

OPERATOR: **Bill Barrett Corp.**
WELL NAME: **Kunsemiller 5-61-20-0801B2B**
FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Cade 24
API #: 05-123-44296

LAT/LONG: 40.391092, -104.222592
SURFACE HOLE: NWNW S21-T5N-R61W, 1006' FNL, 300' FWL
BOTTOM HOLE: NWNW S19-T5N-R61W, 1' FNL, 460' FWL

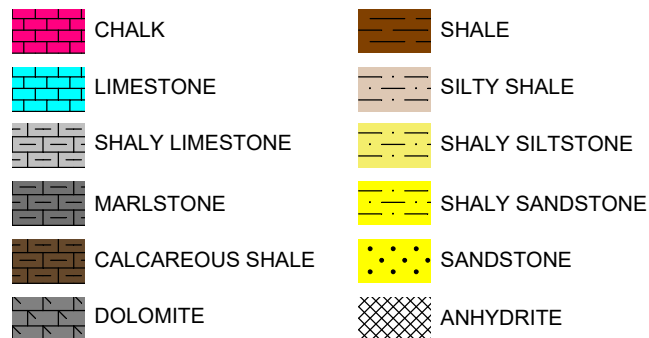


Earth Science Agency, LLC

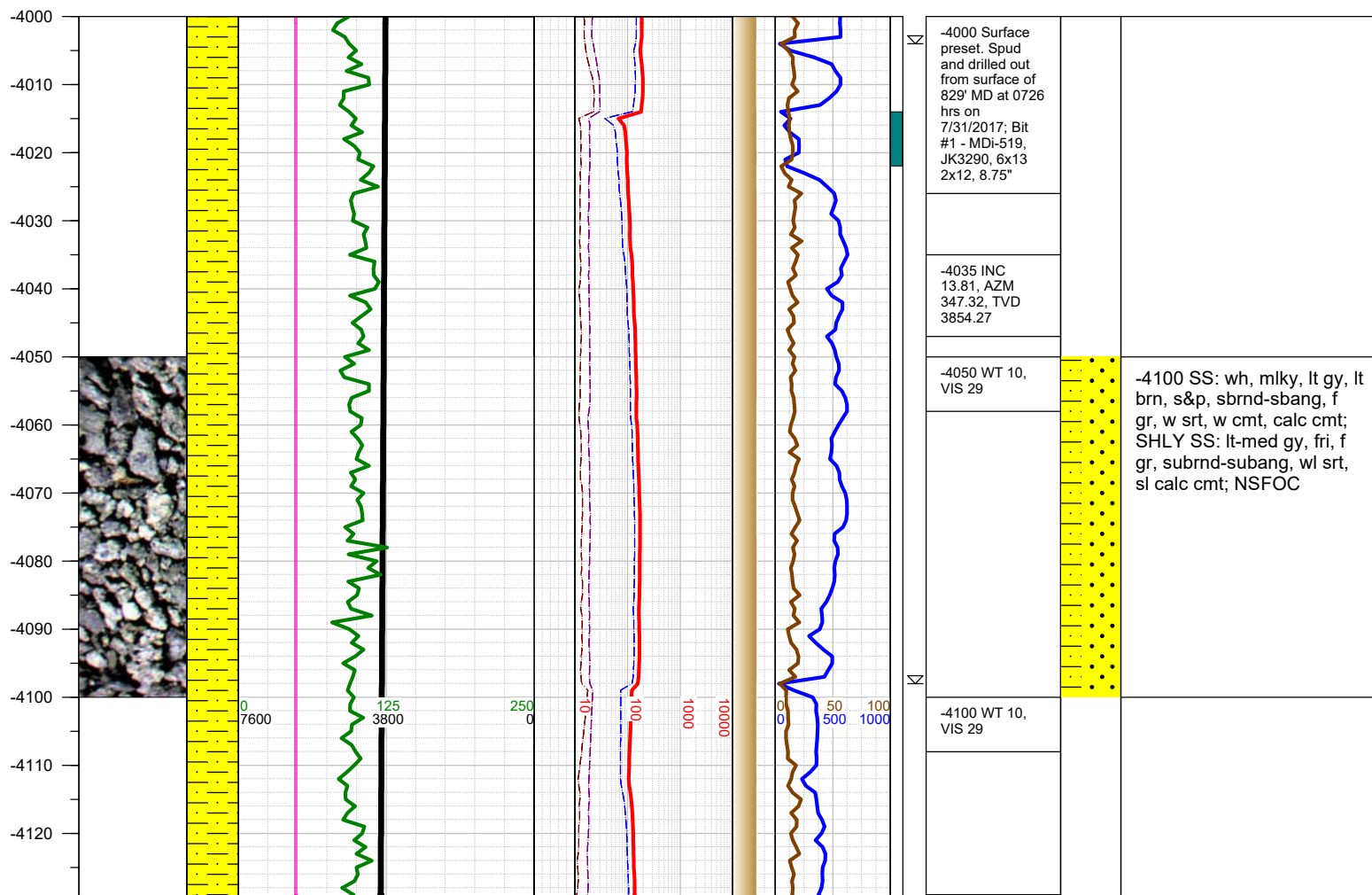
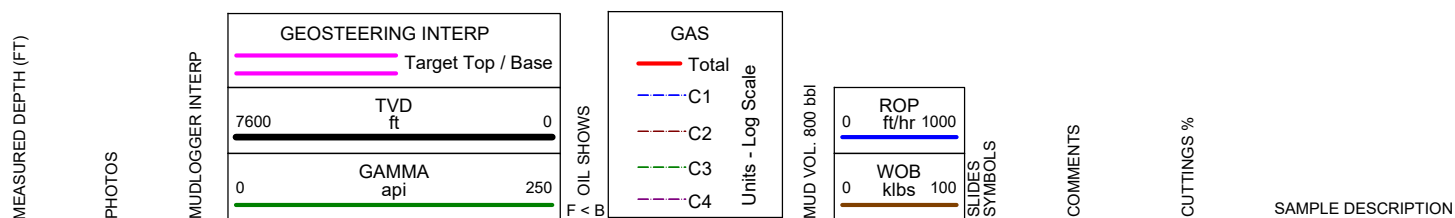
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4638'
KELLY BUSHING: 4654'
DRILLING FLUID: LSND
TVD VS. MD: 6130' / 16341'
SPUD DATE: July 31, 2017
TD DATE: August 5, 2017

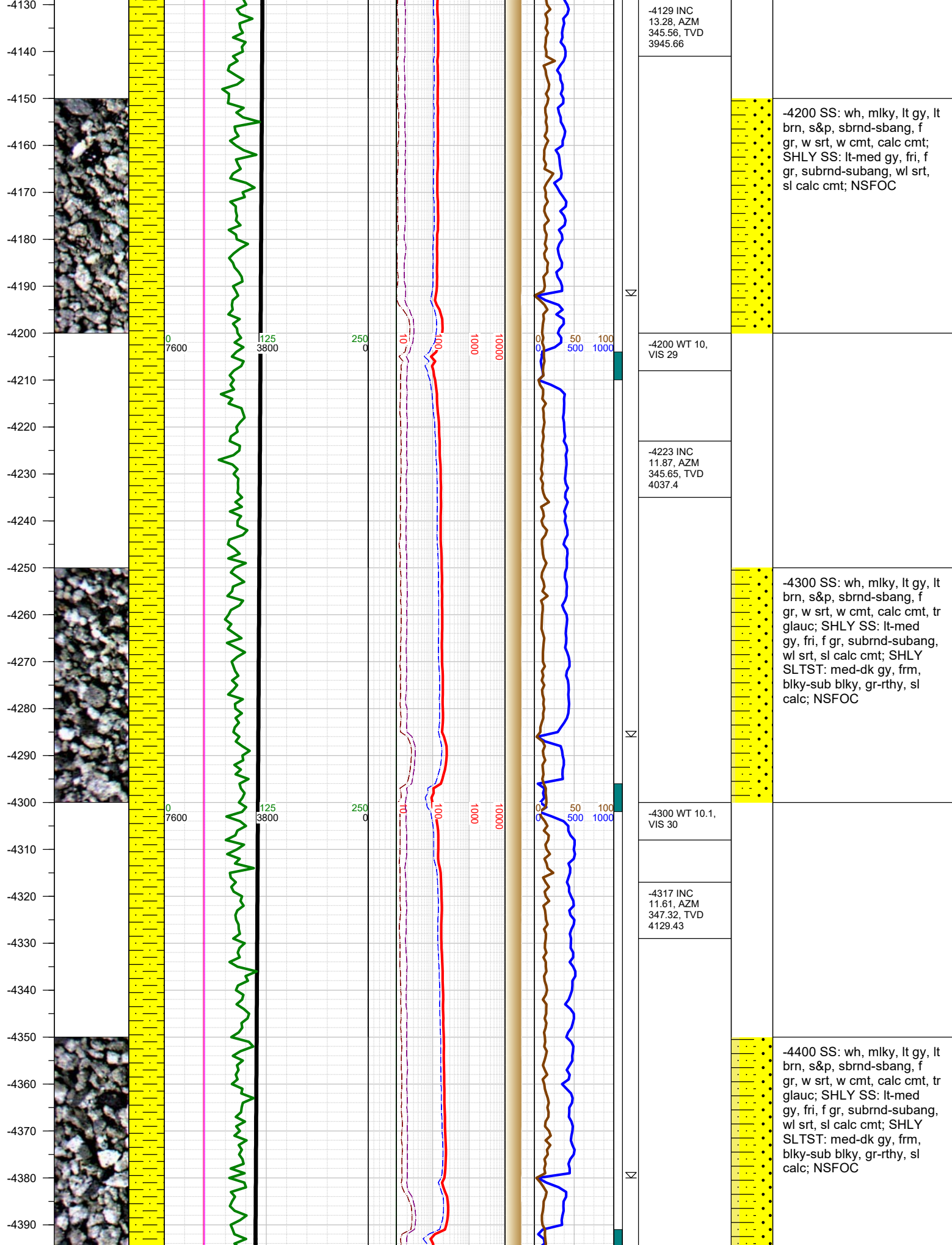
DEPTHS LOGGED: 4000' - 16341'
DATES LOGGED: July 31, 2017 - August 5, 2017
GEOLOGISTS: Frank Sattler, Nathan Brown
SCALE: 5" = 100'

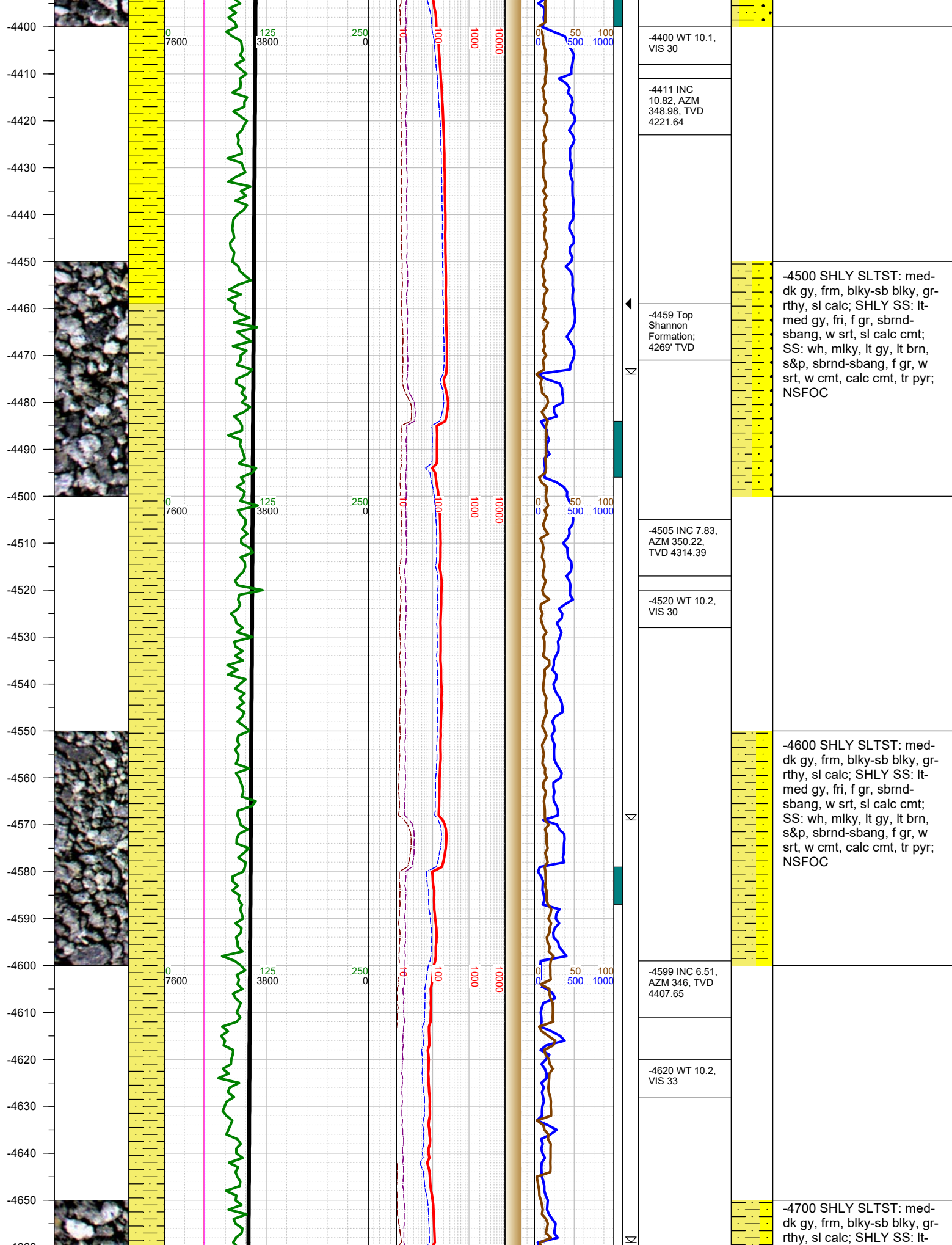
LEGEND



FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT







-4400 WT 10.1,
VIS 30

-4411 INC
10.82, AZM
348.98, TVD
4221.64

-4459 Top
Shannon
Formation;
4269' TVD

-4505 INC 7.83,
AZM 350.22,
TVD 4314.39

-4520 WT 10.2,
VIS 30

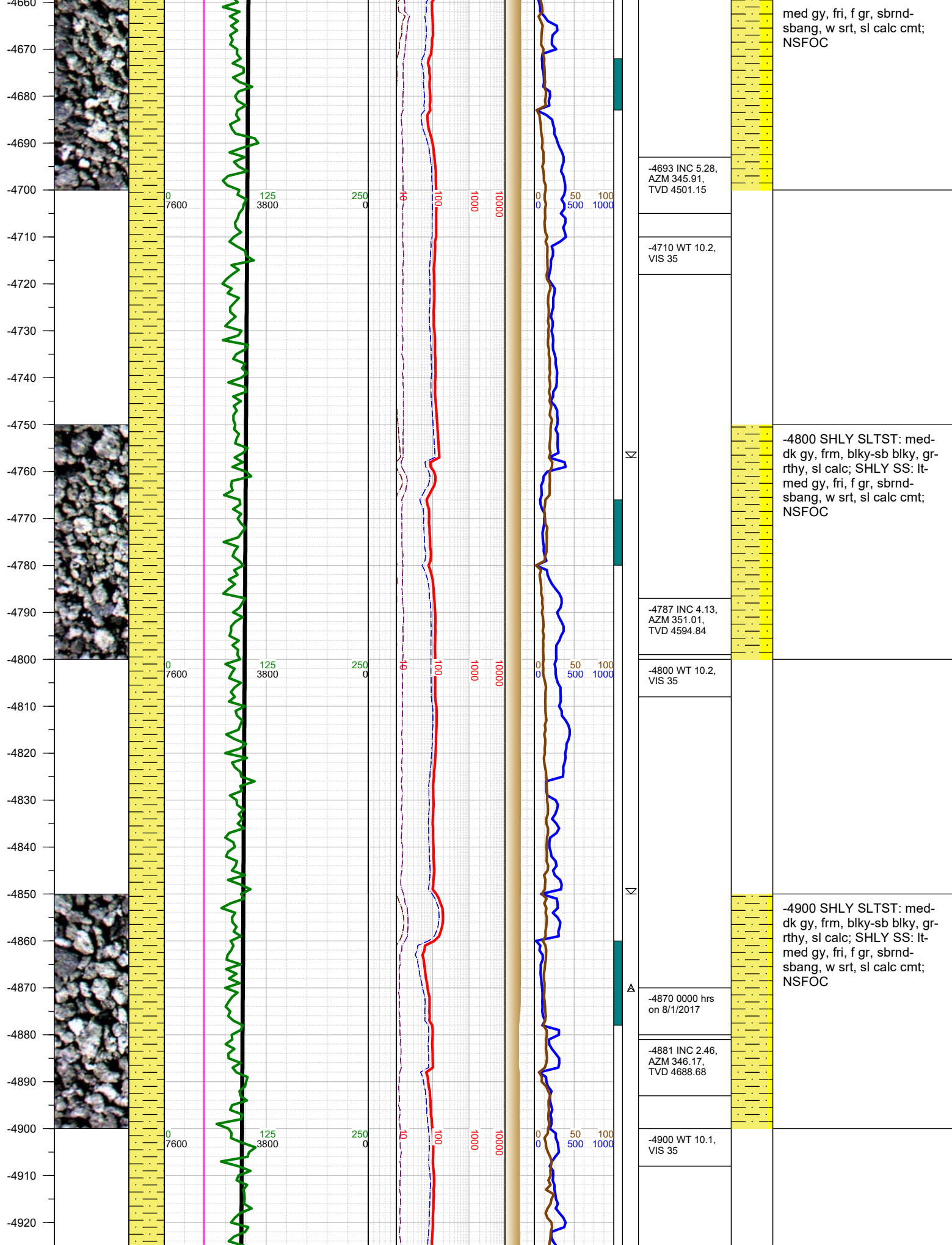
-4599 INC 6.51,
AZM 346, TVD
4407.65

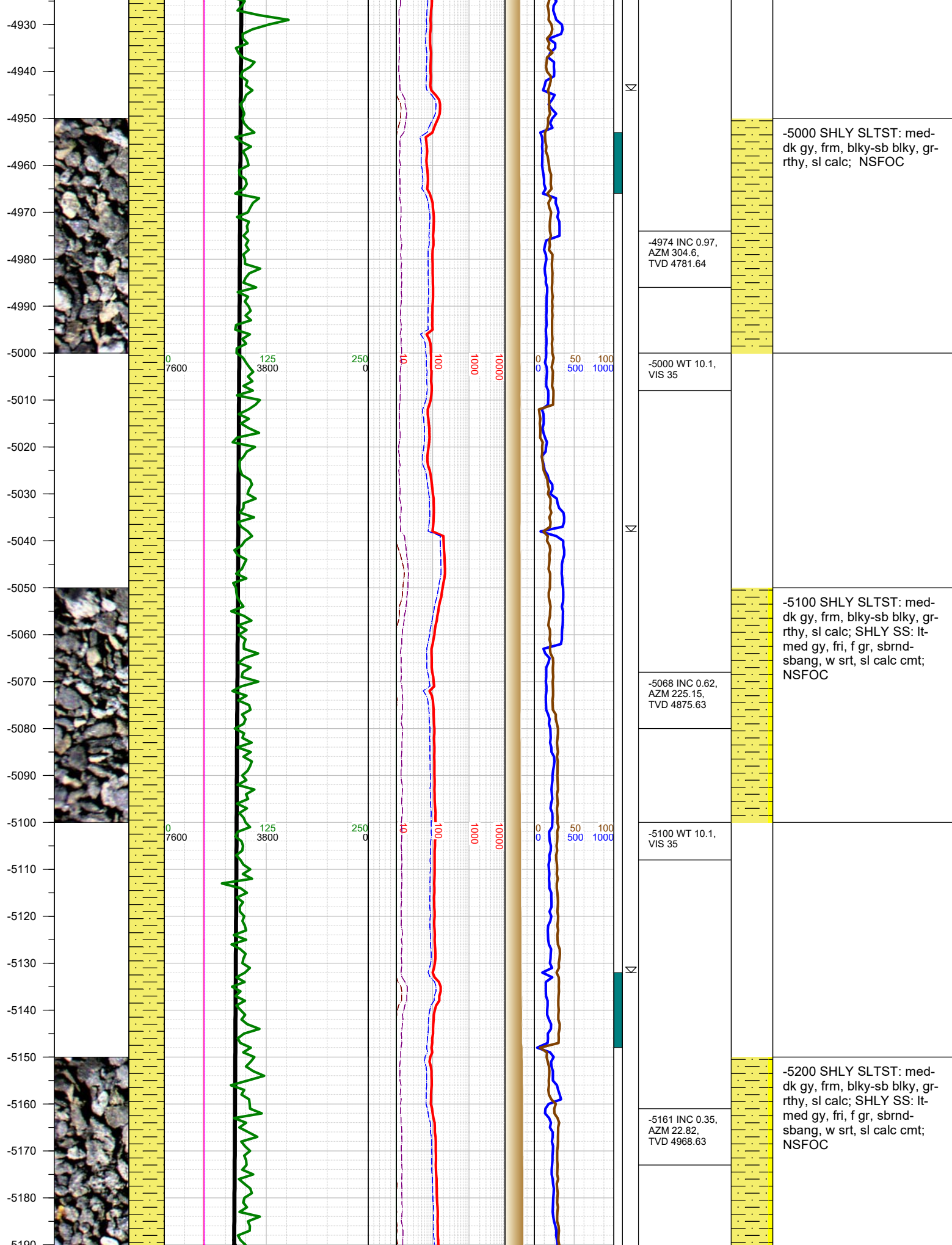
-4620 WT 10.2,
VIS 33

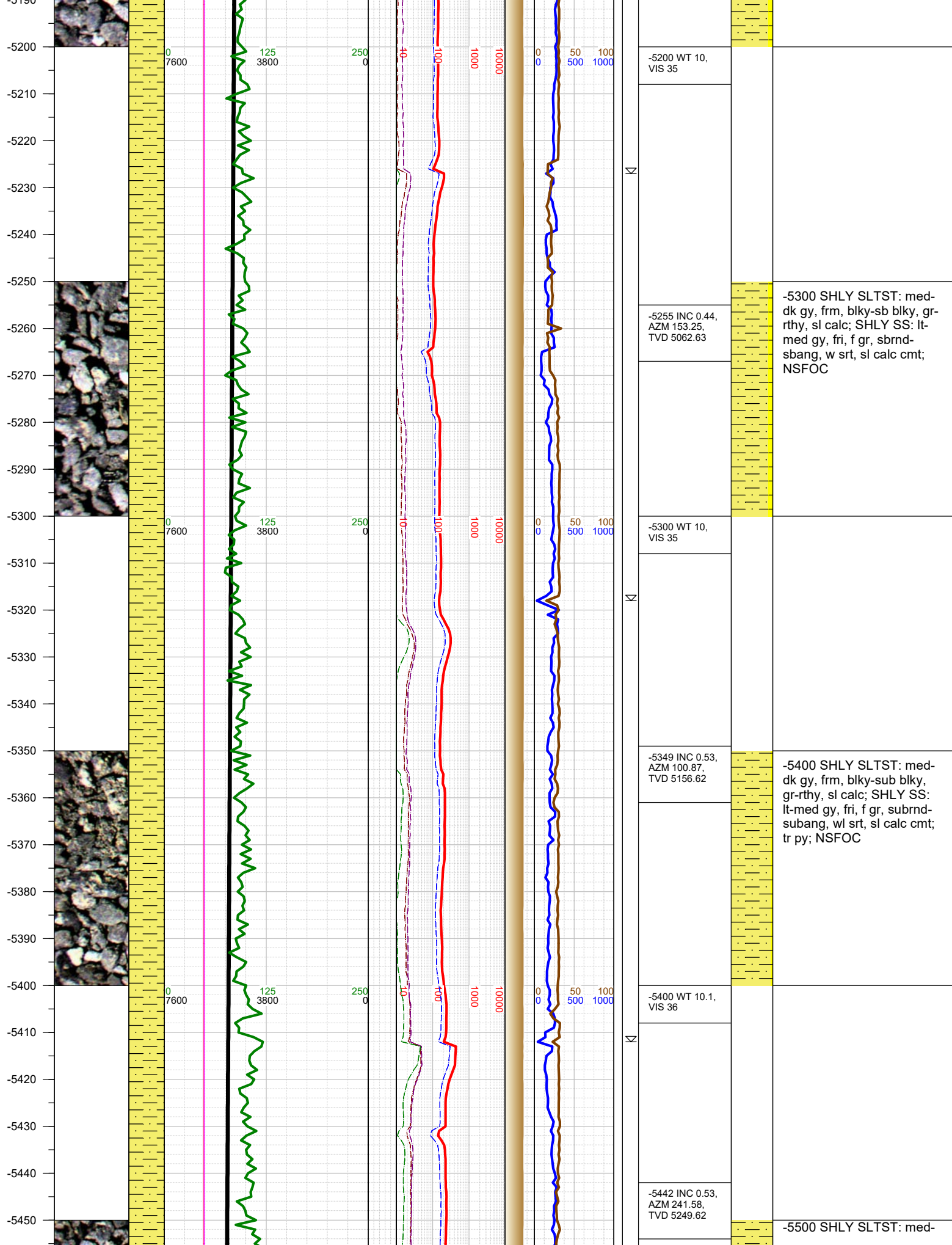
-4500 SHLY SLTST: med-
dk gy, frm, blk-y-sb blk-y, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SS: wh, mlky, lt gy, lt brn,
s&p, sbrnd-sbang, f gr, w
srt, w cmt, calc cmt, tr pyr;
NSFOC

