

OPERATOR: **Bill Barrett Corp**

WELL NAME: Anschutz Equus Farms 4-62-9-3225B2

SCALE: 5" = 100'

FIELD NAME: Wattenberg

SURFACE HOLE: 2360 FSL, 250 FWL

DRILLING RIG: Cade 24

API #: 05-123-42151



Earth Science Agency, LLC

COUNTY: Weld

STATE: Colorado

GROUND ELEVATION: 4528'

KELLY BUSHING: 4544'

DRILLING FLUID: LSND

TVD VS. MD: 6121' / 16003'

SPUD DATE: November 11, 2015

BEGIN LOGGING: 4500'; January 19, 2016

TD DATE: January 24, 2016

DATES LOGGED: January 19, 2016 - January 24, 2016

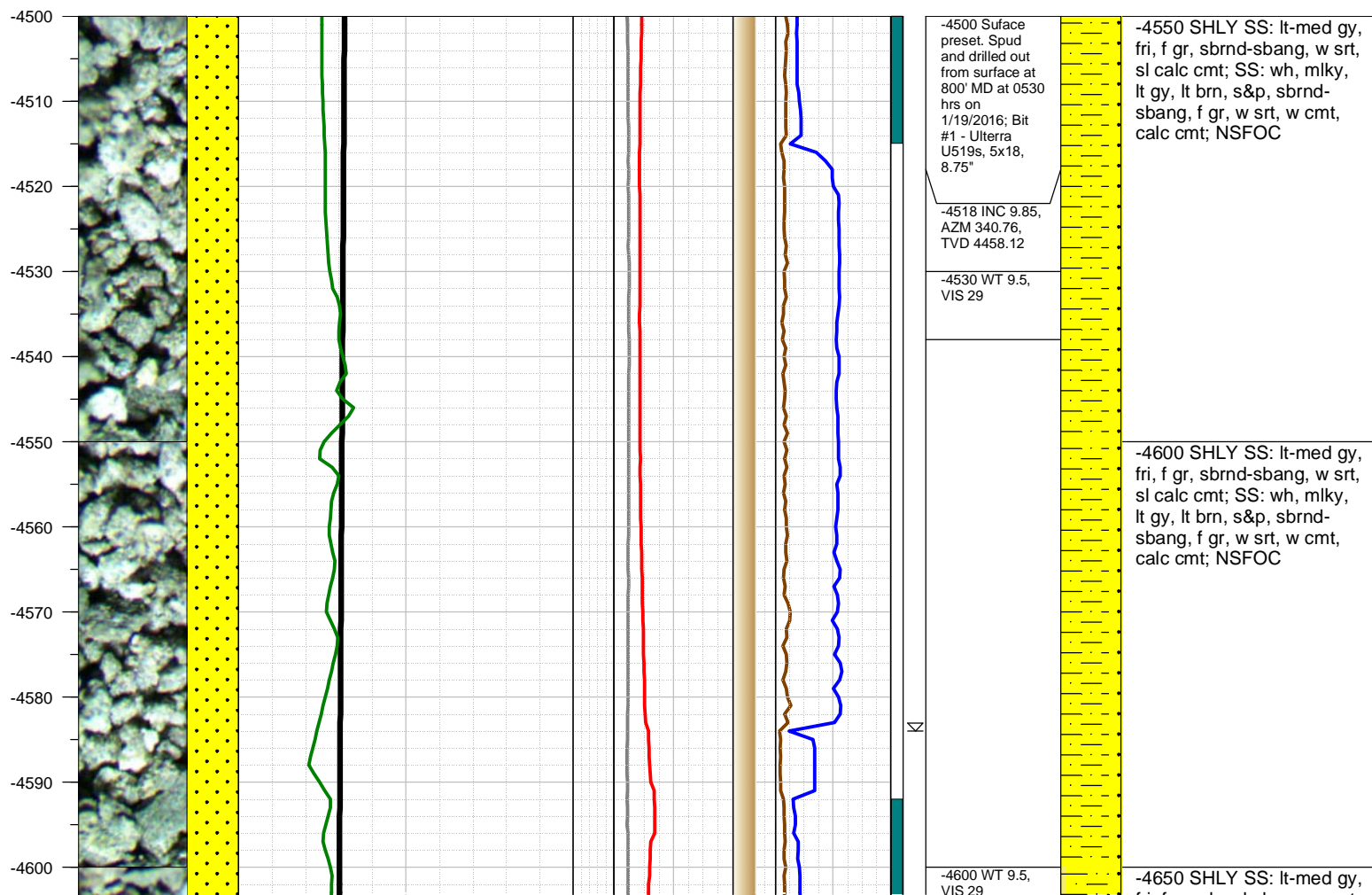
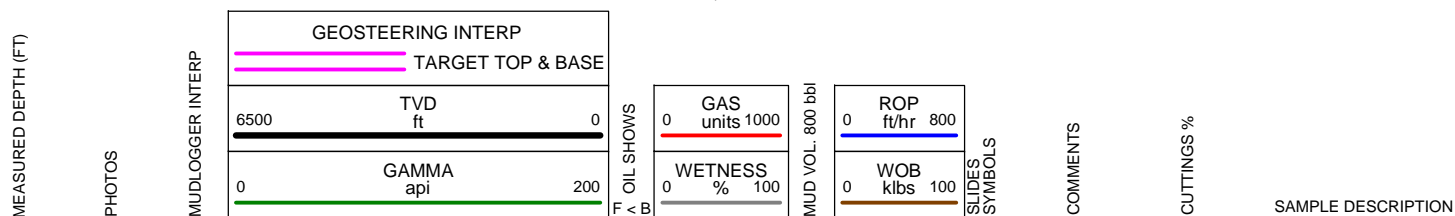
DEPTHS LOGGED: 4500' - 16003'

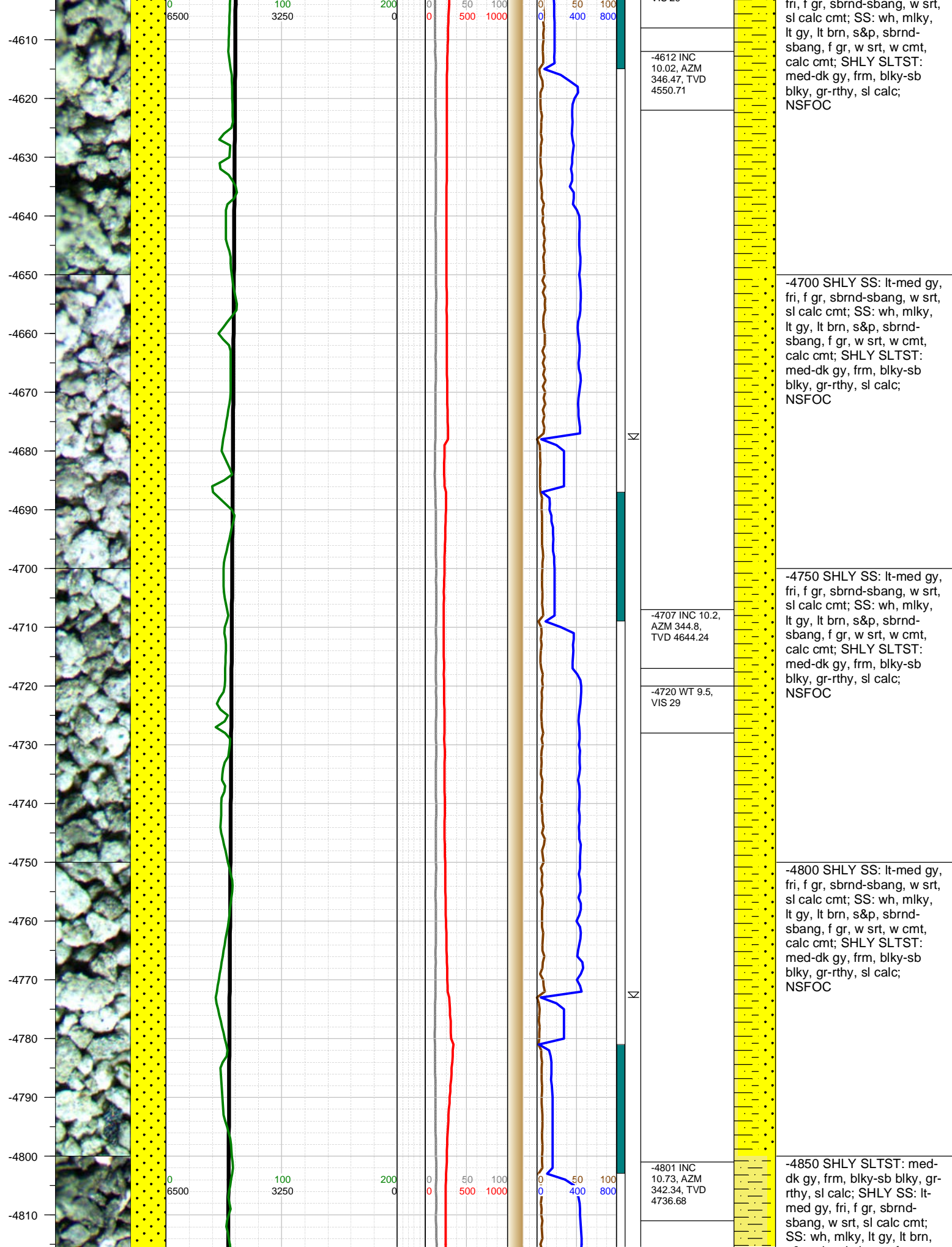
LOGGER: Blue Spikes, Joe Coon

LEGEND

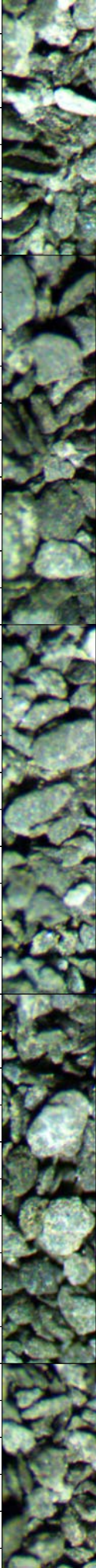
	CHALK		SHALE
	LIMESTONE		SILTY SHALE
	SHALY LIMESTONE		SHALY SILTSTONE
	MARLSTONE		SHALY SANDSTONE
	CALCAREOUS SHALE		SANDSTONE
	DOLOMITE		ANHYDRITE

FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT





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3250

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500

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1000

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400

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-4818 Top Shannon Formation; 4753' TVD
-4830 WT 9.5, VIS 29
-4895 INC 9.41, AZM 340.76, TVD 4829.23
-4910 WT 9.5, VIS 29
-4989 INC 7.3, AZM 340.85, TVD 4922.22
-5000 WT 9.5, VIS 29

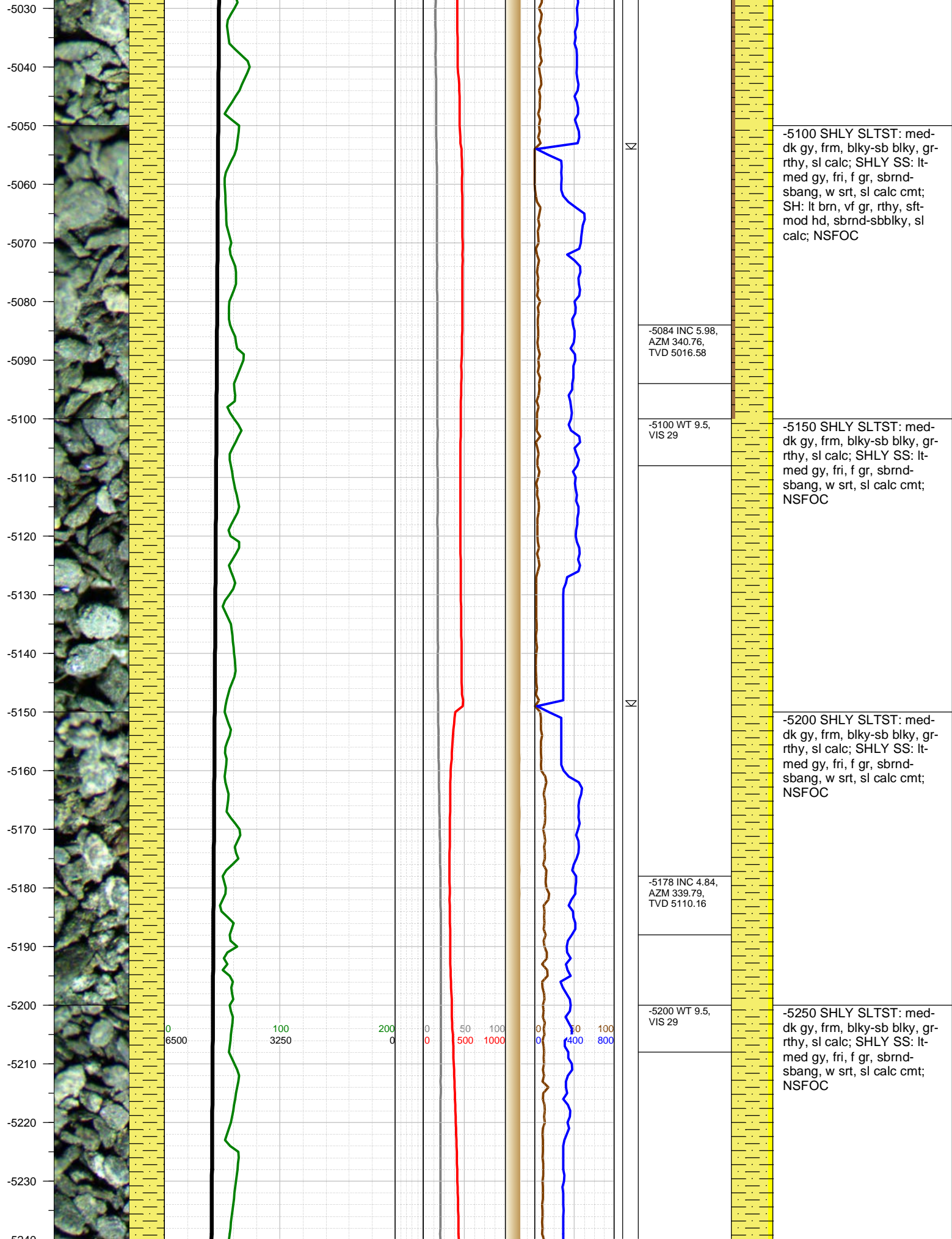
s&p, sbrnd-sbang, f gr, w
srt, w cmt, calc cmt;
NSFOC

-4900 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;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbblk-y, sl
calc; NSFOC

-4950 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;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbblk-y, sl
calc; NSFOC

-5000 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;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbblk-y, sl
calc; NSFOC

-5050 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;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbblk-y, sl
calc; NSFOC

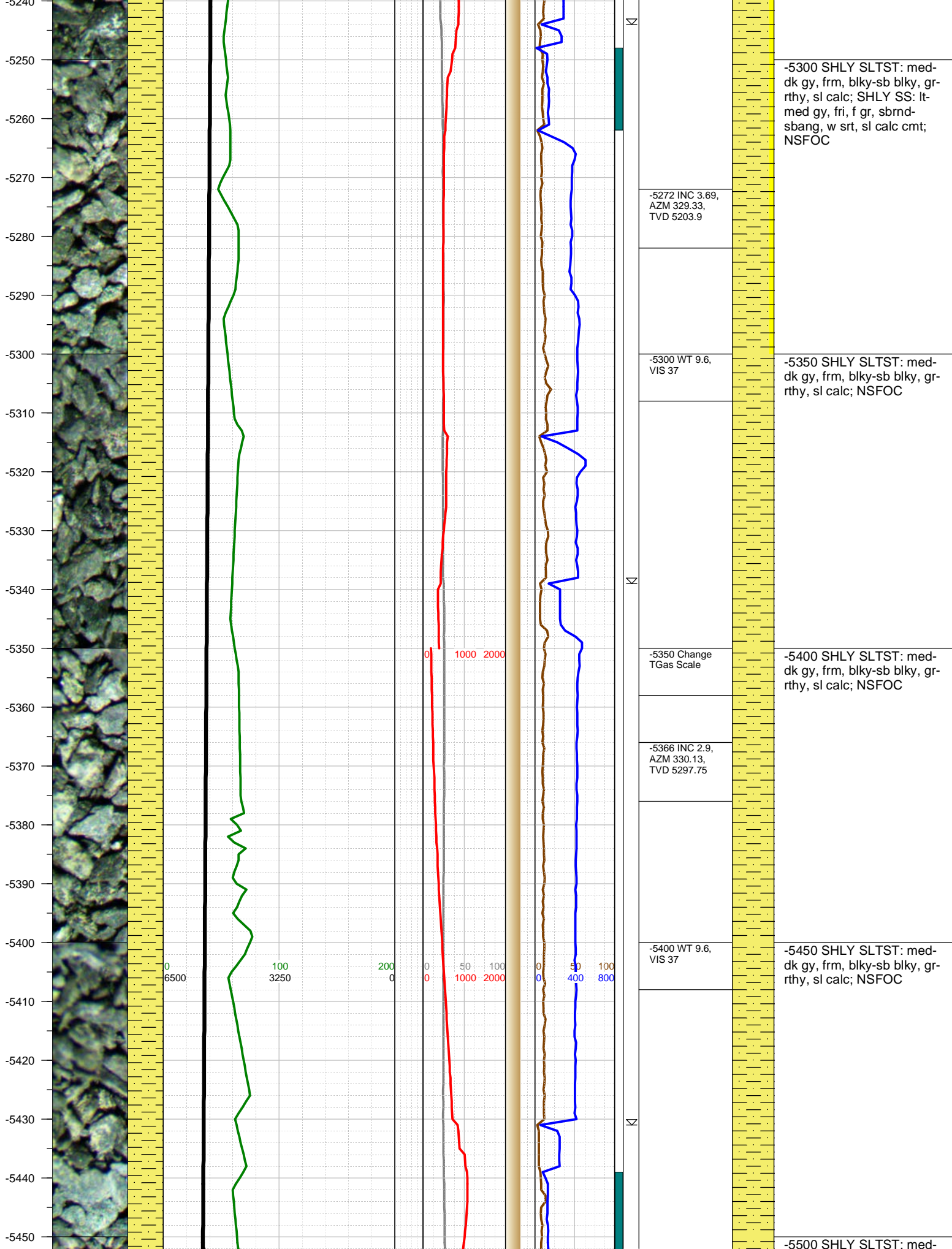


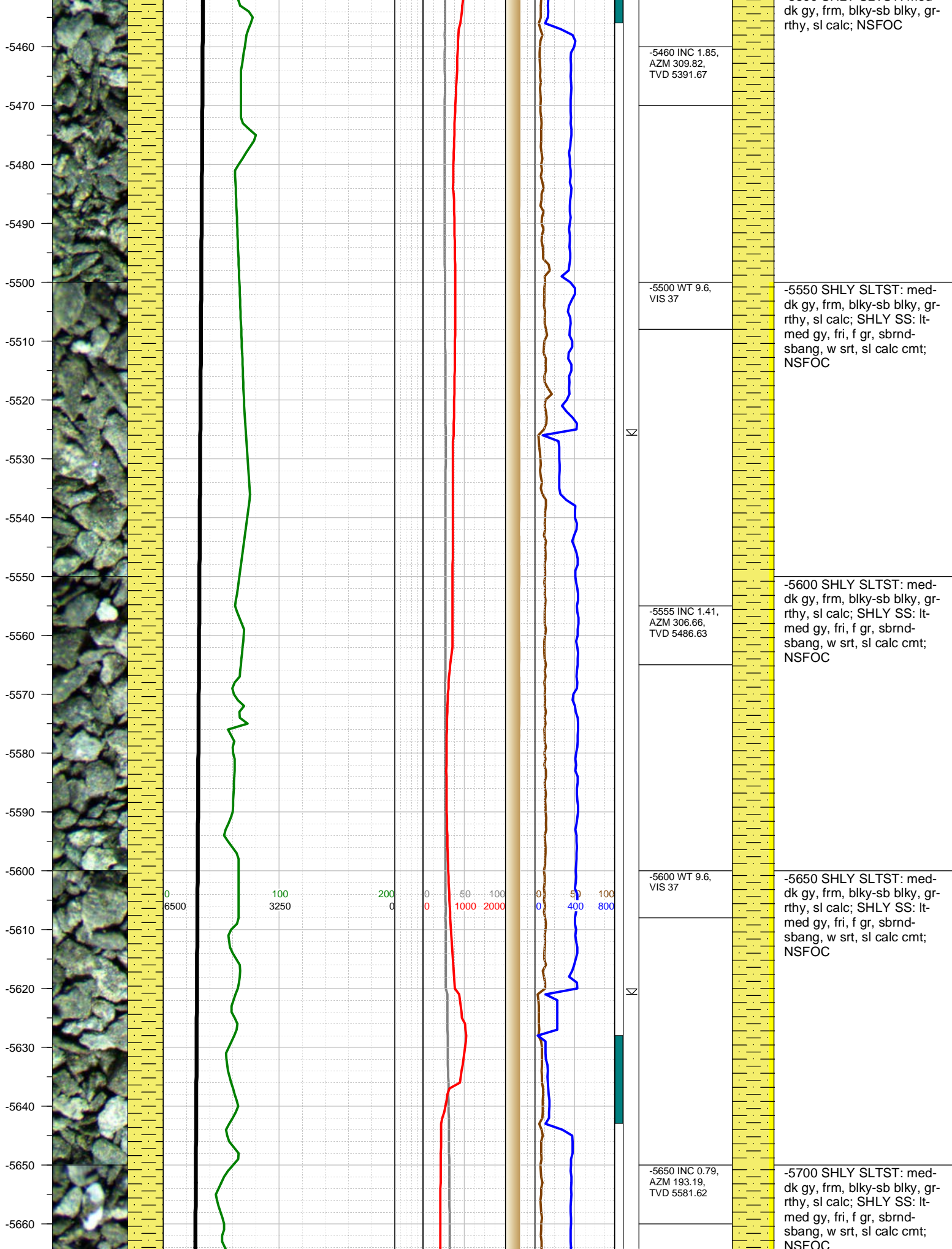
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rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbblk, sl
calc; NSFOC

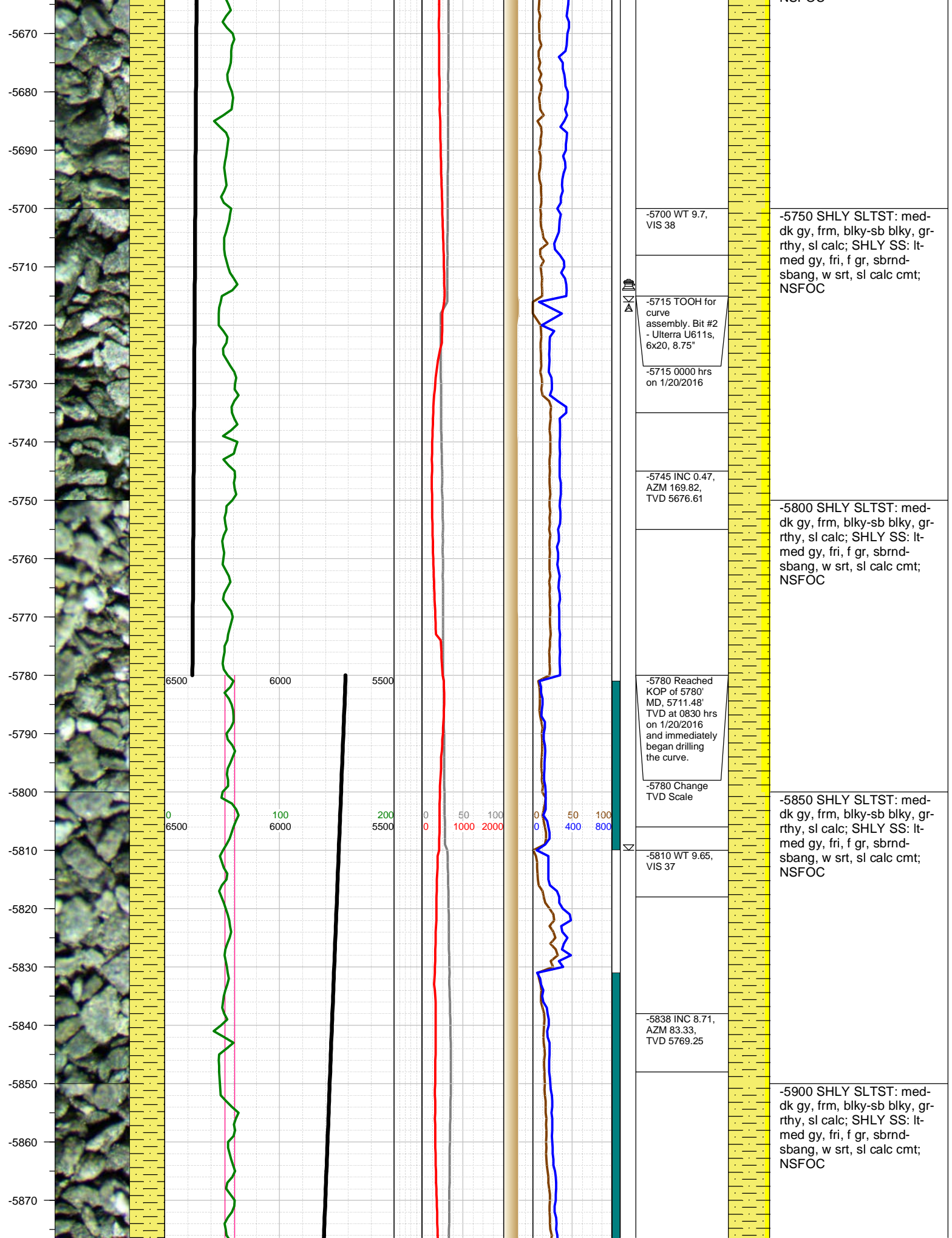
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sbang, w srt, sl calc cmt;
NSFOC

