

COLUMBINE LOGGING

Scale: 5" / 100'
Measured Depth Log

Well Name Resolute E25-63HC

Location SESE SEC26 T6N R65W

State COLORADO

County WELD

Country USA

Rig Number PRECISION 828

API Number 05-123-38165

AFE # 139763

Region DENVER JULESBURG BASIN

Field WATTENBERG

Spud Date 5/18/2014

Drilling Completed 5/25/2014

Surface Coordinates 373' FSL, 280' FEL

LAT/LONG 40.45071/-104.62175

Ground Elevation 4676'

K.B. Elevation 4692'

Logged Interval 667'

To 6620'

Total Depth 11166'

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.

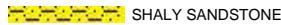
Address 1625 Broadway
Denver, CO 80202

Other

Wellsite Geologists: ELIZABETH STOREY, GARY MYERS, GABRIEL RUBIO

Rock Types

 SANDSTONE

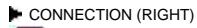
 SHALY SANDSTONE

 SHALY SILTSTONE

 SILTY SHALE

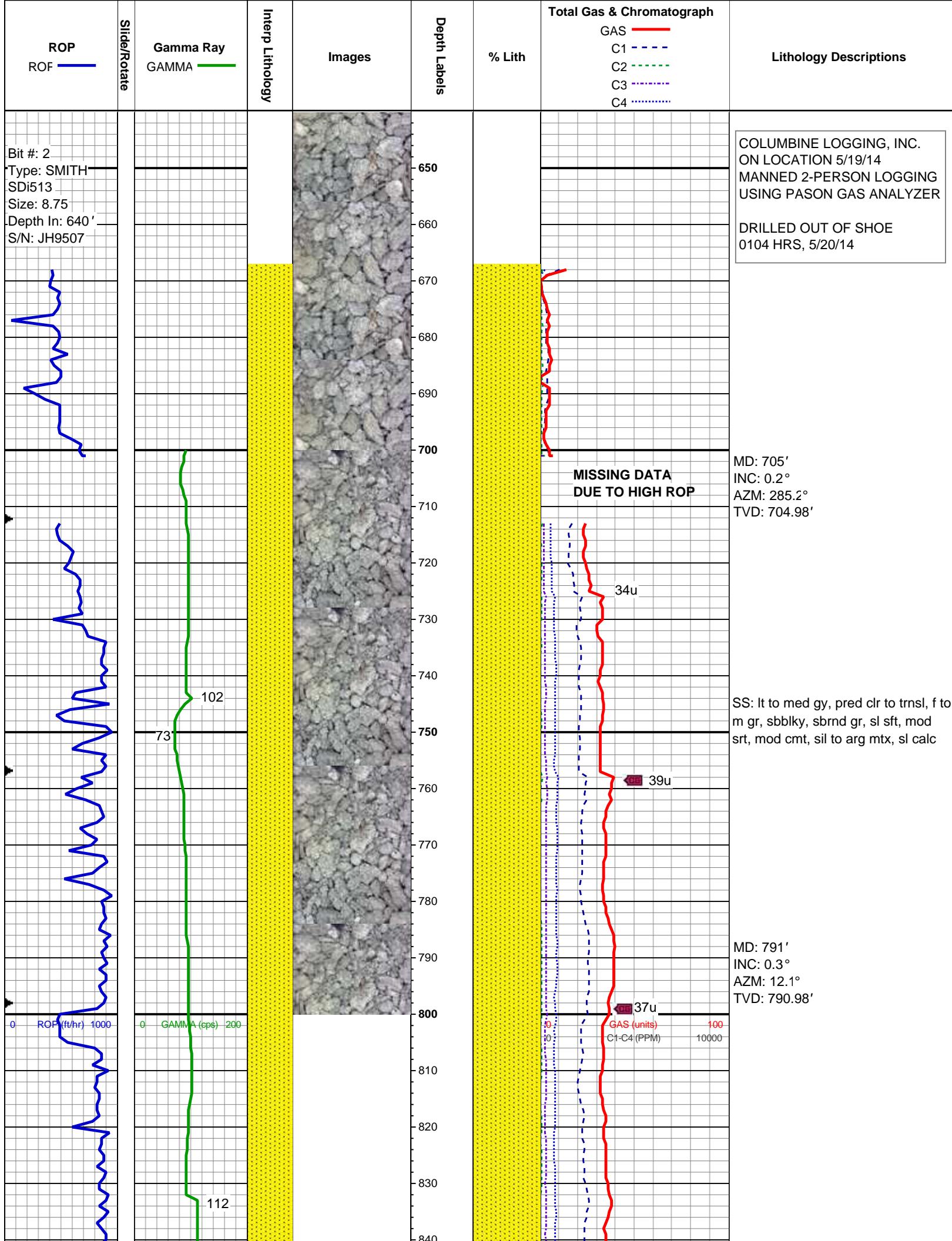
Other Symbols

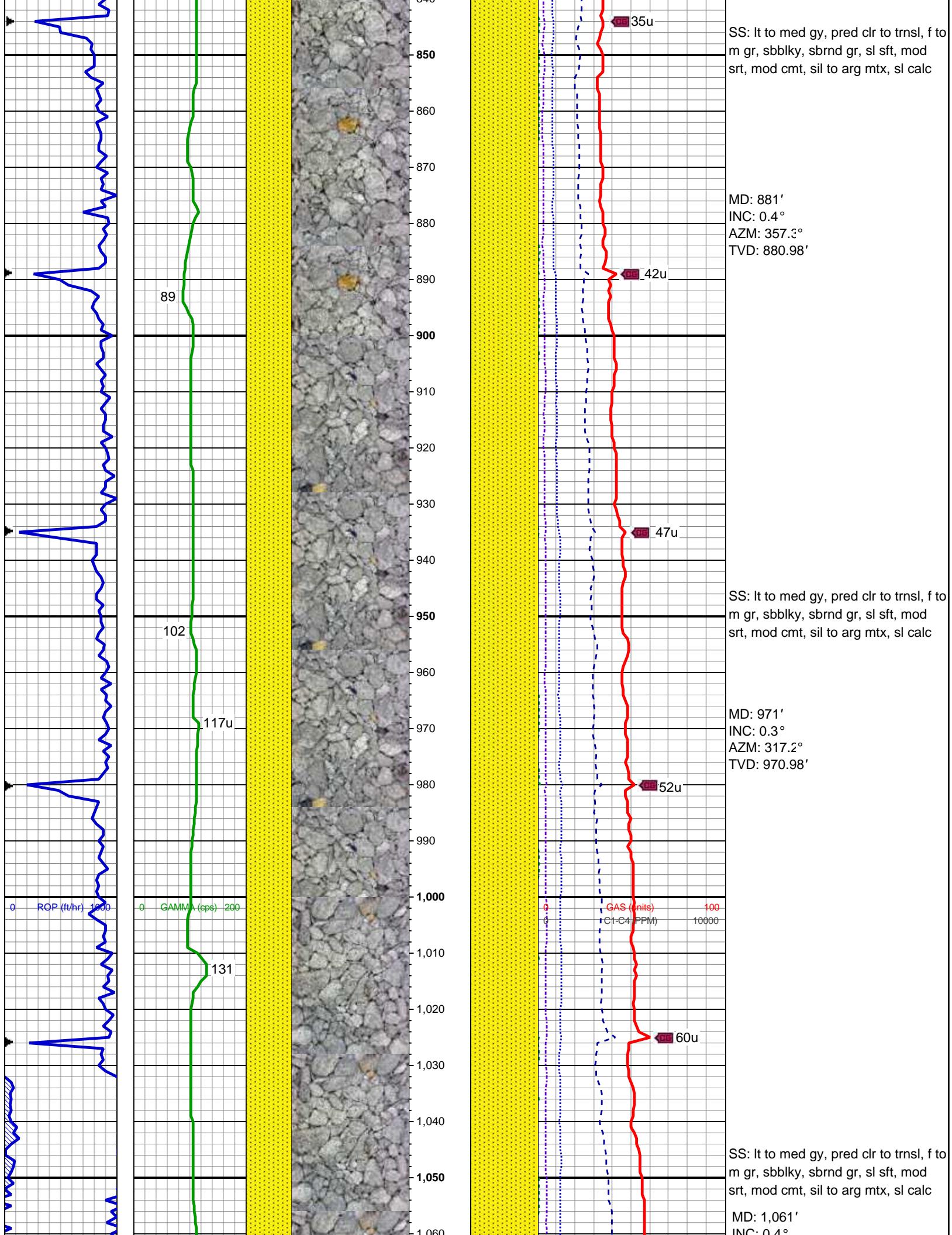
Engineering

 CONNECTION (RIGHT)

 CONNECTION GAS

 MN DEPTH  MN DEPTH (RIGHT)





INC: 0.4
AZM: 312.1°
TVD: 1,060.98'

MISSING DATA
DUE TO HIGH
ROP

0 ROP (ft/hr) 1000

0 GAMMA (cps) 200

102

127

102

107

117

1,060
1,070
1,080
1,090
1,100
1,110
1,120
1,130
1,140
1,150
1,160
1,170
1,180
1,190
1,200
1,210
1,220
1,230
1,240
1,250
1,260
1,270
1,280

MISSING DATA
DUE TO HIGH ROP

GAS
SCALE
CHANGE

0 GAS (units) 200
0 C1-C4 (PPM) 20000

52u

56u

63u

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

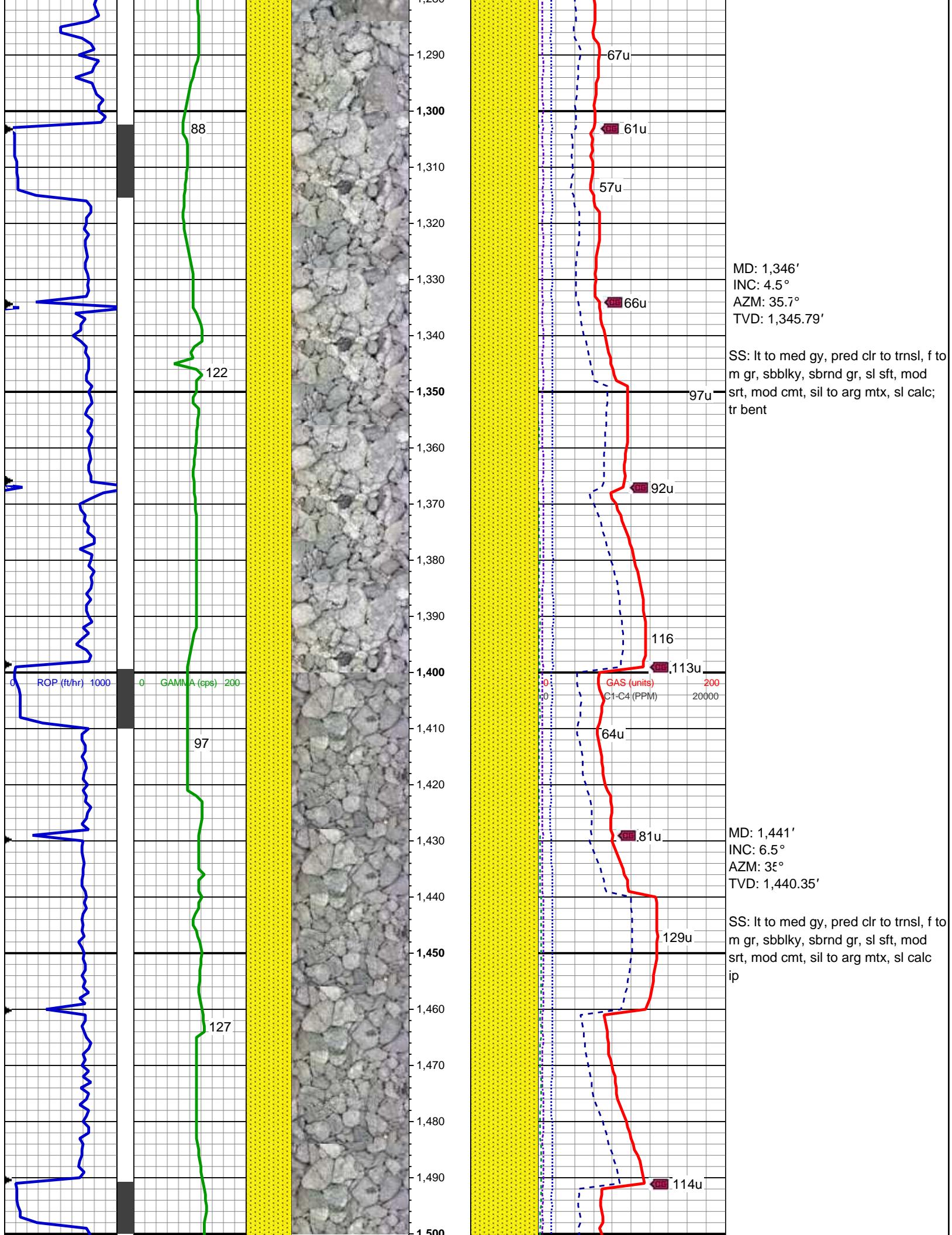
MD: 1,156'
INC: 0.1°
AZM: 284.9°
TVD: 1,155.97'

