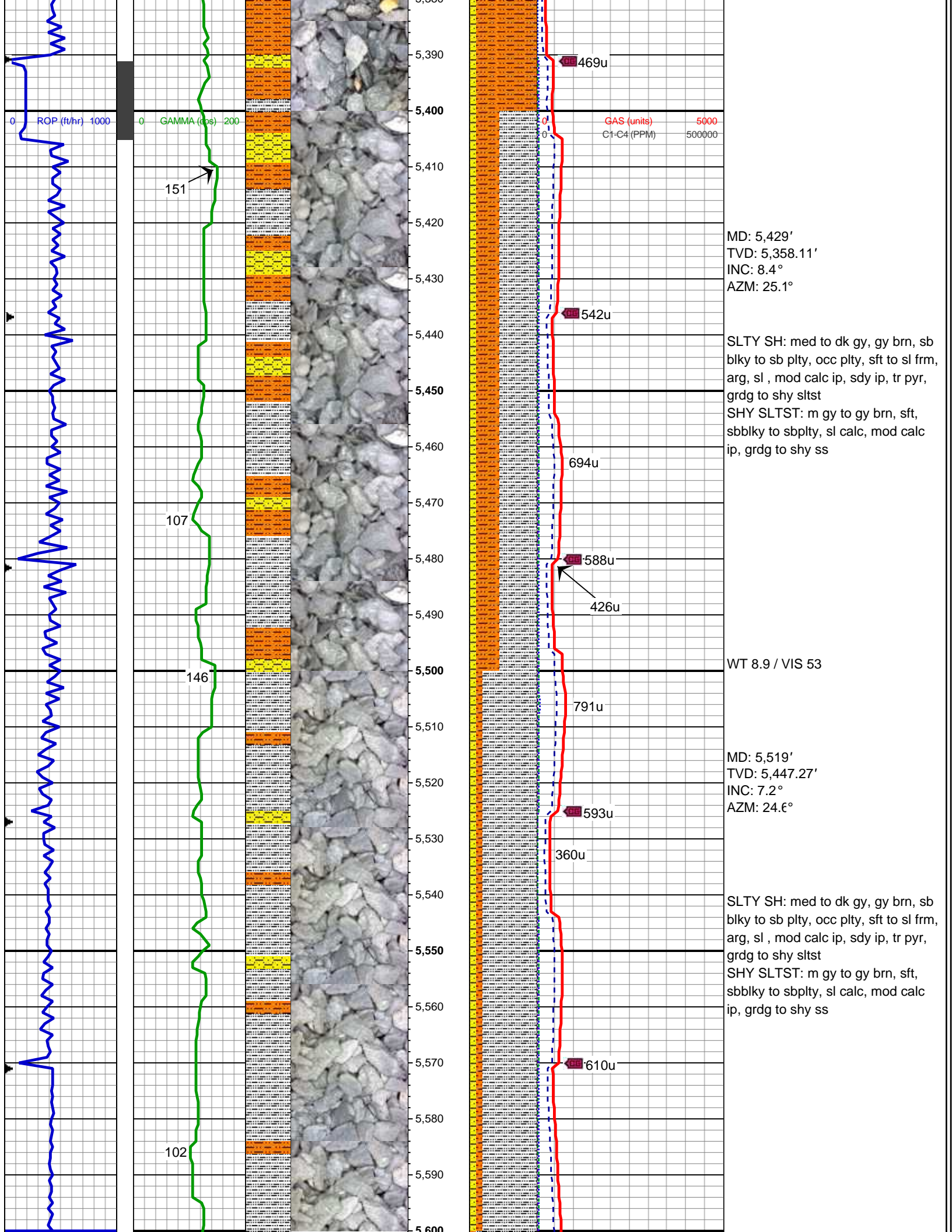


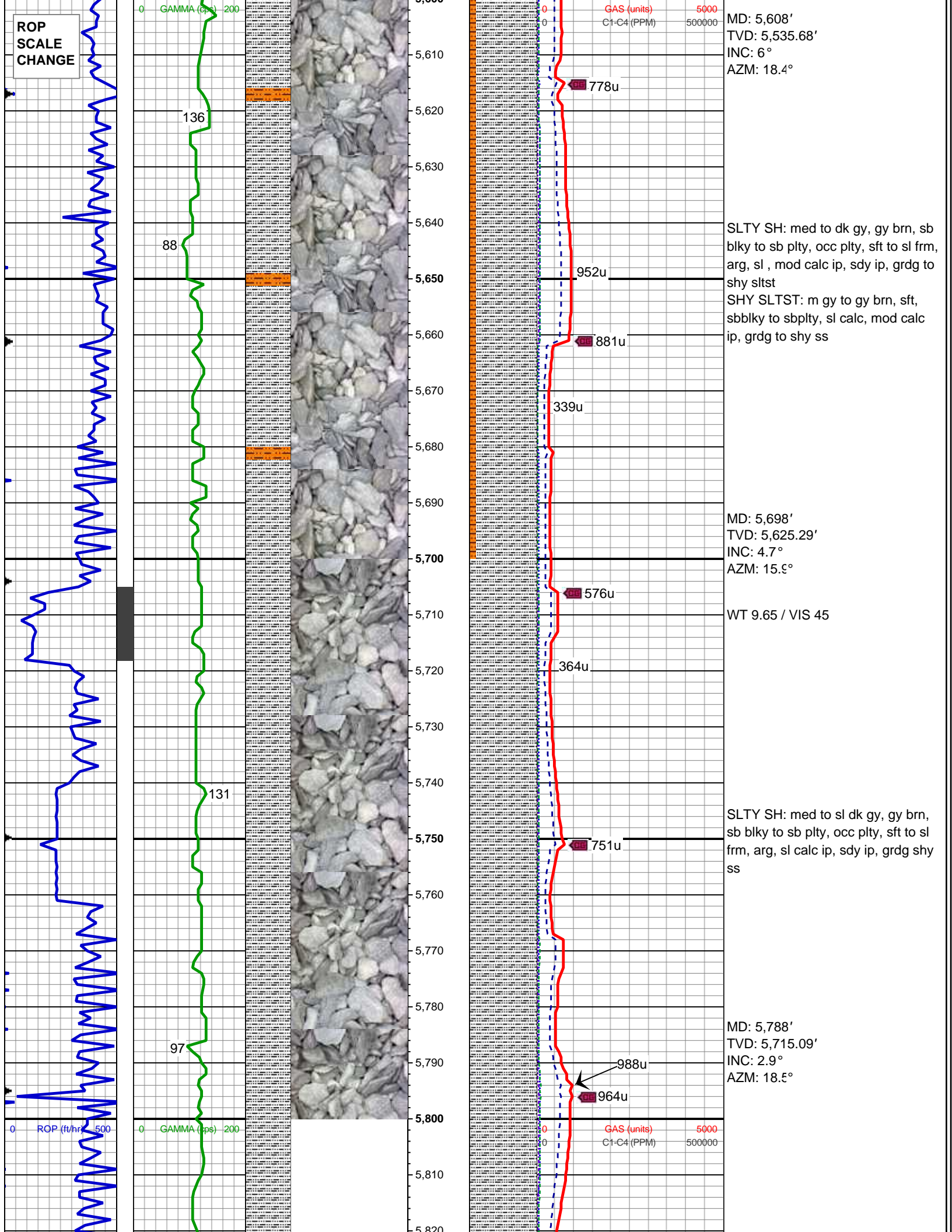


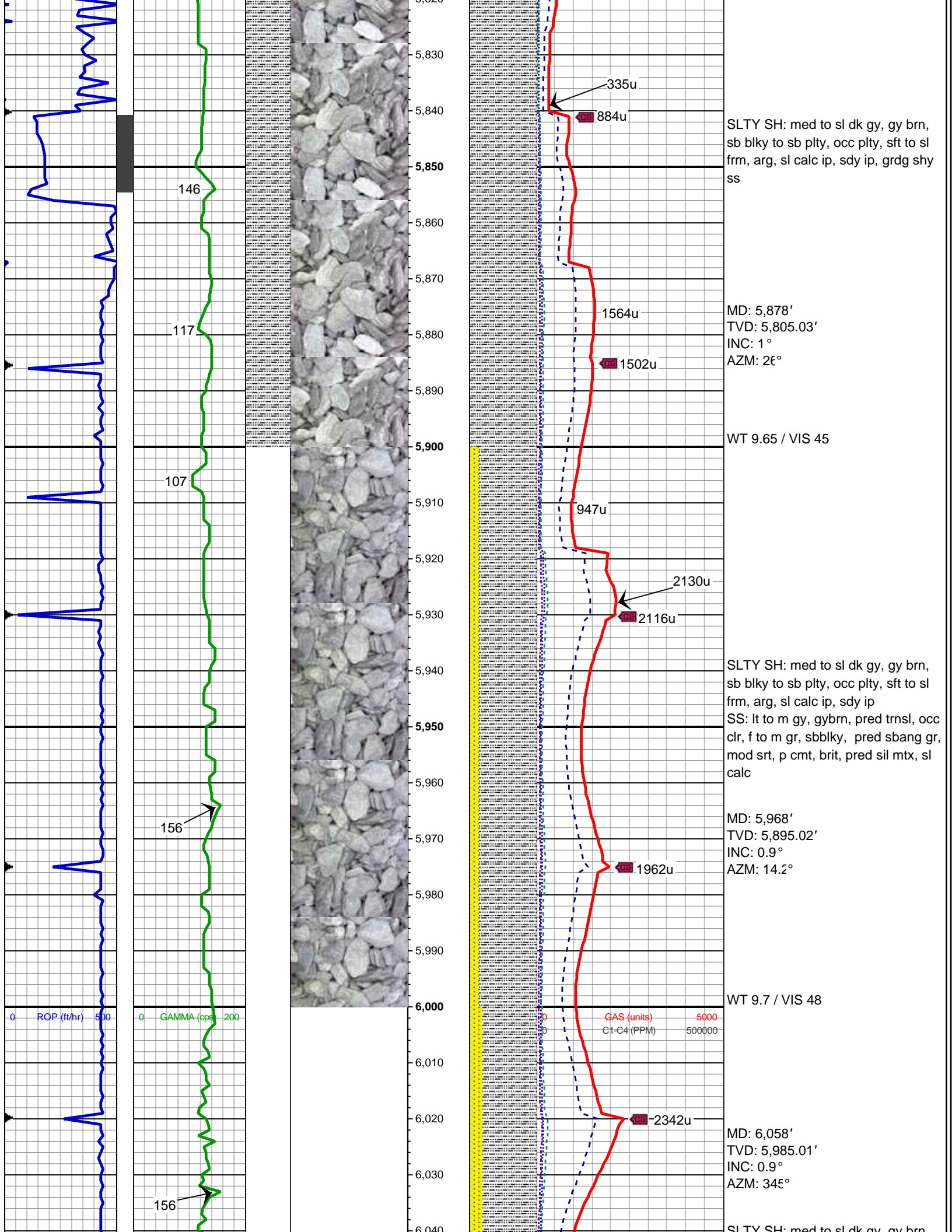


