

OPERATOR: **Extraction Oil & Gas**  
 WELL NAME: **Interchange B S22-30-15N**  
 FIELD NAME: DJ Basin - Wattenberg  
 DRILLING RIG: Patterson 901  
 API #: 05-014-20780

LAT/LONG: 39.978163, -104.991157  
 SURFACE HOLE: NESW S10-T1S-R68W, 2200' FSL, 1689' FWL  
 BOTTOM HOLE: S22-T1S-R68W, 460' FSL, 1232' FEL



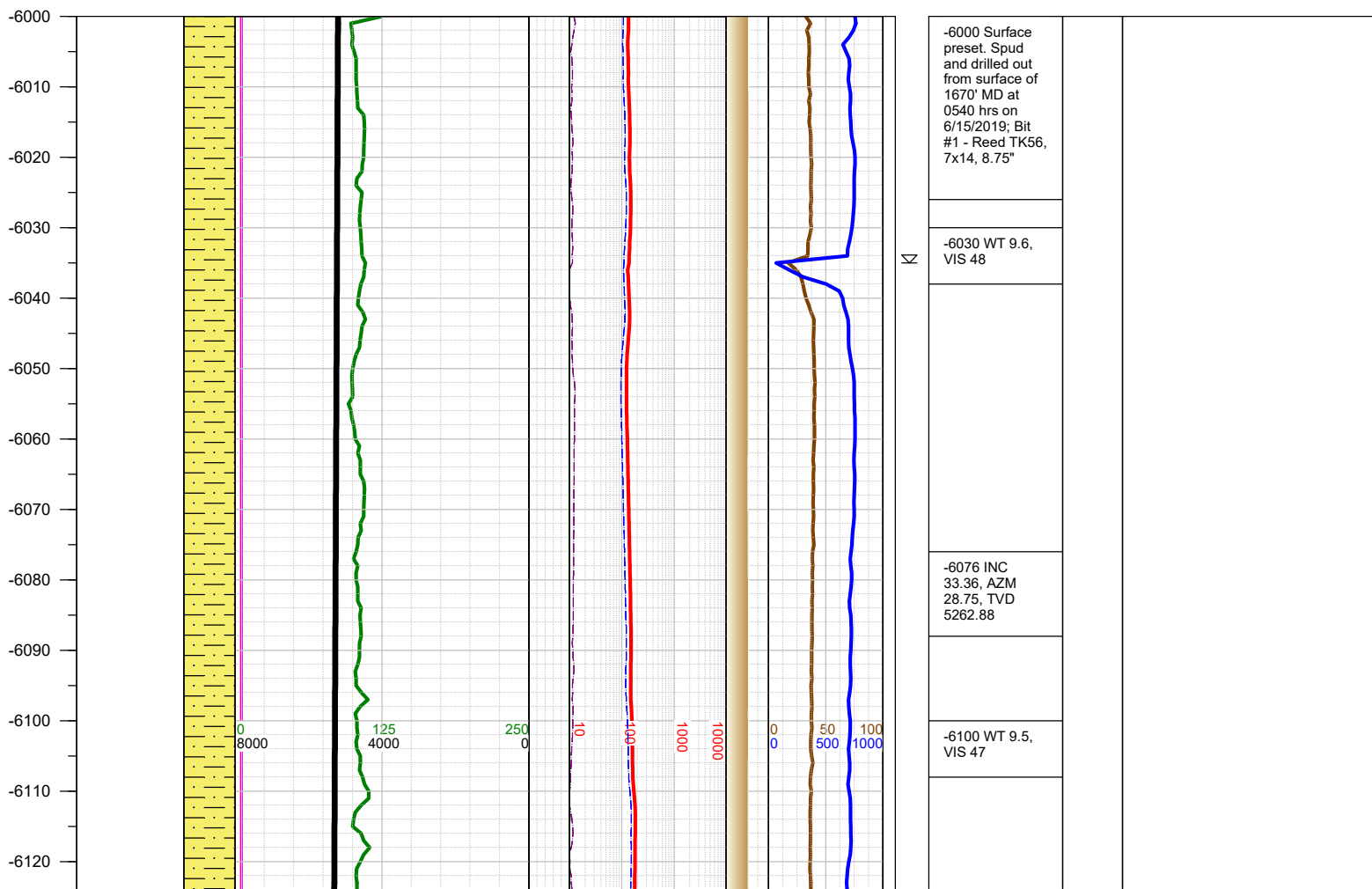
COUNTY: Broomfield  
 STATE: Colorado  
 GROUND ELEVATION: 5206'  
 KELLY BUSHING: 5235'  
 DRILLING FLUID: OBM  
 TVD VS. MD: 7917' / 24655'  
 SPUD DATE: June 15, 2019  
 TD DATE: June 19, 2019  
 DEPTHS LOGGED: 6000' - 24655'  
 DATES LOGGED: June 15, 2019 - June 19, 2019  
 GEOLOGISTS: Dominic Pitre, Madison Miller  
 SCALE: 5" = 100'

**LEGEND**

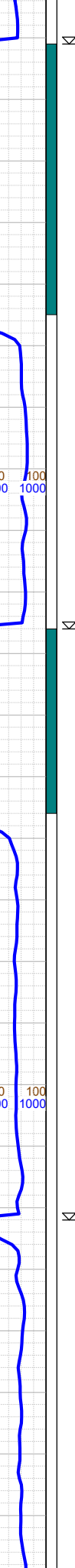
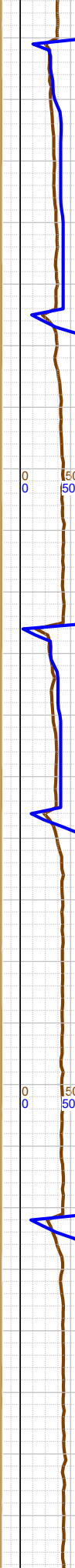
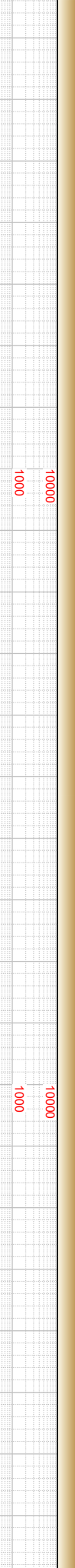
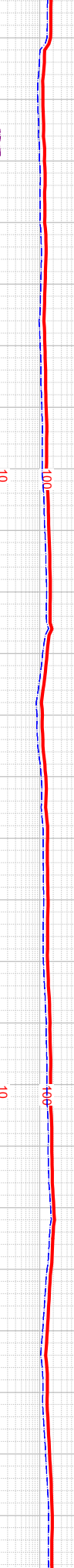
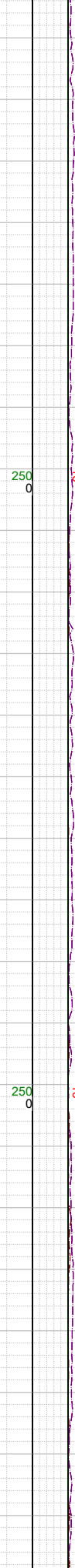
	CHALK		SHALE
	LIMESTONE		SILTY SHALE
	SHALY LIMESTONE		SHALY SILTSTONE
	MARLSTONE		SHALY SANDSTONE
	CALCAREOUS SHALE		SANDSTONE
	DOLOMITE		ANHYDRITE

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

MEASURED DEPTH (FT)	PHOTOS	MUDLOGGER INTERP	GEOSTEERING INTERP		F & B	OIL SHOWS	GAS	MUD VOL. - 800 bbl	ROF ft/hr 1000	WOB klbs 100	SLIDES SYMBOLS	COMMENTS	CUTTINGS %	SAMPLE DESCRIPTION
			Target Top / Base	TVD ft										
			8000				— Total	0		0				
				GAMMA api			--- C1							
			0				--- C2							
							--- C3							
							--- C4							



-6130  
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-6360  
-6370



INC  
AZM  
TVD

-6172 INC  
35.84, AZM  
31.48, TVD  
5341.9

-6200 WT 9.5,  
VIS 47



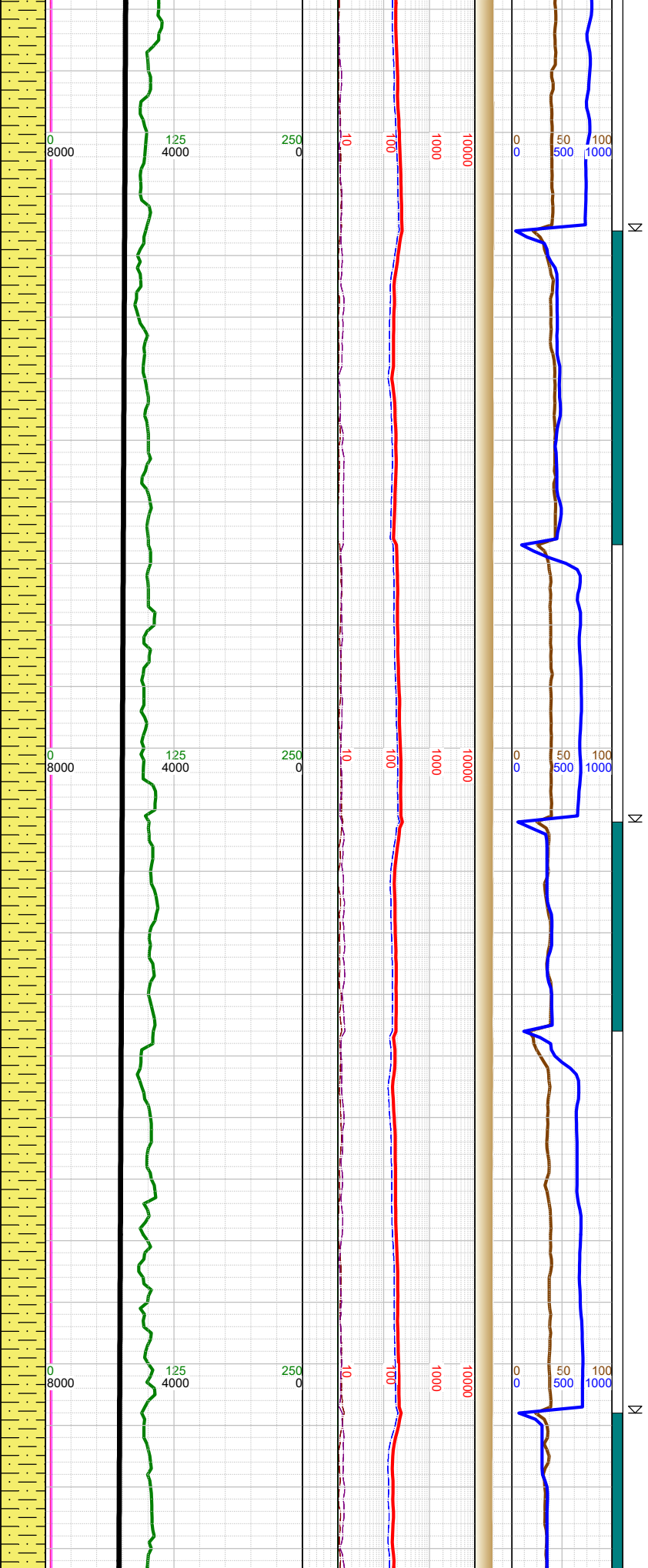
-6250 SHLY SS: lt-med gy,  
fri sd agg, f gr, sbrnd-  
sbang, mod srt, sl calc cmt,  
mod uncons sd grs; SHLY  
SLTST: med-dk gy, frm,  
blky-sb blky, gr-rthy, sl  
calc, f sd intbd;

-6267 INC  
38.58, AZM  
29.98, TVD  
5417.56

-6300 WT 9.5,  
VIS 47

-6363 INC  
34.73, AZM  
25.88, TVD  
5494.57

-6380  
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-6400  
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-6620  
-6630



-6400 WT 9.5,  
VIS 47

-6458 INC  
34.34, AZM 31,  
TVD 5572.85

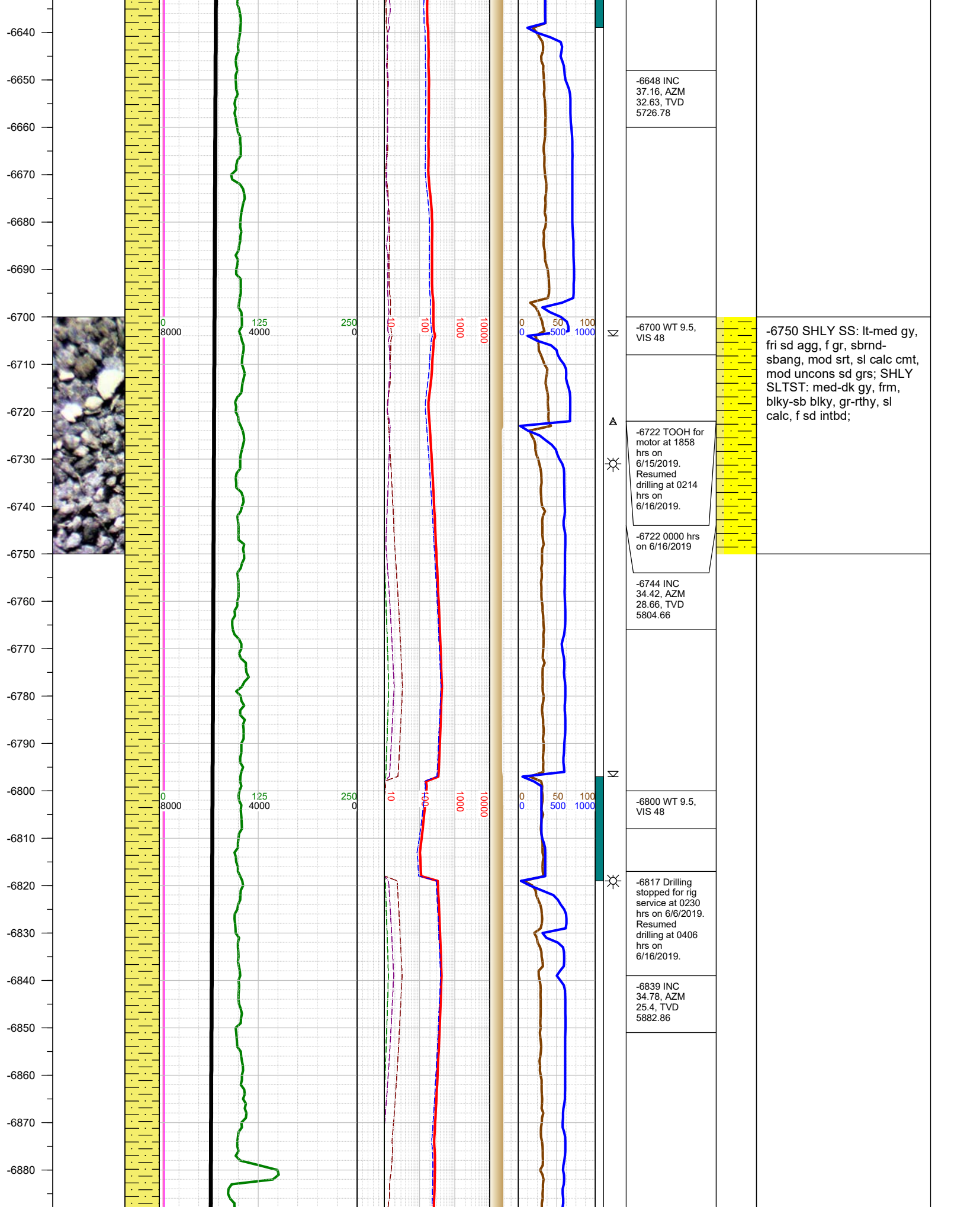
-6500 WT 9.5,  
VIS 47

-6553 INC  
36.01, AZM  
33.68, TVD  
5650.5

-6600 WT 9.5,  
VIS 48



-6500 SHLY SS: lt-med gy,  
fri sd agg, f gr, sbrnd-  
sbang, mod srt, sl calc cmt,  
mod unconss sd grs; SHLY  
SLTST: med-dk gy, frm,  
blky-sb blky, gr-rthy, sl  
calc, f sd intbd;



-6648 INC  
37.16, AZM  
32.63, TVD  
5726.78

-6700 WT 9.5,  
VIS 48

-6722 TOOH for  
motor at 1858  
hrs on  
6/15/2019.  
Resumed  
drilling at 0214  
hrs on  
6/16/2019.

-6722 0000 hrs  
on 6/16/2019

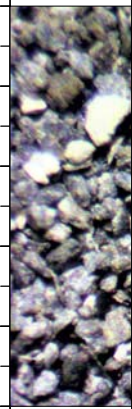
-6744 INC  
34.42, AZM  
28.66, TVD  
5804.66

-6800 WT 9.5,  
VIS 48

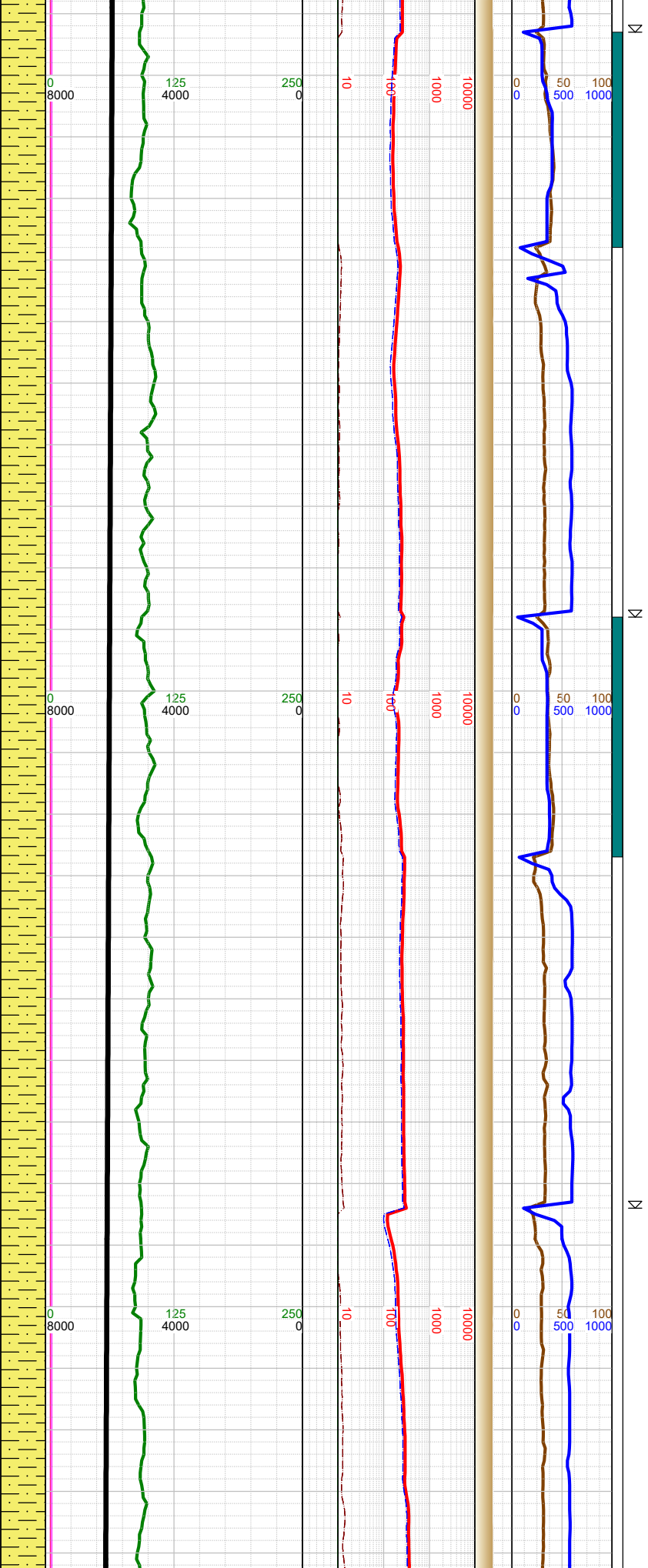
-6817 Drilling  
stopped for rig  
service at 0230  
hrs on 6/6/2019.  
Resumed  
drilling at 0406  
hrs on  
6/16/2019.

-6839 INC  
34.78, AZM  
25.4, TVD  
5882.86

-6750 SHLY SS: lt-med gy,  
fri sd agg, f gr, sbrnd-  
sbang, mod srt, sl calc cmt,  
mod uncons sd grs; SHLY  
SLTST: med-dk gy, frm,  
blk-sb blk, gr-rthy, sl  
calc, f sd intbd;



-6890  
-6900  
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-6960  
-6970  
-6980  
-6990  
-7000  
-7010  
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-7080  
-7090  
-7100  
-7110  
-7120  
-7130  
-7140



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-6900 WT 9.5,  
VIS 48

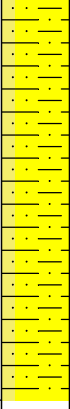
-6935 INC  
35.71, AZM  
27.16, TVD  
5961.27

-7000 WT 9.5,  
VIS 48

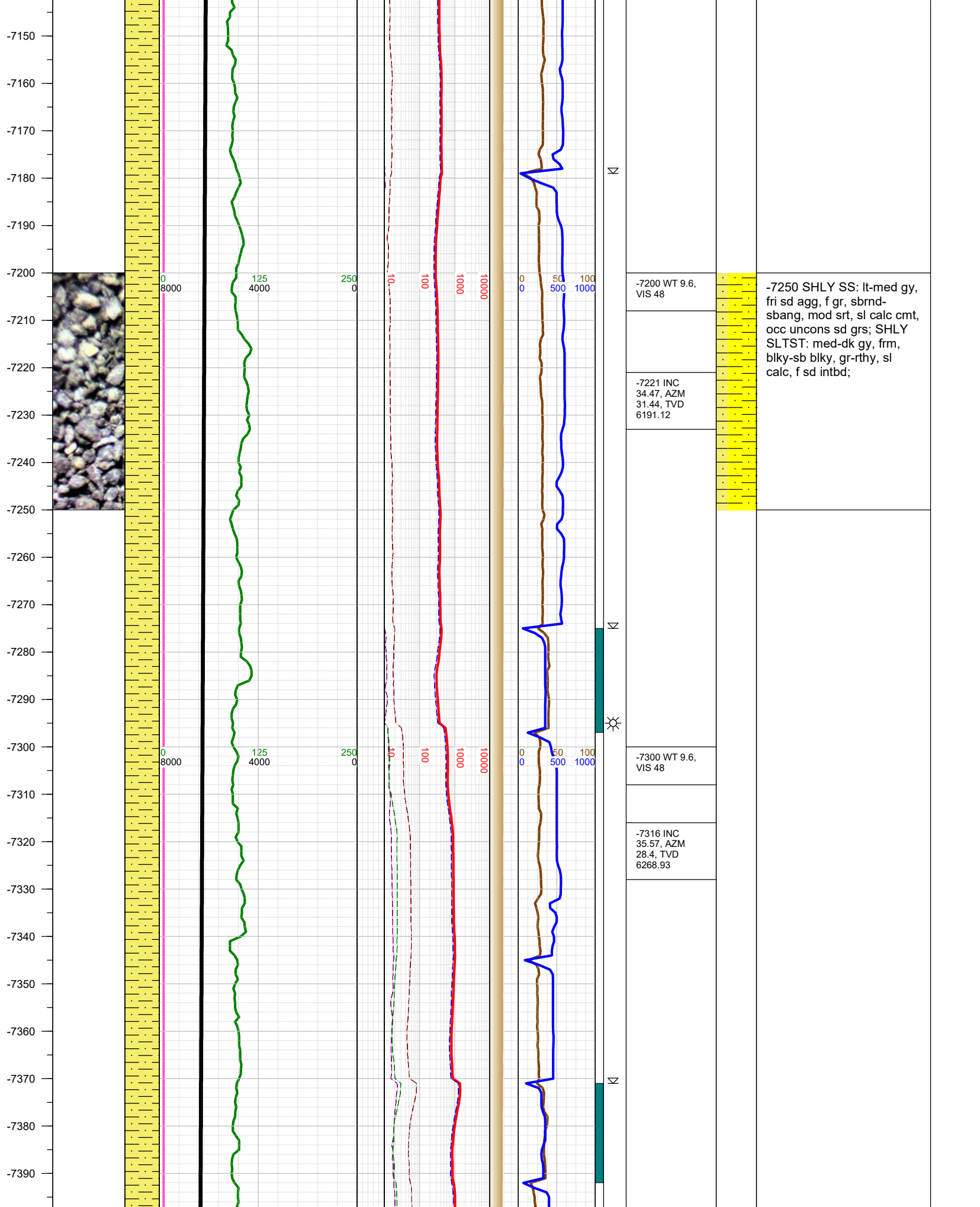
-7030 INC  
38.05, AZM  
34.78, TVD  
6037.29