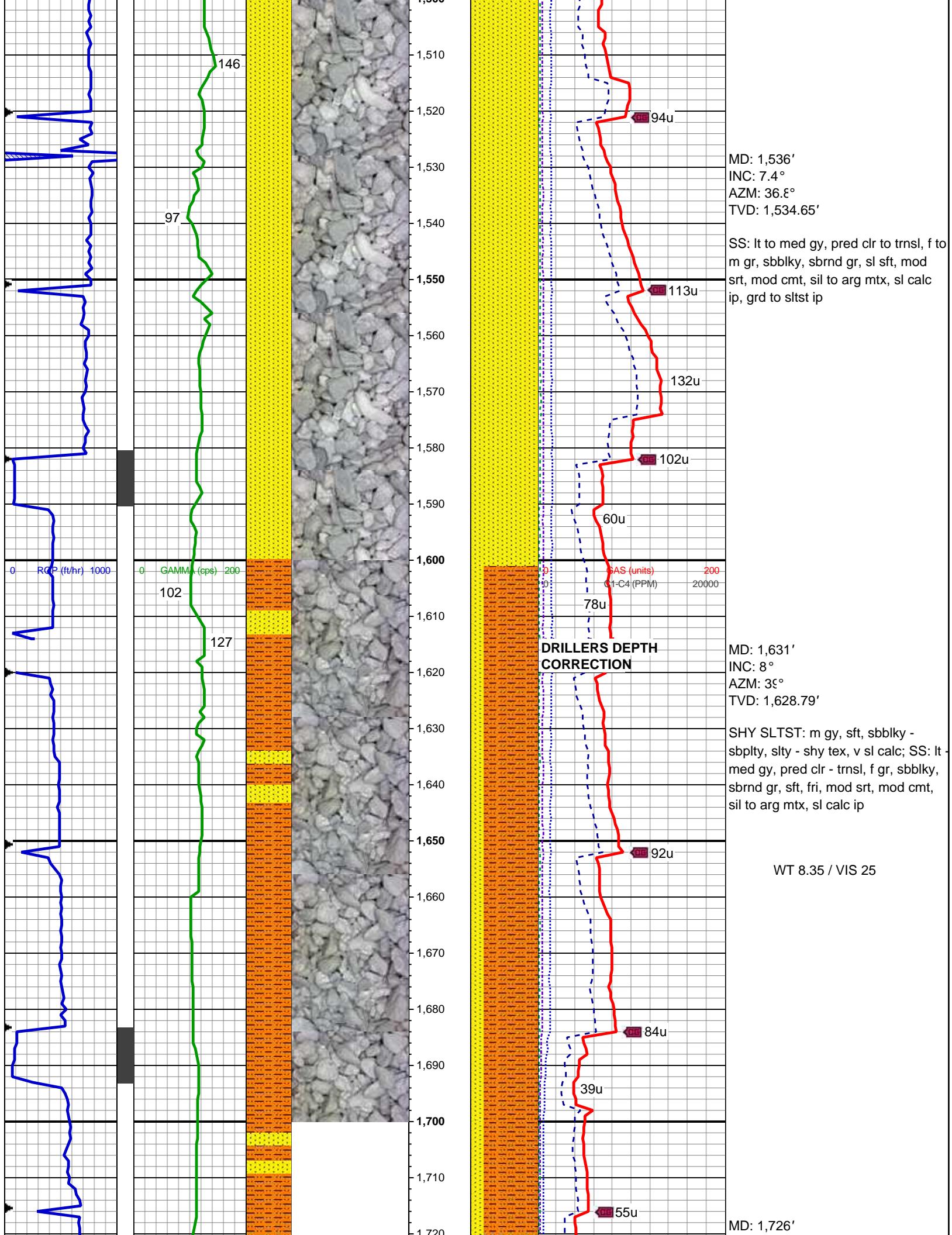
Depth: 1203'
WT 8.5
VIS 28
YP 0
pH 8.6
Cl- 900
Ca++ 80

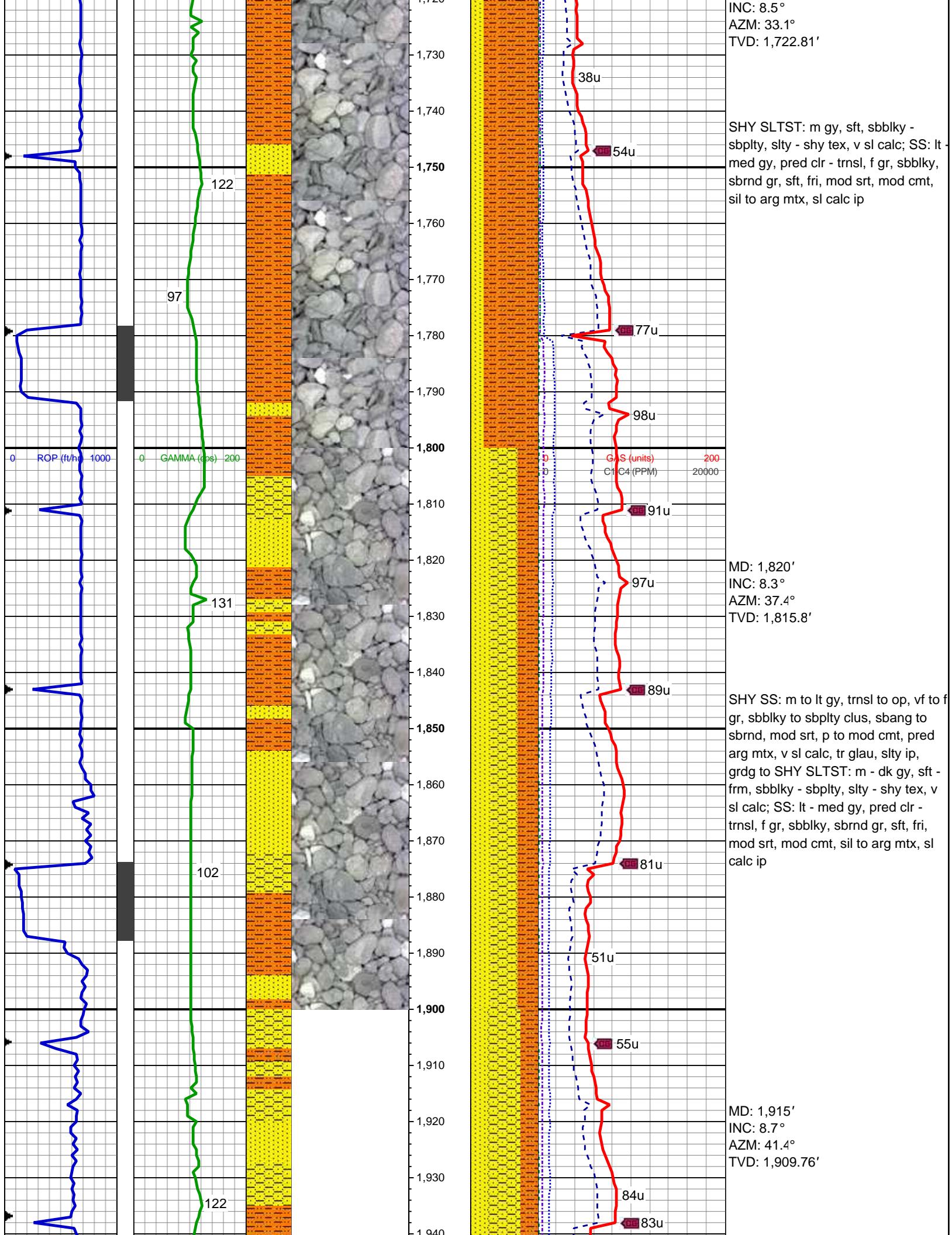
DRILLERS DEPTH CORRECTION

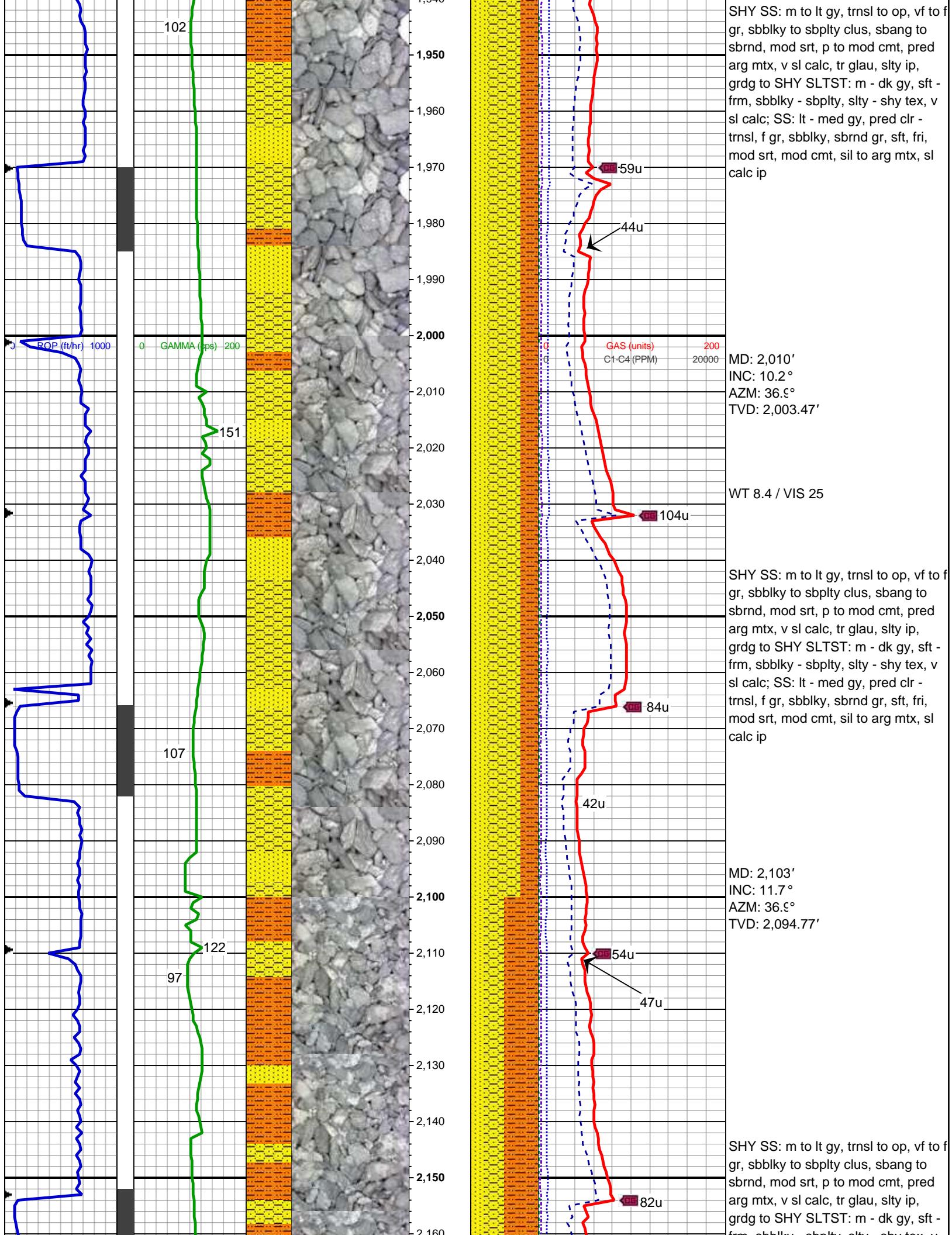
SS: lt to med gy, pred clr to trnsl, f to
m gr, sbblk, sbrnd gr, sl sft, mod
srt, mod cmt, sil to arg mtx, sl calc;
tr bent