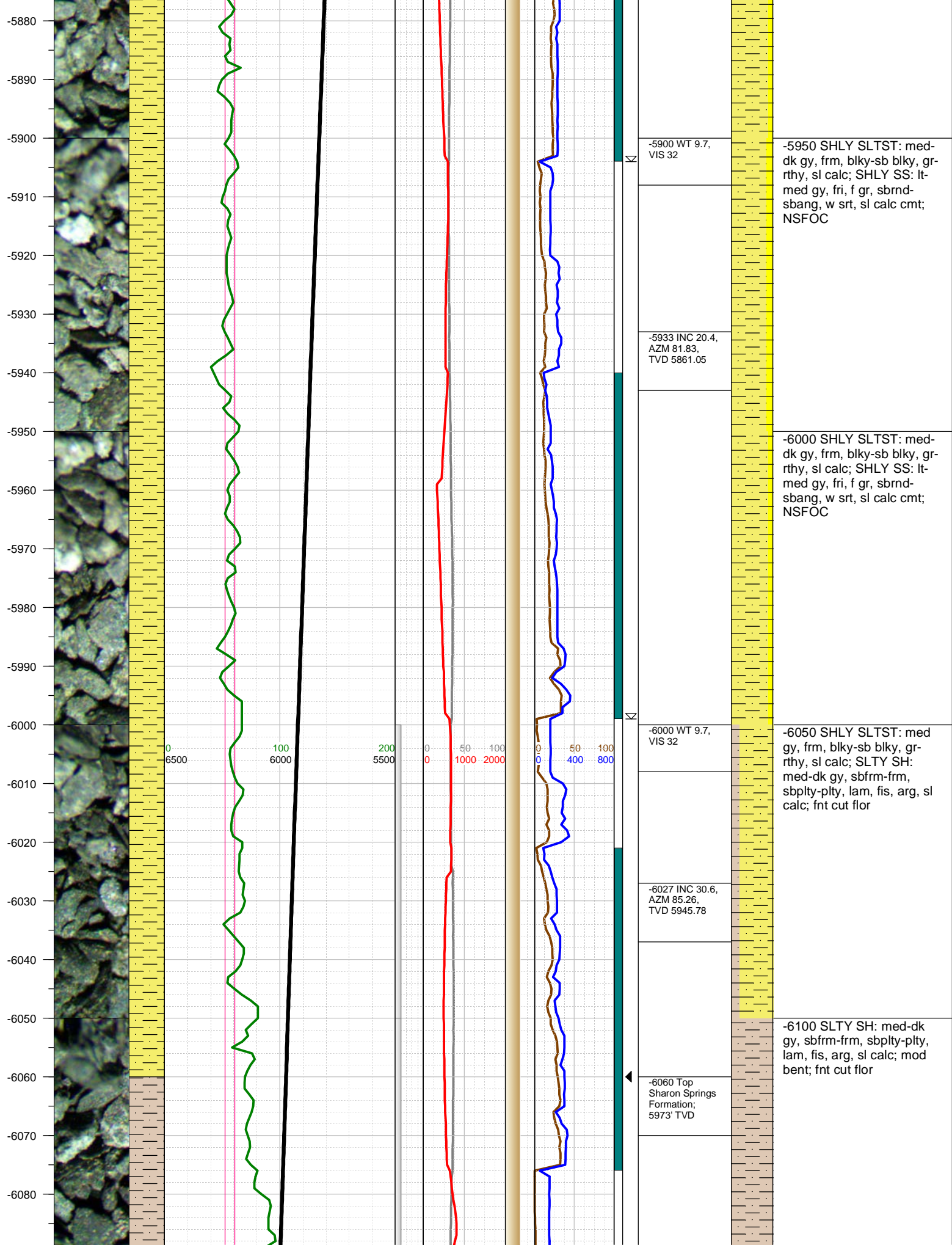
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sbang, w srt, sl calc cmt;
NSFOC

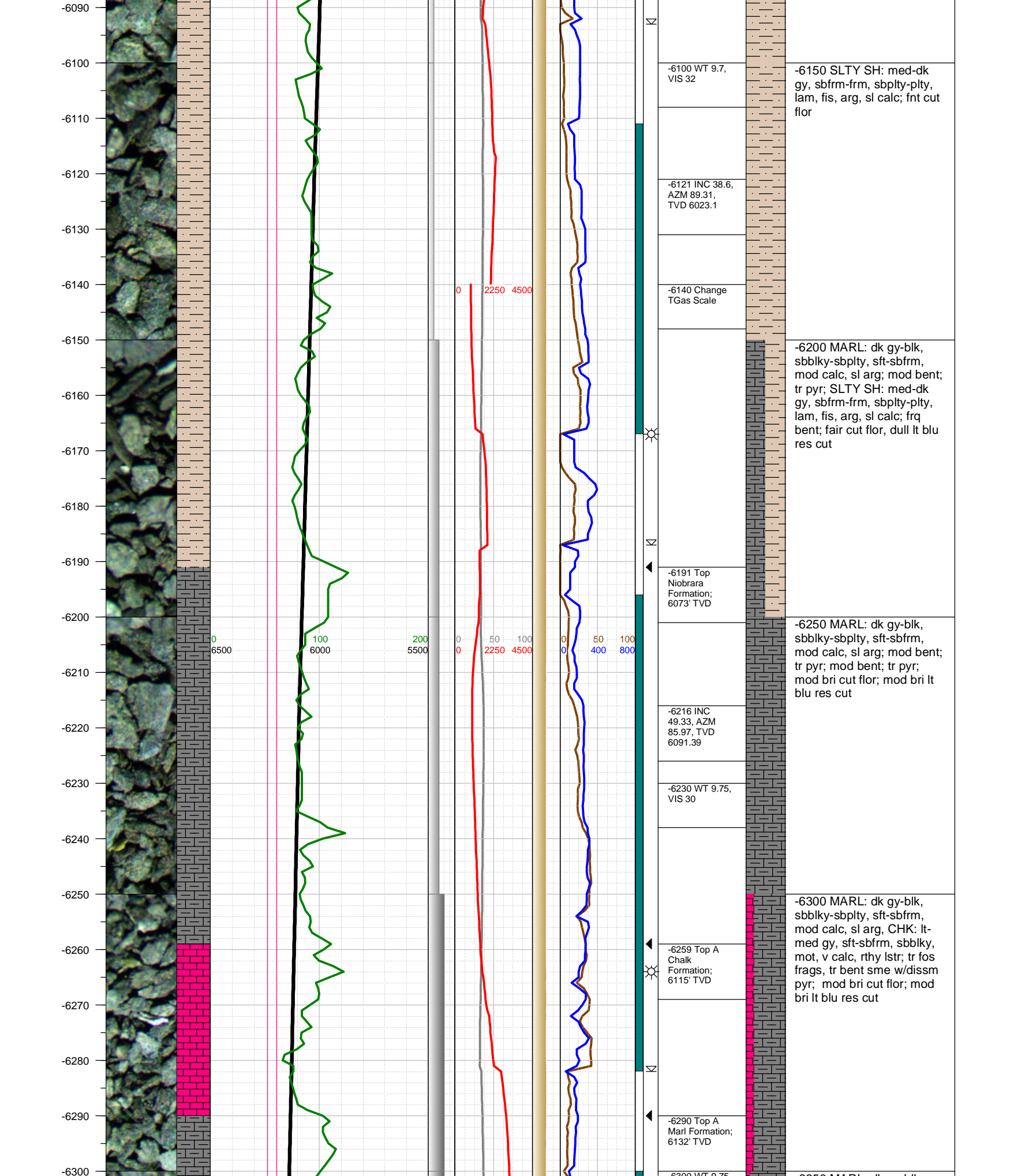
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sbang, w srt, sl calc cmt;
NSFOC

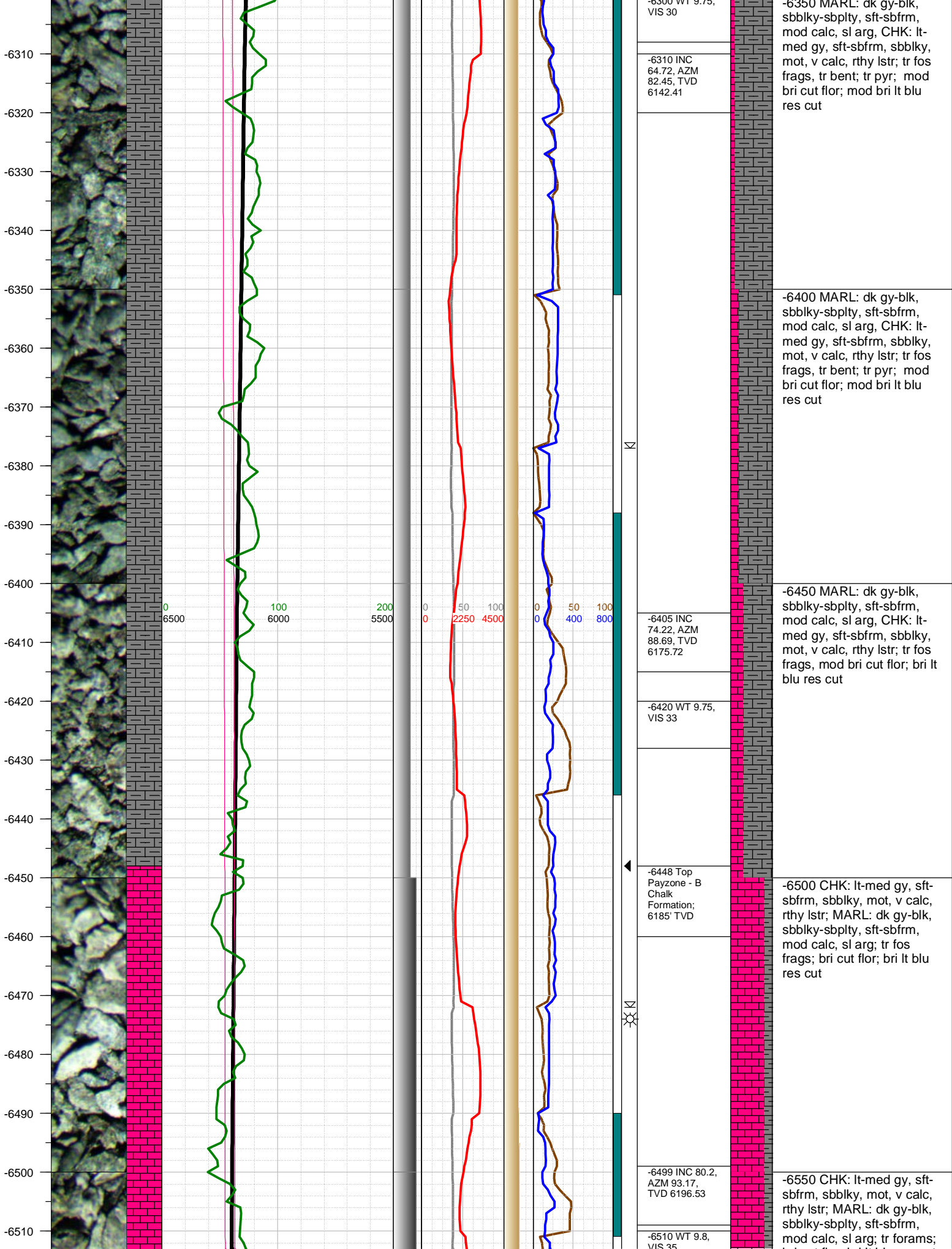


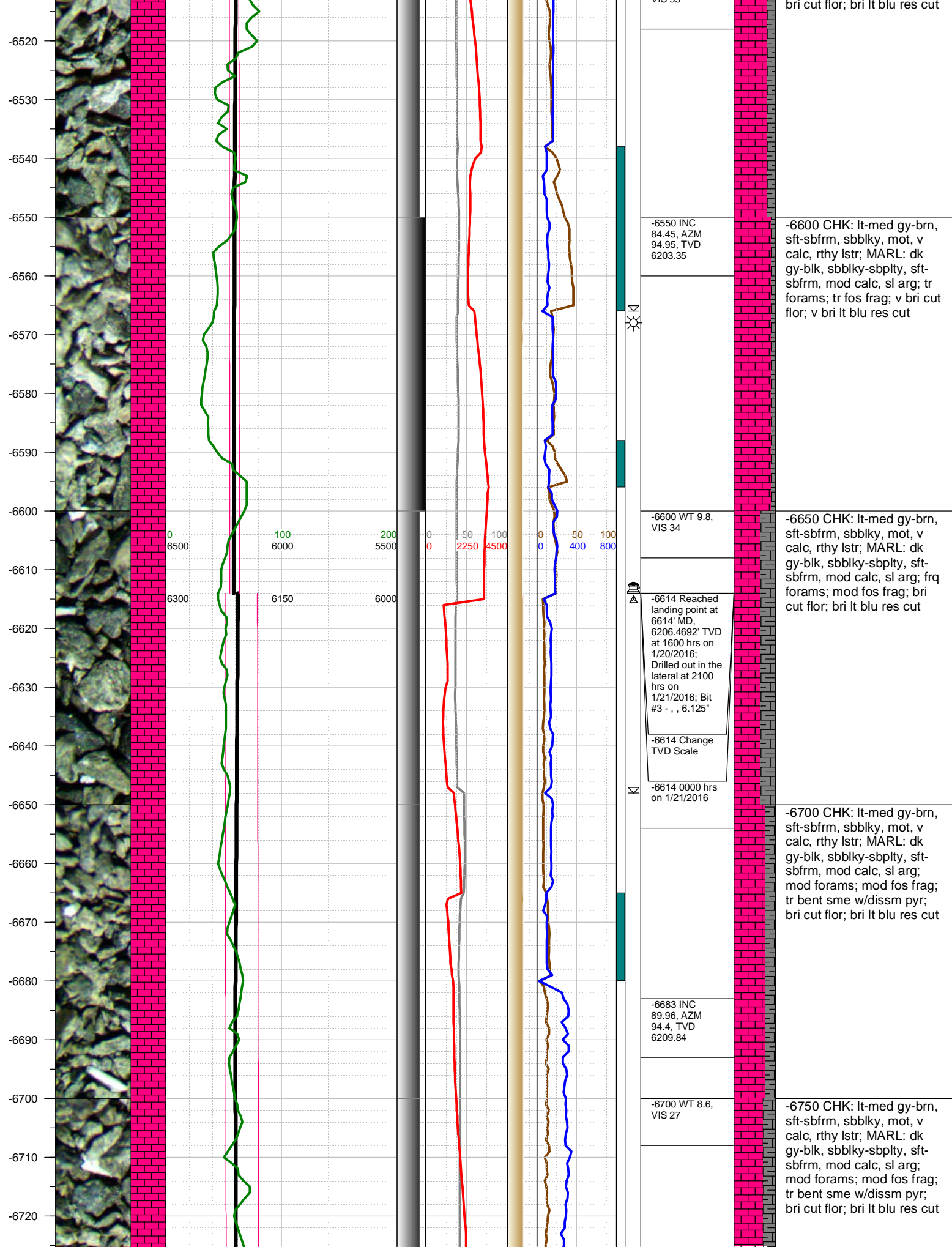




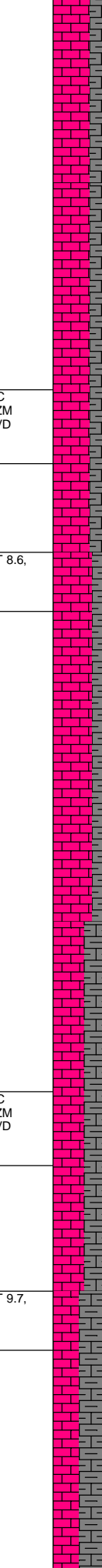
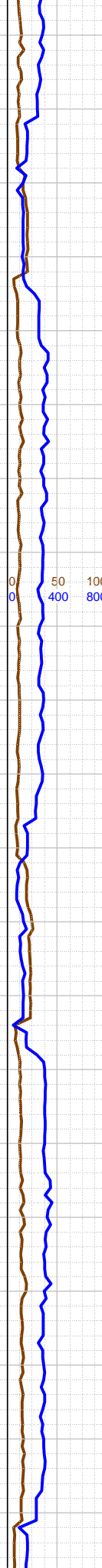
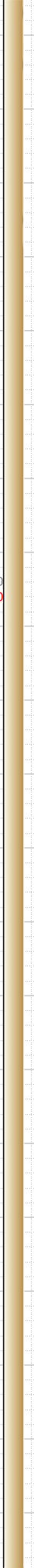
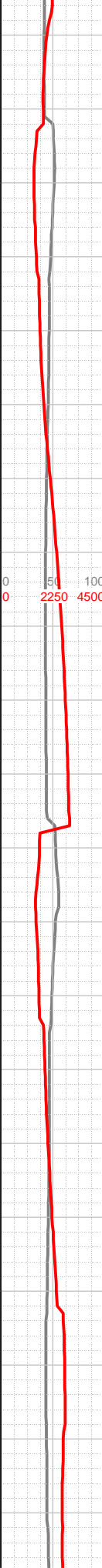
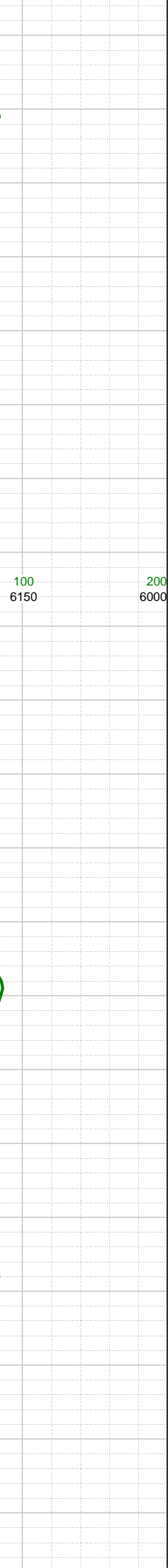
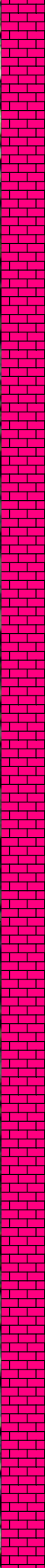
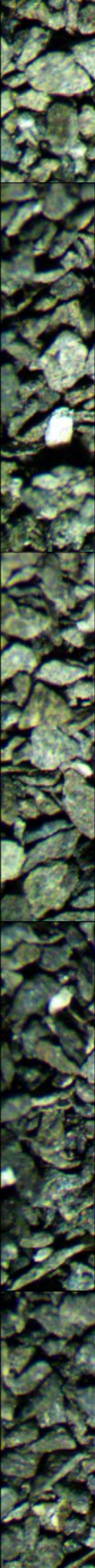








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-6930



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-6778 INC
90.75, AZM
93.35, TVD
6209.25

-6800 WT 8.6,
VIS 27

-6873 INC
90.13, AZM
91.59, TVD
6208.52

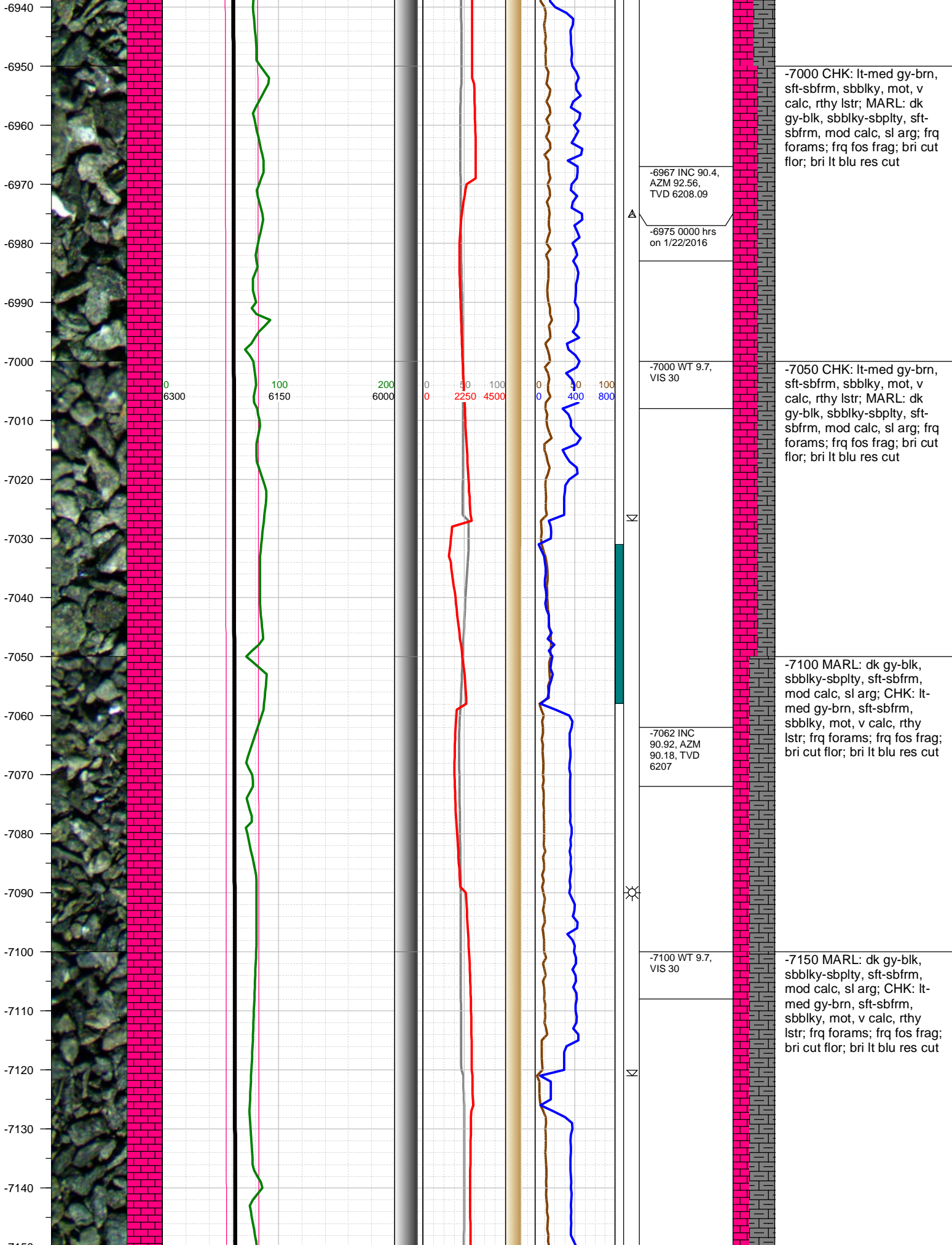
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VIS 30

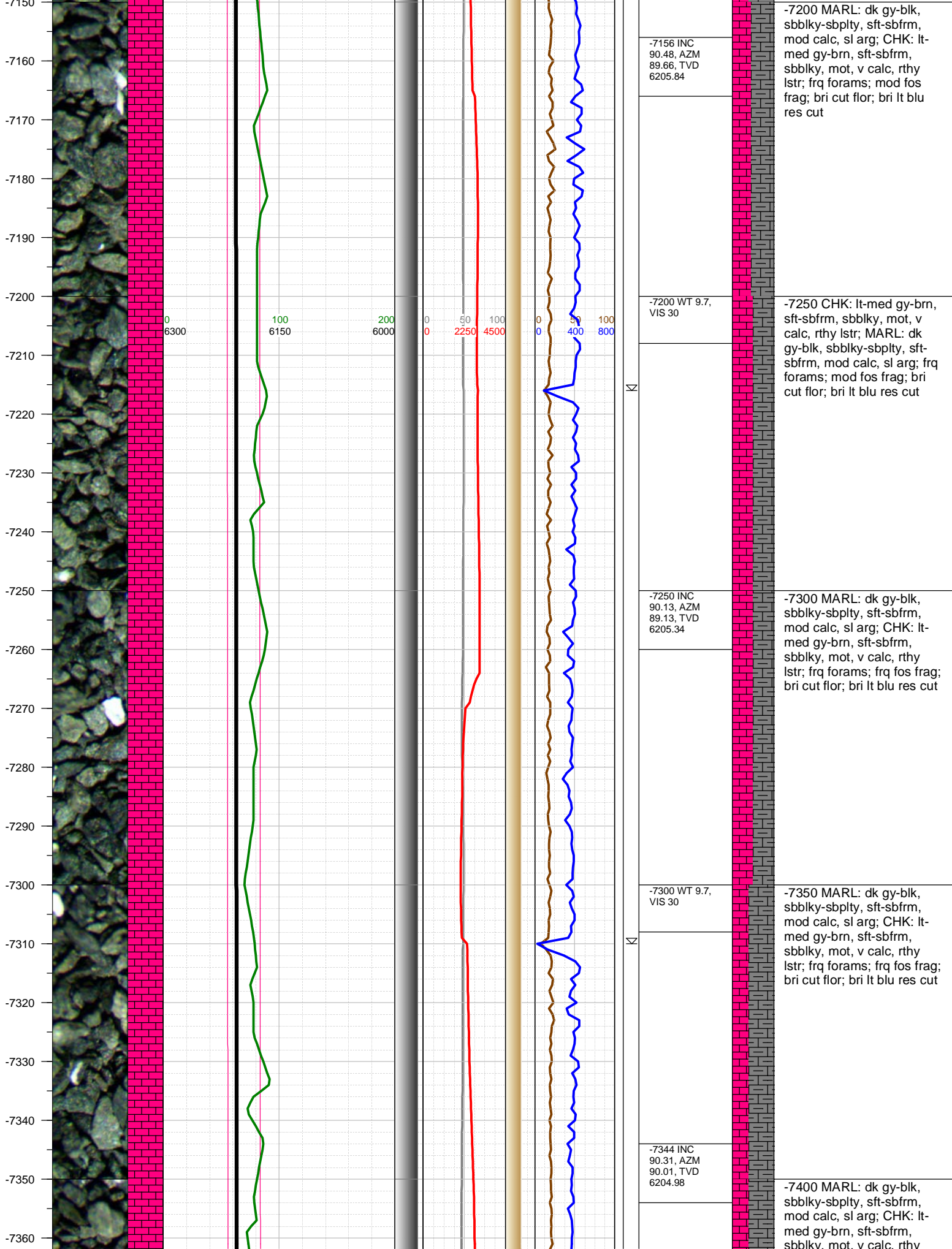
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sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; mod fos frag;
tr bent sme w/dissm pyr; v
bri cut flr w/streaming; v
bri lt blu res cut

