

OPERATOR: **Bill Barrett Corp**

WELL NAME: **Anschutz State 5-62-22-1724B2**

FIELD NAME: Wattenberg

DRILLING RIG: Cade 24

API #: 05-123-41755

SCALE: 5" = 100'

SURFACE HOLE: 2015 FNL, 350 FWL

LOCATION: SWNW Sec 22, T5N, R62W



Earth Science Agency, LLC

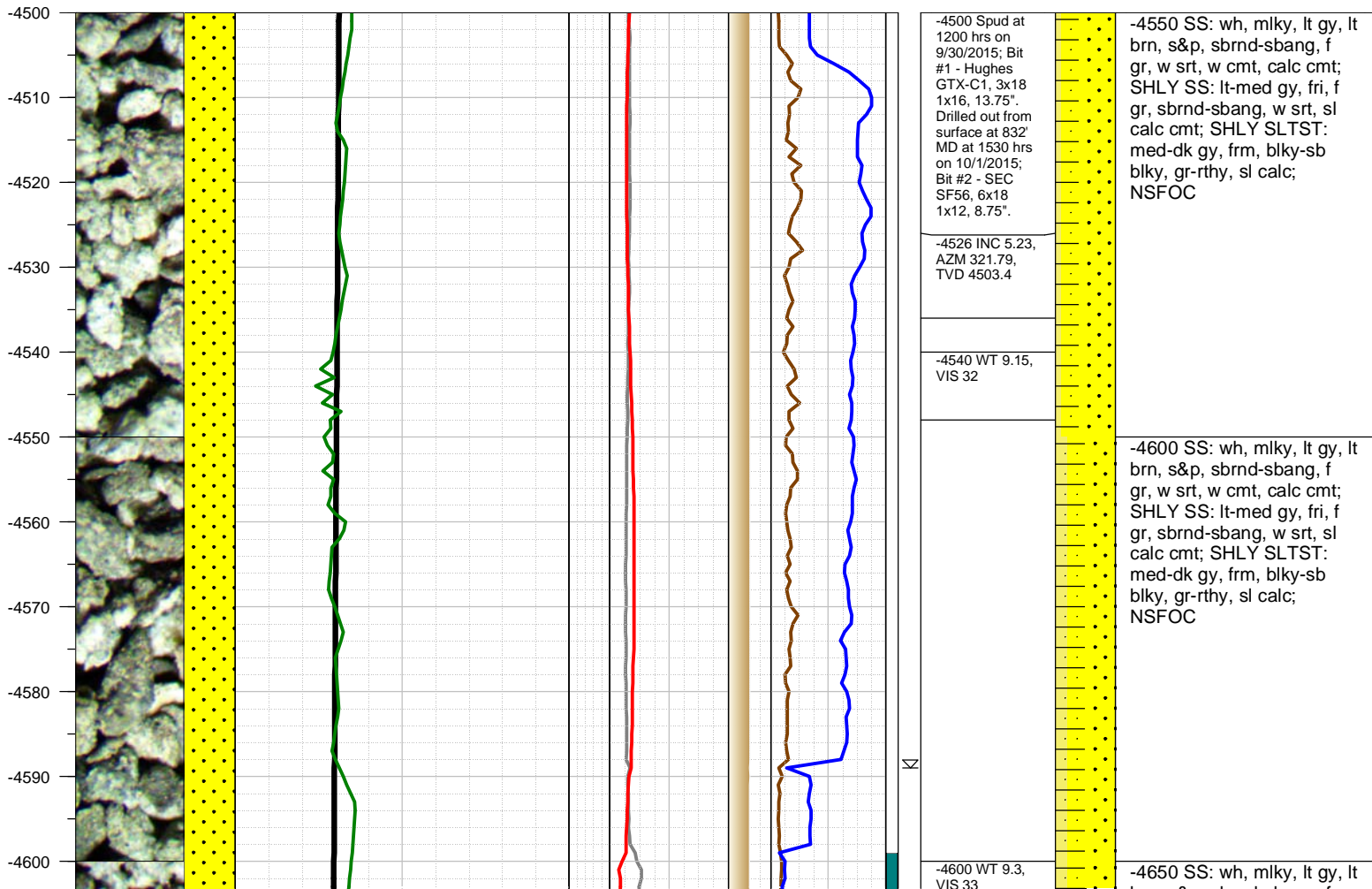
COUNTY: Weld
 STATE: Colorado
 GROUND ELEVATION: 4719'
 KELLY BUSHING: 4735'
 DRILLING FLUID: LSND
 TVD VS. MD: 6302' / 16407'
 SPUD DATE: October 1, 2015
 BEGIN LOGGING: 4500'; October 1, 2015
 TD DATE: October 7, 2015
 DATES LOGGED: October 1, 2015 - October 7, 2015
 DEPTHS LOGGED: 4500' - 16407'
 LOGGER: Blue Spikes, Tyson Barnes

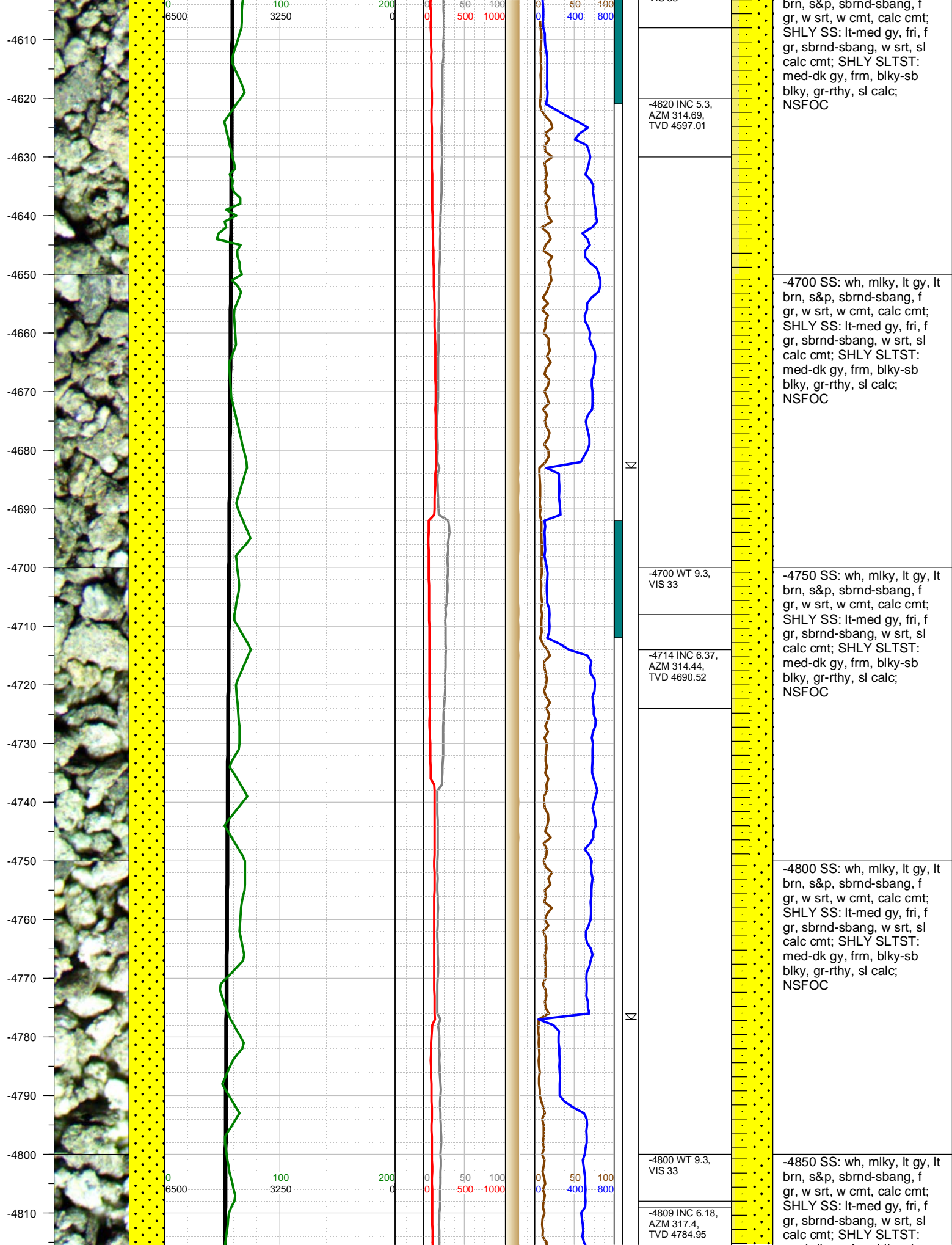
LEGEND

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

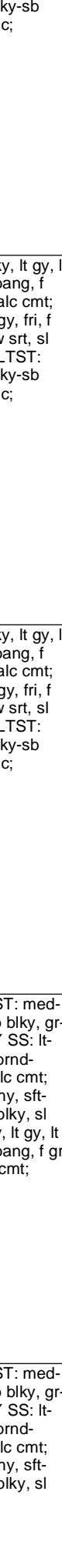
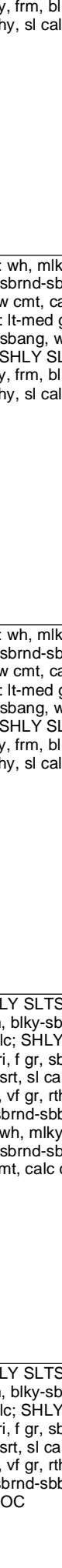
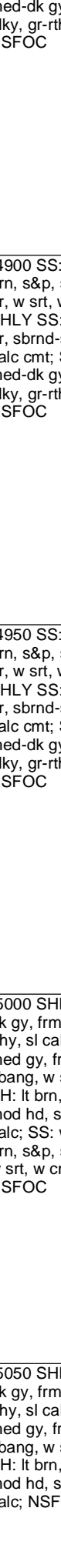
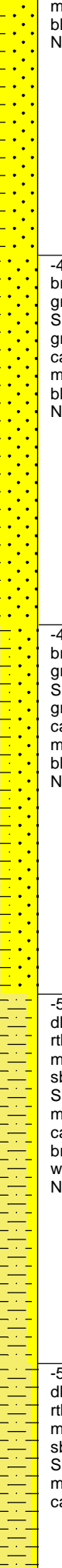
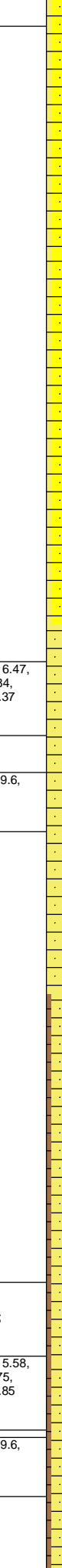
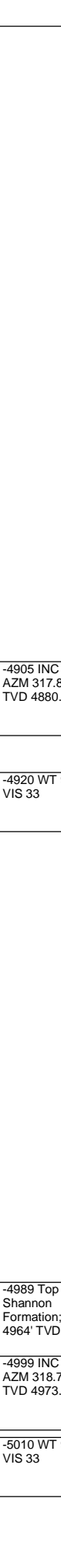
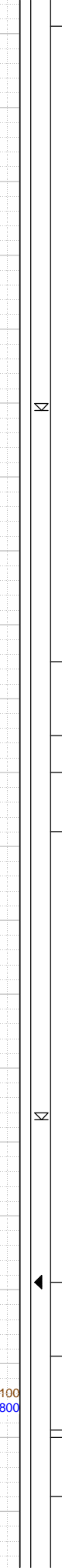
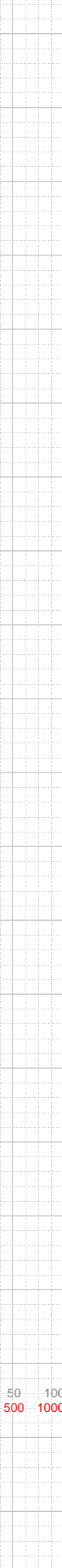
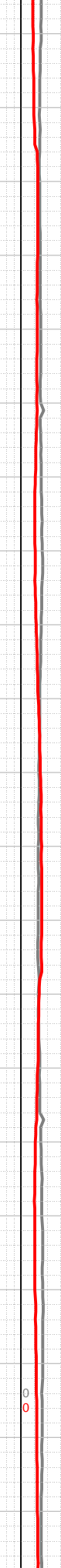
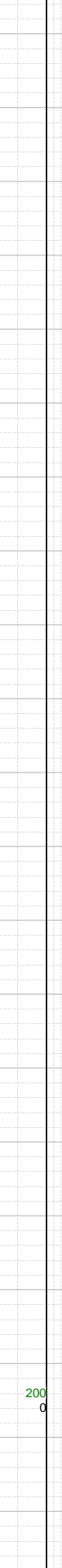
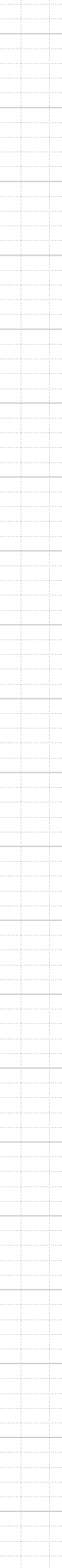
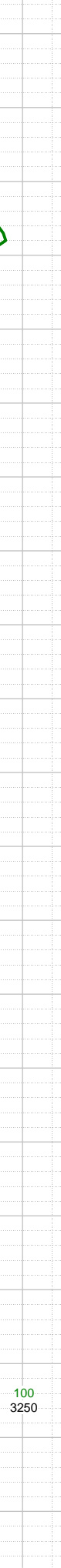
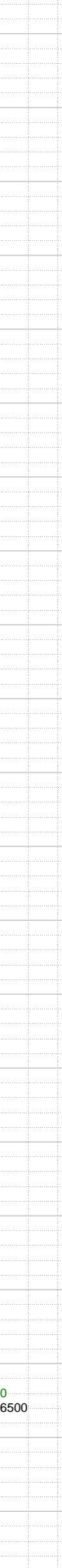
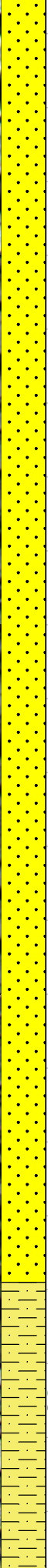
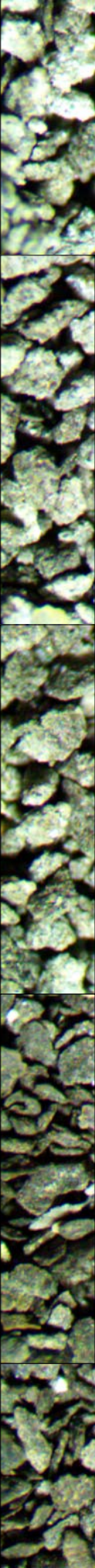
◀ FORMATION ≈ CONNECTION ▲ MIDNIGHT 🏠 NEW BIT ☀ GAS SHOW ▣ FAULT

MEASURED DEPTH (FT)	PHOTOS	GEOSTEERING INTERP		OIL SHOWS	GAS units 1000	ROP ft/hr 800	COMMENTS	CUTTINGS %	SAMPLE DESCRIPTION
		MUDLOGGER INTERP							
		TARGET TOP & BASE							
		6500	TVD ft		0	0			
		0	GAMMA api		0	0			
					100	100			





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-4970
-4980
-4990
-5000
-5010
-5020



med-dk gy, frm, blkly-sb
blkly, gr-rthy, sl calc;
NSFOC

-4900 SS: wh, mlky, lt gy, lt
brn, s&p, sbrnd-sbang, f
gr, w srt, w cmt, calc cmt;
SHLY SS: lt-med gy, fri, f
gr, sbrnd-sbang, w srt, sl
calc cmt; SHLY SLTST:
med-dk gy, frm, blkly-sb
blkly, gr-rthy, sl calc;
NSFOC

-4950 SS: wh, mlky, lt gy, lt
brn, s&p, sbrnd-sbang, f
gr, w srt, w cmt, calc cmt;
SHLY SS: lt-med gy, fri, f
gr, sbrnd-sbang, w srt, sl
calc cmt; SHLY SLTST:
med-dk gy, frm, blkly-sb
blkly, gr-rthy, sl calc;
NSFOC

-4905 INC 6.47,
AZM 317.84,
TVD 4880.37

-4920 WT 9.6,
VIS 33

-5000 SHLY SLTST: med-
dk gy, frm, blkly-sb blkly, 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-sbbkly, sl
calc; SS: wh, mlky, lt gy, lt
brn, s&p, sbrnd-sbang, f gr,
w srt, w cmt, calc cmt;
NSFOC

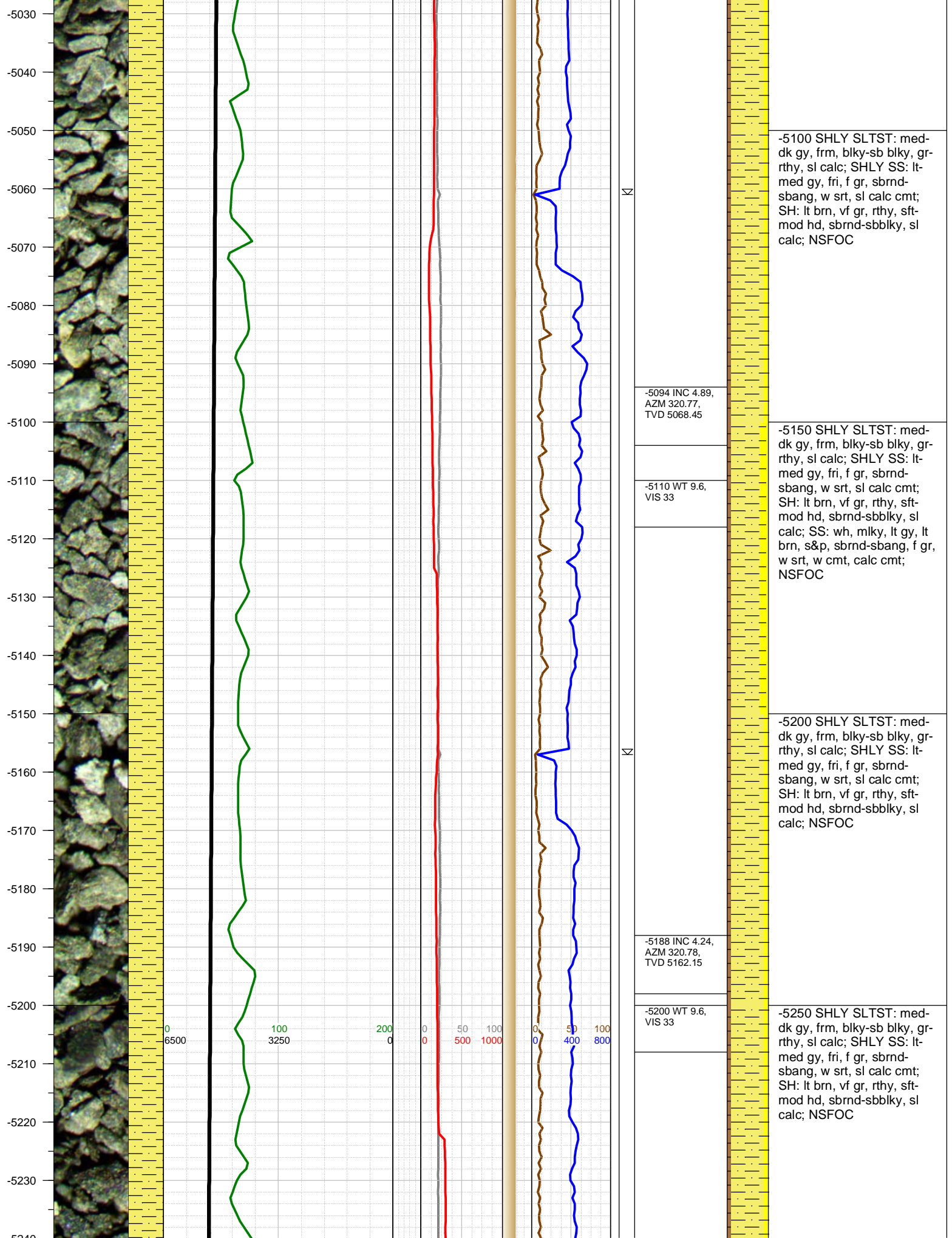
-4989 Top
Shannon
Formation;
4964' TVD

-4999 INC 5.58,
AZM 318.75,
TVD 4973.85

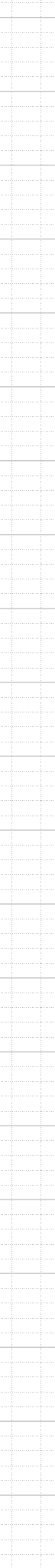
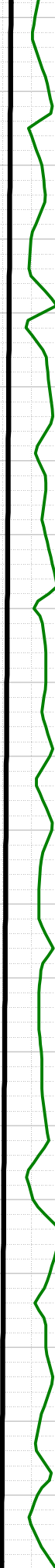
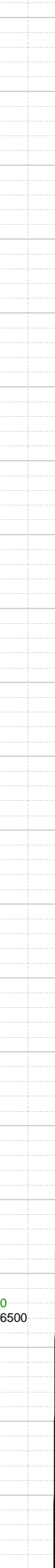
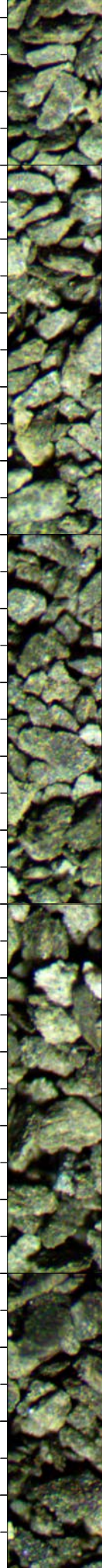
-5010 WT 9.6,
VIS 33

-5050 SHLY SLTST: med-
dk gy, frm, blkly-sb blkly, 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-sbbkly, sl
calc; NSFOC

0 100 200 0 50 100 0 50 100
6500 3250 0 500 1000 0 400 800



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-5230
-5240



-5094 INC 4.89,
AZM 320.77,
TVD 5068.45

-5110 WT 9.6,
VIS 33

-5188 INC 4.24,
AZM 320.78,
TVD 5162.15

-5200 WT 9.6,
VIS 33

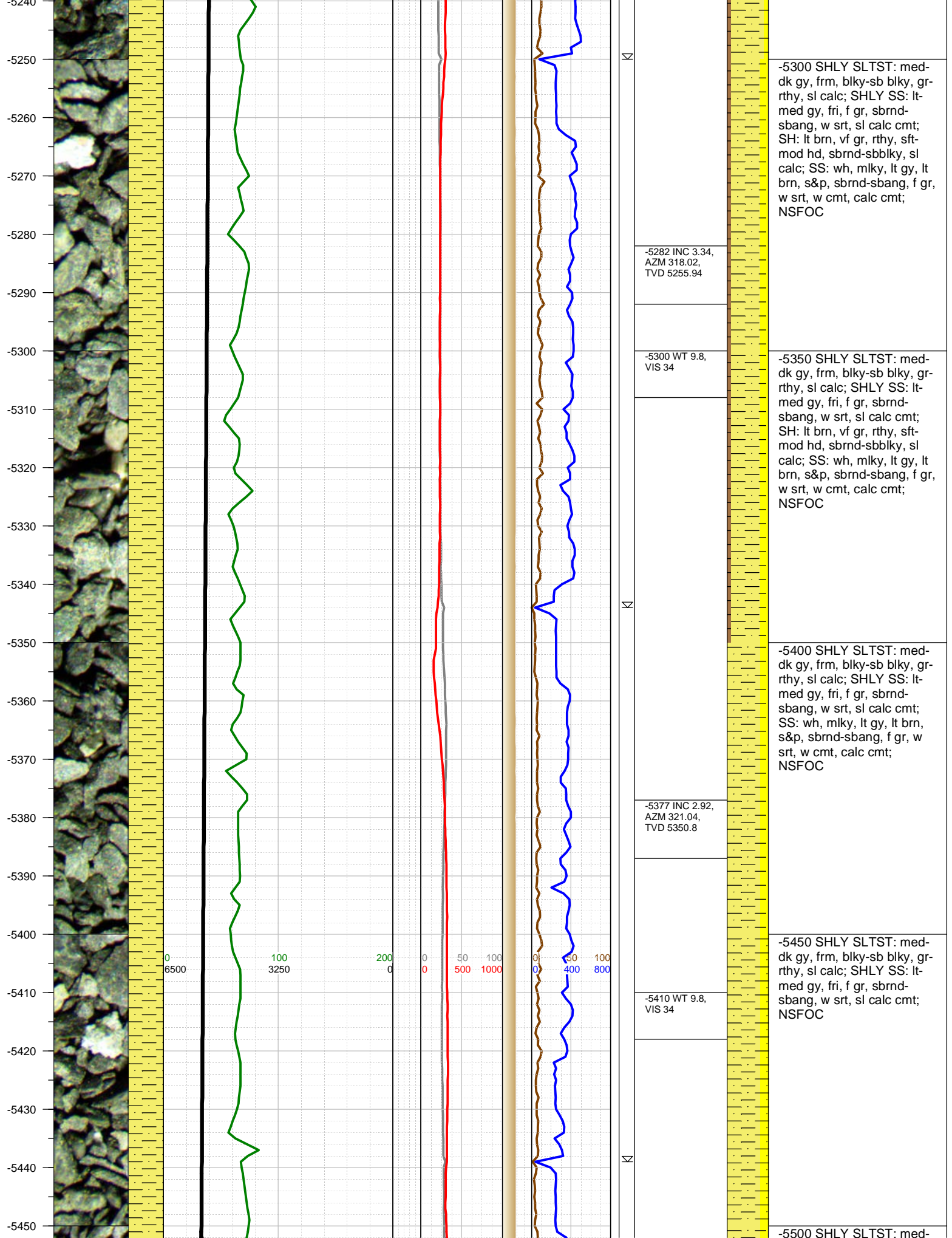
-5100 SHLY SLTST: med-
dk gy, frm, blk-sb blk, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbbkly, sl
calc; NSFOC

-5150 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;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbbkly, sl
calc; SS: wh, mlky, lt gy, lt
brn, s&p, sbrnd-sbang, f gr,
w srt, w cmt, calc cmt;
NSFOC

-5200 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;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbbkly, sl
calc; NSFOC

-5250 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;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbbkly, sl
calc; NSFOC

0 100 200 0 50 100 0 50 100
6500 3250 0 500 1000 0 400 800



-5300 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; SS: wh, mlky, lt gy, lt
brn, s&p, sbrnd-sbang, f gr,
w srt, w cmt, calc cmt;
NSFOC

-5282 INC 3.34,
AZM 318.02,
TVD 5255.94

-5300 WT 9.8,
VIS 34

-5350 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; SS: wh, mlky, lt gy, lt
brn, s&p, sbrnd-sbang, f gr,
w srt, w cmt, calc cmt;
NSFOC

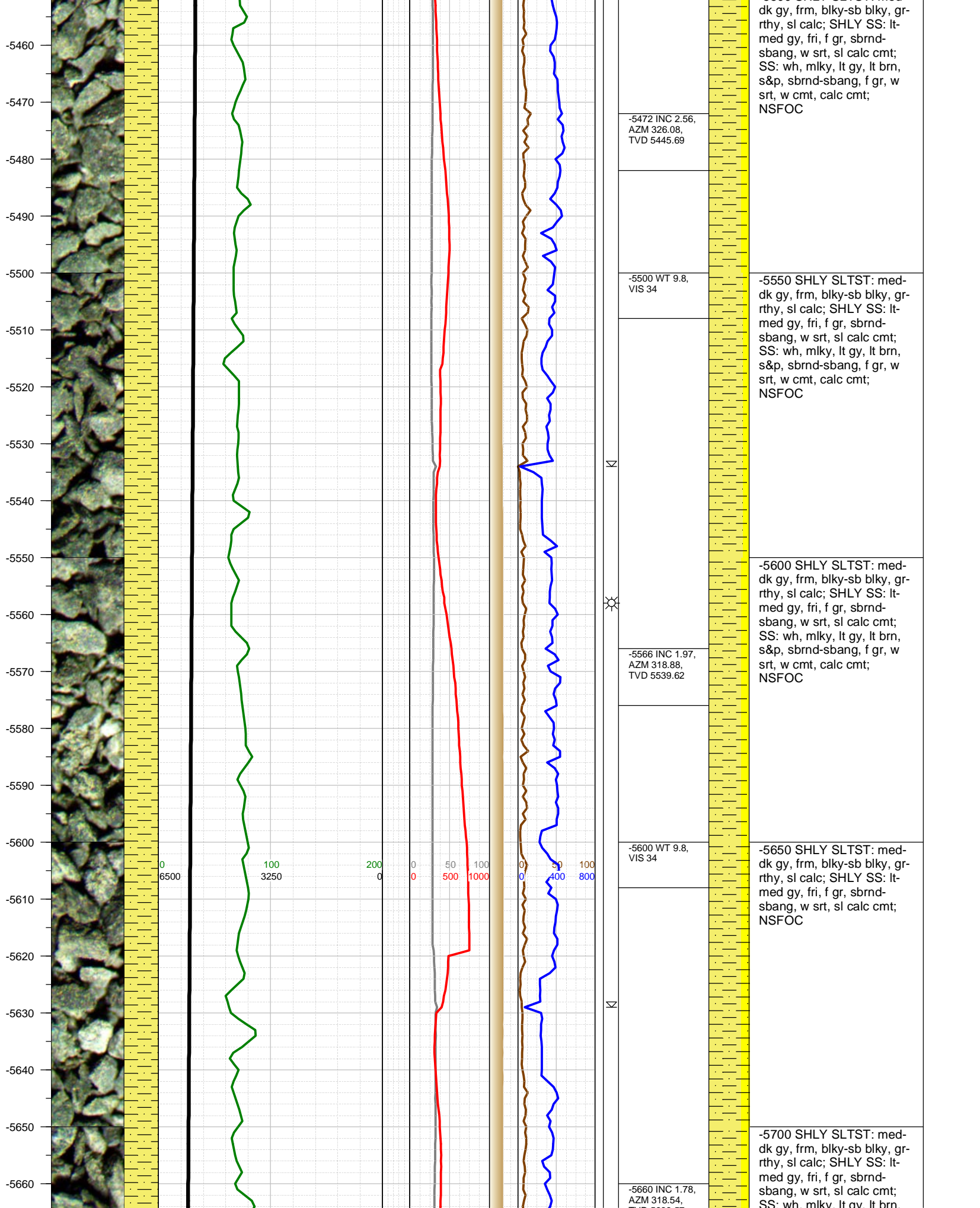
-5400 SHLY SLTST: med-
dk gy, frm, blk-y-sb blk-y, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SS: wh, mlky, lt gy, lt brn,
s&p, sbrnd-sbang, f gr, w
srt, w cmt, calc cmt;
NSFOC