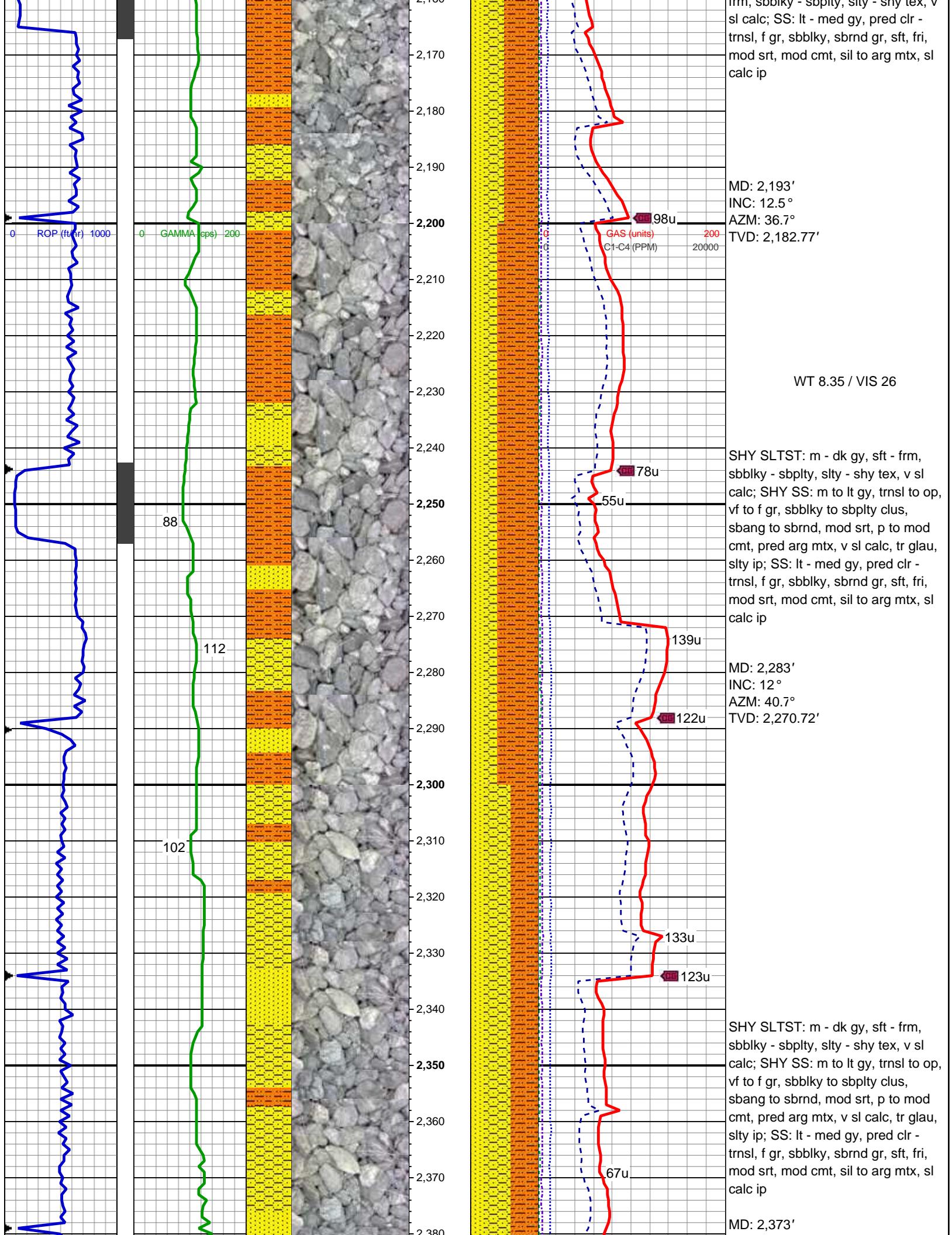
MD: 1,251'
INC: 2.1°
AZM: 38.9°
TVD: 1,250.95'



