

OPERATOR: **Bill Barrett Corp**

WELL NAME: **Anschutz Equus Farms 4-62-09-4956C2**

FIELD NAME: Wattenberg

DRILLING RIG: Cade 24

API #: 05-123-42156



Earth Science Agency, LLC

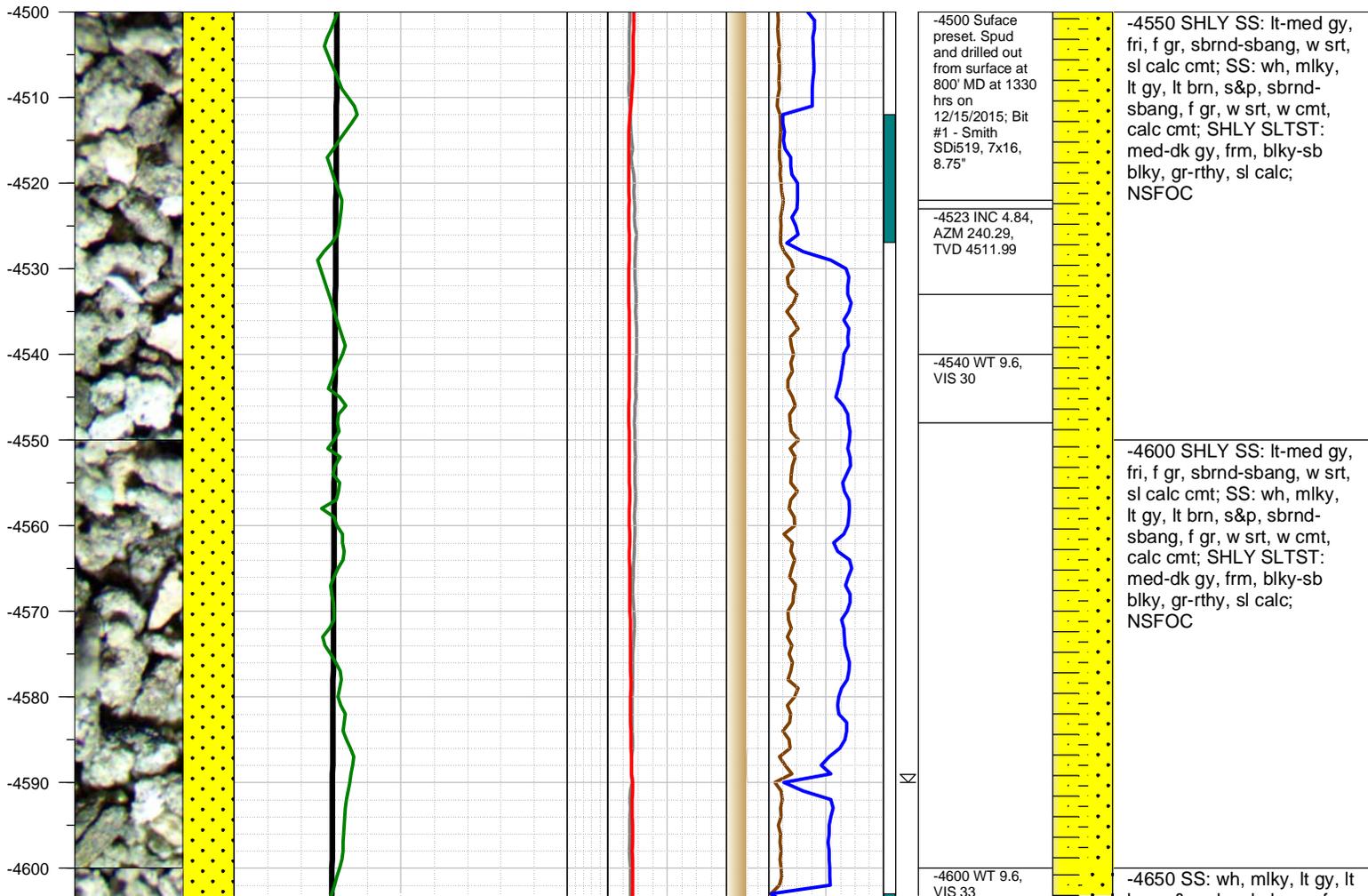
COUNTY: Weld  
 STATE: Colorado  
 GROUND ELEVATION: 4526'  
 KELLY BUSHING: 4542'  
 DRILLING FLUID: LSND  
 TVD VS. MD: 6229' / 15974'  
 SPUD DATE: December 15, 2015  
 BEGIN LOGGING: 4500'; December 15, 2015  
 TD DATE: December 22, 2015  
 DATES LOGGED: December 15, 2015 - December 22, 2015  
 DEPTHS LOGGED: 4500' - 15974'  
 LOGGER: Blue Spikes, Tyson Barnes

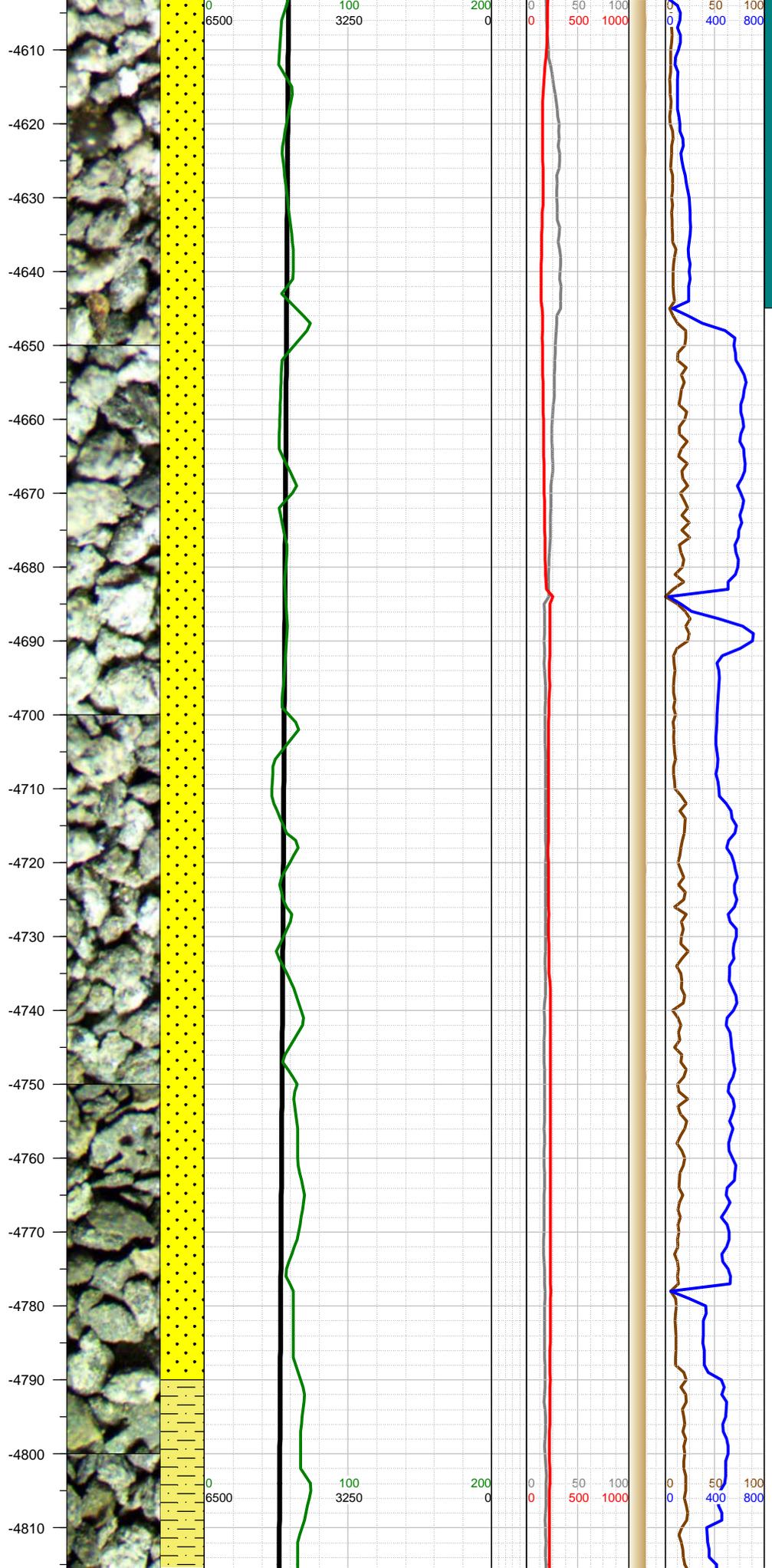
**LEGEND**

	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	MUDLOGGER INTERP	GEOSTEERING INTERP		OIL SHOWS	MUD VOL. - 800 bbl	ROD	COMMENTS	CUTTINGS %	SAMPLE DESCRIPTION
			TARGET TOP & BASE							
			TVD	ft	0	0	0			
			GAMMA	api	0	0	0			
					0	0	0			
					0	0	0			





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, blk-y-sb blk-y, gr-rthy, sl calc; NSFOC

-4617 INC 5.28, AZM 231.41, TVD 4605.62

-4700 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, blk-y-sb blk-y, gr-rthy, sl calc; NSFOC

-4700 WT 9.6, VIS 33

-4711 INC 5.28, AZM 222.19, TVD 4699.23

-4750 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; SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; NSFOC

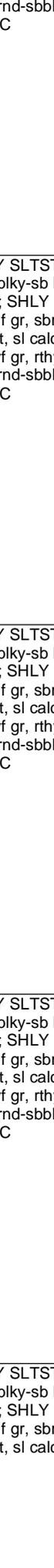
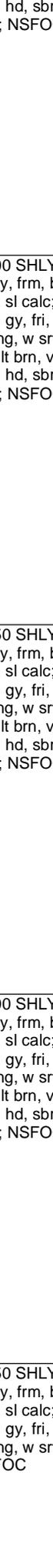
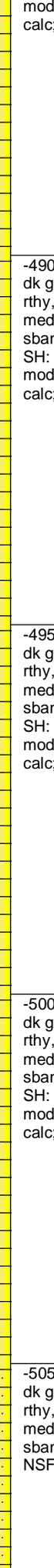
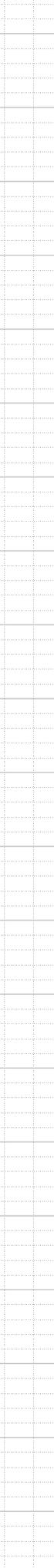
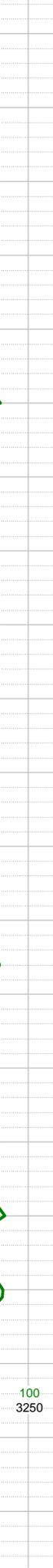
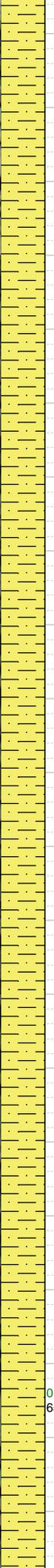
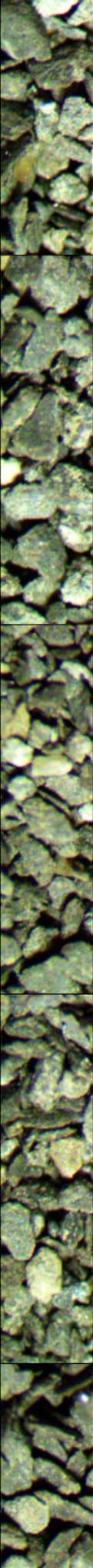
-4800 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; SH: lt brn, vf gr, rthy, sft-mod hd, sbrnd-sbblk-y, sl calc; NSFOC

◀ -4790 Top Shannon Formation; 4778' TVD

-4806 INC 4.31, AZM 212.25, TVD 4793.9

-4850 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-

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-4990  
-5000  
-5010  
-5020



-4820 WT 9.6,  
VIS 32

-4900 INC 3.34,  
AZM 215.42,  
TVD 4887.69

-4910 WT 9.6,  
VIS 32

-4994 INC 2.37,  
AZM 203.55,  
TVD 4981.57

-5010 WT 9.6,  
VIS 33

mod hd, sbrnd-sbblky, sl  
calc; NSFOC

-4900 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-sbblky, sl  
calc; NSFOC

-4950 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-sbblky, sl  
calc; NSFOC

-5000 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-sbblky, sl  
calc; NSFOC

-5050 SHLY SLTST: med-  
dk gy, frm, blk-sb blk, gr-  
rthy, sl calc; SHLY SS: lt-  
med gy, fri, f gr, sbrnd-  
sbang, w srt, sl calc cmt;  
NSFOC

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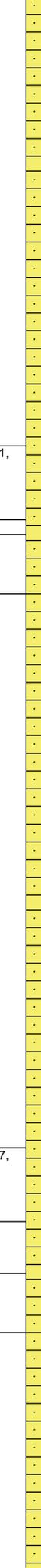
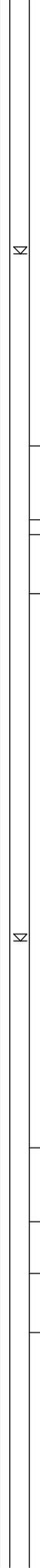
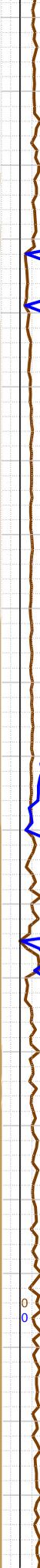
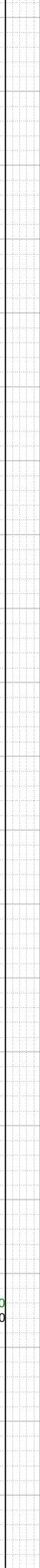
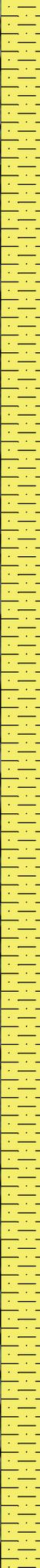
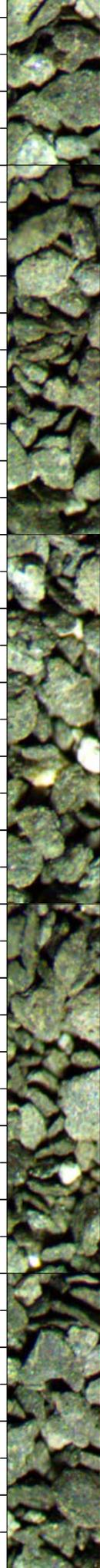
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-5240



-5088 INC 2.11,  
AZM 196.79,  
TVD 5075.5

-5100 WT 9.6,  
VIS 33

-5183 INC 1.67,  
AZM 196.43,  
TVD 5170.44

-5200 WT 9.6,  
VIS 33

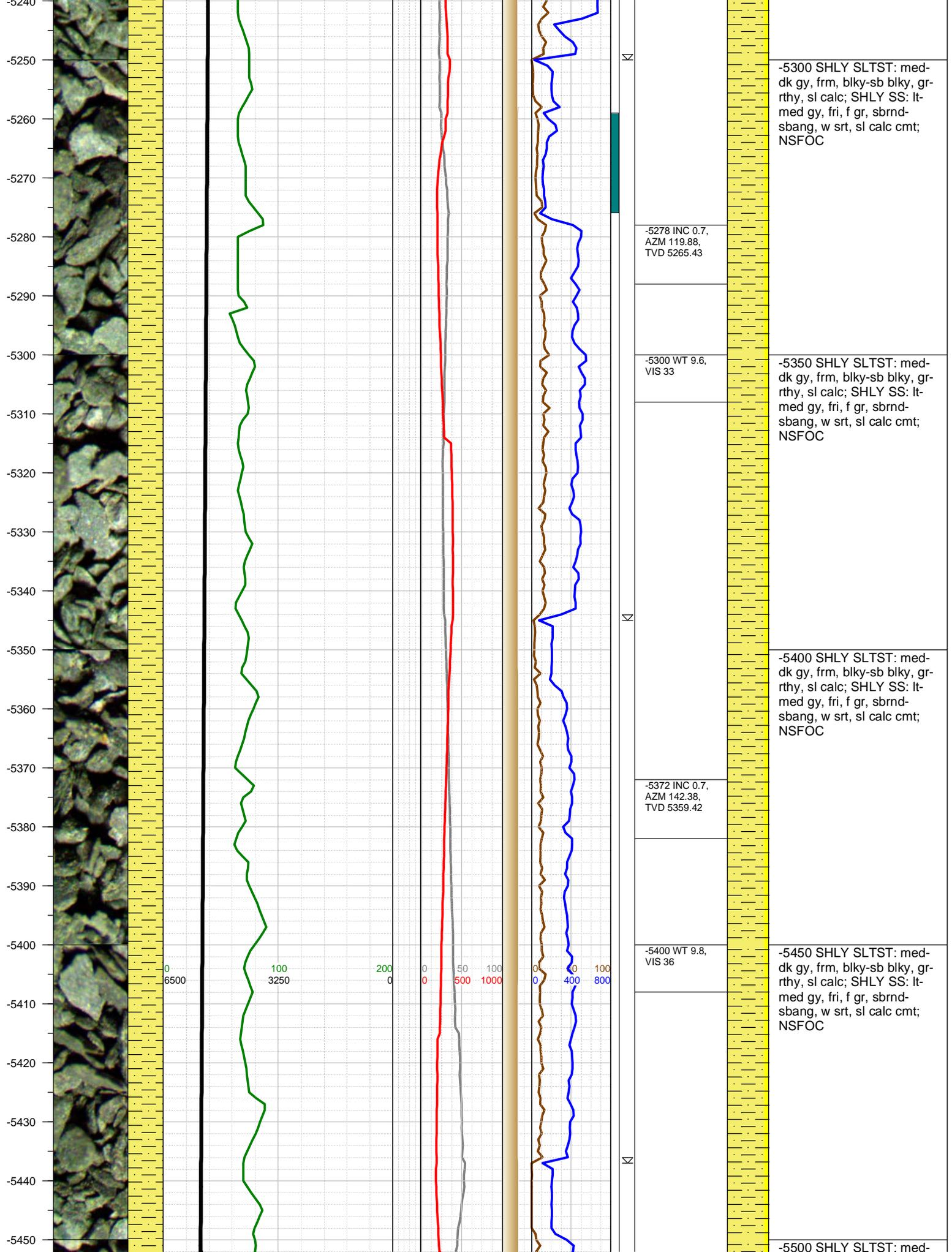
-5100 SHLY SLTST: med-  
dk gy, frm, blk-y-sb blk-y, gr-  
rthy, sl calc; SHLY SS: lt-  
med gy, fri, f gr, sbrnd-  
sbang, w srt, sl calc cmt;  
NSFOC

-5150 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

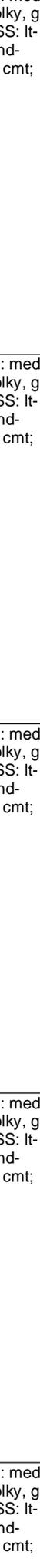
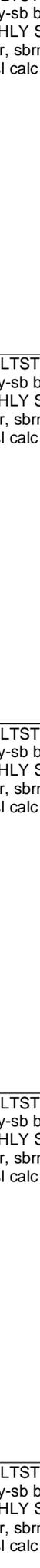
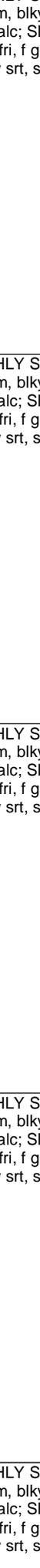
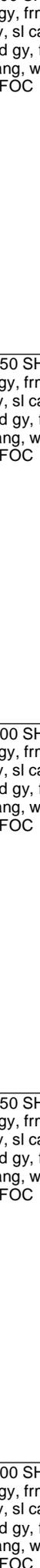
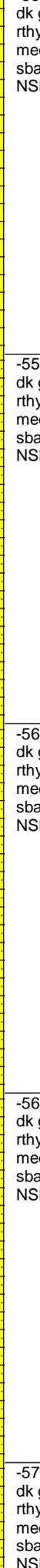
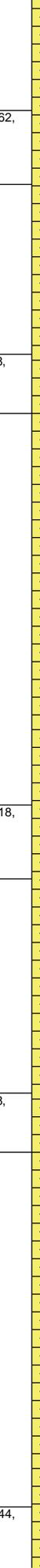
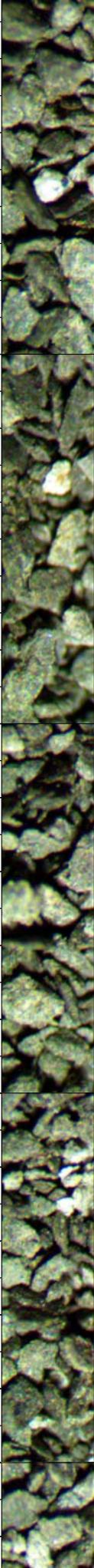
-5200 SHLY SLTST: med-  
dk gy, frm, blk-y-sb blk-y, gr-  
rthy, sl calc; NSFOC

-5250 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

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



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-5660



-5467 INC 0.62,  
AZM 152.14,  
TVD 5454.41

-5500 WT 9.8,  
VIS 36

-5561 INC 0.18,  
AZM 145.02,  
TVD 5548.41

-5600 WT 9.8,  
VIS 36

-5656 INC 0.44,  
AZM 179.65,  
TVD 5643.41

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

-5550 SHLY SLTST: med-  
dk gy, frm, blk-sb blk, gr-  
rthy, sl calc; SHLY SS: lt-  
med gy, fri, f gr, sbrnd-  
sbang, w srt, sl calc cmt;  
NSFOC

-5600 SHLY SLTST: med-  
dk gy, frm, blk-sb blk, gr-  
rthy, sl calc; SHLY SS: lt-  
med gy, fri, f gr, sbrnd-  
sbang, w srt, sl calc cmt;  
NSFOC

-5650 SHLY SLTST: med-  
dk gy, frm, blk-sb blk, gr-  
rthy, sl calc; SHLY SS: lt-  
med gy, fri, f gr, sbrnd-  
sbang, w srt, sl calc cmt;  
NSFOC

-5700 SHLY SLTST: med-  
dk gy, frm, blk-sb blk, gr-  
rthy, sl calc; SHLY SS: lt-  
med gy, fri, f gr, sbrnd-  
sbang, w srt, sl calc cmt;  
NSFOC

