

OPERATOR: **Bill Barrett Corp**

WELL NAME: **Anschutz State 5-62-26-1609BH2**

FIELD NAME: Wattenberg

DRILLING RIG: Cade 24

API #: 05-123-40224-01



Earth Science Agency, LLC

COUNTY: Weld

STATE: Colorado

GROUND ELEVATION: 4640'

KELLY BUSHING: 4656'

DRILLING FLUID: LSND

TVD VS. MD: 6168' / 13941'

SPUD DATE:

BEGIN LOGGING: 4500'; May 15, 2015

TD DATE:

DATES LOGGED: May 15 - May 25, 2015; Jun 2 - Jun 5, 2015

DEPTHS LOGGED: 4500' - 13941'

LOGGER: Blue Spikes

#### LEGEND



CHALK



LIMESTONE



SHALY LIMESTONE



MARLSTONE



CALCAREOUS SHALE



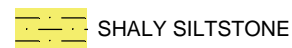
DOLOMITE



SHALE



SILTY SHALE



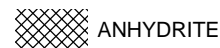
SHALY SILTSTONE



SHALY SANDSTONE



SANDSTONE



ANHYDRITE



FORMATION



CONNECTION



MIDNIGHT



NEW BIT



GAS SHOW

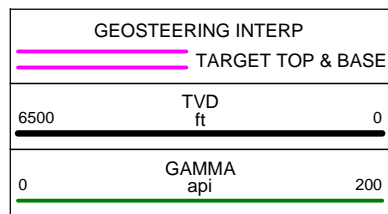


FAULT

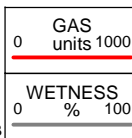
MEASURED DEPTH (FT)