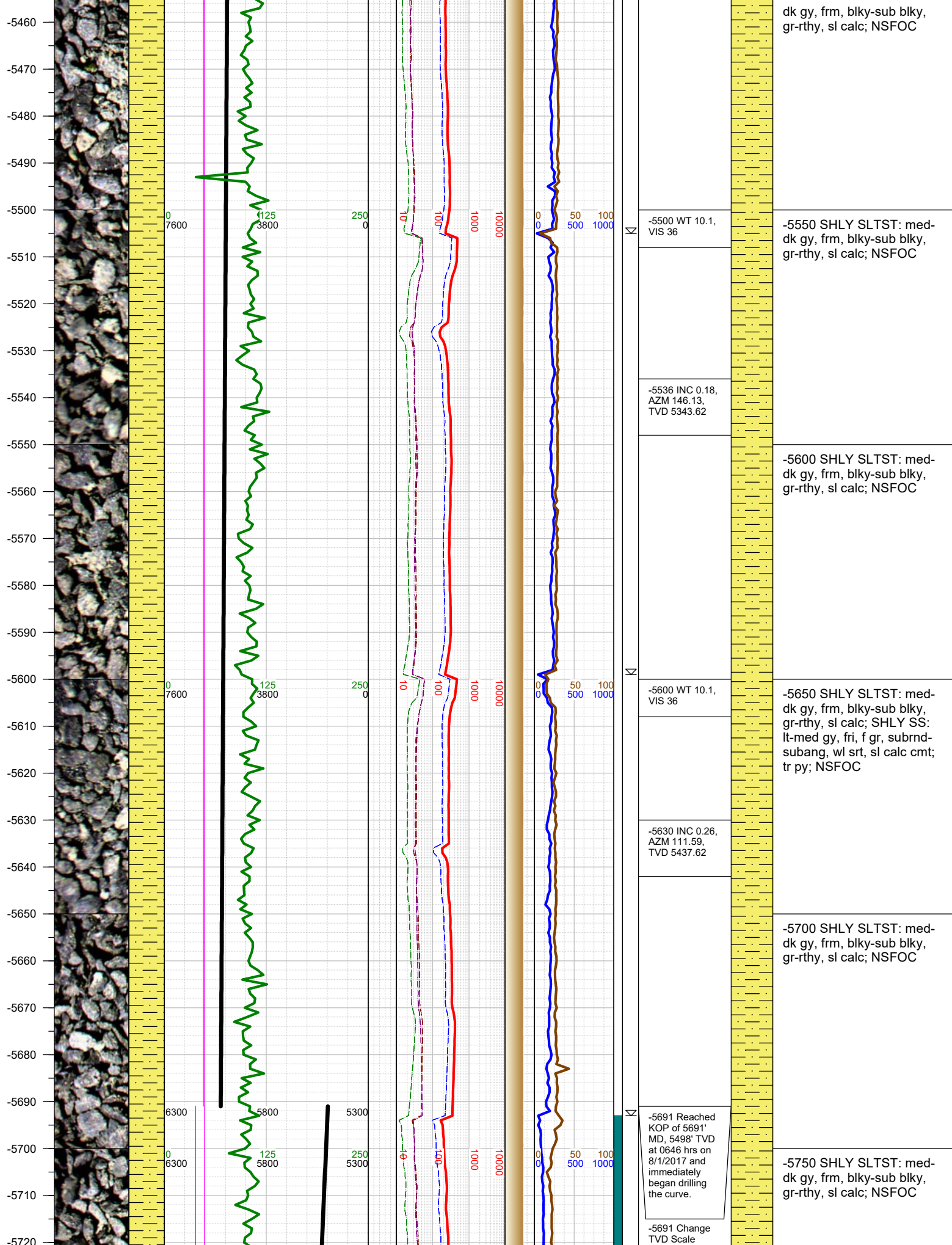
-4600 SHLY SLTST: med-
dk gy, frm, blk-y-sb blk-y, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SS: wh, mlky, lt gy, lt brn,
s&p, sbrnd-sbang, f gr, w
srt, w cmt, calc cmt, tr pyr;
NSFOC

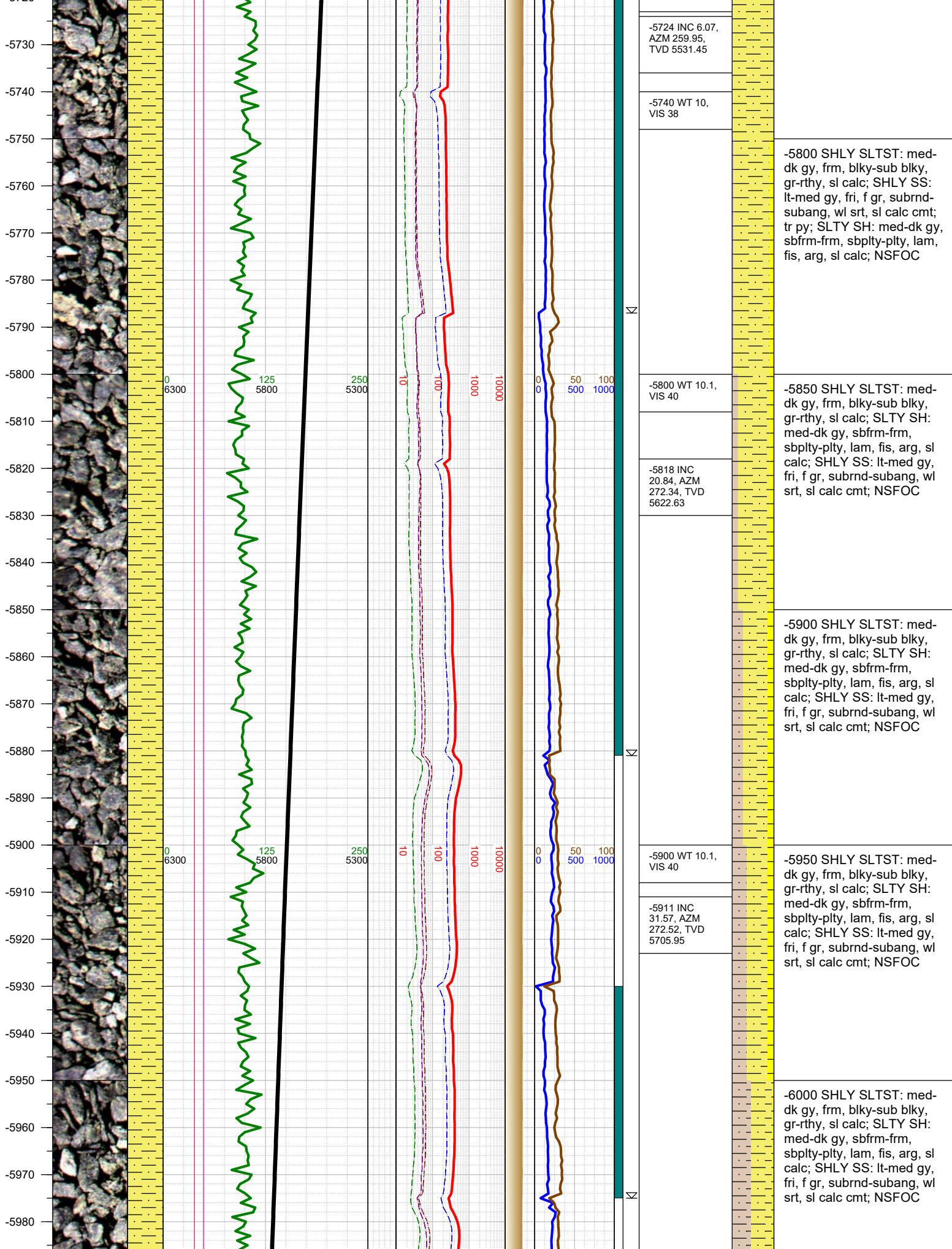
-4700 SHLY SLTST: med-
dk gy, frm, blk-y-sb blk-y, gr-
rthy, sl calc; SHLY SS: lt-

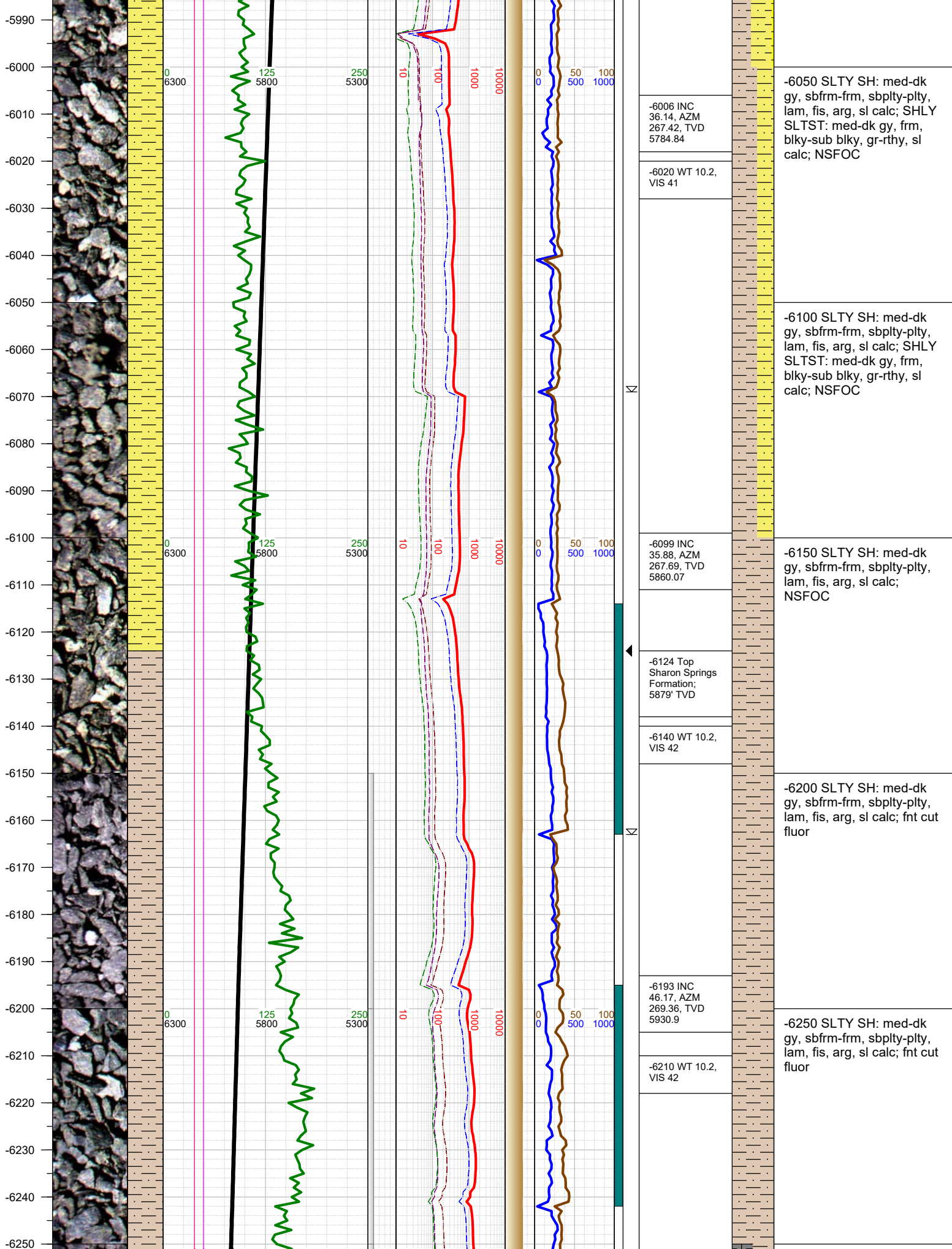












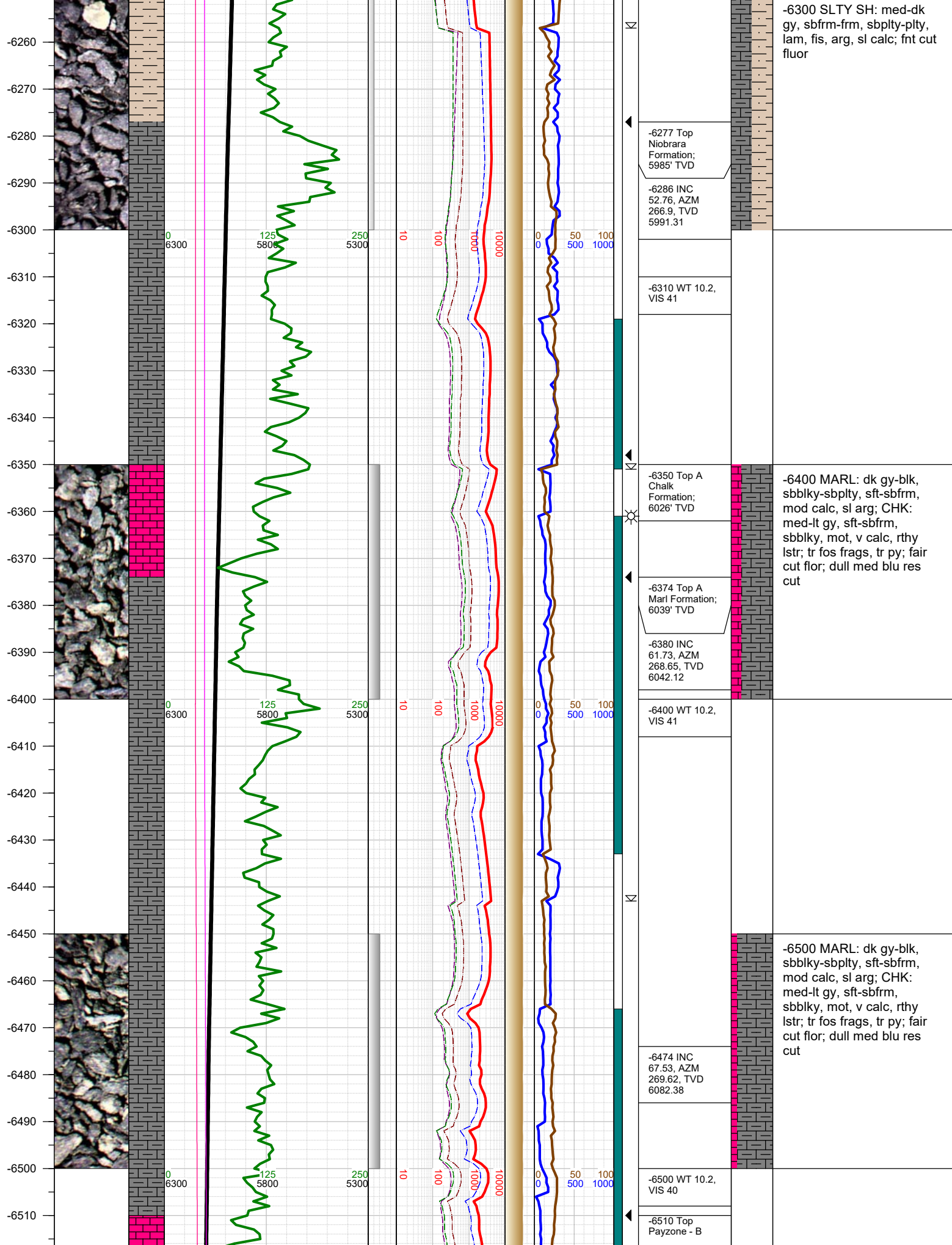
-6050 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; SHLY SLTST: med-dk gy, frm, blk-sub blk, gr-rthy, sl calc; NSFOC

-6100 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; SHLY SLTST: med-dk gy, frm, blk-sub blk, gr-rthy, sl calc; NSFOC

-6150 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; NSFOC

-6200 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; frnt cut fluor

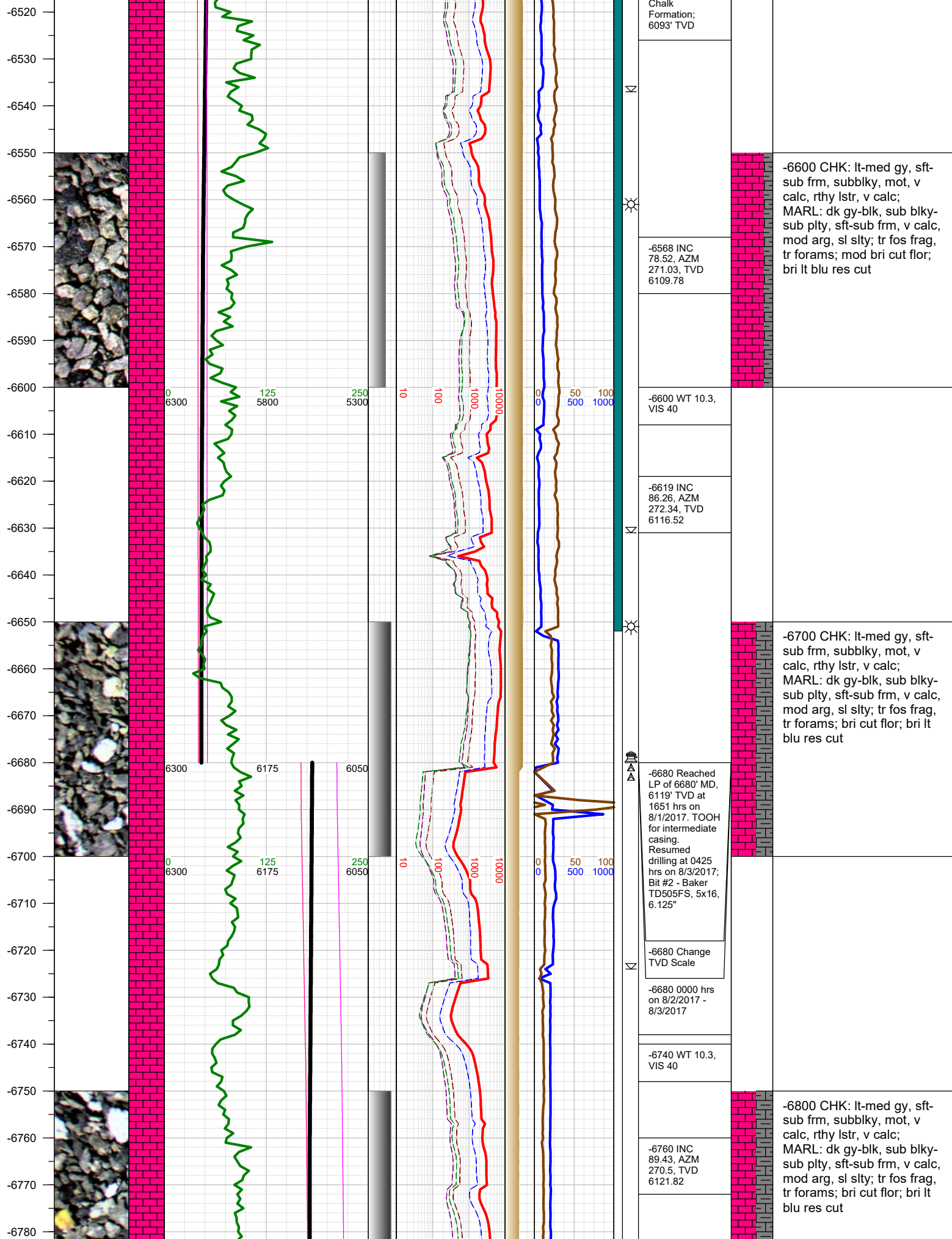
-6250 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; frnt cut fluor

