

OPERATOR: **Bill Barrett Corp**

WELL NAME: **Anschutz State 5-62-22-1609B2**

FIELD NAME: Wattenberg

DRILLING RIG: Cade 24

API #: 05-123-41811

SCALE: 5" = 100'

SURFACE HOLE: 660 FNL, 375 FWL

LOCATION: NWNW Sec 22, T5N, R62W



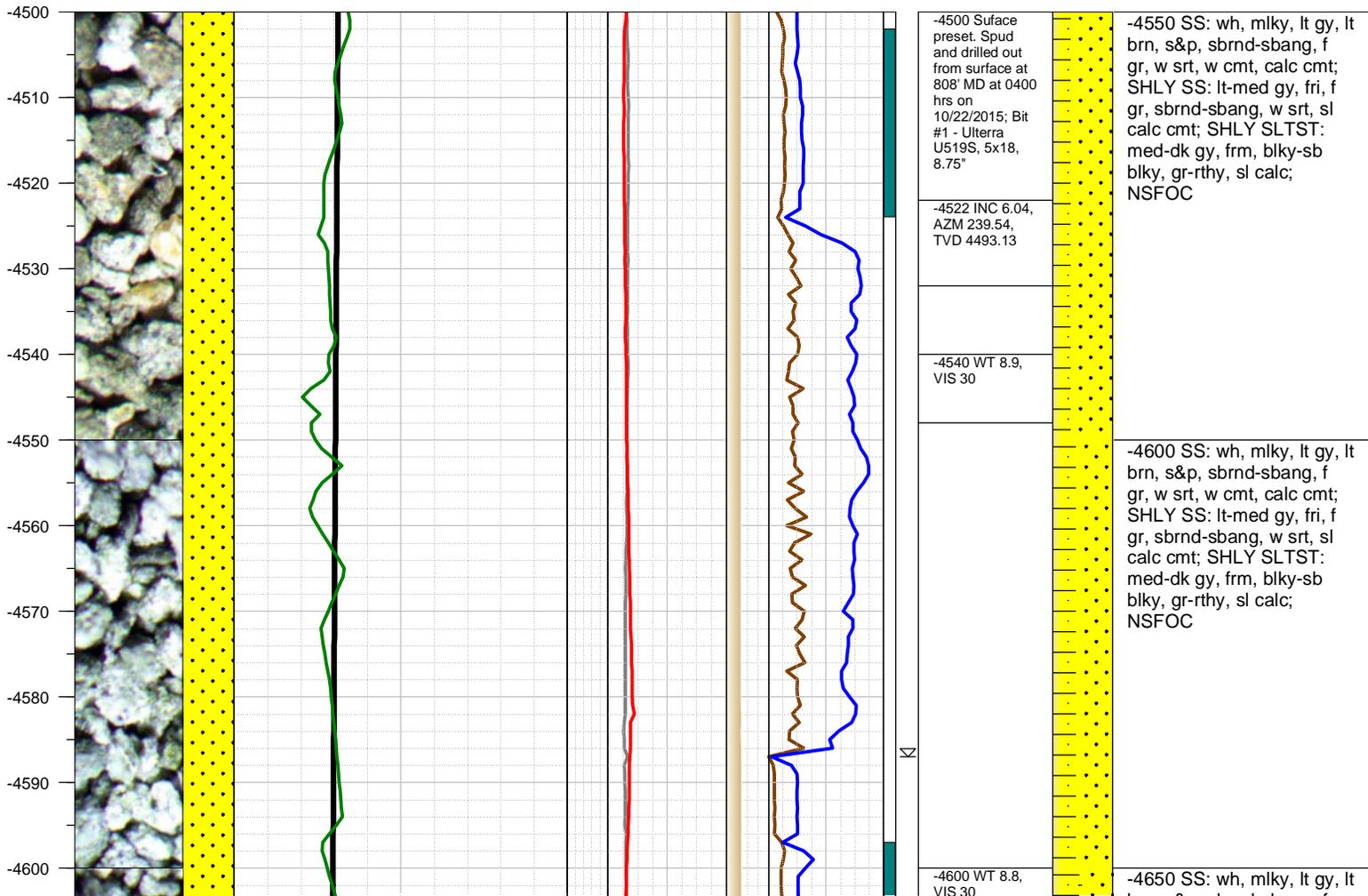
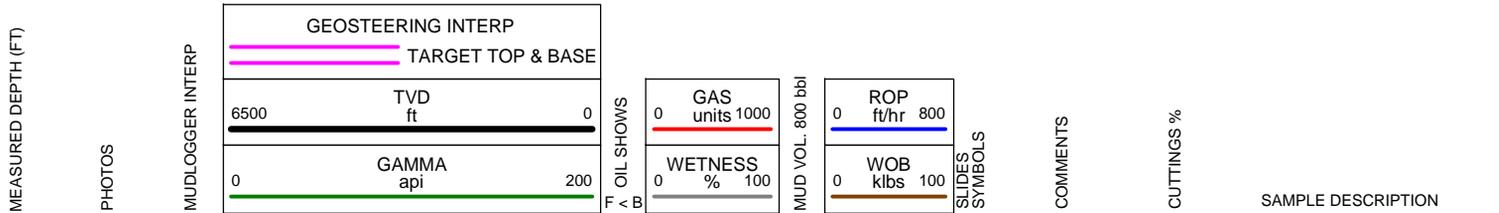
Earth Science Agency, LLC

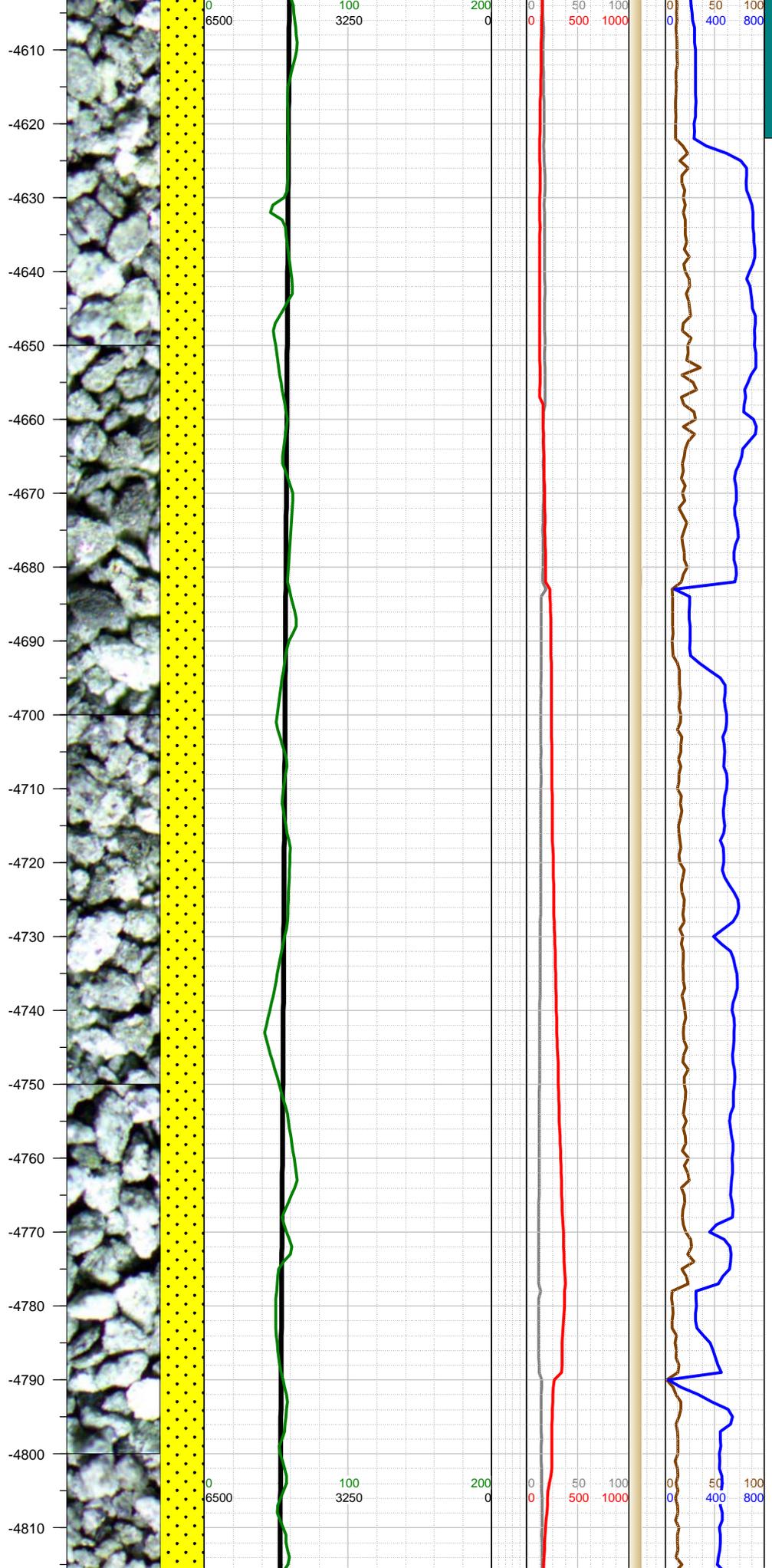
COUNTY: Weld
 STATE: Colorado
 GROUND ELEVATION: 4730'
 KELLY BUSHING: 4746'
 DRILLING FLUID: LSND
 TVD VS. MD: 6297' / 16391'
 SPUD DATE:
 BEGIN LOGGING: 4500'; October 22, 2015
 TD DATE: October 28, 2015
 DATES LOGGED: October 22, 2015 - October 28, 2015
 DEPTHS LOGGED: 4500' - 16391'
 LOGGER: Blue Spikes, Joe Coon, 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





-4616 INC 7.11,
AZM 235.49,
TVD 4586.51

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 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 8.8,
VIS 30

-4750 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

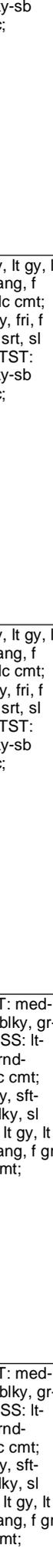
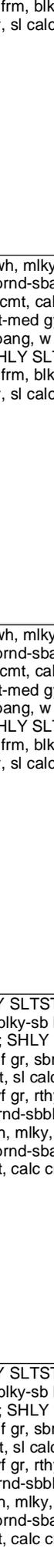
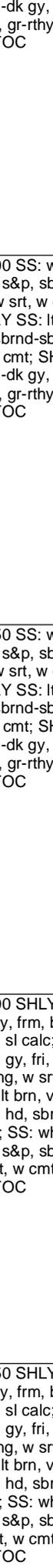
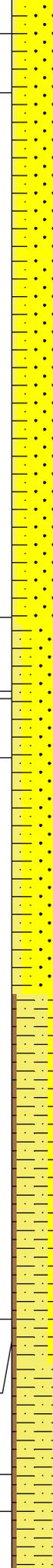
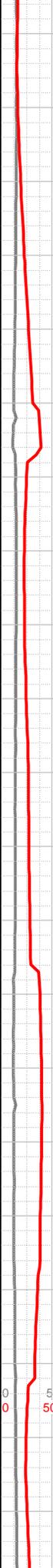
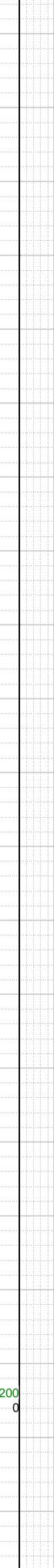
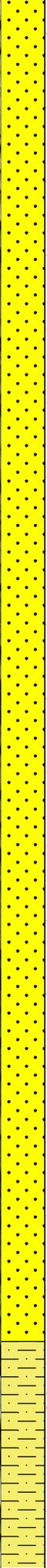
-4710 INC 6.77,
AZM 229.49,
TVD 4679.82

-4800 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

-4804 INC 6.48,
AZM 227.68,
TVD 4773.19

-4850 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:

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-4980
-4990
-5000
-5010
-5020



-4820 WT 8.8,
VIS 30

-4899 INC 6.65,
AZM 227.65,
TVD 4867.57

-4910 WT 8.8,
VIS 30

-4994 INC 4.88,
AZM 220.73,
TVD 4962.09

-4997 Top
Shannon
Formation;
4965' TVD

-5020 WT 8.8,
VIS 30

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

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

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

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

-5050 SHLY SLTST: med-
dk gy, frm, blkly-sb blkly, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbbkly, sl
calc; SS: wh, mlky, lt gy, lt
brn, s&p, sbrnd-sbang, f gr,
w srt, w cmt, calc cmt;
NSFOC

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6500

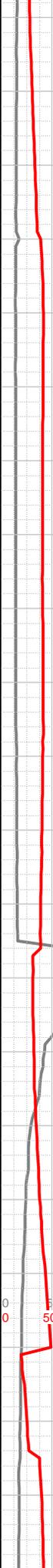
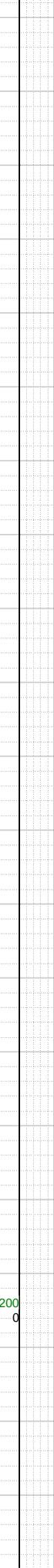
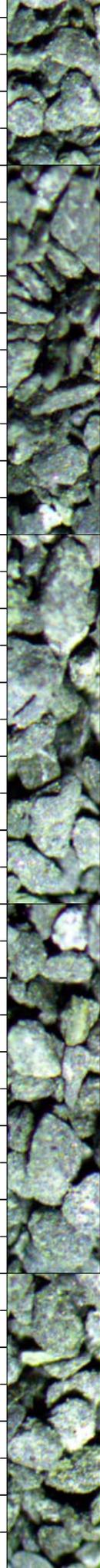
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3250

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0 500 1000

0 50 100
0 400 800

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-5240



-5089 INC 2.75,
AZM 211.28,
TVD 5056.87

-5100 WT 9.7,
VIS 33

-5183 INC 1.52,
AZM 195.11,
TVD 5150.81

-5200 WT 9.7,
VIS 33

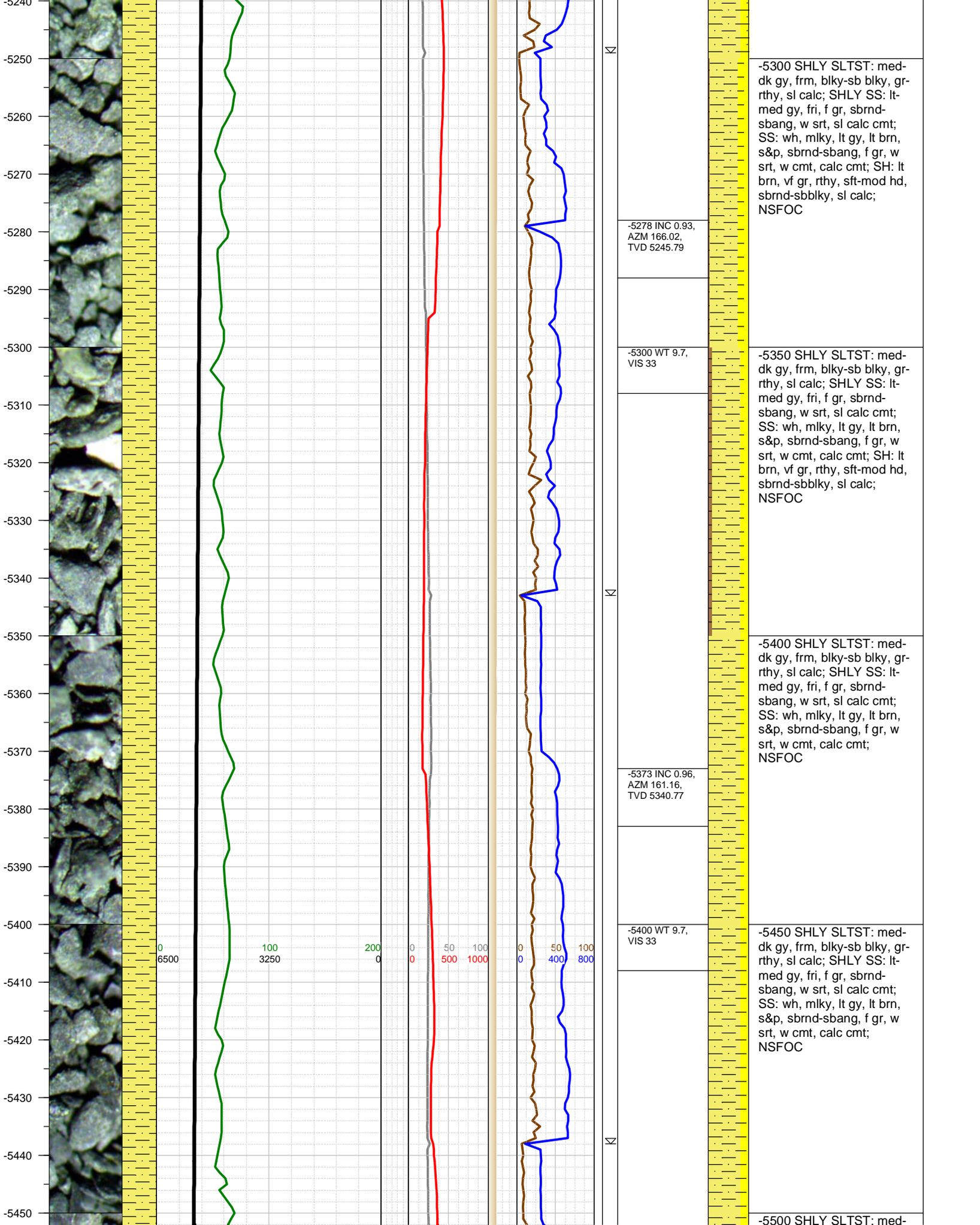
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dk gy, frm, blkly-sb blkly, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbbkly, sl
calc; SS: wh, mlky, lt gy, lt
brn, s&p, sbrnd-sbang, f gr,
w srt, w cmt, calc cmt;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

-5150 SHLY SLTST: med-
dk gy, frm, blkly-sb blkly, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbbkly, sl
calc; NSFOC

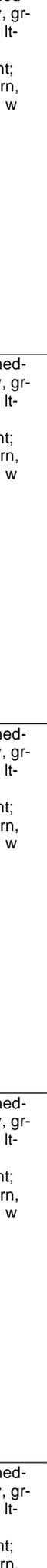
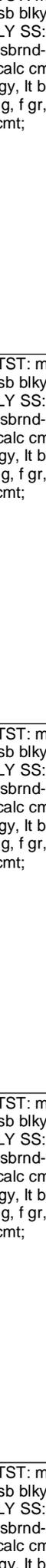
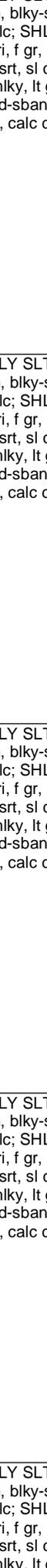
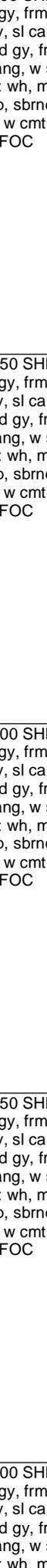
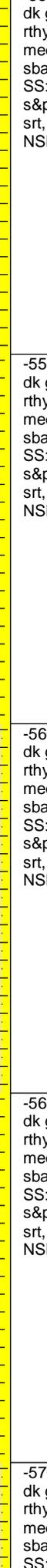
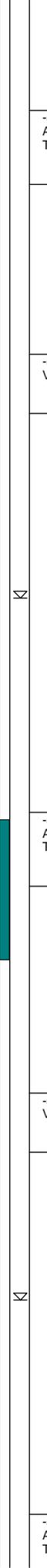
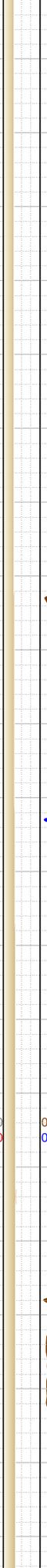
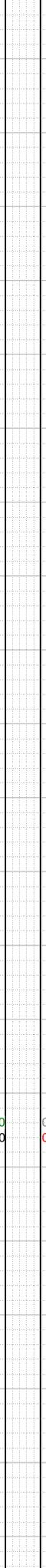
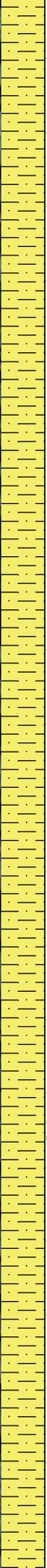
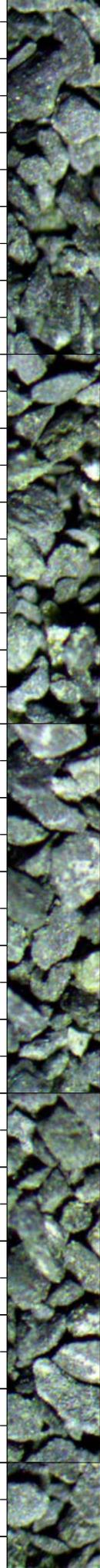
-5200 SHLY SLTST: med-
dk gy, frm, blkly-sb blkly, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;
SH: lt brn, vf gr, rthy, sft-
mod hd, sbrnd-sbbkly, sl
calc; NSFOC

-5250 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;
NSFOC

0 100 200 0 50 100 0 50 100
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-5467 INC 1.02,
AZM 138.71,
TVD 5434.76

-5500 WT 9.8,
VIS 34

-5562 INC 1.13,
AZM 140.33,
TVD 5529.74

-5600 WT 9.8,
VIS 34

-5657 INC 0.71,
AZM 153.44,
TVD 5624.73

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

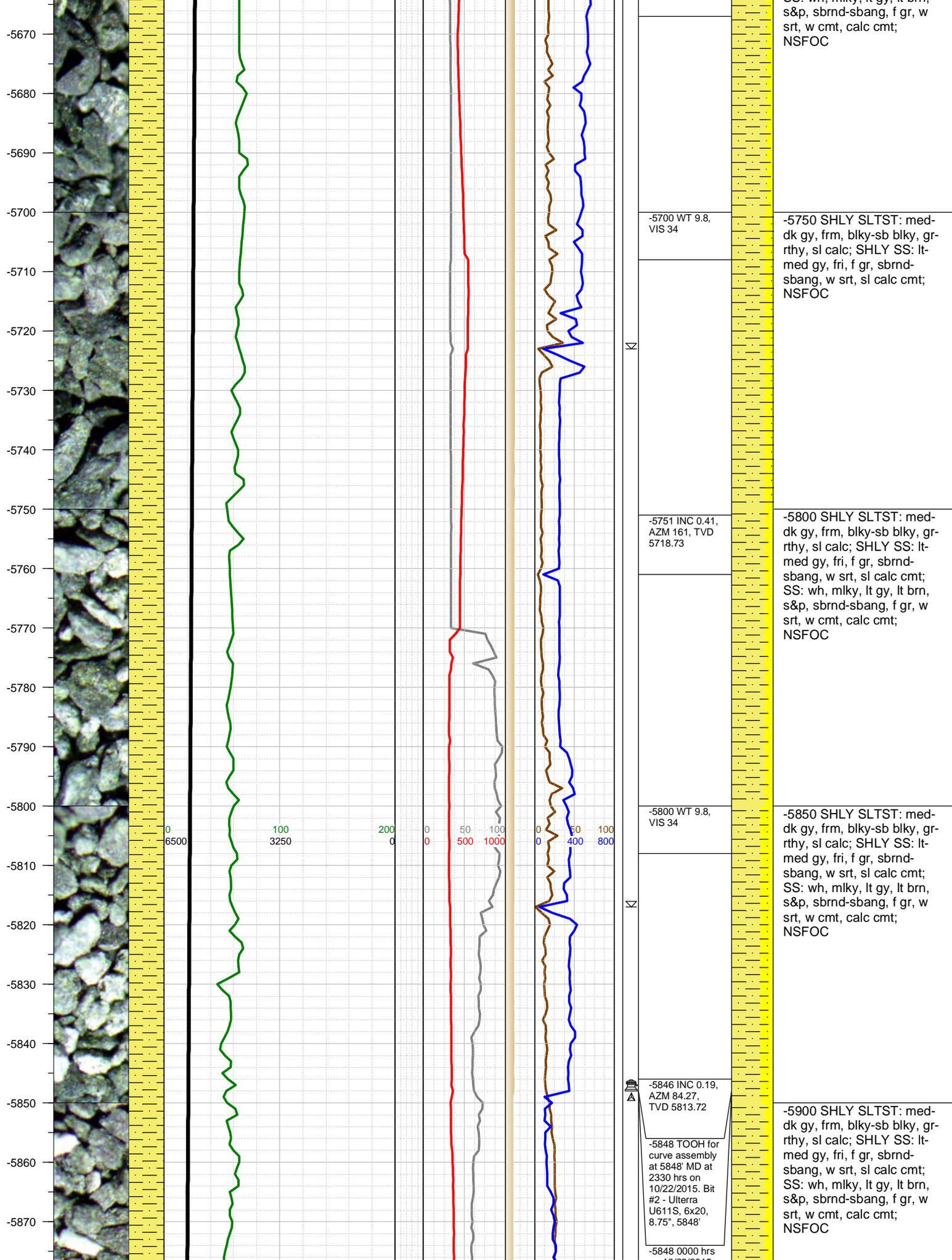
-5550 SHLY SLTST: med-dk gy, frm, blk-sb blk, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; NSFOC

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

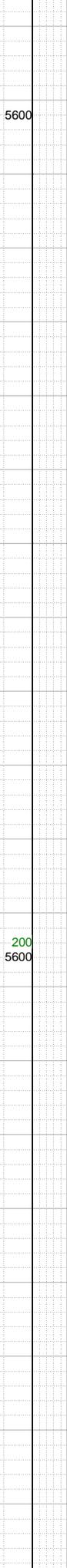
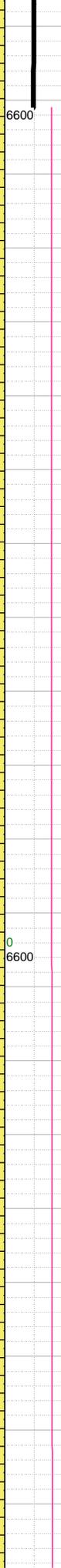
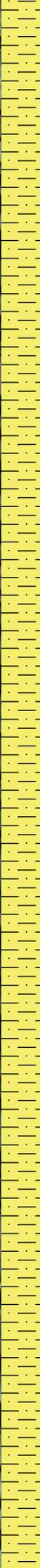
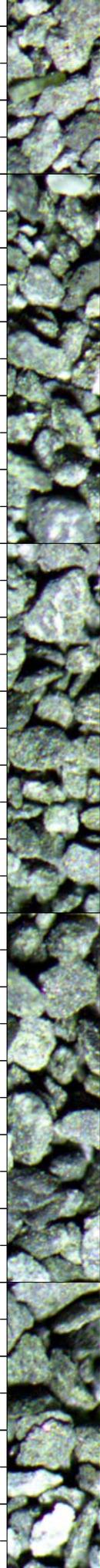
-5650 SHLY SLTST: med-dk gy, frm, blk-sb blk, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; NSFOC

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

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



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6600

6100

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-5891 Reached KOP at 5891' MD, 5,859' TVD at 0720 hrs on 10/23/2015 and began drilling the curve.