PHOTOS

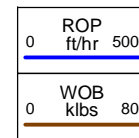
MUDLOGGER INTERP



OIL SHOWS  
F < B



MUD VOL. 800 bbl

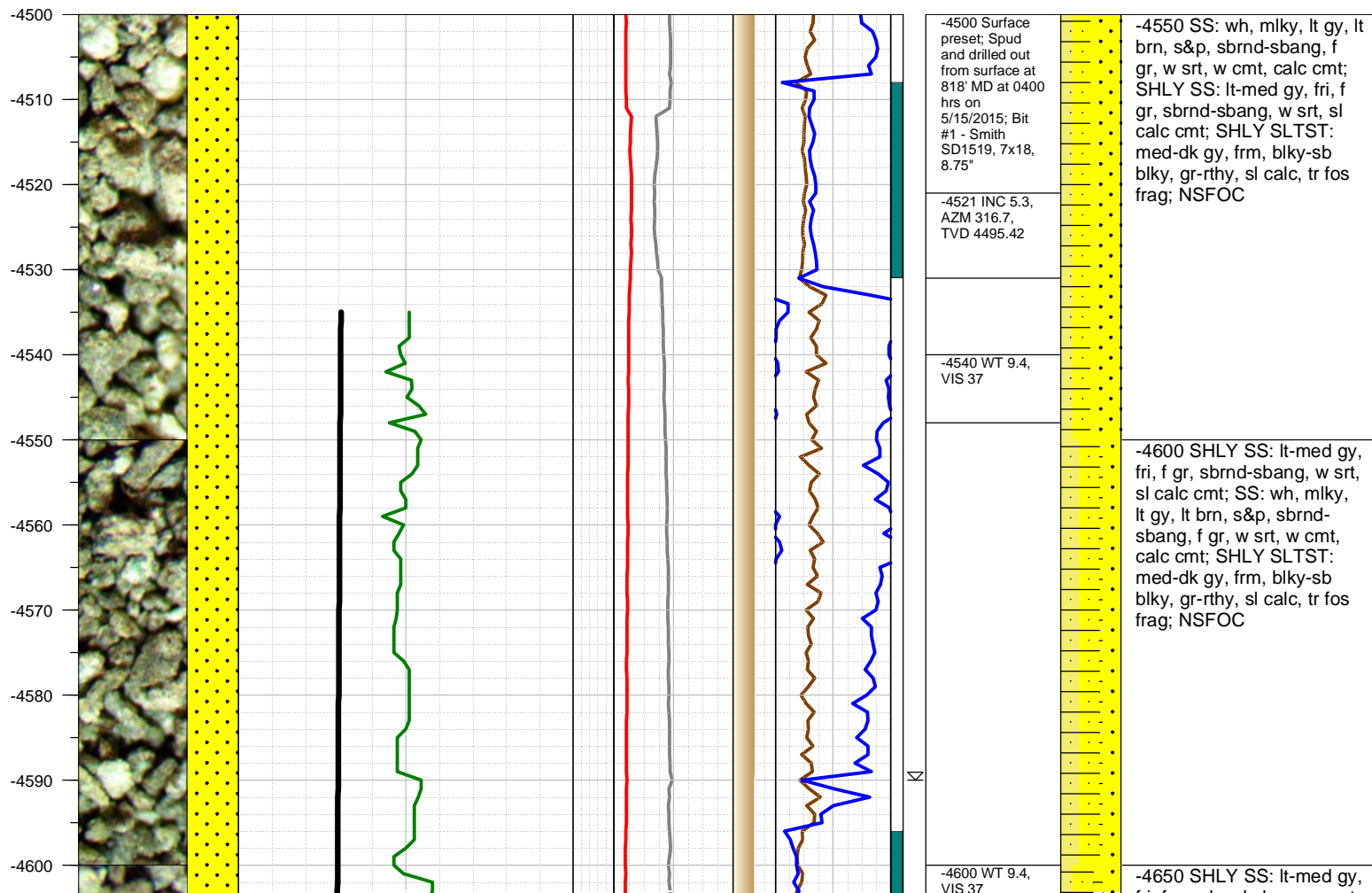


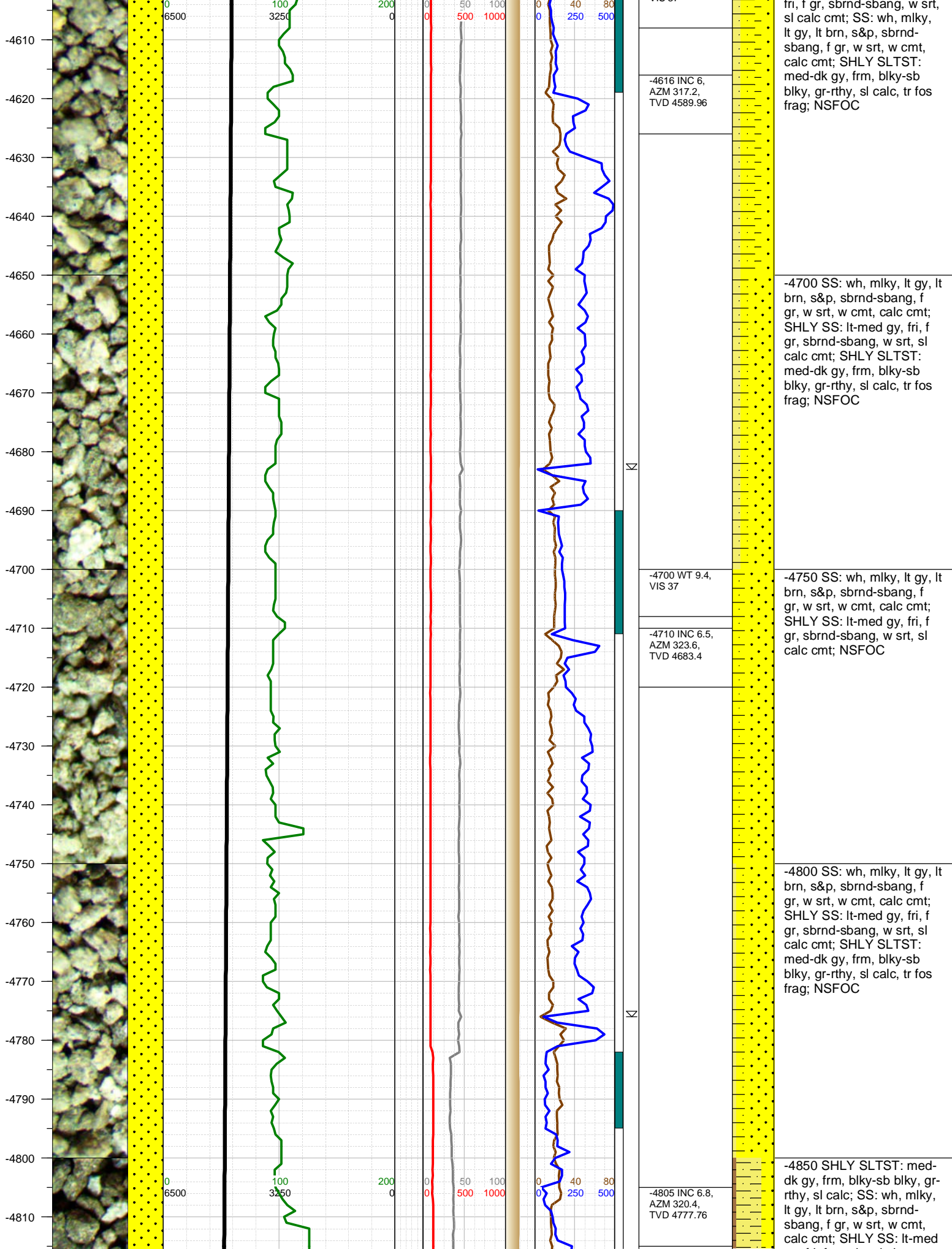
SLIDES  
SYMBOLS

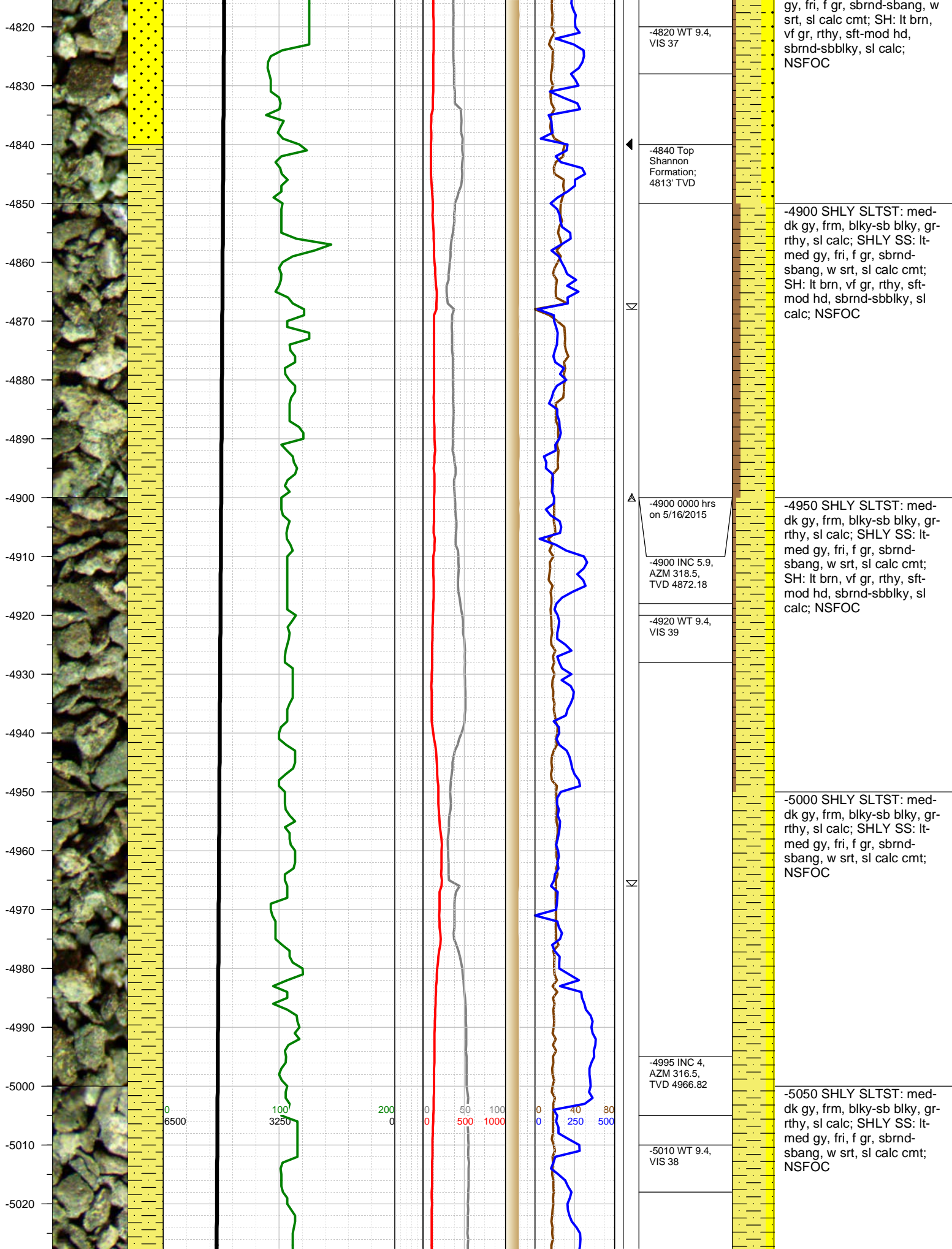
COMMENTS

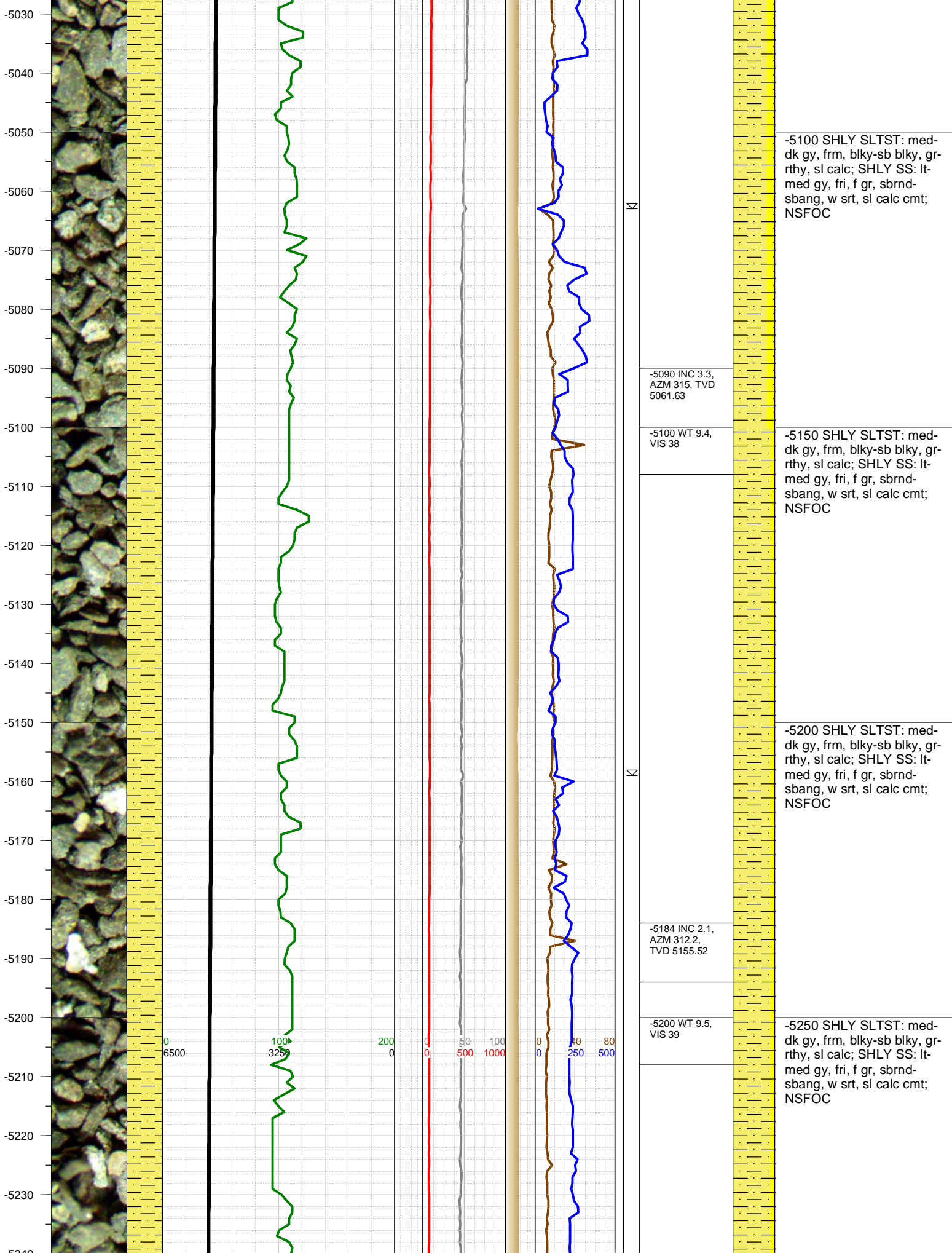
CUTTINGS %

SAMPLE DESCRIPTION

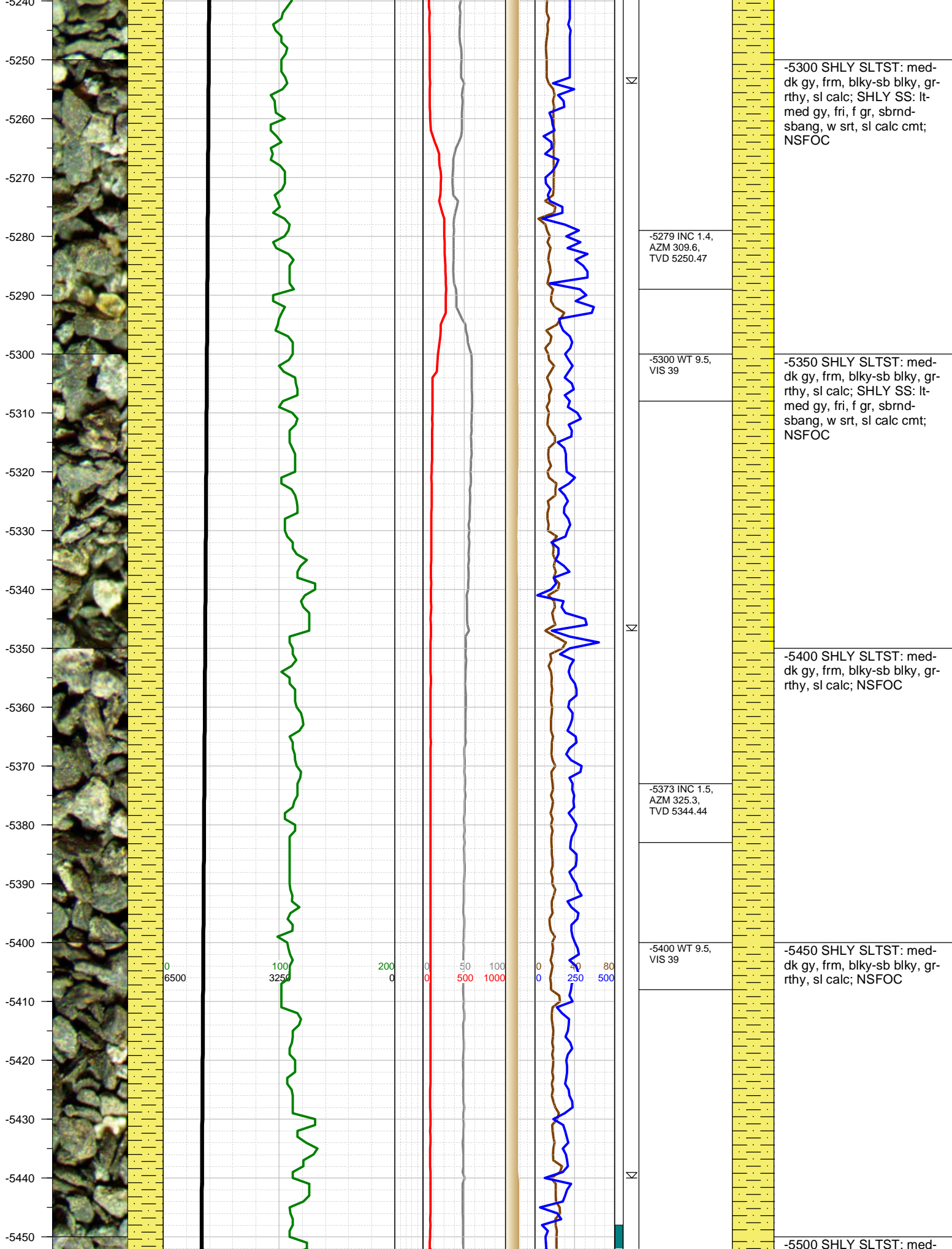


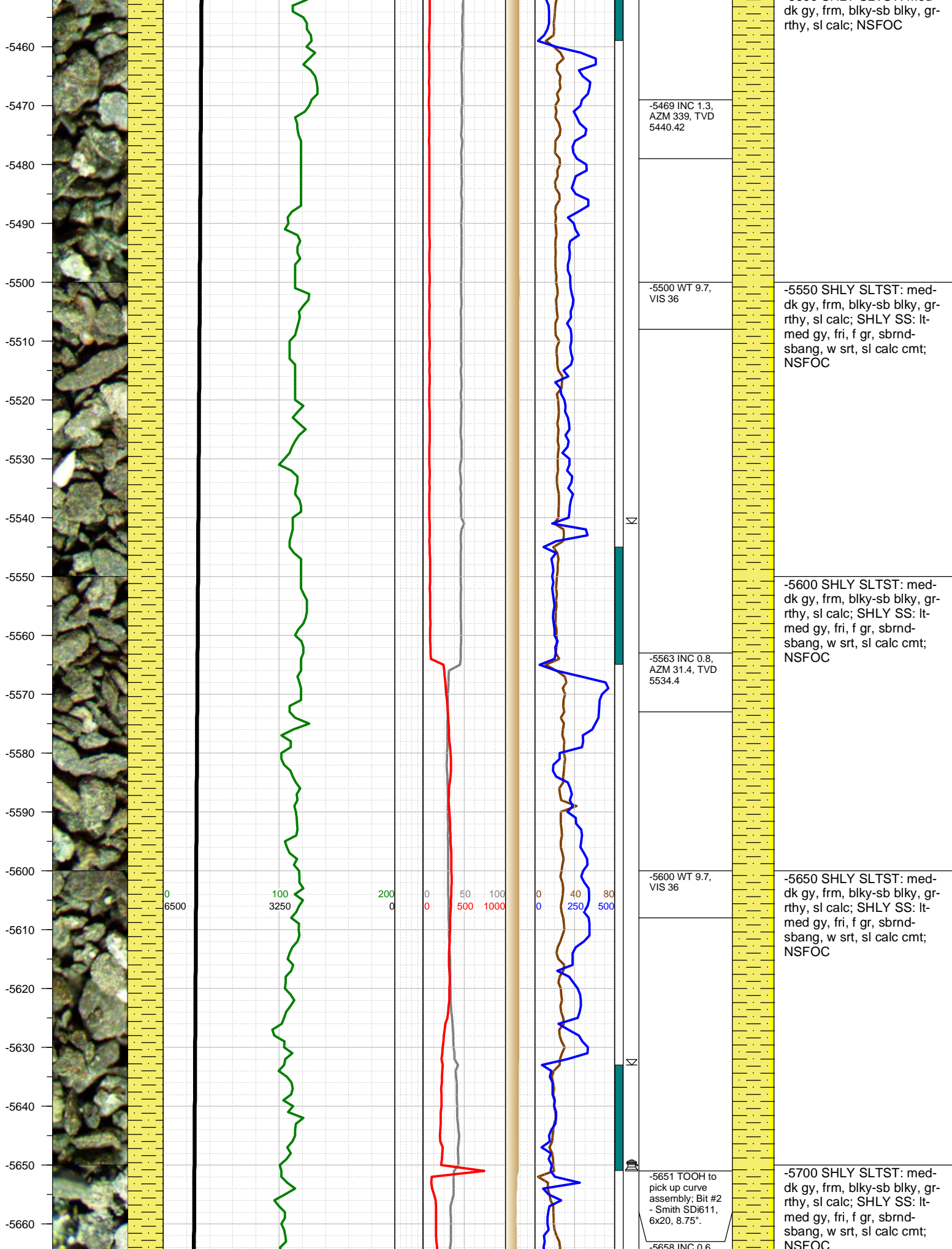


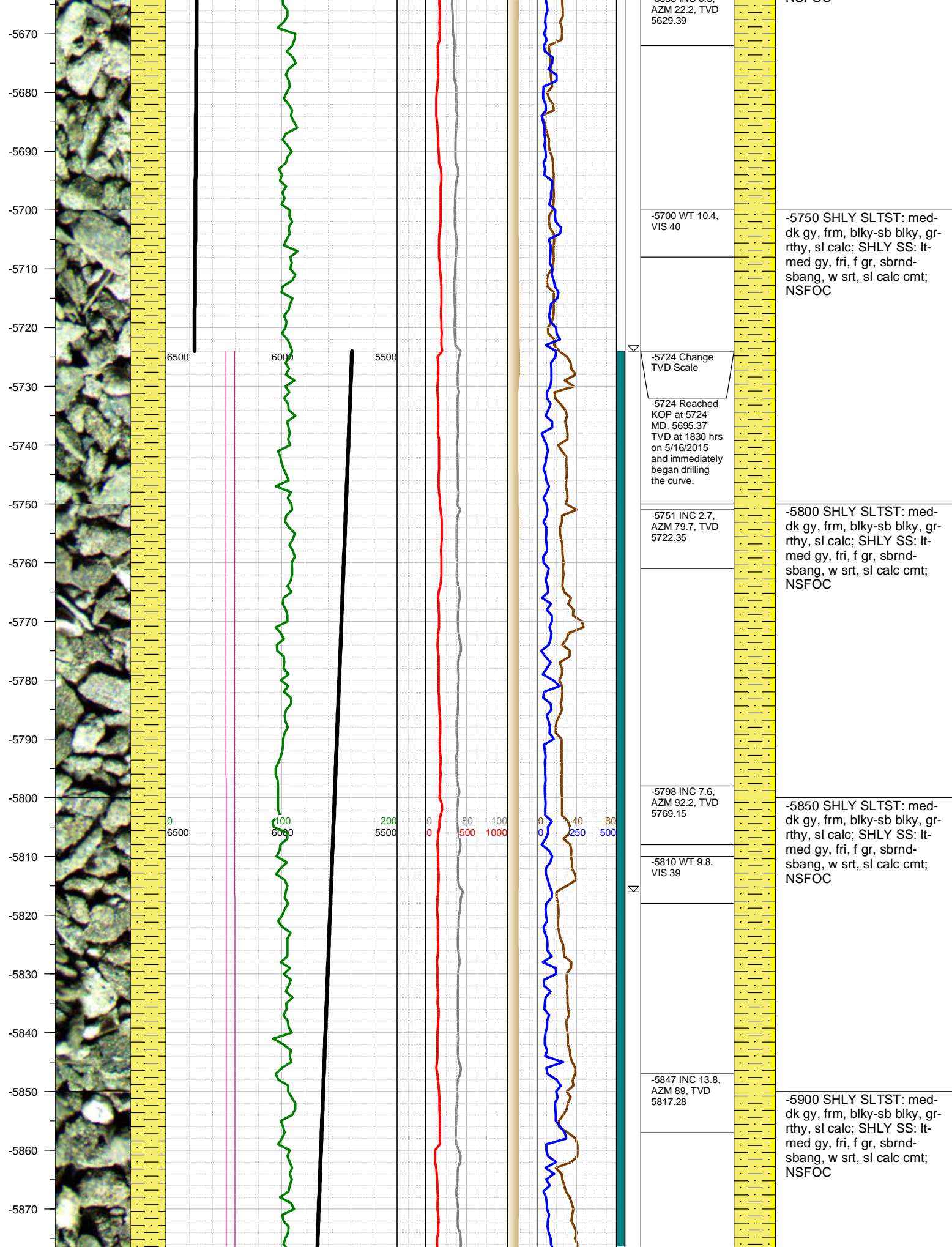




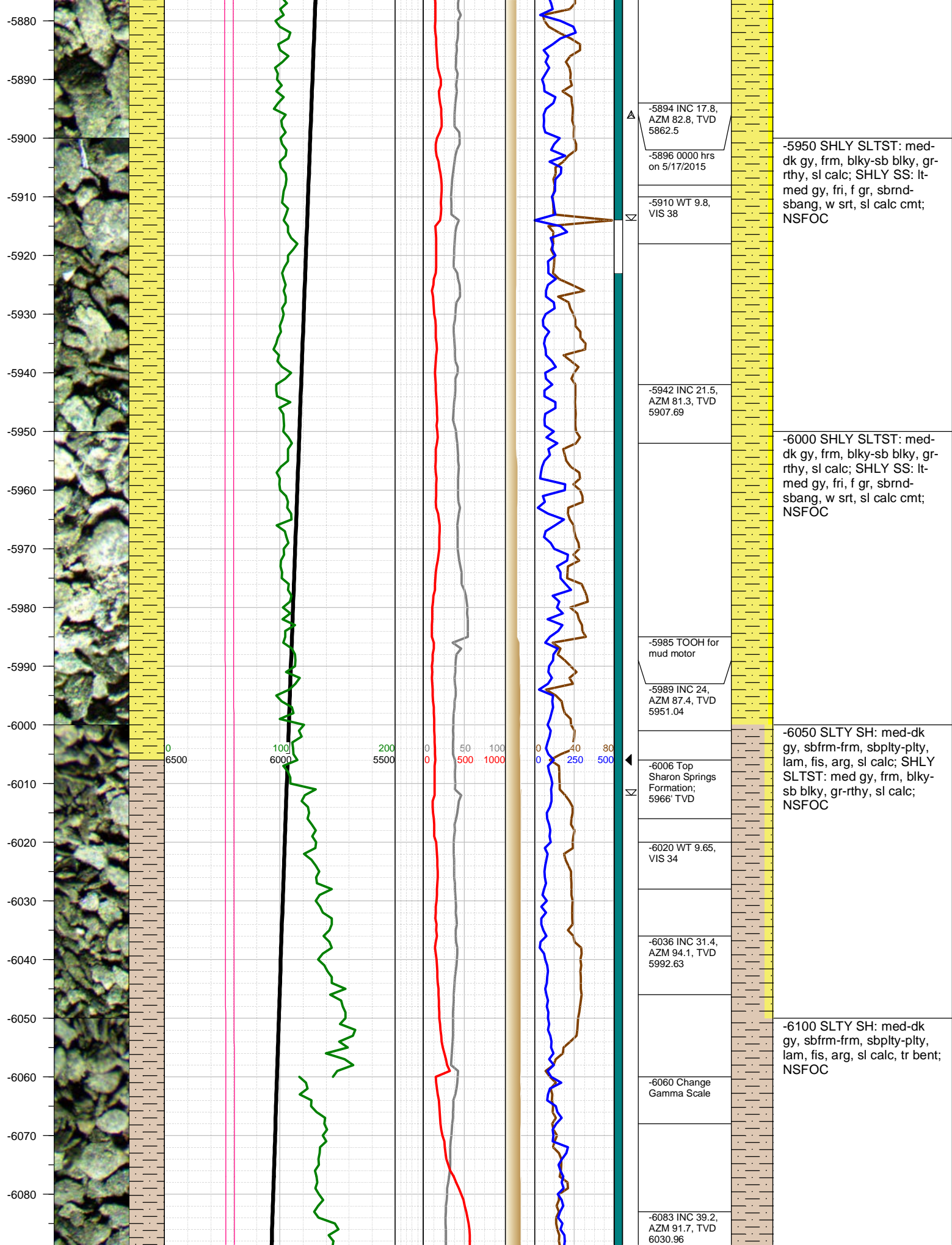




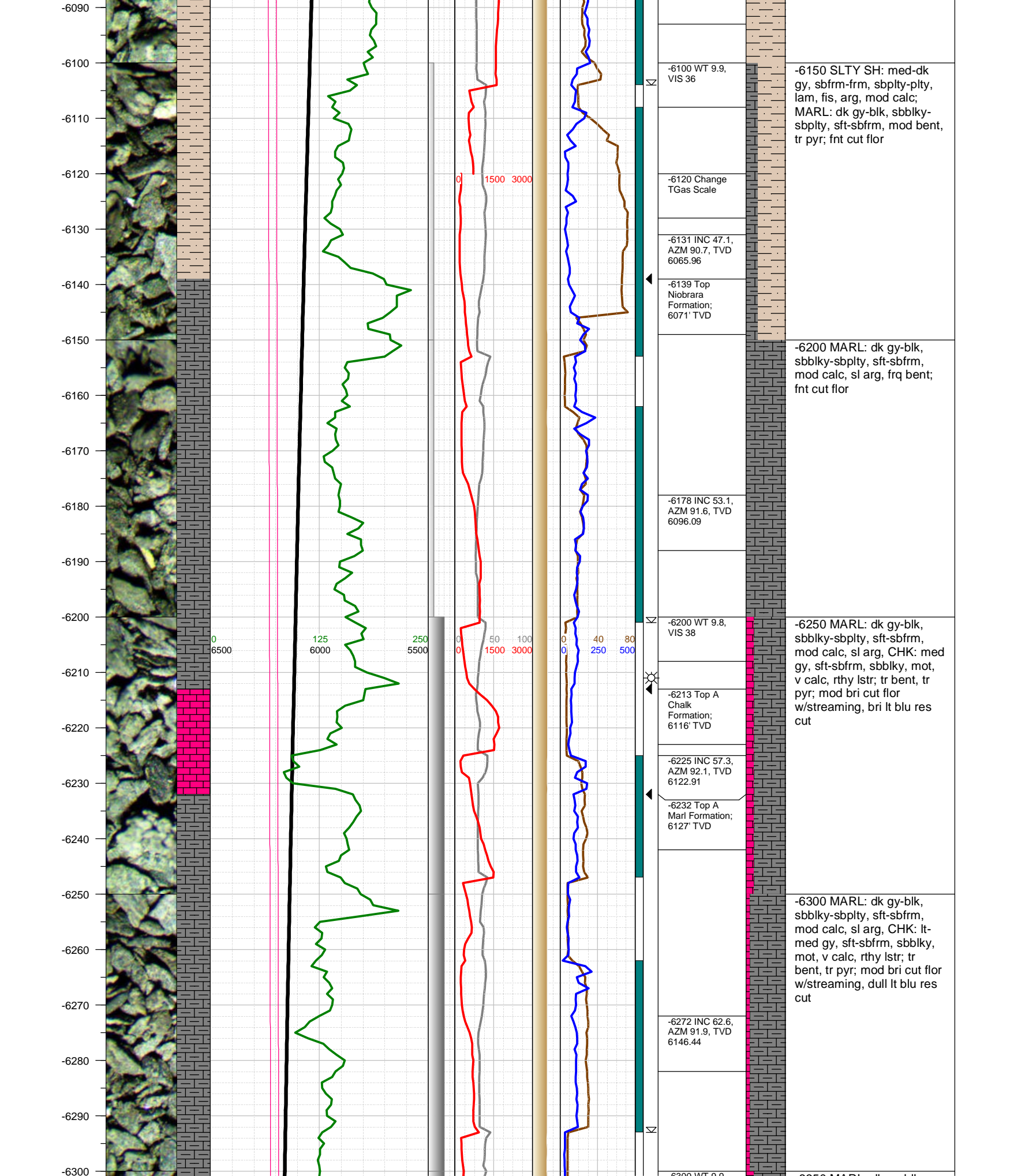


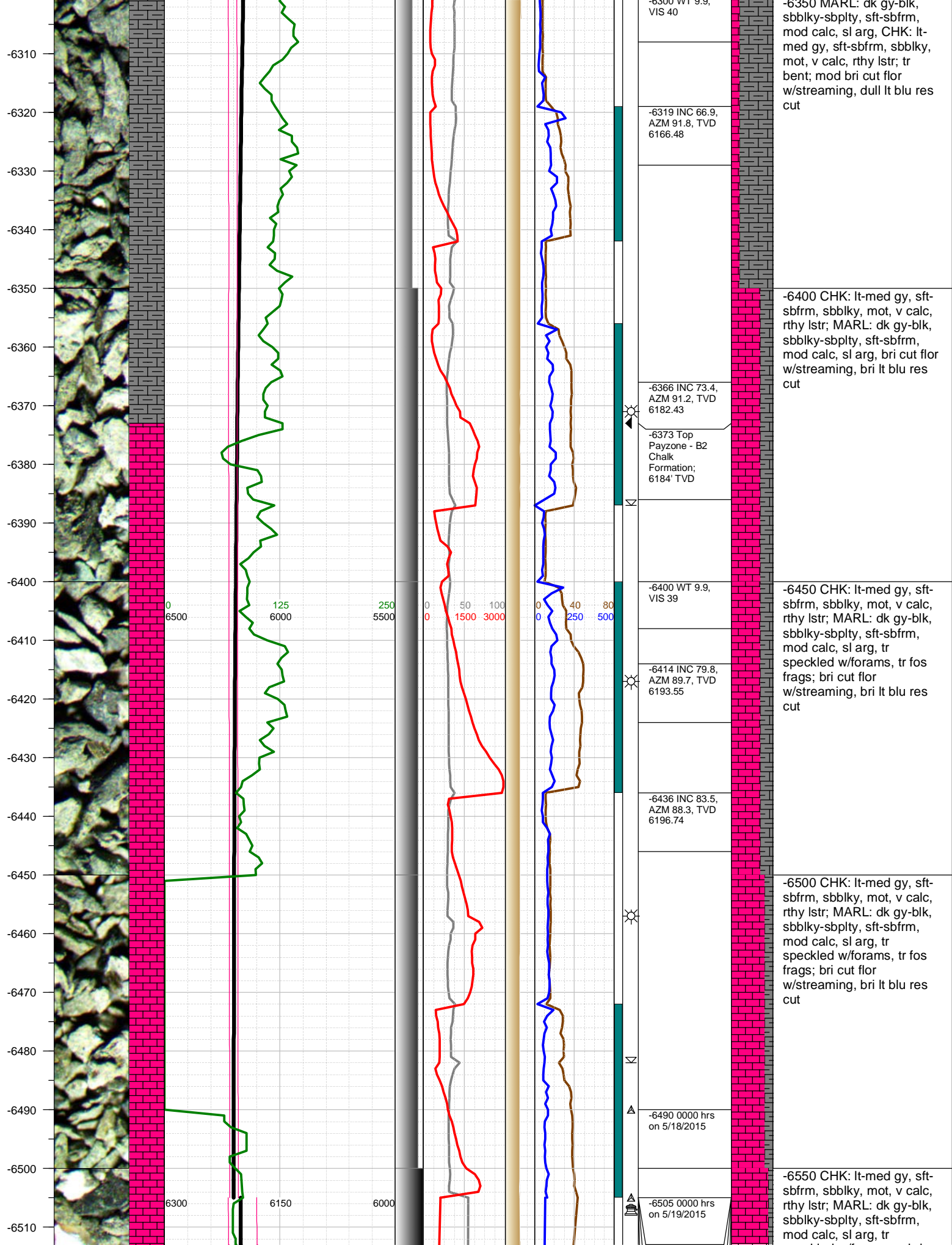


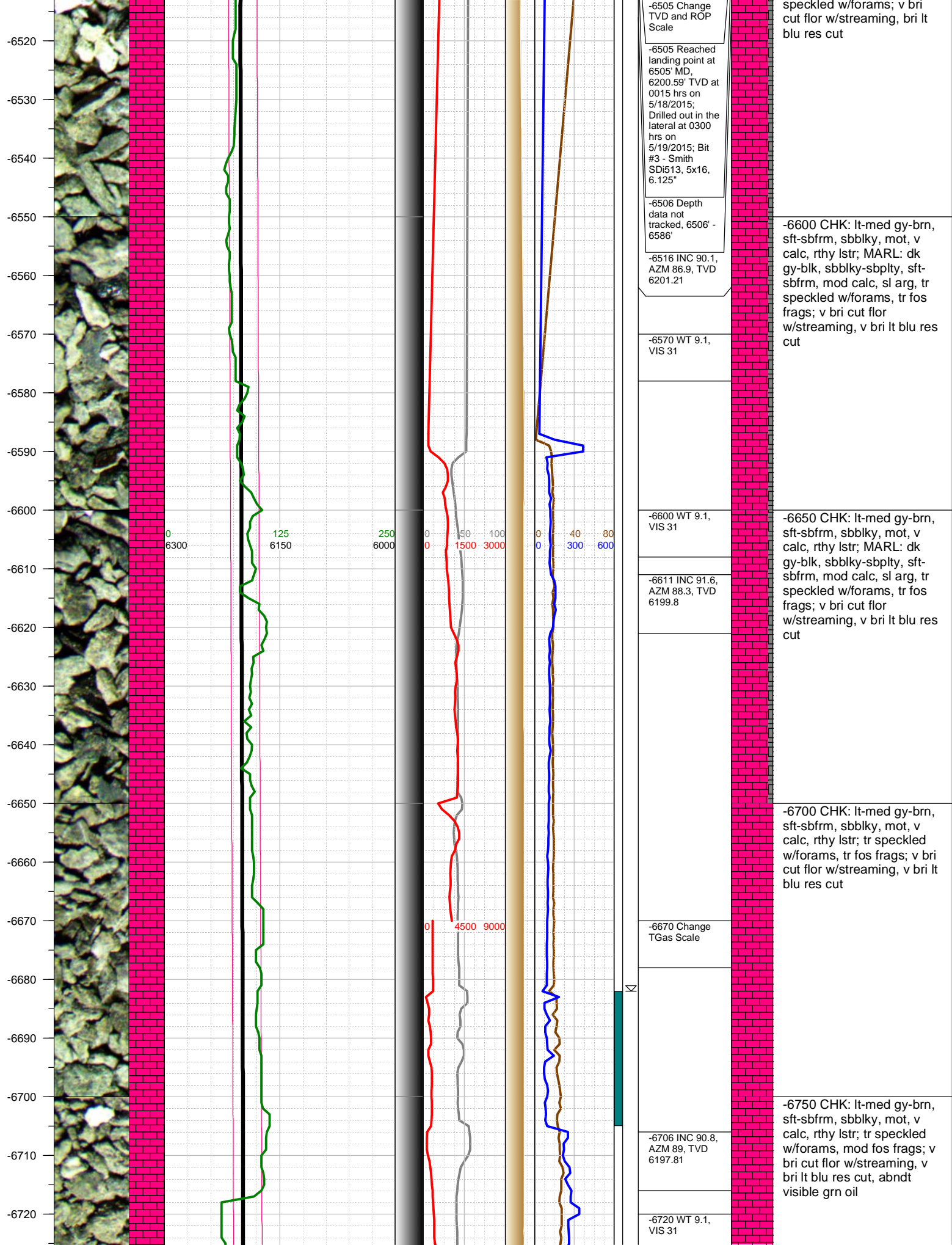












-6505 Change TVD and ROP Scale

-6505 Reached landing point at 6505' MD, 6200.59' TVD at 0015 hrs on 5/18/2015; Drilled out in the lateral at 0300 hrs on 5/19/2015; Bit #3 - Smith SDI513, 5x16, 6.125"