-7100 WT 9.6,  
VIS 48

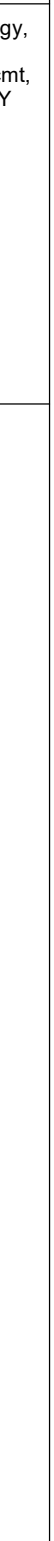
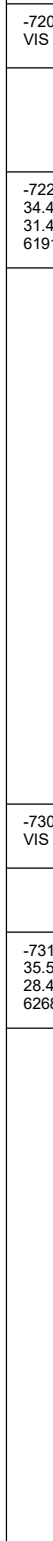
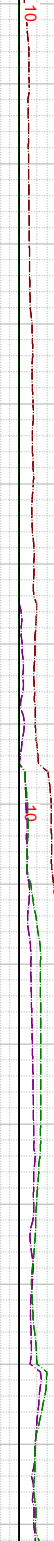
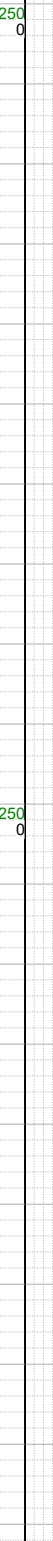
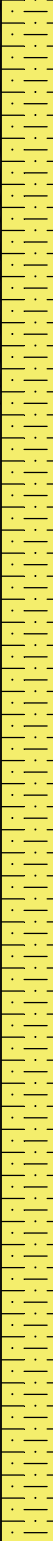
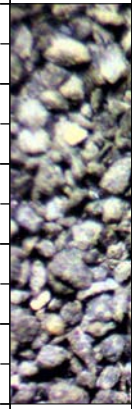
-7126 INC  
36.41, AZM  
32.54, TVD  
6113.73



-7000 SHLY SS: lt-med gy,  
fri sd agg, f gr, sbrnd-  
sbang, mod srt, sl calc cmt,  
mod uncons sd grs; SHLY  
SLTST: med-dk gy, frm,  
blky-sb blky, gr-rthy, sl  
calc, f sd intbd;



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-7200 WT 9.6,  
VIS 48

-7221 INC  
34.47, AZM  
31.44, TVD  
6191.12

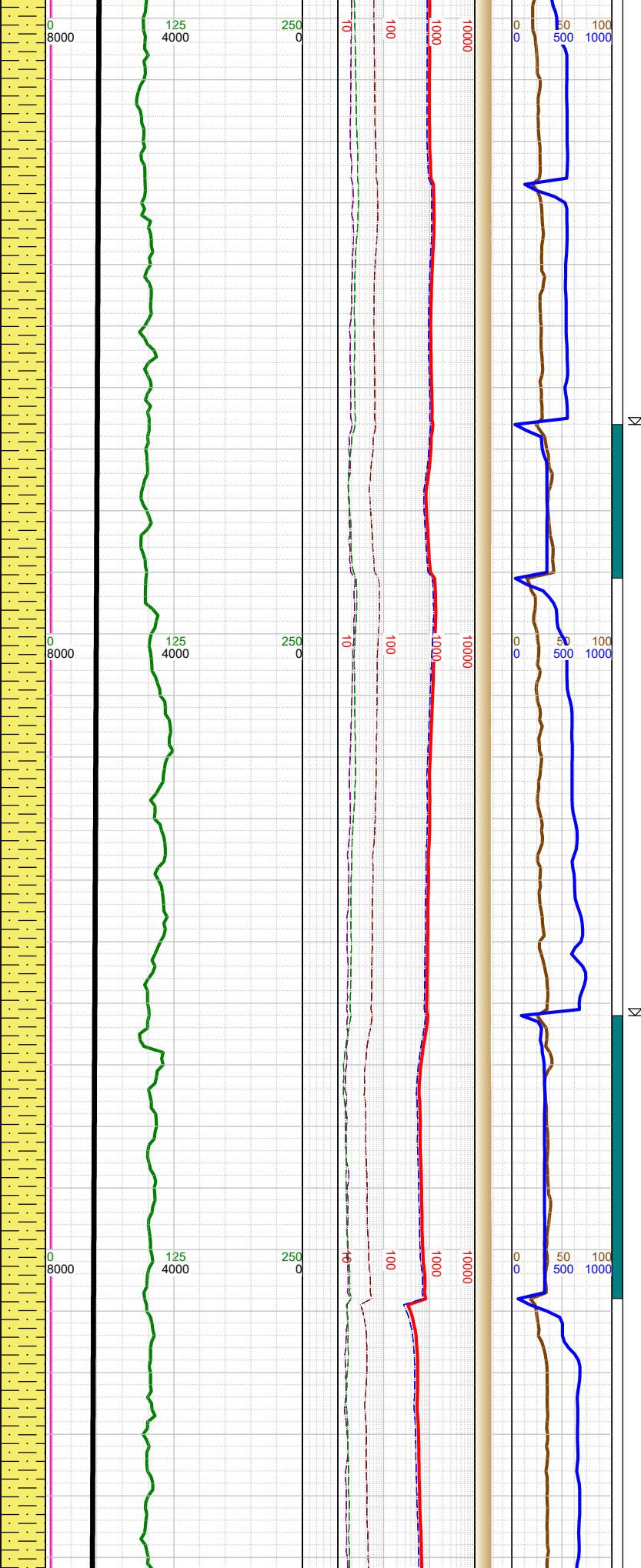
-7300 WT 9.6,  
VIS 48

-7316 INC  
35.57, AZM  
28.4, TVD  
6268.93

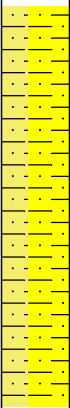
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fri sd agg, f gr, sbrnd-  
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blky-sb blky, gr-rthy, sl  
calc, f sd intbd;



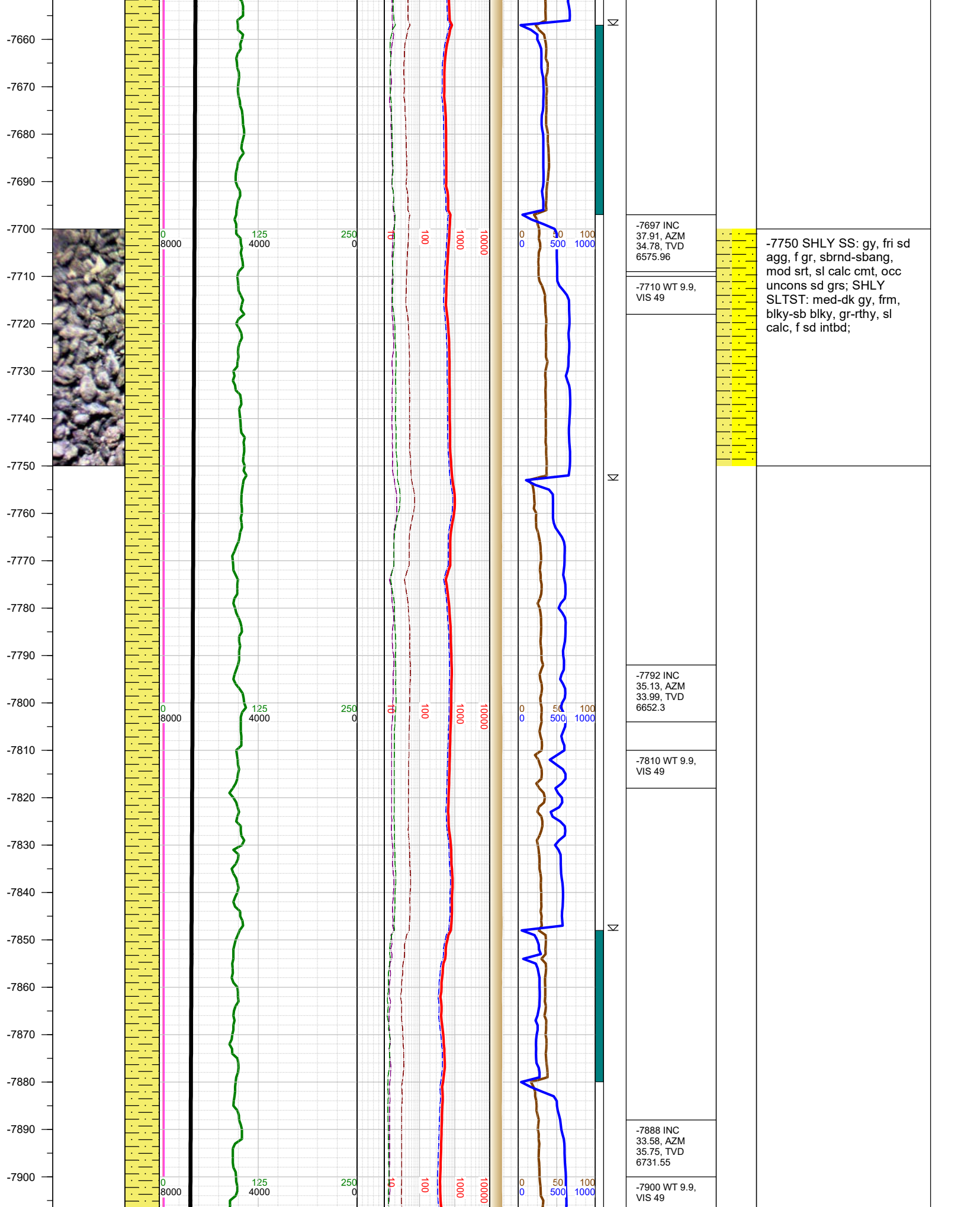
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-7400 WT 9.6, VIS 48
-7411 INC 35.09, AZM 31.48, TVD 6346.44
-7506 INC 36.01, AZM 31.13, TVD 6423.73
-7520 WT 9.6, VIS 48
-7602 INC 37.38, AZM 28.75, TVD 6500.71
-7620 WT 9.9, VIS 49



-7500 SHLY SS: gy, fri sd  
agg, f gr, sbrnd-sbang,  
mod srt, sl calc cmt, occ  
uncons sd grs; SHLY  
SLTST: med-dk gy, frm,  
blky-sb blky, gr-rthy, sl  
calc, f sd intbd;



-7697 INC  
37.91, AZM  
34.78, TVD  
6575.96

-7710 WT 9.9,  
VIS 49

-7750 SHLY SS: gy, fri sd  
agg, f gr, sbrnd-sbang,  
mod srt, sl calc cmt, occ  
uncons sd grs; SHLY  
SLTST: med-dk gy, frm,  
blky-sb blky, gr-rthy, sl  
calc, f sd intbd;

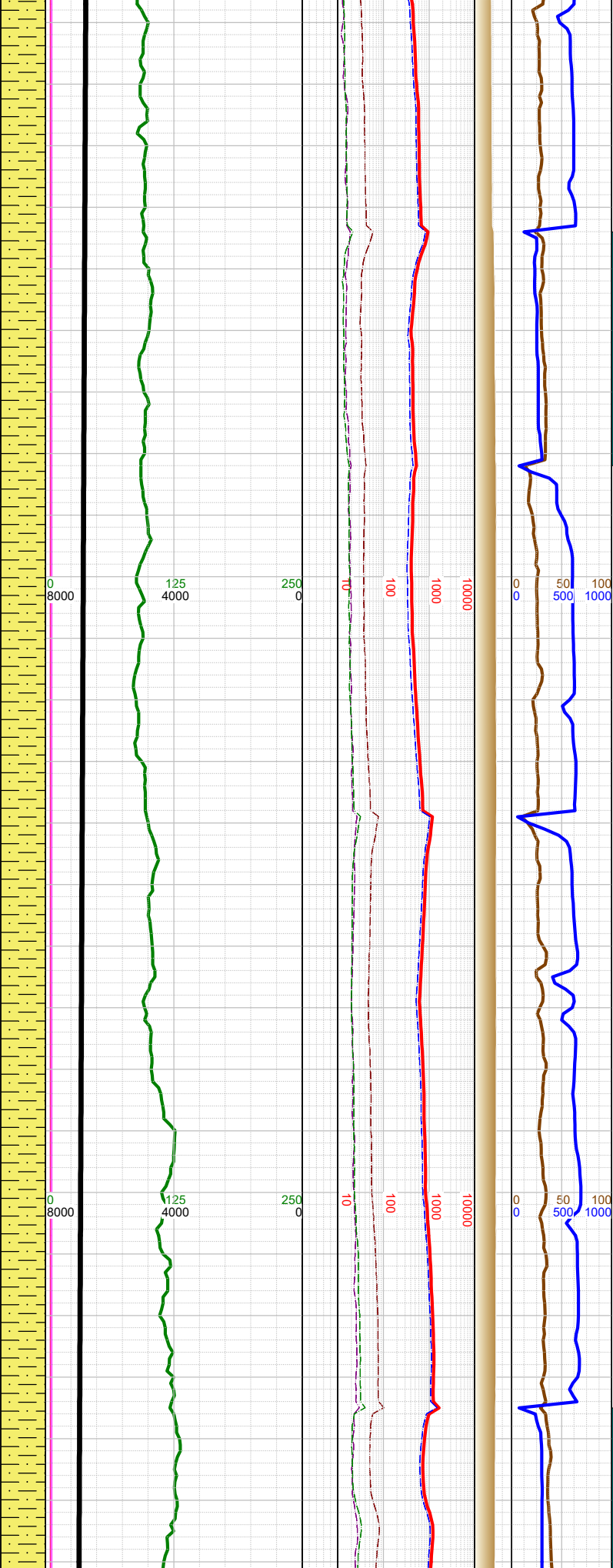
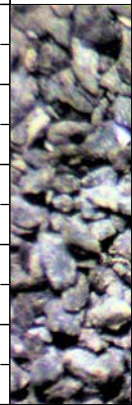
-7792 INC  
35.13, AZM  
33.99, TVD  
6652.3

-7810 WT 9.9,  
VIS 49

-7888 INC  
33.58, AZM  
35.75, TVD  
6731.55

-7900 WT 9.9,  
VIS 49

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-7980  
-7990  
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-8080  
-8090  
-8100  
-8110  
-8120  
-8130  
-8140  
-8150  
-8160



0 8000 125 4000 250 0 10 100 1000 10000 0 50 100 500 1000

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-7983 INC 35.62, AZM 32.36, TVD 6809.75
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-8000 WT 9.9, VIS 50
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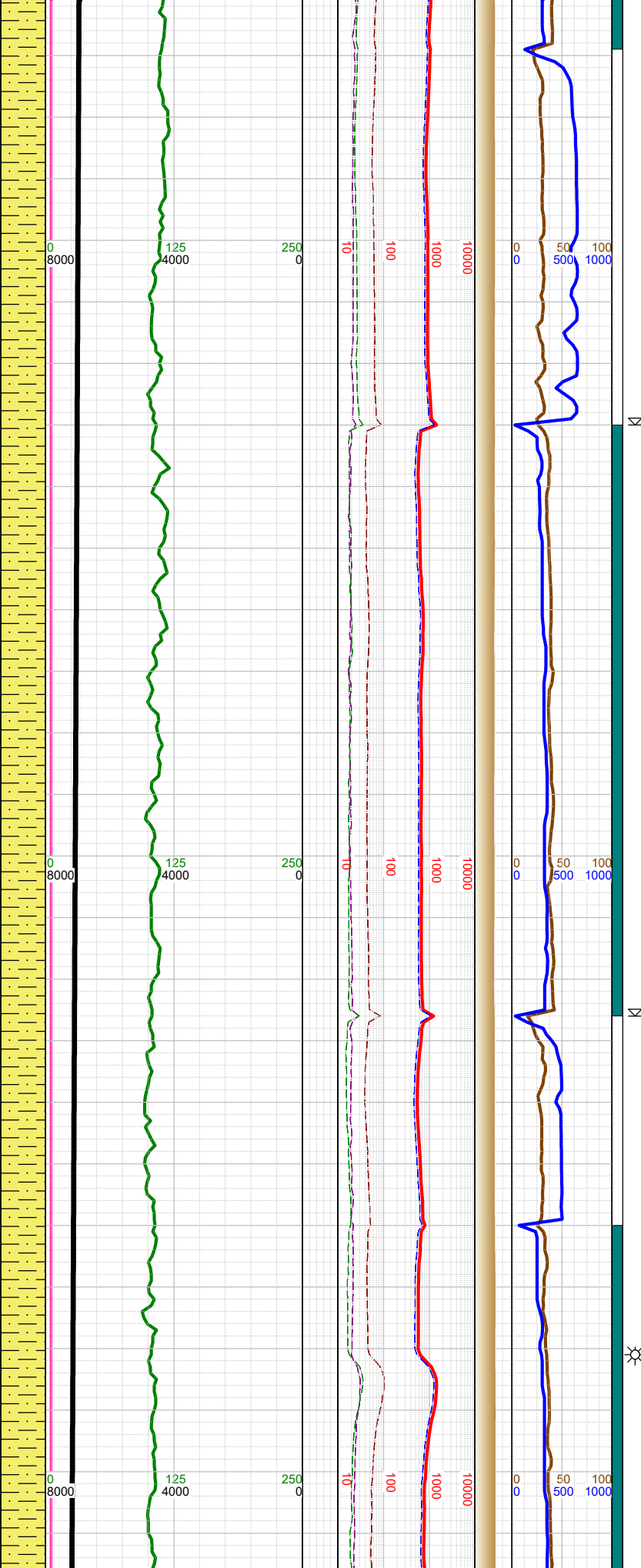
-8079 INC 32.97, AZM 32.23, TVD 6889.05
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-8100 WT 9.9, VIS 50
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-8000 SHLY SLTST: med-  
dk gy, frm, blk-sb blk, gr-  
rthy, sl calc, f sd intbd;  
SHLY SS: gy, fri sd agg, f  
gr, sbrnd-sbang, mod srt, sl  
calc cmt, occ uncons sd  
grs;

-8170  
-8180  
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-8174 INC  
34.16, AZM  
30.42, TVD  
6968.21

-8200 WT 9.9,  
VIS 50

-8250 SHLY SLTST: med-  
dk gy, frm, blk-y-sb blk-y, gr-  
rthy, sl calc, f sd intbd;  
SHLY SS: gy, fri sd agg, f  
gr, sbrnd-sbang, mod srt, sl  
calc cmt, occ uncons sd  
grs;

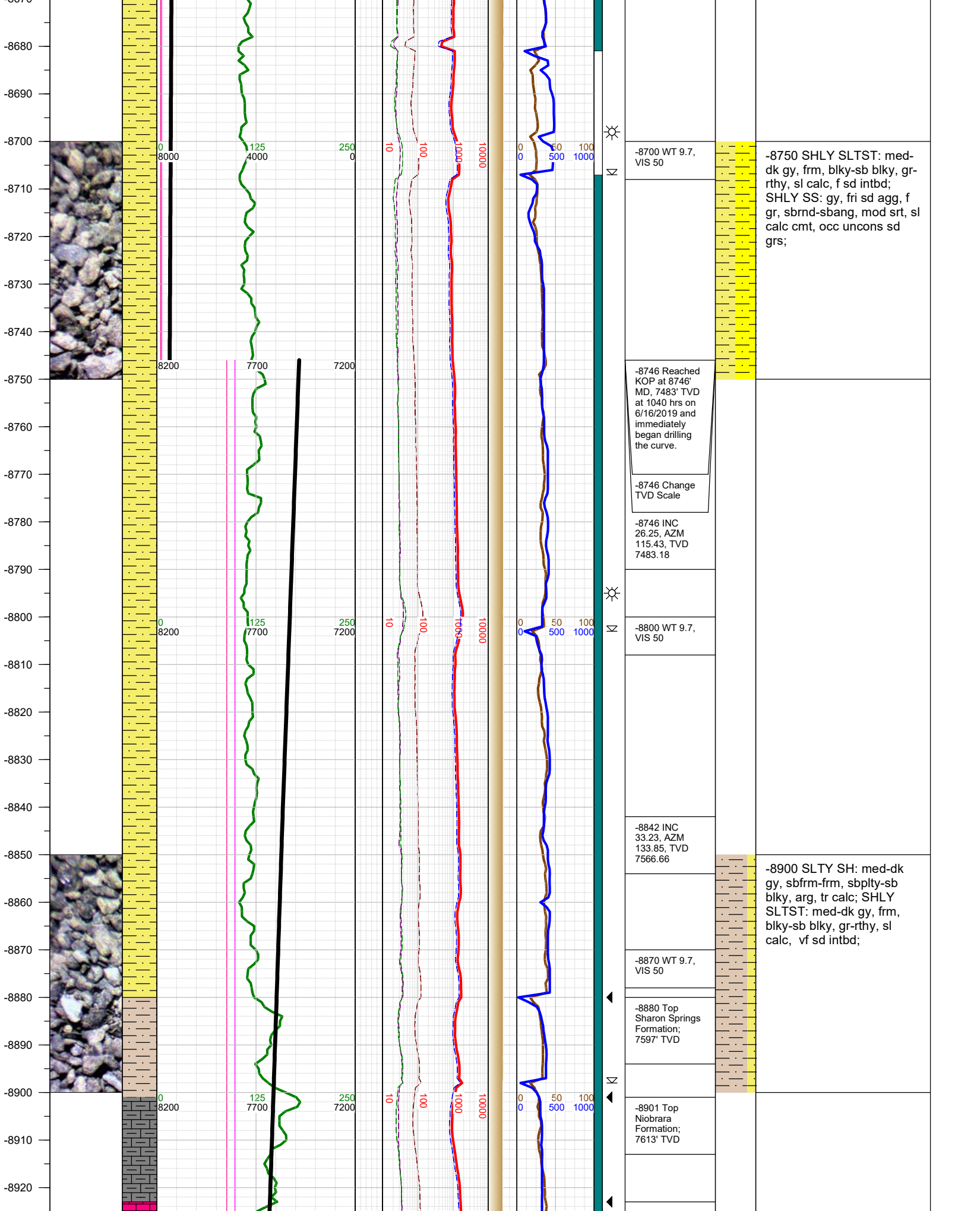
-8269 INC  
31.64, AZM  
42.89, TVD  
7048.06

-8300 WT 9.7,  
VIS 50

-8364 INC  
27.66, AZM  
63.34, TVD  
7130.82

-8400 WT 9.7,  
VIS 50





-8700 WT 9.7, VIS 50

-8750 SHLY SLTST: med-dk gy, frm, blk-sb blk, gr-rthy, sl calc, f sd intbd; SHLY SS: gy, fri sd agg, f gr, sbrnd-sbang, mod srt, sl calc cmt, occ uncons sd grs;

-8746 Reached KOP at 8746' MD, 7483' TVD at 1040 hrs on 6/16/2019 and immediately began drilling the curve.