-5891 Change TVD Scale

-5930 WT 10.1, VIS 42

-5941 INC 7.83, AZM 58.96, TVD 5908.42

-6000 WT 10.1, VIS 42

-6035 INC 20.87, AZM 69.13, TVD 5999.3

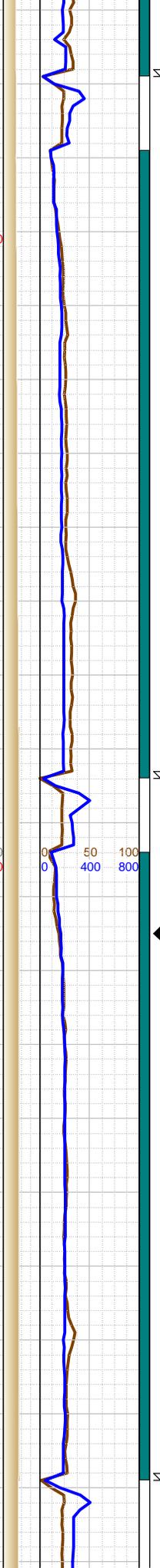
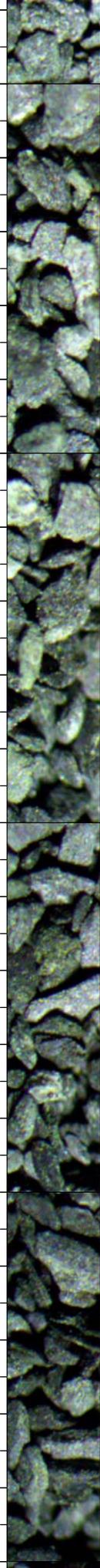
-5950 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; NSFOC

-6000 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; NSFOC

-6050 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; NSFOC

-6100 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; NSFOC

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-6300



-6100 WT 10.1, VIS 42

-6120 Change TGas Scale

-6130 INC 29.53, AZM 83.68, TVD 6085.26

-6200 WT 9.8, VIS 33

-6215 Top Sharon Springs Formation; 6155' TVD

-6225 INC 40.79, AZM 92.83, TVD 6162.85

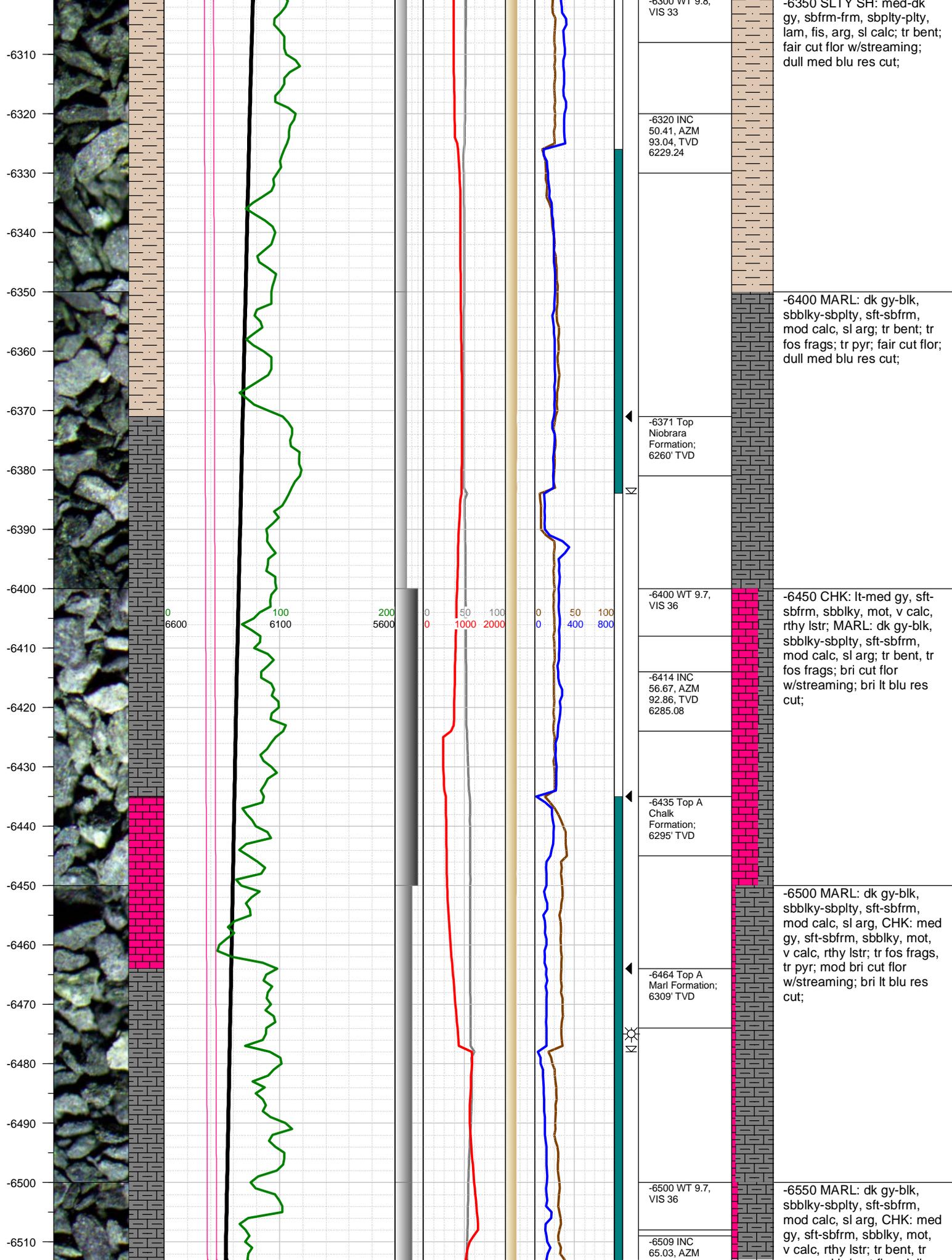
-6300 WT 9.8

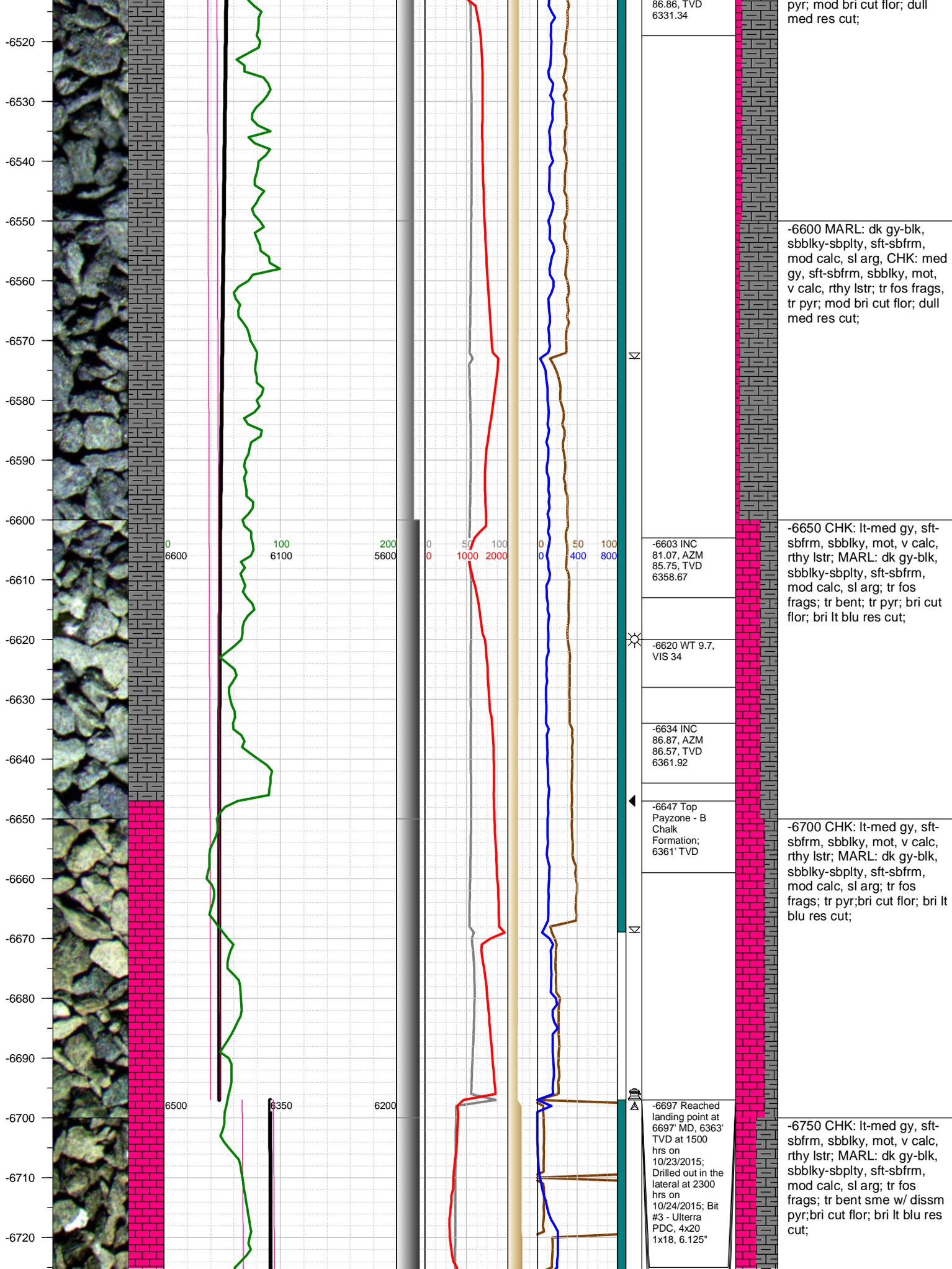
-6150 SHLY SLTST: med-dk gy, frm, blkly-sb blkly, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt; SS: wh, mlky, lt gy, lt brn, s&p, sbrnd-sbang, f gr, w srt, w cmt, calc cmt; NSFOC

-6200 SHLY SLTST: med-dk gy, frm, blkly-sb blkly, gr-rthy, sl calc; SLTY SH: med-dk gy, sbfrm-frm, sbply-pty, lam, fis, arg, sl calc; NSFOC

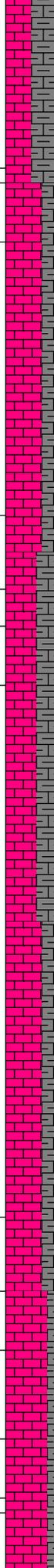
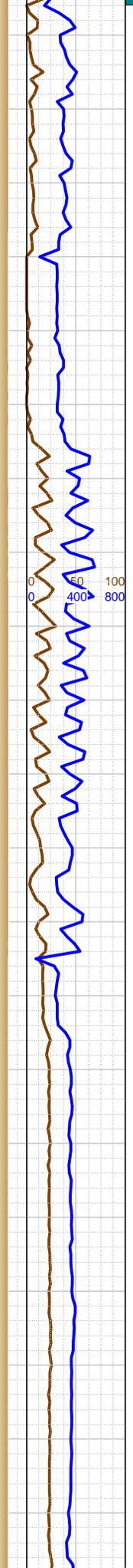
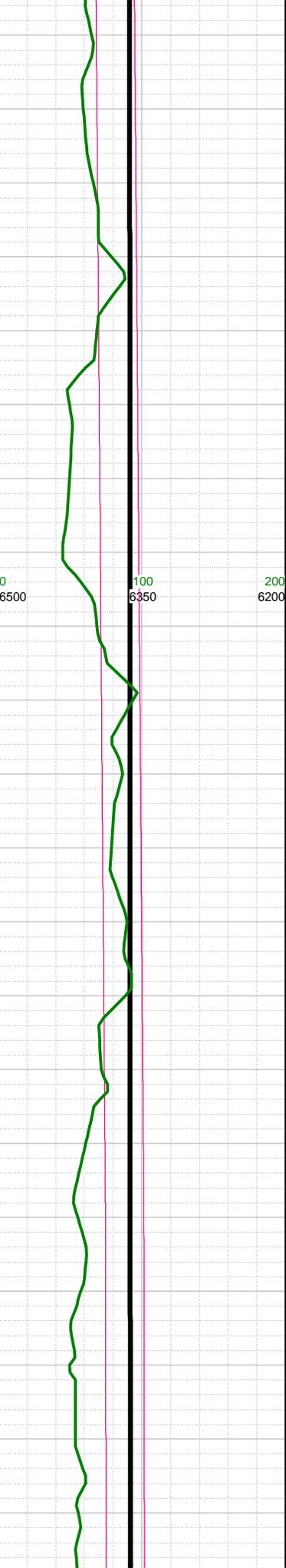
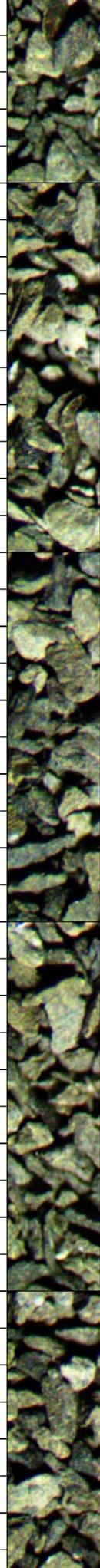
-6250 SLTY SH: med-dk gy, sbfrm-frm, sbply-pty, lam, fis, arg, sl calc; SHLY SLTST: med gy, frm, blkly-sb blkly, gr-rthy, sl calc; fnt cut flr;

-6300 SLTY SH: med-dk gy, sbfrm-frm, sbply-pty, lam, fis, arg, sl calc; fnt cut flr;



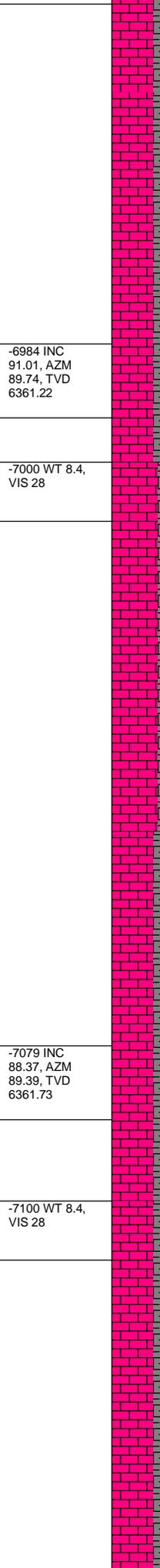
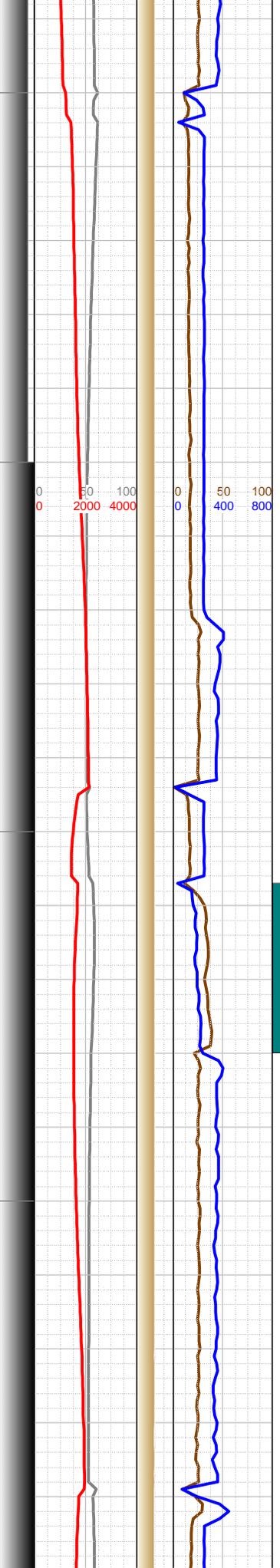
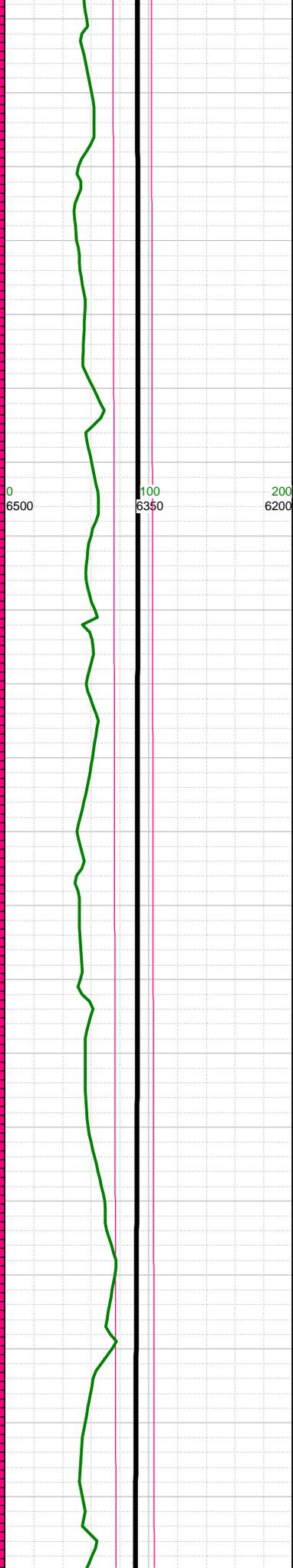
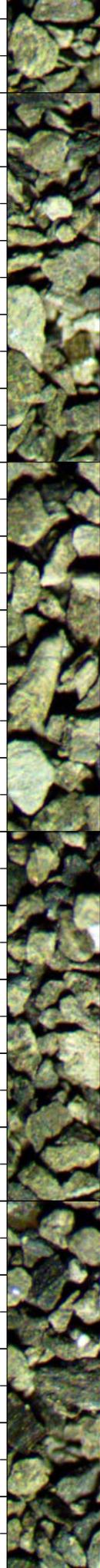


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-6697 Change TVD Scale
-6697 0000 hrs on 10/24/2015
-6700 INC 91.19, AZM 88.25, TVD 6363.04
-6750 WT 8.4, VIS 28
-6795 INC 89.96, AZM 89.65, TVD 6362.09
-6810 WT 8.4, VIS 28
-6850 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; bri cut flor; bri lt blu res cut;
-6900 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; v tr fos frags; bri cut flor; bri lt grn res cut;
-6890 INC 90.04, AZM 89.92, TVD 6362.09
-6900 WT 8.4, VIS 28
-6920 0000 hrs on 10/25/2015
-6930 Change TGas Scale

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-7000 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; v tr fos frags; tr forams; bri lt grn res cut;

-6984 INC
91.01, AZM
89.74, TVD
6361.22

-7000 WT 8.4,
VIS 28

-7050 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; v tr fos frags; tr forams; v bri cut flor w/streaming; v bri lt blu res cut;

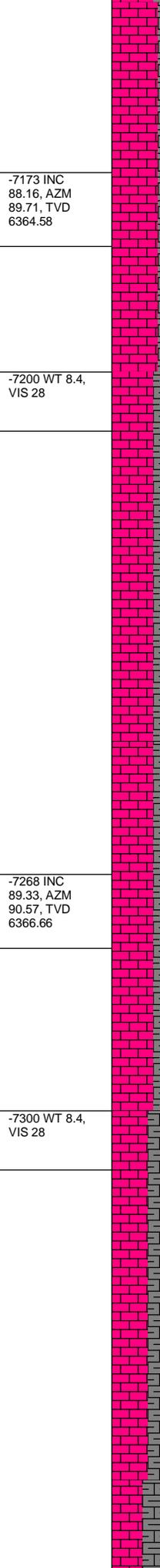
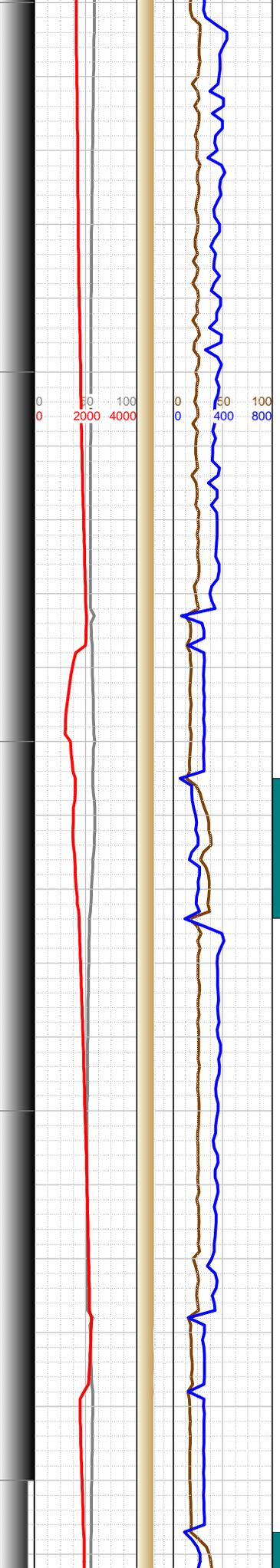
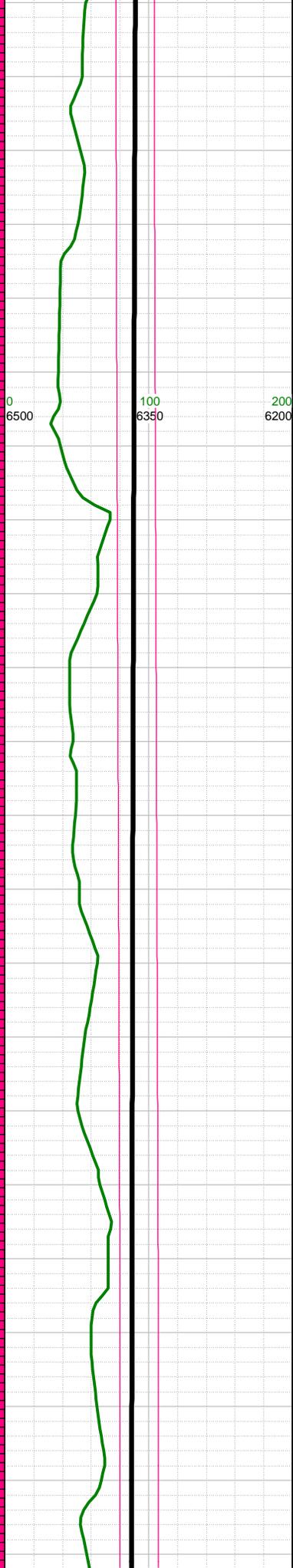
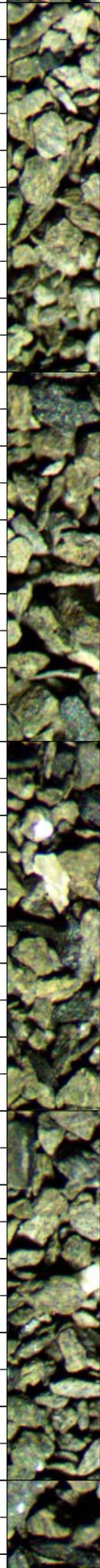
-7100 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr forams; v bri cut flor w/streaming; v bri lt blu res cut;

-7079 INC
88.37, AZM
89.39, TVD
6361.73

-7100 WT 8.4,
VIS 28

-7150 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 forams; v bri cut flor w/streaming; v bri lt blu res cut;