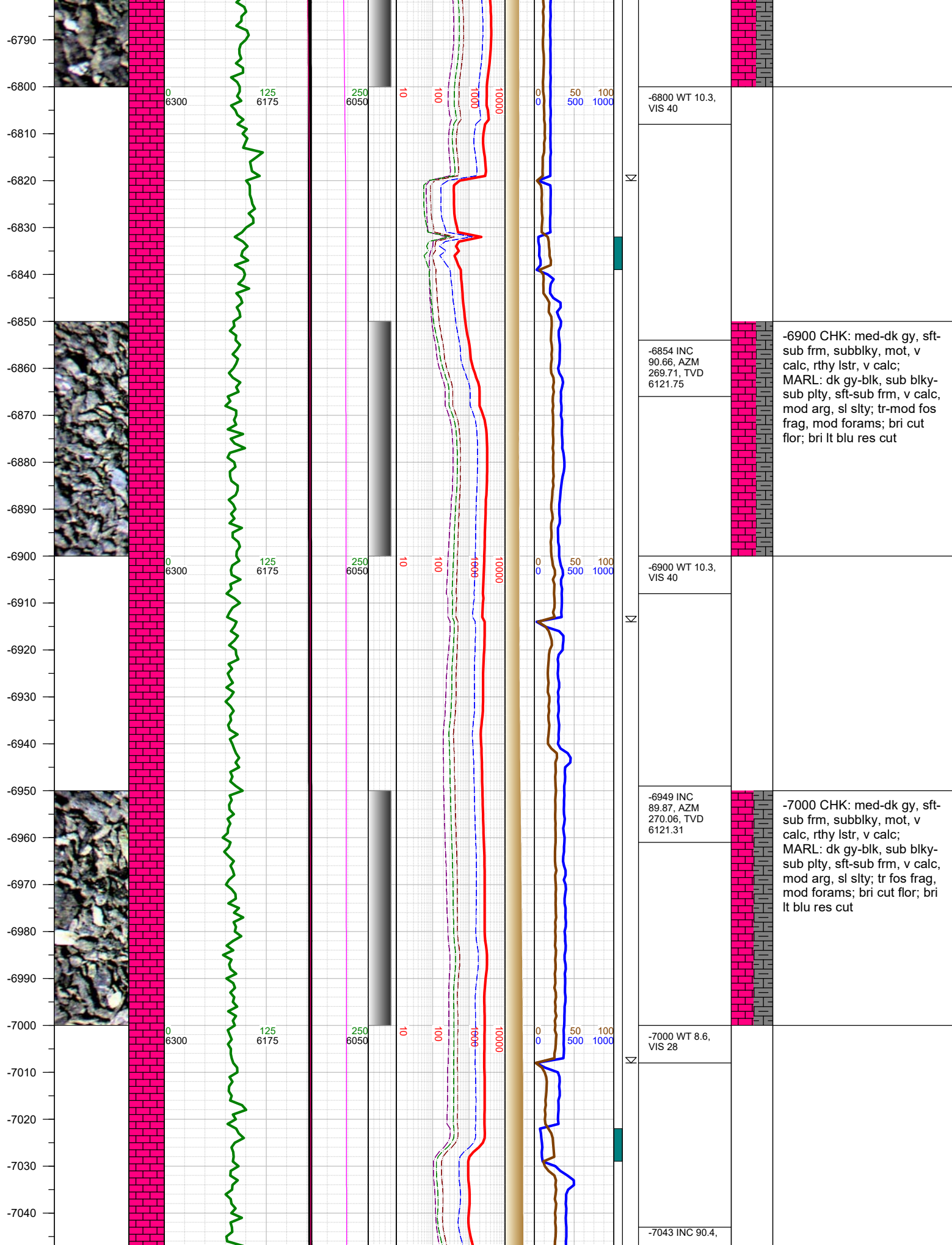


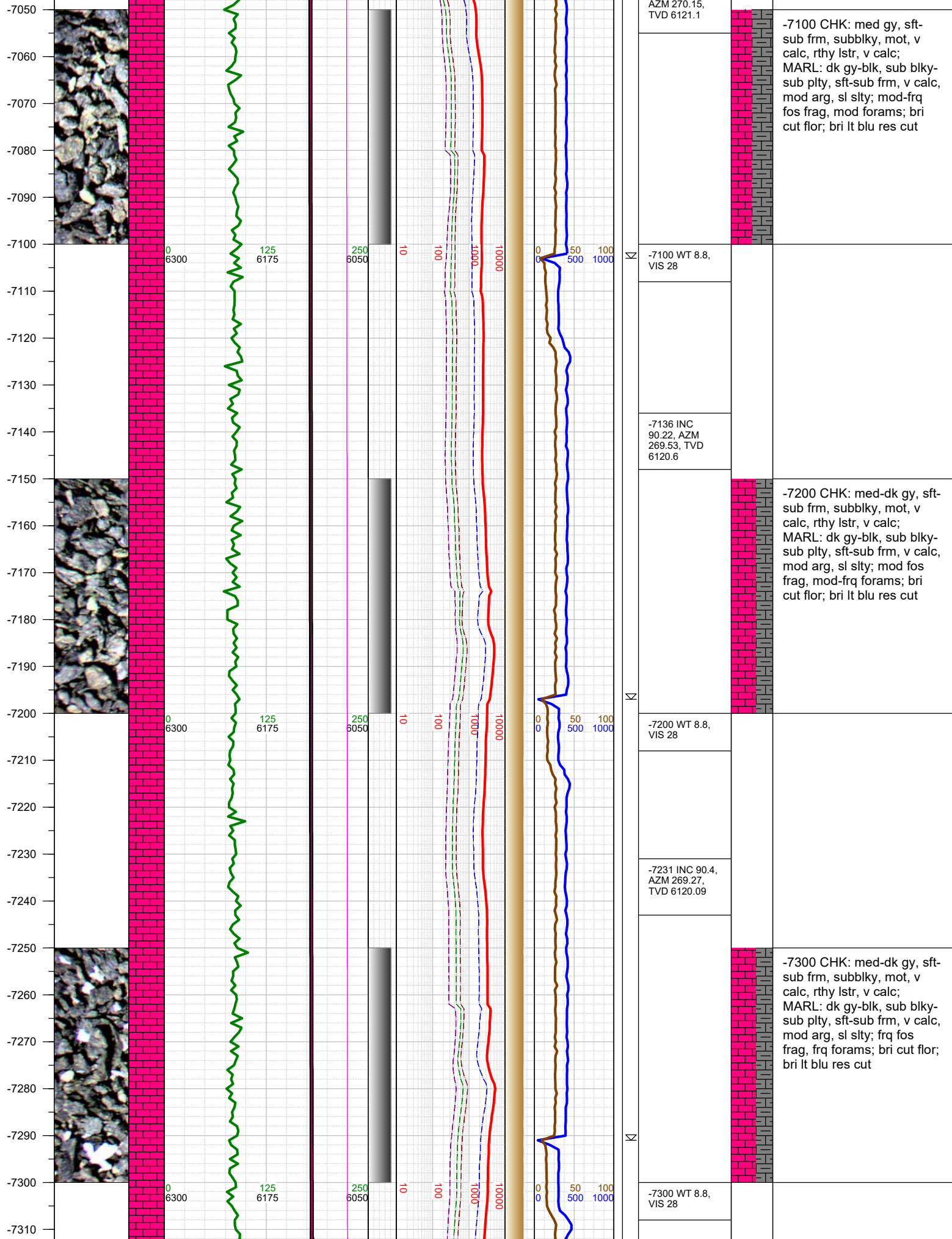
-6300 SLTY SH: med-dk gy, sbfrm-frm, sbply-pty, lam, fis, arg, sl calc; fnt cut fluor

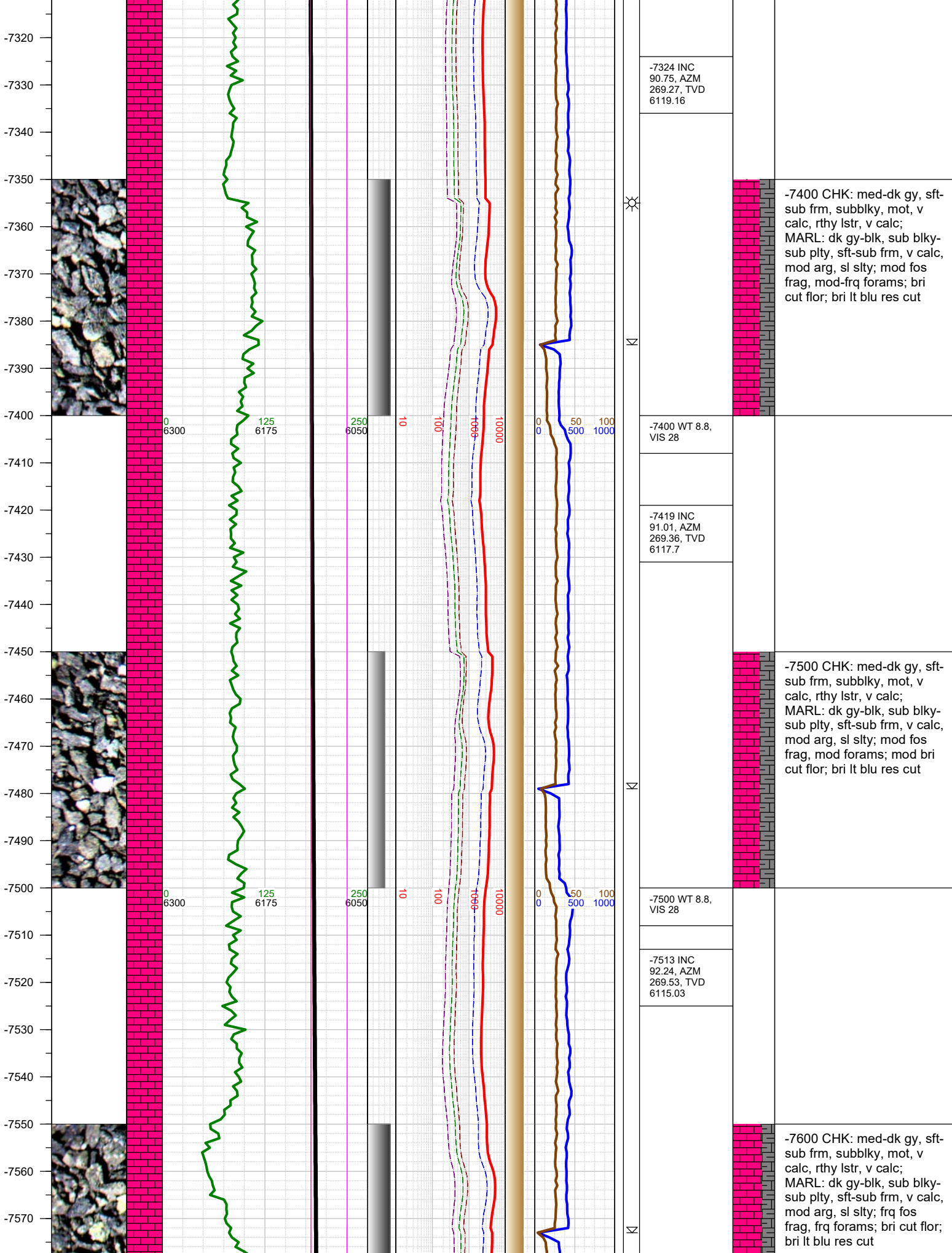
-6400 MARL: dk gy-blk, sbblky-sbply, sft-sbfrm, mod calc, sl arg; CHK: med-lt gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr fos frags, tr py; fair cut flor; dull med blu res cut

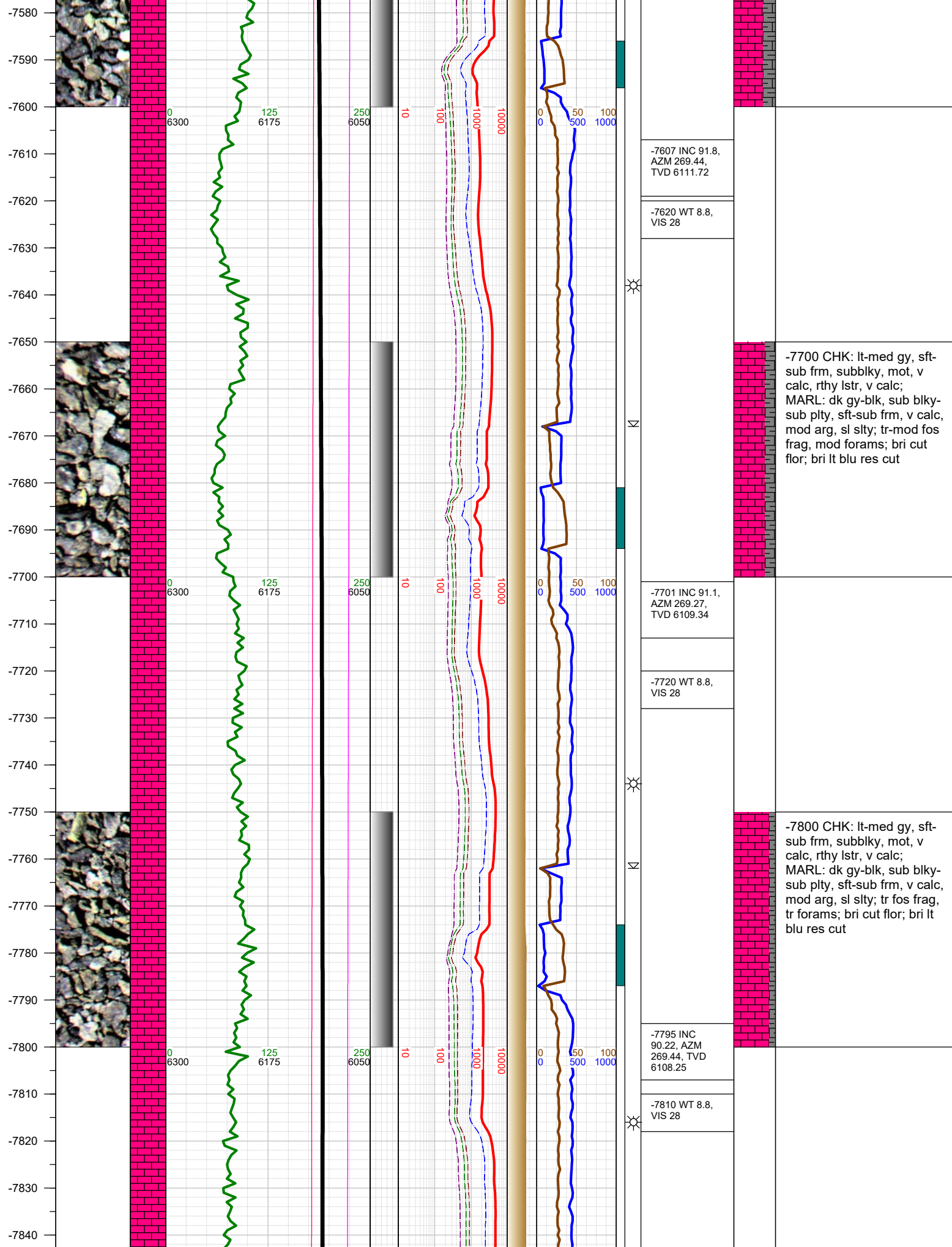
-6500 MARL: dk gy-blk, sbblky-sbply, sft-sbfrm, mod calc, sl arg; CHK: med-lt gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr fos frags, tr py; fair cut flor; dull med blu res cut