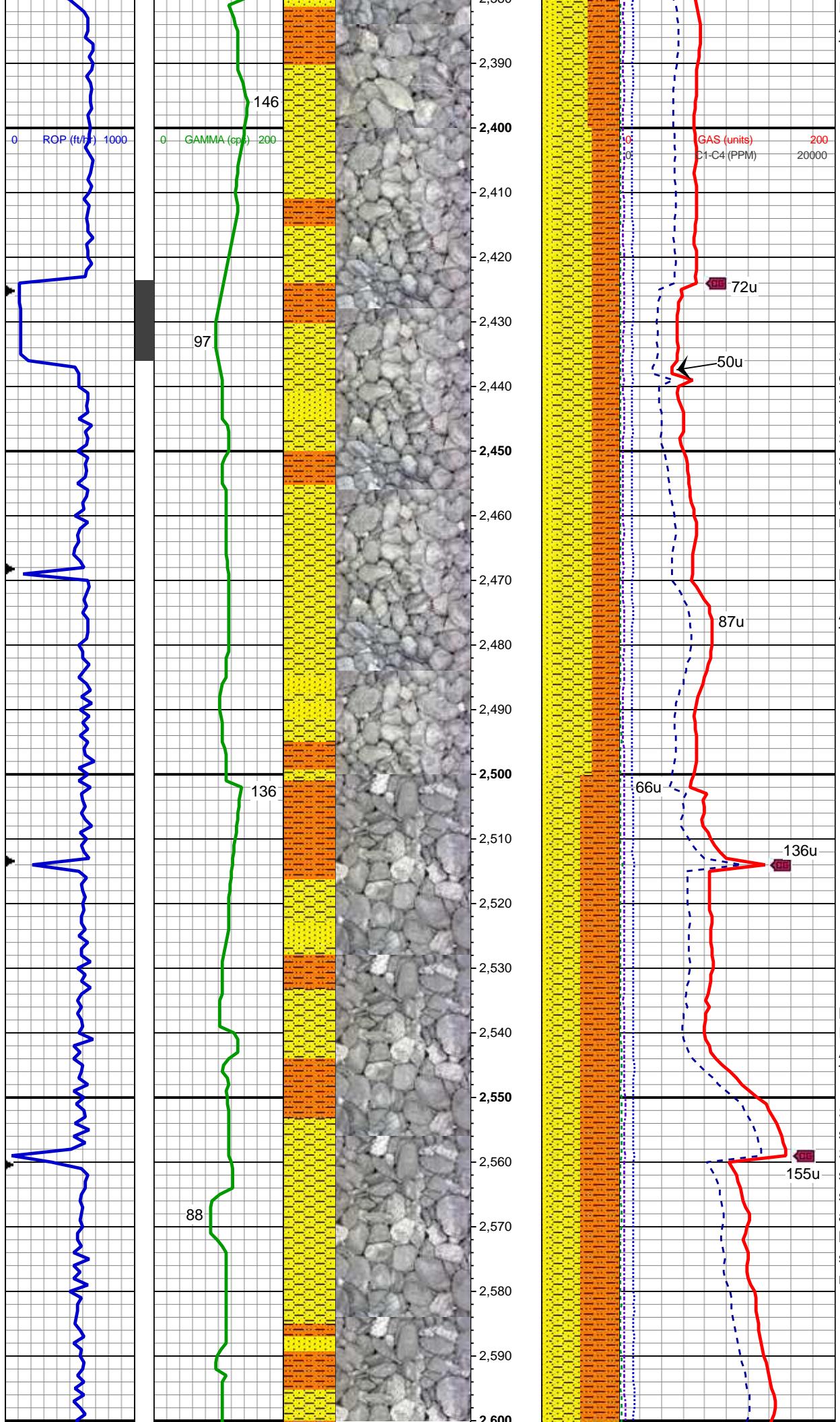


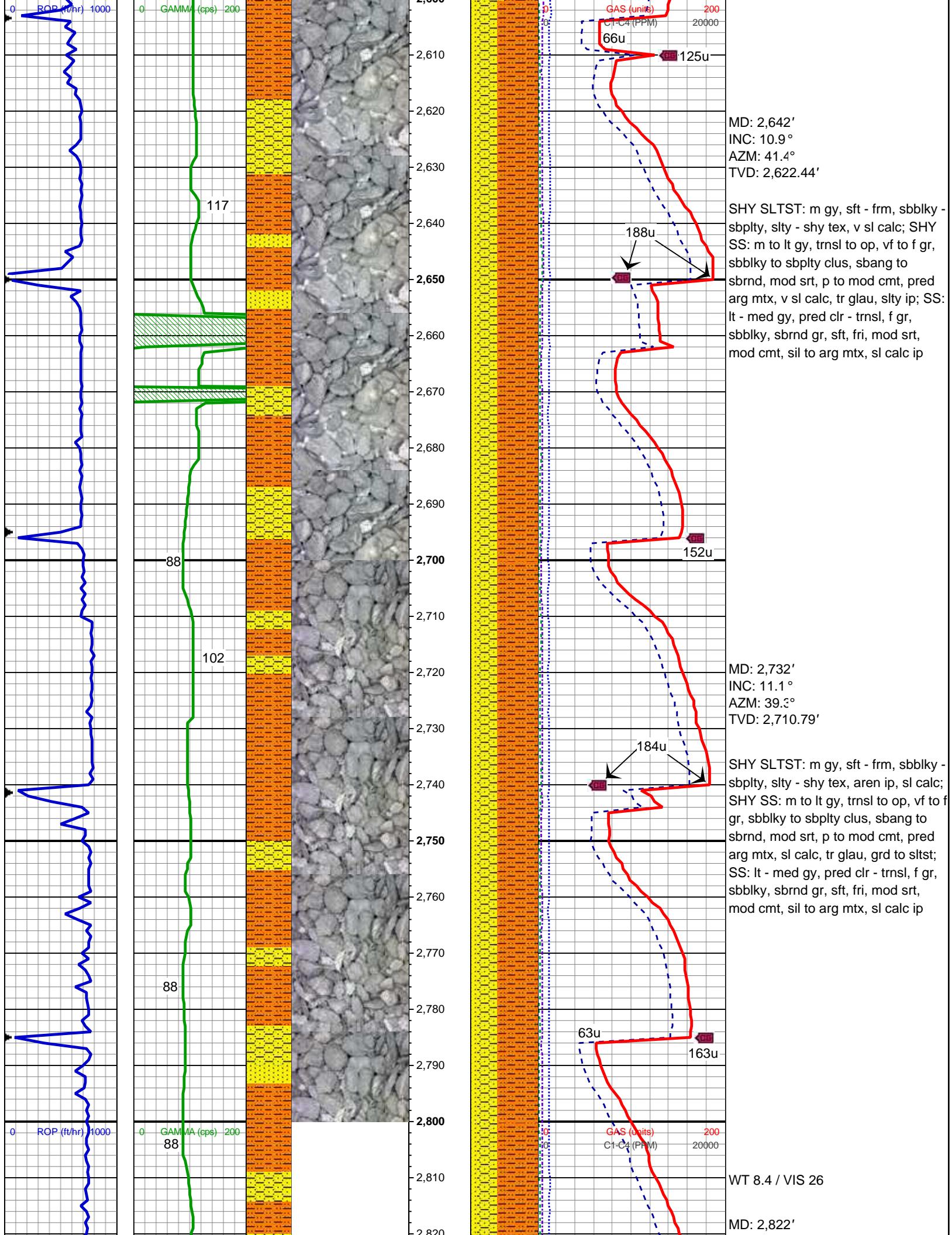


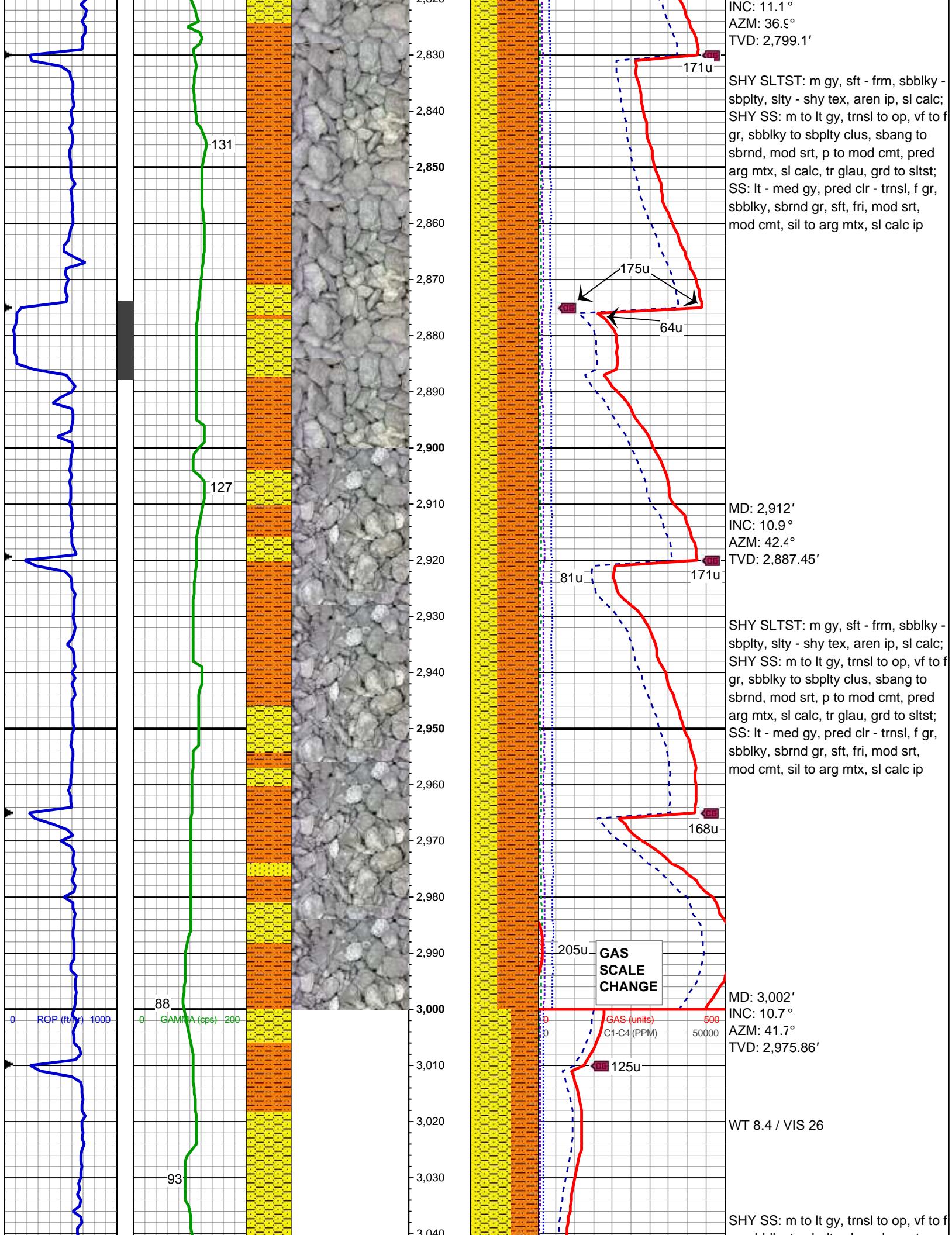


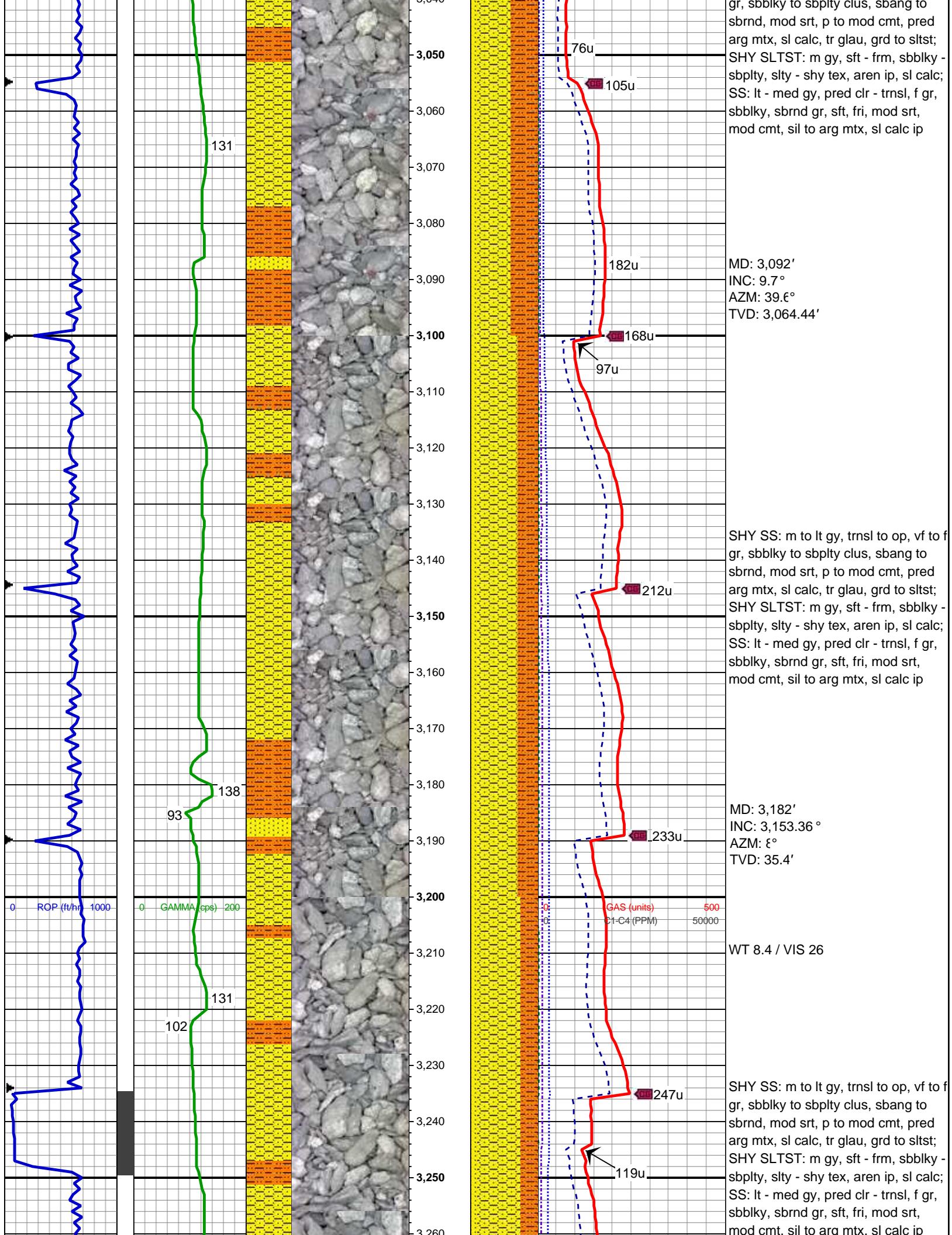


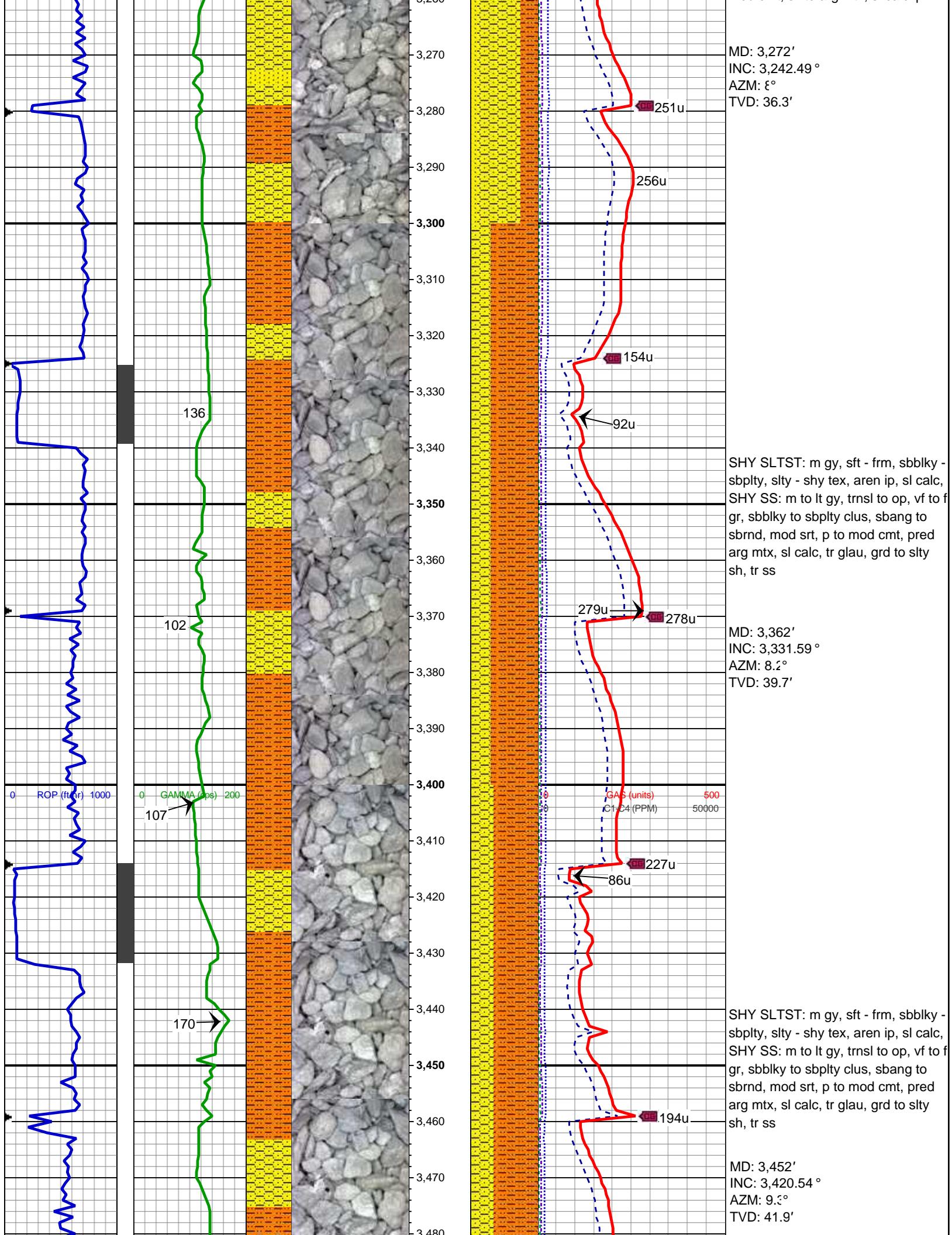
INC: 11.3°
AZM: 36.6°
TVD: 2,358.87'