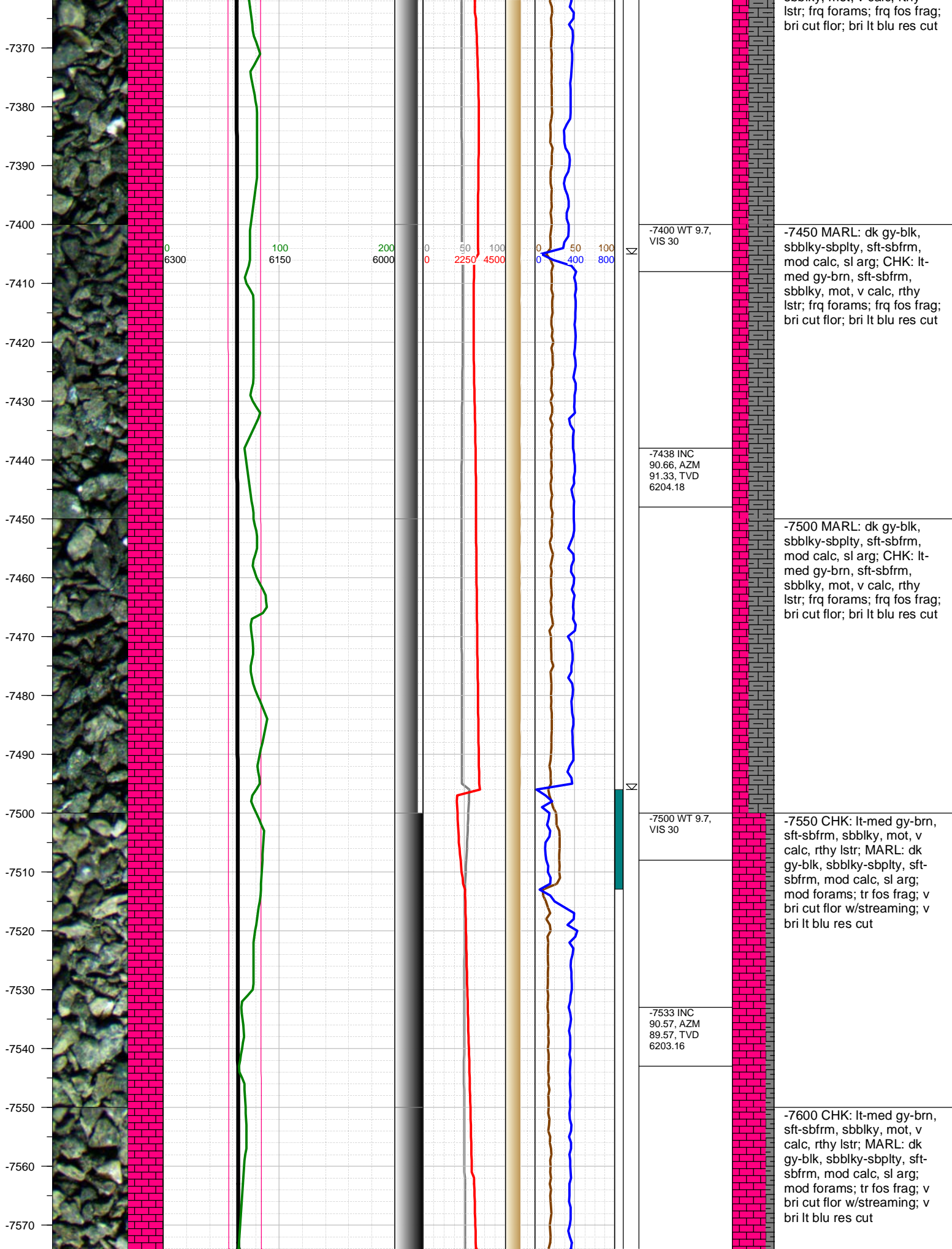
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sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; mod fos frag;
tr bent sme w/dissm pyr; v
bri cut flr w/streaming; v
bri lt blu res cut

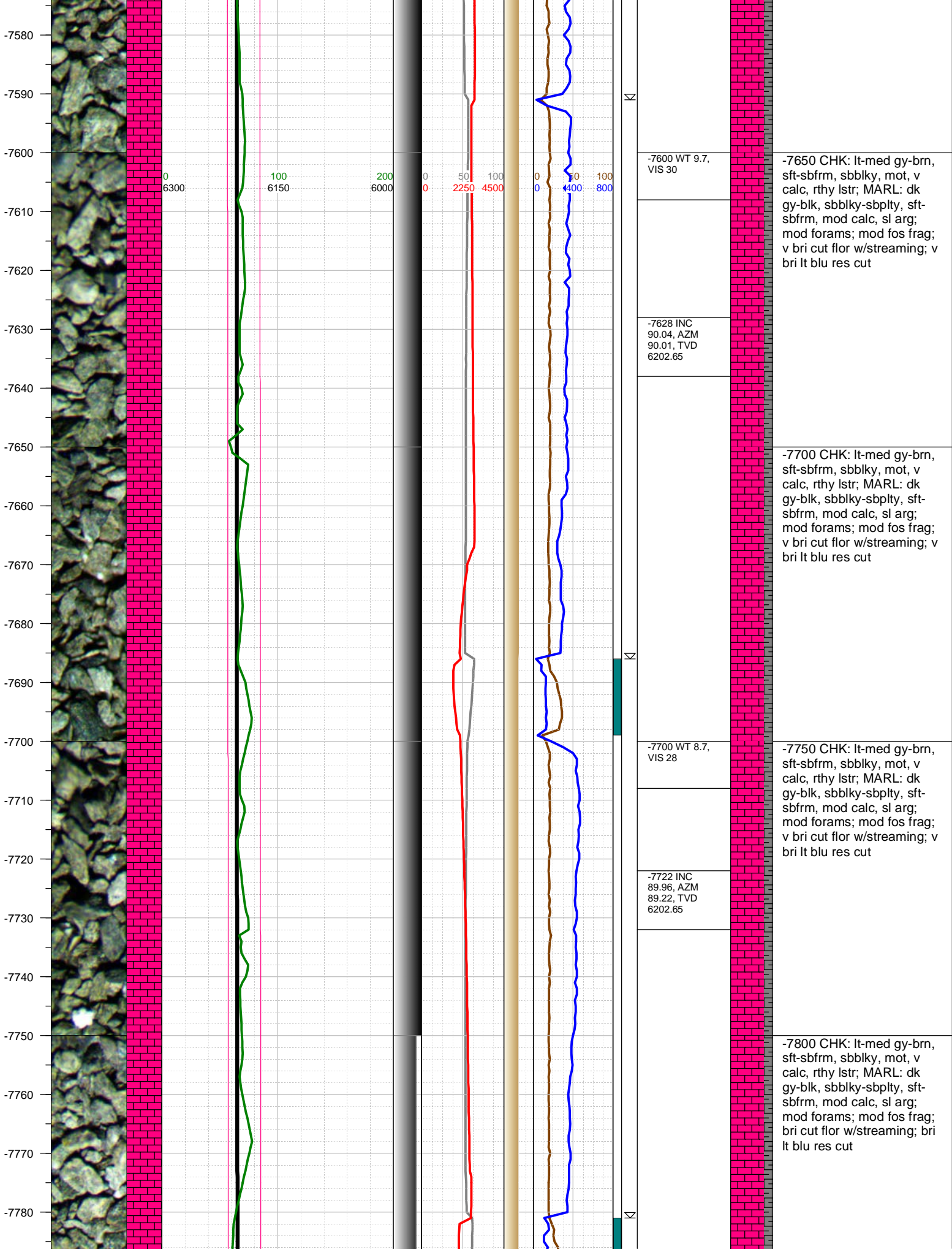
-6900 CHK: lt-med gy-brn,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg; frq
forams; frq fos frag; v bri
cut flr w/streaming; v bri lt
blu res cut

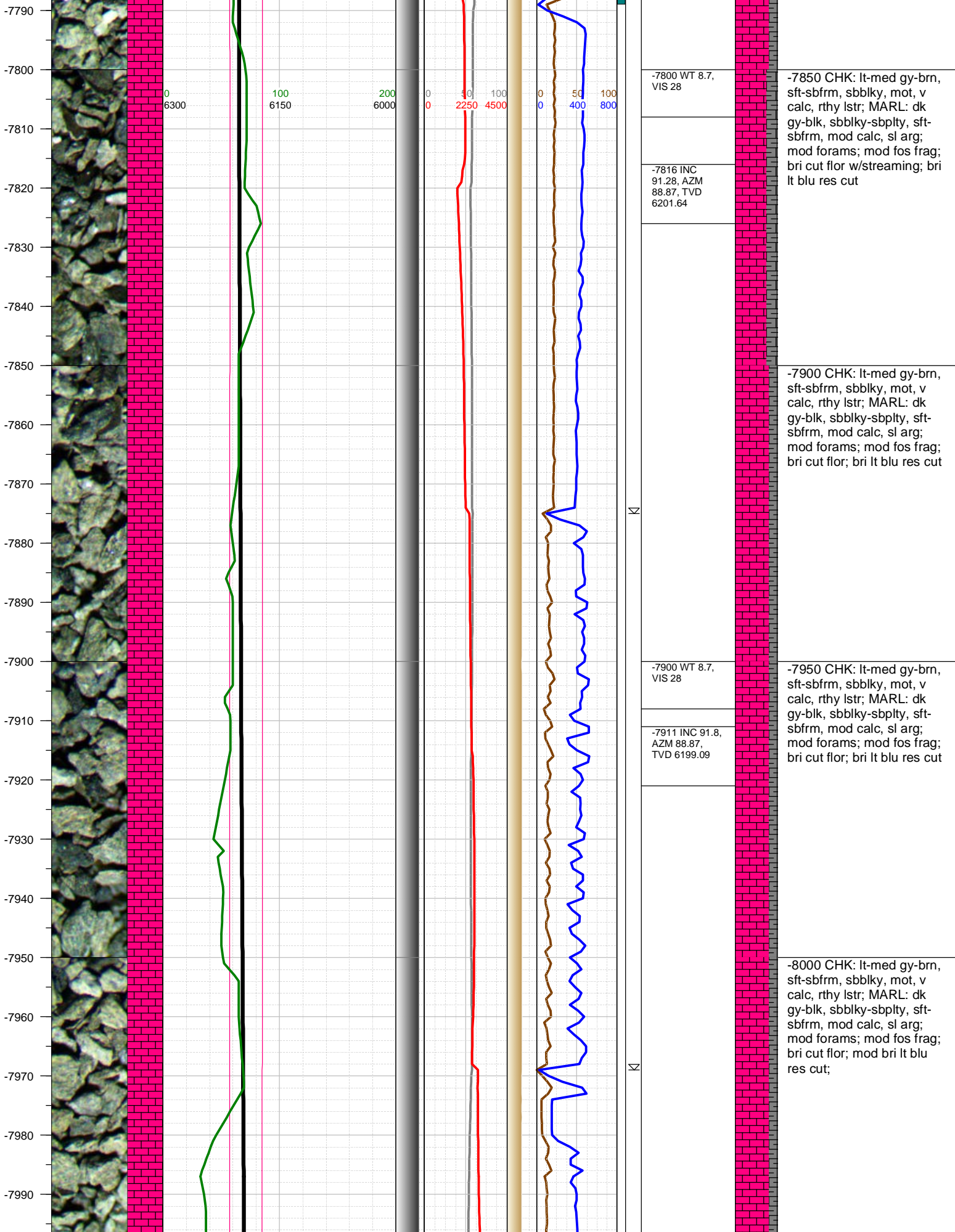
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sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg; frq
forams; frq fos frag; bri cut
flr w/streaming; bri lt blu
res cut