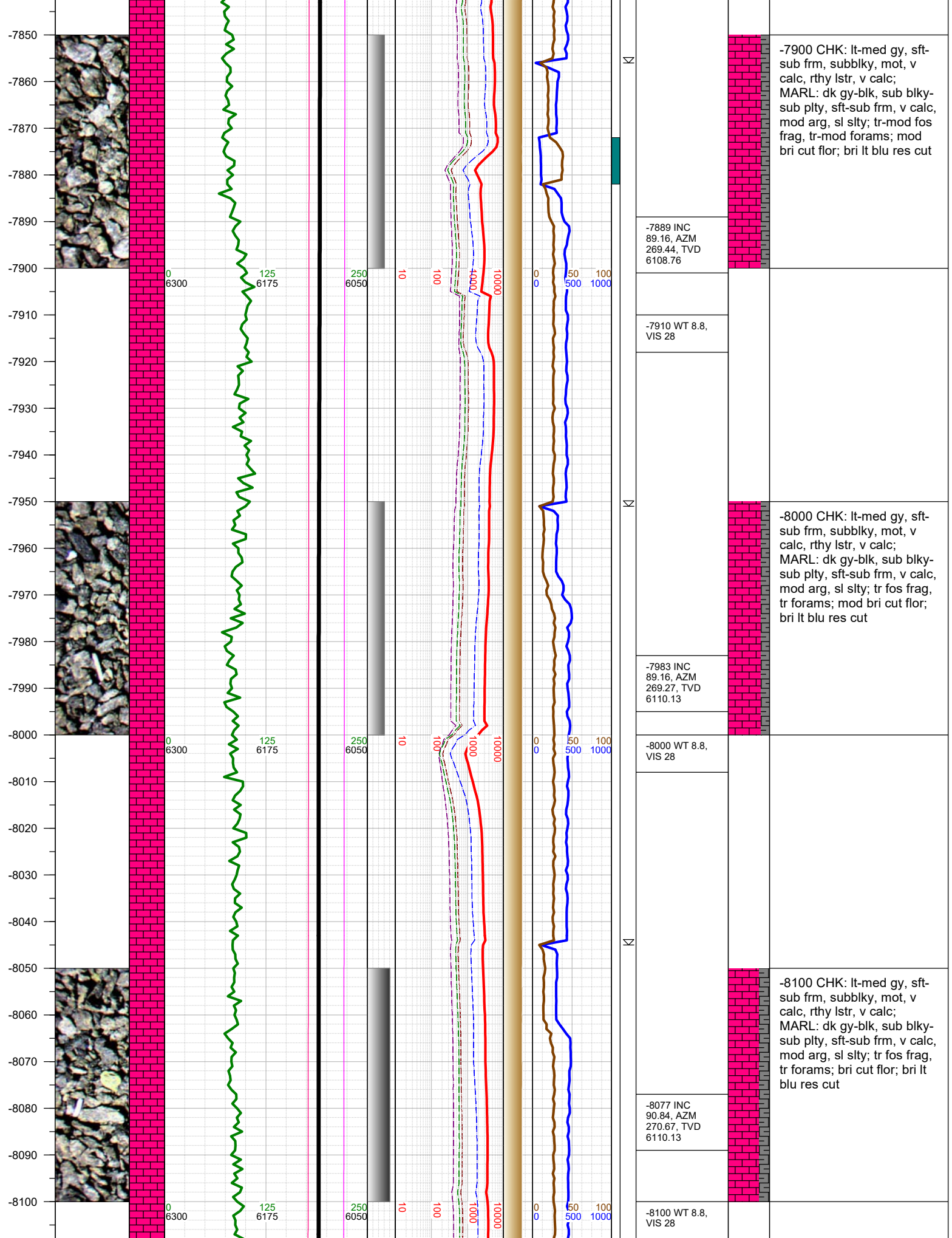


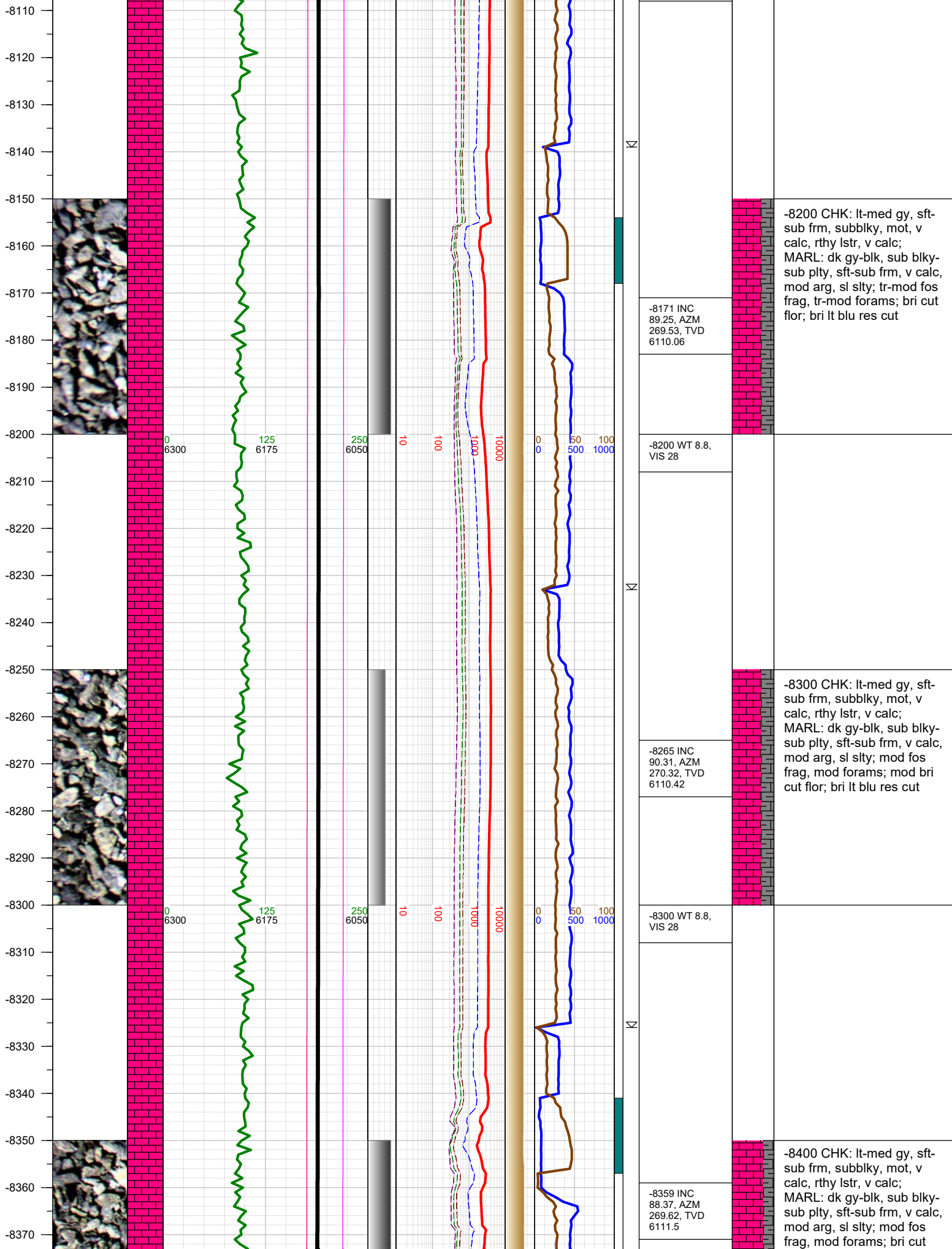


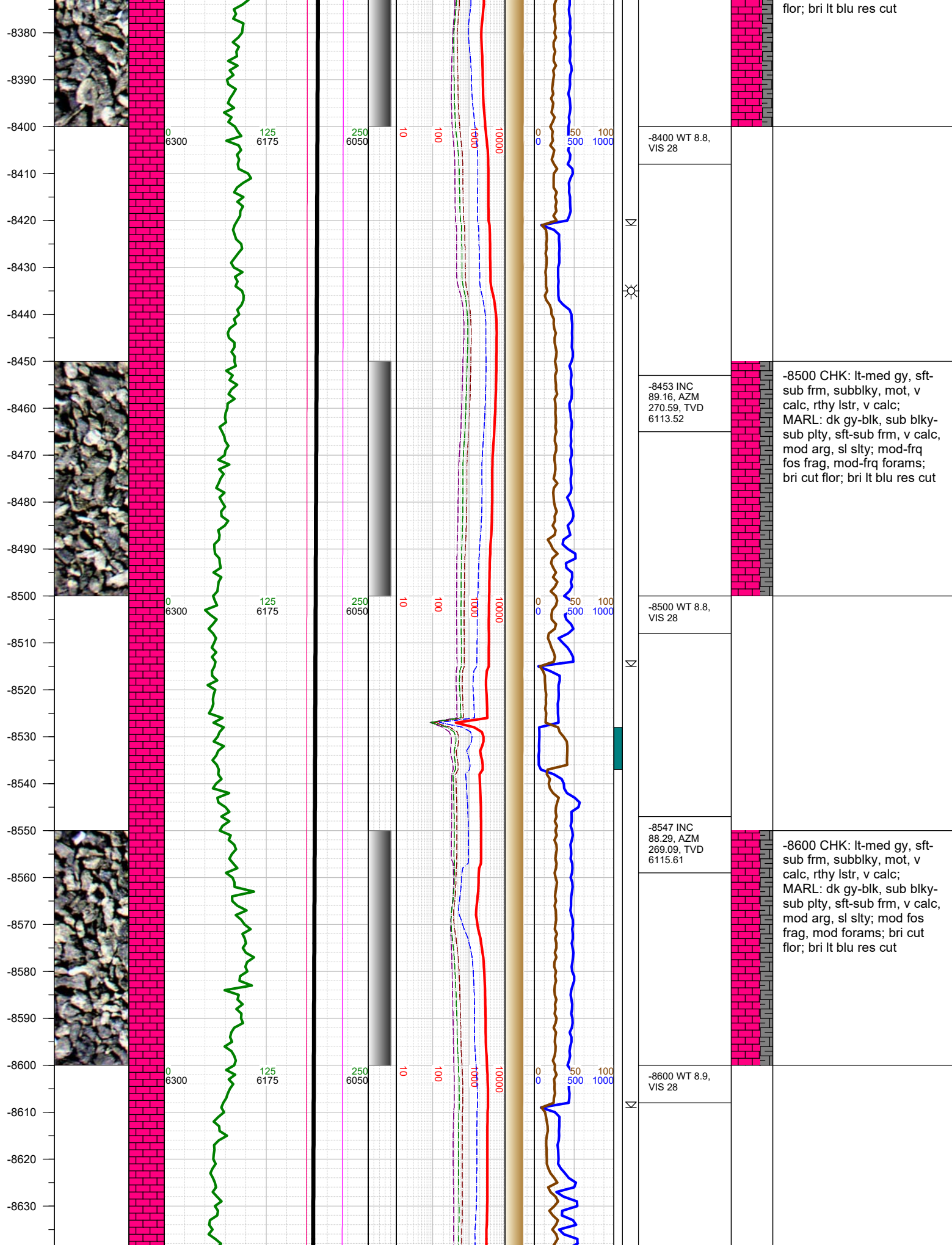


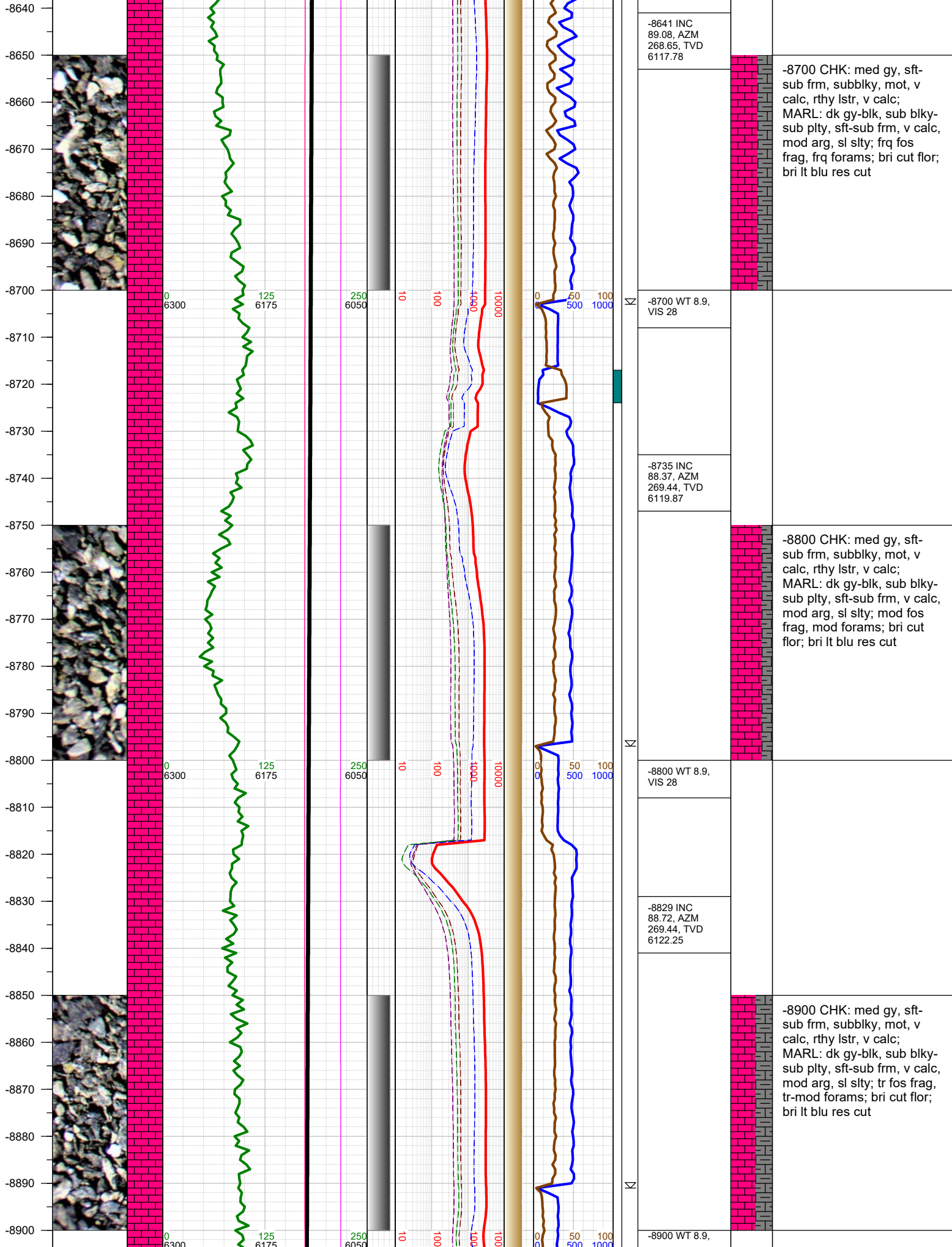


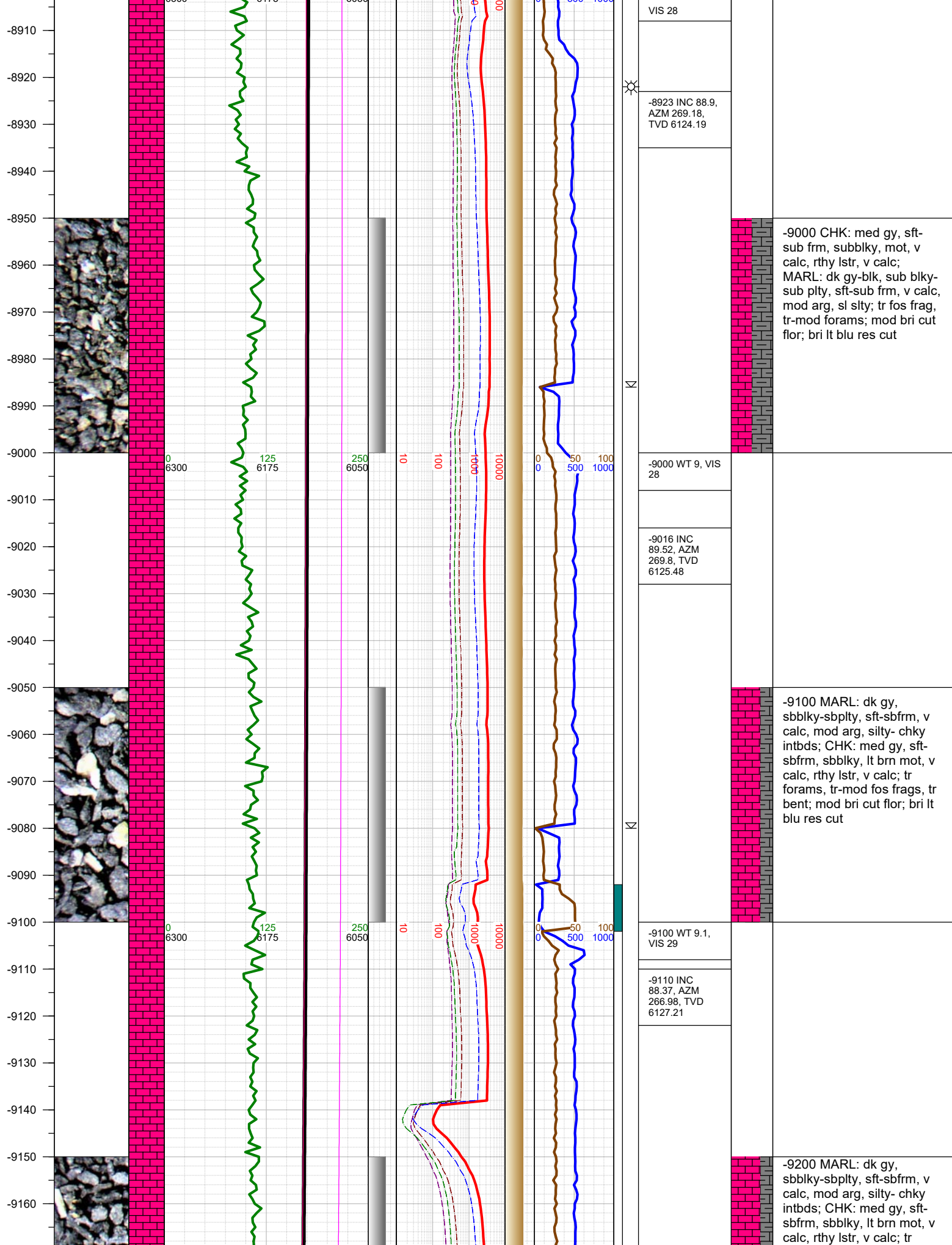


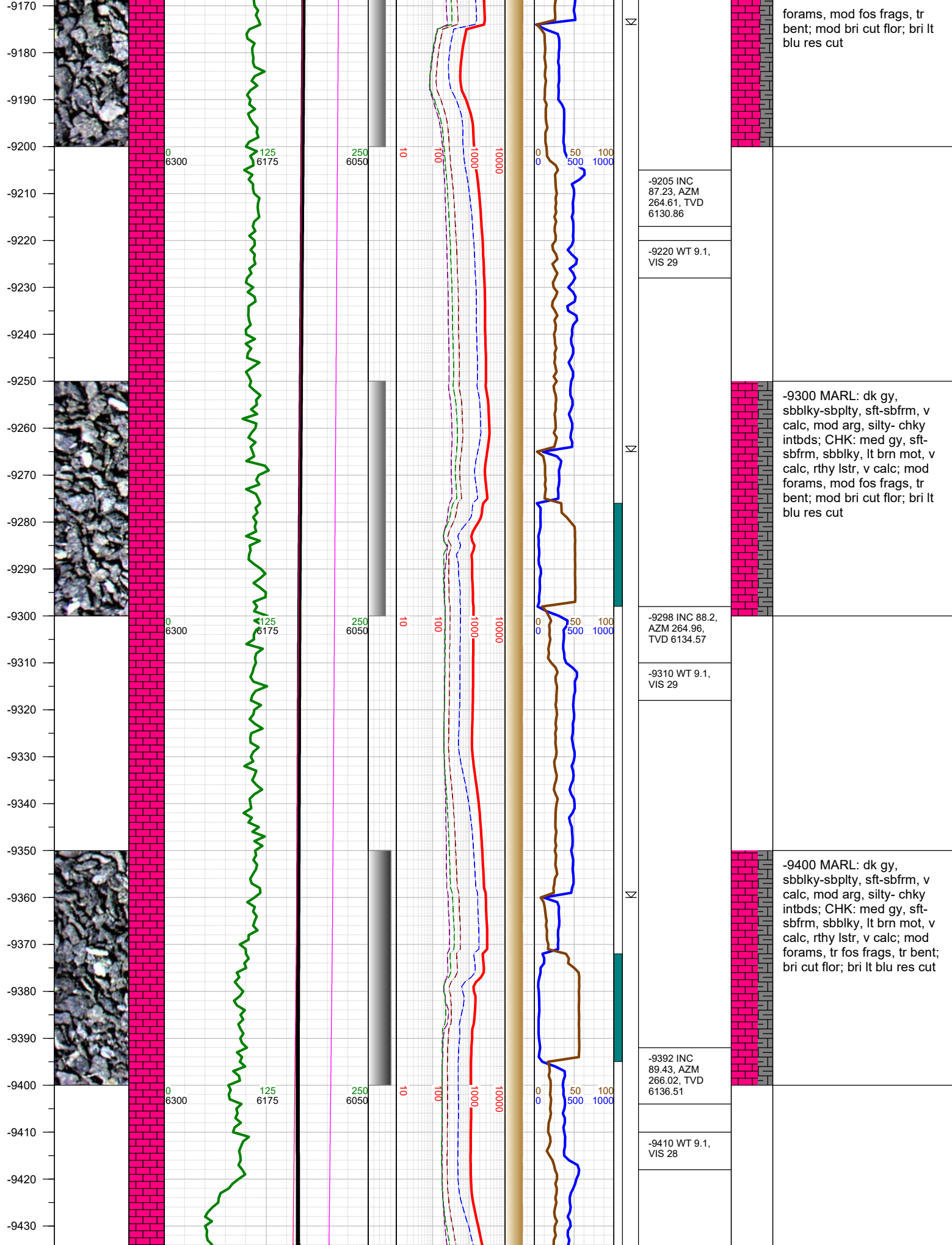


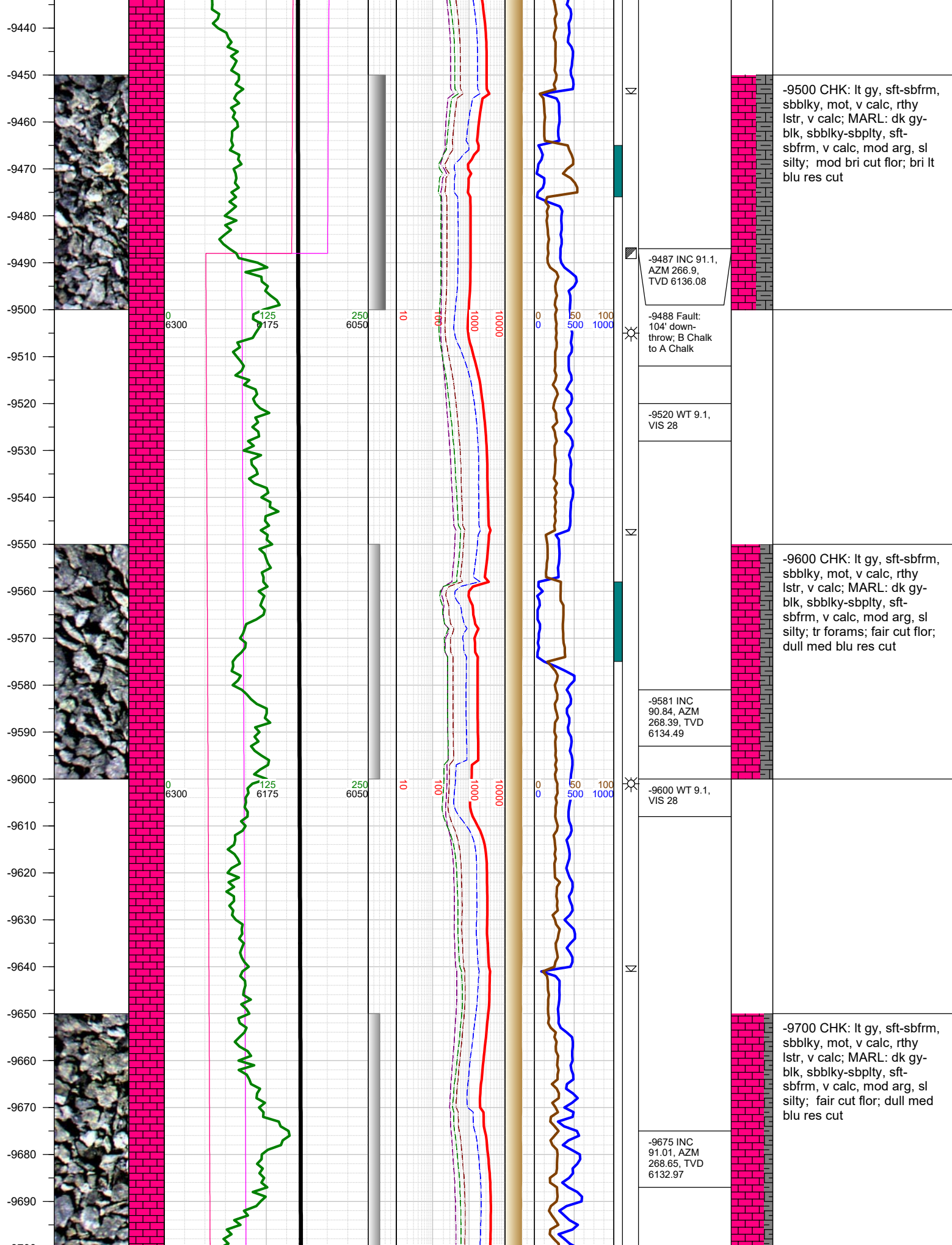


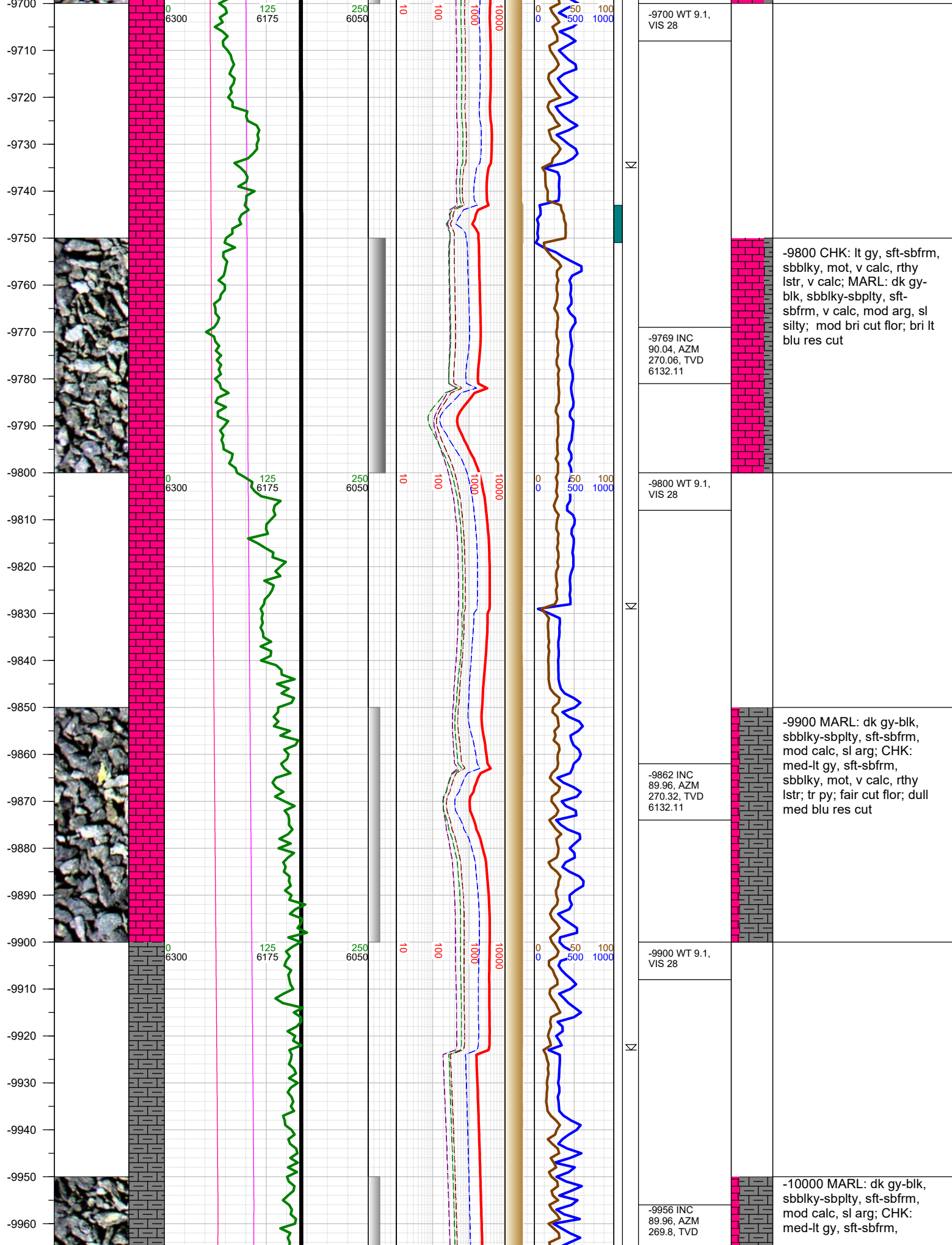


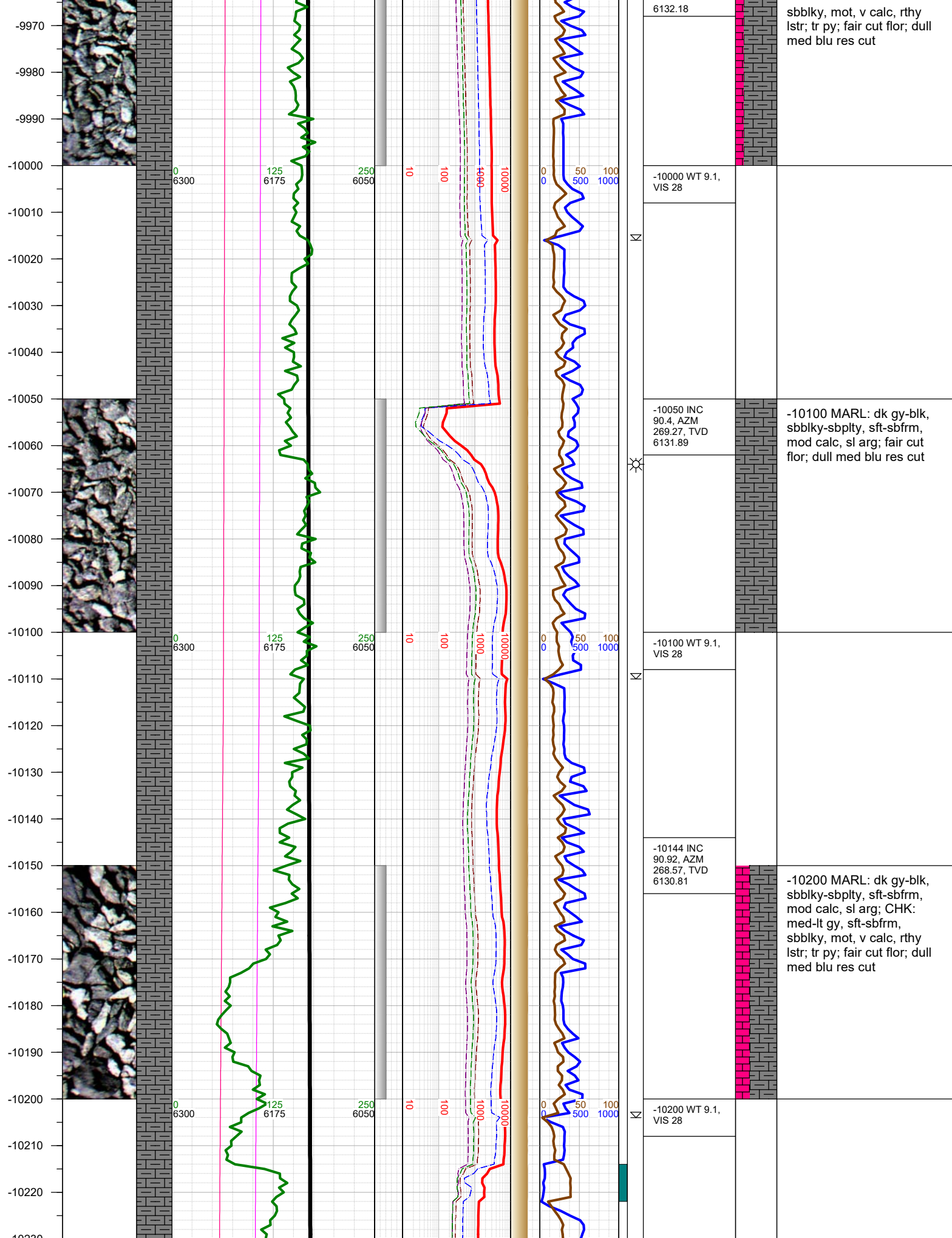


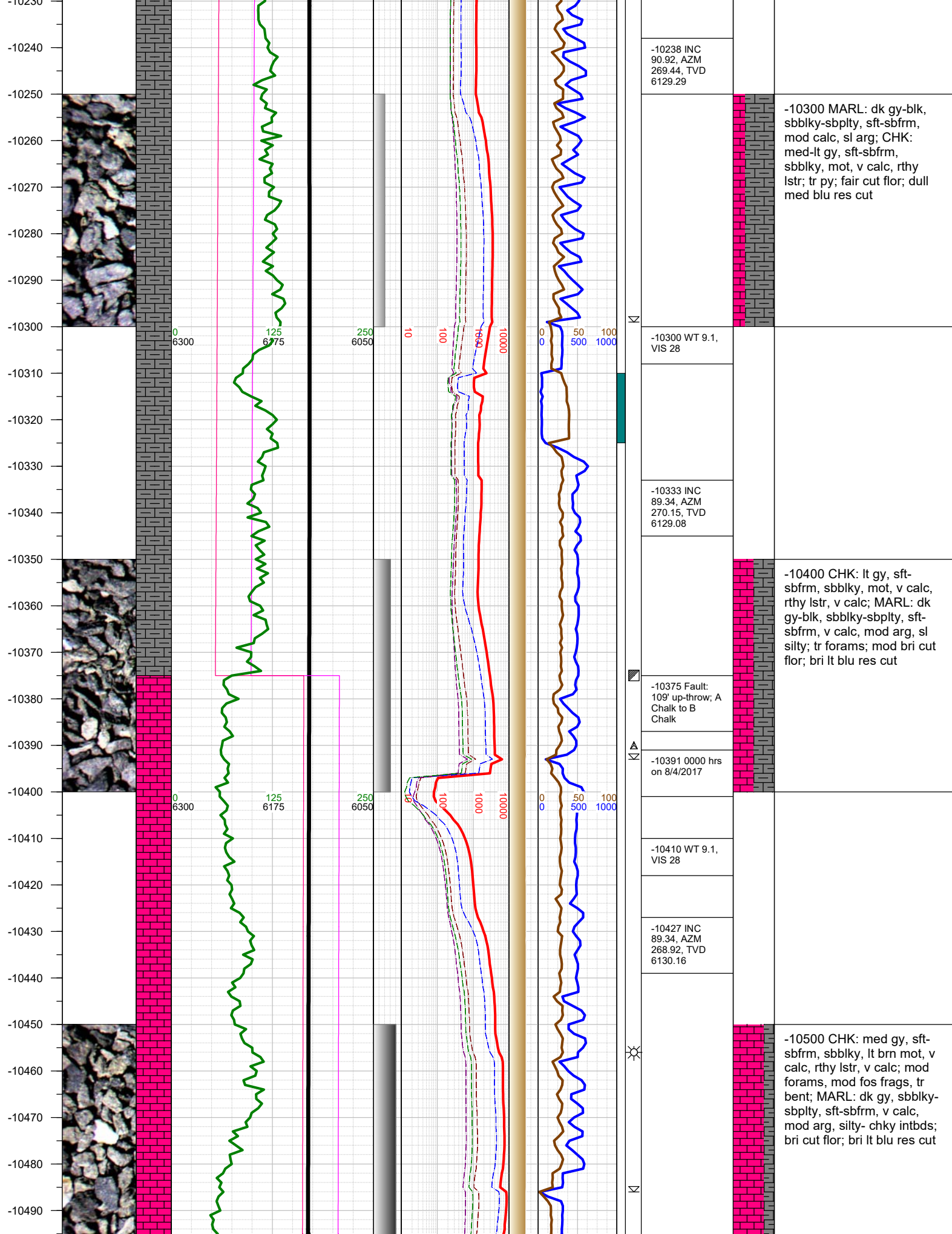


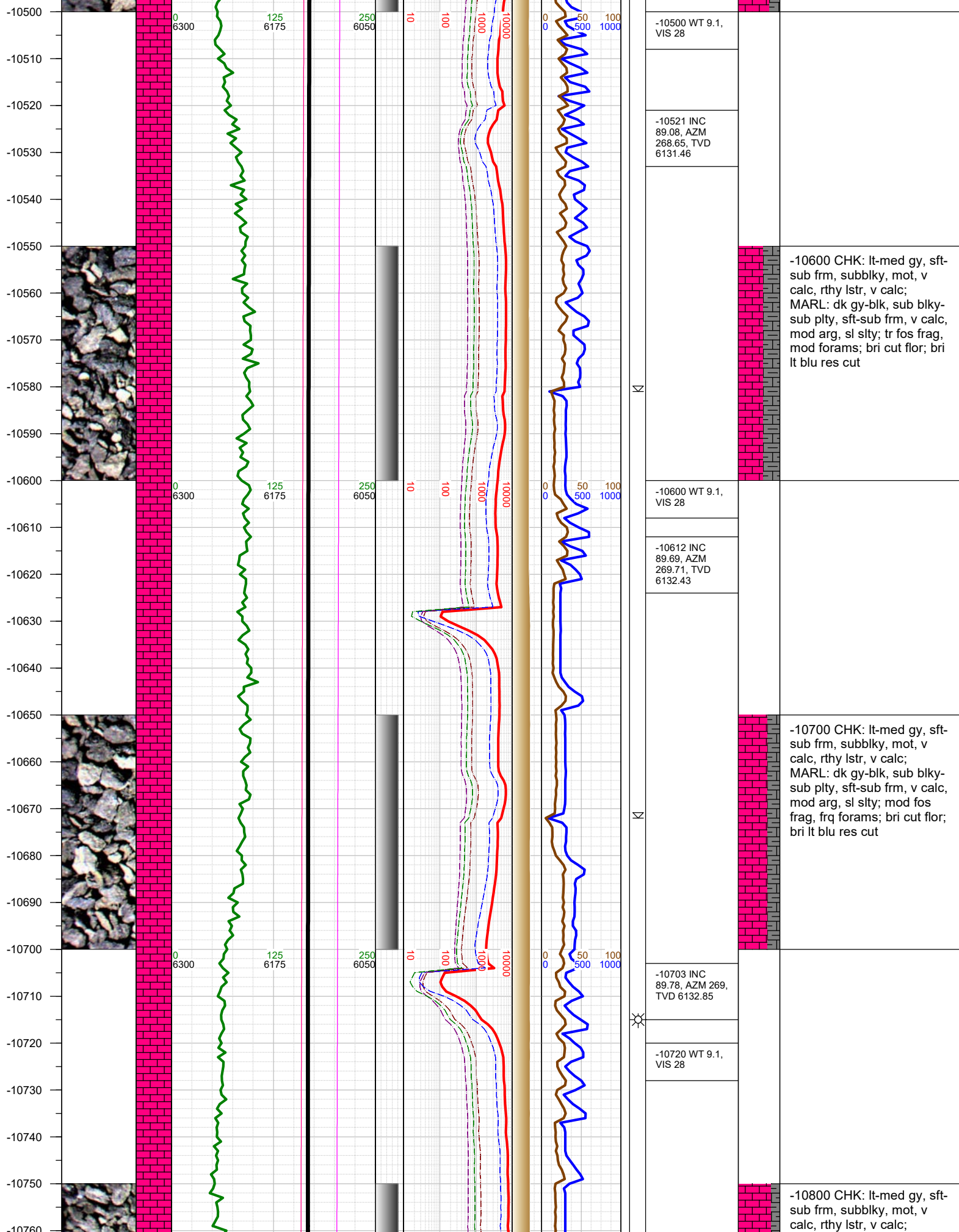








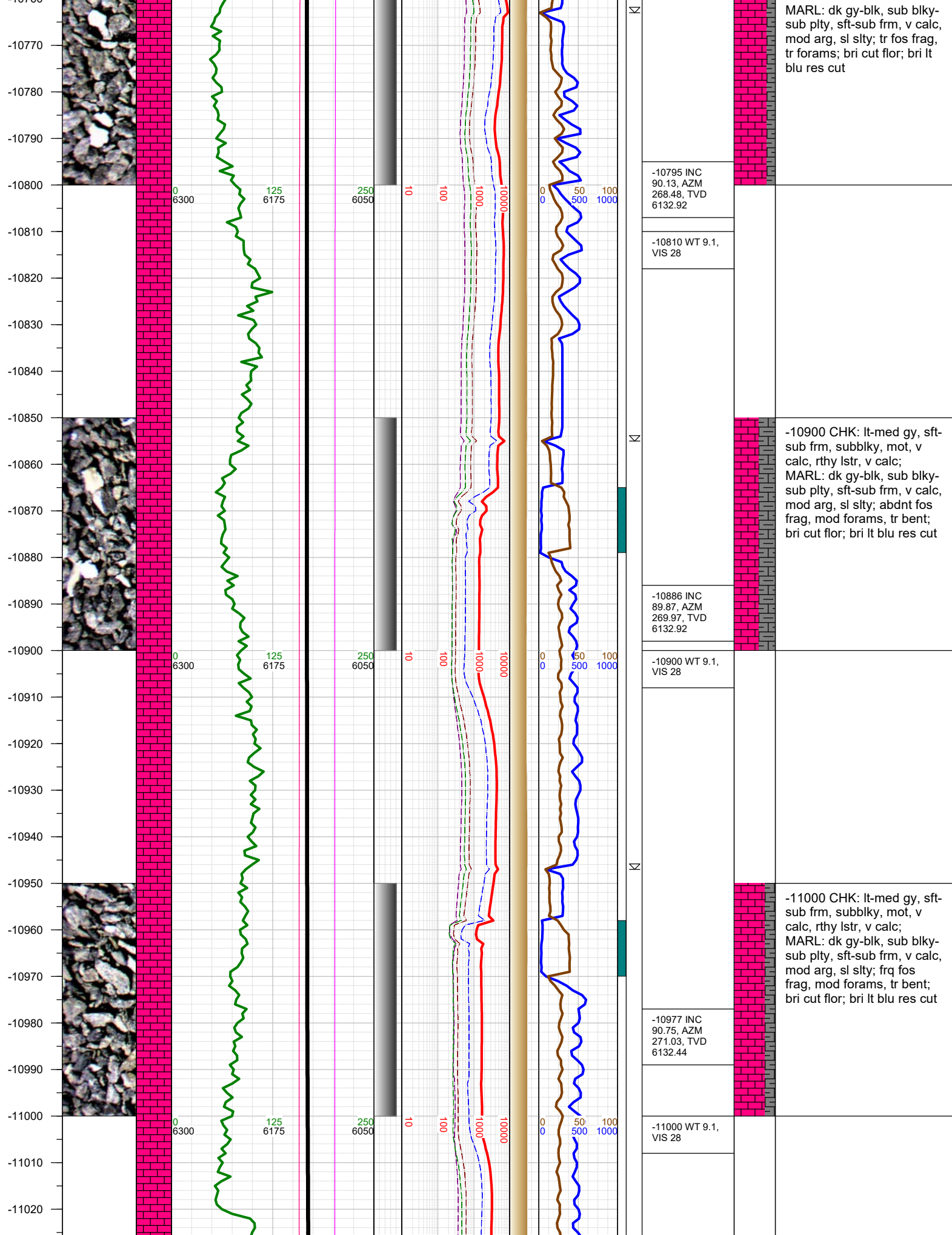


