

-6200 SHLY SLTST: med-dk gy, frm, blk-sb blk, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; NSFOC

-6162 INC 23.8, AZM 176.9, TVD 6126.17

-6180 Change TGas Scale

-6200 WT 10.1, VIS 35

-6250 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; SHLY SLTST: med gy, frm, blk-sb blk, gr-rthy, sl calc; NSFOC

-6209 INC 29.6, AZM 172.5, TVD 6168.15

-6300 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; SHLY SLTST: med gy, frm, blk-sb blk, gr-rthy, sl calc, com cal frac fill; fnt cut flor

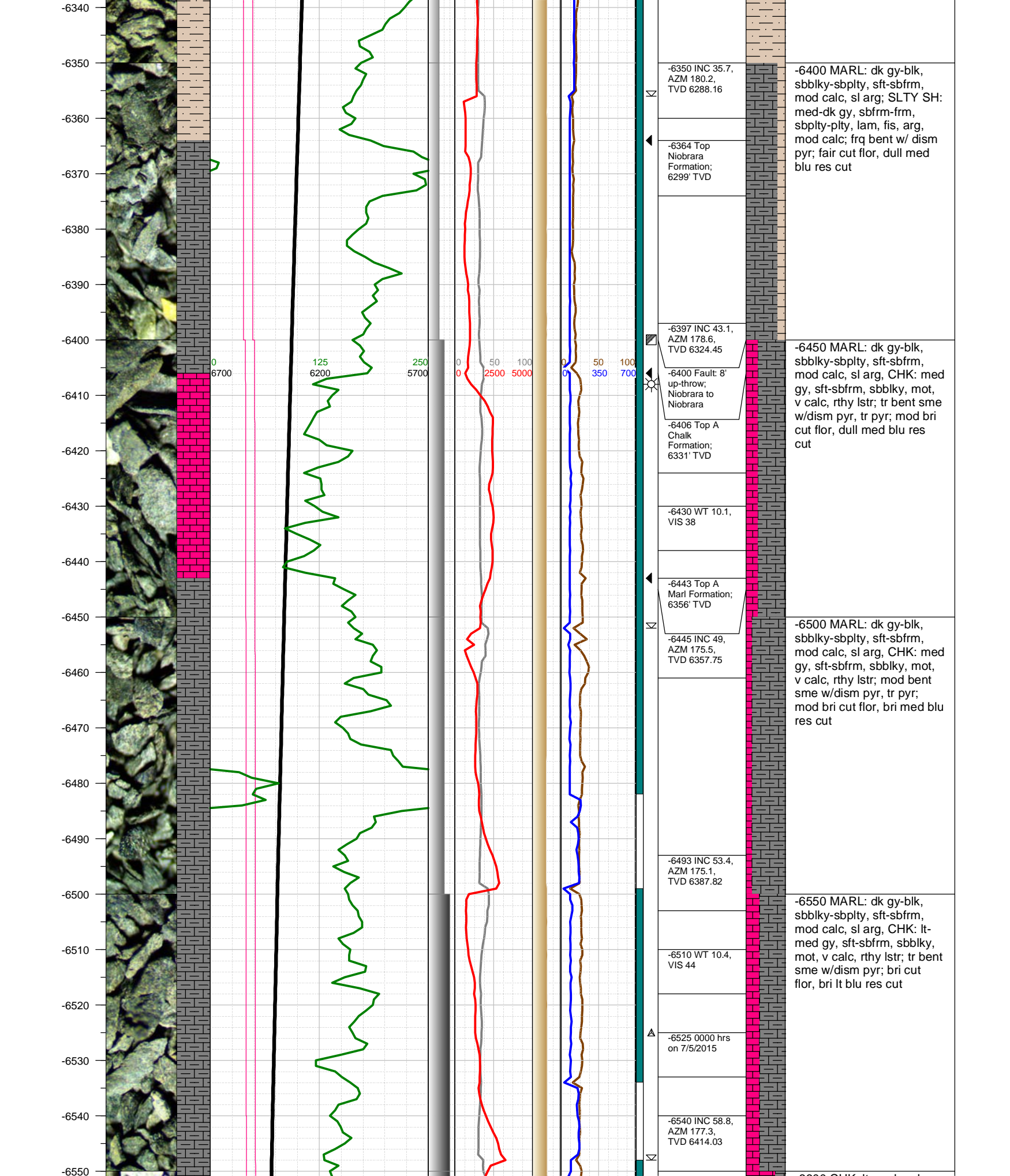
-6255 INC 29.9, AZM 175.6, TVD 6208.09

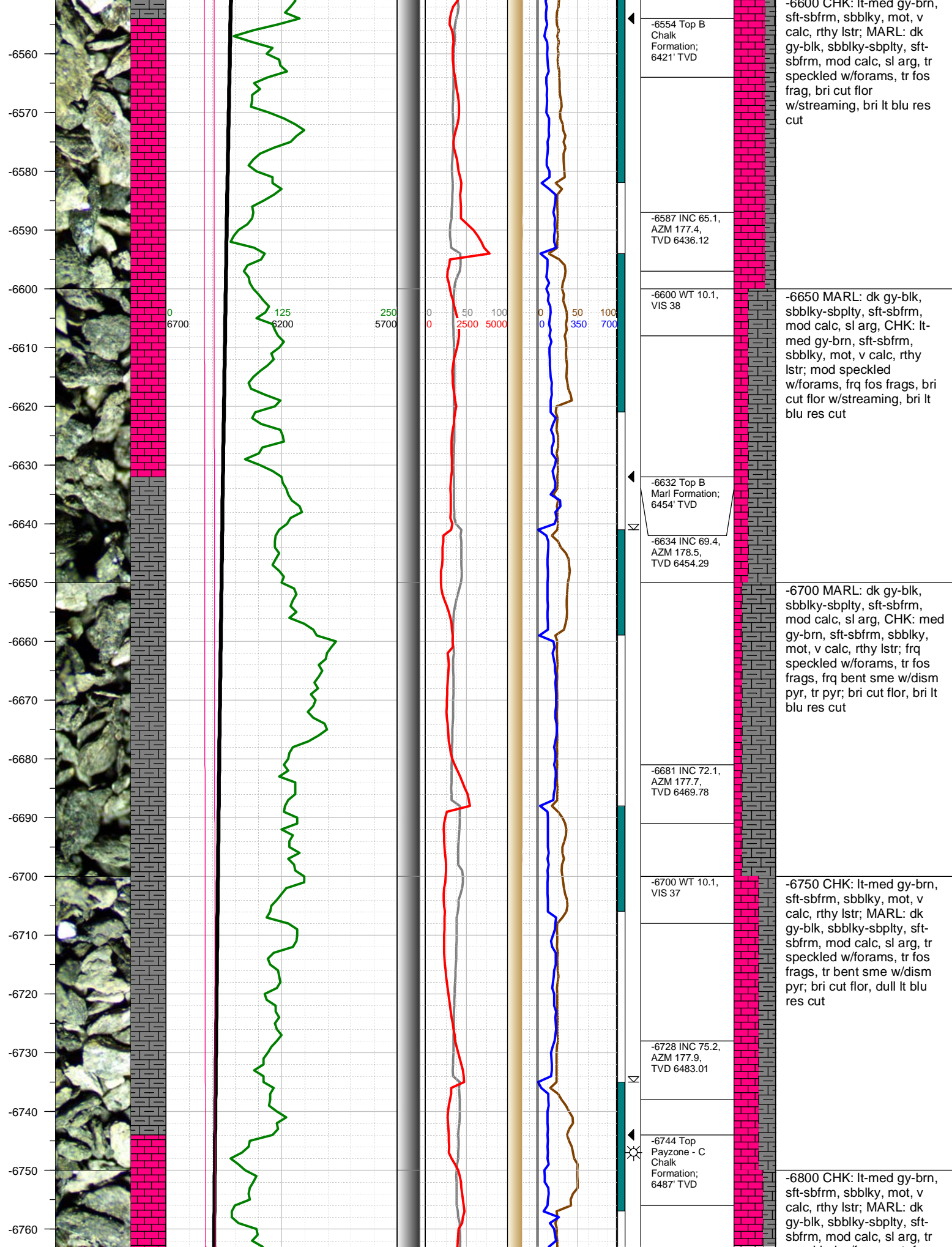
-6295 Top Sharon Springs Formation; 6242' TVD

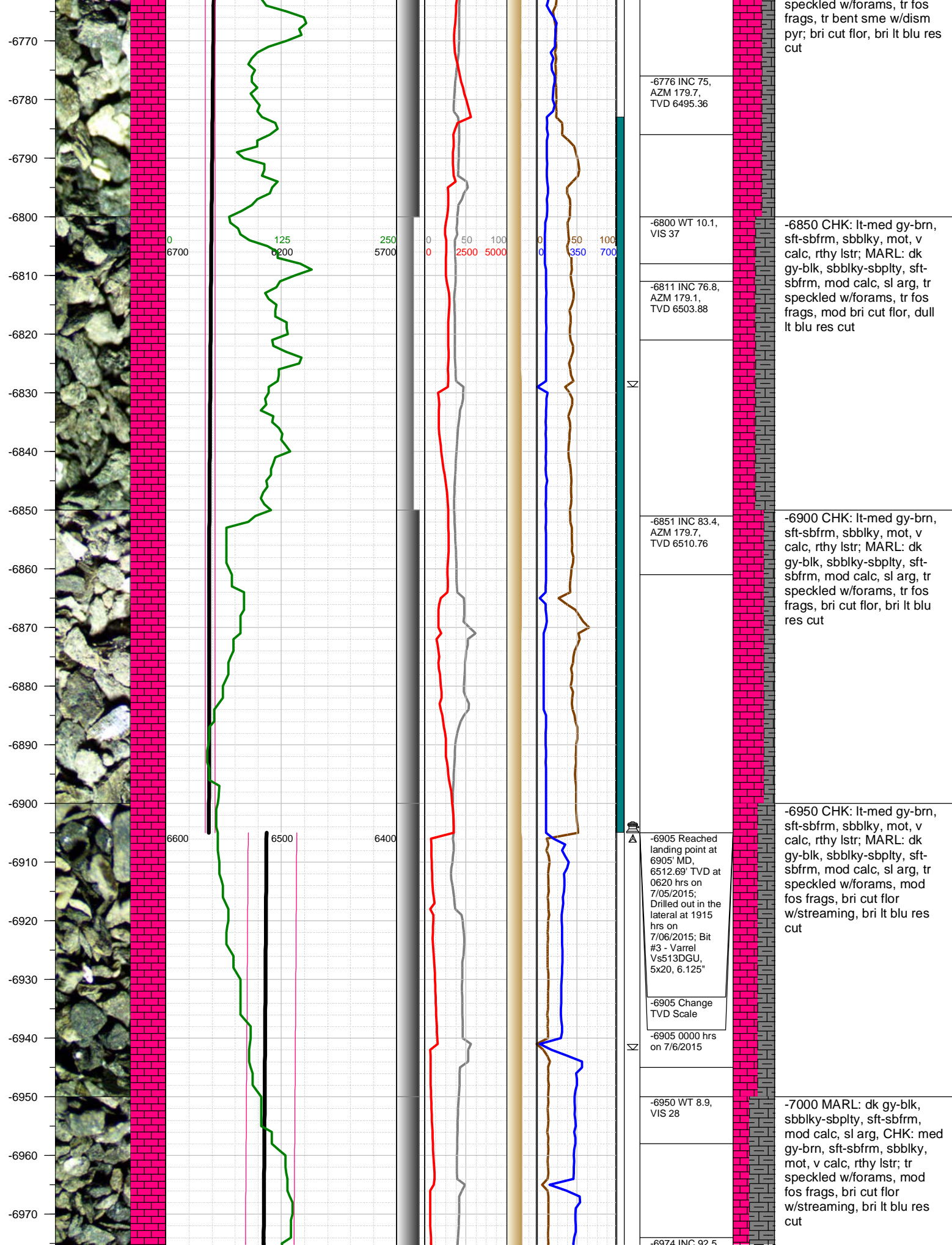
-6350 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc, com cal frac fill, tr shly sltst; fair cut flor, dull med blu res cut

-6303 INC 32.3, AZM 174.3, TVD 6249.19

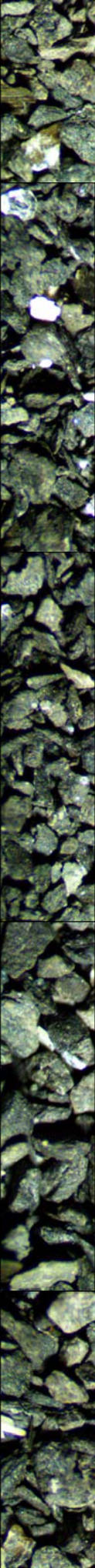
-6320 WT 10.2, VIS 36







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6400

0 50 100
0 2500 5000

0 50 100
0 350 700

-7000 WT 8.75,
VIS 29

-7034 TOOHS for
MWD tool
-7034 0000 hrs
on 7/7/2015
-7034 TOOHS for
MWD tool

-7069 INC 91.7,
AZM 180.4,
TVD 6511.67

-7100 WT 8.75,
VIS 29

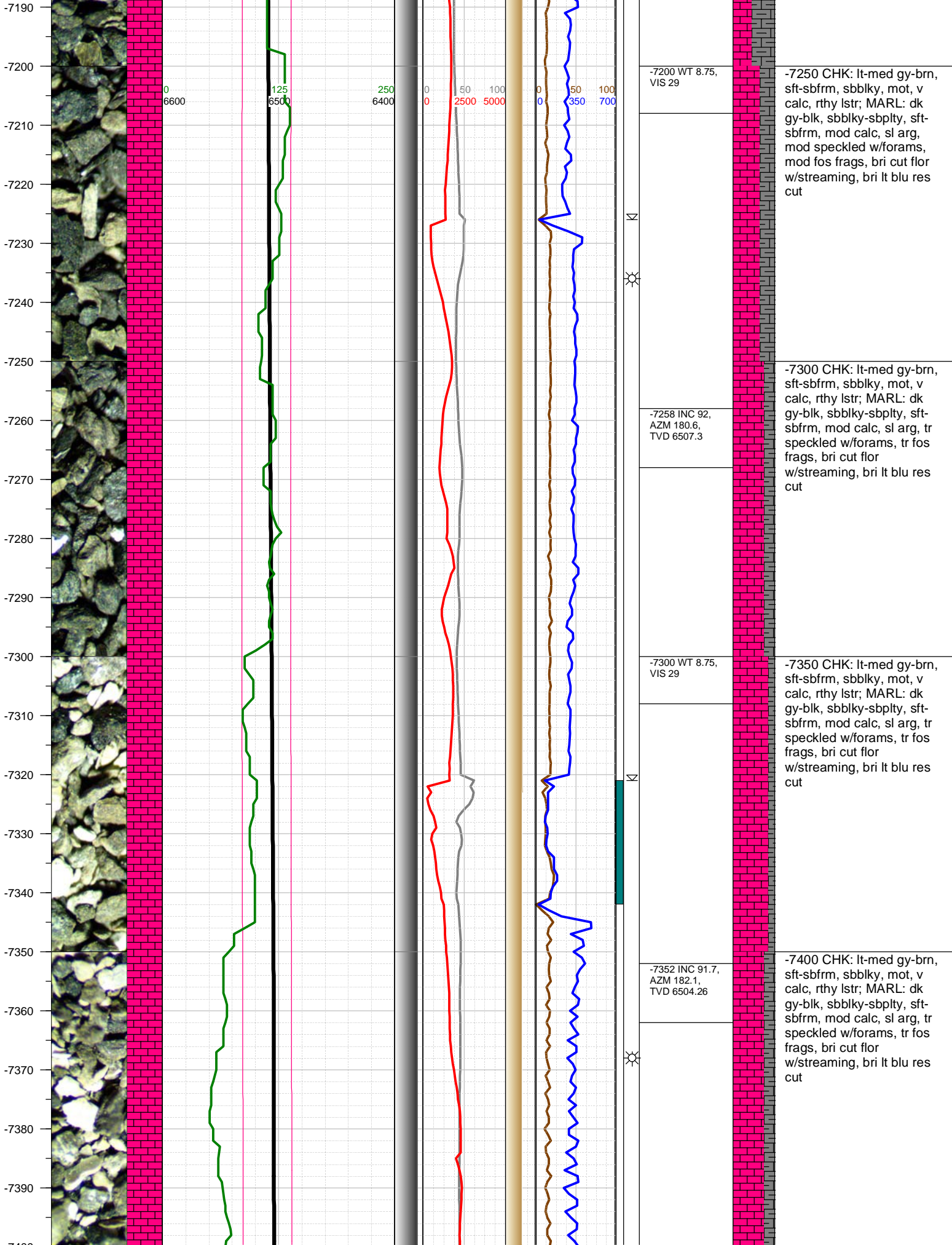
-7163 INC 90.8,
AZM 180.5,
TVD 6509.62

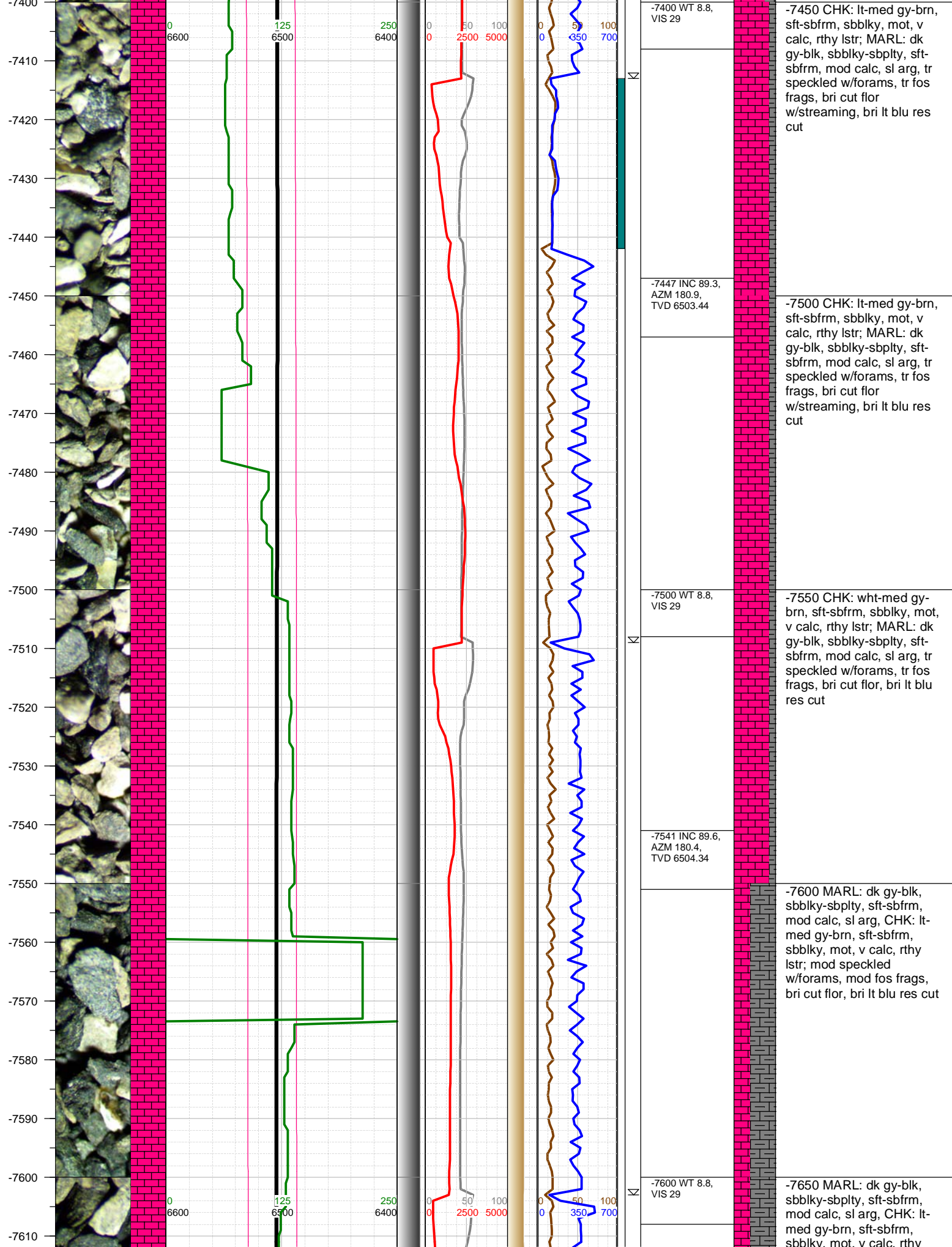
-7050 MARL: dk gy-blk,
sbbly-sbplty, sft-sbfrm,
mod calc, sl arg, CHK: med
gy-brn, sft-sbfrm, sbblyk,
mot, v calc, rthy lstr; tr
speckled w/forams, frq fos
frags, bri cut flr
w/streaming, bri lt blu res
cut