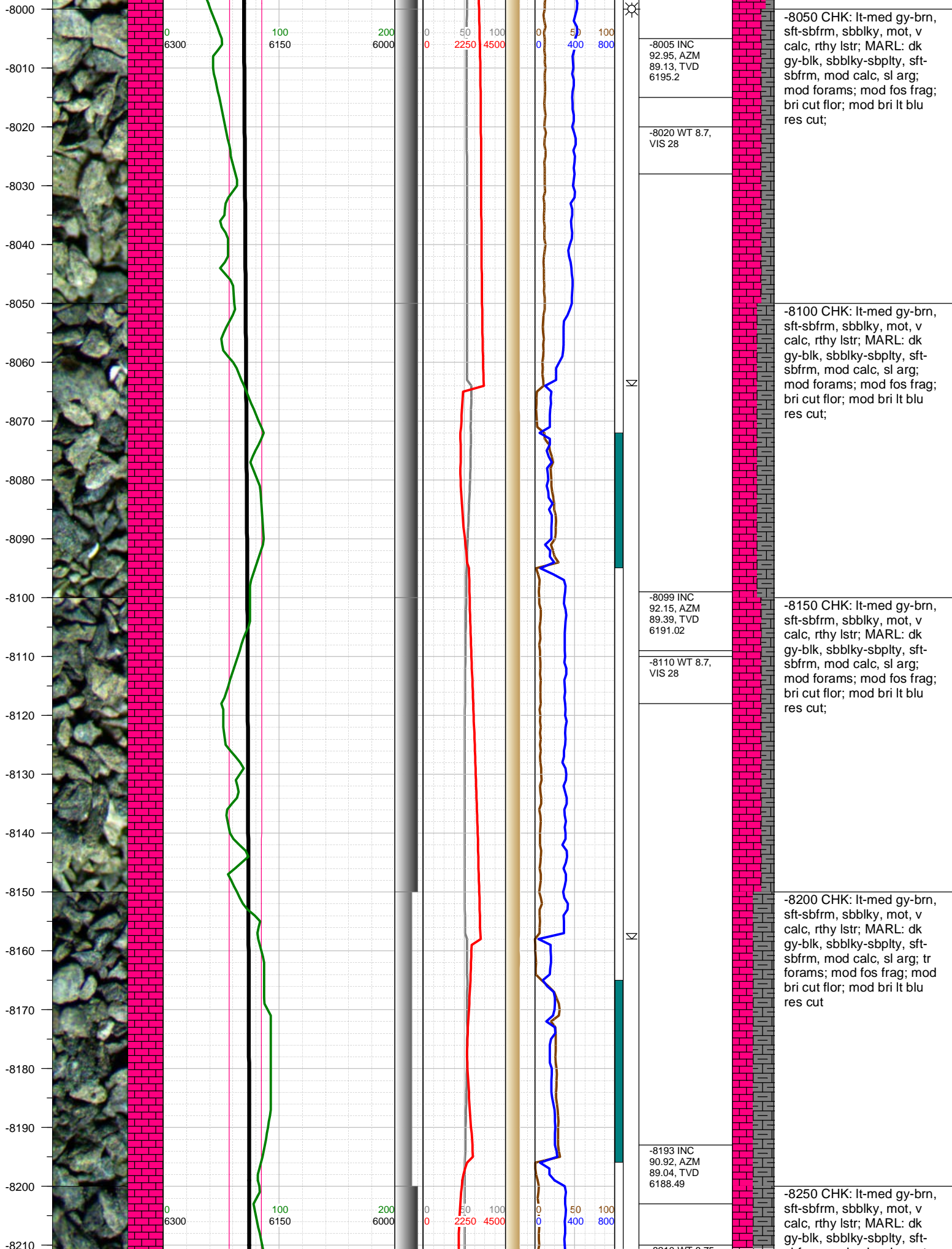


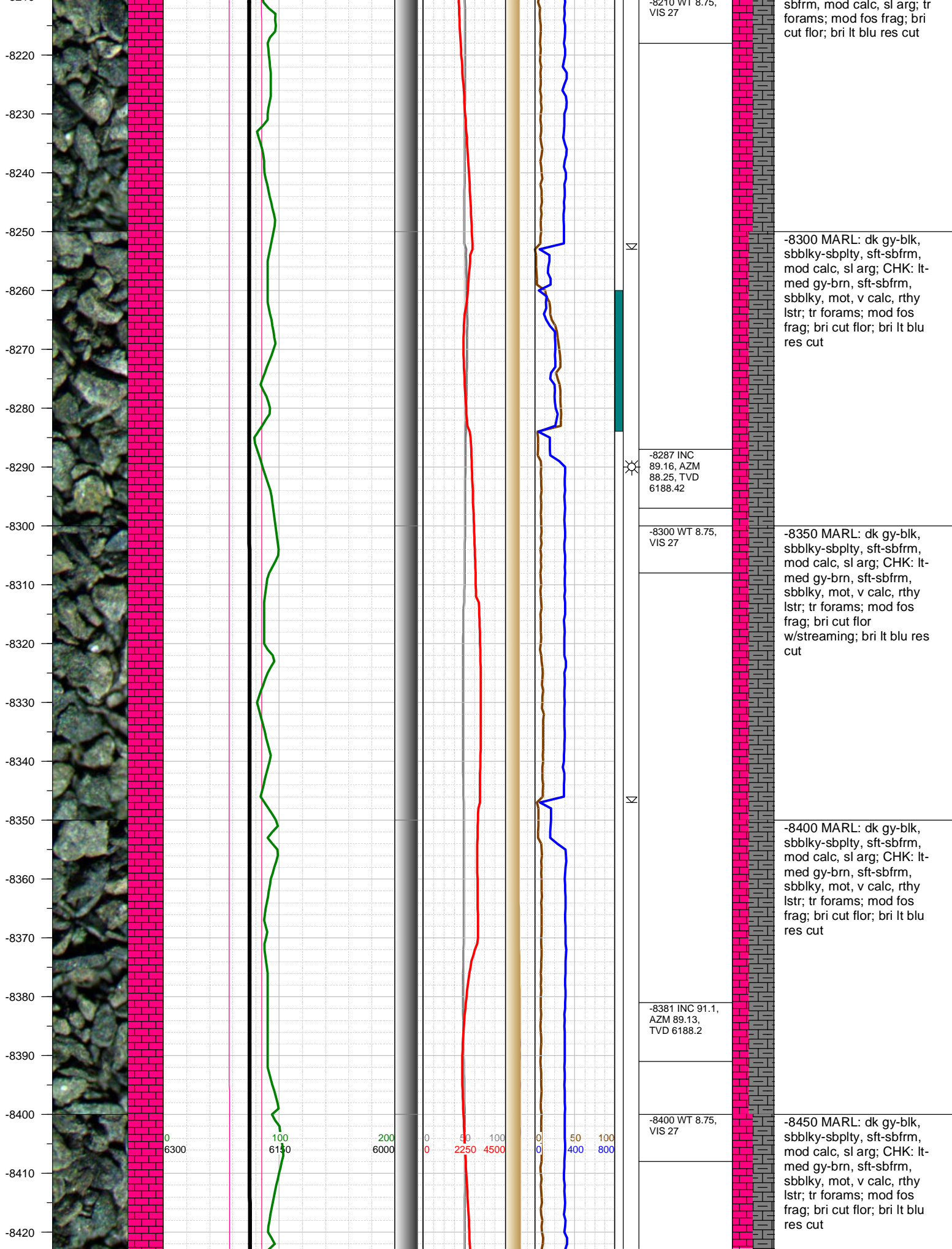


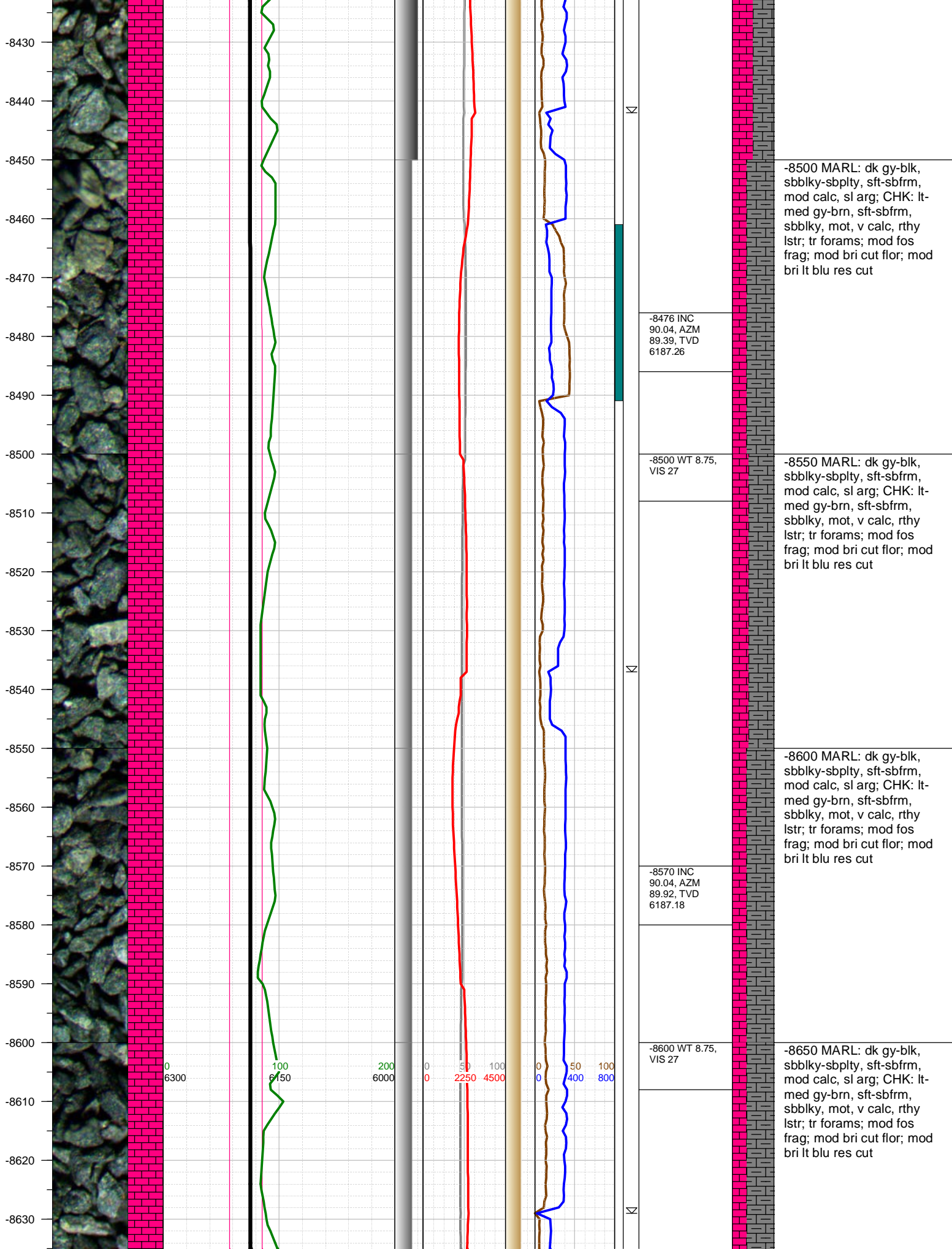


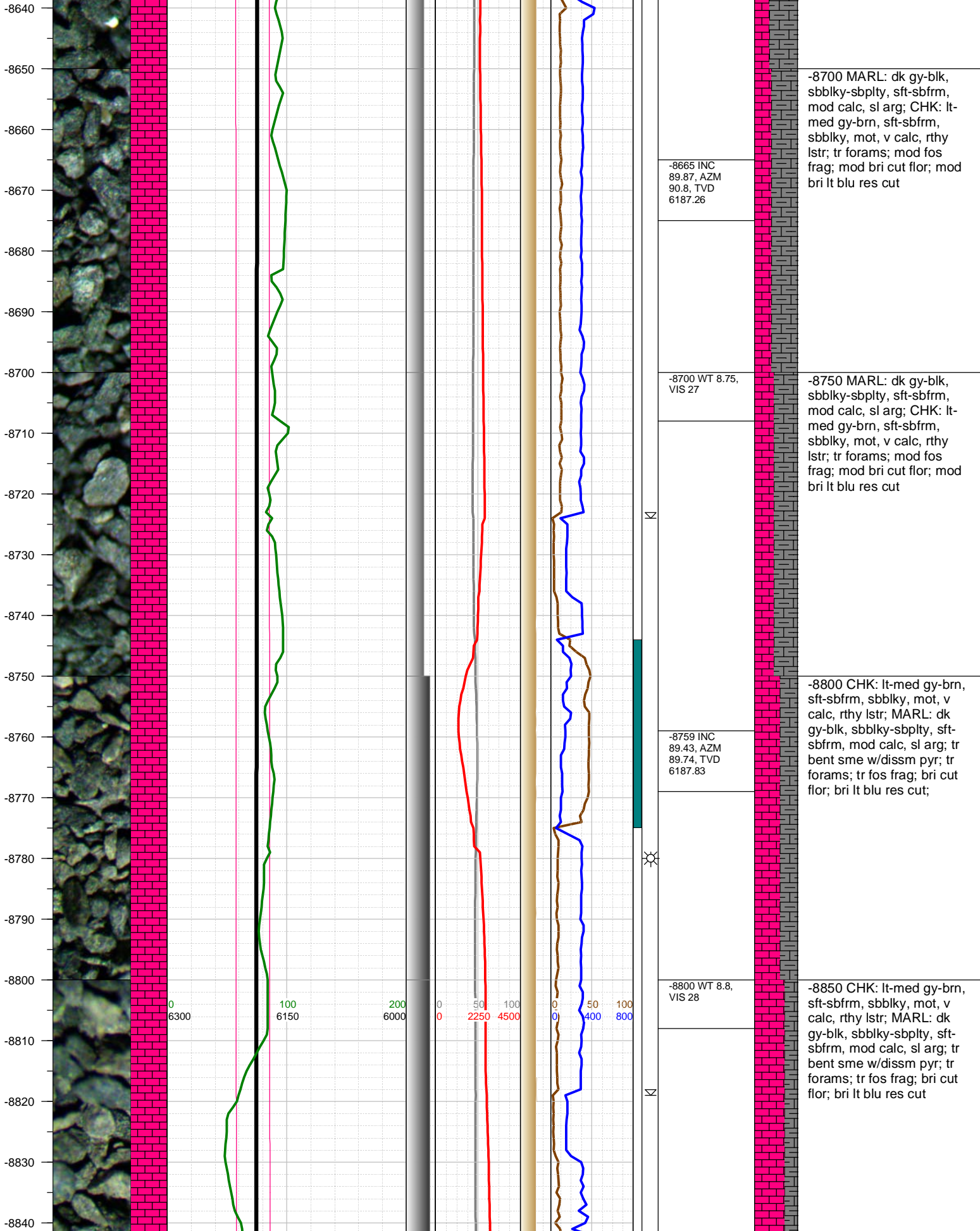


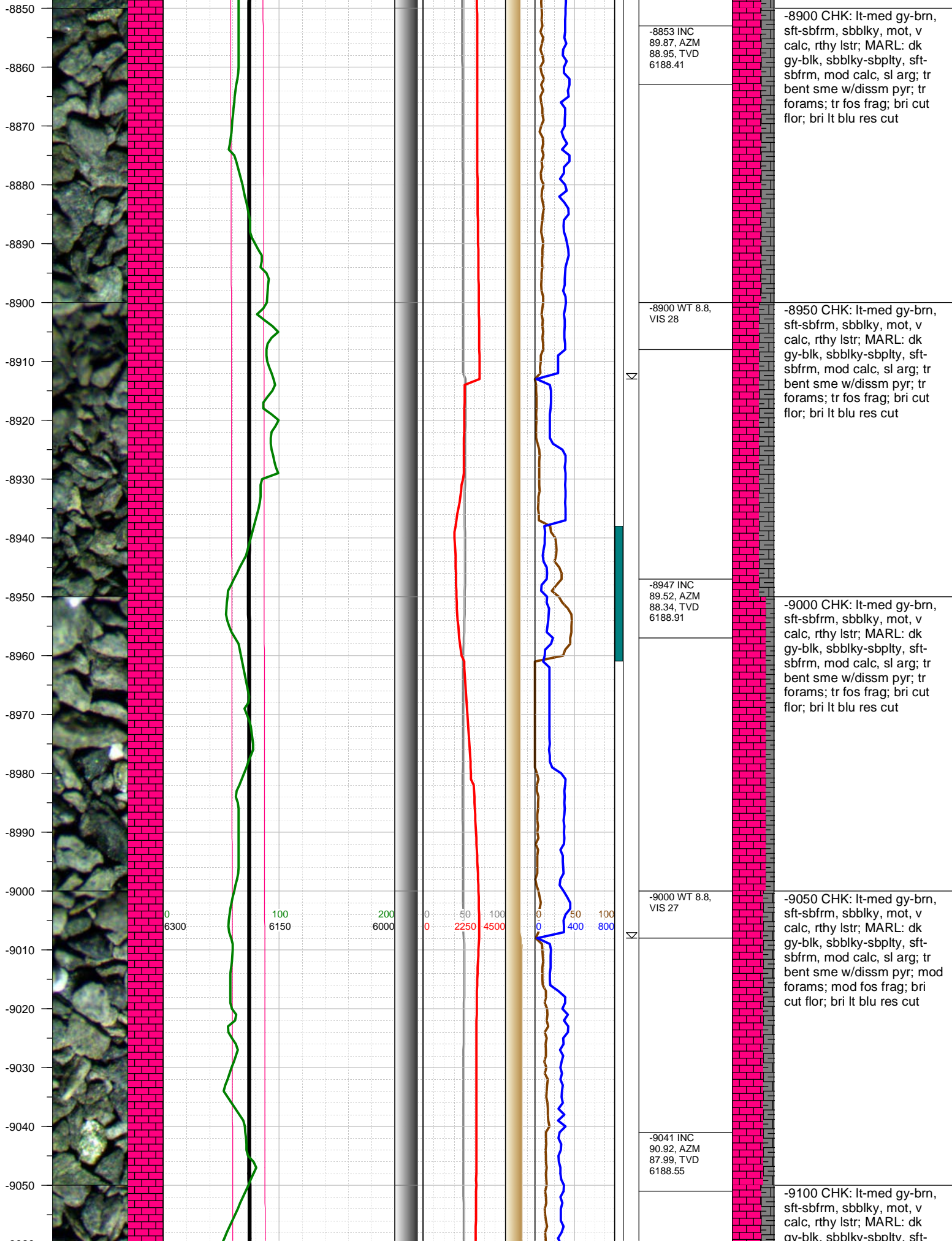


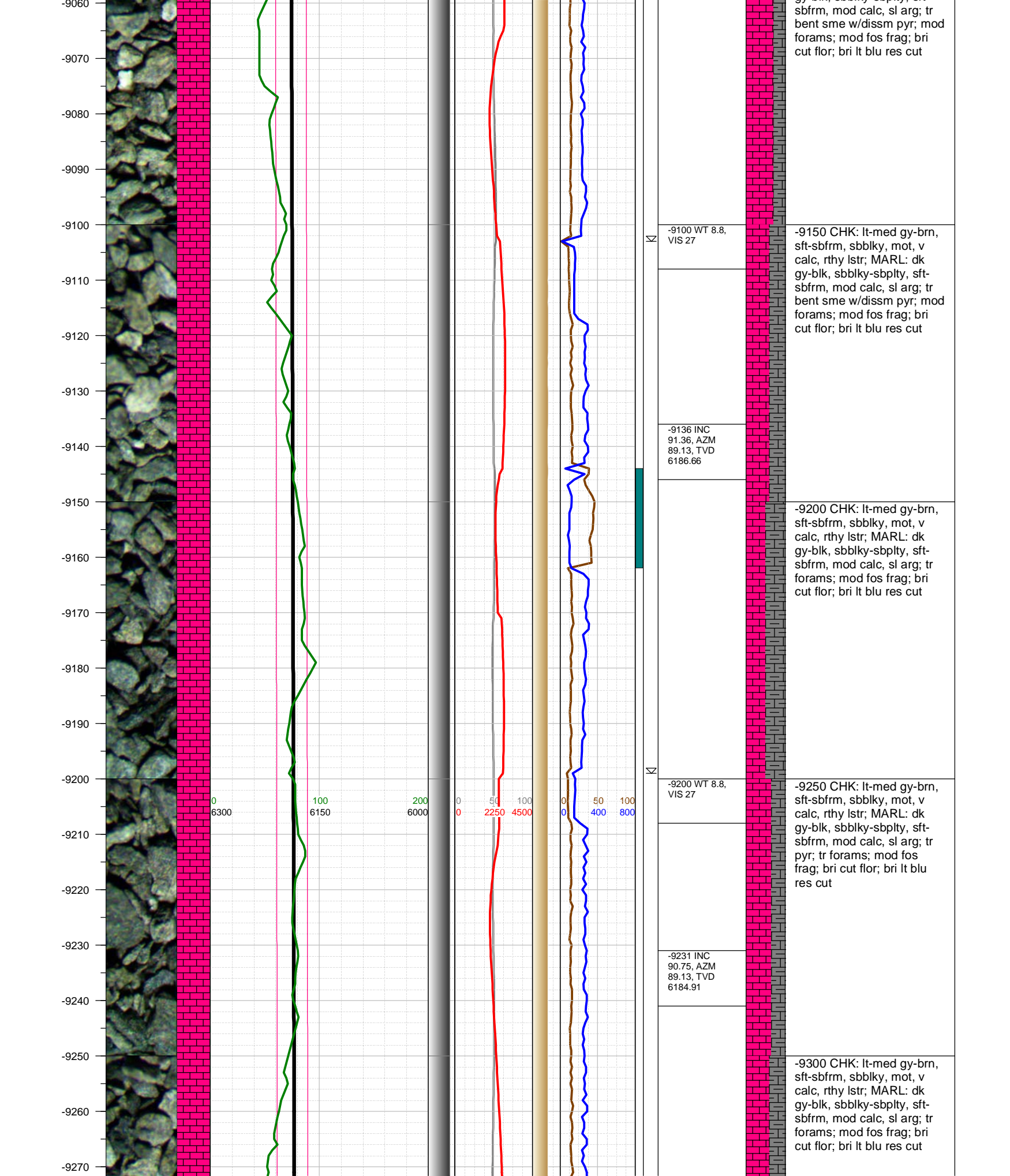


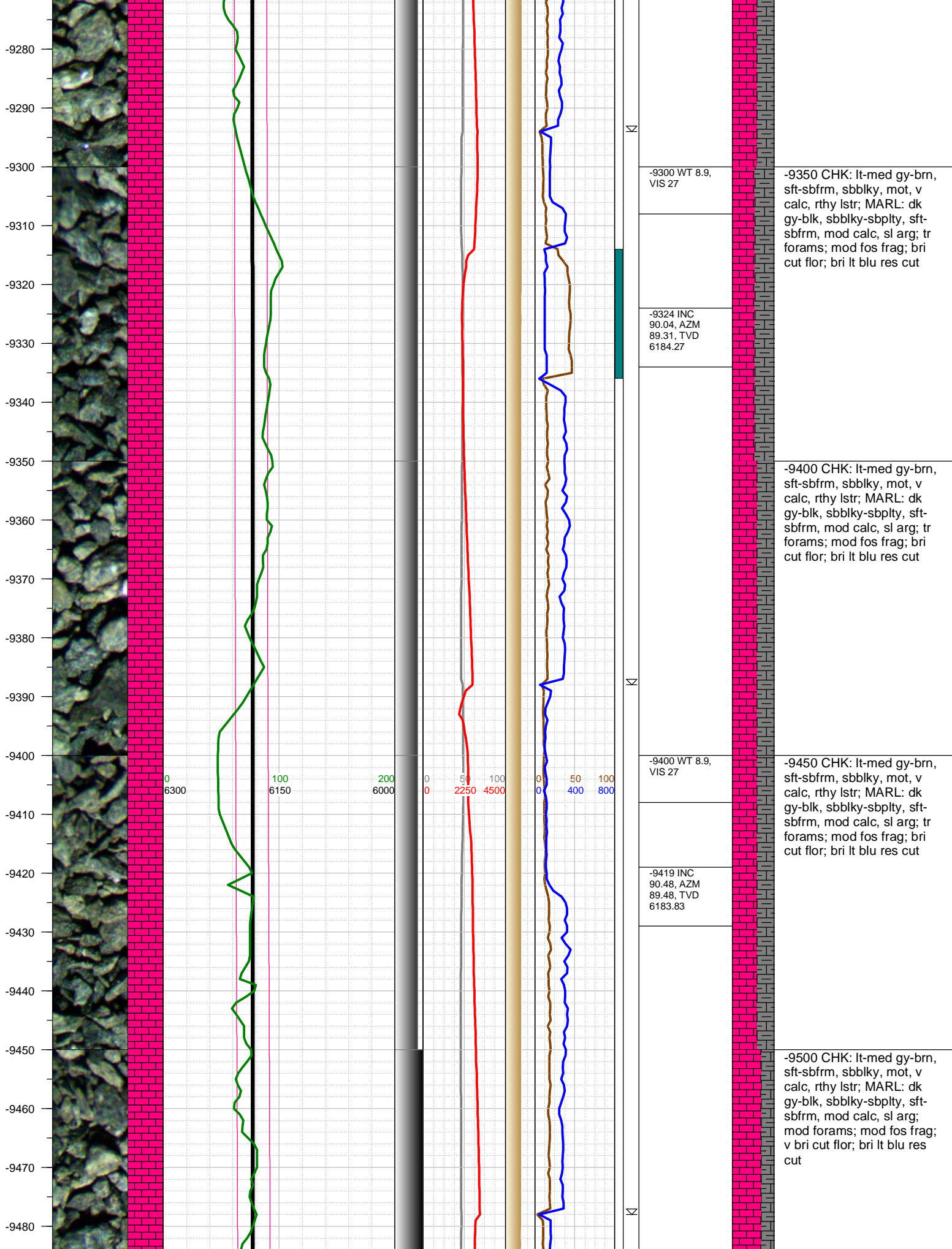


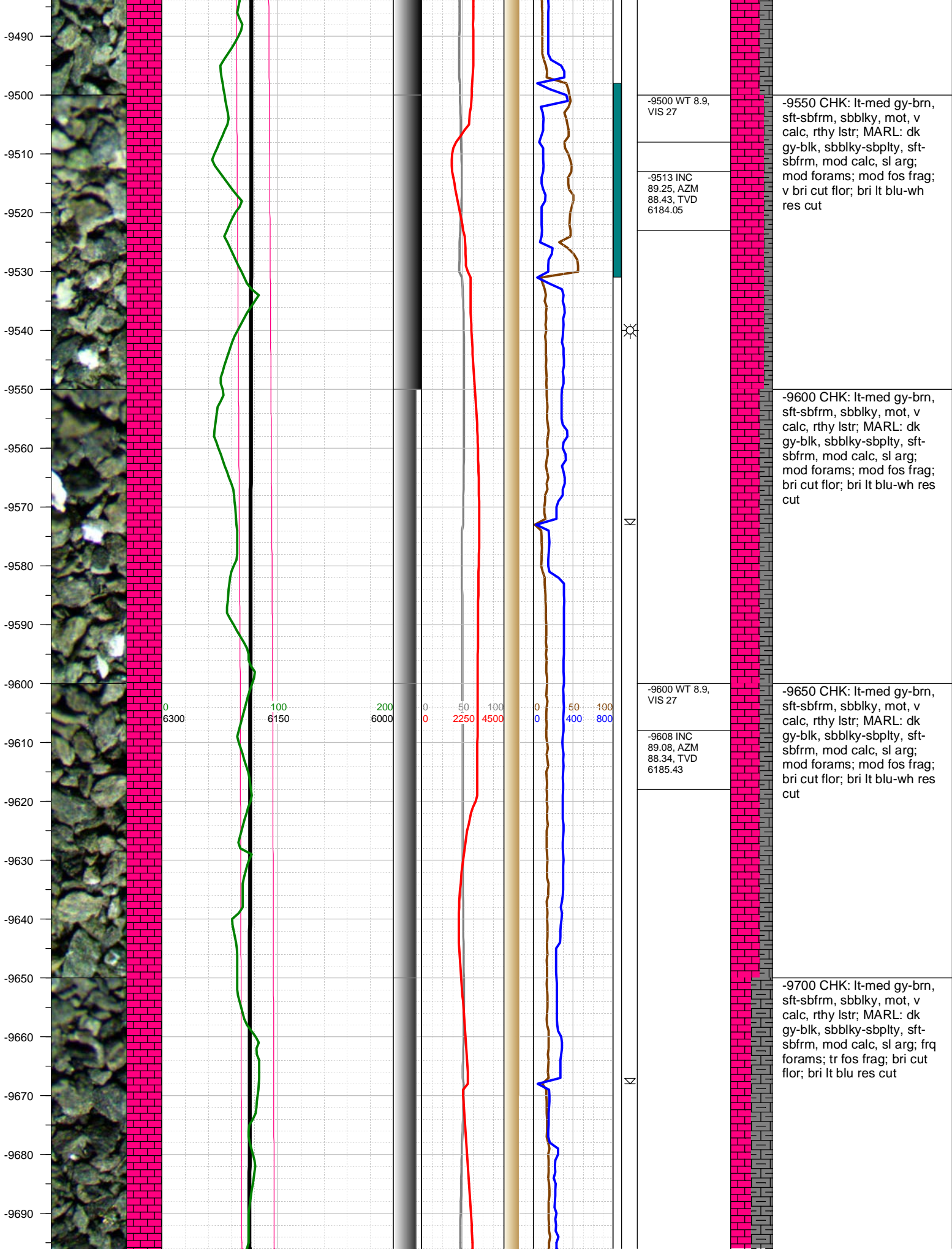


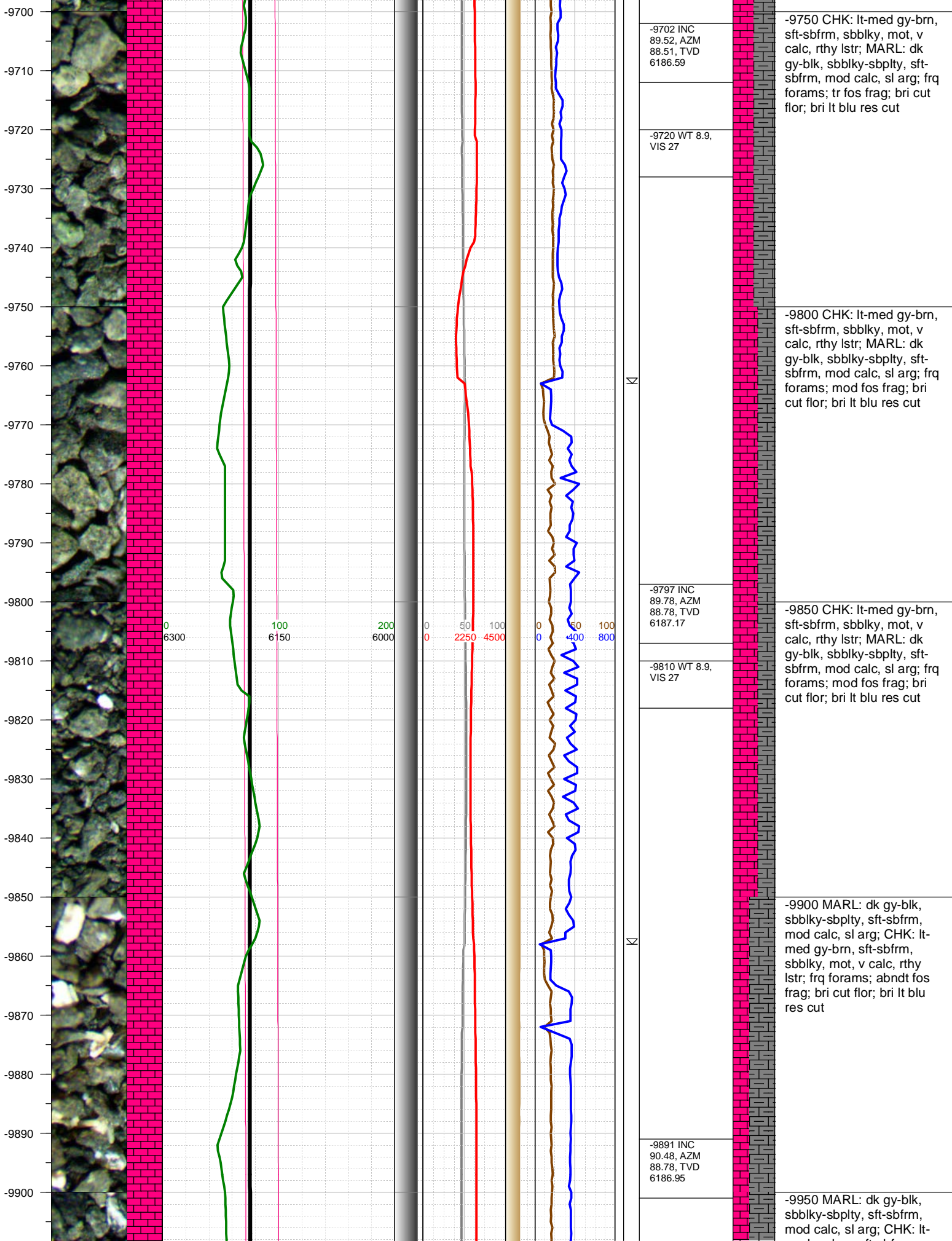


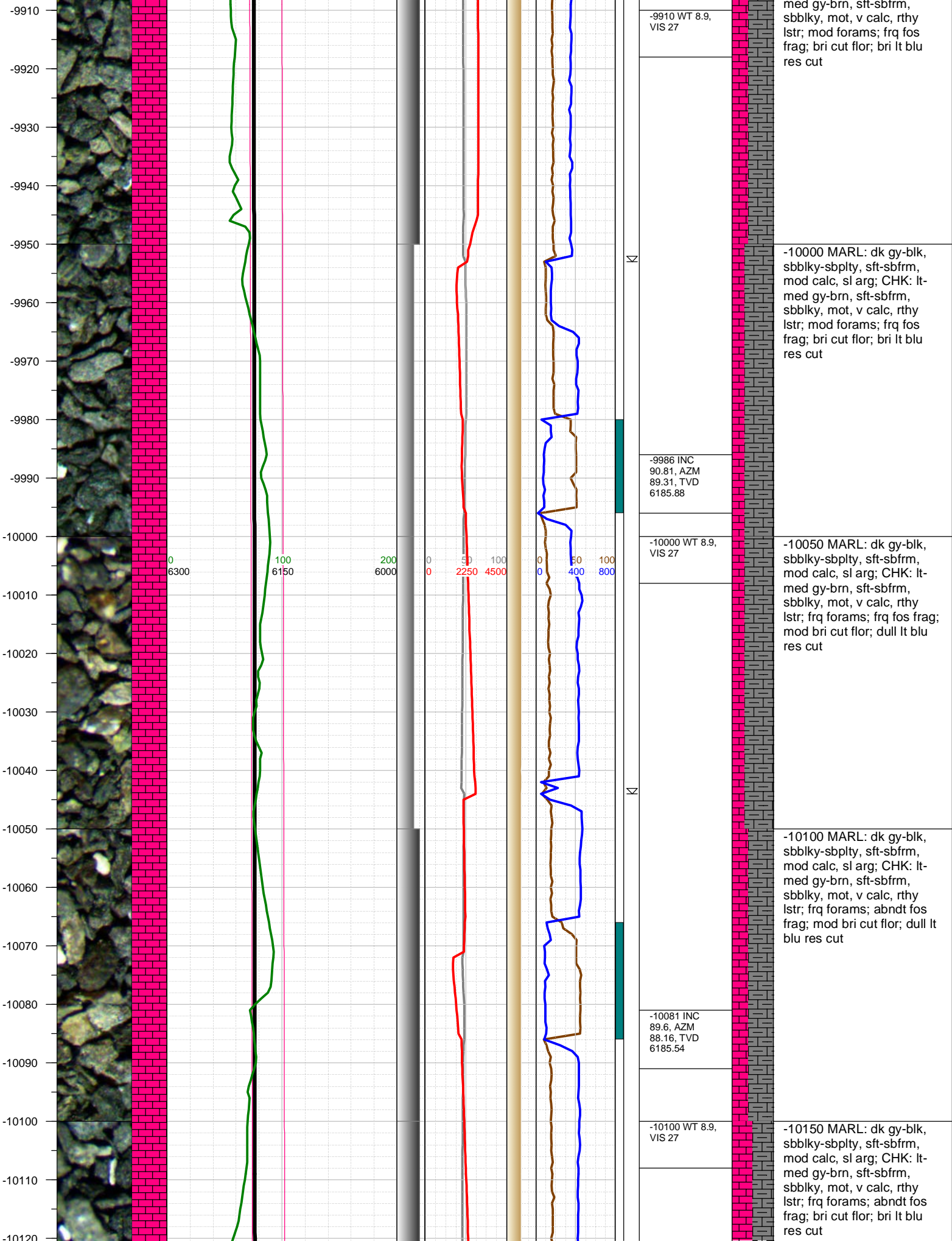


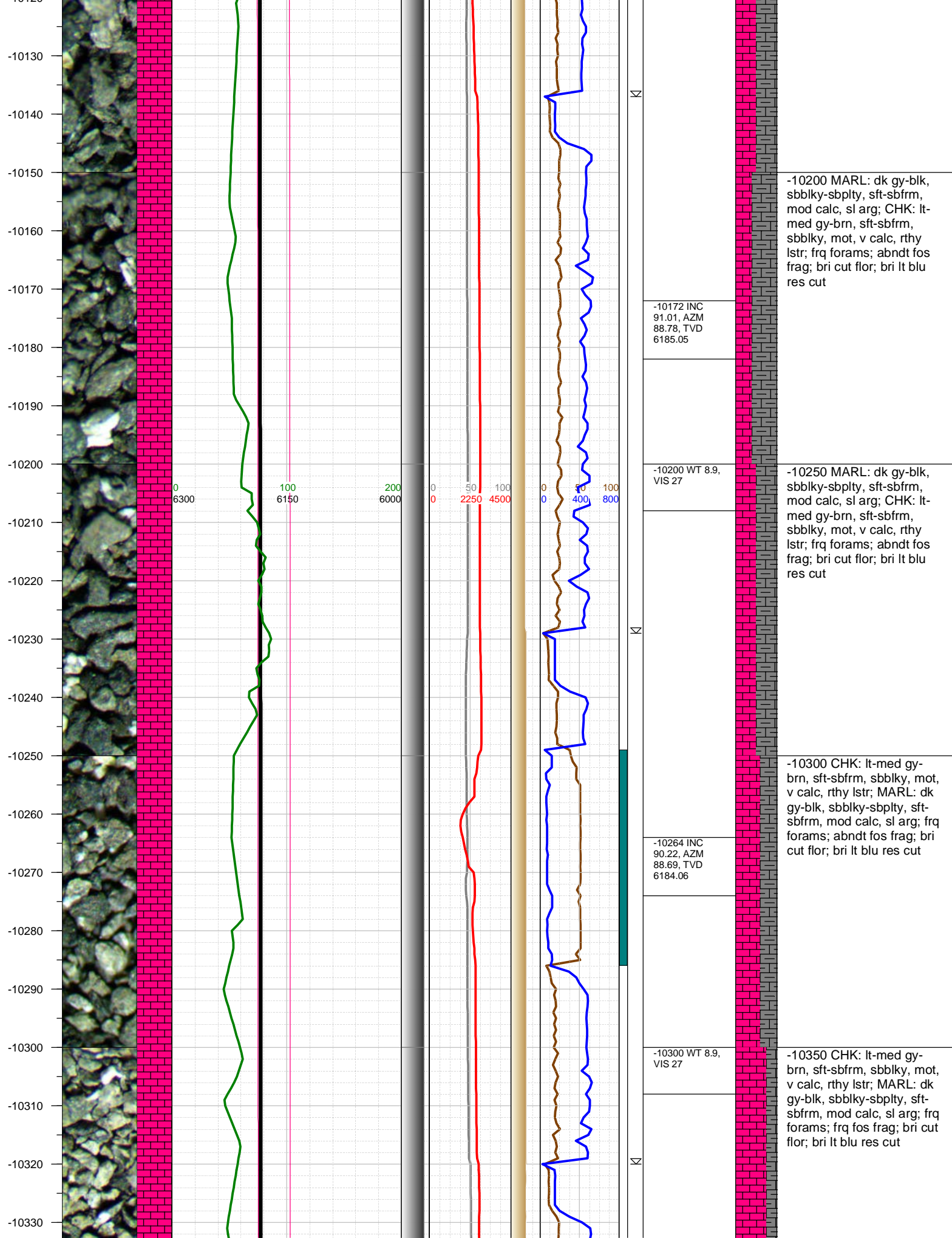


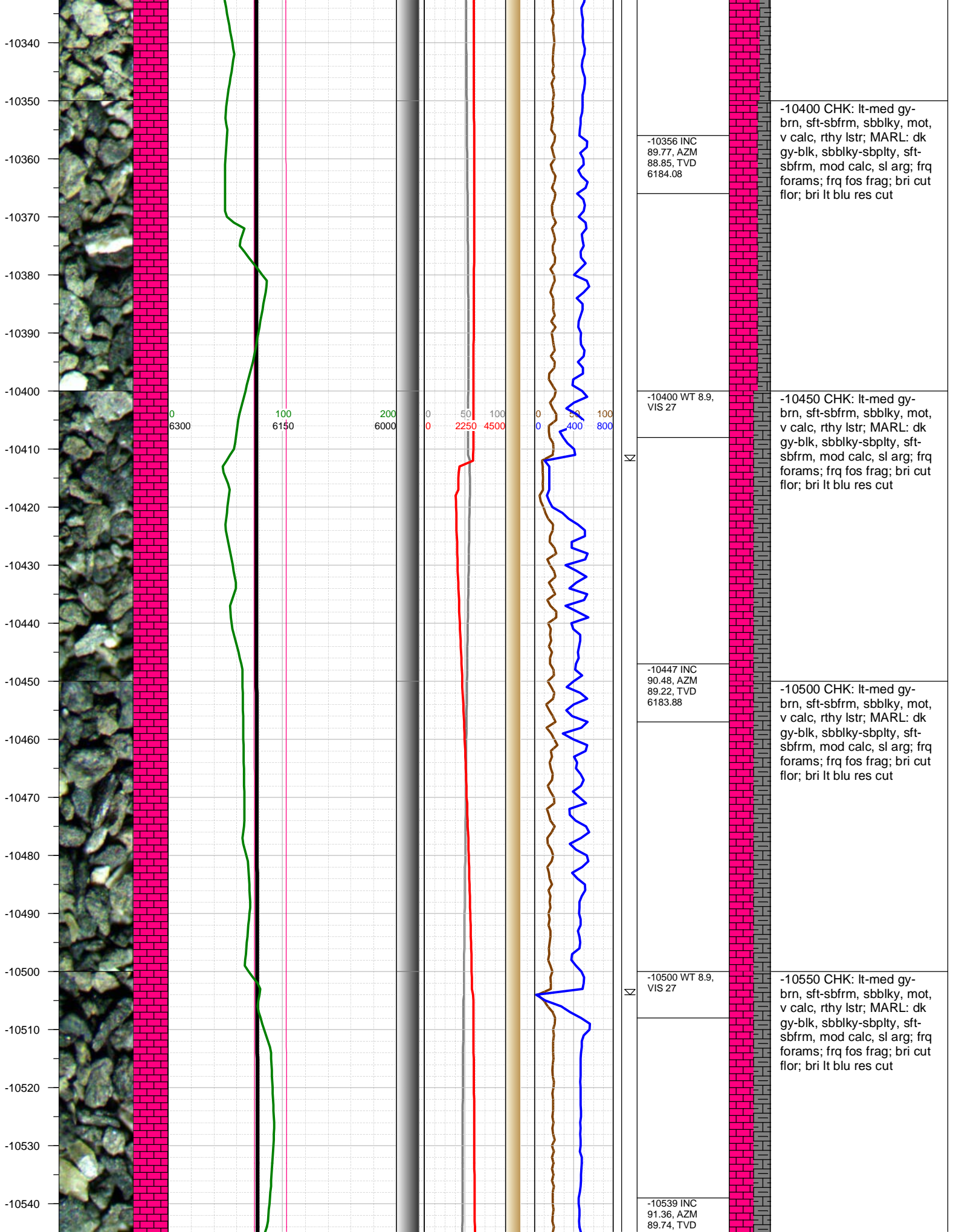










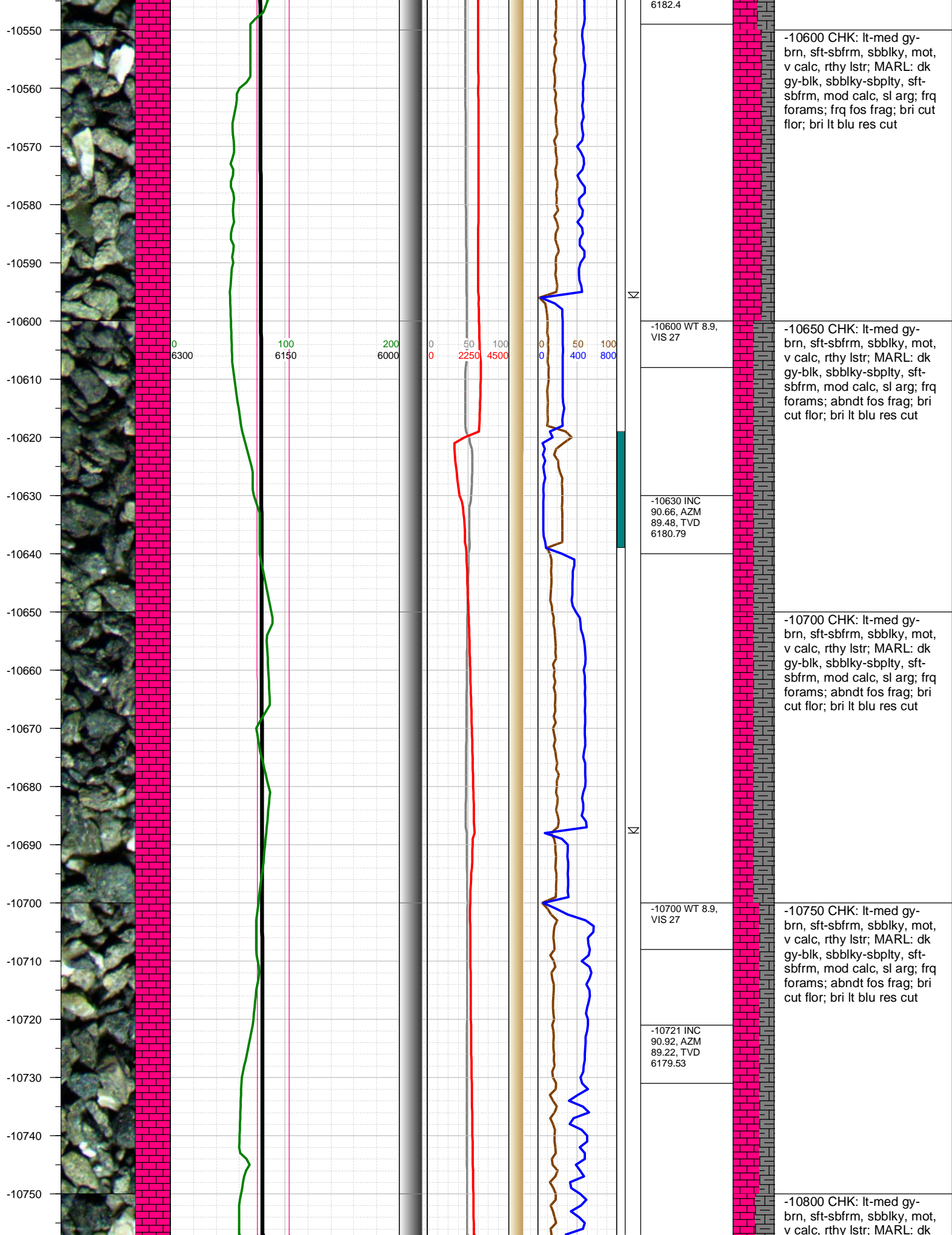


-10400 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frag; bri cut flor; bri lt blu res cut

-10450 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 forams; frq fos frag; bri cut flor; bri lt blu res cut

-10500 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 forams; frq fos frag; bri cut flor; bri lt blu res cut

-10550 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 forams; frq fos frag; bri cut flor; bri lt blu res cut



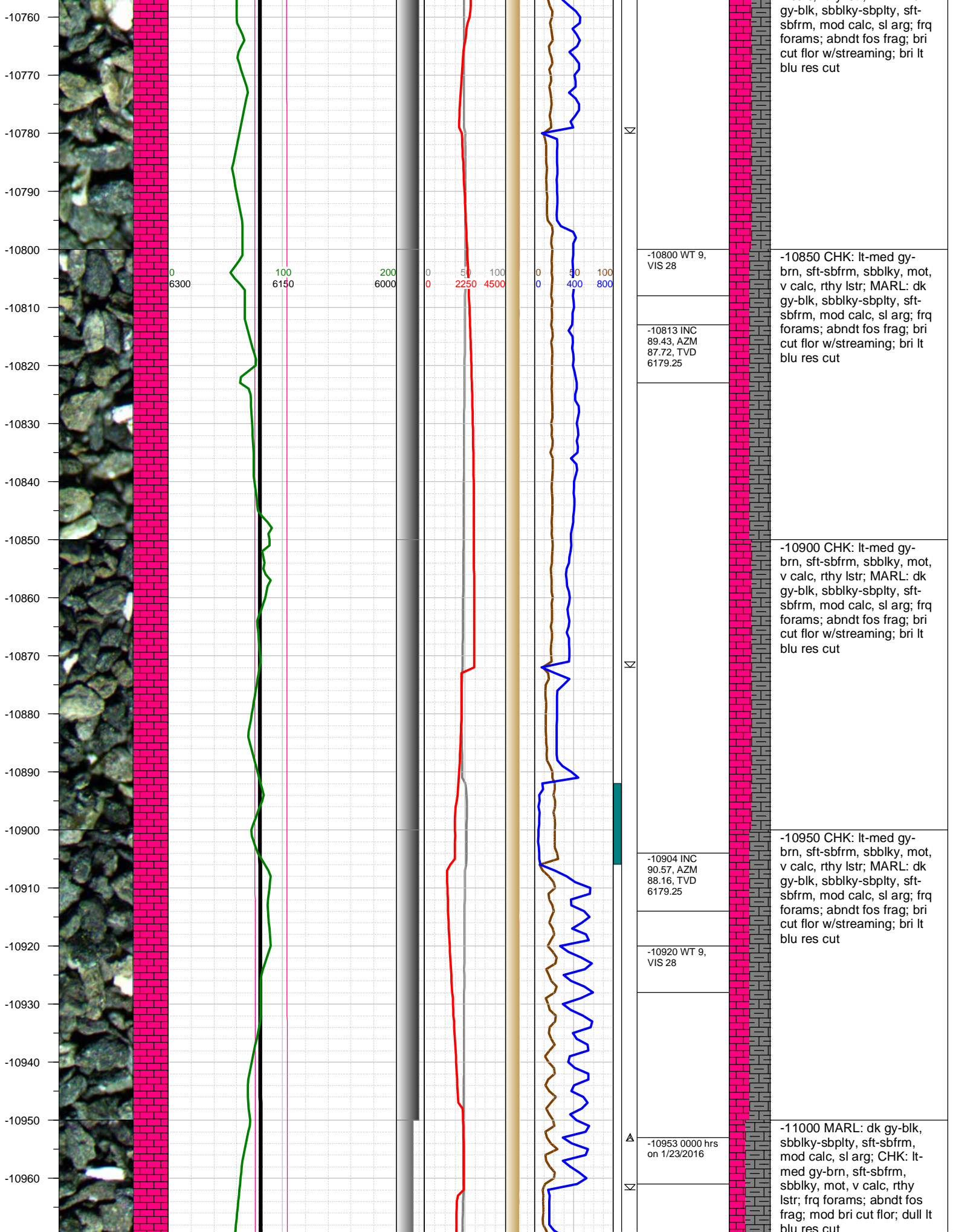