-8746 Change TVD Scale

-8746 INC 26.25, AZM 115.43, TVD 7483.18

-8800 WT 9.7, VIS 50

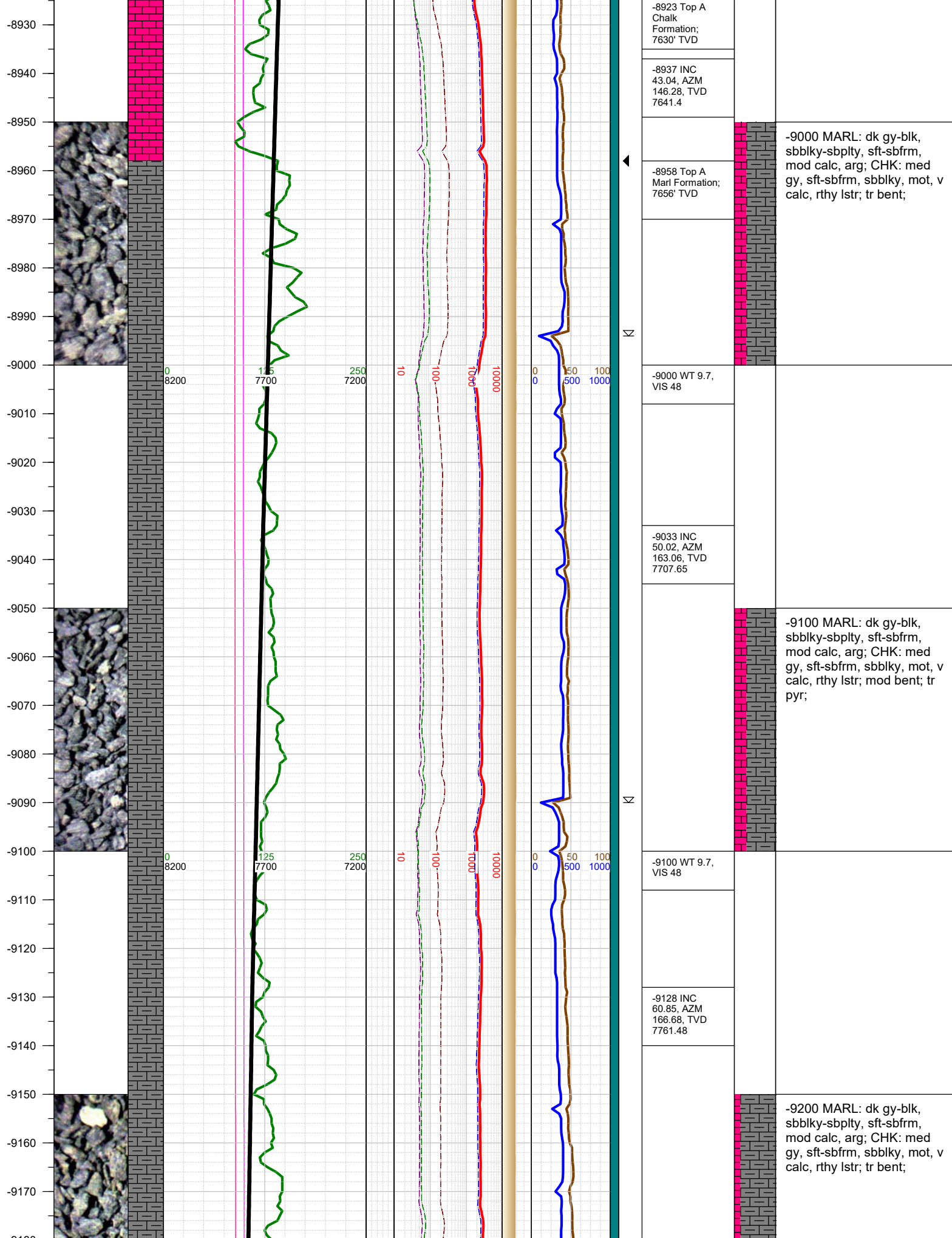
-8842 INC 33.23, AZM 133.85, TVD 7566.66

-8900 SLTY SH: med-dk gy, sbfrm-frm, sbply-sb blk, arg, tr calc; SHLY SLTST: med-dk gy, frm, blk-sb blk, gr-rthy, sl calc, vf sd intbd;

-8870 WT 9.7, VIS 50

-8880 Top Sharon Springs Formation; 7597' TVD

-8901 Top Niobrara Formation; 7613' TVD



-8923 Top A  
Chalk  
Formation;  
7630' TVD

-8937 INC  
43.04, AZM  
146.28, TVD  
7641.4

-8958 Top A  
Marl Formation;  
7656' TVD

-9000 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbly, mot, v  
calc, rthy lstr; tr bent;

-9000 WT 9.7,  
VIS 48

-9033 INC  
50.02, AZM  
163.06, TVD  
7707.65

-9100 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbly, mot, v  
calc, rthy lstr; mod bent; tr  
pyr;

-9100 WT 9.7,  
VIS 48

-9128 INC  
60.85, AZM  
166.68, TVD  
7761.48

-9200 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbly, mot, v  
calc, rthy lstr; tr bent;

0  
8200

1.25  
7700

250  
7200

10

100

1000

10000

0  
0

50  
500

100  
1000

0  
8200

1.25  
7700

250  
7200

10

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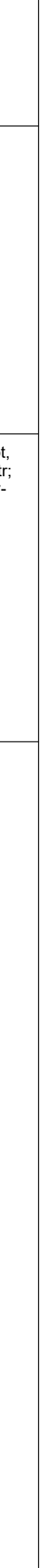
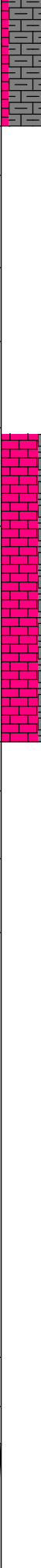
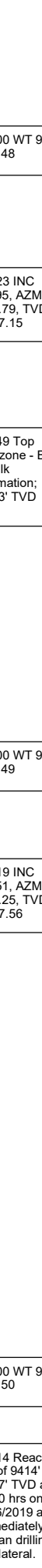
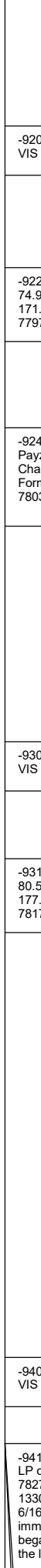
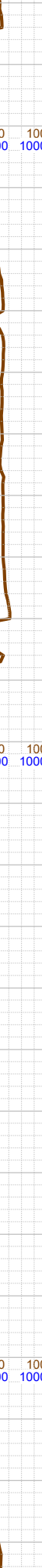
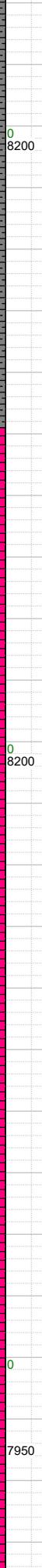
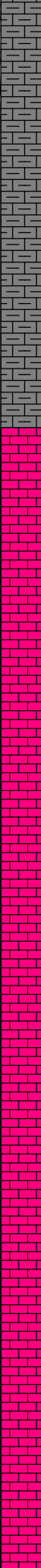
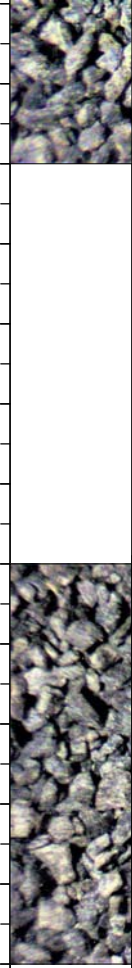
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-9430



-9200 WT 9.7,  
VIS 48

-9223 INC  
74.95, AZM  
171.79, TVD  
7797.15

-9249 Top  
Payzone - B2  
Chalk  
Formation;  
7803' TVD

-9300 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbply, sft-sbfrm; tr foss  
frag; tr forams; tr pyr; tr  
bent;

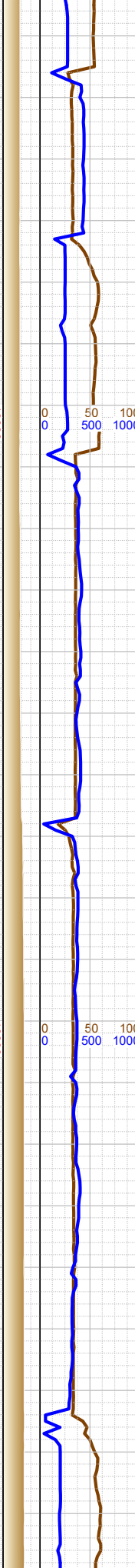
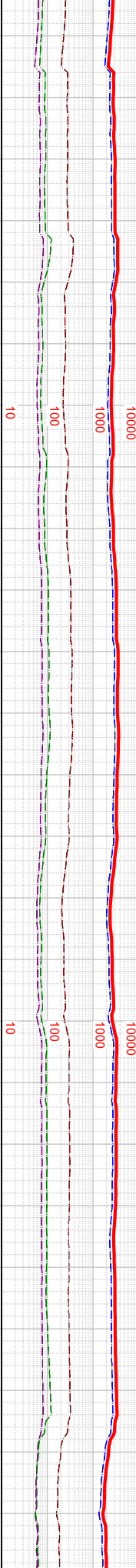
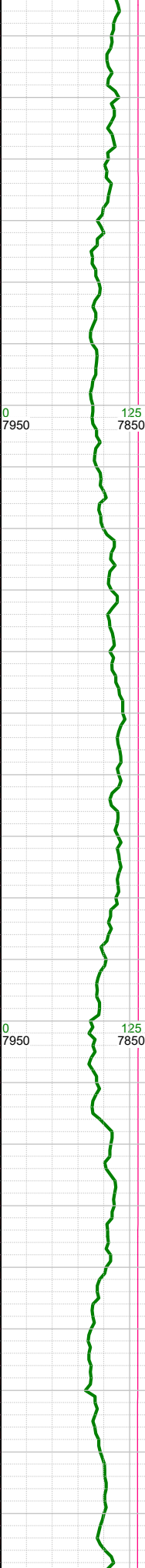
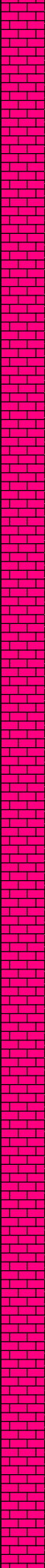
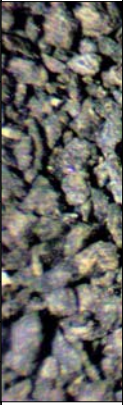
-9300 WT 9.7,  
VIS 49

-9319 INC  
80.51, AZM  
177.25, TVD  
7817.56

-9400 WT 9.7,  
VIS 50

-9414 Reached  
LP of 9414' MD,  
7827' TVD at  
1330 hrs on  
6/16/2019 and  
immediately  
began drilling  
the lateral.

-9440  
-9450  
-9460  
-9470  
-9480  
-9490  
-9500  
-9510  
-9520  
-9530  
-9540  
-9550  
-9560  
-9570  
-9580  
-9590  
-9600  
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-9640  
-9650  
-9660  
-9670  
-9680



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K  
K



-9414 Change  
TVD Scale

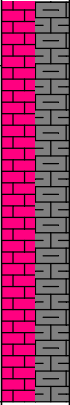
-9414 INC  
88.69, AZM  
179.37, TVD  
7826.5

-9500 WT 9.7,  
VIS 50

-9509 INC  
88.51, AZM  
183.51, TVD  
7828.82

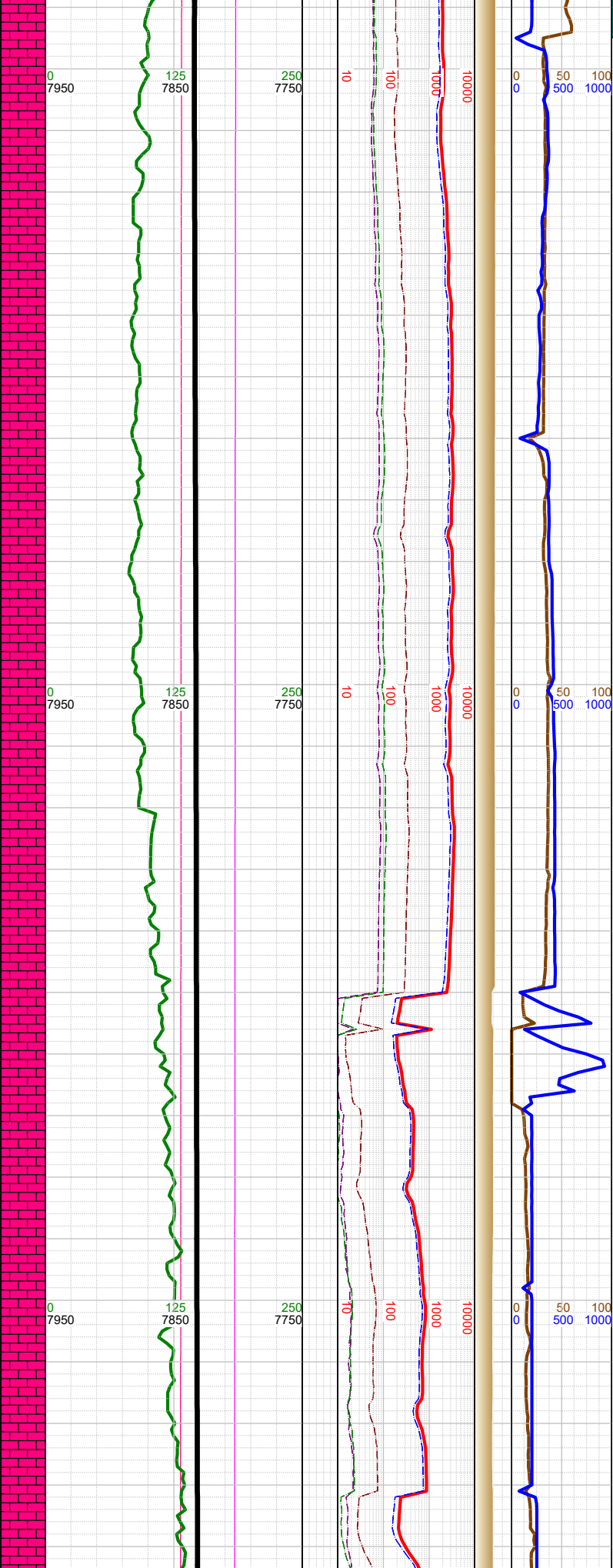
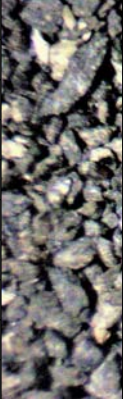
-9605 INC  
87.01, AZM  
183.29, TVD  
7832.57

-9620 WT 9.7,  
VIS 50



-9500 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbply, sft-sbfrm; mod foss  
frag; tr forams;

-9690  
-9700  
-9710  
-9720  
-9730  
-9740  
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-9760  
-9770  
-9780  
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-9850  
-9860  
-9870  
-9880  
-9890  
-9900  
-9910  
-9920  
-9930  
-9940



-9700 INC  
90.99, AZM  
181.75, TVD  
7834.23

-9720 WT 9.7,  
VIS 50

-9795 INC  
90.59, AZM  
180.6, TVD  
7832.92

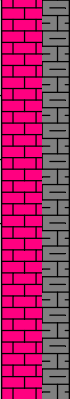
-9810 WT 9.7,  
VIS 49

-9855 TOOH for  
Orbit RSS at  
1540 hrs on  
6/16/2019.  
Resumed  
drilling at 0413  
hrs on  
6/17/2019.

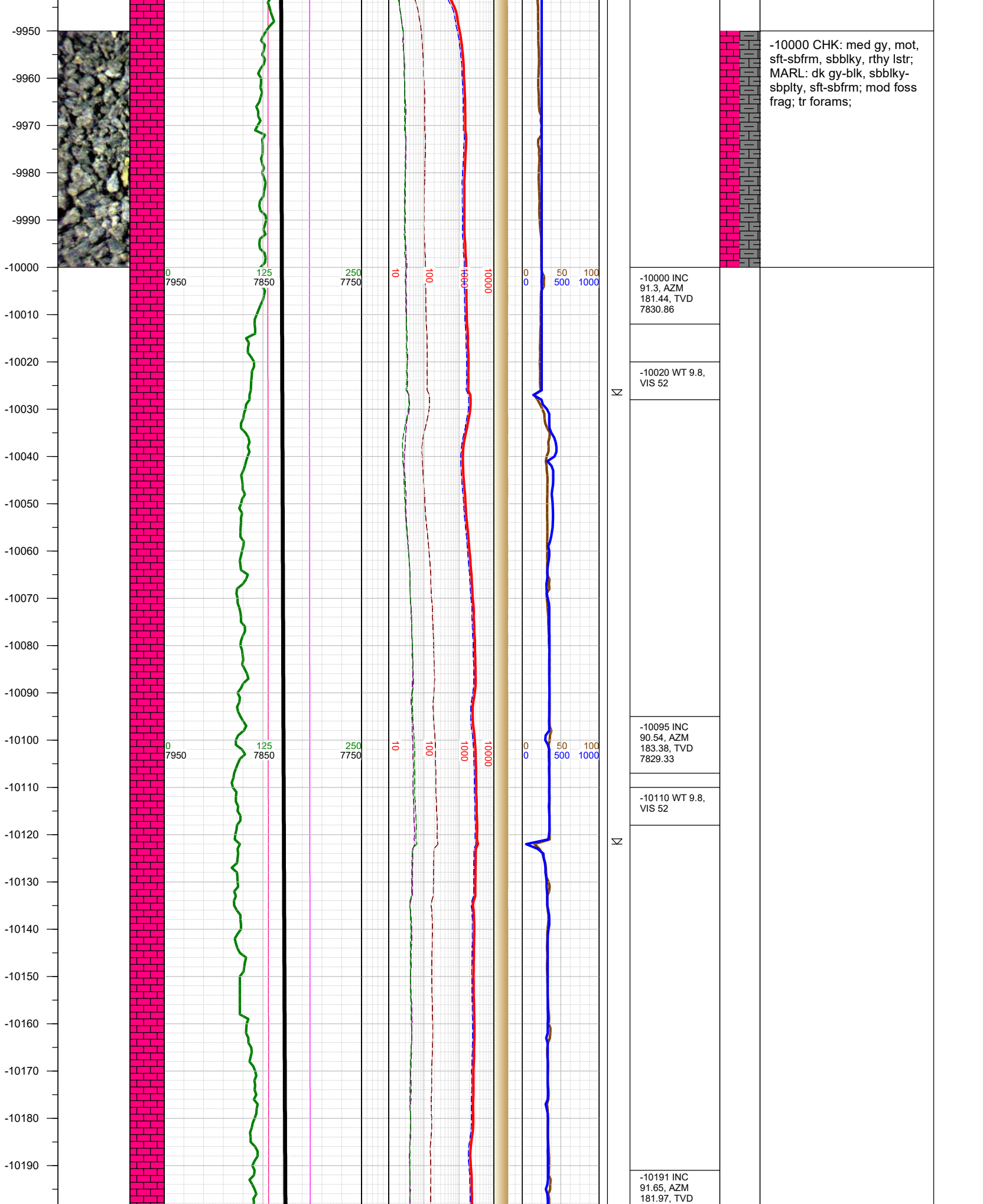
-9855 0000 hrs  
on 6/17/2019

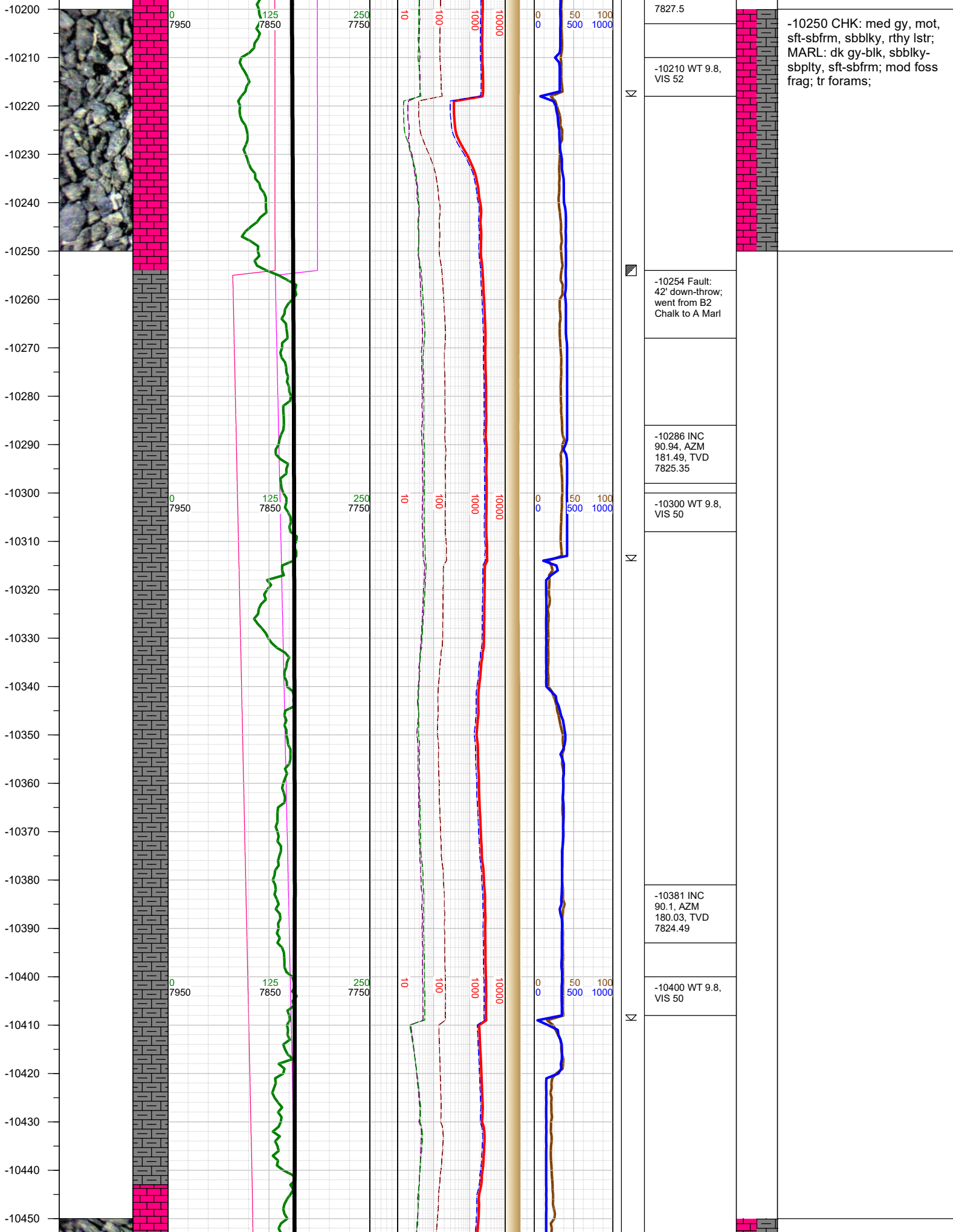
-9904 INC  
90.23, AZM  
182.5, TVD  
7832.14

-9920 WT 9.8,  
VIS 50



-9750 CHK: med gy, mot,  
sft-sbfrm, sbblky, rthy lstr;  
MARL: dk gy-blk, sbblky-  
sbply, sft-sbfrm; mod foss  
frag; tr forams;





7827.5

-10210 WT 9.8, VIS 52

-10250 CHK: med gy, mot, sft-sbfrm, sbblky, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm; mod foss frag; tr forams;

-10254 Fault: 42' down-throw; went from B2 Chalk to A Marl

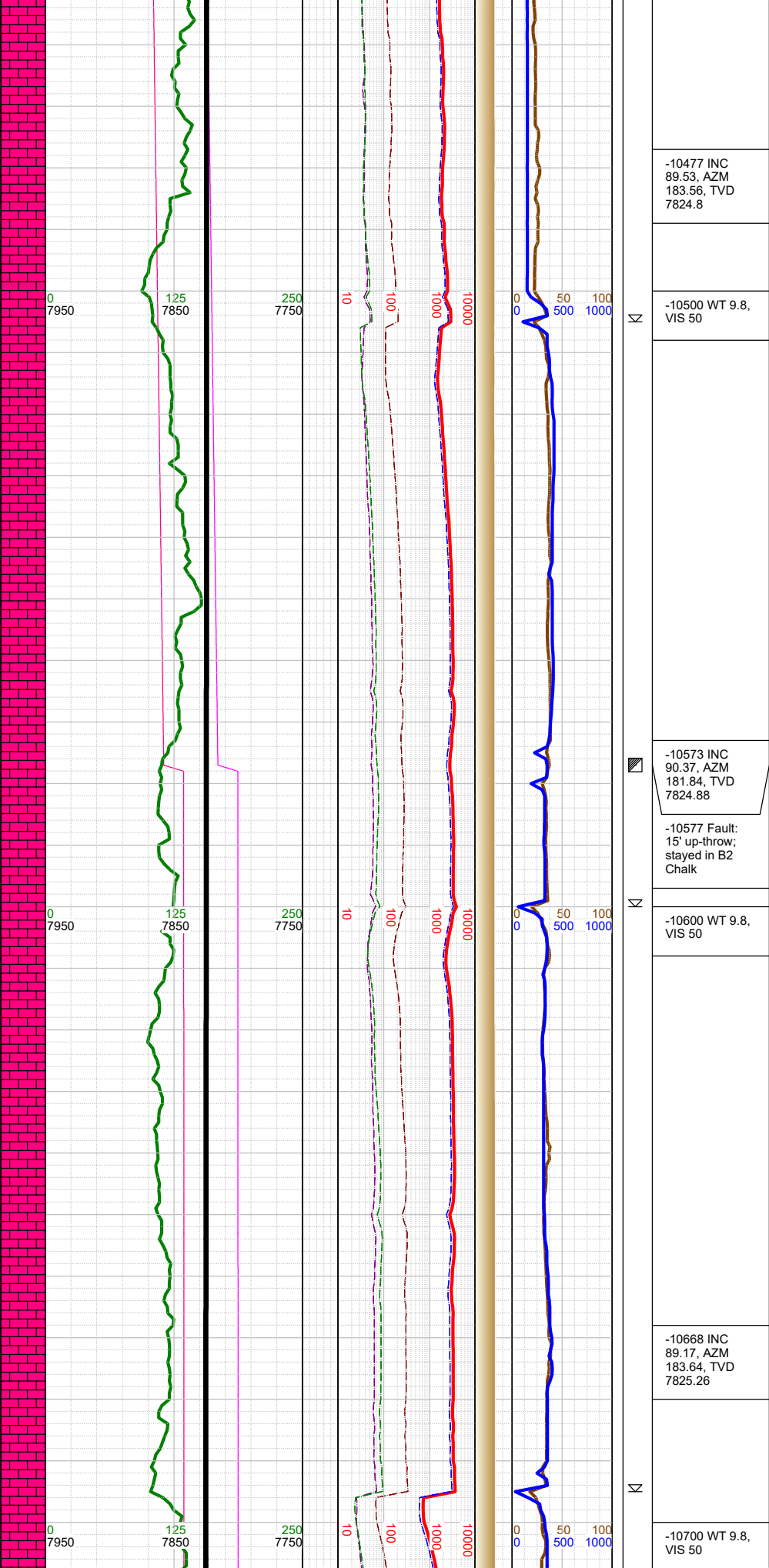
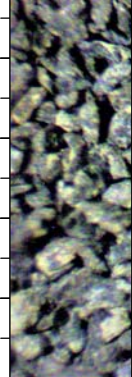
-10286 INC 90.94, AZM 181.49, TVD 7825.35

-10300 WT 9.8, VIS 50

-10381 INC 90.1, AZM 180.03, TVD 7824.49

-10400 WT 9.8, VIS 50

-10460  
-10470  
-10480  
-10490  
-10500  
-10510  
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-10610  
-10620  
-10630  
-10640  
-10650  
-10660  
-10670  
-10680  
-10690  
-10700