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

-7173 INC
88.16, AZM
89.71, TVD
6364.58

-7200 WT 8.4,
VIS 28

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

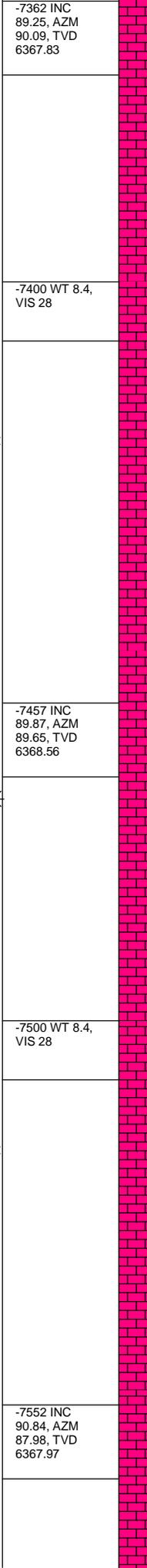
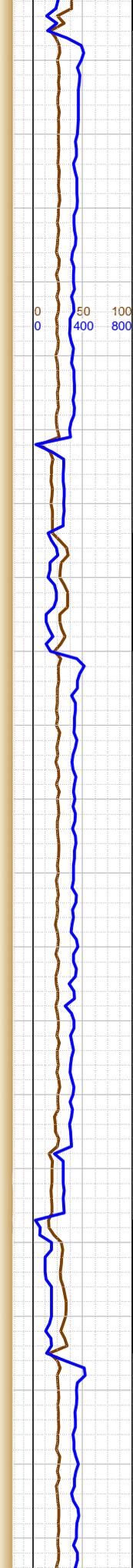
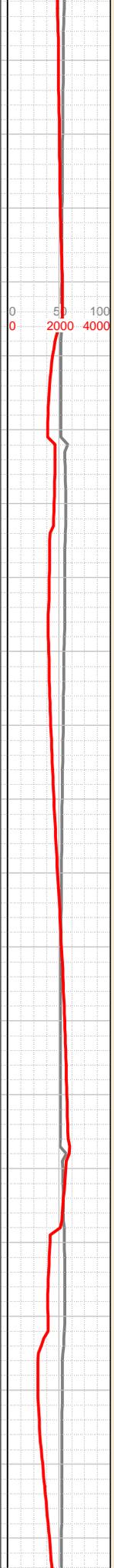
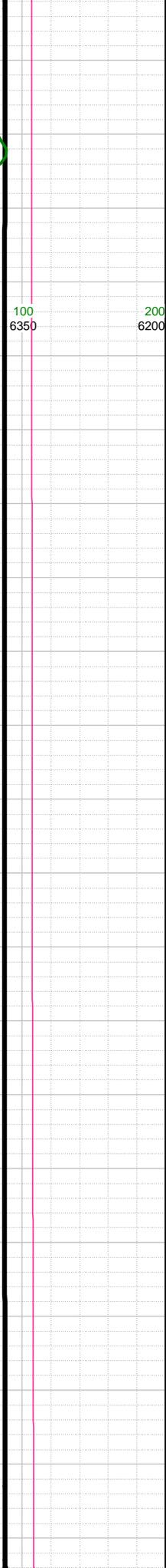
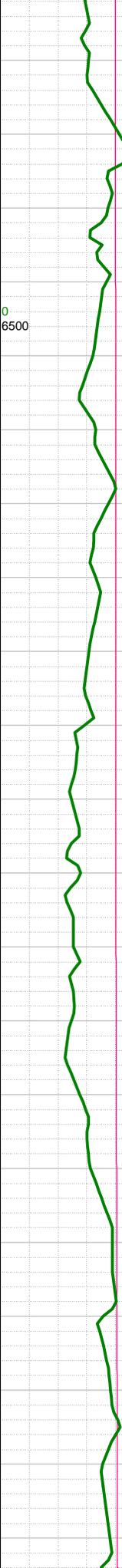
-7300 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; mod forams; v bri cut flor w/streaming; v bri lt blu res cut;

-7268 INC
89.33, AZM
90.57, TVD
6366.66

-7300 WT 8.4,
VIS 28

-7350 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl ara; tr

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-7362 INC
89.25, AZM
90.09, TVD
6367.83

-7400 WT 8.4,
VIS 28

-7457 INC
89.87, AZM
89.65, TVD
6368.56

-7500 WT 8.4,
VIS 28

-7552 INC
90.84, AZM
87.98, TVD
6367.97

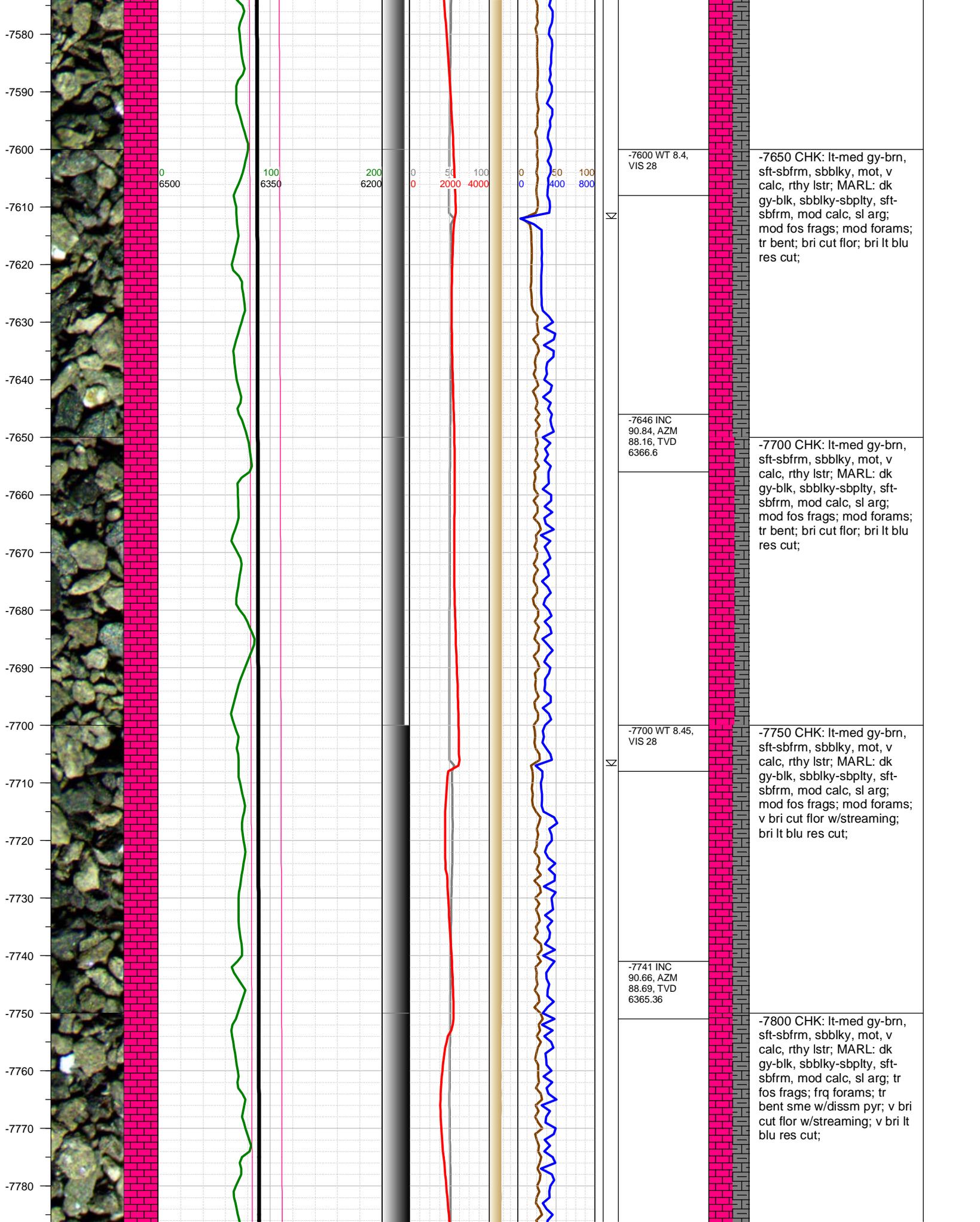
fos frags; mod forams; tr bent; bri cut flor; bri lt blu res cut;

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

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

-7550 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; frq forams; tr bent; bri cut flor; bri lt blu res cut;

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



-7600 WT 8.4,
VIS 28

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

-7646 INC
90.84, AZM
88.16, TVD
6366.6

-7700 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod fos frags; mod forams; tr bent; bri cut flr; bri lt blu res cut;

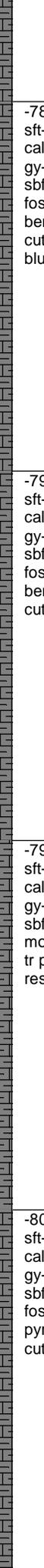
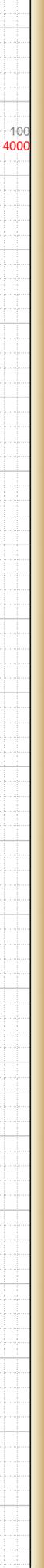
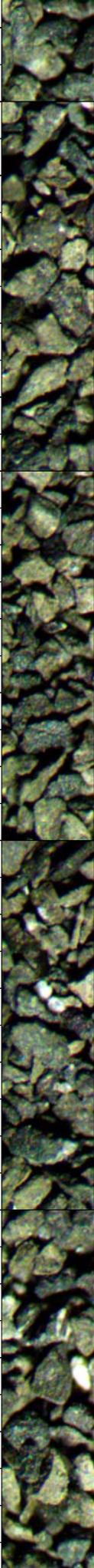
-7700 WT 8.45,
VIS 28

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

-7741 INC
90.66, AZM
88.69, TVD
6365.36

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

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-7800 WT 8.45, VIS 28

-7835 INC 91.1, AZM 89.22, TVD 6363.92

-7900 WT 8.45, VIS 28

-7930 INC 91.98, AZM 89.92, TVD 6361.37

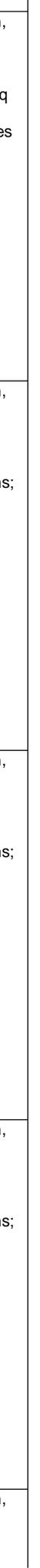
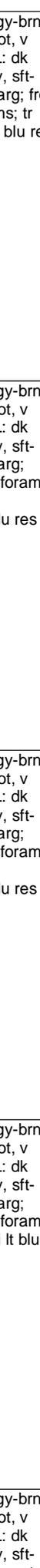
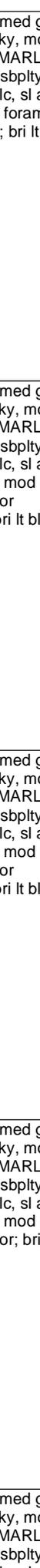
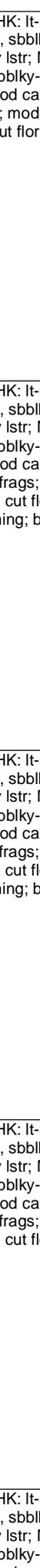
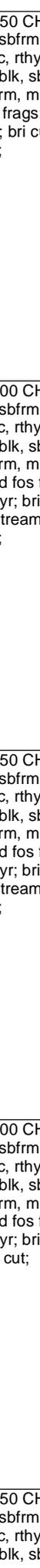
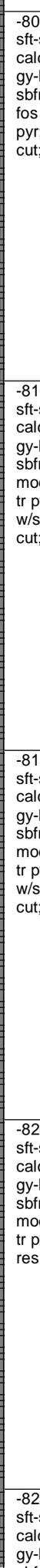
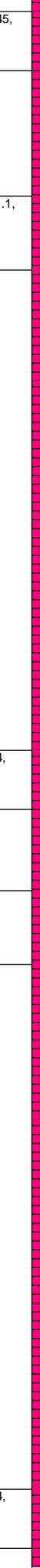
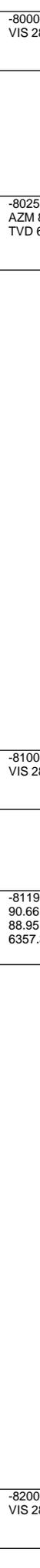
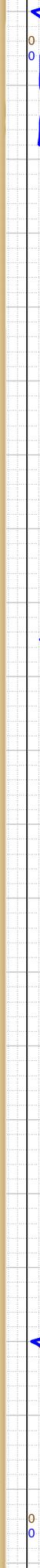
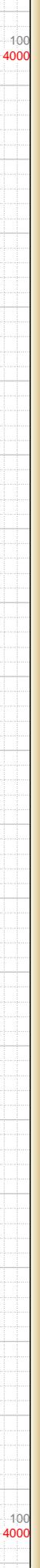
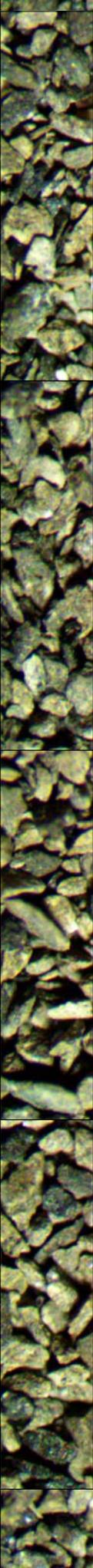
-7850 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; frq forams; tr bent sme w/dissm pyr; bri cut flor w/streaming; bri lt blu res cut;

-7900 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; frq forams; tr bent sme w/dissm pyr; bri cut flor; bri lt blu res cut;

-7950 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 forams; tr pyr; bri cut flor; bri lt blu res cut;

-8000 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; frq fos frags; mod forams; tr pyr; bri cut flor; bri lt blu res cut;

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-8000 WT 8.45, VIS 28

-8025 INC 91.1, AZM 88.51, TVD 6358.82

-8100 WT 8.4, VIS 28

-8119 INC 90.66, AZM 88.95, TVD 6357.38

-8200 WT 8.4, VIS 28

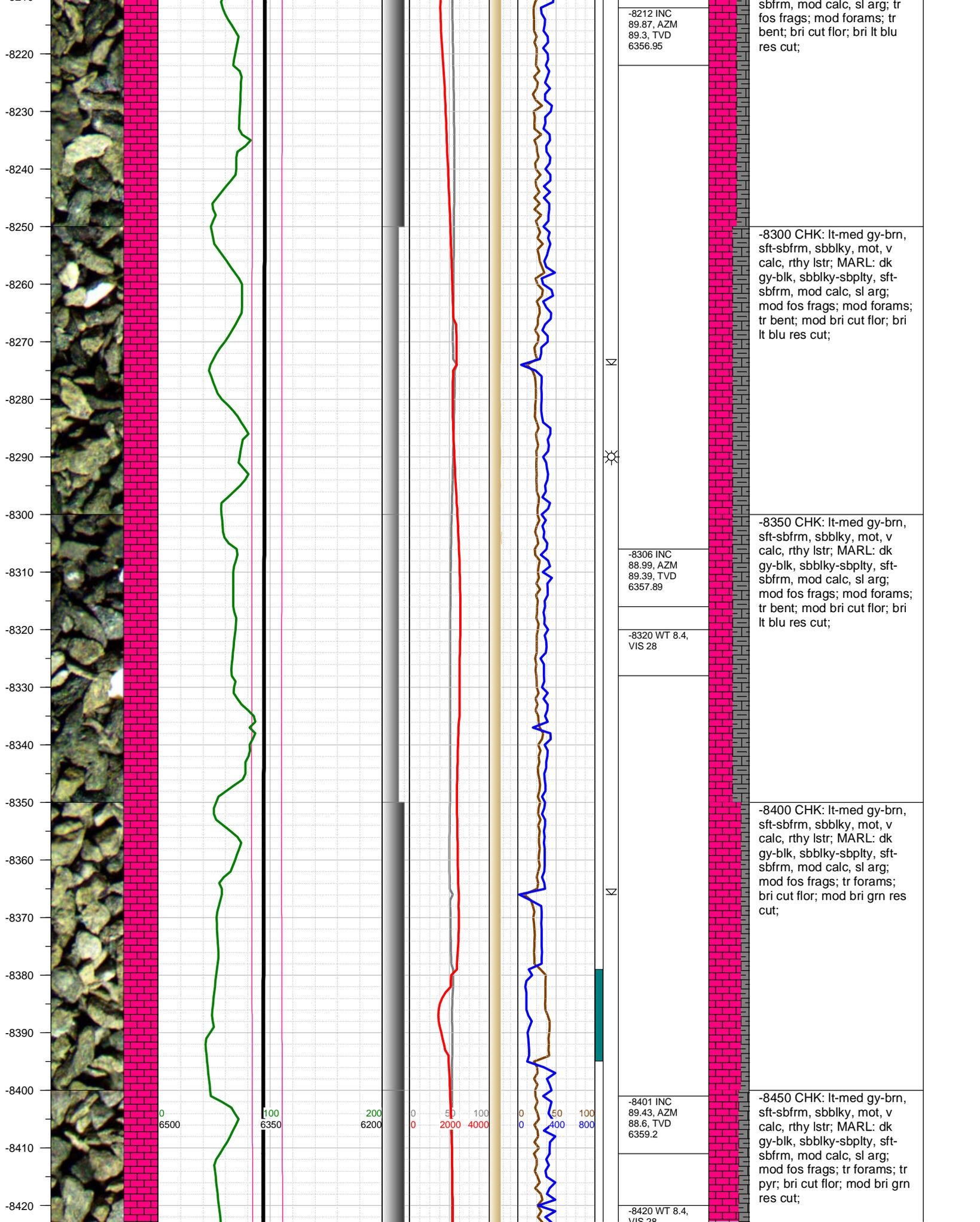
-8050 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; frq fos frags; mod forams; tr pyr; bri cut flor; bri lt blu res cut;

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

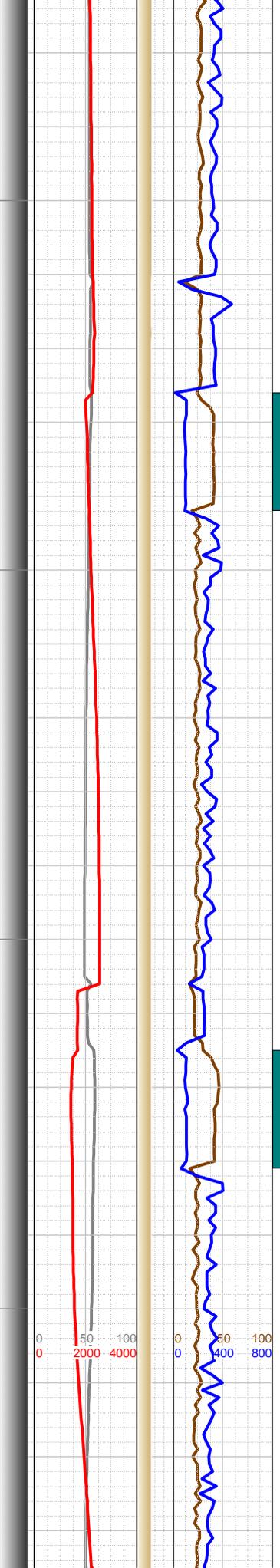
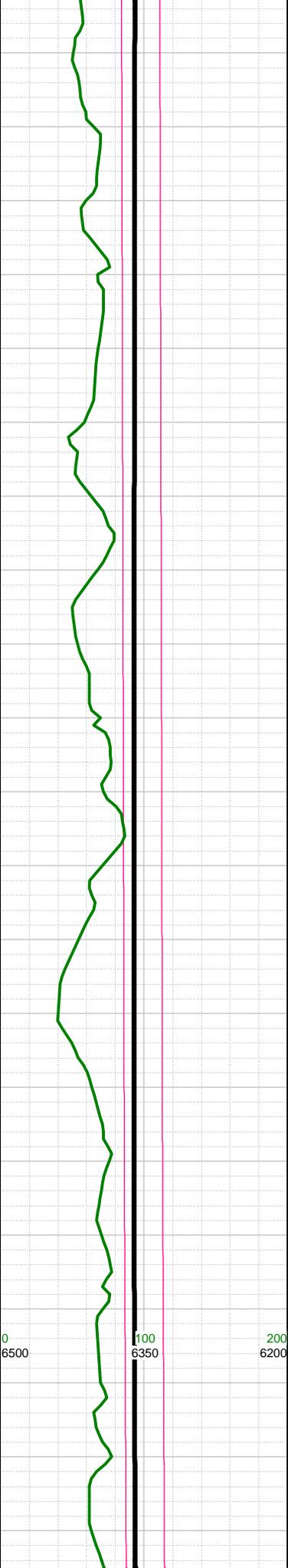
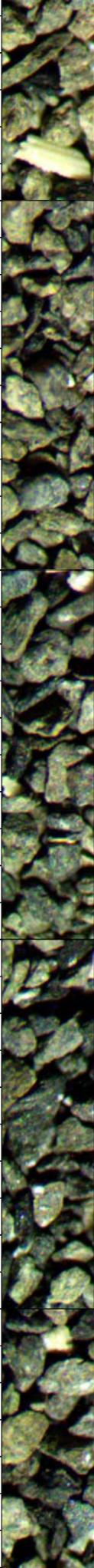
-8150 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; mod fos frags; mod forams; tr pyr; bri cut flor w/streaming; bri lt blu res cut;

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

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



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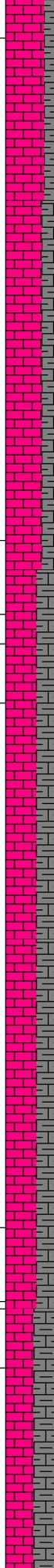
VIS 28

-8496 INC 89.6,
AZM 88.95,
TVD 6360

-8510 WT 8.4,
VIS 28

-8589 INC
90.22, AZM
89.65, TVD
6360.14

-8600 WT 8.4,
VIS 28



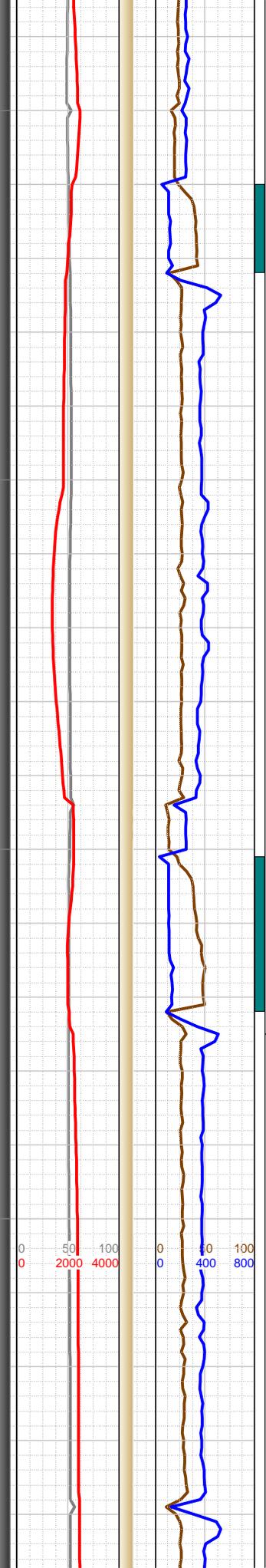
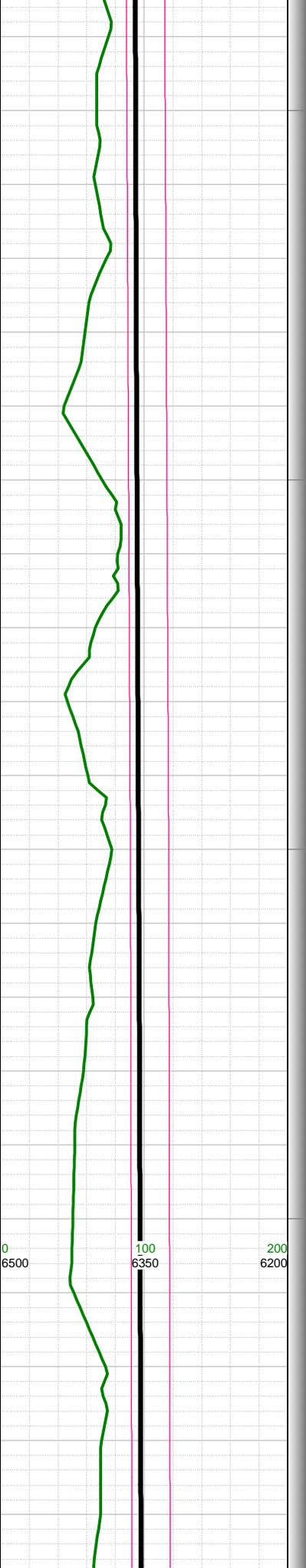
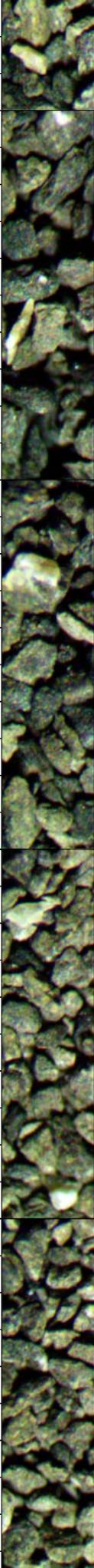
-8500 CHK: lt-med gy-brn,
sft-sbfrm, sbbiky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbiky-sbplty, sft-
sbfrm, mod calc, sl arg; tr
fos frags; tr forams; tr pyr;
bri cut flor w/streaming; bri
lt blu res cut;

-8550 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;
abndt fos frags; frq forams;
bri cut flor; bri lt blu res
cut;

-8600 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
bent; mod fos frags; tr
forams; bri cut flor
w/streaming; bri lt blu res
cut;

-8650 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;
mod fos frags; frq forams;
bri cut flor w/streaming; bri
lt blu res cut;

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-8683 INC
92.42, AZM
90.45, TVD
6357.98

-8700 WT 8.4,
VIS 28

-8778 INC
91.54, AZM
88.07, TVD
6354.7

-8800 WT 8.4,
VIS 28

-8700 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 forams; bri cut flor; bri lt blu res cut;

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

-8800 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; frq forams; bri cut flor; bri lt blu res cut;

-8850 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; frq forams; bri cut flor w/streaming; bri lt blu res cut;