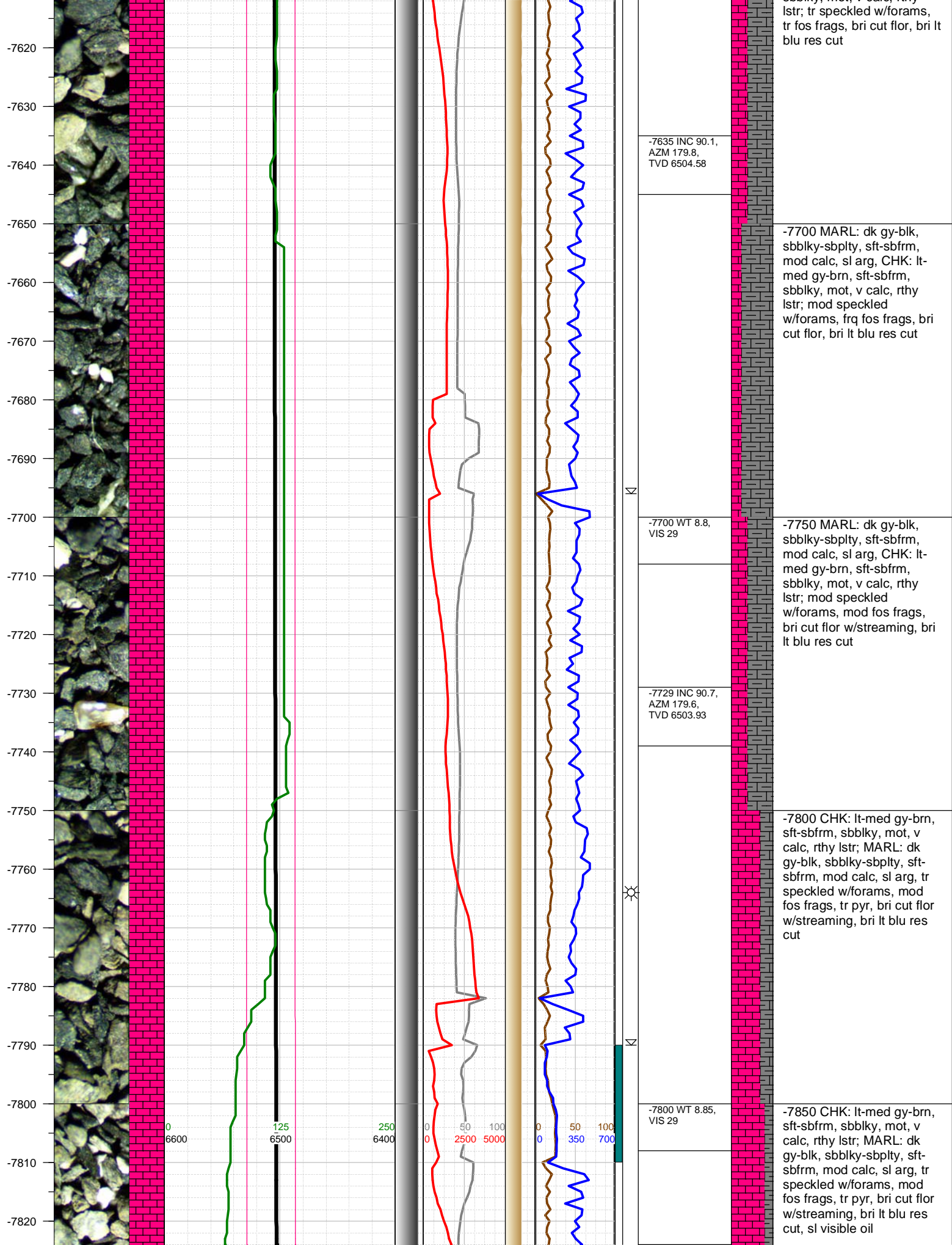
-7100 MARL: dk gy-blk,
sbbly-sbplty, sft-sbfrm,
mod calc, sl arg, CHK: med
gy-brn, sft-sbfrm, sbblyk,
mot, v calc, rthy lstr; frq
speckled w/forams, frq fos
frags, bri cut flr
w/streaming, bri lt blu res
cut

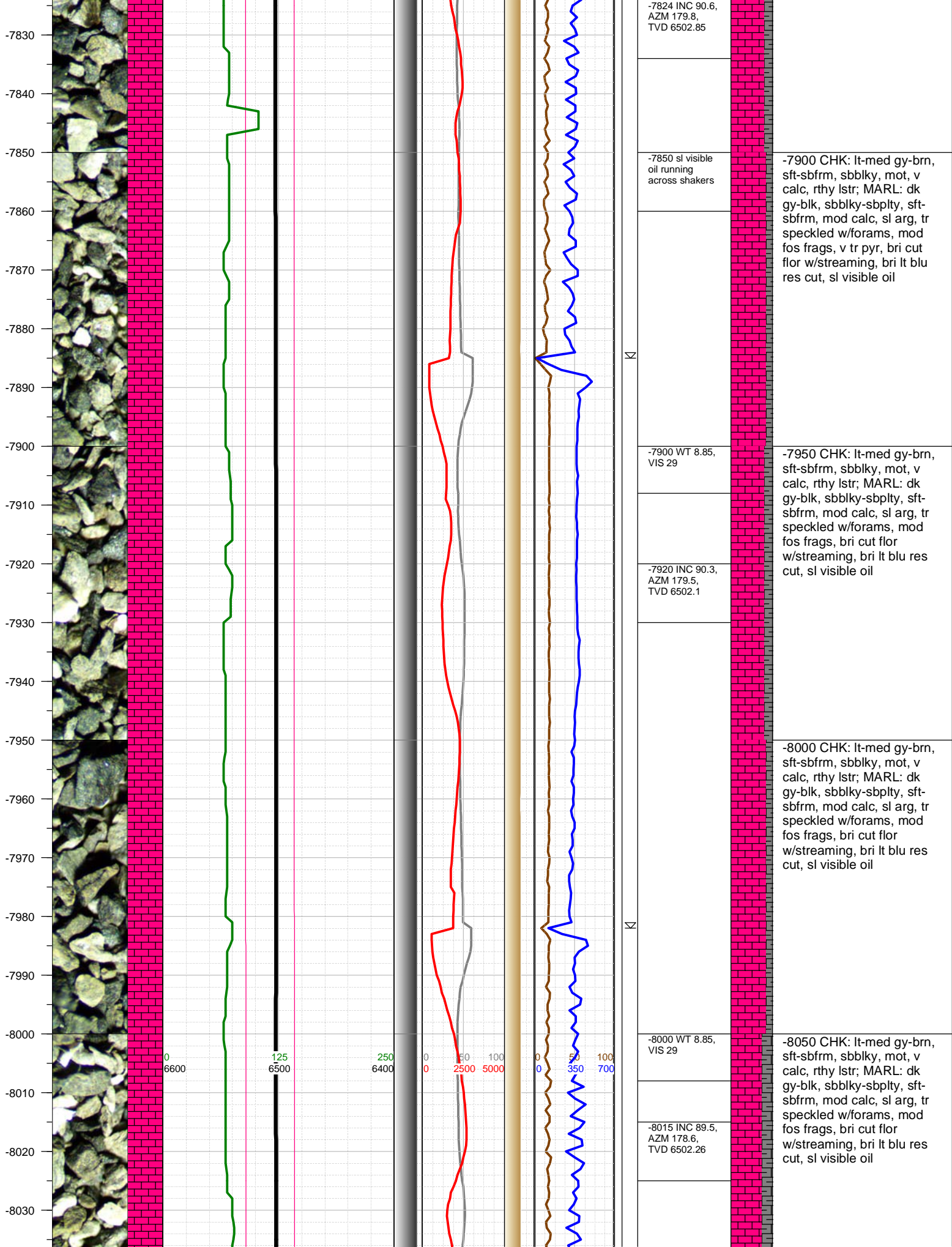
-7150 MARL: dk gy-blk,
sbbly-sbplty, sft-sbfrm,
mod calc, sl arg, CHK: lt-
med gy-brn, sft-sbfrm,
sbblyk, mot, v calc, rthy
lstr; tr speckled w/forams,
mod fos frags, bri cut flr
w/streaming, bri lt blu res
cut

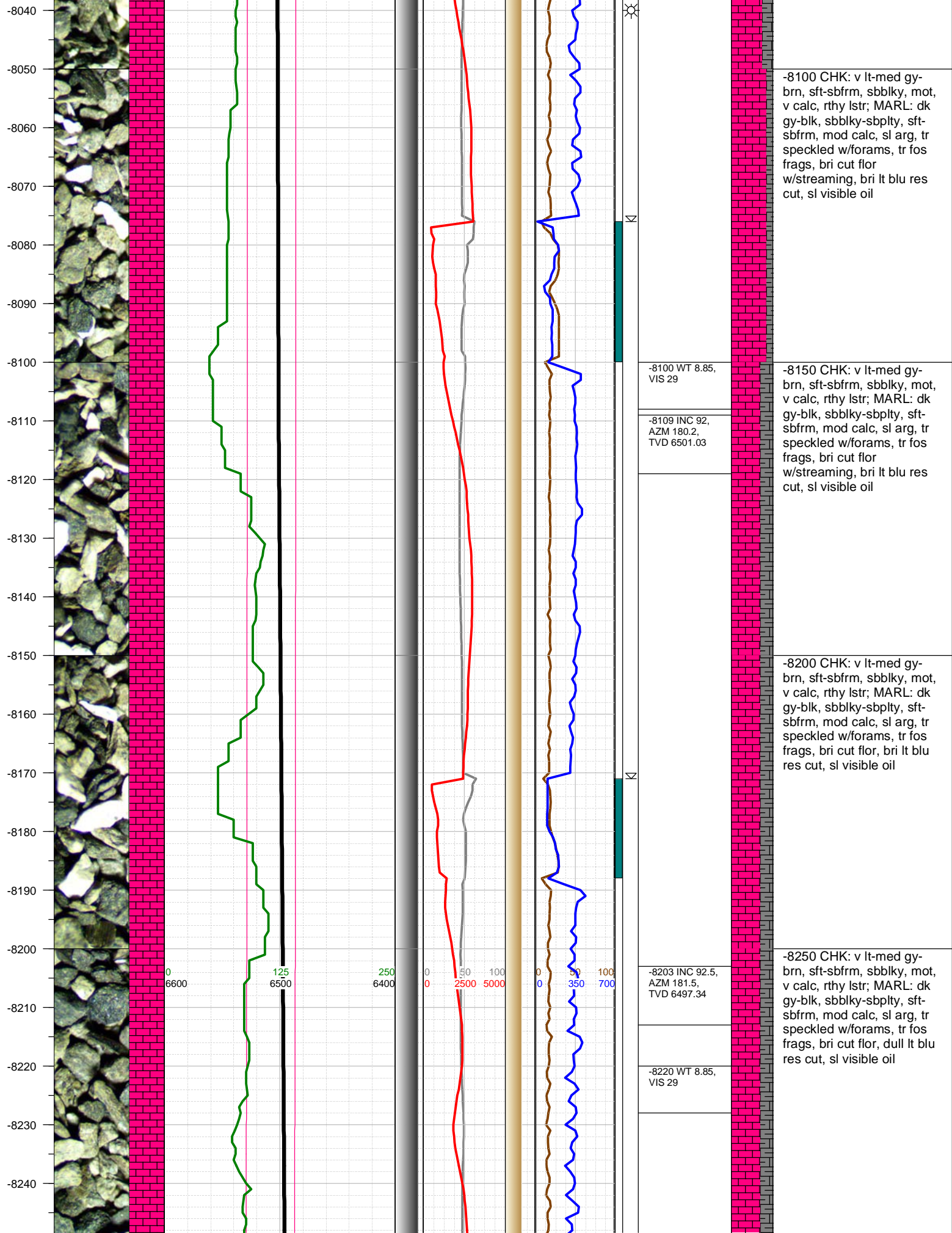
-7200 MARL: dk gy-blk,
sbbly-sbplty, sft-sbfrm,
mod calc, sl arg, CHK: lt-
med gy-brn, sft-sbfrm,
sbblyk, mot, v calc, rthy
lstr; mod speckled
w/forams, mod fos frags,
bri cut flr w/streaming, bri
lt blu res cut









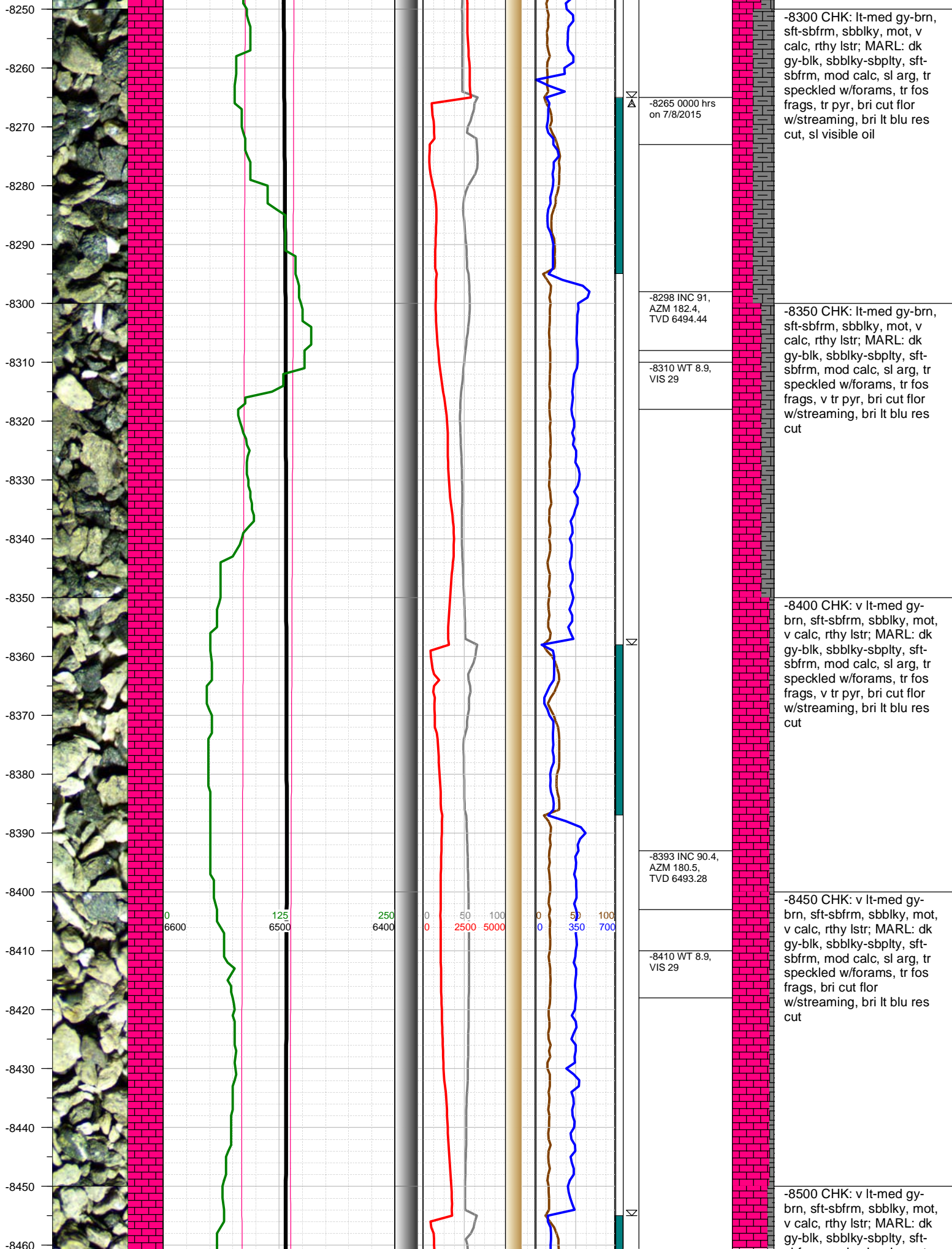


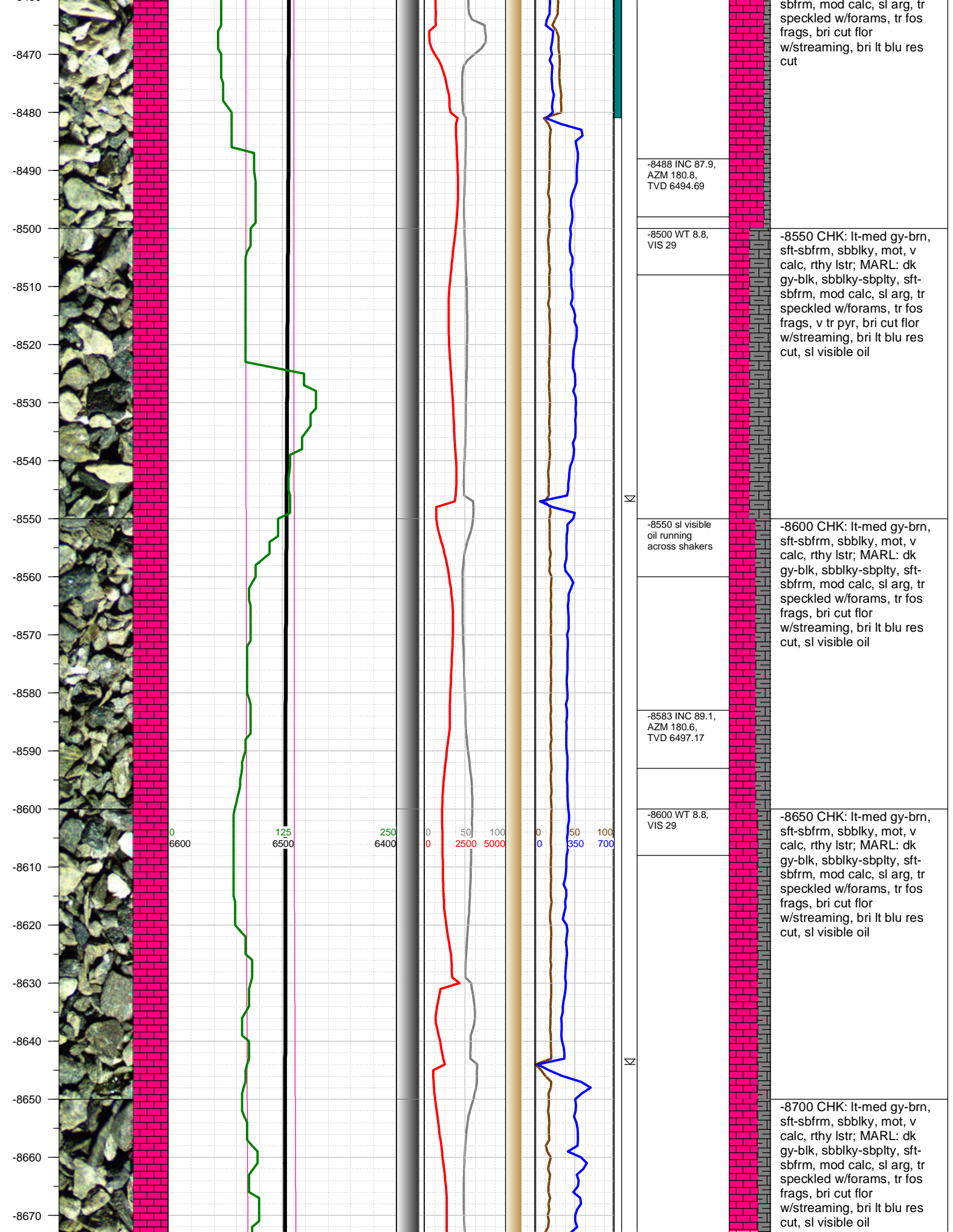
-8100 CHK: v lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flor w/streaming, bri lt blu res cut, sl visible oil