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500

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1000

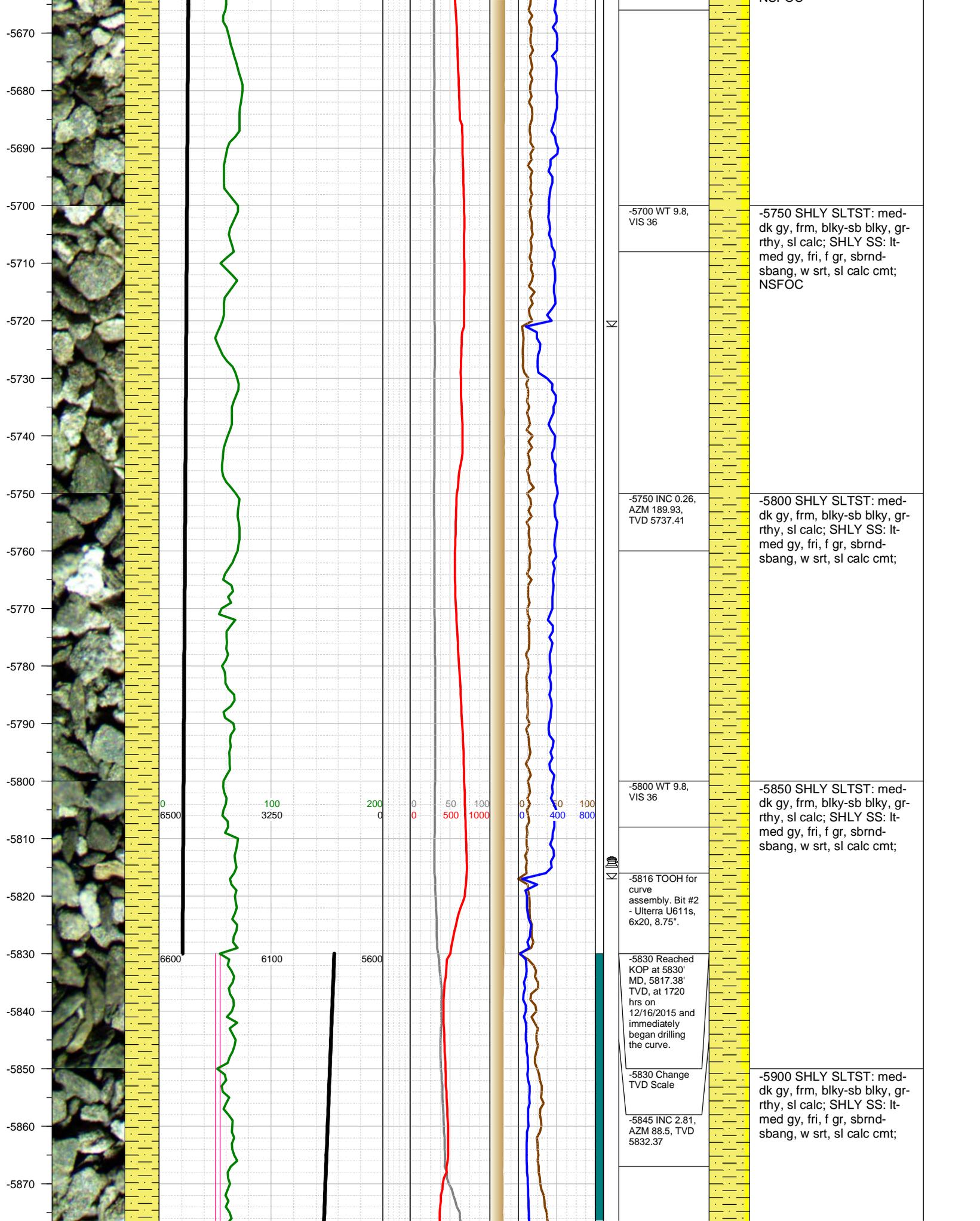
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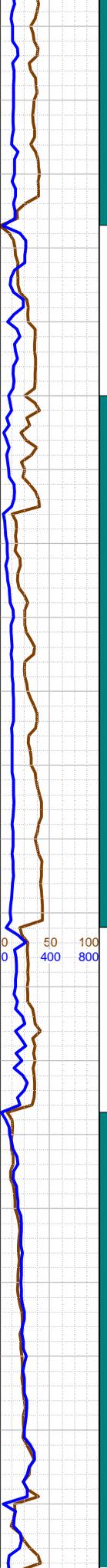
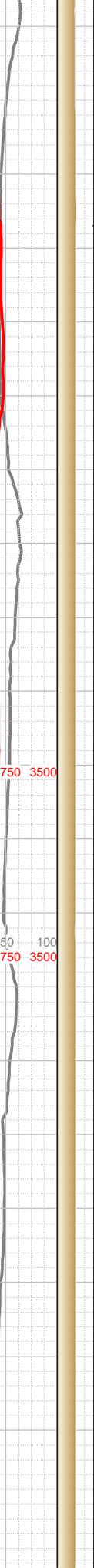
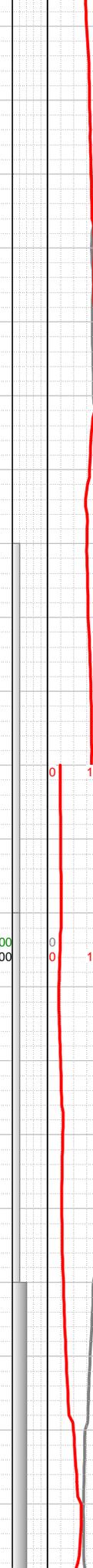
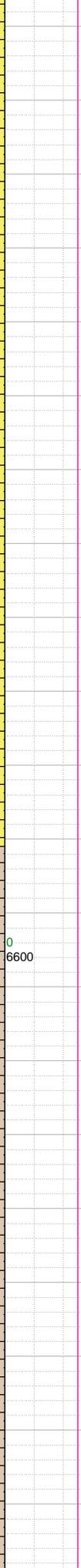
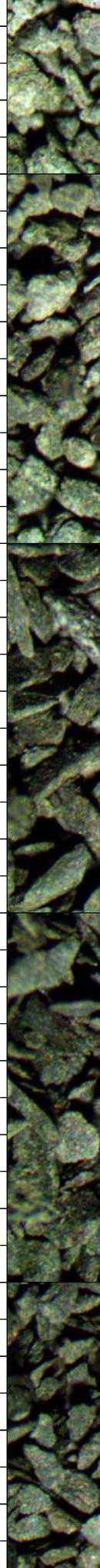
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-6080



-5900 WT 9.9,  
VIS 34

-5940 INC  
11.78, AZM  
89.03, TVD  
5926.51

-5980 Change  
TGas Scale

-5991 Top  
Sharon Springs  
Formation;  
5975' TVD

-6010 WT 9.9,  
VIS 34

-6035 INC  
21.63, AZM  
81.91, TVD  
6017.39

-5950 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;

-6000 SLTY SH: med-dk  
gy, sbfrm-frm, sbply-pty,  
lam, fis, arg, sl calc; SHLY  
SLTST: med gy, frm, blkly-  
sb blkly, gr-rthy, sl calc; fnt  
cut flor

-6050 SLTY SH: med-dk  
gy, sbfrm-frm, sbply-pty,  
lam, fis, arg, sl calc; tr bent;  
fnt cut flor

-6100 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; SLTY SH:  
med-dk gy, sbfrm-frm,  
sbply-pty, lam, fis, arg, sl  
calc; mod bent; fair cut flor;  
dull lt blu res cut

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6600

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5600

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1750

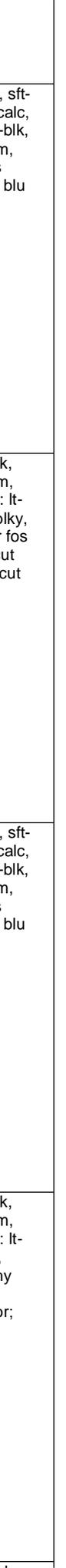
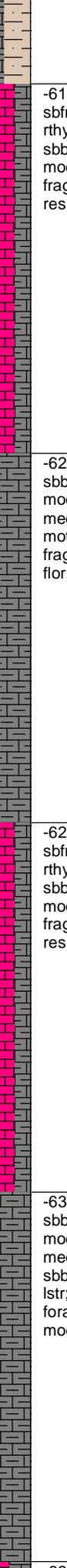
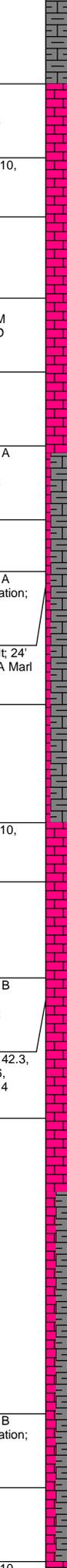
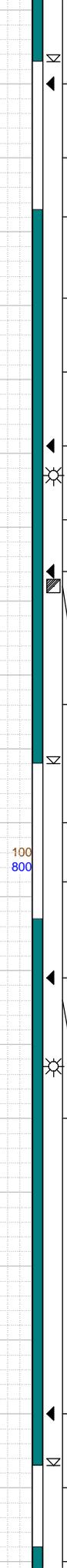
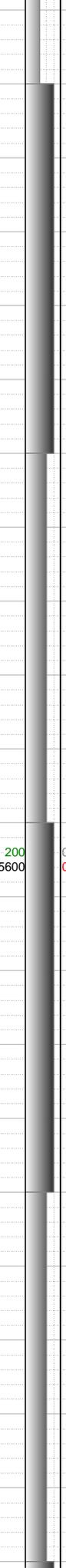
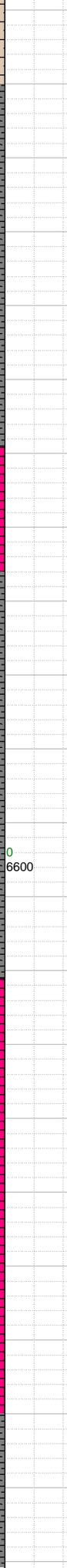
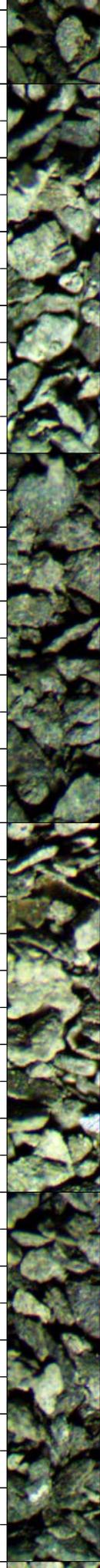
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-6100 Top Niobrara Formation; 6075' TVD  
-6110 WT 10, VIS 33

-6129 INC 32.45, AZM 84.81, TVD 6101

-6149 Top A Chalk Formation; 6117' TVD

-6166 Top A Marl Formation; 6130' TVD

-6168 Fault; 24' up-throw, A Marl to A Marl

-6200 WT 10, VIS 33

-6221 Top B Chalk Formation; 6174' TVD

-6224 INC 42.3, AZM 85.96, TVD 6176.4

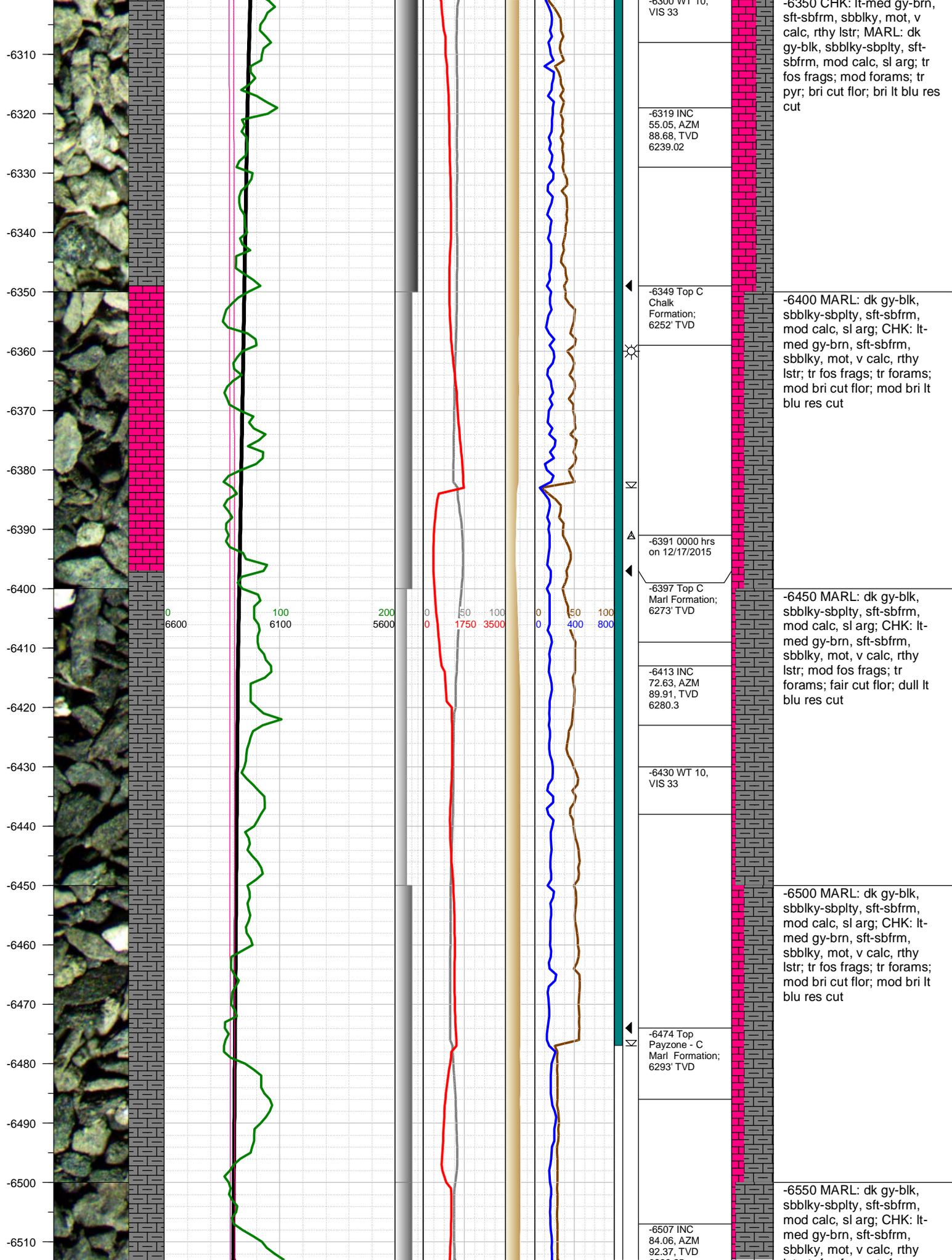
-6280 Top B Marl Formation; 6213' TVD

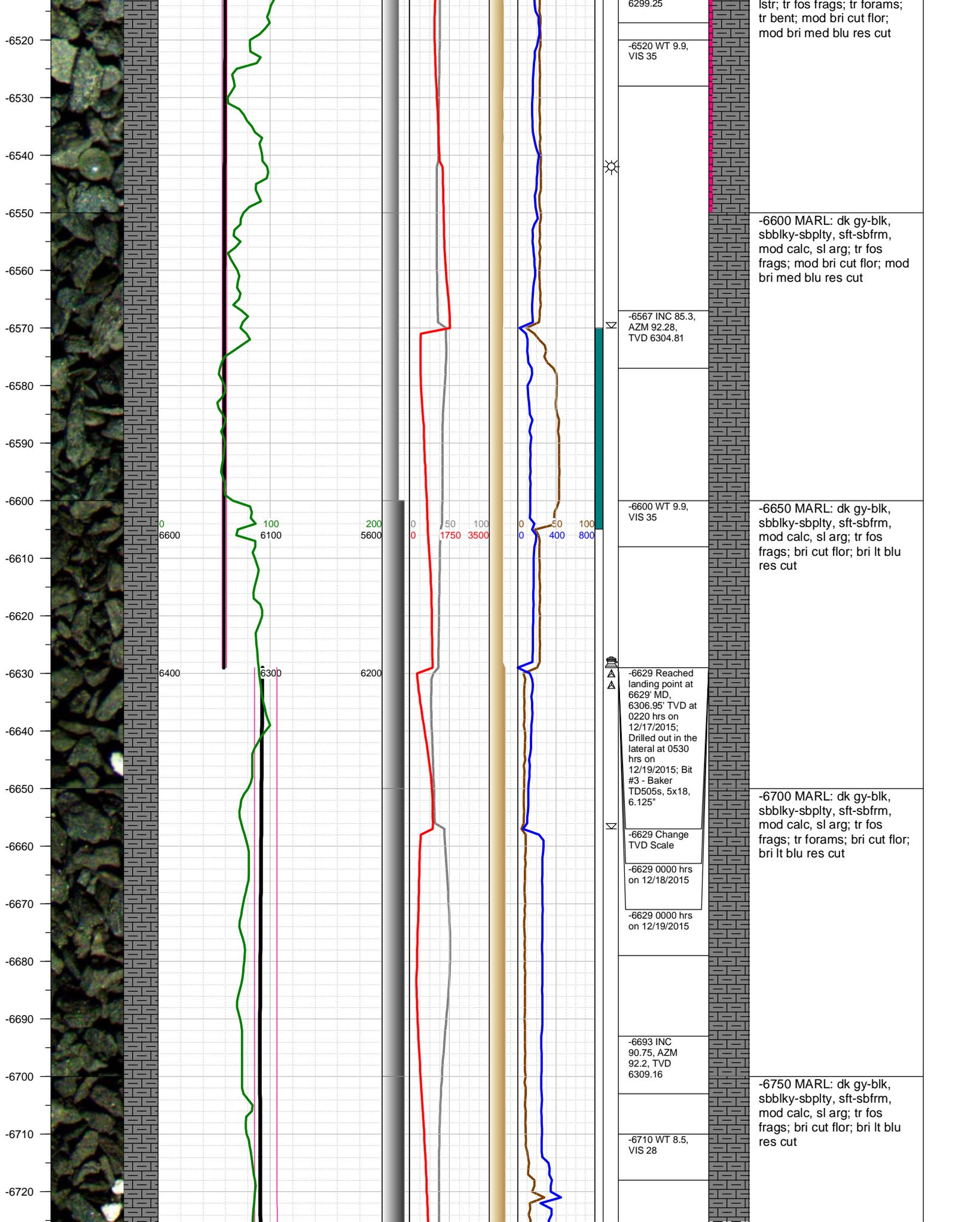
-6150 CHK: lt-med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; bri cut flor; bri lt blu res cut

-6200 MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg, CHK: lt-med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; tr fos frags, tr pyr; mod bri cut flor; mod bri lt blu res cut

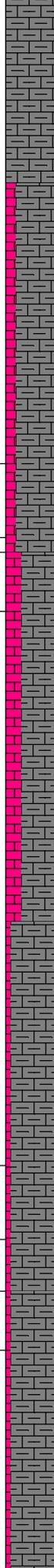
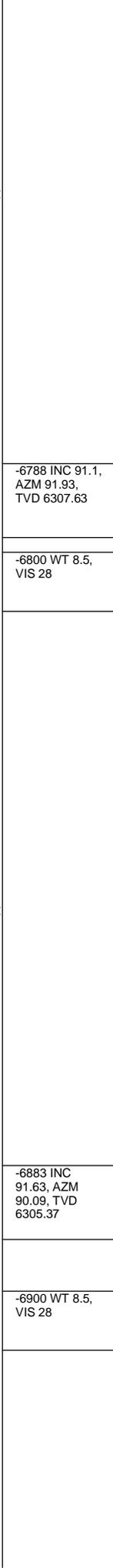
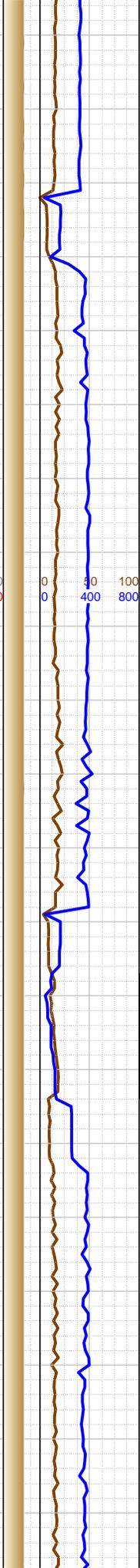
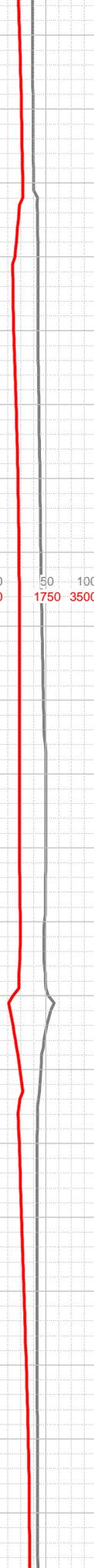
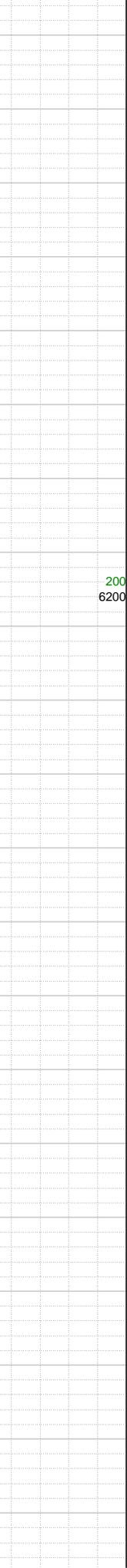
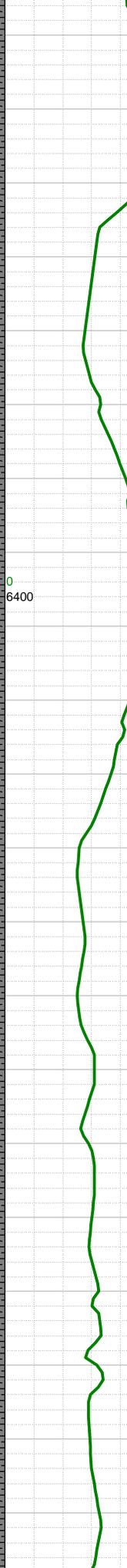
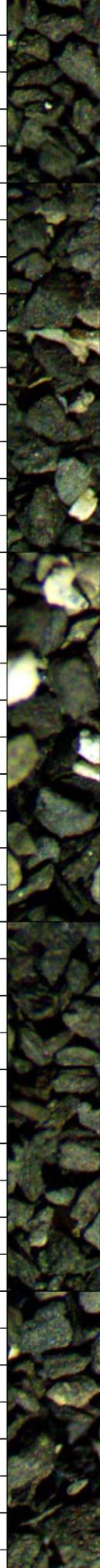
-6250 CHK: lt-med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; bri cut flor; bri lt blu res cut

-6300 MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; tr fos frags; mod forams; mod bri cut flor; mod bri lt blu res cut





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-6800 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; tr fos frags; mod bri cut flor; mod bri med blu res cut

-6788 INC 91.1, AZM 91.93, TVD 6307.63

-6800 WT 8.5, VIS 28

-6850 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; tr fos frags; tr forams; mod bri cut flor; mod bri med blu res cut

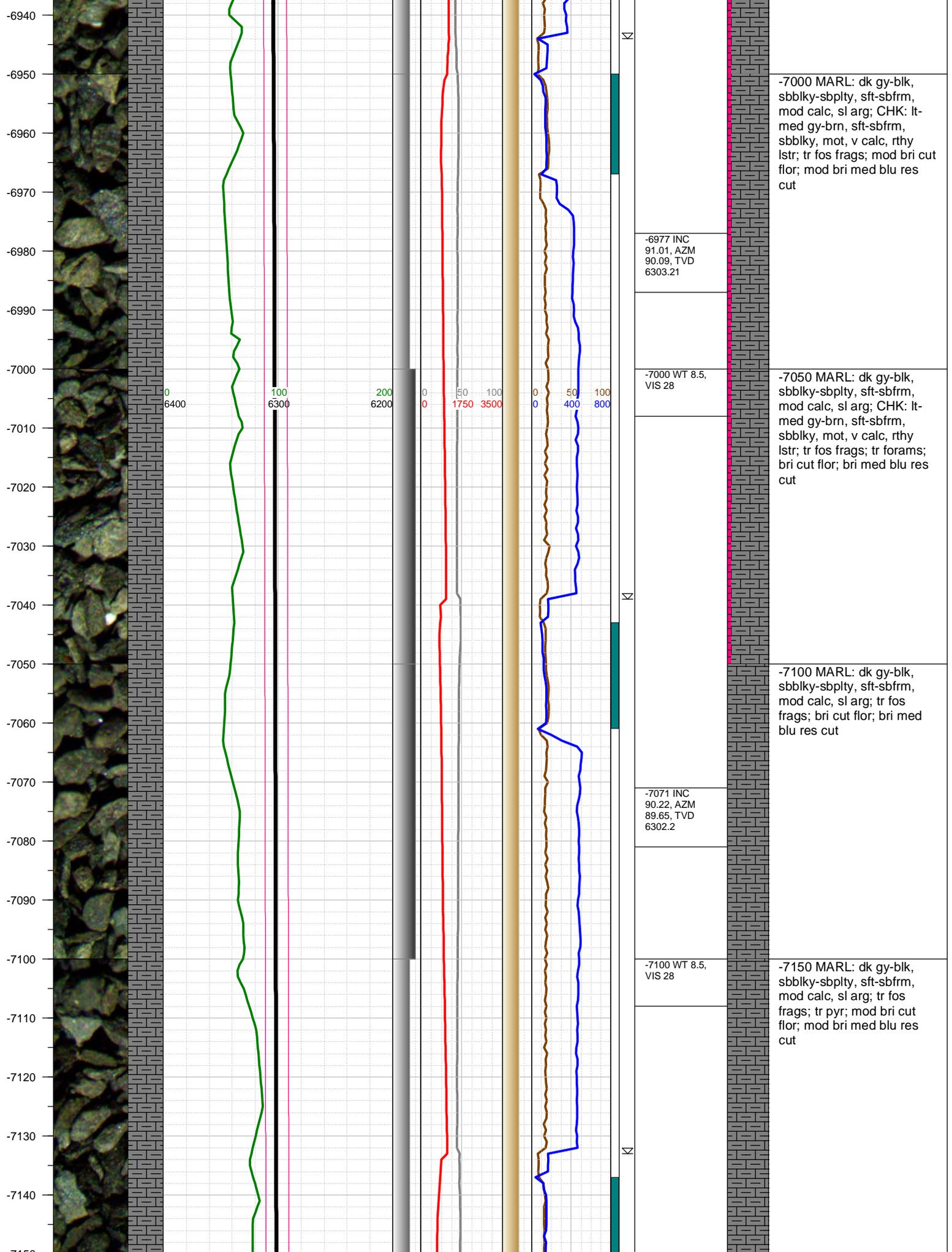
-6900 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr fos frags; mod bri cut flor; mod bri med blu res cut