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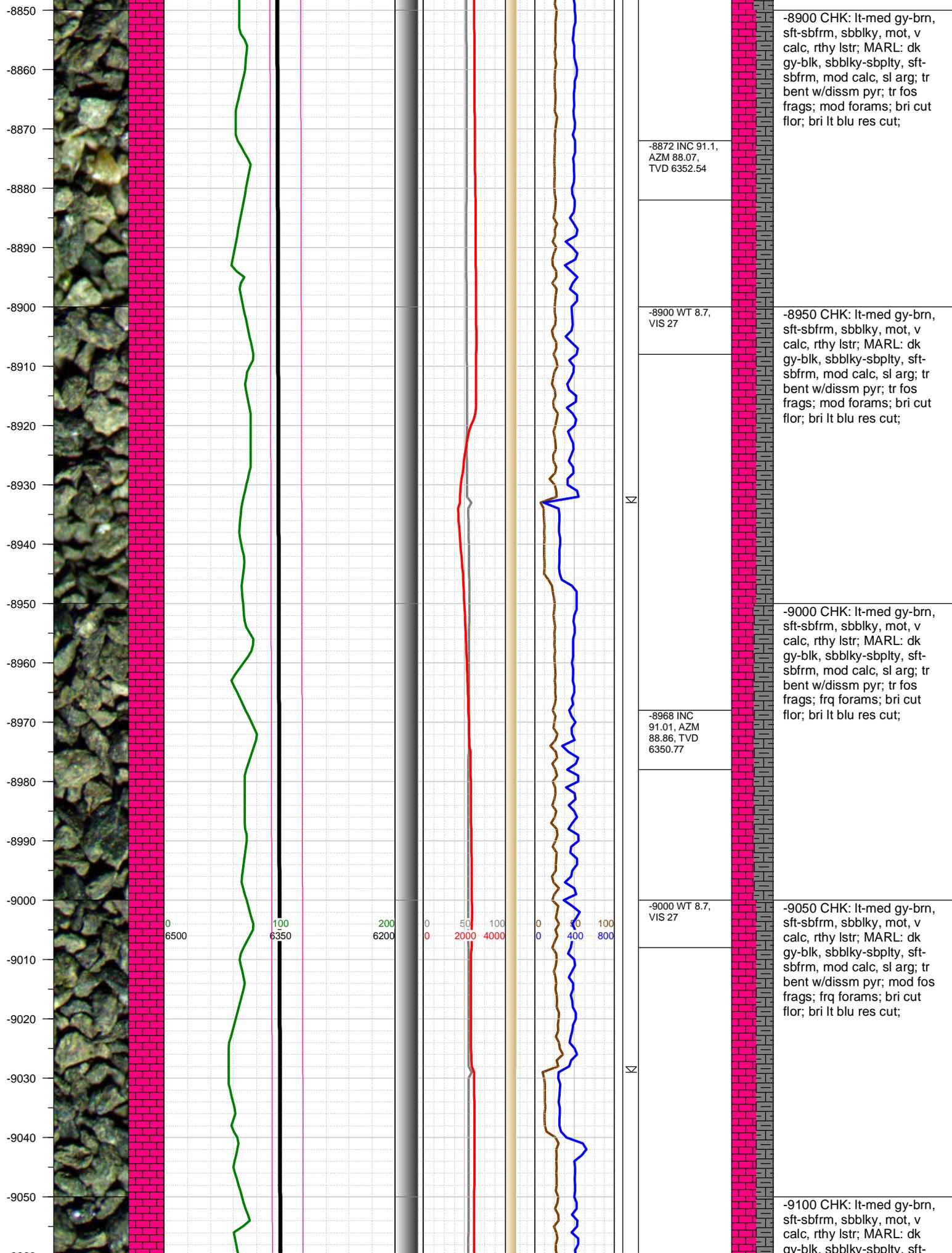
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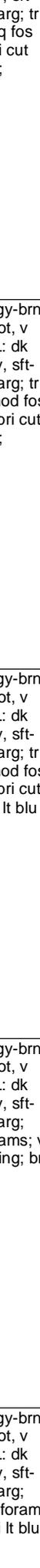
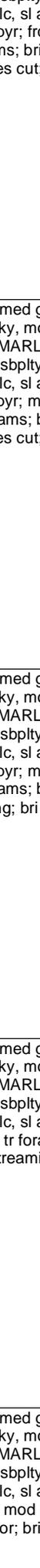
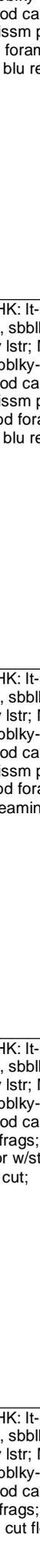
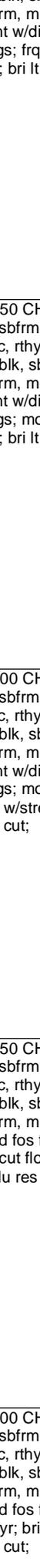
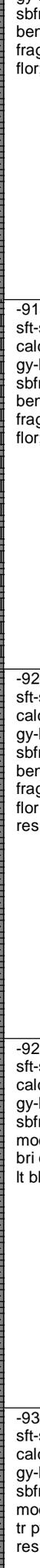
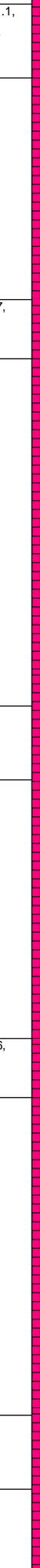
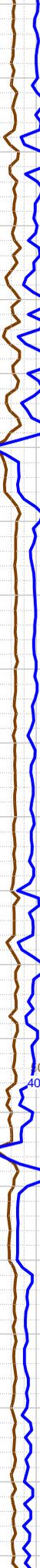
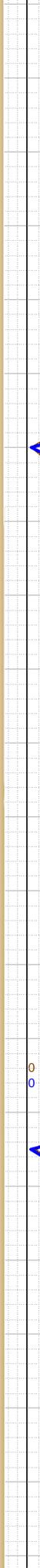
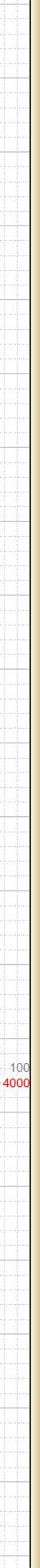
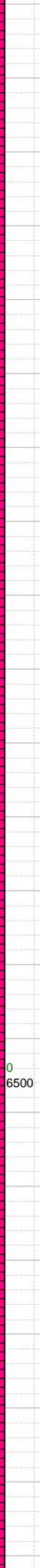
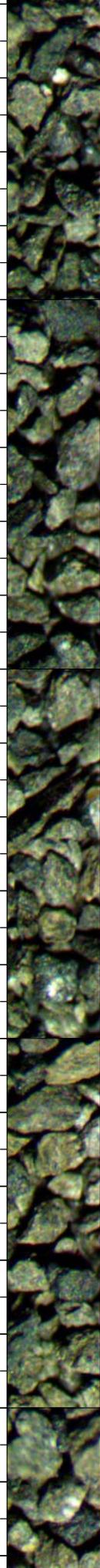
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-9060 INC 91.1,
AZM 88.51,
TVD 6349.07

-9100 WT 8.7,
VIS 29

-9155 INC
90.57, AZM
88.86, TVD
6347.69

-9200 WT 8.6,
VIS 28

-9251 INC
89.43, AZM
88.78, TVD
6347.69

sbfrfm, mod calc, sl arg; tr
bent w/dissm pyr; frq fos
frags; frq forams; bri cut
flor; bri lt blu res cut;

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

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

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

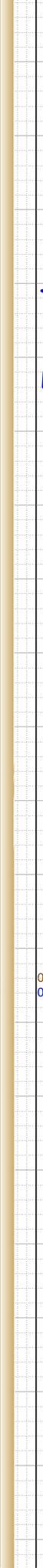
-9300 CHK: lt-med gy-brn,
sft-sbfrfm, sbbiky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbiky-sbplty, sft-
sbfrfm, mod calc, sl arg;
mod fos frags; mod forams;
tr pyr; bri cut flor; bri lt blu
res cut;

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-9300 WT 8.6,
VIS 28

-9345 INC 90.4,
AZM 88.95,
TVD 6347.83

-9400 WT 8.6,
VIS 28

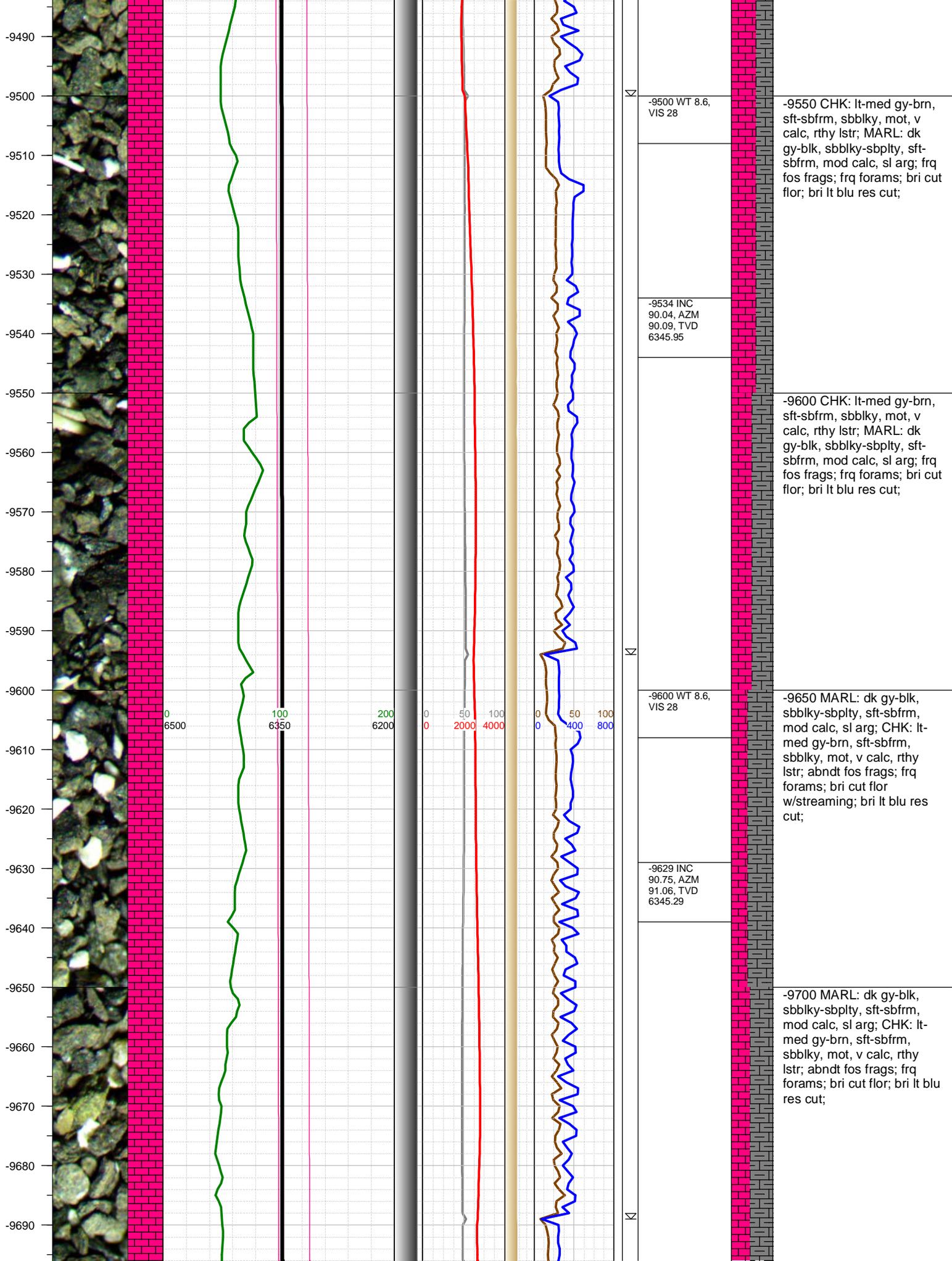
-9439 INC
90.92, AZM
89.57, TVD
6346.75

-9350 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg; frq
fos frags; frq forams; tr
bent; bri cut flor; bri lt blu
res cut;

-9400 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg; frq
fos frags; frq forams; bri cut
flor; bri lt blu res cut;

-9450 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg; frq
fos frags; frq forams; tr
bent sme w/dissm pyr; bri
cut flor; bri lt blu res cut;

-9500 CHK: lt-med gy-brn,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg; frq
fos frags; frq forams; bri cut
flor; bri lt blu res cut;



-9500 WT 8.6,
VIS 28

-9550 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; frq fos frags; frq forams; bri cut flor; bri lt blu res cut;

-9534 INC
90.04, AZM
90.09, TVD
6345.95

-9600 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; frq fos frags; frq forams; bri cut flor; bri lt blu res cut;

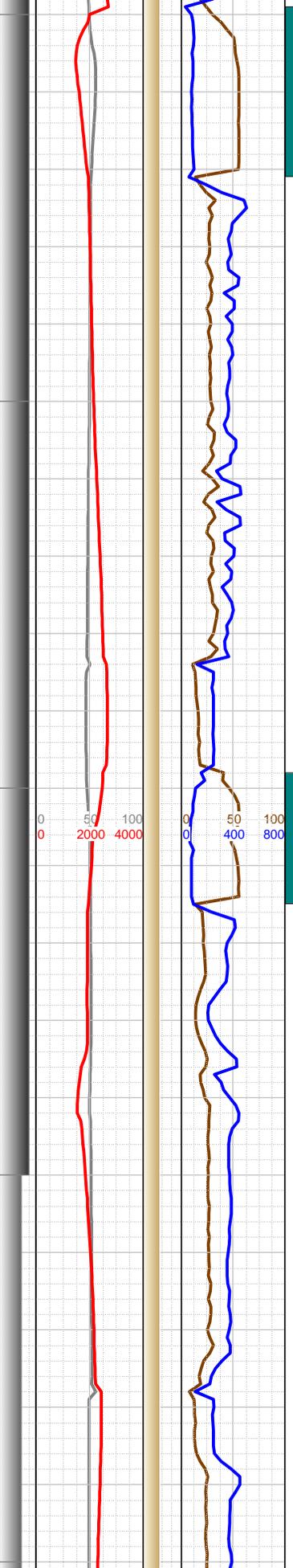
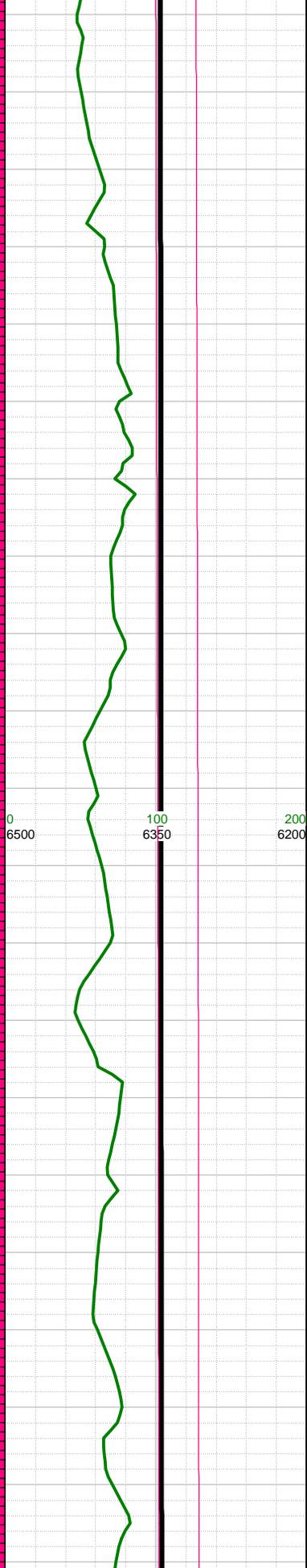
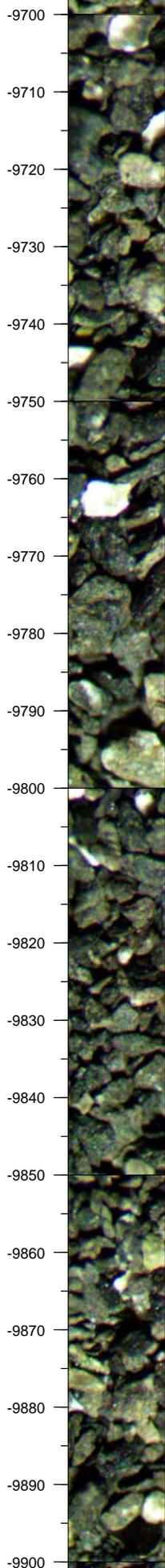
-9600 WT 8.6,
VIS 28

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

-9629 INC
90.75, AZM
91.06, TVD
6345.29

-9700 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; abndt fos frags; frq forams; bri cut flor; bri lt blu res cut;

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6500 6350 6200 0 2000 4000 0 400 800



-9700 WT 8.7, VIS 28
-9723 INC 89.34, AZM 88.69, TVD 6345.22
-9800 WT 8.7, VIS 28
-9818 INC 90.92, AZM 87.55, TVD 6345
-9900 WT 8.7, VIS 28

-9750 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; frq fos frags; frq forams; bri lt blu res cut;

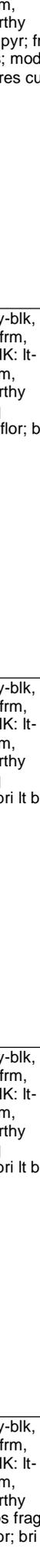
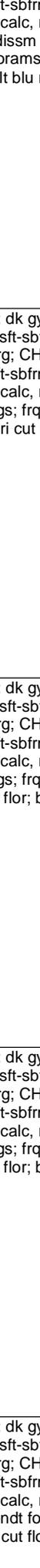
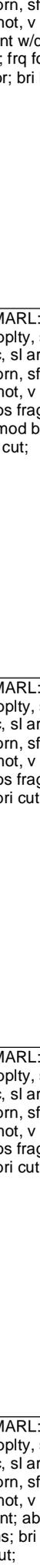
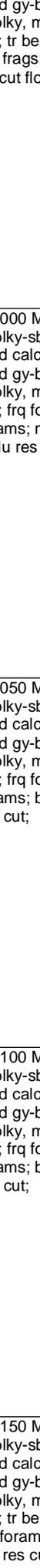
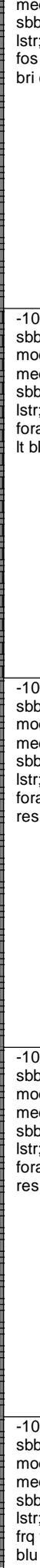
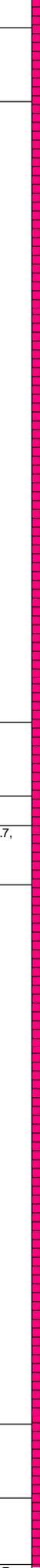
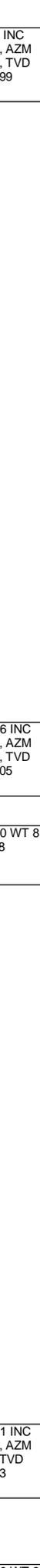
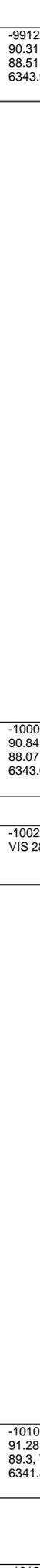
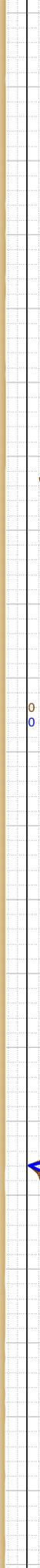
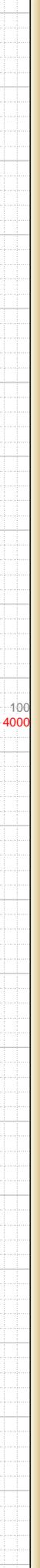
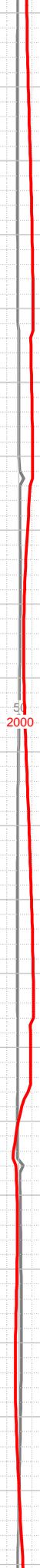
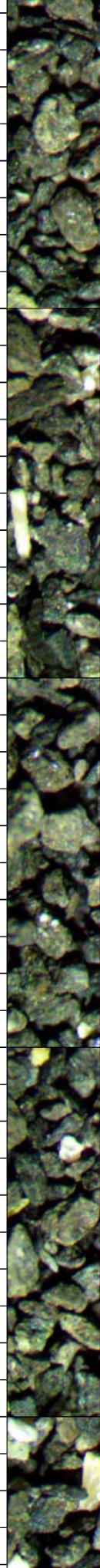
-9800 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; frq fos frags; frq forams; bri cut flor; bri lt blu res cut;

-9850 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; frq forams; 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 bent w/dissm pyr; frq fos frags; frq forams; mod bri cut flor; bri lt blu res cut;

-9950 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-

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-9912 INC
90.31, AZM
88.51, TVD
6343.99

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

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

-10050 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy-brn, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; frq fos frags; frq
forams; bri cut flor; bri lt blu
res cut;

-10006 INC
90.84, AZM
88.07, TVD
6343.05

-10020 WT 8.7,
VIS 28

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

-10101 INC
91.28, AZM
89.3, TVD
6341.3

-10150 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 bent; abndt fos frags;
frq forams; bri cut flor; bri lt
blu res cut;

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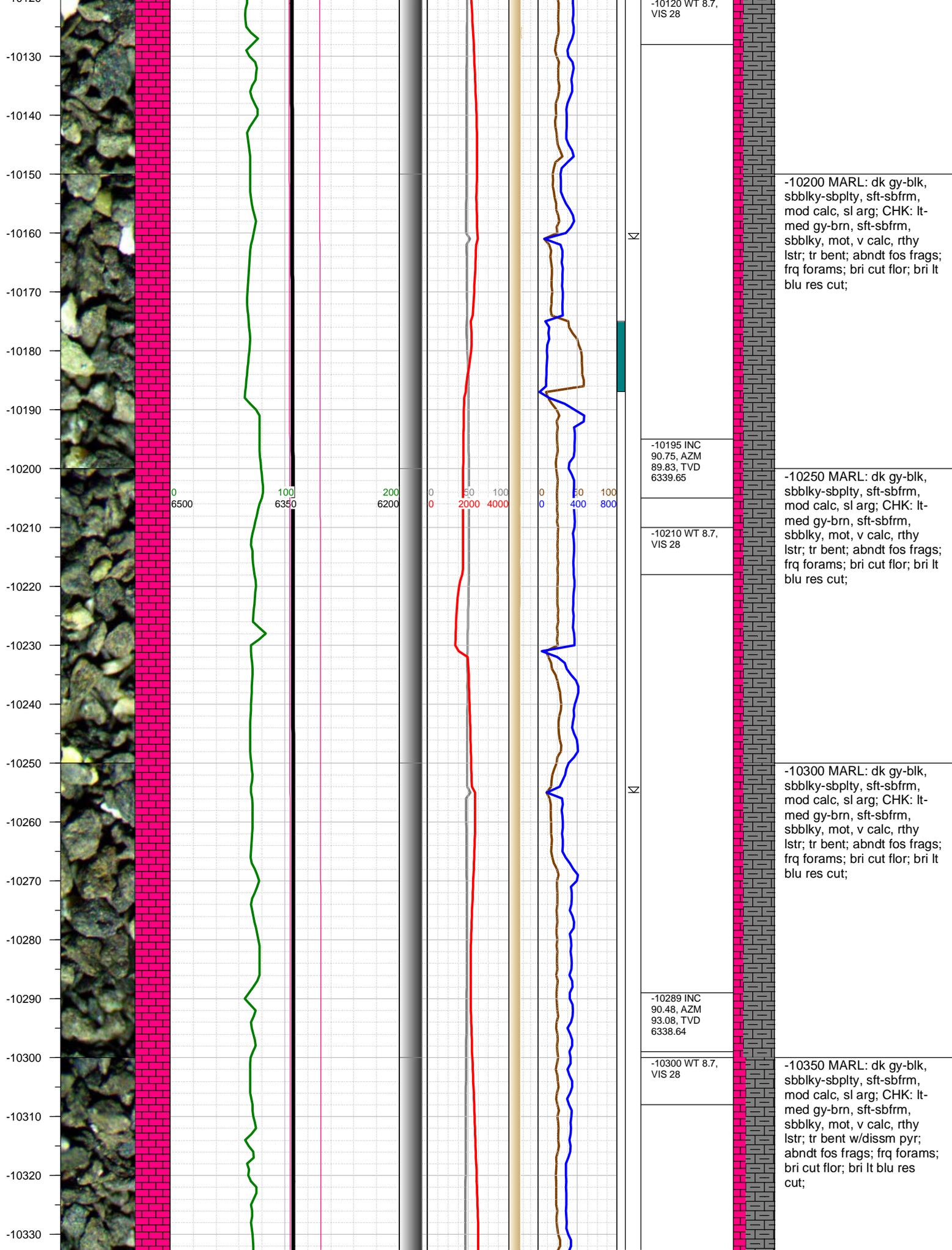
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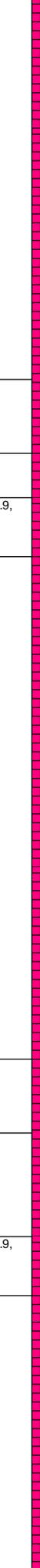
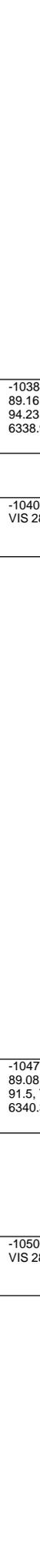
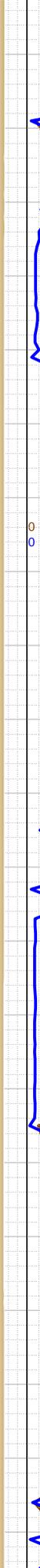
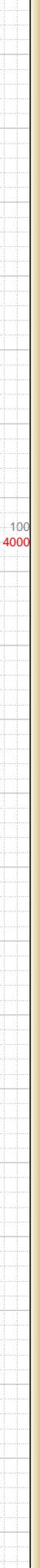
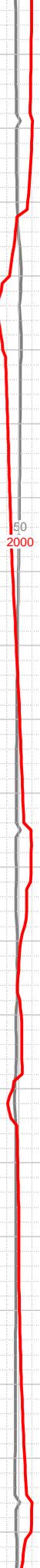
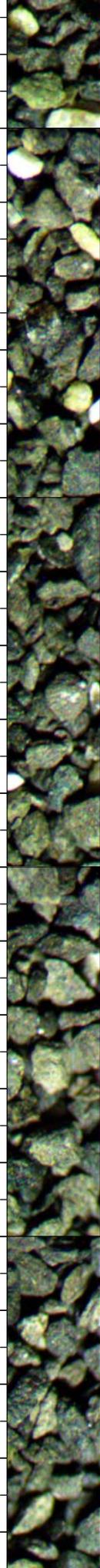
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-10384 INC
89.16, AZM
94.23, TVD
6338.93