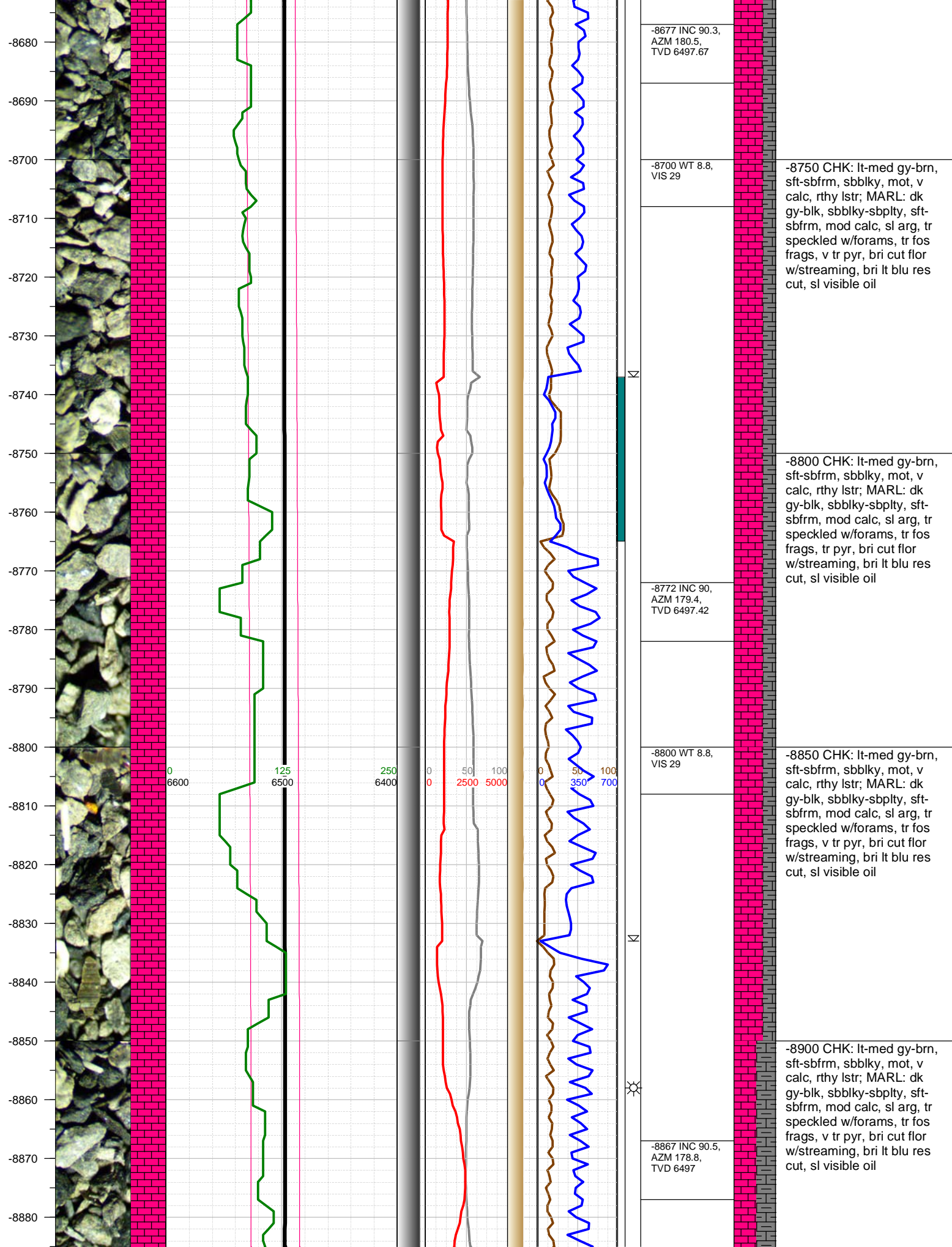
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-8200 CHK: v lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flor, bri lt blu res cut, sl visible oil

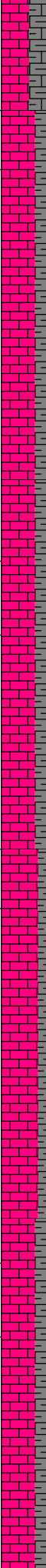
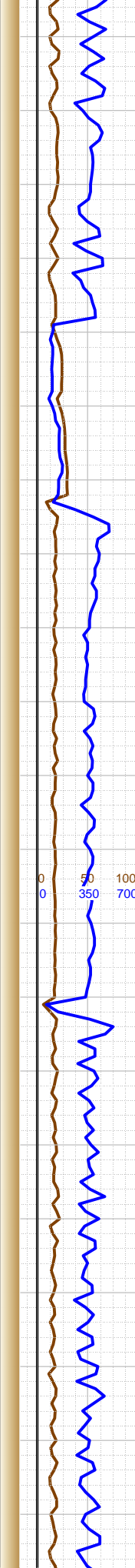
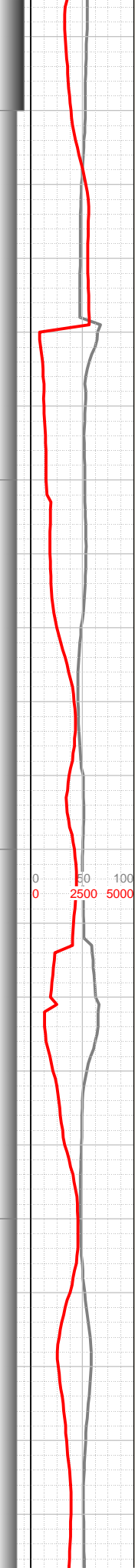
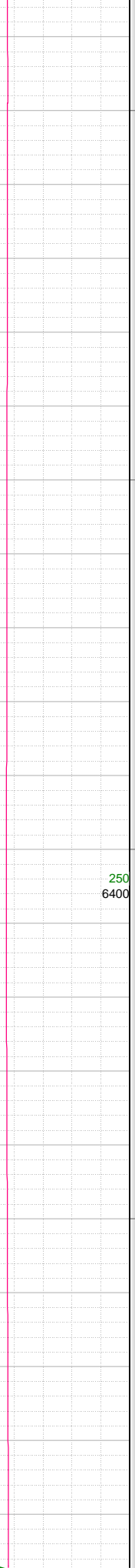
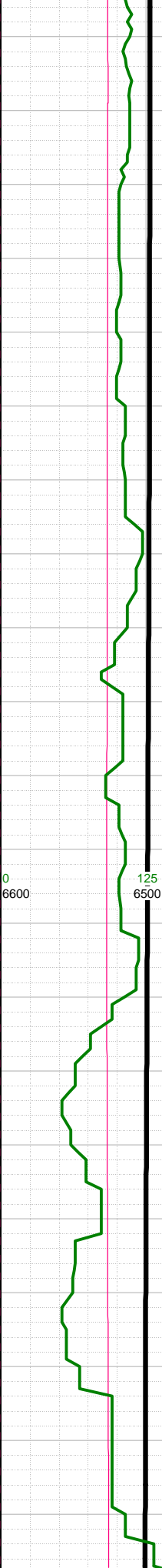
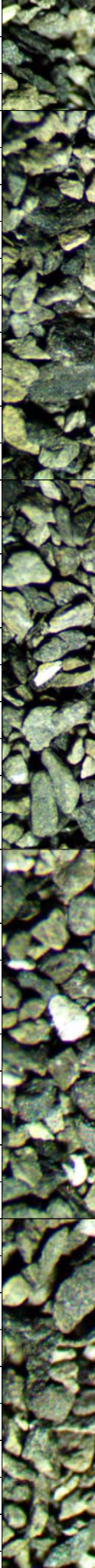
-8250 CHK: v lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flor, dull lt blu res cut, sl visible oil



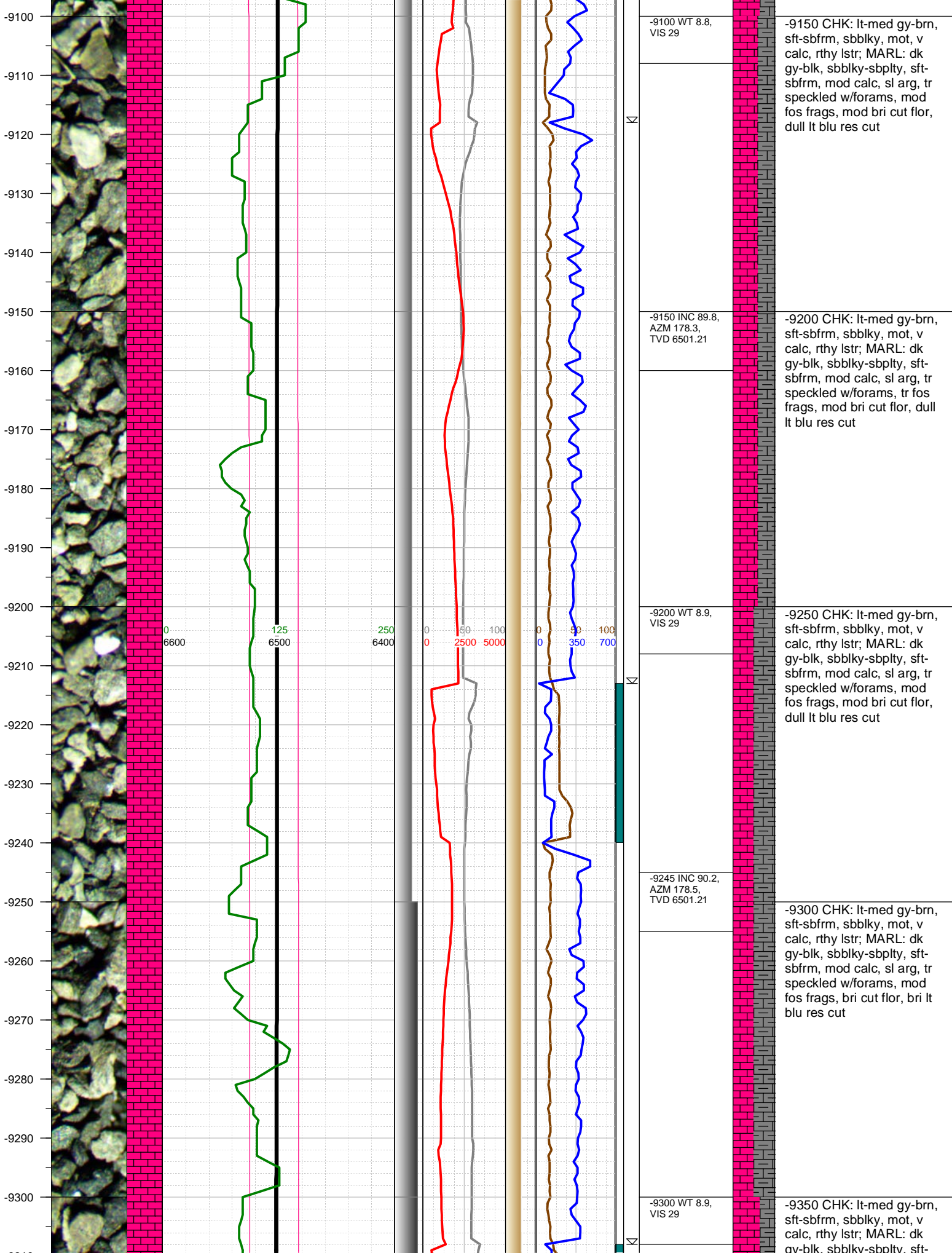


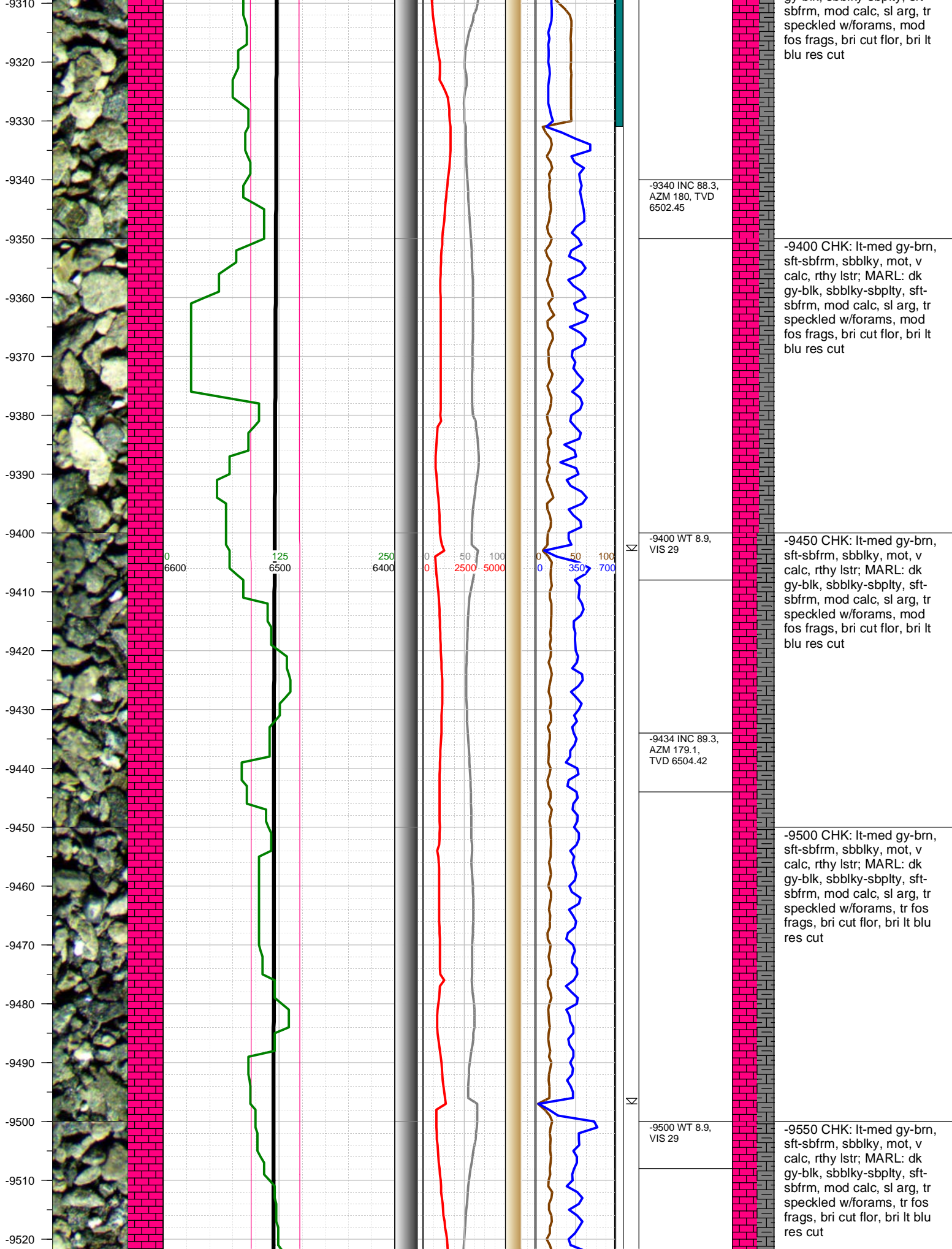


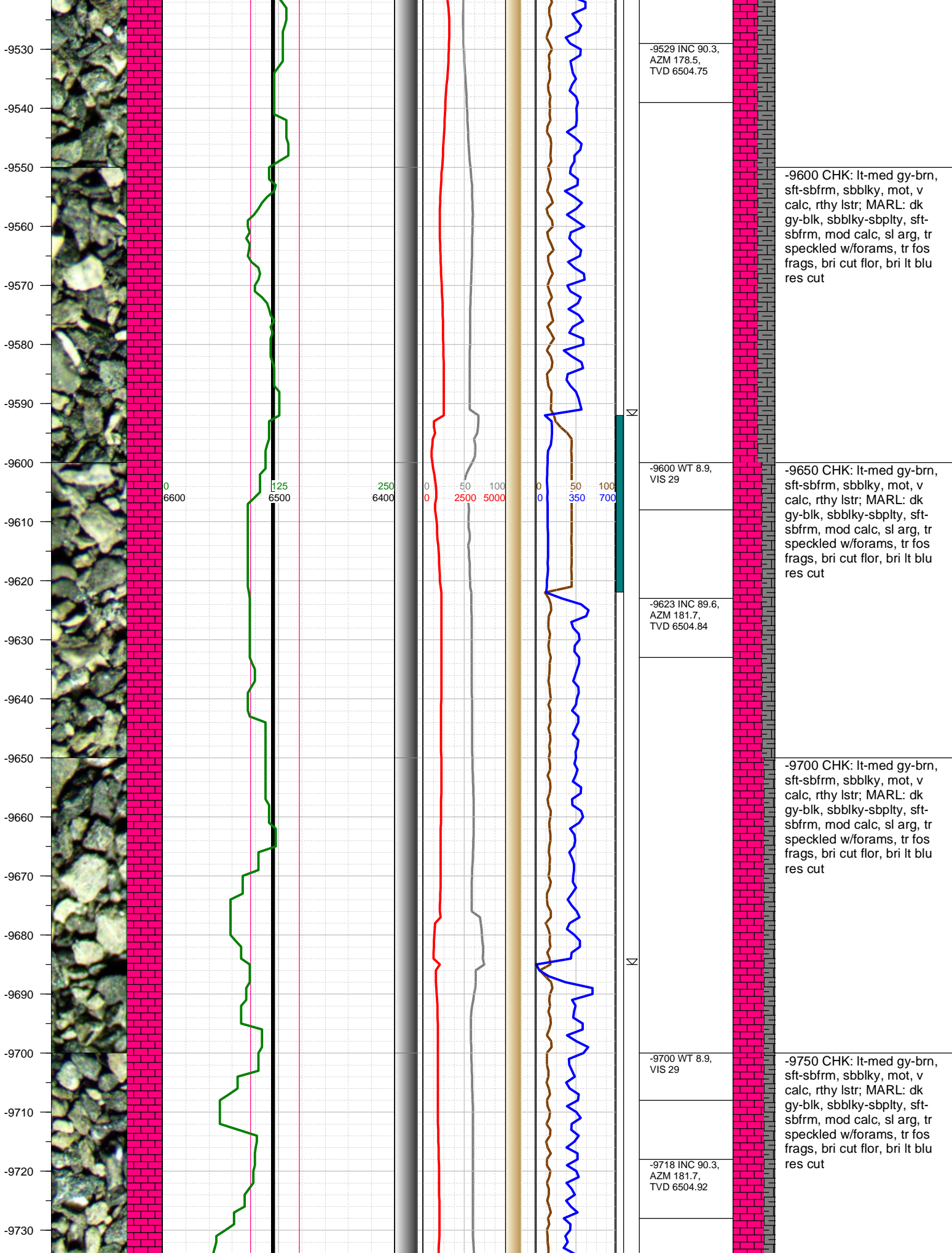
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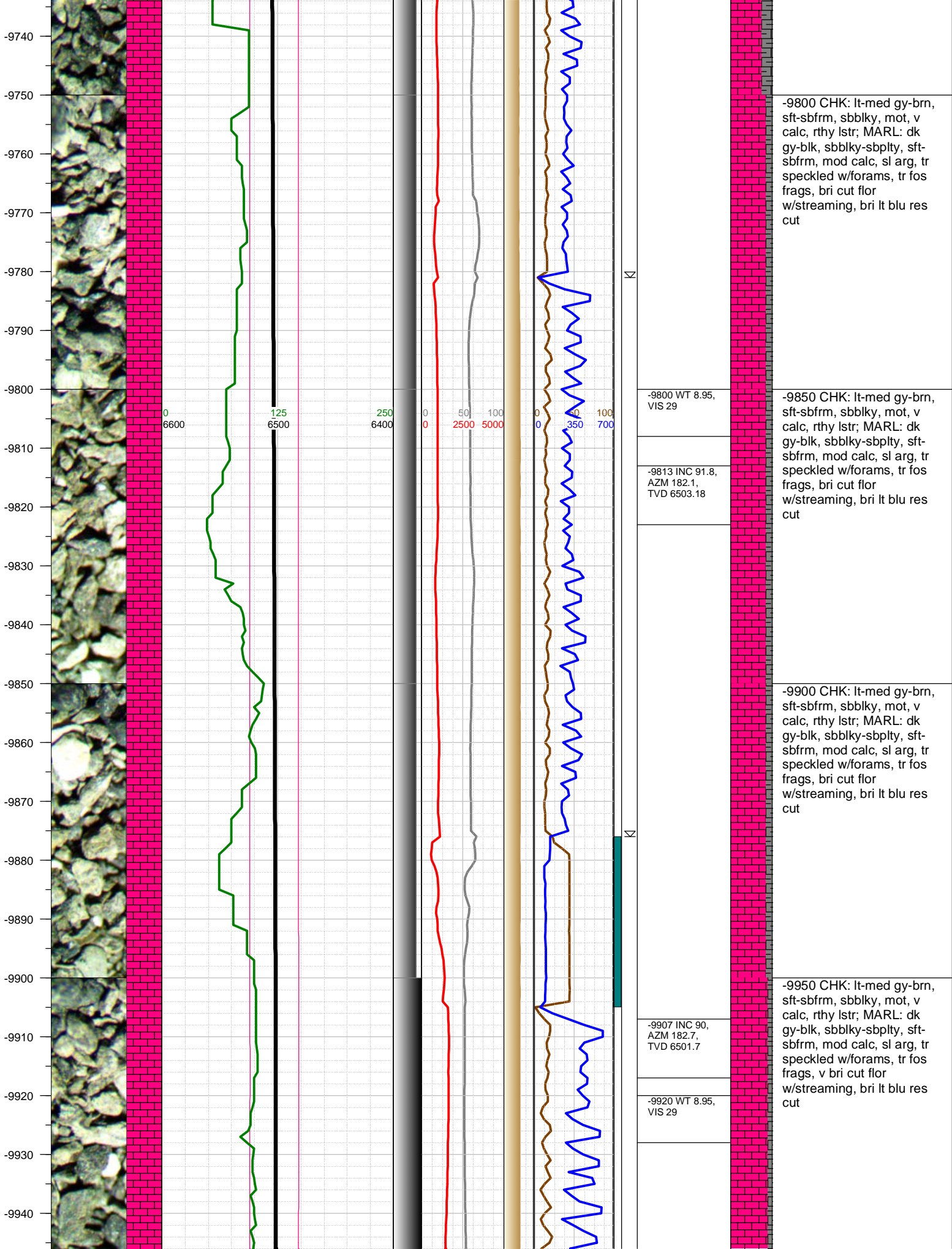


-8900 WT 8.8, VIS 29	-8950 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft- sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, v tr pyr, mod bri cut flor, dull lt blu res cut
-8961 INC 88.4, AZM 179.7, TVD 6497.91	-9000 CHK: lt-med gy-brn, 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, mod bri cut flor, dull lt blu res cut
-9000 WT 8.8, VIS 29	-9050 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, mod bri cut flor, dull lt blu res cut
-9056 INC 88.9, AZM 178.9, TVD 6500.14	-9100 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, mod bri cut flor, dull lt blu res cut







