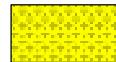


LOG created using Lplot VH Version 3.0, February 11, 2013, Copyright (C) 1999-2009 Pason Systems Corp.

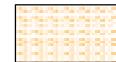
OPERATOR: NOBLE ENERGY INC.
WELL: ROHN LB22-62HN
LOCATION: SEC 21, T9N, R60W
COUNTY: WELD
STATE: COLORADO
SPOT: 650' FSL, 735' FWL
ELEVATION: GE: 4,982'; KB: 5,006'
FIELD: WILDCAT
SPUD DATE: 02/04/2013
TD DATE: 02/10/2013
DATES LOGGED: 02/05/2013 - 02/10/2013
DEPTHS LOGGED: 1,000' - 10,617'
LOGGERS: BRAD WILSON, JOHN T. READY
DRILLING FLUID: WATER, MUD, POLY
DRILLING RIG: H&P 322
API: # 05-123-36293
LOG TYPE: VERTICAL
SCALE: 1:240 (5 inches per 100 feet)
REMARKS: WELLSITE GEOLOGICAL SERVICES PROVIDED BY COLUMBINE LOGGING INC.

LITHOLOGIES

Sandstone



Shaly Sandstone



Shaly Siltstone



Siltstone



Silty Shale

ENGINEERING SYMBOLS

Connection



Connection Gas



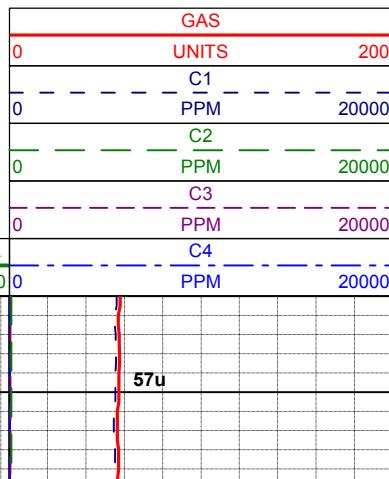
Arrow

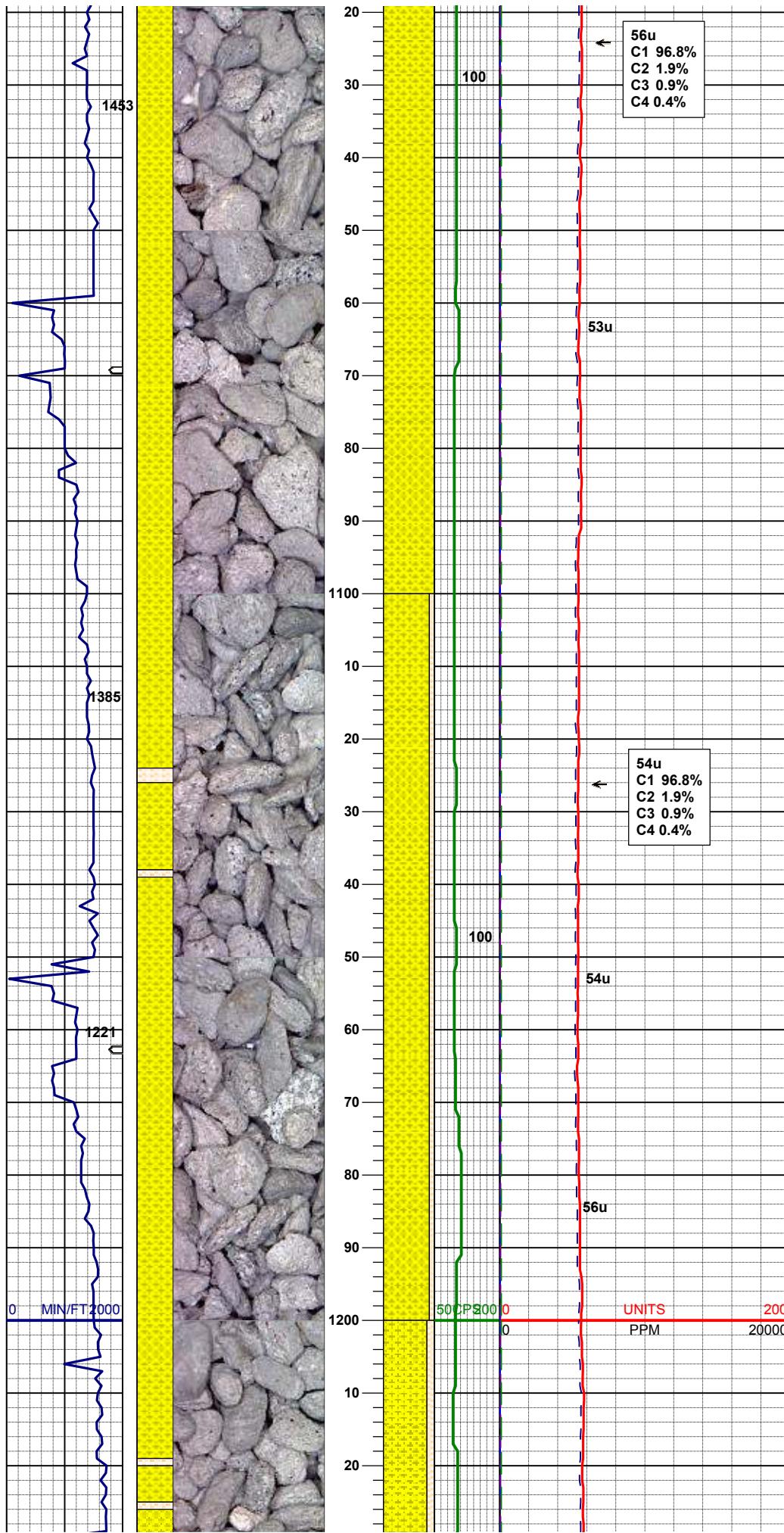


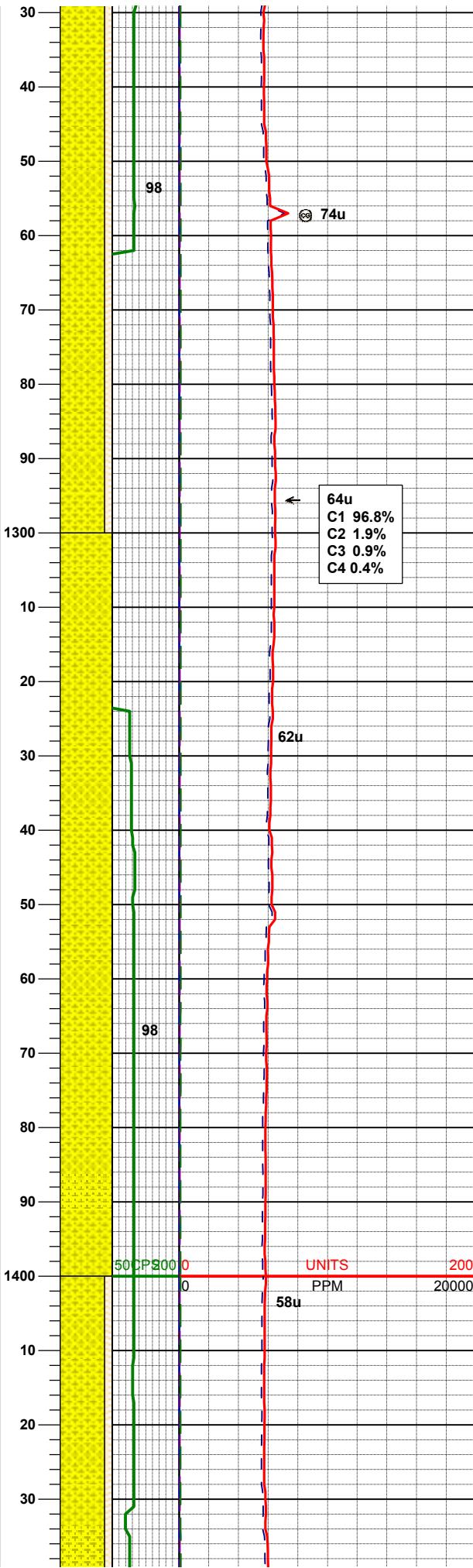
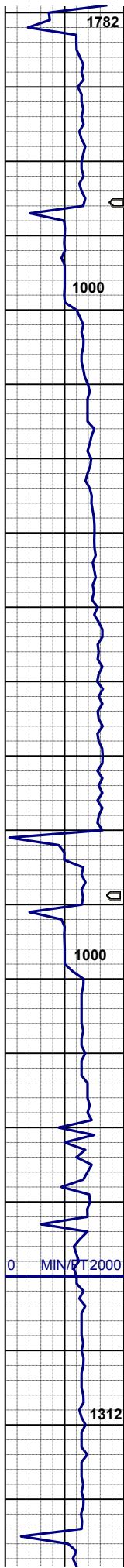
Midnight Depth