-10400 WT 8.9,
VIS 28

-10476 INC
89.08, AZM
91.5, TVD
6340.34

-10500 WT 8.9,
VIS 28

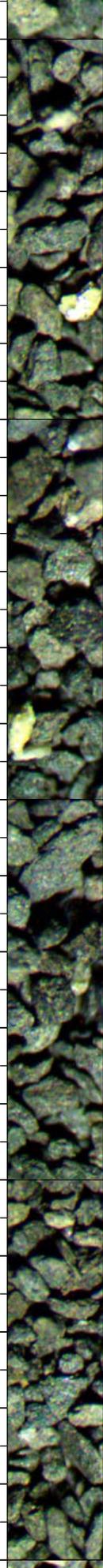
-10400 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr bent w/dissm pyr; abndt fos frags; mod forams; bri cut flor; bri lt blu res cut;

-10450 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 bent w/dissm pyr; mod fos frags; mod forams; bri cut flor w/streaming; bri lt blu res cut;

-10500 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 bent w/dissm pyr; mod fos frags; mod forams; bri cut flor; bri lt blu res cut;

-10550 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 bent w/dissm pyr; mod fos frags; mod forams; bri cut flor; bri lt blu res cut;

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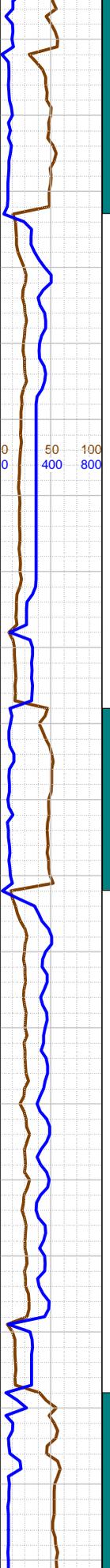
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-10568 INC
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89.74, TVD
6341.89

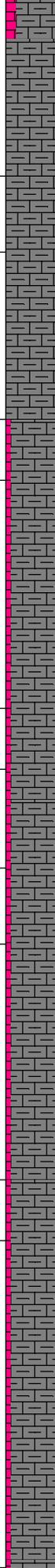
-10600 WT 8.9,
VIS 28

-10638 0000 hrs
on 10/26/2015

-10659 INC
88.9, AZM
87.46, TVD
6343.57

-10700 WT 8.9,
VIS 28

-10751 INC
90.22, AZM
86.14, TVD



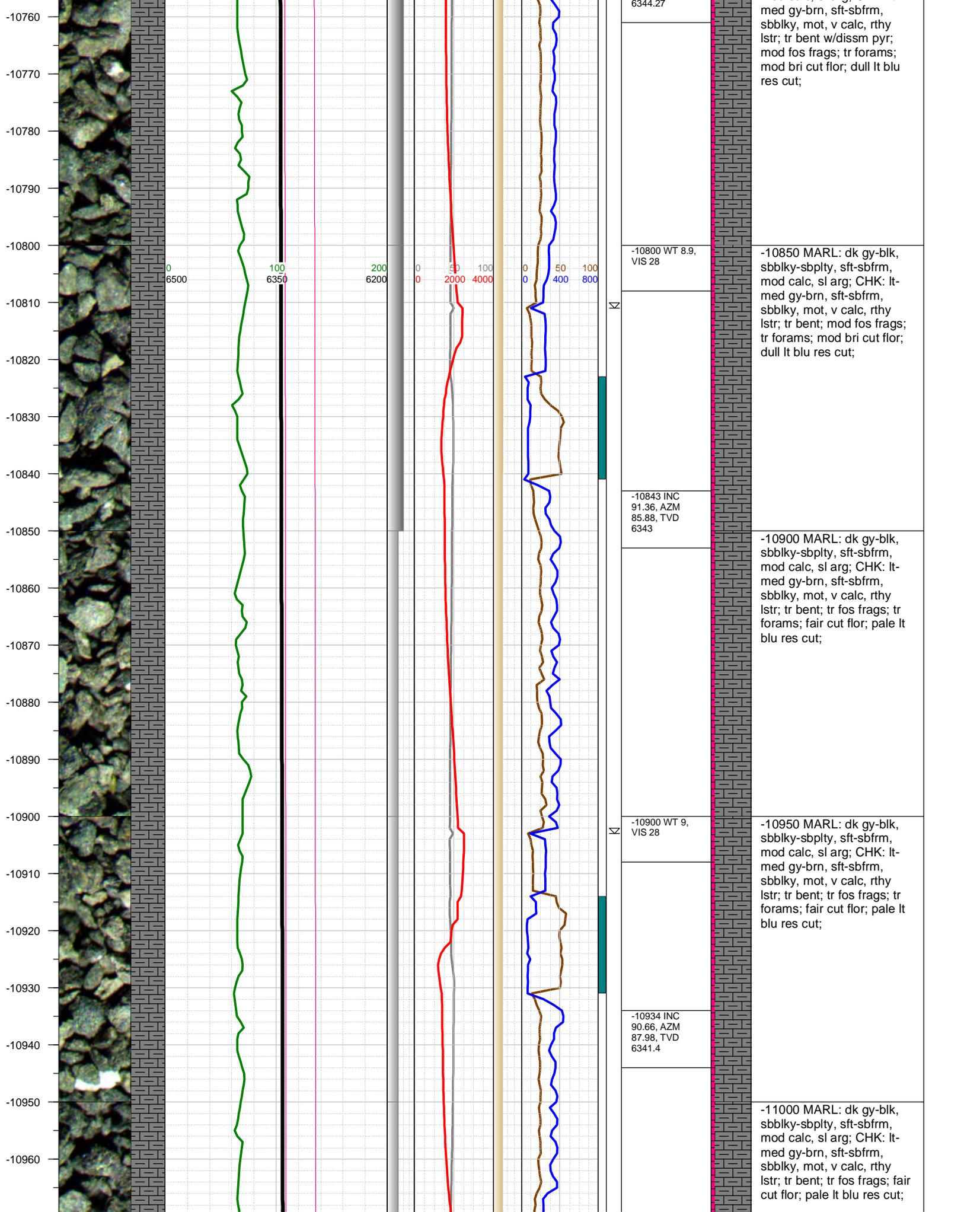
-10600 MARL: dk gy-blk,
sbbiky-sbply, sft-sbfrm,
mod calc, sl arg; tr bent
w/dissm pyr; mod fos frags;
mod forams; bri cut flor; bri
lt blu res cut;

-10650 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 bent w/dissm pyr;
mod fos frags; mod forams;
bri cut flor; dull lt blu res
cut;

-10700 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 bent w/dissm pyr;
mod fos frags; tr forams;
mod bri cut flor; dull lt blu
res cut;

-10750 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 bent w/dissm pyr;
mod fos frags; tr forams;
bri cut flor; dull lt blu res
cut;

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



6344.27

med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr bent w/dissm pyr; mod fos frags; tr forams; mod bri cut flor; dull lt blu res cut;

-10800 WT 8.9, VIS 28

-10850 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr bent; mod fos frags; tr forams; mod bri cut flor; dull lt blu res cut;

-10843 INC 91.36, AZM 85.88, TVD 6343

-10900 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr bent; tr fos frags; tr forams; fair cut flor; pale lt blu res cut;

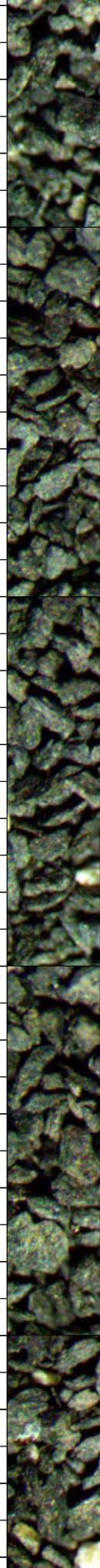
-10900 WT 9, VIS 28

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

-10934 INC 90.66, AZM 87.98, TVD 6341.4

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

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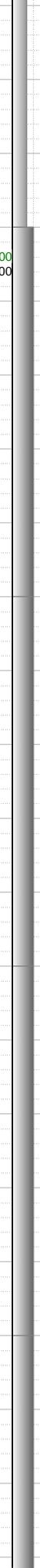
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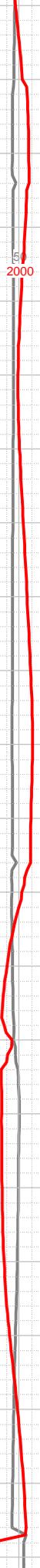
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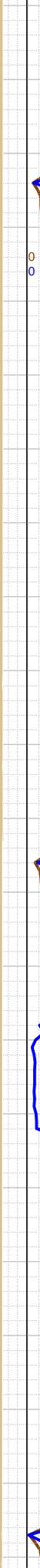
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-11000 WT 9,
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-11026 INC
90.22, AZM
87.9, TVD
6340.69

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-11100 WT 9,
VIS 28

-11117 INC
91.28, AZM
87.37, TVD
6339.5

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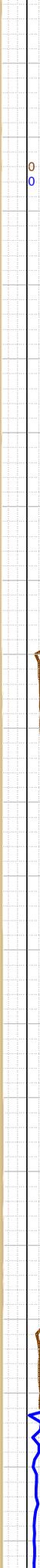
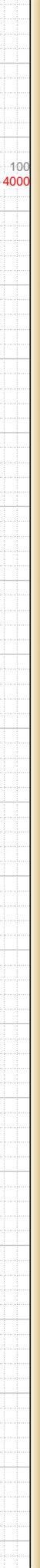
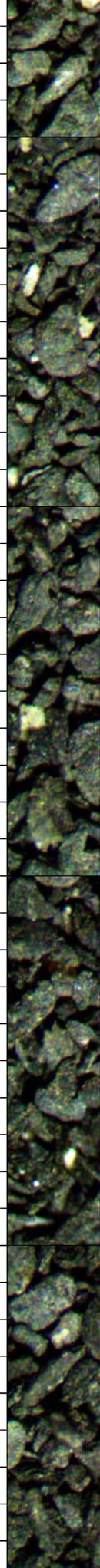
-11050 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr fos frags; tr forams; mod bri cut flor; dull lt blu res cut;

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

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-11200 WT 9,
VIS 28

-11209 INC
91.19, AZM
87.28, TVD
6337.53

-11301 INC
90.57, AZM 85,
TVD 6336.12

-11320 WT 9,
VIS 28

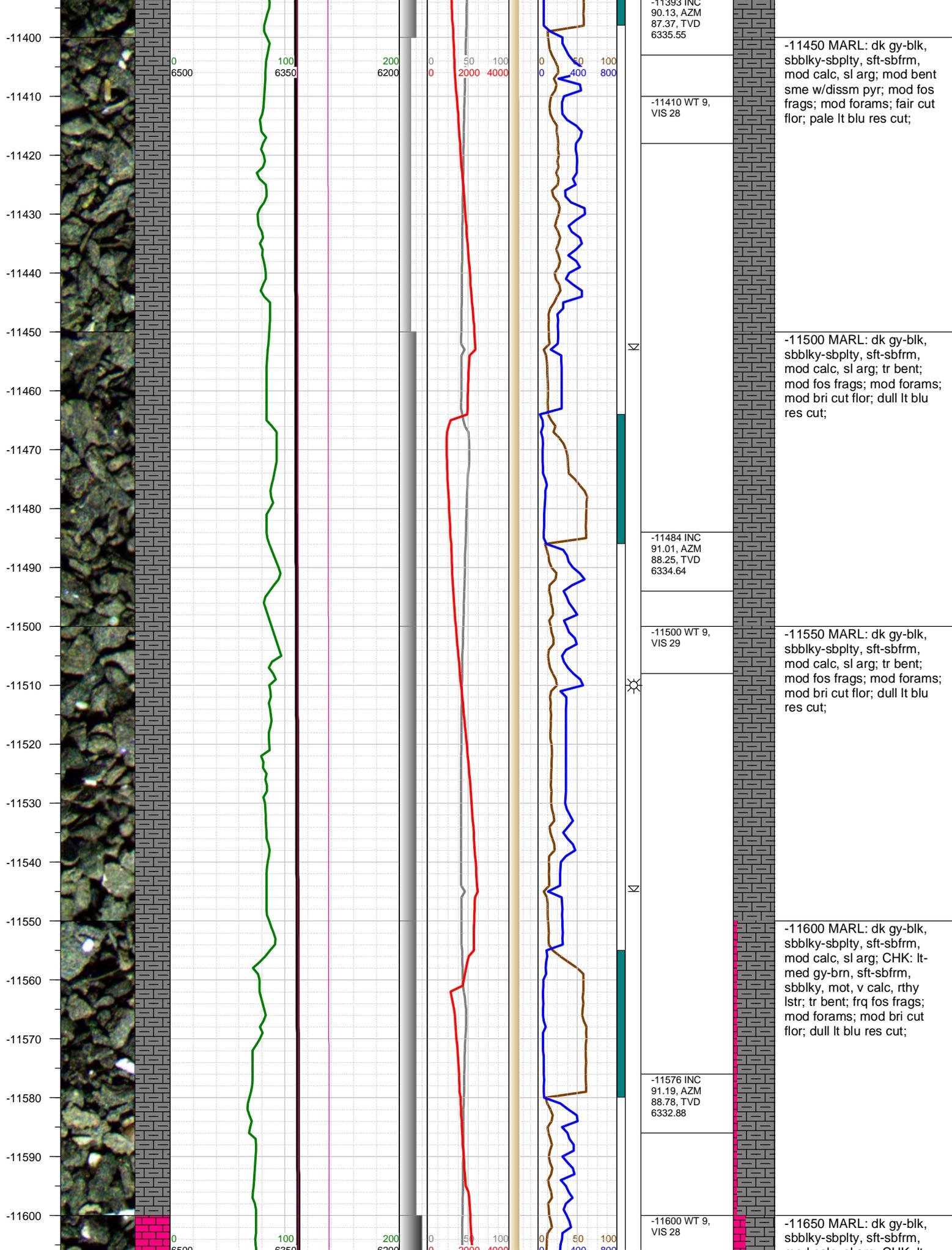
-11390 INC

-11250 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; tr bent;
mod fos frags; mod forams;
mod bri cut flor; dull lt blu
res cut;

-11250 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; tr bent;
mod fos frags; mod forams;
fair cut flor; dull lt blu res
cut;

-11350 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; mod bent;
frq fos frags; mod forams;
fair cut flor; dull lt blu res
cut;

-11400 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; mod bent;
frq fos frags; mod forams;
mod bri cut flor; dull lt blu
res cut;



-11393 INC
90.13, AZM
87.37, TVD
6335.55

-11410 WT 9,
VIS 28

-11484 INC
91.01, AZM
88.25, TVD
6334.64

-11500 WT 9,
VIS 29

-11576 INC
91.19, AZM
88.78, TVD
6332.88

-11600 WT 9,
VIS 28

-11450 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod bent sme w/dissm pyr; mod fos frags; mod forams; fair cut flor; pale lt blu res cut;

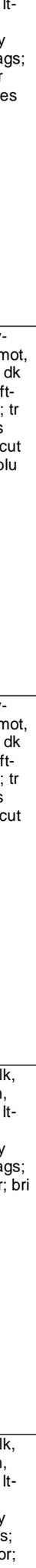
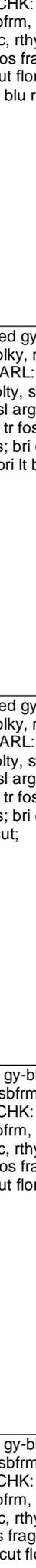
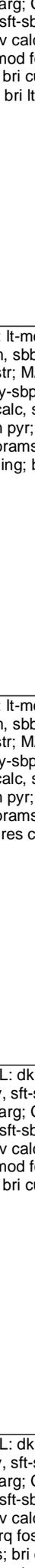
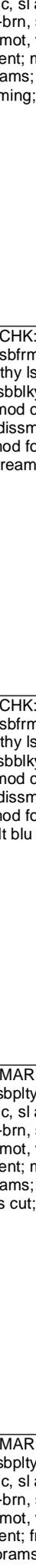
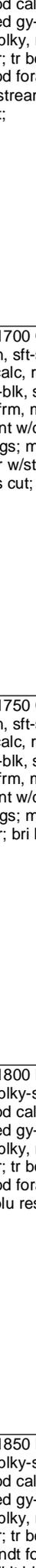
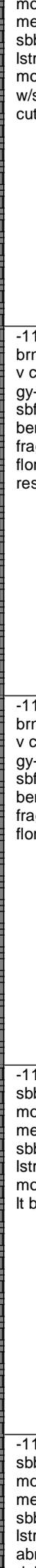
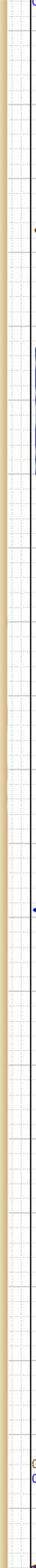
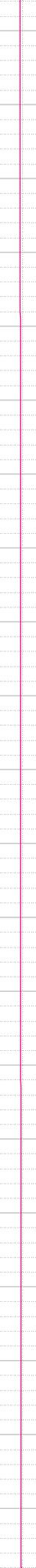
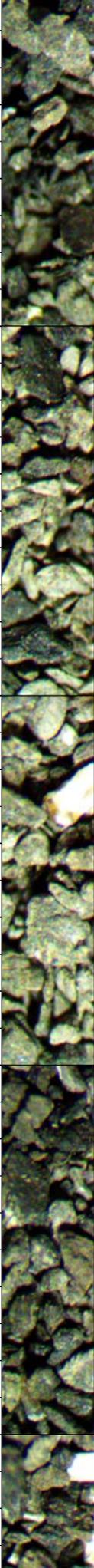
-11500 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; tr bent; mod fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-11550 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; tr bent; mod fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-11600 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 bent; frq fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-11650 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 bent; frq fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

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-11668 INC
91.36, AZM
90.8, TVD
6330.83

-11700 WT 9,
VIS 28

-11759 INC
90.84, AZM
90.27, TVD
6329.09

-11800 WT 9,
VIS 28

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

-11700 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 bent w/dissm pyr; tr fos frags; mod forams; bri cut flor w/streaming; bri lt blu res cut;

-11750 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 bent w/dissm pyr; tr fos frags; mod forams; bri cut flor; bri lt blu res cut;

-11800 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 bent; mod fos frags; mod forams; bri cut flor; bri lt blu res cut;

-11850 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 bent; frq fos frags; abndt forams; bri cut flor;

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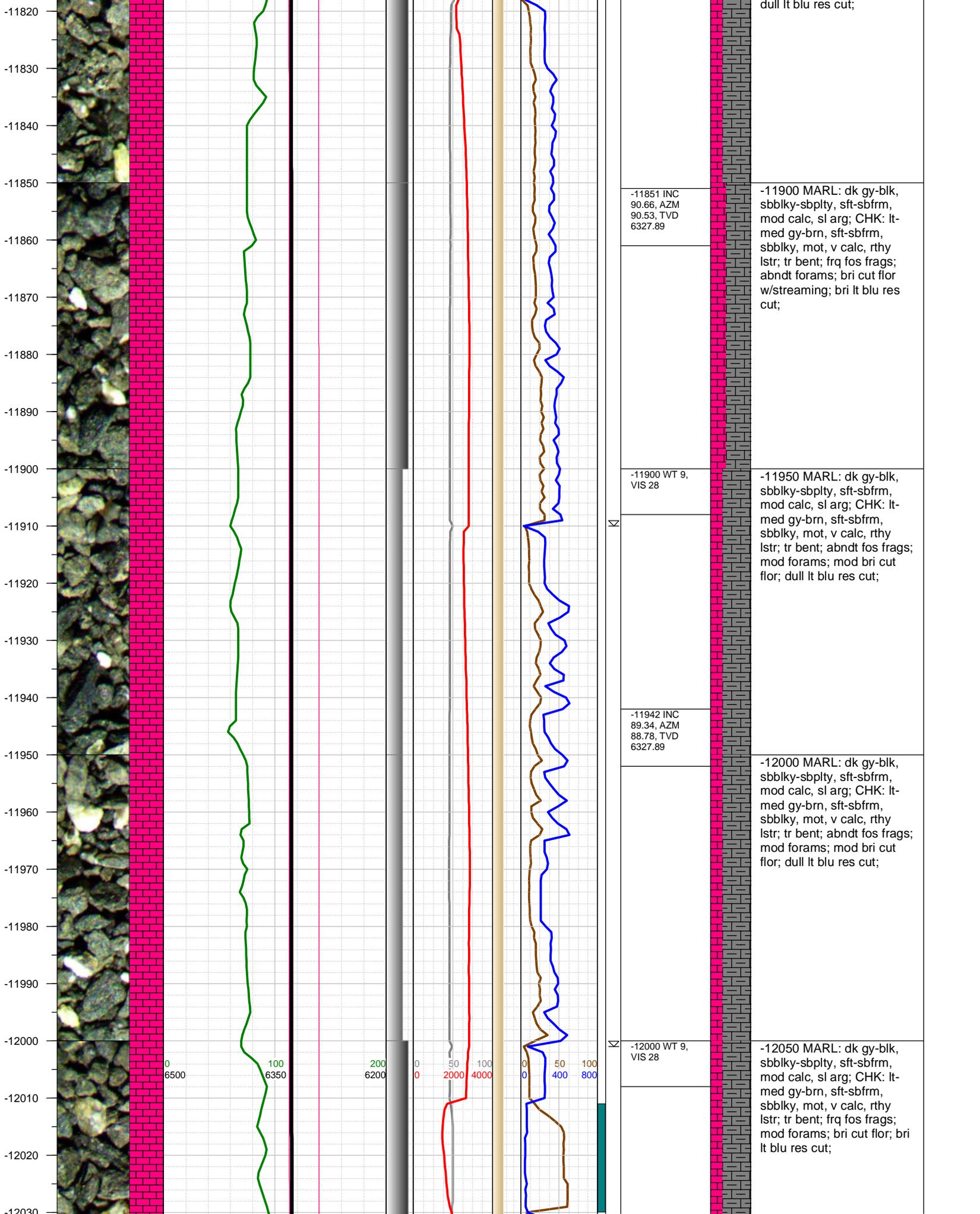
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-11851 INC
90.66, AZM
90.53, TVD
6327.89

-11900 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 bent; frq fos frags; abndt forams; bri cut flor w/streaming; bri lt blu res cut;

-11900 WT 9,
VIS 28

-11950 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 bent; abndt fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

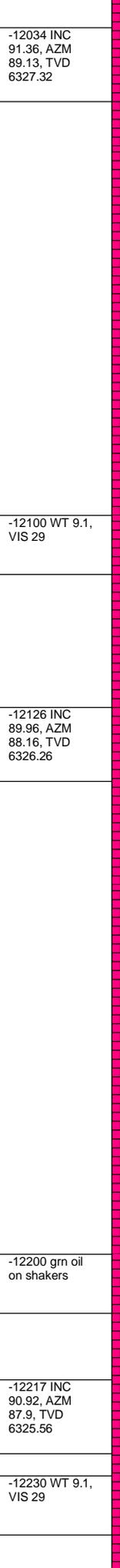
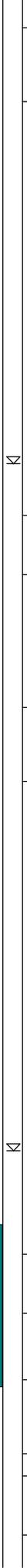
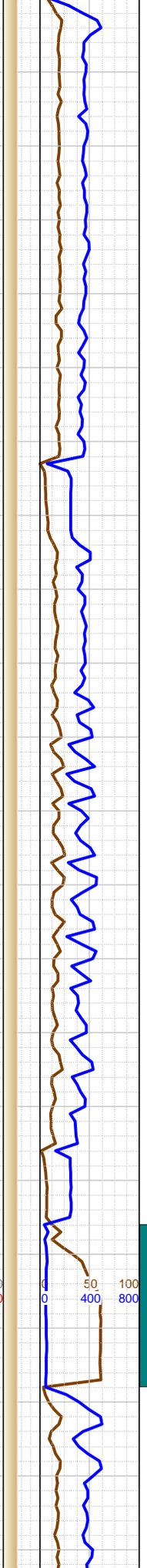
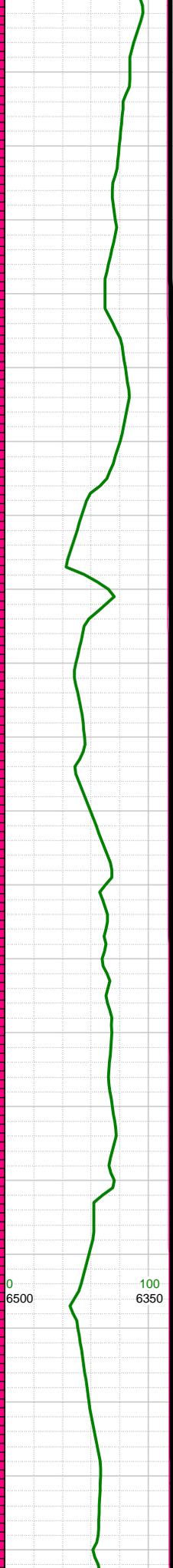
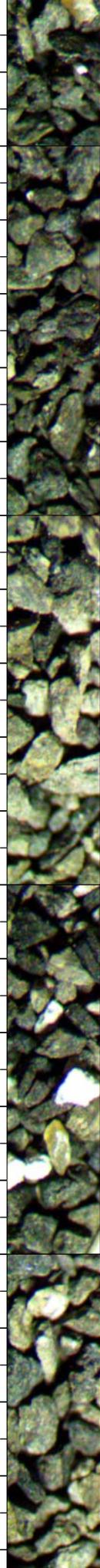
-11942 INC
89.34, AZM
88.78, TVD
6327.89