-6883 INC 91.63, AZM 90.09, TVD 6305.37

-6900 WT 8.5, VIS 28

-6950 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; tr fos frags; mod bri cut flor; mod bri med blu res cut

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6400 6300 6200 0 1750 3500 0 400 800



-7000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr fos frags; mod bri cut flor; mod bri med blu res cut

-6977 INC  
91.01, AZM  
90.09, TVD  
6303.21

-7000 WT 8.5,  
VIS 28

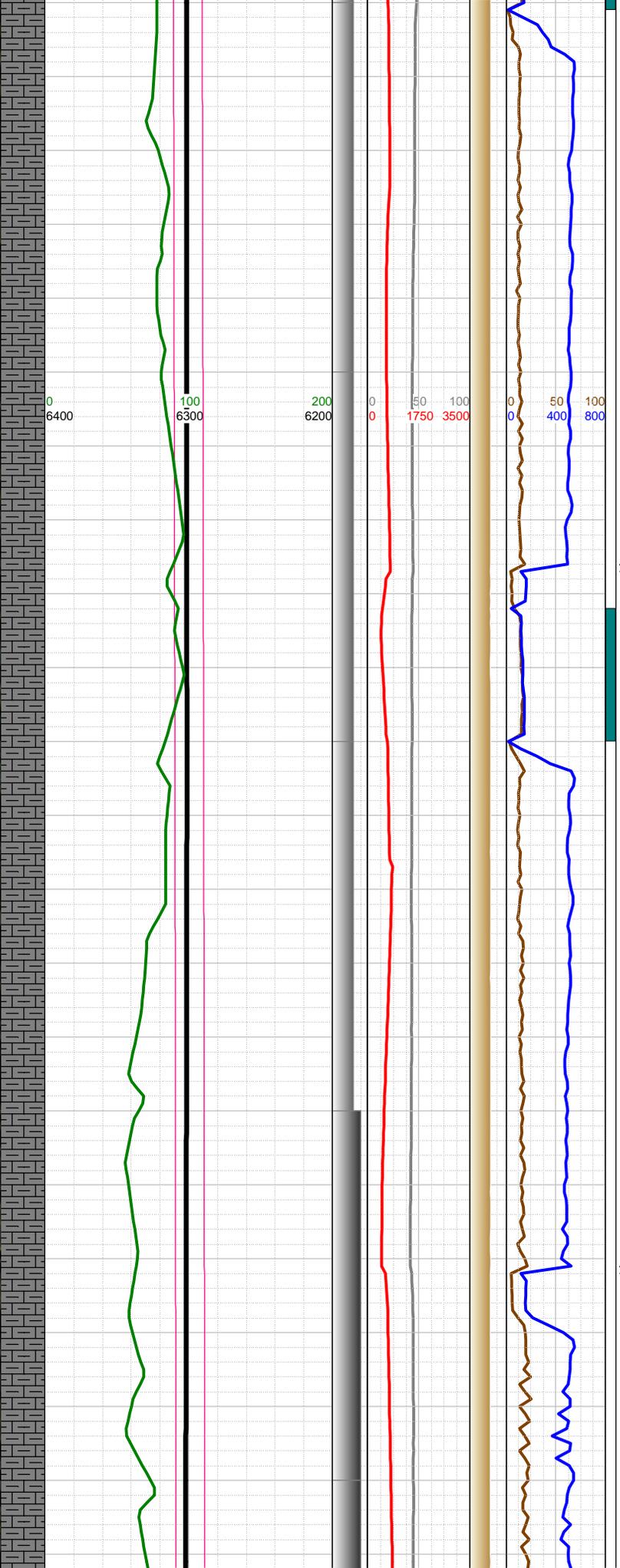
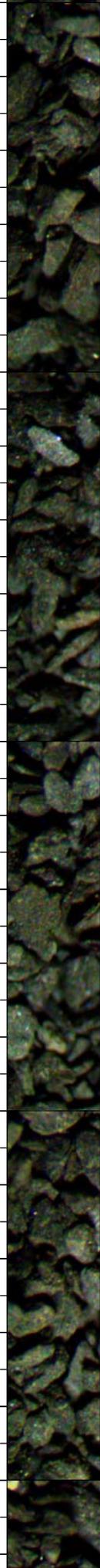
-7050 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr fos frags; tr forams; bri cut flor; bri med blu res cut

-7071 INC  
90.22, AZM  
89.65, TVD  
6302.2

-7100 WT 8.5,  
VIS 28

-7150 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr pyr; mod bri cut flor; mod bri med blu res cut

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-7166 INC  
90.84, AZM 90,  
TVD 6301.32

-7200 WT 8.5,  
VIS 28

-7260 INC  
89.34, AZM  
88.24, TVD  
6301.18

-7300 WT 8.5,  
VIS 28

-7355 INC  
89.69, AZM  
88.15, TVD  
6301.98

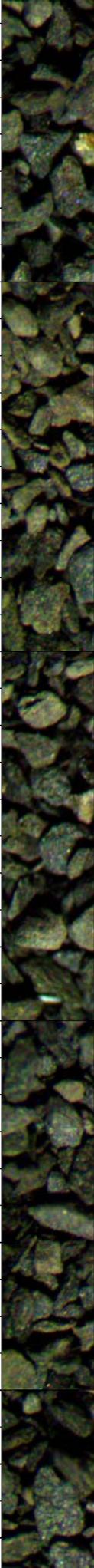
-7200 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; tr pyr; mod bri cut  
flor; mod bri med blu res  
cut

-7250 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri med blu res cut

-7300 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri med blu res cut

-7350 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: lt-  
med gy-brn, sft-sbfrm,  
sbbikv. mot. v calc. rthv

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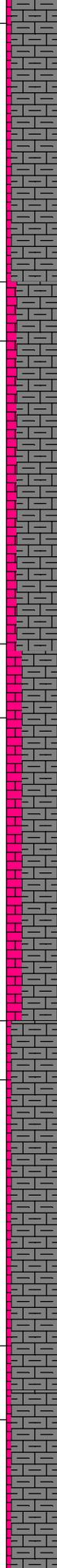
-7400 WT 8.5,  
VIS 28

-7449 INC  
90.22, AZM  
88.5, TVD  
6302.05

-7500 WT 8.5,  
VIS 28

-7544 INC  
90.13, AZM  
88.15, TVD  
6301.76

Σ



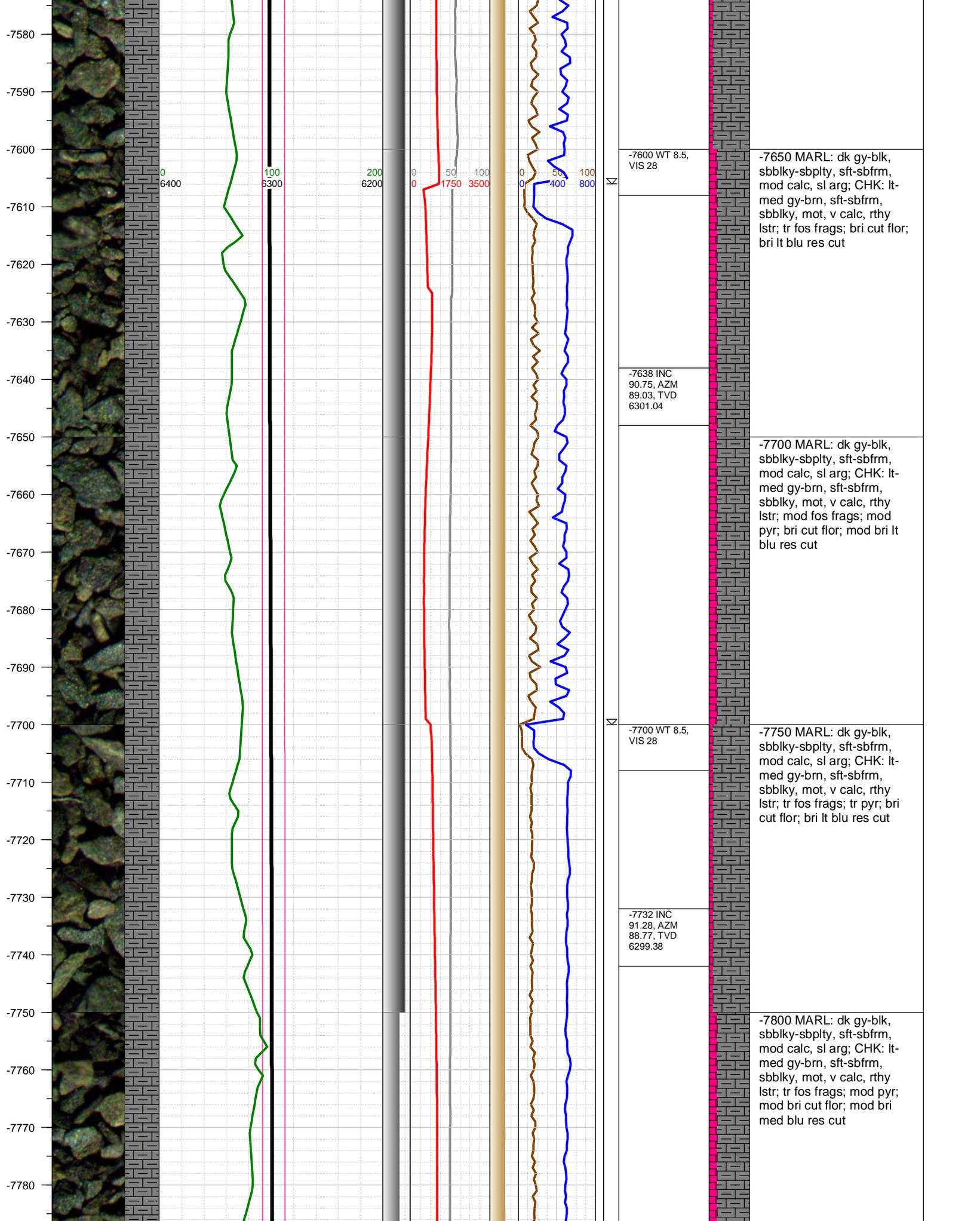
lstr; mod fos frags; mod  
pyr; bri cut flor; bri lt blu res  
cut

-7450 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; tr fos frags; bri cut flor;  
bri lt blu res cut

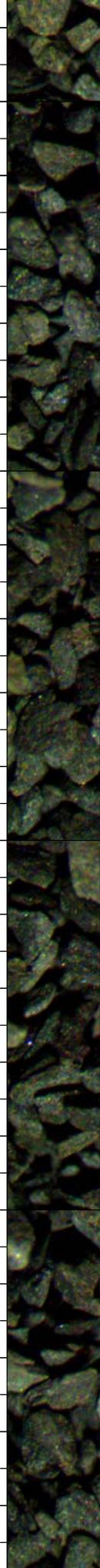
-7500 MARL: dk gy-blk,  
sbbly-sbplty, sft-sbfrm,  
mod calc, sl arg; CHK: lt-  
med gy-brn, sft-sbfrm,  
sbbly, mot, v calc, rthy  
lstr; mod fos frags; tr pyr;  
bri cut flor; bri lt blu res cut

-7550 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; mod fos frags; tr pyr;  
bri cut flor; bri lt blu res cut

-7600 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; mod fos frags; tr pyr;  
bri cut flor; bri med blu res  
cut



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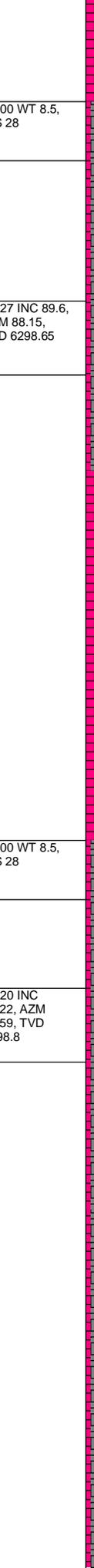
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800



-7800 WT 8.5,  
VIS 28

-7827 INC 89.6,  
AZM 88.15,  
TVD 6298.65

-7900 WT 8.5,  
VIS 28

-7920 INC  
90.22, AZM  
88.59, TVD  
6298.8

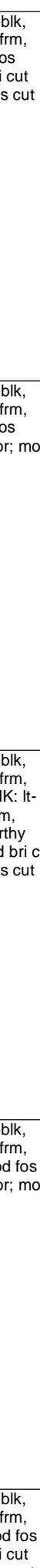
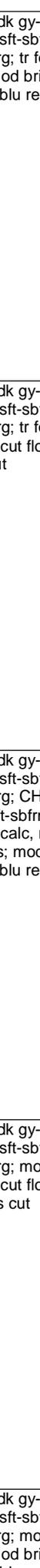
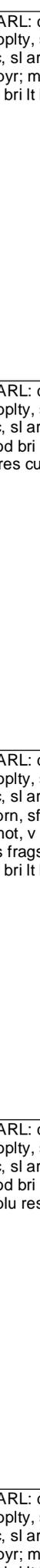
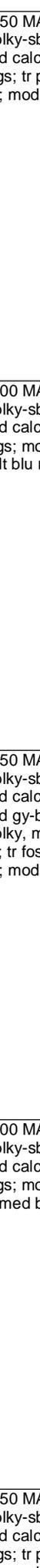
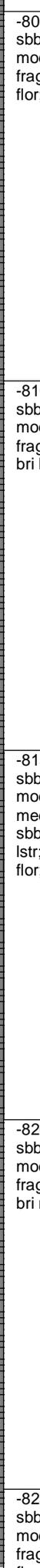
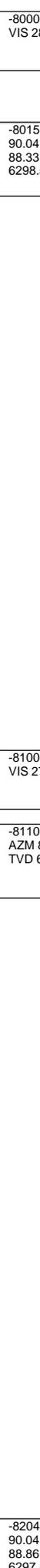
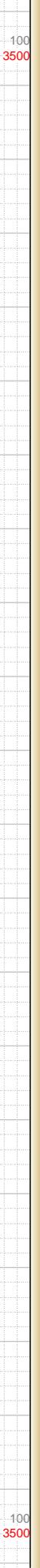
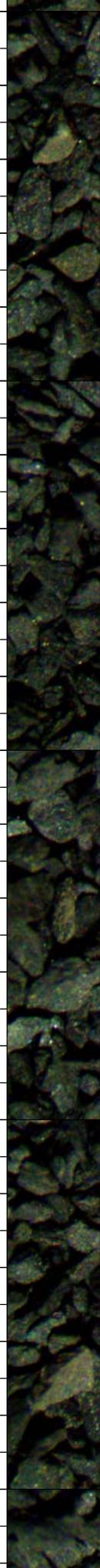
-7850 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: lt-  
med gy-brn, sft-sbfrm,  
sbbly, mot, v calc, rthy  
lstr; tr fos frags; mod bri cut  
flor; mod bri med blu res  
cut

-7900 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; tr fos frags; tr pyr; mod  
bri cut flor; mod bri med  
blu res cut

-7950 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; tr fos frags; mod bri cut  
flor; mod bri lt blu res cut

-8000 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; tr fos frags; mod bri cut  
flor; mod bri lt blu res cut

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-8000 WT 8.5,  
VIS 28

-8015 INC  
90.04, AZM  
88.33, TVD  
6298.58

-8100 WT 8.6,  
VIS 27

-8110 INC 90.4,  
AZM 89.21,  
TVD 6298.21

-8204 INC  
90.04, AZM  
88.86, TVD  
6297.85

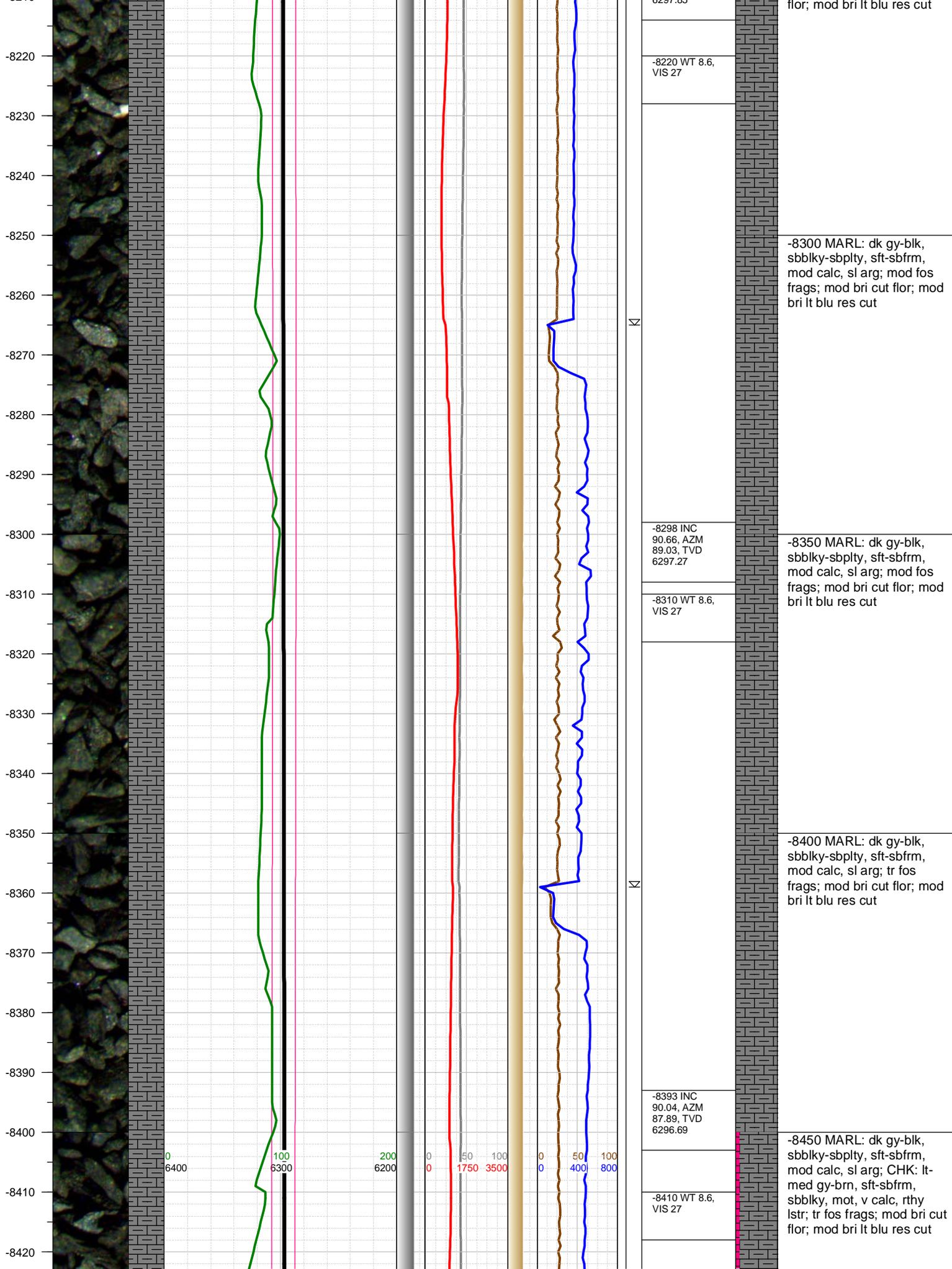
-8050 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; tr pyr; mod bri cut  
flor; mod bri lt blu res cut

-8100 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

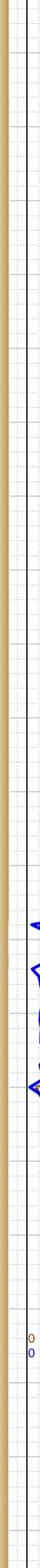
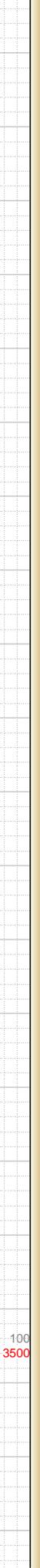
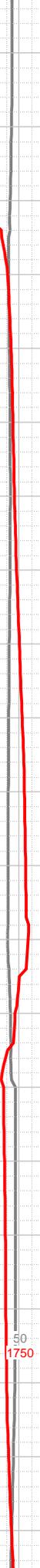
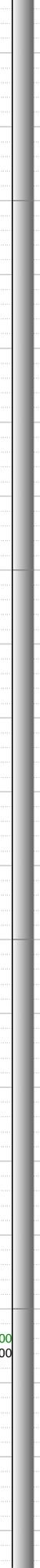
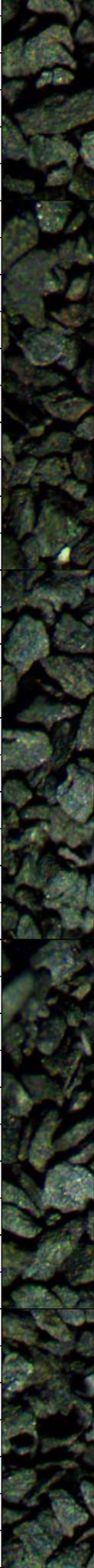
-8150 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: lt-  
med gy-brn, sft-sbfrm,  
sbbly, mot, v calc, rthy  
lstr; tr fos frags; mod bri cut  
flor; mod bri lt blu res cut

-8200 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; mod  
bri med blu res cut

-8250 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; tr pyr; mod bri cut  
flor; mod bri lt blu res cut



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-8486 INC  
89.87, AZM  
88.24, TVD  
6296.76