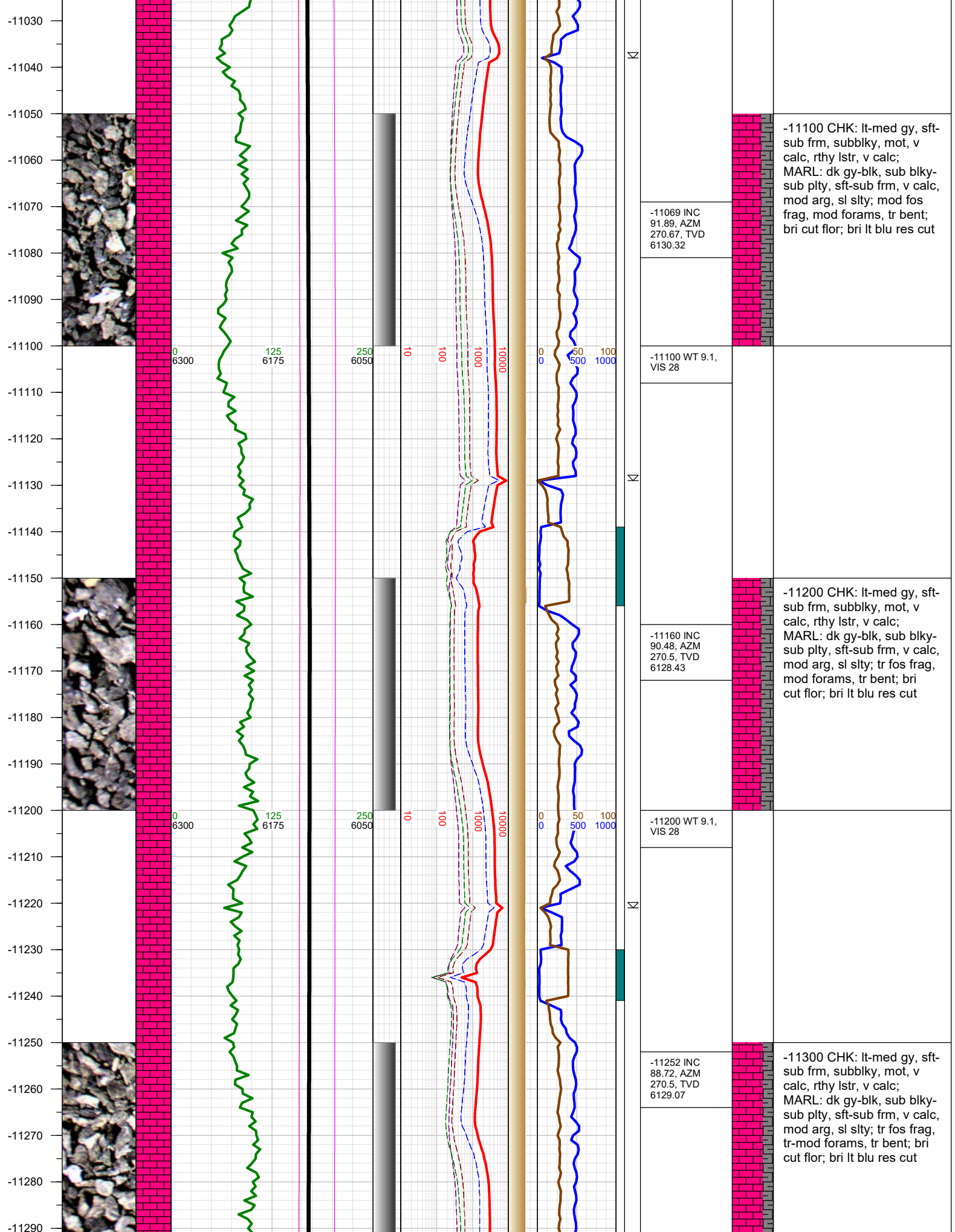


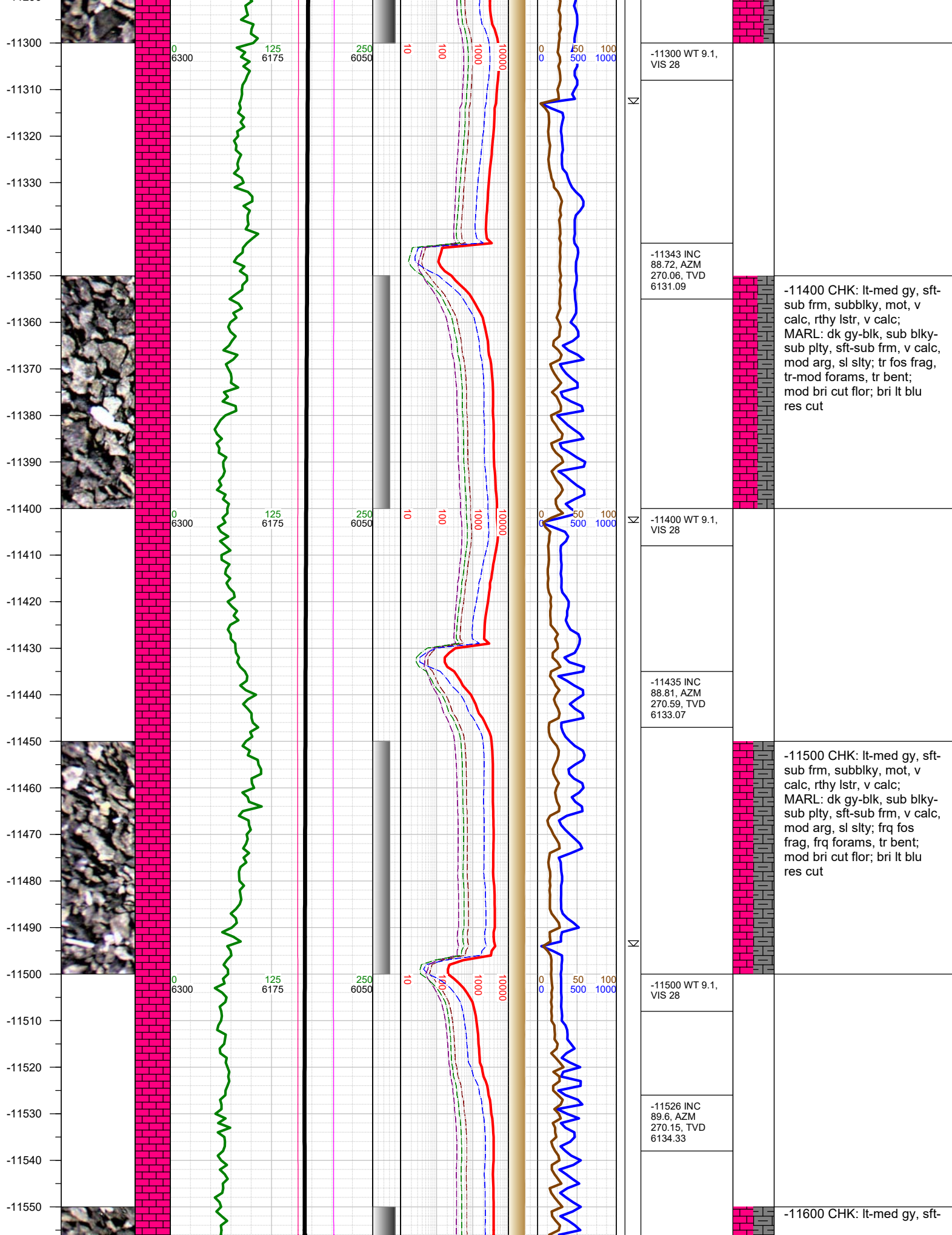
-10600 CHK: lt-med gy, sft-sub frm, subblky, mot, v calc, rthy lstr, v calc; MARL: dk gy-blk, sub blk-sub ply, sft-sub frm, v calc, mod arg, sl slty; tr fos frag, mod forams; bri cut flor; bri lt blu res cut

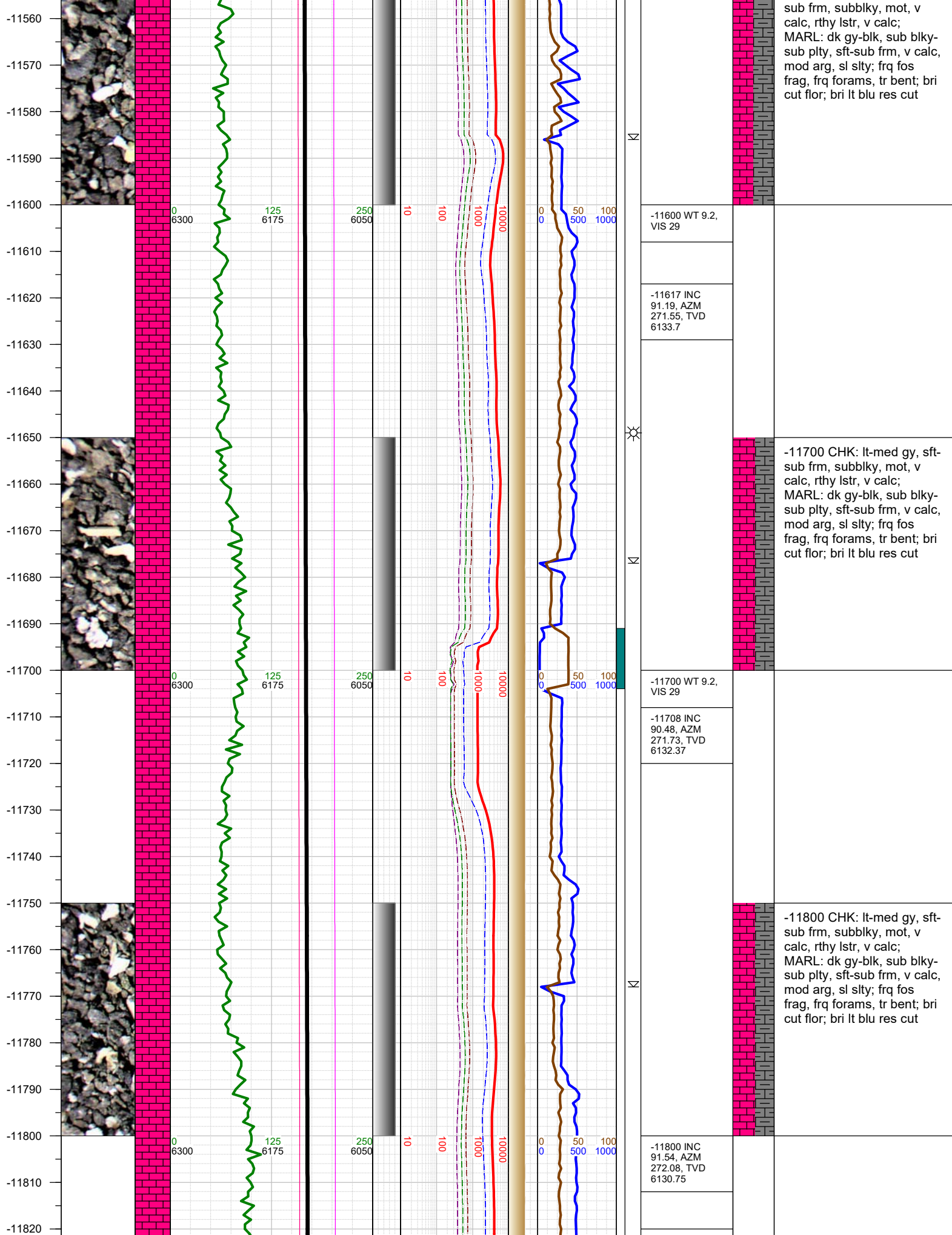
-10700 CHK: lt-med gy, sft-sub frm, subblky, mot, v calc, rthy lstr, v calc; MARL: dk gy-blk, sub blk-sub ply, sft-sub frm, v calc, mod arg, sl slty; mod fos frag, frq forams; bri cut flor; bri lt blu res cut