-10477 INC  
89.53, AZM  
183.56, TVD  
7824.8

-10500 WT 9.8,  
VIS 50

-10573 INC  
90.37, AZM  
181.84, TVD  
7824.88

-10577 Fault:  
15' up-throw;  
stayed in B2  
Chalk

-10600 WT 9.8,  
VIS 50

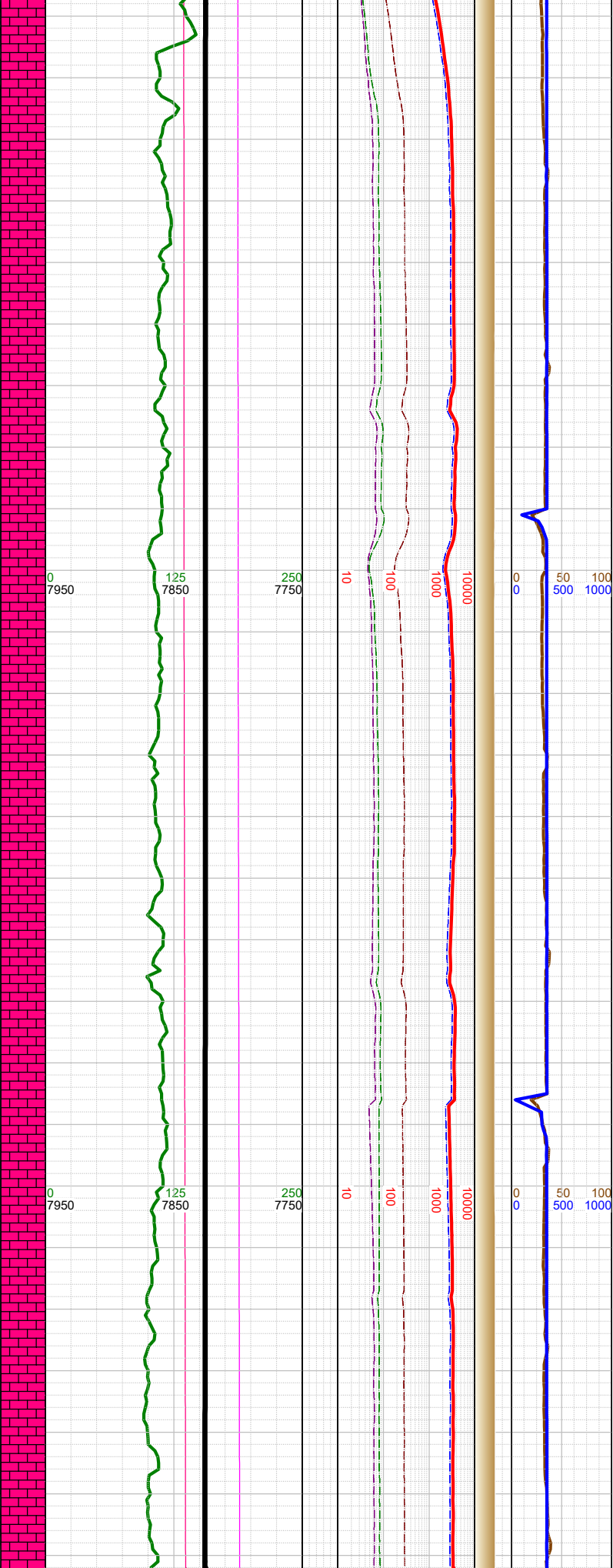
-10668 INC  
89.17, AZM  
183.64, TVD  
7825.26

-10700 WT 9.8,  
VIS 50

-10500 CHK: med gy, mot,  
sft-sbfrm, sbblky, rthy lstr;  
MARL: dk gy-blk, sbblky-  
sbply, sft-sbfrm; mod foss  
frag; tr forams;

-10750 CHK: med gy, mot,  
sft-sbfrm, sbblky, rthy lstr;

-10710  
-10720  
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-10740  
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-10760  
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-10800  
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-10950  
-10960



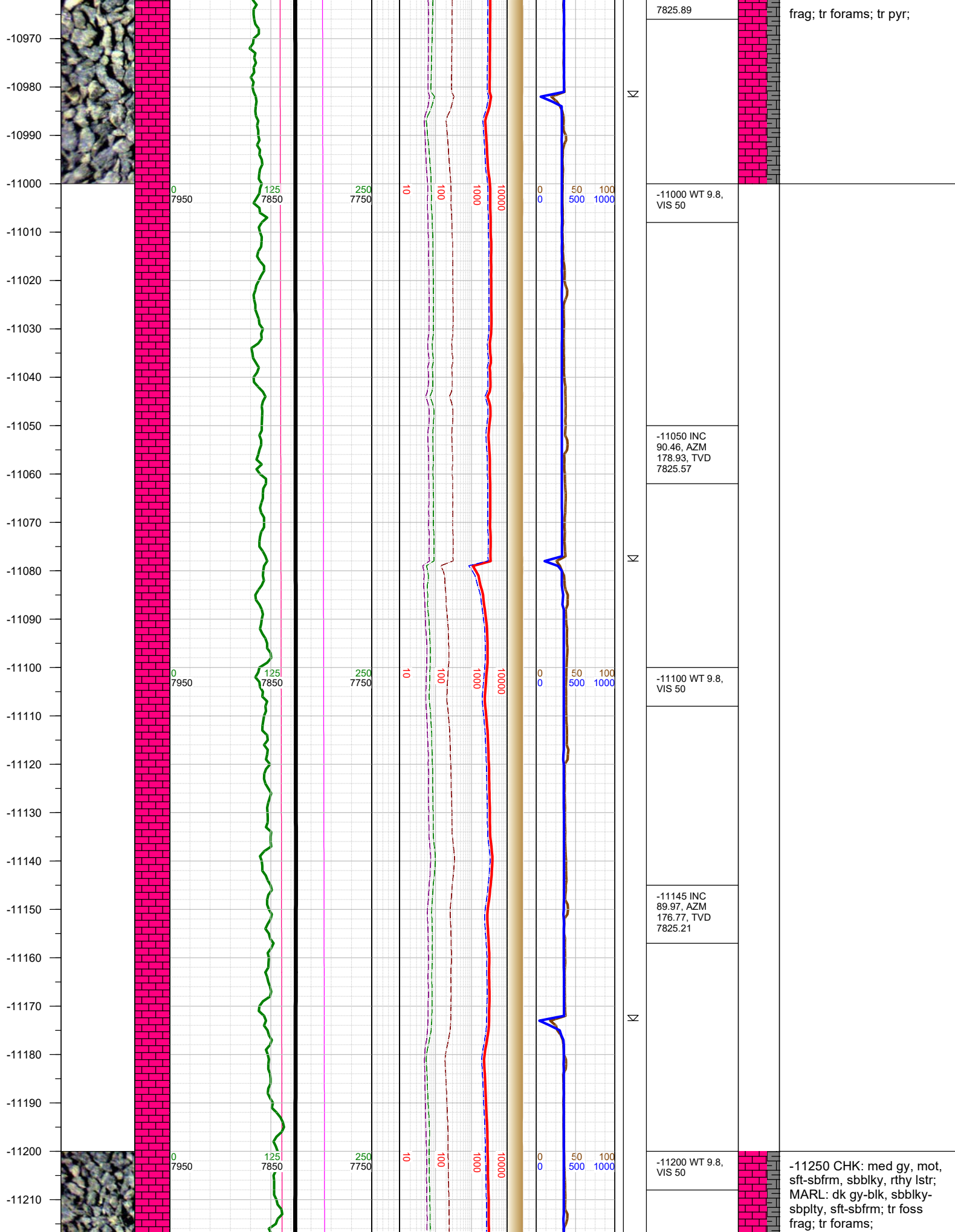
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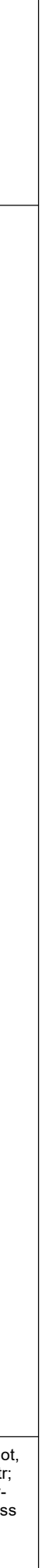
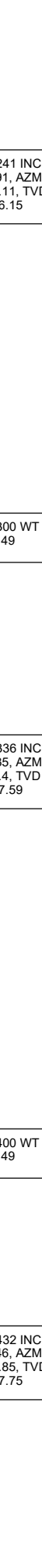
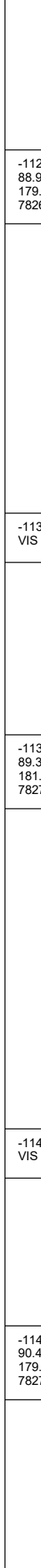
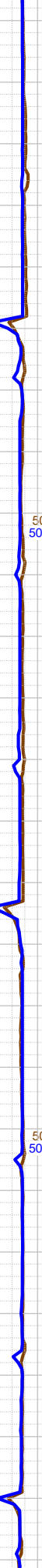
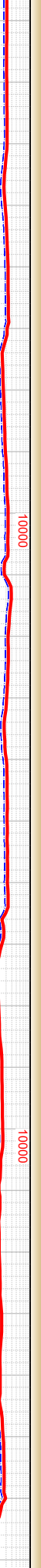
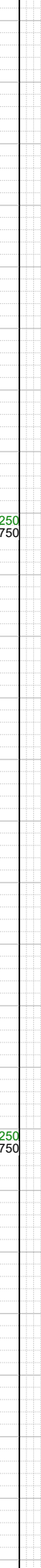
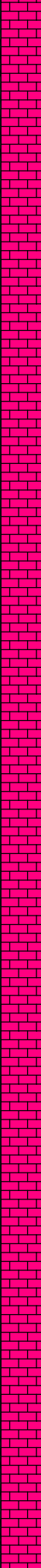
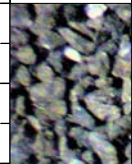
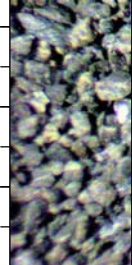
-10763 INC 90.37, AZM 181.4, TVD 7825.64	
-10800 WT 9.8, VIS 50	
-10859 INC 89.7, AZM 181.75, TVD 7825.59	
-10900 WT 9.8, VIS 50	
-10954 INC 89.93, AZM 182.1, TVD	

MARL: dk gy-blk, sbblky-sbply, sft-sbfrm; mod foss frag; tr forams;

-11000 CHK: med gy, mot, sft-sbfrm, sbblky, rthy lstr; MARL: dk gy-blk, sbblky-sbply, sft-sbfrm; tr foss



-11220  
-11230  
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-11270  
-11280  
-11290  
-11300  
-11310  
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-11360  
-11370  
-11380  
-11390  
-11400  
-11410  
-11420  
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-11440  
-11450  
-11460  
-11470



-11241 INC  
88.91, AZM  
179.11, TVD  
7826.15

-11300 WT 9.8,  
VIS 49

-11336 INC  
89.35, AZM  
181.4, TVD  
7827.59

-11400 WT 9.8,  
VIS 49

-11432 INC  
90.46, AZM  
179.85, TVD  
7827.75

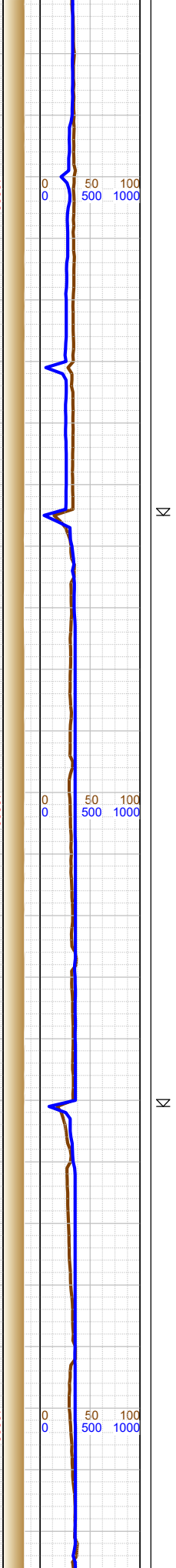
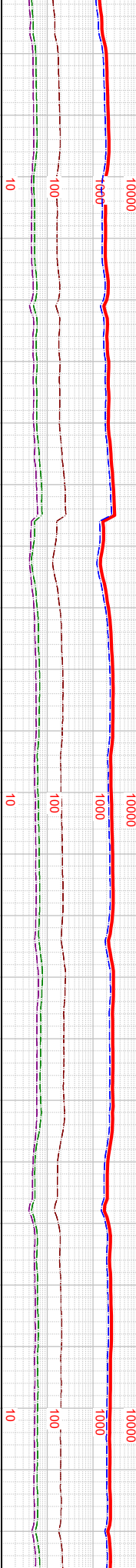
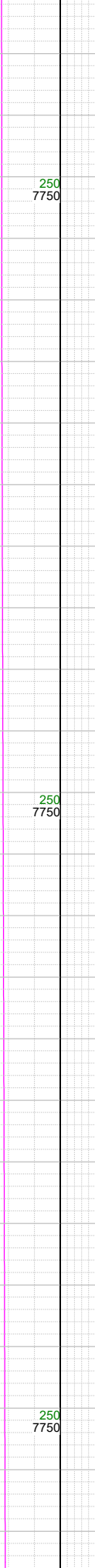
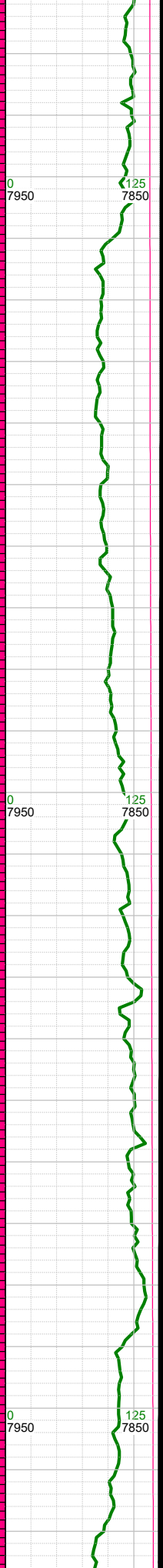
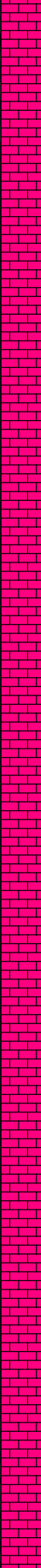
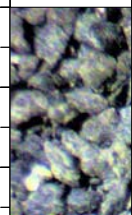
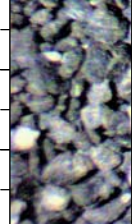
-11500 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbplty, sft-sbfrm; mod foss  
frag; tr forams;

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-11480  
-11490  
-11500  
-11510  
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-11700  
-11710  
-11720



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-11500 WT 9.8,  
VIS 53

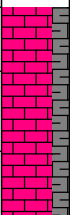
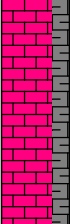
-11527 INC  
89.22, AZM  
181.13, TVD  
7828.02

-11600 WT 9.8,  
VIS 53

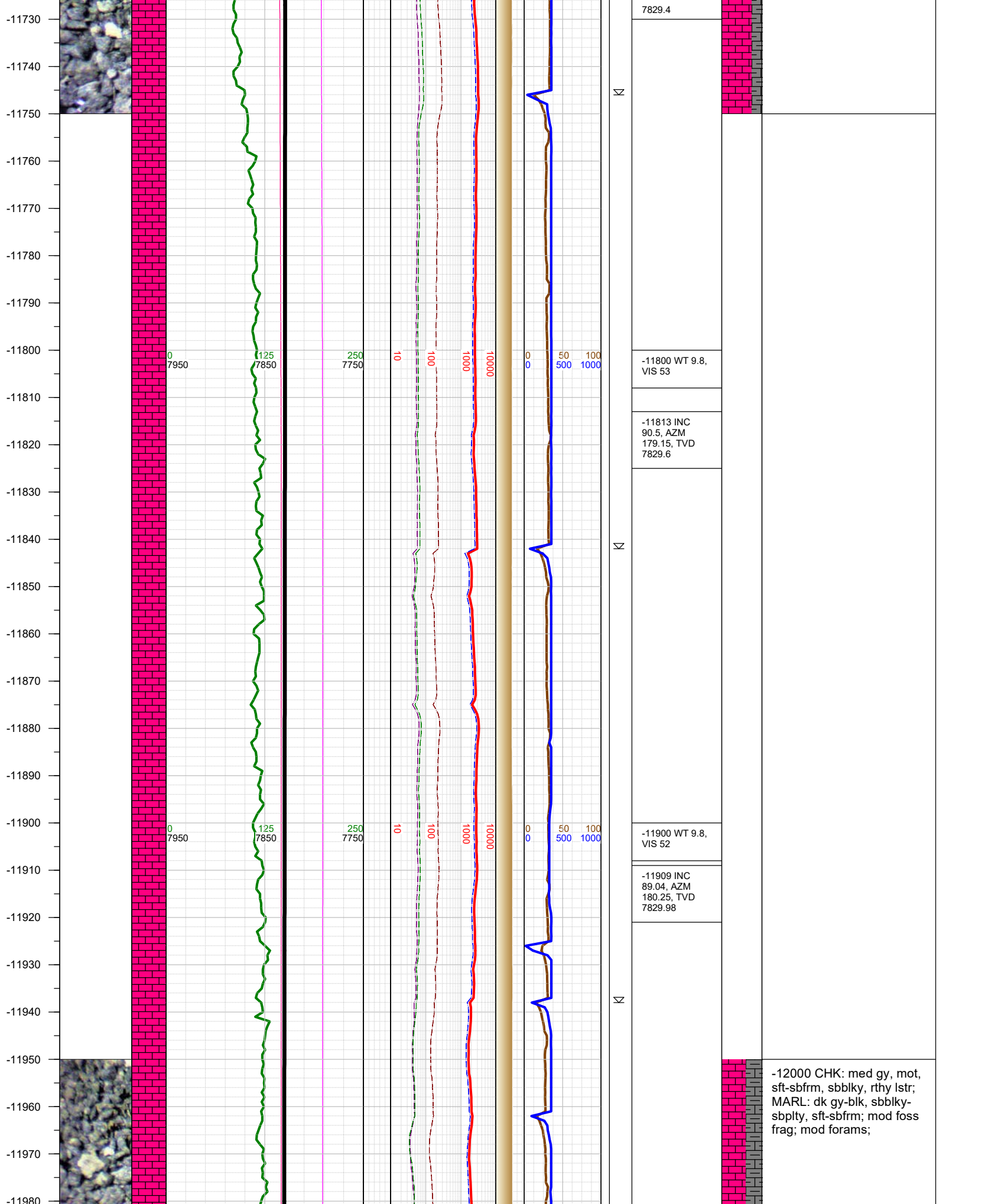
-11623 INC  
89.93, AZM  
179.68, TVD  
7828.73

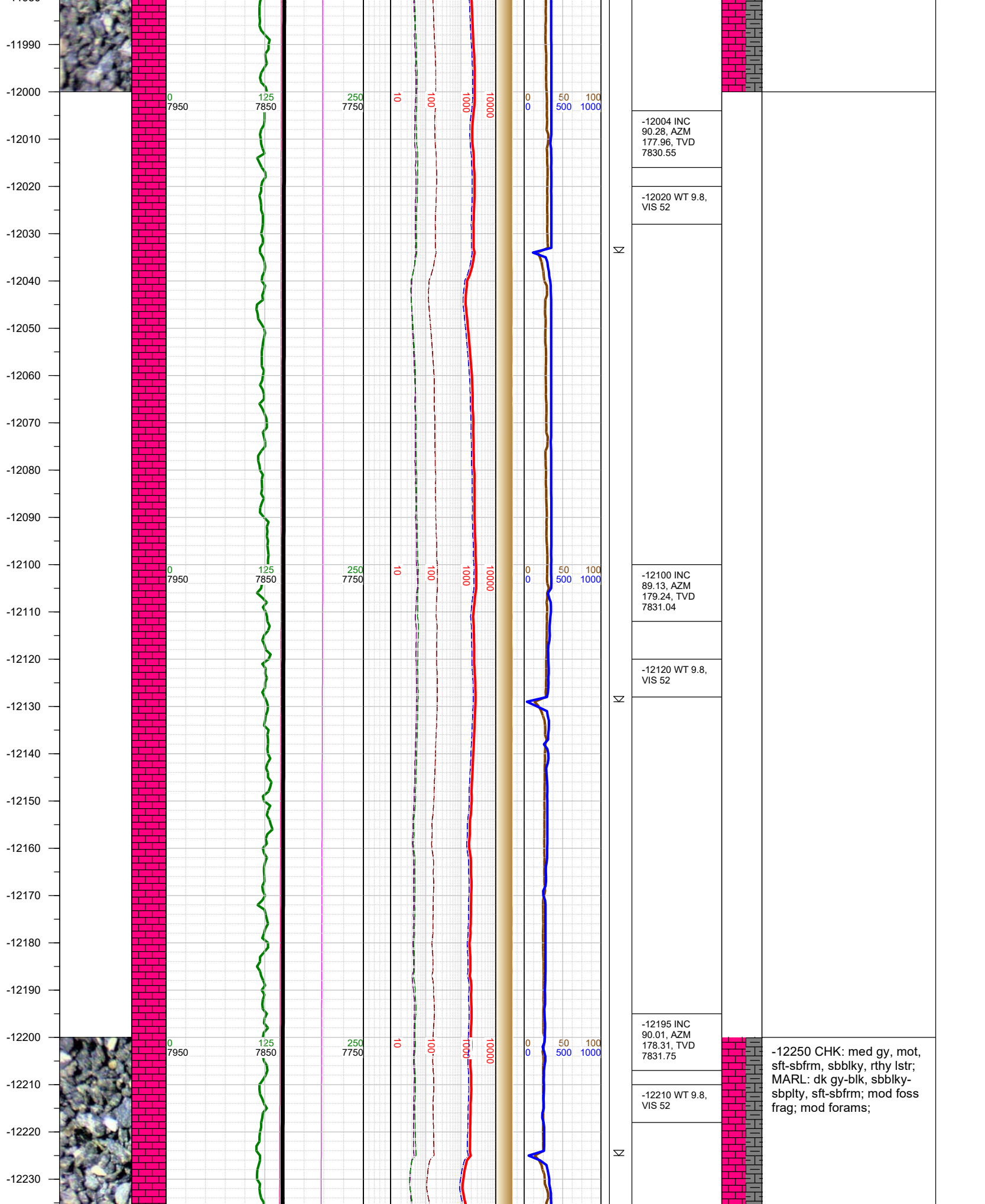
-11700 WT 9.8,  
VIS 53

-11718 INC  
89.26, AZM  
181.62, TVD

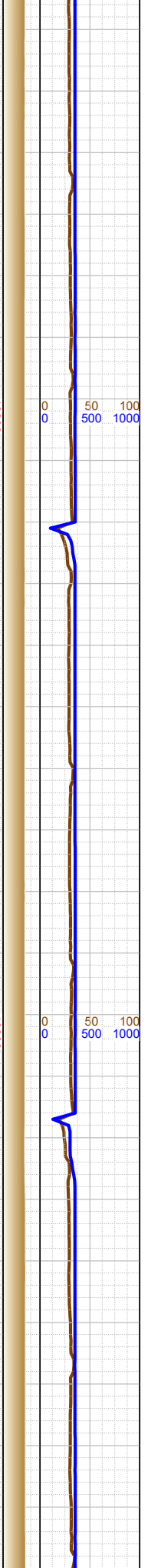
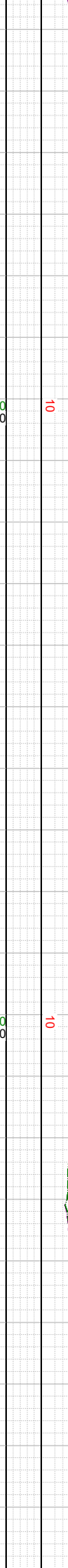
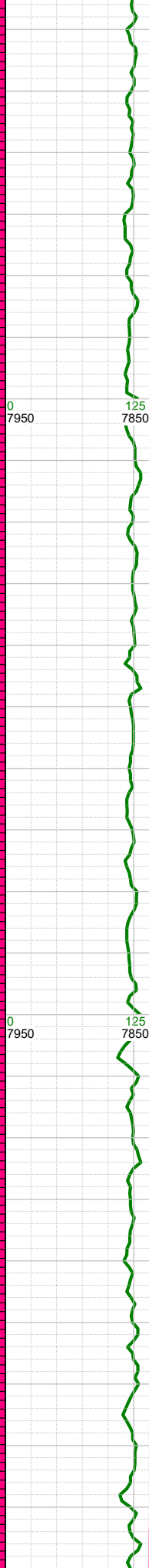
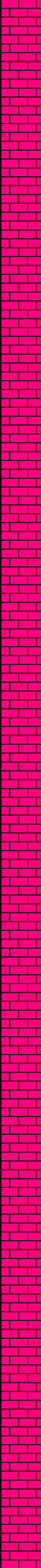
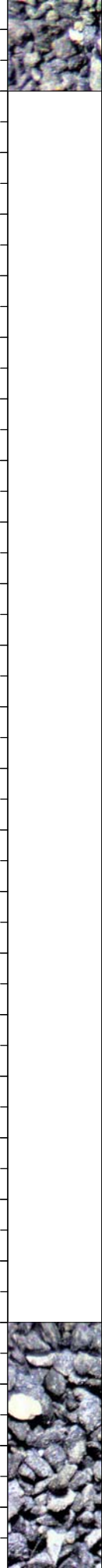


-11750 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbplty, sft-sbfrm; mod foss  
frag; tr forams;





-12240  
-12250  
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-12490



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-12291 INC  
88.95, AZM  
179.33, TVD  
7832.63

-12310 WT 9.8,  
VIS 52

-12386 INC  
90.32, AZM  
178.22, TVD  
7833.23

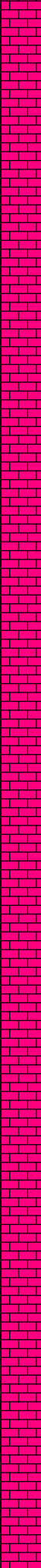
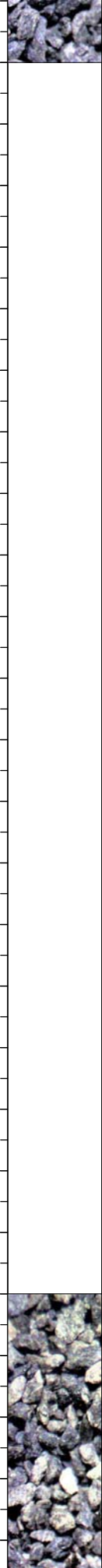
-12400 WT 9.8,  
VIS 52



-12500 CHK: med gy, mot,  
sft-sbfrm, sbbiky, rthy lstr;  
MARL: dk gy-blk, sbbiky-  
sbply, sft-sbfrm; mod foss  
frag; mod forams; tr pyr; tr  
bent;