-8500 WT 8.6,  
VIS 27

-8580 INC 90.4,  
AZM 89.65,  
TVD 6296.55

-8600 WT 8.6,  
VIS 27

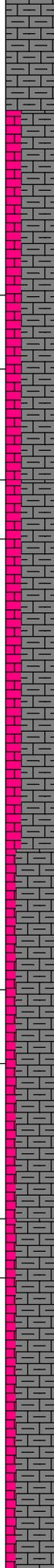
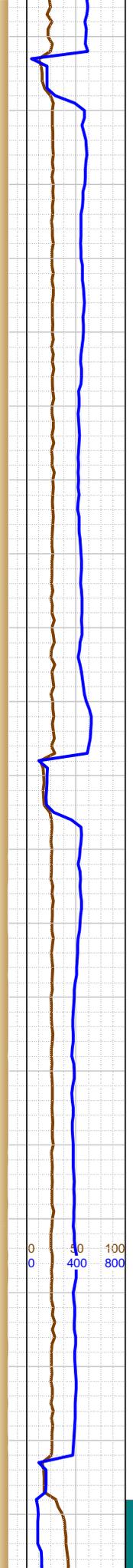
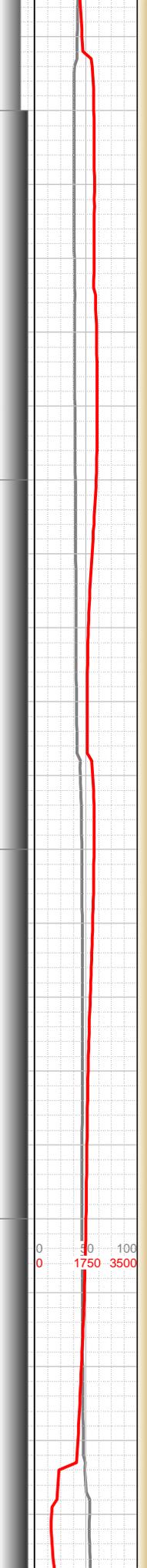
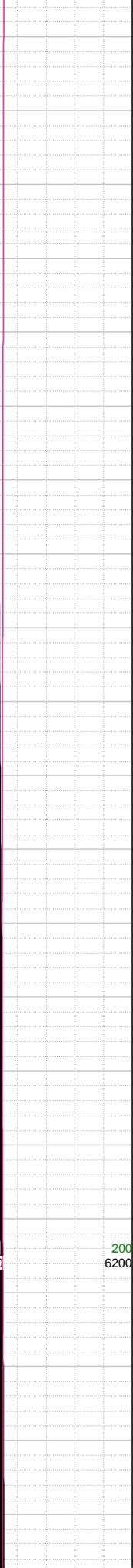
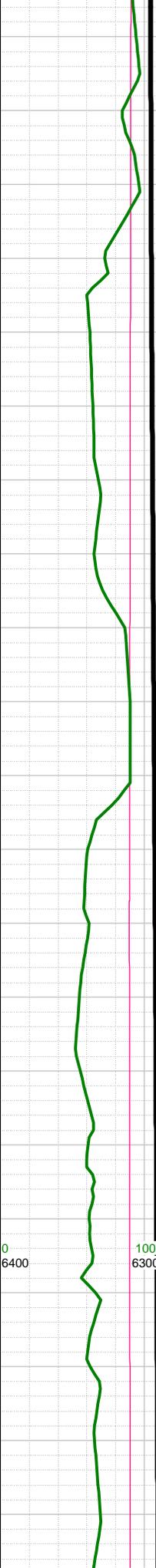
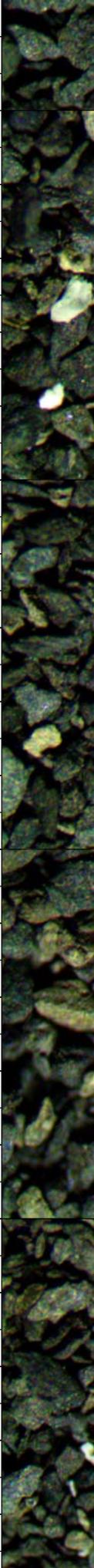
-8500 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr fos frags; mod bri cut flor; mod bri lt blu res cut

-8550 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod fos frags; mod bri cut flor; dull lt blu res cut

-8600 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; mod fos frags; mod bri cut flor; dull lt blu res cut

-8650 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; tr fos frags; mod bri cut flor; dull lt blu res cut

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-8840



-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; mod fos frags; bri cut flor; mod bri lt blu res cut

-8675 INC  
91.45, AZM  
90.61, TVD  
6295.02

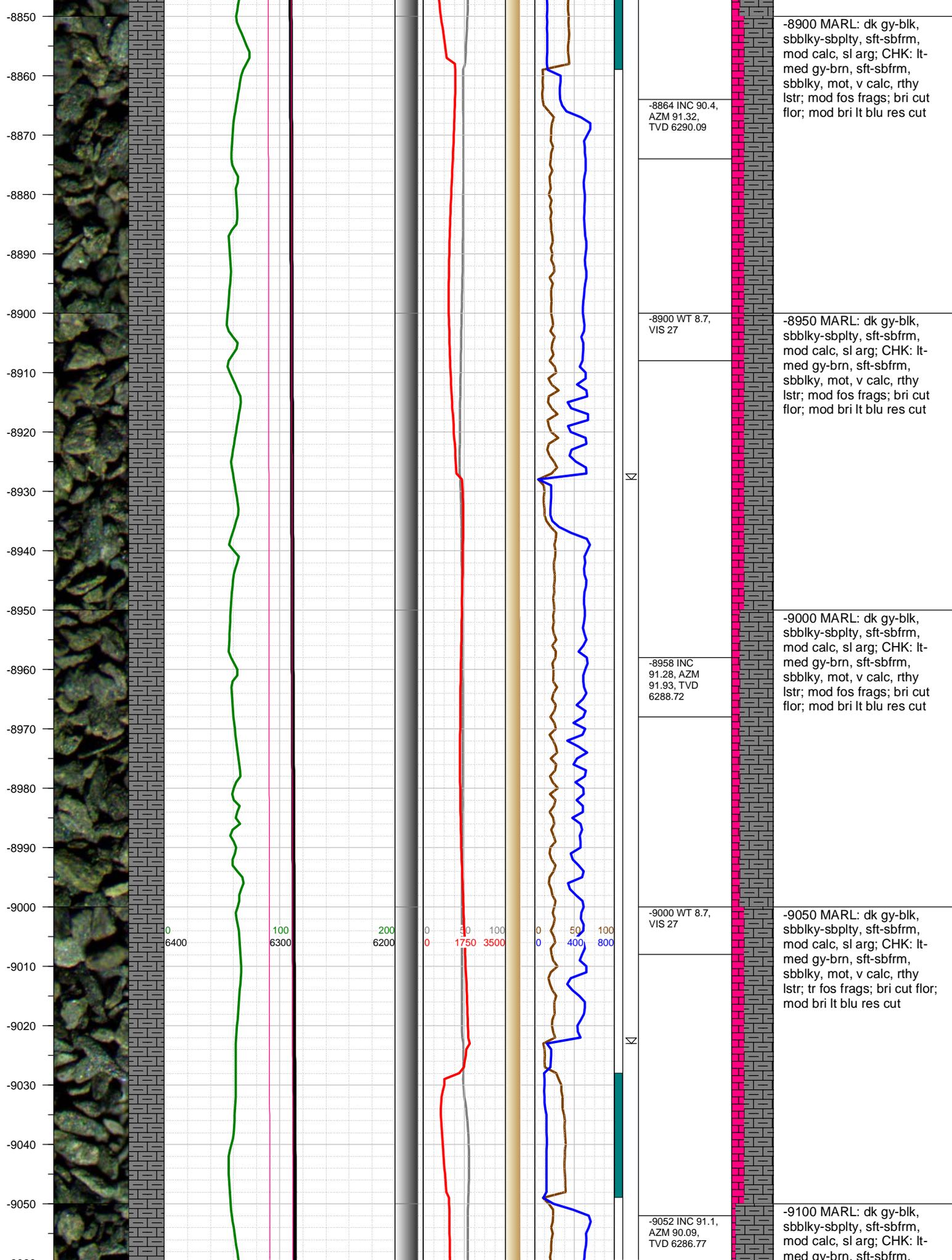
-8700 WT 8.6,  
VIS 27

-8750 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; tr fos frags; bri cut flor; mod bri lt blu res cut

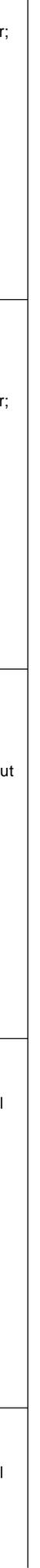
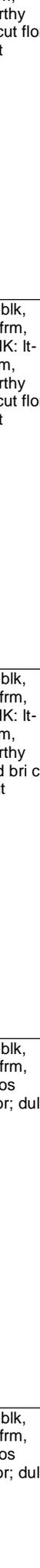
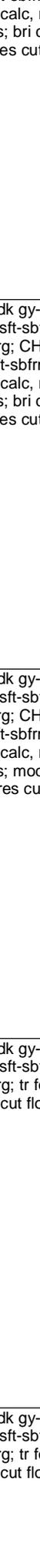
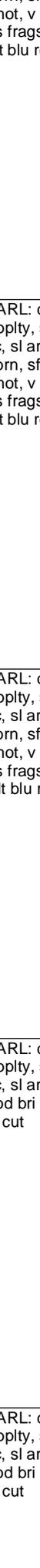
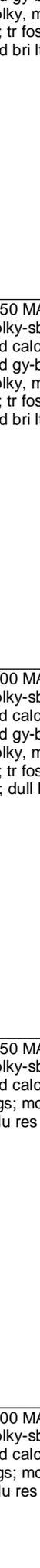
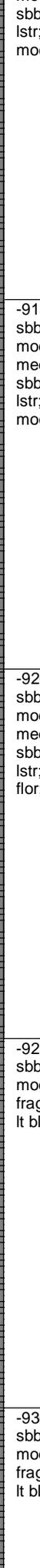
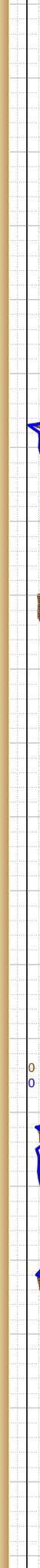
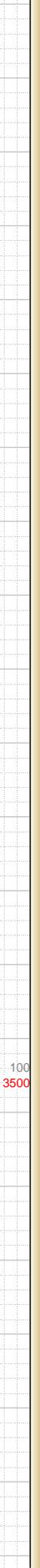
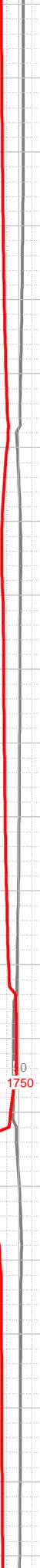
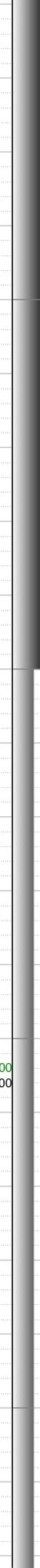
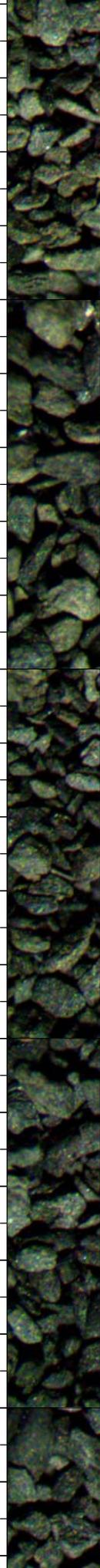
-8769 INC  
92.07, AZM  
91.32, TVD  
6292.13

-8800 WT 8.6,  
VIS 27

-8850 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; mod fos frags; tr forams; bri cut flor; mod bri lt blu res cut



-9060  
-9070  
-9080  
-9090  
-9100  
-9110  
-9120  
-9130  
-9140  
-9150  
-9160  
-9170  
-9180  
-9190  
-9200  
-9210  
-9220  
-9230  
-9240  
-9250  
-9260  
-9270



-9100 WT 8.7,  
VIS 27

-9147 INC  
90.48, AZM  
89.38, TVD  
6285.46

-9200 WT 8.7,  
VIS 27

-9243 INC  
89.69, AZM  
89.03, TVD  
6285.31

sbbly, mot, v calc, rthy  
lstr; tr fos frags; bri cut flor;  
mod bri lt blu res cut

-9150 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; tr fos frags; bri cut flor;  
mod bri lt blu res cut

-9200 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; tr fos frags; mod bri cut  
flor; dull lt blu res cut

-9250 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

-9300 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

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6400

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6300

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6200

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1750

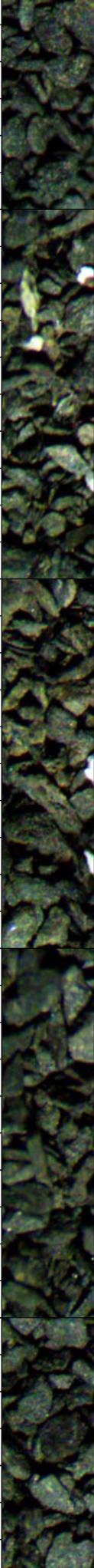
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-9420  
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-9450  
-9460  
-9470  
-9480



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6300



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400

100  
800



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400

100  
800



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0

50  
400

100  
800

-9300 WT 8.7,  
VIS 27

-9337 INC  
90.22, AZM  
89.21, TVD  
6285.38

-9400 WT 8.7,  
VIS 28

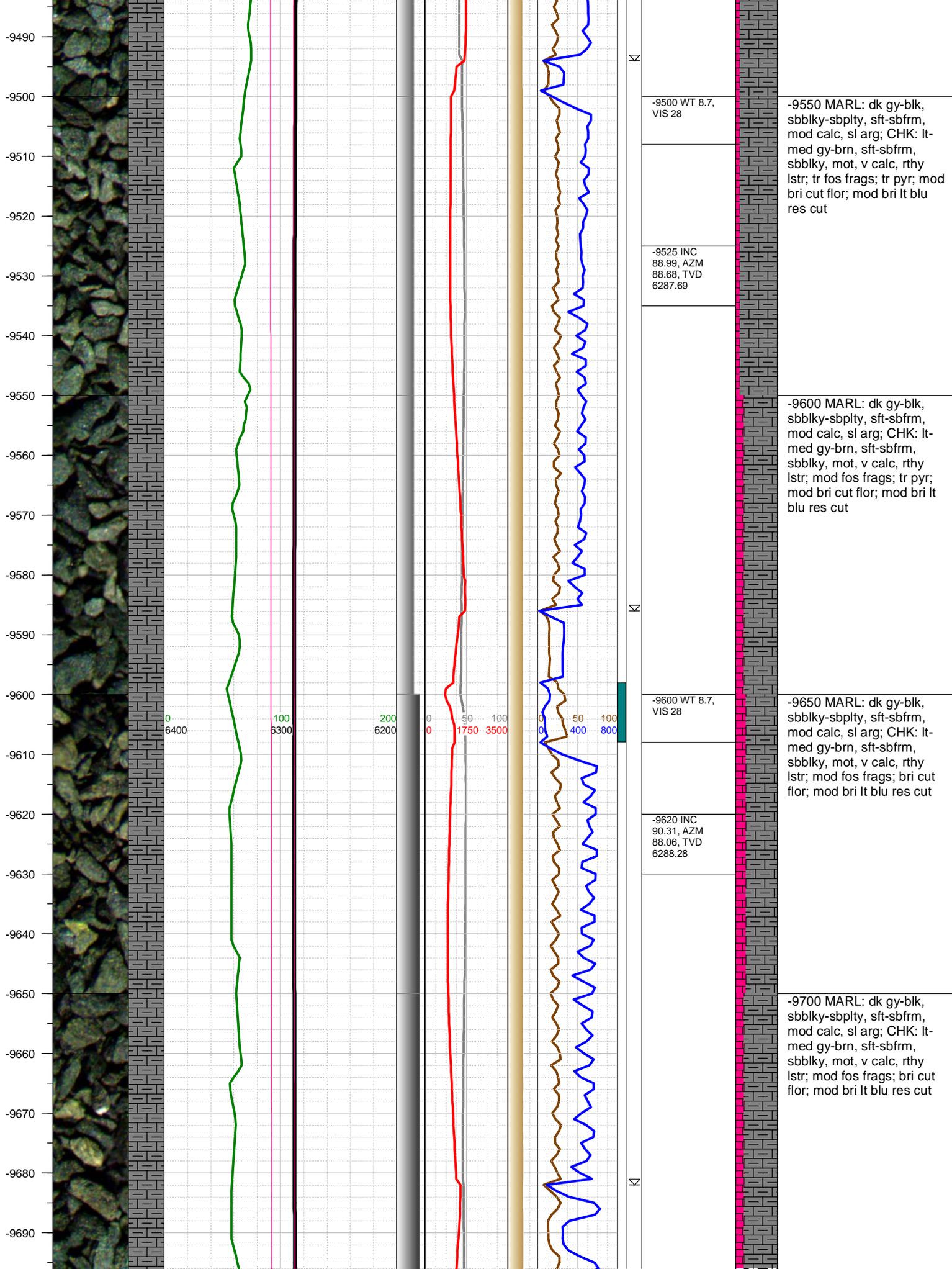
-9431 INC  
88.99, AZM  
88.5, TVD  
6286.03

-9350 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; tr fos frags; tr pyr; mod  
bri cut flor; dull lt blu res  
cut

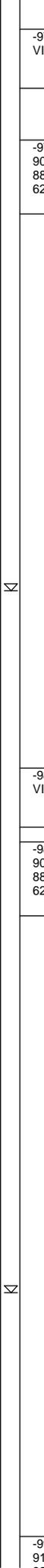
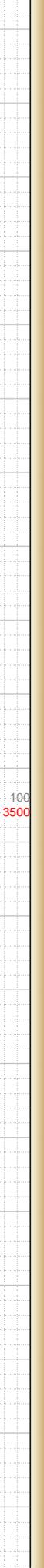
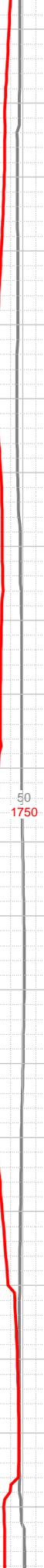
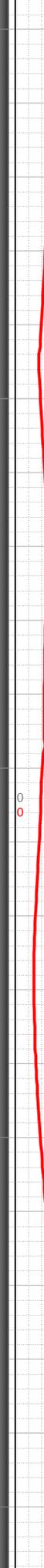
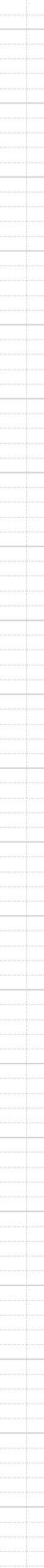
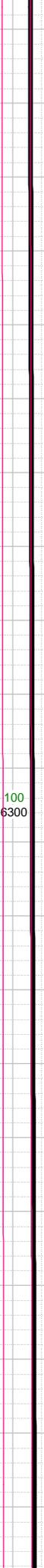
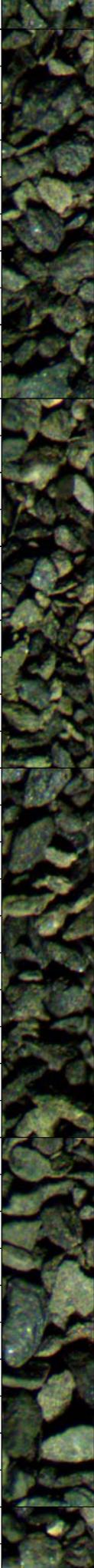
-9400 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: lt-  
med gy-brn, sft-sbfrm,  
sbbiky, mot, v calc, rthy  
lstr; tr fos frags; tr pyr; mod  
bri cut flor; dull lt blu res  
cut

-9450 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

-9500 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; tr fos frags; tr pyr; mod  
bri cut flor; dull lt blu res  
cut



-9700  
-9710  
-9720  
-9730  
-9740  
-9750  
-9760  
-9770  
-9780  
-9790  
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-9890  
-9900



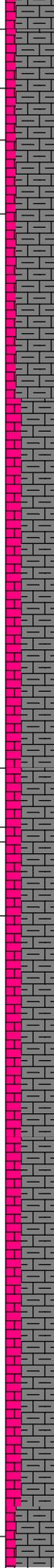
-9700 WT 8.7,  
VIS 28

-9715 INC  
90.75, AZM  
88.94, TVD  
6287.4

-9800 WT 8.8,  
VIS 28

-9810 INC  
90.75, AZM  
88.77, TVD  
6286.16

-9904 INC  
91.01, AZM



-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; mod fos frags; bri cut  
flor; bri lt blu res cut

-9800 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; tr fos frags; bri cut flor;  
bri lt blu res cut

-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; tr fos frags; bri cut flor;  
bri lt blu res cut

-9900 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; tr fos frags; mod bri cut  
flor; mod bri lt blu res cut

-9950 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; tr fos frags; mod bri cut  
flor; mod bri lt blu res cut

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6300

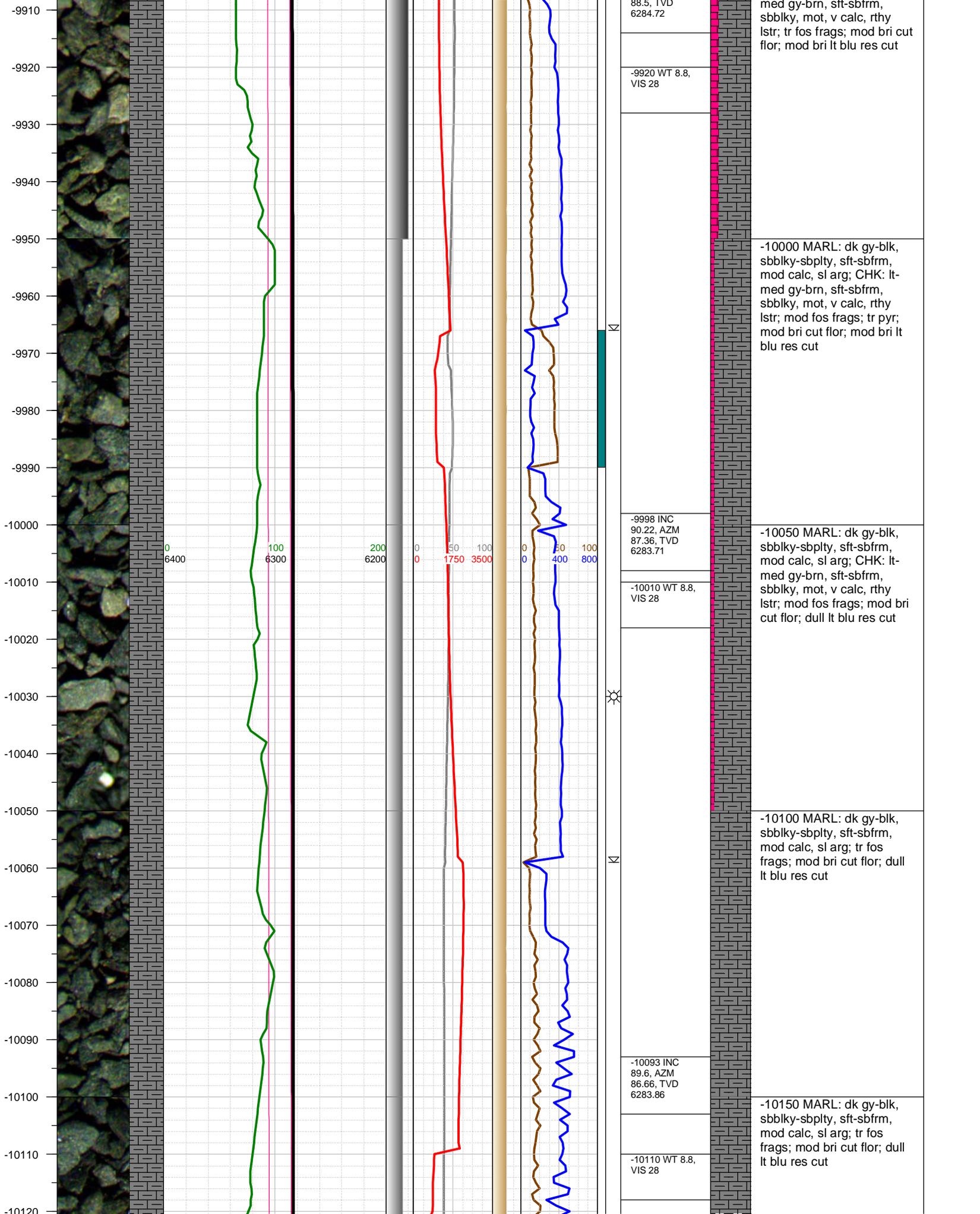
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0 1750 3500