-10600 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frag; bri cut flor; bri lt blu res cut

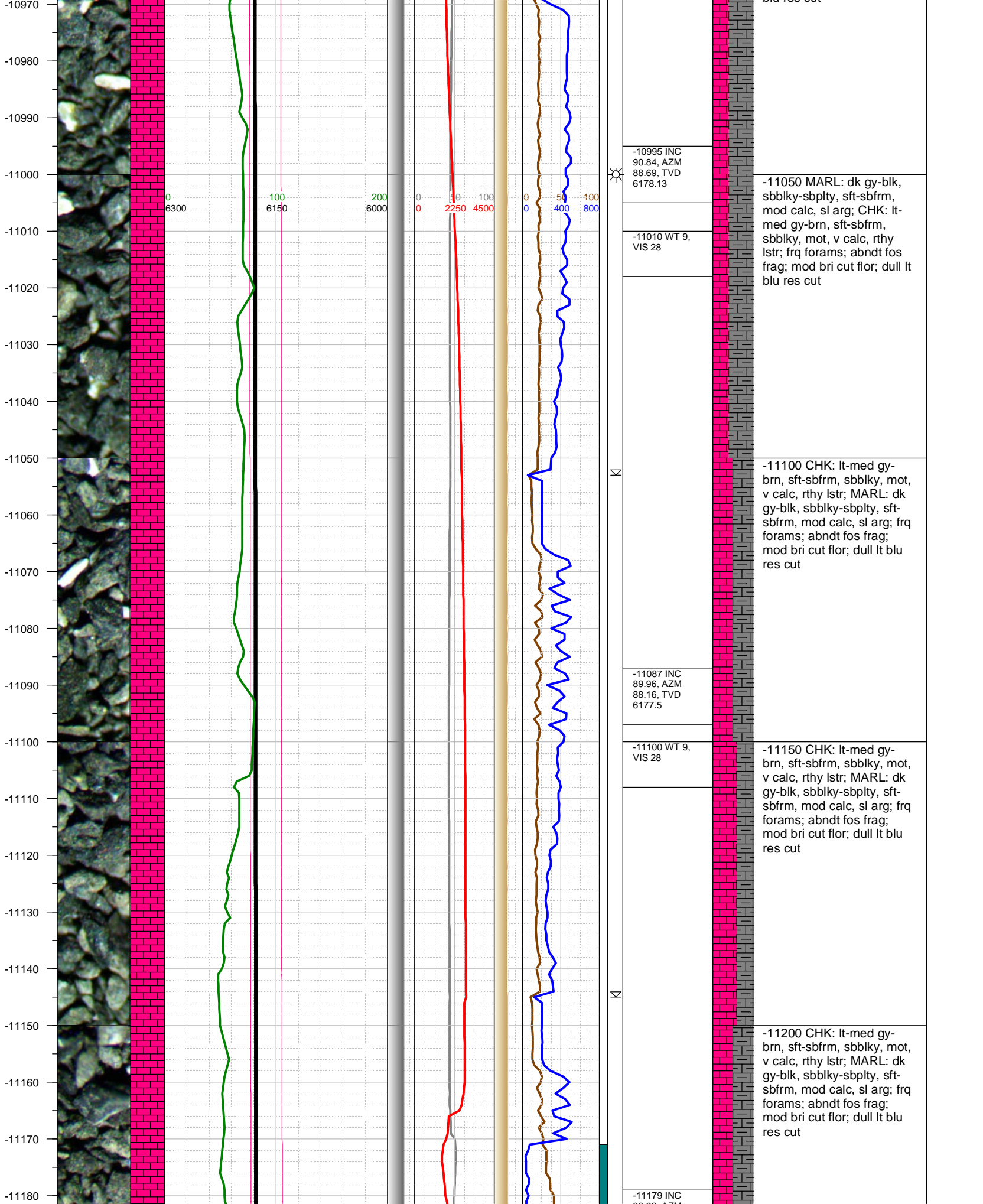
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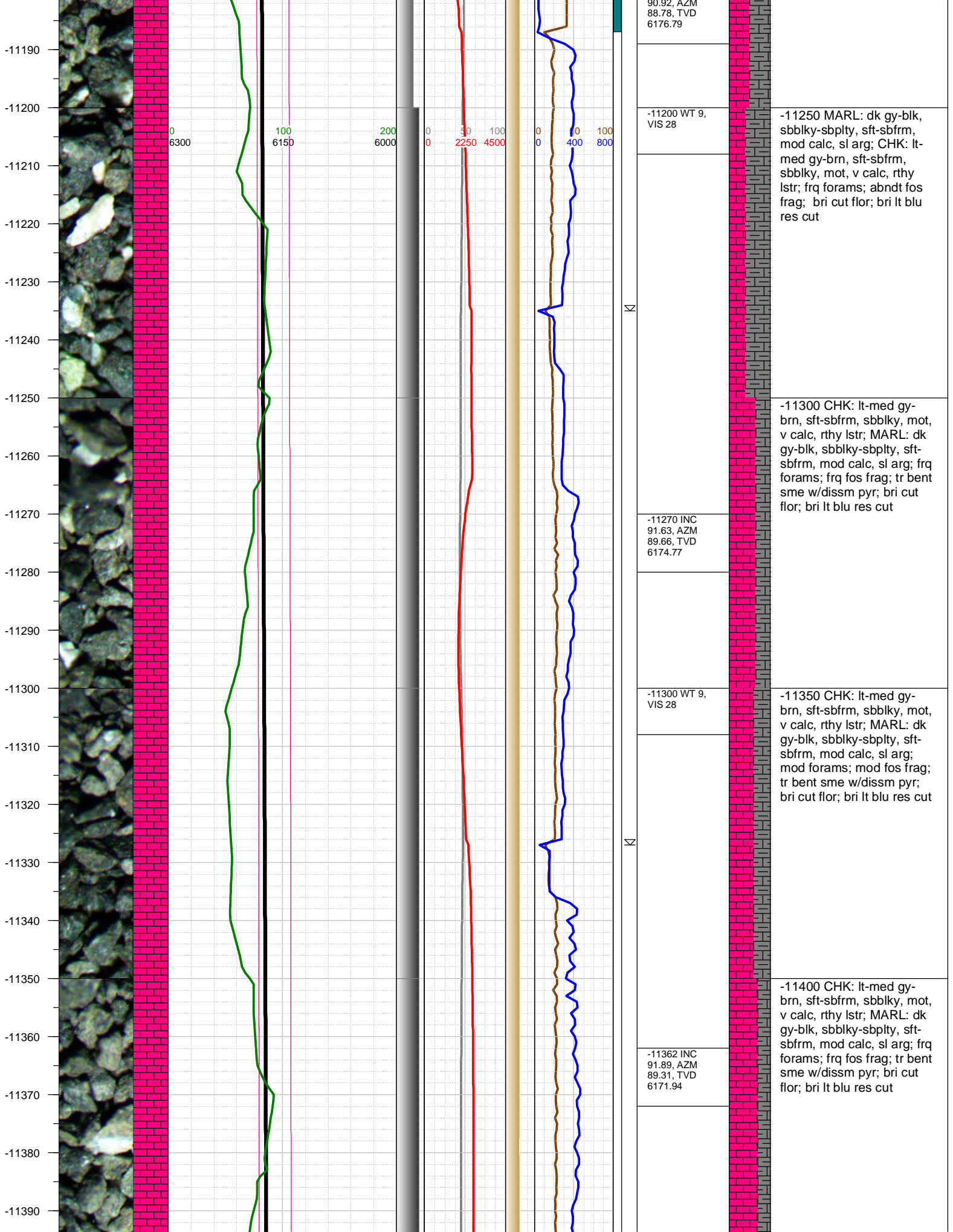
-10700 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; abndt fos frag; bri cut flor; bri lt blu res cut

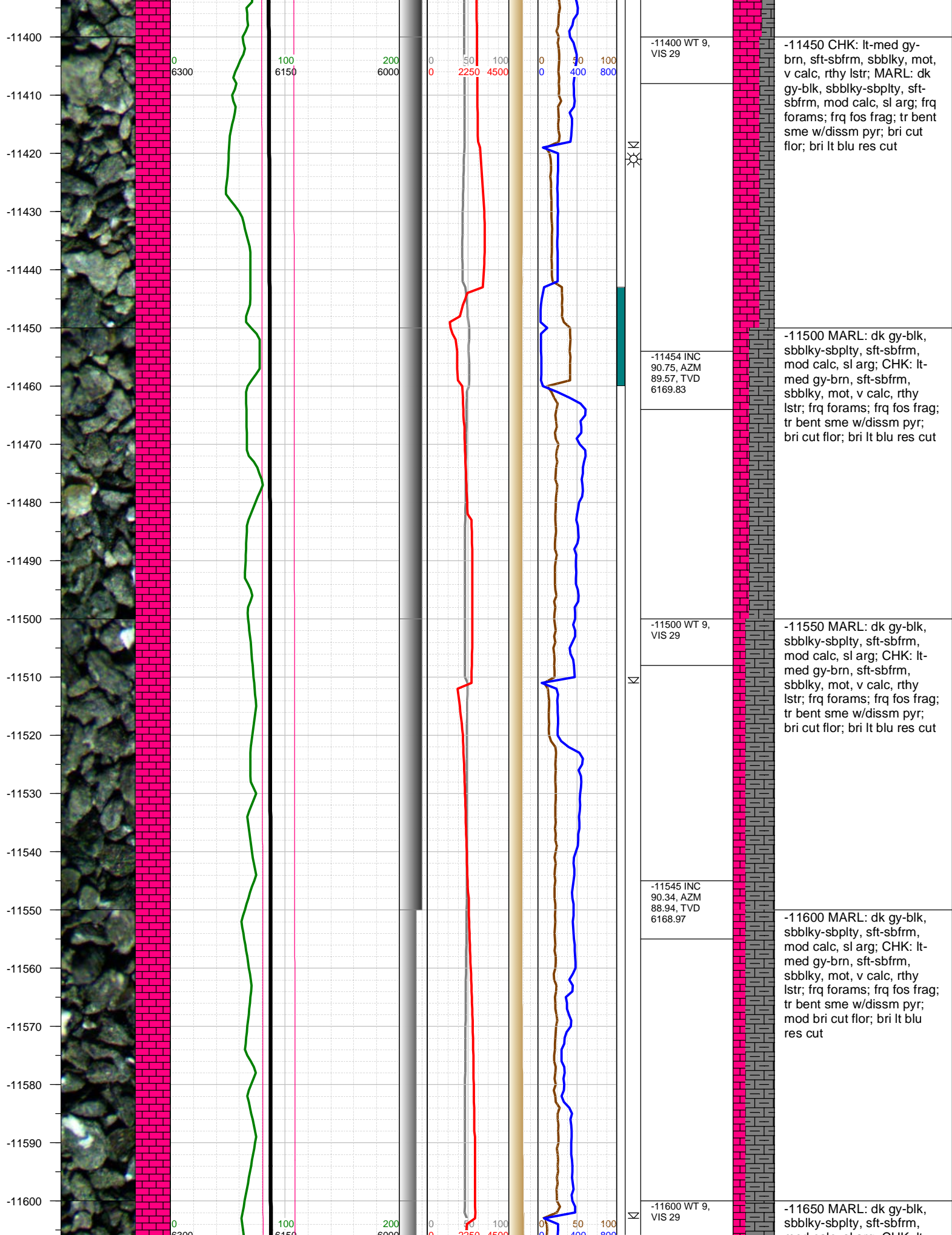
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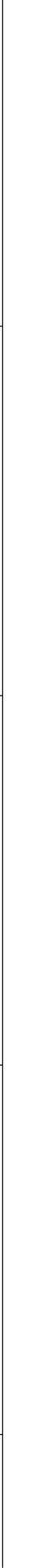
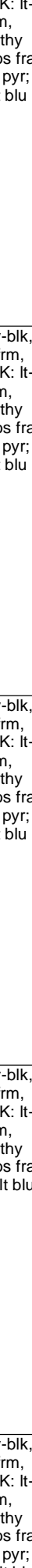
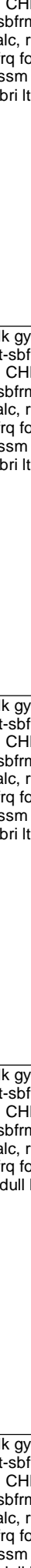
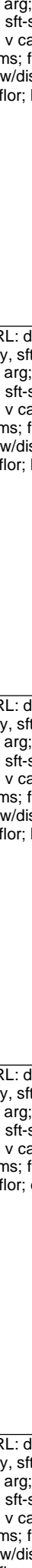
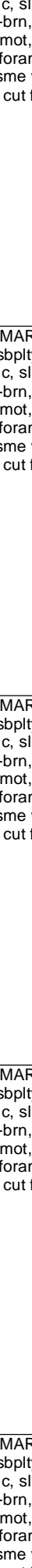
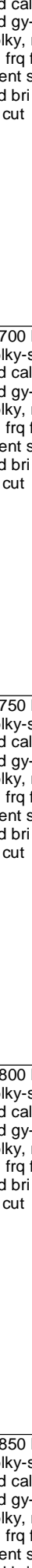
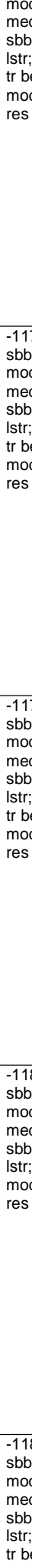
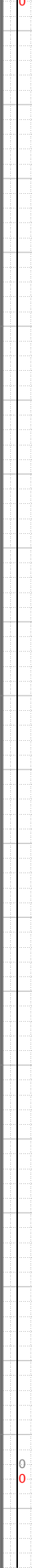
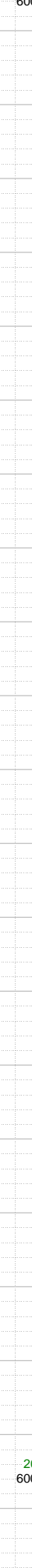
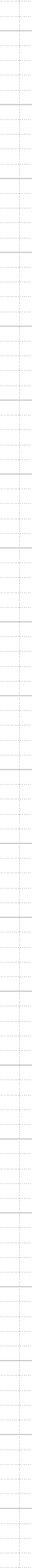
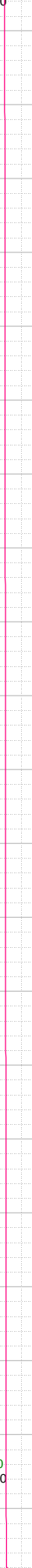
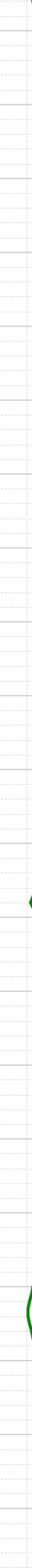
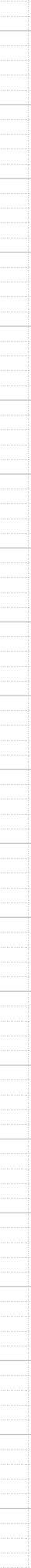
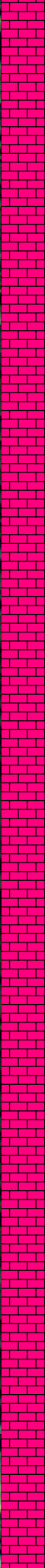
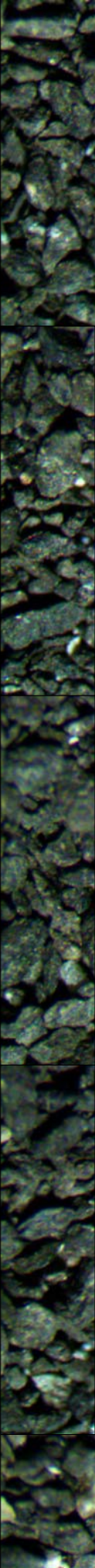