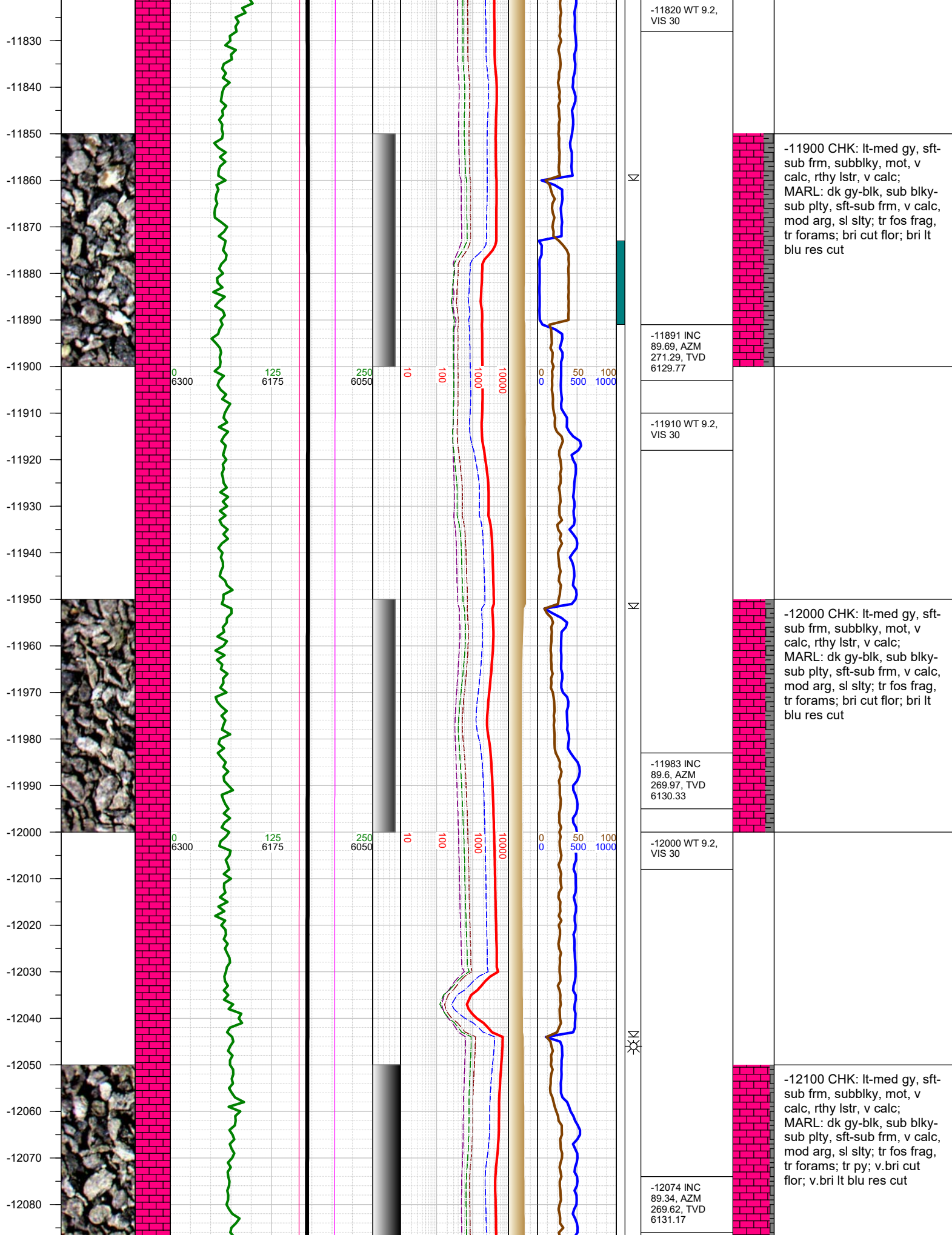
-10800 CHK: lt-med gy, sft-sub frm, subblky, mot, v calc, rthy lstr, v calc;











-11820 WT 9.2,
VIS 30

-11891 INC
89.69, AZM
271.29, TVD
6129.77

-11910 WT 9.2,
VIS 30

-11983 INC
89.6, AZM
269.97, TVD
6130.33

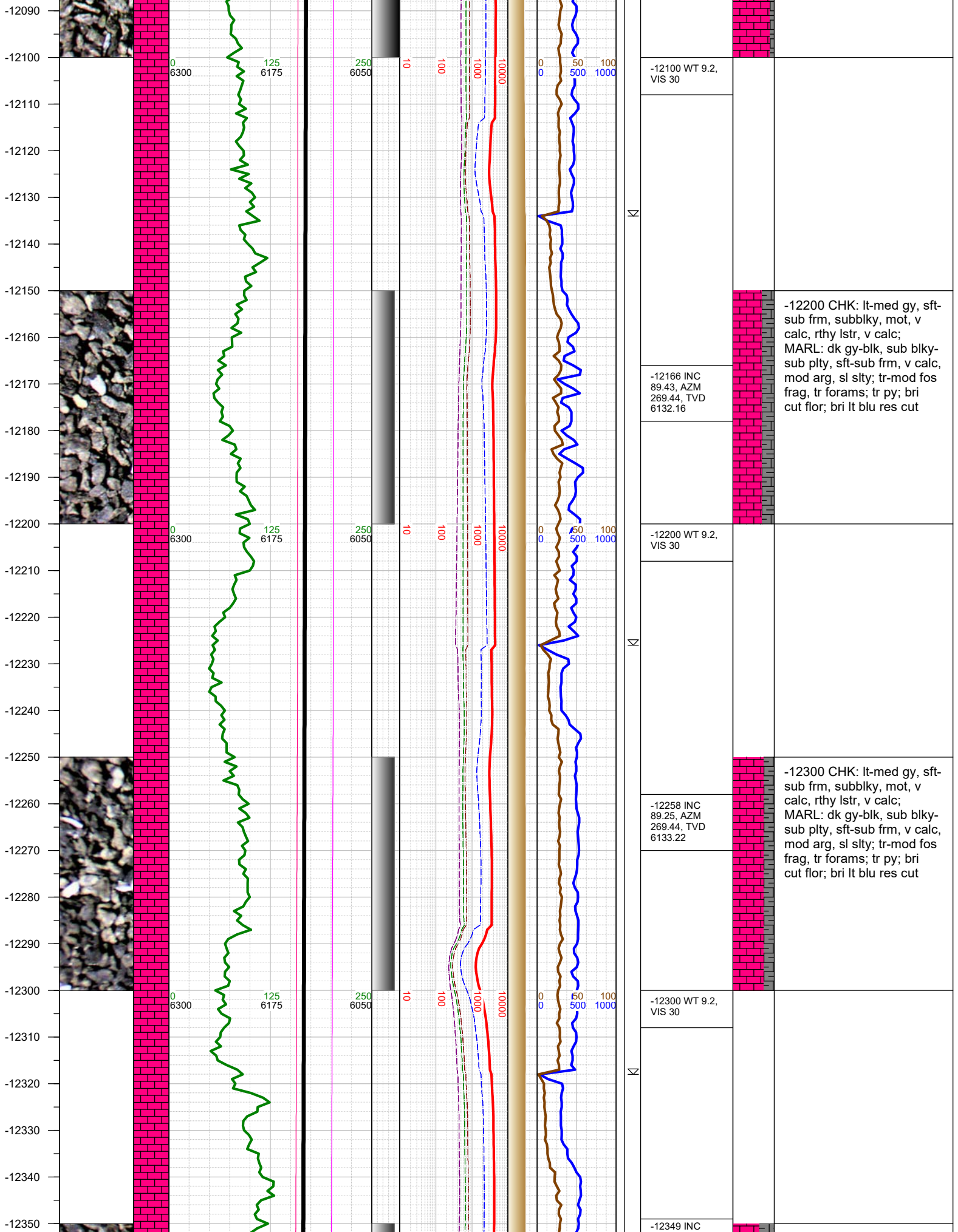
-12000 WT 9.2,
VIS 30

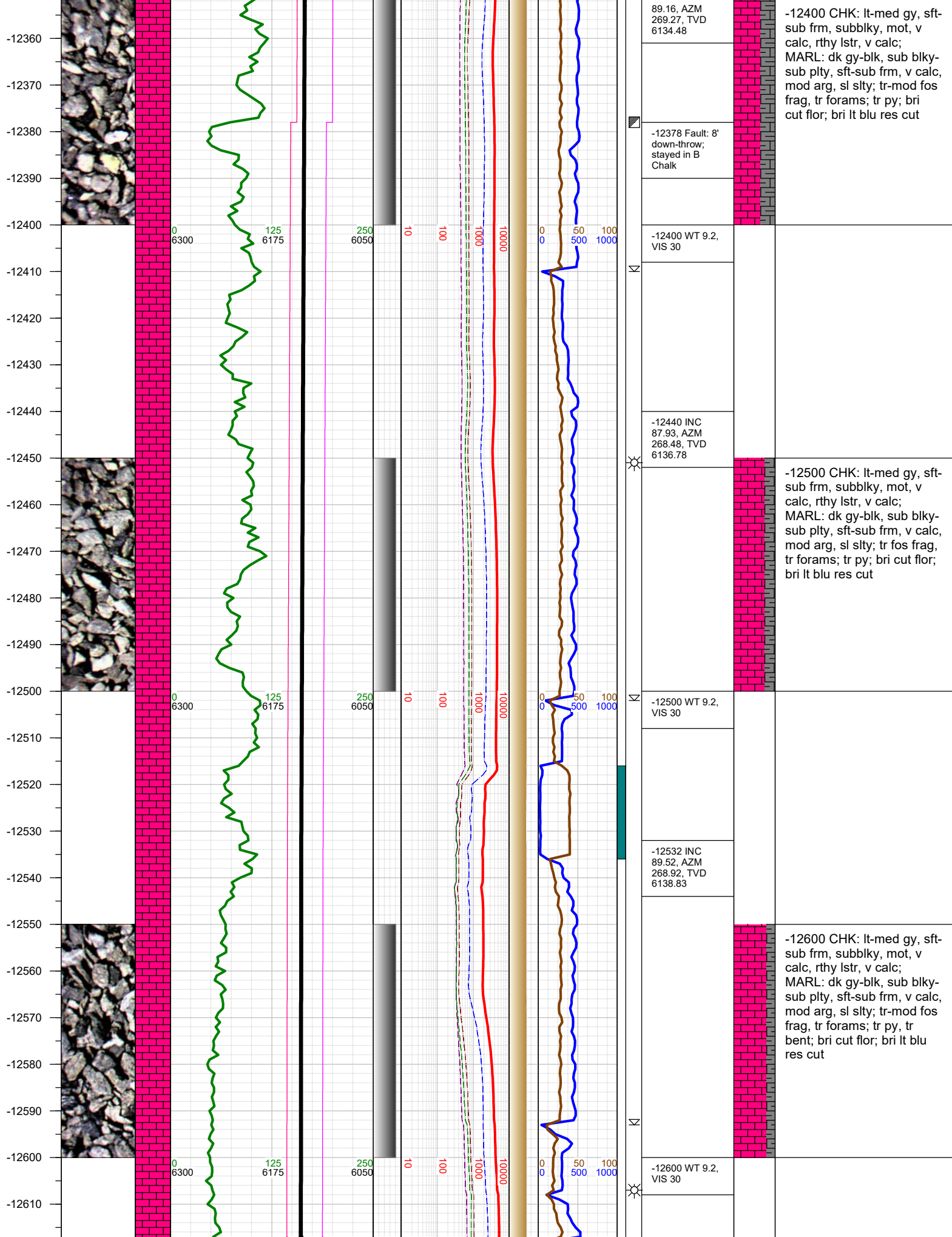
-12074 INC
89.34, AZM
269.62, TVD
6131.17

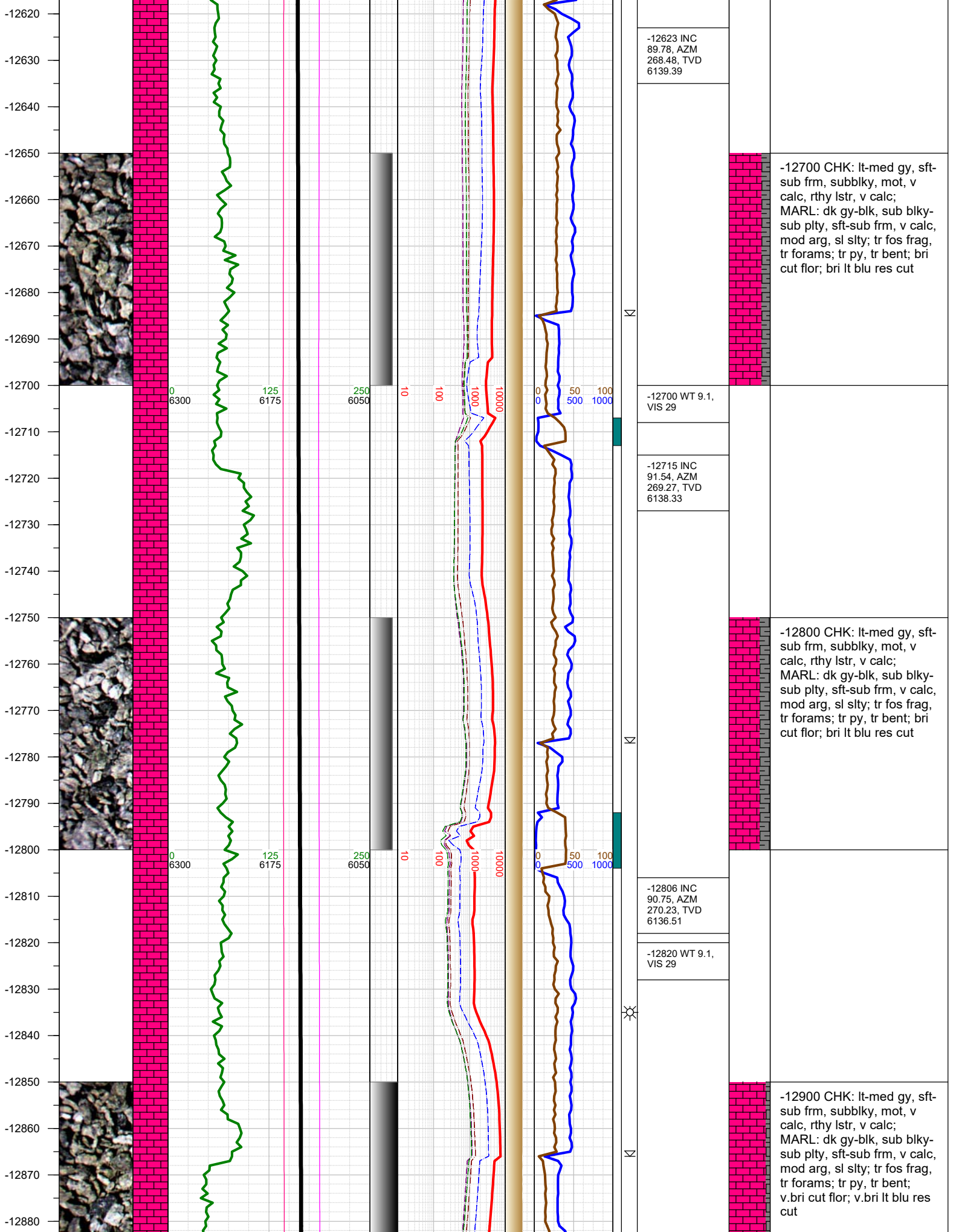
-11900 CHK: lt-med gy, sft-sub frm, subblky, mot, v calc, rthy lstr, v calc; MARL: dk gy-blk, sub blk-sub plty, sft-sub frm, v calc, mod arg, sl slty; tr fos frag, tr forams; bri cut flr; bri lt blu res cut

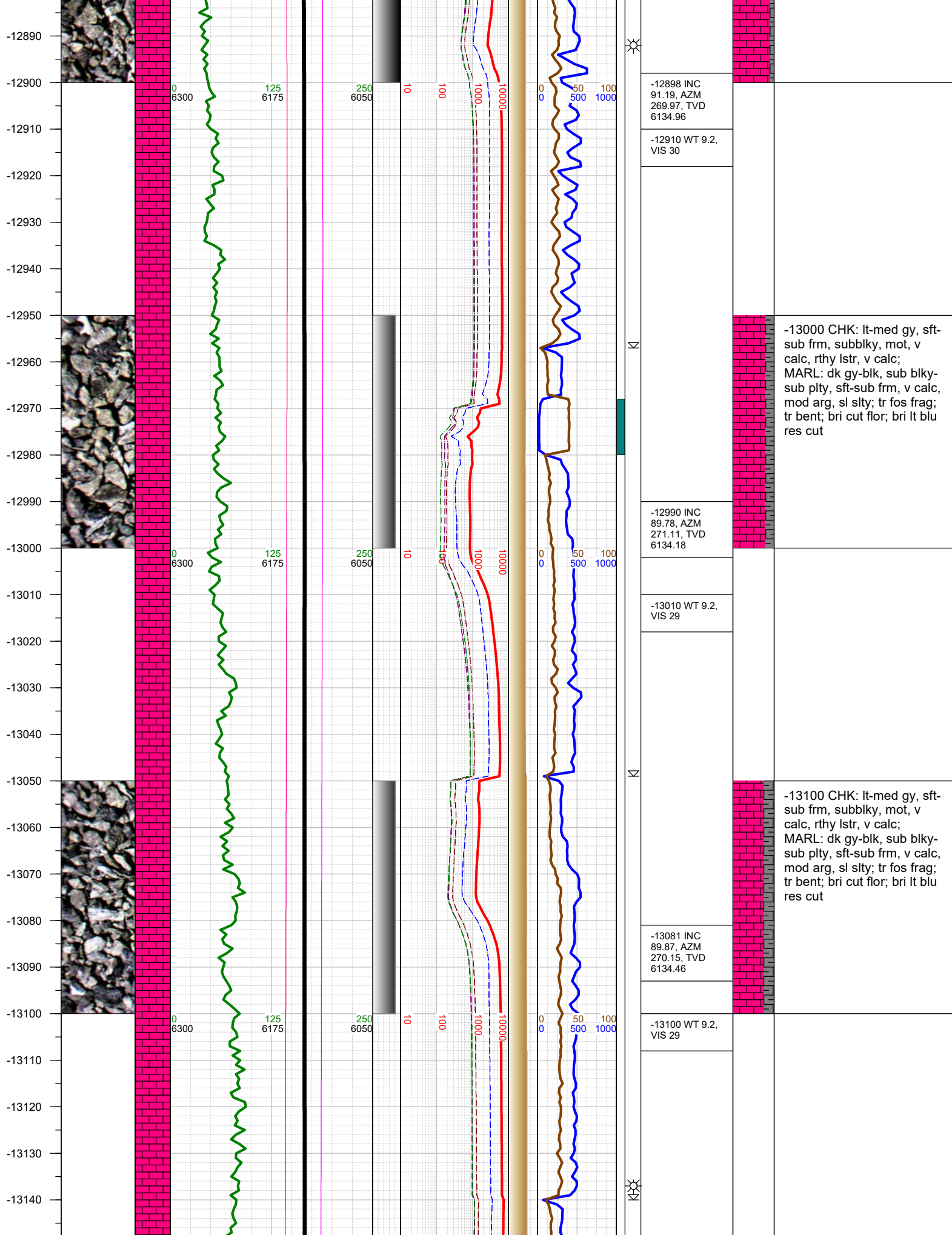
-12000 CHK: lt-med gy, sft-sub frm, subblky, mot, v calc, rthy lstr, v calc; MARL: dk gy-blk, sub blk-sub plty, sft-sub frm, v calc, mod arg, sl slty; tr fos frag, tr forams; bri cut flr; bri lt blu res cut