-12000 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 bent; abndt fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-12000 WT 9,
VIS 28

-12050 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 bent; frq fos frags; mod forams; bri cut flor; bri lt blu res cut;

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-12034 INC
91.36, AZM
89.13, TVD
6327.32

-12100 MRL: 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 bent; mod fos frags; mod forams; bri cut flor w/streaming; bri lt blu res cut;

-12100 WT 9.1, VIS 29

-12150 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MRL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod fos frags; tr forams; bri cut flor w/streaming; bri lt blu res cut;

-12126 INC
89.96, AZM
88.16, TVD
6326.26

-12200 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MRL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; tr fos frags; tr forams; bri cut flor; bri lt blu res cut;

-12200 gm oil on shakers

-12250 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MRL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; tr fos frags; tr forams; bri cut flor w/streaming; bri lt blu res cut;

-12217 INC
90.92, AZM
87.9, TVD
6325.56

-12230 WT 9.1, VIS 29

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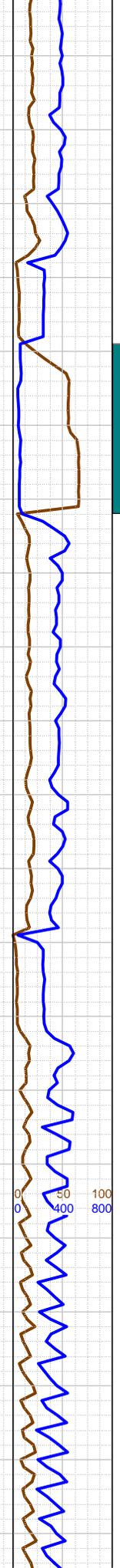
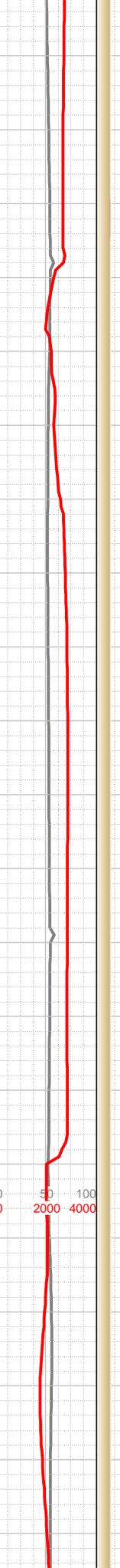
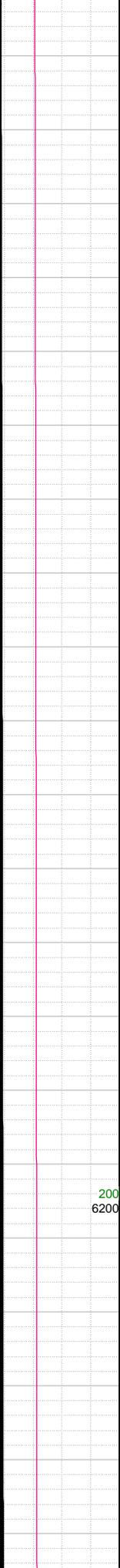
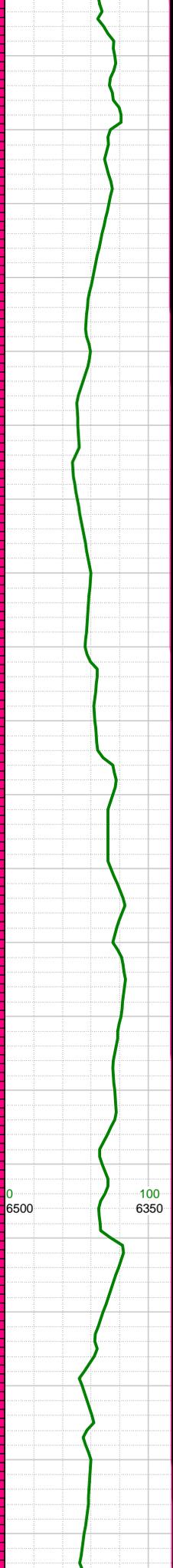
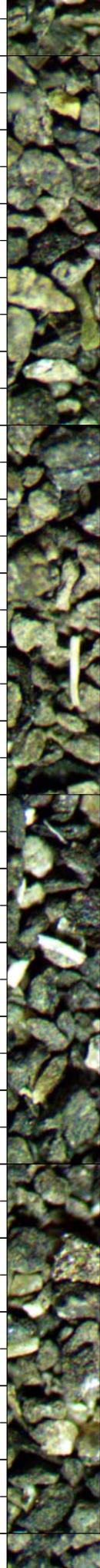
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-12300 WT 9.1,
VIS 29

-12309 INC
90.84, AZM
88.95, TVD
6324.15

-12300 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg; tr
fos frags; mod forams; bri
cut flor; bri lt blu res cut;

-12350 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg; tr
fos frags; tr forams; mod
bri cut flor; bri lt blu res cut;

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

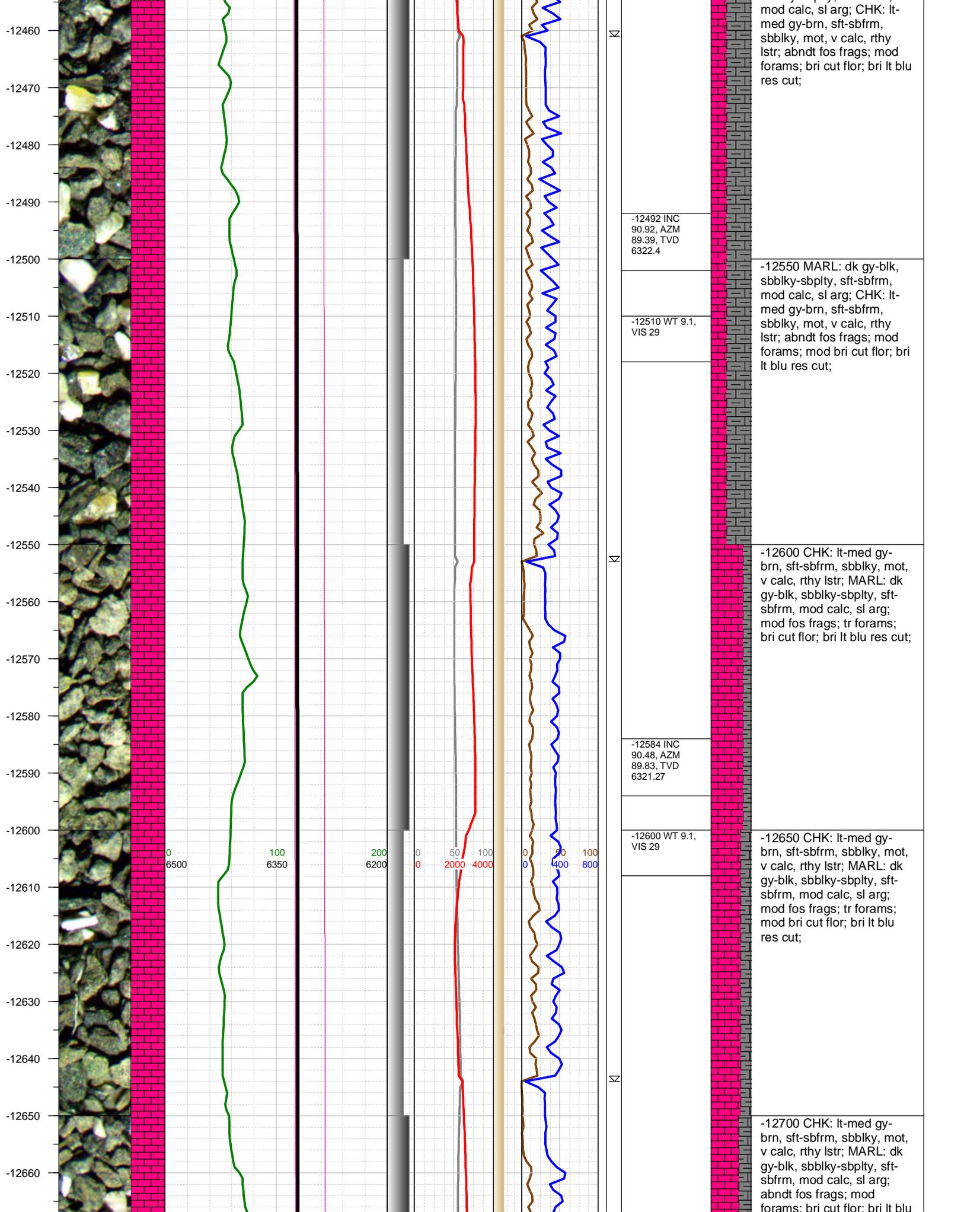
-12401 INC
90.22, AZM
89.22, TVD
6323.3

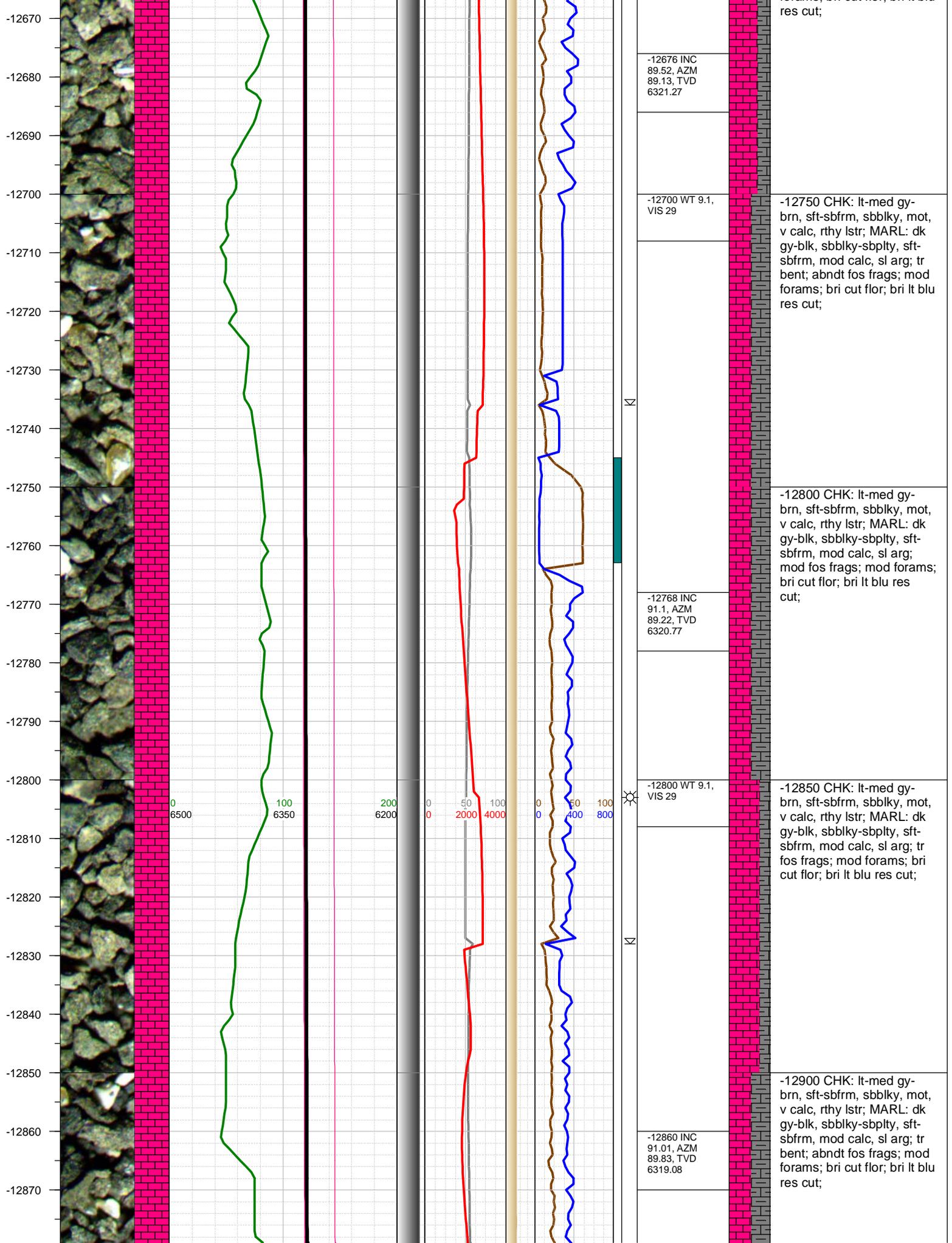
-12450 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg; tr
bent; frq fos frags; mod
forams; bri cut flor; bri lt blu
res cut;

-12420 WT 9.1,
VIS 29

-12500 MARL: dk gy-blk,
sbblky-sbplty, sft-sbfrm.

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-12676 INC
89.52, AZM
89.13, TVD
6321.27

-12700 WT 9.1,
VIS 29

-12768 INC
91.1, AZM
89.22, TVD
6320.77

-12800 WT 9.1,
VIS 29

-12860 INC
91.01, AZM
89.83, TVD
6319.08

res cut;

-12750 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbply, sft-sbfrm, mod calc, sl arg; tr bent; abndt fos frags; mod forams; bri cut flr; bri lt blu res cut;

-12800 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbply, sft-sbfrm, mod calc, sl arg; mod fos frags; mod forams; bri cut flr; bri lt blu res cut;

-12850 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbply, sft-sbfrm, mod calc, sl arg; tr fos frags; mod forams; bri cut flr; bri lt blu res cut;

-12900 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbply, sft-sbfrm, mod calc, sl arg; tr bent; abndt fos frags; mod forams; bri cut flr; bri lt blu res cut;

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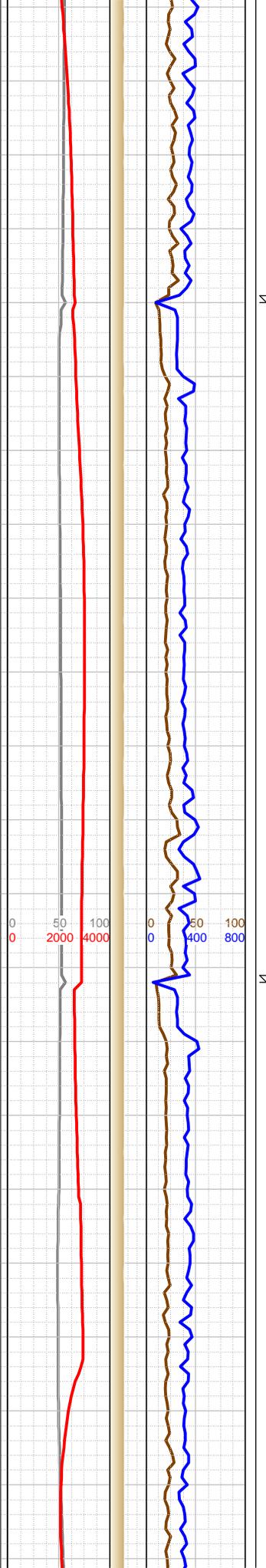
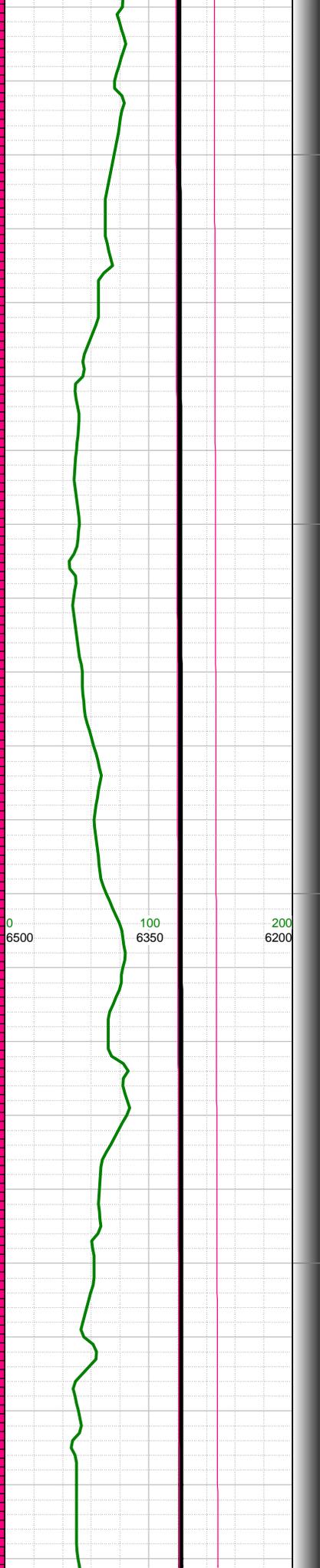
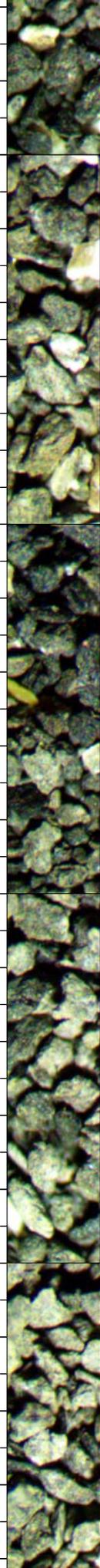
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-12900 WT 9.1,
VIS 29

-12951 INC
91.01, AZM
89.57, TVD
6317.47

-13000 WT 9.1,
VIS 29

-13043 INC
90.31, AZM
88.86, TVD
6316.41

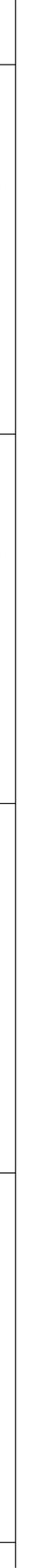
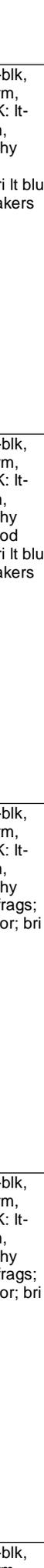
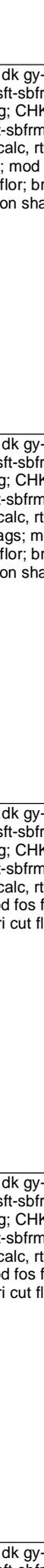
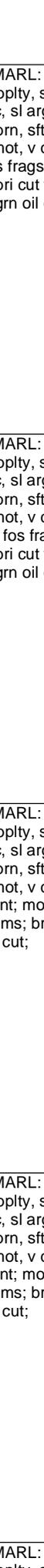
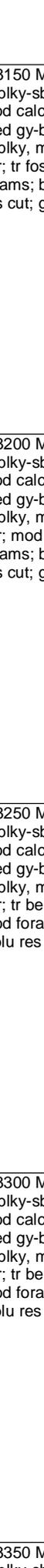
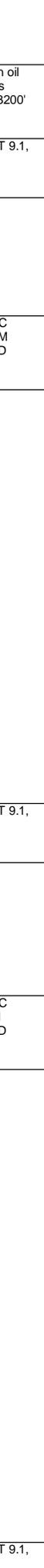
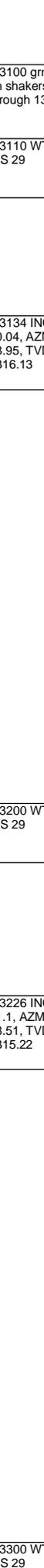
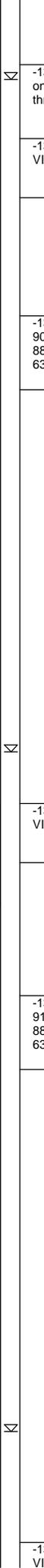
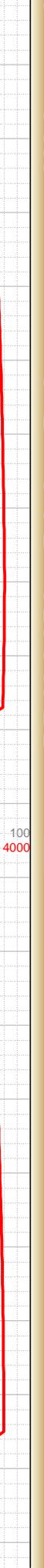
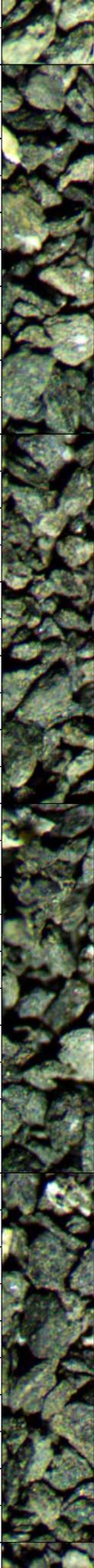
-12950 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; mod fos frags; mod forams; bri cut flor; bri lt blu res cut;

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

-13050 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 forams; bri cut flor; bri lt blu res cut;

-13100 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr bent; tr fos frags; tr forams; bri cut flor; bri lt blu res cut; grn oil on shakers

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-13200
-13210
-13220
-13230
-13240
-13250
-13260
-13270
-13280
-13290
-13300



Σ

-13100 grn oil
on shakers
through 13200'

-13110 WT 9.1,
VIS 29

-13134 INC
90.04, AZM
88.95, TVD
6316.13

Σ

-13200 WT 9.1,
VIS 29

-13226 INC
91.1, AZM
88.51, TVD
6315.22

Σ

-13300 WT 9.1,
VIS 29

-13150 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
forams; bri cut flor; bri lt blu
res cut; grn oil on shakers

-13200 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
forams; bri cut flor; bri lt blu
res cut; grn oil on shakers

-13250 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 bent; mod fos frags;
mod forams; bri cut flor; bri
lt blu res cut;

-13300 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 bent; mod fos frags;
mod forams; bri cut flor; bri
lt blu res cut;

-13350 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 bent; mod fos frags;
mod forams; bri cut flor; bri
lt blu res cut;

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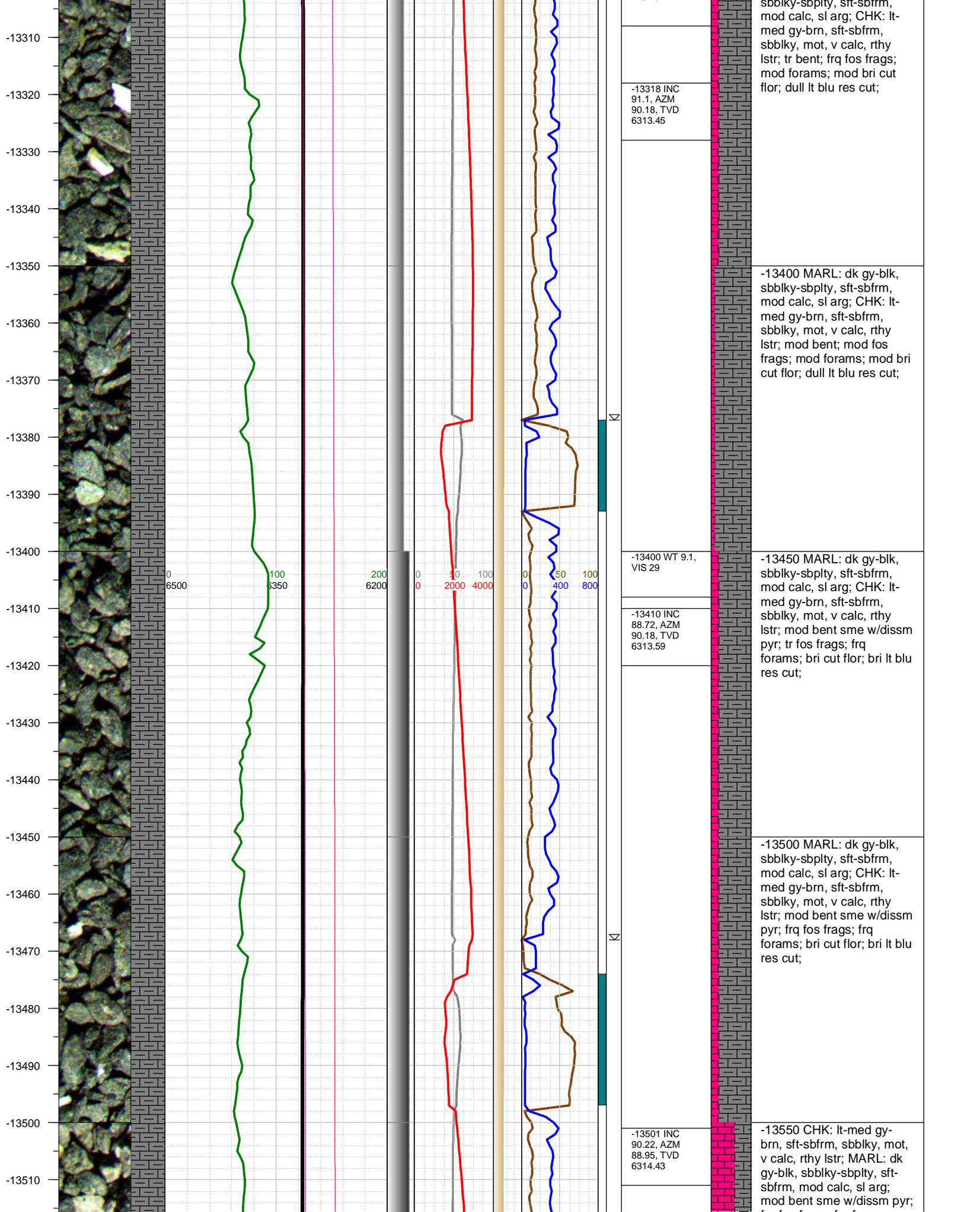
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sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr bent; frq fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-13318 INC
91.1, AZM
90.18, TVD
6313.45