-6506 Depth data not tracked, 6506' - 6586'

-6516 INC 90.1, AZM 86.9, TVD 6201.21

-6570 WT 9.1, VIS 31

-6600 WT 9.1, VIS 31

-6611 INC 91.6, AZM 88.3, TVD 6199.8

-6670 Change TGas Scale

-6706 INC 90.8, AZM 89, TVD 6197.81

-6720 WT 9.1, VIS 31

-6600 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags; v bri cut flr w/streaming, v bri lt blu res cut

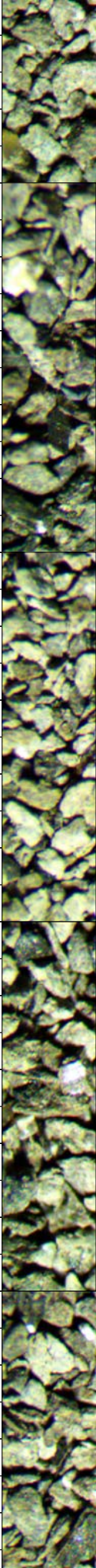
-6650 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags; v bri cut flr w/streaming, v bri lt blu res cut

-6700 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr speckled w/forams, tr fos frags; v bri cut flr w/streaming, v bri lt blu res cut

-6750 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr speckled w/forams, mod fos frags; v bri cut flr w/streaming, v bri lt blu res cut, abndt visible grn oil



-6730  
-6740  
-6750  
-6760  
-6770  
-6780  
-6790  
-6800  
-6810  
-6820  
-6830  
-6840  
-6850  
-6860  
-6870  
-6880  
-6890  
-6900  
-6910  
-6920  
-6930



0  
6300

125  
6150

250  
6000

0  
0

50  
4500

100  
9000

0  
0

40  
300

80  
600



-6736 Abundant  
oil visible in  
samples



-6800 INC 90.6,  
AZM 89.7, TVD  
6196.66

-6810 WT 9.1,  
VIS 30



-6895 INC 91.4,  
AZM 89.3, TVD  
6195

-6910 WT 9.1,  
VIS 32

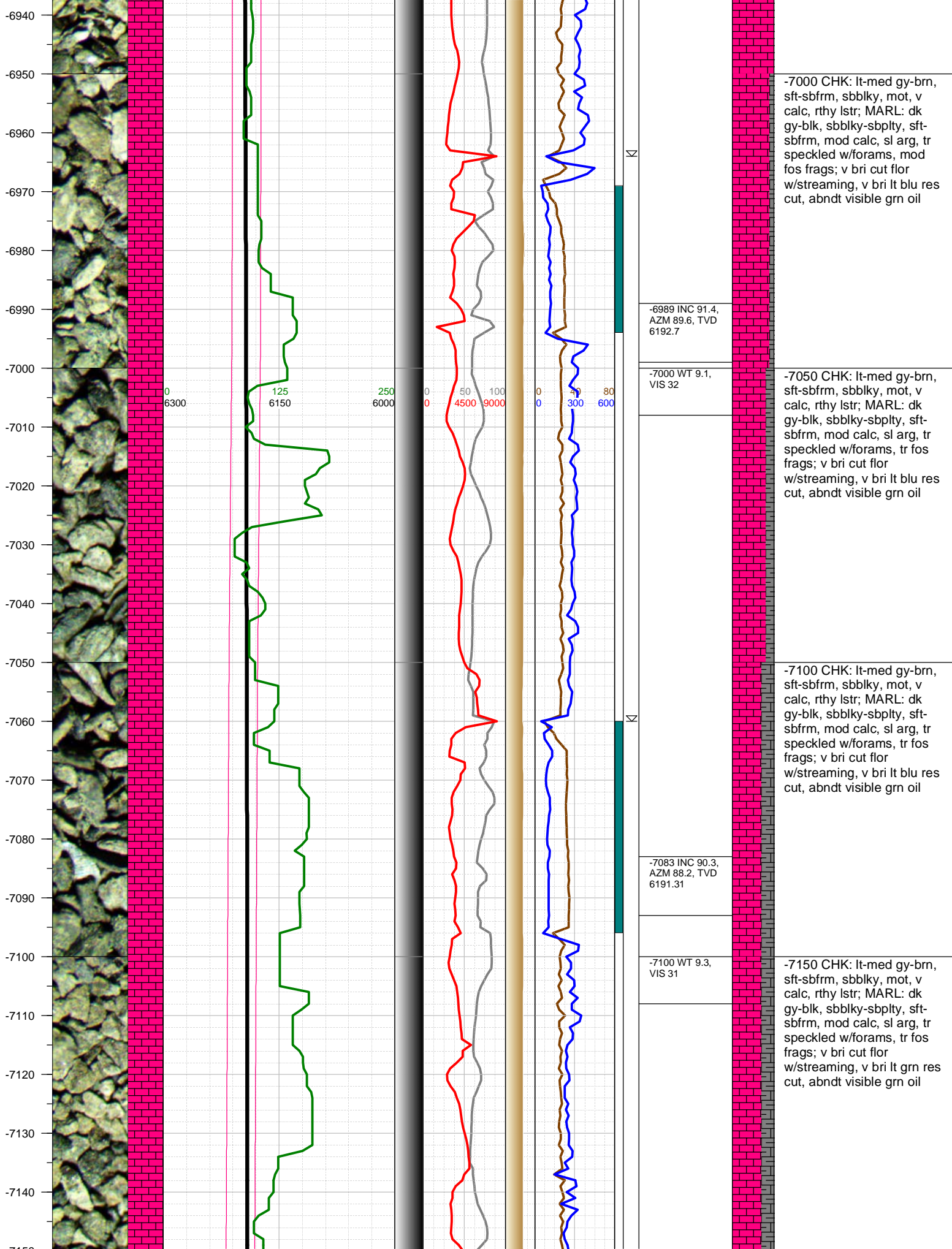
-6800 CHK: lt-med gy-brn,  
sft-sbfrm, sbbly, mot, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbbly-sbply, sft-  
sbfrm, mod calc, sl arg, tr  
speckled w/forams, mod  
fos frags; tr bent; v bri cut  
flor w/streaming, v bri lt blu  
res cut, abndt visible grn oil

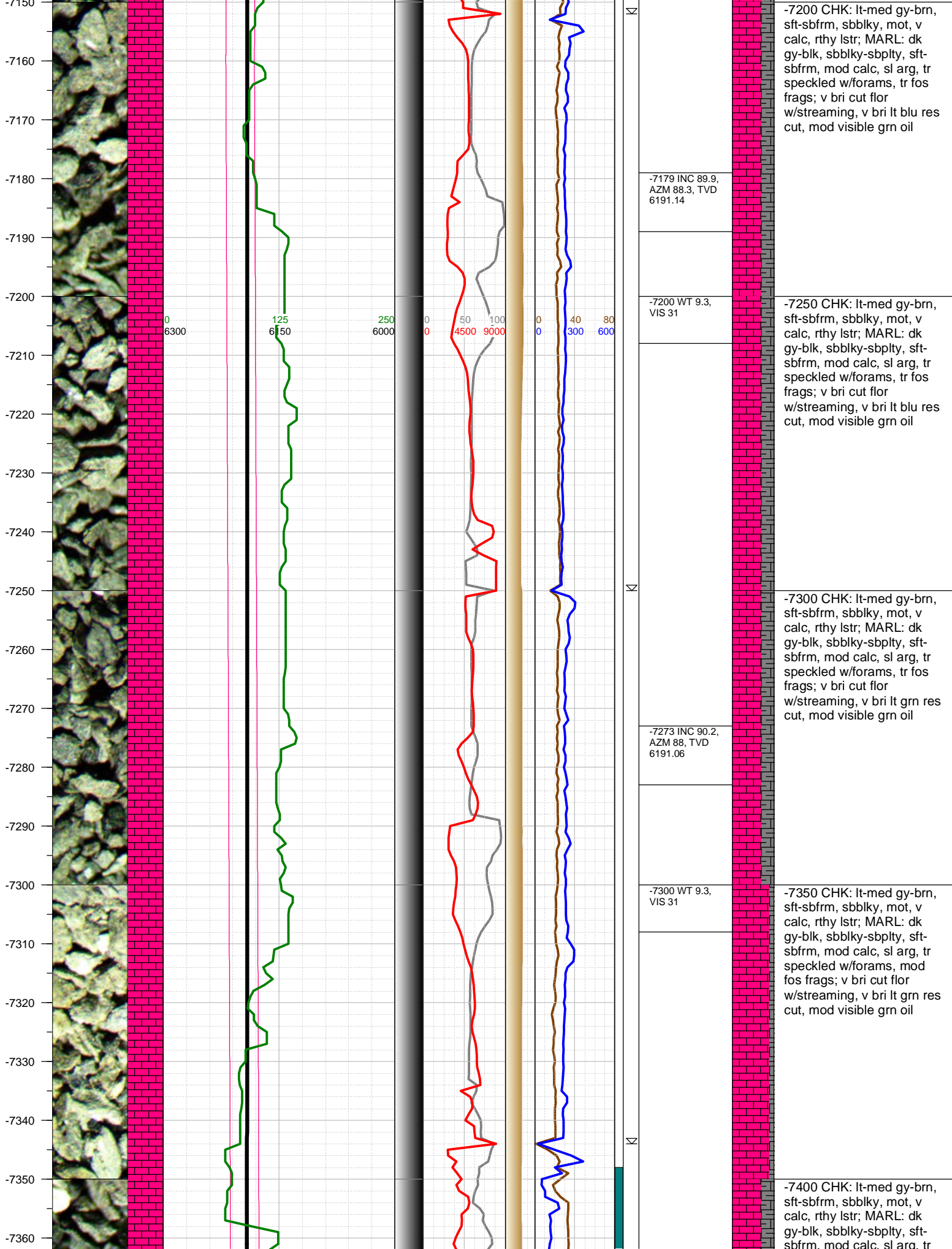
-6850 CHK: lt-med gy-brn,  
sft-sbfrm, sbbly, mot, v  
calc, rthy lstr; tr speckled  
w/forams, mod fos frags; v  
bri cut flor w/streaming, v  
bri lt blu res cut, abndt  
visible grn oil

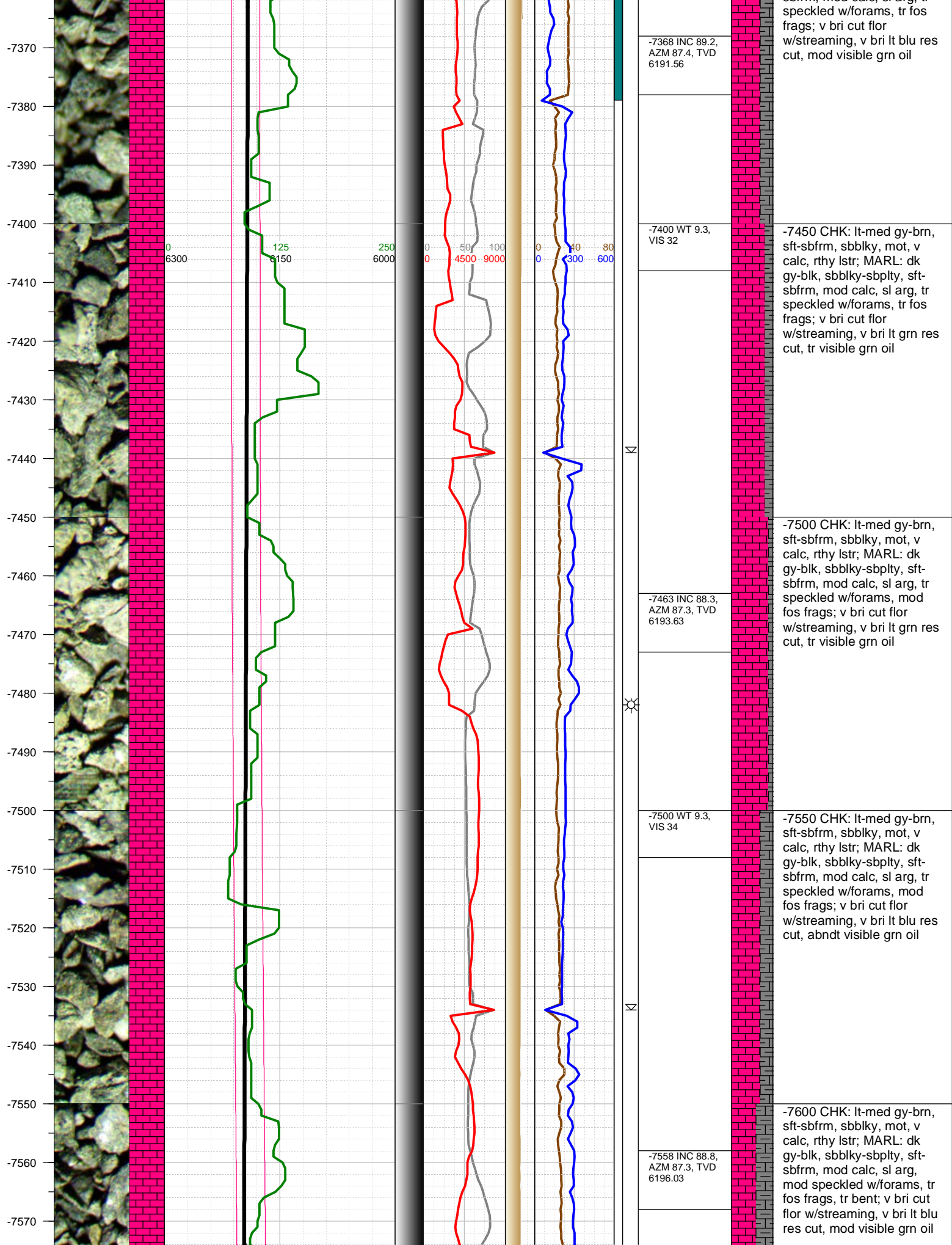
-6900 CHK: lt-med gy-brn,  
sft-sbfrm, sbbly, mot, v  
calc, rthy lstr; tr speckled  
w/forams, mod fos frags; v  
bri cut flor w/streaming, v  
bri lt blu res cut, abndt  
visible grn oil

-6950 CHK: lt-med gy-brn,  
sft-sbfrm, sbbly, mot, v  
calc, rthy lstr; tr speckled  
w/forams, mod fos frags; v  
bri cut flor w/streaming, v  
bri lt blu res cut, abndt  
visible grn oil