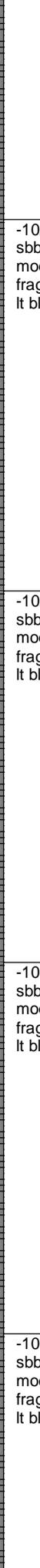
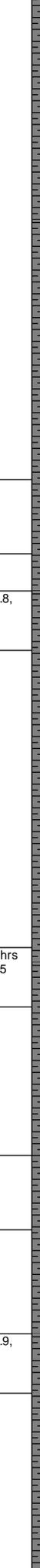
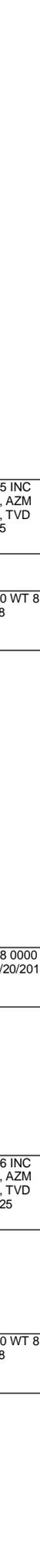
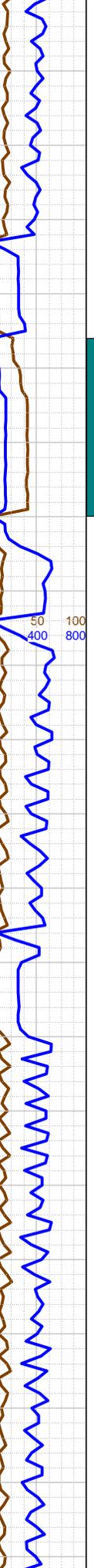
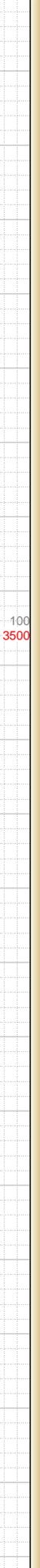
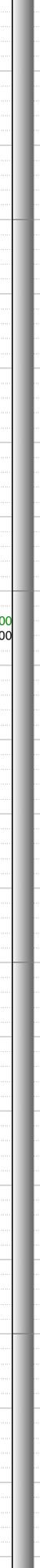
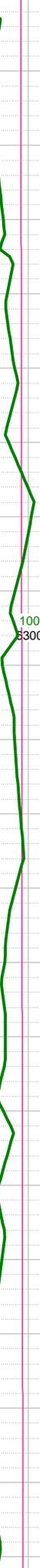
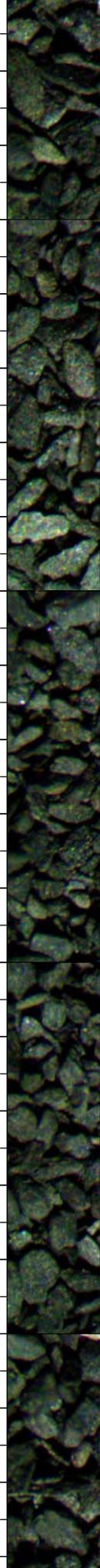
0 50 100  
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Σ



-10120  
-10130  
-10140  
-10150  
-10160  
-10170  
-10180  
-10190  
-10200  
-10210  
-10220  
-10230  
-10240  
-10250  
-10260  
-10270  
-10280  
-10290  
-10300  
-10310  
-10320  
-10330



-10185 INC  
90.84, AZM  
90.26, TVD  
6283.5

-10200 WT 8.8,  
VIS 28

-10248 0000 hrs  
on 12/20/2015

-10276 INC  
90.75, AZM  
89.91, TVD  
6282.25

-10300 WT 8.9,  
VIS 28

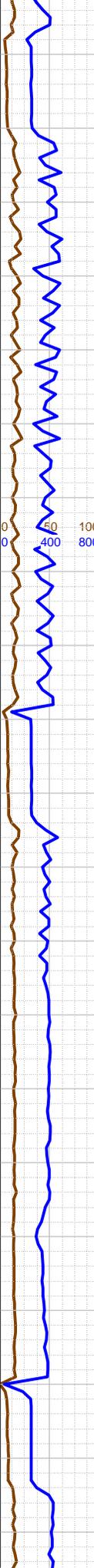
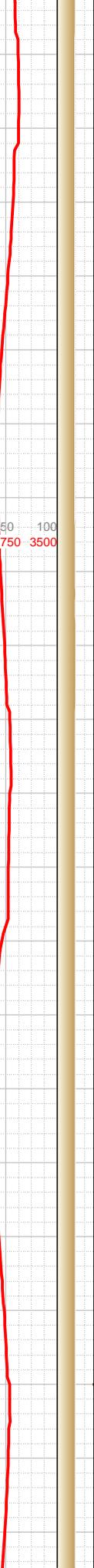
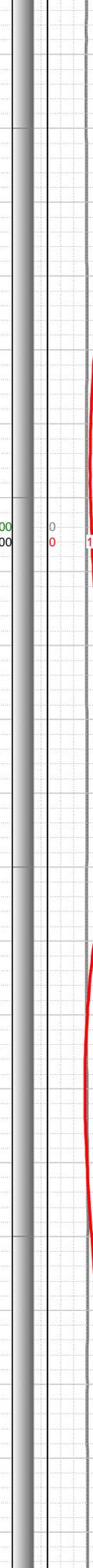
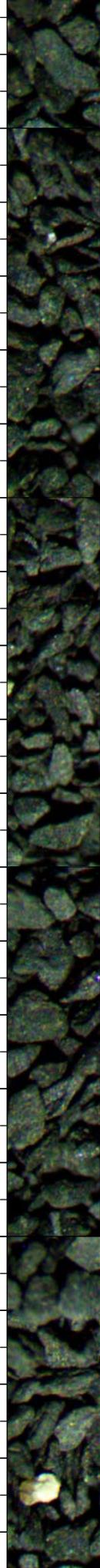
-10200 MARL: dk gy-blk,  
sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

-10250 MARL: dk gy-blk,  
sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

-10300 MARL: dk gy-blk,  
sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

-10350 MARL: dk gy-blk,  
sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; dull  
lt blu res cut

-10340  
-10350  
-10360  
-10370  
-10380  
-10390  
-10400  
-10410  
-10420  
-10430  
-10440  
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-10460  
-10470  
-10480  
-10490  
-10500  
-10510  
-10520  
-10530  
-10540



-10368 INC  
89.69, AZM  
88.86, TVD  
6281.89

-10400 WT 8.9,  
VIS 28

-10460 INC  
90.66, AZM  
88.77, TVD  
6281.61

-10500 WT 8.9,  
VIS 28

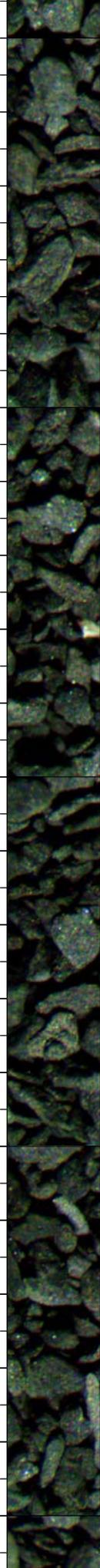
-10400 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; tr pyr; mod bri cut  
flor; dull lt blu res cut

-10450 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; tr pyr; mod bri cut  
flor; dull lt blu res cut

-10500 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; dull  
lt blu res cut

-10550 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; dull  
lt blu res cut

-10550  
-10560  
-10570  
-10580  
-10590  
-10600  
-10610  
-10620  
-10630  
-10640  
-10650  
-10660  
-10670  
-10680  
-10690  
-10700  
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-10720  
-10730  
-10740  
-10750



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6300

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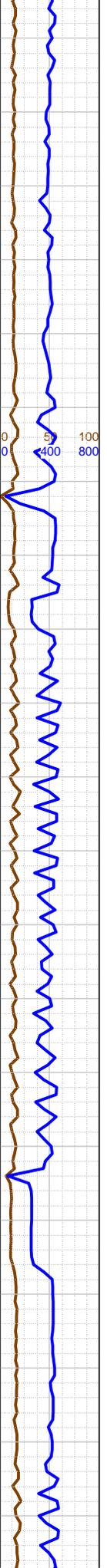
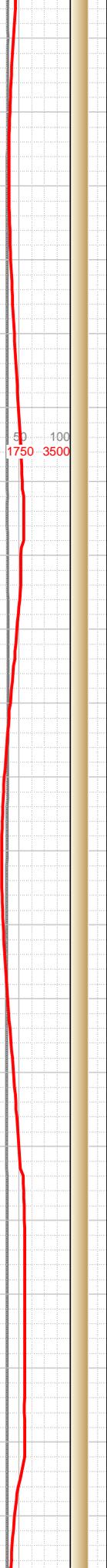
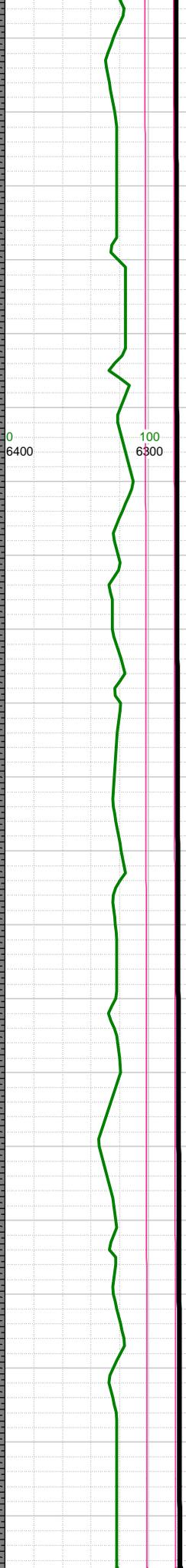
50  
1750

100  
3500

0  
0

50  
400

100  
800



Σ

-10551 INC  
90.48, AZM  
88.15, TVD  
6280.7

-10600 WT 8.9,  
VIS 28

-10643 INC  
90.66, AZM  
87.8, TVD  
6279.78

-10700 WT 8.9,  
VIS 28

-10734 INC  
91.19, AZM  
88.33, TVD  
6278.32

-10600 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; dull  
lt blu res cut

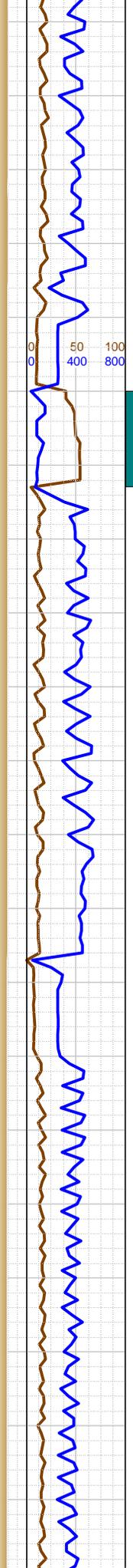
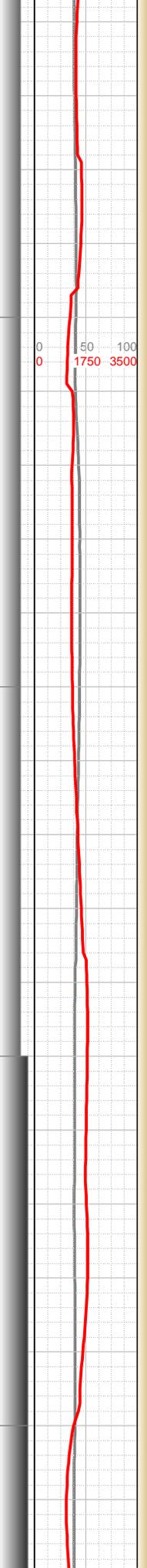
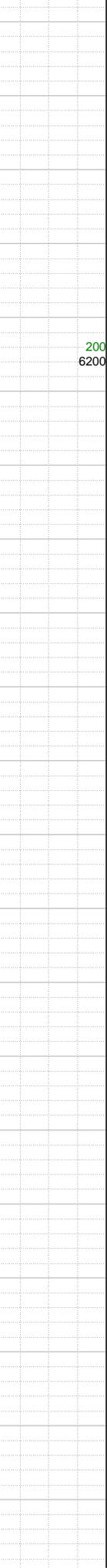
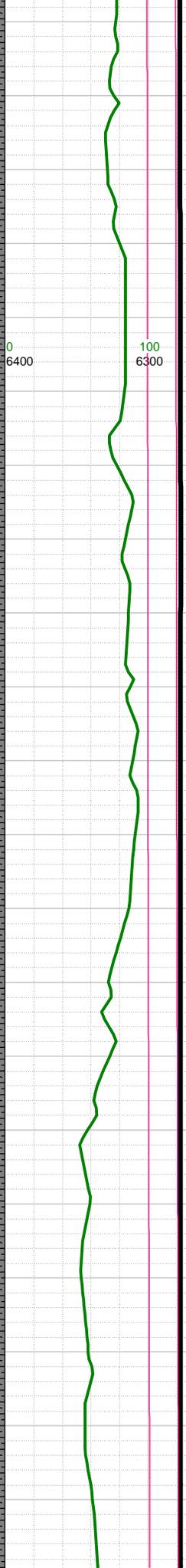
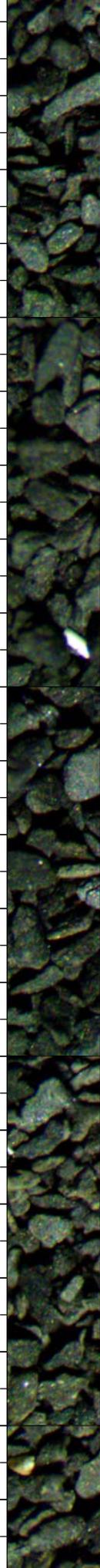
-10650 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; tr pyr; mod bri cut  
flor; dull lt blu res cut

-10700 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; dull  
lt blu res cut

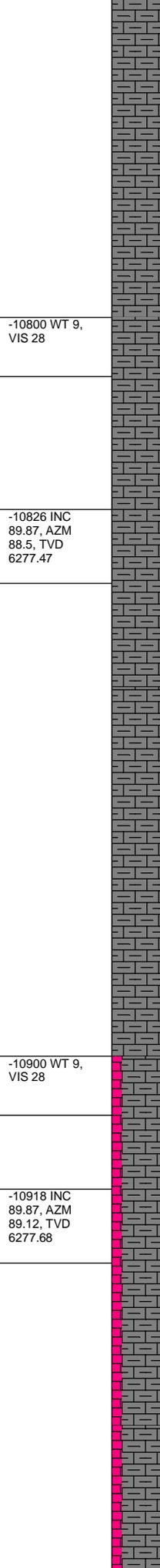
-10750 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; dull  
lt blu res cut

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

-10760  
-10770  
-10780  
-10790  
-10800  
-10810  
-10820  
-10830  
-10840  
-10850  
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-10890  
-10900  
-10910  
-10920  
-10930  
-10940  
-10950  
-10960



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K



-10800 WT 9,  
VIS 28

-10826 INC  
89.87, AZM  
88.5, TVD  
6277.47

-10900 WT 9,  
VIS 28

-10918 INC  
89.87, AZM  
89.12, TVD  
6277.68

frags; tr pyr; mod bri cut  
flor; dull lt blu res cut

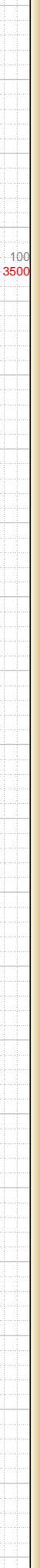
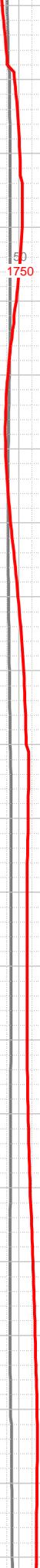
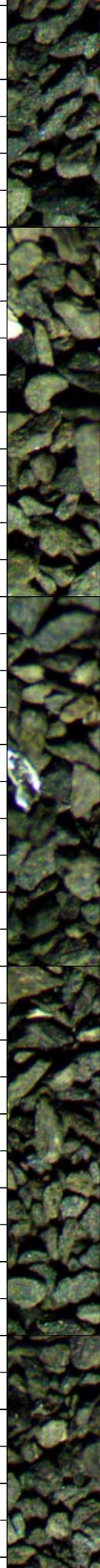
-10850 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

-10900 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

-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; tr fos frags; bri cut flor;  
mod bri lt blu res cut

-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; tr fos frags; bri cut flor;  
mod bri lt blu res cut

-10970  
-10980  
-10990  
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-11000 WT 9,  
VIS 28

-11010 INC  
90.13, AZM  
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-11101 INC  
90.48, AZM  
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6277.19

-11120 WT 9,  
VIS 28



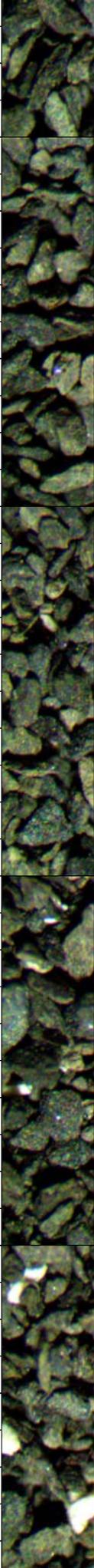
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sbbly, mot, v calc, rthy  
lstr; tr fos frags; bri cut flr;  
mod bri lt blu res cut

-11100 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; tr fos frags; bri cut flr;  
bri lt blu res cut

-11150 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; mod fos frags; bri cut  
flr; bri lt blu res cut

-11200 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; tr fos frags; bri cut flr;  
bri lt blu res cut

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-11193 INC  
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-11210 WT 9,  
VIS 28

-11285 INC  
89.78, AZM  
89.38, TVD  
6275.08

-11300 WT 9.1,  
VIS 28

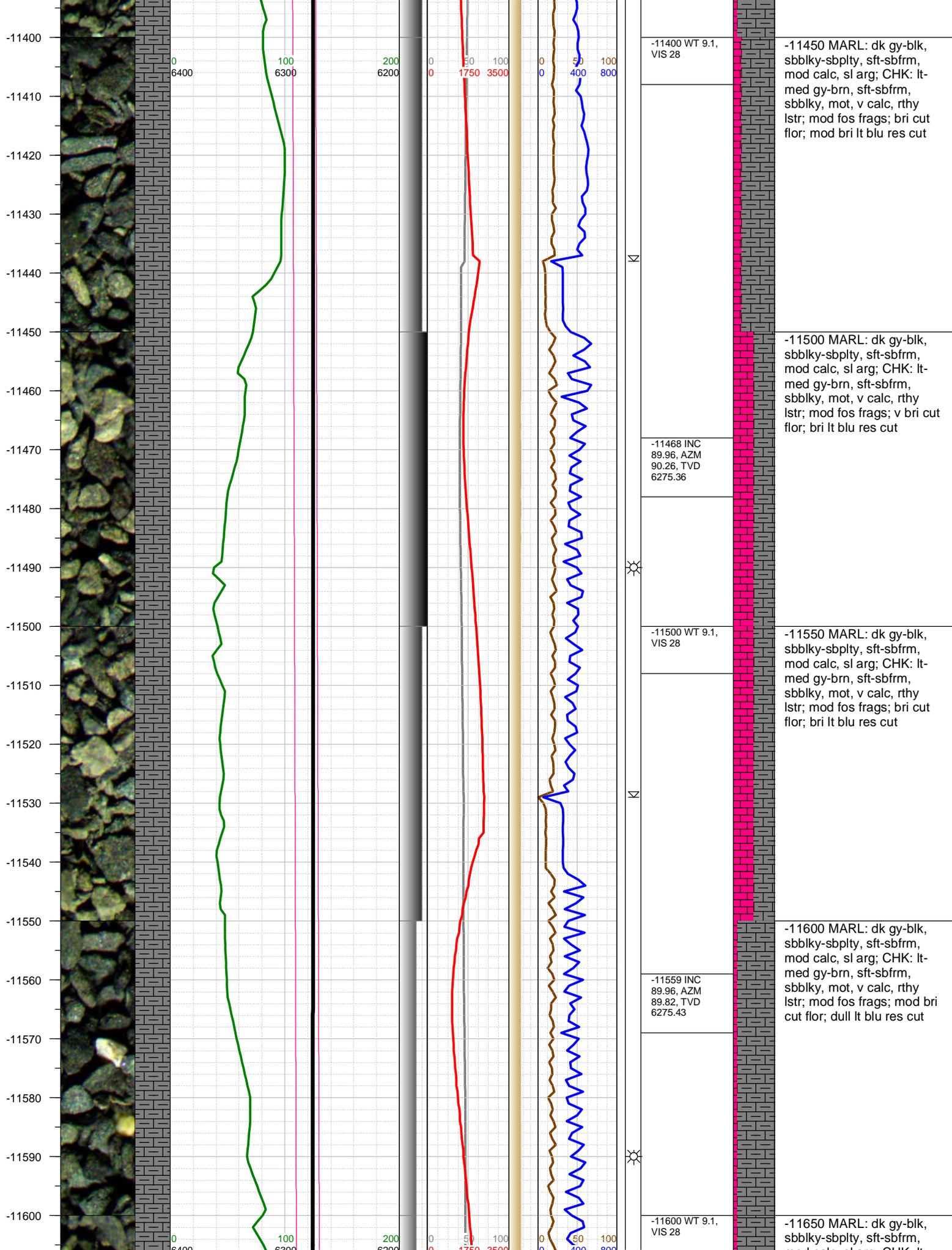
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6275.29

-11250 MARL: dk gy-blk,  
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lstr; tr fos frags; bri cut flr;  
mod bri lt blu res cut

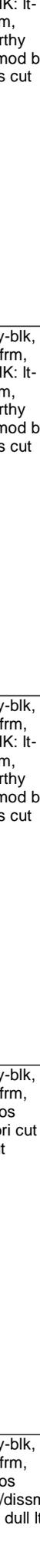
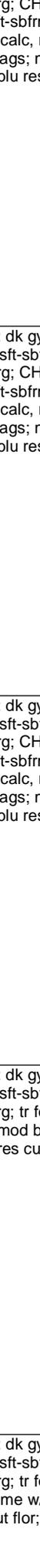
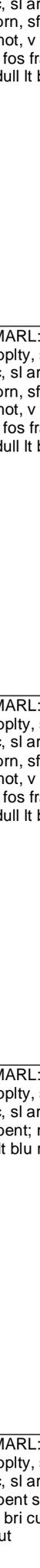
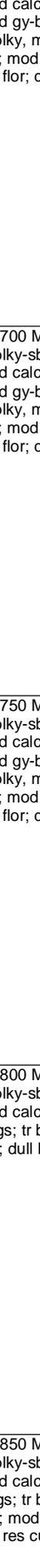
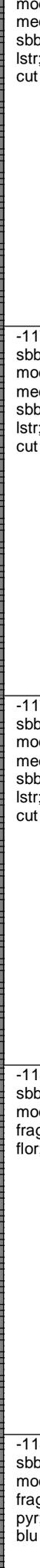
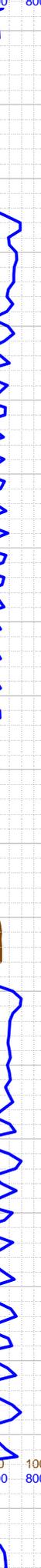
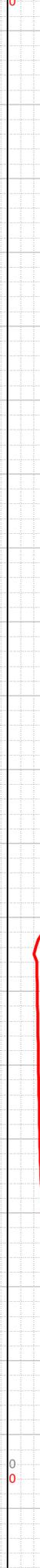
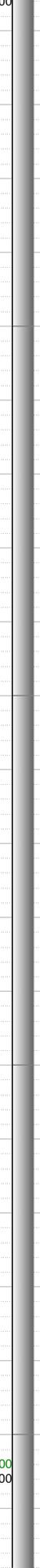
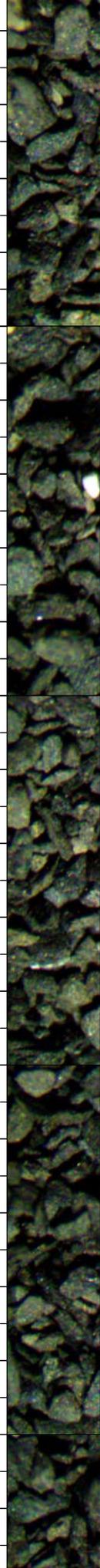
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sbbly, mot, v calc, rthy  
lstr; tr fos frags; bri cut flr;  
mod bri lt blu res cut