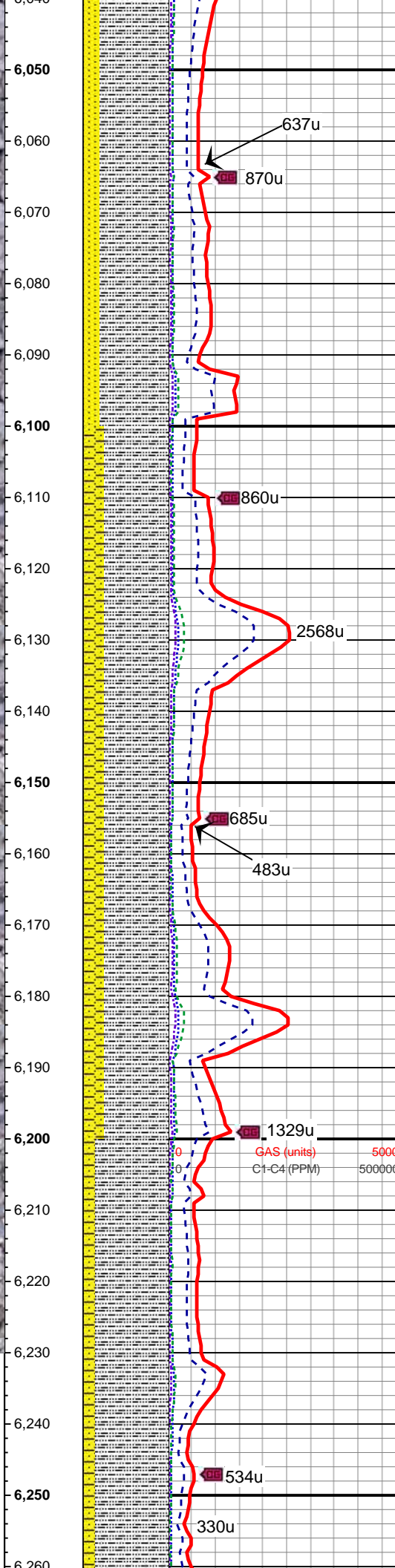
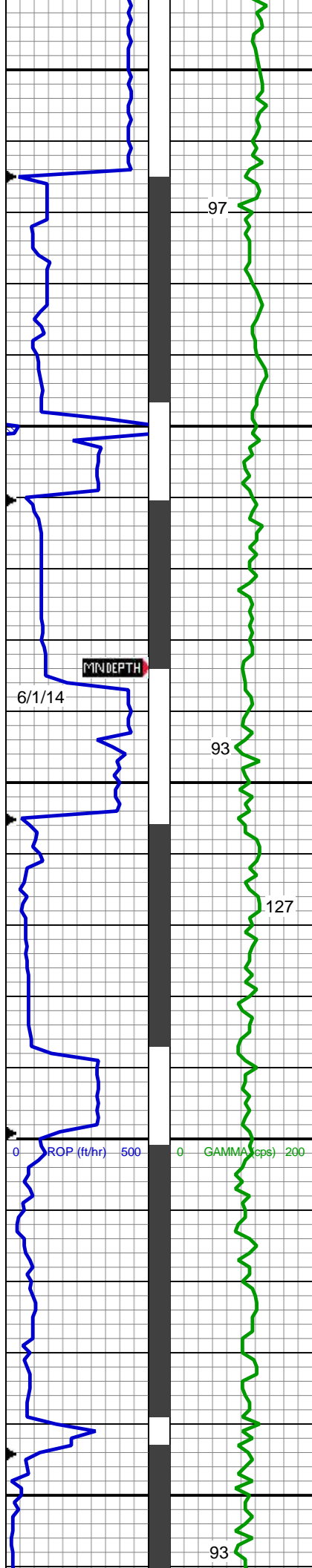












SLTY SH: med to sl dk gy, gy brn, sb blkly to sb plty, occ plty, sft to sl frm, arg, sl calc ip, sdy ip

SS: lt to m gy, gybrn, pred trns, occ cl, f to m gr, sbblkly, pred sbang gr, mod srt, p cmt, brit, pred sil mtx, sl calc