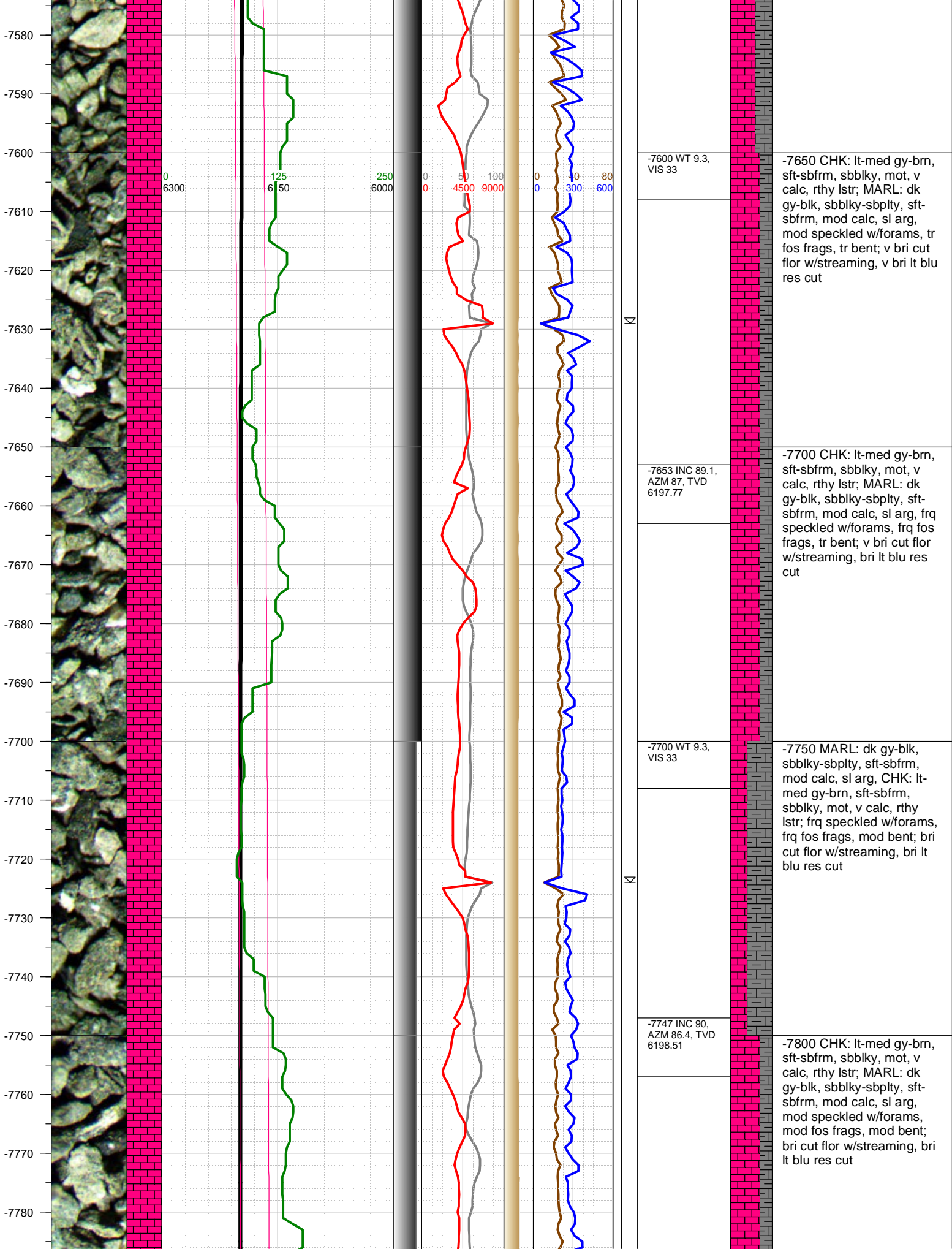




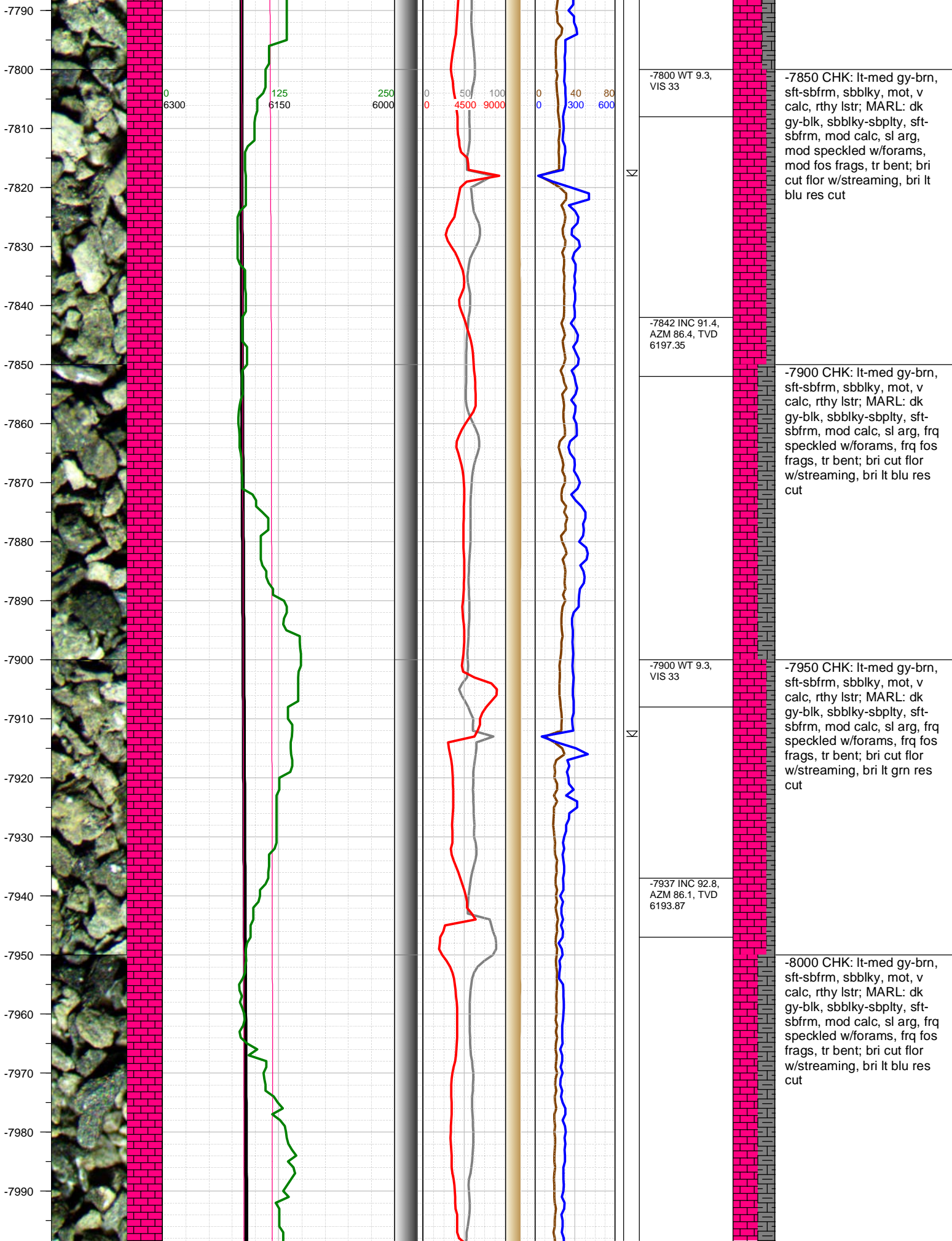


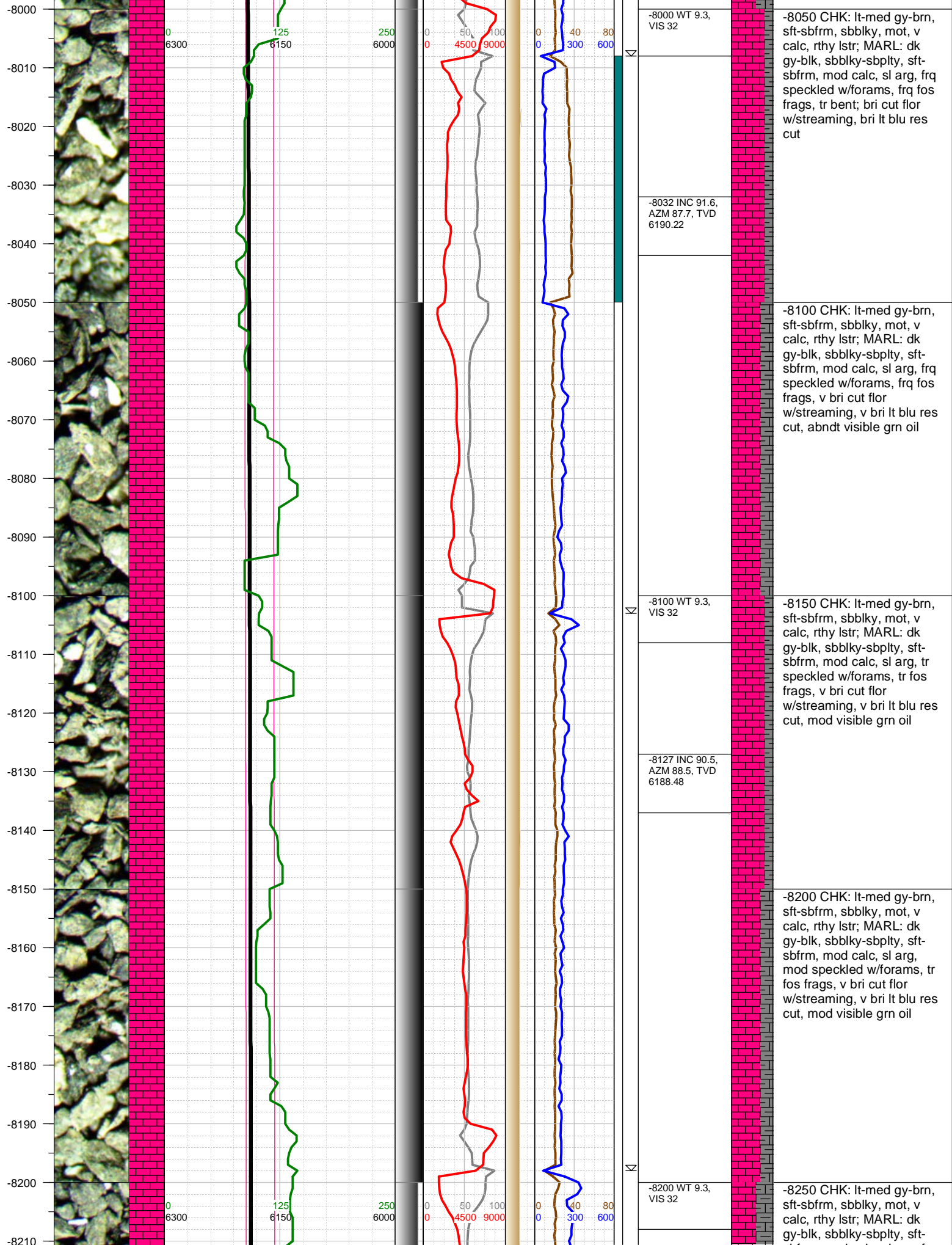


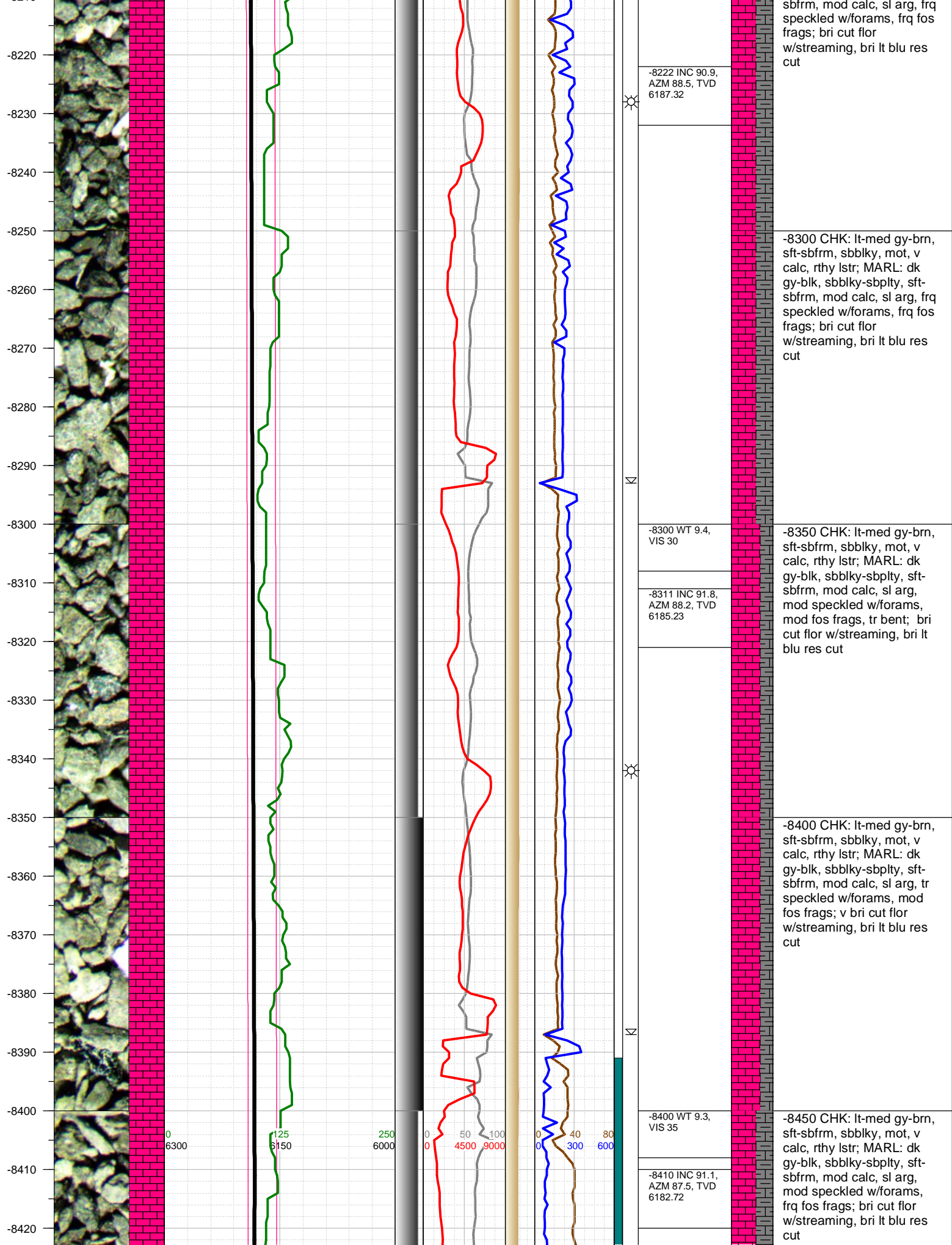




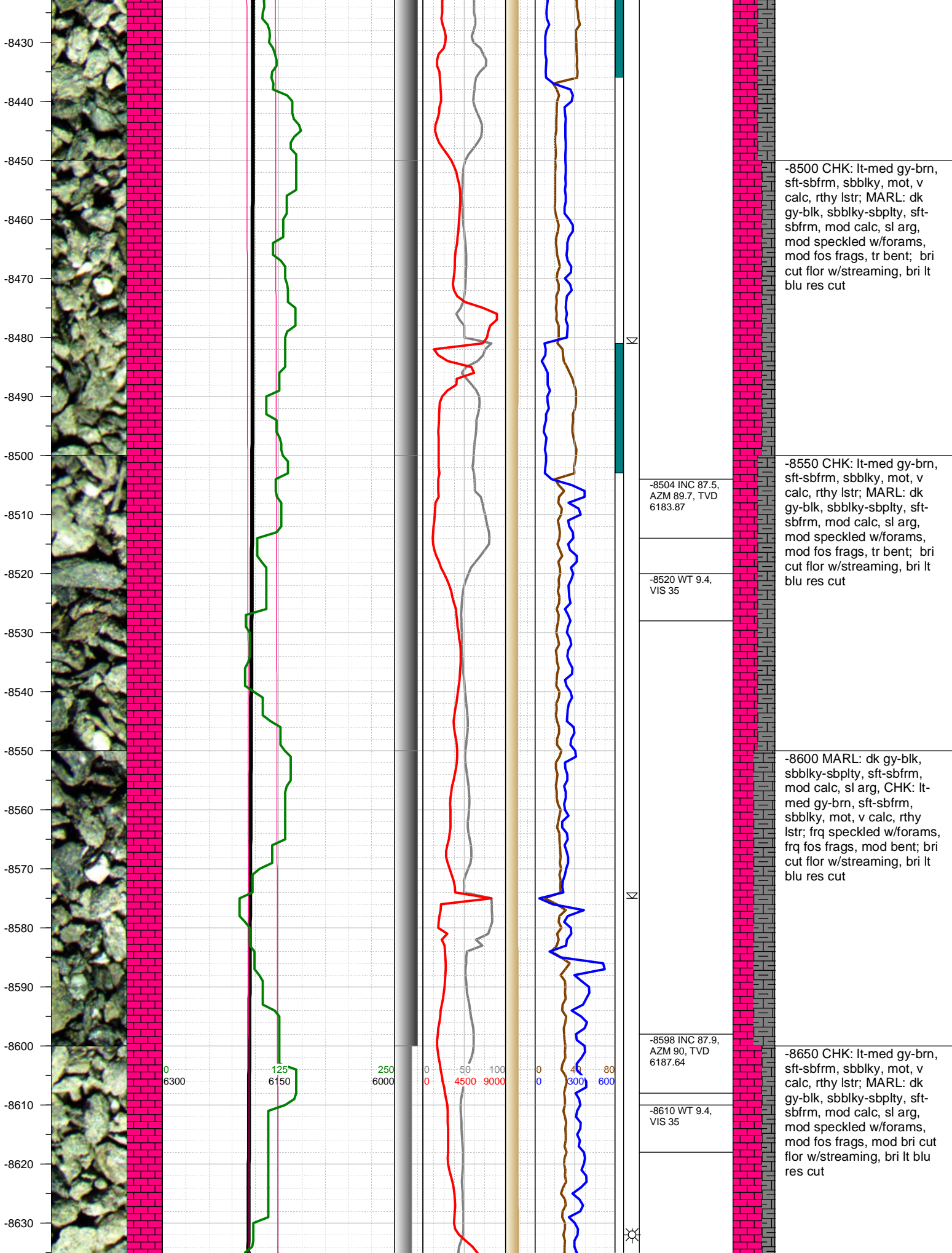


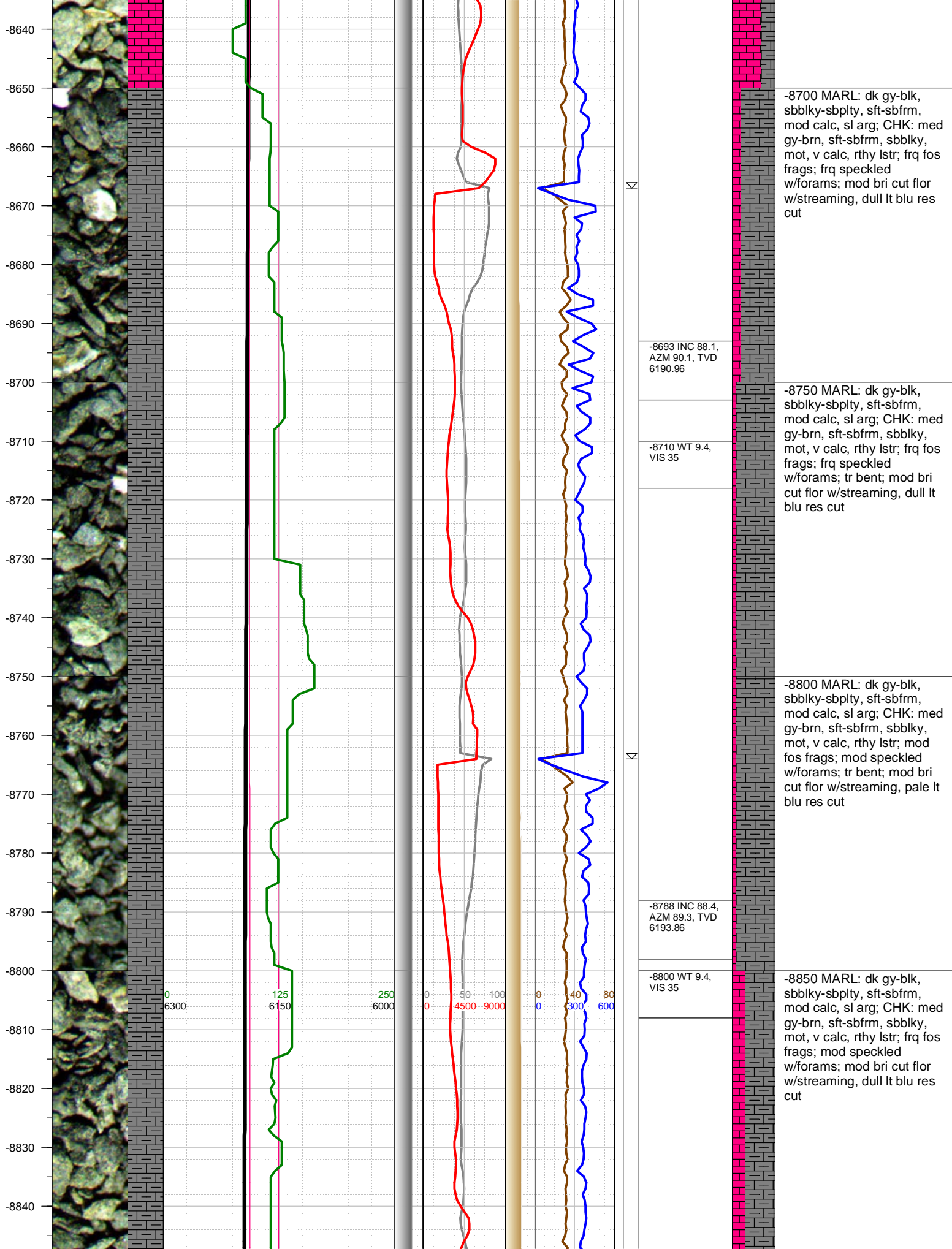


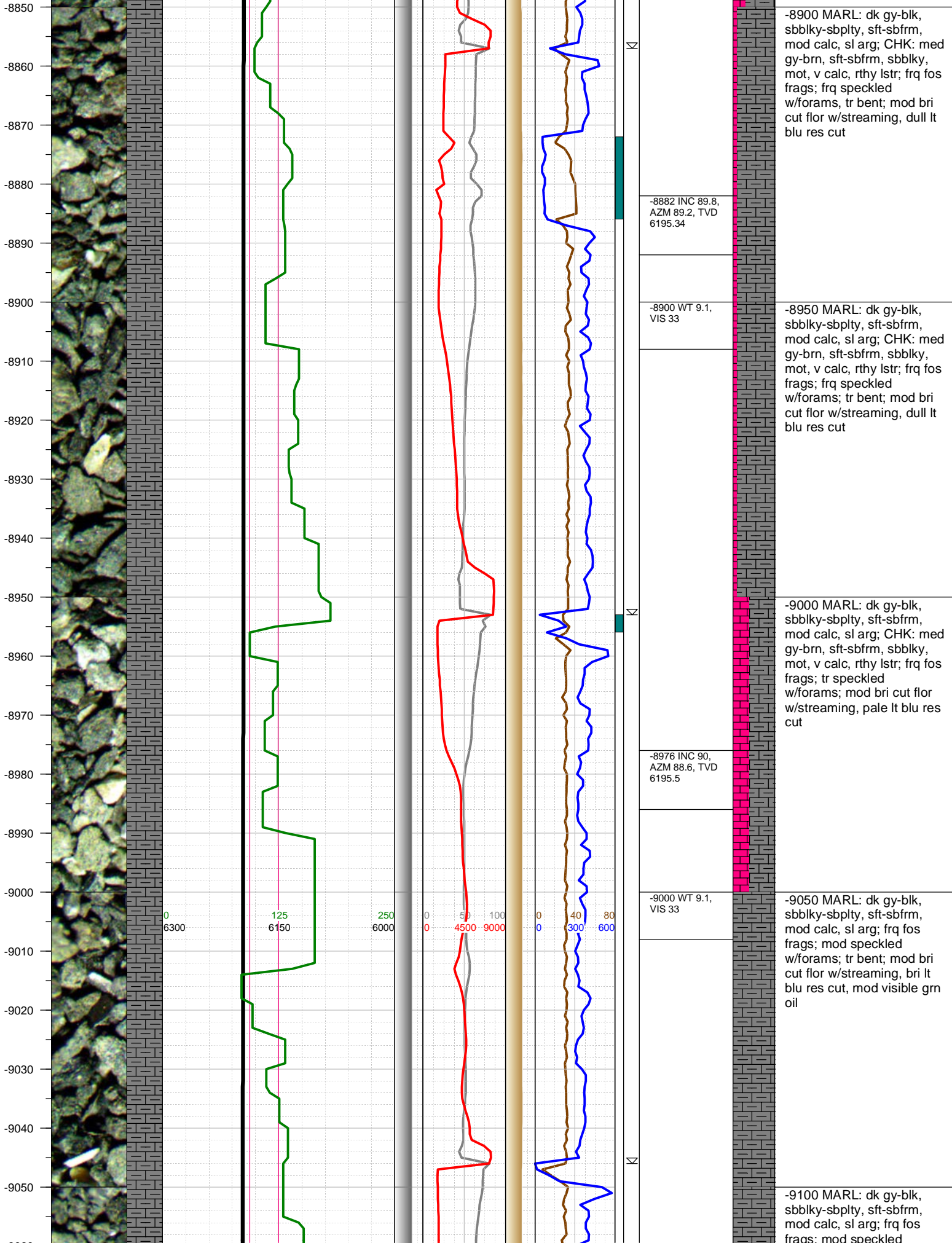




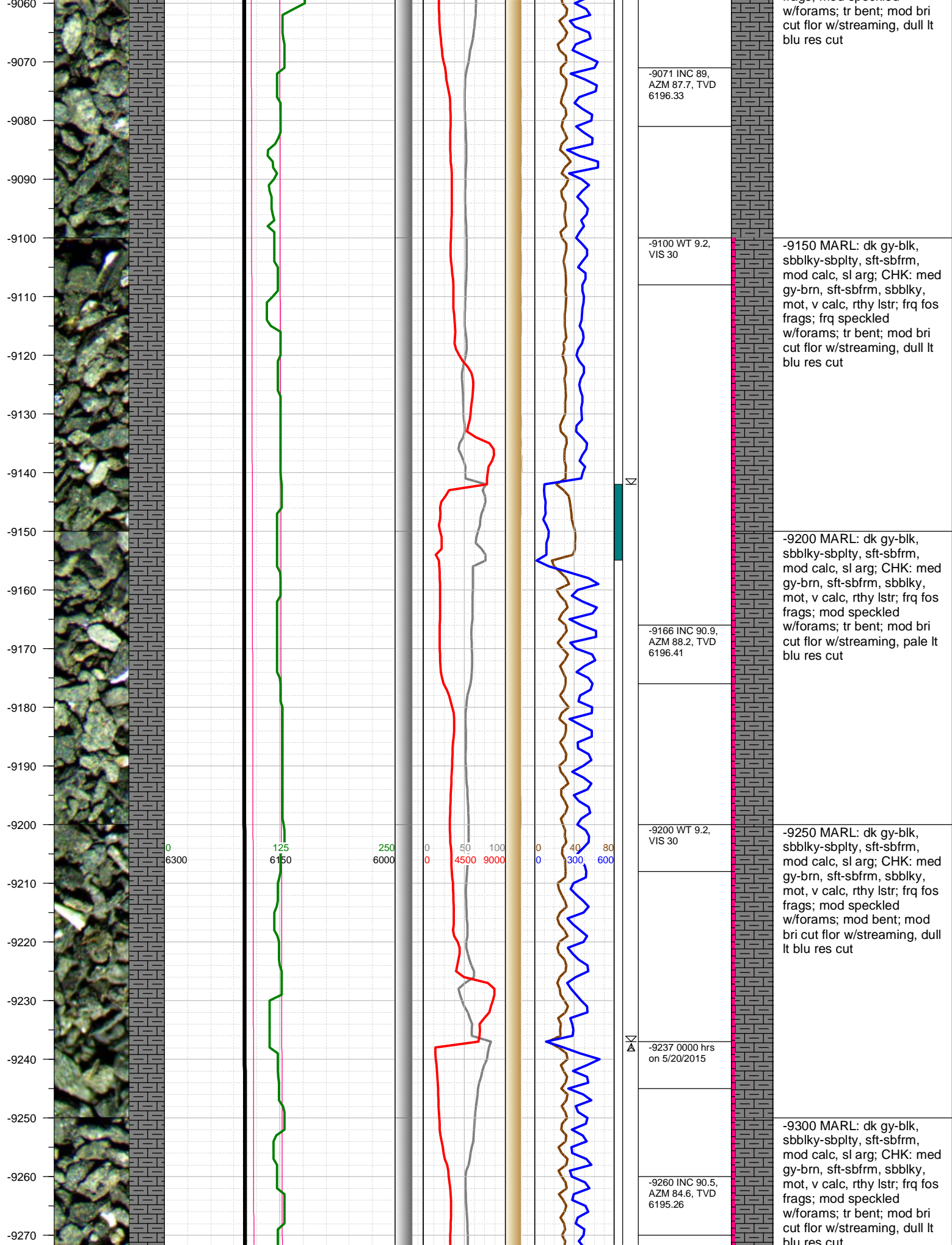




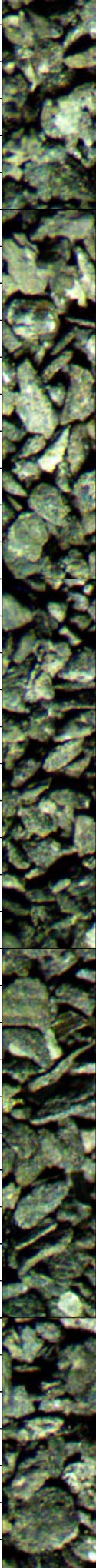








-9280  
-9290  
-9300  
-9310  
-9320  
-9330  
-9340  
-9350  
-9360  
-9370  
-9380  
-9390  
-9400  
-9410  
-9420  
-9430  
-9440  
-9450  
-9460  
-9470  
-9480