Arrow





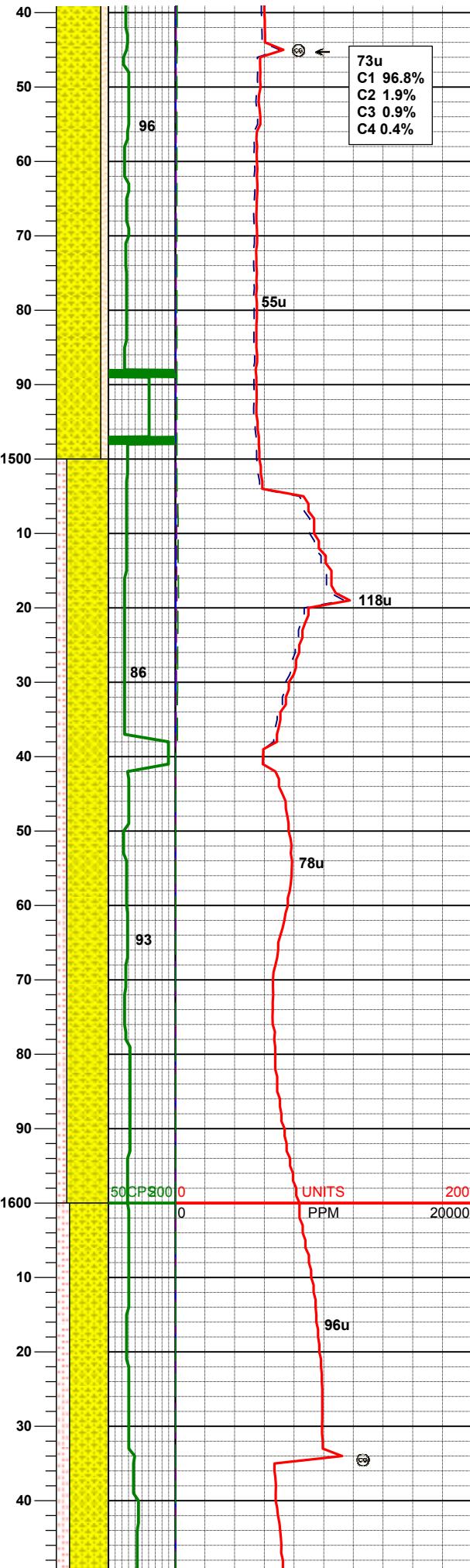
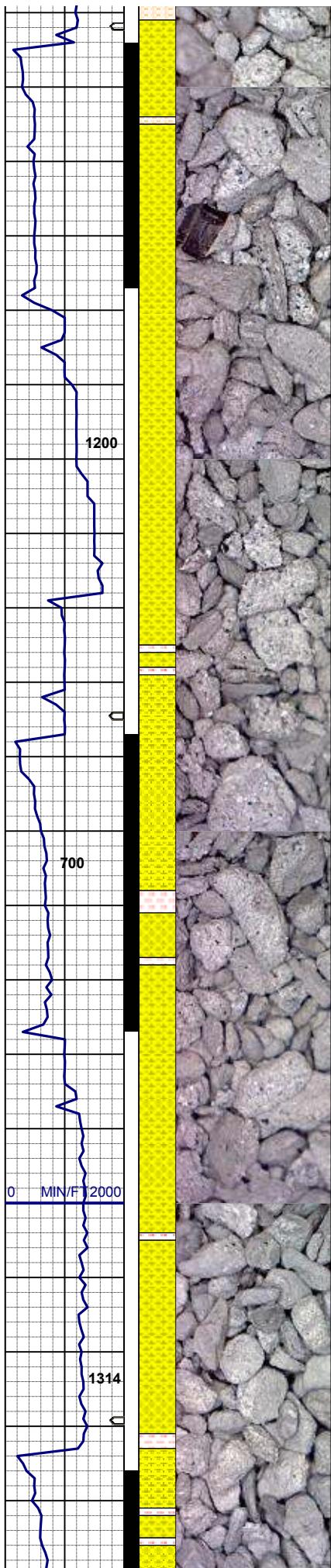


85% SHYSS: Itgy- tr s&p, vf-fgr, sbrd - sbang,
mod srt, firm- fri, p por, arg cmt, rr biot, rr glau,
sme dk gy cly
15% SHALY SLTST: Itgy, sft- fri, sbblkly- sl
sbplty, aren- slty tex, tr biot incl

MUD WT 8.4 VIS 28

100% SHYSS: Itgy- tr s&p, vf-fgr, sbrd - sbang,
mod srt, firm- fri, p por, arg cmt, rr biot, rr glau,
occ grdg - sitst

MD 1383'
INC .96
AZM 41.45

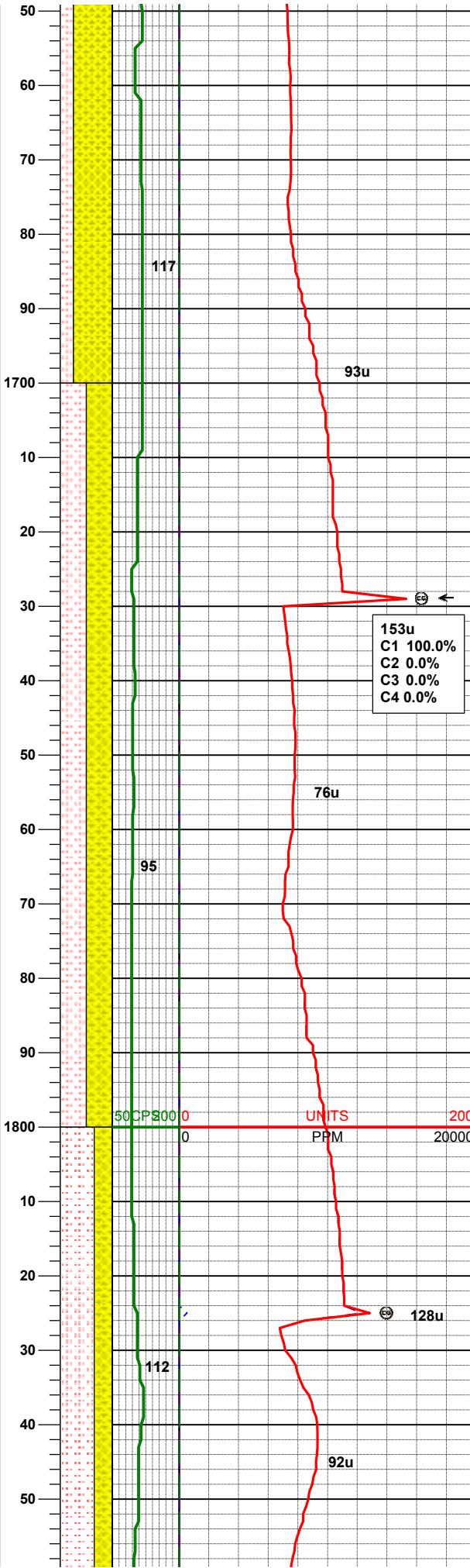
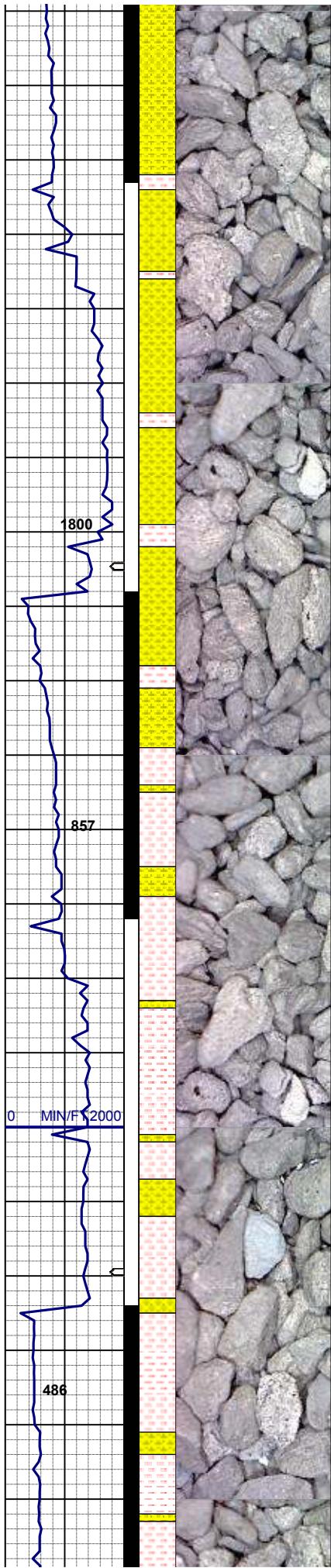


80% SHYSS: Itgy- tr s&p, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, tr glau, grdg - slst
20% SLTST: Itgy, sft- fri, sbblk, aren- v slty tex, occ biot incl

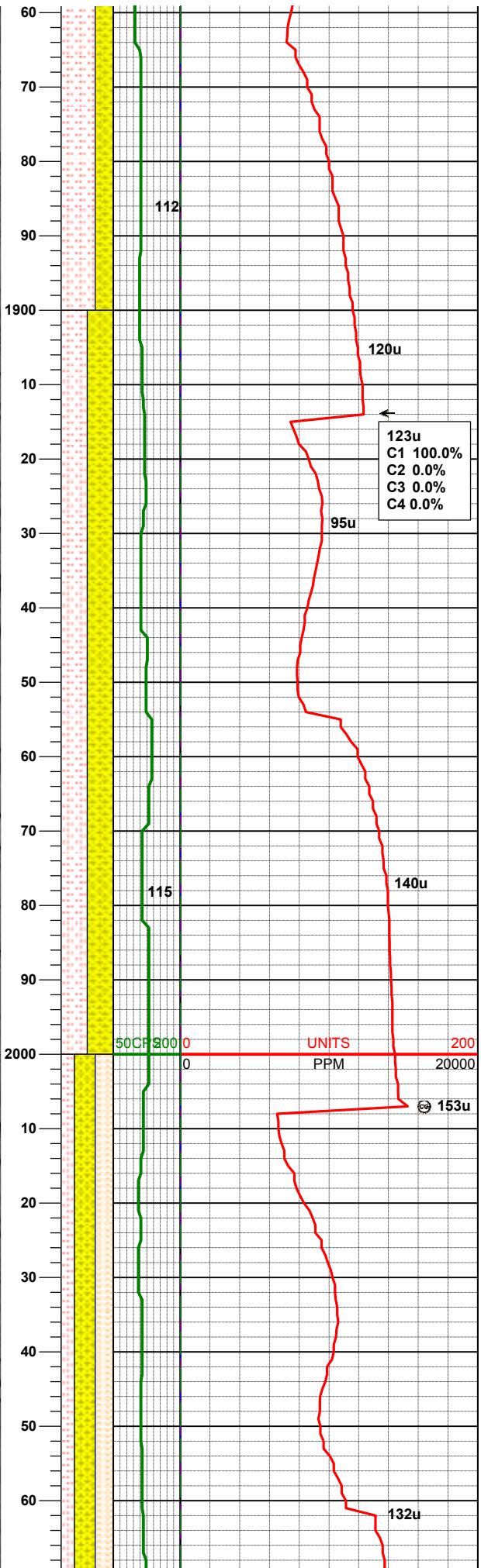
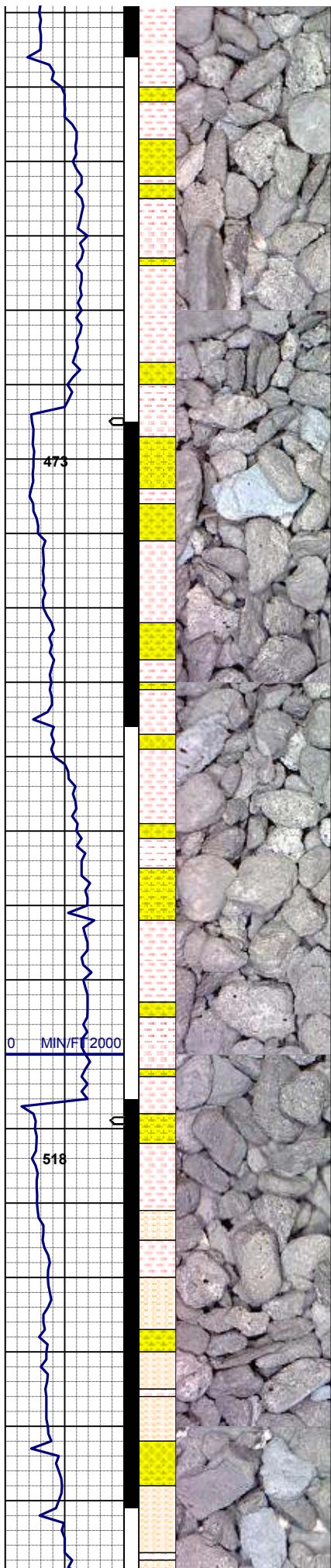
MD 1571'
INC 3.94
AZM 41.91