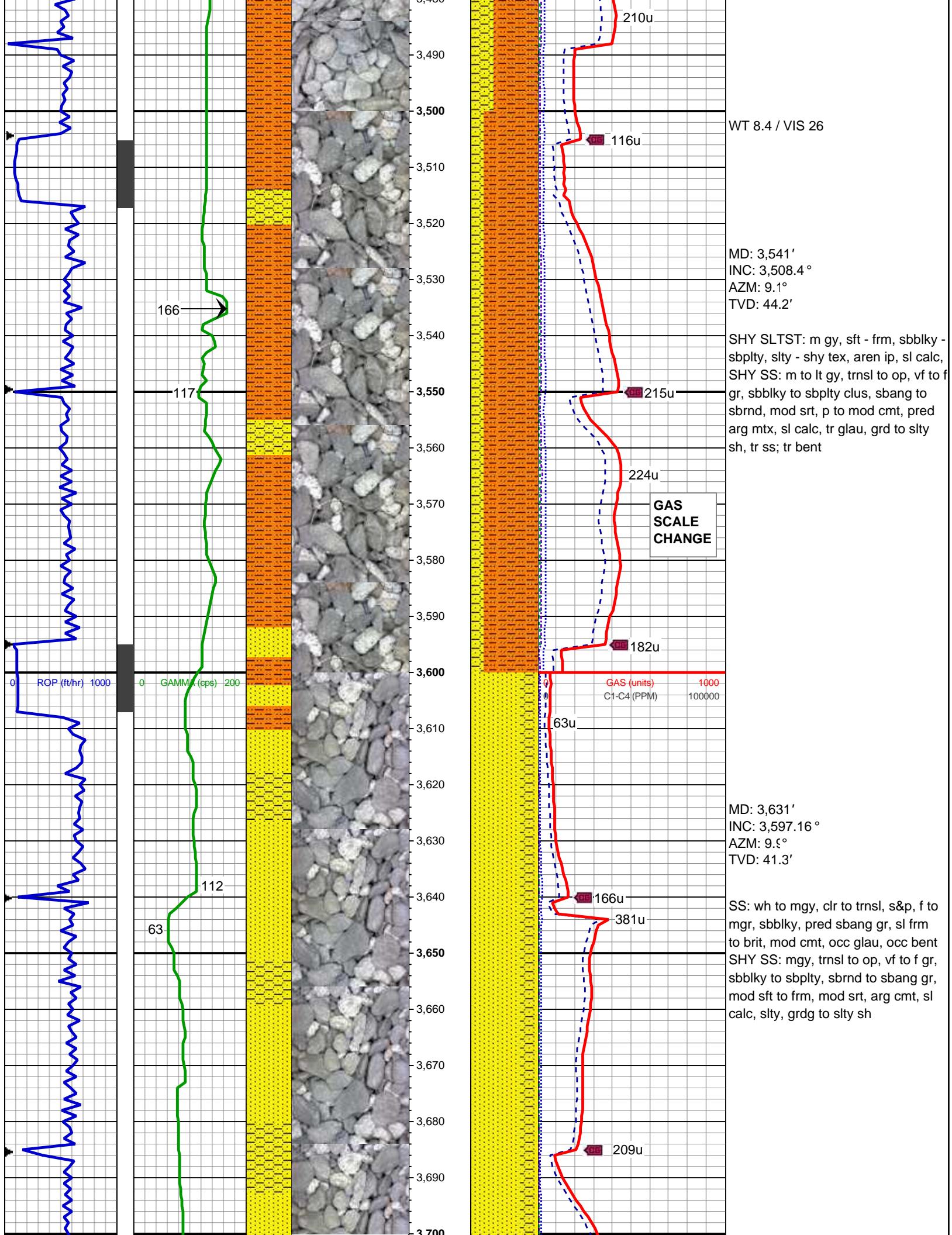


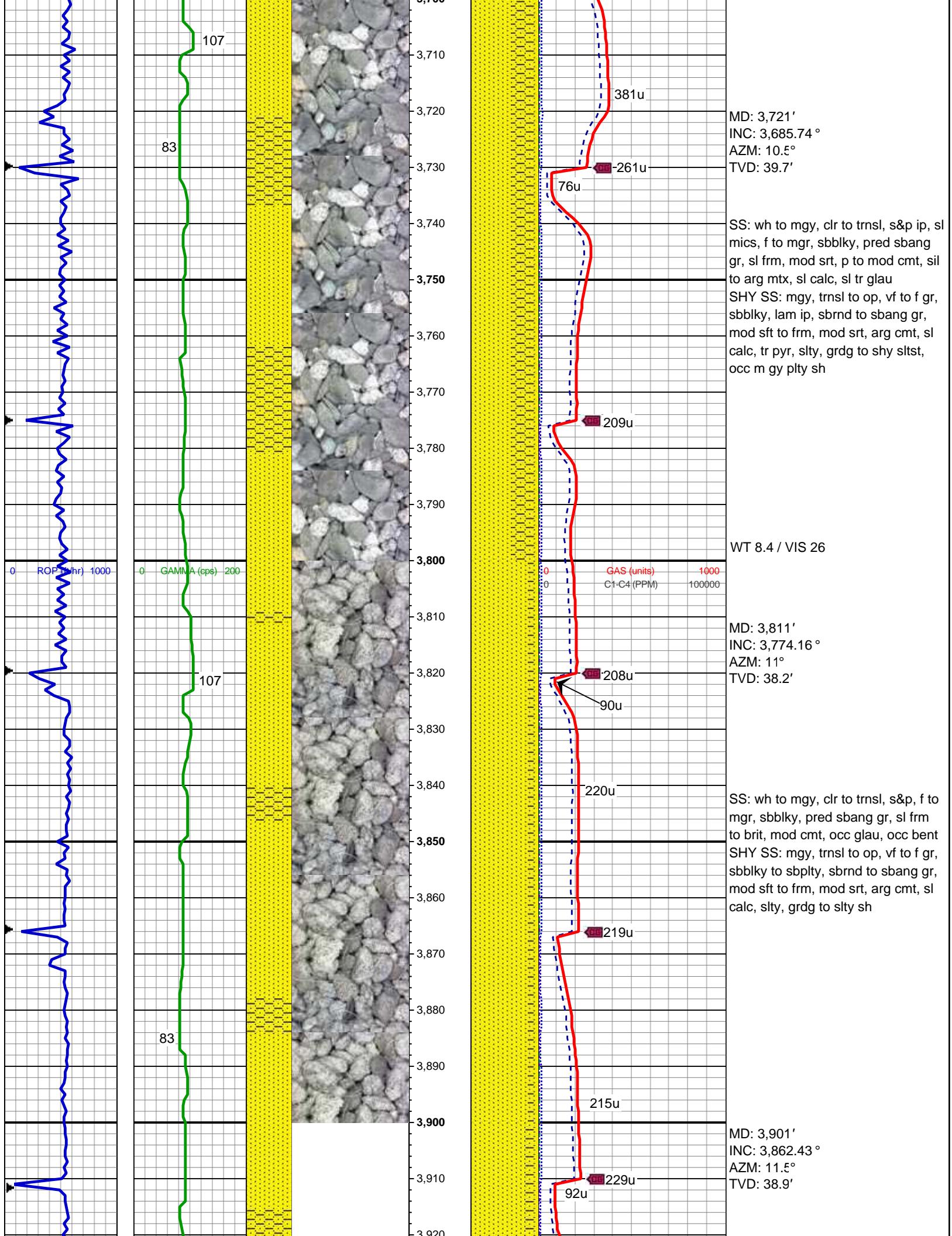


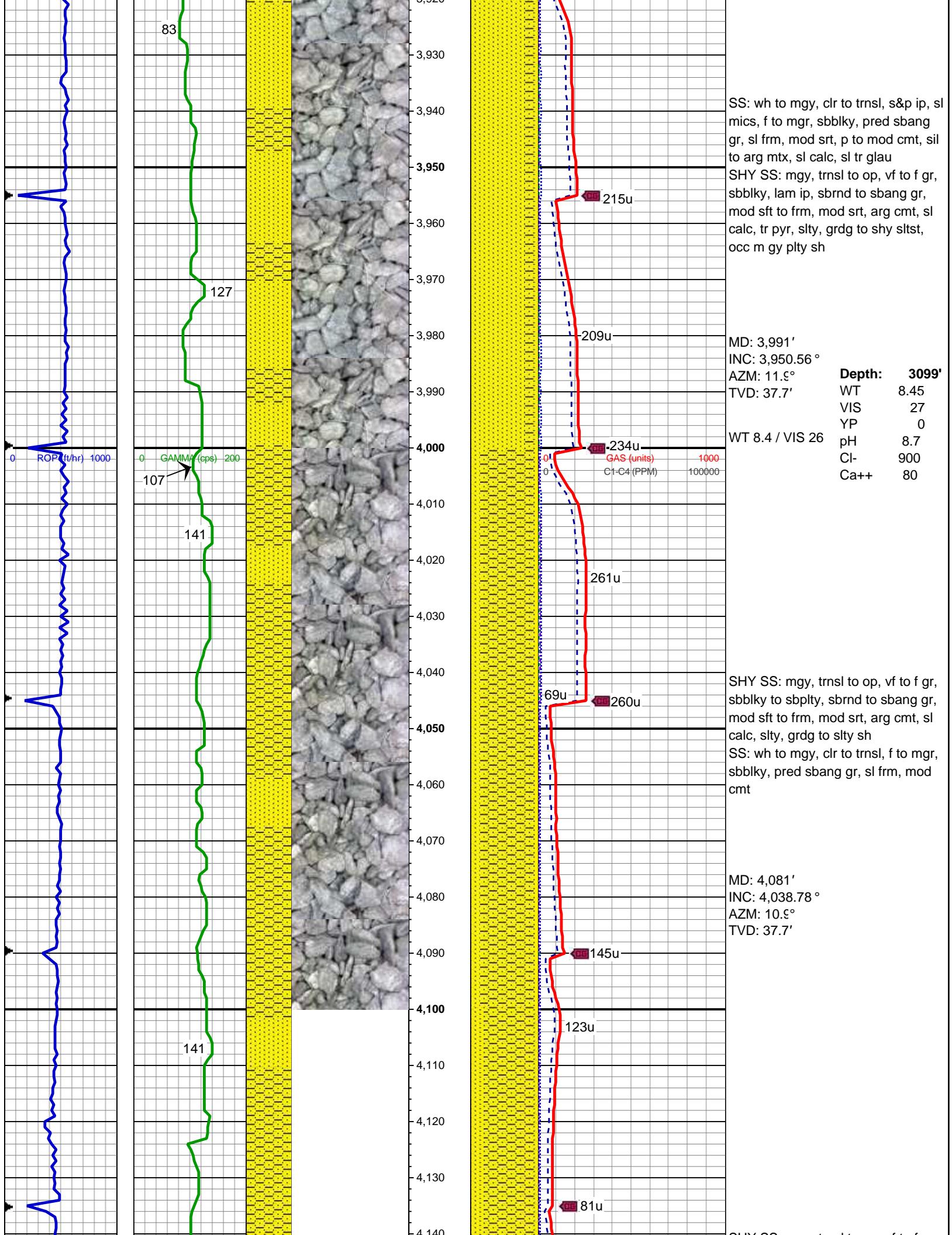


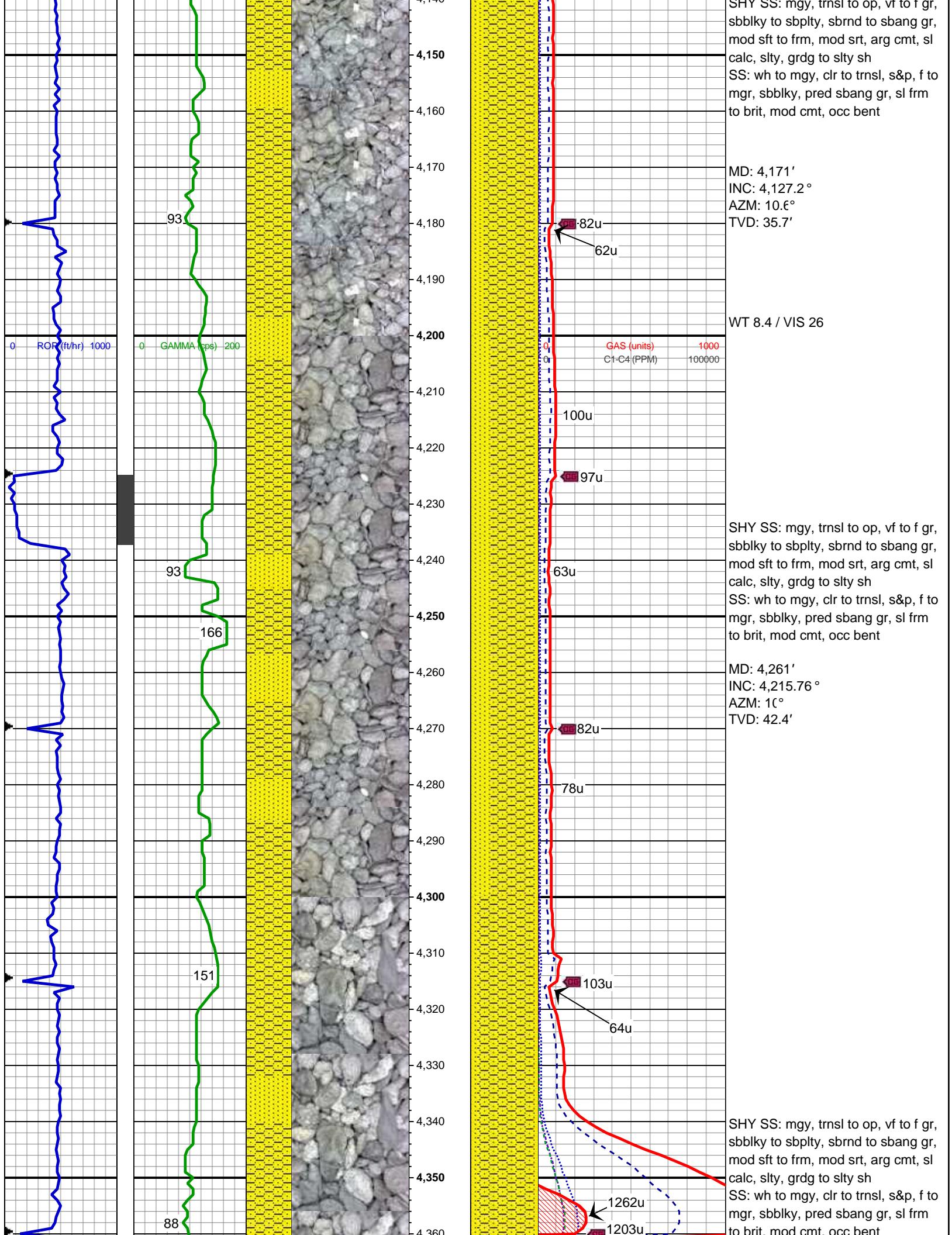


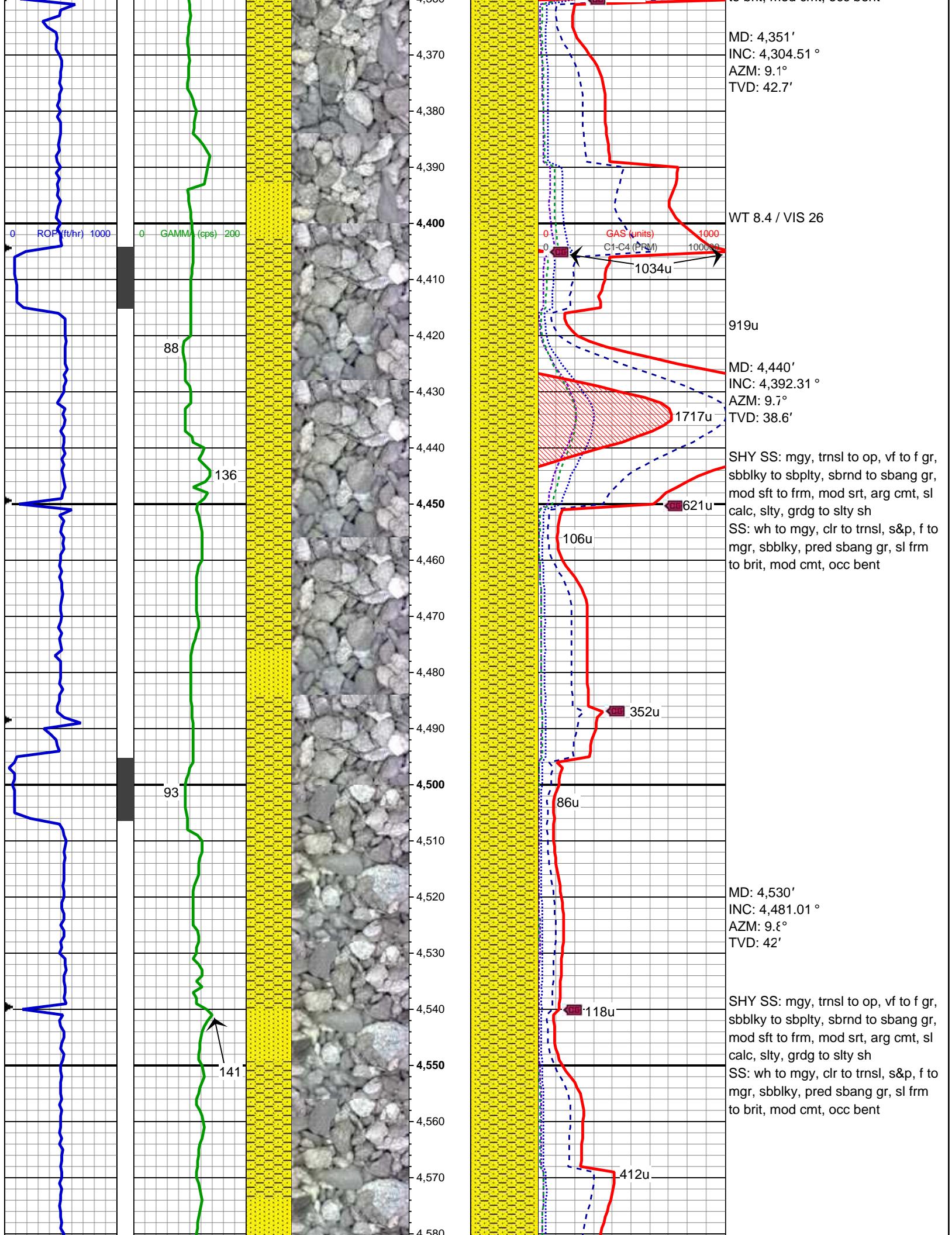


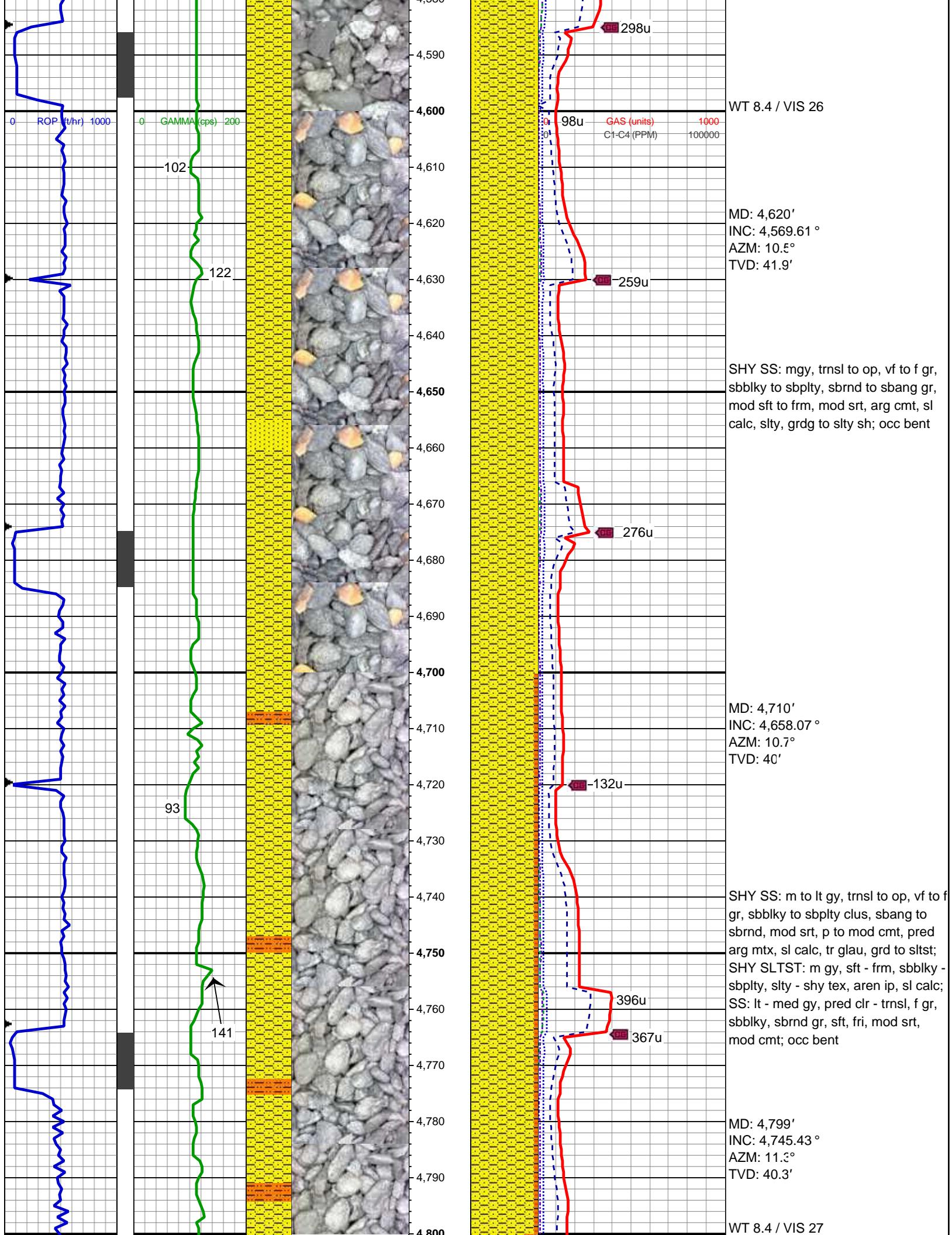