0  
6300

125  
6150

250  
6000

0 50 100  
0 4500 9000

0 50 80  
0 300 600



-9300 WT 9.2,  
VIS 30



-9354 INC 91.1,  
AZM 82.4, TVD  
6193.95

-9400 WT 9.2,  
VIS 31



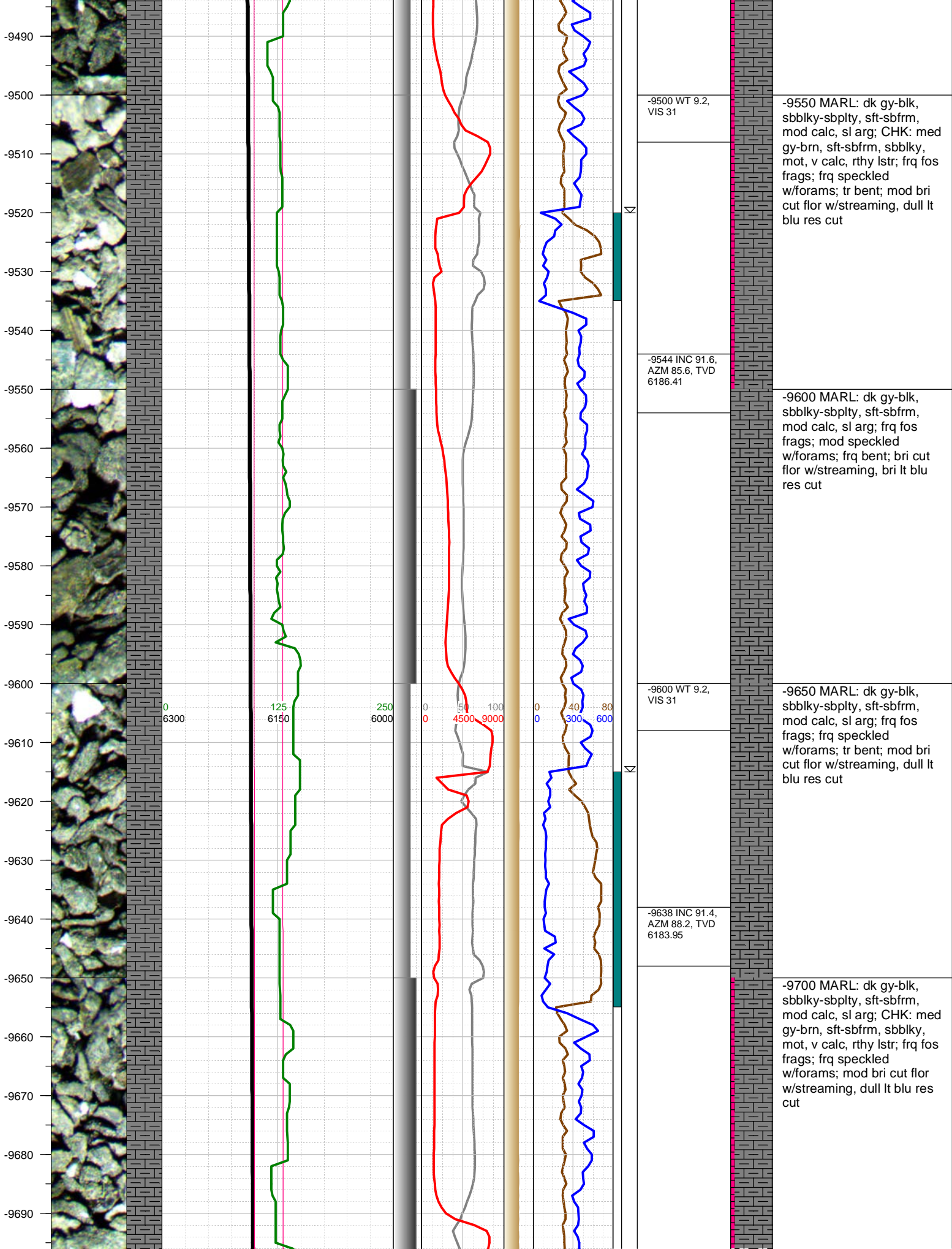
-9449 INC 93.2,  
AZM 83.9, TVD  
6190.39

-9350 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: med  
gy-brn, sft-sbfrm, sbbly,  
mot, v calc, rthy lstr; frq fos  
frags; mod speckled  
w/forams; tr bent; mod bri  
cut flr w/streaming, dull lt  
blu res cut

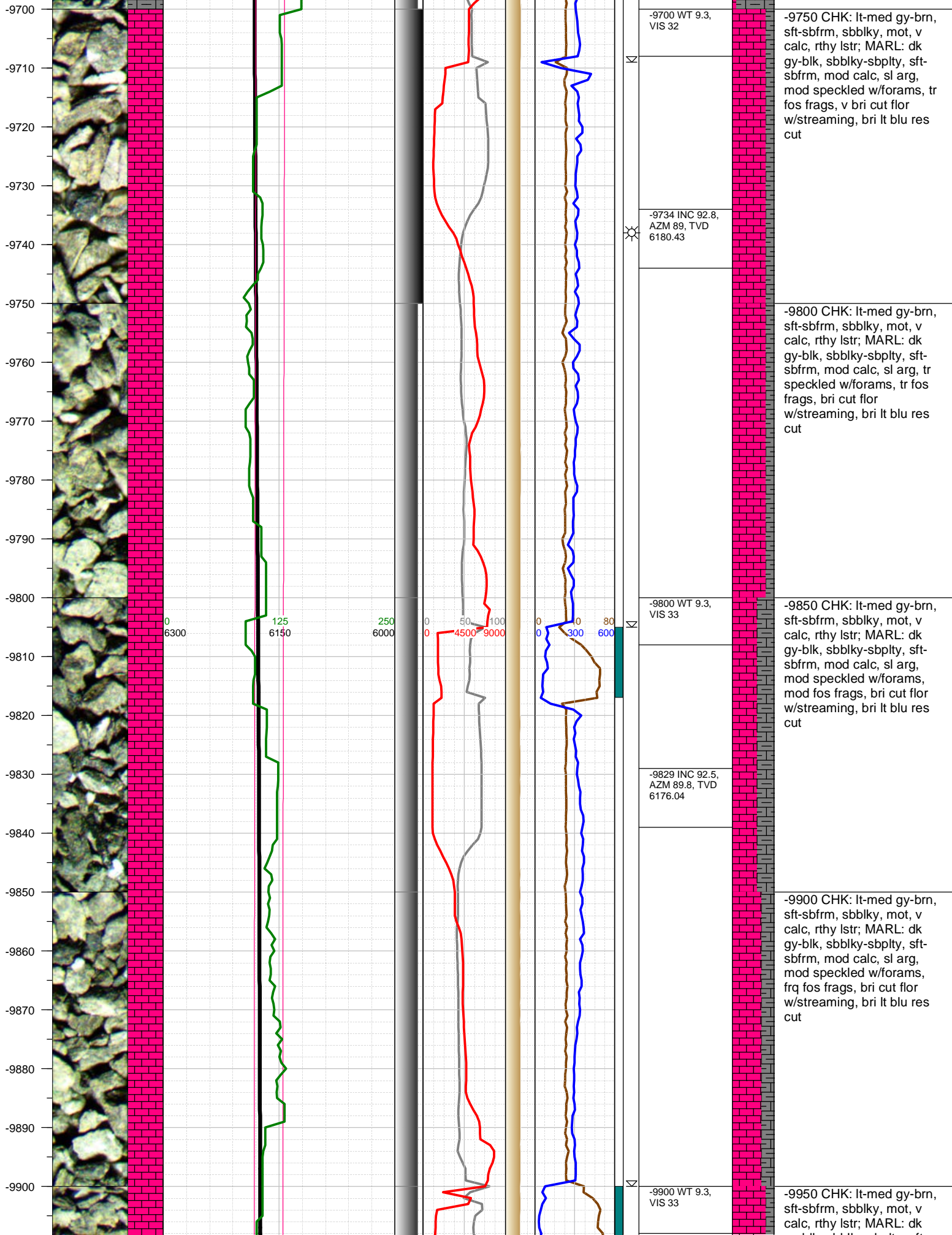
-9400 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: med  
gy-brn, sft-sbfrm, sbbly,  
mot, v calc, rthy lstr; mod  
fos frags; tr speckled  
w/forams; tr bent; mod bri  
cut flr w/streaming, dull lt  
blu res cut

-9450 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; frq fos  
frags; mod speckled  
w/forams; mod bent; mod  
bri cut flr w/streaming,  
pale lt blu res cut

-9500 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: med  
gy-brn, sft-sbfrm, sbbly,  
mot, v calc, rthy lstr; frq fos  
frags; mod speckled  
w/forams; mod bent; mod  
bri cut flr w/streaming,  
pale lt blu res cut







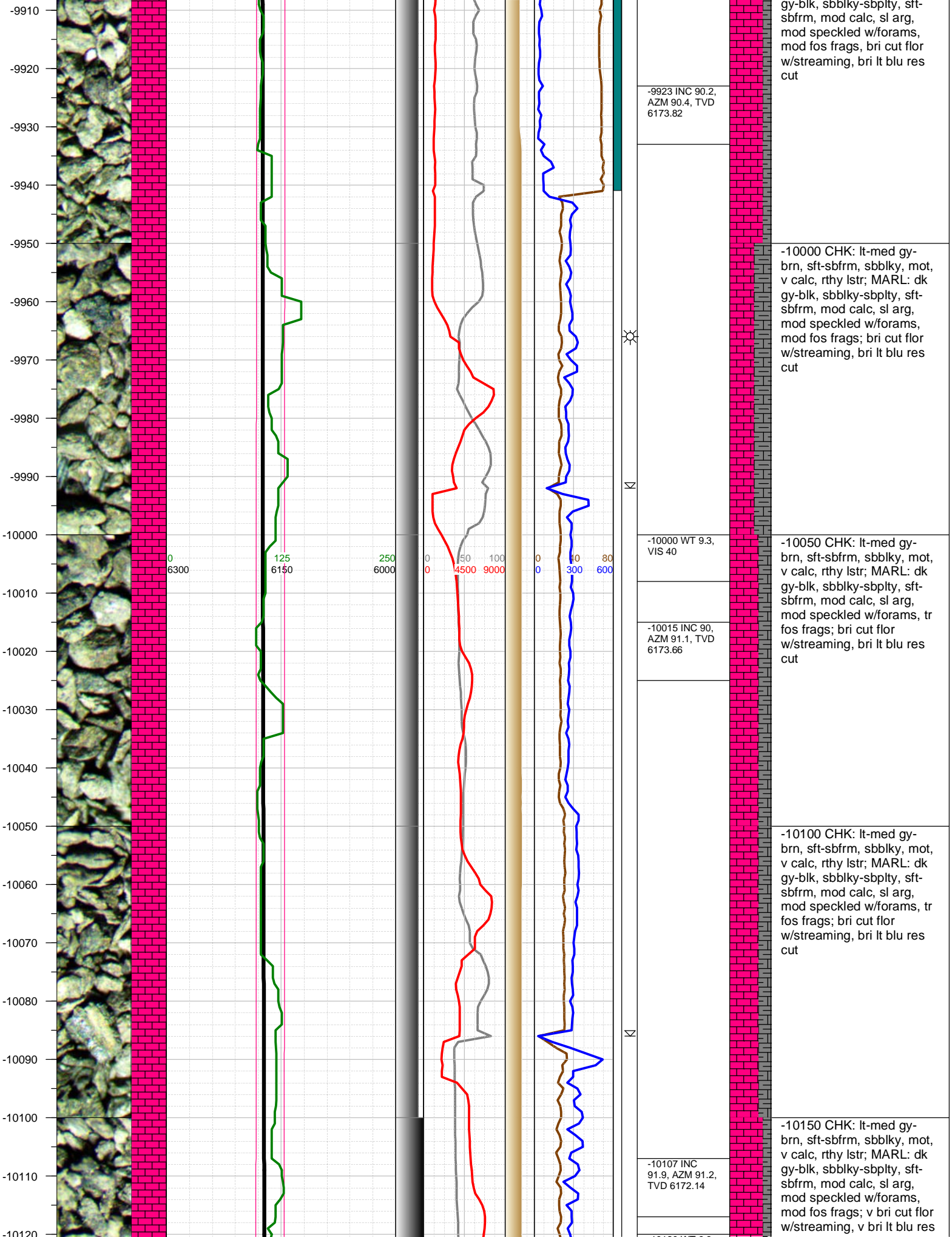
-9750 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, mod speckled w/forams, tr fos frags, v bri cut flor w/streaming, bri lt blu res cut

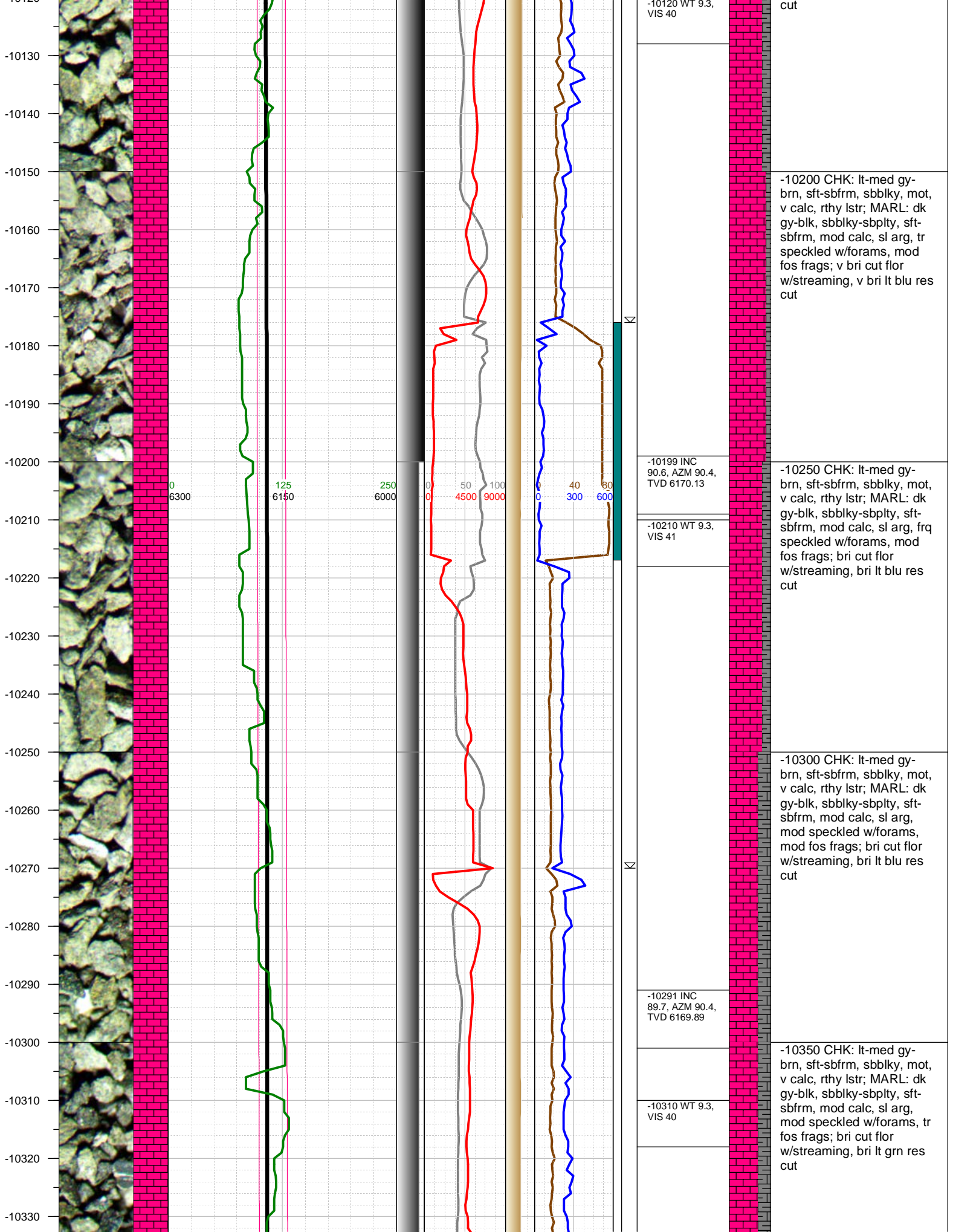
-9800 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flor w/streaming, bri lt blu res cut

-9850 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, mod speckled w/forams, mod fos frags, bri cut flor w/streaming, bri lt blu res cut

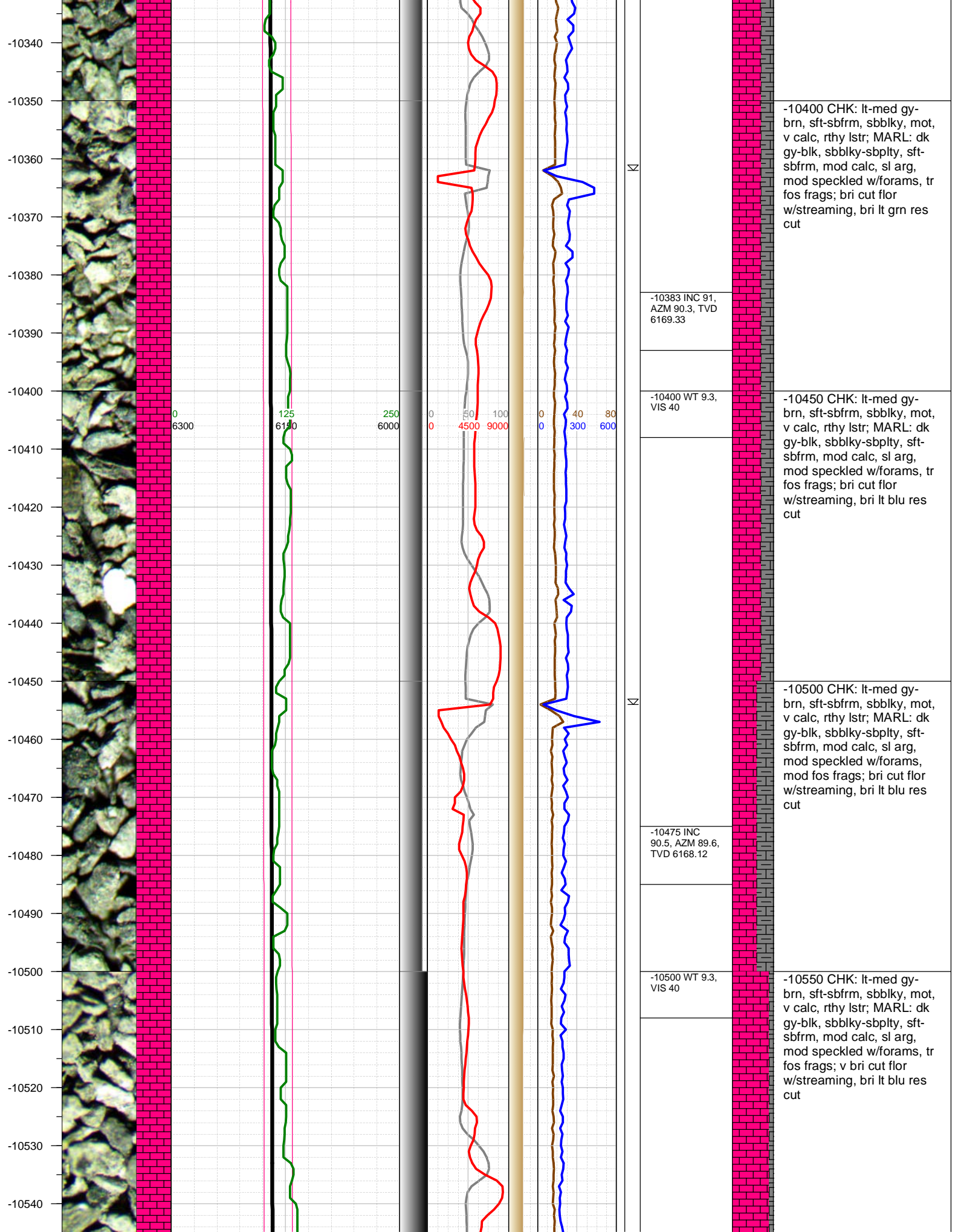
-9900 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, mod speckled w/forams, frq fos frags, bri cut flor w/streaming, bri lt blu res cut