-13400 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 bent; mod fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-13400 WT 9.1,
VIS 29

-13450 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 bent sme w/dissm pyr; tr fos frags; frq forams; bri cut flor; bri lt blu res cut;

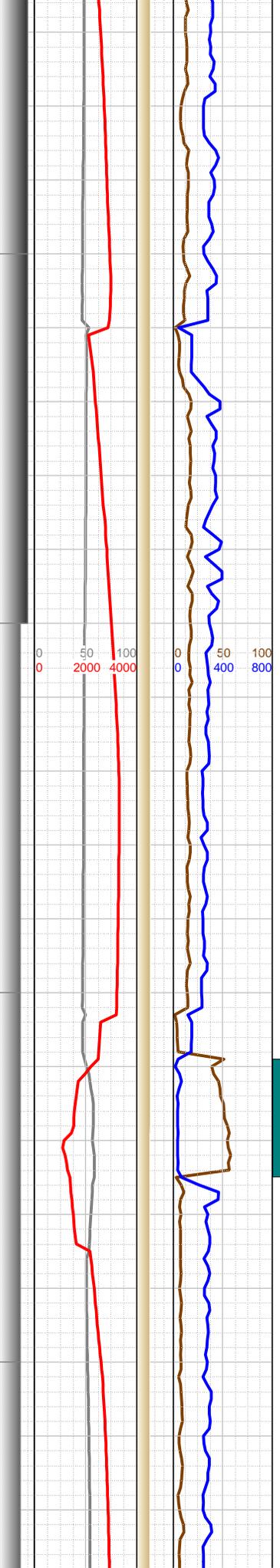
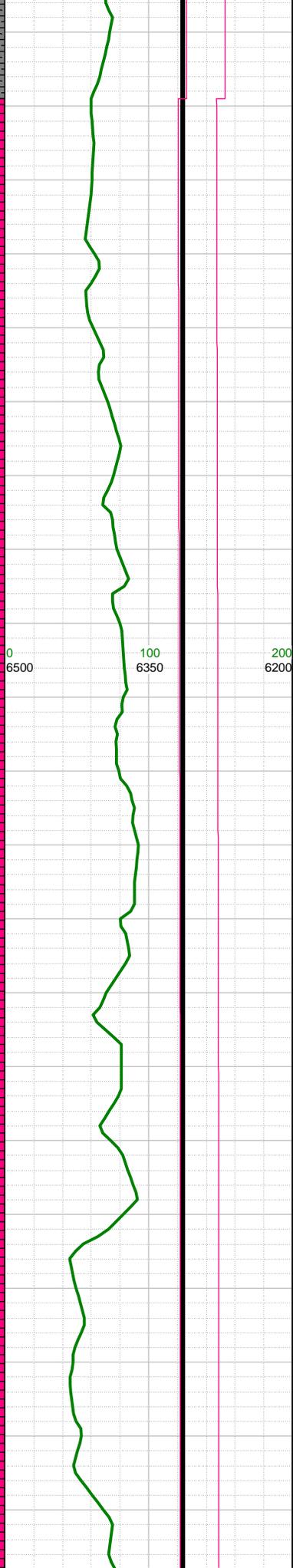
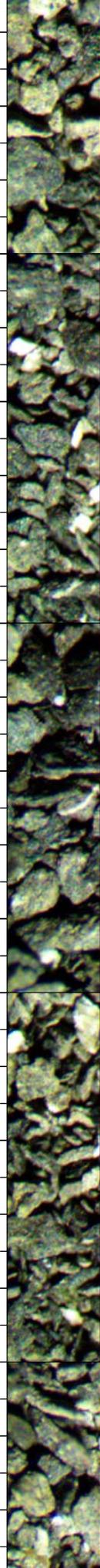
-13410 INC
88.72, AZM
90.18, TVD
6313.59

-13500 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 bent sme w/dissm pyr; frq fos frags; frq forams; bri cut flor; bri lt blu res cut;

-13501 INC
90.22, AZM
88.95, TVD
6314.43

-13550 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; mod bent sme w/dissm pyr;

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-13700
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-13720



-13520 WT 9.1, VIS 29

-13529 Fault: 9' down-throw, B Marl to B Chalk; gas increased and gm oil on shakers

-13550 gm oil on shakers

-13593 INC 89.6, AZM 88.6, TVD 6314.57

-13610 WT 9.1, VIS 29

-13684 INC 90.4, AZM 88.6, TVD 6314.57

-13700 WT 9.1, VIS 29

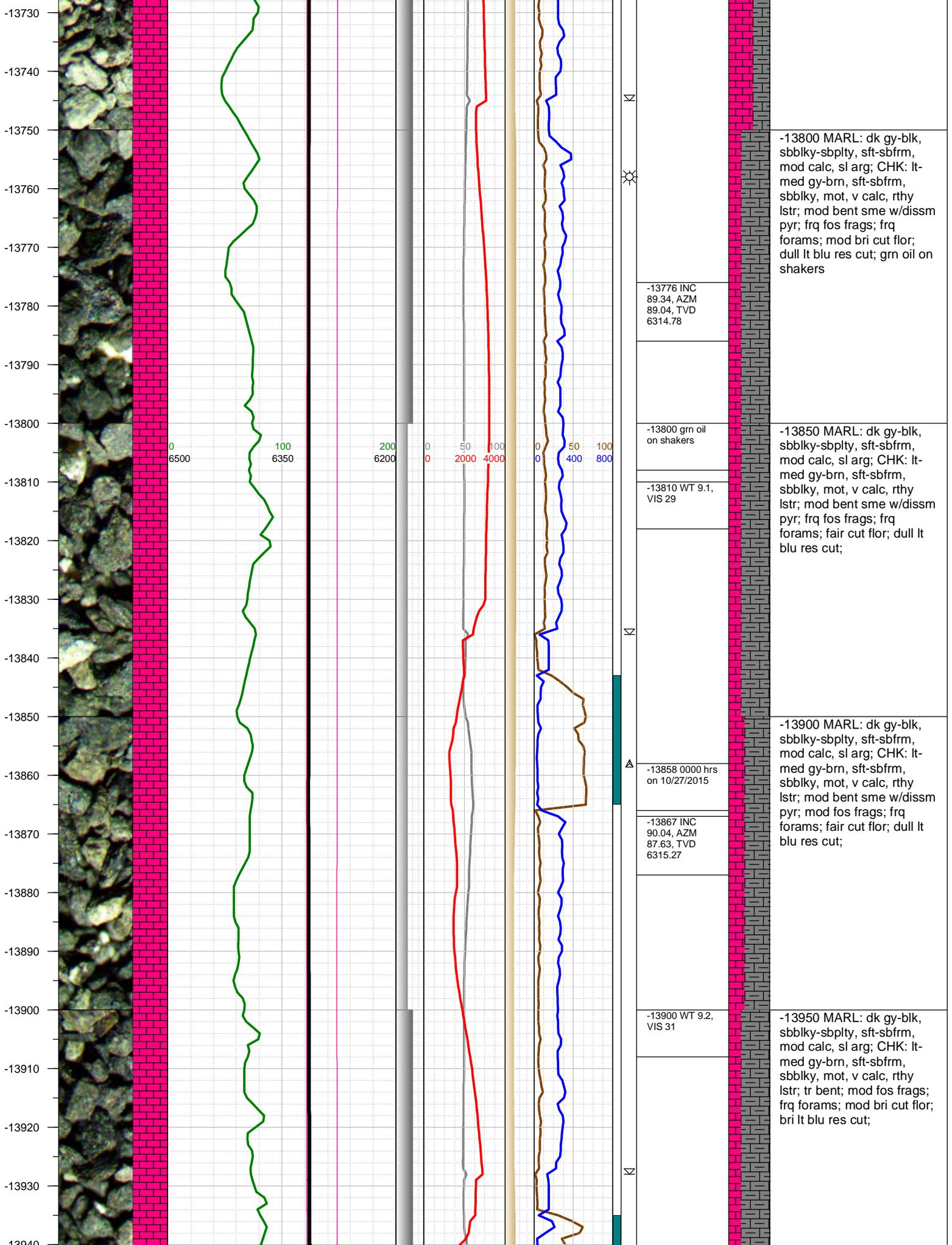
frq fos frags; frq forams; bri cut flor w/streaming; bri lt blu res cut; gm oil on shakers

-13600 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 bent sme w/dissm pyr; frq fos frags; frq forams; bri cut flor w/streaming; bri lt blu res cut; gm oil on shakers

-13650 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 bent sme w/dissm pyr; frq fos frags; mod forams; mod bri cut flor; bri lt blu res cut;

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

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

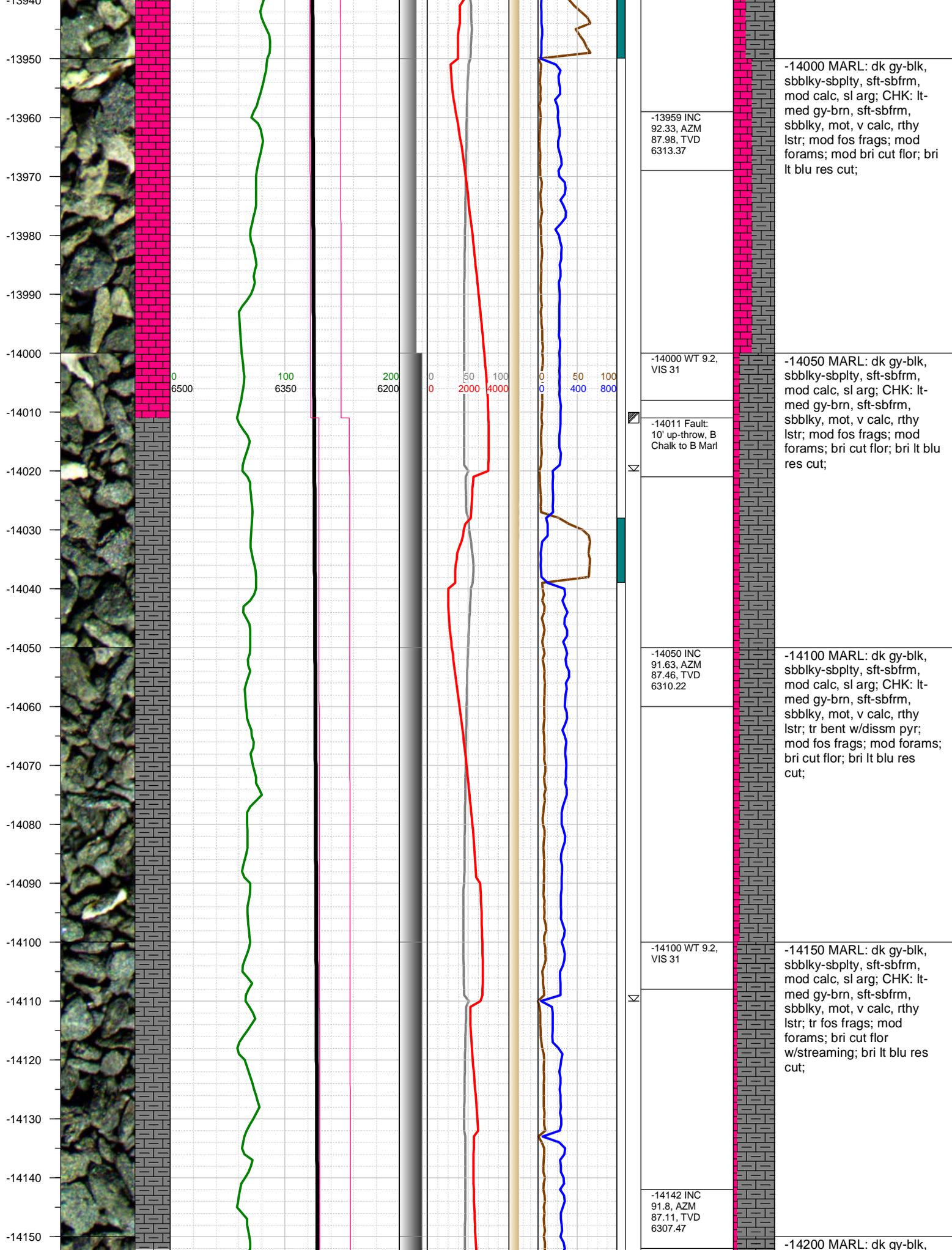


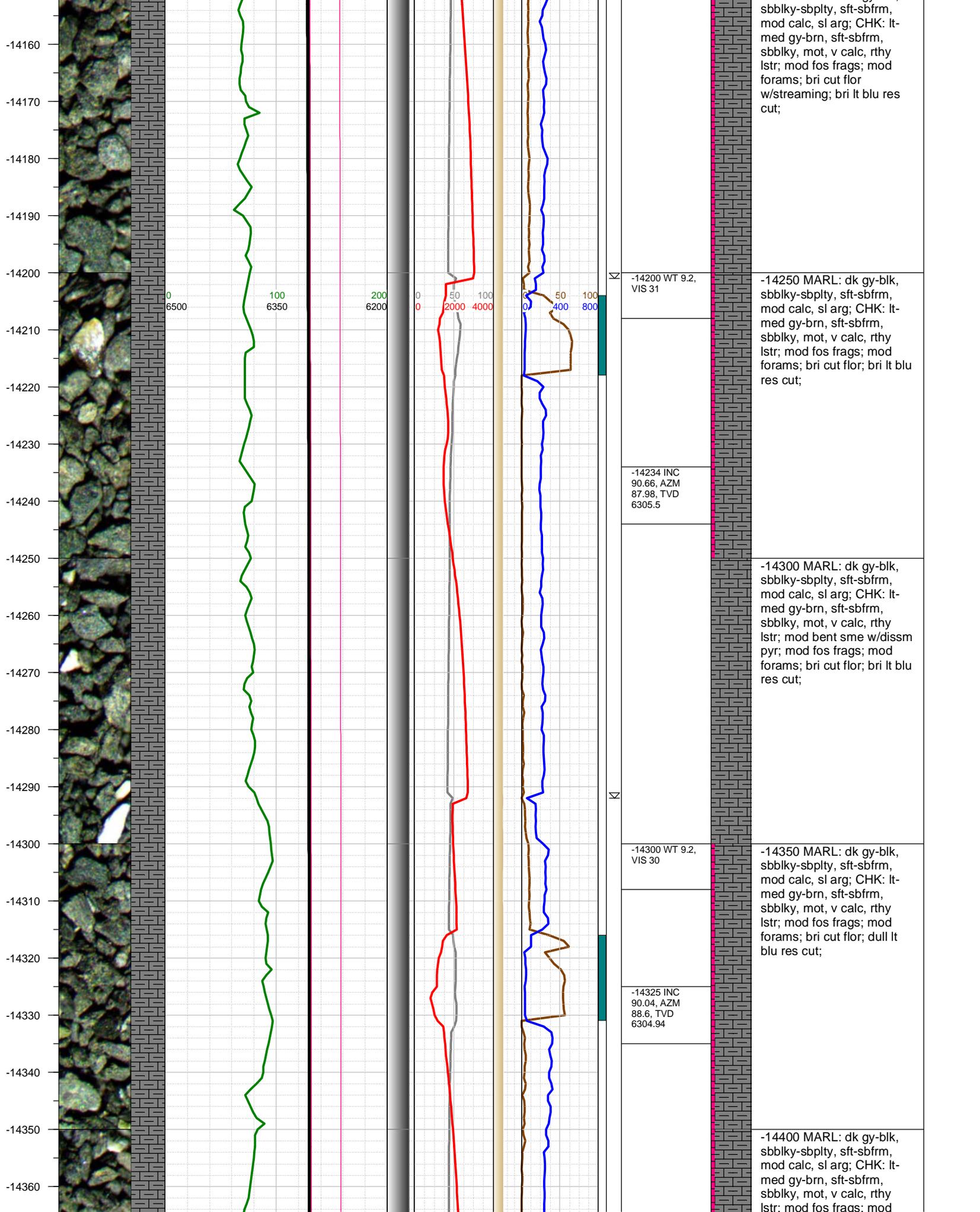
-13800 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; mod bent sme w/dissm pyr; frq fos frags; frq forams; mod bri cut flor; dull lt blu res cut; grn oil on shakers

-13850 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 bent sme w/dissm pyr; frq fos frags; frq forams; fair cut flor; dull lt blu res cut;

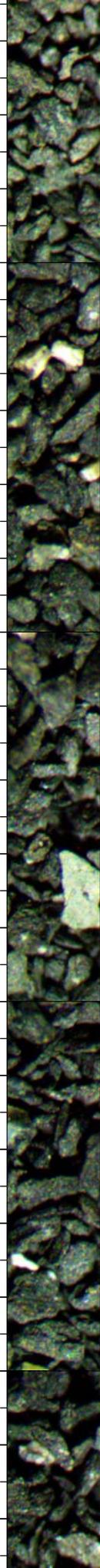
-13900 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; mod bent sme w/dissm pyr; mod fos frags; frq forams; fair cut flor; dull lt blu res cut;

-13950 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 bent; mod fos frags; frq forams; mod bri cut flor; bri lt blu res cut;





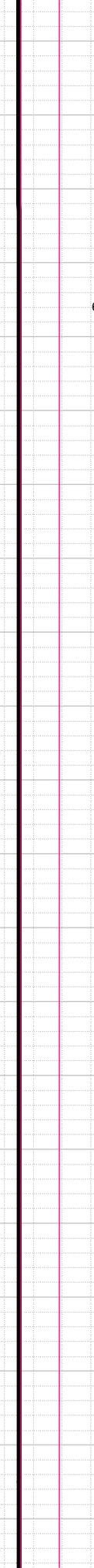
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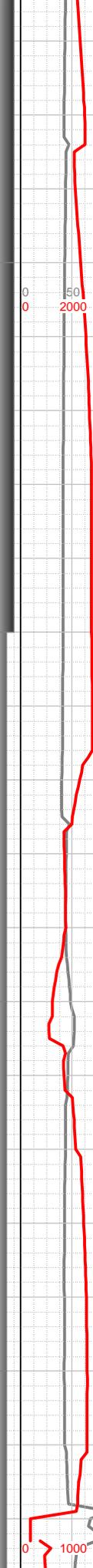
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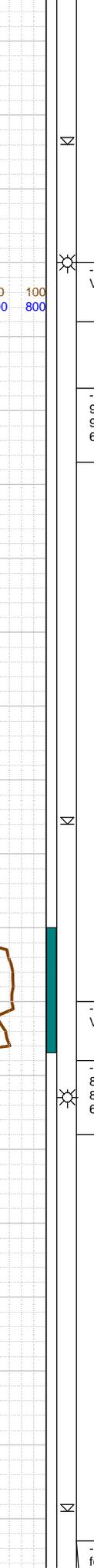
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2000

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forams; bri cut flor; dull lt blu res cut;

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

-14500 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; tr bent; mod fos frags; mod forams; mod bri cut flor; bri lt blu res cut;

-14550 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; tr bent; mod fos frags; mod forams; mod bri cut flor; bri lt blu res cut;

-14600 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, sl arg; tr bent; mod fos frags; mod forams; mod bri cut flor; bri lt blu res cut;



-14400 WT 9.2,
VIS 31



-14417 INC
90.57, AZM
90.01, TVD
6304.44



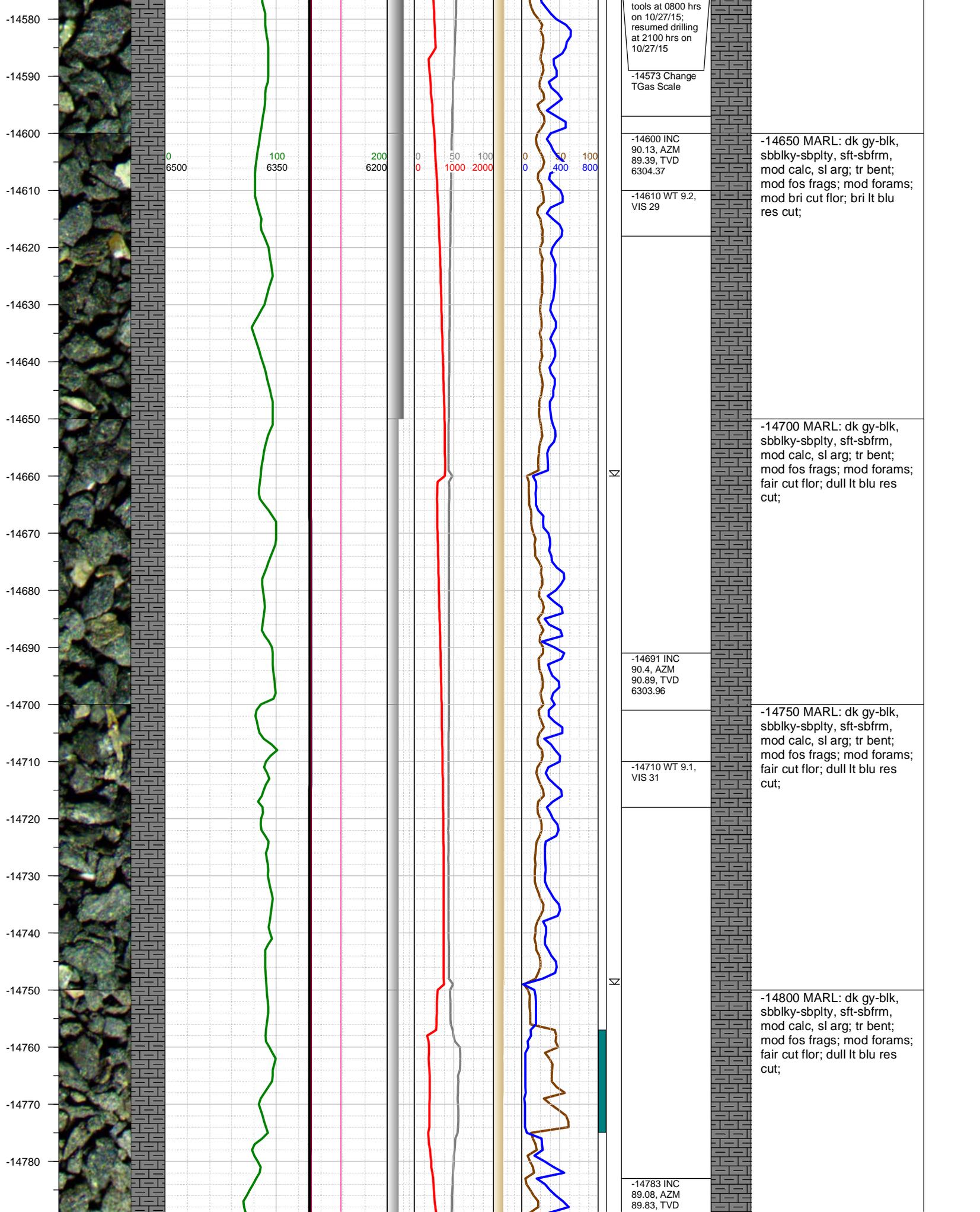
-14500 WT 9.2,
VIS 31



-14508 INC
89.69, AZM
89.22, TVD
6304.23



-14573 TOOH
for new MWD

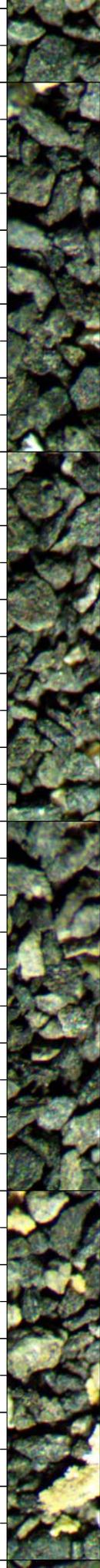


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-15000



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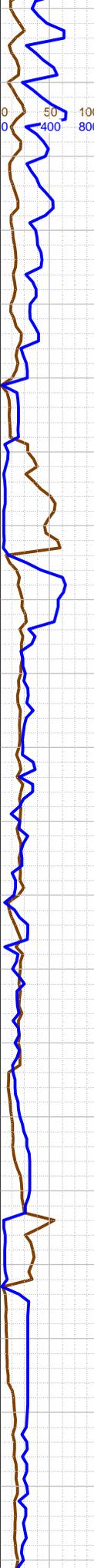
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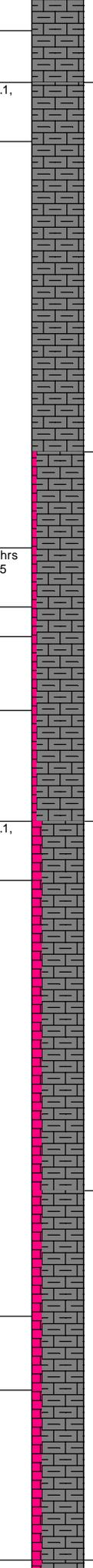
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400

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800



6304.38

-14800 WT 9.1, VIS 31

-14850 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr bent; mod fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-14900 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 bent; mod fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-14863 0000 hrs on 10/28/2015