MD: 6,102'
TVD: 6,029'
INC: 2.2°
AZM: 76.5°

MD: 6,147'
TVD: 6,073.88'
INC: 5.6°
AZM: 83.5°

SLTY SH: med to sl dk gy, gy brn, sb blkly to sb plty, occ plty, sft to sl frm, arg, sl calc ip, sdy ip, tr pyr clus, grd to shy ss

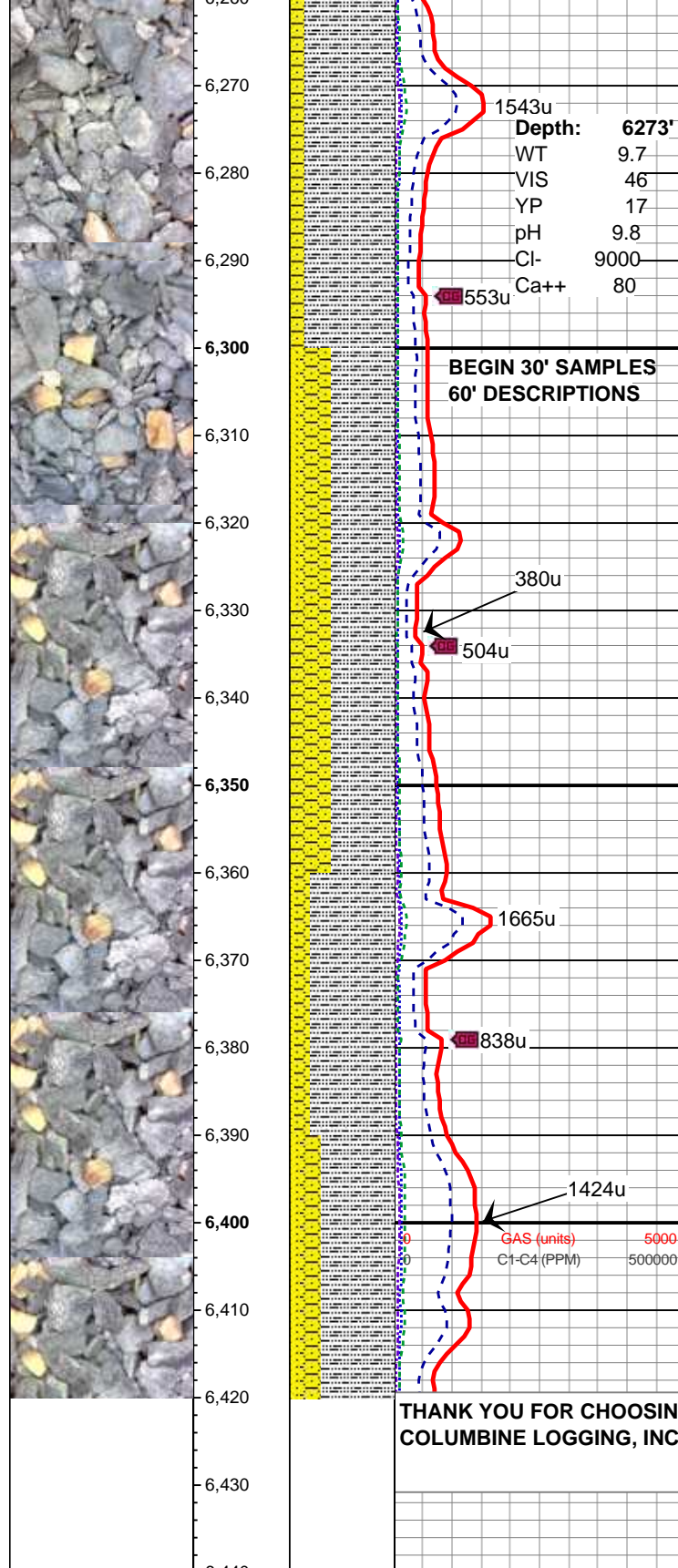
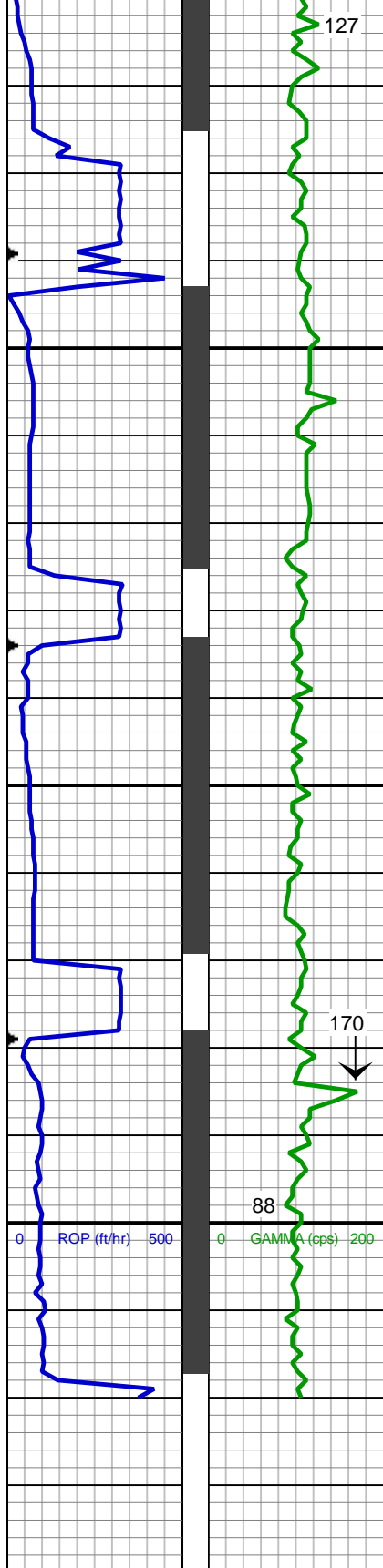
SS: lt to m gy, gybrn, pred trns, occ cl, f to m gr, sbblkly, pred sbang gr, mod srt, p cmt, brit, pred sil mtx, sl calc