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-11636 INC
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88.78, TVD
6168.32

-11700 WT 9,
VIS 29

-11727 INC
90.48, AZM
88.87, TVD
6167.55

-11800 WT 9,
VIS 29

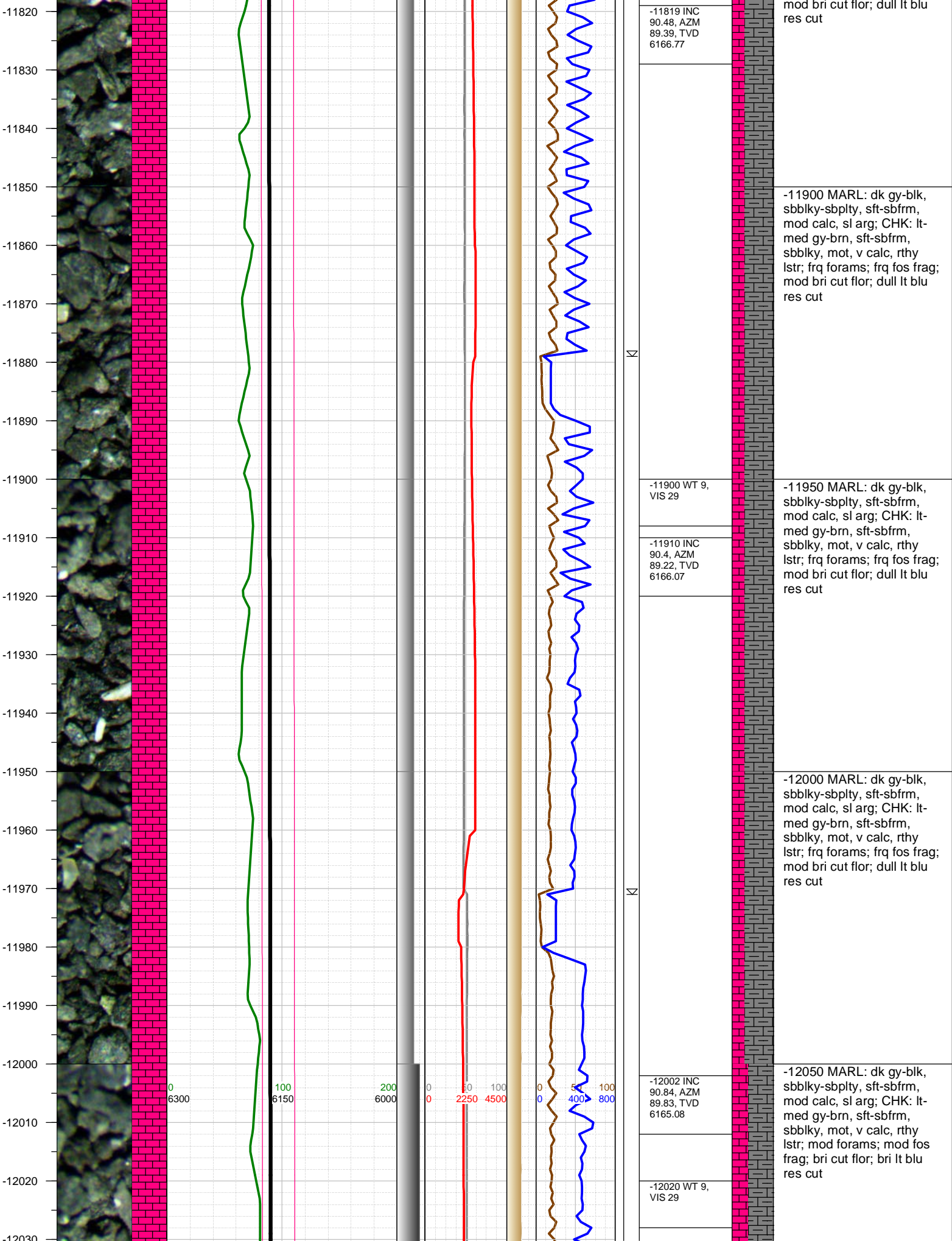
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; frq forams; frq fos frag;
tr bent sme w/dissm pyr;
mod bri cut flor; bri lt blu
res cut

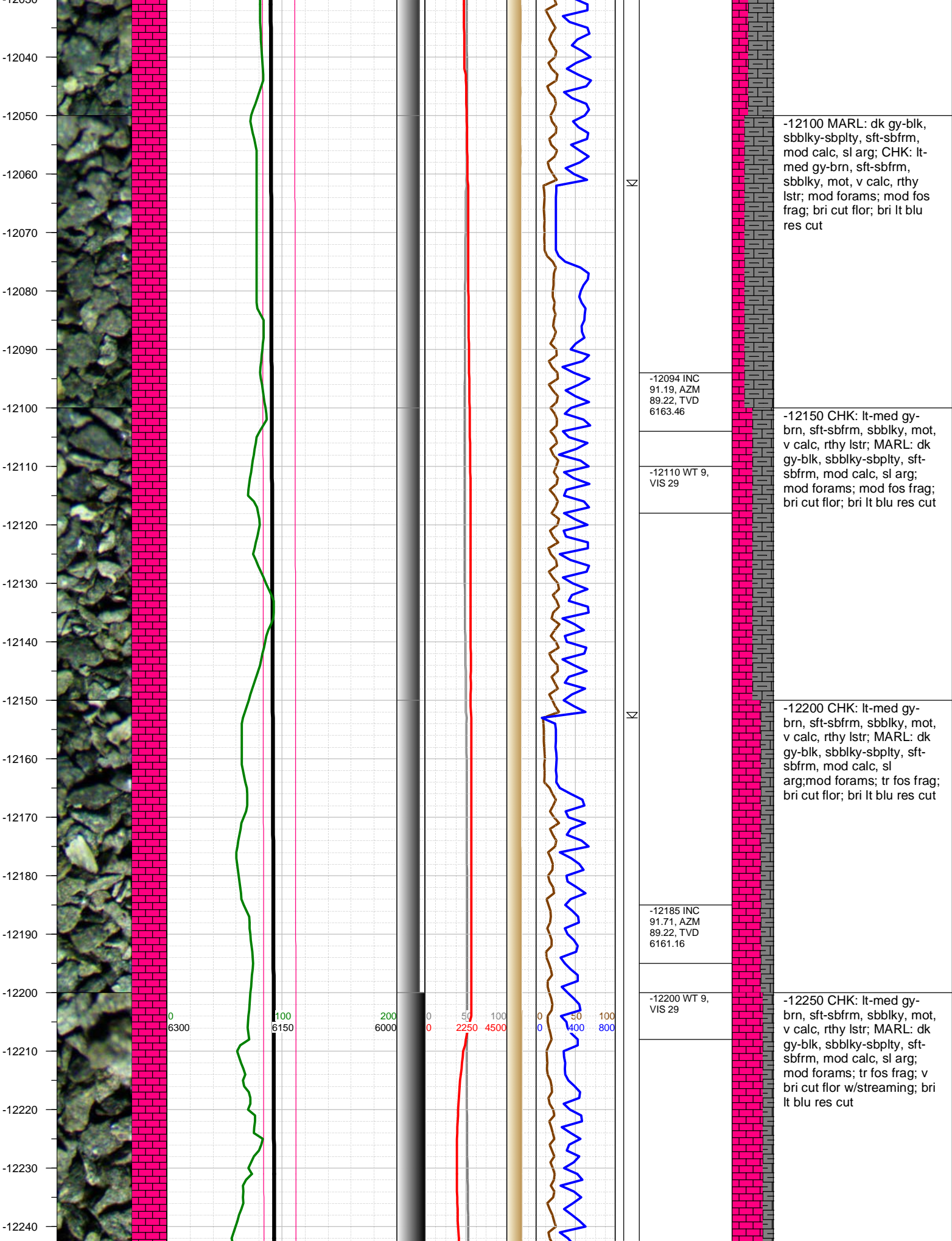
-11700 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; frq forams; frq fos frag;
tr bent sme w/dissm pyr;
mod bri cut flor; bri lt blu
res cut

-11750 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; frq forams; frq fos frag;
tr bent sme w/dissm pyr;
mod bri cut flor; bri lt blu
res cut

-11800 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; frq forams; frq fos frag;
mod bri cut flor; dull lt blu
res cut

-11850 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; frq forams; frq fos frag;
tr bent sme w/dissm pyr;





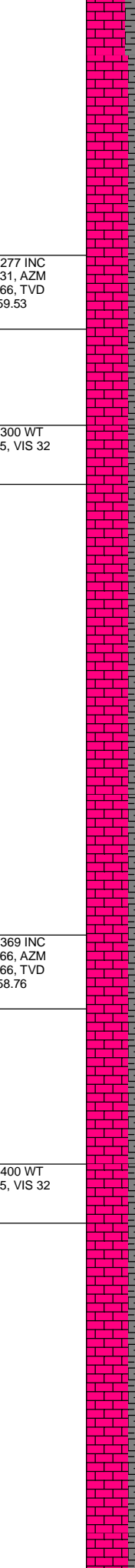
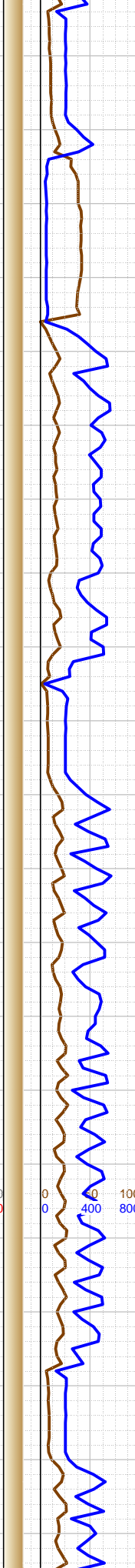
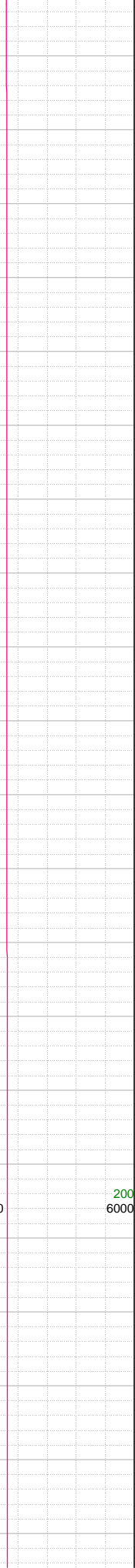
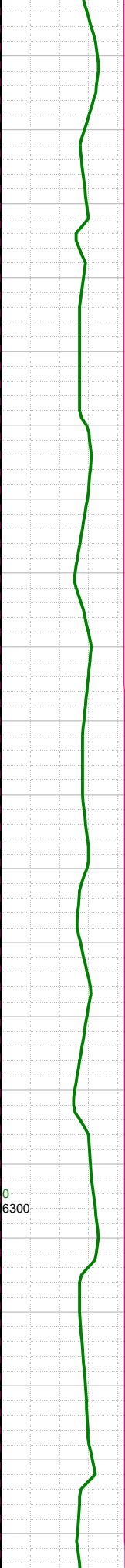
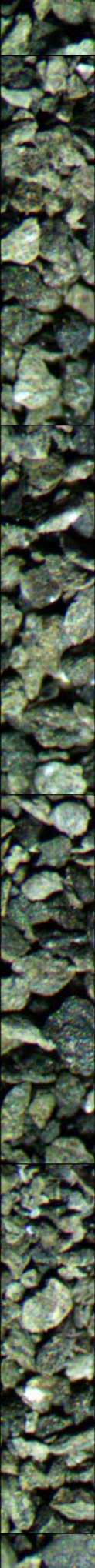
-12100 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; mod forams; mod fos frag; bri cut flor; bri lt blu res cut

-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 forams; mod fos frag; bri cut flor; 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 forams; tr fos frag; bri cut flor; 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 forams; tr fos frag; v bri cut flor w/streaming; bri lt blu res cut

-12250
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-12300 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 forams; mod fos frag; bri cut flor; bri lt blu res cut

-12277 INC
90.31, AZM
89.66, TVD
6159.53

-12300 WT
9.15, VIS 32

-12350 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 forams; mod fos frag; bri cut flor; bri lt blu res cut

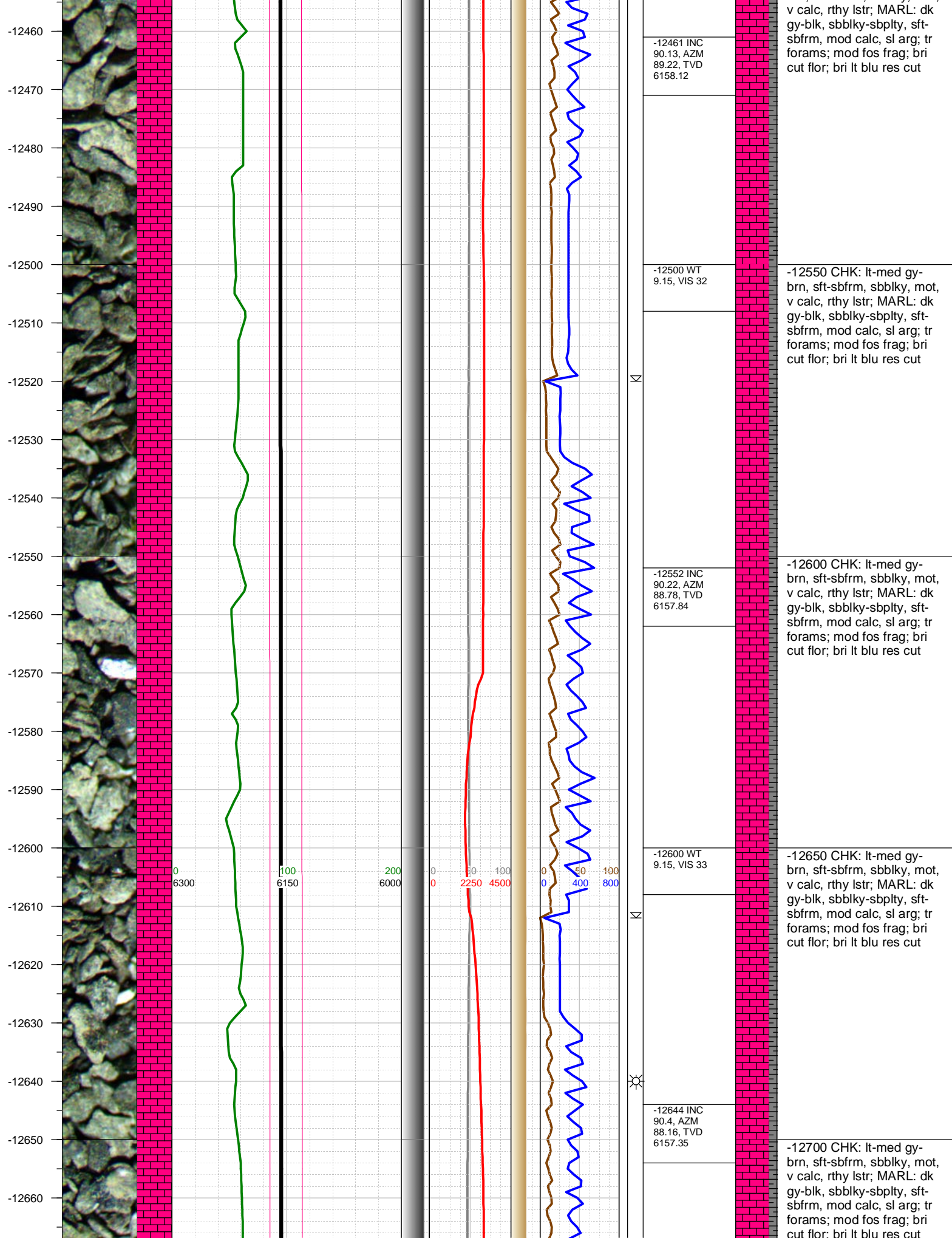
-12400 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frag; bri cut flor; bri lt blu res cut

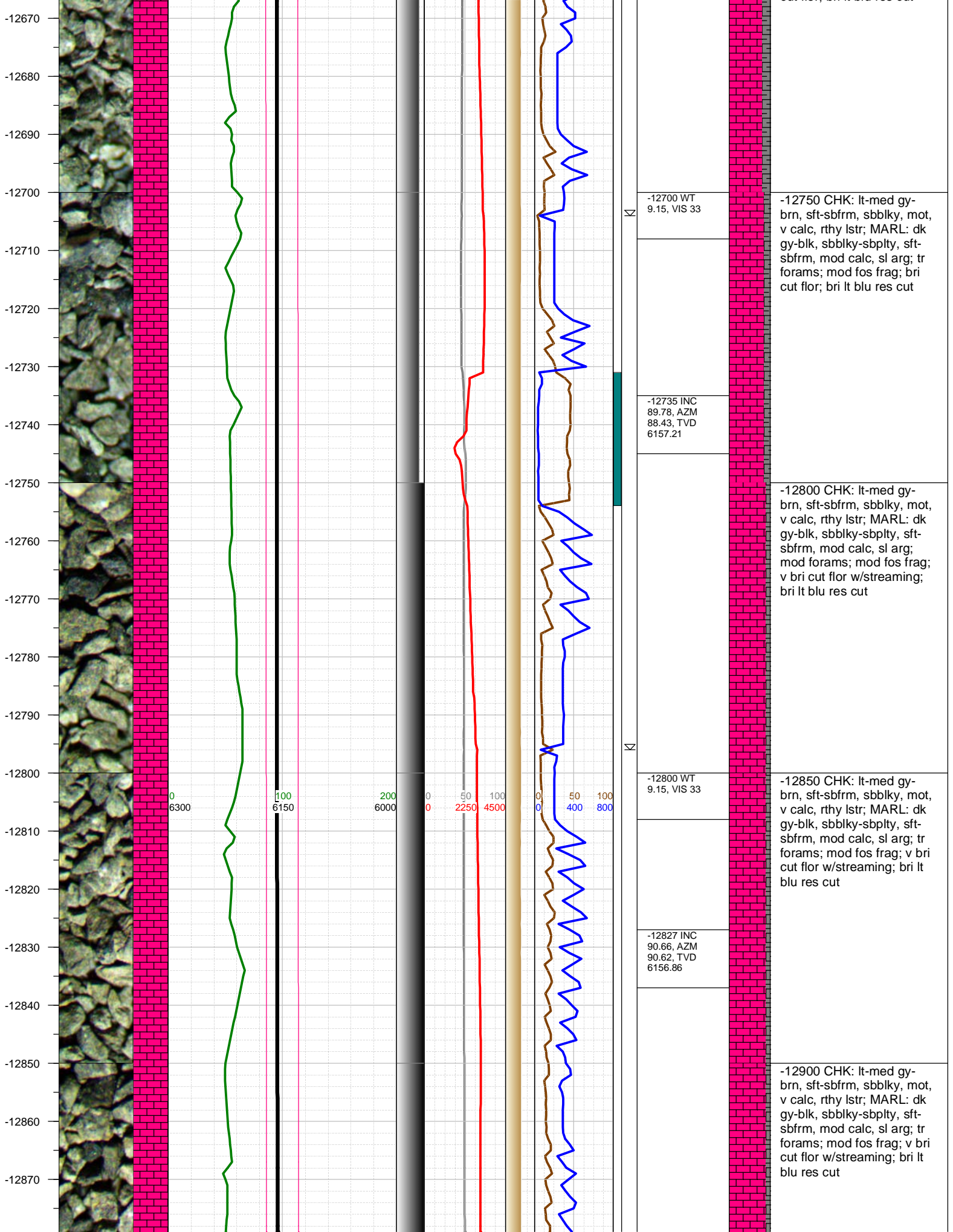
-12369 INC
90.66, AZM
89.66, TVD
6158.76

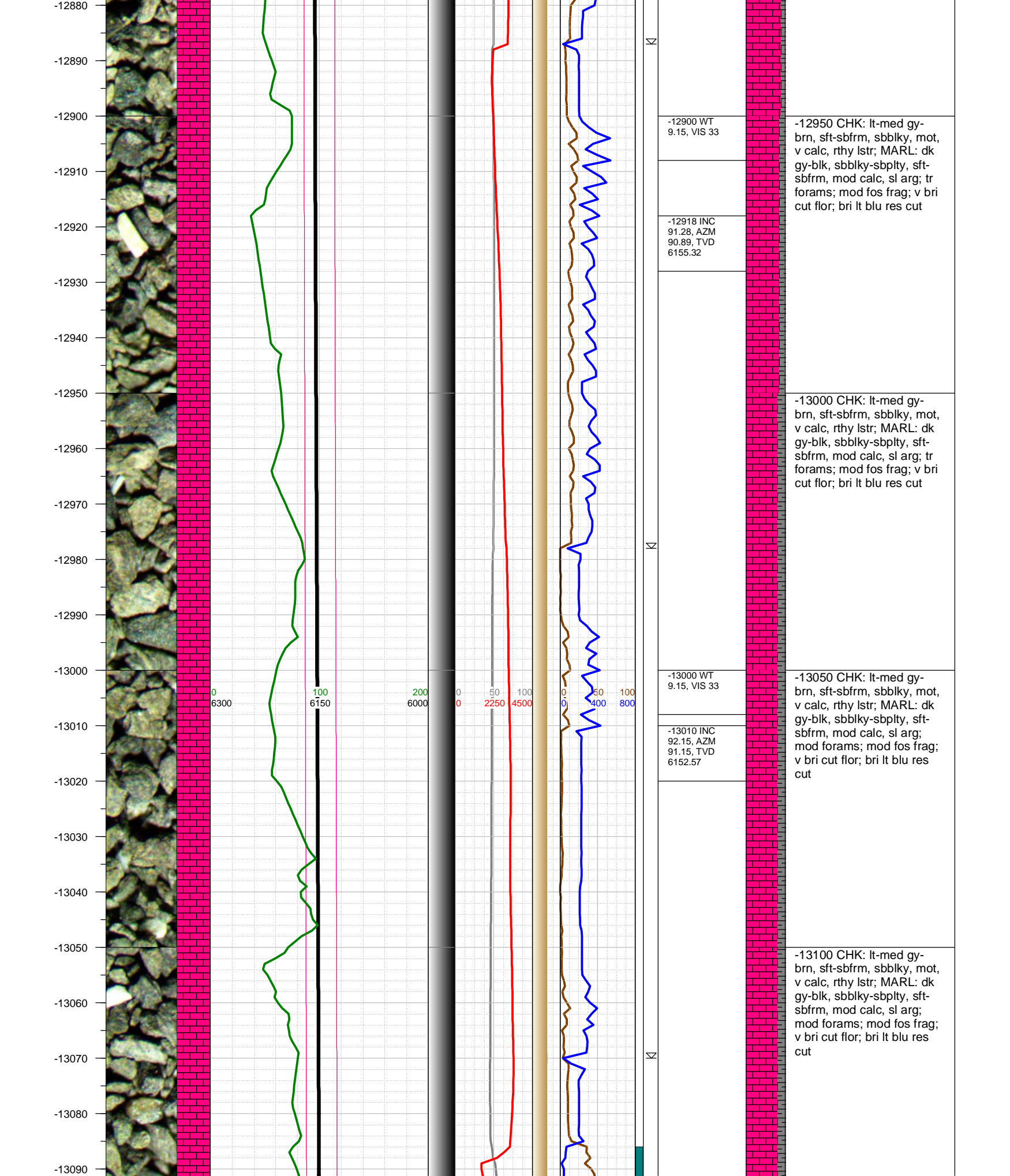
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9.15, VIS 32