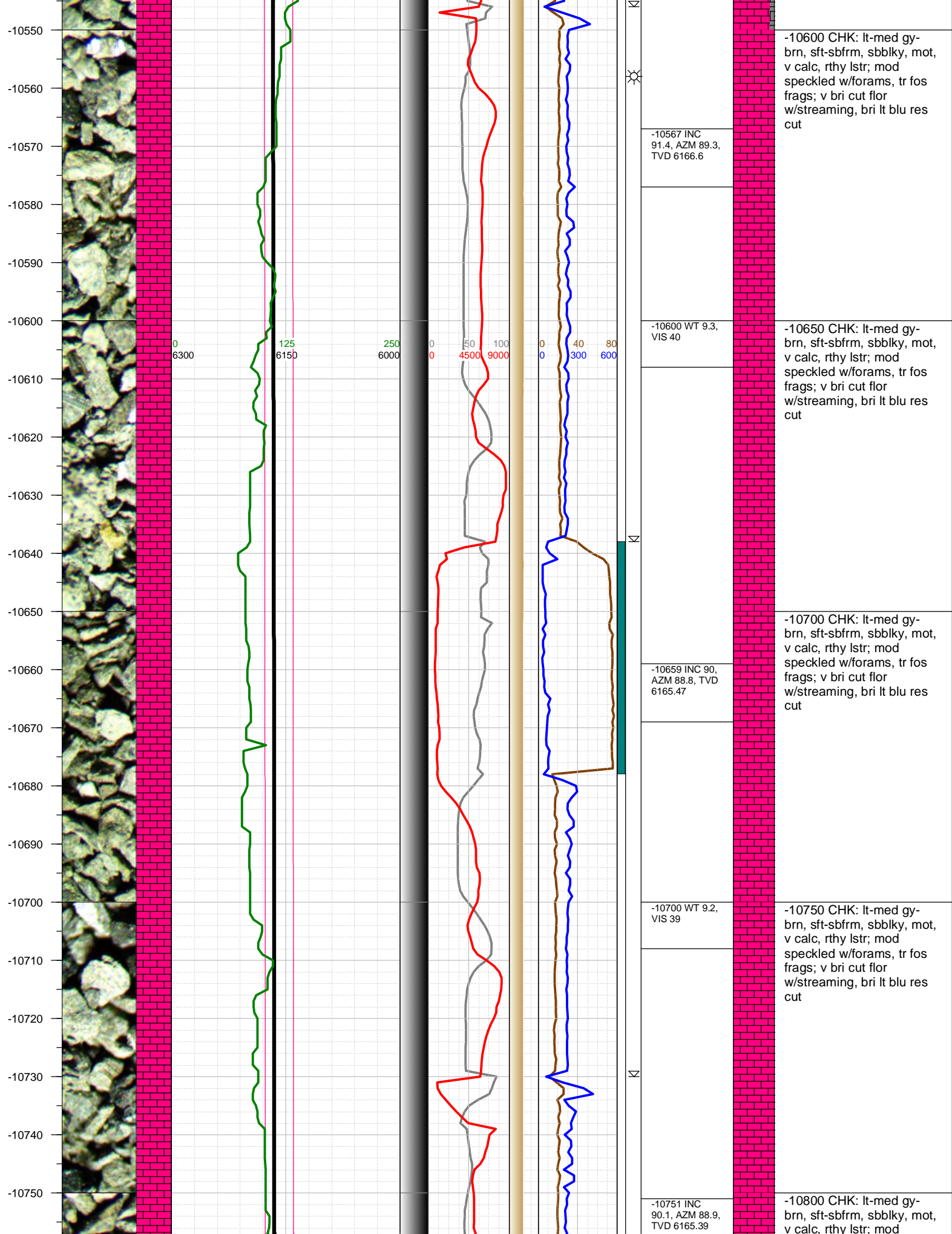
-9950 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk

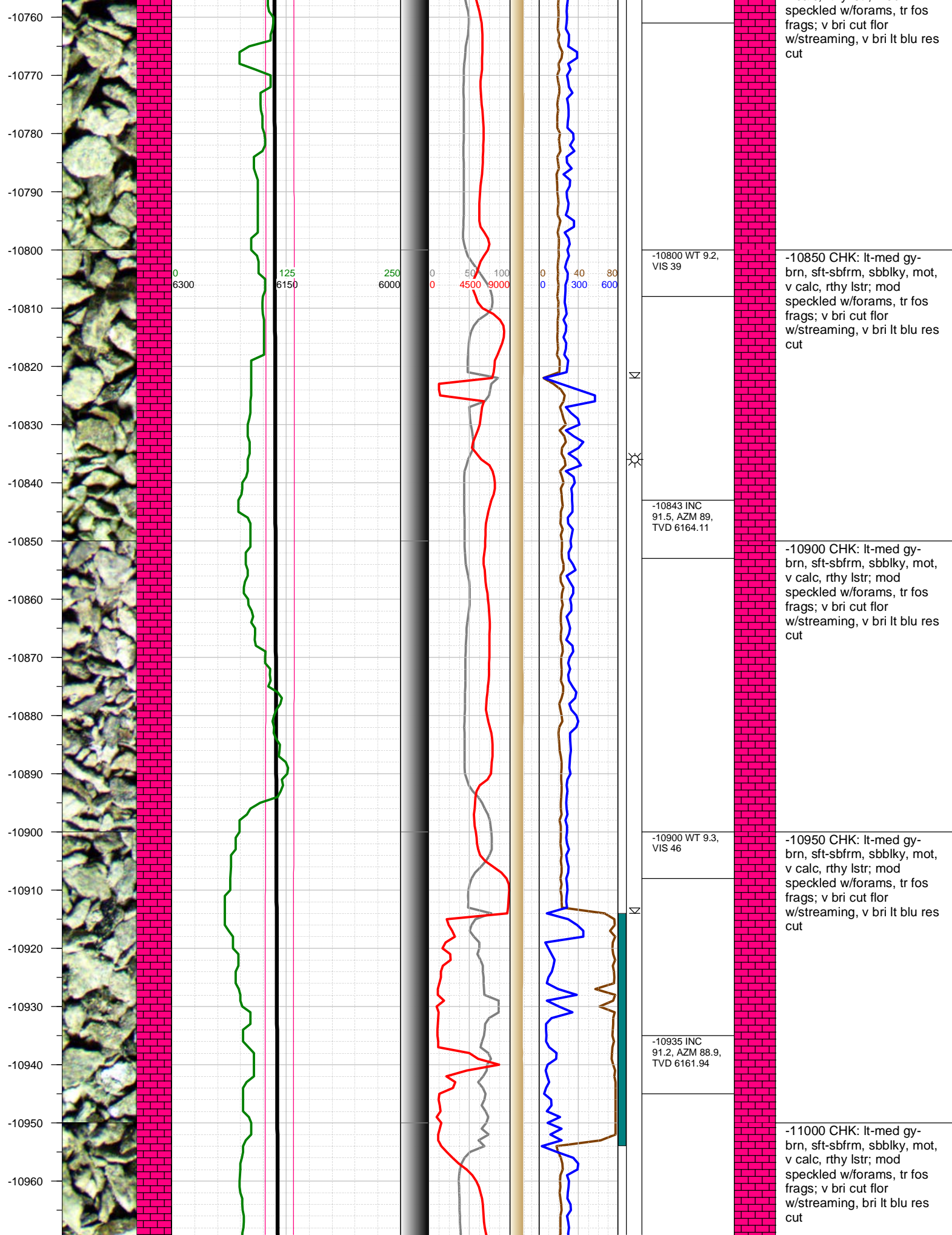




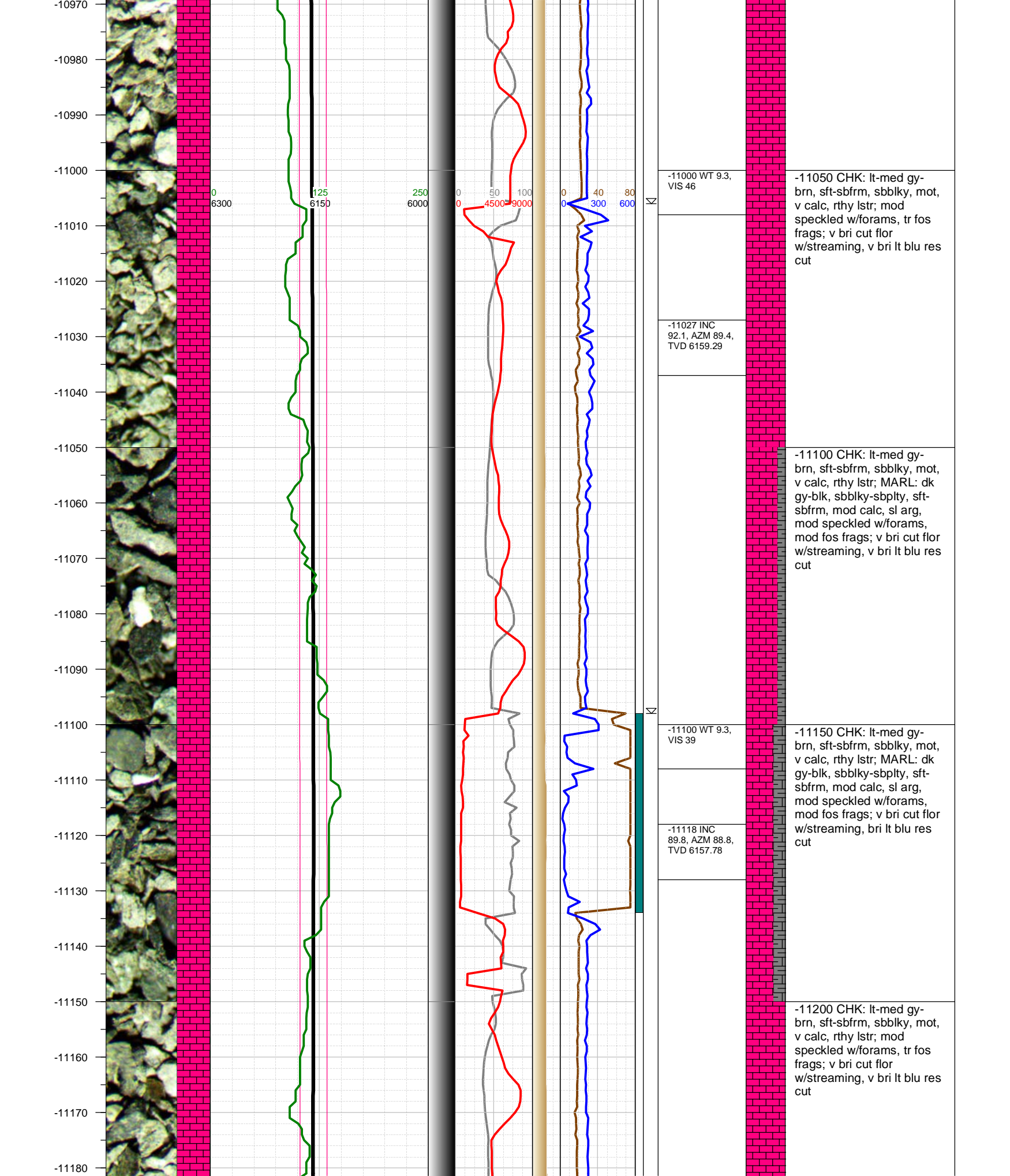




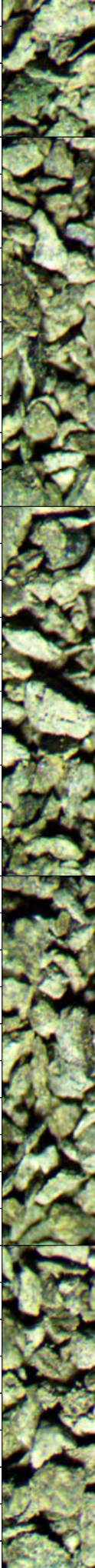








-11190  
-11200  
-11210  
-11220  
-11230  
-11240  
-11250  
-11260  
-11270  
-11280  
-11290  
-11300  
-11310  
-11320  
-11330  
-11340  
-11350  
-11360  
-11370  
-11380  
-11390



0  
6300

125  
6150

250  
6000

0

50

100

0

40

80



-11188 0000 hrs  
on 5/21/2015

-11200 WT 9.3,  
VIS 39

-11210 INC  
88.7, AZM 89.3,  
TVD 6158.99



-11301 INC  
89.6, AZM 89.4,  
TVD 6160.34

-11320 WT 9.3,  
VIS 39



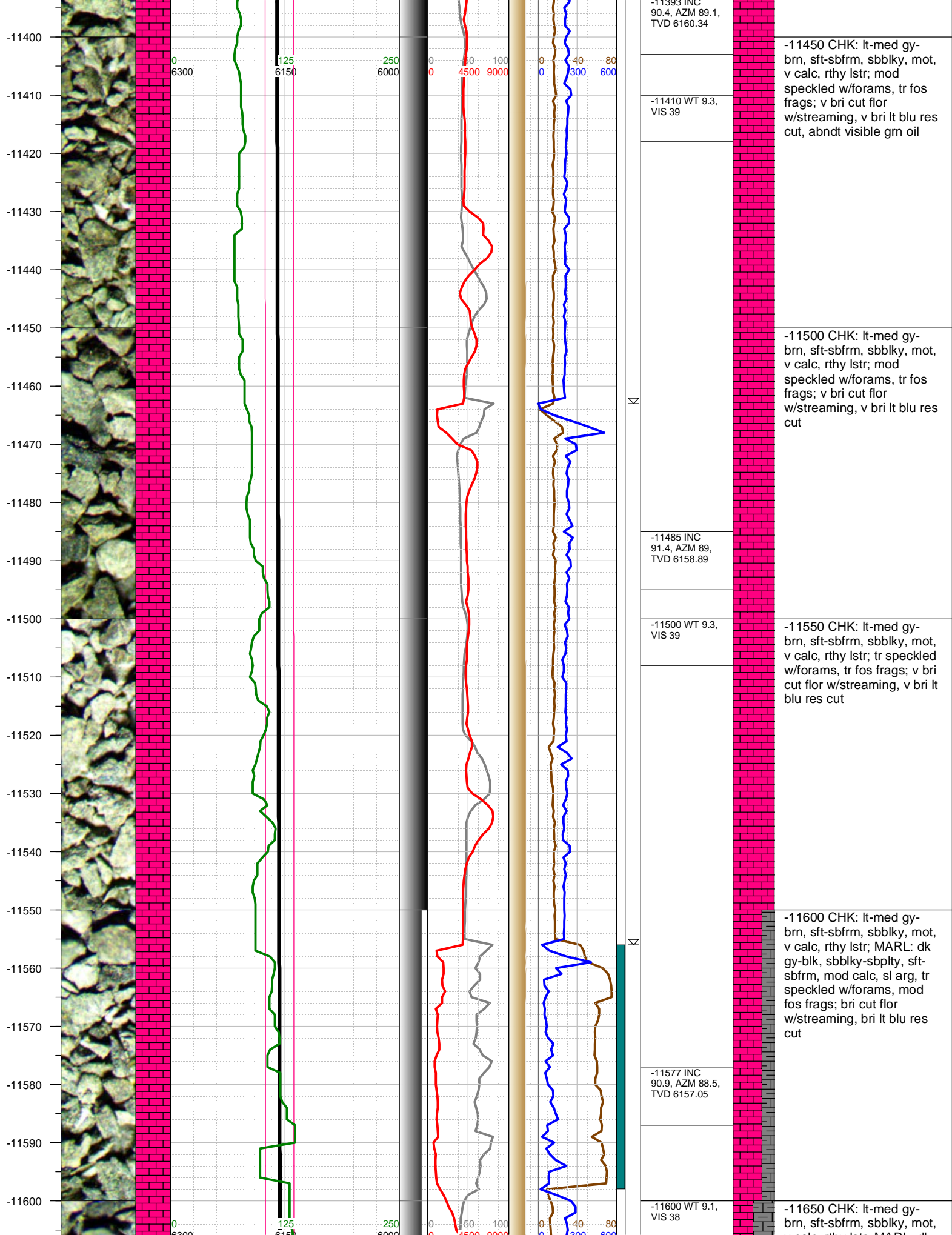
-11390 INC

-11250 CHK: lt-med gy-  
brn, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; mod  
speckled w/forams, tr fos  
frags; v bri cut flr  
w/streaming, v bri lt blu res  
cut

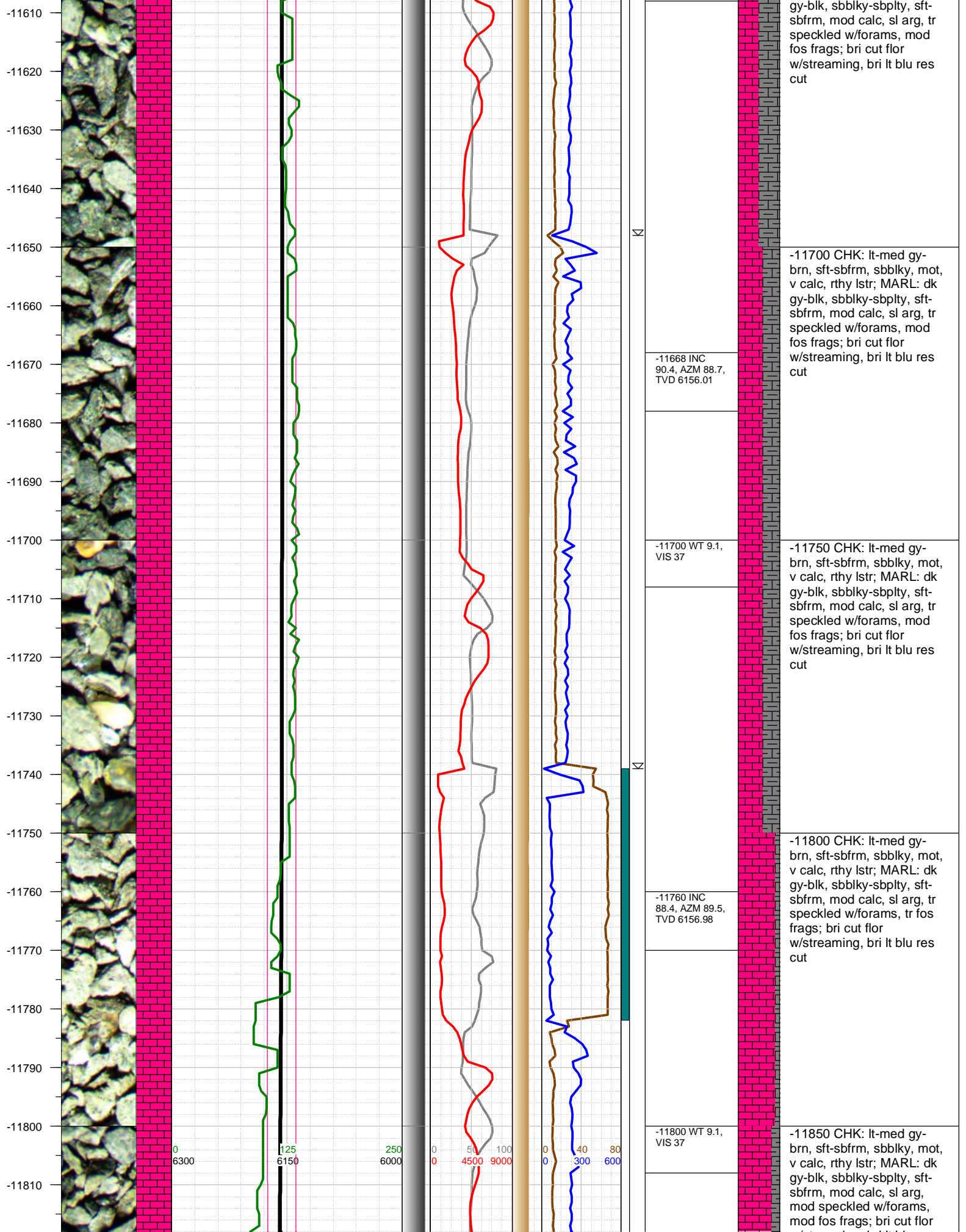
-11300 CHK: lt-med gy-  
brn, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; mod  
speckled w/forams, tr fos  
frags; v bri cut flr  
w/streaming, v bri lt blu res  
cut