MUD 8.4 VIS 27

75% SHYSS: Itgy- tr s&p, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, tr glau, grdg - slst



MD 1855'
INC 8.28
AZM 44.26



65% SLTST: Itgy, firm- sft- fri, sbblk, aren, slty -v sly tex, occ biot incl

35% SHYSS: Itgy- tr s&p, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, tr glau, grdg - slst

50% SHYSS: Itgy- tr s&p, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - slst

50% SLTST: Itgy, sft- fri, sbblk, aren- v sly tex, occ biot incl

MD 1950'
INC 9.73
AZM 37.09

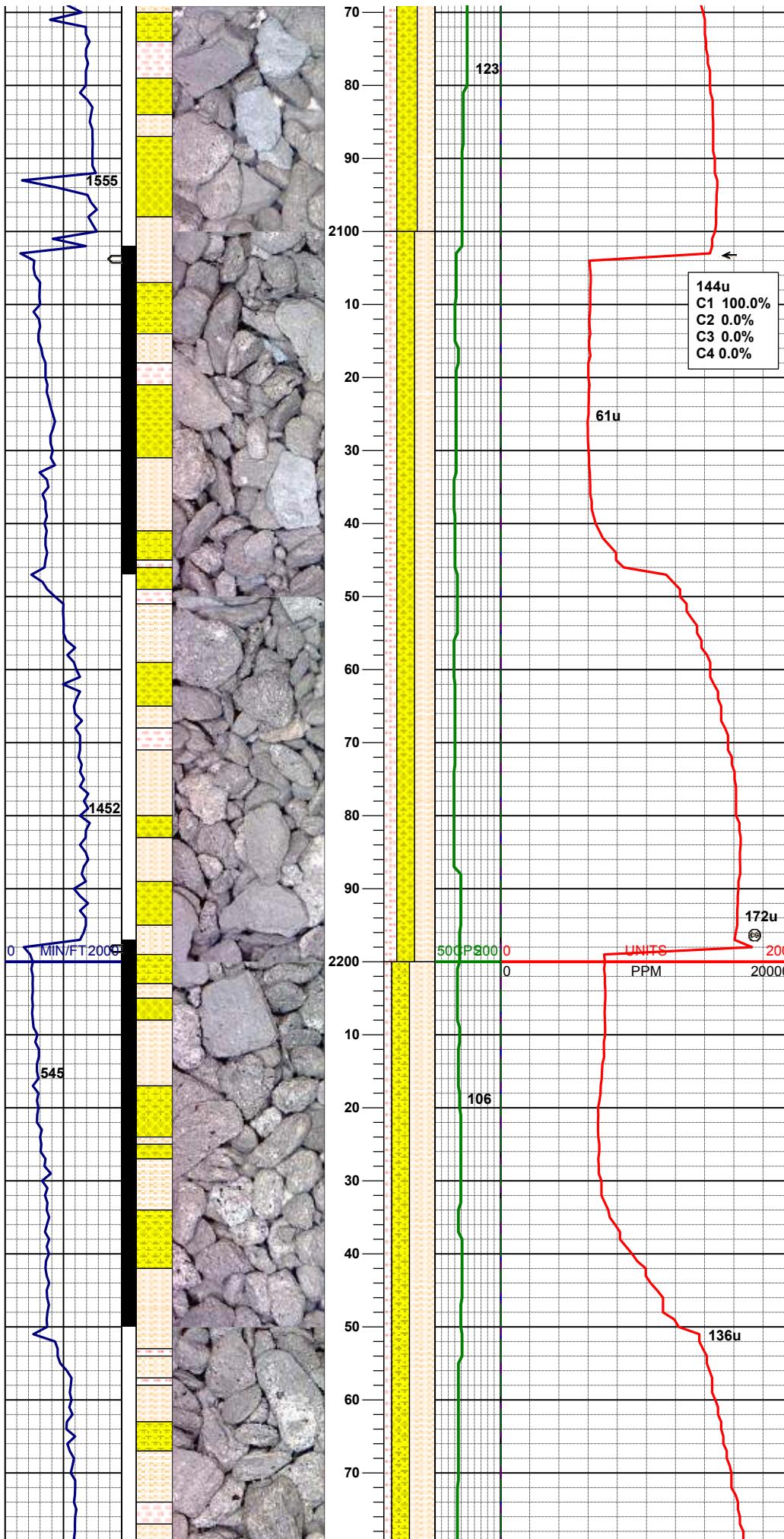
MUD WT 8.4 VIS 27

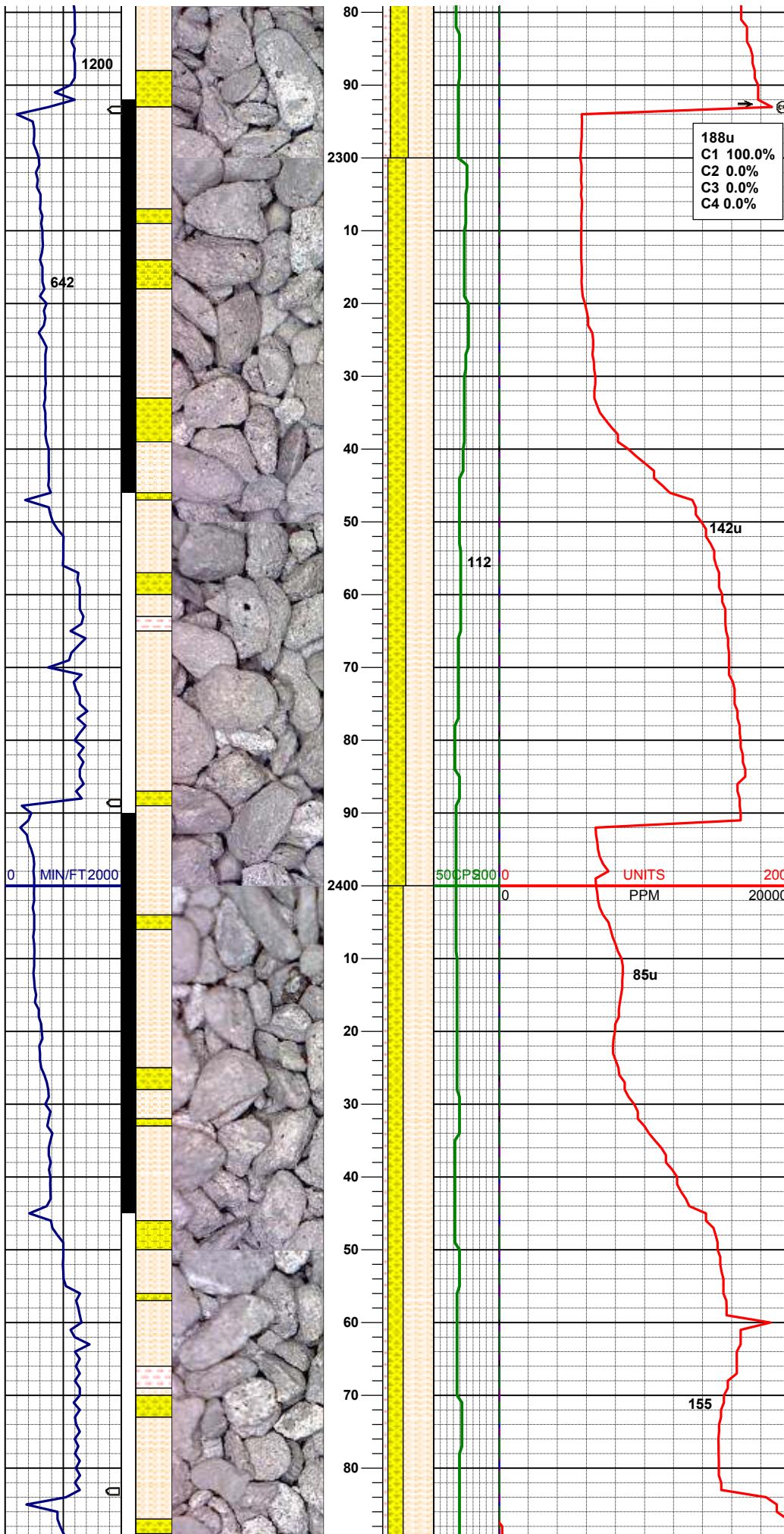
MD 2045'
INC 11.55
AZM 40.31

40% SHYSS: Itgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - slst

35% SHALY SLTST: Itgy, sft- fri, sbblk, sl sbplty, aren- sly tex, tr biot incl

25% SLTST: Itgy, sft- fri, sbblk, aren- v sly tex, occ biot incl



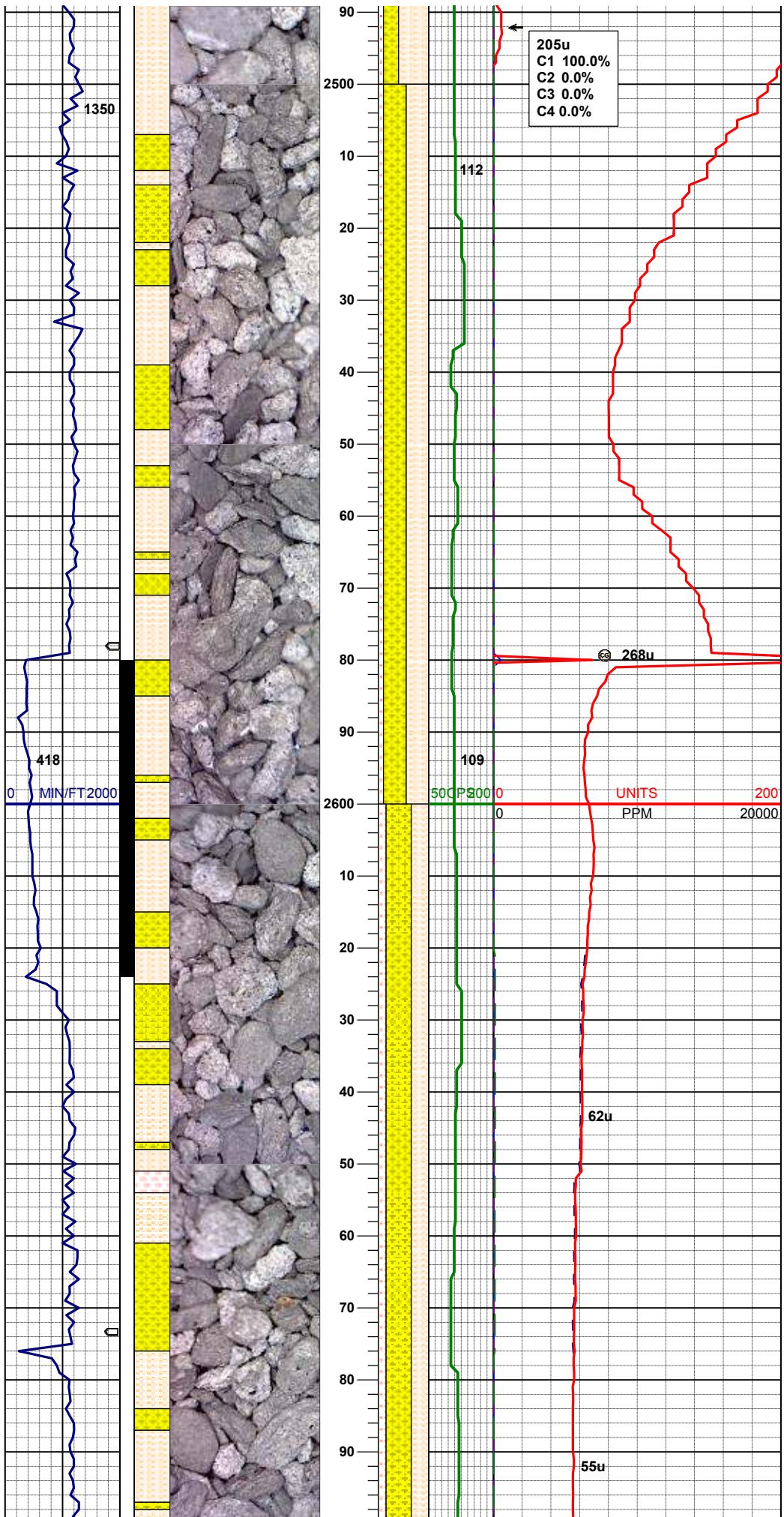