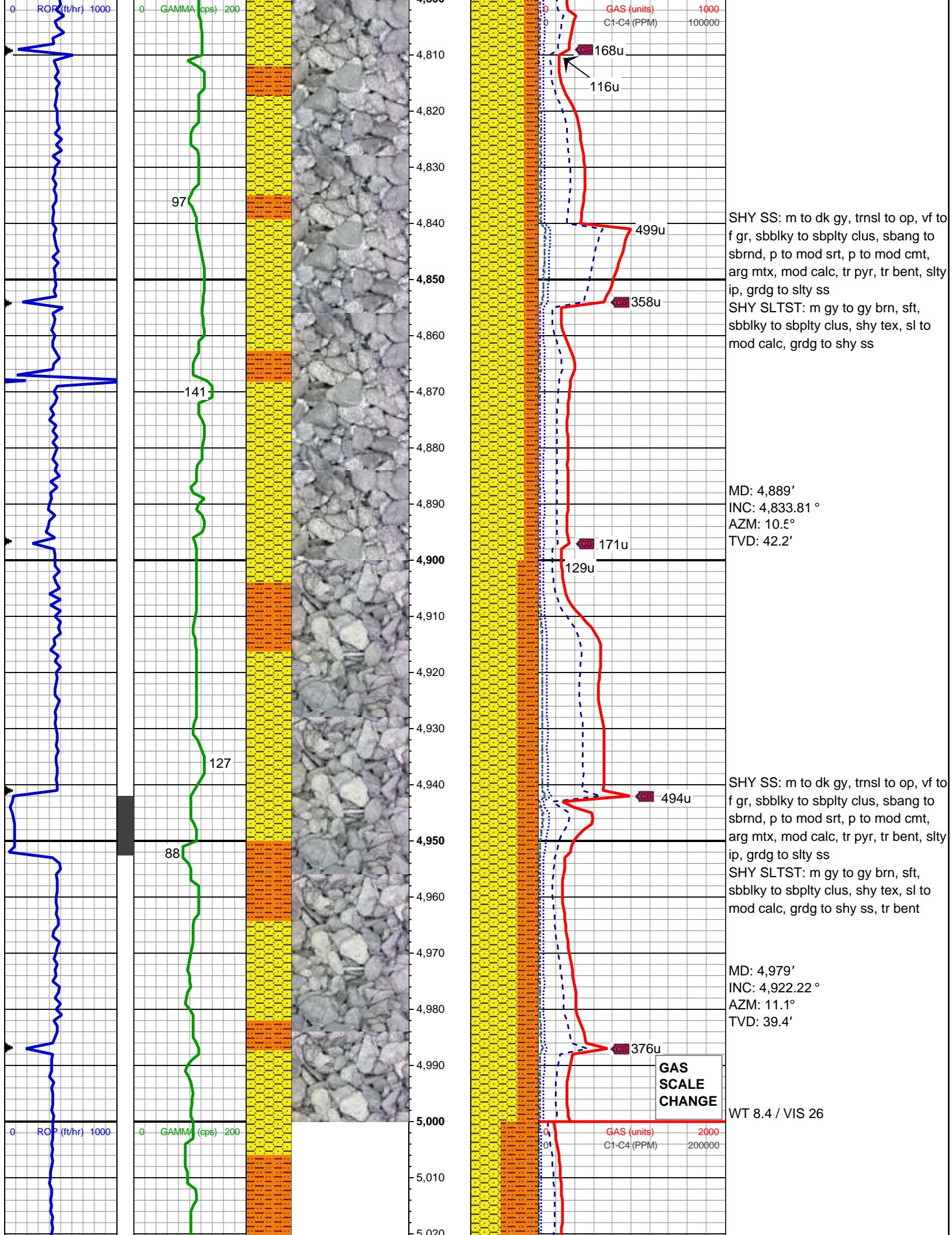


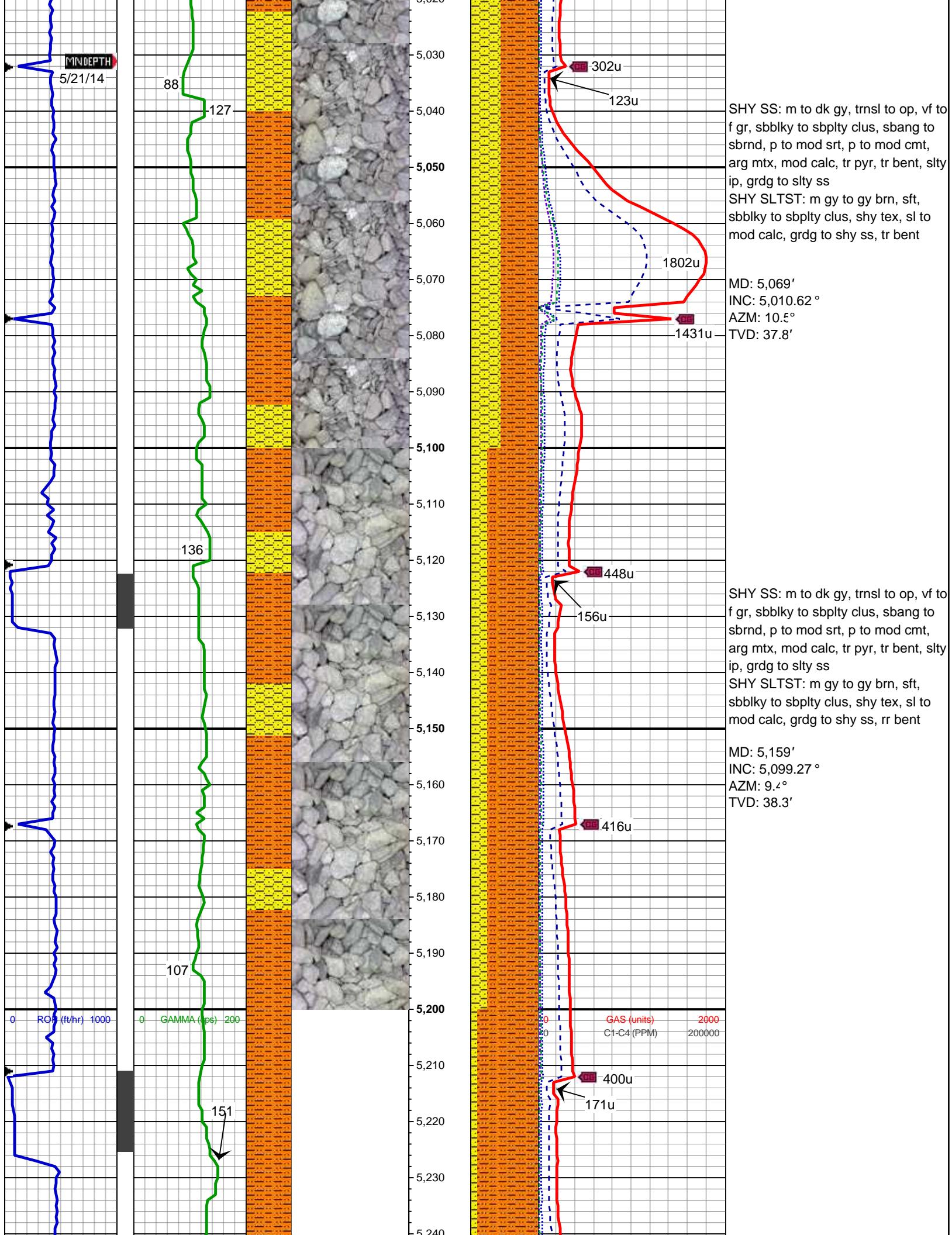


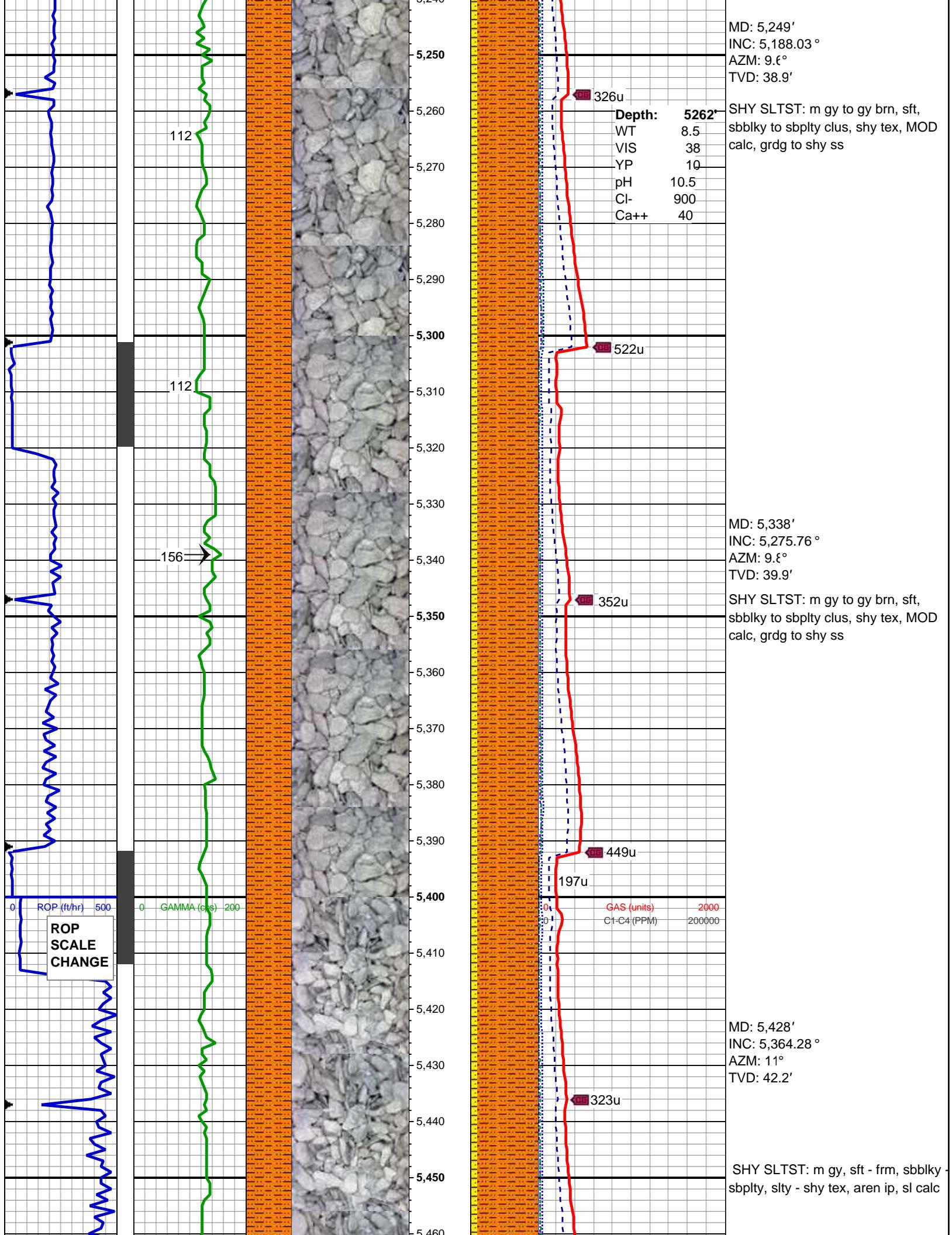


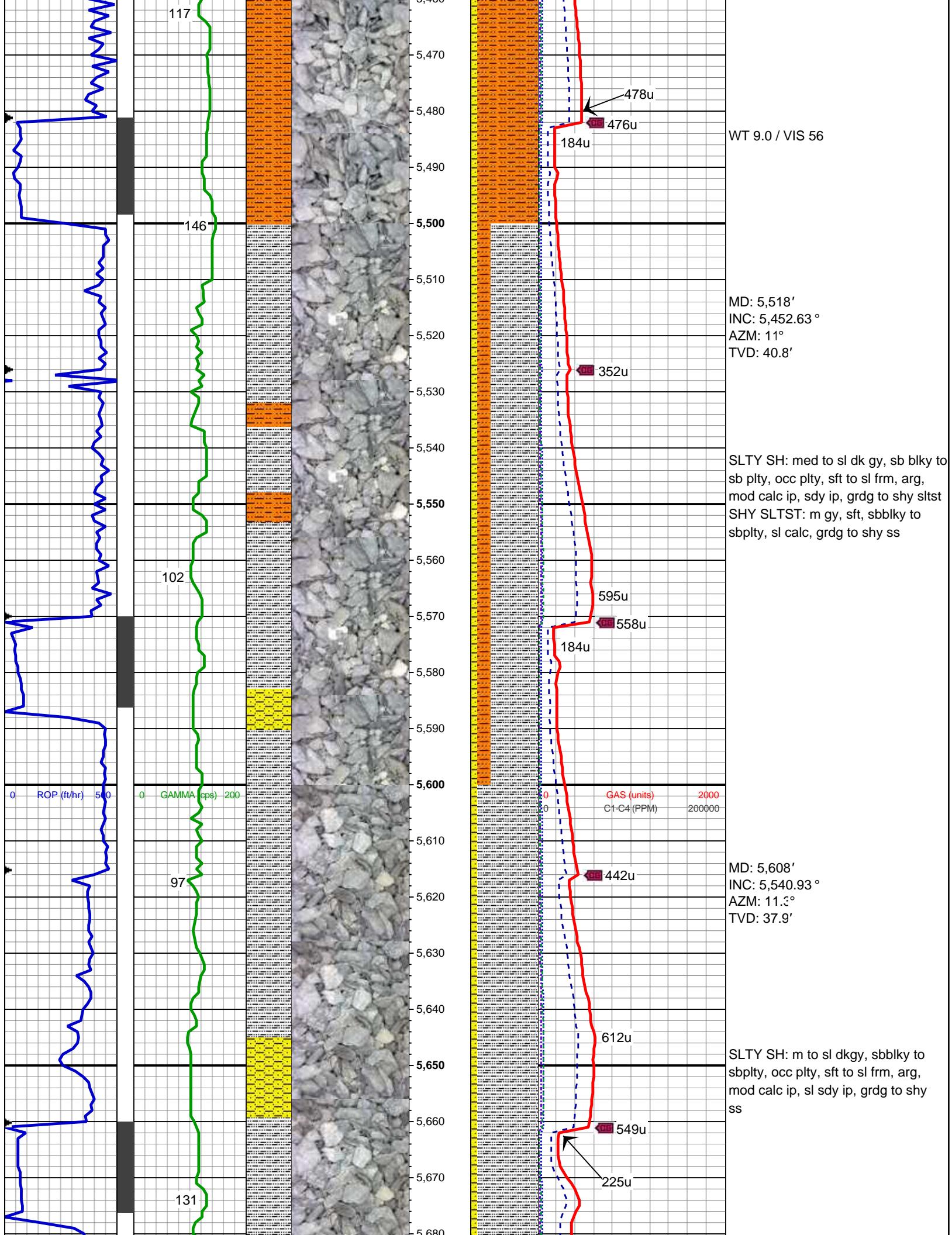


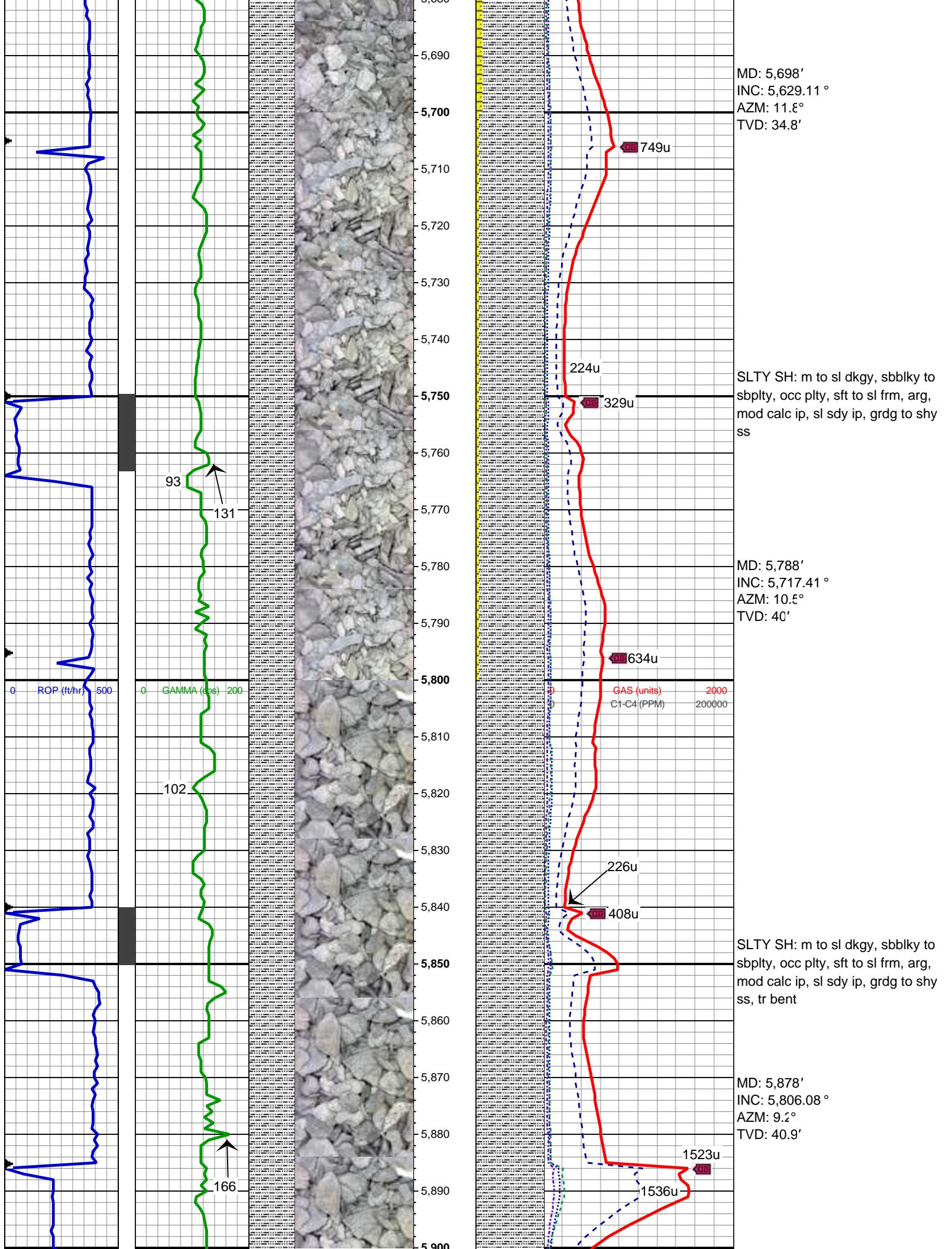


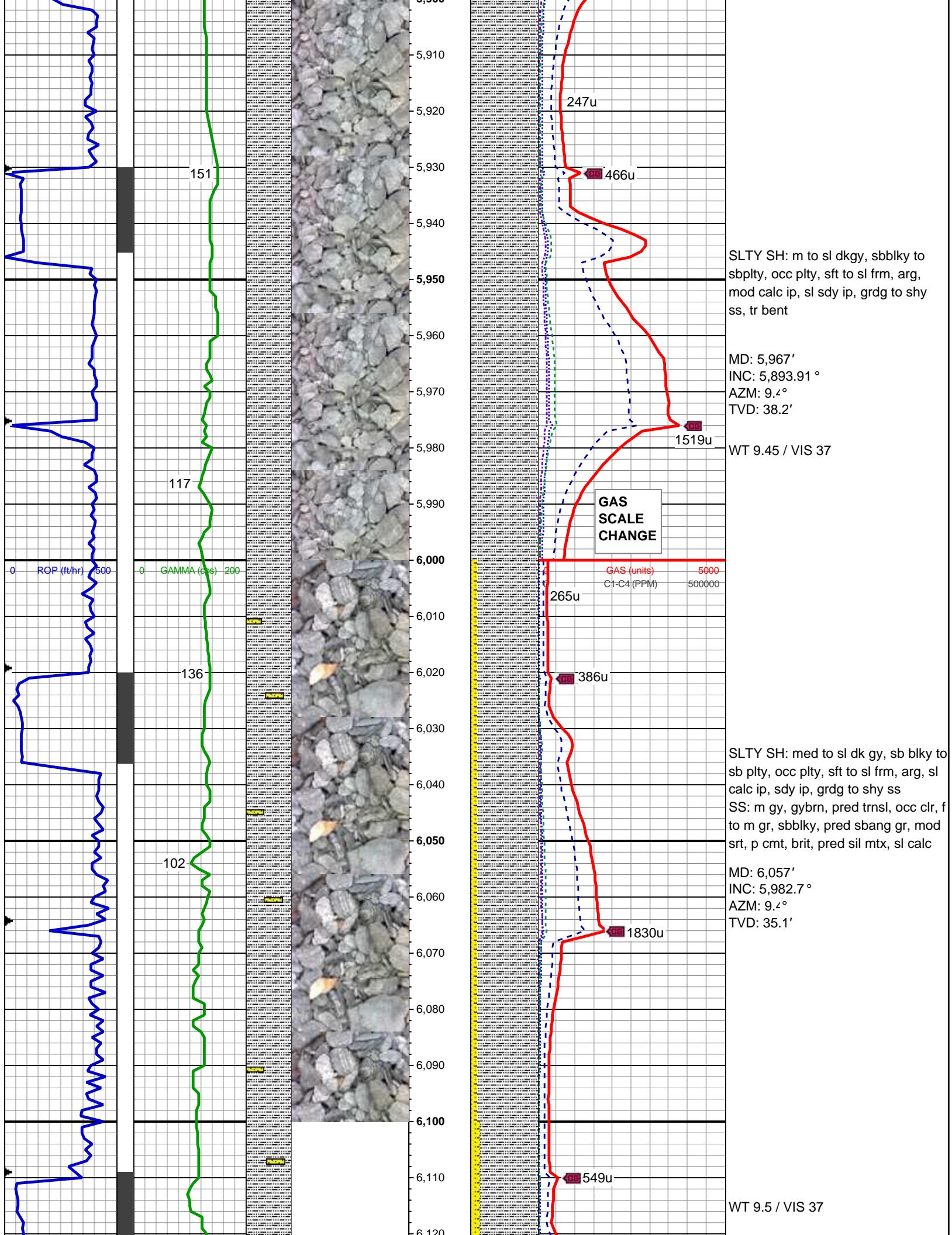


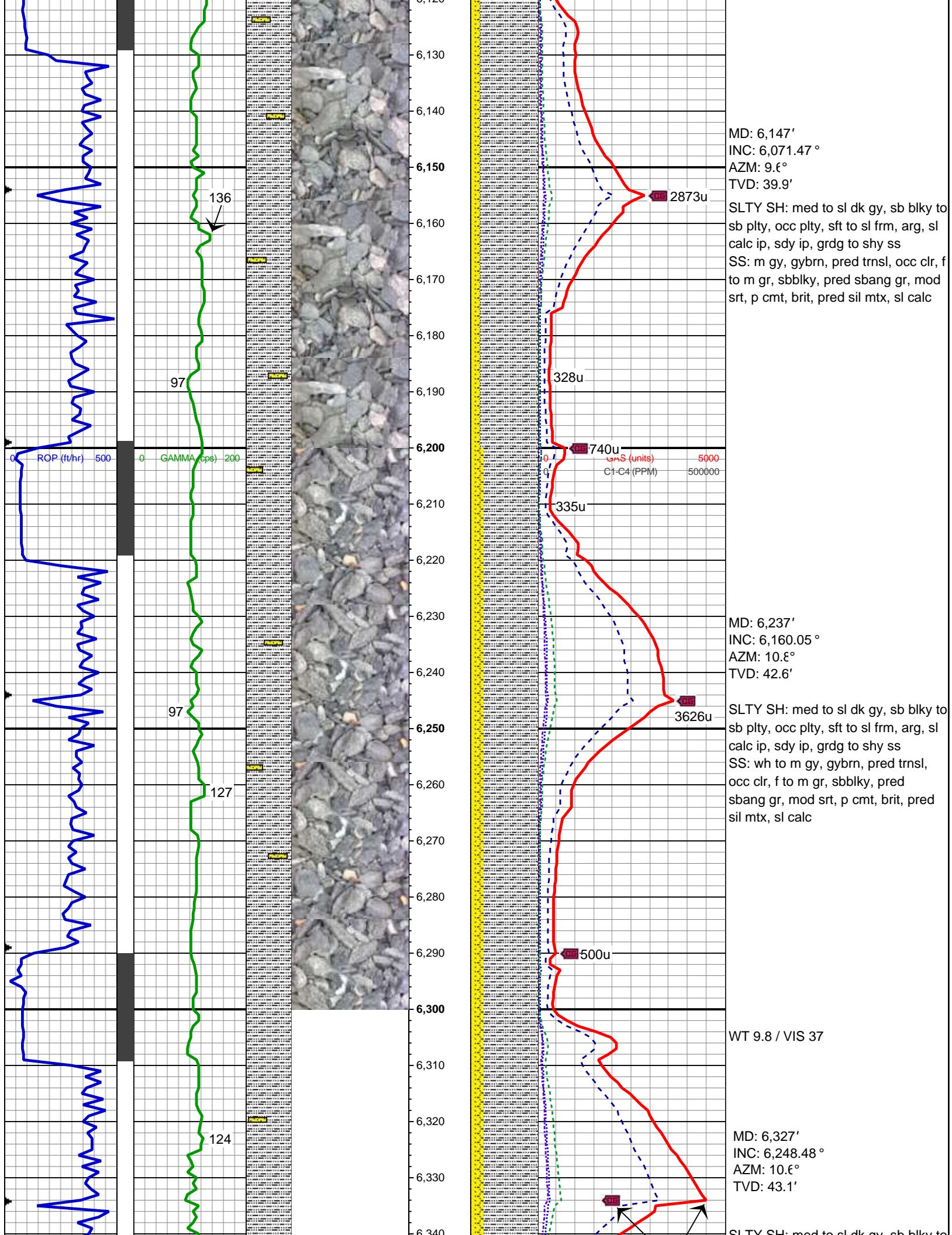