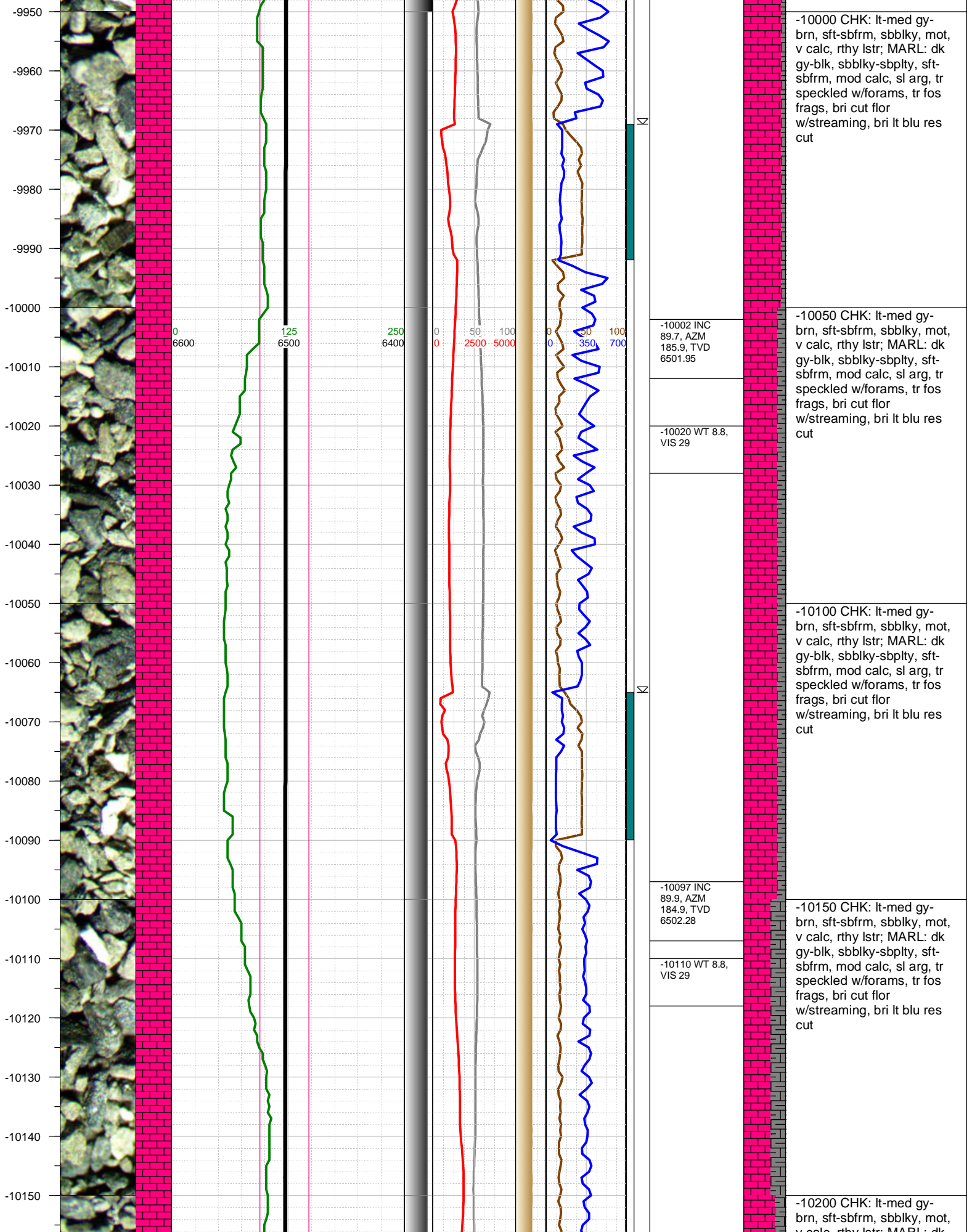


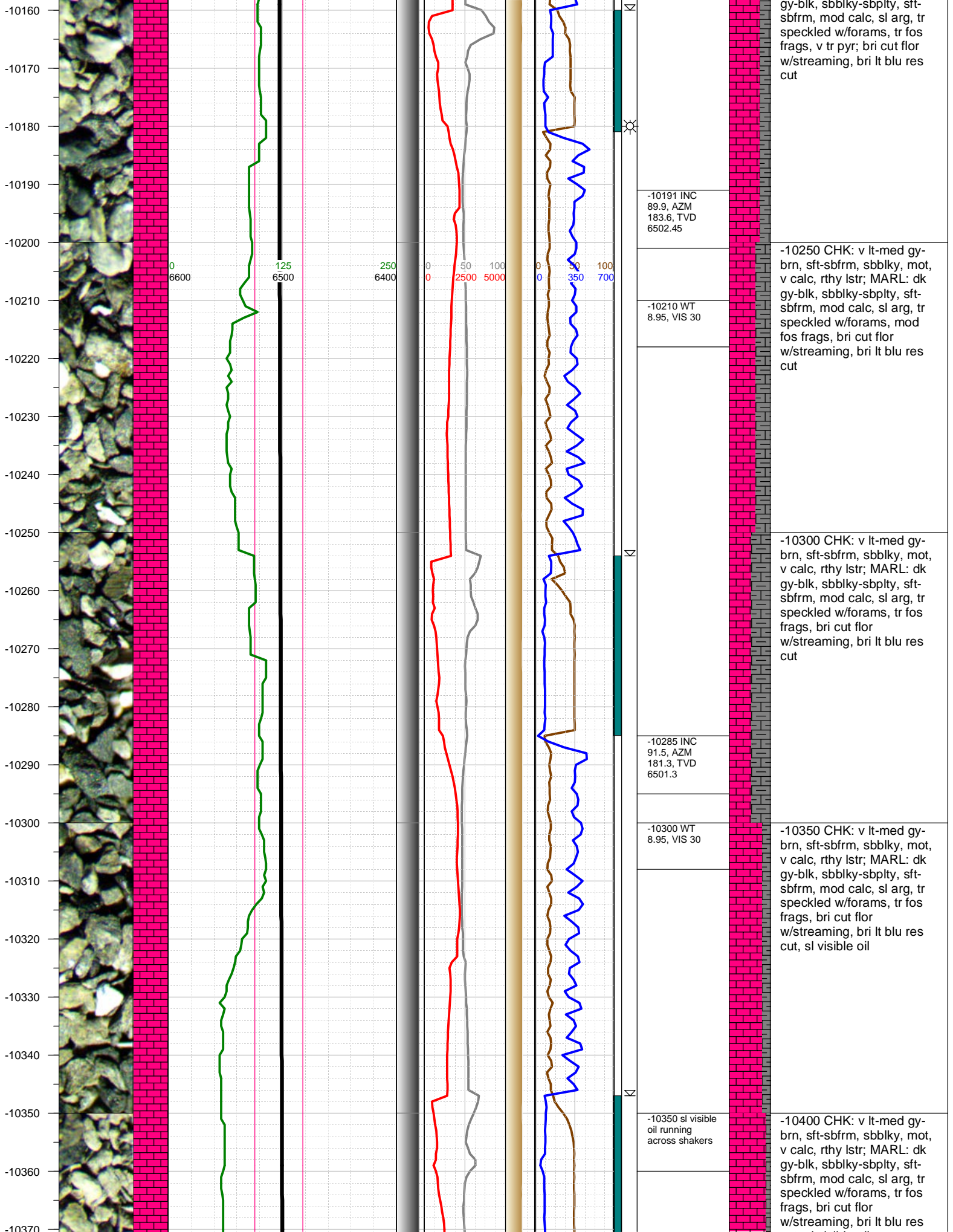
-9800 CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flr w/streaming, bri lt blu res cut

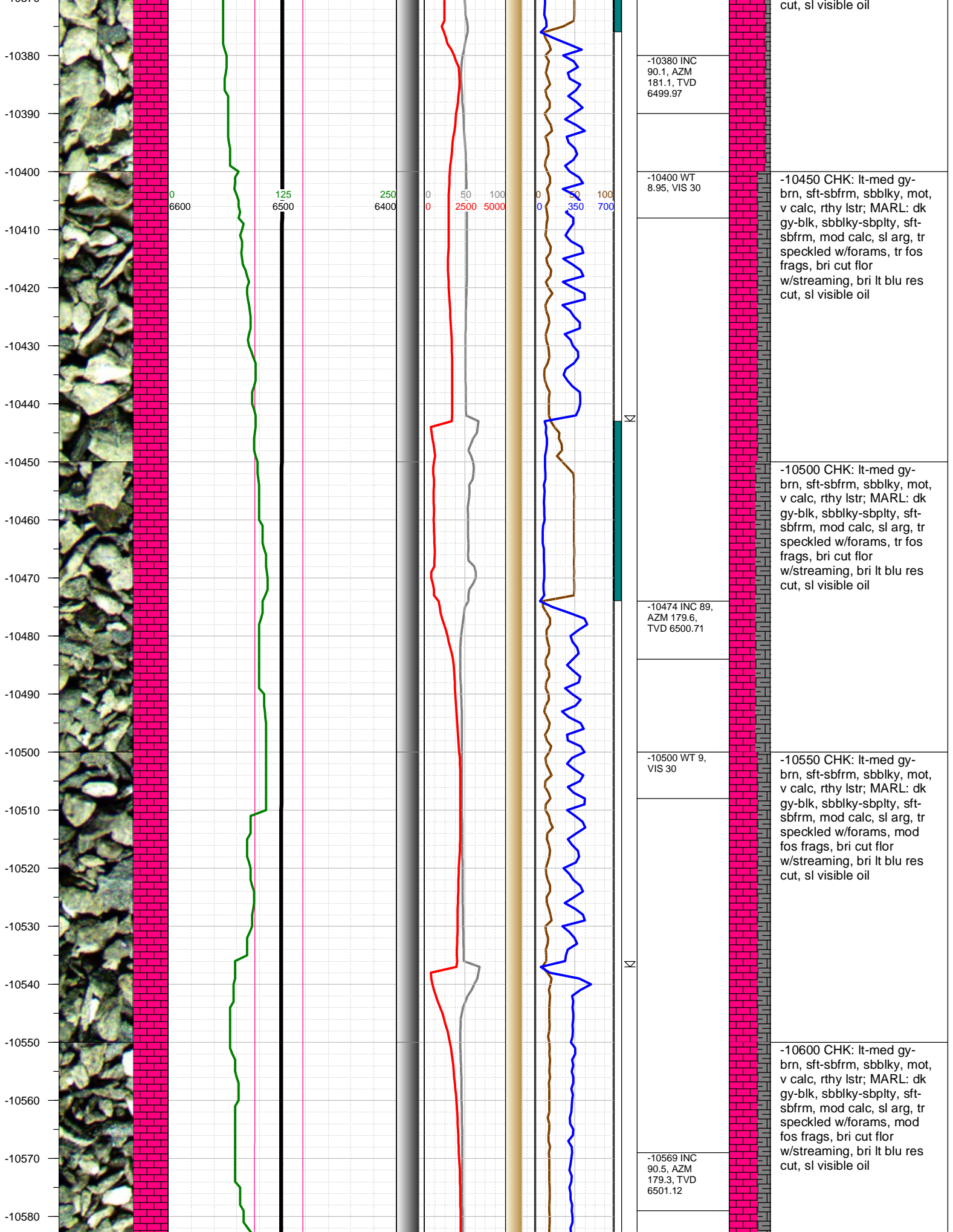
-9850 CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flr w/streaming, bri lt blu res cut

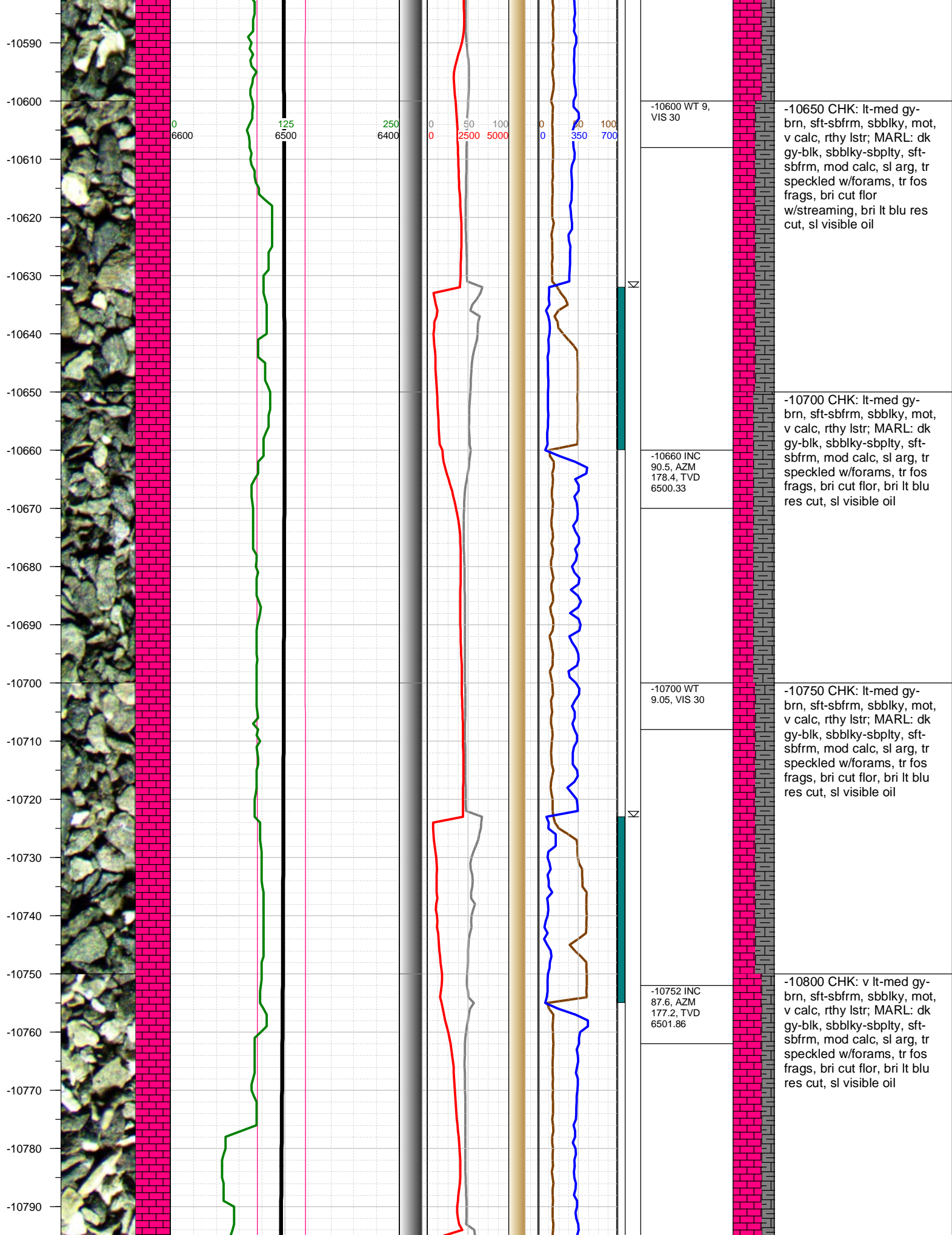
-9900 CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flr w/streaming, bri lt blu res cut

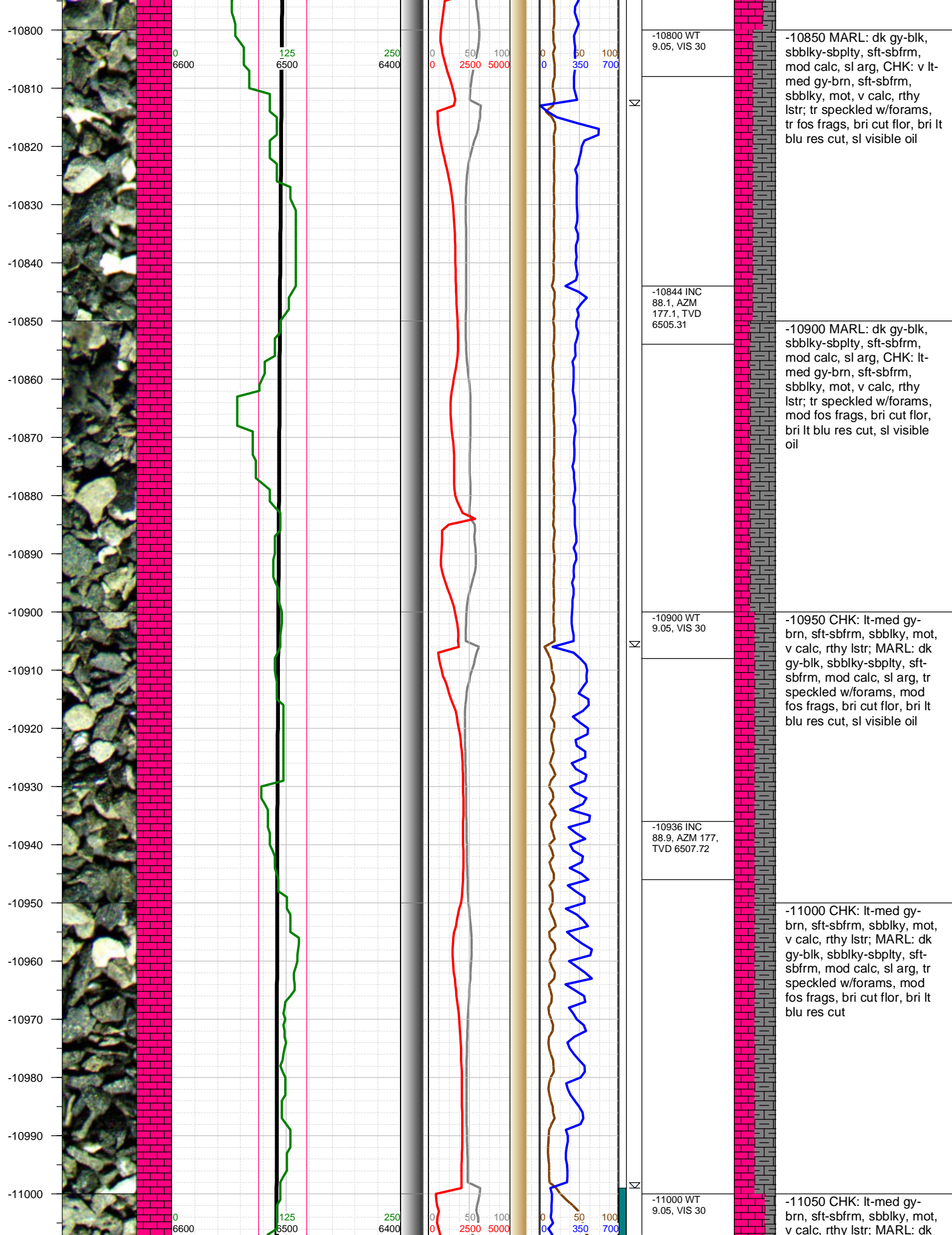
-9950 CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, v bri cut flr w/streaming, bri lt blu res cut