MD 2330'
INC 14.82
AZM 39.41

55% SHALY SLTST: Itgy, sft-fri, sbblkly-slpsty, aren-sly tex, tr biot incl
35% SHYSS: Itgy, vf-fgr, sbrd - sbang, mod srt, firm-fri, v por, arg cmt, tr biot, grdg - slst
10% SLTST: Itgy, sft-fri, sbblkly, aren-v sly tex, occ biot incl

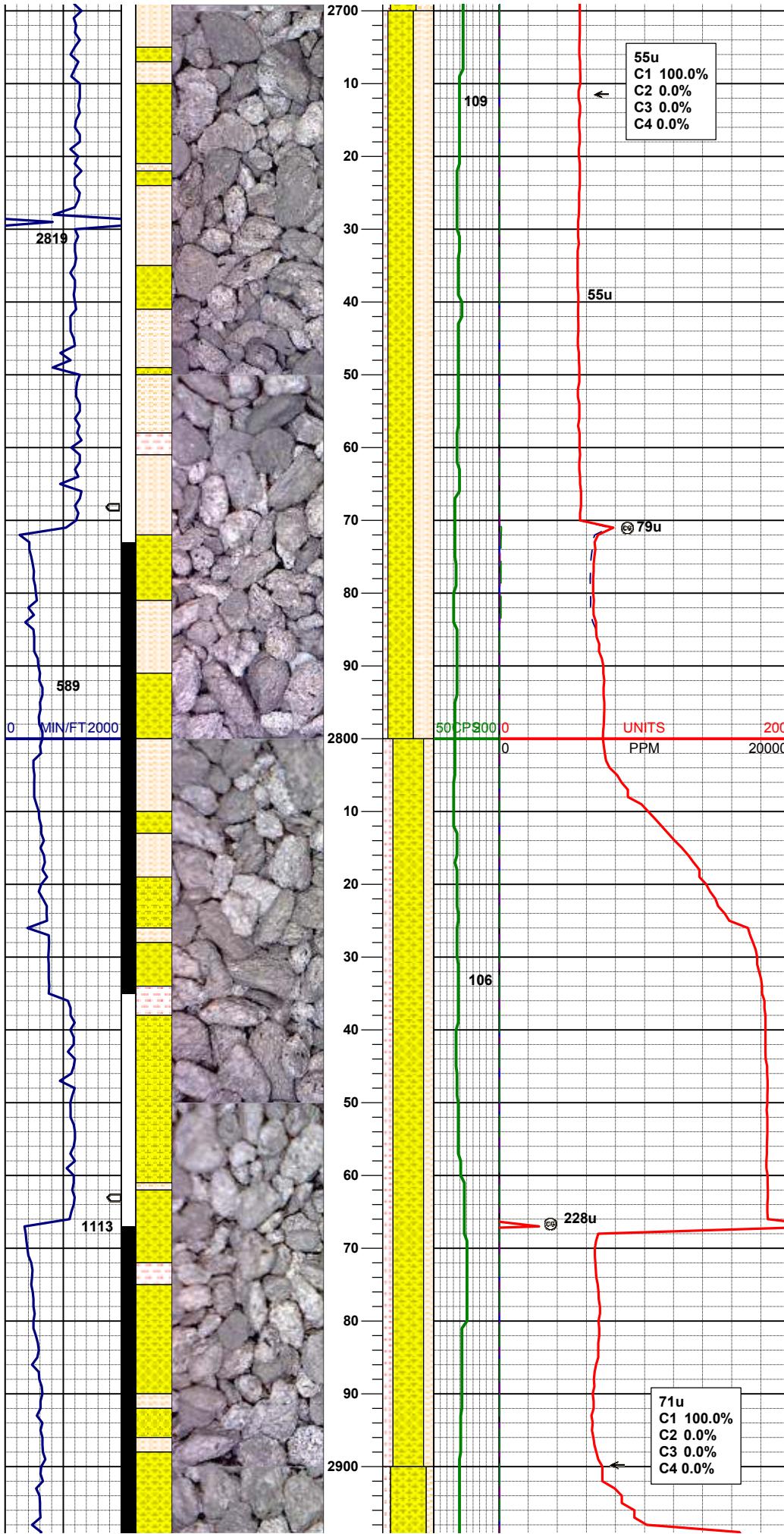
MD 2425'
INC 16.04
AZM 42.79

60% SHALY SLTST: Itgy, sft-fri, sbblkly-slpsty, aren-sly tex, tr biot incl
30% SHYSS: Itgy, vf-fgr, sbrd - sbang, mod srt, firm-fri, v por, arg cmt, tr biot, grdg - slst
10% SLTST: Itgy, sft-fri, sbblkly, aren-v sly tex, occ biot incl



MD 2615'
INC 16.14
AZM 39.58

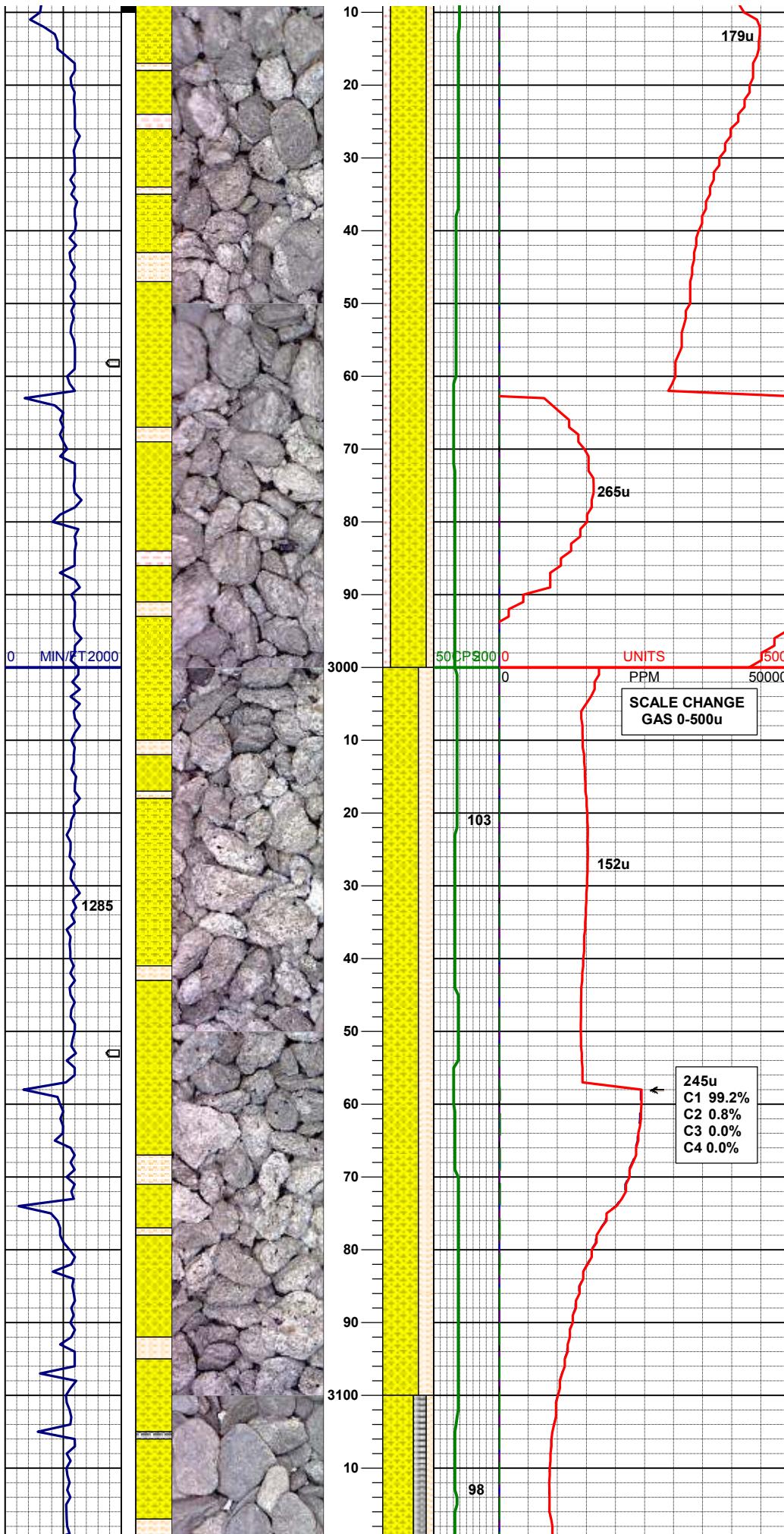
50% SHYSS: Itgy, vf-fgr, sbrd - sbang, mod srt,
firm- fri, v por, arg cmt, tr biot, grdg -sltst
35% SHALY SLTST: Itgy, sft- fri, sbblk- sl
sbplty, aren- slty tex, tr biot incl
15% SLTST: Itgy, sft- fri, sbblk, aren- v slty
tex, occ biot incl