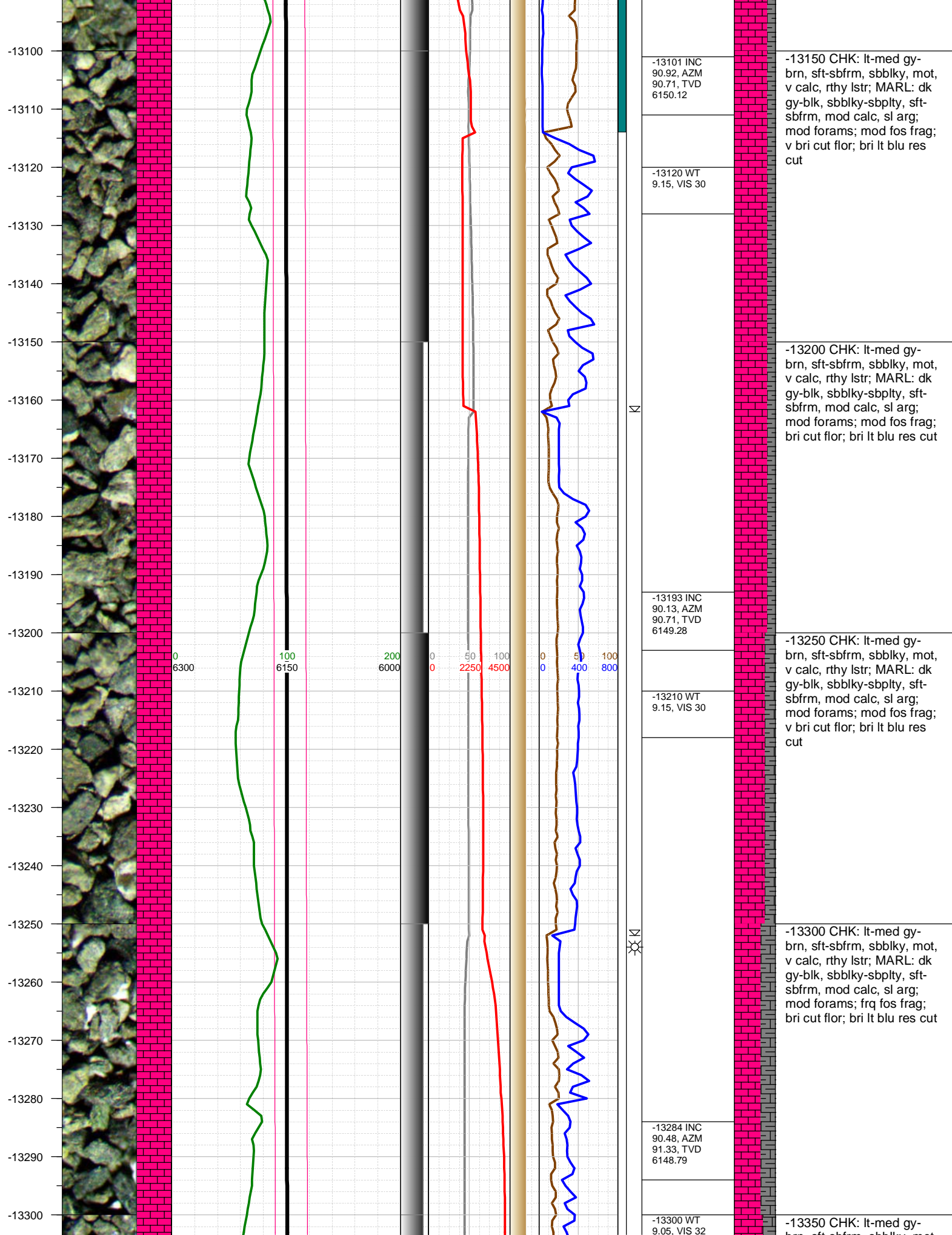
-12450 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frag; bri cut flor; bri lt blu res cut

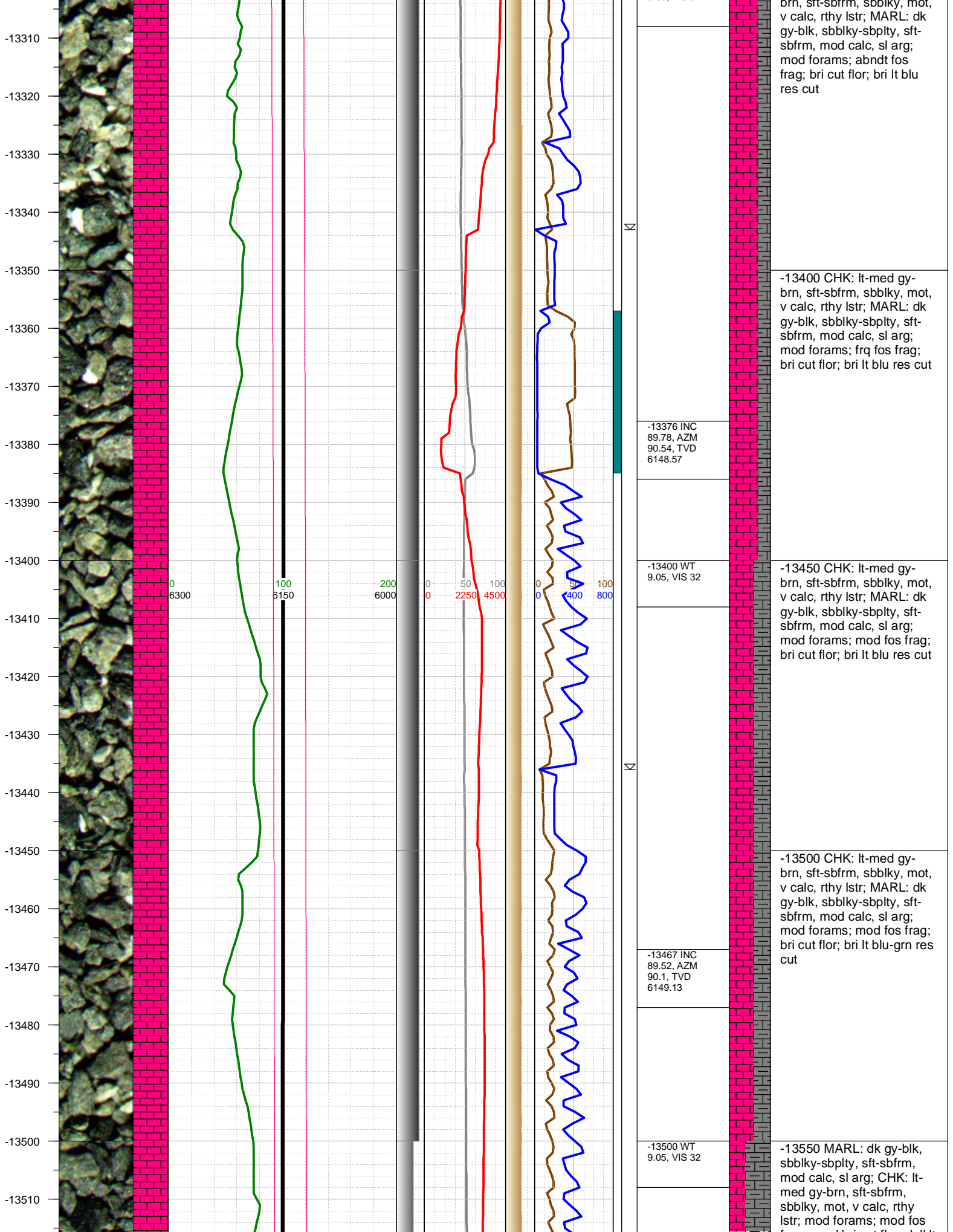
-12500 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot,



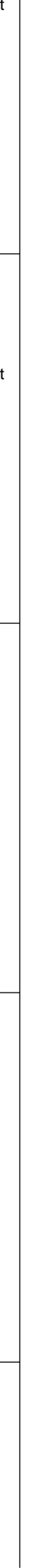
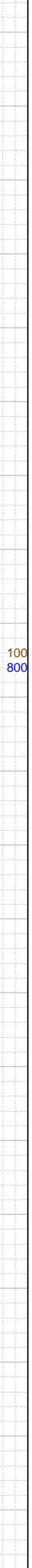
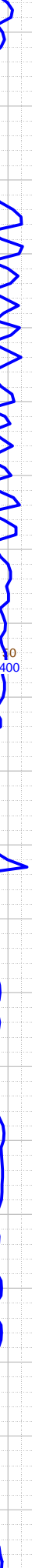
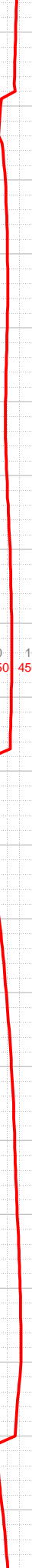
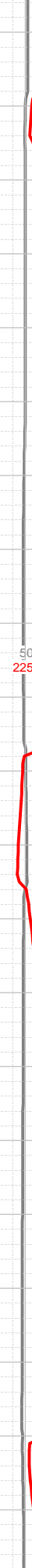
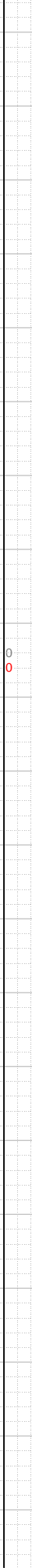
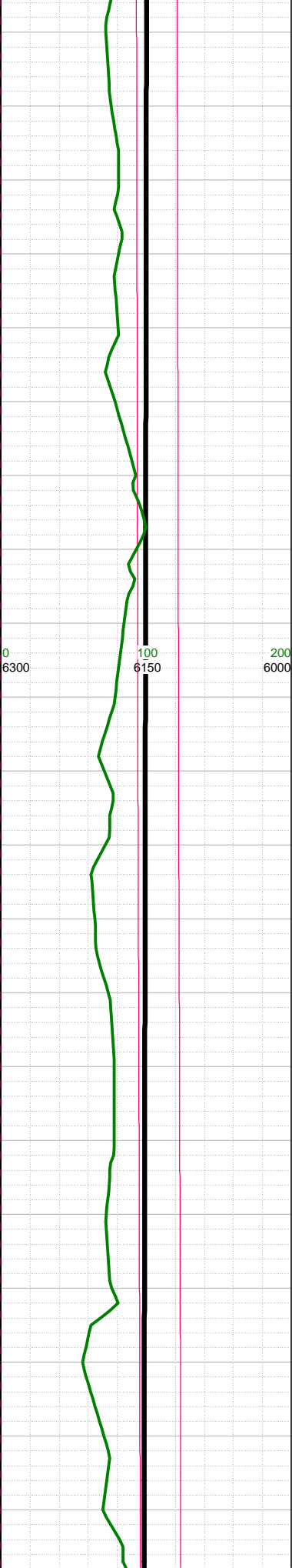
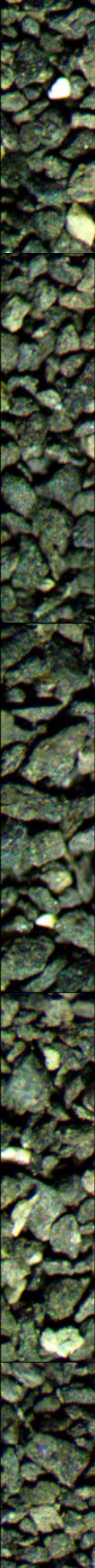








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-13700
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-13720



-13558 INC
89.25, AZM
90.54, TVD
6150.11

-13600 WT
9.05, VIS 32

-13650 INC
89.34, AZM
90.36, TVD
6151.24

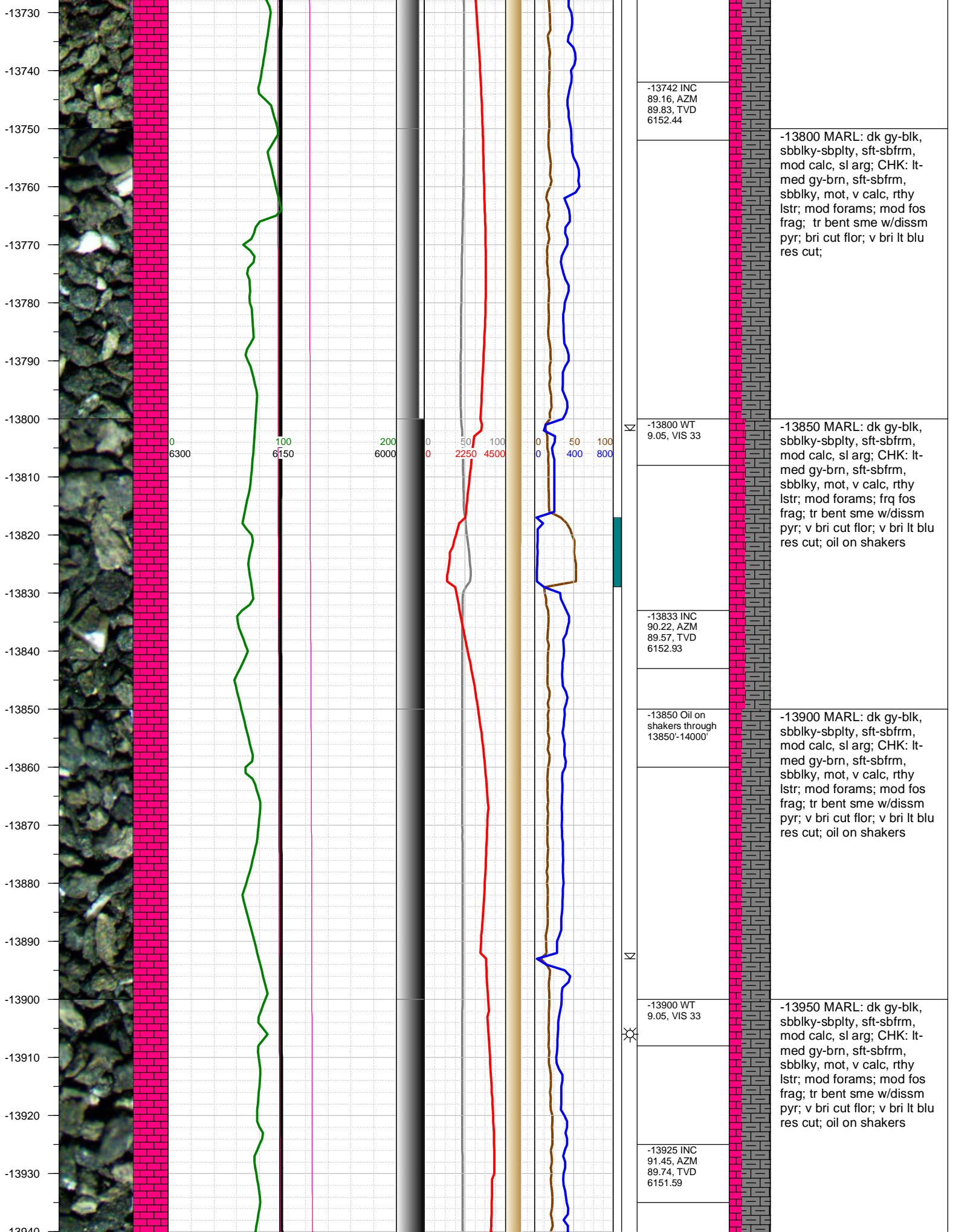
-13700 WT
9.05, VIS 33

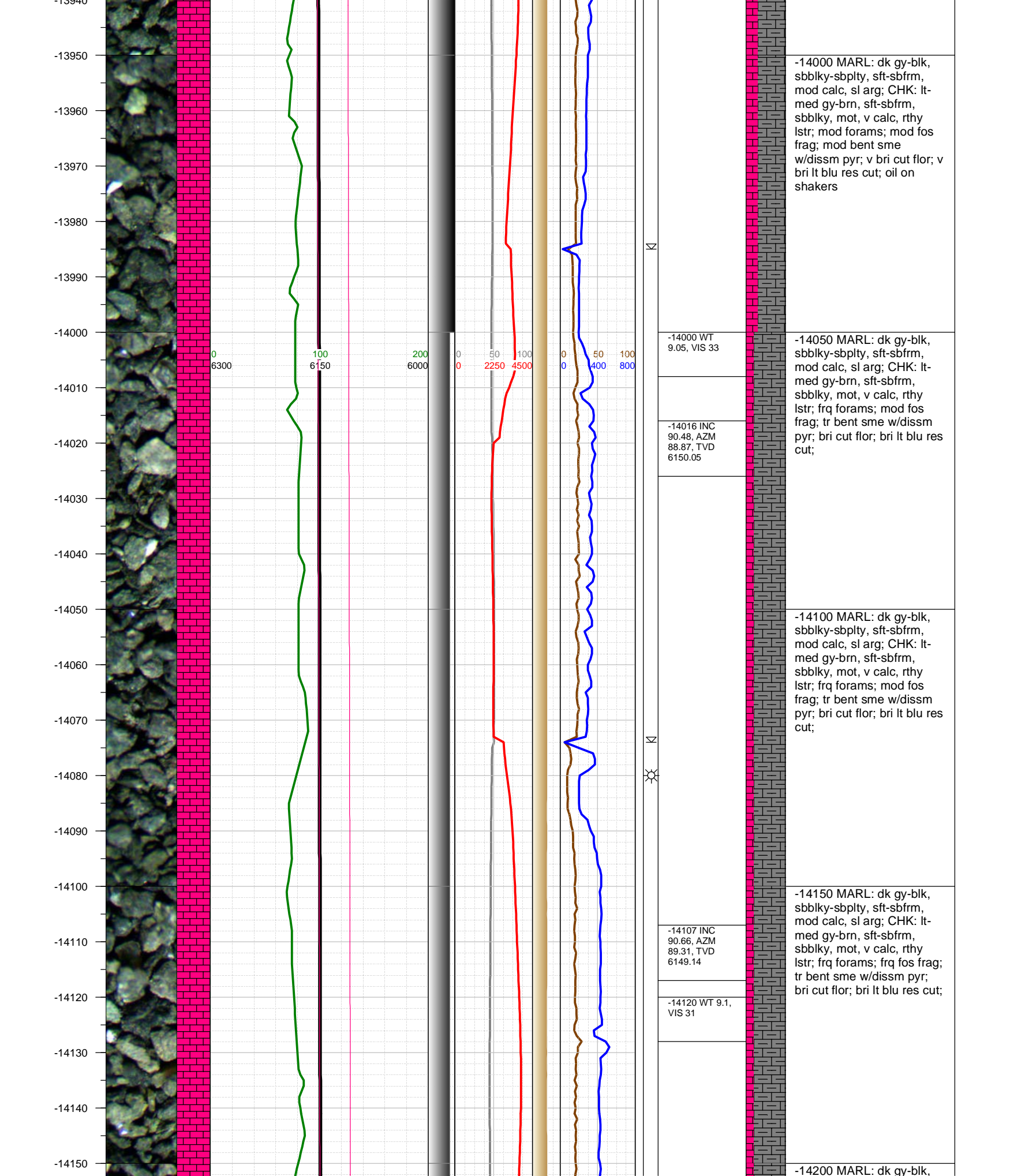
-13600 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbiky, mot, v calc, rthy
lstr; frq forams; mod fos
frag; mod bri cut flr; dull lt
blu-wh res cut

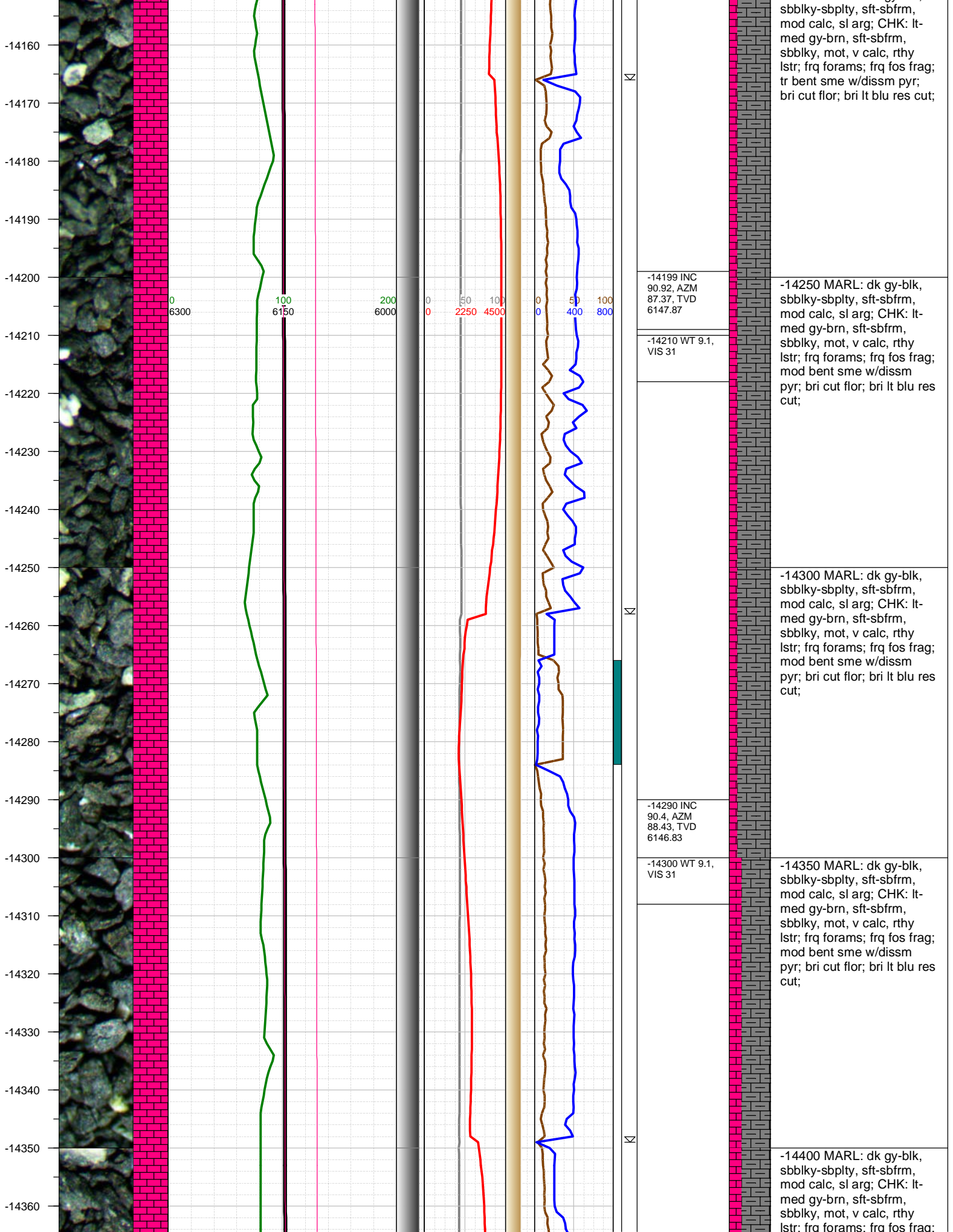
-13650 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbiky, mot, v calc, rthy
lstr; frq forams; mod fos
frag; mod bri cut flr; dull lt
blu res cut

-13700 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbiky, mot, v calc, rthy
lstr; frq forams; mod fos
frag; bri cut flr; bri lt blu
res cut

-13750 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbiky, mot, v calc, rthy
lstr; mod forams; mod fos
frag; bri cut flr; bri lt blu
res cut







-14199 INC
90.92, AZM
87.37, TVD
6147.87

-14210 WT 9.1,
VIS 31

-14290 INC
90.4, AZM
88.43, TVD
6146.83

-14300 WT 9.1,
VIS 31

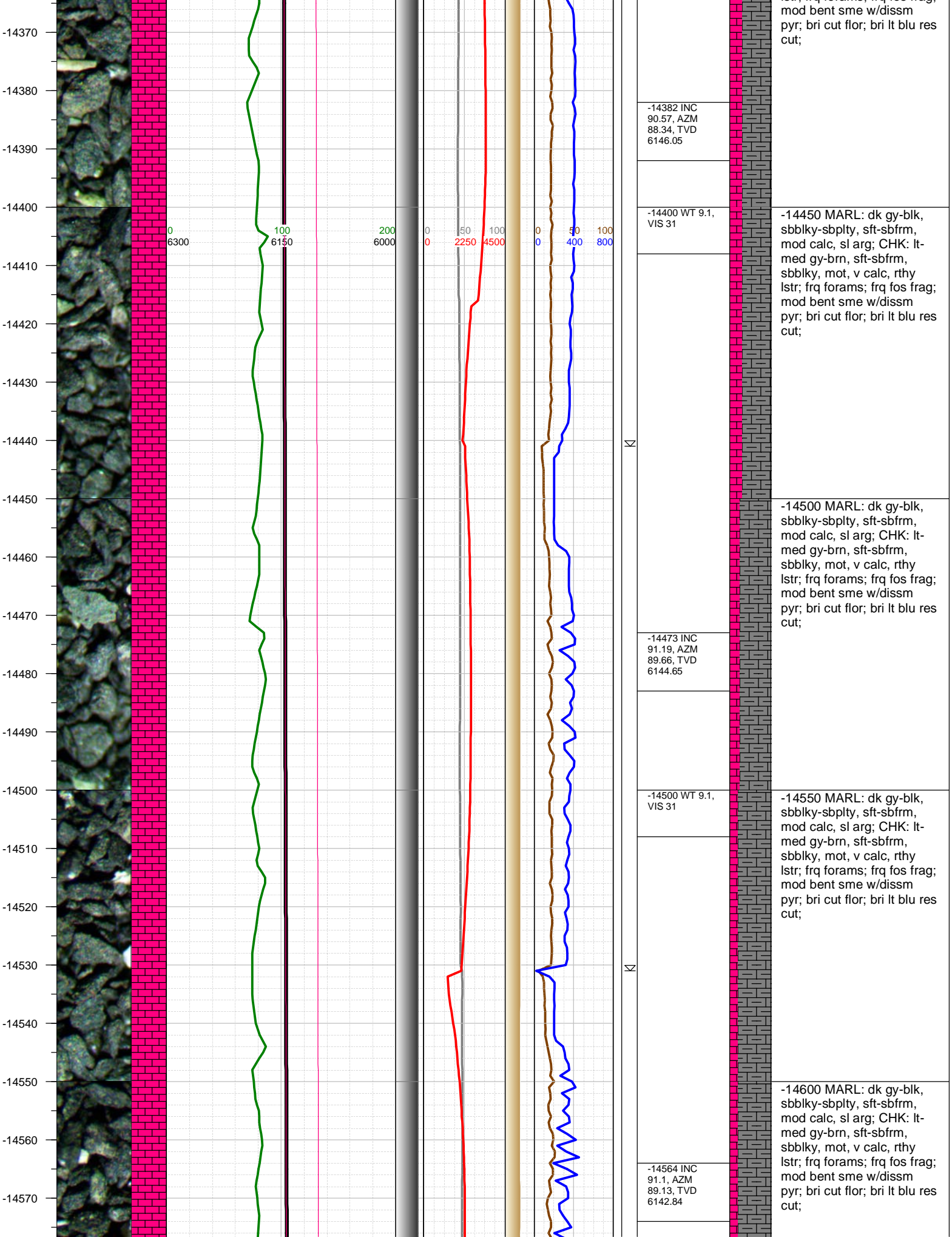
sbblky-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbblky, mot, v calc, rthy
lstr; frq forams; frq fos frag;
tr bent sme w/dissm pyr;
bri cut flr; bri lt blu res cut;