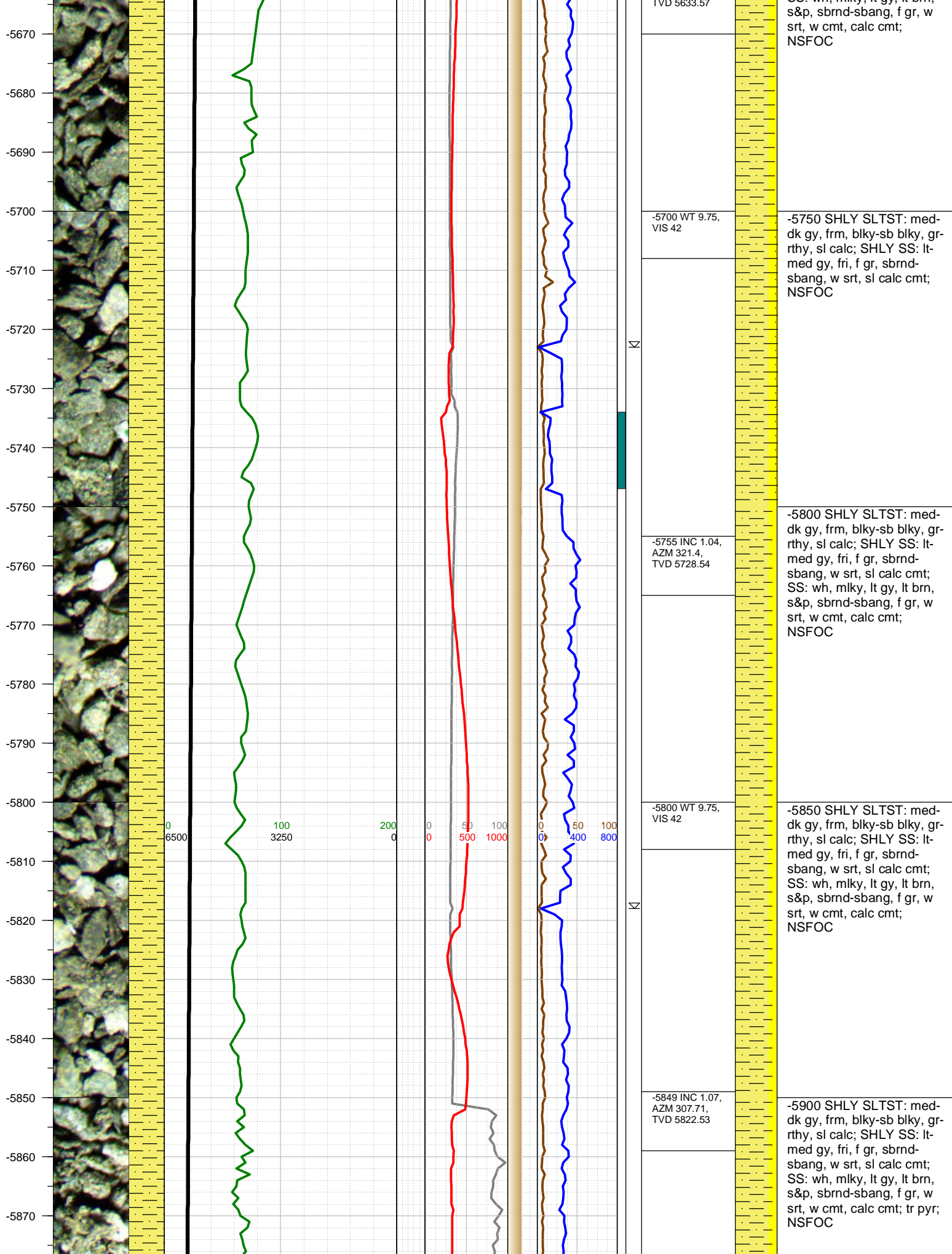
-5377 INC 2.92,
AZM 321.04,
TVD 5350.8

-5410 WT 9.8,
VIS 34

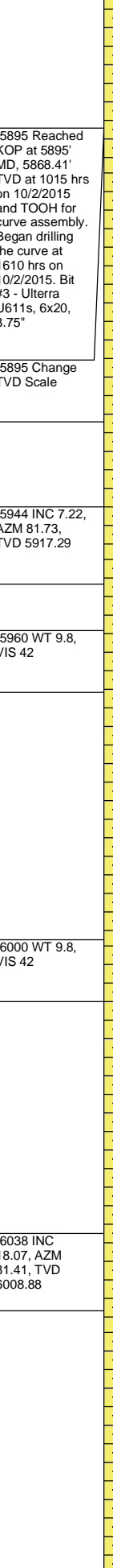
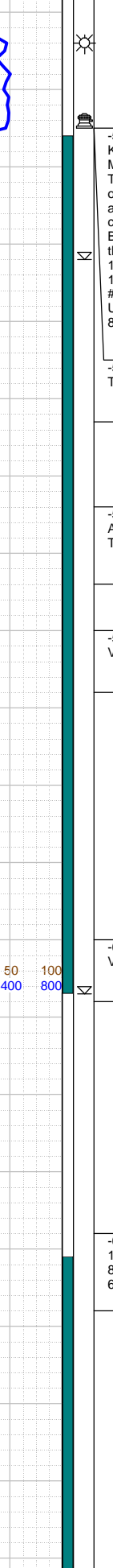
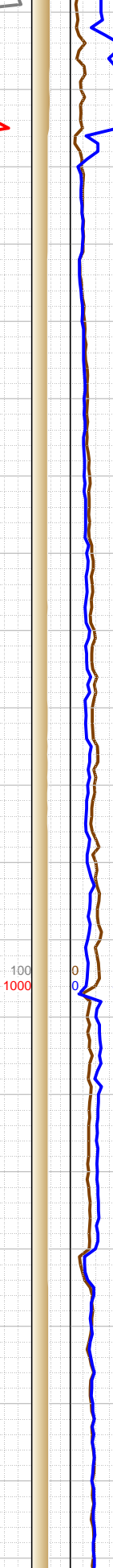
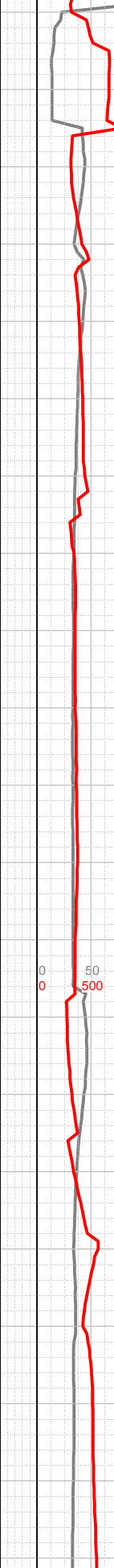
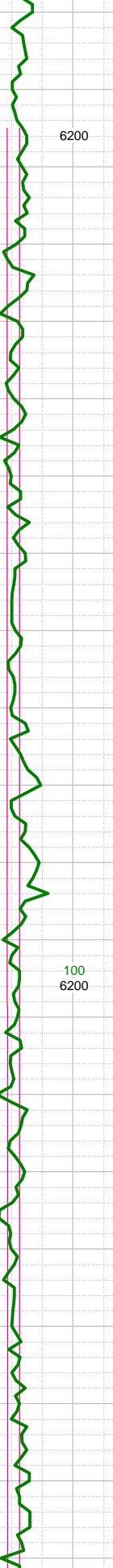
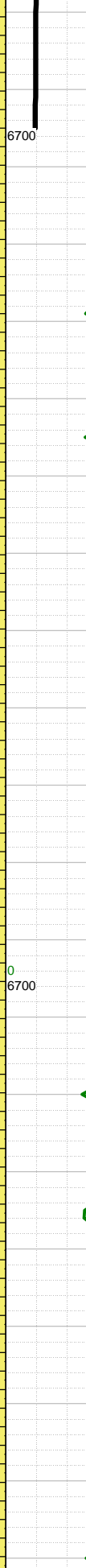
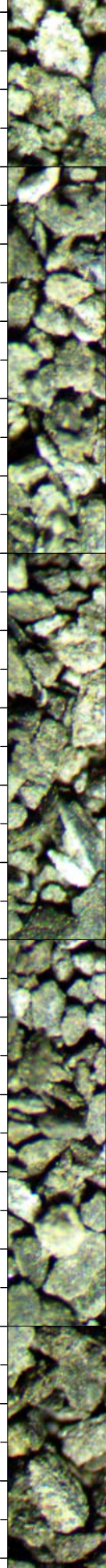
-5450 SHLY SLTST: med-
dk gy, frm, blk-y-sb blk-y, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
NSFOC

-5500 SHLY SLTST: med-





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-5895 Reached KOP at 5895' MD, 5868.41' TVD at 1015 hrs on 10/2/2015 and TOOH for curve assembly. Began drilling the curve at 1610 hrs on 10/2/2015. Bit #3 - Ultrerra U611s, 6x20, 8.75"

-5895 Change TVD Scale

-5944 INC 7.22, AZM 81.73, TVD 5917.29

-5960 WT 9.8, VIS 42

-6000 WT 9.8, VIS 42

-6038 INC 18.07, AZM 81.41, TVD 6008.88

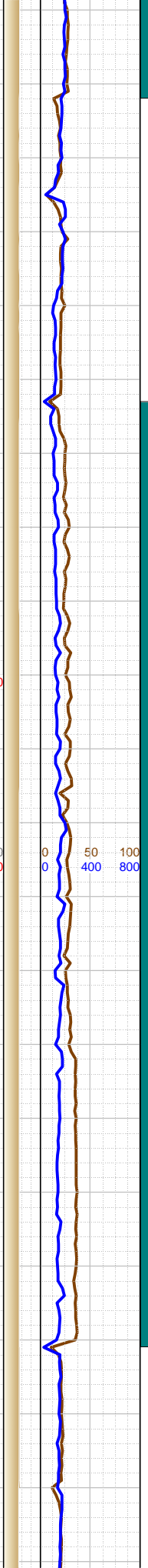
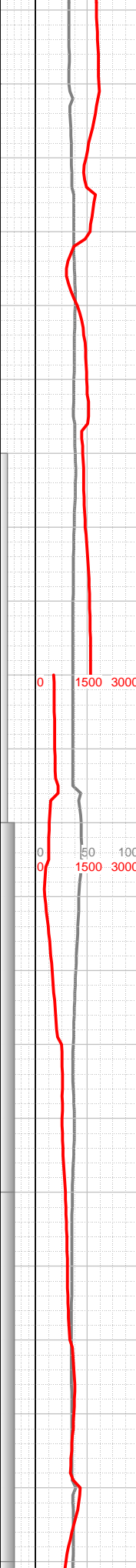
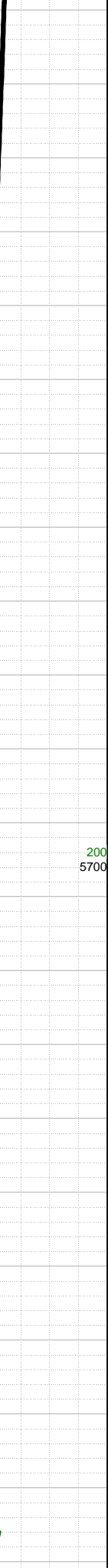
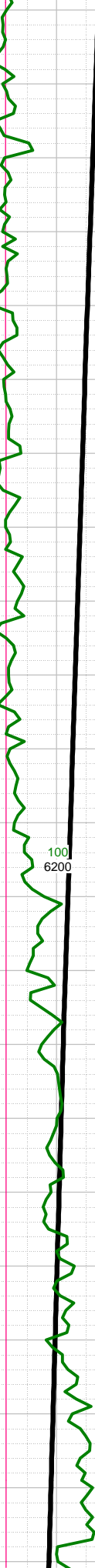
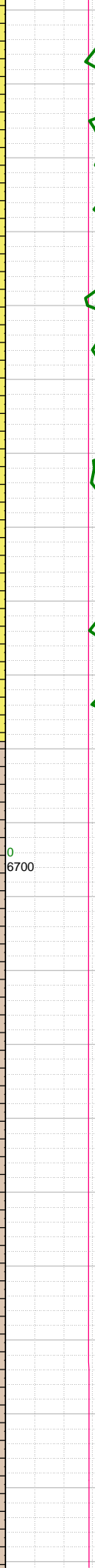
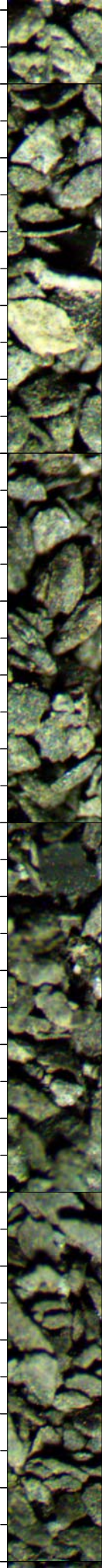
-5950 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; NSFOC

-6000 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; NSFOC

-6050 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; NSFOC

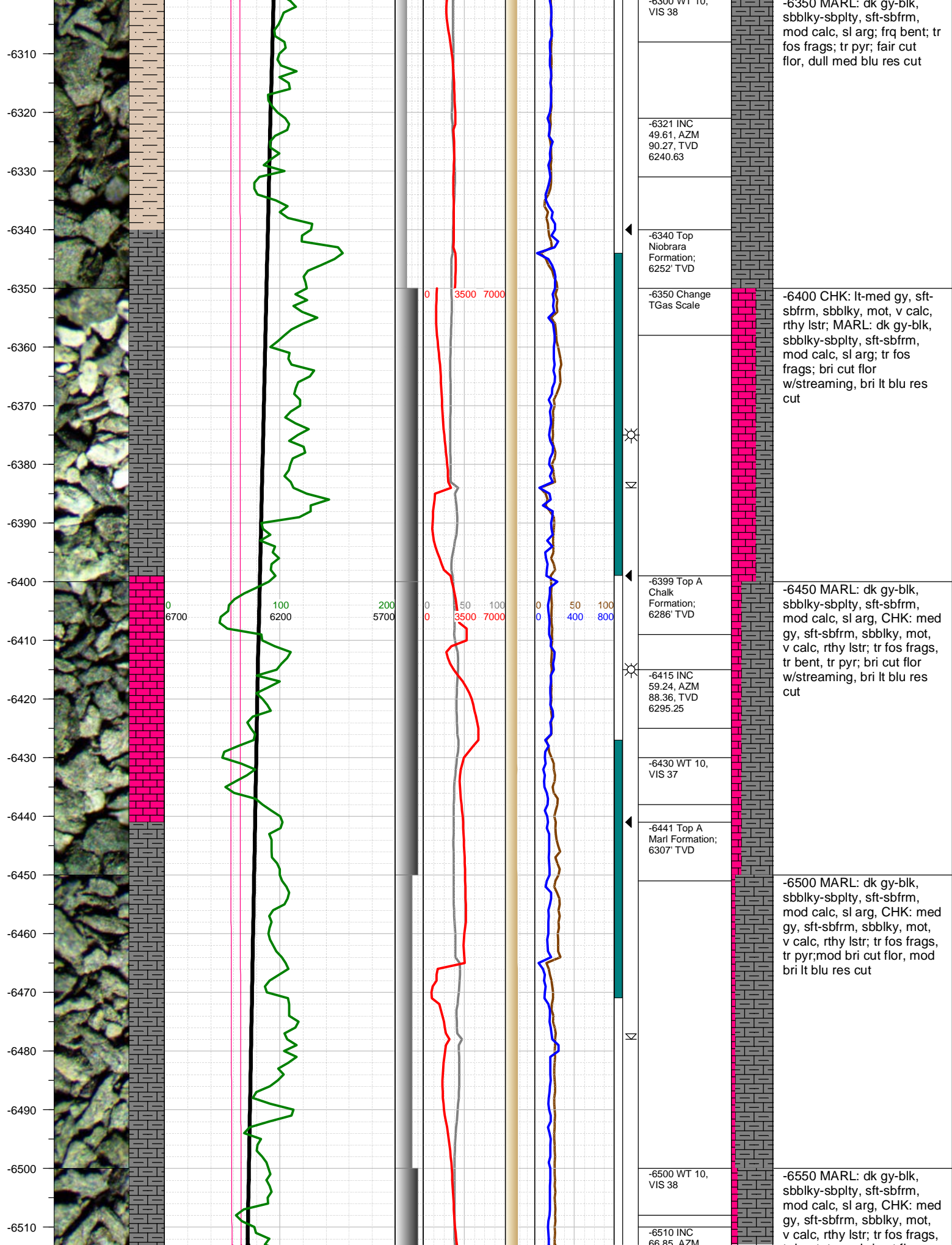
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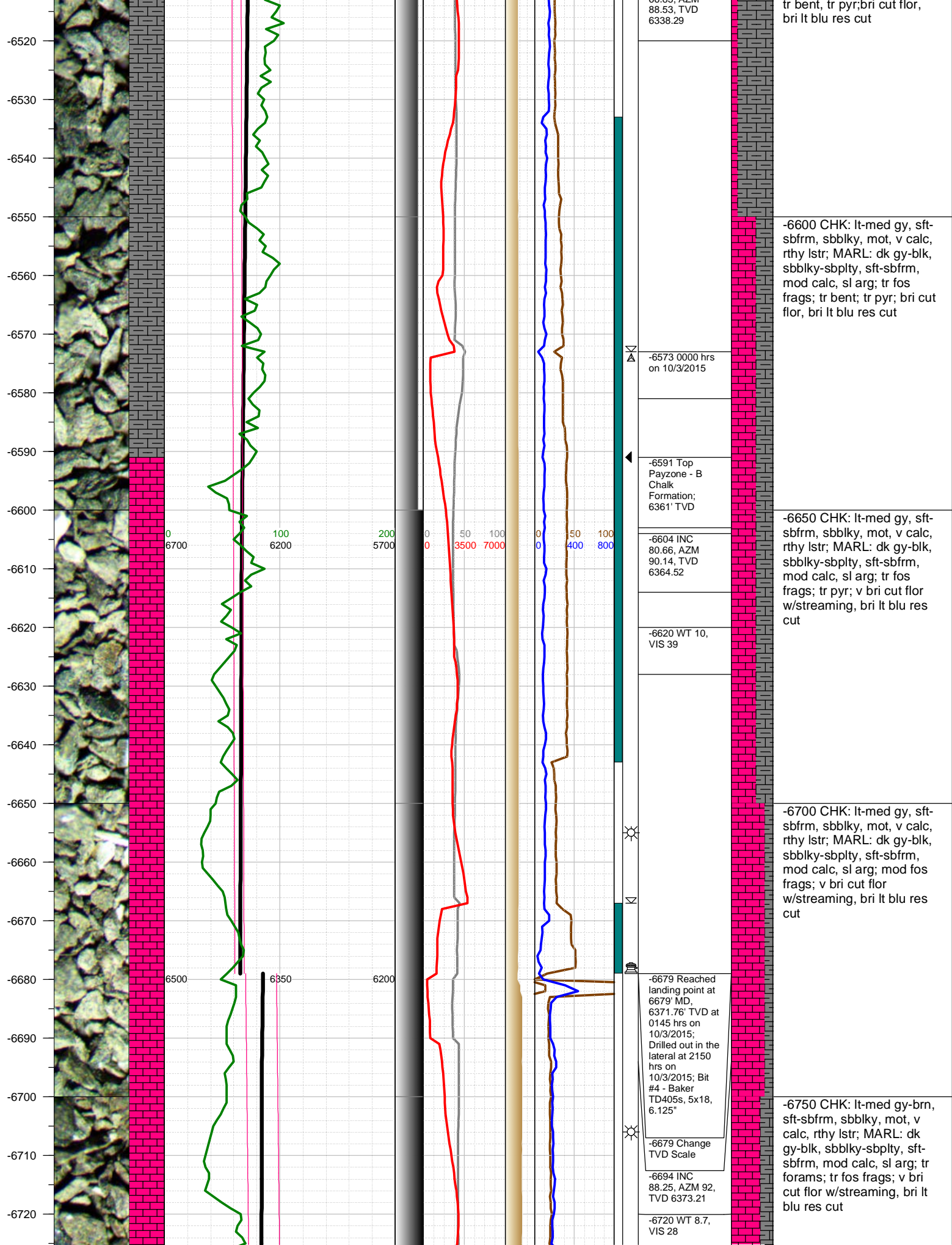
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-6300



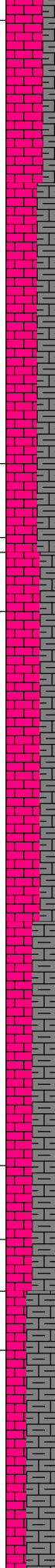
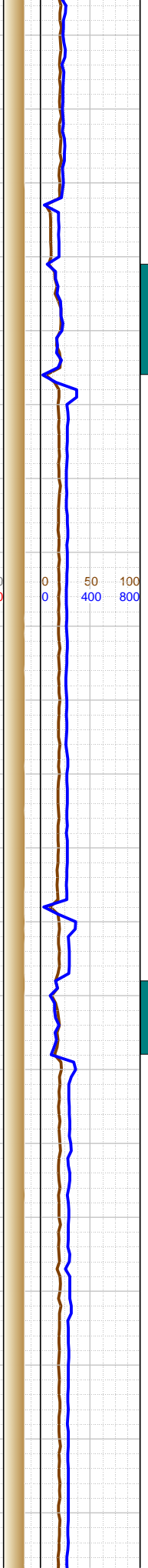
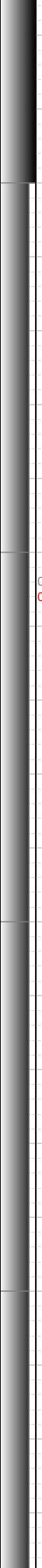
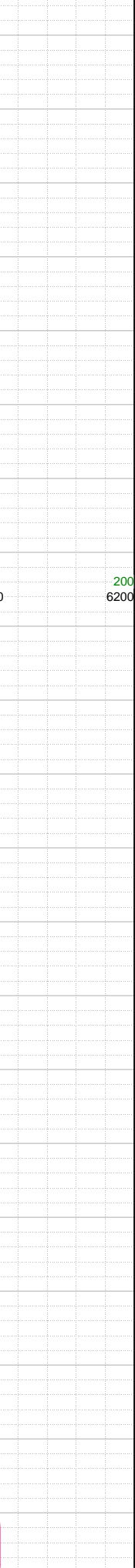
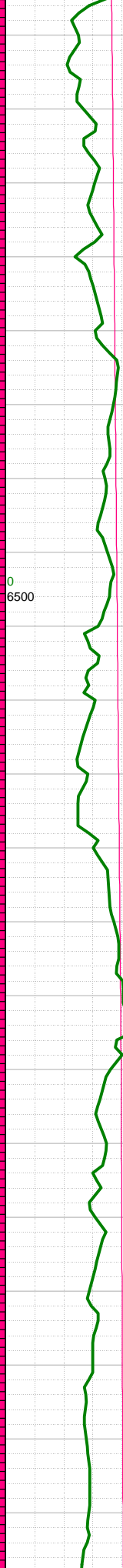
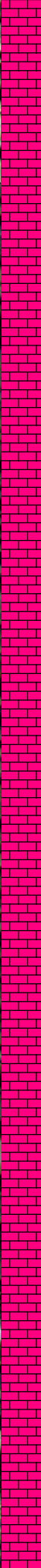
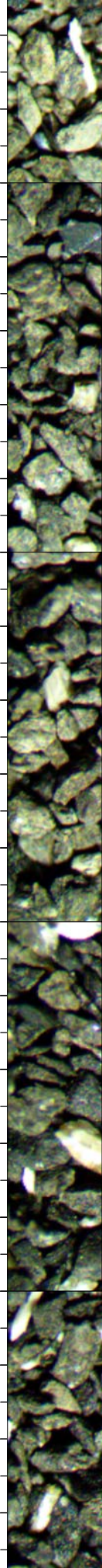
-6100 WT 10, VIS 38
-6132 INC 25.44, AZM 85.72, TVD 6096.13
-6180 Change TGas Scale
-6189 Top Sharon Springs Formation; 6143' TVD
-6200 WT 10, VIS 38
-6227 INC 41.75, AZM 88.81, TVD 6175
-6300 WT 10

-6150 SHLY SLTST: med-dk gy, frm, blkysb blkys, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; NSFOC
-6200 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; SHLY SLTST: med gy, frm, blkysb blkys, gr-rthy, sl calc; fnt cut flor
-6250 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; fair cut flor, pale med blu res cut
-6300 SLTY SH: med-dk gy, sbfrm-frm, sbplty-plty, lam, fis, arg, sl calc; tr bent; fair cut flor, dull med blu res cut





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-6880
-6890
-6900
-6910
-6920
-6930



-6800 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; tr fos frags; tr bent; bri cut flor, bri lt blu res cut

-6788 INC
89.73, AZM
91.51, TVD
6374.86

-6800 WT 8.7,
VIS 28

-6850 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; tr fos frags; tr bent; tr pyr; bri cut flor, bri lt blu res cut

-6900 MARL: dk gy-blk, sbbly-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; frq forams; frq fos frags; bri cut flor, bri lt blu res cut

-6883 INC 90.6,
AZM 90.38,
TVD 6374.59

-6900 WT 8.7,
VIS 28

-6950 MARL: dk gy-blk, sbbly-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; frq forams; frq fos frags; bri cut flor, bri lt blu res cut