MD 2710'
INC 13.99
AZM 36.73

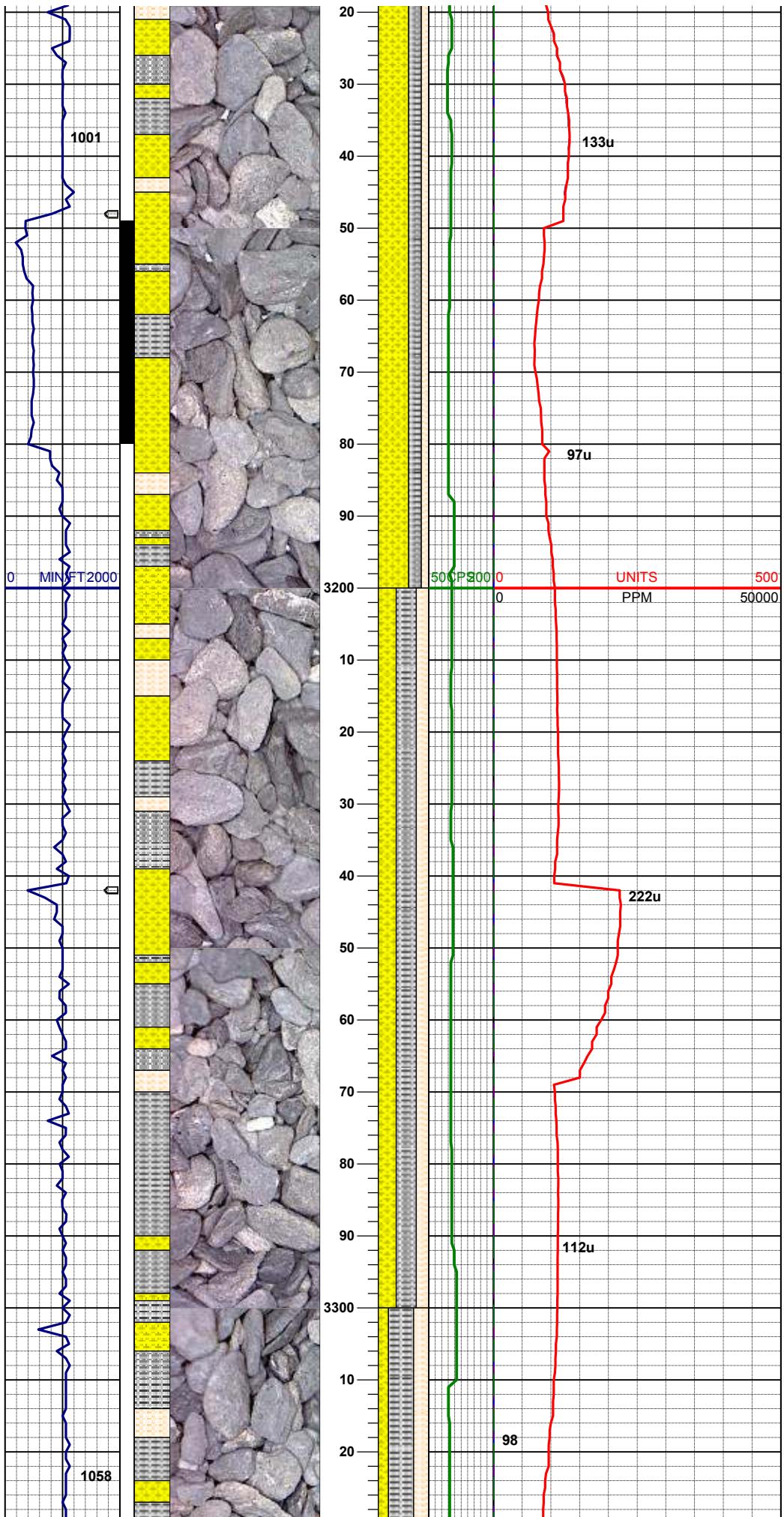
MD 2805'
INC 14.91
AZM 38.39

MD 2900'
INC 16.44
AZM 40.99



MD 2995'
INC 17.06
AZM 39.33

MD 3090'
INC 16.66
AZM 39.78

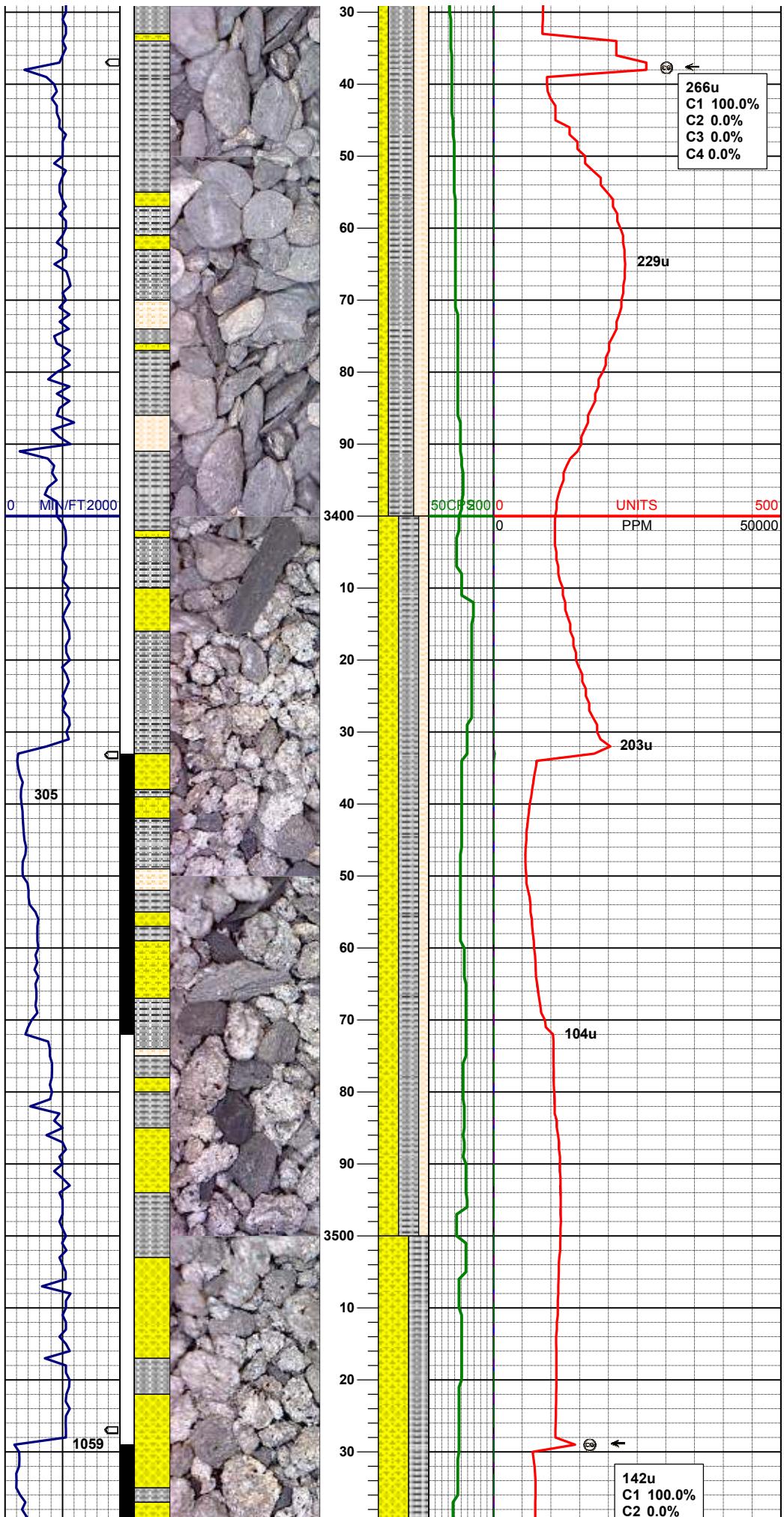


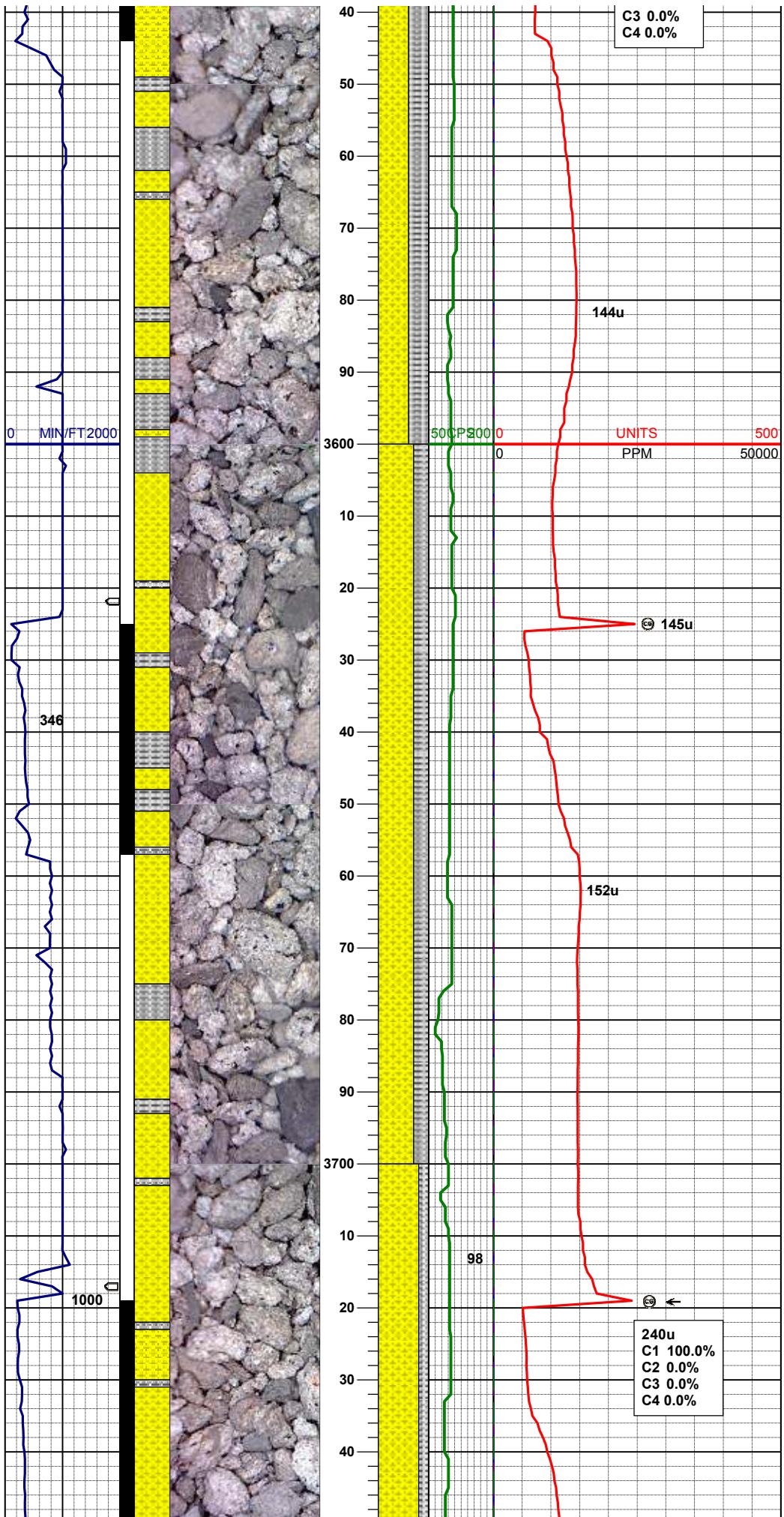
60% SHYSS: ltgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - sitst
25% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbblk - sbplty, rthy sl silty tex, hom
15% SHALY SLTST: ltgy, sft- fri, sbblk - sl sbplty, aren- silty tex