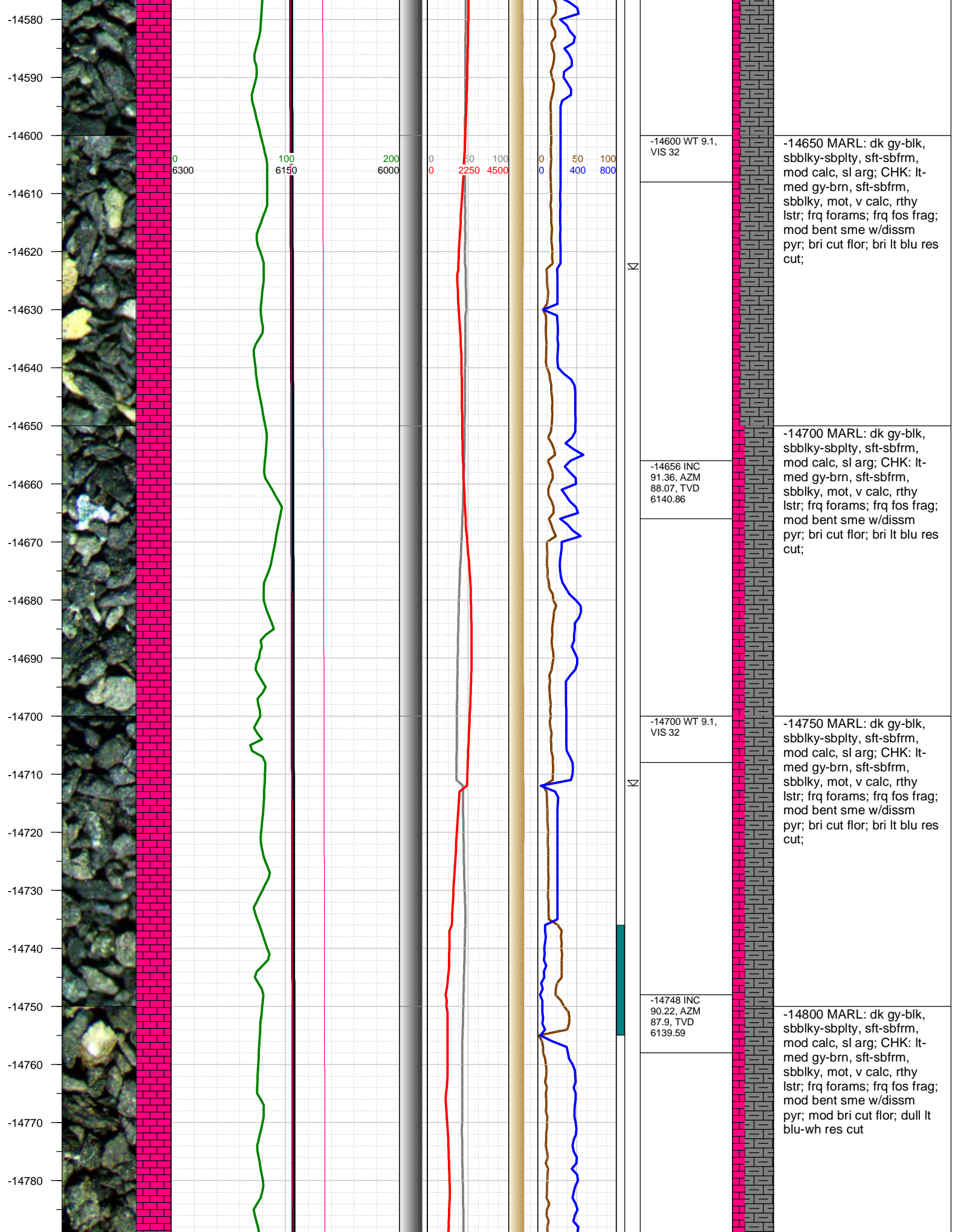
-14250 MARL: dk gy-blk,
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mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbblky, mot, v calc, rthy
lstr; frq forams; frq fos frag;
mod bent sme w/dissm
pyr; bri cut flr; bri lt blu res
cut;

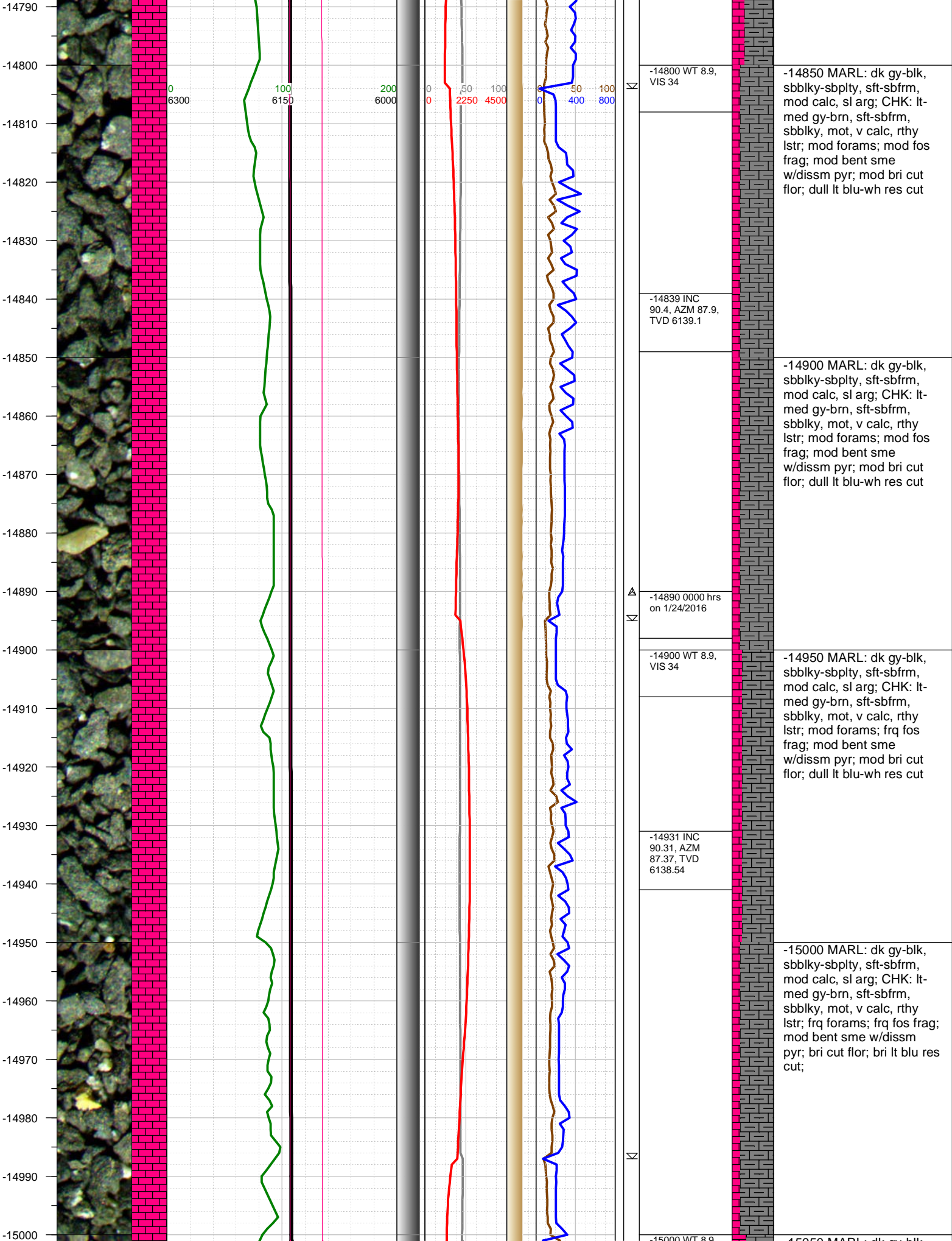
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mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbblky, mot, v calc, rthy
lstr; frq forams; frq fos frag;
mod bent sme w/dissm
pyr; bri cut flr; bri lt blu res
cut;

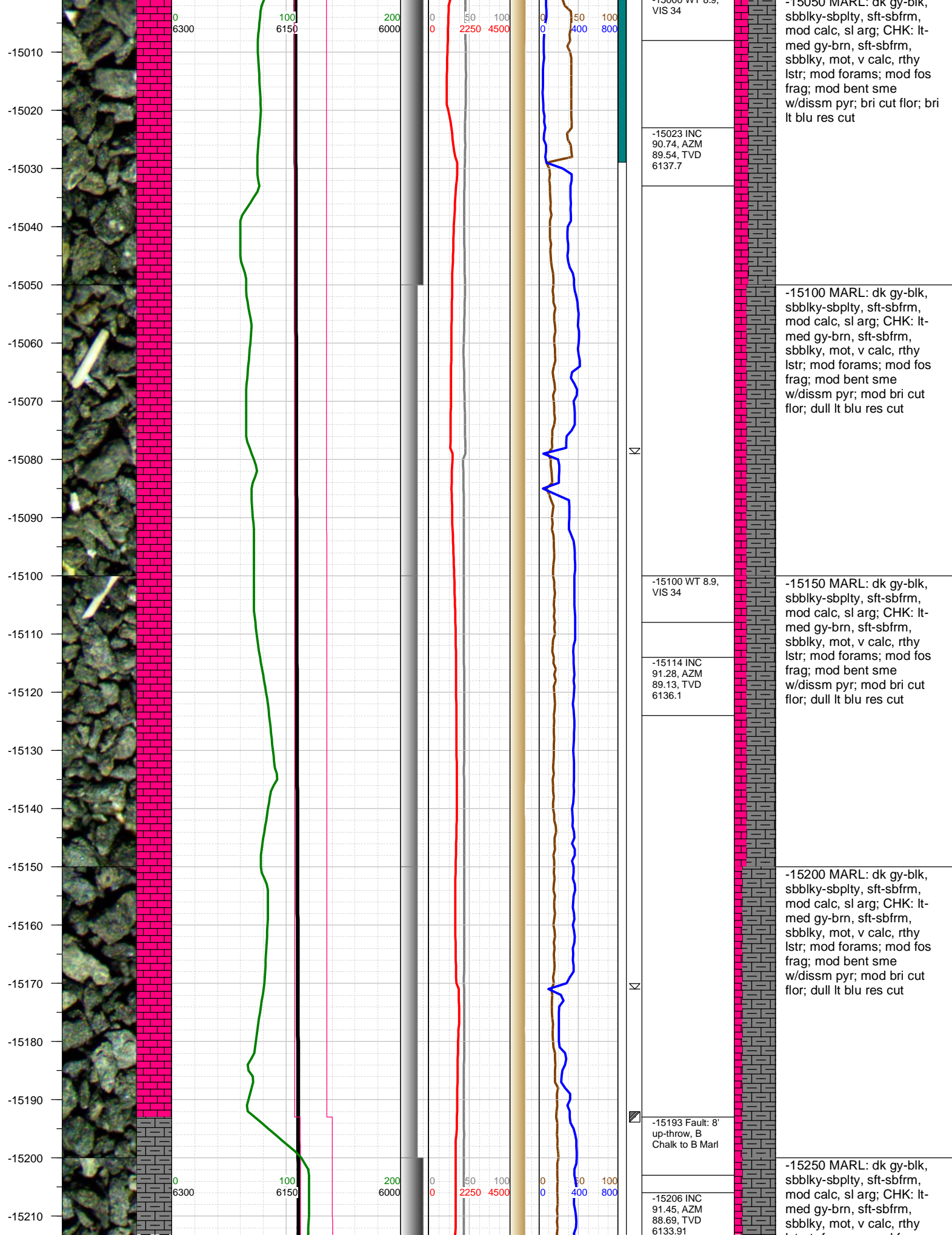
-14350 MARL: dk gy-blk,
sbblky-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbblky, mot, v calc, rthy
lstr; frq forams; frq fos frag;
mod bent sme w/dissm
pyr; bri cut flr; bri lt blu res
cut;

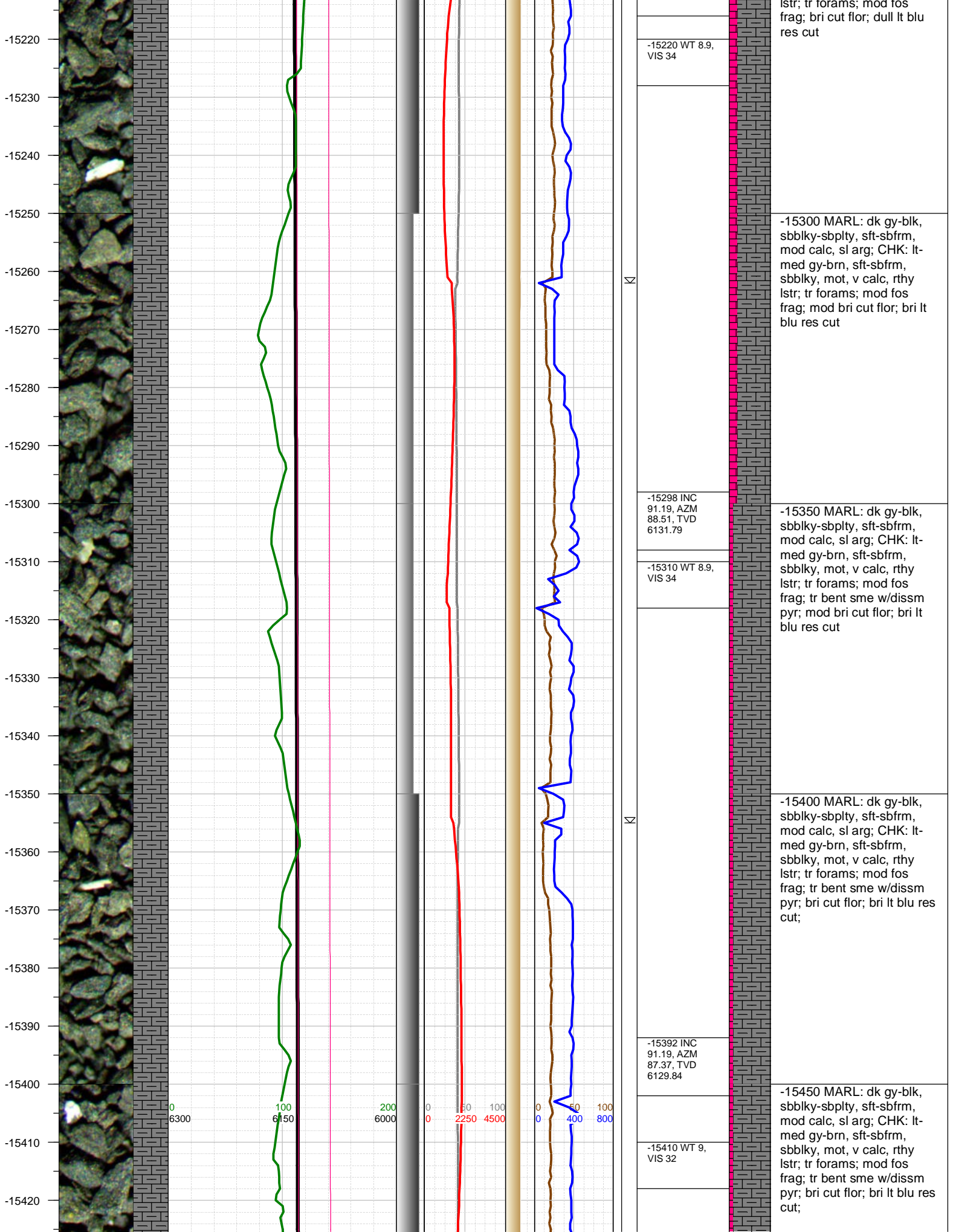
-14400 MARL: dk gy-blk,
sbblky-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbblky, mot, v calc, rthy
lstr; frq forams; frq fos frag;



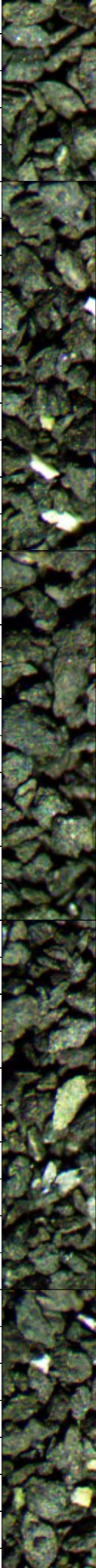








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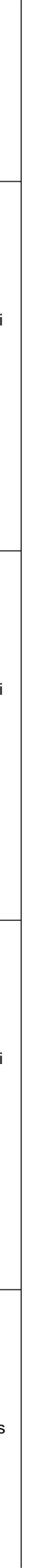
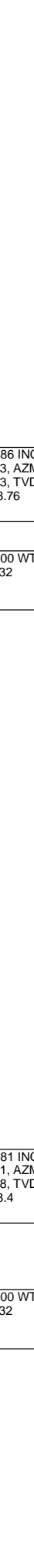
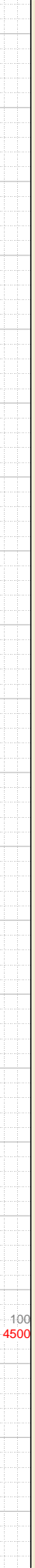
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6300

100
6150

200
6000

0 50 100
0 2250 4500

0 50 100
0 400 800



Σ

Σ

-15486 INC
90.13, AZM
89.13, TVD
6128.76

-15500 WT 9,
VIS 32

-15581 INC
90.31, AZM
88.78, TVD
6128.4

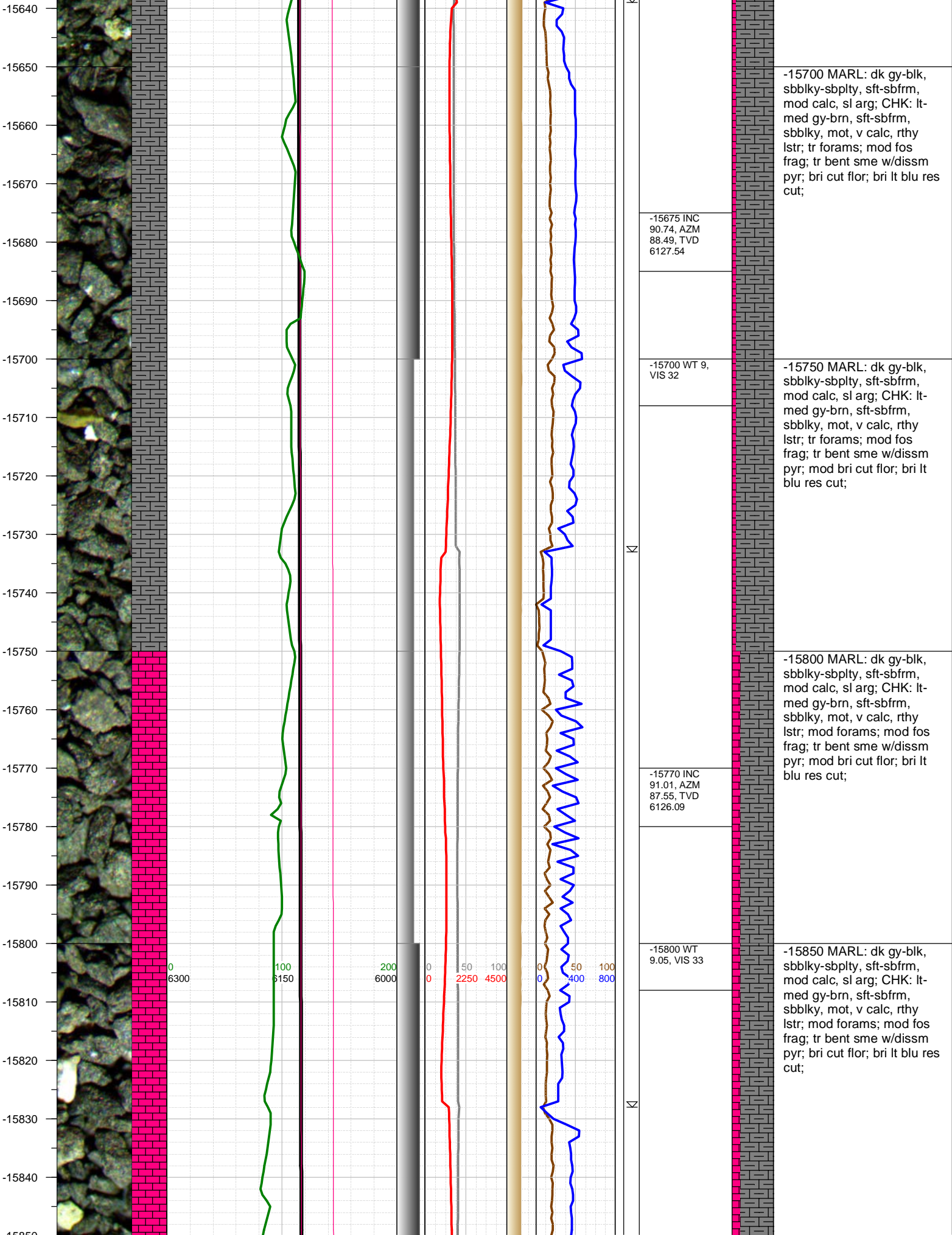
-15600 WT 9,
VIS 32

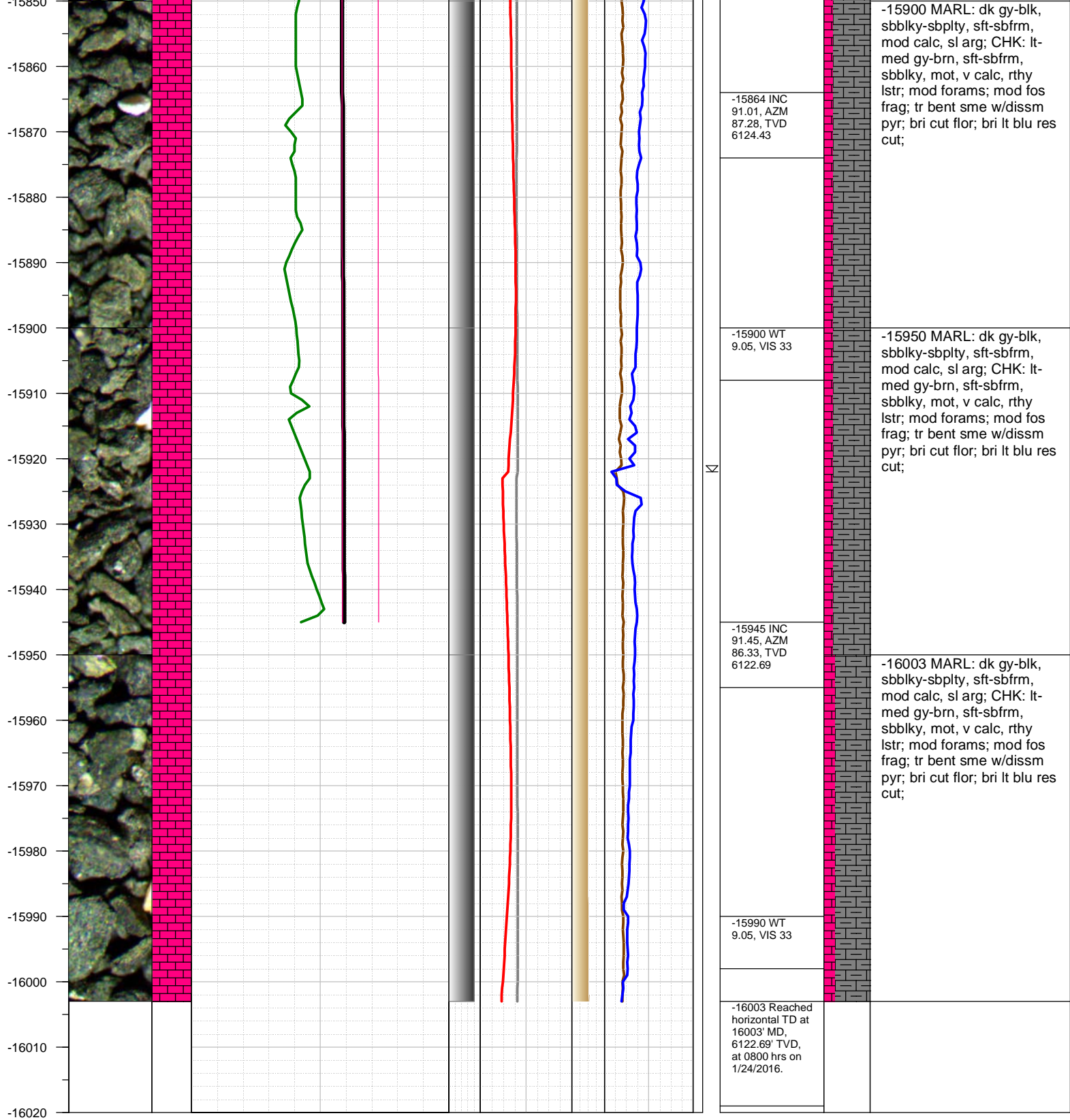
-15500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; mod forams; mod fos frag; mod bent sme w/dissm pyr; bri cut flor; bri lt blu res cut;

-15550 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; mod forams; mod fos frag; mod bent sme w/dissm pyr; bri cut flor; bri lt blu res cut;

-15600 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; mod forams; mod fos frag; mod bent sme w/dissm pyr; bri cut flor; bri lt blu res cut;

-15650 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 forams; mod fos frag; tr bent sme w/dissm pyr; bri cut flor; bri lt blu res cut;





TOTAL DEPTH = 16003'

Thank you for using Earth Science Agency