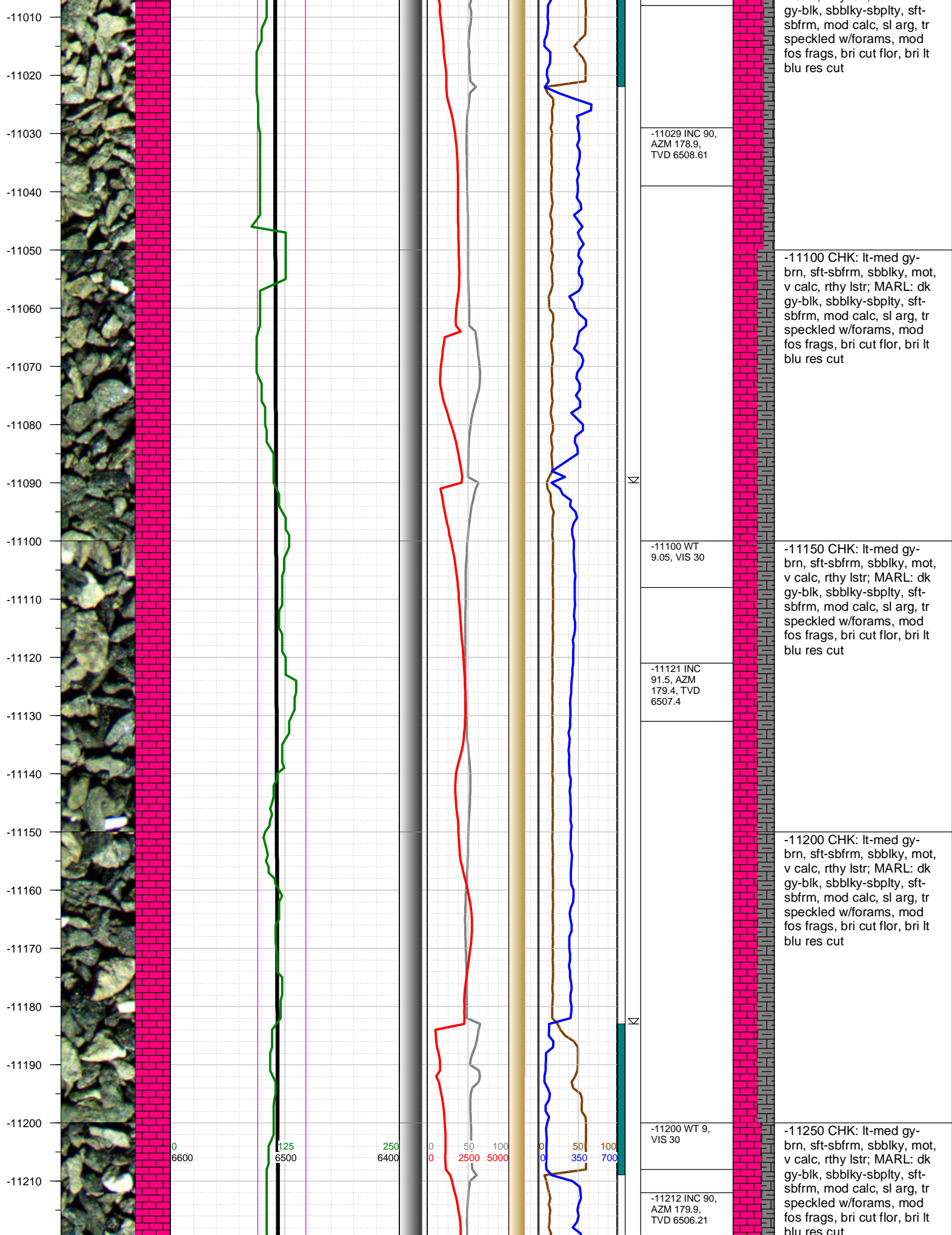


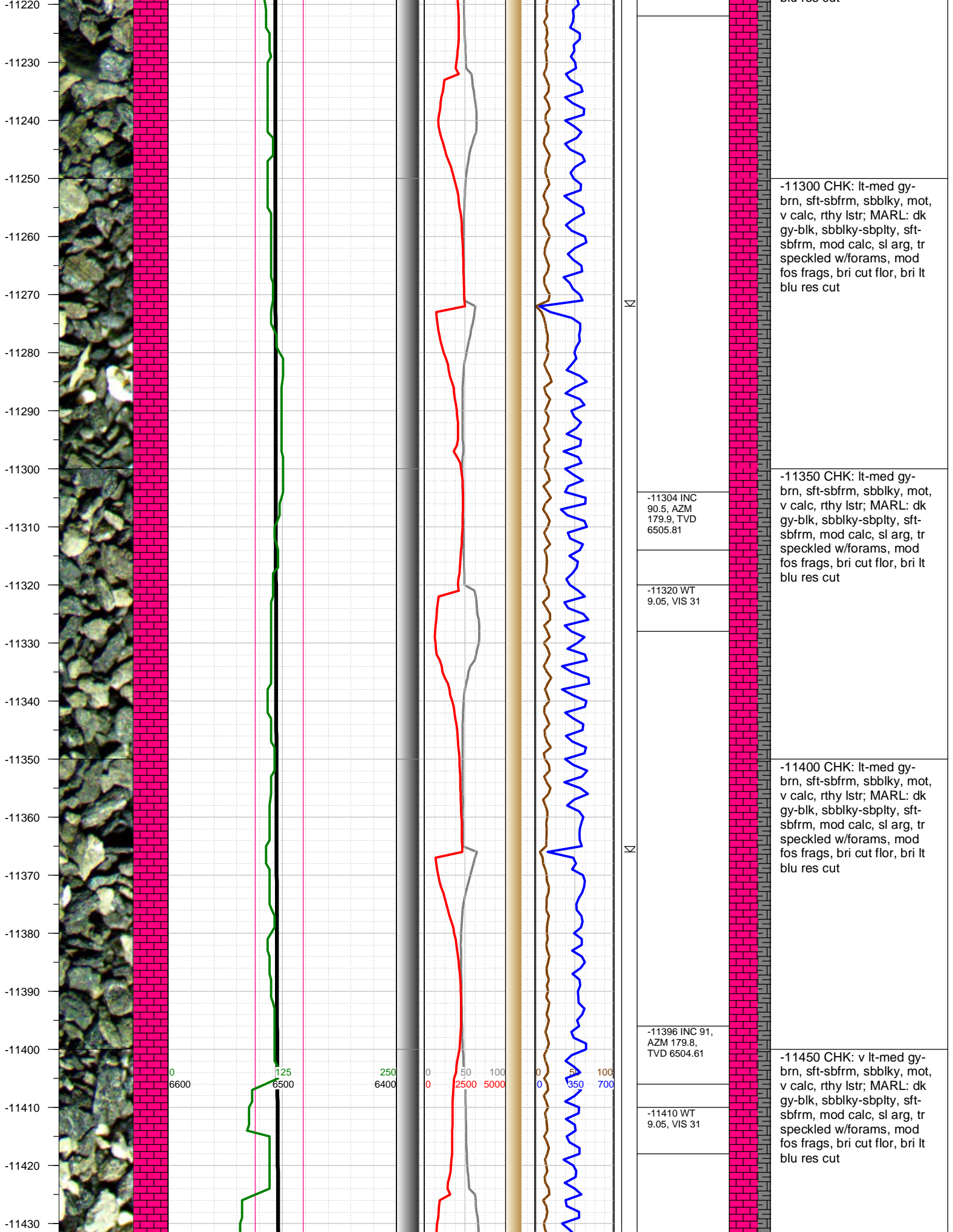


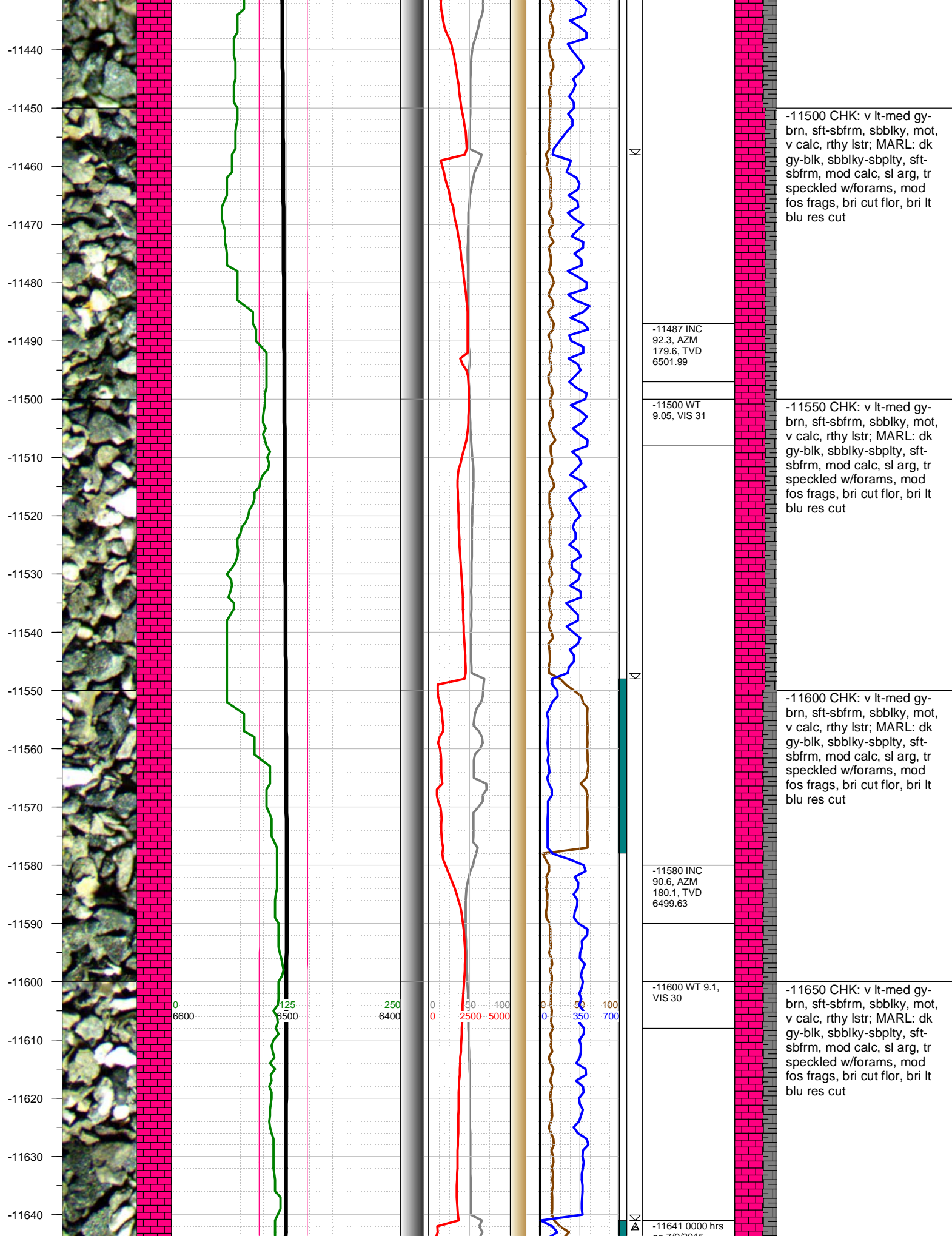


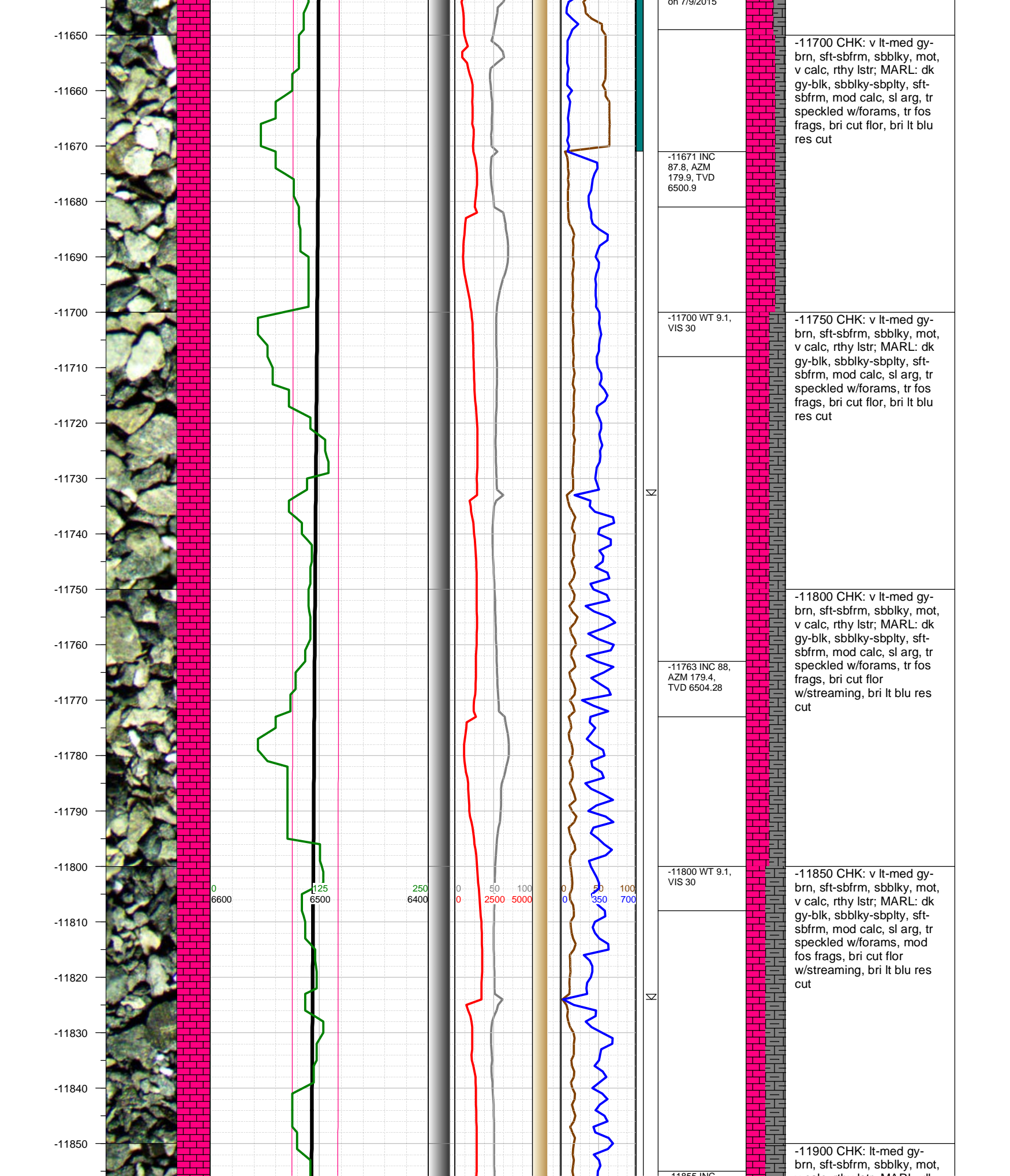




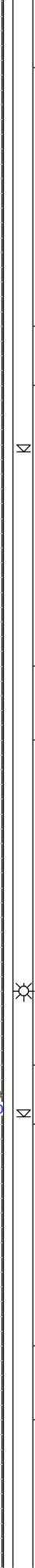
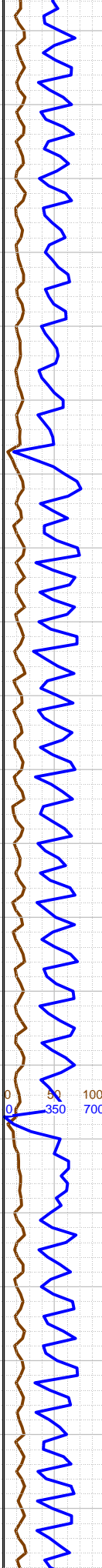
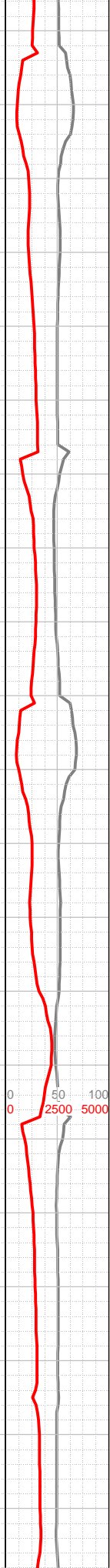
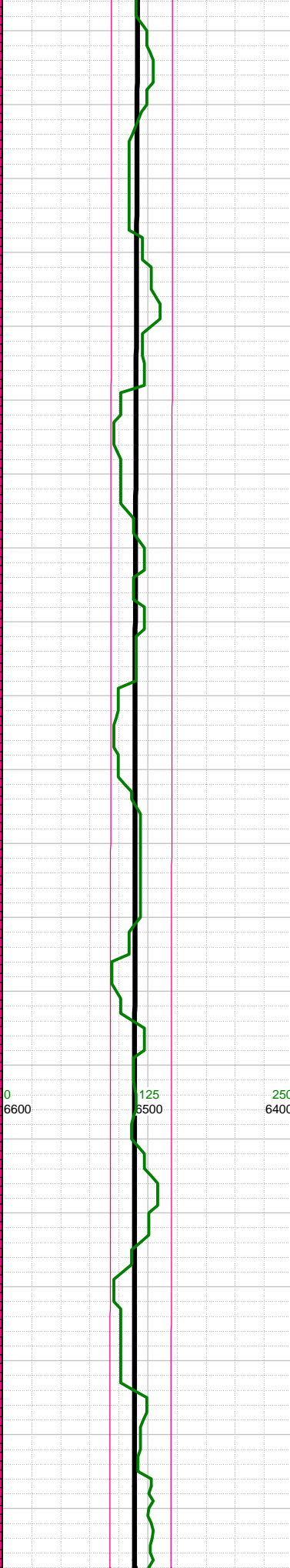
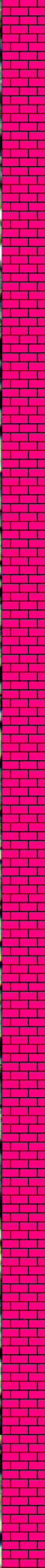
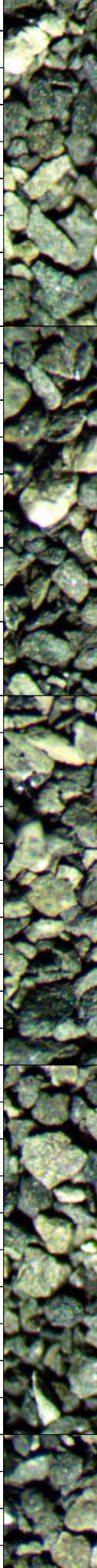




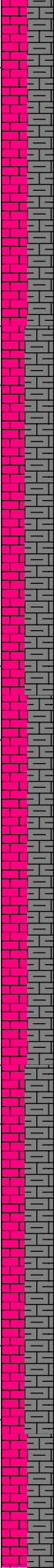




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-11855 INC 88.5, AZM 178.8, TVD 6507.08
-11900 WT 9.1, VIS 29
-11946 INC 89.4, AZM 178.3, TVD 6508.75
-12000 WT 9.1, VIS 29
-12038 INC 90, AZM 178.2, TVD 6509.23



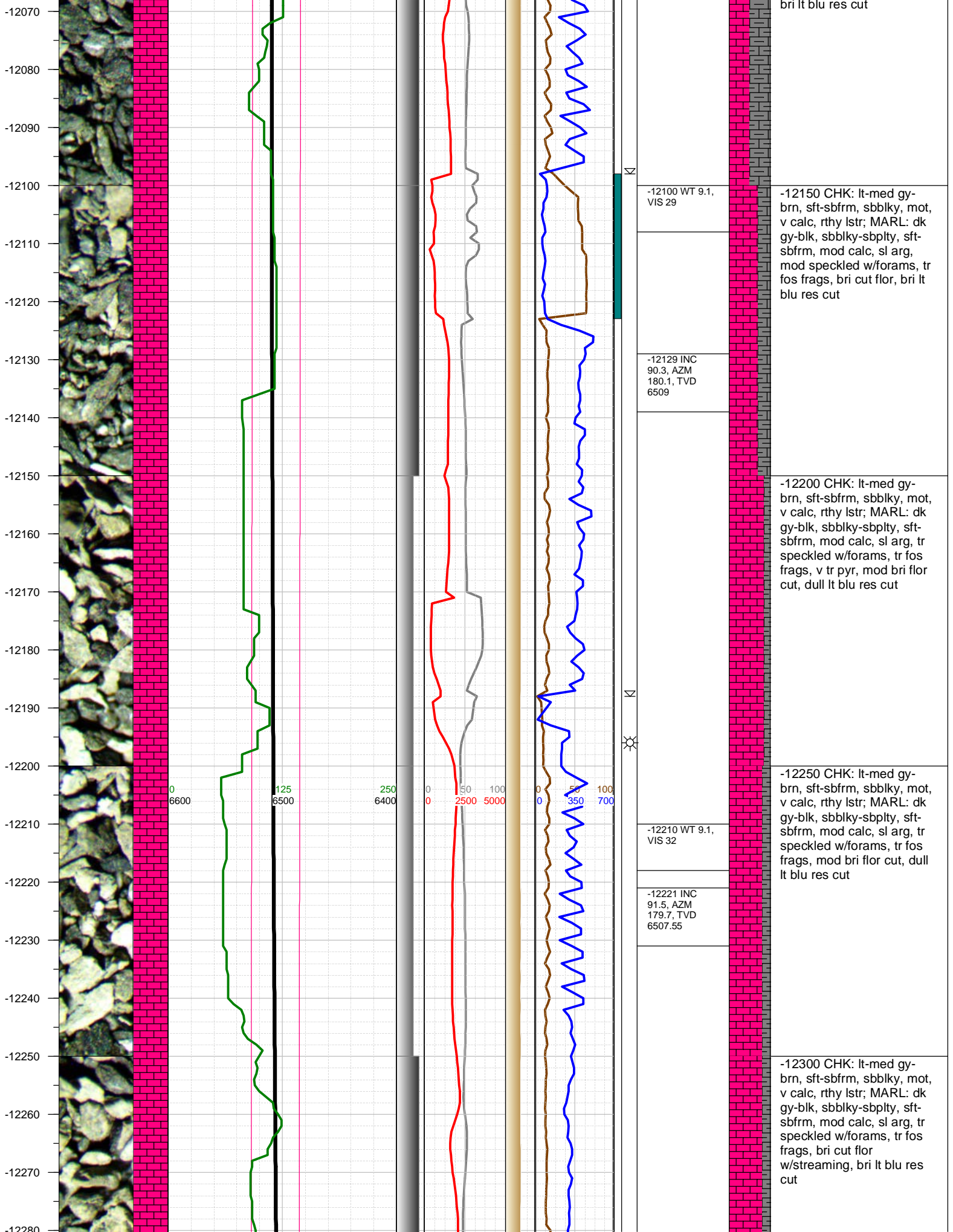
v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, mod fos frags, bri cut flor w/streaming, bri lt blu res cut