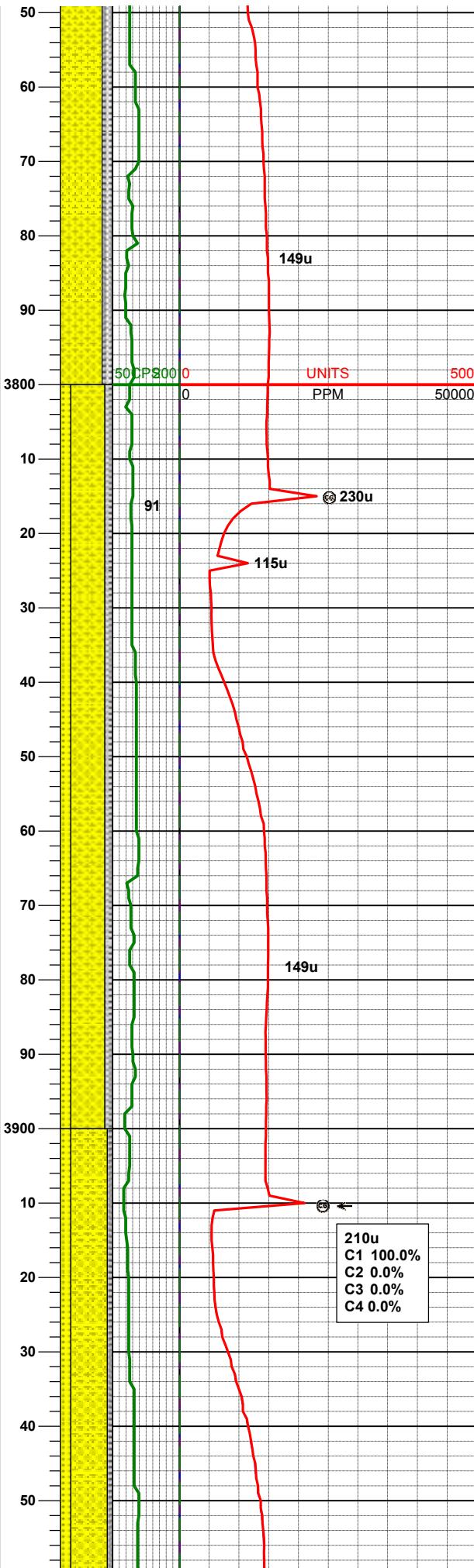
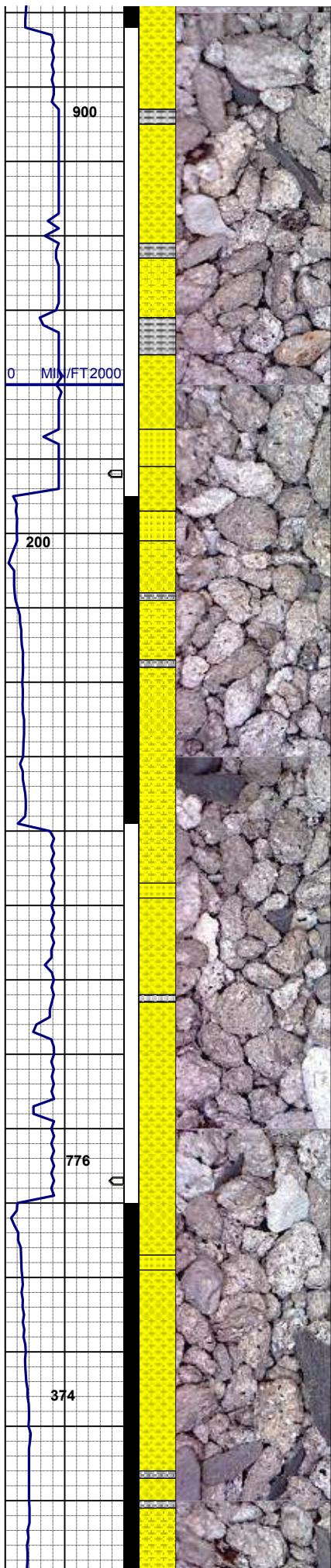
MD 3184'
INC 15.17
AZM 44.06

40% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbblk - sbplty, rthy sl silty tex, hom
35% SHYSS: ltgy, vf-fgr, sbrd - sbang, mod srt, firm fri, v por, arg cmt, tr biot, grdg - sitst
25% SHALY SLTST: ltgy, sft- fri, sbblk - sl sbplty, aren- silty tex