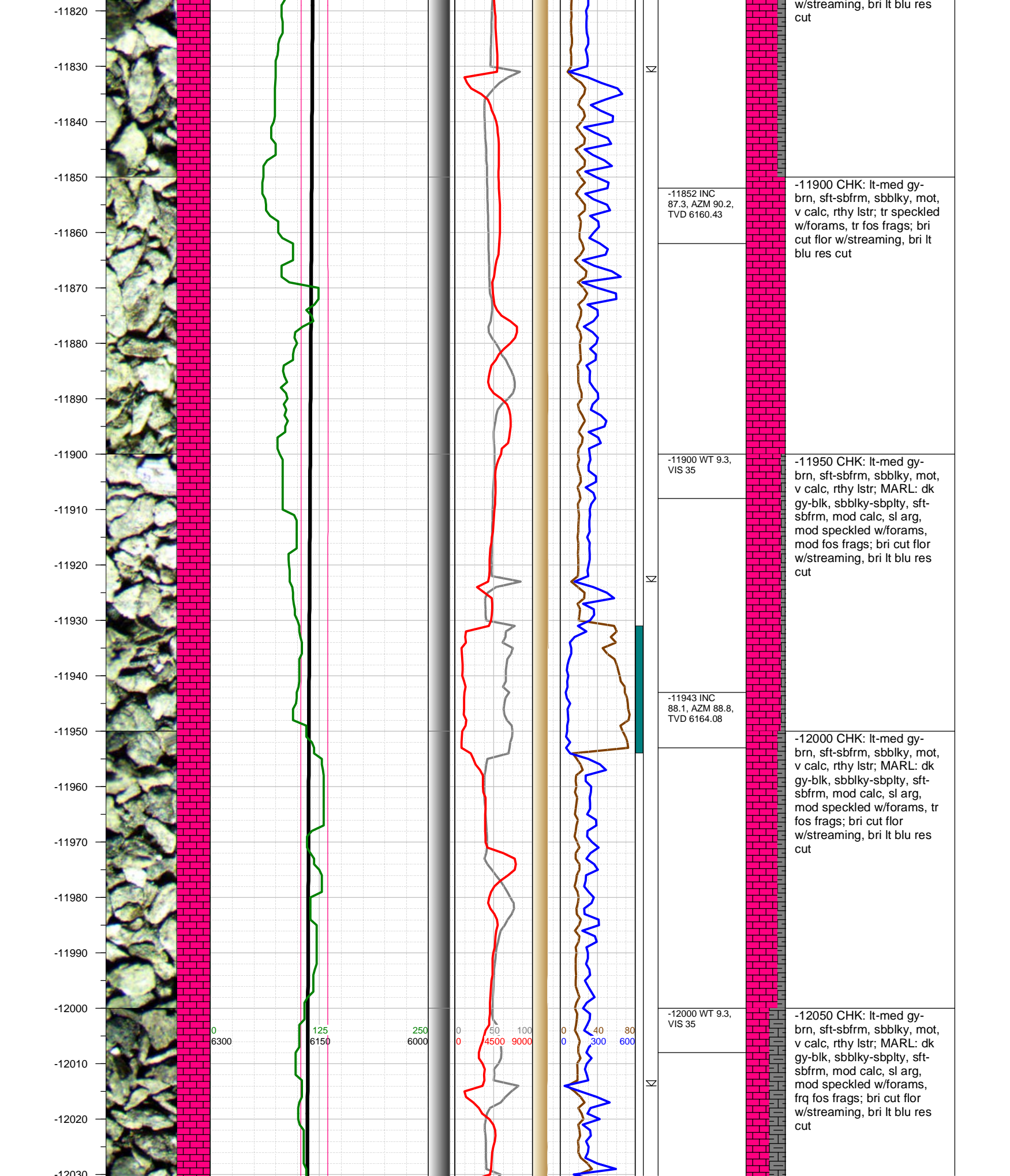
-11350 CHK: lt-med gy-  
brn, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; mod  
speckled w/forams, tr fos  
frags; v bri cut flr  
w/streaming, v bri lt blu res  
cut, abndt visible grn oil

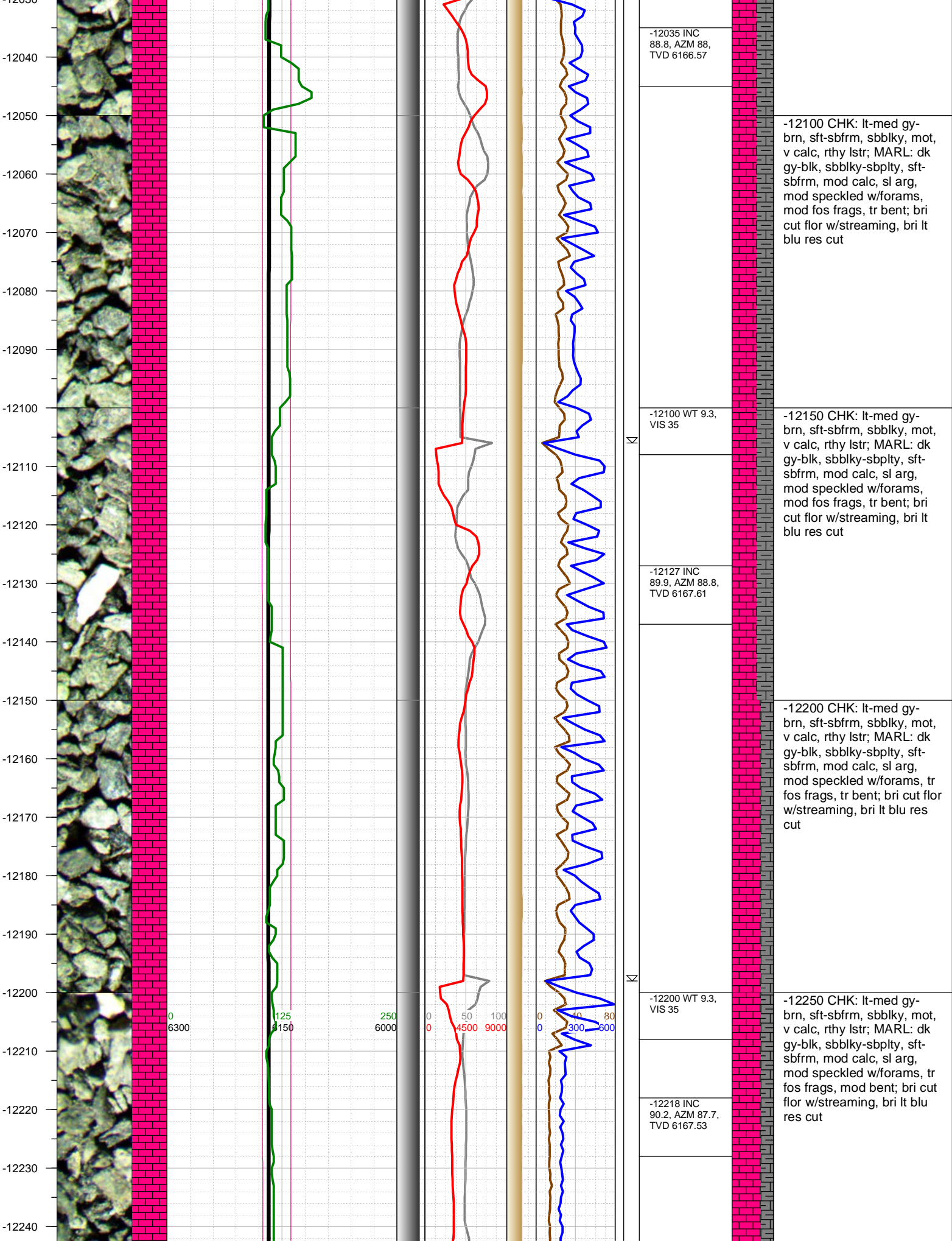
-11400 CHK: lt-med gy-  
brn, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; mod  
speckled w/forams, tr fos  
frags; v bri cut flr  
w/streaming, v bri lt blu res  
cut, abndt visible grn oil











-12035 INC  
88.8, AZM 88,  
TVD 6166.57

-12100 WT 9.3,  
VIS 35

-12127 INC  
89.9, AZM 88.8,  
TVD 6167.61

-12200 WT 9.3,  
VIS 35

-12218 INC  
90.2, AZM 87.7,  
TVD 6167.53

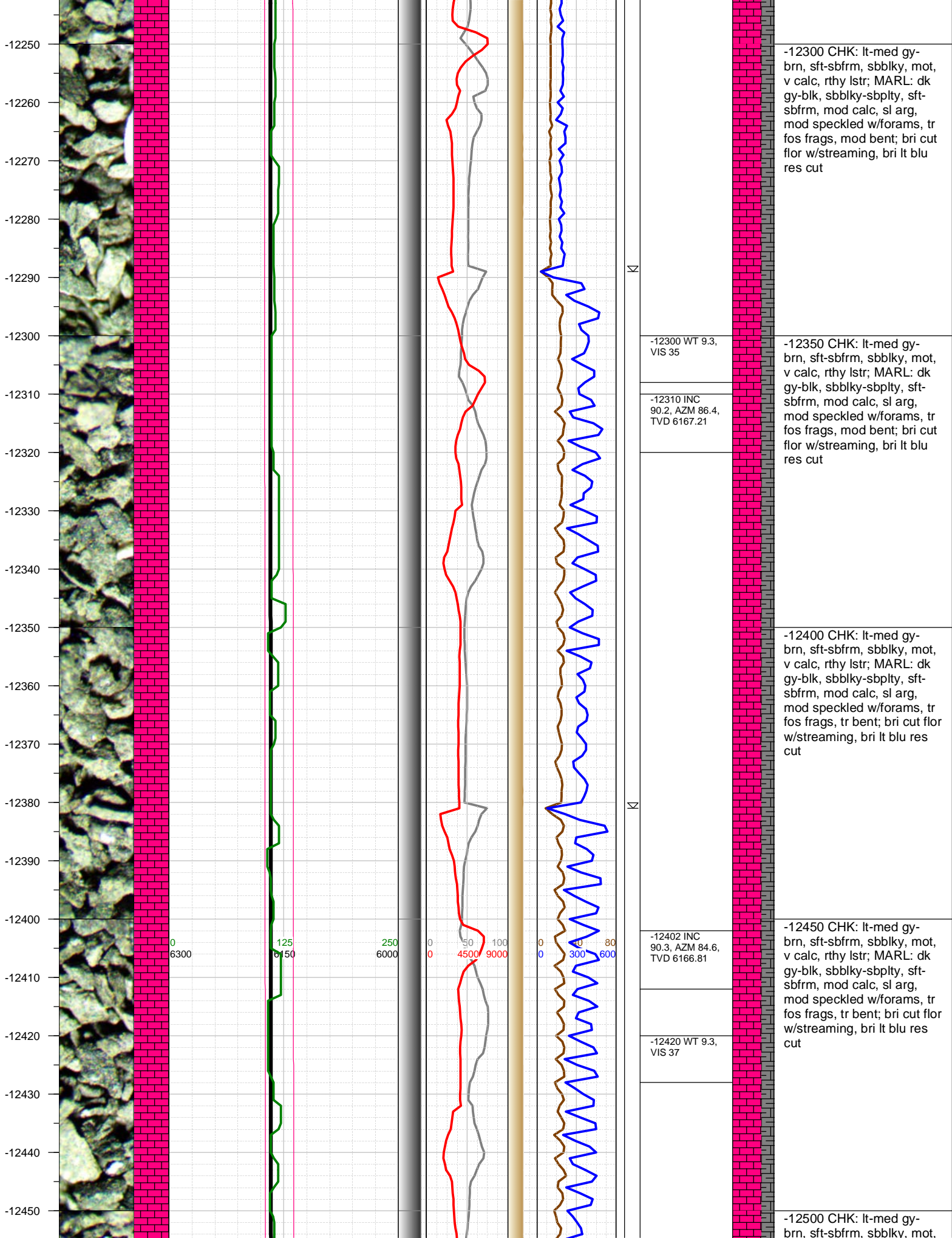
-12100 CHK: lt-med gy-  
brn, sft-sbfrm, sbblky, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbblky-sbplty, sft-  
sbfrm, mod calc, sl arg,  
mod speckled w/forams,  
mod fos frags, tr bent; bri  
cut flr w/streaming, bri lt  
blu res cut

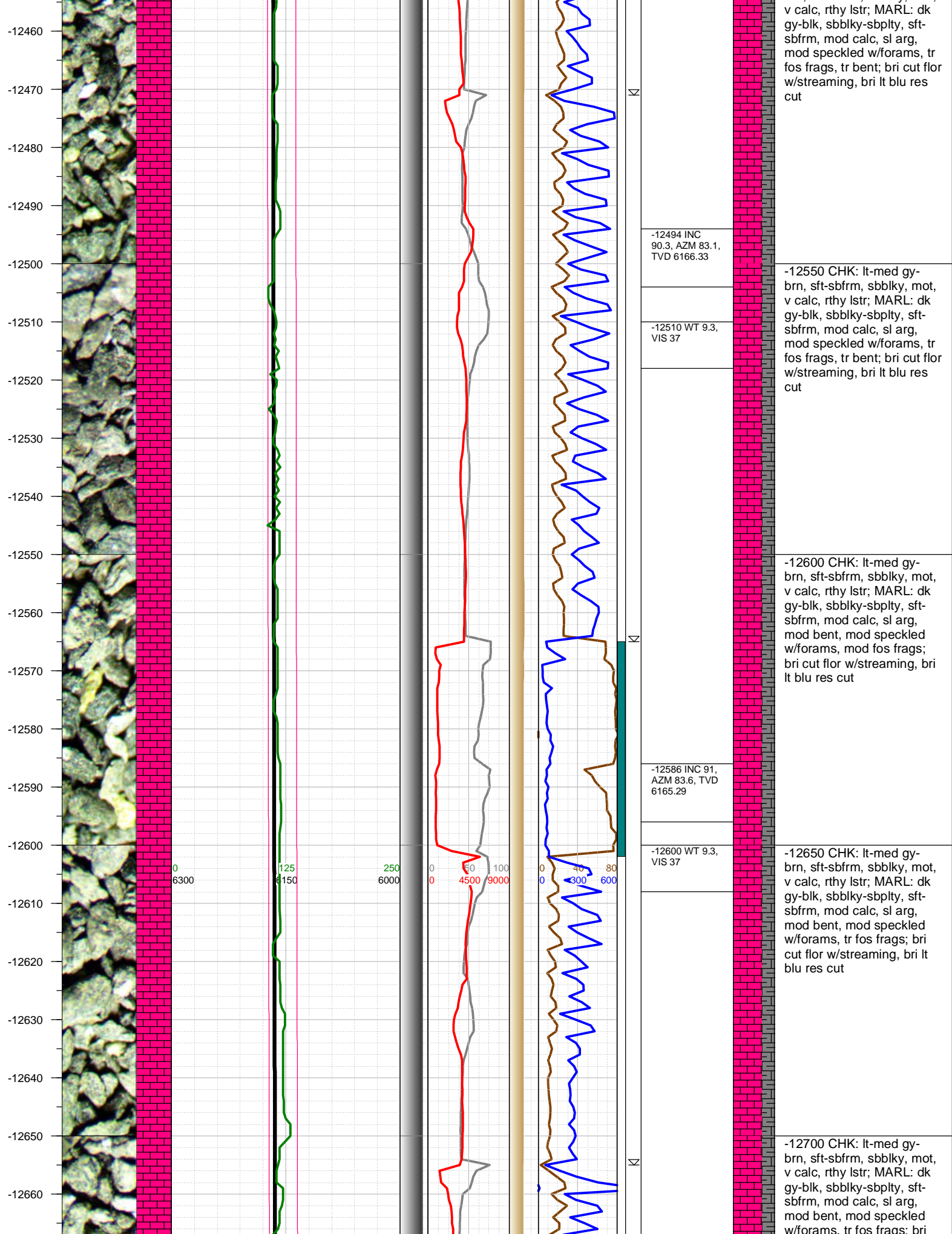
-12150 CHK: lt-med gy-  
brn, sft-sbfrm, sbblky, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbblky-sbplty, sft-  
sbfrm, mod calc, sl arg,  
mod speckled w/forams,  
mod fos frags, tr bent; bri  
cut flr w/streaming, bri lt  
blu res cut

-12200 CHK: lt-med gy-  
brn, sft-sbfrm, sbblky, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbblky-sbplty, sft-  
sbfrm, mod calc, sl arg,  
mod speckled w/forams, tr  
fos frags, tr bent; bri cut flr  
w/streaming, bri lt blu res  
cut

-12250 CHK: lt-med gy-  
brn, sft-sbfrm, sbblky, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbblky-sbplty, sft-  
sbfrm, mod calc, sl arg,  
mod speckled w/forams, tr  
fos frags, mod bent; bri cut  
flr w/streaming, bri lt blu  
res cut







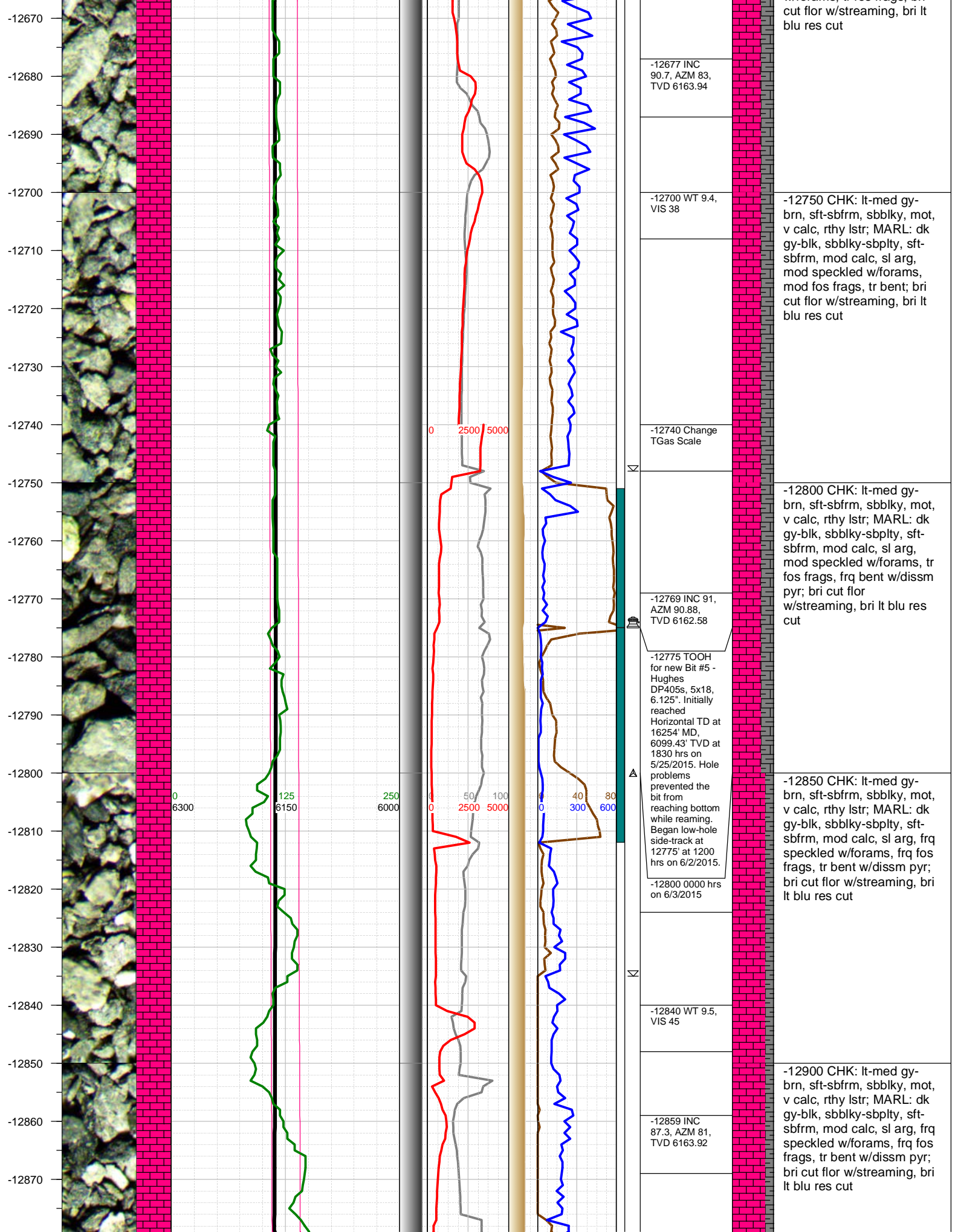
v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg, mod speckled w/forams, tr fos frags, tr bent; bri cut flor w/streaming, bri lt blu res cut

-12550 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg, mod speckled w/forams, tr fos frags, tr bent; bri cut flor w/streaming, bri lt blu res cut