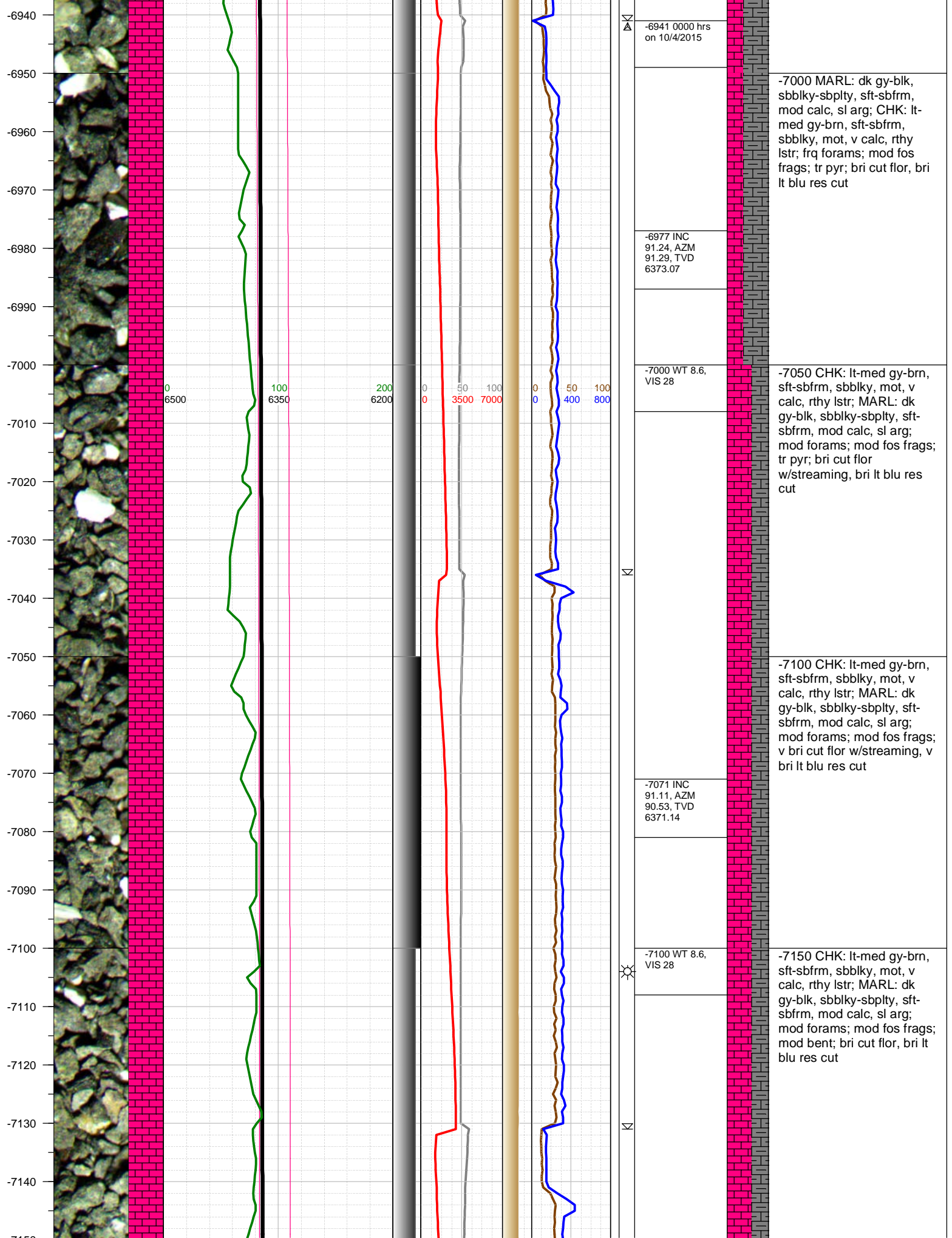
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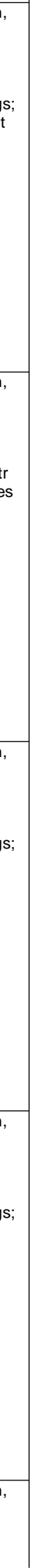
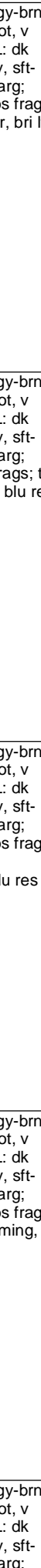
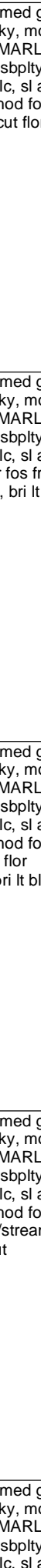
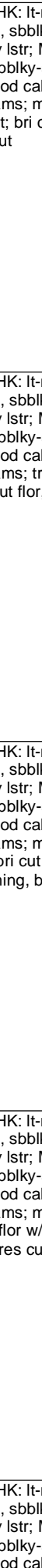
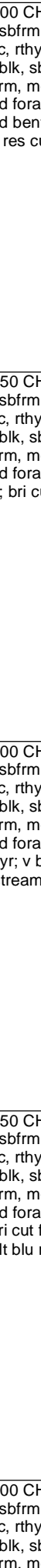
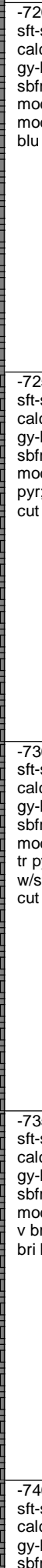
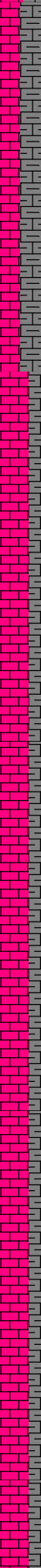
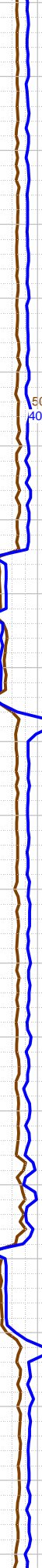
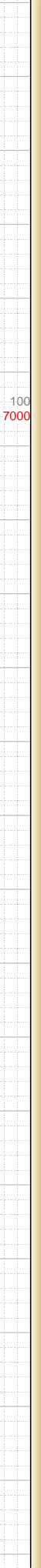
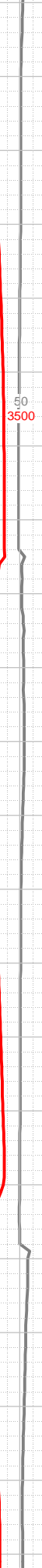
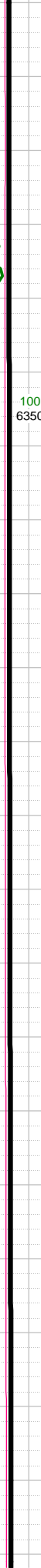
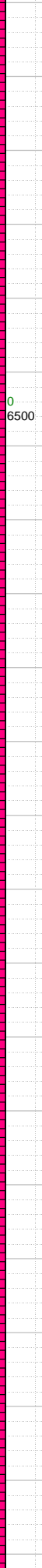
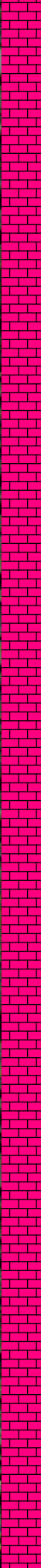
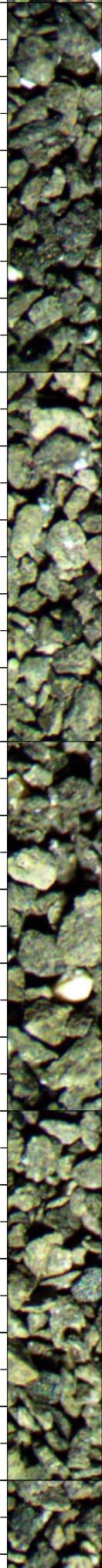
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-7165 INC 89.8,
AZM 89.5, TVD
6370.4

-7200 WT 8.6,
VIS 28

-7260 INC
91.24, AZM
89.12, TVD
6369.53

-7300 WT 8.6,
VIS 28

-7354 INC 90.4,
AZM 87.48,
TVD 6368.18

-7200 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; mod fos frags;
mod bent; bri cut flor, bri lt
blu res cut

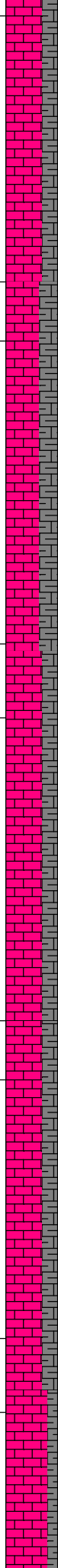
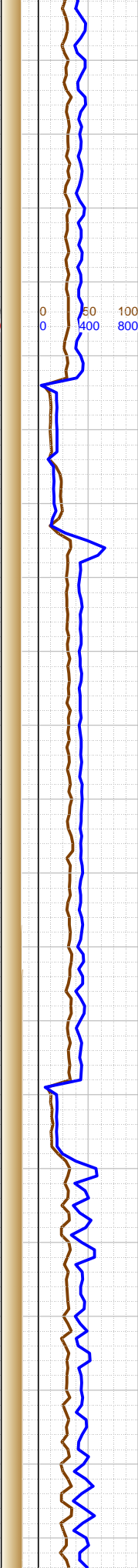
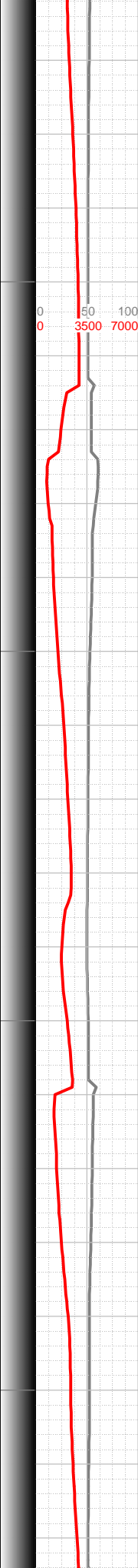
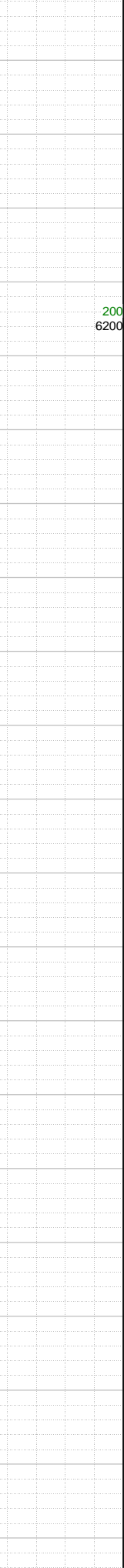
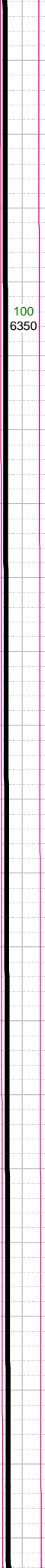
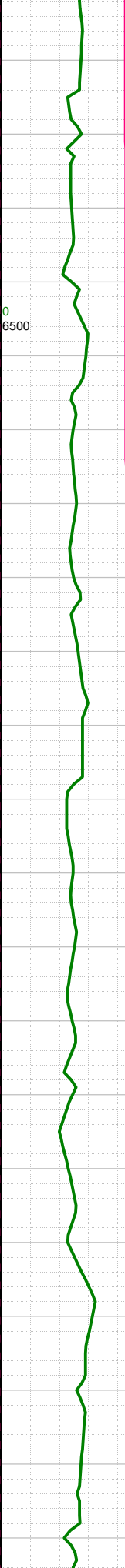
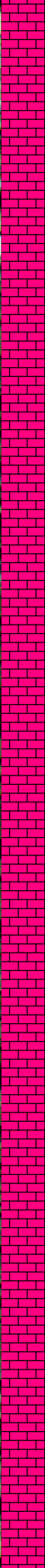
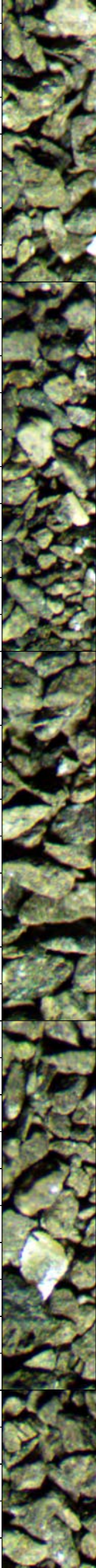
-7250 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; tr fos frags; tr
pyr; bri cut flor, bri lt blu res
cut

-7300 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; mod fos frags;
tr pyr; v bri cut flor
w/streaming, bri lt blu res
cut

-7350 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; mod fos frags;
v bri cut flor w/streaming,
bri lt blu res cut

-7400 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;

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

-7400 WT 8.6,
VIS 28

-7450 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; mod fos frags;
v bri cut flor w/streaming, v
bri lt blu res cut

-7449 INC
91.14, AZM
86.99, TVD
6366.9

-7500 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; mod fos frags;
v bri cut flor w/streaming, v
bri lt blu res cut

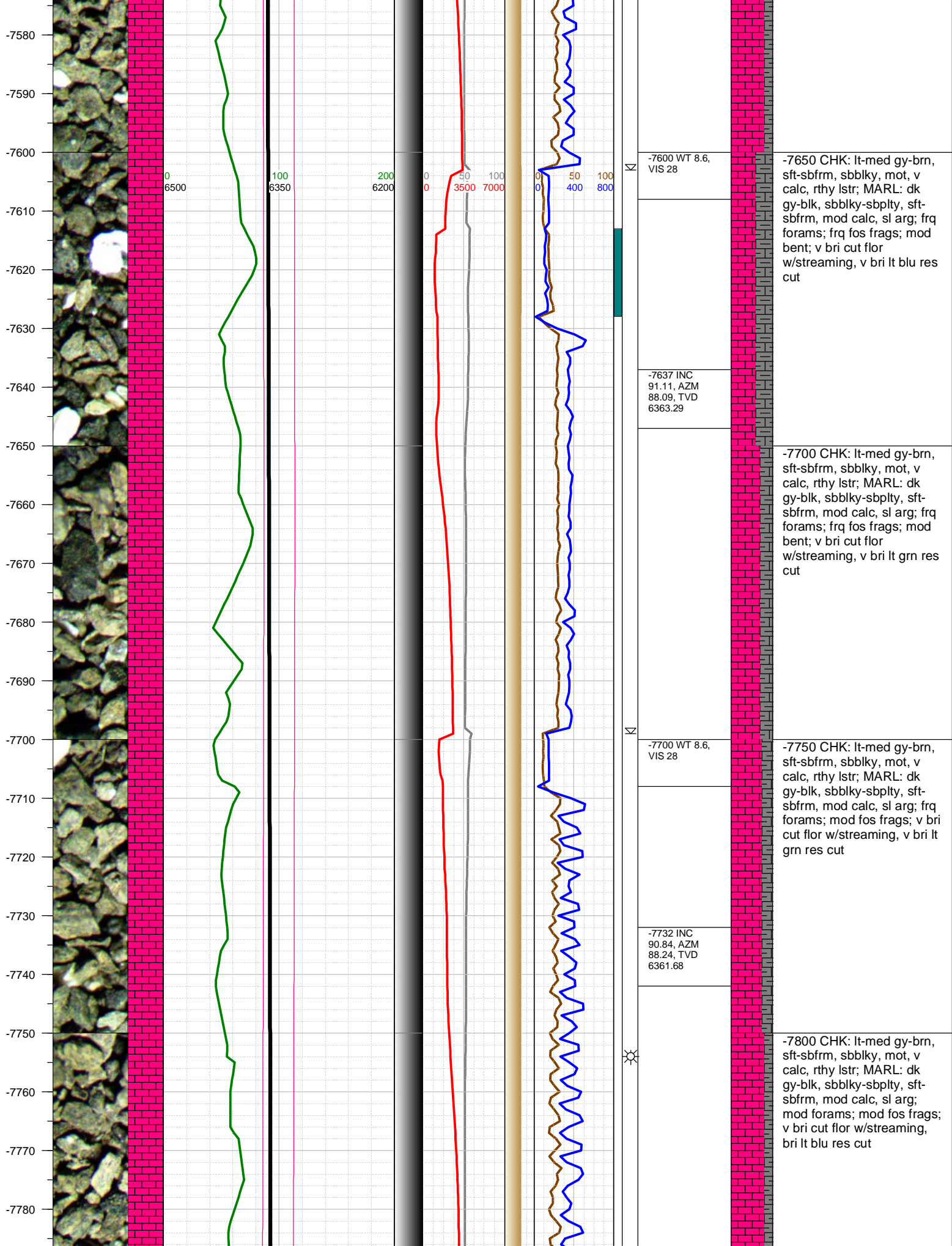
-7500 WT 8.6,
VIS 28

-7510 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; tr fos frags; v
bri cut flor w/streaming, v
bri lt blu res cut

-7543 INC
91.07, AZM
86.15, TVD
6365.08

-7600 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; tr fos frags; v
bri cut flor w/streaming, v
bri lt blu res cut





-7600 WT 8.6,
VIS 28

-7650 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frags; mod bent; v bri cut flor w/streaming, v bri lt blu res cut

-7637 INC
91.11, AZM
88.09, TVD
6363.29

-7700 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frags; mod bent; v bri cut flor w/streaming, v bri lt grn res cut

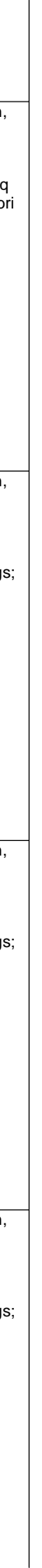
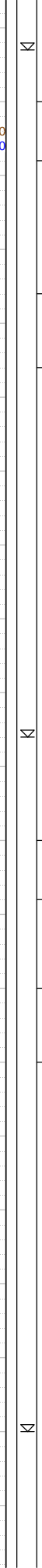
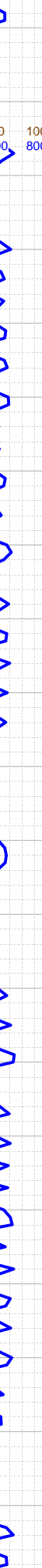
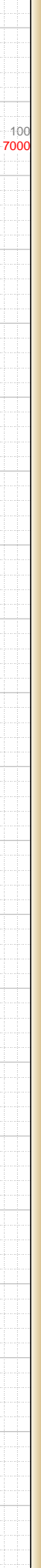
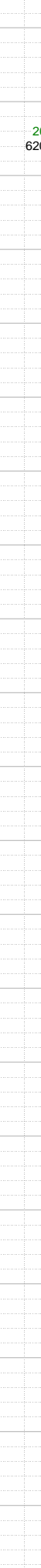
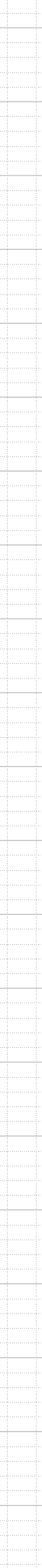
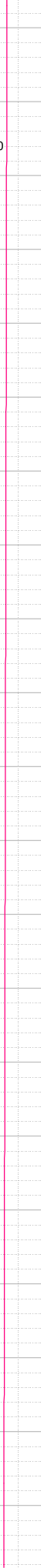
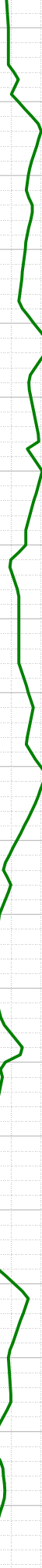
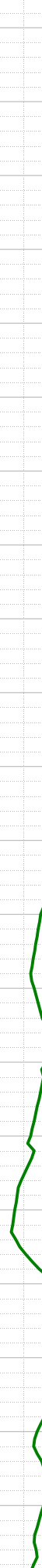
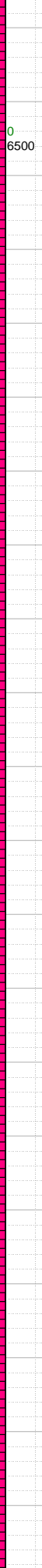
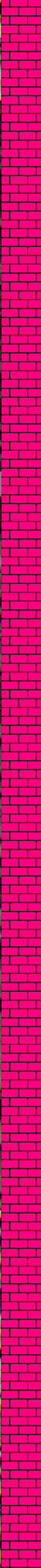
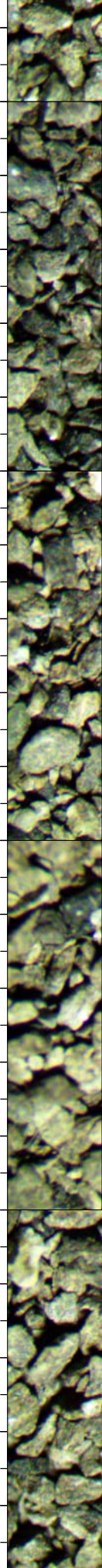
-7700 WT 8.6,
VIS 28

-7750 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; v bri cut flor w/streaming, v bri lt grn res cut

-7732 INC
90.84, AZM
88.24, TVD
6361.68

-7800 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; mod fos frags; v bri cut flor w/streaming, bri lt blu res cut

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-7800 WT 8.6, VIS 28

-7826 INC 90.6, AZM 87.63, TVD 6360.49

-7900 WT 8.6, VIS 28

-7920 INC 90.57, AZM 87.03, TVD 6359.53

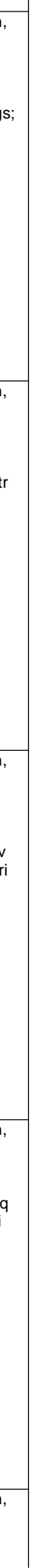
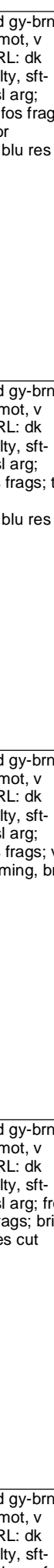
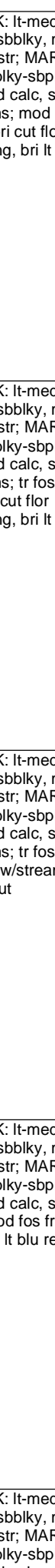
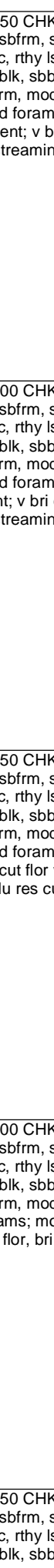
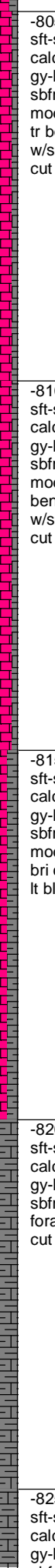
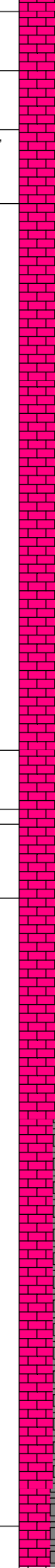
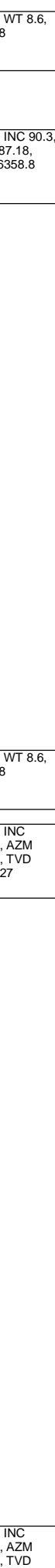
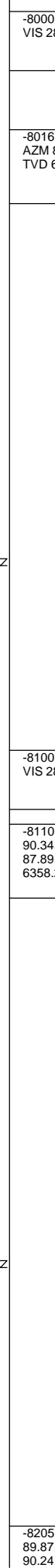
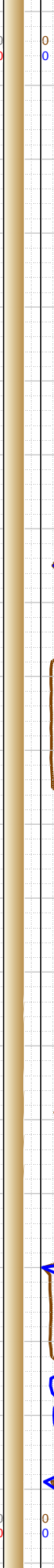
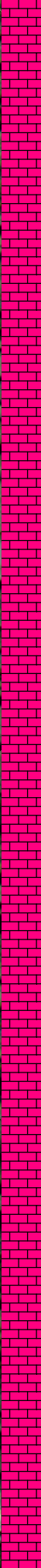
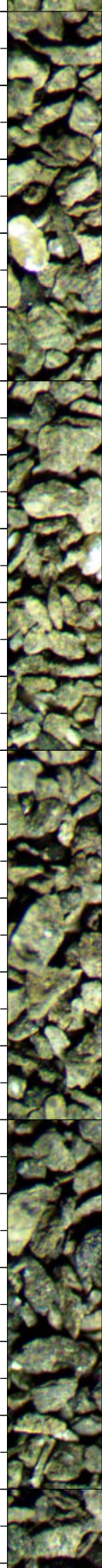
-7850 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; v bri cut flr w/streaming, bri lt blu res cut

-7900 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; mod fos frags; tr bent; v bri cut flr w/streaming, bri lt blu res cut

-7950 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; mod fos frags; v bri cut flr w/streaming, bri lt blu res cut

-8000 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; mod fos frags; tr bent; v bri cut flr w/streaming, bri lt blu res cut

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-8000 WT 8.6, VIS 28

-8016 INC 90.3, AZM 87.18, TVD 6358.8

-8100 WT 8.6, VIS 28

-8110 INC 90.34, AZM 87.89, TVD 6358.27

-8205 INC 89.87, AZM 90.24, TVD

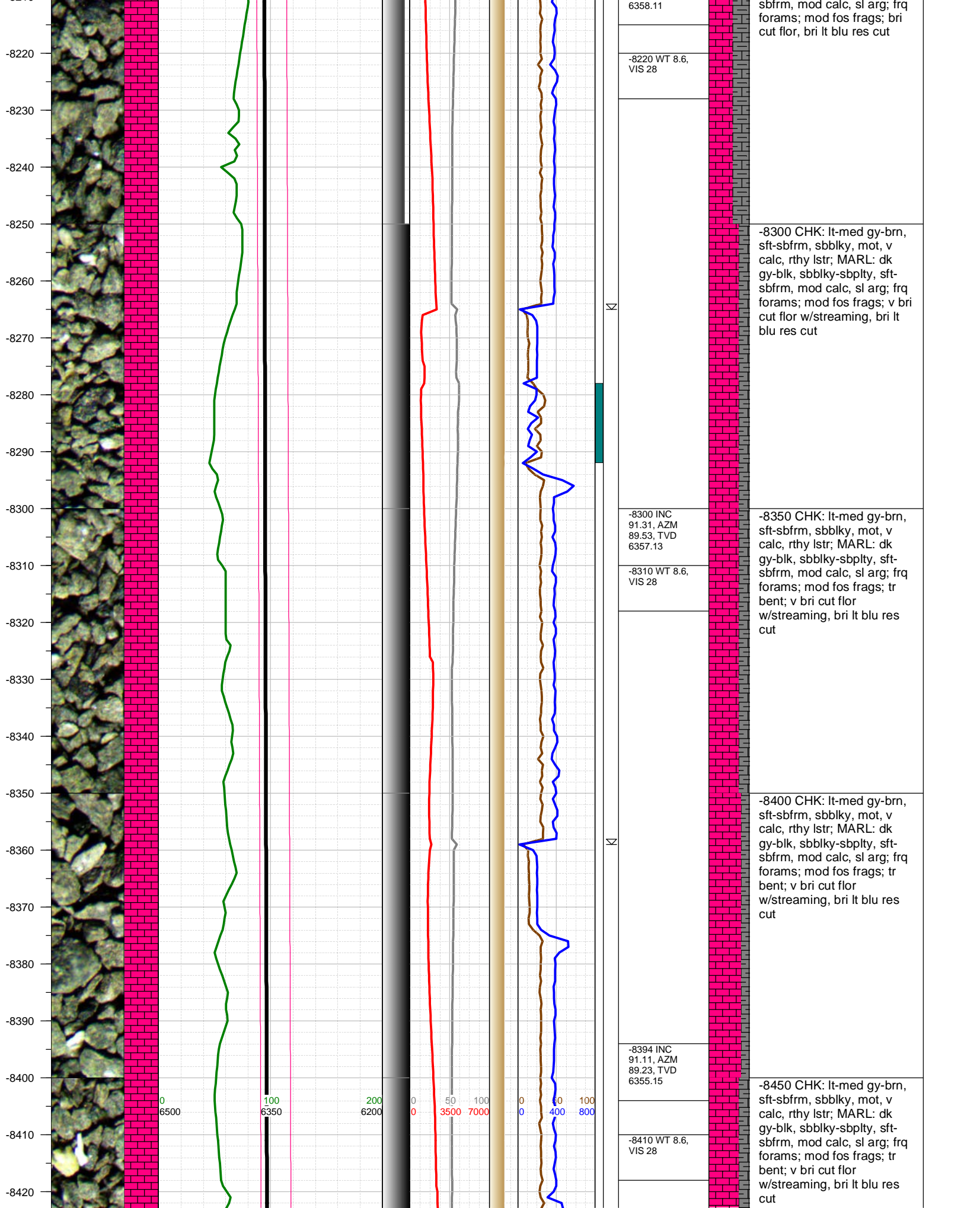
-8050 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; mod fos frags; tr bent; v bri cut flr w/streaming, bri lt blu res cut