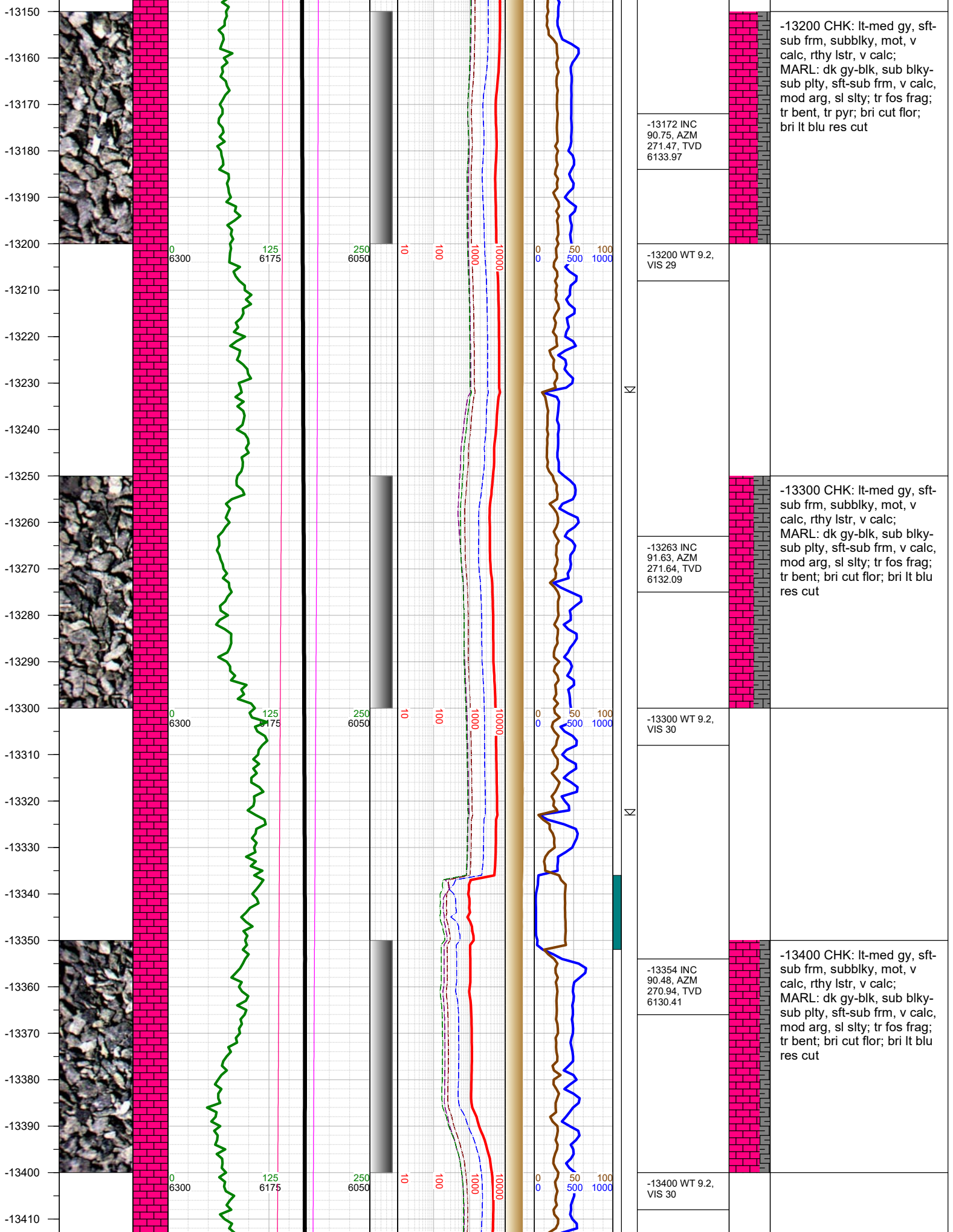
-12100 CHK: lt-med gy, sft-sub frm, subblky, mot, v calc, rthy lstr, v calc; MARL: dk gy-blk, sub blk-sub plty, sft-sub frm, v calc, mod arg, sl slty; tr fos frag, tr forams; tr py; v.bri cut flr; v.bri lt blu res cut