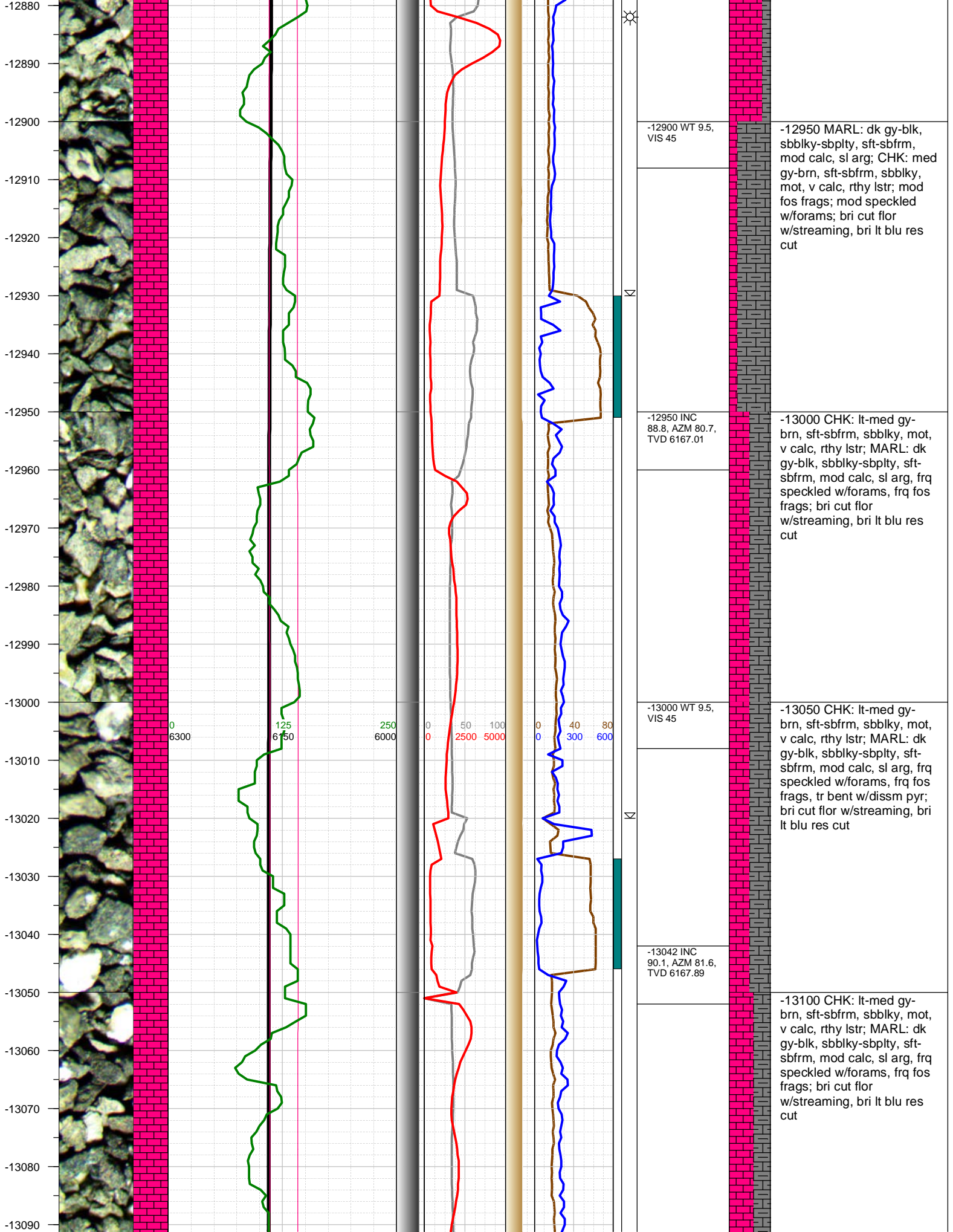
-12600 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg, mod bent, mod speckled w/forams, mod fos frags; bri cut flor w/streaming, bri lt blu res cut

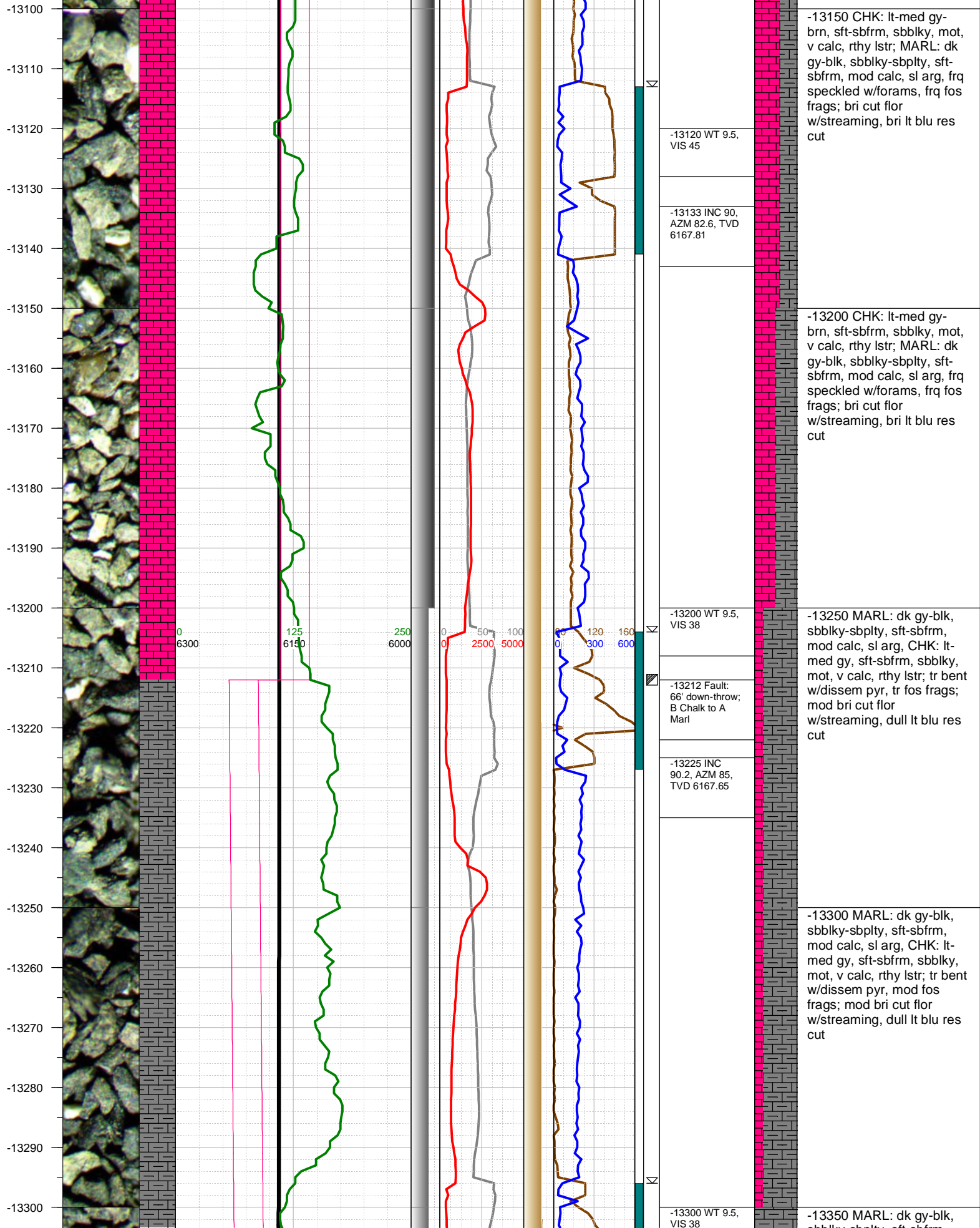
-12650 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg, mod bent, mod speckled w/forams, tr fos frags; bri cut flor w/streaming, bri lt blu res cut

-12700 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg, mod bent, mod speckled w/forams, tr fos frags; bri









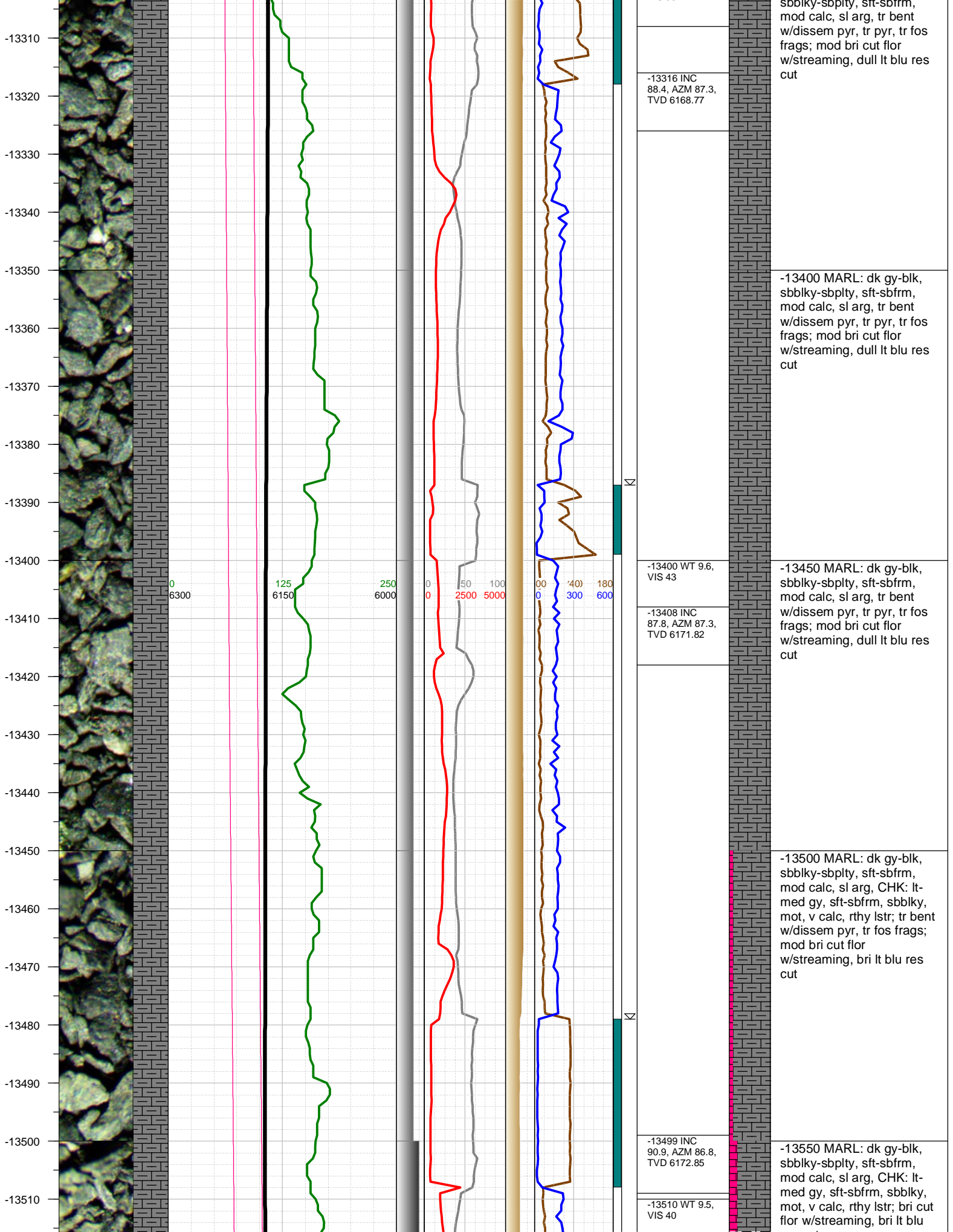
-13150 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, frq speckled w/forams, frq fos frags; bri cut flr w/streaming, bri lt blu res cut

-13200 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, frq speckled w/forams, frq fos frags; bri cut flr w/streaming, bri lt blu res cut

-13250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr bent w/dissem pyr, tr fos frags; mod bri cut flr w/streaming, dull lt blu res cut

-13300 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr bent w/dissem pyr, mod fos frags; mod bri cut flr w/streaming, dull lt blu res cut

-13350 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm



sbblky-sbplty, sft-sbfrm,  
mod calc, sl arg, tr bent  
w/disse pyr, tr pyr, tr fos  
frags; mod bri cut flor  
w/streaming, dull lt blu res  
cut

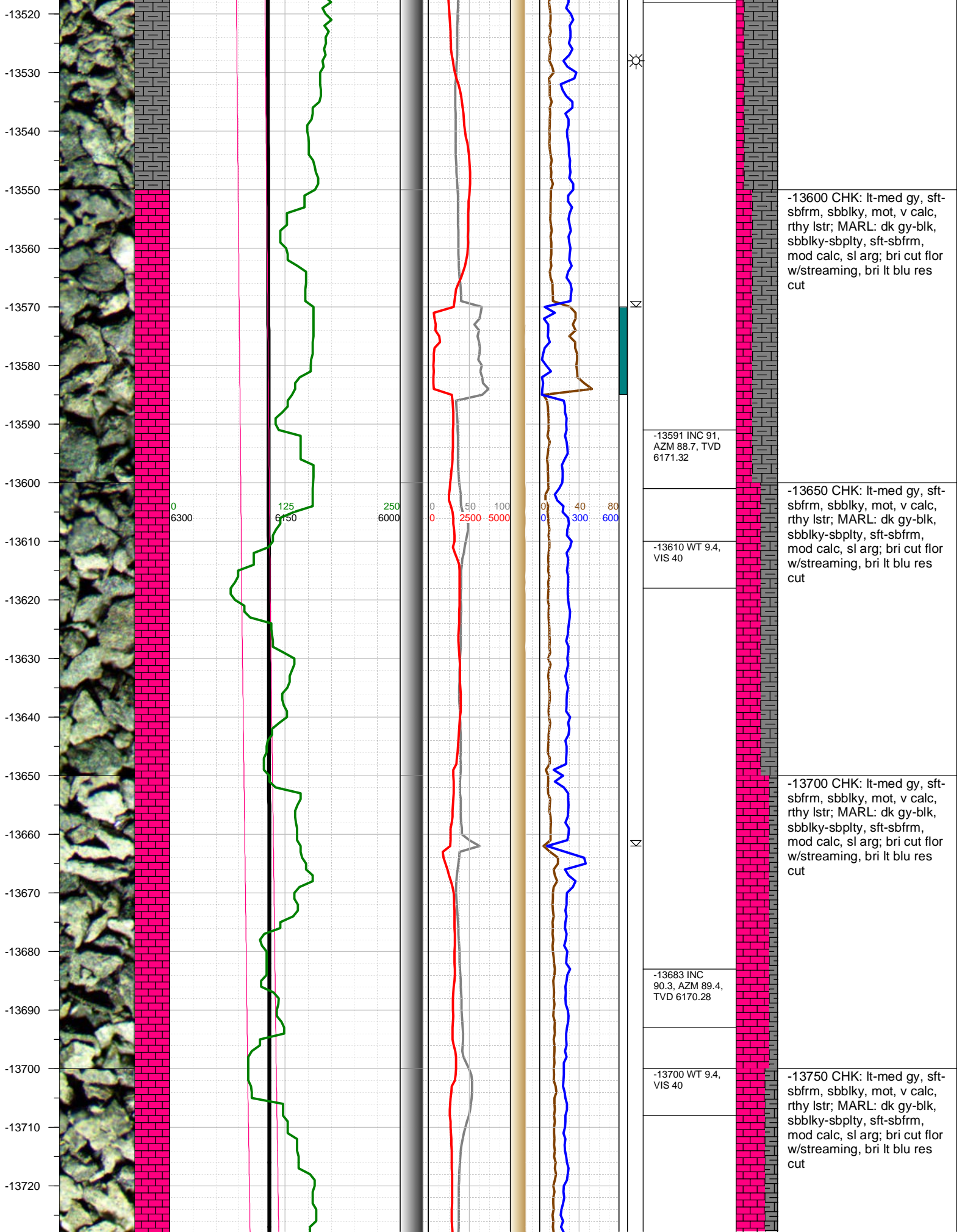
-13400 MARL: dk gy-blk,  
sbblky-sbplty, sft-sbfrm,  
mod calc, sl arg, tr bent  
w/disse pyr, tr pyr, tr fos  
frags; mod bri cut flor  
w/streaming, dull lt blu res  
cut

-13450 MARL: dk gy-blk,  
sbblky-sbplty, sft-sbfrm,  
mod calc, sl arg, tr bent  
w/disse pyr, tr pyr, tr fos  
frags; mod bri cut flor  
w/streaming, dull lt blu res  
cut

-13500 MARL: dk gy-blk,  
sbblky-sbplty, sft-sbfrm,  
mod calc, sl arg, CHK: lt-  
med gy, sft-sbfrm, sbblky,  
mot, v calc, rthy lstr; tr bent  
w/disse pyr, tr fos frags;  
mod bri cut flor  
w/streaming, bri lt blu res  
cut

-13550 MARL: dk gy-blk,  
sbblky-sbplty, sft-sbfrm,  
mod calc, sl arg, CHK: lt-  
med gy, sft-sbfrm, sbblky,  
mot, v calc, rthy lstr; bri cut  
flor w/streaming, bri lt blu





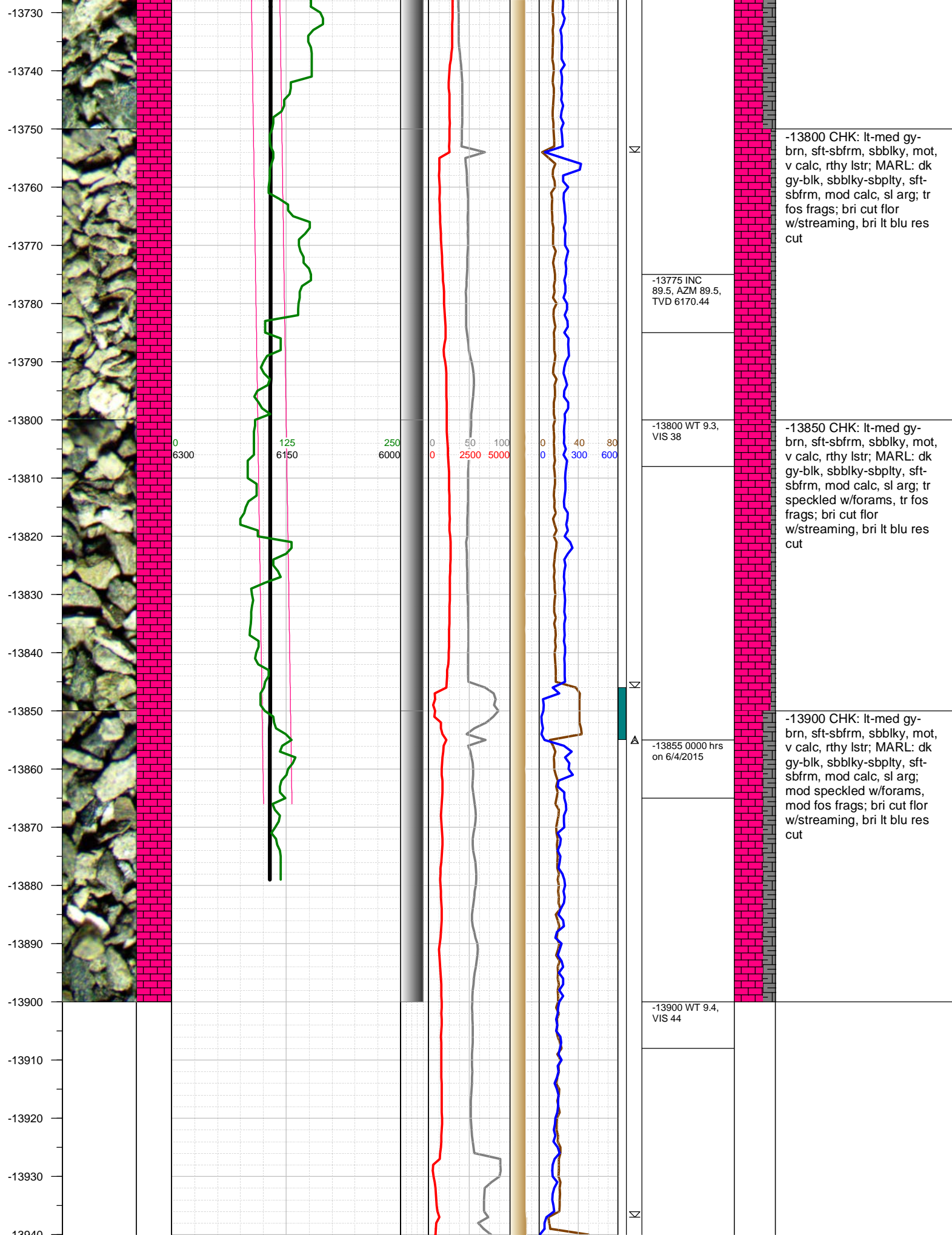
res cut

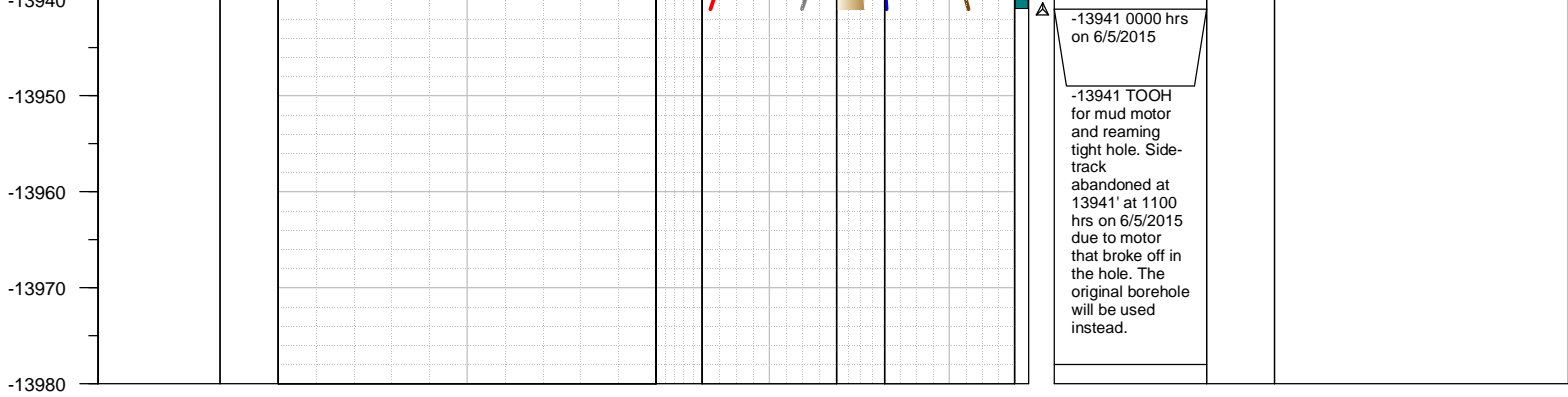
-13600 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; bri cut flor w/streaming, bri lt blu res cut

-13650 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; bri cut flor w/streaming, bri lt blu res cut

-13700 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; bri cut flor w/streaming, bri lt blu res cut

-13750 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; bri cut flor w/streaming, bri lt blu res cut





TOTAL DEPTH =    13941'

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