MD 3279'
INC 12.66
AZM 42.60







20% SILTY CH. mgybrn occ v dk gy, sft , sbblk - sbplty, rthy sl sly tex, hom

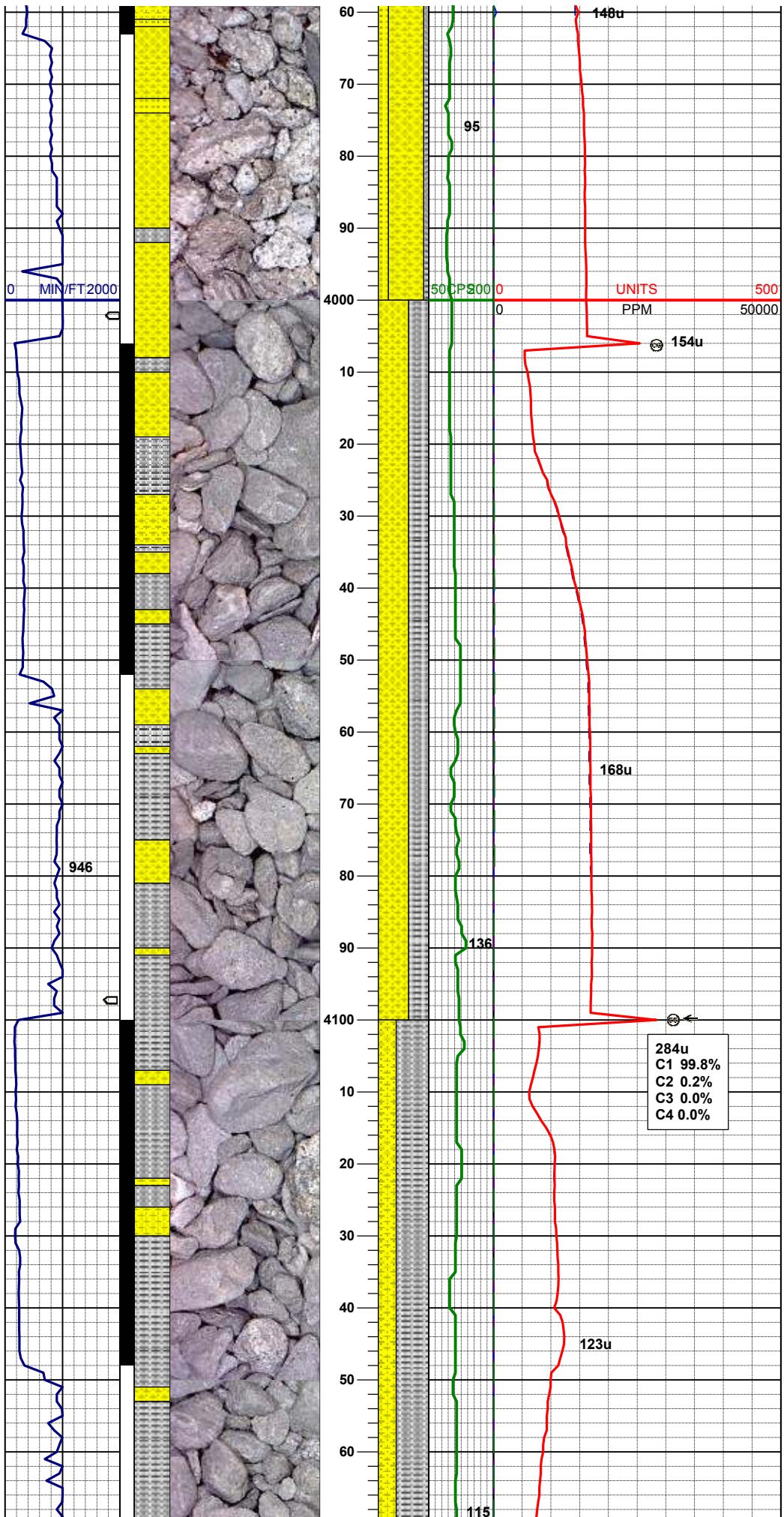
MD 3754'
INC 7.17
AZM 48.61

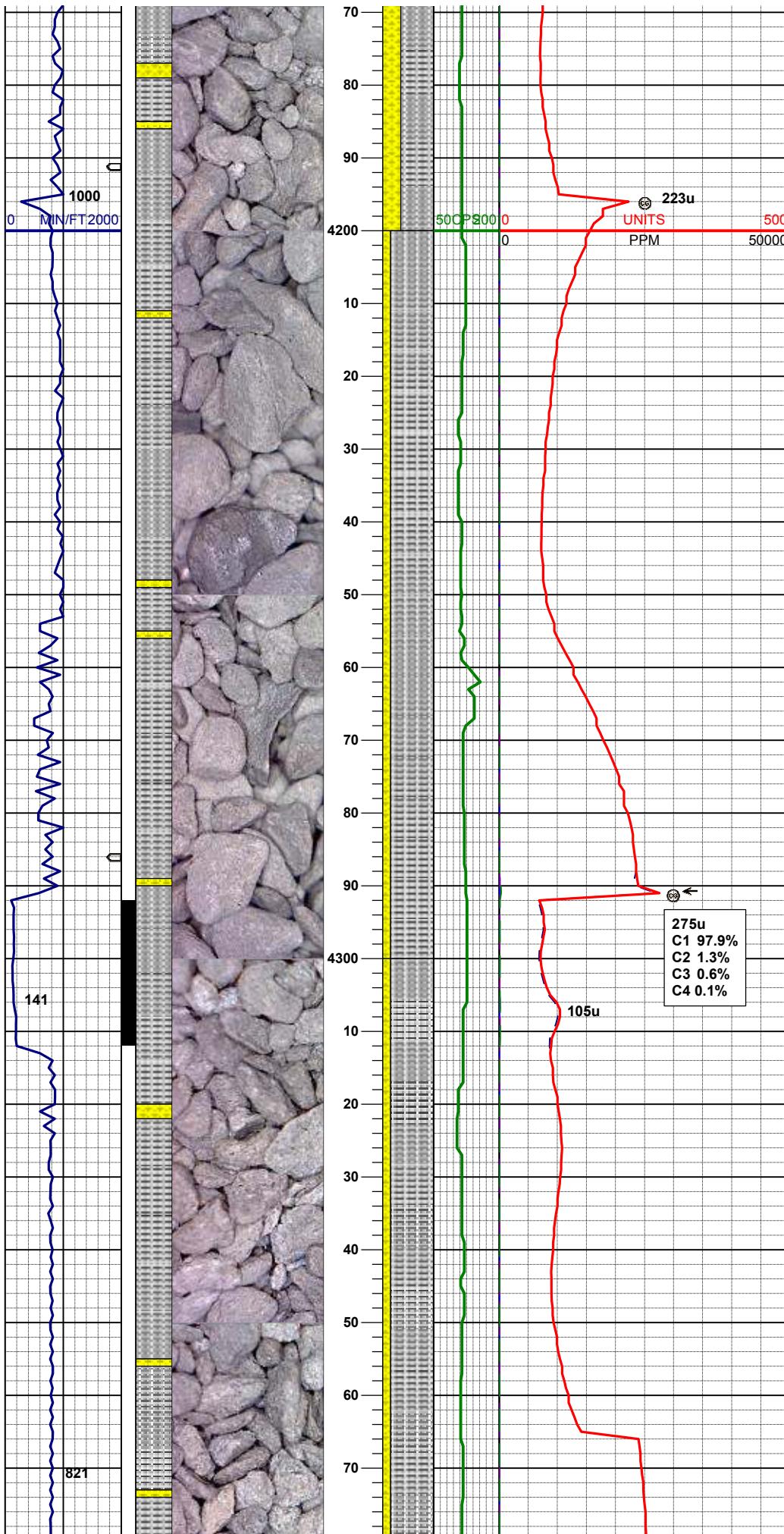
MD 3849'
INC 5.91
AZM 39.07

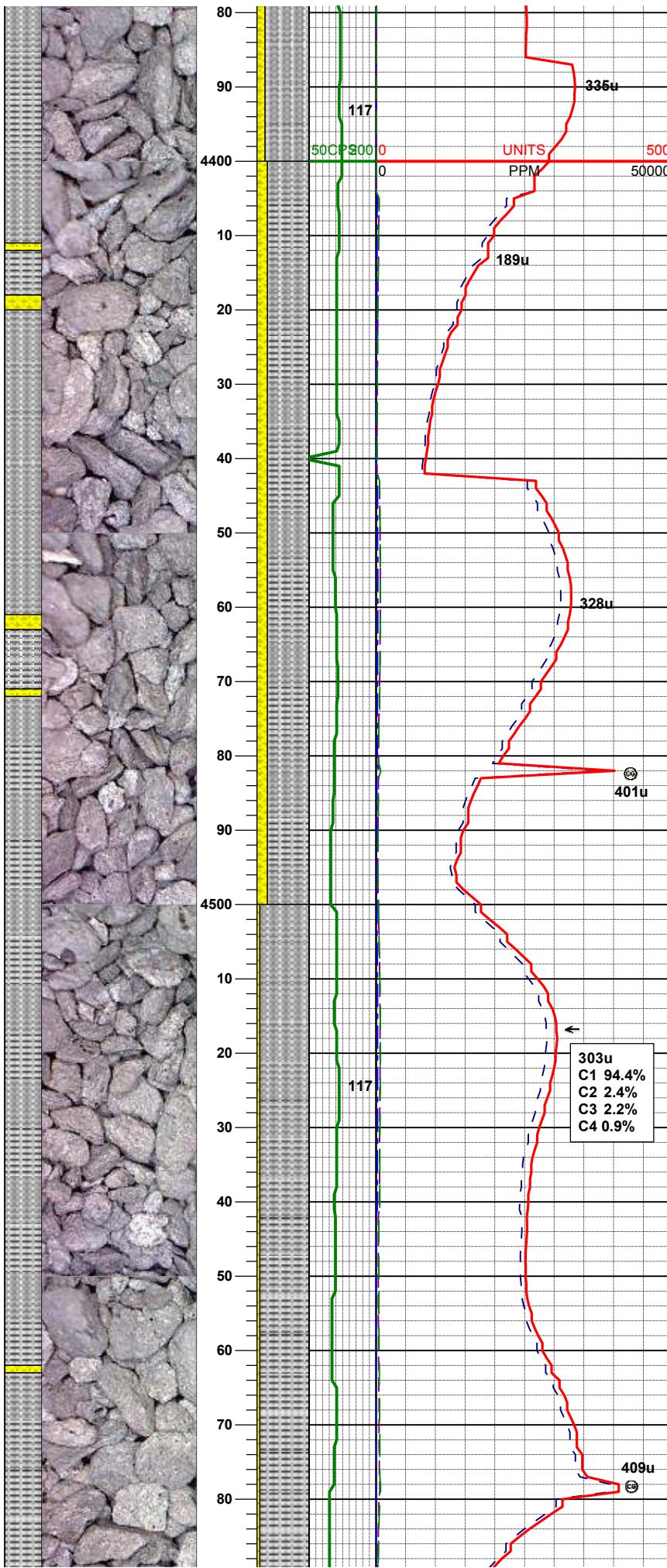
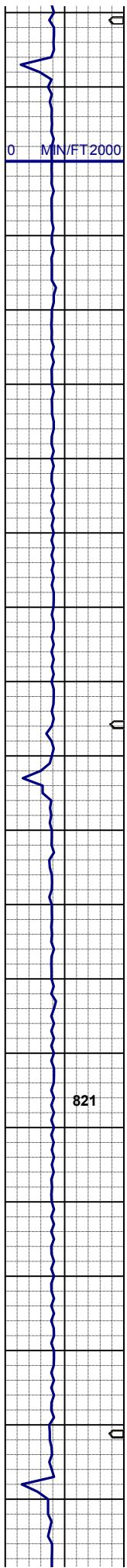
MD 3944'
INC 4.04
AZM 26.23

70% SHYSS: ltgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - siltst 20% SS: wh-op occ lt gy, s&p, fgr, sbrd-sbang, mod w srt, firm, brit 10% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbblk - sbplty, rthy sl sly tex, hom

210u
C1 100.0%
C2 0.0%
C3 0.0%
C4 0.0%





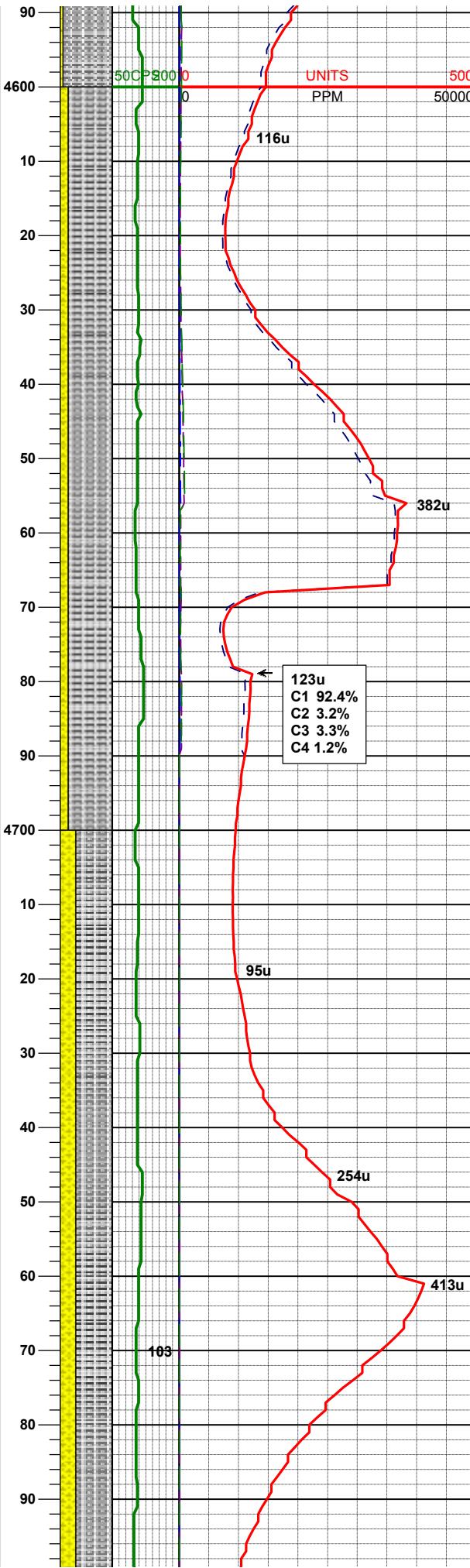
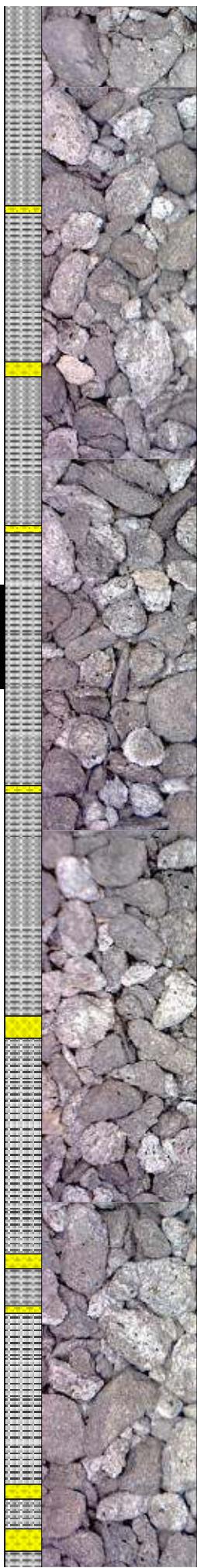
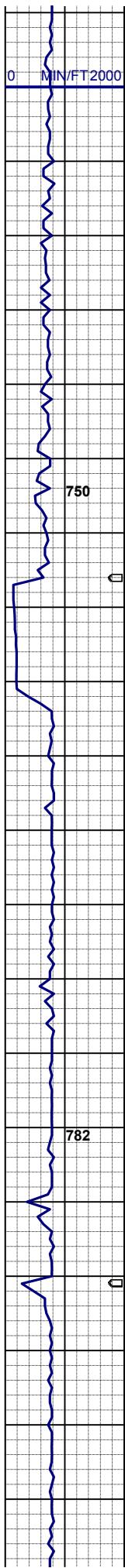