-12482 INC  
89.17, AZM  
179.63, TVD

-12490  
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125 7850

250 7750

10 100 1000 10000

0 50 100 500 1000

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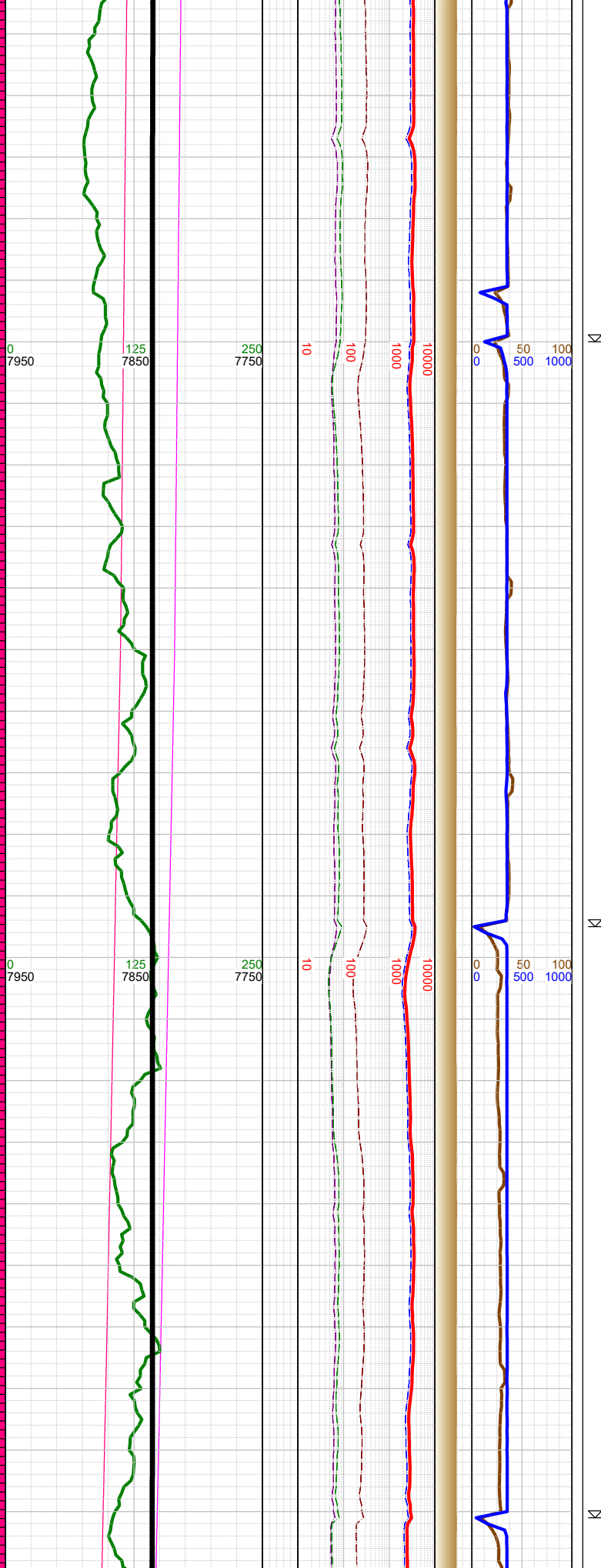
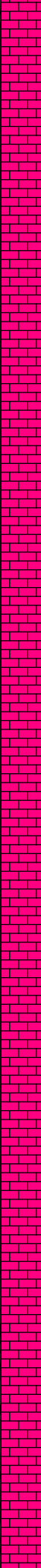
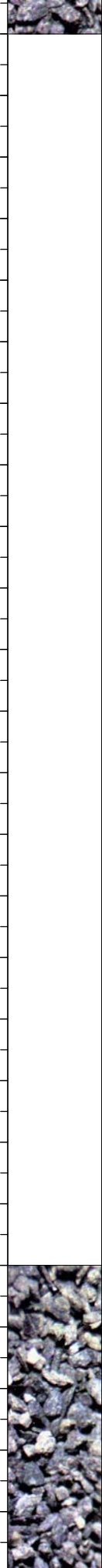
0 50 100 500 1000

0 50 100 500 1000

0 50 100 500 1000

7833.66	
-12500 WT 9.9, VIS 53	
-12537 Fault: 14' down-throw; stayed in B2 Chalk	
-12577 INC 90.54, AZM 178.05, TVD 7833.9	
-12600 WT 9.9, VIS 53	
-12672 INC 89.04, AZM 179.28, TVD 7834.25	
-12700 WT 9.9, VIS 53	-12750 CHK: med gy, mot, sft-sbfrm, sbbkly, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm; tr foss frag; mod forams; tr pyr; tr bent;

-12750  
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-12767 INC  
89.31, AZM  
181.75, TVD  
7835.61

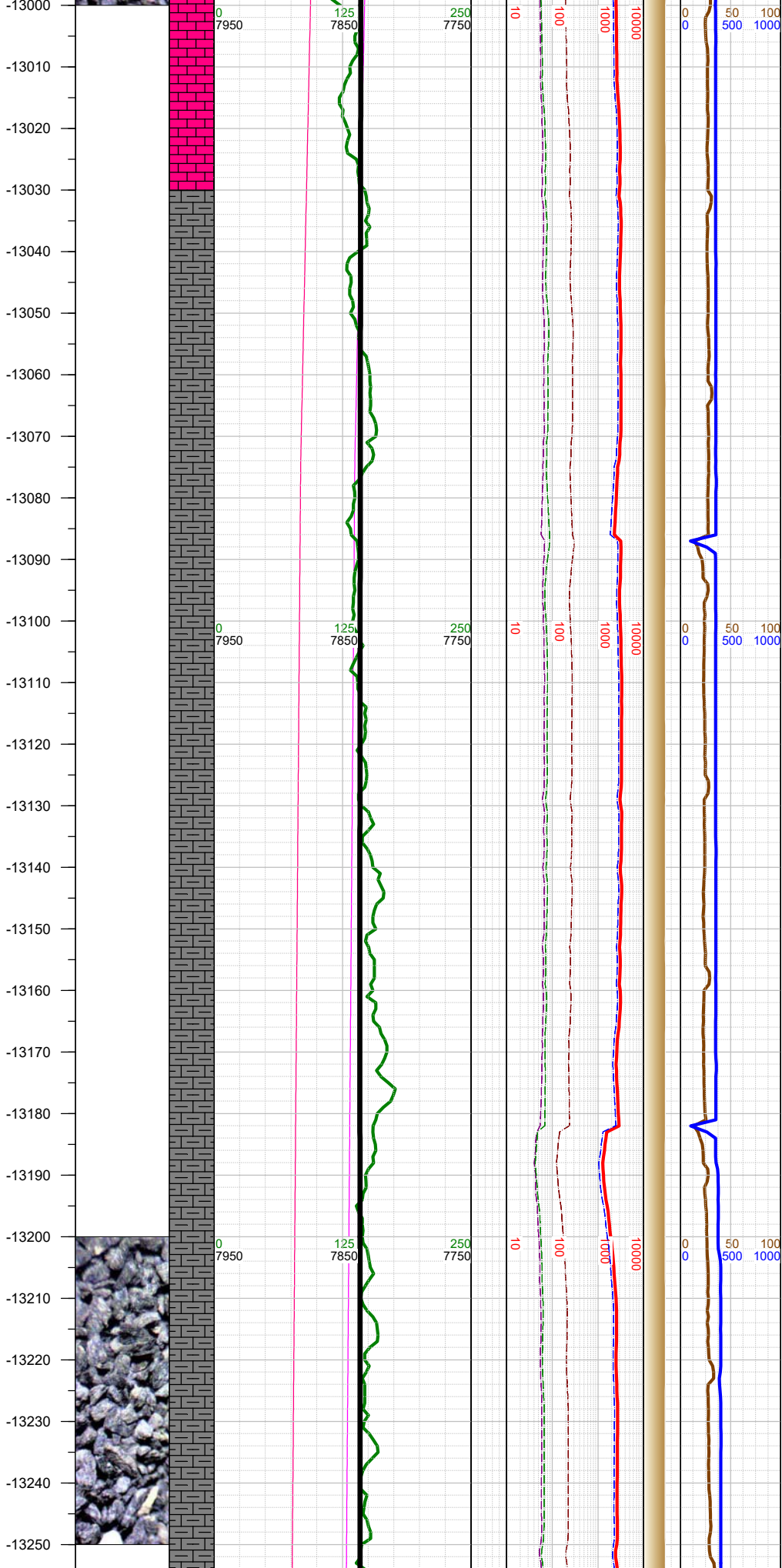
-12800 WT 9.8,  
VIS 52

-12863 INC  
90.54, AZM  
179.28, TVD  
7835.74

-12900 WT 9.8,  
VIS 52

-12958 INC  
89.57, AZM  
179.9, TVD  
7835.65

-13000 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbplty, sft-sbfrm; tr foss  
frag; mod forams; tr pyr; tr  
bent;

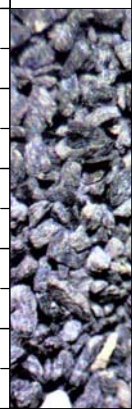


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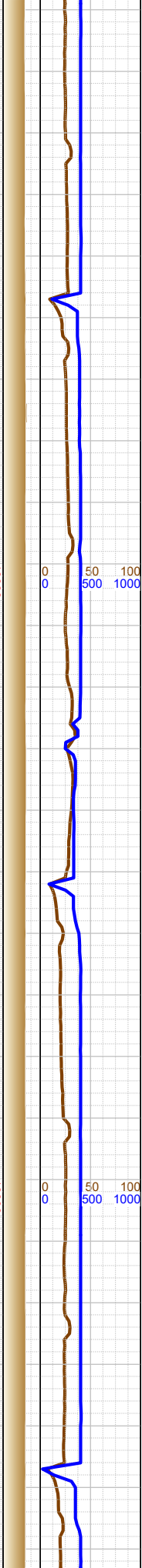
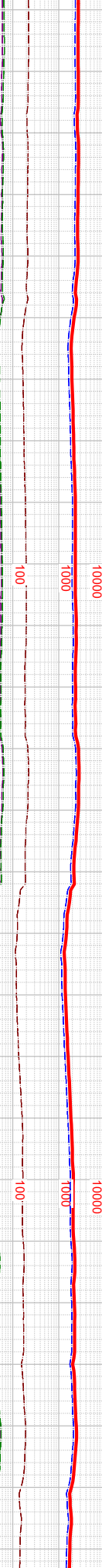
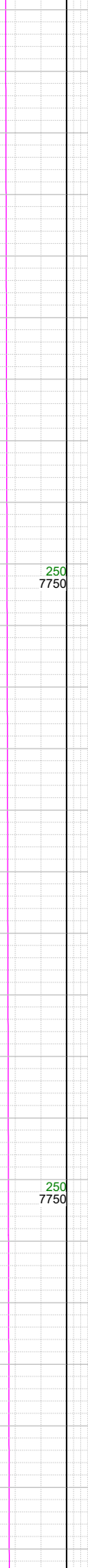
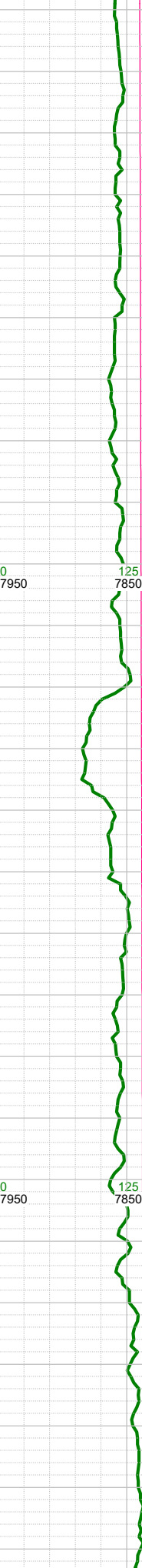
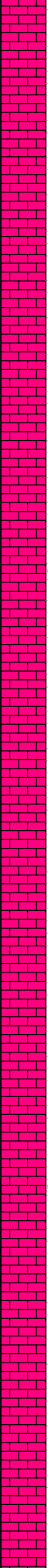
-13000 WT 9.8, VIS 52
-13054 INC 89.79, AZM 178.8, TVD 7836.19
-13100 WT 9.8, VIS 52
-13149 INC 89.66, AZM 179.72, TVD 7836.64
-13200 WT 9.8, VIS 52
-13244 INC 90.59, AZM 177.21, TVD 7836.43

-13250 MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, arg; CHK: med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; tr pyr; tr foss frag;





-13510  
-13520  
-13530  
-13540  
-13550  
-13560  
-13570  
-13580  
-13590  
-13600  
-13610  
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-13740  
-13750  
-13760



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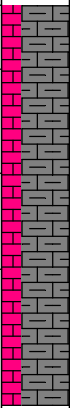
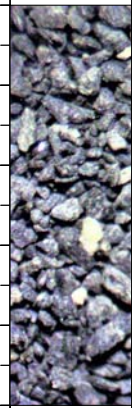
-13531 INC  
89.57, AZM  
179.41, TVD  
7835.73

-13600 WT 9.8,  
VIS 52

-13626 INC  
90.54, AZM  
177.48, TVD  
7835.64

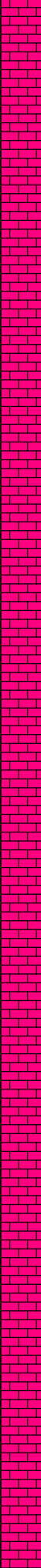
-13700 WT 9.8,  
VIS 52

-13721 INC  
89.62, AZM  
180.65, TVD  
7835.51



-13750 MARL: dk gy-blk,  
sbbkly-sbpity, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbkly, mot, v  
calc, rthy lstr; tr pyr; tr  
foss frag;

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-13790  
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-13980  
-13990  
-14000  
-14010



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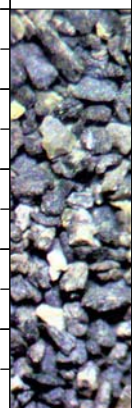
-13800 WT 9.8,  
VIS 52

-13817 INC  
90.77, AZM  
178.71, TVD  
7835.18

-13900 WT 9.8,  
VIS 52

-13913 INC  
89.75, AZM  
180.21, TVD  
7834.75

-14000 MARL: dk gy-blk,  
sbbkly-sbplty, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbkly, mot, v  
calc, rthy lstr; tr pyr; tr  
foss frag;



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7850

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7750

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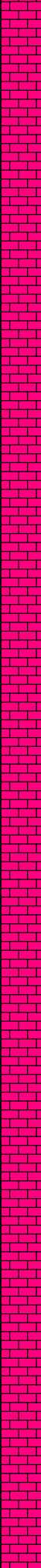
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-14000 WT 9.8,  
VIS 49

-14008 INC  
89.79, AZM  
181.97, TVD  
7835.13



-14280  
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-14300  
-14310  
-14320  
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-14360  
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-14450  
-14460  
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-14480  
-14490  
-14500  
-14510  
-14520



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7950

125  
7850

250  
7750

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7950

125  
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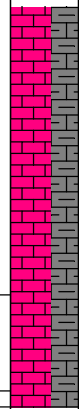
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-14295 INC  
90.77, AZM  
179.19, TVD  
7833.66

-14310 WT 9.8,  
VIS 49

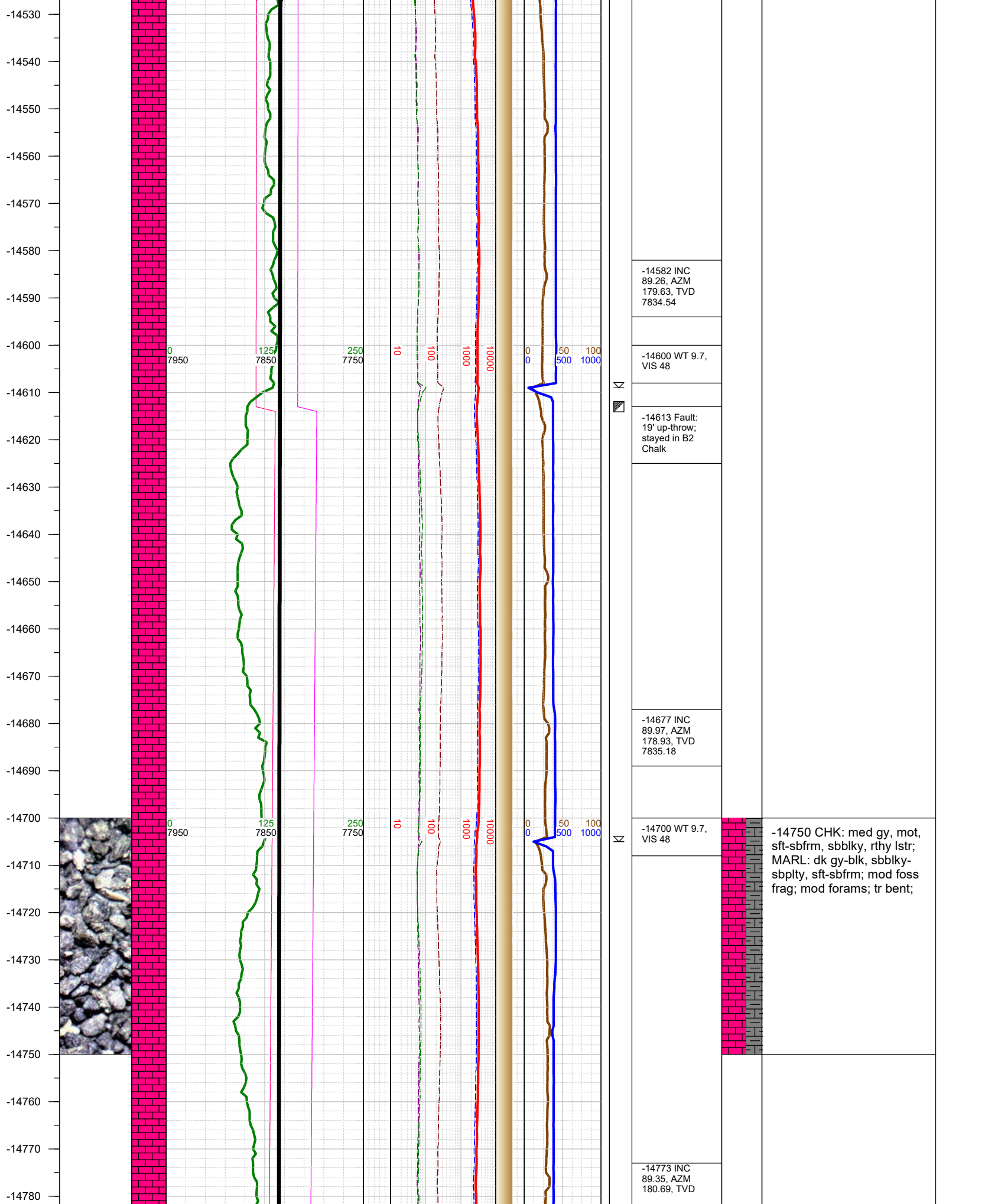
-14390 INC  
89.31, AZM  
180.34, TVD  
7833.59

-14410 WT 9.8,  
VIS 49

-14500 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbplty, sft-sbfrm; tr foss  
frag; mod forams; tr pyr; tr  
bent;

-14486 INC  
90.15, AZM  
180.03, TVD  
7834.05

-14500 WT 9.7,  
VIS 48



-14582 INC  
89.26, AZM  
179.63, TVD  
7834.54

-14600 WT 9.7,  
VIS 48

-14613 Fault:  
19' up-throw;  
stayed in B2  
Chalk

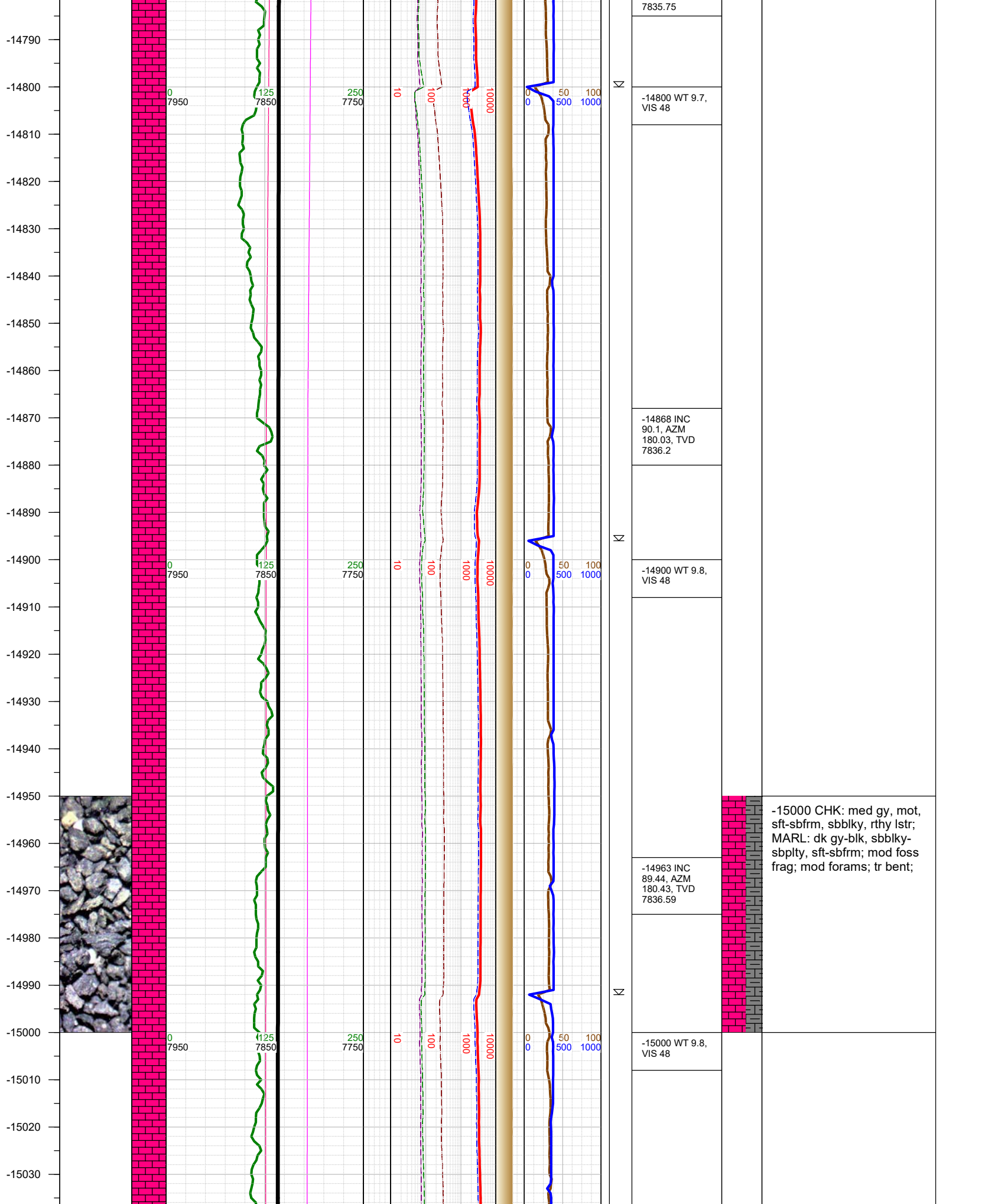
-14677 INC  
89.97, AZM  
178.93, TVD  
7835.18

-14700 WT 9.7,  
VIS 48

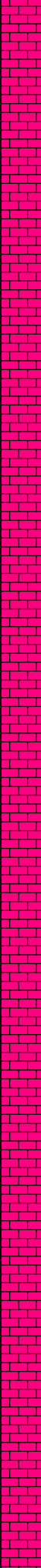
-14750 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbply, sft-sbfrm; mod foss  
frag; mod forams; tr bent;

-14773 INC  
89.35, AZM  
180.69, TVD

0 125 250 10 100 1000 10000 0 50 100  
7950 7850 7750 7850 7750 7850 7750 7850 7750



-15040  
-15050  
-15060  
-15070  
-15080  
-15090  
-15100  
-15110  
-15120  
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-15280  
-15290



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7950

125  
7850

250  
7750

10

100

1000

10000

0 50 100  
0 500 1000



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7950

125  
7850

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7750

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0 500 1000

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-15058 INC  
90.01, AZM  
178.58, TVD  
7837.04