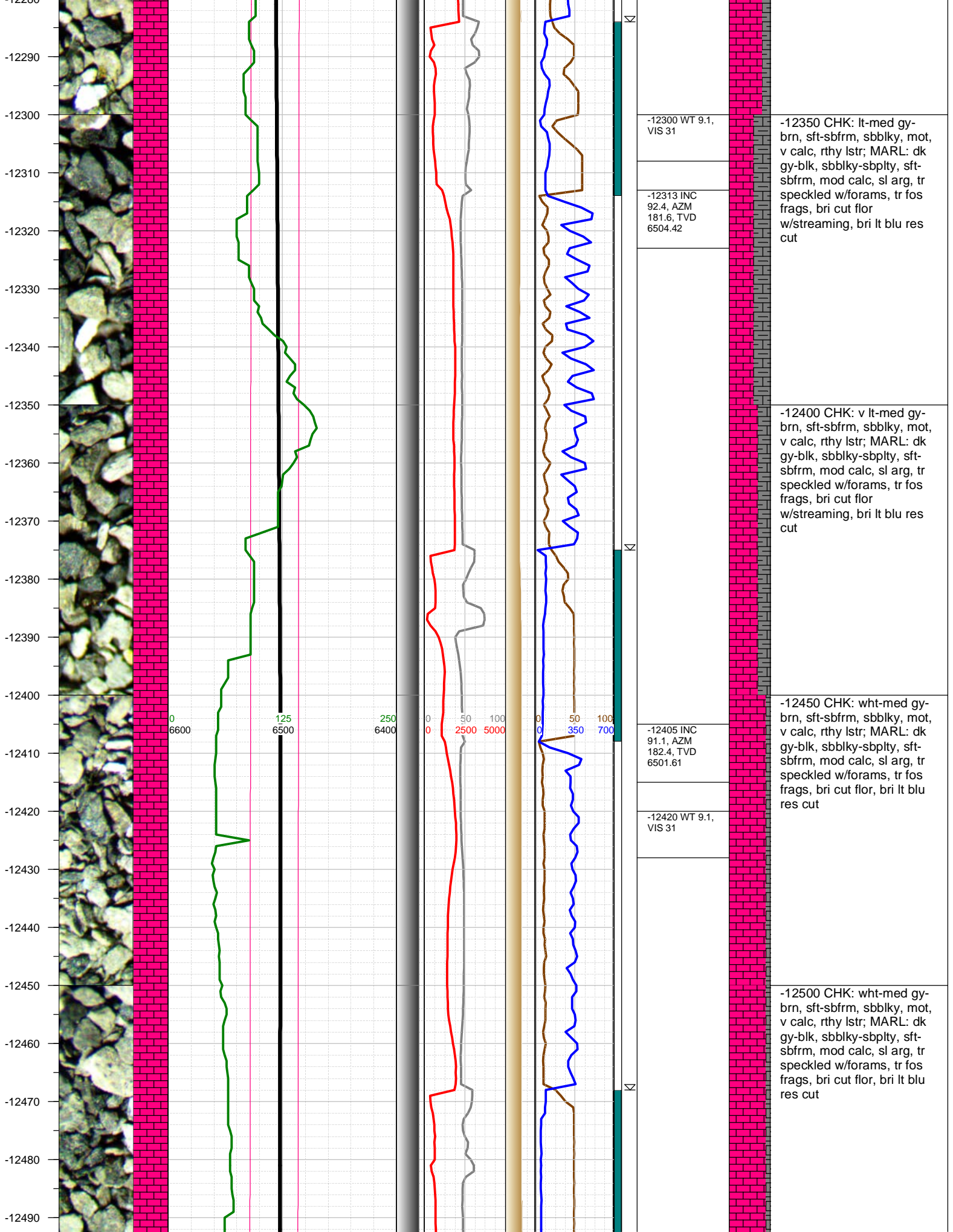
-11950 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr speckled w/forams, mod fos frags, bri cut flor, bri lt blu res cut

-12000 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, mod fos frags, v tr pyr, bri cut flor, bri lt blu res cut

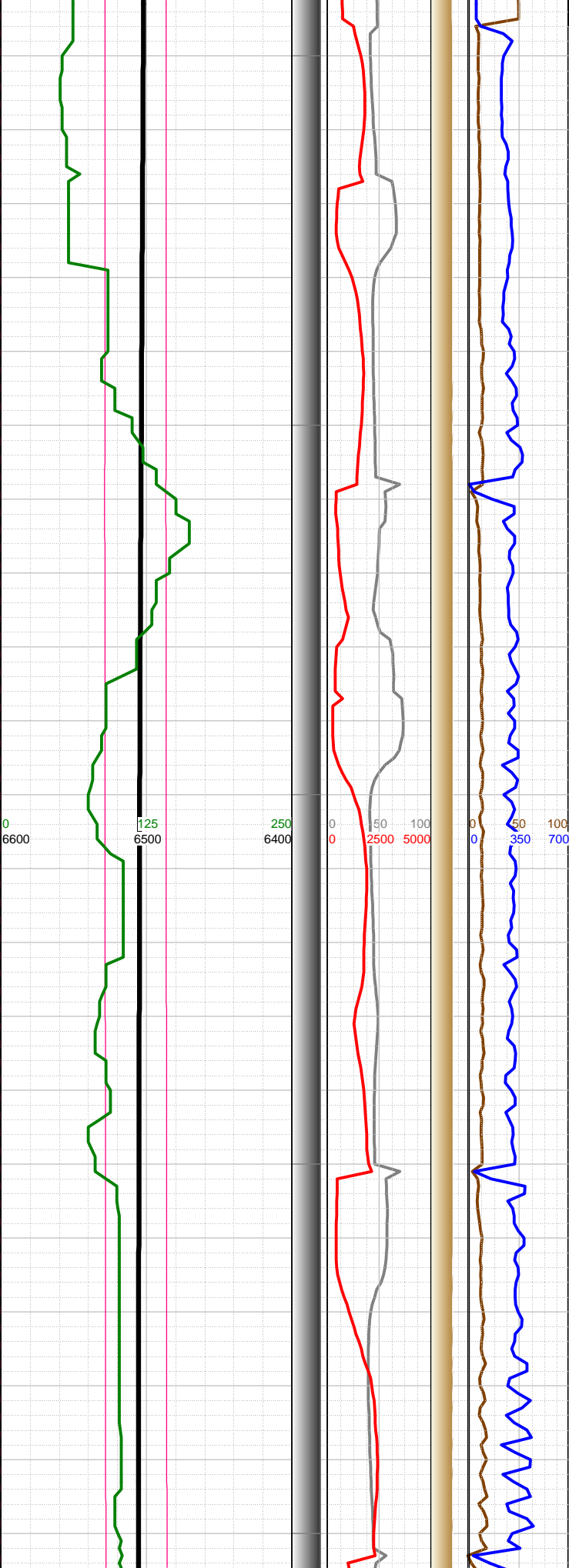
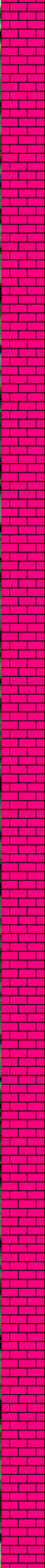
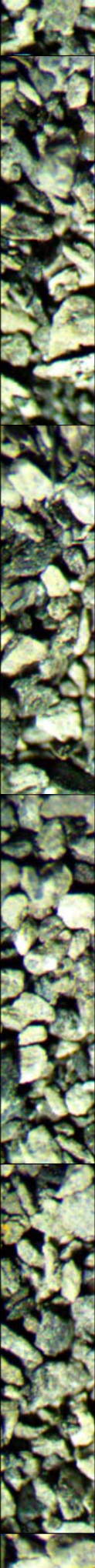
-12050 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr speckled w/forams, mod fos frags, bri cut flor, bri lt blu res cut

-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, bri cut flor,

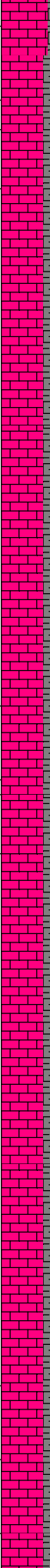




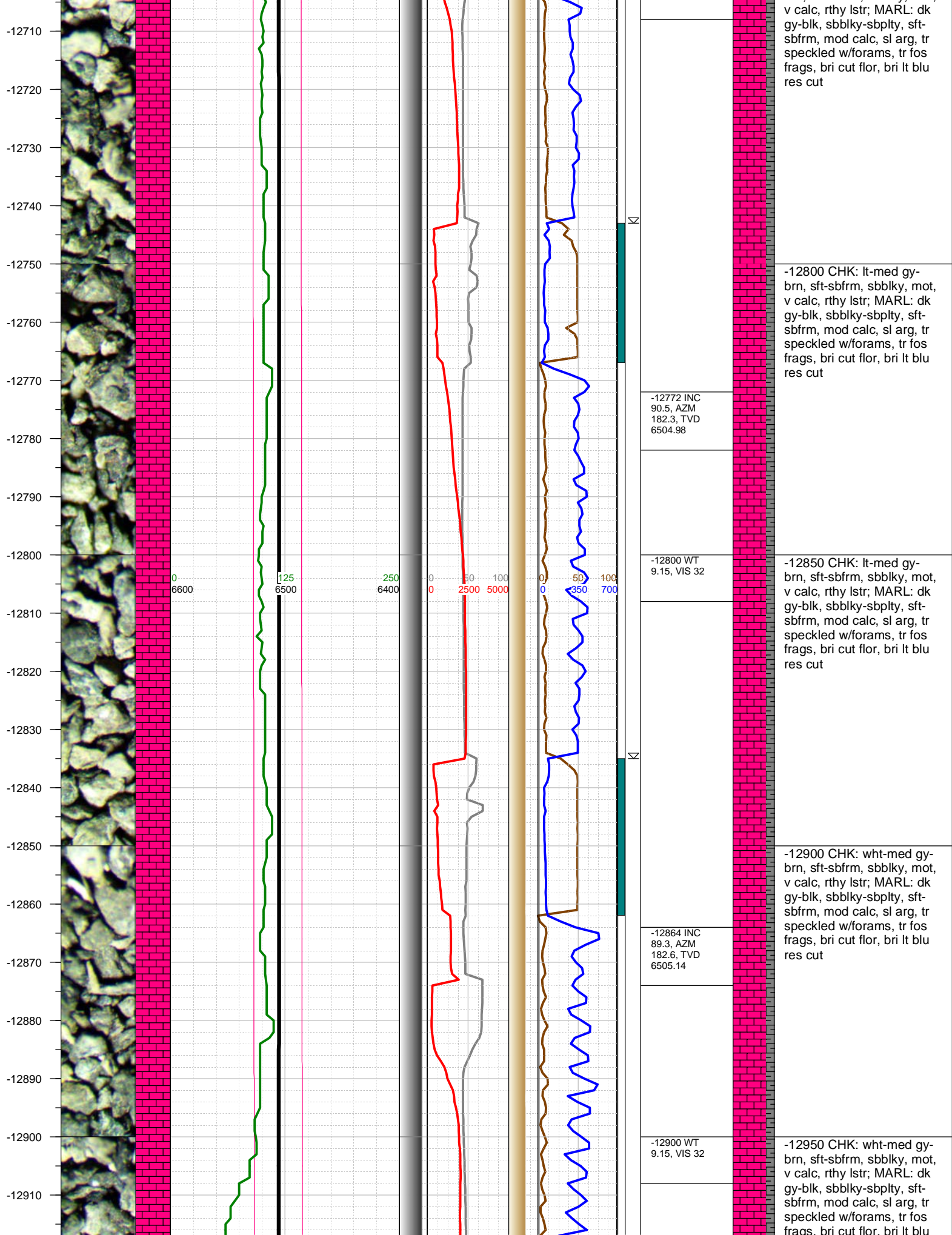
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-12496 INC 88.3, AZM 182.3, TVD 6502.09
-12510 WT 9.15, VIS 34
-12588 INC 88.7, AZM 181.6, TVD 6504.5
-12600 WT 9.15, VIS 33
-12680 INC 90.1, AZM 181.7, TVD 6505.46
-12700 WT 9.15, VIS 32



-12550 CHK: wht-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, bri lt blu res cut
-12600 CHK: wht-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, bri lt blu res cut
-12650 CHK: wht-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, bri lt blu res cut
-12700 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, bri lt blu res cut
-12750 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot,



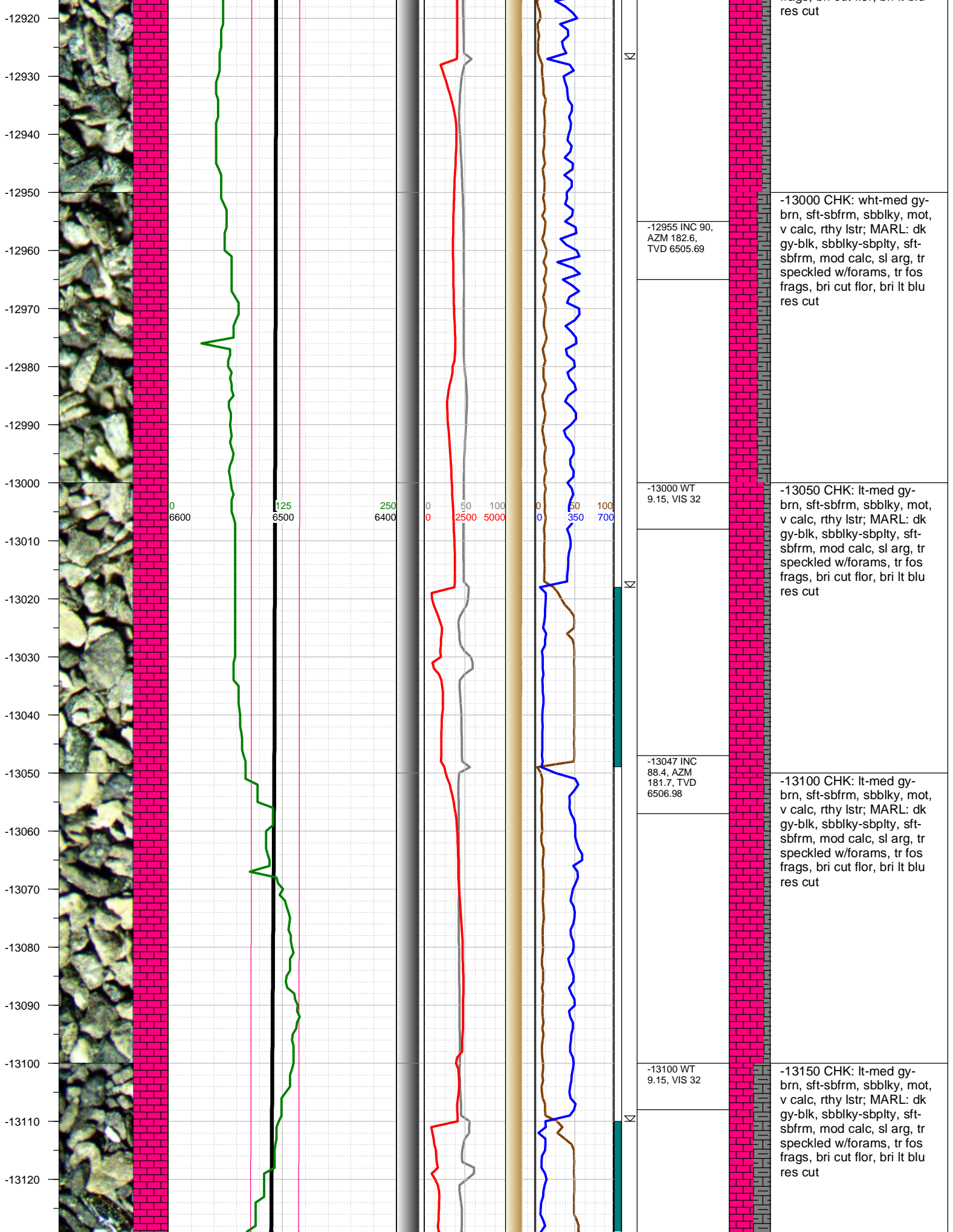
v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flr, bri lt blu res cut