-11350 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; mod fos frags; bri cut  
flr; bri lt blu res cut

-11400 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; tr fos frags; bri cut flr;  
bri lt blu res cut



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-11651 INC  
89.25, AZM  
88.94, TVD  
6276.06

-11700 WT 9.1,  
VIS 28

-11743 INC  
90.92, AZM  
89.73, TVD  
6275.92

-11800 WT 9.1,  
VIS 28

mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; mod fos frags; mod bri cut flor; dull lt blu res cut

-11700 MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; mod fos frags; mod bri cut flor; dull lt blu res cut

-11750 MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; mod fos frags; mod bri cut flor; dull lt blu res cut

-11800 MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr bent; mod bri cut flor; dull lt blu res cut

-11850 MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr bent sme w/dissm pyr; mod bri cut flor; dull lt blu res cut

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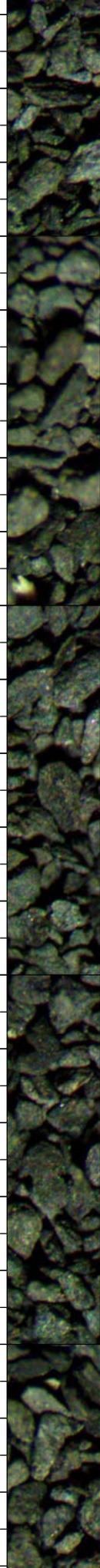
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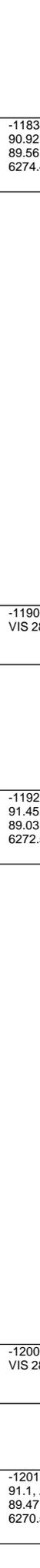
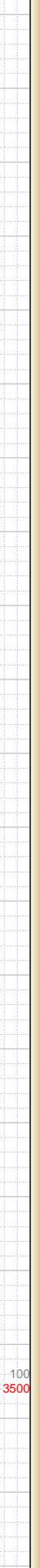
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-11834 INC  
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89.56, TVD  
6274.45

-11900 WT 9.1,  
VIS 28

-11925 INC  
91.45, AZM  
89.03, TVD  
6272.57

-12000 WT 9.2,  
VIS 28

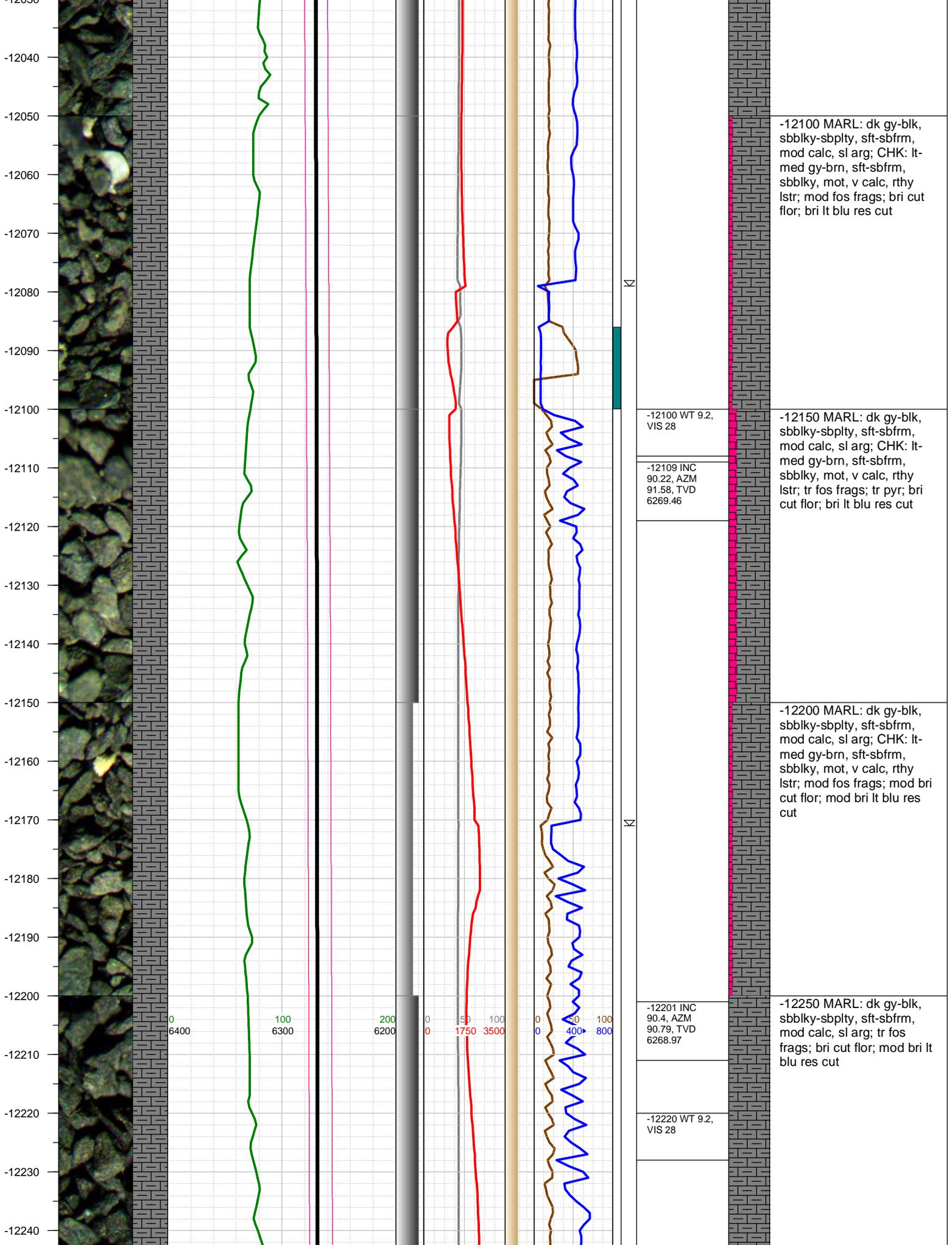
-12017 INC  
91.1, AZM  
89.47, TVD  
6270.52

-11900 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr bent sme w/dissm pyr; mod bri cut flor; mod bri lt blu res cut

-11950 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr bent sme w/dissm pyr; mod bri cut flor; mod bri lt blu res cut

-12000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr pyr; mod bri cut flor; dull lt blu res cut

-12050 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; bri cut flor; bri lt blu res cut



-12100 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; mod fos frags; bri cut flor; bri lt blu res cut

-12100 WT 9.2, VIS 28

-12150 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; tr fos frags; tr pyr; bri cut flor; bri lt blu res cut

-12109 INC 90.22, AZM 91.58, TVD 6269.46

-12200 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; mod fos frags; mod bri cut flor; mod bri lt blu res cut

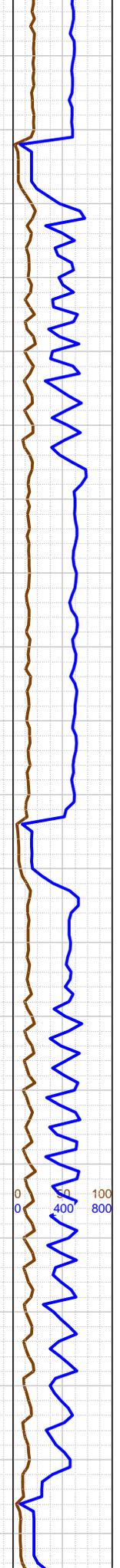
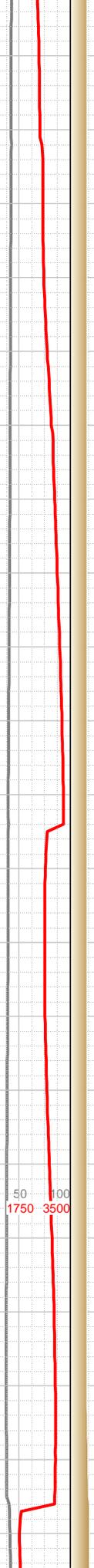
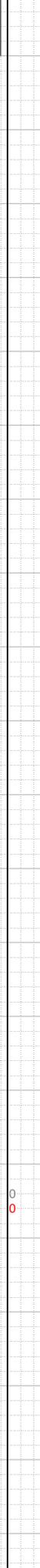
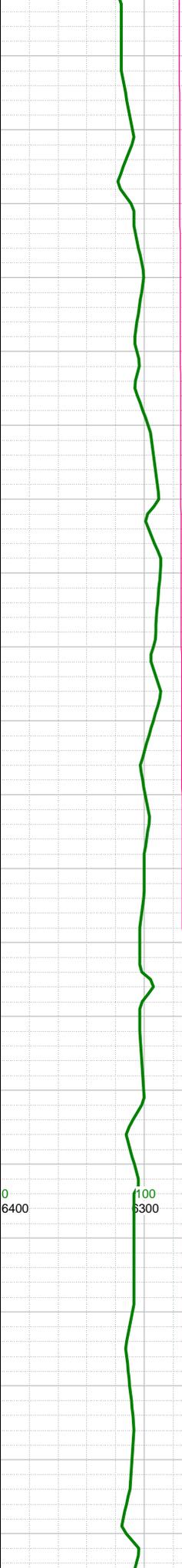
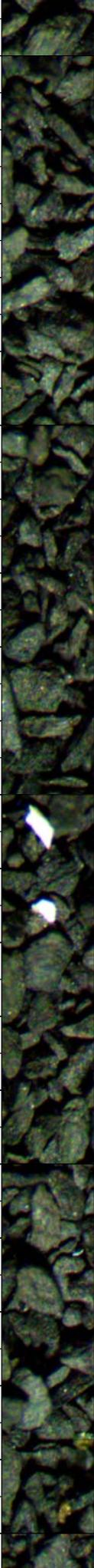
-12201 INC 90.4, AZM 90.79, TVD 6268.97

-12250 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; tr fos frags; bri cut flor; mod bri lt blu res cut

-12220 WT 9.2, VIS 28

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-12292 INC  
89.96, AZM  
90.7, TVD  
6268.69

-12310 WT 9.2,  
VIS 28

-12384 INC  
90.66, AZM  
90.35, TVD  
6268.19

-12400 WT 9.2,  
VIS 28

-12300 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

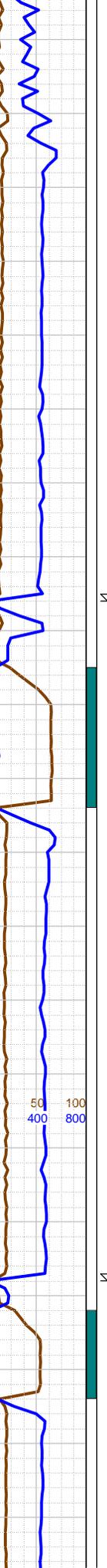
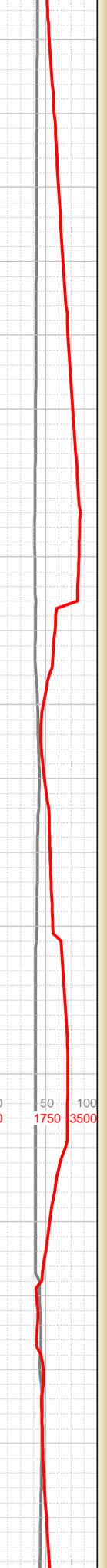
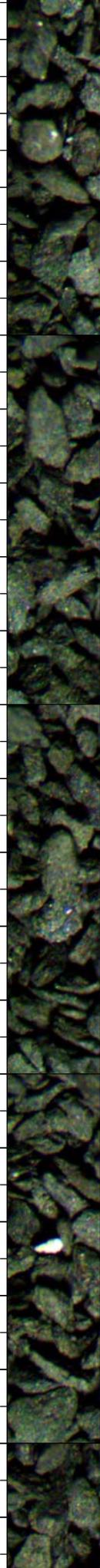
-12350 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

-12400 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

-12450 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

-12500 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,

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-12660



mod calc, sl arg; tr fos frags; mod bri cut flor; mod bri lt blu res cut

-12475 INC  
91.36, AZM  
90.88, TVD  
6266.59

-12500 WT 9.2,  
VIS 28

-12550 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; tr fos frags; mod bri cut flor; mod bri lt blu res cut

-12600 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod fos frags; tr pyr; mod bri cut flor; mod bri lt blu res cut

-12567 INC  
91.36, AZM  
89.73, TVD  
6264.4

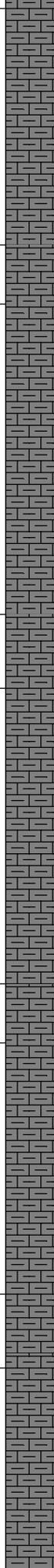
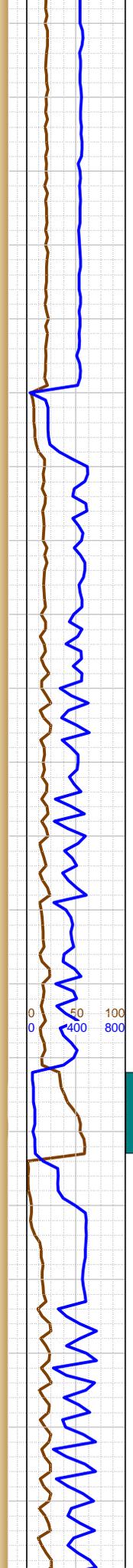
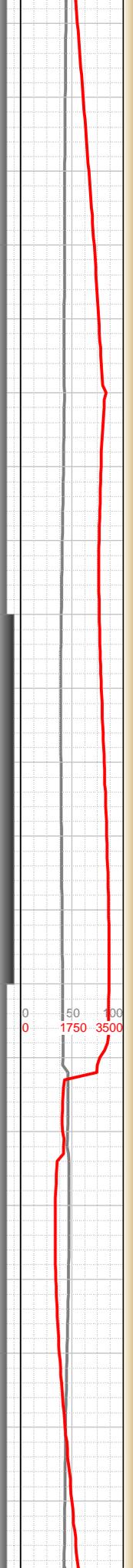
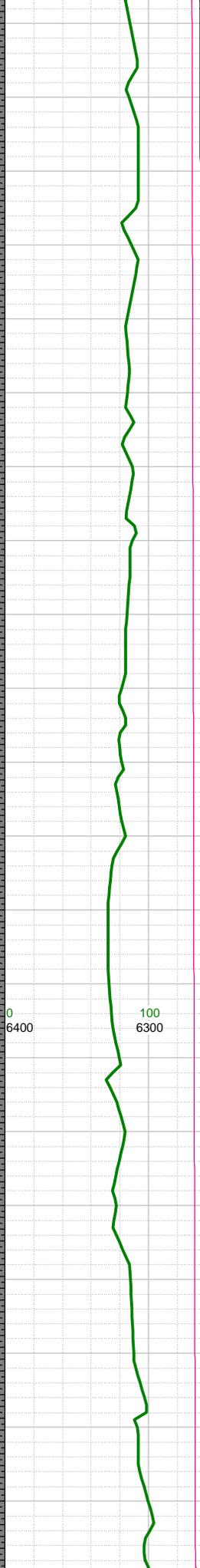
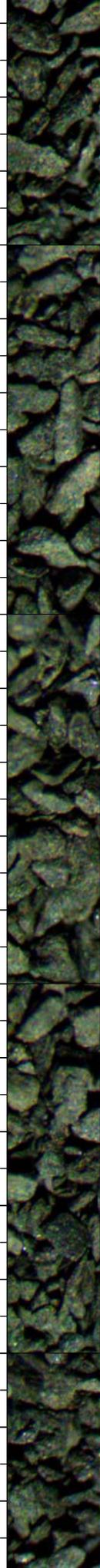
-12600 WT 9.2,  
VIS 28

-12650 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod fos frags; tr forams; bri cut flor; bri lt blu res cut

-12700 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod fos frags; mod bri cut flor; bri lt blu res cut

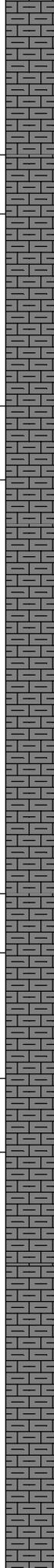
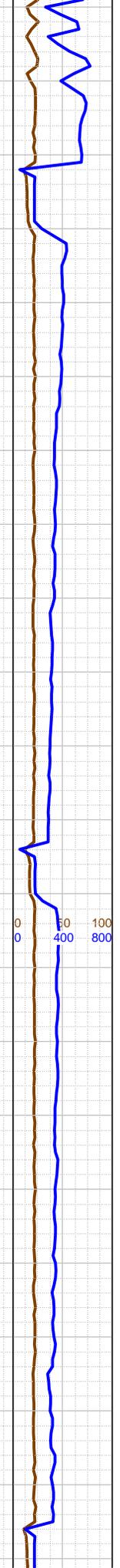
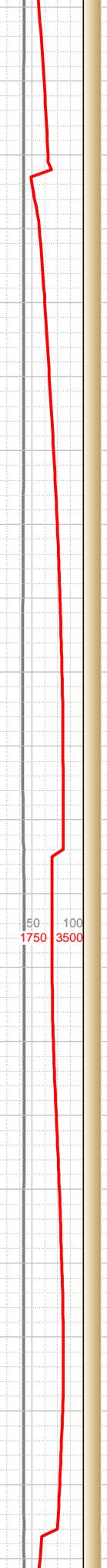
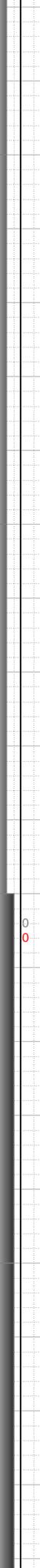
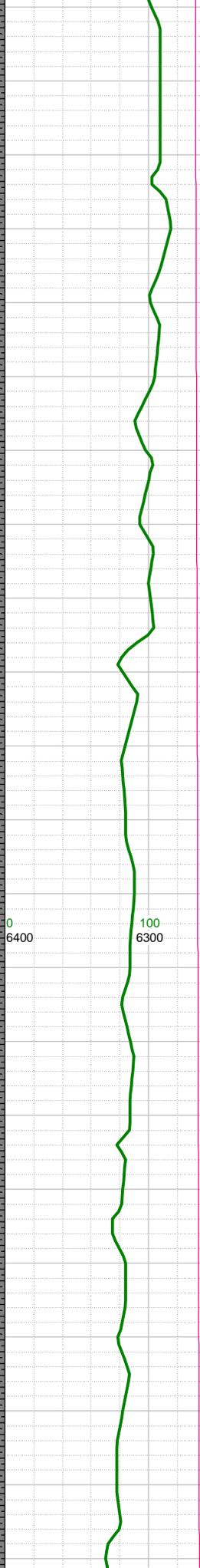
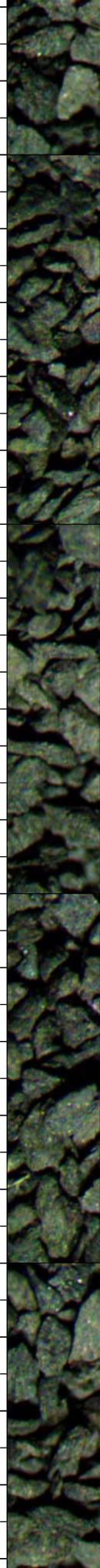
-12658 INC  
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90.61, TVD  
6263

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-12700 WT 9.2, VIS 31  
-12750 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; mod bri cut flor; mod bri lt blu res cut  
-12750 INC 91.1, AZM 90.44, TVD 6261.8  
-12800 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg; mod fos frags; bri cut flor; mod bri lt blu res cut  
-12800 WT 9.2, VIS 31  
-12850 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg; mod fos frags; mod bri cut flor; mod bri lt blu res cut  
-12842 INC 89.78, AZM 89.38, TVD 6261.1  
-12900 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg; mod fos frags; tr pyr; mod bri cut flor; mod bri lt blu res cut

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-12900 WT 9.2,  
VIS 31

-12950 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

-12934 INC  
90.04, AZM  
88.68, TVD  
6261.24

-13000 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; mod  
bri lt blu res cut

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-13000 WT 9.2,  
VIS 29

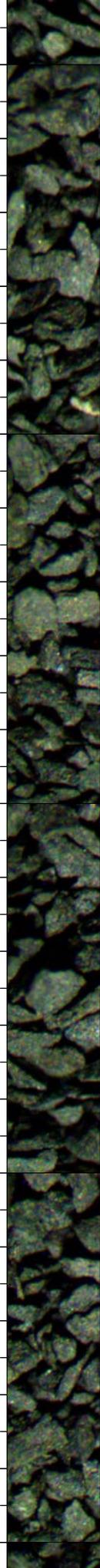
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mod calc, sl arg; mod fos  
frags; bri cut flor; mod bri lt  
blu res cut

-13025 INC  
90.4, AZM  
89.12, TVD  
6260.89

-13100 MARL: dk gy-blk,  
sbbiky-sbply, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; tr forams; bri cut flor;  
mod bri lt blu res cut

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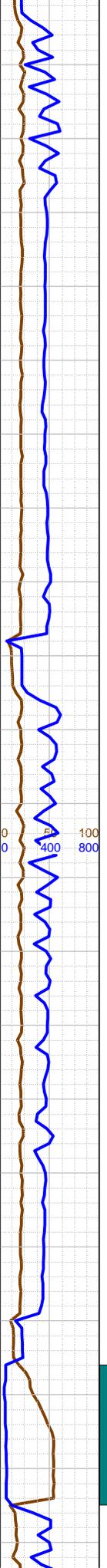
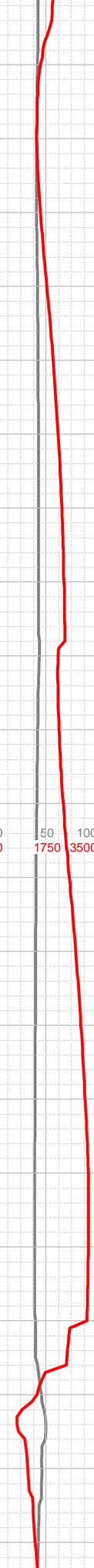
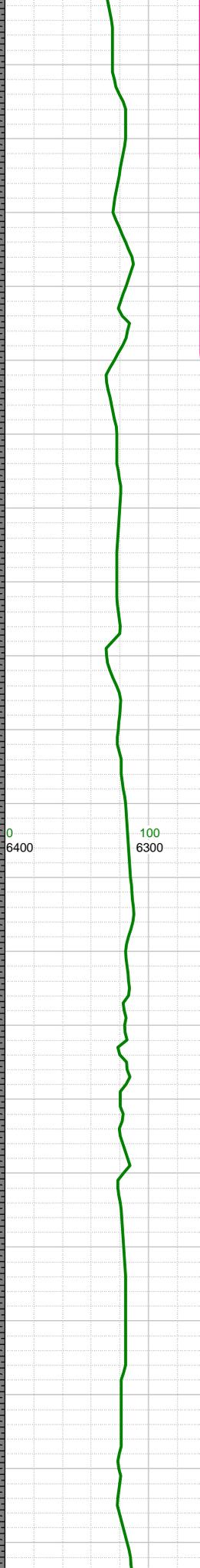
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100  
800