MD 4418'
INC 1.60
AZM 183.26

80% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbblk - sbpity, rthy sl silty tex, hom
20% SHYSS: Itgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - siltst

MD 4513'
INC 1.66
AZM 170.15

95% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbblk - sbpity, rthy sl silty tex, hom
5% SHYSS: Itgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - siltst

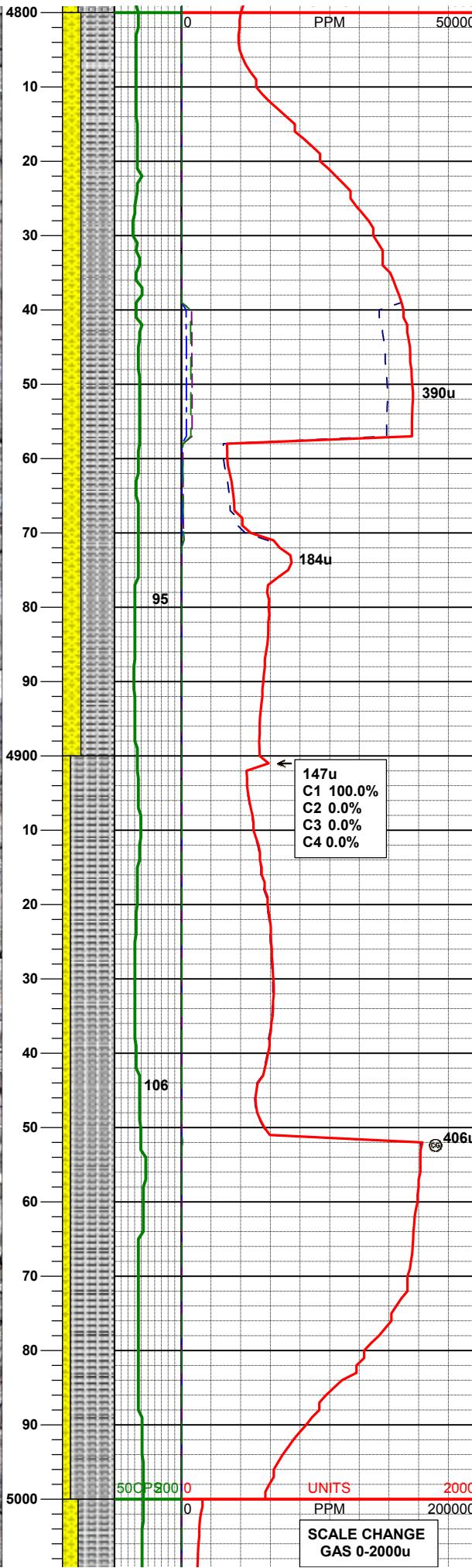
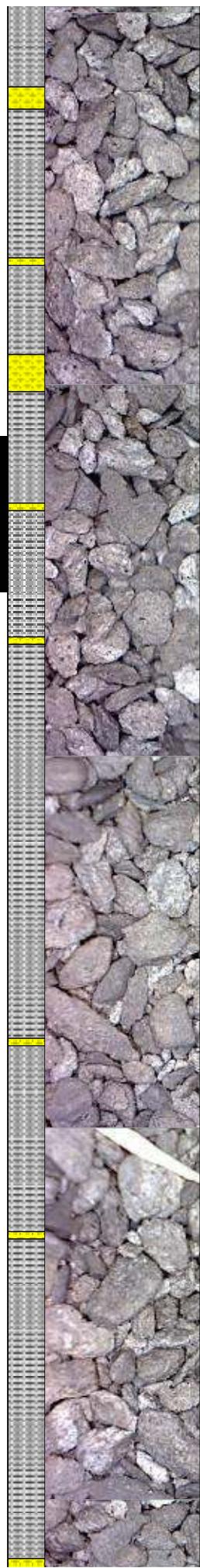
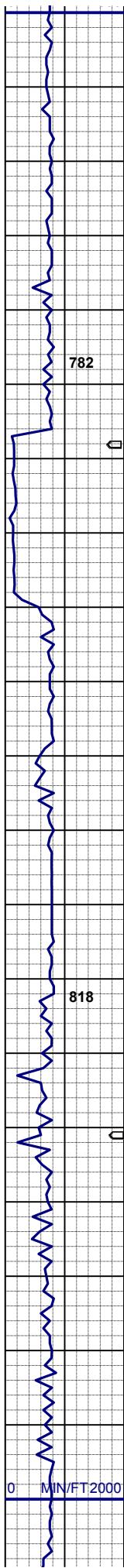


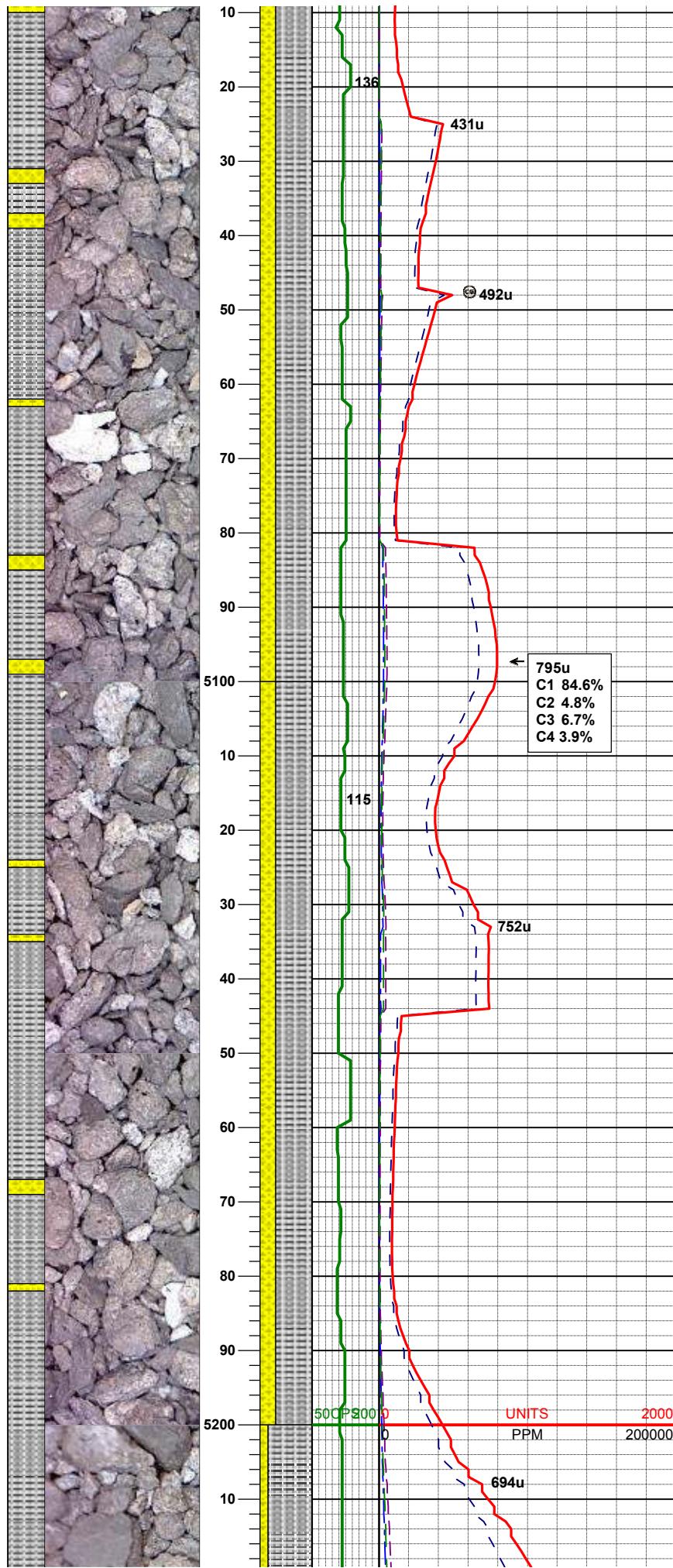
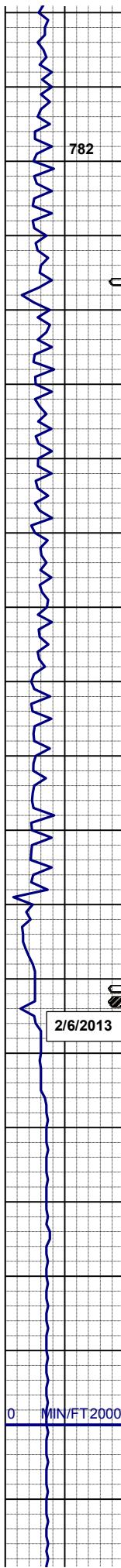
85% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbblk - sbplty, rthy sl silty tex, hom
15% SHYSS: ltgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - siltst

MD 4703'
INC 1.51
AZM 173.15

70% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbblk - sbplty, rthy sl silty tex
30% SHYSS: ltgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - siltst

MD 4798'
INC 1.84





70% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbbkly - sbpity, rthy sl silty tex
30% SHYSS: ltgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - sitst, tr biot

MD 5083'
INC 1.29
AZM 156.28

70% SILTY SH: m gy-mgybrn occ v dk gy, firm - sft , sbbkly - sbpity, rthy sl silty tex
30% SHYSS: ltgy, vf-fgr, sbrd - sbang, mod srt, firm- fri, v por, arg cmt, tr biot, grdg - sitst, tr biot