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

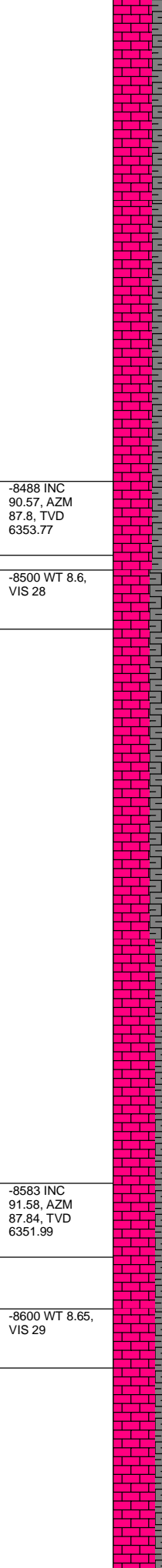
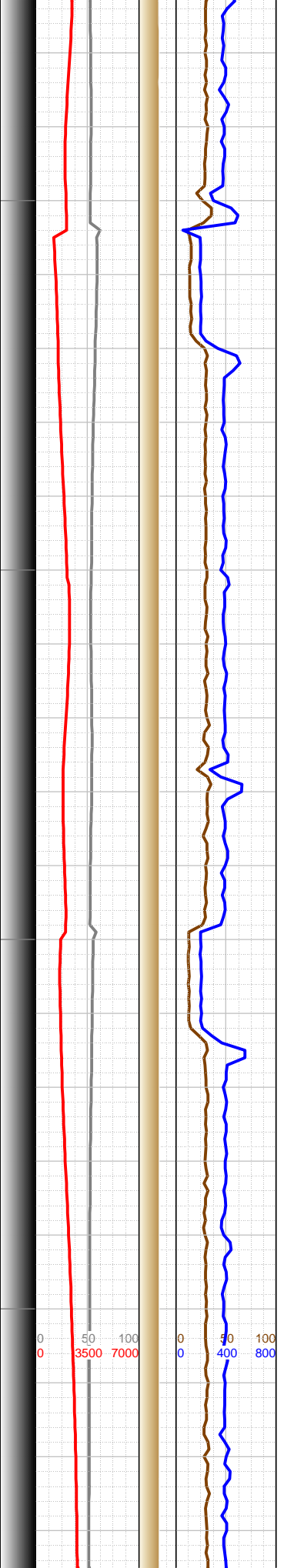
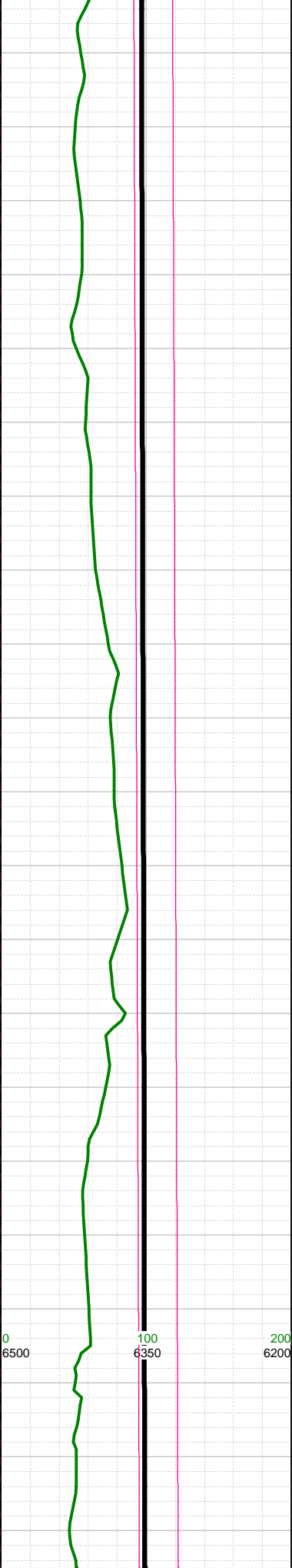
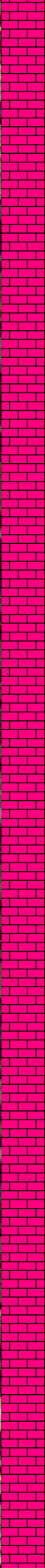
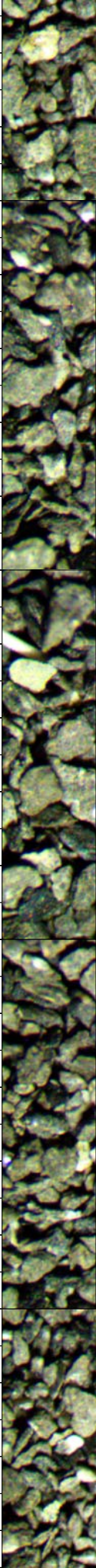
-8150 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; tr fos frags; v bri cut flr w/streaming, bri lt blu res cut

-8200 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; bri cut flr, bri lt blu res cut

-8250 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-



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-8500 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; mod fos frags; tr bent; v bri cut flr w/streaming, bri lt blu res cut

-8488 INC
90.57, AZM
87.8, TVD
6353.77

-8500 WT 8.6,
VIS 28

-8550 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 frags; tr bent sme w/dissm pyr; v bri cut flr w/streaming, bri lt blu res cut

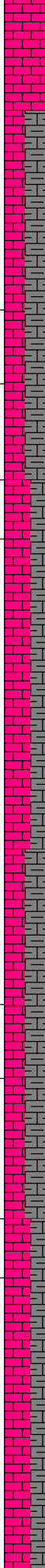
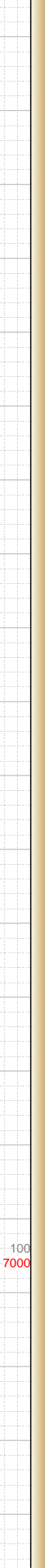
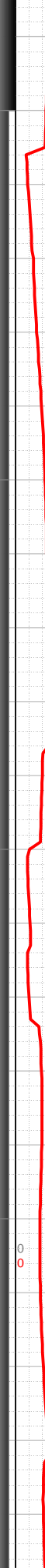
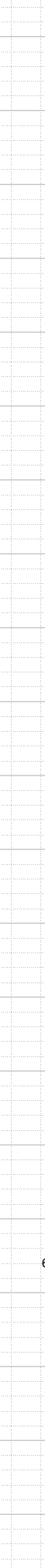
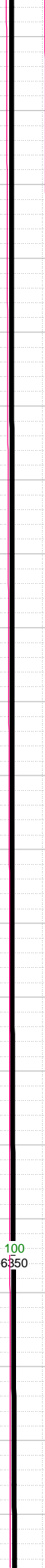
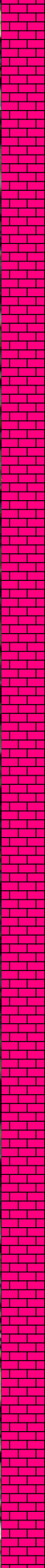
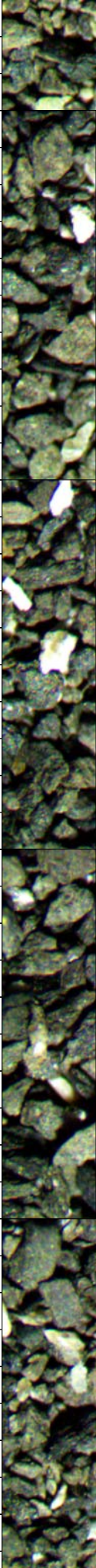
-8600 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; tr bent sme w/dissm pyr; v bri cut flr w/streaming, bri lt blu res cut

-8583 INC
91.58, AZM
87.84, TVD
6351.99

-8600 WT 8.65,
VIS 29

-8650 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; mod fos frags; tr bent sme w/dissm pyr; v bri cut flr w/streaming, bri lt blu res cut

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-8677 INC
89.16, AZM
87.18, TVD
6351.38

-8700 WT 8.65,
VIS 29

-8771 INC
91.44, AZM
89.31, TVD
6350.89

-8800 WT 8.65,
VIS 27

-8700 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; abndt fos frags; bri cut flor, dull lt blu res cut

-8750 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; frq forams; abndt fos frags; bri cut flor, dull lt blu res cut

-8800 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; abndt fos frags; bri cut flor, pale lt blu res cut

-8850 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; frq forams; abndt fos frags; v bri cut flor, dull lt blu res cut

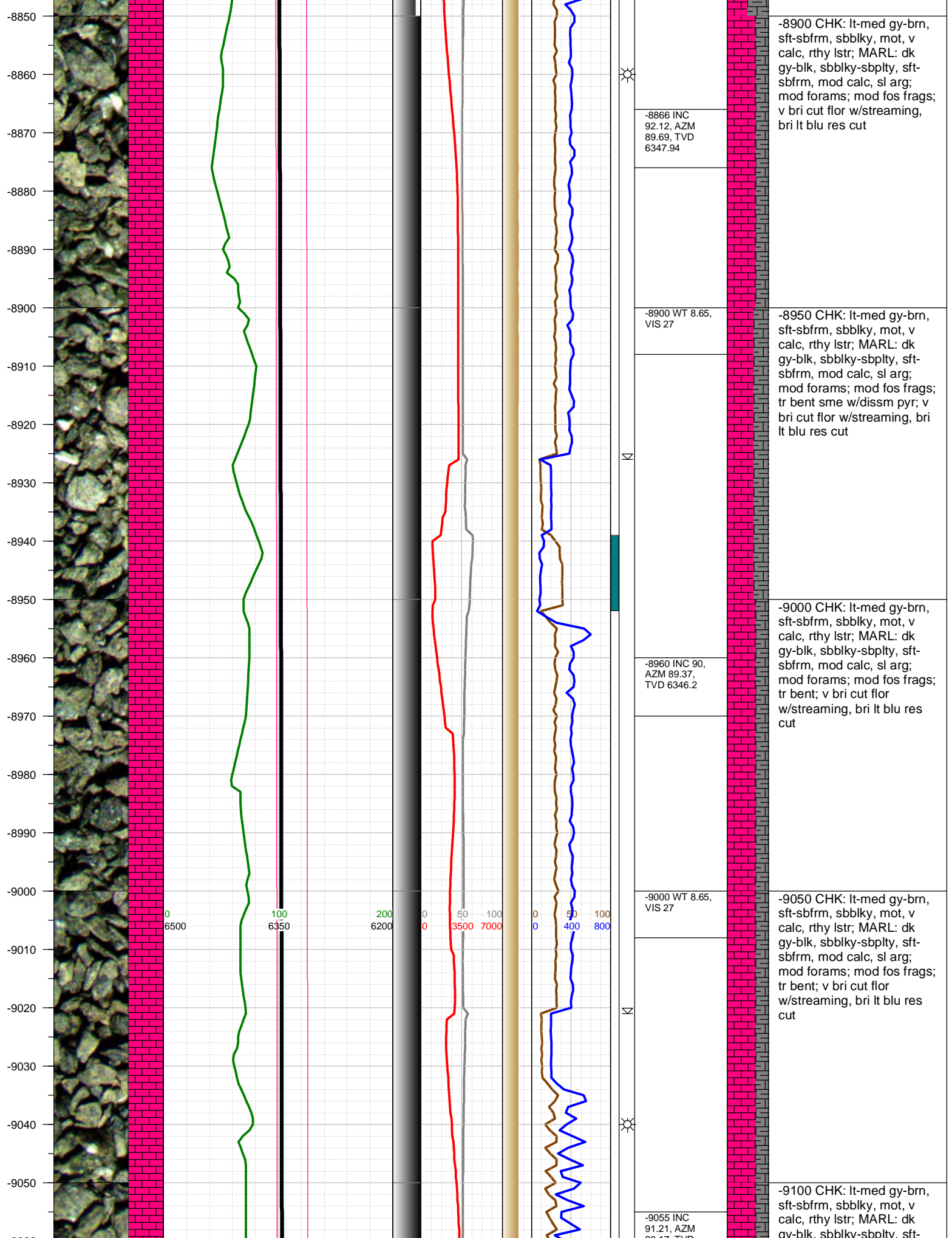
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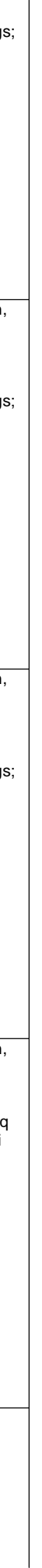
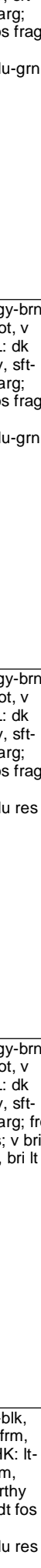
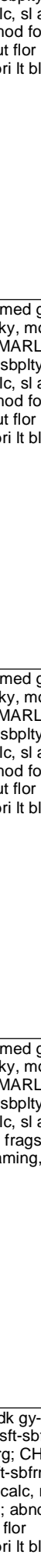
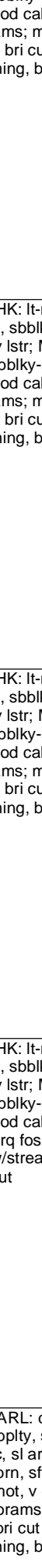
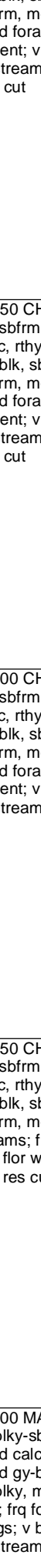
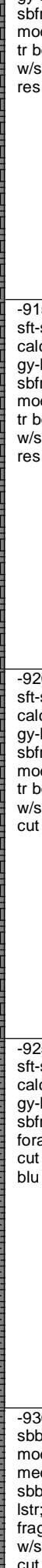
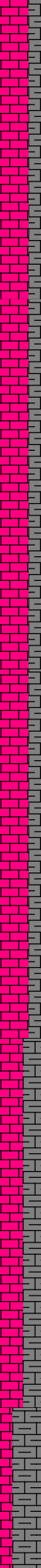
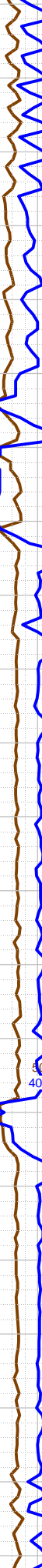
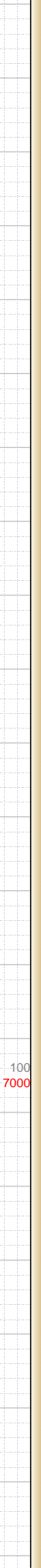
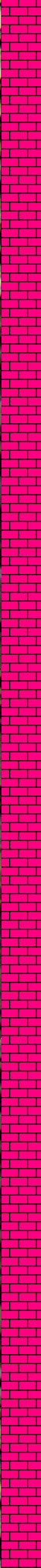
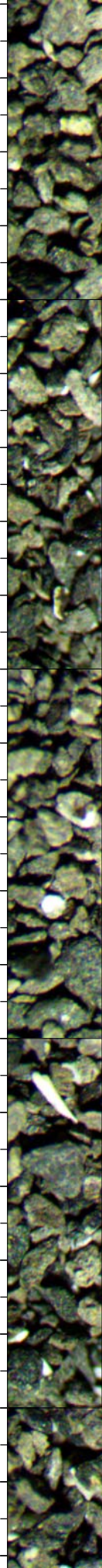
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89.17, TVD
6345.2

-9100 WT 8.7,
VIS 27

-9149 INC
89.63, AZM
88.88, TVD
6344.51

-9200 WT 8.7,
VIS 27

-9244 INC
89.43, AZM
88.15, TVD
6345.29

sbfrfm, mod calc, sl arg;
mod forams; mod fos frags;
tr bent; v bri cut flor
w/streaming, bri lt blu-grn
res cut

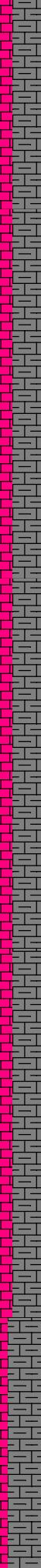
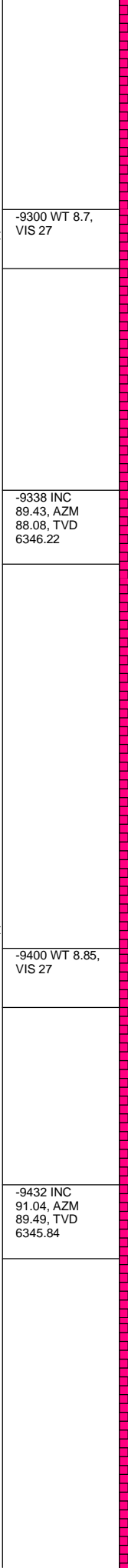
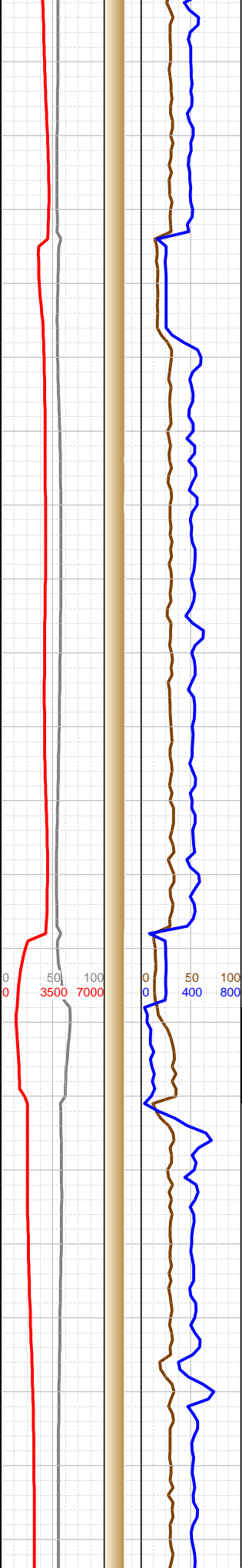
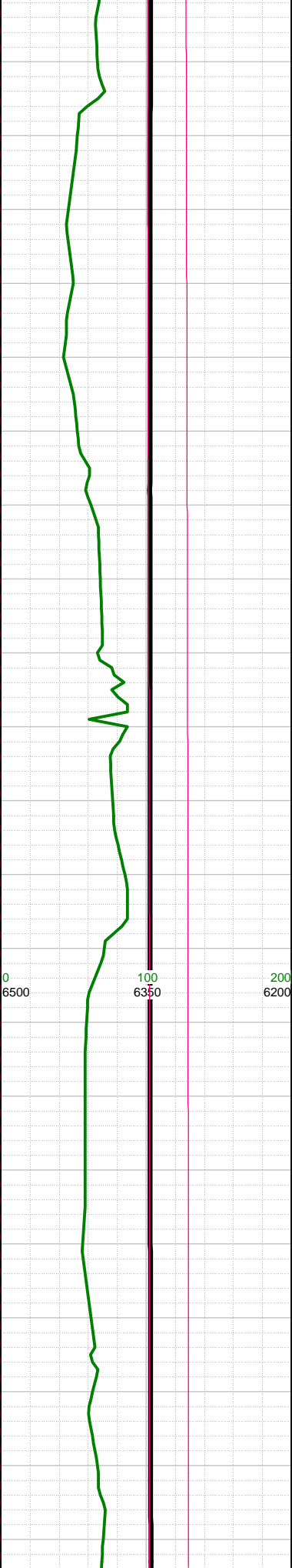
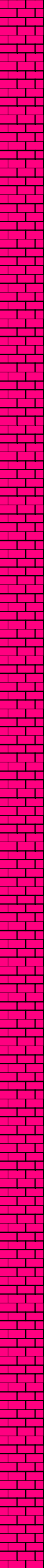
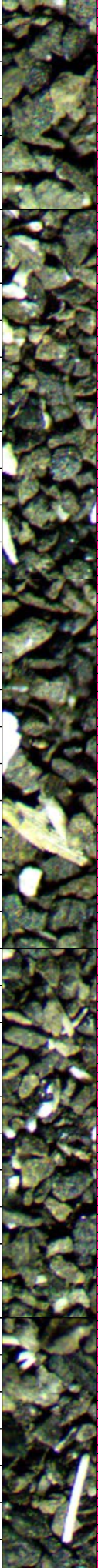
-9150 CHK: lt-med gy-brn,
sft-sbfrfm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrfm, mod calc, sl arg;
mod forams; mod fos frags;
tr bent; v bri cut flor
w/streaming, bri lt blu-grn
res cut

-9200 CHK: lt-med gy-brn,
sft-sbfrfm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrfm, mod calc, sl arg;
mod forams; mod fos frags;
tr bent; v bri cut flor
w/streaming, bri lt blu res
cut

-9250 CHK: lt-med gy-brn,
sft-sbfrfm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrfm, mod calc, sl arg; frq
forams; frq fos frags; v bri
cut flor w/streaming, bri lt
blu res cut

-9300 MARL: dk gy-blk,
sbblky-sbplty, sft-sbfrfm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrfm,
sbblky, mot, v calc, rthy
lstr; frq forams; abndt fos
frags; v bri cut flor
w/streaming, bri lt blu res
cut

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-9300 WT 8.7,
VIS 27

-9338 INC
89.43, AZM
88.08, TVD
6346.22

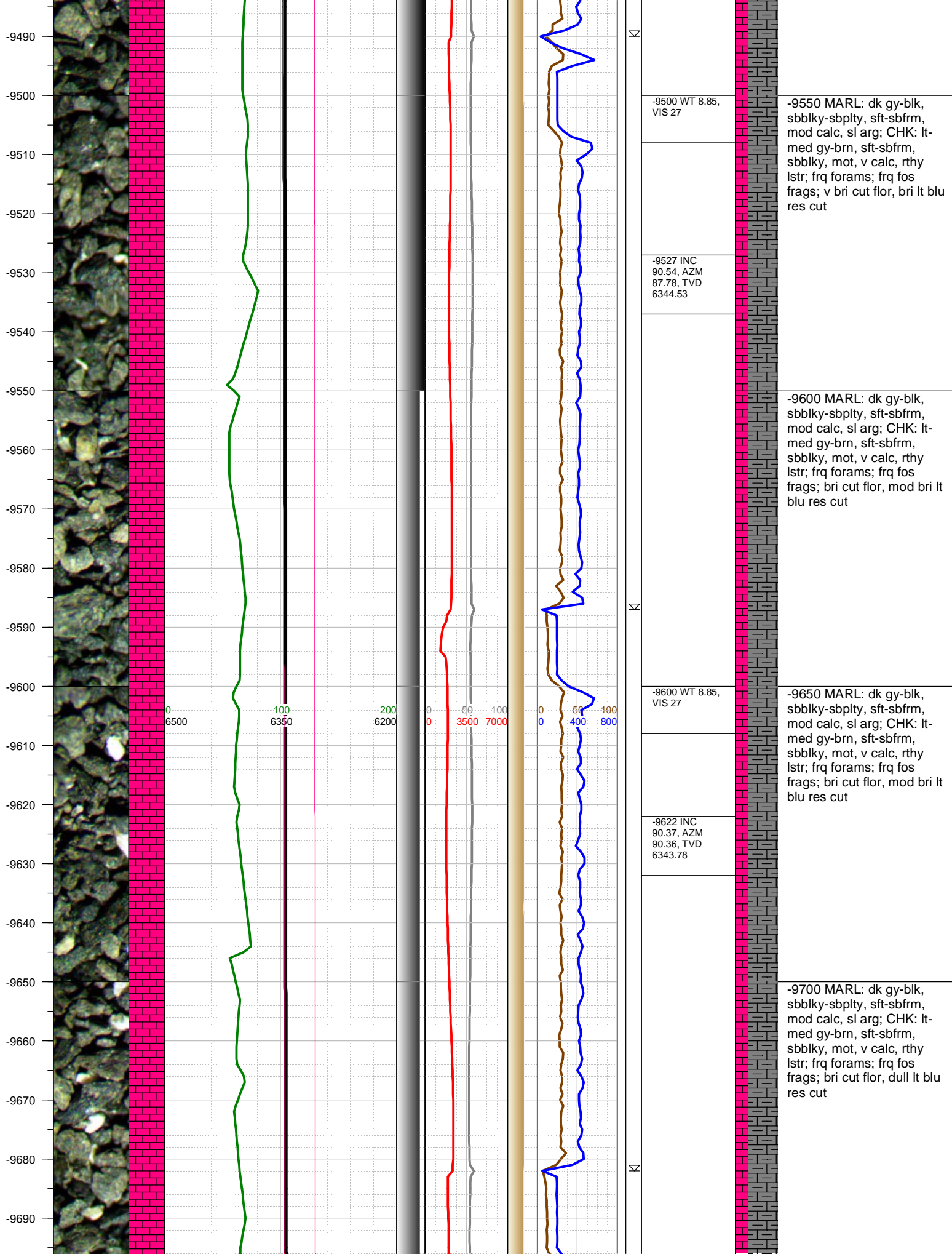
-9400 WT 8.85,
VIS 27

-9432 INC
91.04, AZM
89.49, TVD
6345.84

-9350 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; abndt fos
frags; v bri cut flor
w/streaming, bri lt blu res
cut

-9400 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; abndt fos
frags; v bri cut flor
w/streaming, bri lt blu res
cut

-9450 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; abndt fos
frags; v bri cut flor, bri lt blu
res cut



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-9500 WT 8.85,
VIS 27

-9527 INC
90.54, AZM
87.78, TVD
6344.53

-9600 WT 8.85,
VIS 27

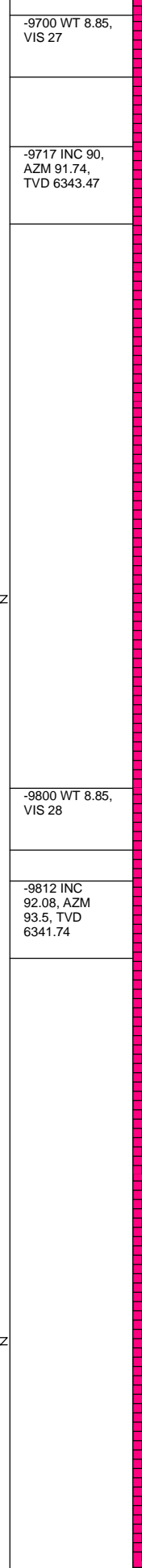
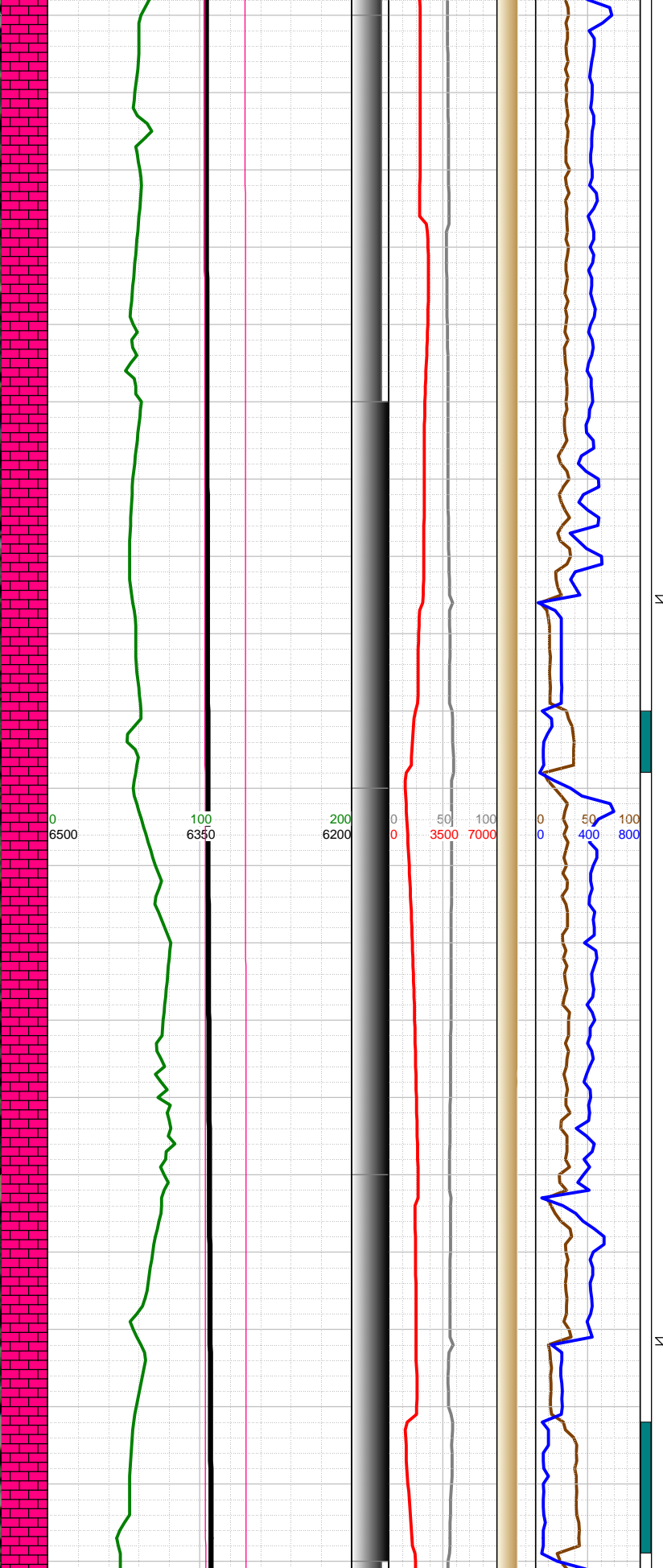
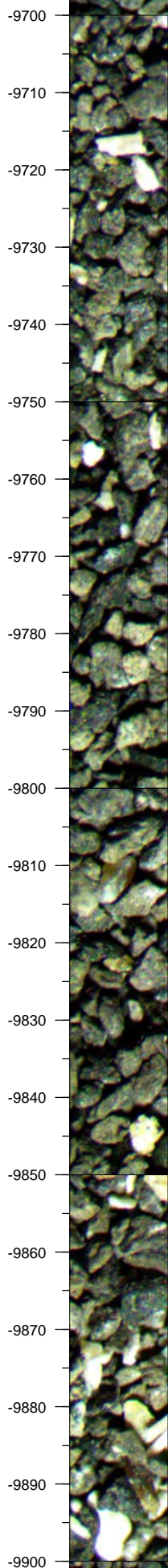
-9622 INC
90.37, AZM
90.36, TVD
6343.78