-14875 INC 89.34, AZM 88.51, TVD 6305.65

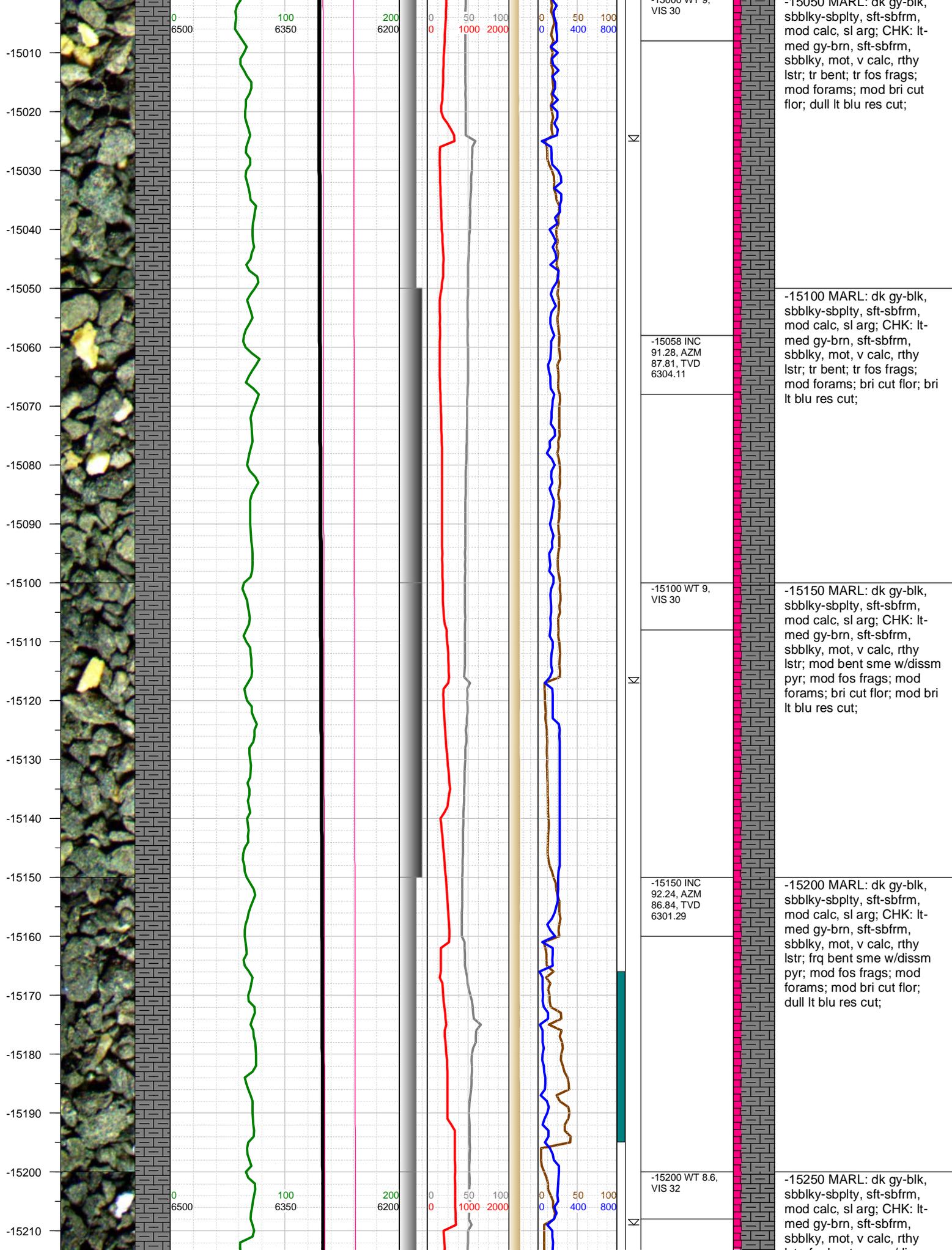
-14900 WT 9.1, VIS 30

-14950 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 bent; tr fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-14967 INC 90.66, AZM 87.72, TVD 6305.65

-15000 WT 9

-15000 MARL: dk gy-blk,



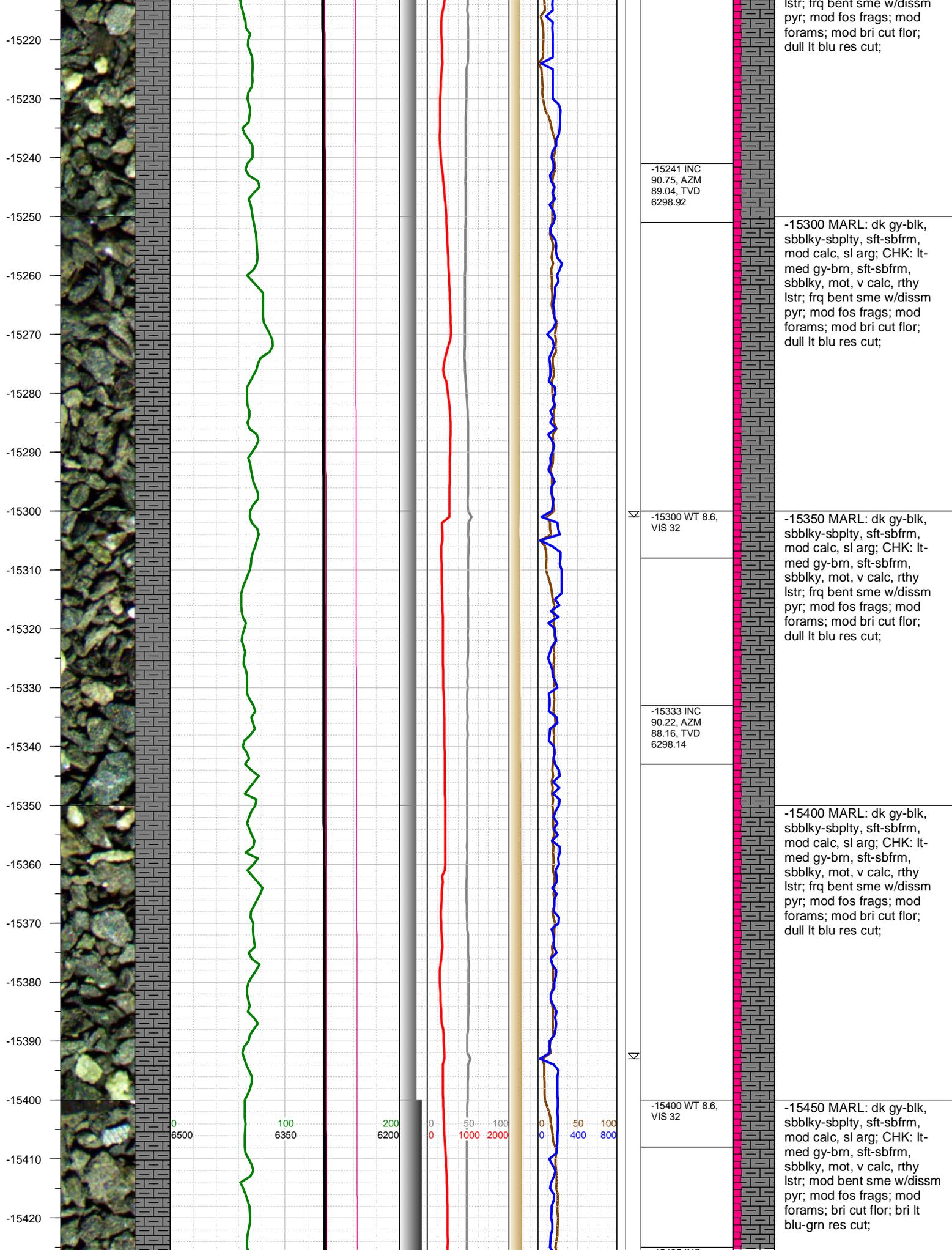
-15050 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr bent; tr fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-15100 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 bent; tr fos frags; mod forams; bri cut flor; bri lt blu res cut;

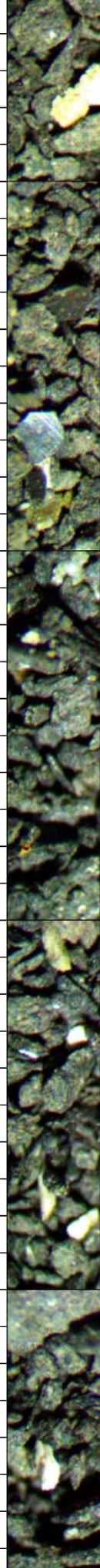
-15150 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; mod bent sme w/dissm pyr; mod fos frags; mod forams; bri cut flor; mod bri lt blu res cut;

-15200 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; frq bent sme w/dissm pyr; mod fos frags; mod forams; mod bri cut flor; dull lt blu res cut;

-15250 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 bent sme w/dissm pyr; mod fos frags; mod forams; mod bri cut flor; dull lt blu res cut;



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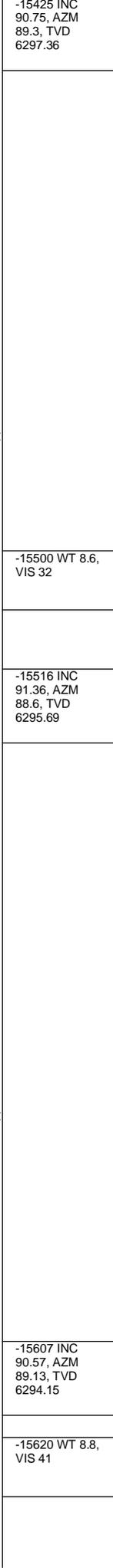
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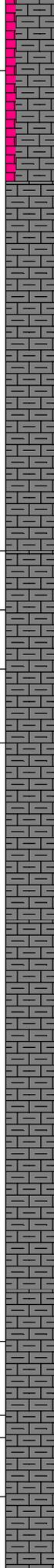


-15500 WT 8.6,
VIS 32

-15516 INC
91.36, AZM
88.6, TVD
6295.69

-15607 INC
90.57, AZM
89.13, TVD
6294.15

-15620 WT 8.8,
VIS 41



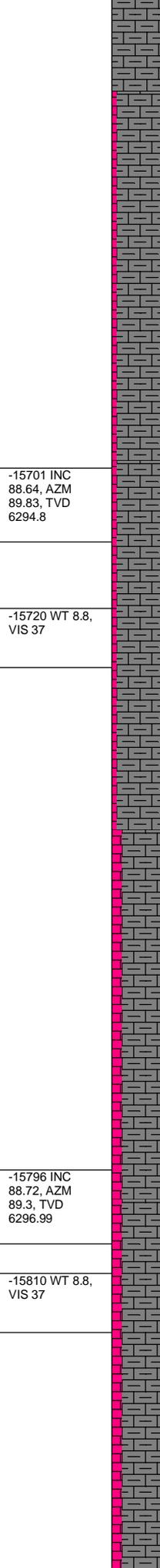
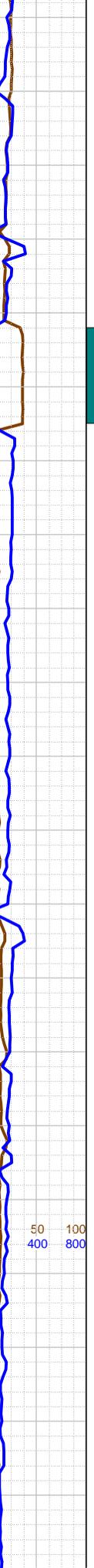
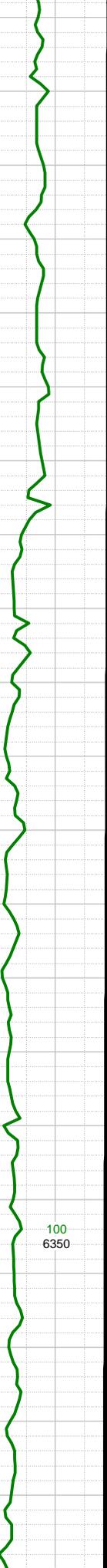
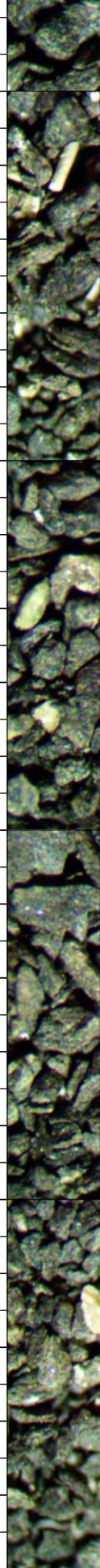
-15500 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg; tr bent sme w/dissm pyr; frq fos frags; mod forams; bri cut flor; dull lt blu res cut;

-15550 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg; tr bent sme w/dissm pyr; frq fos frags; mod forams; fair cut flor; dull lt blu res cut;

-15600 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg; tr bent sme w/dissm pyr; frq fos frags; mod forams; fair cut flor; dull lt blu res cut;

-15650 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, mod calc, sl arg; tr bent; mod fos frags; mod forams; fair cut flor; dull lt blu res cut;

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-15840
-15850



-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; tr bent; abndt fos frags; frq forams; mod bri cut flor; dull lt blu res cut;

-15701 INC
88.64, AZM
89.83, TVD
6294.8

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

-15720 WT 8.8,
VIS 37

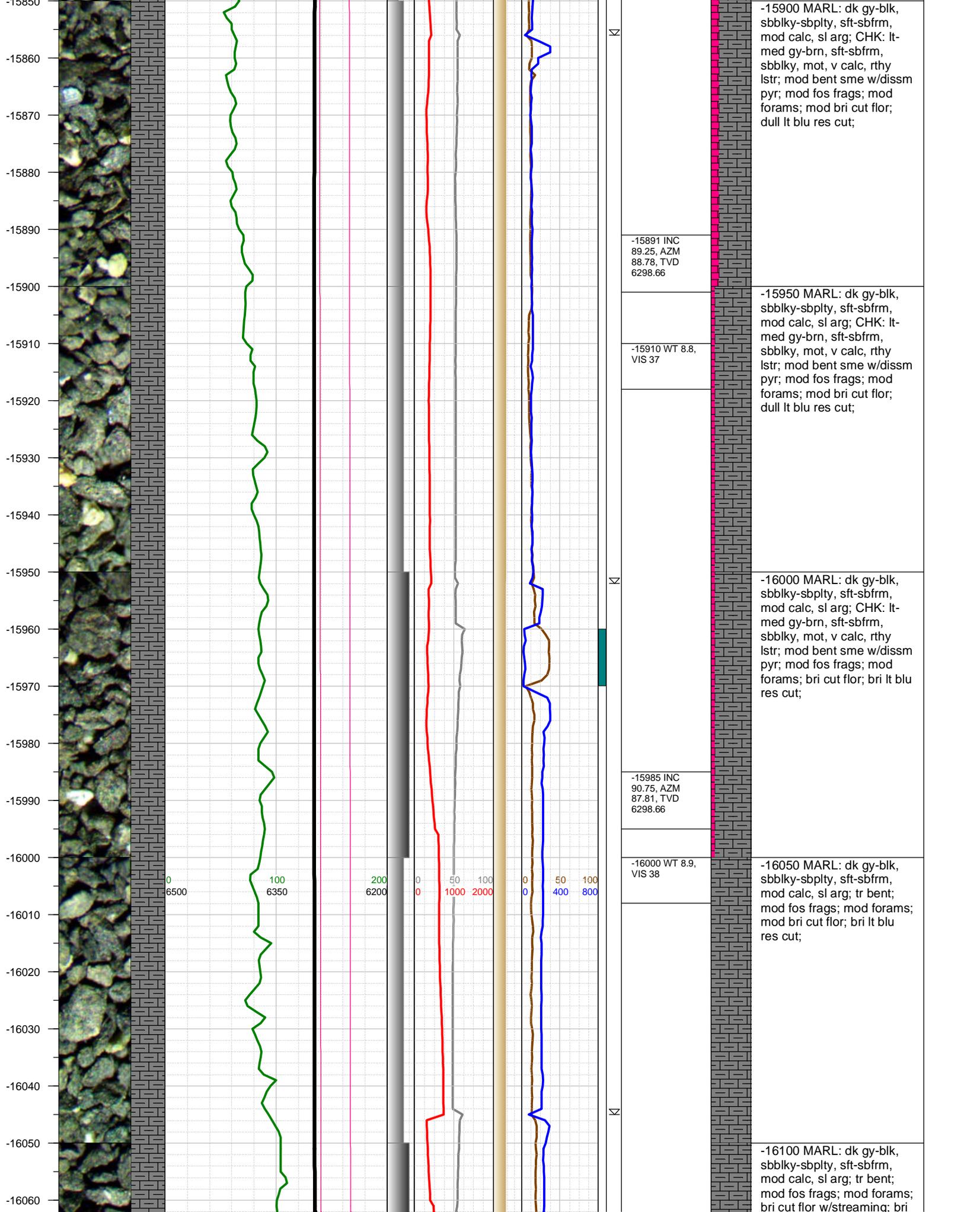
-15800 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; mod bent sme w/dissm pyr; mod fos frags; mod forams; fair cut flor; dull lt blu res cut;

-15796 INC
88.72, AZM
89.3, TVD
6296.99

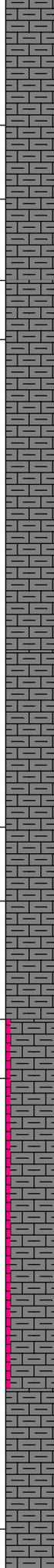
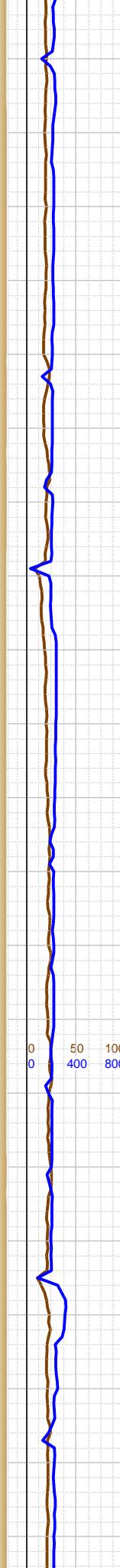
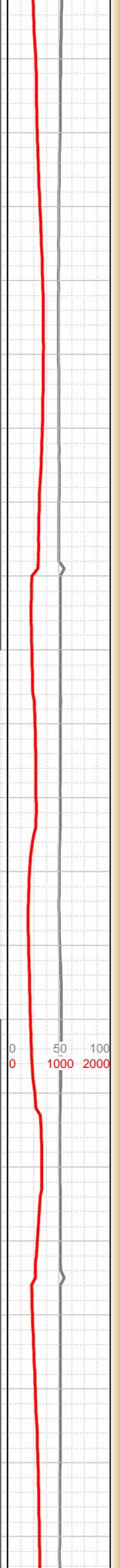
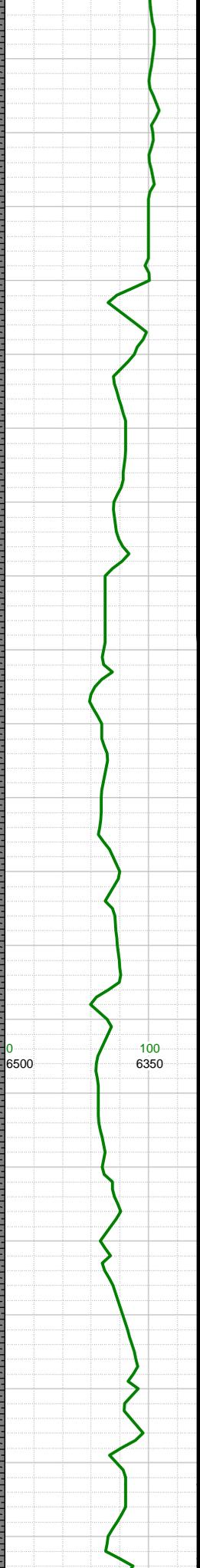
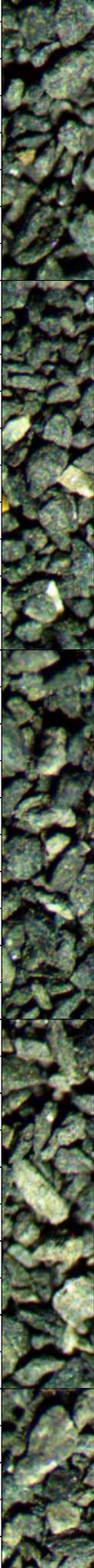
-15850 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; mod bent sme w/dissm pyr; mod fos frags; mod forams; fair cut flor; dull lt blu res cut;

-15810 WT 8.8,
VIS 37

0 100 200 0 50 100 0 50 100
6500 6350 6200 0 1000 2000 0 400 800



-16070
-16080
-16090
-16100
-16110
-16120
-16130
-16140
-16150
-16160
-16170
-16180
-16190
-16200
-16210
-16220
-16230
-16240
-16250
-16260
-16270



It blu res cut;

-16079 INC
90.4, AZM
87.81, TVD
6297.73

-16100 WT 8.9,
VIS 38

-16150 MARL: dk gy-blk,
sbbly-sbplty, sft-sbfrm,
mod calc, sl arg; tr bent;
mod fos frags; mod forams;
bri cut flor; bri lt blu res
cut;

-16200 MARL: dk gy-blk,
sbbly-sbplty, sft-sbfrm,
mod calc, sl arg; tr bent;
mod fos frags; mod forams;
mod bri cut flor; bri lt blu
res cut;

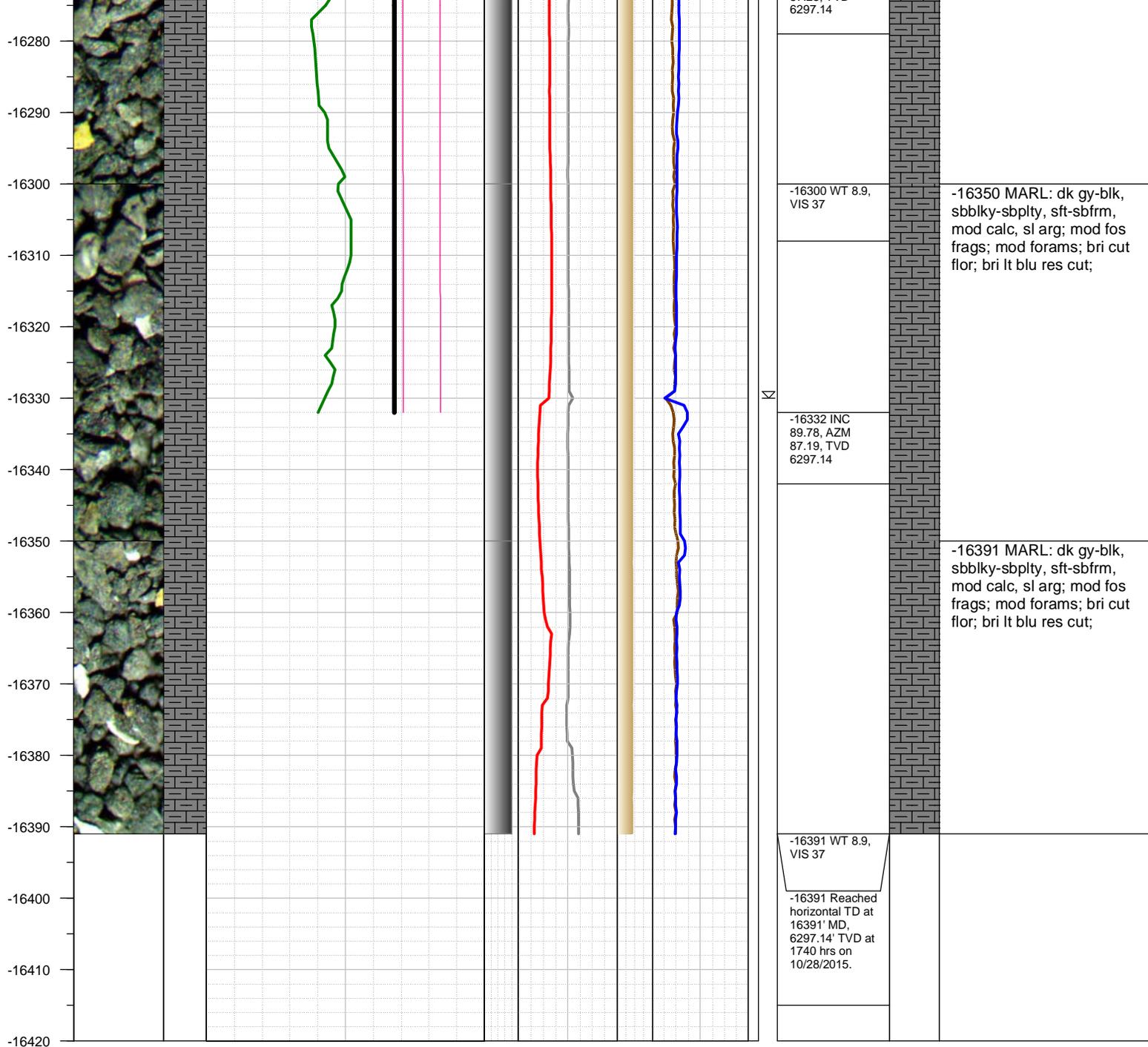
-16174 INC
90.04, AZM
87.72, TVD
6297.36

-16200 WT 8.9,
VIS 37

-16250 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; mod
forams; bri cut flor
w/streaming; bri lt blu res
cut;

-16300 MARL: dk gy-blk,
sbbly-sbplty, sft-sbfrm,
mod calc, sl arg; tr bent;
mod fos frags; mod forams;
bri cut flor; bri lt blu res
cut;

-16269 INC
90.22, AZM
87.28, TVD



TOTAL DEPTH = 16391'

Thank you for using Earth Science Agency