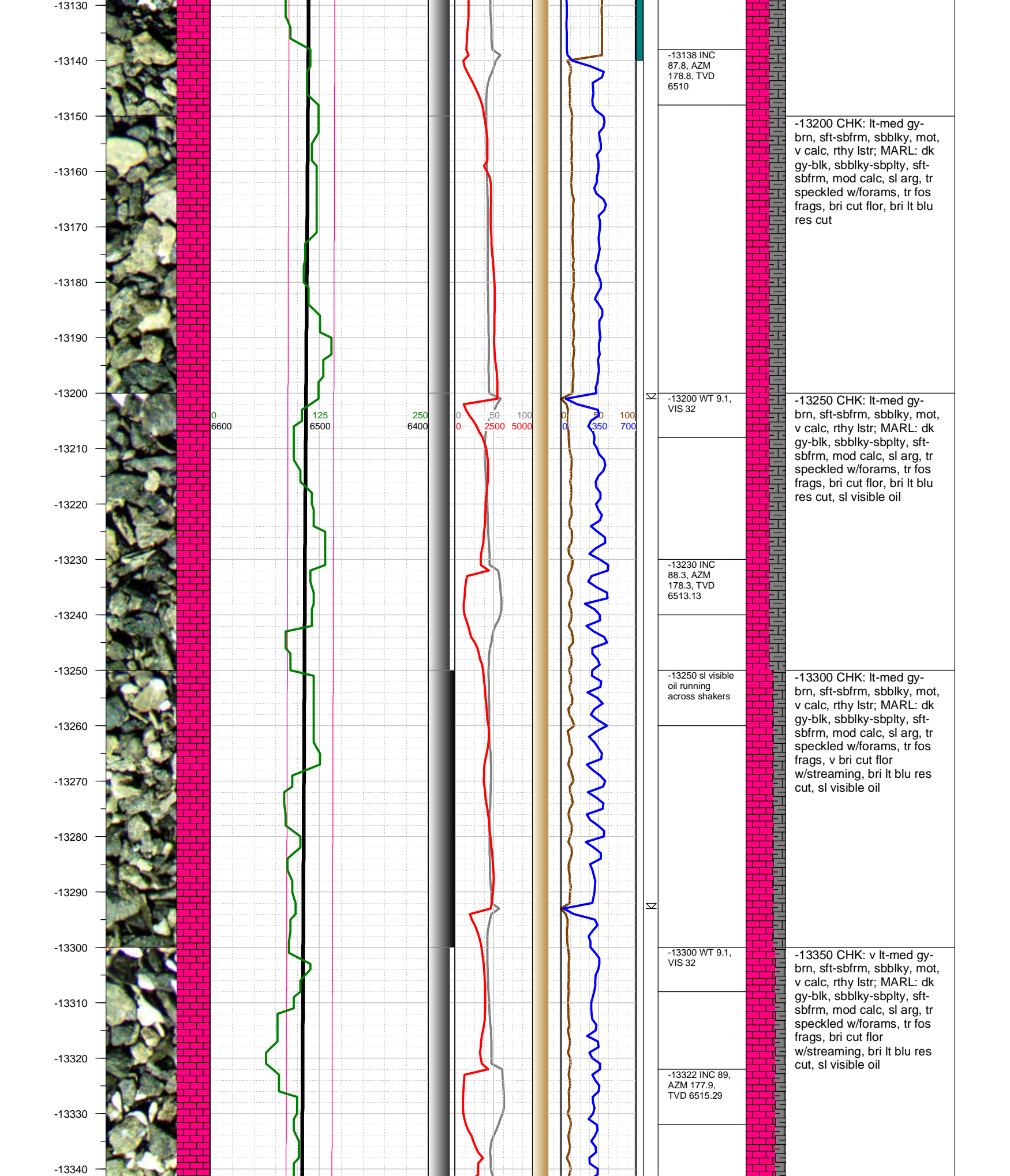
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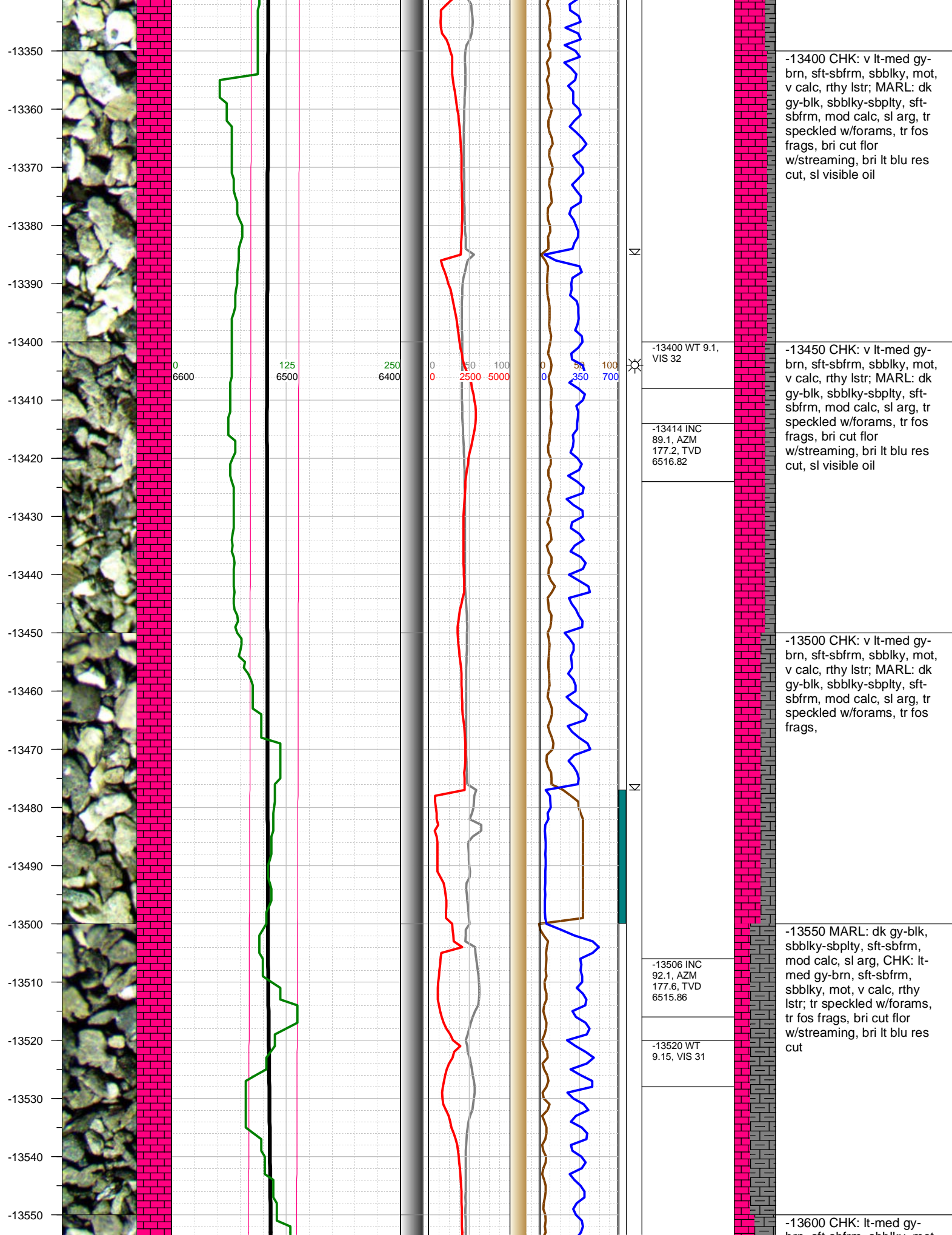
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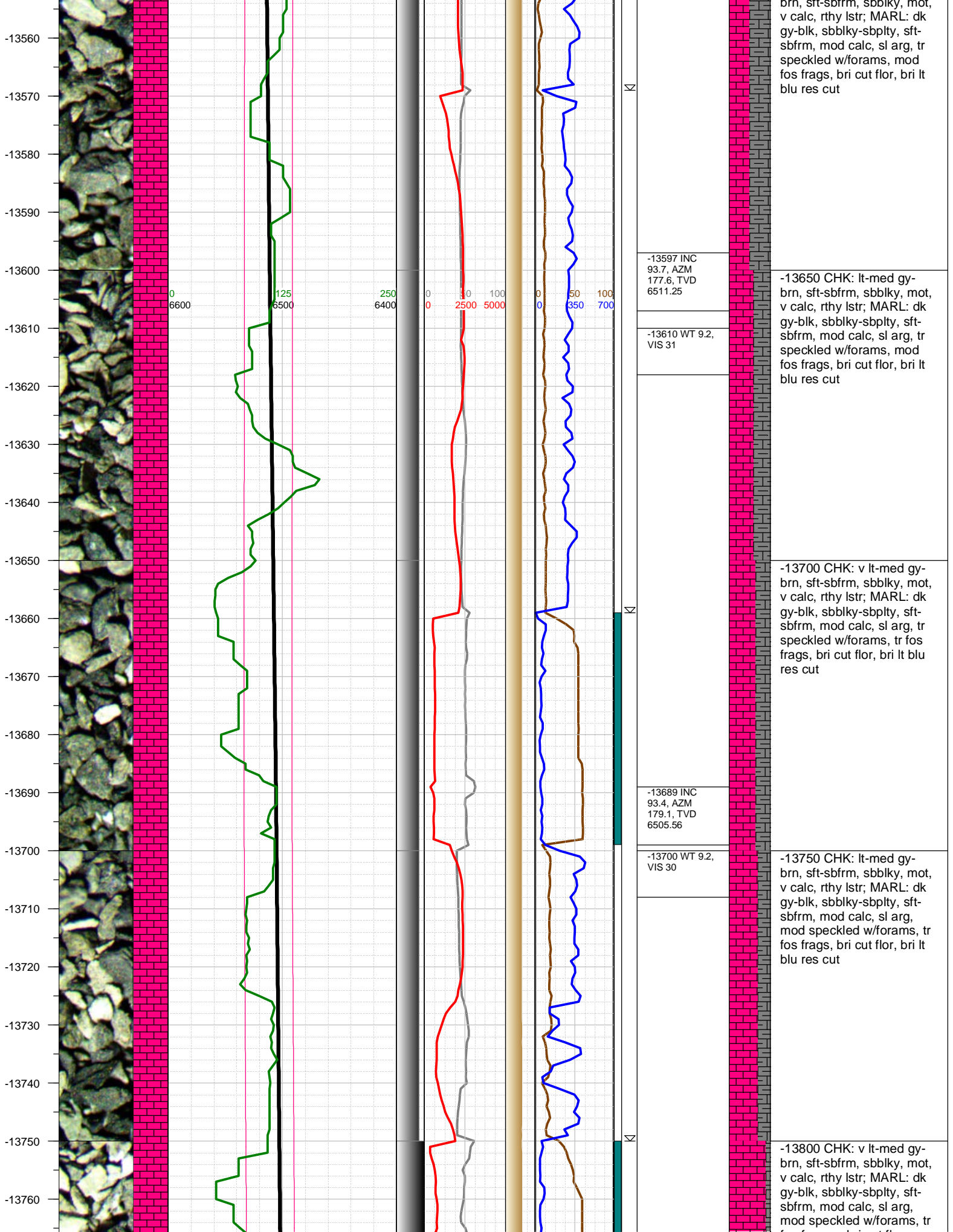
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-12950 CHK: wht-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, tr speckled w/forams, tr fos frags, bri cut flr, bri lt blu res cut

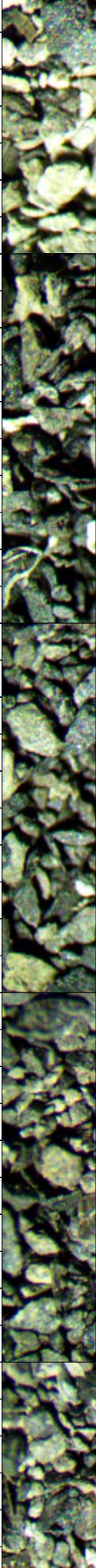








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-13890
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-13970



0
6600

125
6500

250
6400

0 50 100
0 2500 5000

0 50 100
0 350 700



-13781 INC
92.1, AZM
181.1, TVD
6501.14

-13800 WT 9.2,
VIS 31



-13845 TOO
for mud motor,
Bit #4 - Varrel
Vs513DGL,
5x18, 6.125"

-13845 0000 hrs
on 7/10/2015

-13872 INC
89.9, AZM
182.4, TVD
6499.55

-13900 WT
9.05, VIS 32



-13964 INC
88.8, AZM
182.7, TVD
6500.6

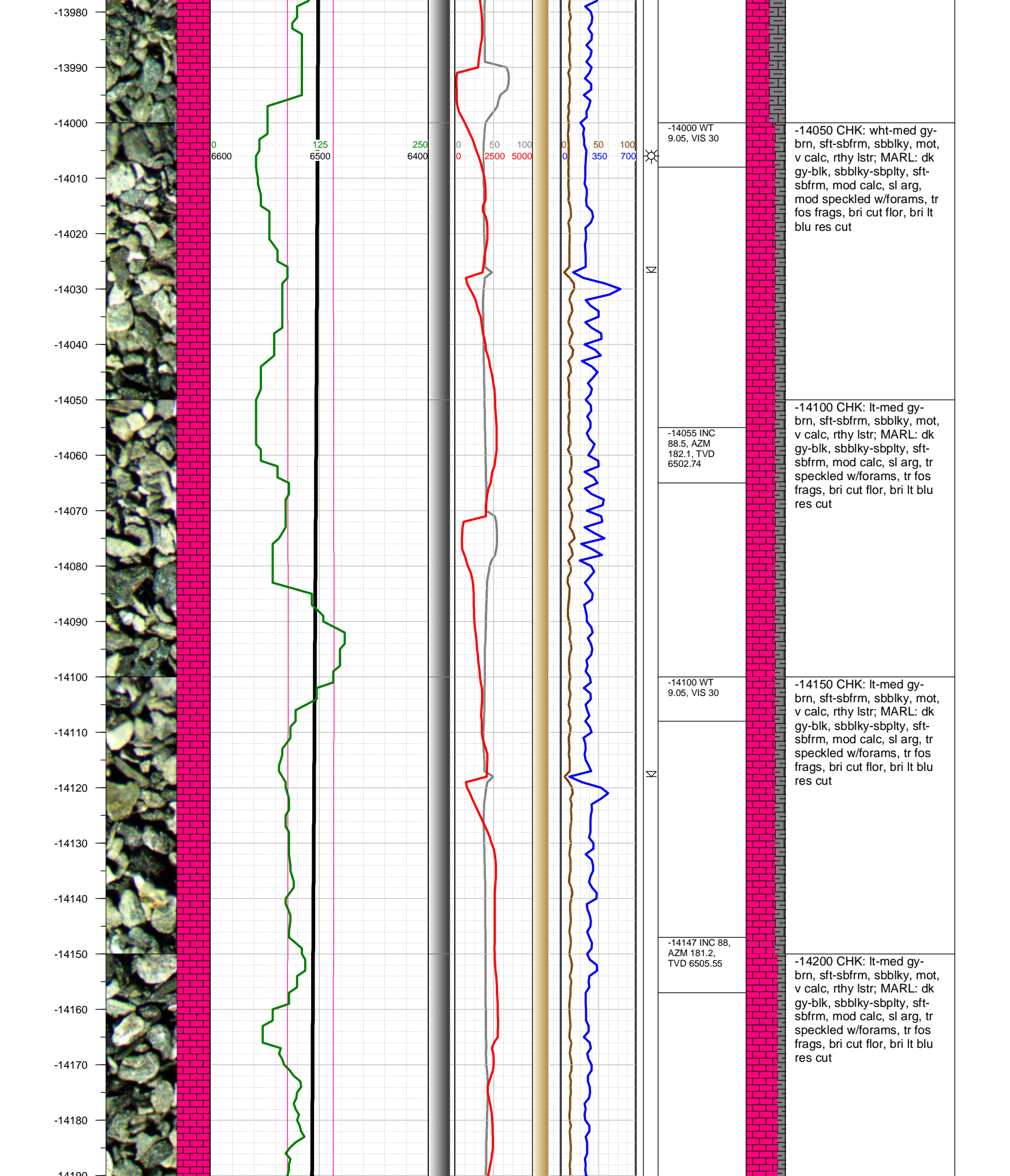
fos frags, v bri cut flor
w/streaming, bri lt blu res
cut

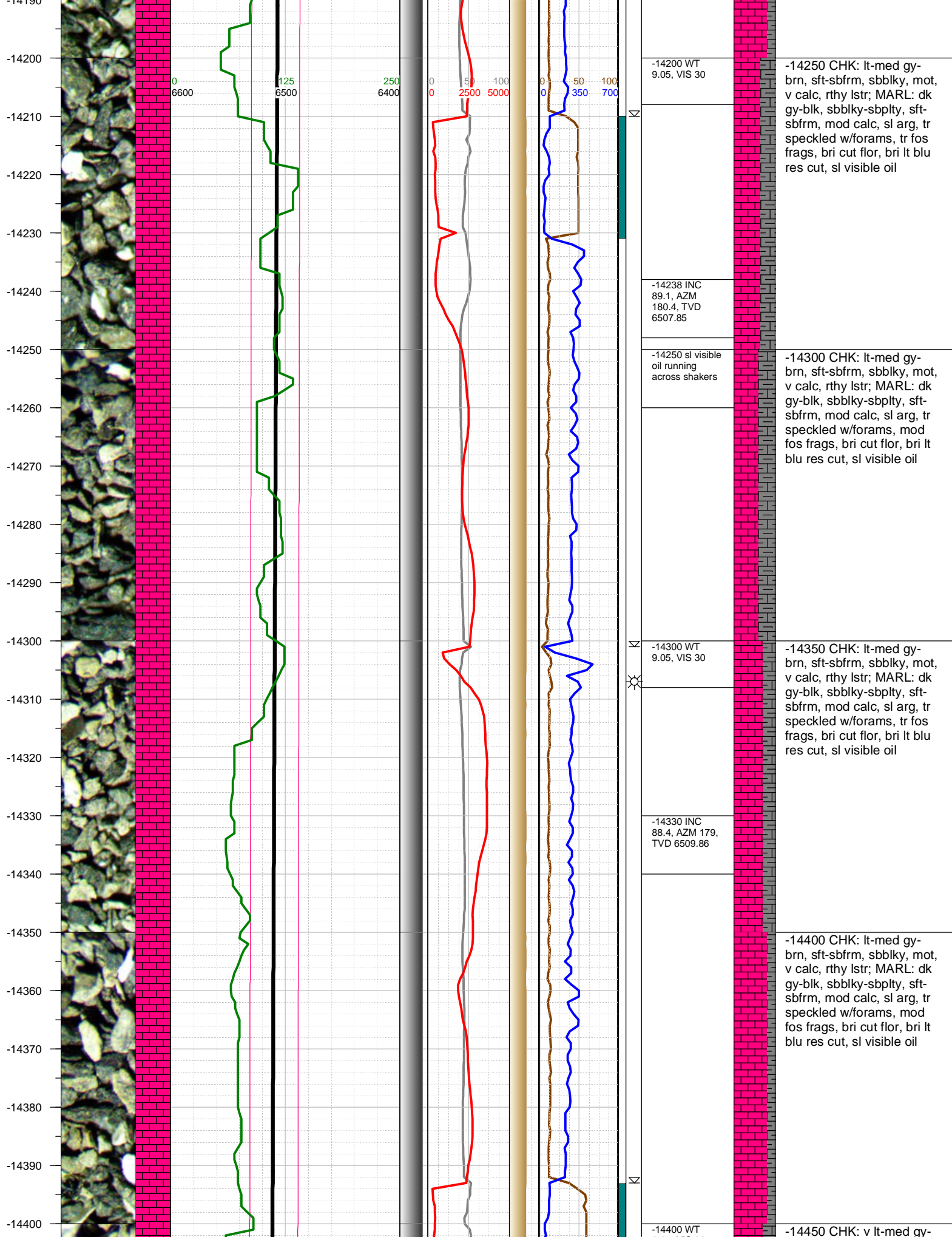
-13850 CHK: med gy-brn,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg,
mod speckled w/forams, tr
fos frags, bri cut flor
w/streaming, bri lt blu res
cut

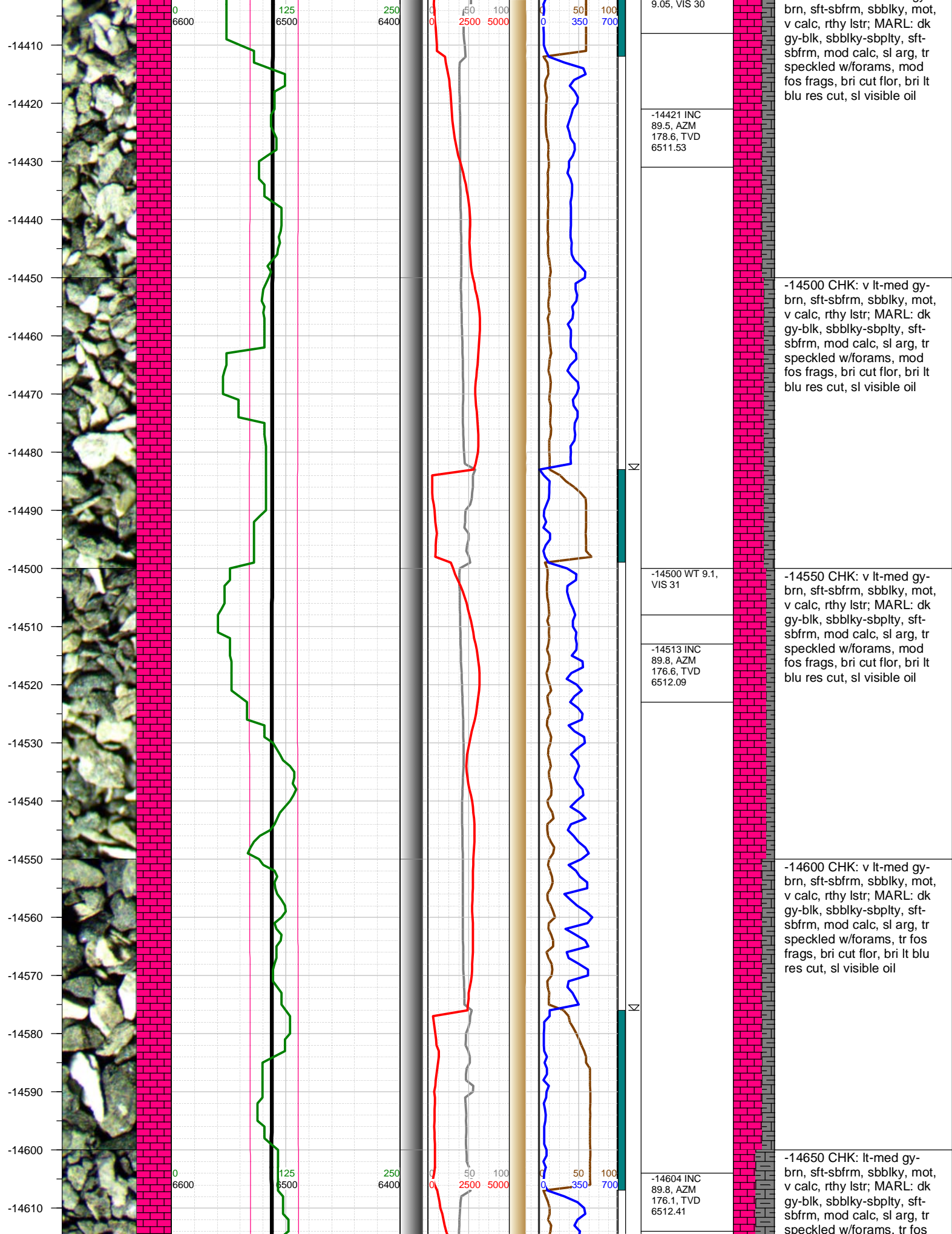
-13900 CHK: med gy-brn,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg,
mod speckled w/forams, tr
fos frags, bri cut flor
w/streaming, bri lt blu res
cut

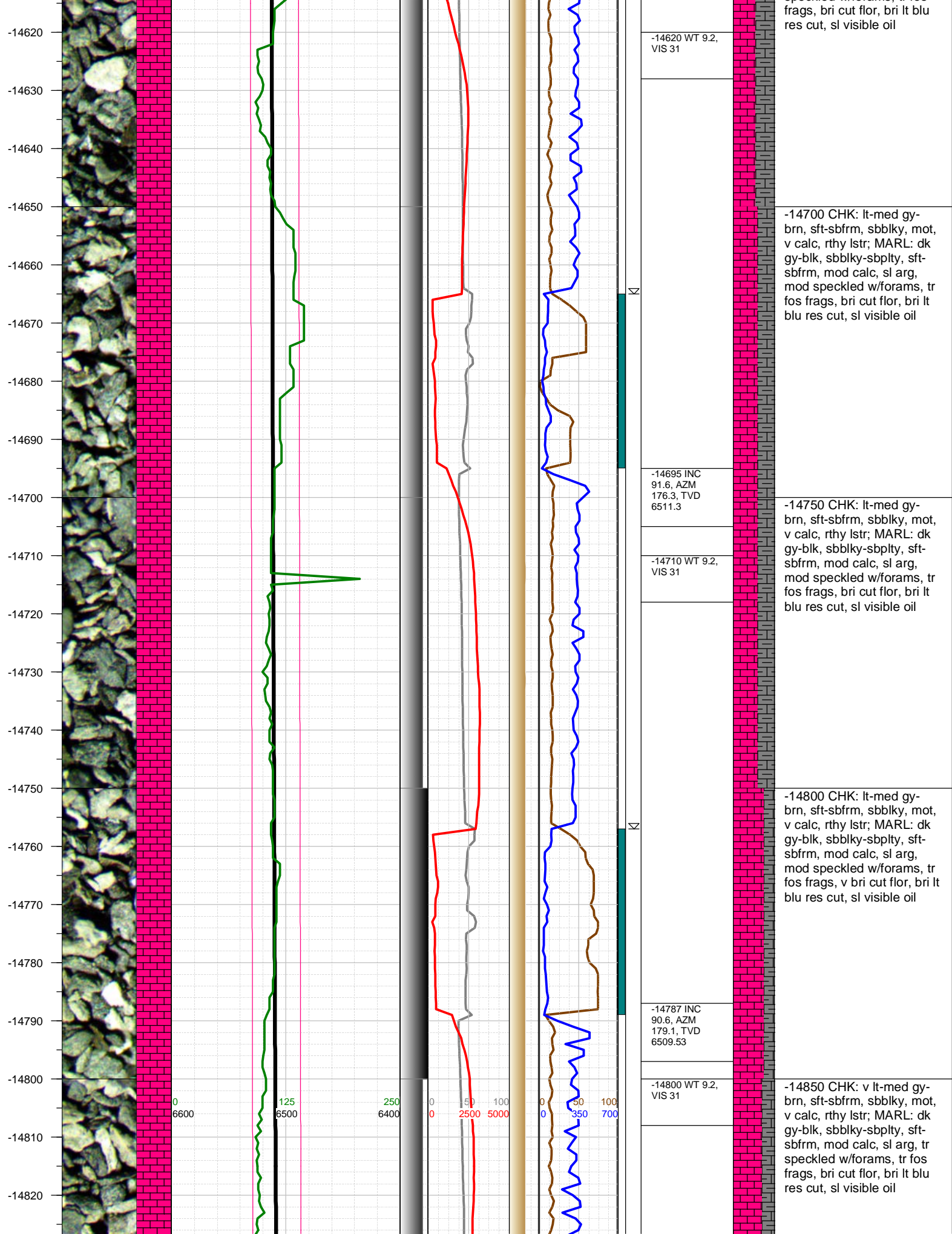
-13950 CHK: med gy-brn,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg,
mod speckled w/forams, tr
fos frags, bri cut flor, bri lt
blu res cut