-9550 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
frags; v bri cut flor, bri lt
res cut

-9600 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
frags; bri cut flor, mod bri lt
res cut

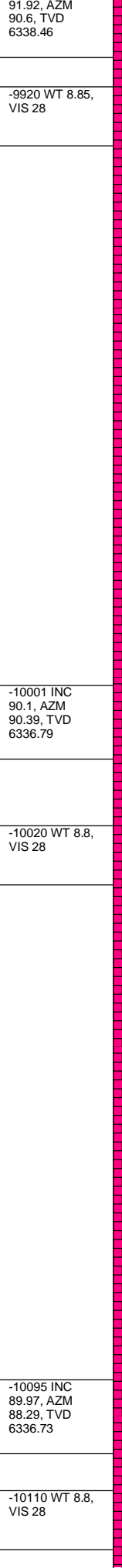
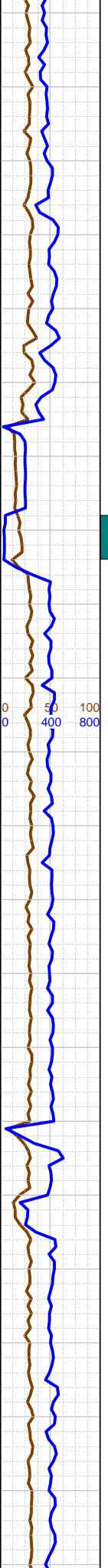
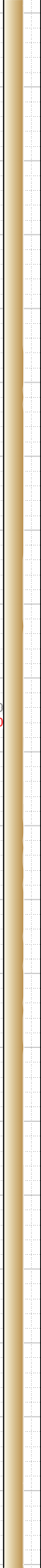
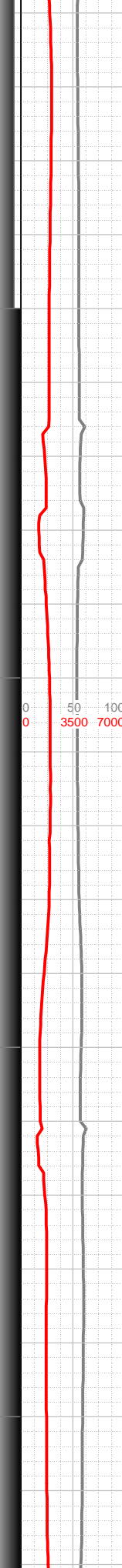
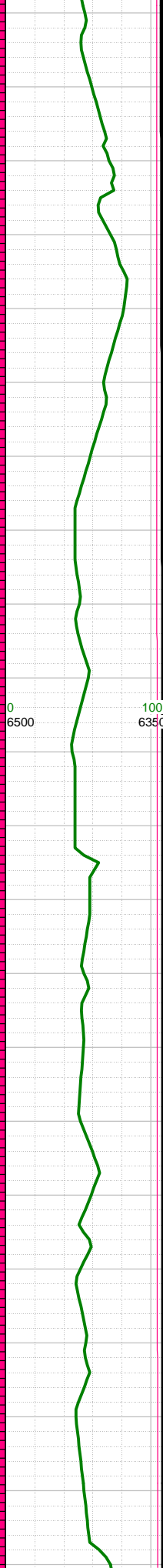
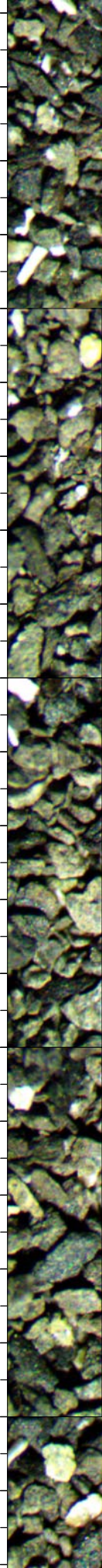
-9650 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; frq forams; frq fos
frags; bri cut flor, mod bri lt
res cut

-9700 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
frags; bri cut flor, dull lt blu
res cut



-9700 WT 8.85, VIS 27	-9750 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 frags; bri cut flr, dull lt blu res cut
-9717 INC 90, AZM 91.74, TVD 6343.47	
-9800 WT 8.85, VIS 28	-9800 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; frq forams; frq fos frags; v bri cut flr w/streaming, bri lt blu res cut
-9812 INC 92.08, AZM 93.5, TVD 6341.74	-9850 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 frags; v bri cut flr w/streaming, bri lt blu res cut
-9906 INC	-9900 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; frq forams; abndt fos frags; v bri cut flr, bri lt blu res cut

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91.92, AZM
90.6, TVD
6338.46

-9920 WT 8.85,
VIS 28

-10000 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frags; v bri cut flor w/streaming, bri lt blu res cut

-10001 INC
90.1, AZM
90.39, TVD
6336.79

-10020 WT 8.8,
VIS 28

-10100 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frags; v bri cut flor w/streaming, bri lt blu res cut

-10095 INC
89.97, AZM
88.29, TVD
6336.73

-10110 WT 8.8,
VIS 28

-10150 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frags; v bri cut flor w/streaming, bri lt blu res cut

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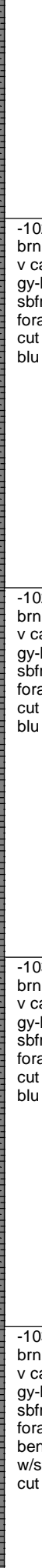
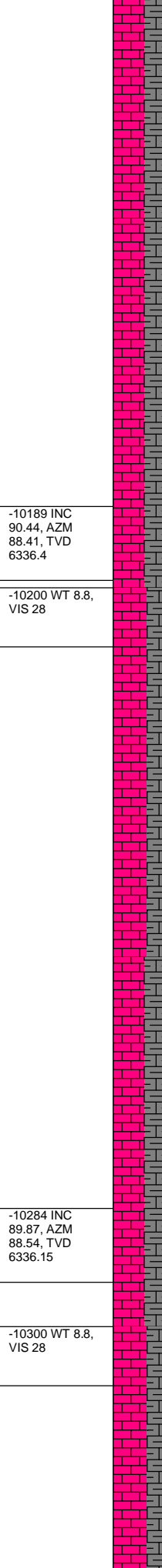
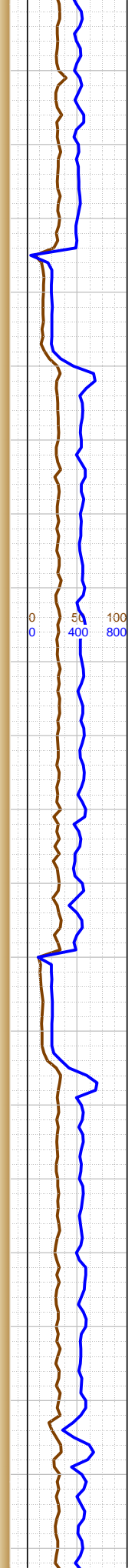
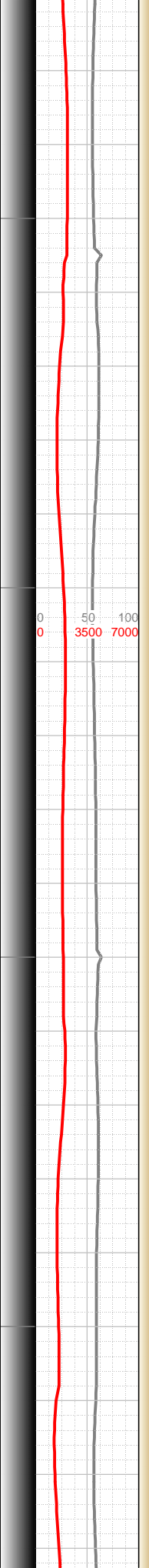
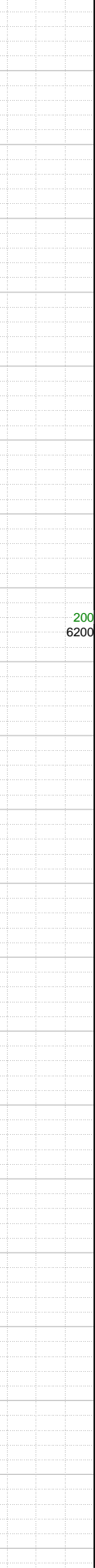
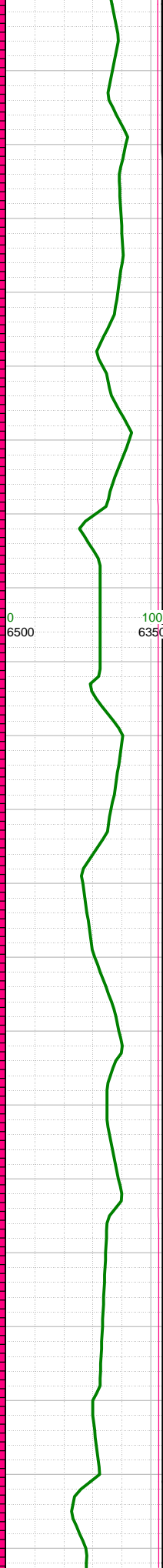
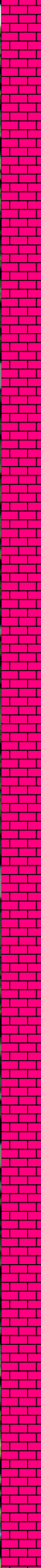
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-10200 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frags; v bri cut flor w/streaming, bri lt blu res cut

-10189 INC
90.44, AZM
88.41, TVD
6336.4

-10200 WT 8.8,
VIS 28

-10250 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 frags; v bri cut flor w/streaming, bri lt blu res cut

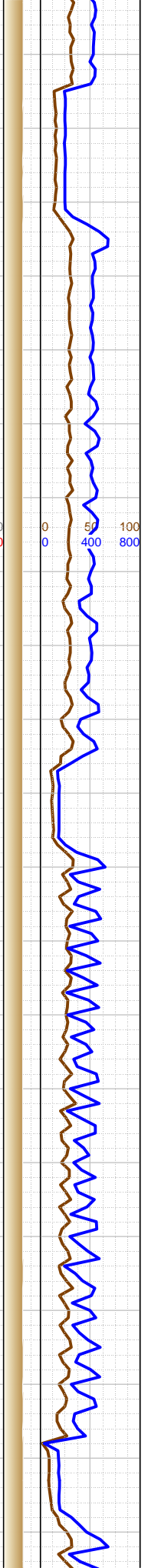
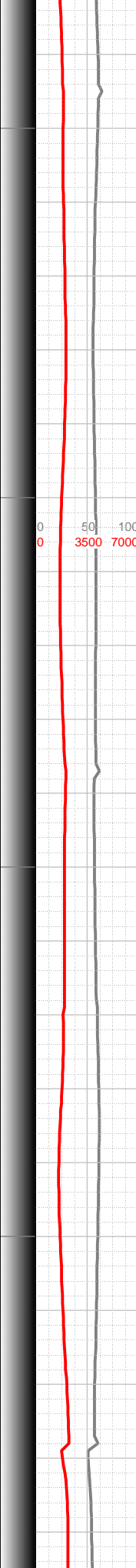
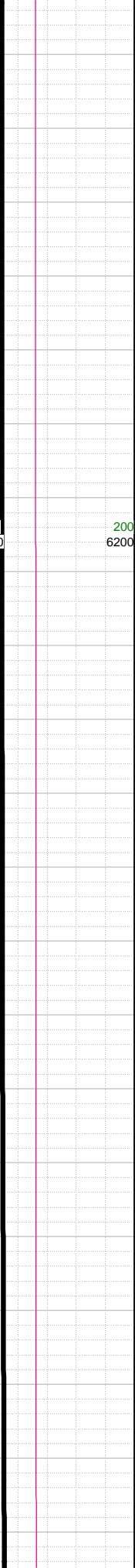
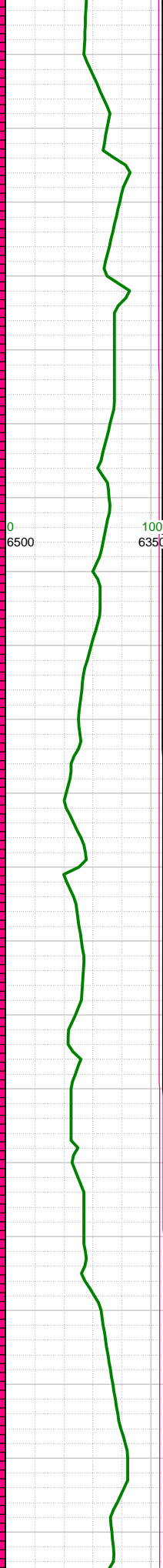
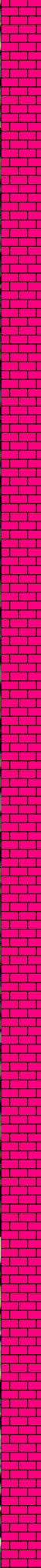
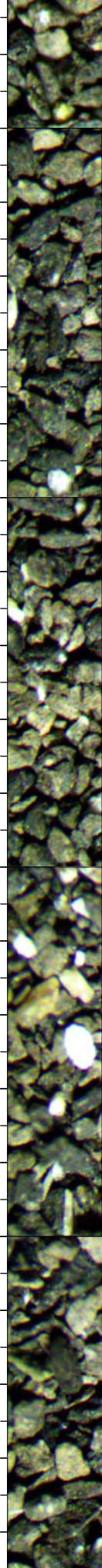
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88.54, TVD
6336.15

-10300 WT 8.8,
VIS 28

-10300 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 frags; v bri cut flor w/streaming, v bri lt blu res cut

-10350 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 frags; tr bent; v bri cut flor w/streaming, v bri lt blu res cut

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-10378 INC
89.8, AZM
88.53, TVD
6336.43

-10400 WT 8.8,
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-10470 INC
90.94, AZM
89.21, TVD
6335.84

-10500 WT 8.8,
VIS 28

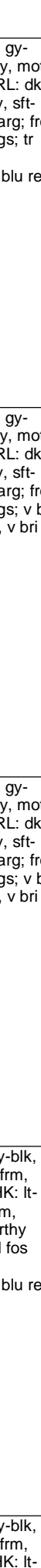
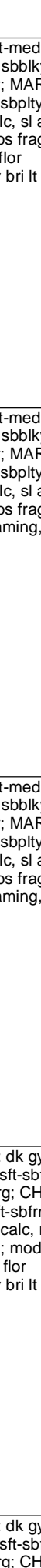
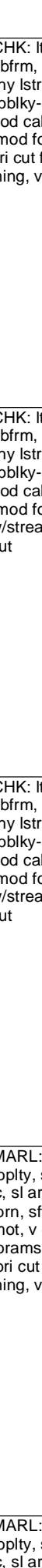
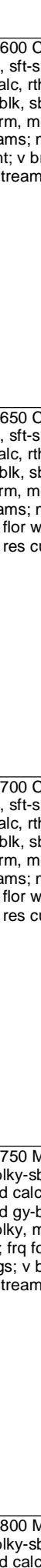
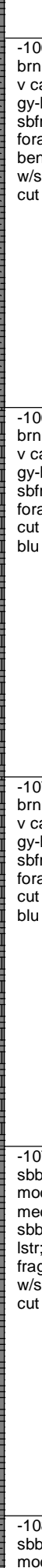
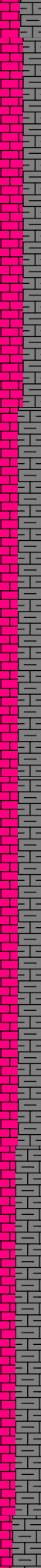
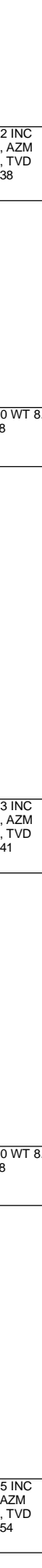
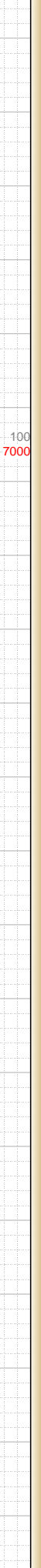
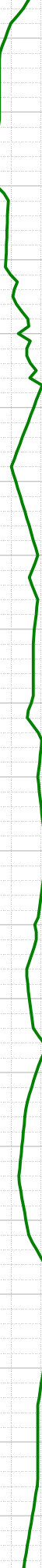
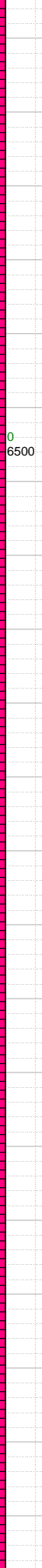
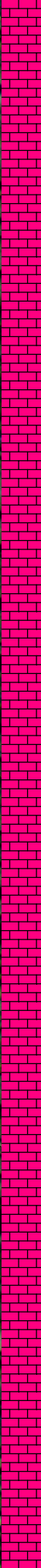
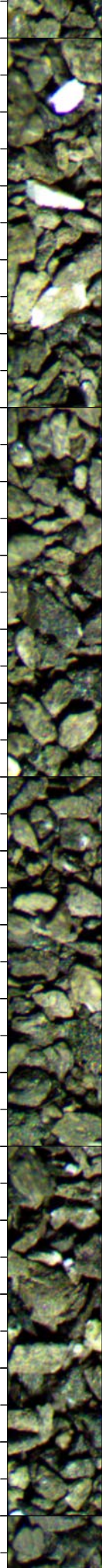
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-10450 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; frq fos frags; v bri cut flor w/streaming, v bri lt blu res cut

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

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-10562 INC
92.12, AZM
89.43, TVD
6333.38

-10600 WT 8.8,
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-10653 INC
90.37, AZM
88.19, TVD
6331.41

-10700 WT 8.8,
VIS 28

-10745 INC
90.7, AZM
88.89, TVD
6330.54

-10600 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; frq forams; mod fos frags; tr bent; v bri cut flor w/streaming, v bri lt blu res cut

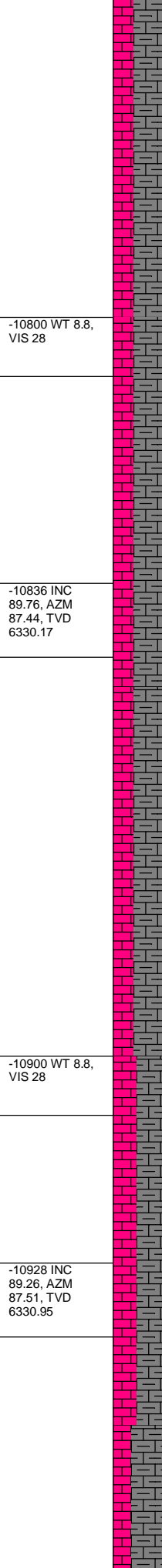
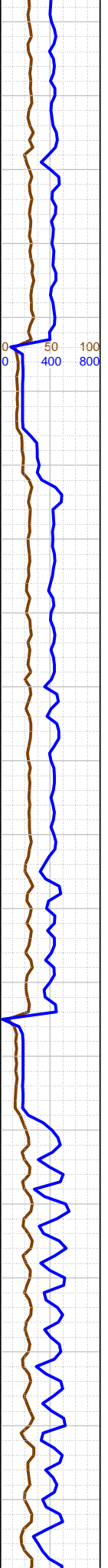
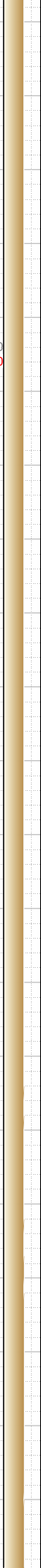
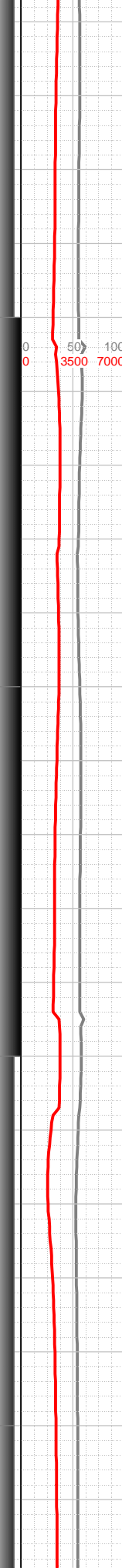
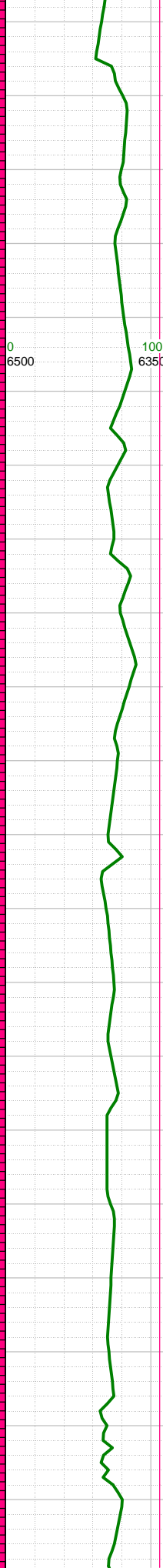
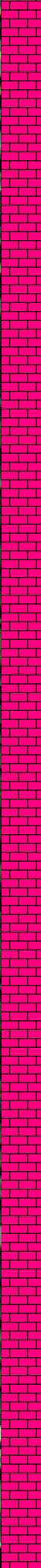
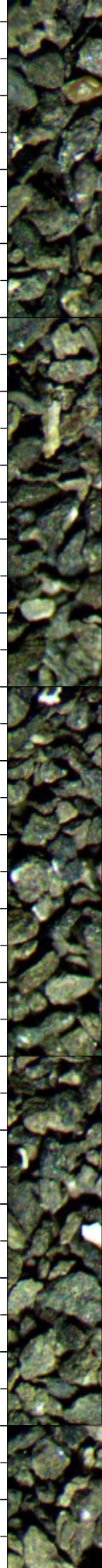
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-10700 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; v bri cut flor w/streaming, v bri lt blu res cut

-10750 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; mod fos frags; v bri cut flor w/streaming, v bri lt blu res cut

-10800 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-

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med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; frq forams; mod fos frags; bri cut flor, bri lt blu res cut

-10800 WT 8.8, VIS 28

-10850 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; mod fos frags; v bri cut flor w/streaming, bri lt blu res cut

-10836 INC 89.76, AZM 87.44, TVD 6330.17

-10900 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; mod fos frags; tr bent; v bri cut flor w/streaming, v bri lt blu res cut

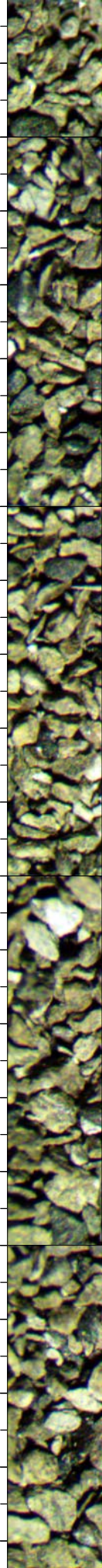
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-10950 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; frq forams; frq fos frags; bri cut flor, bri lt blu res cut

-10928 INC 89.26, AZM 87.51, TVD 6330.95

-11000 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 frags; bri cut flor, bri lt blu res cut

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-11202 INC
91.61, AZM
87.4, TVD
6324.49

-11220 WT
8.85, VIS 28

-11294 INC
91.78, AZM
87.61, TVD
6321.77

-11310 WT
8.85, VIS 28

-11386 INC
90.1, AZM
87.47, TVD
6320.26

-11250 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; tr bent; v bri cut flor w/streaming, v bri lt blu res cut

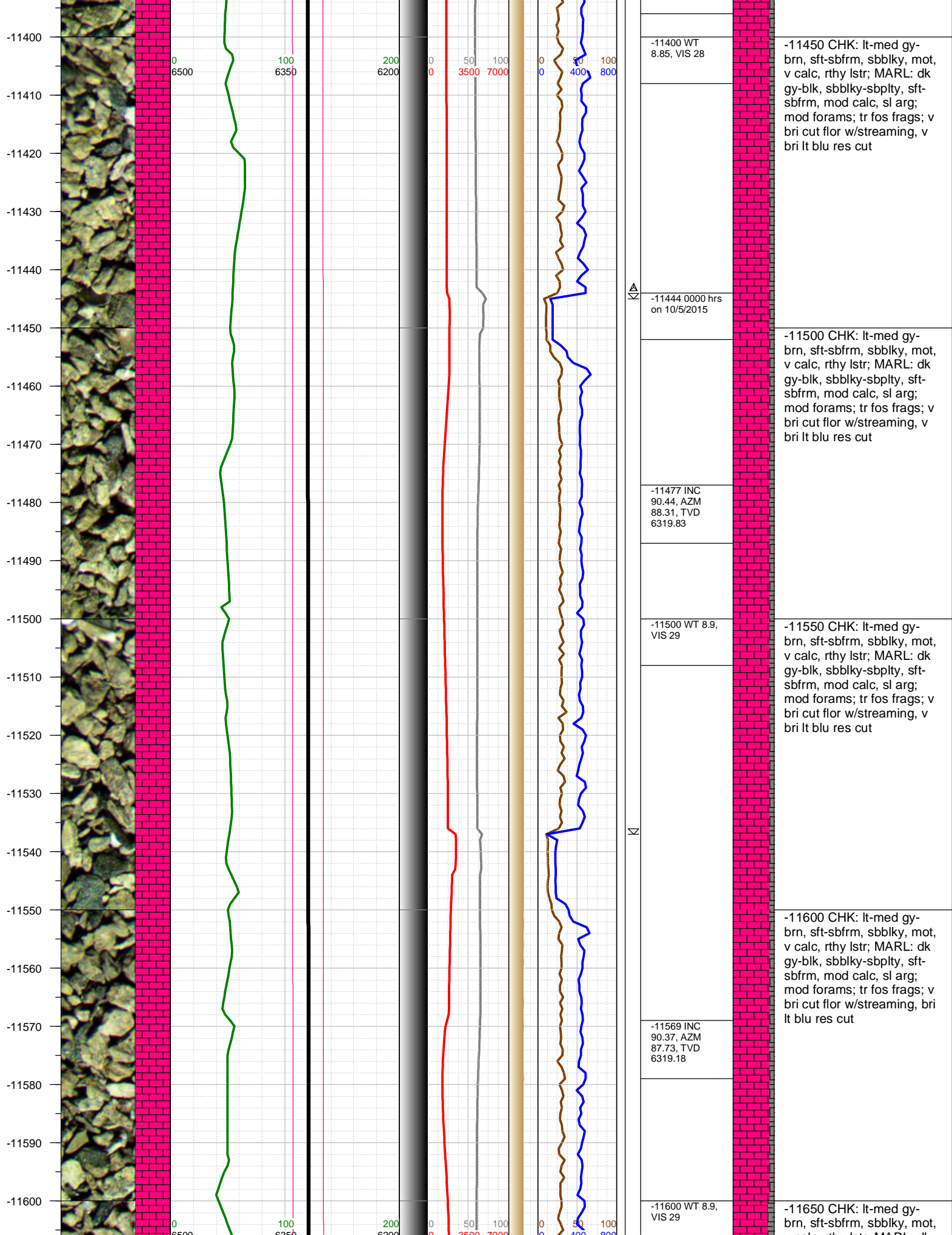
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-11350 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod forams; tr fos frags; v bri cut flor w/streaming, v bri lt blu res cut