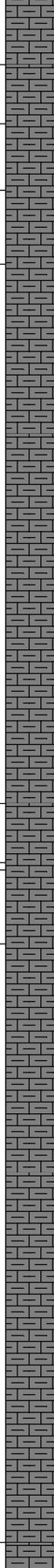
-13100 WT 9.2,  
VIS 29

-13117 INC  
90.57, AZM  
89.03, TVD  
6260.11

-13200 WT 9.2,  
VIS 29

-13209 INC  
91.19, AZM  
90.44, TVD  
6258.7

-13300 INC  
89.6, AZM



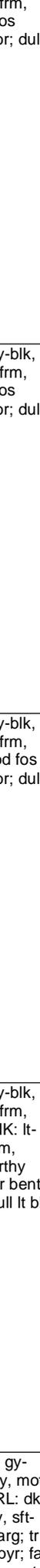
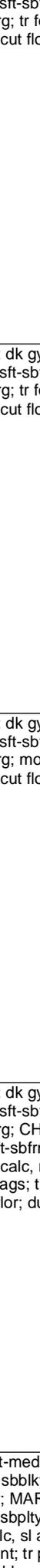
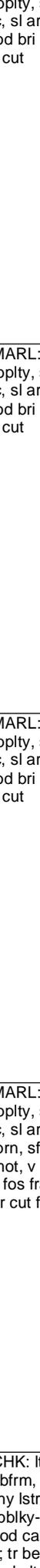
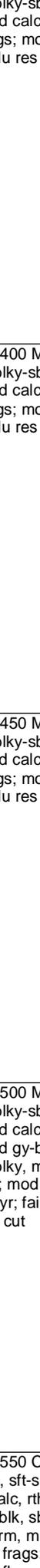
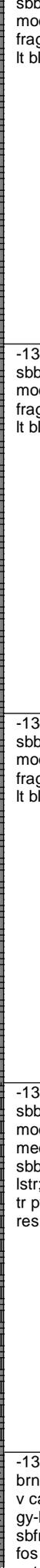
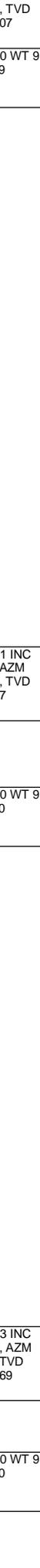
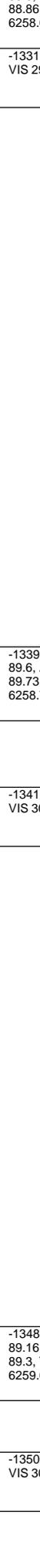
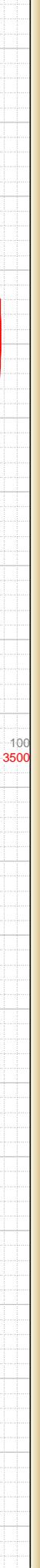
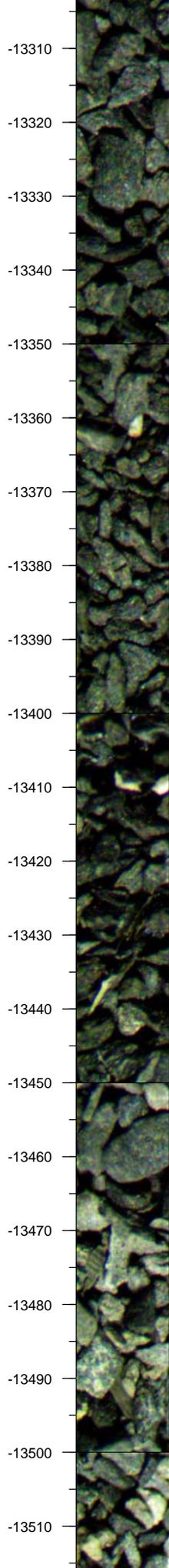
-13150 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; tr forams; bri cut flor;  
mod bri lt blu res cut

-13200 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; tr forams; bri cut flor;  
mod bri lt blu res cut

-13250 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; tr forams; mod bri  
cut flor; dull lt blu res cut

-13300 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

-13350 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut



88.86, TVD  
6258.07

-13310 WT 9.2,  
VIS 29

-13391 INC  
89.6, AZM  
89.73, TVD  
6258.7

-13410 WT 9.2,  
VIS 30

-13483 INC  
89.16, AZM  
89.3, TVD  
6259.69

-13500 WT 9.2,  
VIS 30

sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

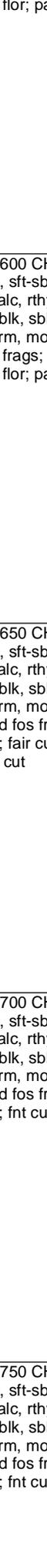
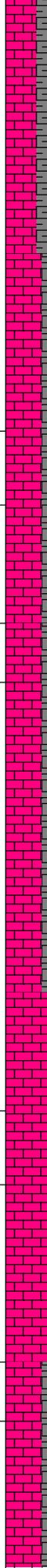
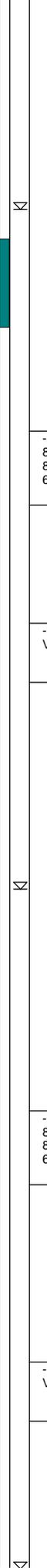
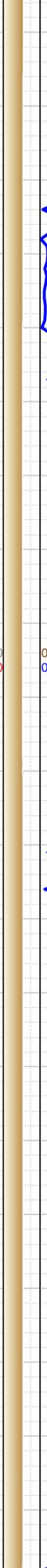
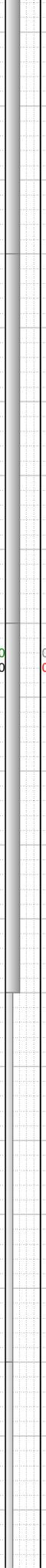
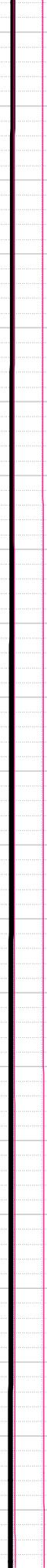
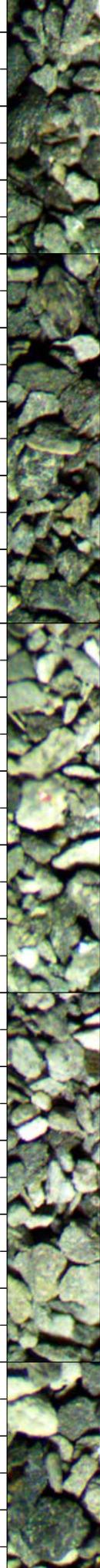
-13400 MARL: dk gy-blk,  
sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; tr fos  
frags; mod bri cut flor; dull  
lt blu res cut

-13450 MARL: dk gy-blk,  
sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; mod fos  
frags; mod bri cut flor; dull  
lt blu res cut

-13500 MARL: dk gy-blk,  
sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; CHK: lt-  
med gy-brn, sft-sbfrm,  
sbbiky, mot, v calc, rthy  
lstr; mod fos frags; tr bent;  
tr pyr; fair cut flor; dull lt blu  
res cut

-13550 CHK: lt-med gy-  
brn, sft-sbfrm, sbbiky, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbbiky-sbplty, sft-  
sbfrm, mod calc, sl arg; tr  
fos frags; tr bent; tr pyr; fair

-13520  
-13530  
-13540  
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-13560  
-13570  
-13580  
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-13600  
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-13660  
-13670  
-13680  
-13690  
-13700  
-13710  
-13720



-13574 INC  
89.6, AZM  
88.59, TVD  
6260.67

-13600 WT 9.2,  
VIS 31

-13666 INC  
89.43, AZM  
87.63, TVD  
6261.44

-13700 WT 9.2,  
VIS 31

-13600 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 fos frags; tr bent; tr pyr; fair cut flor; pale lt blu res cut

-13650 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 fos frags; tr bent; tr pyr; fair cut flor; pale lt blu res cut

-13700 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 fos frags; tr bent; tr pyr; fnt cut flor

-13750 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 fos frags; tr bent; tr pyr; fnt cut flor

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6400

100  
6300

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6200

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0

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1750

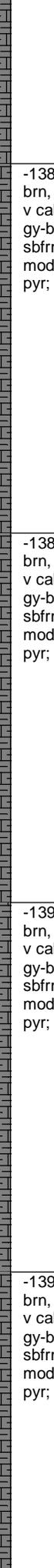
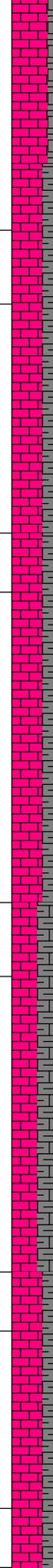
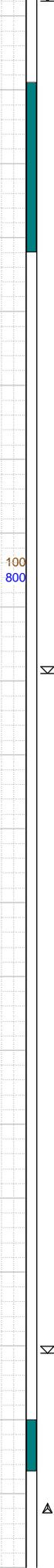
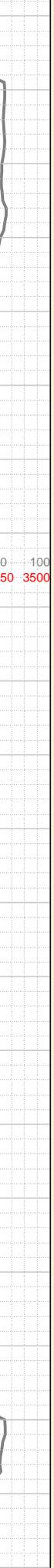
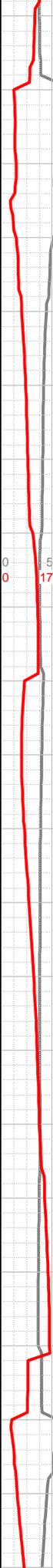
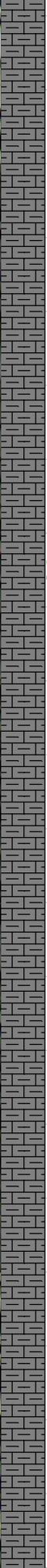
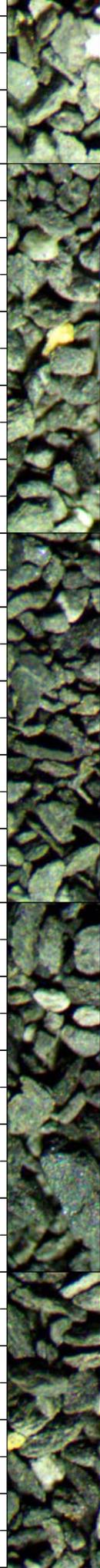
100  
3500

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-13890  
-13900  
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-13920  
-13930  
13940



-13759 INC  
90.13, AZM  
88.42, TVD  
6261.8

-13800 WT 9.3,  
VIS 30

-13850 INC  
90.31, AZM  
87.98, TVD  
6261.45

-13900 WT 9.3,  
VIS 30

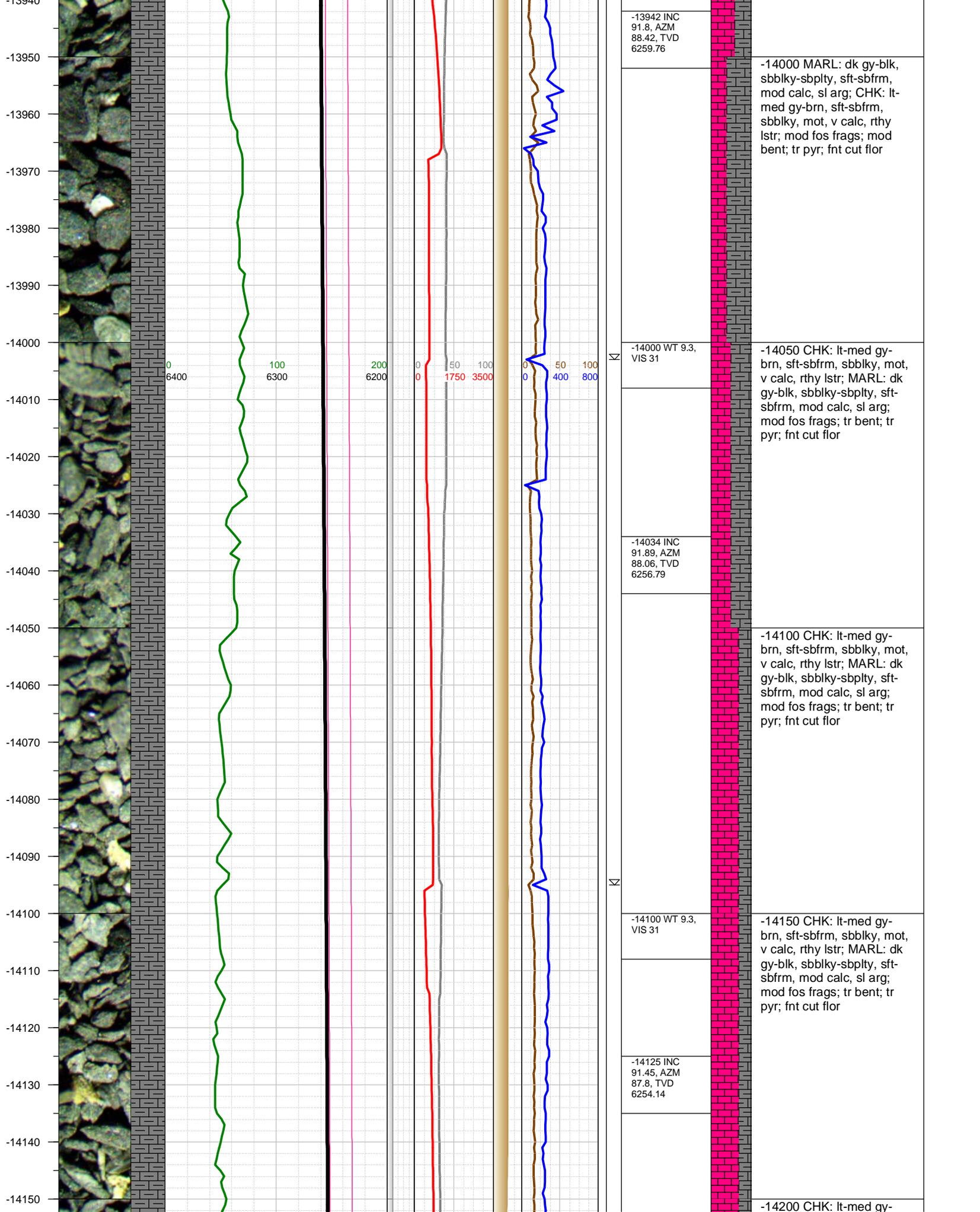
-13932 0000 hrs  
on 12/21/2015

-13800 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 fos frags; mod bent; tr pyr; fnt cut flor

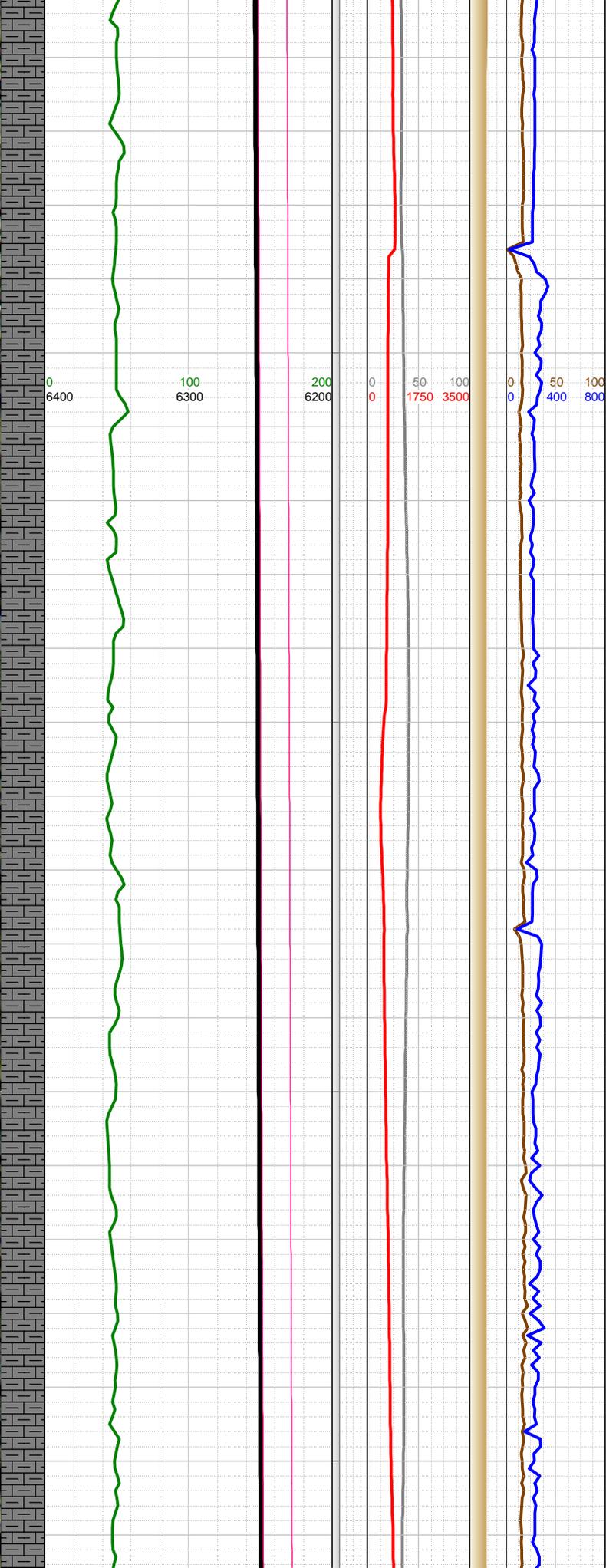
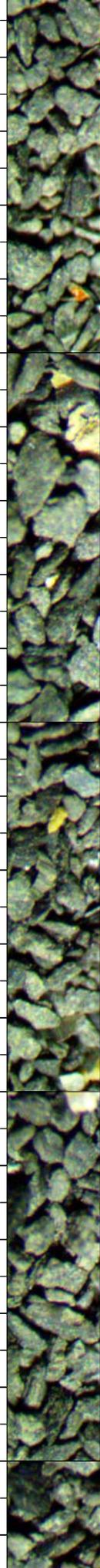
-13850 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod fos frags; tr bent; tr pyr; fnt cut flor

-13900 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 fos frags; tr bent; tr pyr; fnt cut flor

-13950 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 fos frags; mod bent; tr pyr; fnt cut flor



-14160  
-14170  
-14180  
-14190  
-14200  
-14210  
-14220  
-14230  
-14240  
-14250  
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-14360



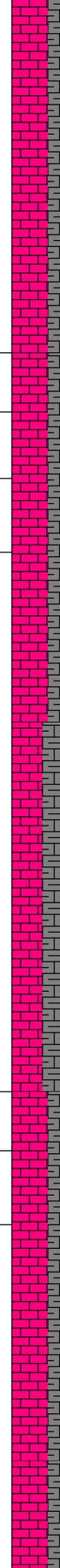
W  
W

-14200 WT 9.1,  
VIS 30

-14217 INC  
91.01, AZM  
88.06, TVD  
6252.16

-14300 WT 9.1,  
VIS 30

-14308 INC  
90.92, AZM  
86.48, TVD  
6250.63



brn, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbbly-sbply, sft-  
sbfrm, mod calc, sl arg; tr  
fos frags; tr bent; tr pyr; fnt  
cut flor

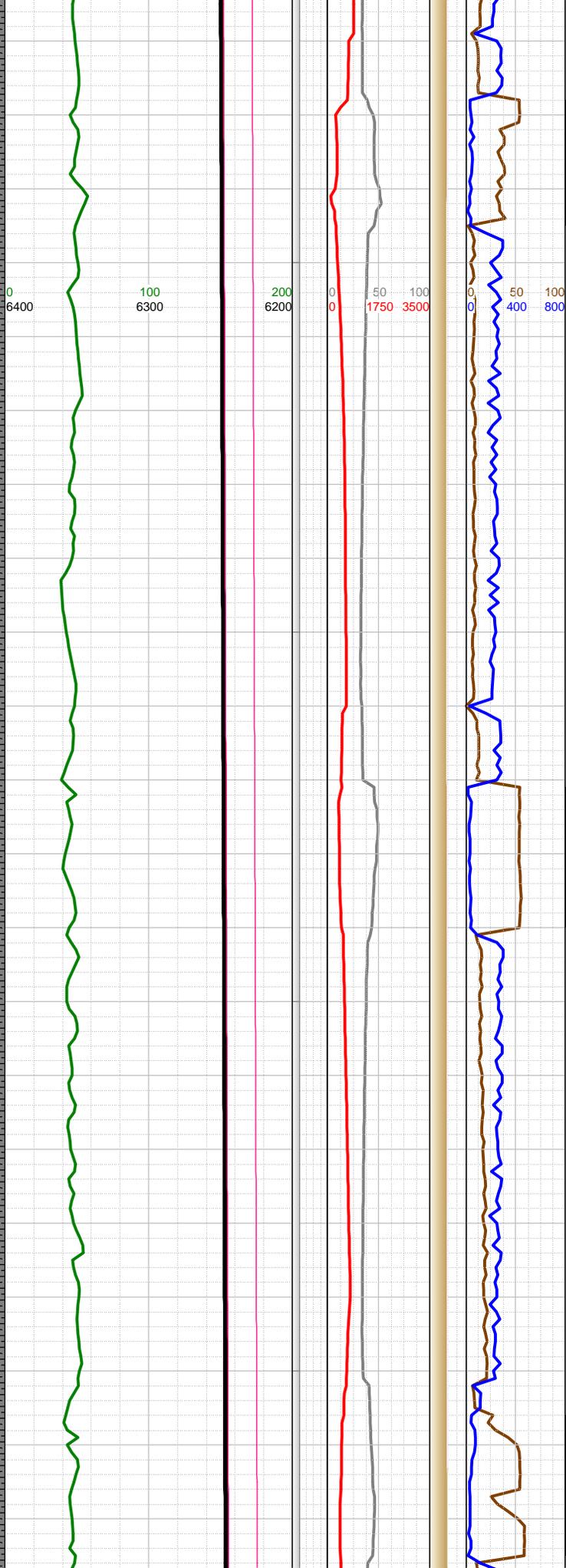
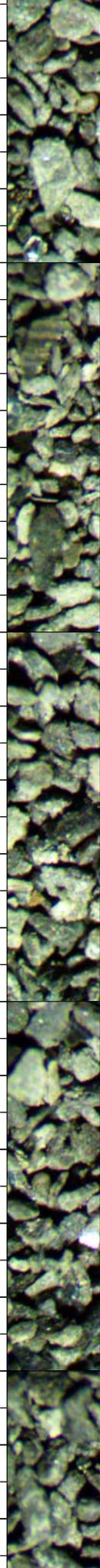
-14250 CHK: lt-med gy-  
brn, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbbly-sbply, sft-  
sbfrm, mod calc, sl arg; tr  
fos frags; tr bent; tr pyr; fnt  
cut flor

-14300 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 fos frags; tr bent; tr  
pyr; fnt cut flor

-14350 CHK: lt-med gy-  
brn, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbbly-sbply, sft-  
sbfrm, mod calc, sl arg; tr  
fos frags; tr bent; tr pyr; fnt  
cut flor

-14400 CHK: lt-med gy-  
brn, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbbly-sbply, sft-  
sbfrm, mod calc, sl arg; tr  
fos frags; mod bent; tr pyr;

-14370  
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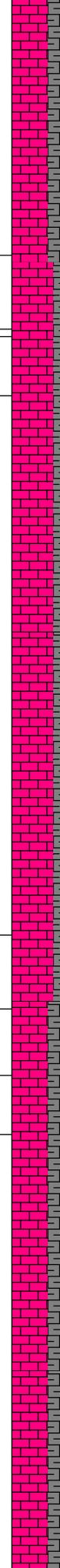