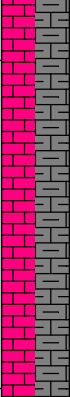
-15100 WT 9.8,  
VIS 48

-15154 INC  
89.17, AZM  
179.85, TVD  
7837.73



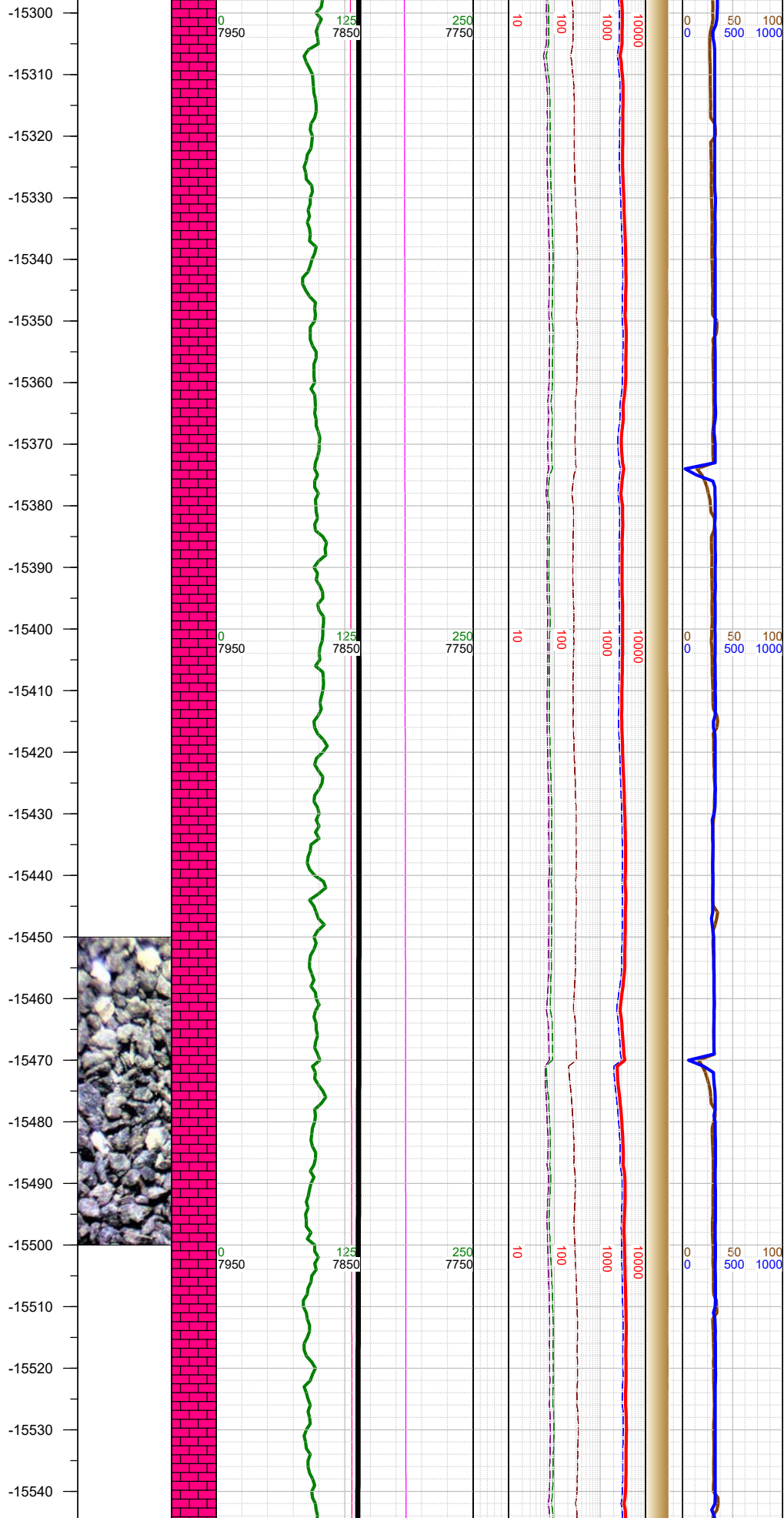
-15175 Fault: 3'  
up-throw; stayed  
in B2 Chalk

-15200 WT 9.8,  
VIS 47



-15250 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbply, sft-sbfrm; tr foss  
frag; mod forams; tr pyr;

-15249 INC  
89.26, AZM  
182.67, TVD  
7839.03



-15300 WT 9.8,  
VIS 47

-15345 INC  
90.5, AZM  
180.96, TVD  
7839.23

-15400 WT 9.8,  
VIS 47

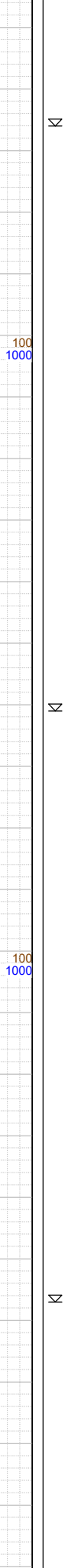
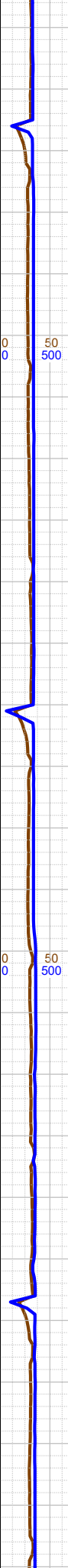
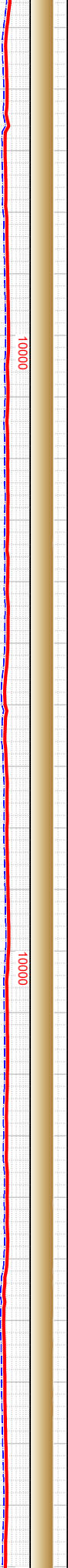
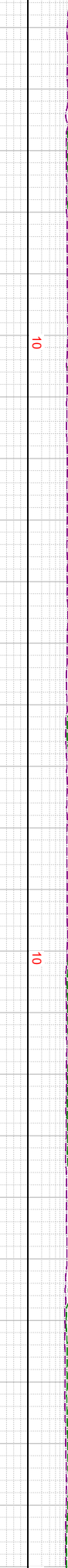
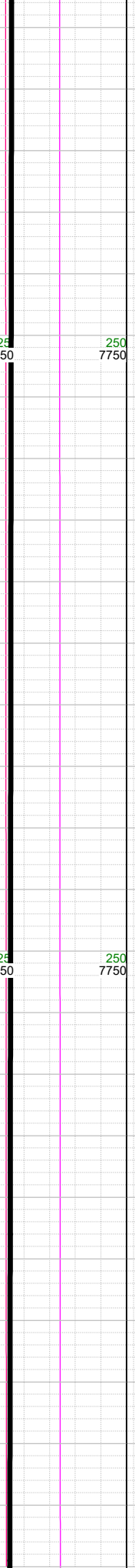
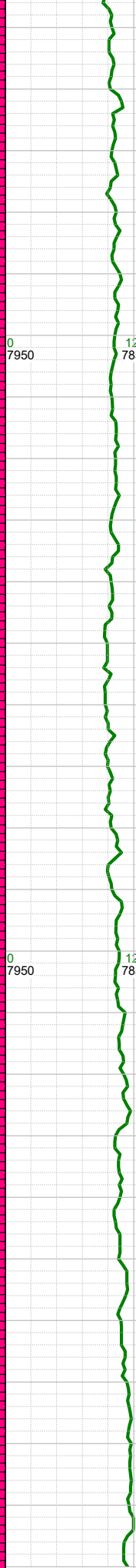
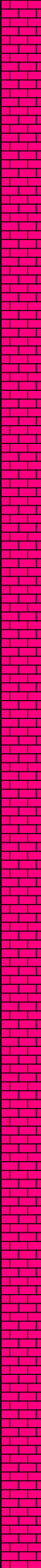
-15441 INC  
89.84, AZM  
179.33, TVD  
7838.95

-15500 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbply, sft-sbfrm; tr foss  
frag; mod forams; tr pyr;

-15500 WT 9.8,  
VIS 47

-15536 INC  
89.13, AZM  
181.62, TVD  
7839.8

-15550  
-15560  
-15570  
-15580  
-15590  
-15600  
-15610  
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-15630  
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-15650  
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-15690  
-15700  
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-15720  
-15730  
-15740  
-15750  
-15760  
-15770  
-15780  
-15790  
-15800



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-15600 WT 9.8,  
VIS 47

-15631 INC  
90.15, AZM  
178.44, TVD  
7840.4

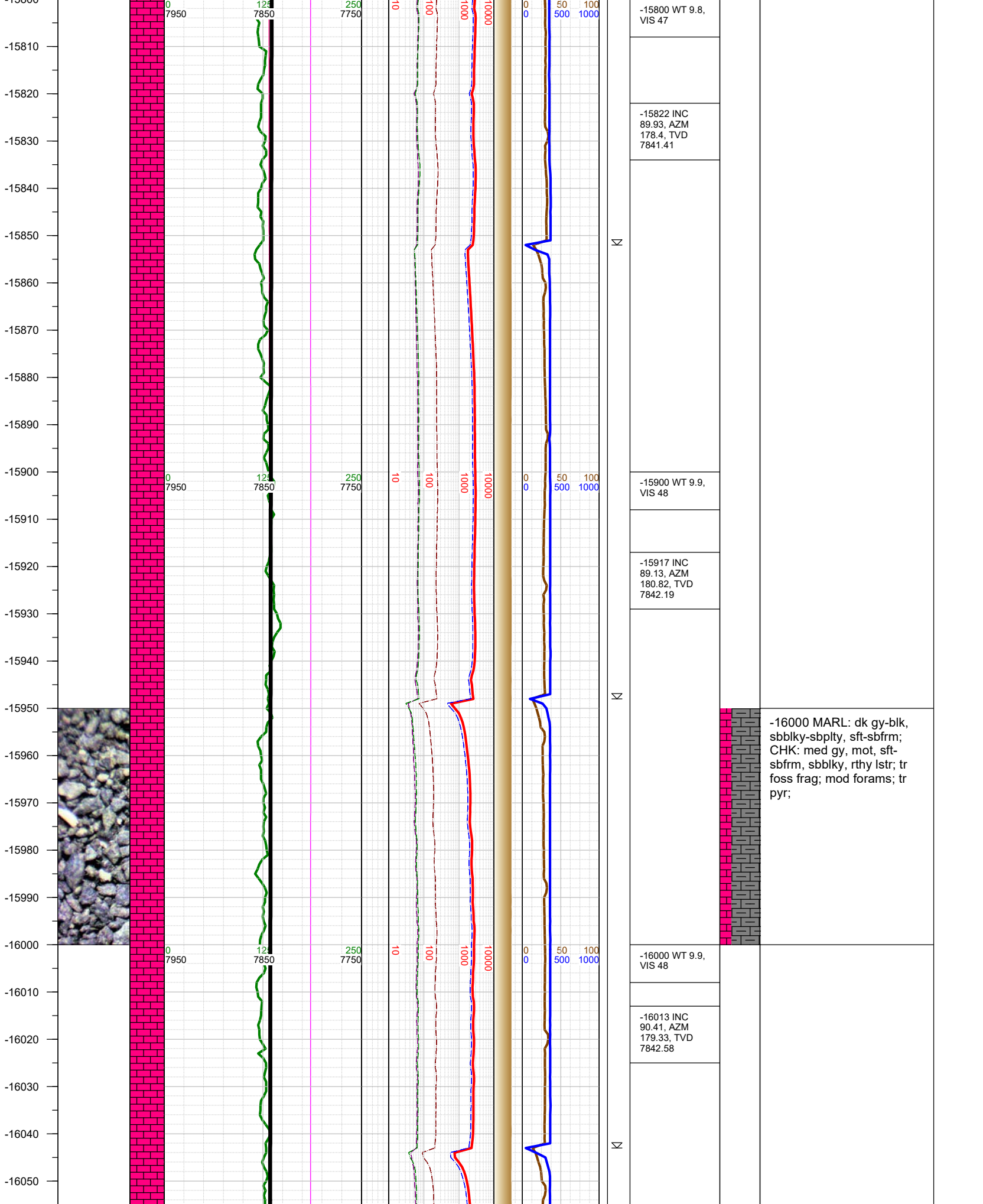
-15700 WT 9.8,  
VIS 47

-15727 INC  
89.35, AZM  
179.9, TVD  
7840.82



-15750 MARL: dk gy-blk, sbbkly-sbpity, sft-sbfrm; CHK: med gy, mot, sft-sbfrm, sbbkly, rthy lstr; tr foss frag; mod forams; tr pyr;





-15800 WT 9.8,  
VIS 47

-15822 INC  
89.93, AZM  
178.4, TVD  
7841.41

-15900 WT 9.9,  
VIS 48

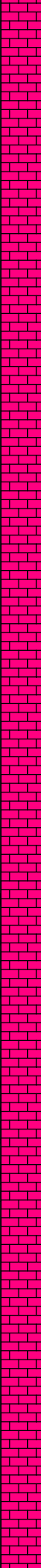
-15917 INC  
89.13, AZM  
180.82, TVD  
7842.19

-16000 MARL: dk gy-blk,  
sbbkly-sbpity, sft-sbfrm;  
CHK: med gy, mot, sft-  
sbfrm, sbbkly, rthy lstr; tr  
foss frag; mod forams; tr  
pyr;

-16000 WT 9.9,  
VIS 48

-16013 INC  
90.41, AZM  
179.33, TVD  
7842.58

-16060  
-16070  
-16080  
-16090  
-16100  
-16110  
-16120  
-16130  
-16140  
-16150  
-16160  
-16170  
-16180  
-16190  
-16200  
-16210  
-16220  
-16230  
-16240  
-16250  
-16260  
-16270  
-16280  
-16290  
-16300



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7850

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7750

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500

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1000

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7950

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7850

250  
7750

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500

100  
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7950

12  
7850

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7750

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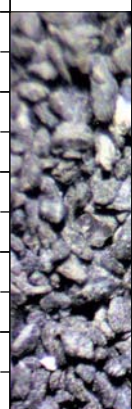
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500

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-16107 INC  
89.13, AZM  
180.65, TVD  
7842.96

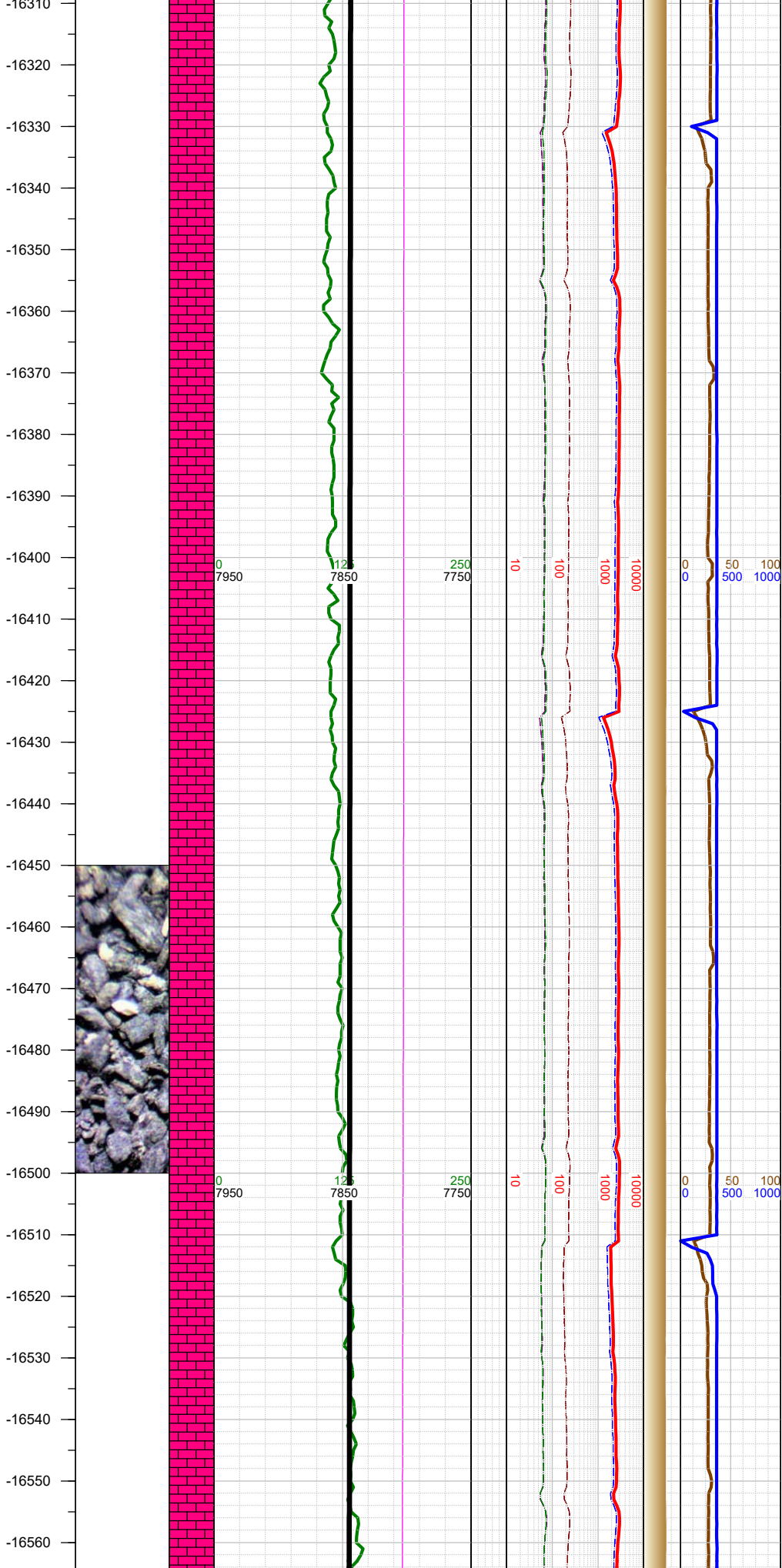
-16120 WT 9.9,  
VIS 48

-16201 INC  
90.41, AZM  
178.84, TVD  
7843.33

-16220 WT 9.9,  
VIS 48

-16295 INC  
89.09, AZM  
180.16, TVD  
7843.74

-16250 MARL: dk gy-blk,  
sbbkly-sbplty, sft-sbfrm;  
CHK: med gy, mot, sft-  
sbfrm, sbbkly, rthy lstr; tr  
foss frag; tr forams; tr pyr;



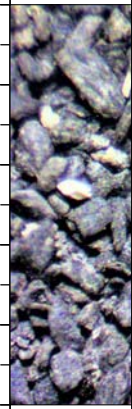
-16310 WT 9.9,  
VIS 48

-16389 INC  
90.32, AZM  
178.58, TVD  
7844.23

-16410 WT 9.9,  
VIS 48

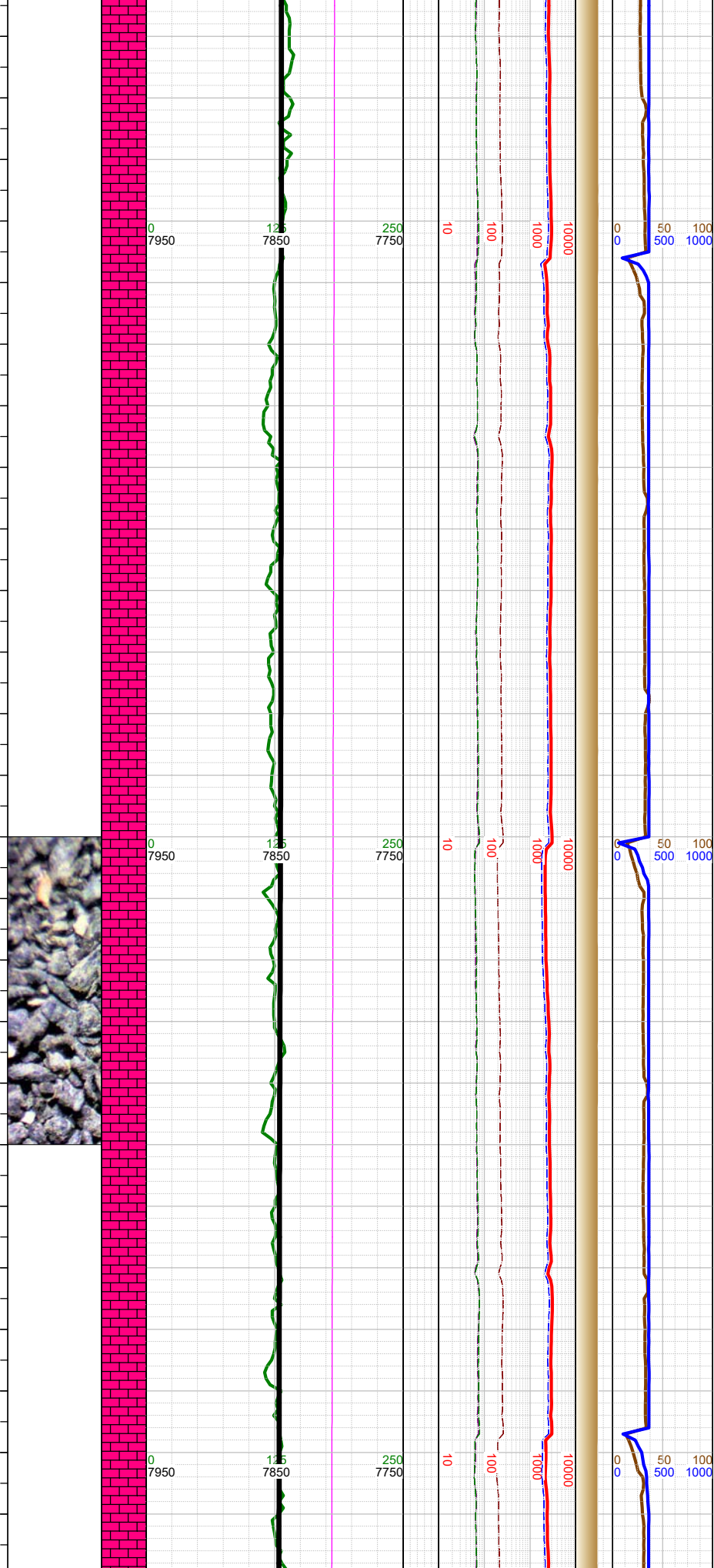
-16483 INC  
89.26, AZM  
180.6, TVD  
7844.57

-16500 WT 9.9,  
VIS 48



-16500 MARL: dk gy-blk,  
sbbly-sbpity, sft-sbfrm;  
CHK: med gy, mot, sft-  
sbfrm, sbbly, rthy lstr; tr  
foss frag; mod forams; mod  
pyr;

-16570  
-16580  
-16590  
-16600  
-16610  
-16620  
-16630  
-16640  
-16650  
-16660  
-16670  
-16680  
-16690  
-16700  
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-16730  
-16740  
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-16760  
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-16800  
-16810



-16577 INC  
90.37, AZM  
179.19, TVD  
7844.88

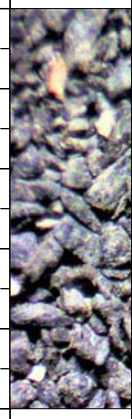
-16600 WT 9.9,  
VIS 48

-16671 INC  
89.17, AZM  
179.85, TVD  
7845.25

-16700 WT 9.9,  
VIS 48

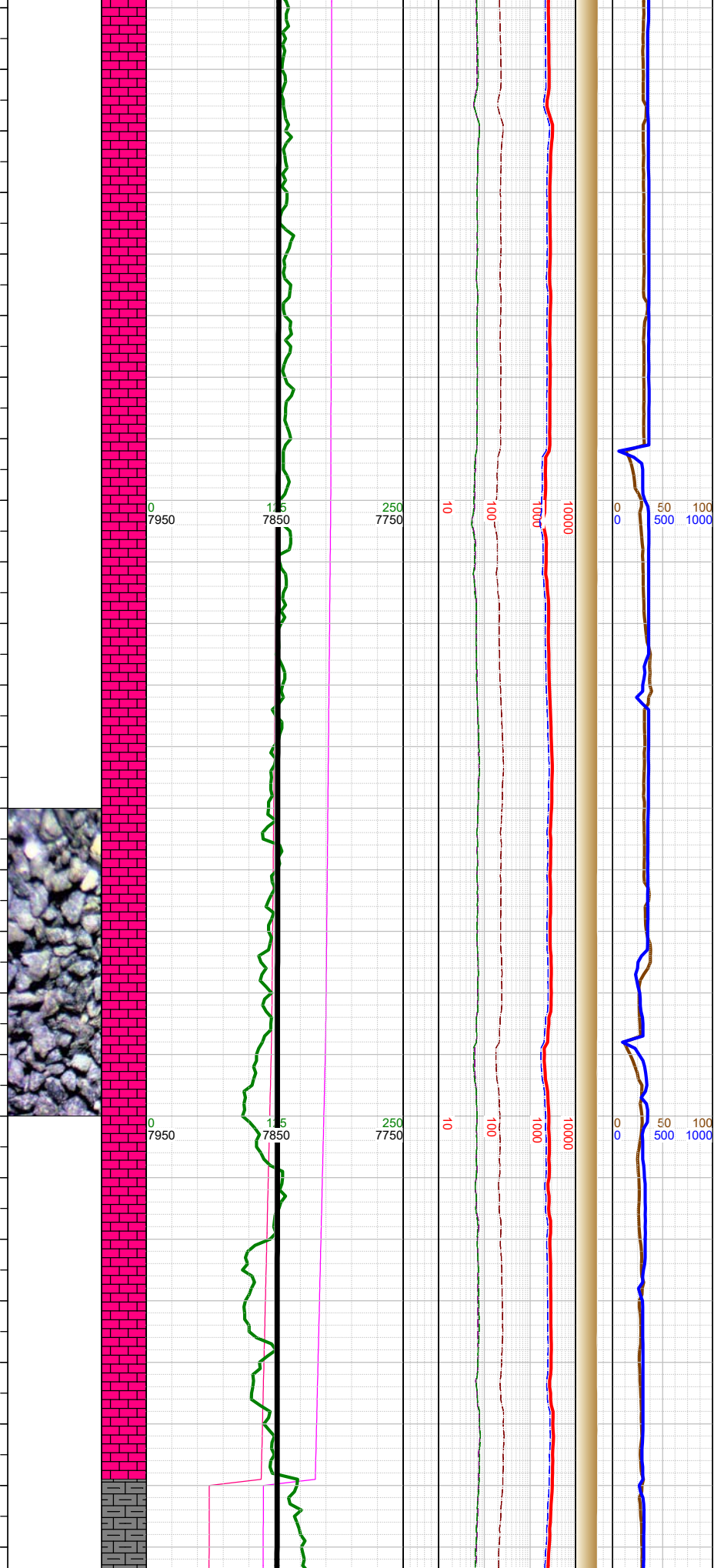
-16765 INC  
89.35, AZM  
179.19, TVD  
7846.47