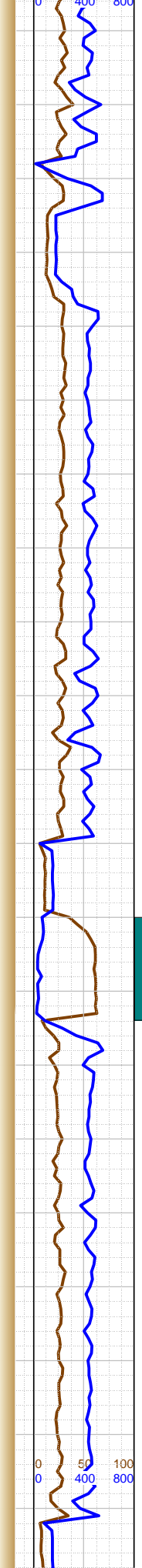
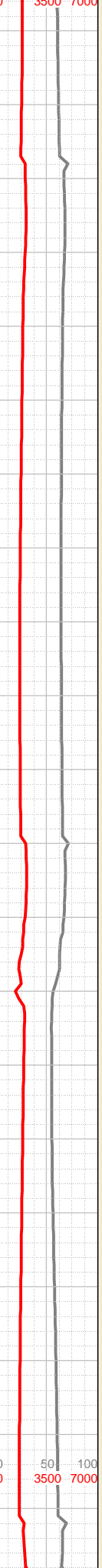
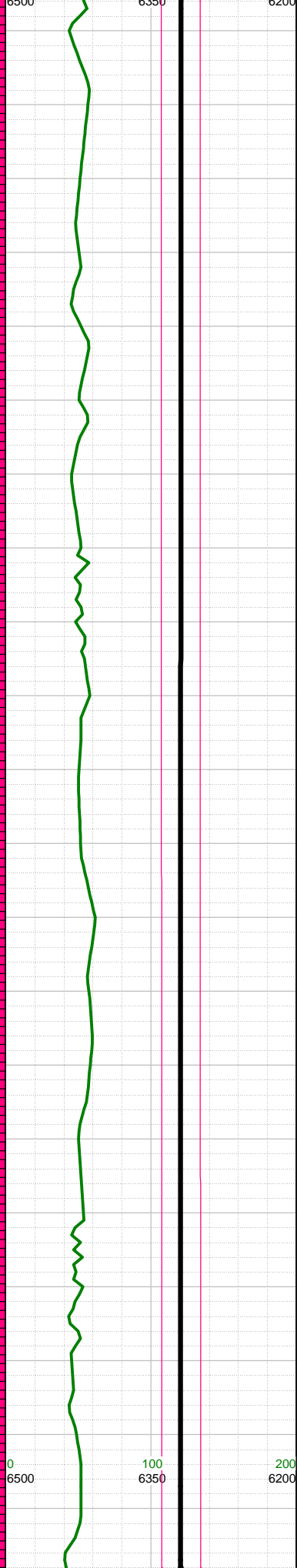
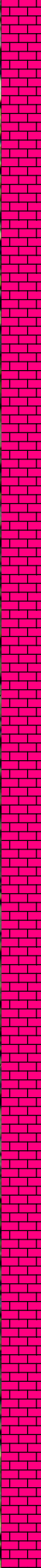
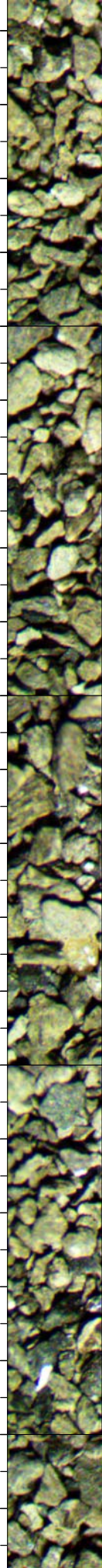
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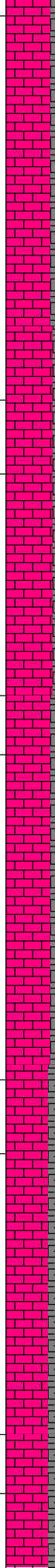
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-11660 INC
89.8, AZM
86.31, TVD
6319.05

-11700 WT 8.9,
VIS 29

-11752 INC
89.4, AZM
88.09, TVD
6319.7

-11800 WT 8.9,
VIS 29



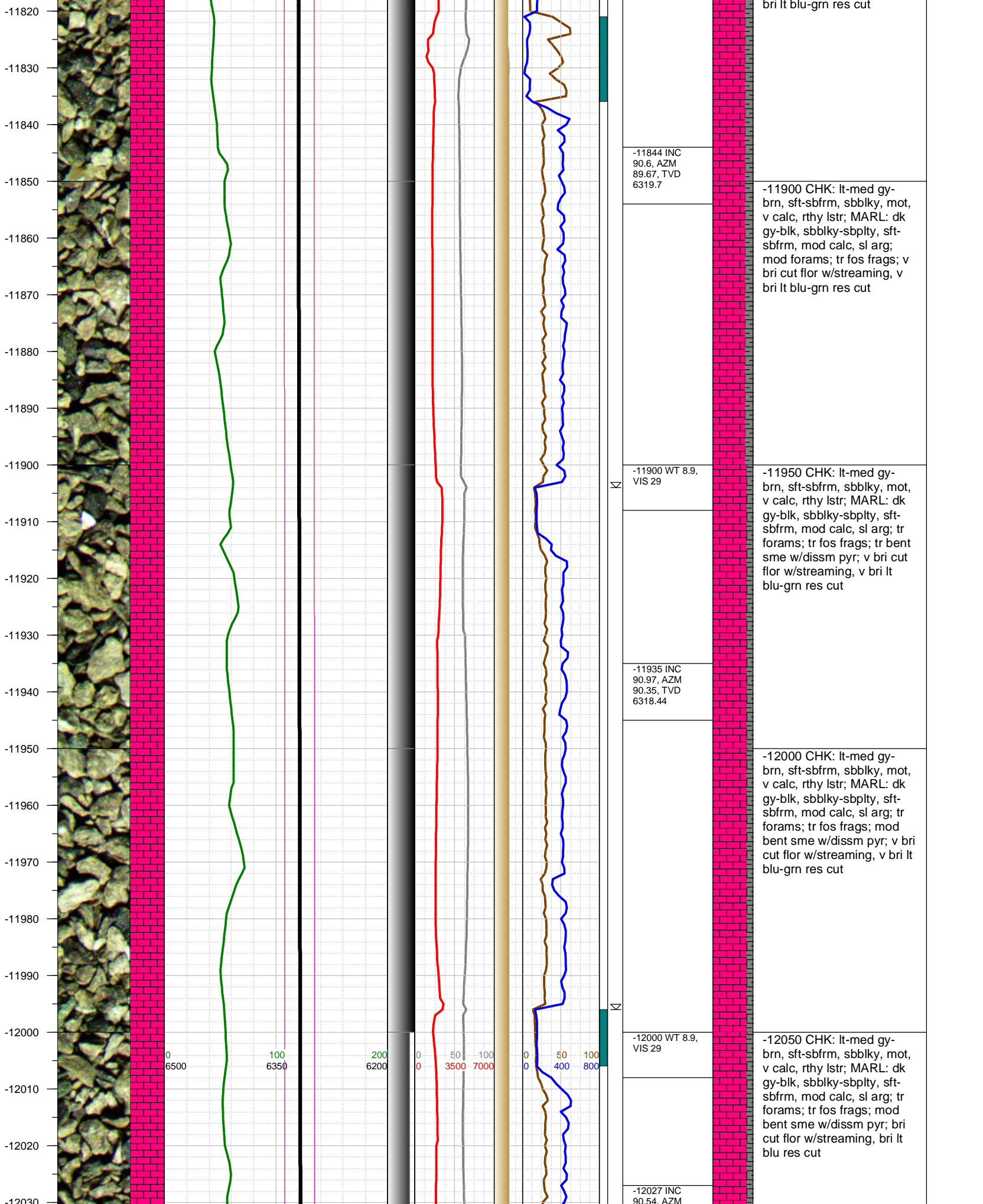
v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod forams; tr fos frags; tr pyr; v bri cut flr w/streaming, bri lt blu res cut

-11700 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 forams; tr fos frags; v bri cut flr w/streaming, mod bri lt blu res cut

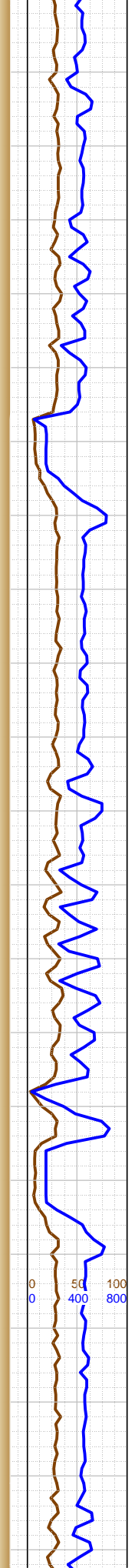
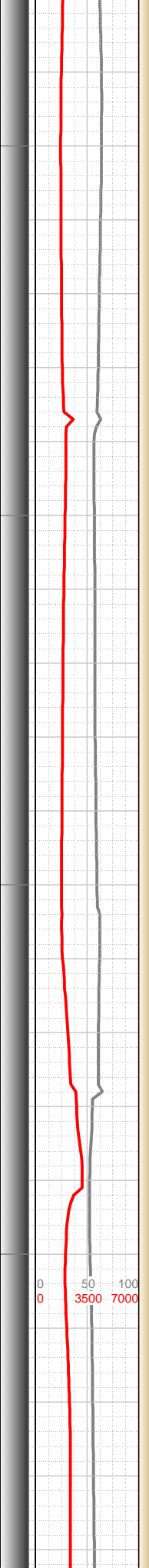
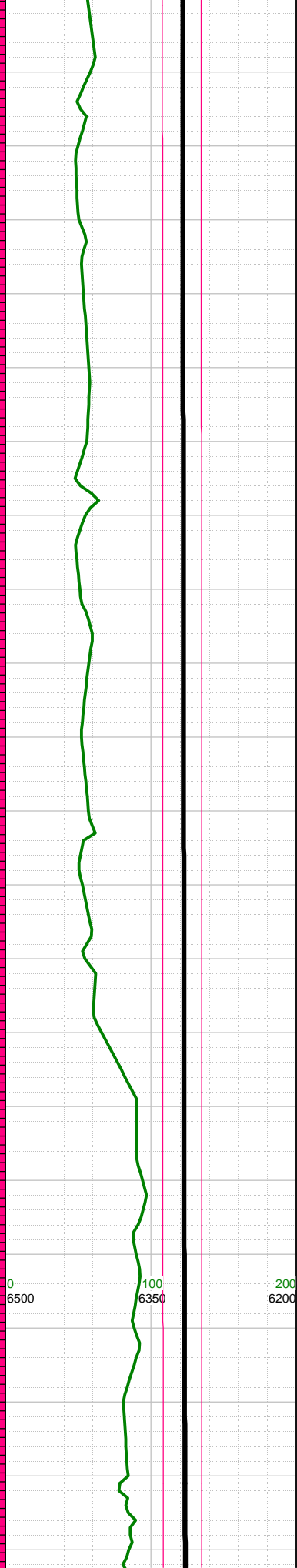
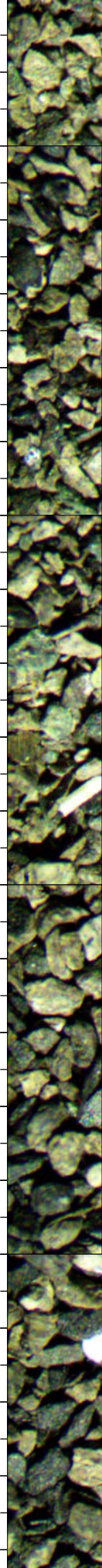
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-11800 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl frags; v bri cut flr w/streaming, v bri lt blu-grn res cut

-11850 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 forams; tr fos frags; v bri cut flr w/streaming, v



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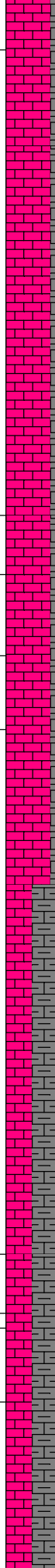
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6317.23

-12100 WT 8.9,
VIS 29

-12119 INC
90.37, AZM
91.27, TVD
6316.5

-12200 WT 9,
VIS 29

-12210 INC
90.71, AZM
92.35, TVD
6315.65



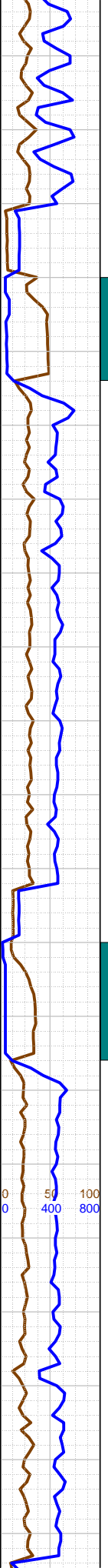
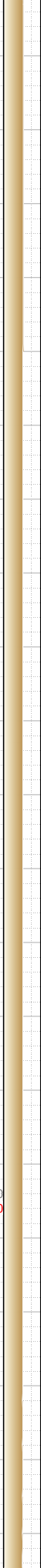
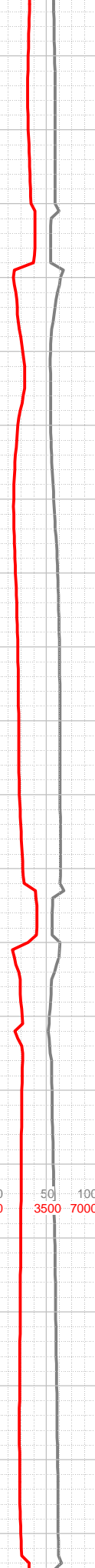
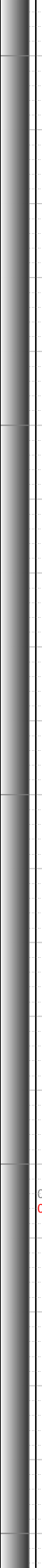
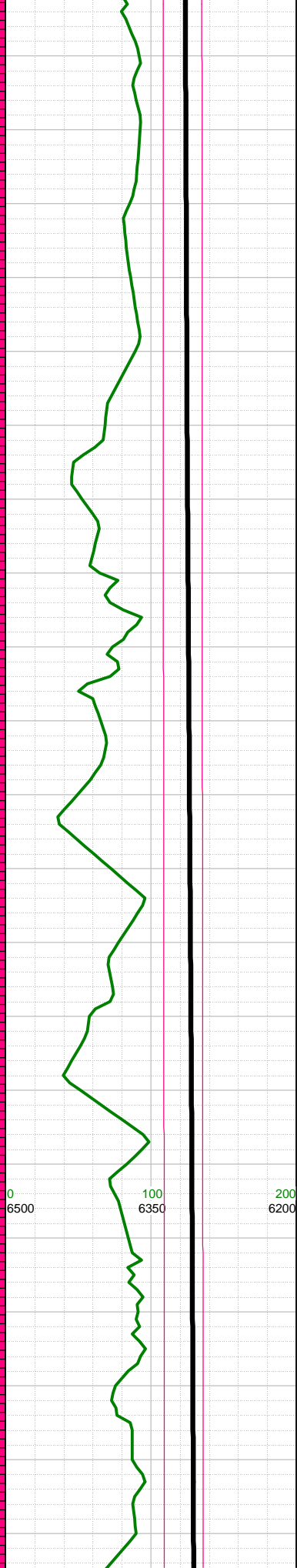
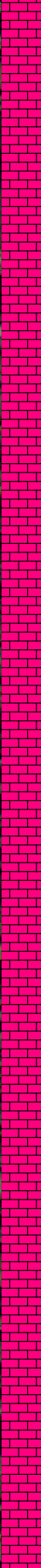
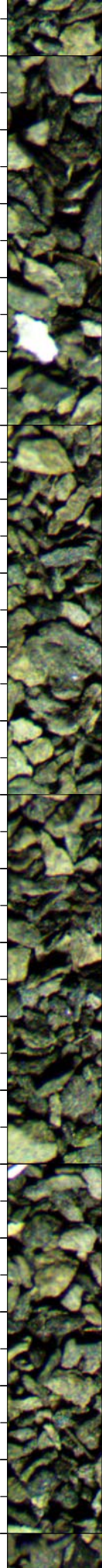
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-12150 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; mod bent sme w/dissm pyr; bri cut flor, bri lt blu res cut

-12200 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; tr bent sme w/dissm pyr; bri cut flor, bri lt blu res cut

-12250 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; tr bent sme w/dissm pyr; bri cut flor, mod bri lt blu res cut

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-12302 INC
92.99, AZM
92.34, TVD
6312.68

-12320 WT 9,
VIS 29

-12393 INC
92.79, AZM
91.02, TVD
6308.09

-12410 WT 9.1,
VIS 28

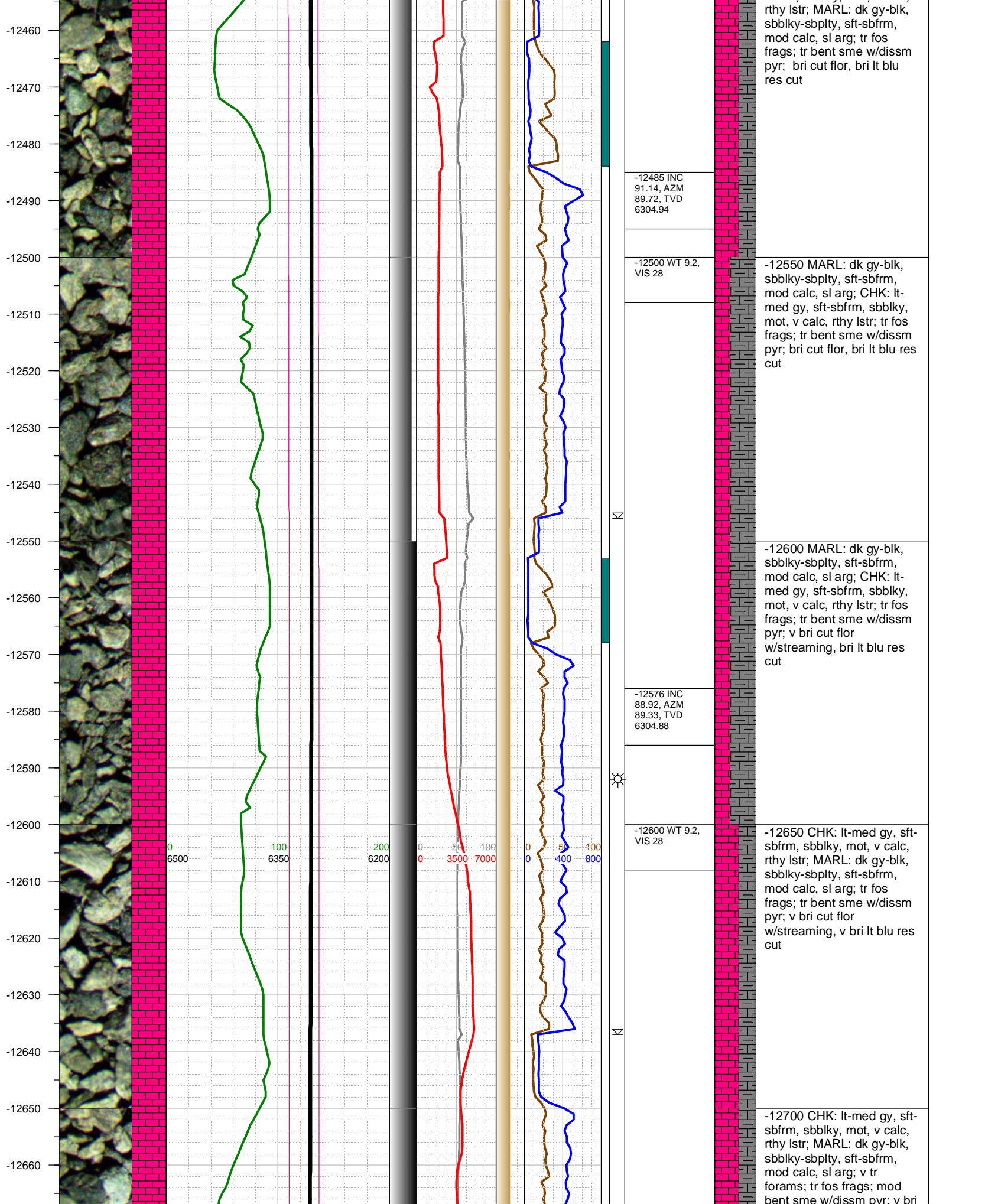
-12300 CHK: lt-med gy, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; v tr forams; tr fos frags; tr bent sme w/dissm pyr; bri cut flor, bri lt blu res cut

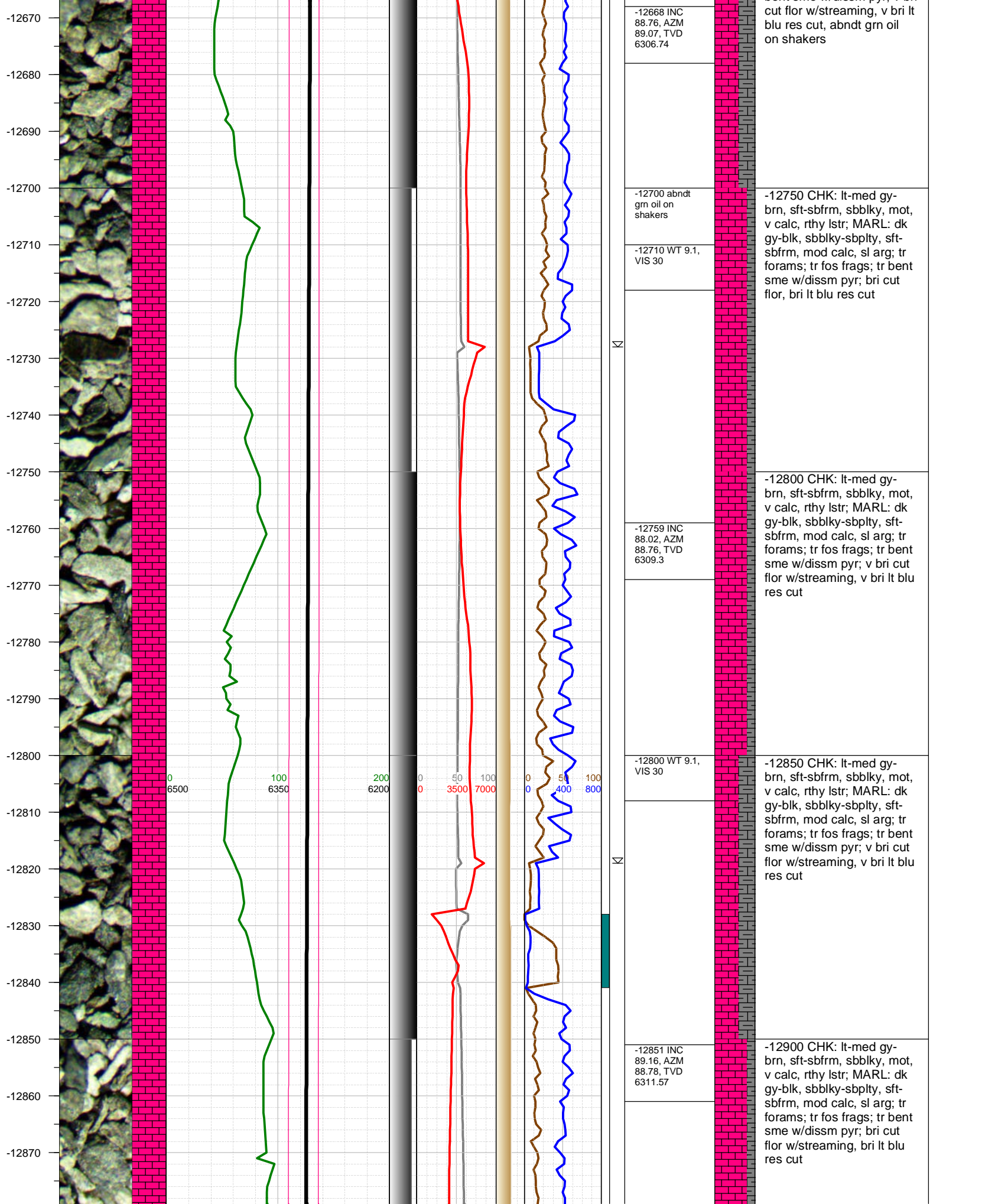
-12350 CHK: lt-med gy, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; v tr forams; tr fos frags; tr bent sme w/dissm pyr; bri cut flor, bri lt blu res cut

-12400 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr fos frags; tr bent sme w/dissm pyr; ; bri cut flor, bri lt blu res cut

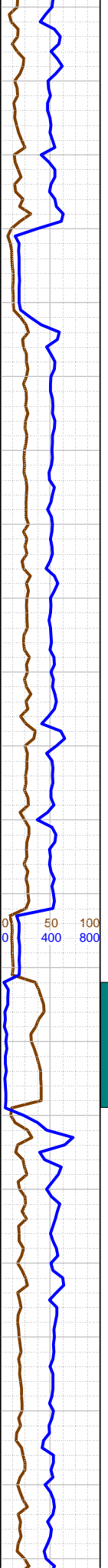
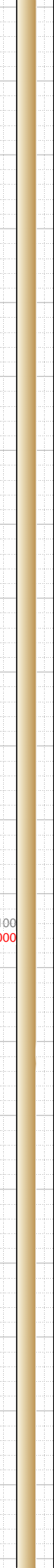
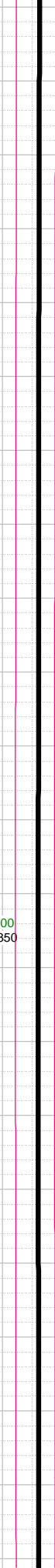
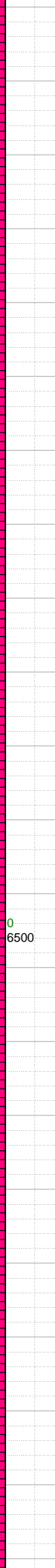
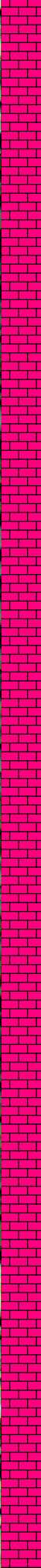
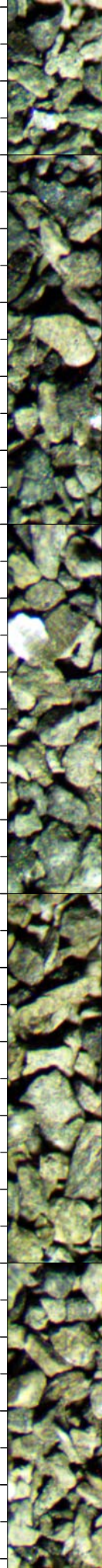
-12450 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr fos frags; tr bent sme w/dissm pyr; bri cut flor, bri lt blu res cut

-12500 CHK: lt-med gy, sft-sbfrm, sbbly, mot, v calc.