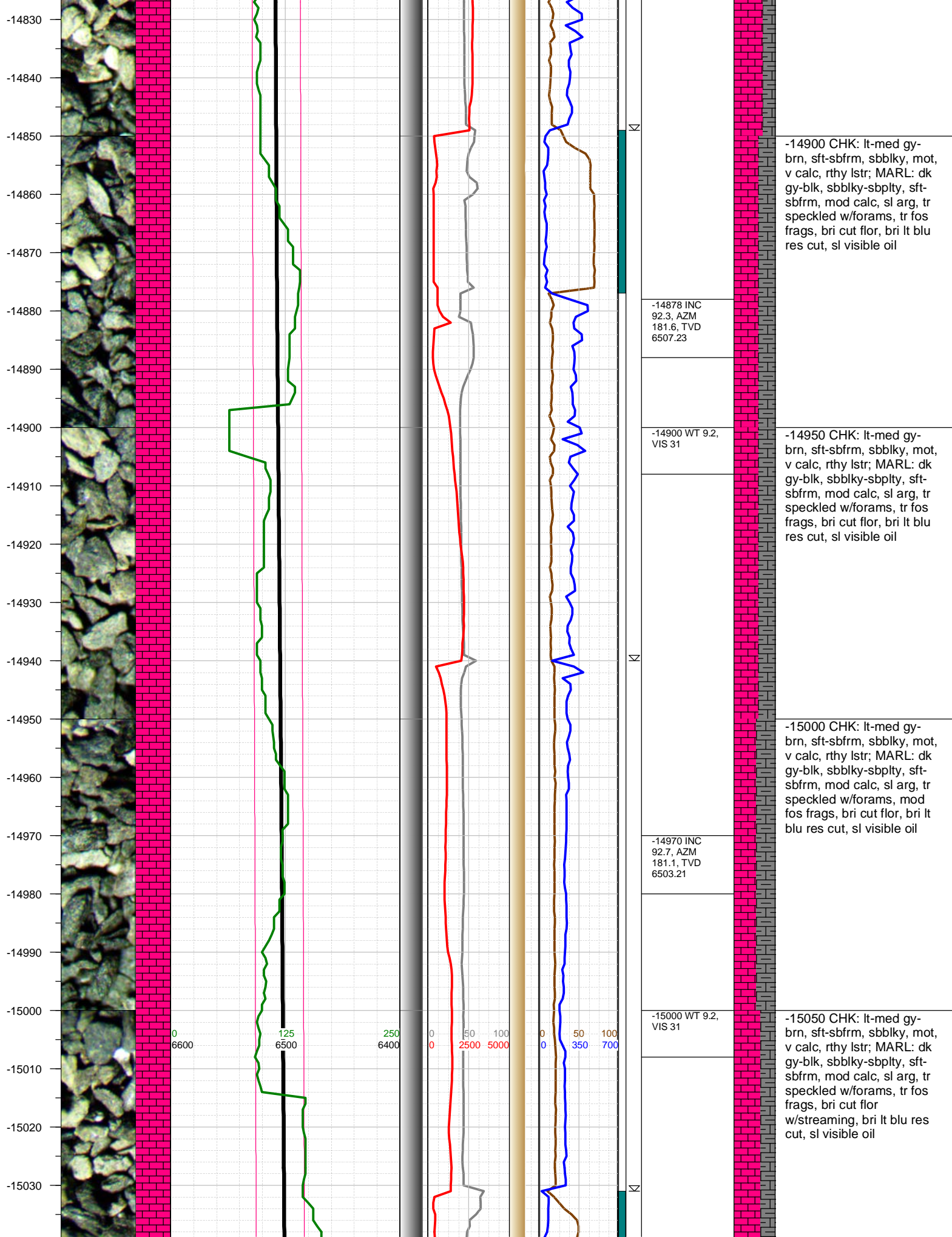
-14000 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg,
mod speckled w/forams, tr
fos frags, bri cut flor, bri lt
blu res cut

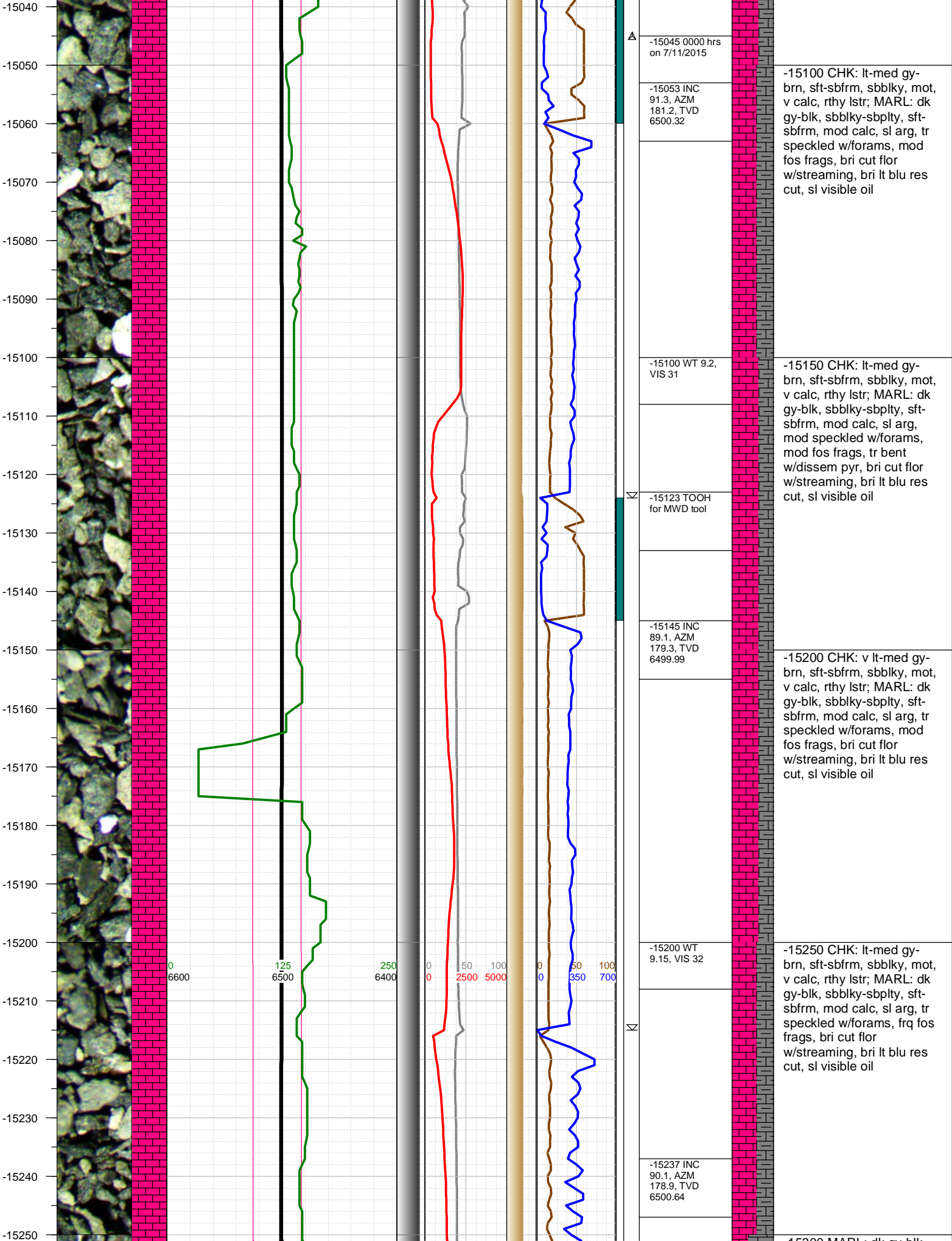


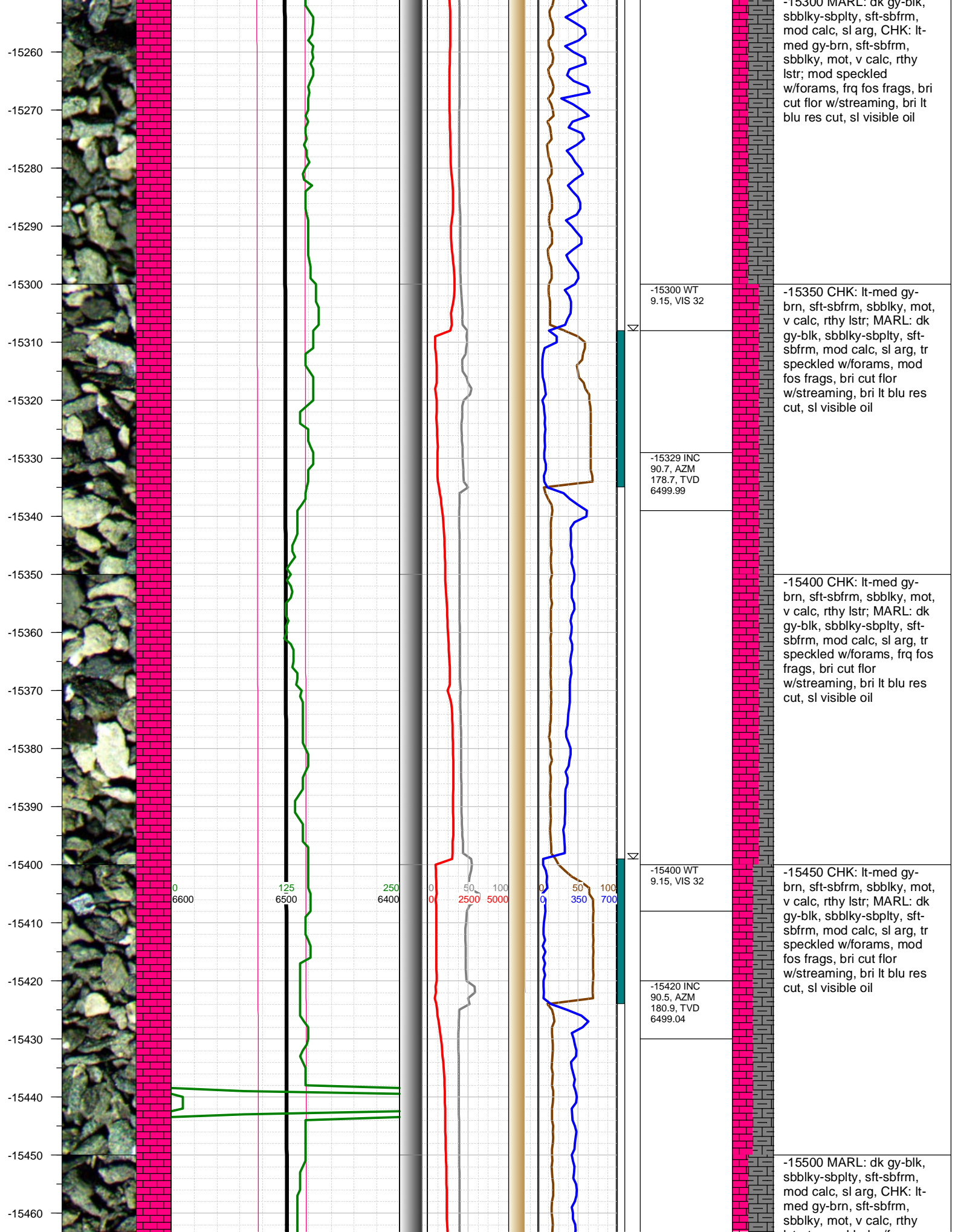


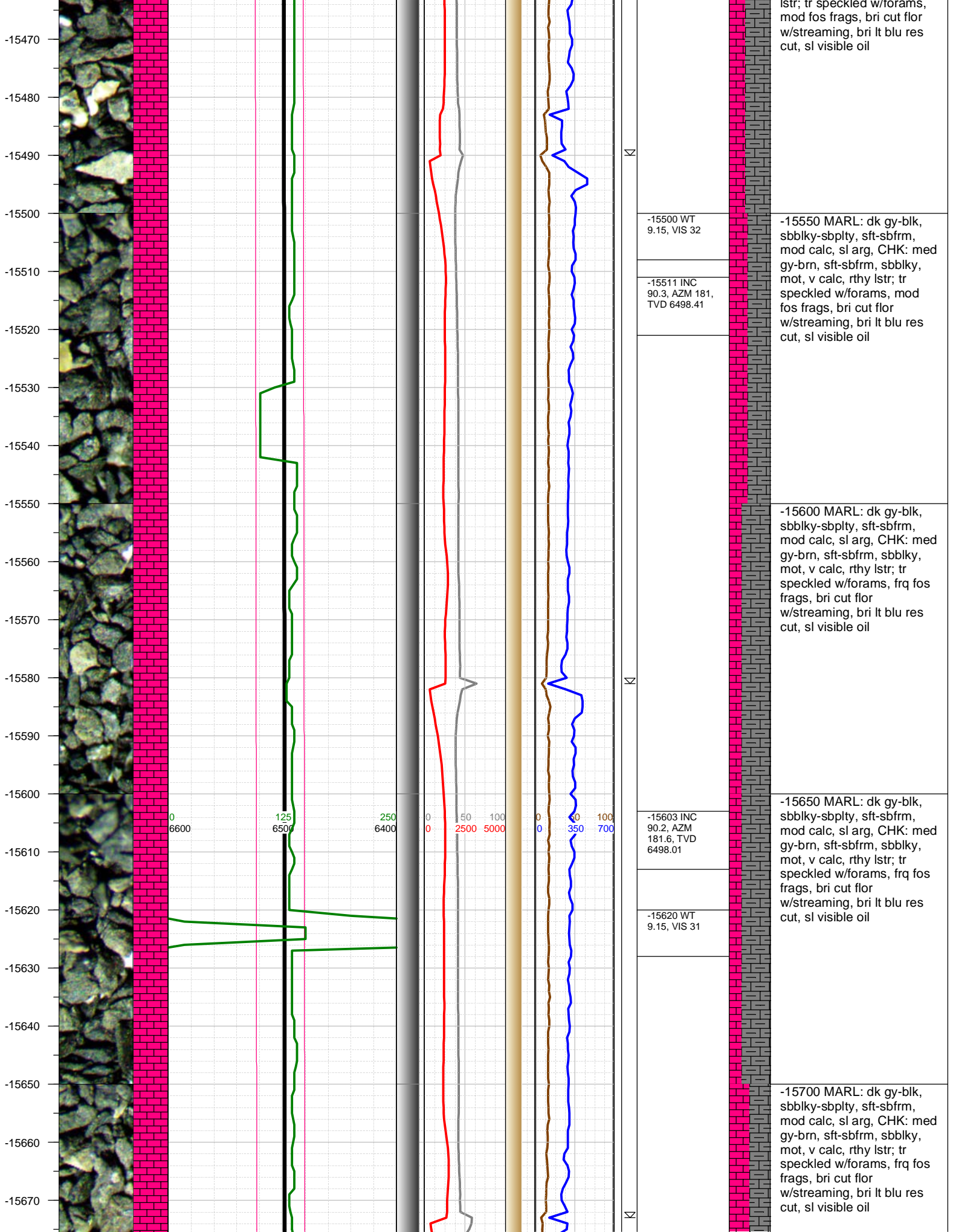




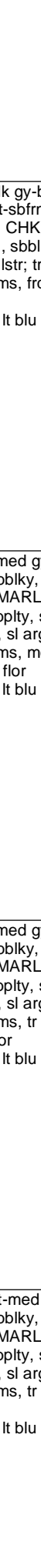
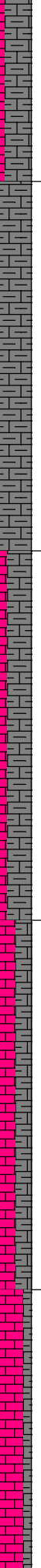
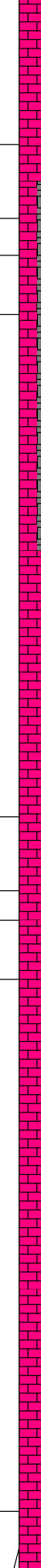
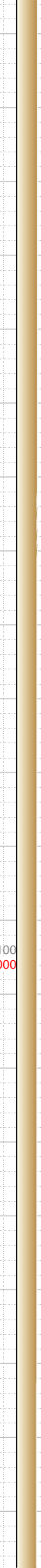
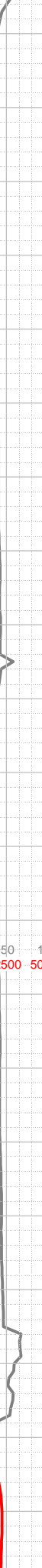
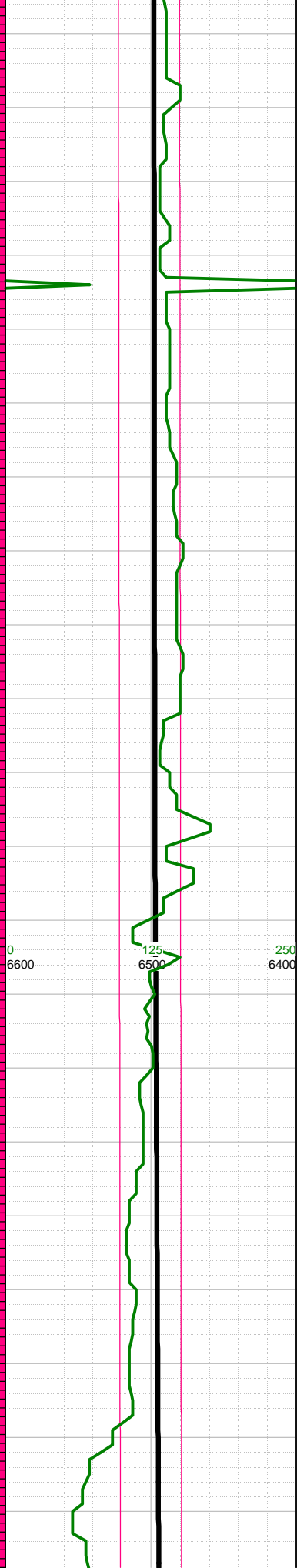
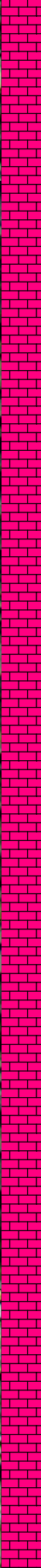
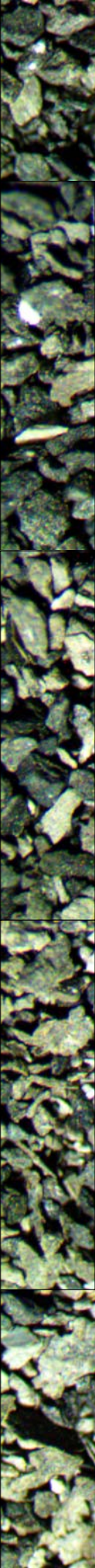








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-15695 INC 90,
AZM 181.8,
TVD 6497.84

-15710 WT
9.15, VIS 31

-15786 INC
90.6, AZM
181.6, TVD
6497.37

-15800 WT
9.15, VIS 31

-15880 INC
92.5, AZM
180.5, TVD
6494.83

-15750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg, CHK: med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr speckled w/forams, frq fos frags, bri cut flor w/streaming, bri lt blu res cut, sl visible oil

-15800 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, mod fos frags, bri cut flor w/streaming, bri lt blu res cut, sl visible oil

-15850 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 flor w/streaming, bri lt blu res cut, sl visible oil

-15900 CHK: v 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, sl visible oil