-16800 WT 9.9,  
VIS 50



-16750 MARL: dk gy-blk, sbbkly-sbpity, sft-sbfrm; CHK: med gy, mot, sft-sbfrm, sbbkly, rthy lstr; tr foss frag; mod forams; mod pyr;

-16820  
-16830  
-16840  
-16850  
-16860  
-16870  
-16880  
-16890  
-16900  
-16910  
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-16980  
-16990  
-17000  
-17010  
-17020  
-17030  
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-17050  
-17060  
-17070



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-16859 INC  
90.01, AZM  
177.87, TVD  
7846.99

-16900 WT 9.9,  
VIS 50

-16954 INC  
89.04, AZM  
179.5, TVD  
7847.78

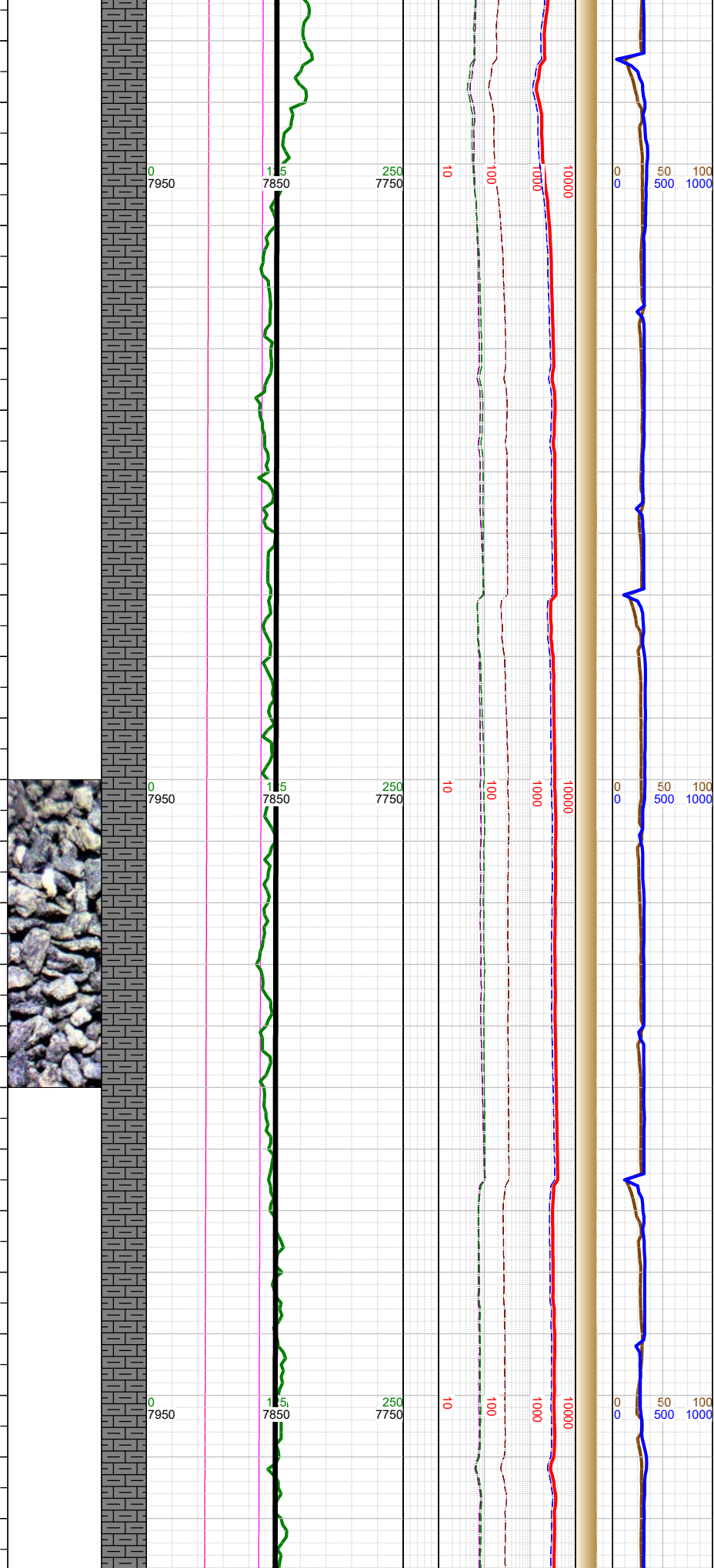
-17000 WT 9.9,  
VIS 50

-17048 INC  
90.5, AZM  
178.09, TVD  
7848.16

▣  
-17059 Fault:  
40' down-throw;  
went from B2  
Chalk to A Marl

-17000 MARL: dk gy-blk,  
sbbkly-sbplty, sft-sbfrm;  
CHK: med gy, mot, sft-  
sbfrm, sbbkly, rthy lstr; tr  
foss frag; mod forams; mod  
pyr;

-17080  
-17090  
-17100  
-17110  
-17120  
-17130  
-17140  
-17150  
-17160  
-17170  
-17180  
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-17210  
-17220  
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-17240  
-17250  
-17260  
-17270  
-17280  
-17290  
-17300  
-17310  
-17320



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N  
N

-17100 WT 9.9,  
VIS 50

-17142 INC 89,  
AZM 179.94,  
TVD 7848.57

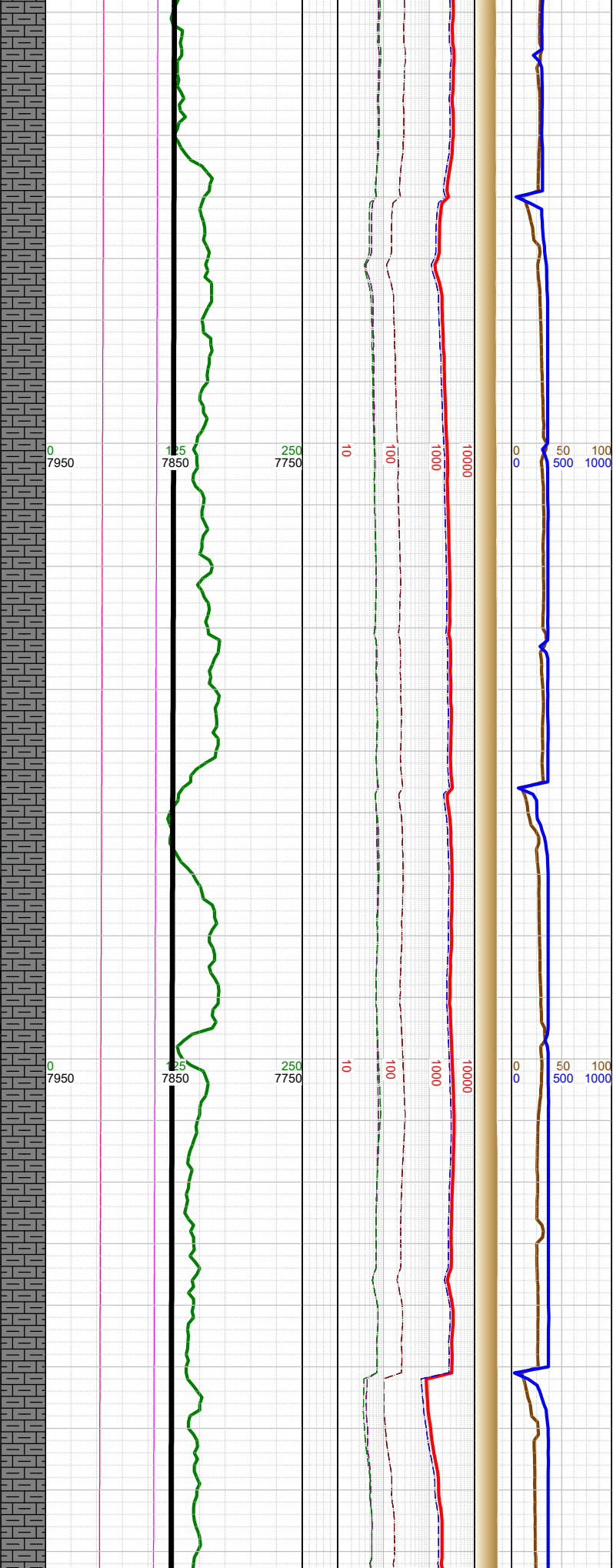
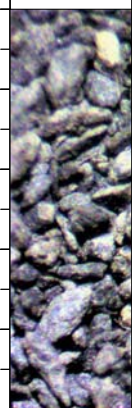
-17200 WT 9.9,  
VIS 50

-17250 MARL: dk gy-blk,  
sbbkly-sbpity, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbkly, mot, v  
calc, rthy lstr; tr foss frags;  
tr bent;

-17237 INC  
90.01, AZM  
179.9, TVD  
7849.39

-17300 WT 9.9,  
VIS 50

-17330  
-17340  
-17350  
-17360  
-17370  
-17380  
-17390  
-17400  
-17410  
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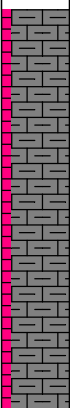


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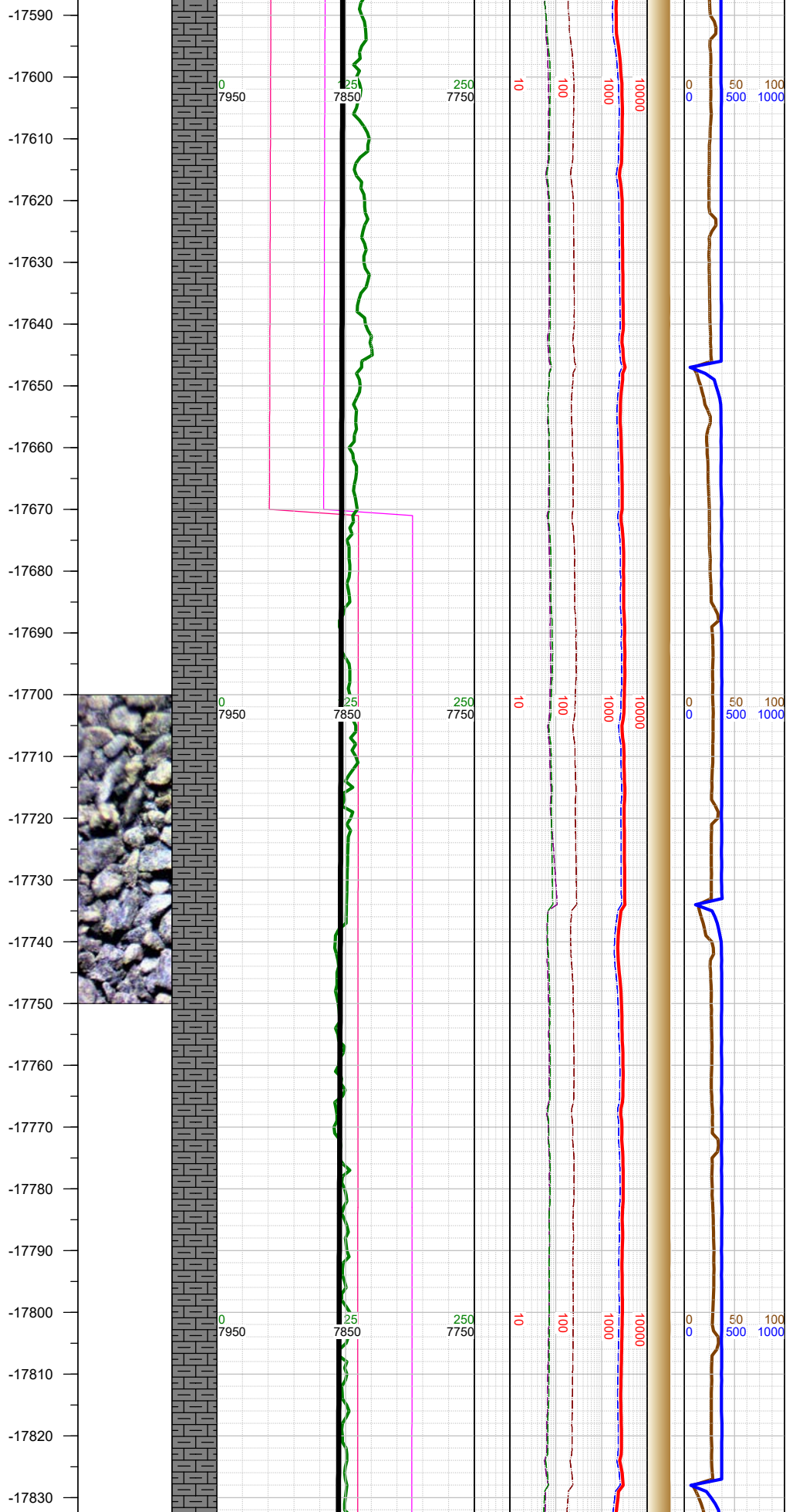
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-17331 INC 89.57, AZM 179.85, TVD 7849.73
-17400 WT 9.9, VIS 50
-17425 INC 89.48, AZM 178.66, TVD 7850.51
-17500 WT 9.9, VIS 50
-17519 INC 89.04, AZM 181.26, TVD 7851.73



-17500 MARL: dk gy-blk, sbbkly-sbpity, sft-sbfrm, mod calc, arg; CHK: med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; tr foss frags; tr bent; tr pyr;



-17600 WT 9.9,  
VIS 50

-17612 INC  
90.01, AZM  
178.89, TVD  
7852.5

-17670 Fault:  
69' up-throw;  
went from A  
Marl to B Marl

-17706 INC  
88.56, AZM  
180.03, TVD  
7853.67

-17720 WT 9.9,  
VIS 50

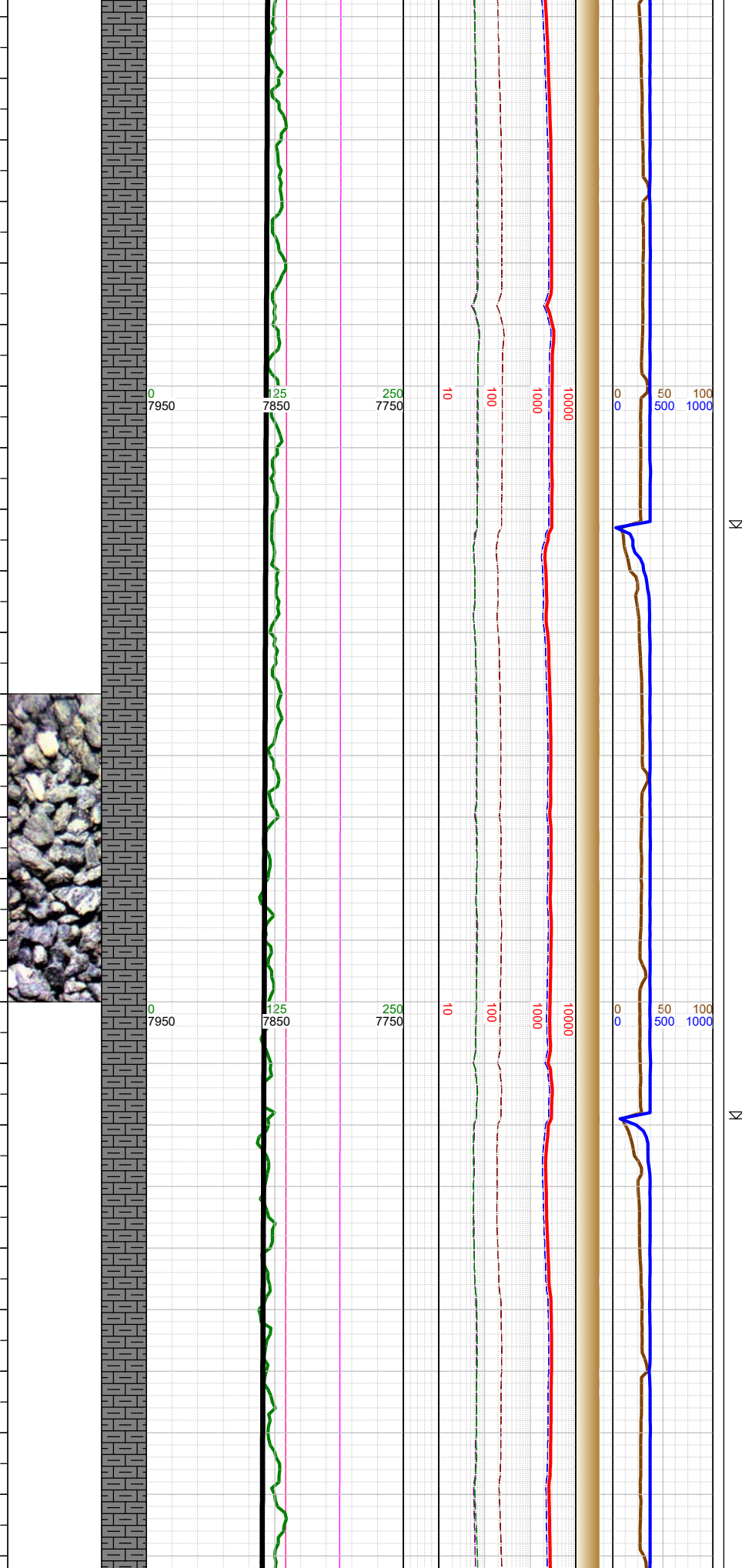
-17750 MARL: dk gy-blk,  
sbbkly-sbplty, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbkly, mot, v  
calc, rthy lstr; tr foss frags;  
tr bent; tr pyr;

-17800 INC  
89.7, AZM  
179.15, TVD  
7855.1

-17820 WT 9.9,  
VIS 50



-17840  
-17850  
-17860  
-17870  
-17880  
-17890  
-17900  
-17910  
-17920  
-17930  
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-17950  
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-17970  
-17980  
-17990  
-18000  
-18010  
-18020  
-18030  
-18040  
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-18070  
-18080  
-18090



-17893 INC  
88.42, AZM  
179.68, TVD  
7856.62

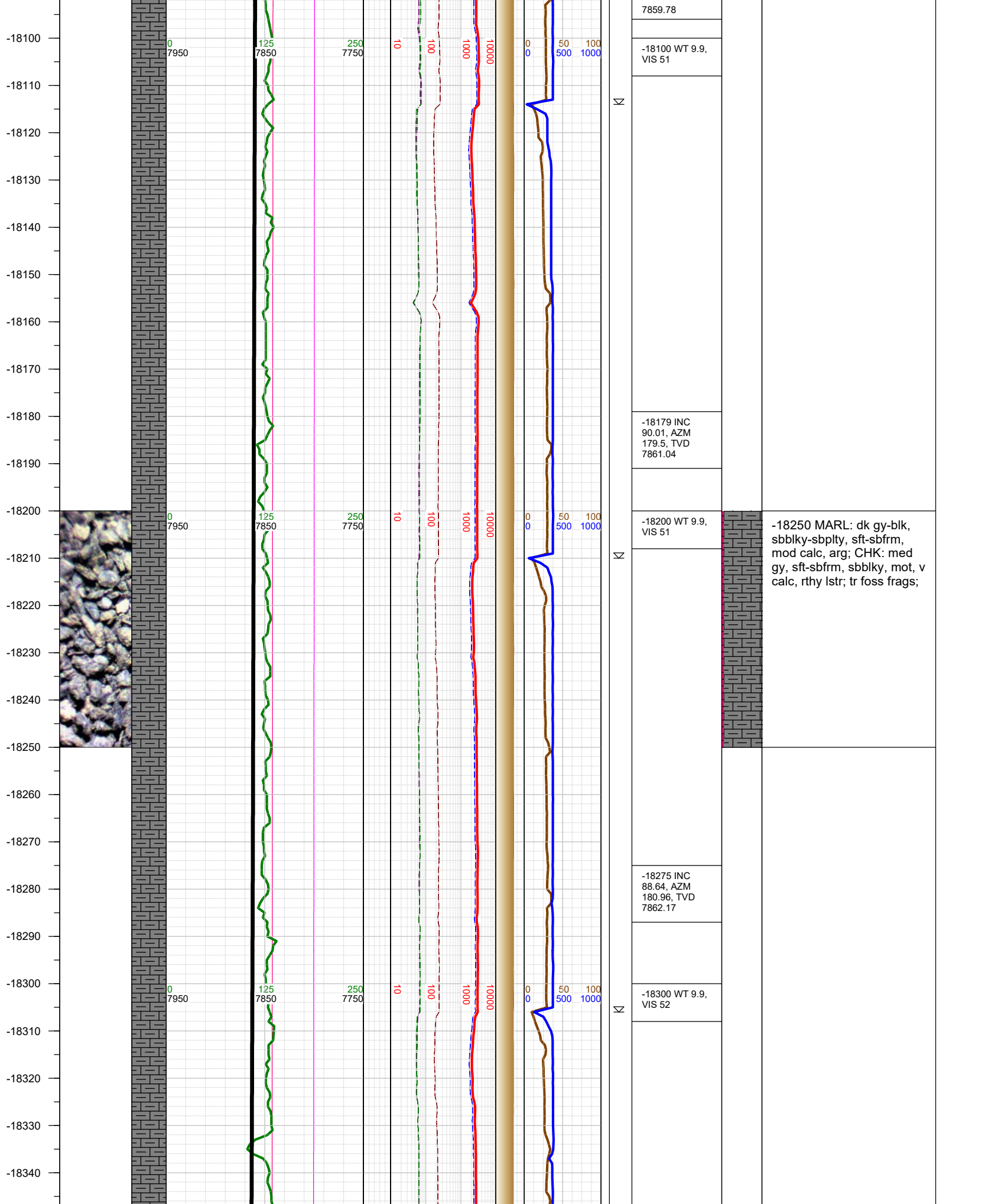
-17910 WT 9.9,  
VIS 50

-17989 INC  
89.66, AZM  
178.71, TVD  
7858.23

-18010 WT 9.9,  
VIS 50

-18084 INC  
88.47, AZM  
180.96, TVD

-18000 MARL: dk gy-blk,  
sbbkly-sbplty, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbkly, mot, v  
calc, rthy lstr; tr foss frags;



7859.78

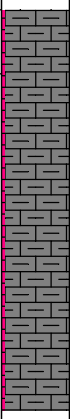
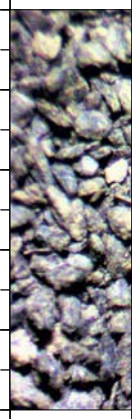
-18100 WT 9.9, VIS 51

-18179 INC 90.01, AZM 179.5, TVD 7861.04

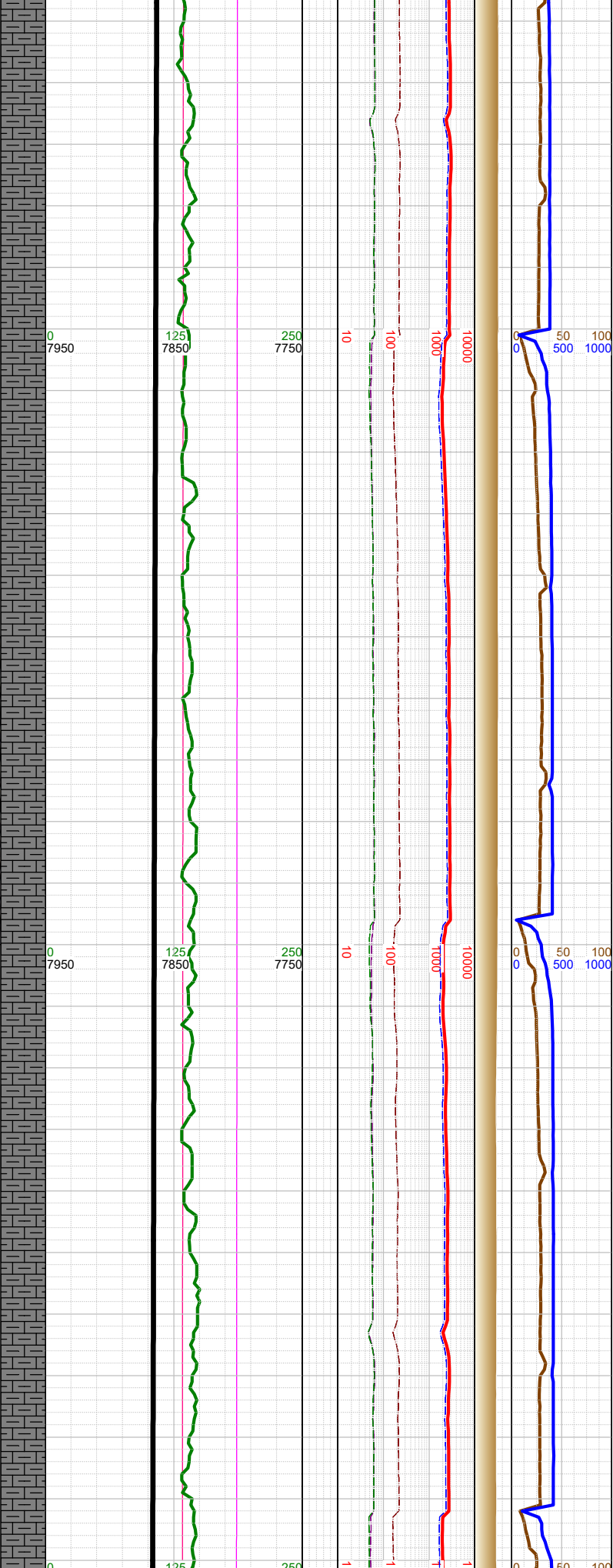
-18250 MARL: dk gy-blk, sbbkly-sbpity, sft-sbfrm, mod calc, arg; CHK: med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; tr foss frags;