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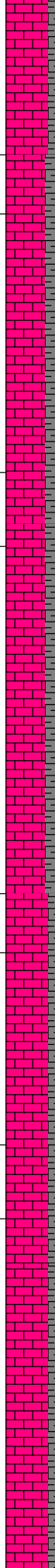
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-12900 WT 9.1,
VIS 29

-12943 INC
88.99, AZM
88.75, TVD
6313.05

-13000 WT 9.1,
VIS 29

-13034 INC
90.6, AZM
88.21, TVD
6313.37



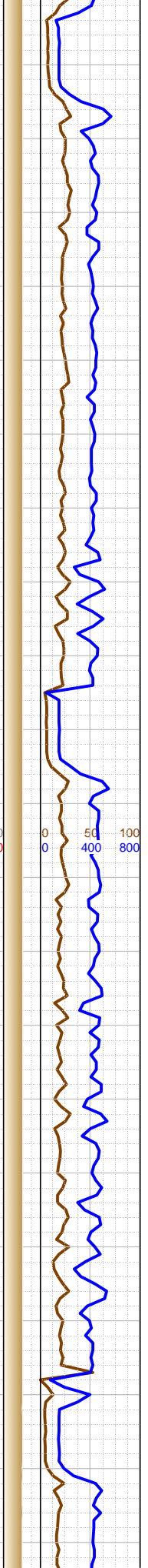
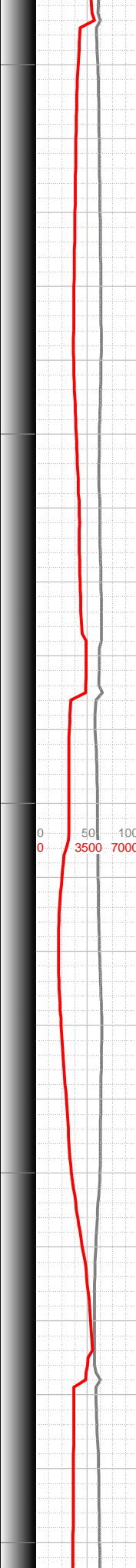
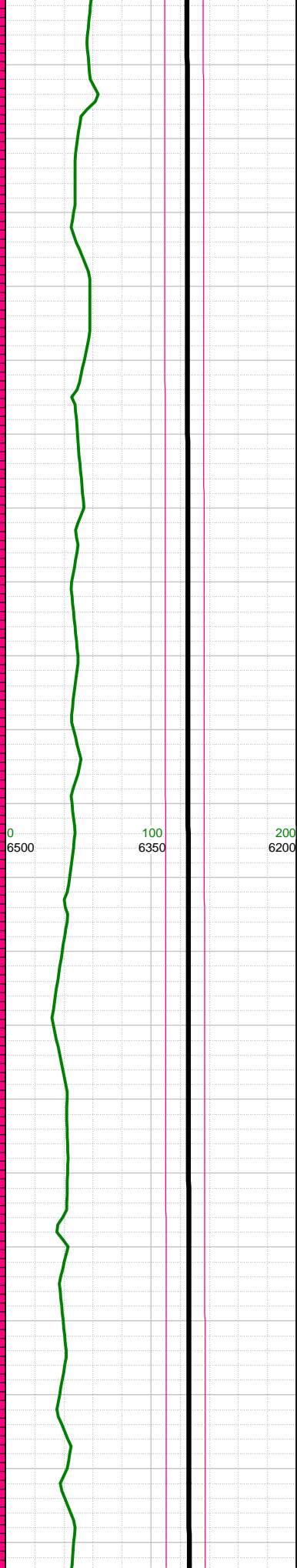
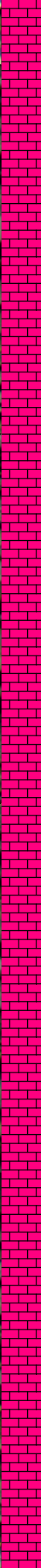
-12950 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; mod fos frags; bri cut flor w/streaming, bri lt blu res cut

-13000 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; mod fos frags; bri cut flor w/streaming, bri lt blu res cut

-13050 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; tr bent sme w/dissm pyr; v bri cut flor w/streaming, v bri lt blu res cut

-13100 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; v bri cut flor w/streaming, v bri lt blu res cut

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-13100 WT 9.1, VIS 29

-13126 INC 90.57, AZM 88.59, TVD 6312.43

-13200 WT 9.1, VIS 29

-13218 INC 90.54, AZM 88.49, TVD 6311.54

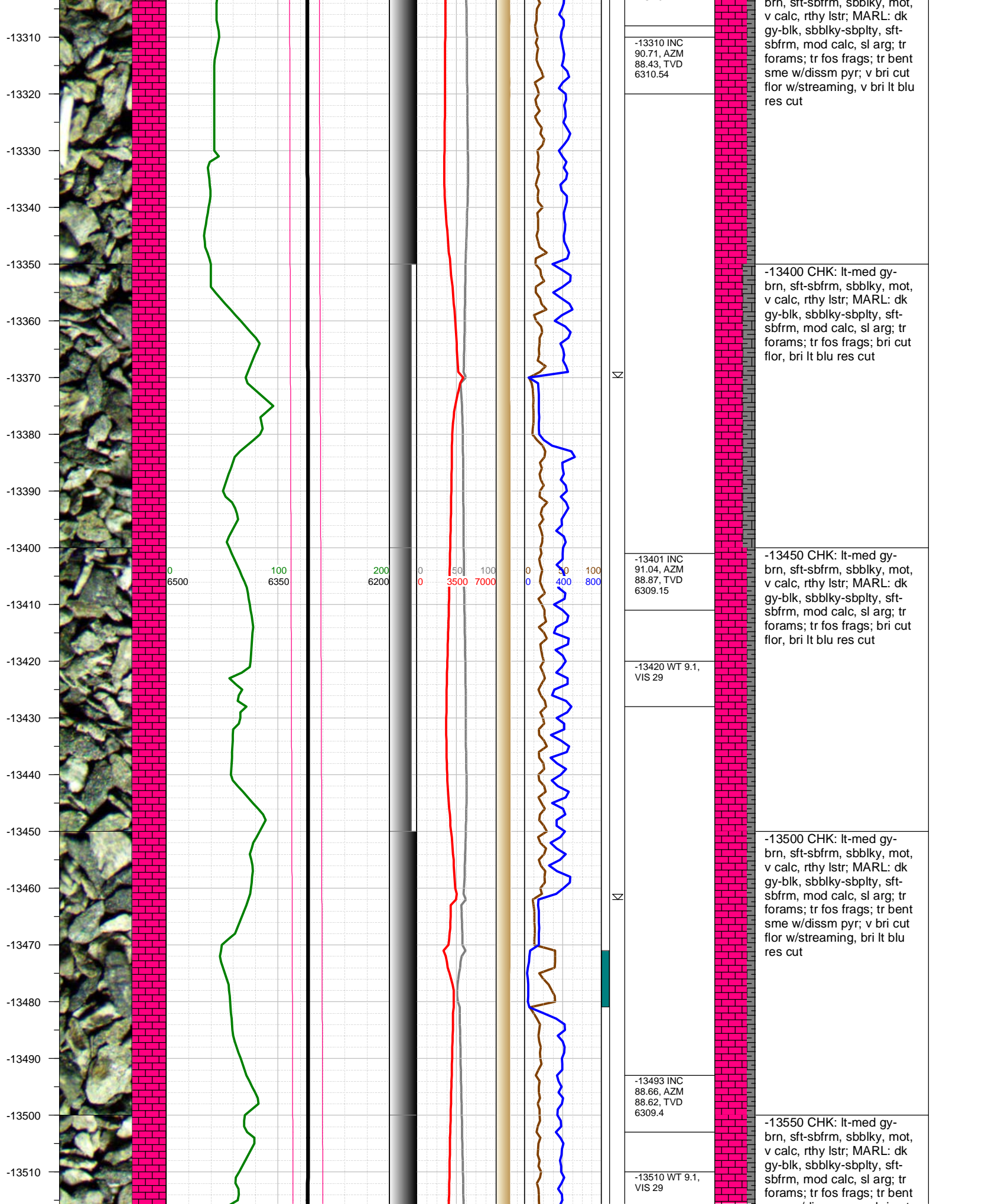
-13300 WT 9.1, VIS 29

-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; tr forams; tr fos frags; tr bent sme w/dissm pyr; v bri cut flor w/streaming, bri lt blu res cut

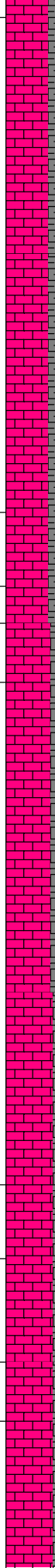
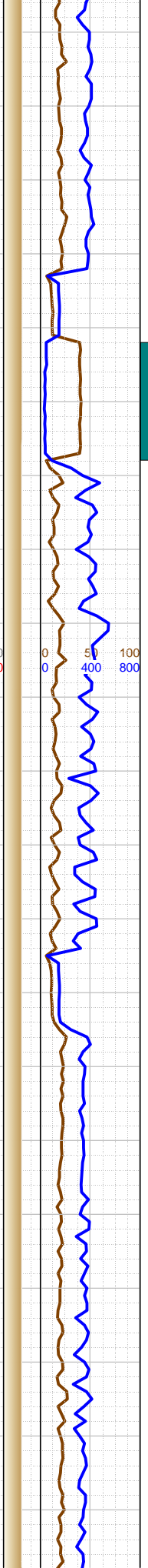
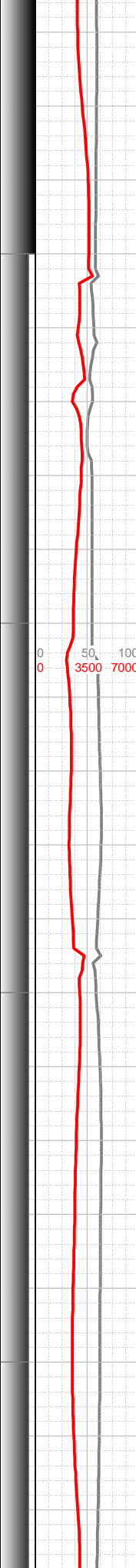
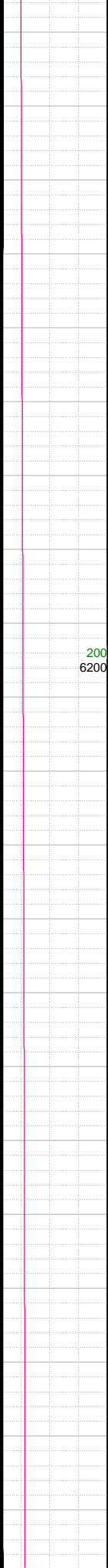
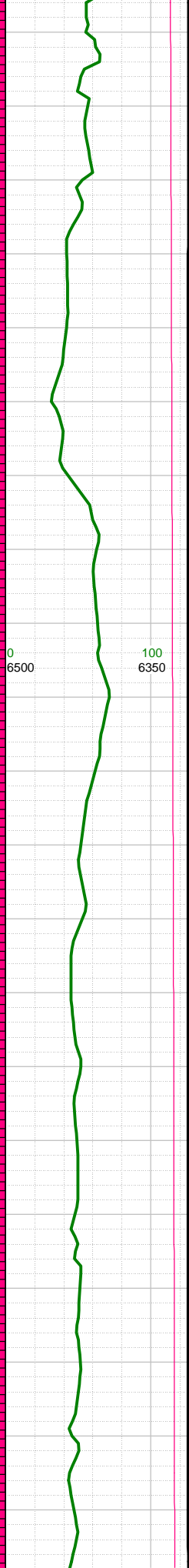
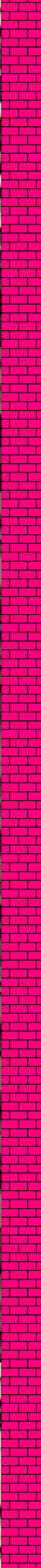
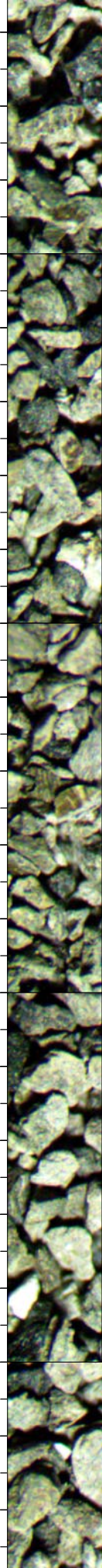
-13200 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; tr bent sme w/dissm pyr; v bri cut flor w/streaming, v bri lt blu res cut

-13250 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 frags; tr bent sme w/dissm pyr; v bri cut flor w/streaming, bri lt blu res cut

-13300 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 frags; tr bent sme w/dissm pyr; v bri cut flor w/streaming, v bri lt blu res cut



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sme w/dissm pyr; v bri cut
flor w/streaming, bri lt blu
res cut

-13600 CHK: lt-med gy-
brn, sft-sbfrm, sbbly, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbbly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; tr fos frags; v
tr bent sme w/dissm pyr;
bri cut flor, bri lt blu res cut

-13585 INC
89.8, AZM
88.93, TVD
6310.64

-13600 WT 9.1,
VIS 29

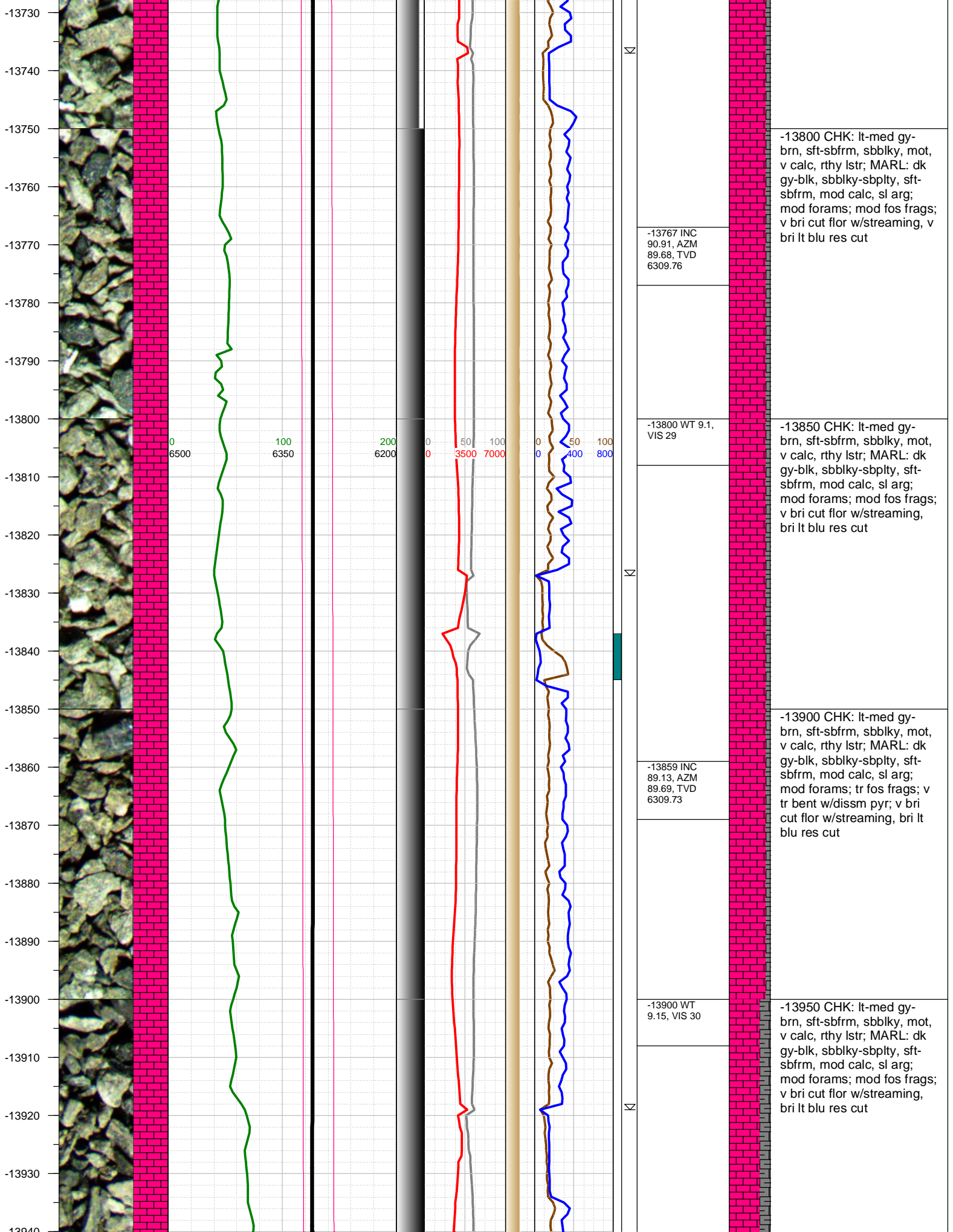
-13650 CHK: lt-med gy-
brn, sft-sbfrm, sbbly, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbbly-sbplty, sft-
sbfrm, mod calc, sl arg;
mod forams; tr fos frags;
bri cut flor, bri lt blu res cut

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

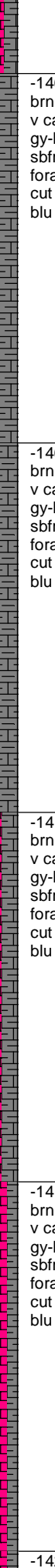
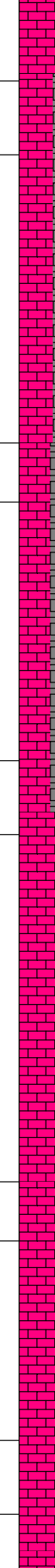
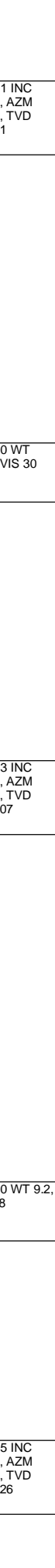
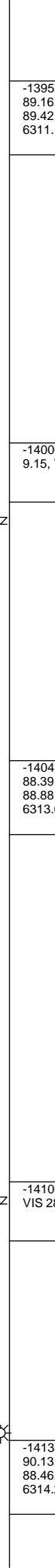
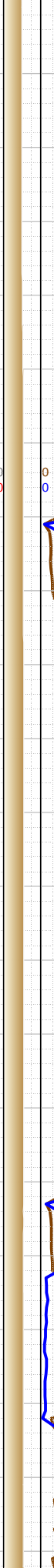
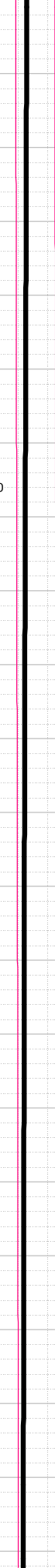
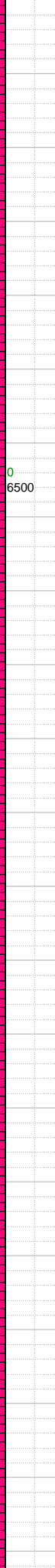
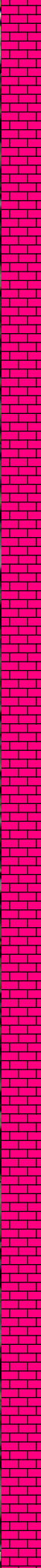
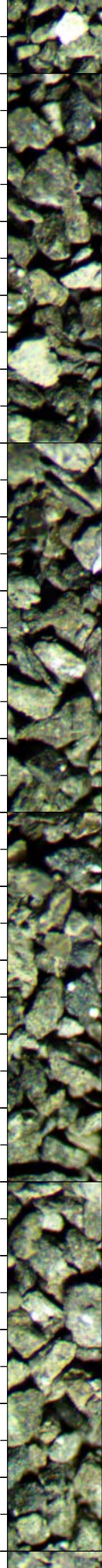
-13676 INC
90.2, AZM
89.36, TVD
6310.64

-13700 WT 9.1,
VIS 29

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



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-13951 INC
89.16, AZM
89.42, TVD
6311.1

-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; frq forams; mod fos frags; v bri cut flor w/streaming, v bri lt blu res cut

-14000 WT
9.15, VIS 30

-14050 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; mod fos frags; v bri cut flor w/streaming, bri lt blu res cut

-14043 INC
88.39, AZM
88.88, TVD
6313.07

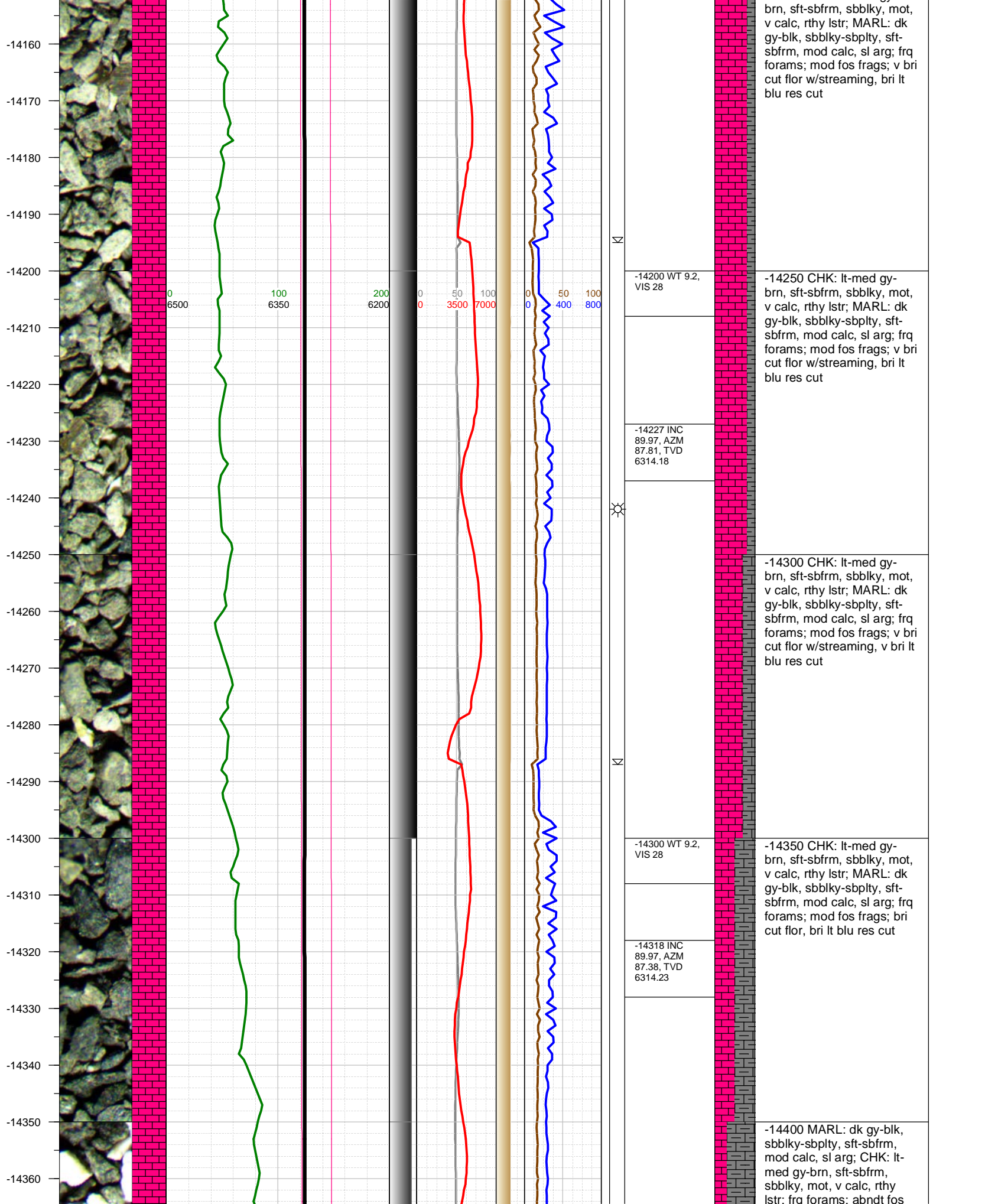
-14100 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; v bri cut flor w/streaming, bri lt blu res cut

-14100 WT 9.2,
VIS 28

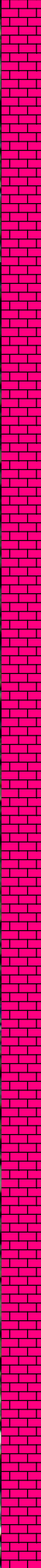
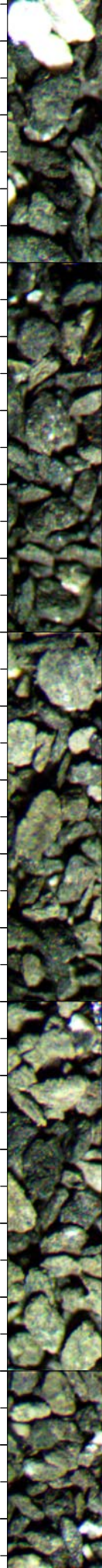
-14150 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; v bri cut flor w/streaming, bri lt blu res cut

-14135 INC
90.13, AZM
88.46, TVD
6314.26

-14200 CHK: lt-med gy-



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6200

0 50 100
0 3500 7000

0 50 100
0 400 800



-14400 WT 9.2,
VIS 28

-14410 INC
90.44, AZM
87.71, TVD
6313.91

-14501 INC
91.18, AZM
88.16, TVD
6312.63

-14520 WT 9.2,
VIS 29



-14539 0000 hrs
on 10/6/2015

frags; bri cut flor, bri lt blu res cut

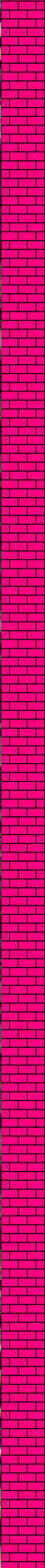
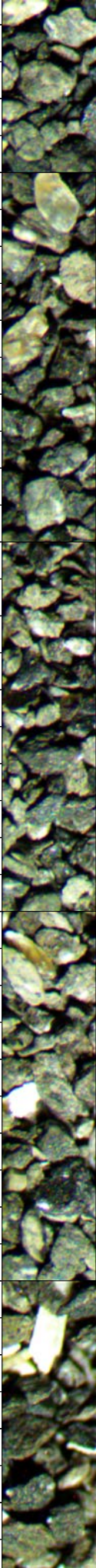
-14450 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; frq forams; frq fos frags; bri cut flor, bri lt blu res cut

-14500 CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; bri cut flor, bri lt blu res cut

-14550 CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; frq forams; mod fos frags; v bri cut flor w/streaming, v bri lt blu res cut

-14600 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; frq forams; frq fos frags; bri cut flor, bri lt blu res cut

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3500

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7000

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400

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800

-14592 INC
89.83, AZM
88.06, TVD
6311.83

-14610 WT 9.2,
VIS 29

-14684 INC
90.47, AZM
88.55, TVD
6311.59

-14700 WT 9.2,
VIS 30

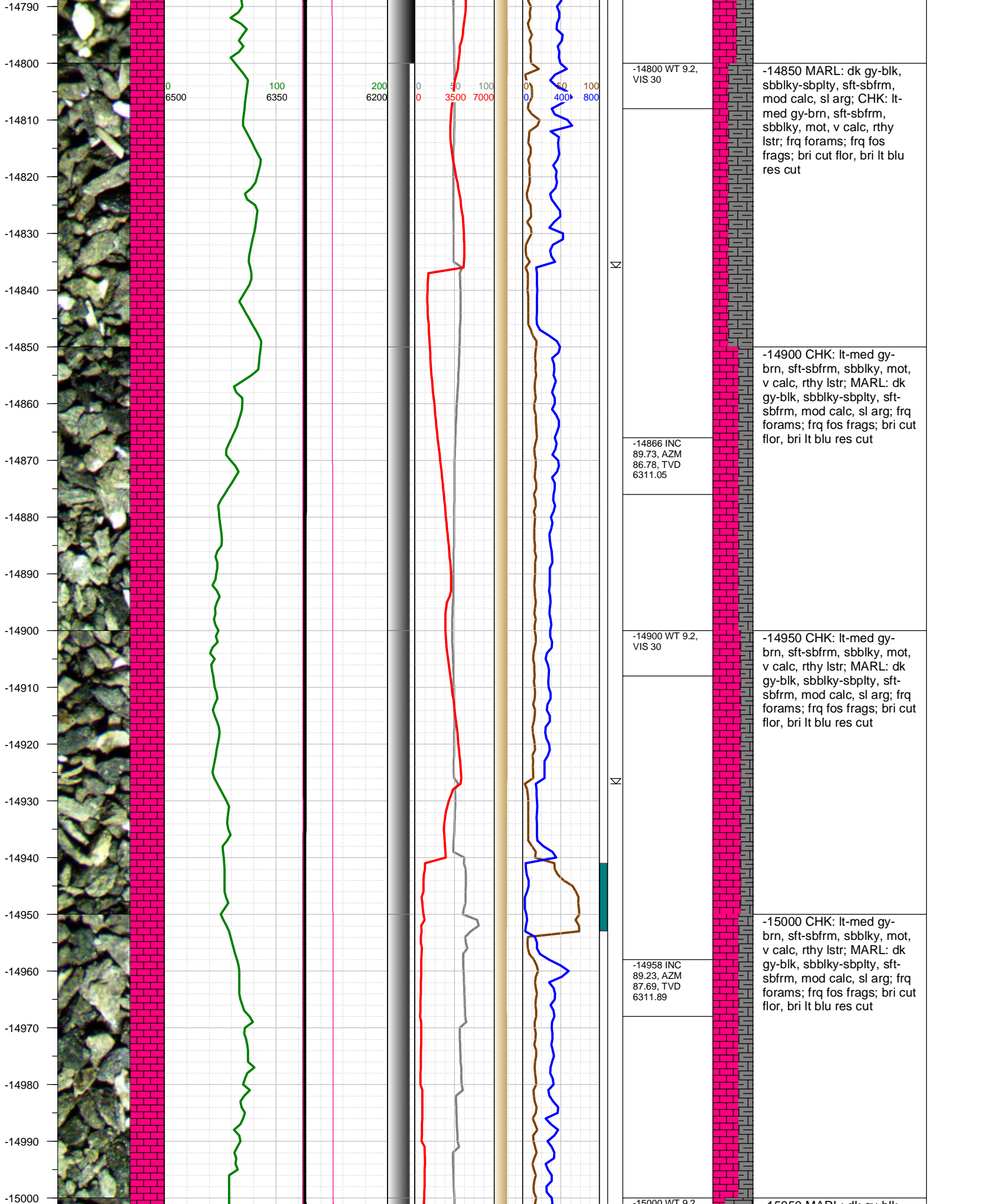
-14775 INC
90.23, AZM
87.45, TVD
6311.03

-14650 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; abndt fos frags; bri cut flr w/streaming, bri lt blu res cut

-14700 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; frq forams; frq fos frags; v bri cut flr w/streaming, bri lt blu res cut

-14750 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; frq forams; frq fos frags; v bri cut flr w/streaming, bri lt blu res cut

-14800 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; frq forams; abndt fos frags; v bri cut flr w/streaming, bri lt blu res cut



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-14990
-15000

0 100 200 300 400 500 600 700 800
6500 6350 6200 3500 7000 400 800

-14800 WT 9.2,
VIS 30

-14850 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
frags; bri cut flor, bri lt blu
res cut

-14866 INC
89.73, AZM
86.78, TVD
6311.05

-14900 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 frags; bri cut
flor, bri lt blu res cut