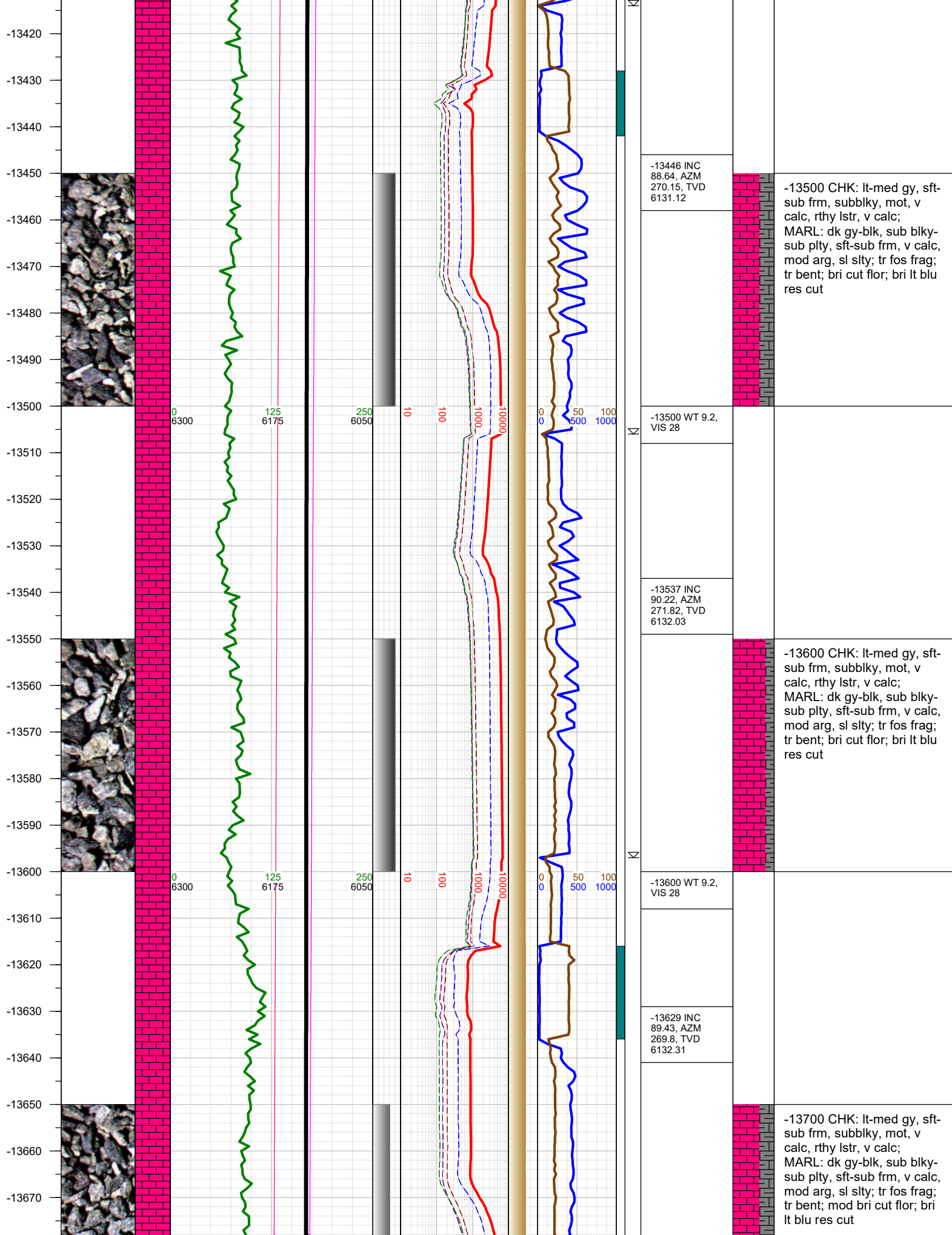


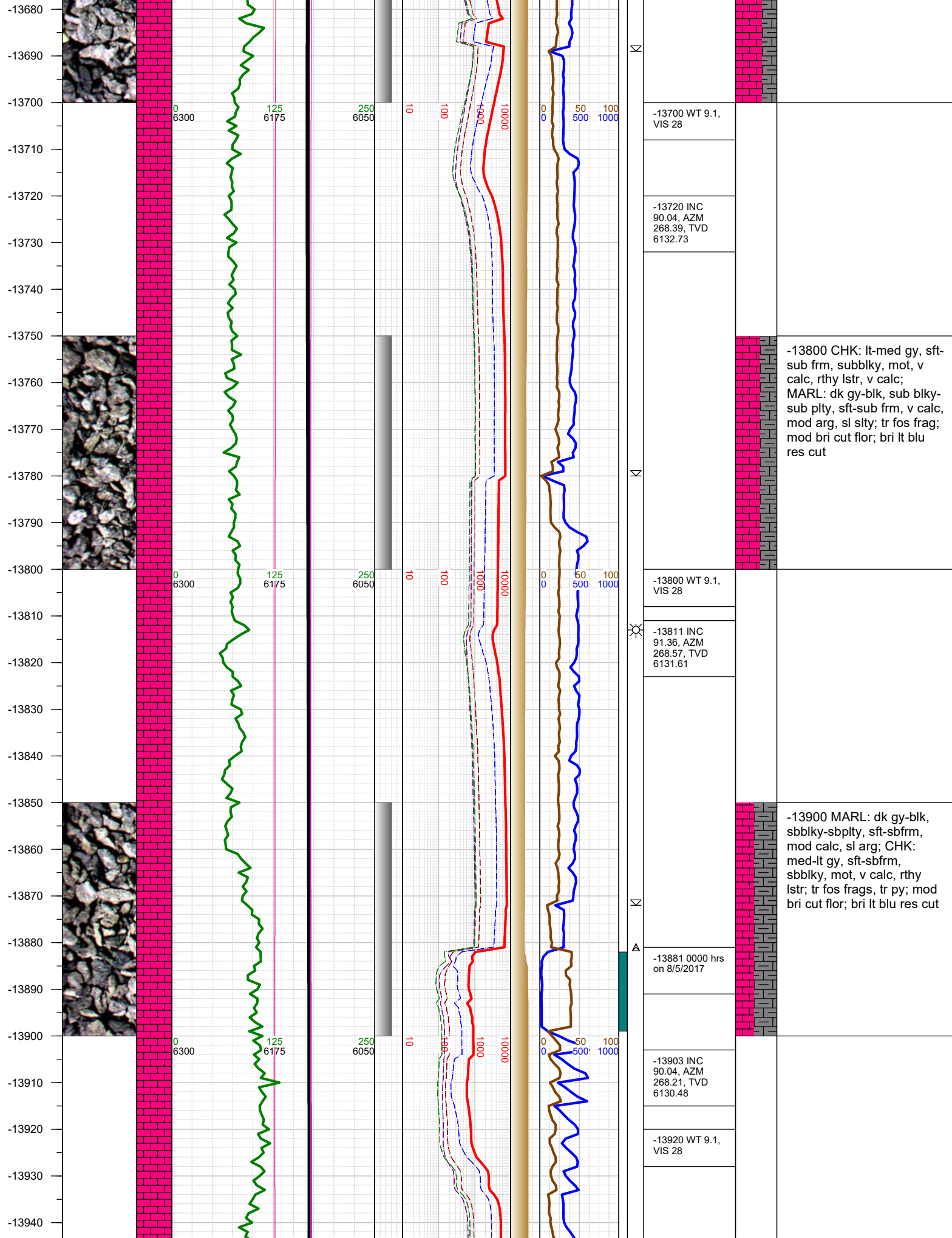


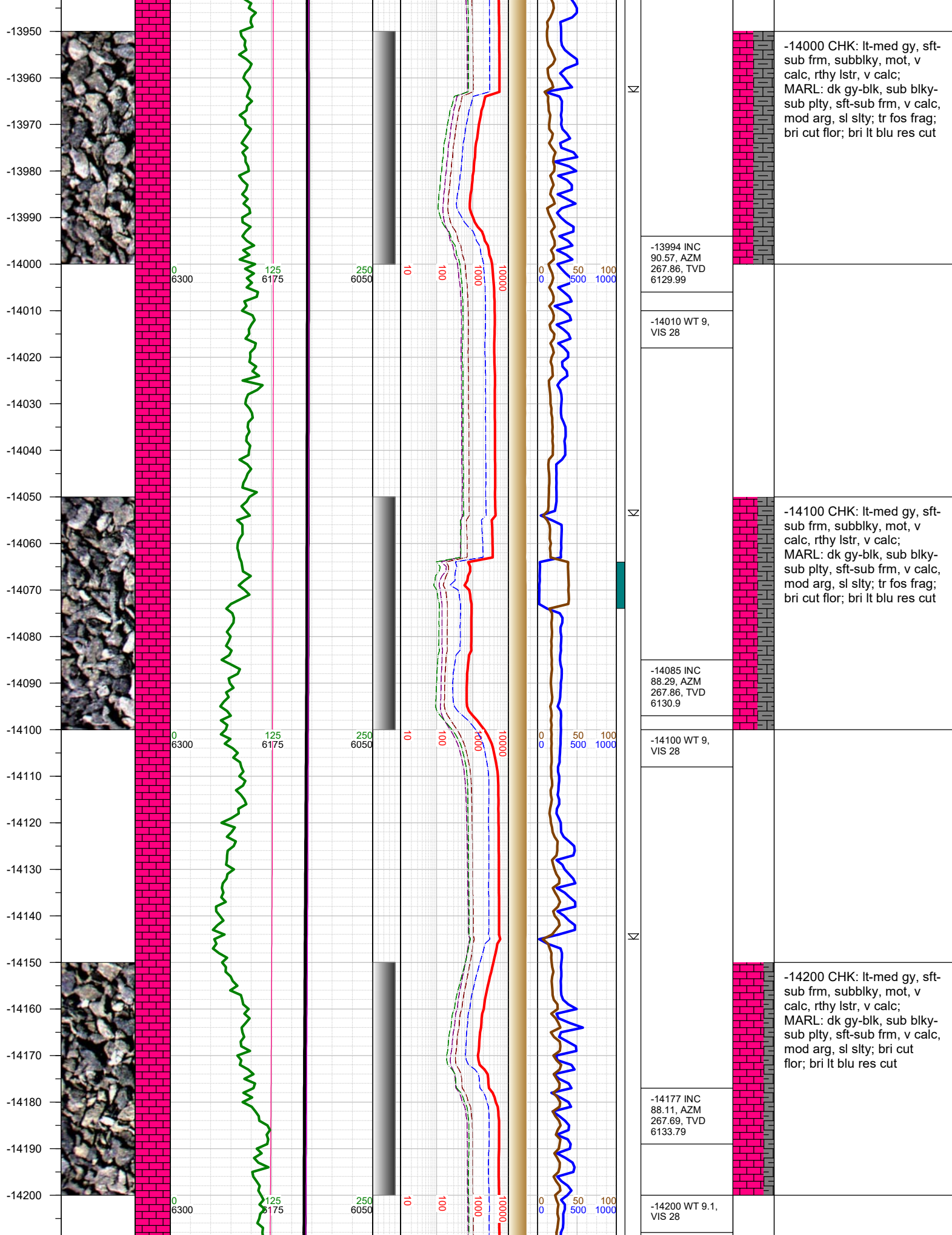


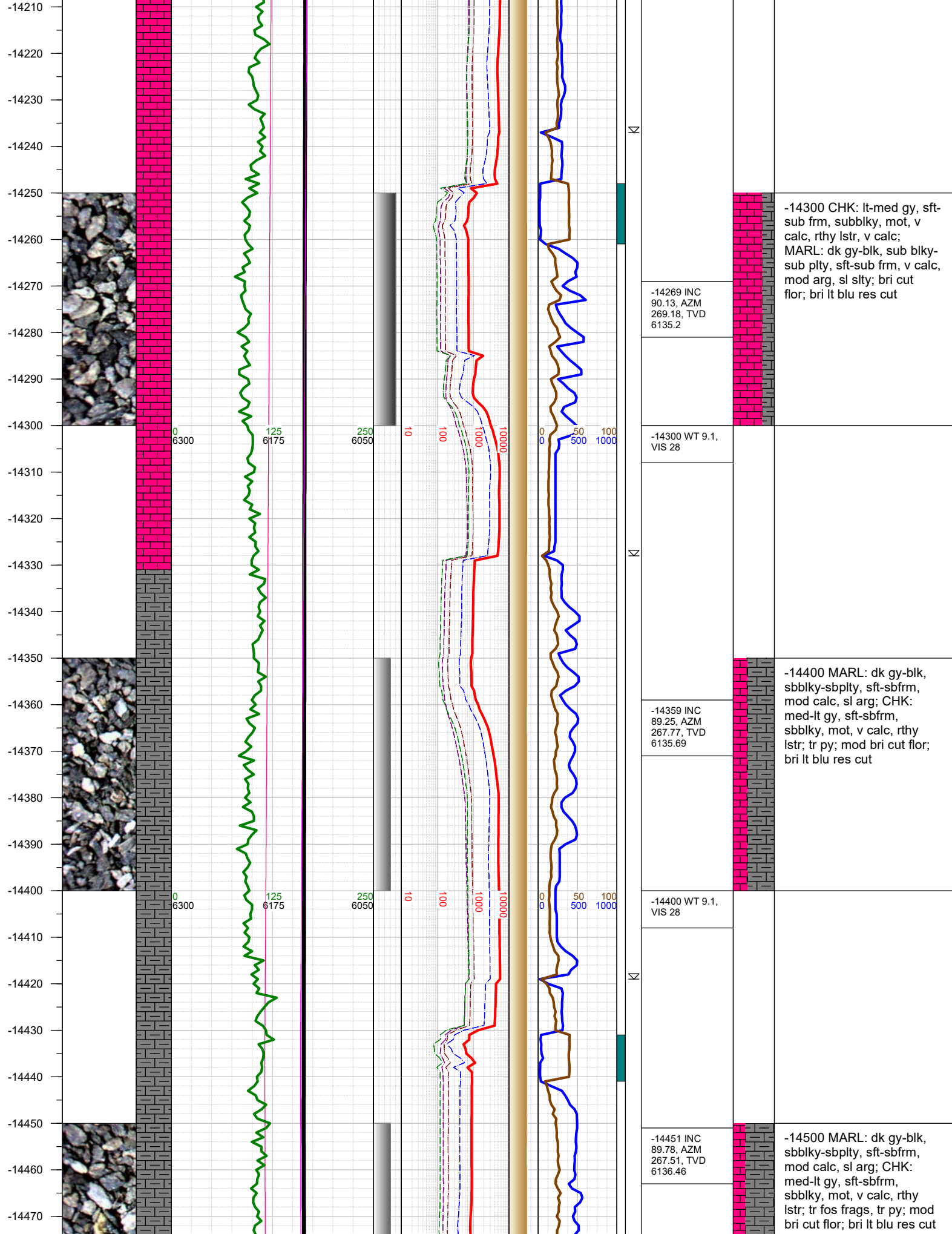


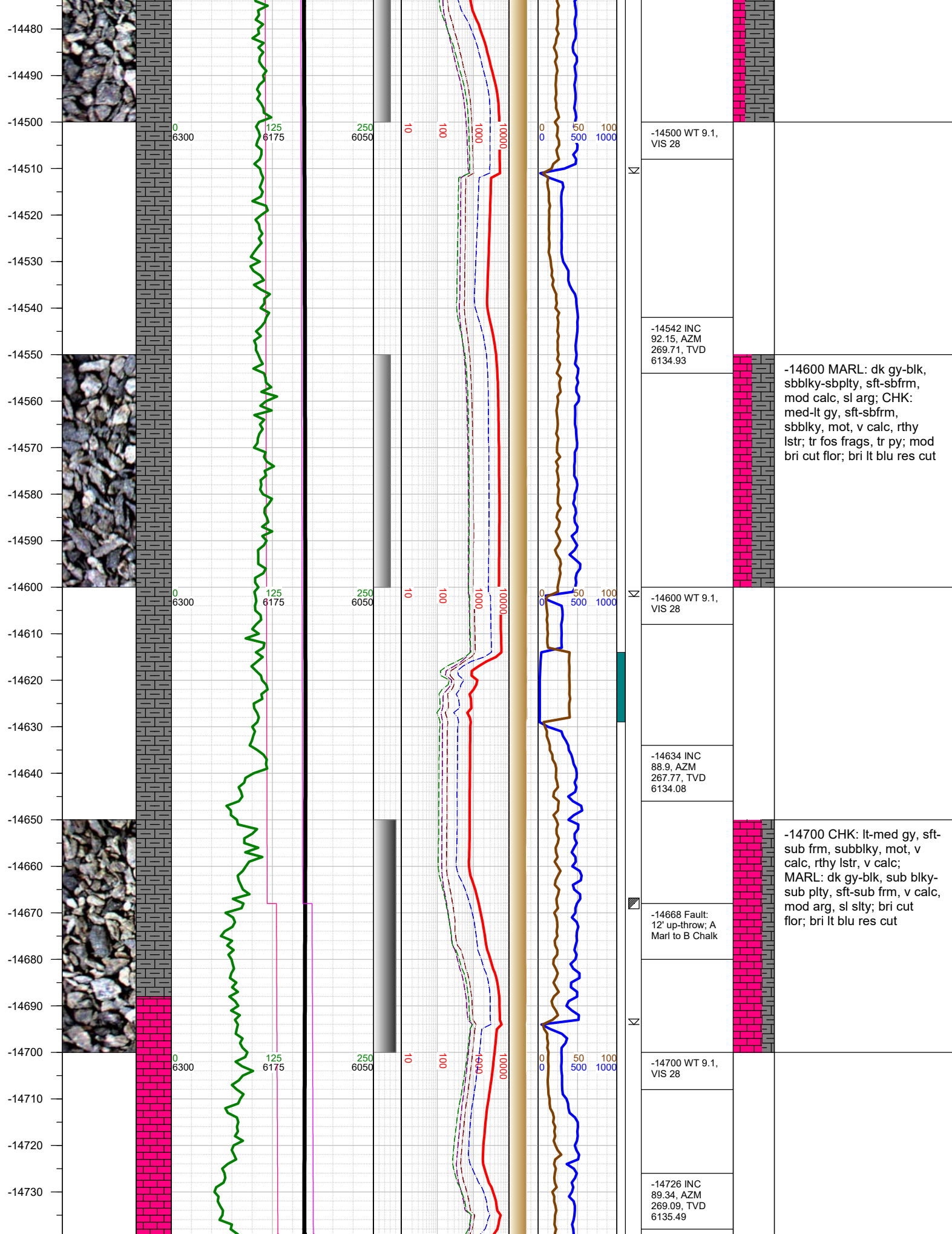


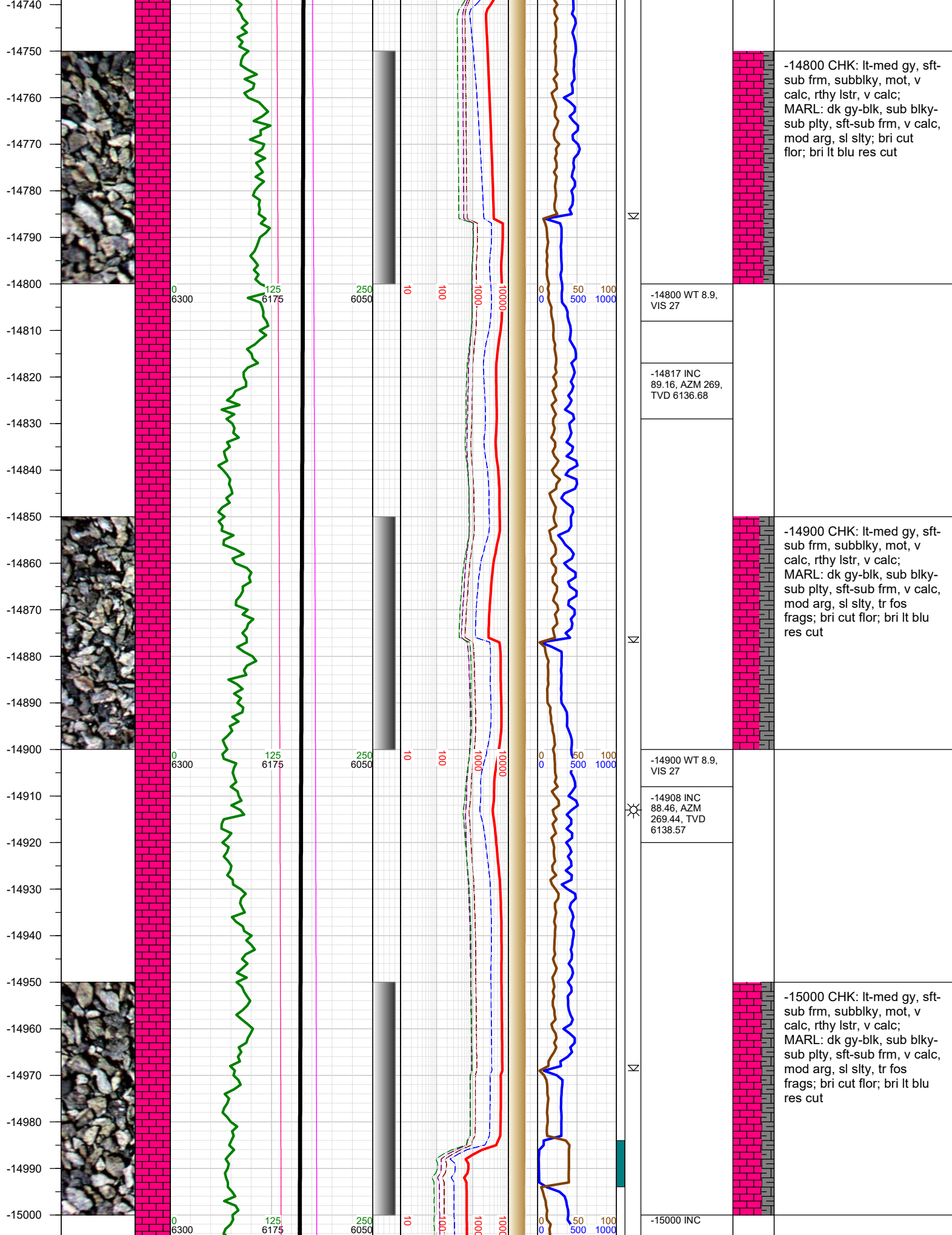


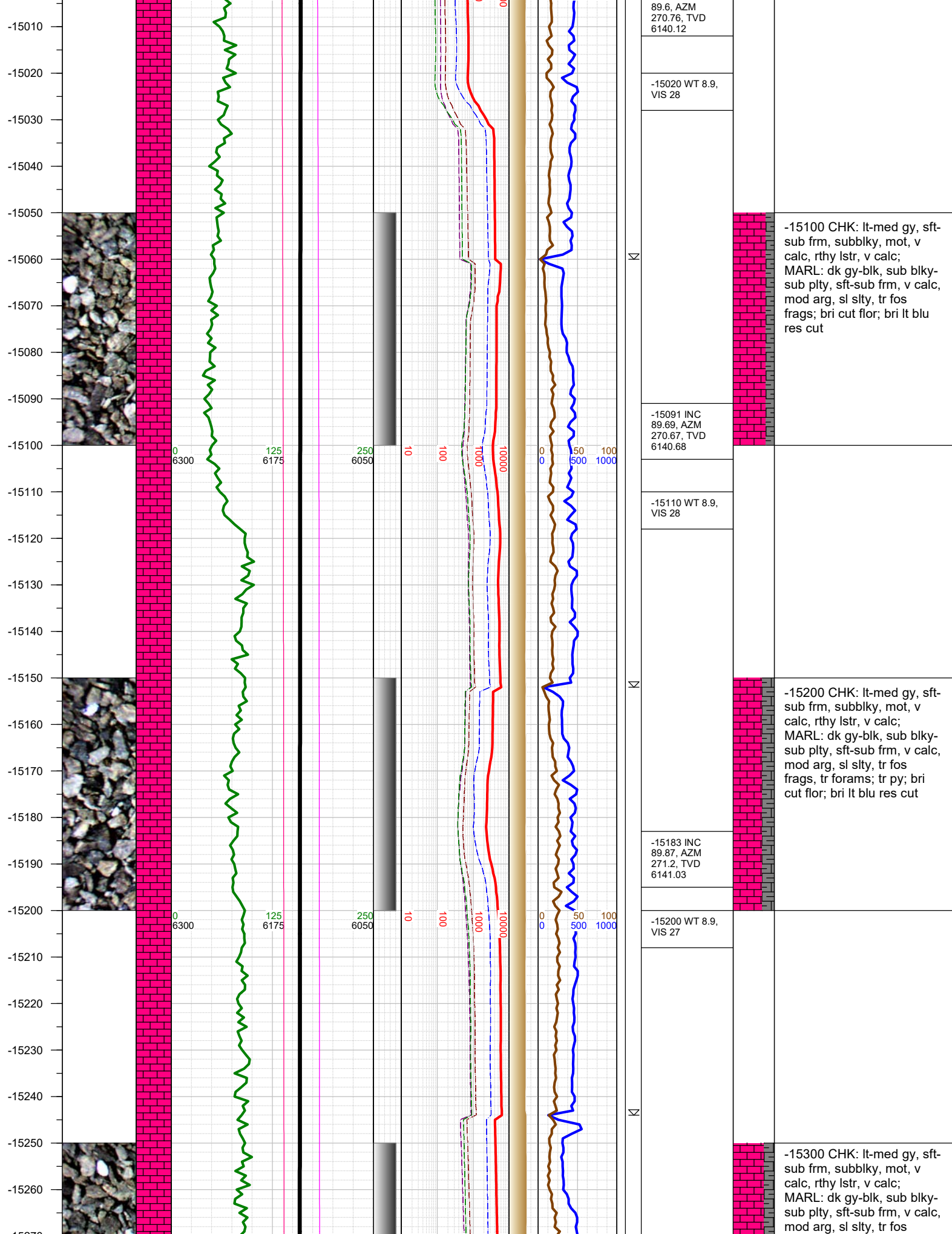


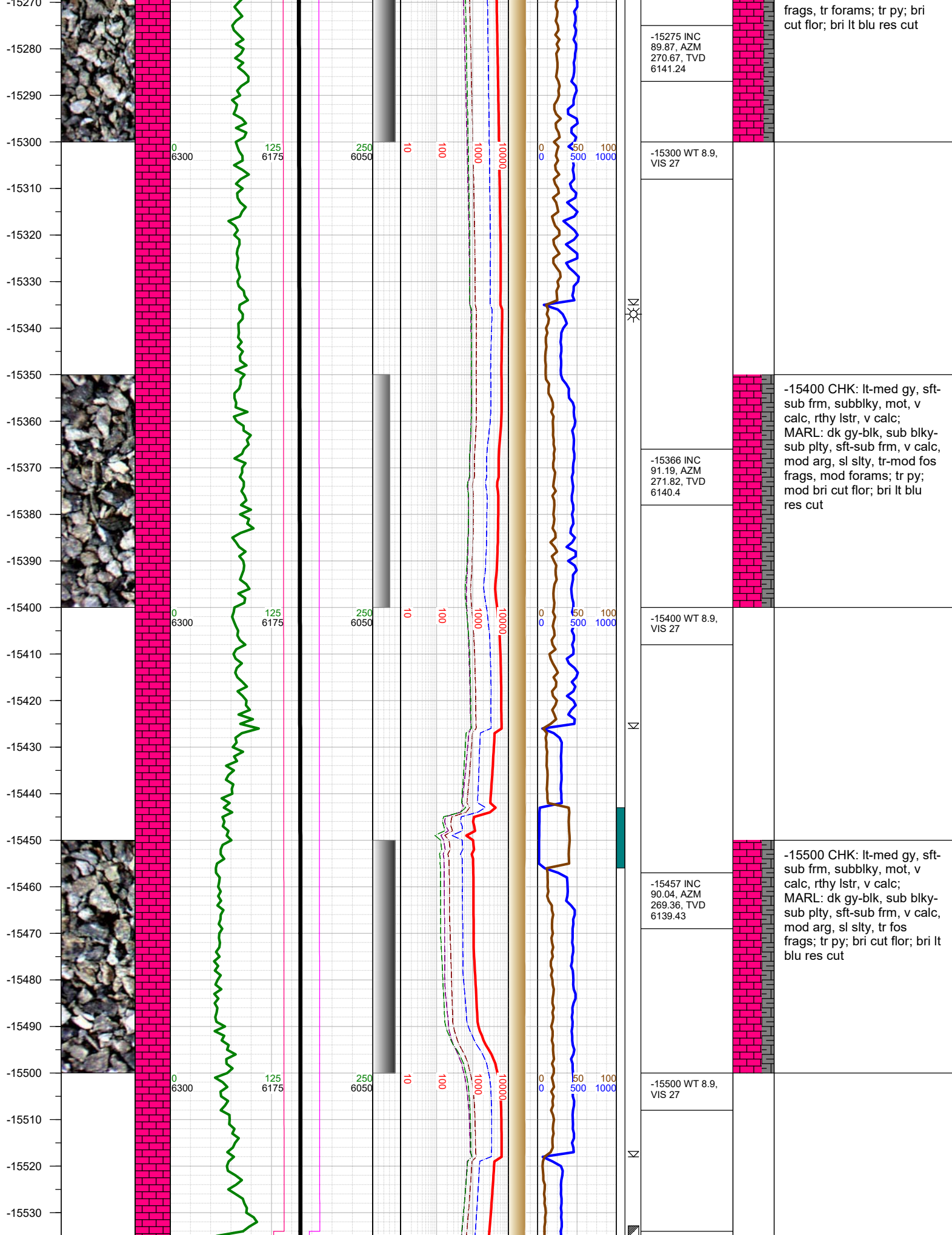












-15275 INC
89.87, AZM
270.67, TVD
6141.24

-15300 WT 8.9,
VIS 27

-15366 INC
91.19, AZM
271.82, TVD
6140.4

-15400 WT 8.9,
VIS 27

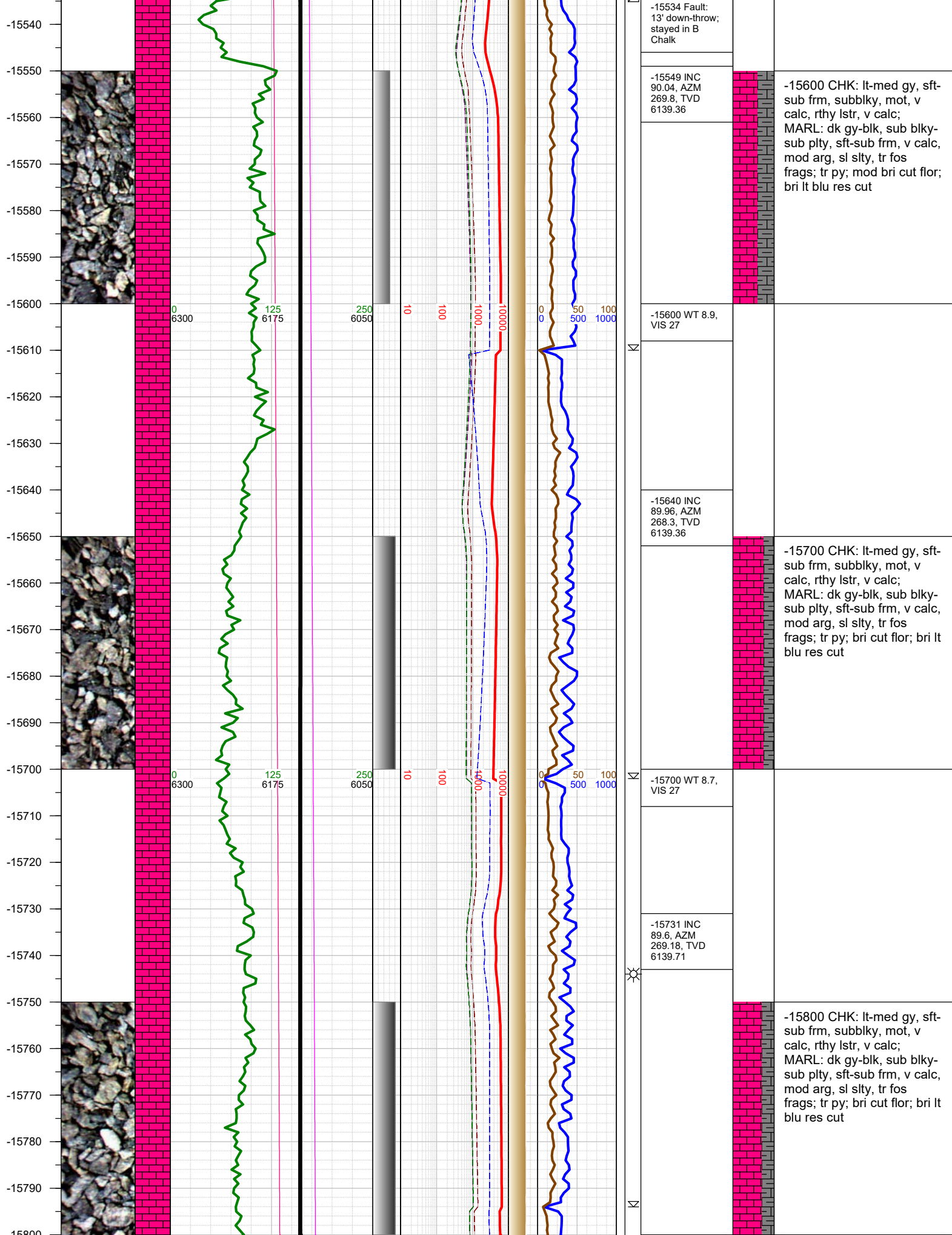
-15457 INC
90.04, AZM
269.36, TVD
6139.43

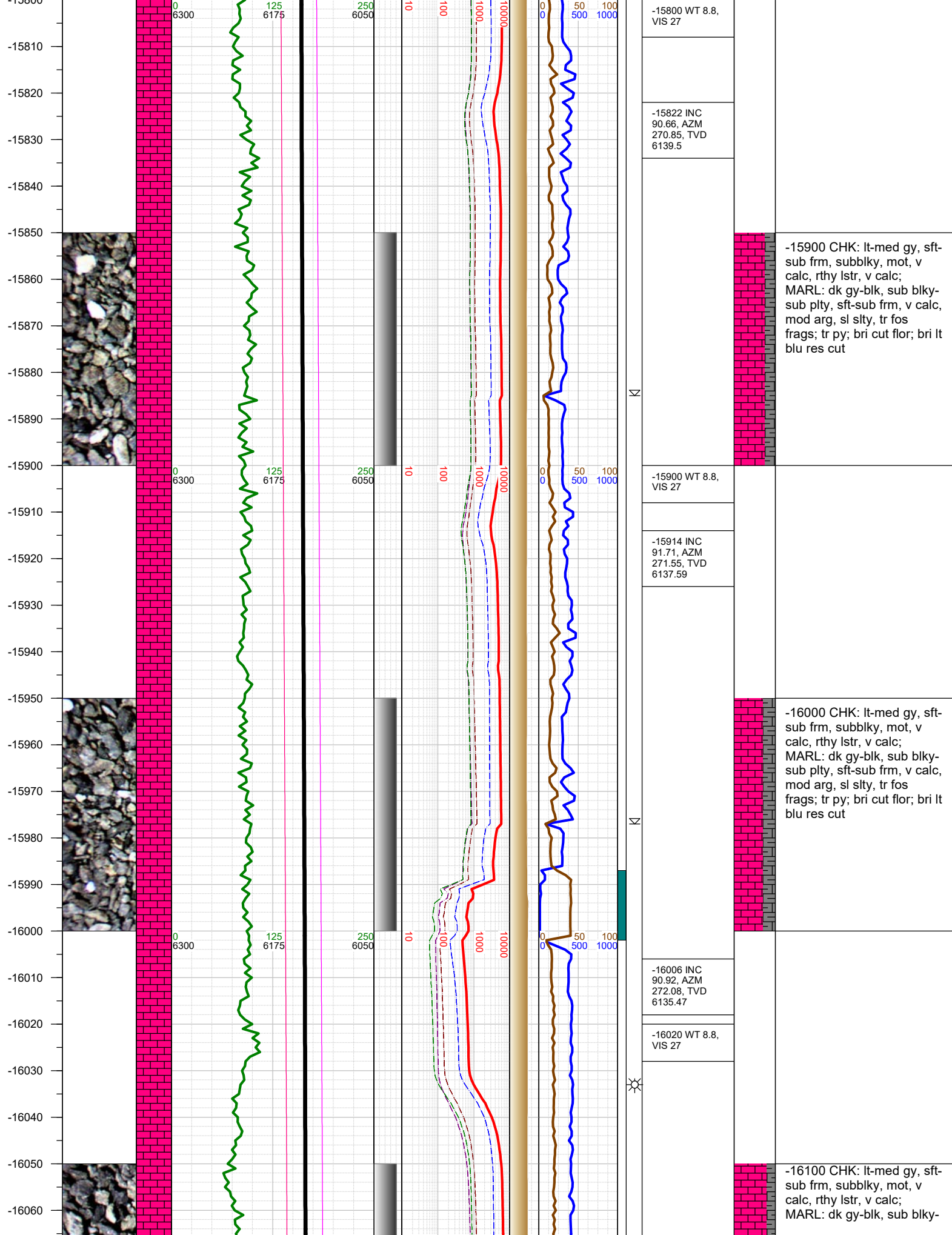
-15500 WT 8.9,
VIS 27

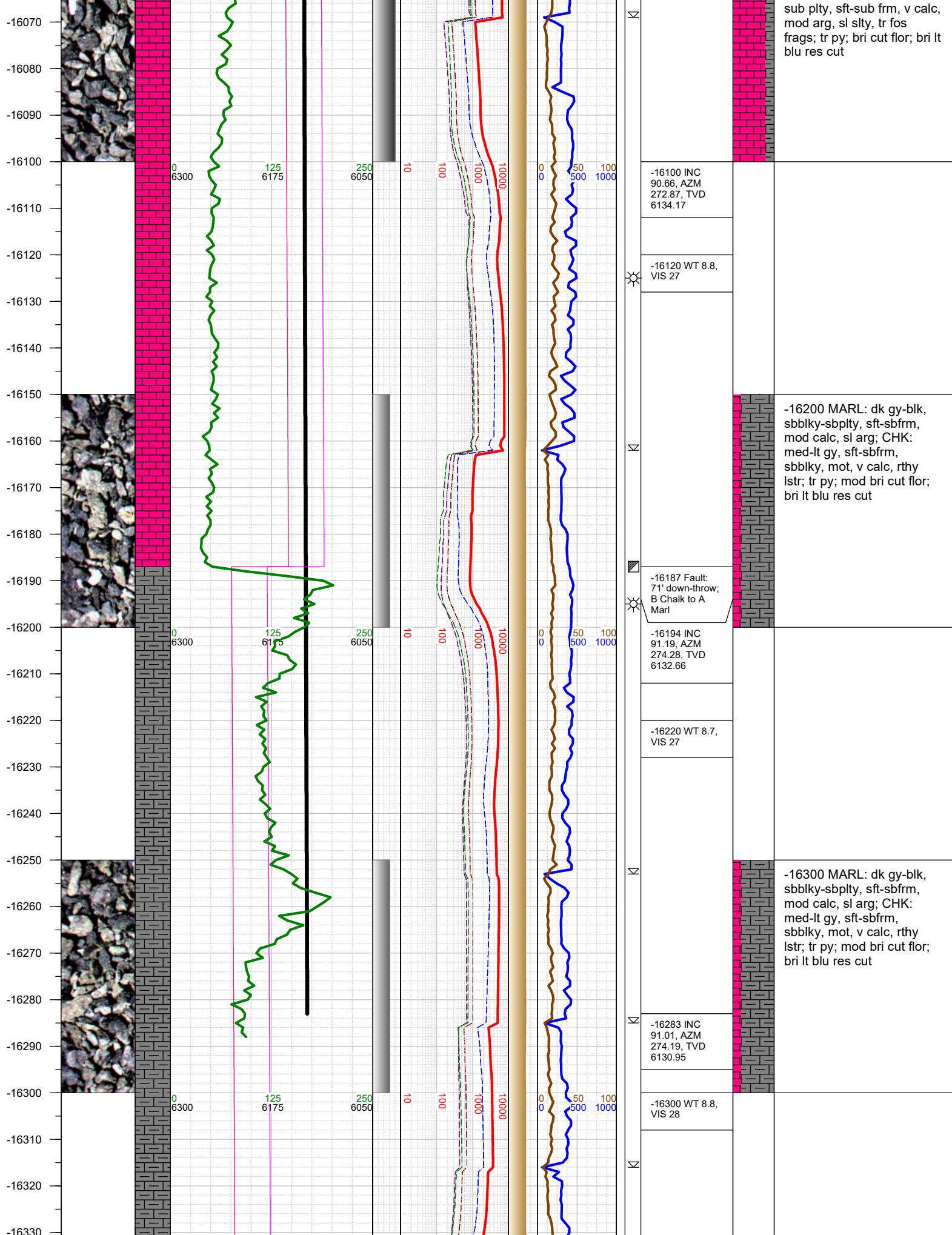
frags, tr forams; tr py; bri
cut flor; bri lt blu res cut

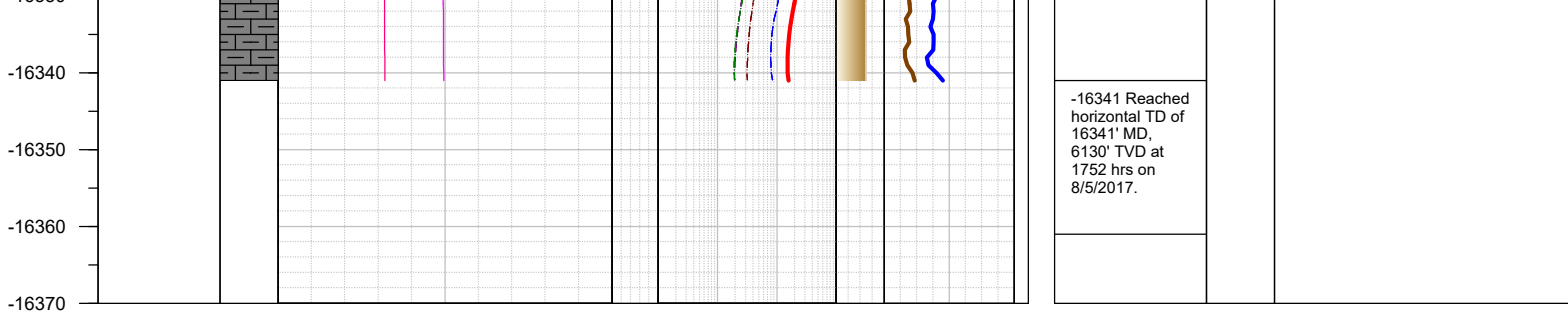
-15400 CHK: lt-med gy, sft-
sub frm, subblky, mot, v
calc, rthy lstr, v calc;
MARL: dk gy-blk, sub blk-
sub plty, sft-sub frm, v calc,
mod arg, sl slty, tr-mod fos
frags, mod forams; tr py;
mod bri cut flor; bri lt blu
res cut

-15500 CHK: lt-med gy, sft-
sub frm, subblky, mot, v
calc, rthy lstr, v calc;
MARL: dk gy-blk, sub blk-
sub plty, sft-sub frm, v calc,
mod arg, sl slty, tr fos
frags; tr py; bri cut flor; bri lt
blu res cut









TOTAL DEPTH = 16341'

Thank you for using Earth Science Agency