MD: 6,192'
TVD: 6,118.57'
INC: 8°
AZM: 81°

WT 9.8 / VIS 50

MD: 6,237'
TVD: 6,163.02'
INC: 9.8°
AZM: 85.5°

SLTY SH: med to sl dk gy, gy brn, sb blkly to sb plty, occ plty, sft to sl frm, arg, sl calc ip, sdy ip, tr pyr



clus, grdgy to shy ss
SS: lt to m gy, gybrn, pred trns, occ
clr, f to m gr, sbbkly, pred sbang gr,
mod srt, p cmt, brit, pred sil mtx, sl
calc

MD: 6,282'
TVD: 6,207.24'
INC: 11.6°
AZM: 88.1°

MD: 6,327'
TVD: 6,251.07'
INC: 14.5°
AZM: 88.5°

SLTY SH: med to sldk gy, gybrn,
sbbkly to sbply, occ pty, sft to sl
frm, arg, sl calc ip, sdy ip, grdgy to
shy ss
SS: lt to m gy, s&p ip, gybrn, pred
trns, occ clr, f to m gr, sbbkly, pred
sbang gr, mod srt, p cmt, brit, pred
sil mtx, sl calc

MD: 6,372'
TVD: 6,294.28'
INC: 17.9°
AZM: 88°

SLTY SH: med to sldk gy, gybrn,
sbbkly to sbply, occ pty, sft to sl
frm, arg, sl calc ip, sdy ip, tr bent,
grdgy to shy ss
SS: lt to m gy, gybrn, pred trns, occ
clr, f to m gr, sbbkly, pred sbang gr,
mod srt, p cmt, brit, pred sil mtx, sl
calc

MD: 6,417'
TVD: 6,336.76'
INC: 20.6°
AZM: 86.5°

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

THANK YOU FOR CHOOSING
COLUMBINE LOGGING, INC.