-14900 WT 9.2,
VIS 30

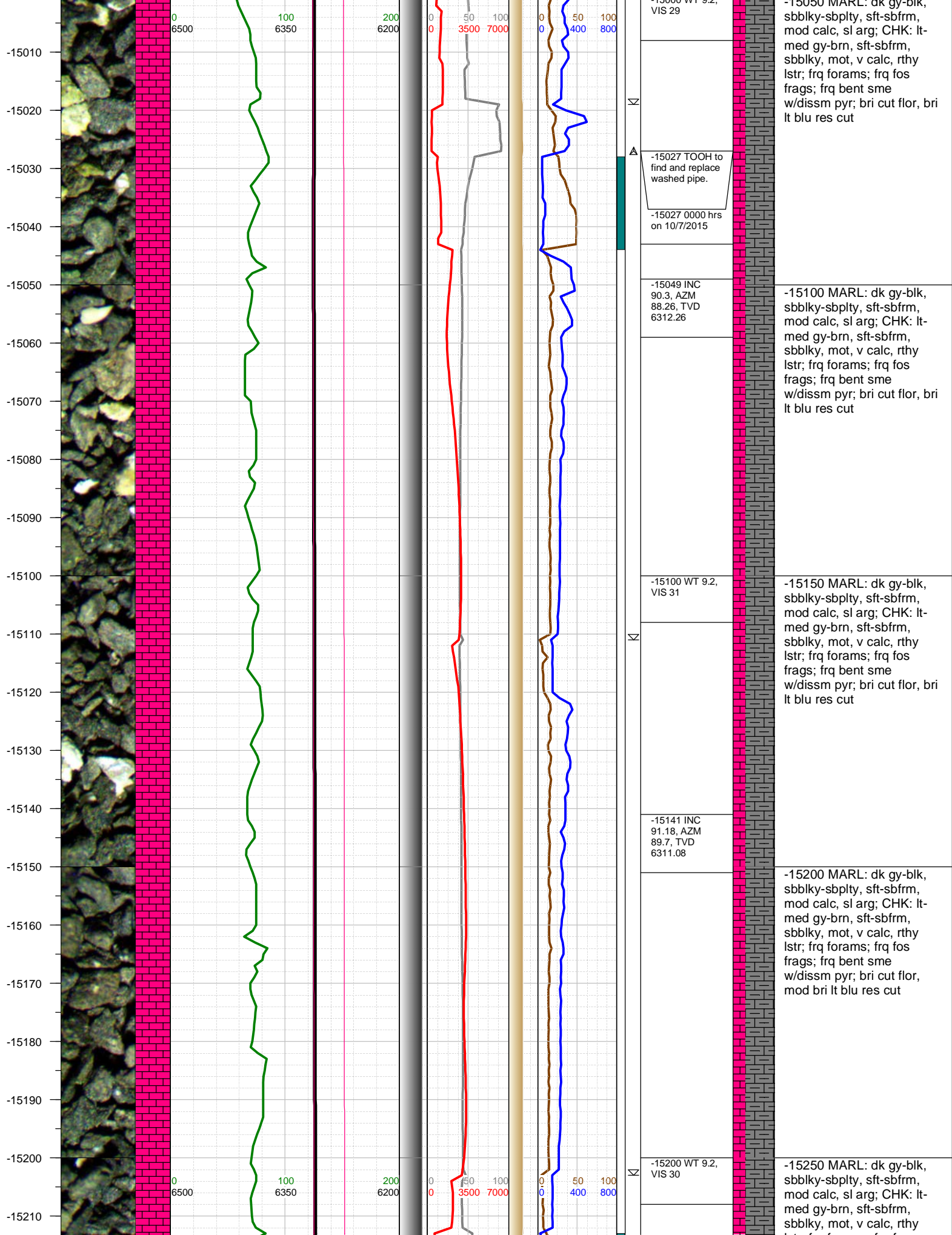
-14950 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg; frq
forams; frq fos frags; bri cut
flor, bri lt blu res cut

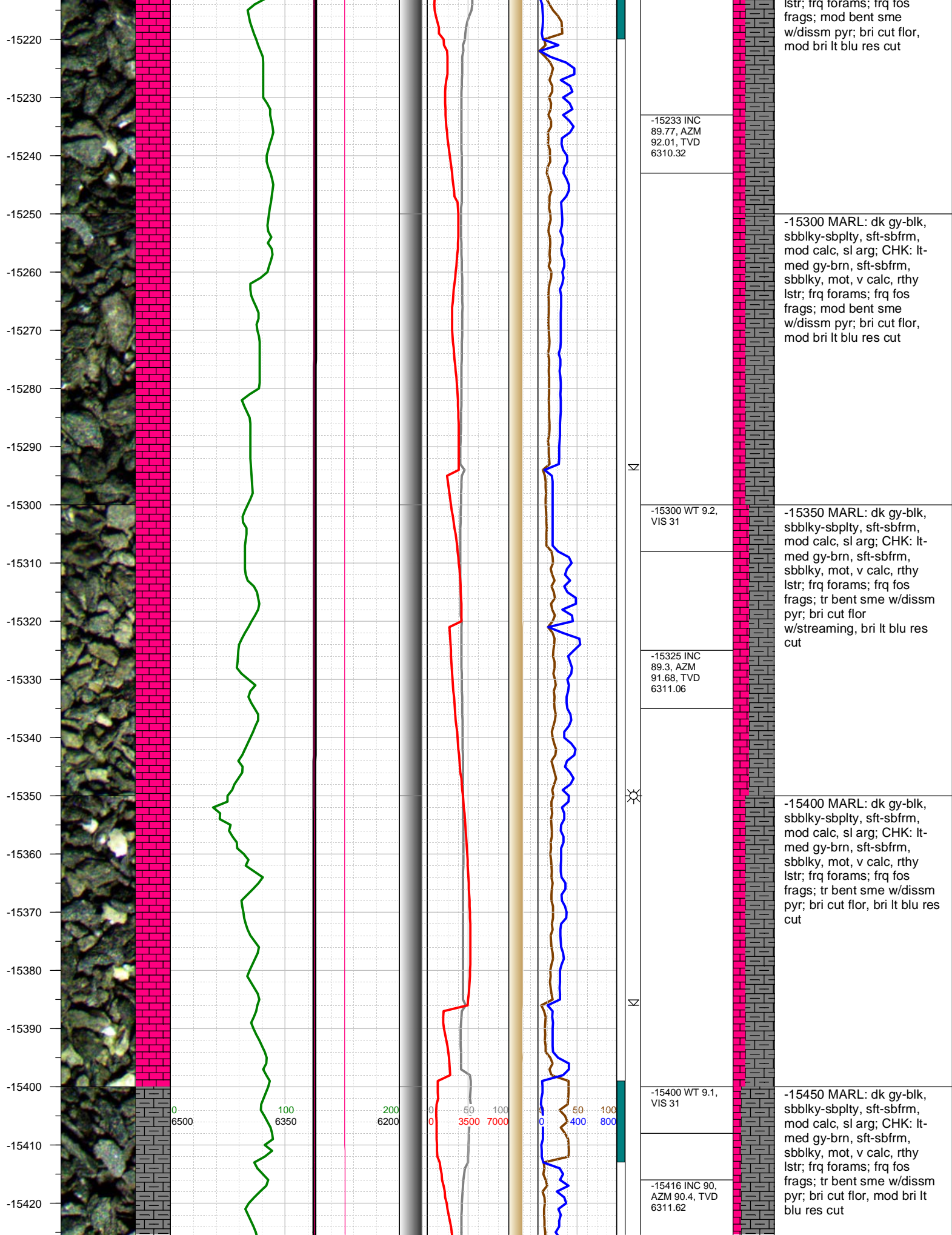
-14958 INC
89.23, AZM
87.69, TVD
6311.89

-15000 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 frags; bri cut
flor, bri lt blu res cut

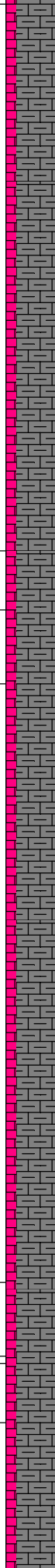
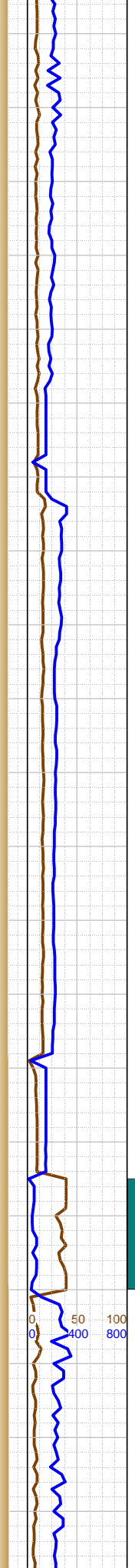
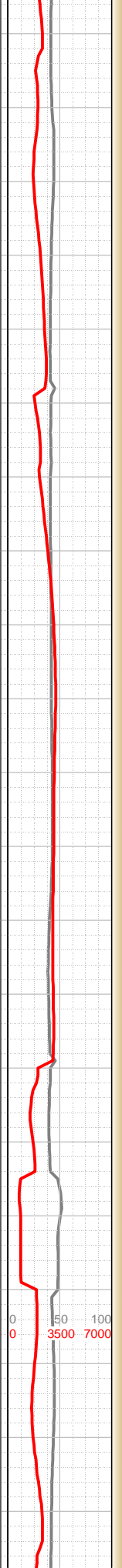
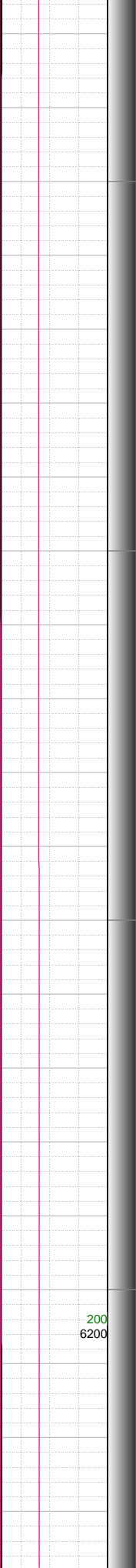
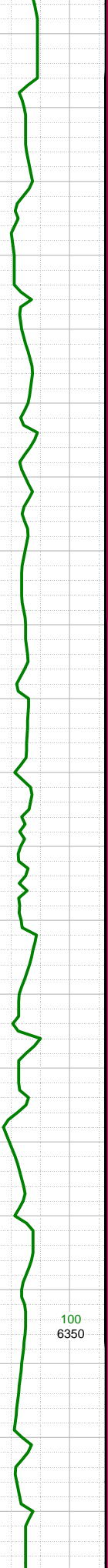
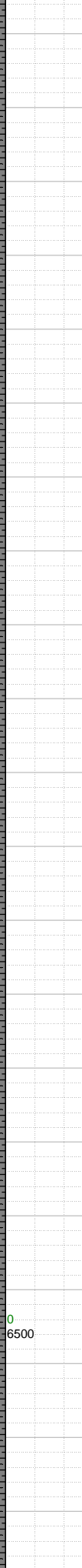
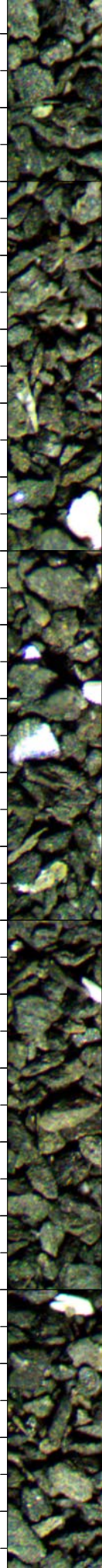
-15000 WT 9.2,
VIS 30

-15000 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
frags; bri cut flor, bri lt blu
res cut





-15430
-15440
-15450
-15460
-15470
-15480
-15490
-15500
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-15520
-15530
-15540
-15550
-15560
-15570
-15580
-15590
-15600
-15610
-15620
-15630



-15500 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 frags; tr bent sme w/dissm pyr; bri cut flor, mod bri lt blu res cut

-15500 WT 9.1, VIS 31

-15508 INC 89.63, AZM 90.47, TVD 6311.92

-15550 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 frags; tr bent sme w/dissm pyr; bri cut flor, mod bri lt blu res cut

-15600 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 frags; tr bent sme w/dissm pyr; bri cut flor, mod bri lt blu res cut

-15599 INC 90.57, AZM 89.65, TVD 6311.76

-15610 WT 9.2, VIS 30

-15650 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 frags; tr bent sme w/dissm pyr; bri cut flor, mod bri lt blu res cut

0 6500

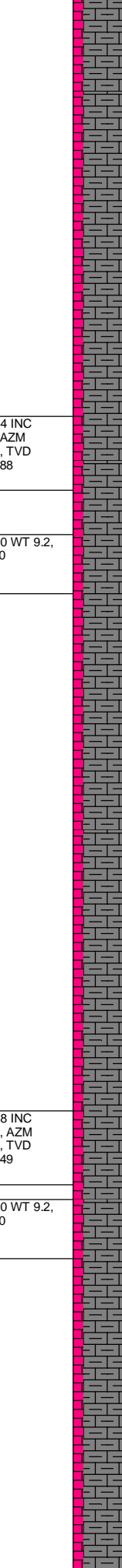
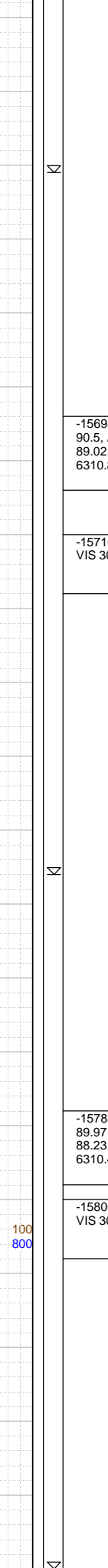
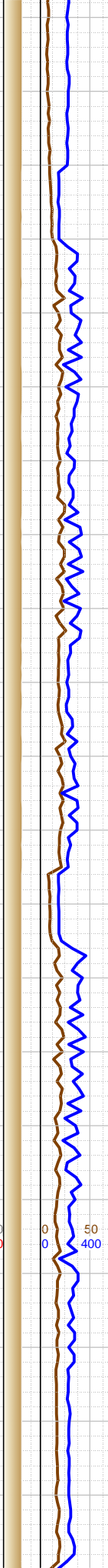
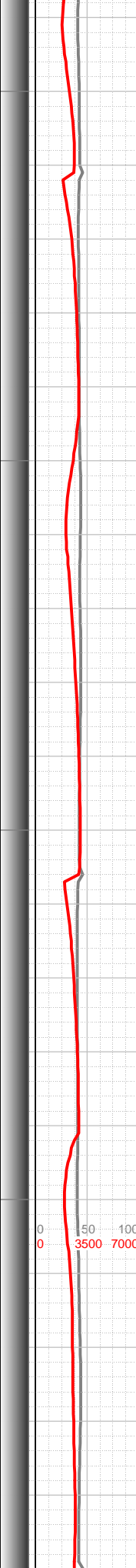
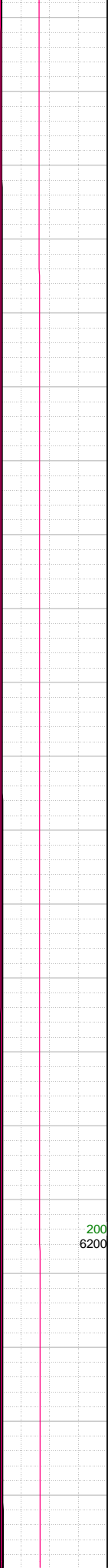
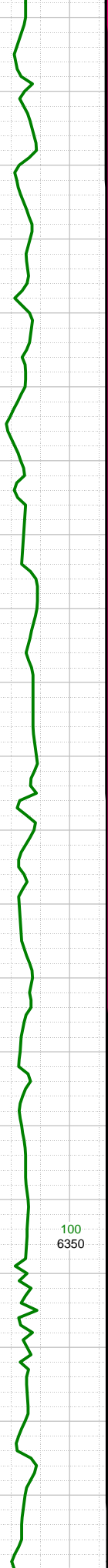
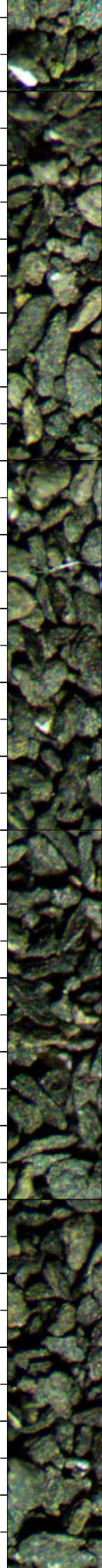
100 6350

200 6200

0 50 100
0 3500 7000

0 50 100
0 400 800

-15640
-15650
-15660
-15670
-15680
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-15700
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-15740
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-15820
-15830
-15840
-15850



-15700 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; frq forams; frq fos frags; tr bent sme w/dissm pyr; bri cut flor, mod bri lt blu res cut

-15694 INC
90.5, AZM
89.02, TVD
6310.88

-15750 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; frq forams; frq fos frags; tr bent sme w/dissm pyr; bri cut flor, mod bri lt blu res cut

-15710 WT 9.2,
VIS 30

-15800 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; frq forams; frq fos frags; tr bent sme w/dissm pyr; bri cut flor, bri lt blu res cut

-15788 INC
89.97, AZM
88.23, TVD
6310.49

-15850 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; frq forams; frq fos frags; tr bent sme w/dissm pyr; bri cut flor, bri lt blu res cut

-15800 WT 9.2,
VIS 30

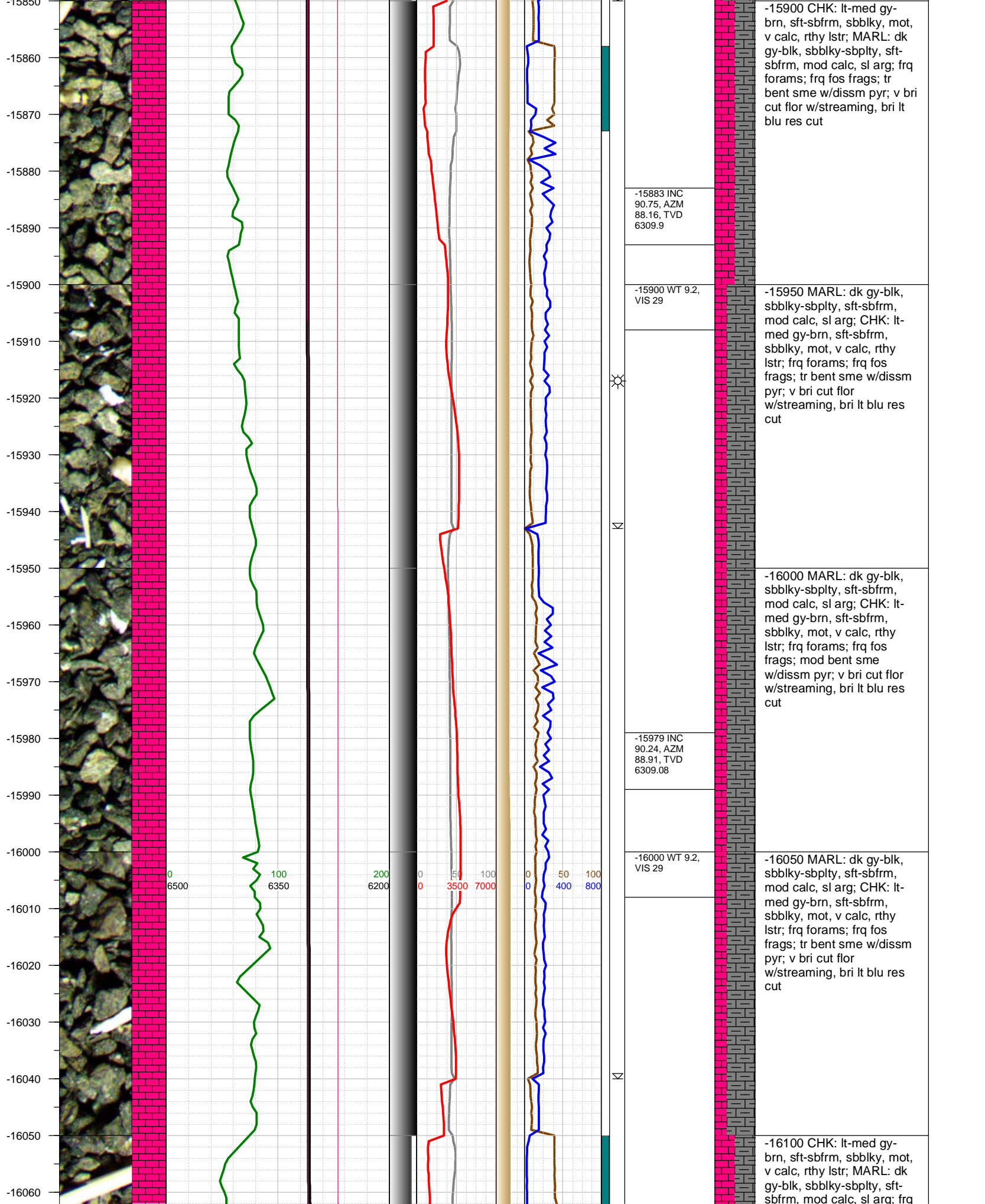
0
6500

100
6350

200
6200

0 50 100
0 3500 7000

0 50 100
0 400 800



-15900 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 frags; tr bent sme w/dissm pyr; v bri cut flr w/streaming, bri lt blu res cut

-15883 INC
90.75, AZM
88.16, TVD
6309.9

-15900 WT 9.2,
VIS 29

-15950 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 frags; tr bent sme w/dissm pyr; v bri cut flr w/streaming, bri lt blu res cut

-16000 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 frags; mod bent sme w/dissm pyr; v bri cut flr w/streaming, bri lt blu res cut

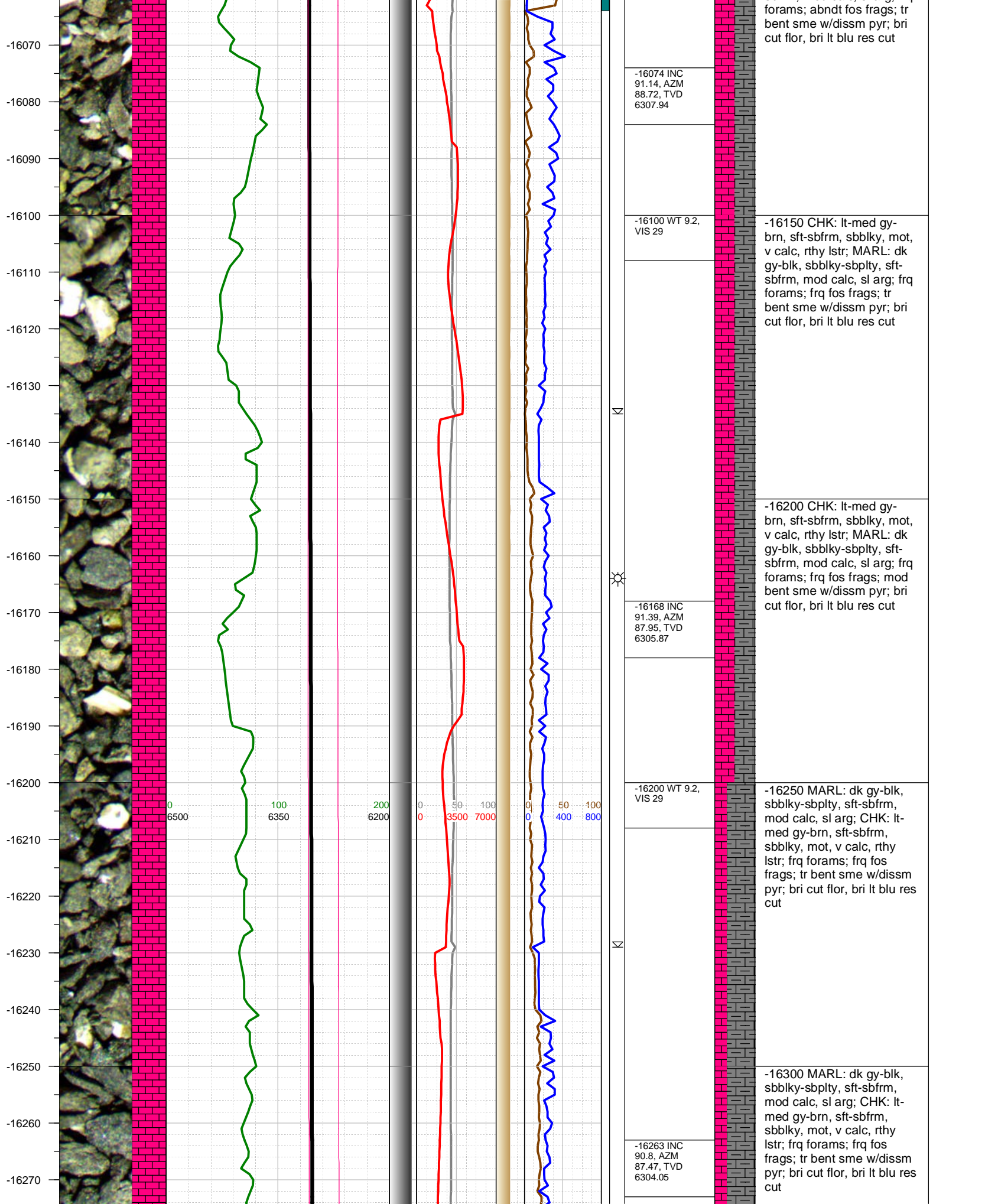
-15979 INC
90.24, AZM
88.91, TVD
6309.08

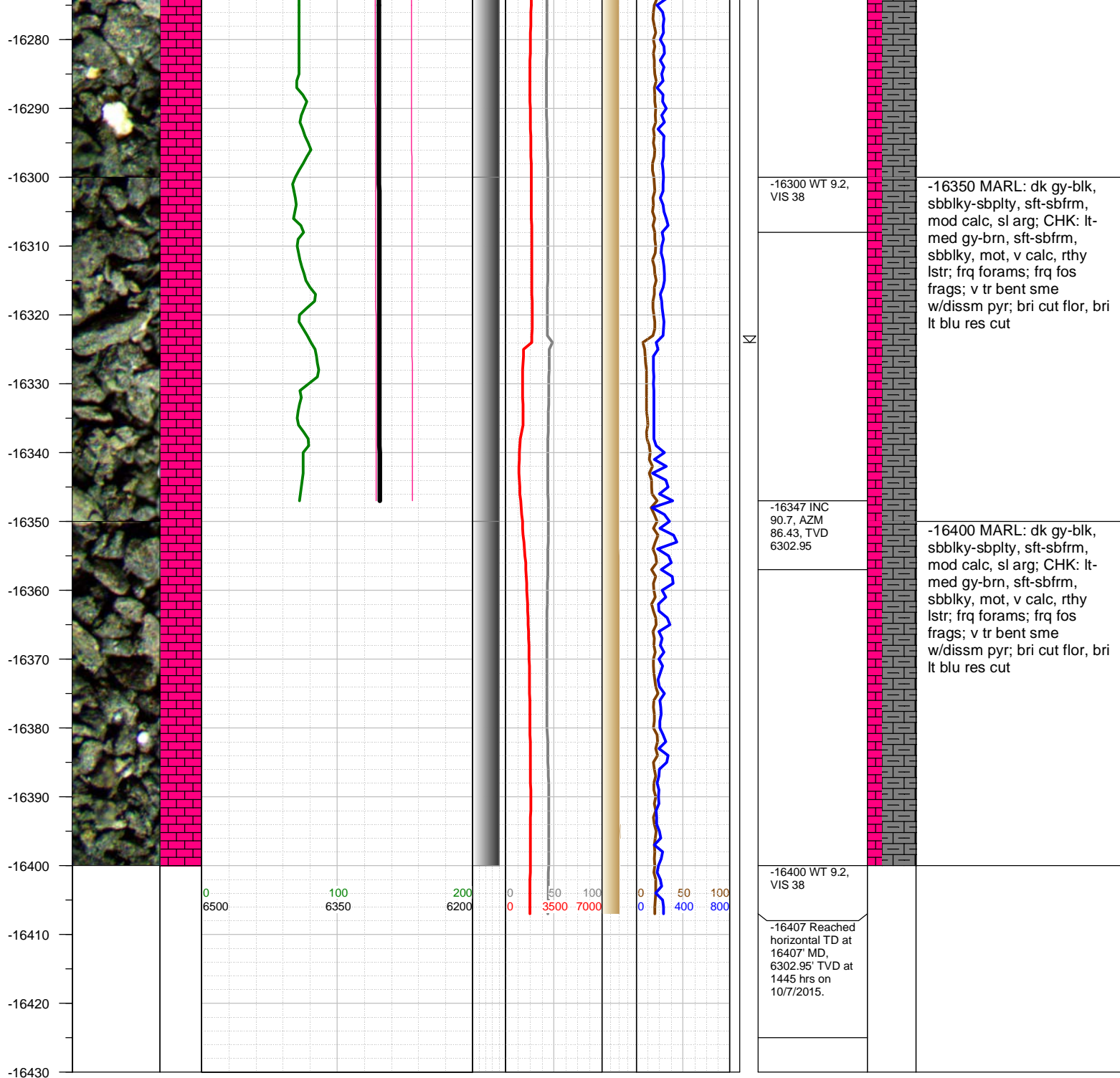
-16000 WT 9.2,
VIS 29

-16050 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 frags; tr bent sme w/dissm pyr; v bri cut flr w/streaming, bri lt blu res cut

-16100 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

0 100 200 0 50 100 0 50 100
6500 6350 6200 0 3500 7000 0 400 800





TOTAL DEPTH = 16407'

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