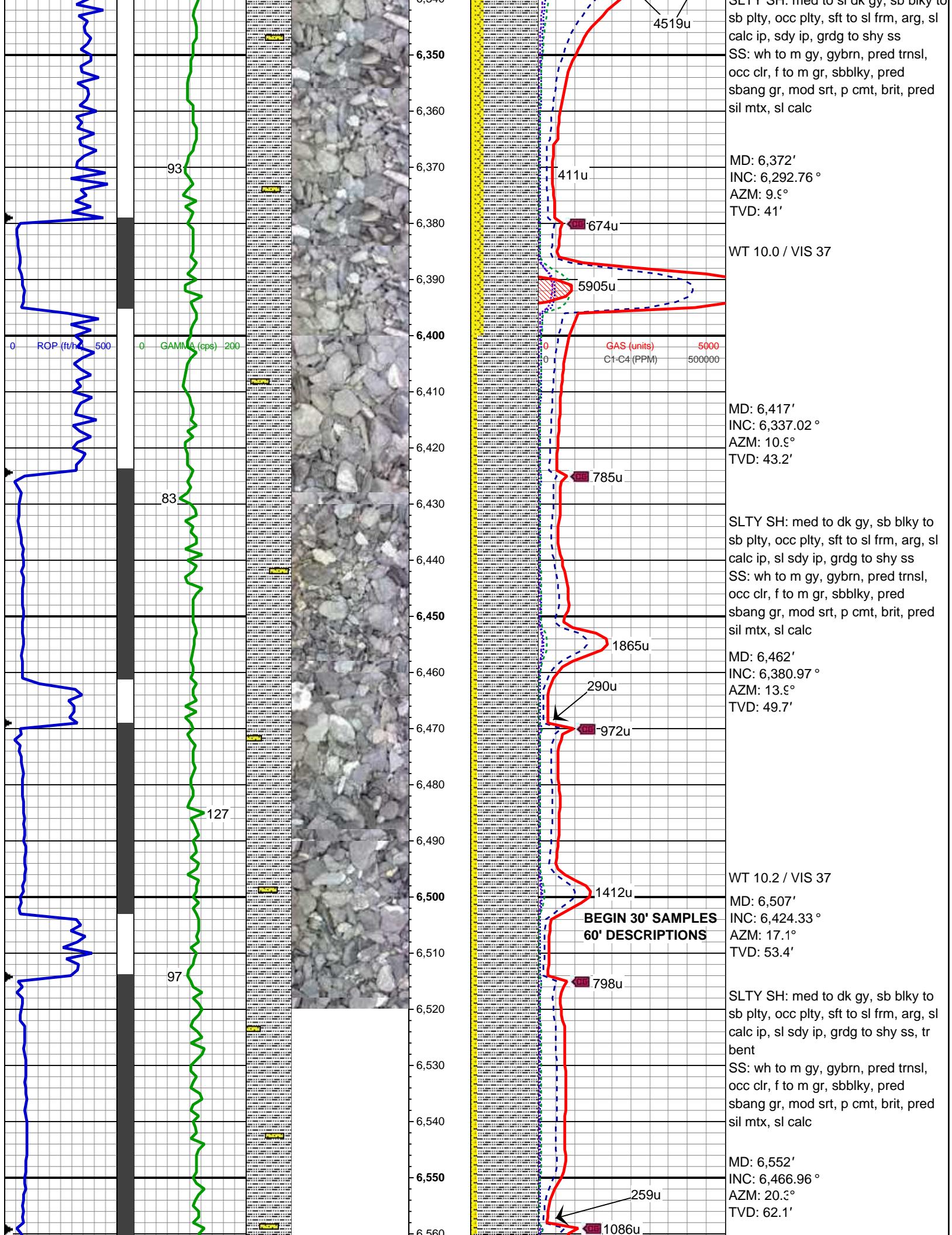


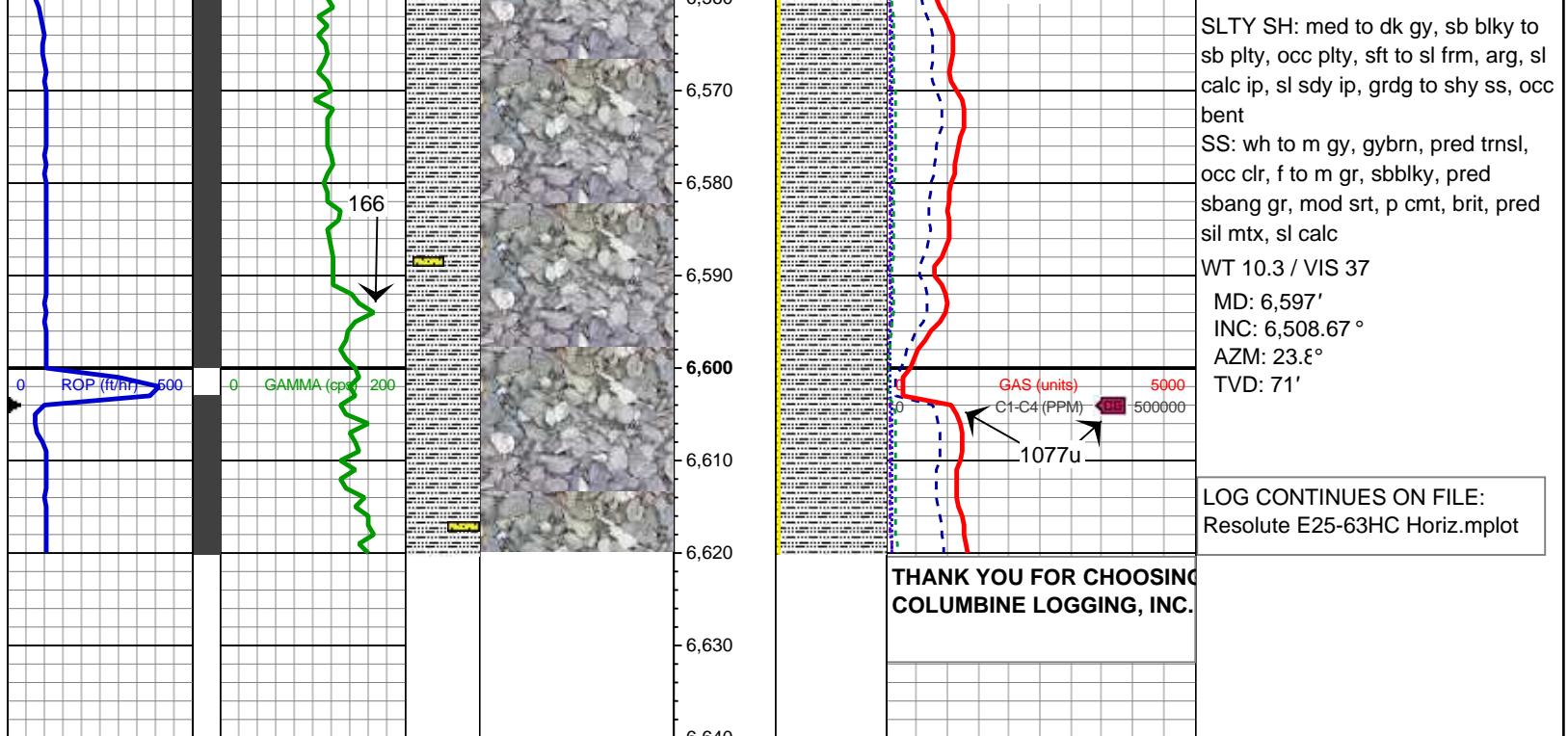












SLTY SH: med to dk gy, sb blky to
sb plty, occ plty, sft to sl frm, arg, sl
calc ip, sl sdy ip, grdg to shy ss, occ
bent

SS: wh to m gy, gybrn, pred trns,
occ clr, f to m gr, sbblk, pred
sbang gr, mod srt, p cmt, brit, pred
sil mtx, sl calc

WT 10.3 / VIS 37

MD: 6,597'

INC: 6,508.67°

AZM: 23.8°

TVD: 71'

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

THANK YOU FOR CHOOSING
COLUMBINE LOGGING, INC.

GAS (units)
C1-C4 (PPM)

5000
500000

1077u