-14399 INC  
91.36, AZM  
86.22, TVD  
6248.81

-14410 WT 9.2,  
VIS 31

-14491 INC  
90.48, AZM  
87.98, TVD  
6247.33

-14510 WT 9.2,  
VIS 31



fnt cut flor

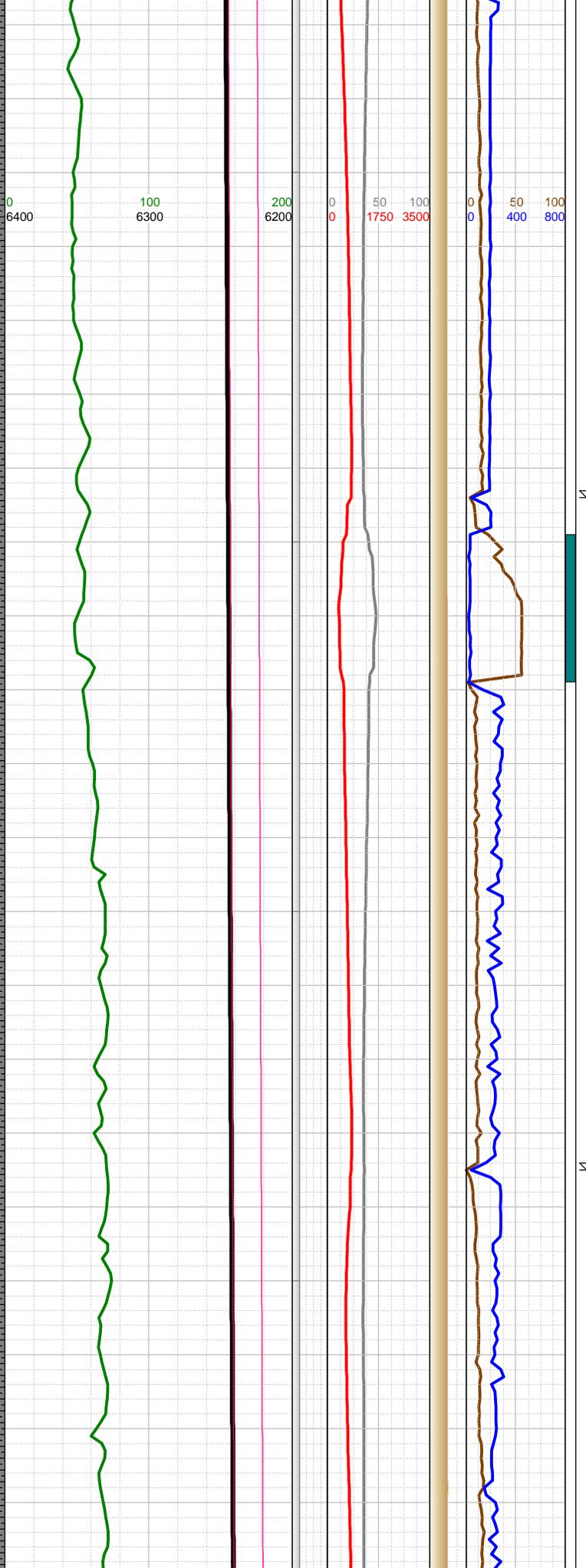
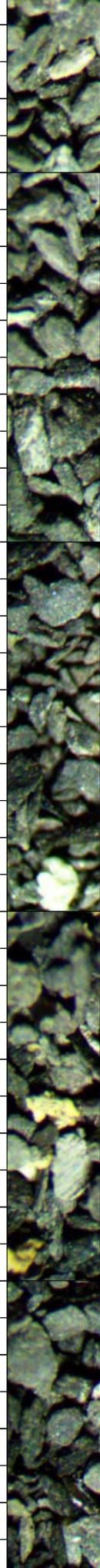
-14450 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; mod bent; tr pyr; fnt cut flor

-14500 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 fos frags; mod bent; tr pyr; fnt cut flor

-14550 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 fos frags; tr bent; tr pyr; fnt cut flor

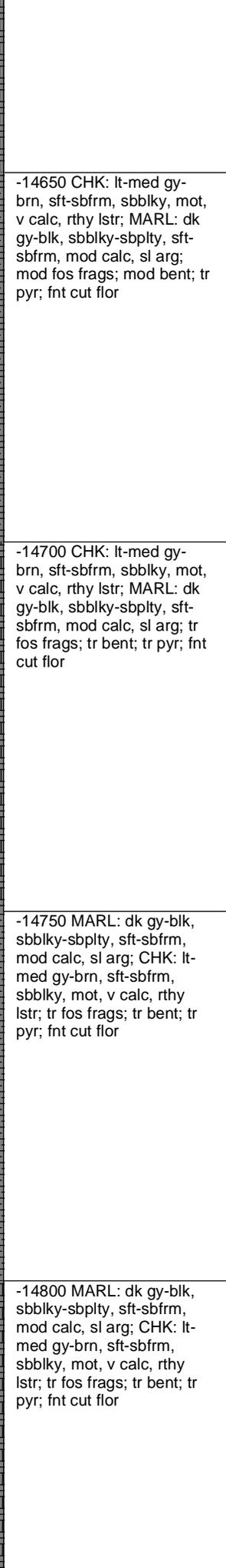
-14600 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr bent; tr pyr; fnt cut flor

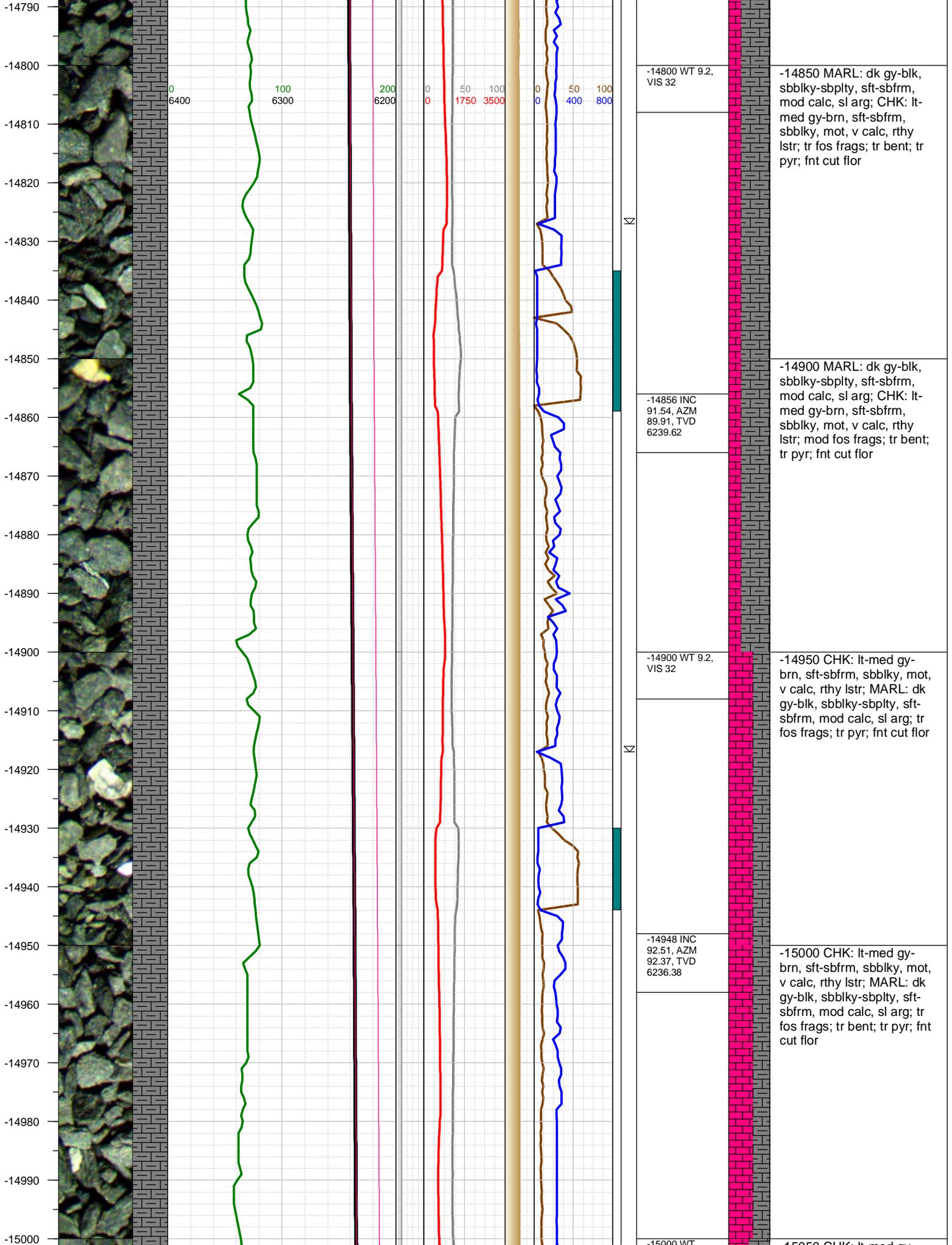
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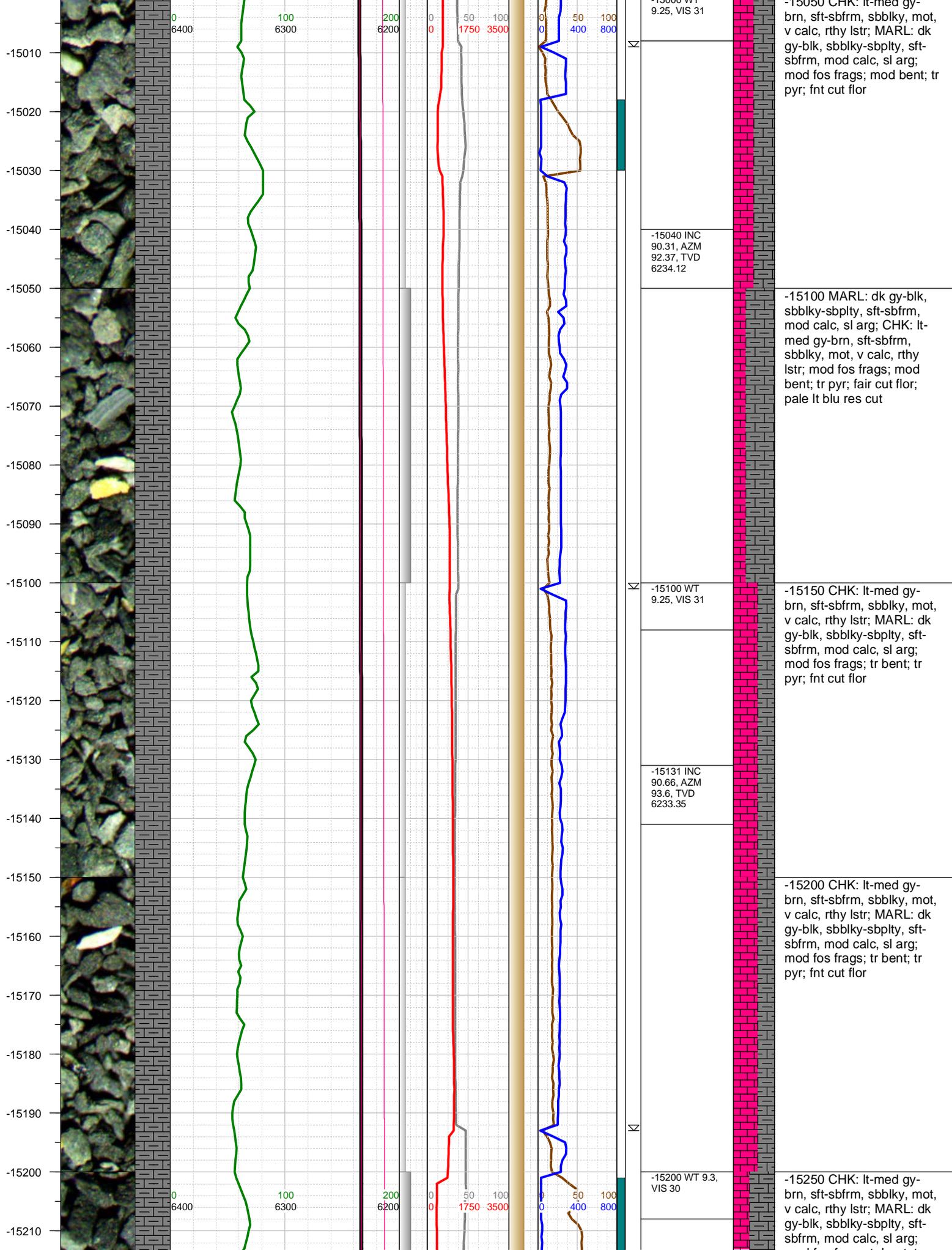


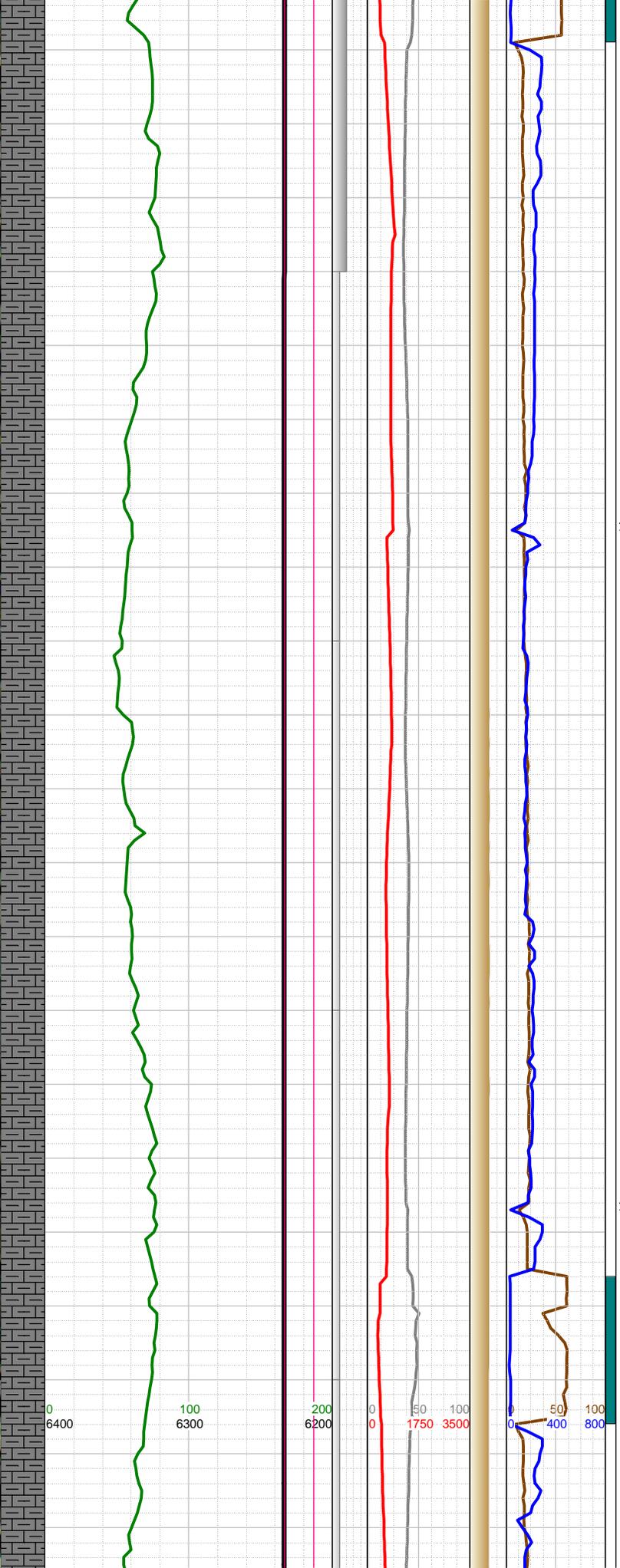
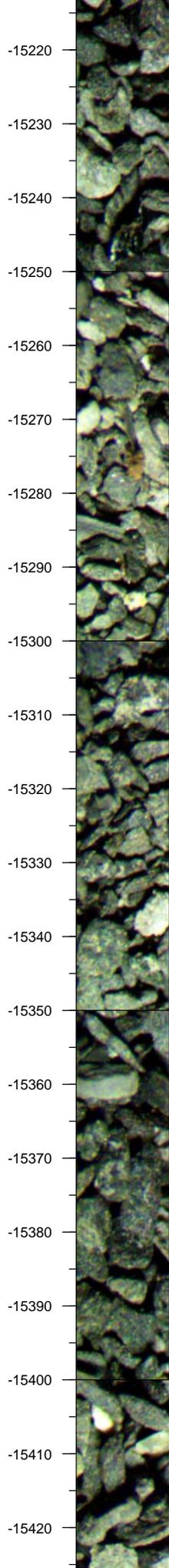
Σ  
Σ

-14582 INC 91.01, AZM 88.5, TVD 6246.14	
-14600 WT 9.15, VIS 31	-14650 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 fos frags; mod bent; tr pyr; fnt cut flor
-14673 INC 91.71, AZM 90.7, TVD 6243.98	-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; tr fos frags; tr bent; tr pyr; fnt cut flor
-14700 WT 9.2, VIS 32	-14750 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; tr fos frags; tr bent; tr pyr; fnt cut flor
-14765 INC 91.1, AZM 88.24, TVD 6241.72	-14800 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; tr fos frags; tr bent; tr pyr; fnt cut flor





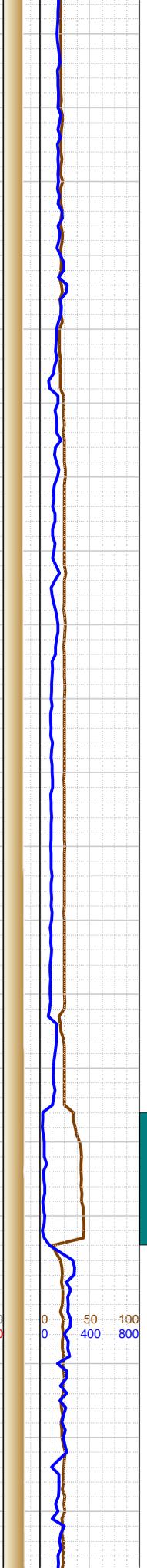
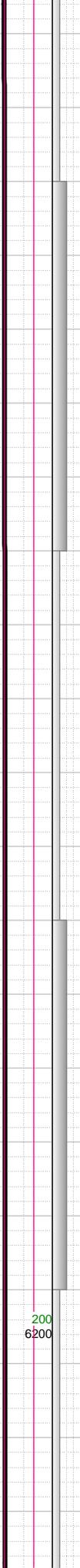
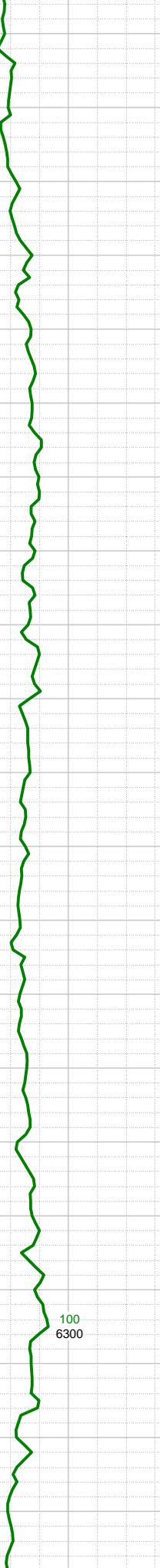
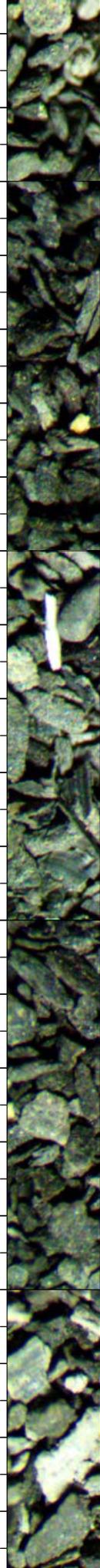




<p>-15223 INC 89.25, AZM 91.05, TVD 6233.42</p>	<p>mod fos frags; tr bent; tr pyr; fair cut flor; pale lt blu res cut</p>
<p>-15300 WT 9.3, VIS 30</p>	<p>-15300 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod fos frags; tr bent; tr pyr; fnt cut flor</p>
<p>-15314 INC 90.48, AZM 92.02, TVD 6233.63</p>	<p>-15350 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; mod fos frags; tr bent; tr pyr; fnt cut flor</p>
<p>-15400 WT 9.3, VIS 31</p>	<p>-15400 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; mod fos frags; mod bent; tr pyr; fnt cut flor</p>
<p>-15409 INC 89.52, AZM 91.32, TVD 6233.63</p>	<p>-15450 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 fos frags; mod bent; tr pyr; fnt cut flor</p>

0 100 200 0 50 100 0 50 100  
6400 6300 6200 0 1750 3500 0 400 800

-15430  
-15440  
-15450  
-15460  
-15470  
-15480  
-15490  
-15500  
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-15590  
-15600  
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-15620  
-15630

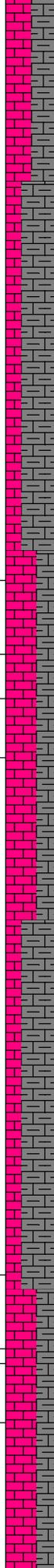


-15504 INC  
91.1, AZM  
91.67, TVD  
6233.12

-15520 WT 9.3,  
VIS 31

-15598 INC  
89.16, AZM 90,  
TVD 6232.9

-15610 WT 9.3,  
VIS 30



-15500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; mod fos frags; tr bent; tr pyr; fair cut flor; pale lt blu res cut

-15550 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 fos frags; mod bent; tr pyr; fnt cut flor

-15600 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; mod fos frags; mod bent; tr pyr; fair cut flor; pale lt blu res cut

-15650 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 fos frags; mod bent; tr pyr; fnt cut flor

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6300

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1750

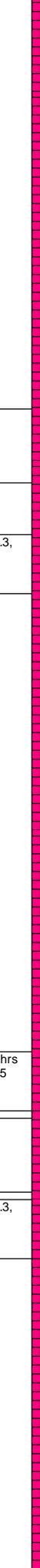
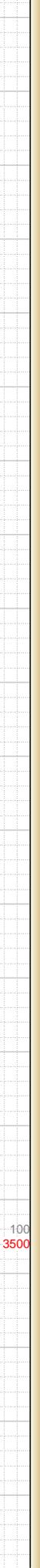
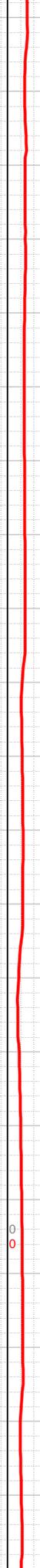
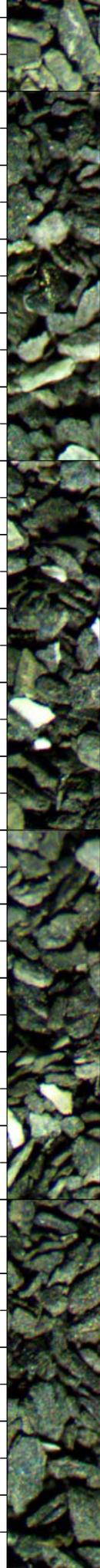
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-15680  
-15690  
-15700  
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-15693 INC  
91.01, AZM  
90.97, TVD  
6232.76

-15710 WT 9.3,  
VIS 30

-15780 0000 hrs  
on 12/22/2015

-15789 INC  
89.96, AZM  
88.42, TVD  
6231.95

-15800 WT 9.3,  
VIS 30

-15700 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; mod fos frags; mod bent; tr pyr; fnt cut flor

-15750 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; mod fos frags; mod bent; tr pyr; fair cut flor; pale lt blu res cut

-15800 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 fos frags; mod bent; tr pyr; fnt cut flor

-15850 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; mod fos frags; mod bent; tr pyr; fnt cut flor

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6300

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6200

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1750

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3500

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400

100  
800