-18275 INC 88.64, AZM 180.96, TVD 7862.17

-18300 WT 9.9, VIS 52



-18350  
-18360  
-18370  
-18380  
-18390  
-18400  
-18410  
-18420  
-18430  
-18440  
-18450  
-18460  
-18470  
-18480  
-18490  
-18500  
-18510  
-18520  
-18530  
-18540  
-18550  
-18560  
-18570  
-18580  
-18590  
-18600



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W  
W

-18371 INC  
89.4, AZM  
179.59, TVD  
7863.81

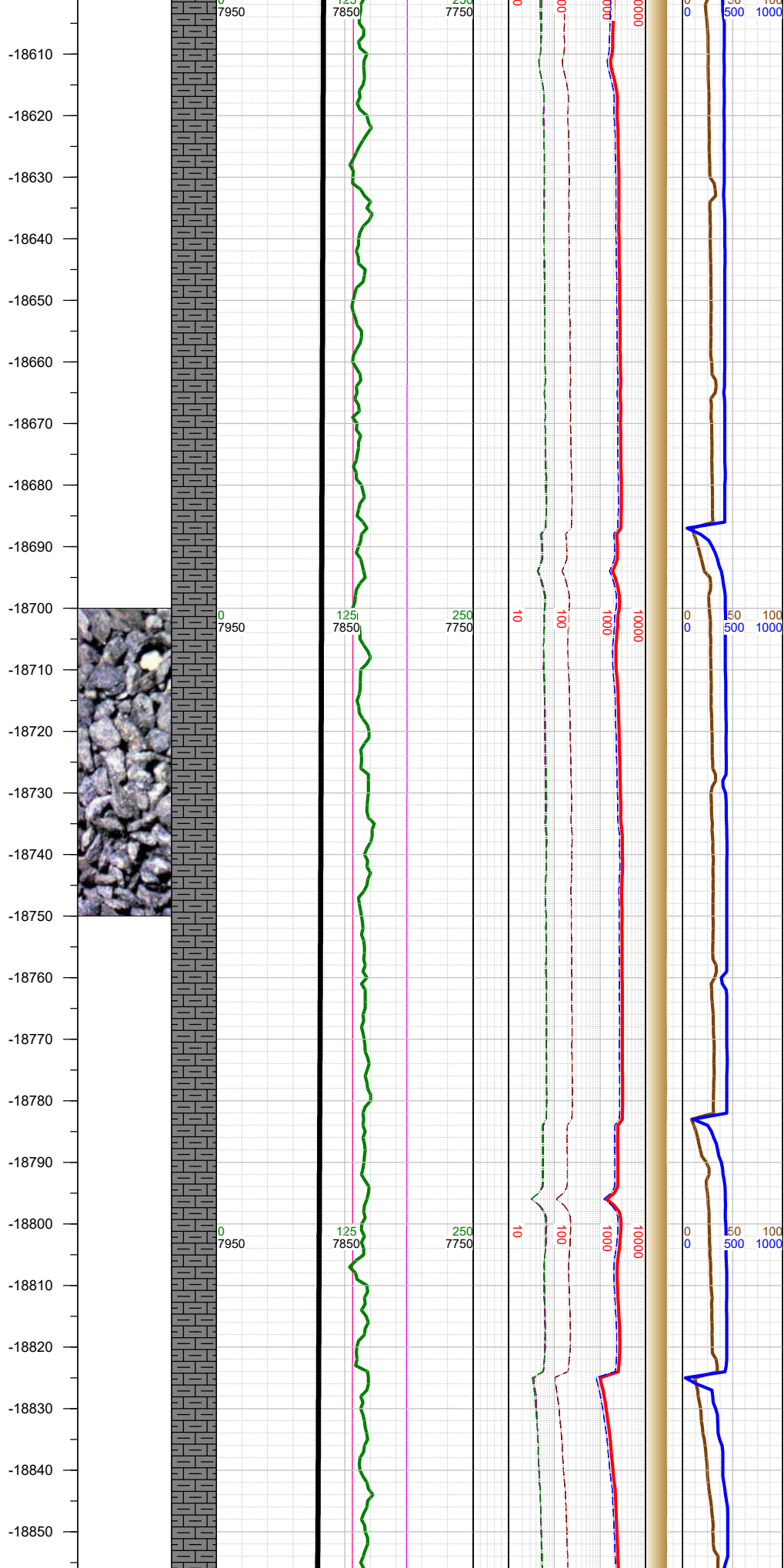
-18400 WT 9.9,  
VIS 52

-18466 INC  
89.04, AZM  
180.82, TVD  
7865.11

-18500 WT 9.9,  
VIS 52

-18562 INC  
89.84, AZM  
179.11, TVD  
7866.05

-18500 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbly, mot, v  
calc, rthy lstr; tr bent wi  
dissem pyr; tr fos frags;



-18600 WT 9.9,  
VIS 52

-18658 INC  
88.51, AZM  
180.52, TVD  
7867.43

-18700 WT 9.9,  
VIS 52

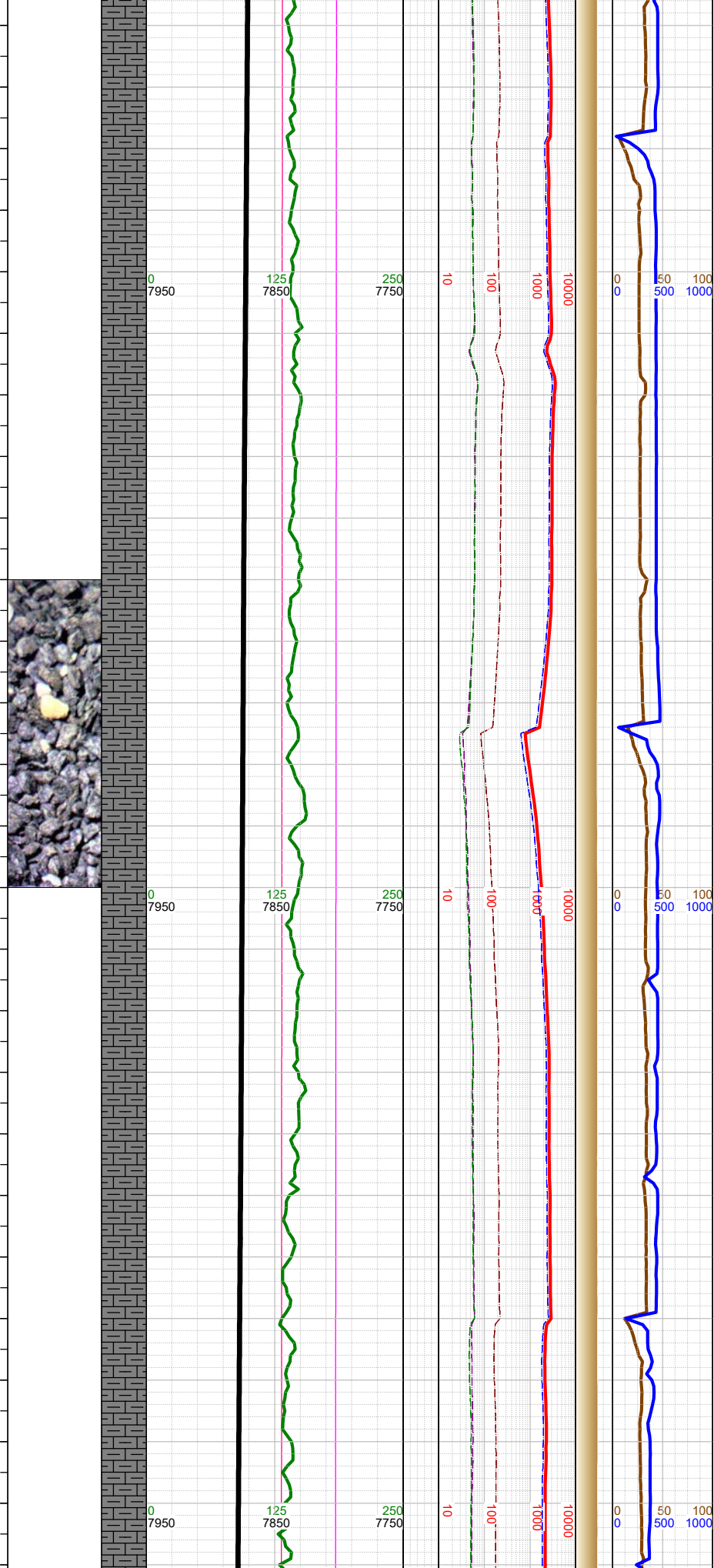
-18750 MARL: dk gy-blk,  
sbbkly-sbply, sft-sbfrm,  
mod calc; tr bent wi disse  
pyr; tr fos frags;

-18753 INC  
89.7, AZM  
179.68, TVD  
7868.91

-18800 WT 9.8,  
VIS 52

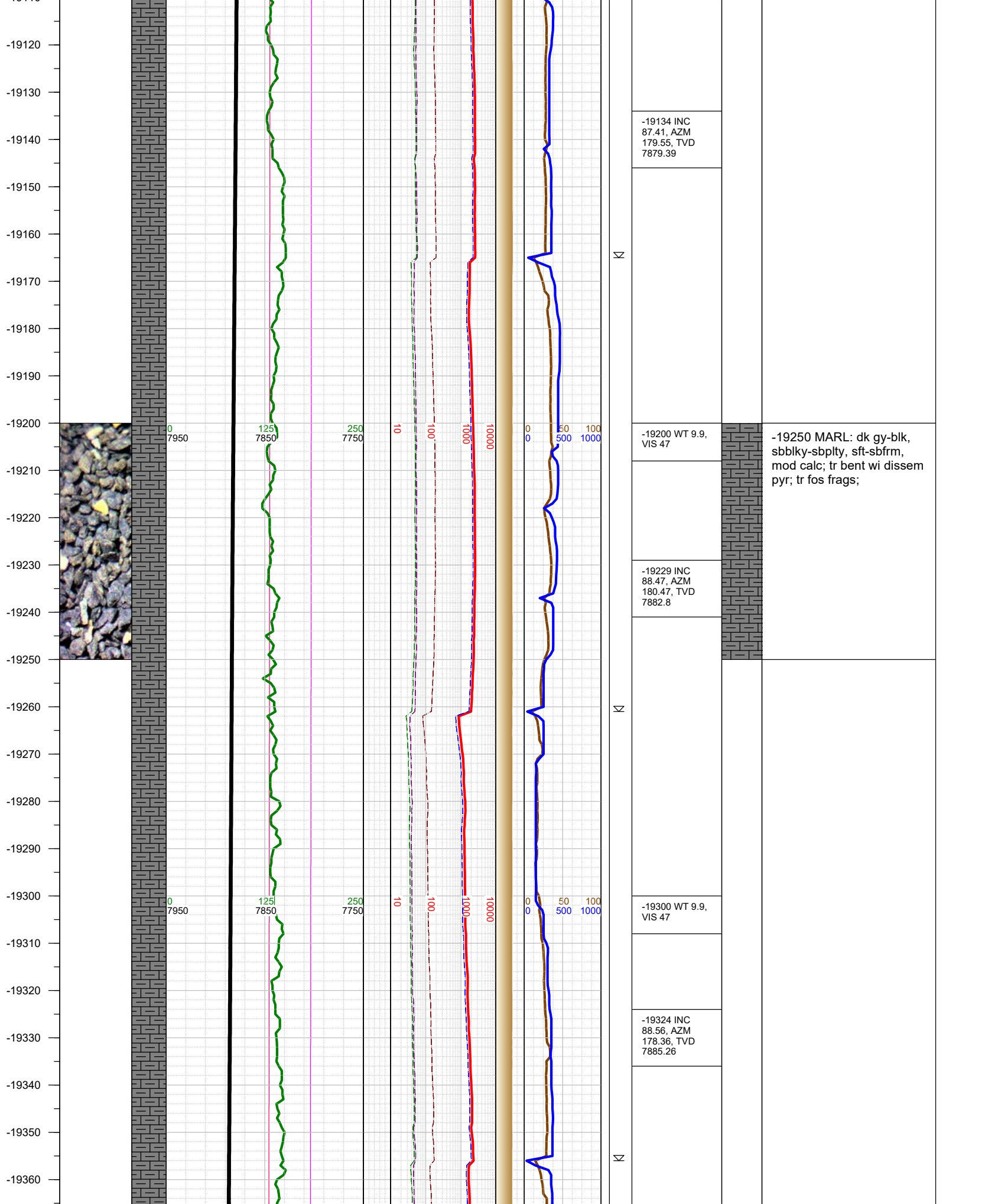
-18849 INC  
87.94, AZM  
179.59, TVD

-18860  
-18870  
-18880  
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-18900  
-18910  
-18920  
-18930  
-18940  
-18950  
-18960  
-18970  
-18980  
-18990  
-19000  
-19010  
-19020  
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-19040  
-19050  
-19060  
-19070  
-19080  
-19090  
-19100  
-19110

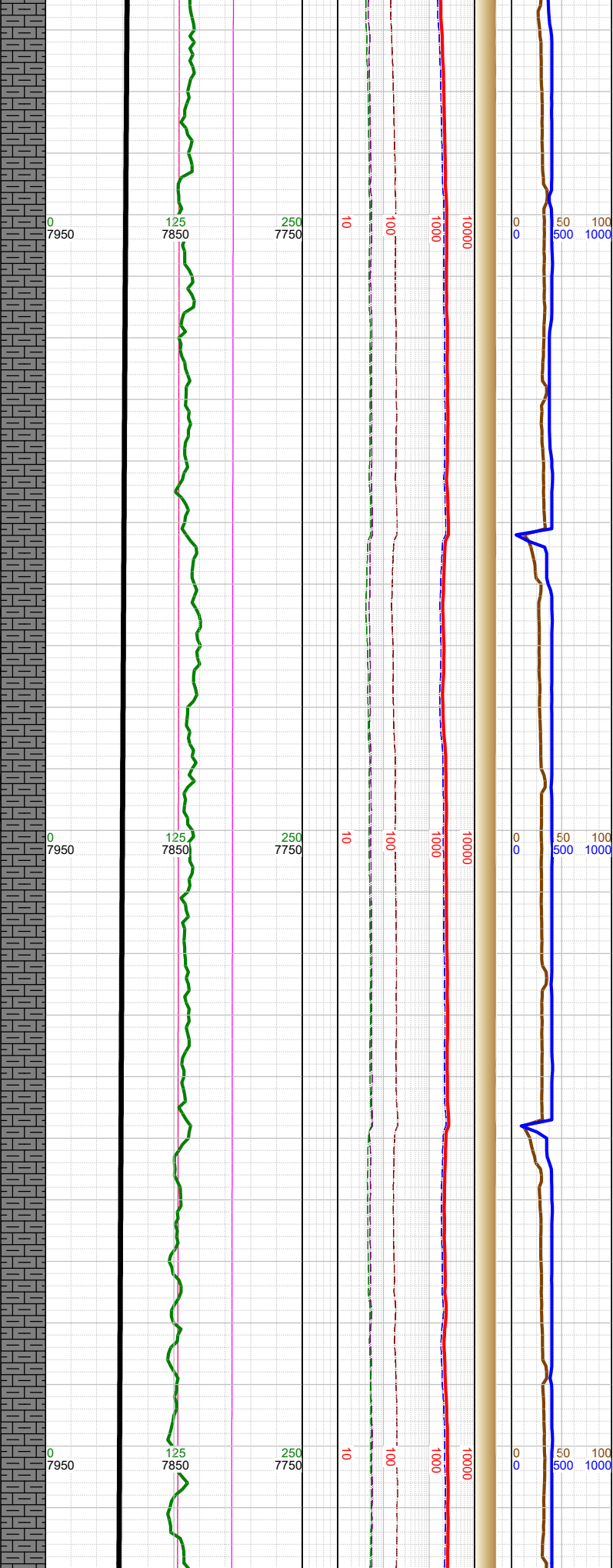
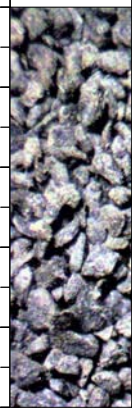


7870.89  
-18900 WT 9.9, VIS 47  
-18944 INC 88.25, AZM 180.34, TVD 7874.05  
-19000 WT 9.9, VIS 47  
-19039 INC 88.95, AZM 177.65, TVD 7876.37  
-19100 WT 9.9, VIS 47

-19000 MARL: dk gy-blk, sbbkly-sbpity, sft-sbfrm, mod calc; tr bent wi dissem pyr; tr fos frags;



-19370  
-19380  
-19390  
-19400  
-19410  
-19420  
-19430  
-19440  
-19450  
-19460  
-19470  
-19480  
-19490  
-19500  
-19510  
-19520  
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-19540  
-19550  
-19560  
-19570  
-19580  
-19590  
-19600  
-19610  
-19620



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-19400 WT 9.9,  
VIS 47

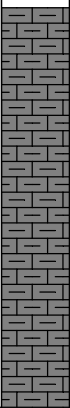
-19420 INC  
87.98, AZM  
181.35, TVD  
7888.16

-19500 WT 9.9,  
VIS 47

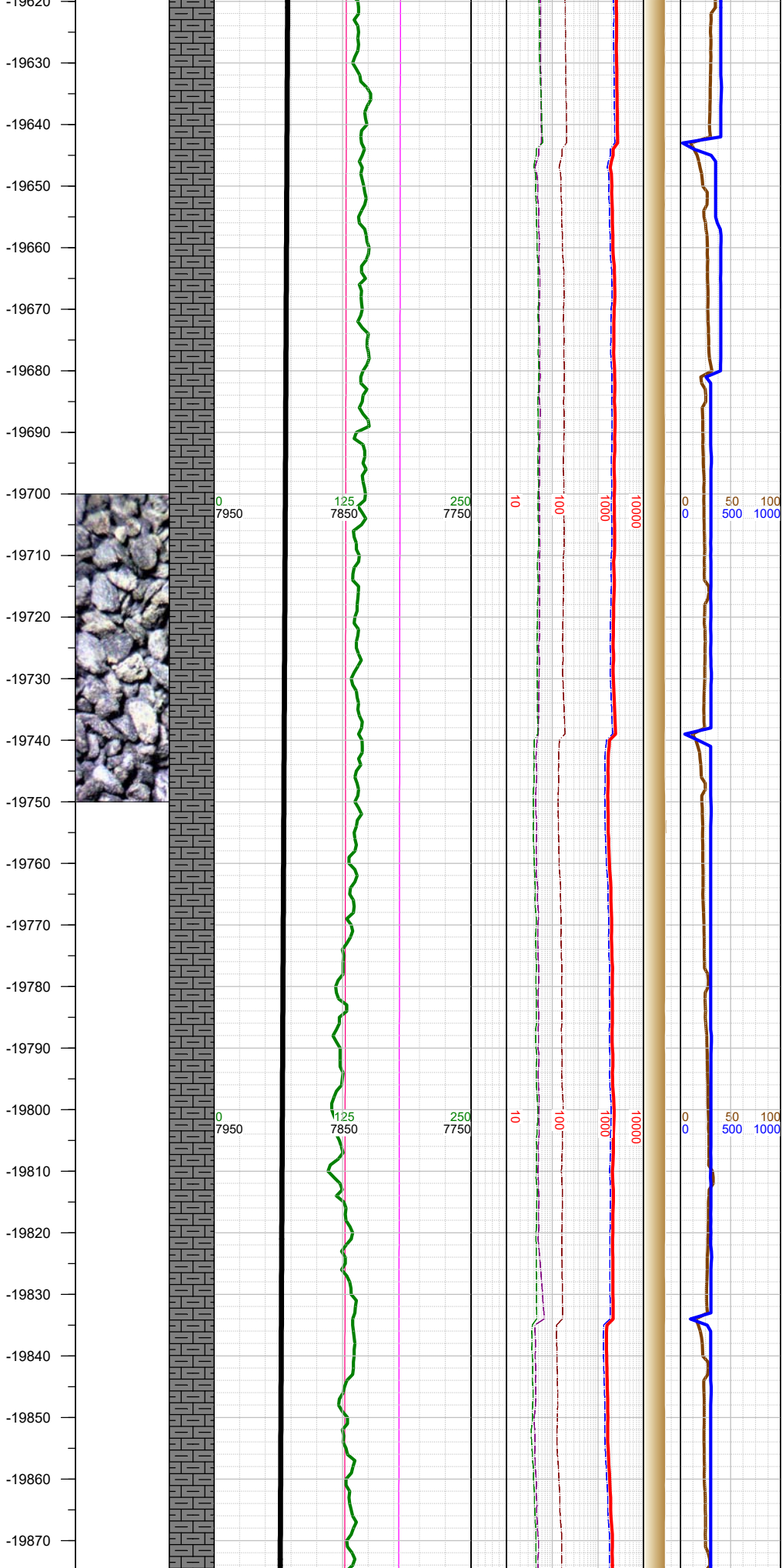
-19515 INC  
89.22, AZM  
179.68, TVD  
7890.48

-19600 WT 9.9,  
VIS 48

-19611 INC  
88.25, AZM  
180.07, TVD



-19500 MARL: dk gy-blk,  
sbbkly-sbply, sft-sbfrm,  
mod calc; tr bent wi disse  
pyr; tr fos frags;



7892.6

-19706 INC  
89.22, AZM  
178.36, TVD  
7894.7

-19720 WT 9.9,  
VIS 48

N

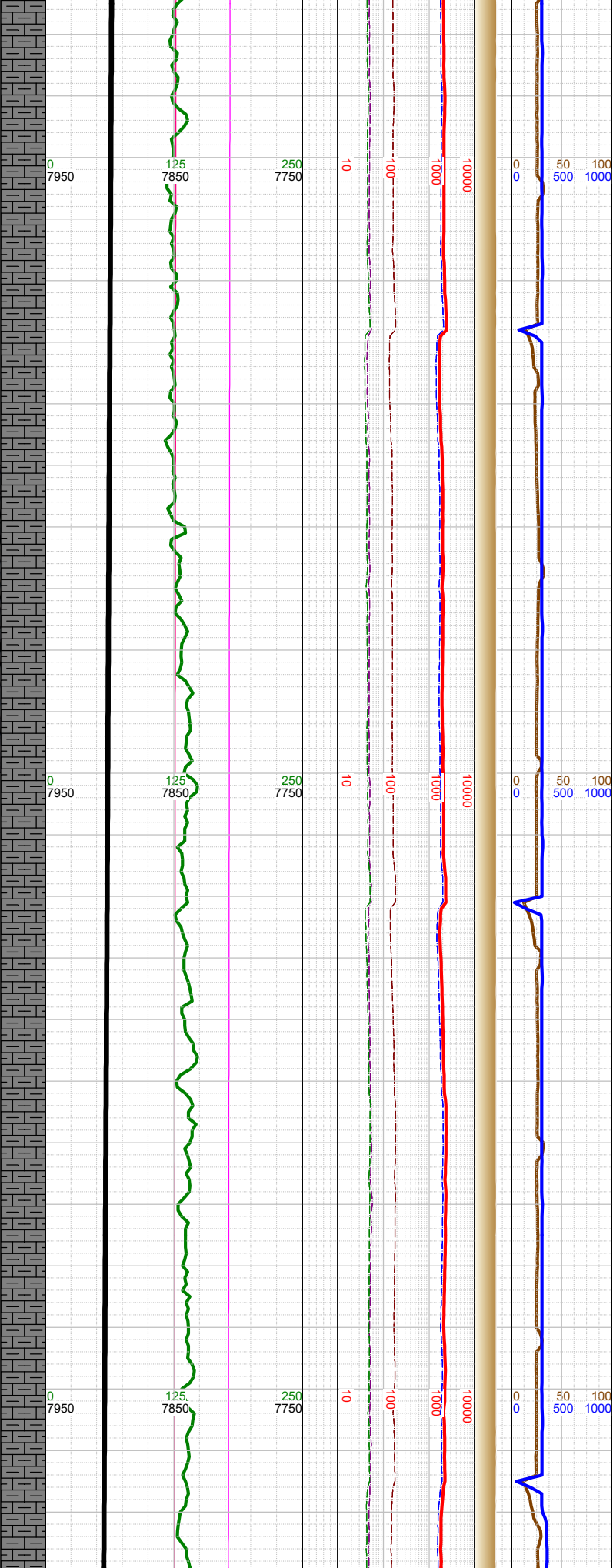
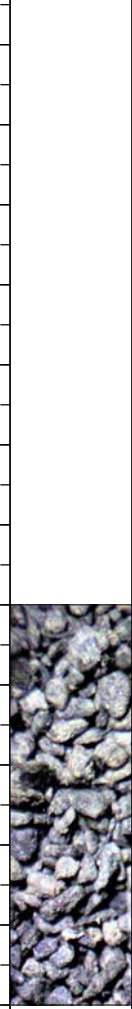
-19801 INC  
88.11, AZM  
180.6, TVD  
7896.91

-19820 WT 9.9,  
VIS 48

N

-19750 MARL: dk gy-blk,  
sbbkly-sbpity, sft-sbfrm,  
mod calc; tr bent wi dissem  
pyr; tr fos frags;

-19880  
-19890  
-19900  
-19910  
-19920  
-19930  
-19940  
-19950  
-19960  
-19970  
-19980  
-19990  
-20000  
-20010  
-20020  
-20030  
-20040  
-20050  
-20060  
-20070  
-20080  
-20090  
-20100  
-20110  
-20120



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-19897 INC  
89.31, AZM  
179.28, TVD  
7899.07

-19910 WT 9.9,  
VIS 48

-19992 INC  
87.94, AZM  
180.47, TVD  
7901.35

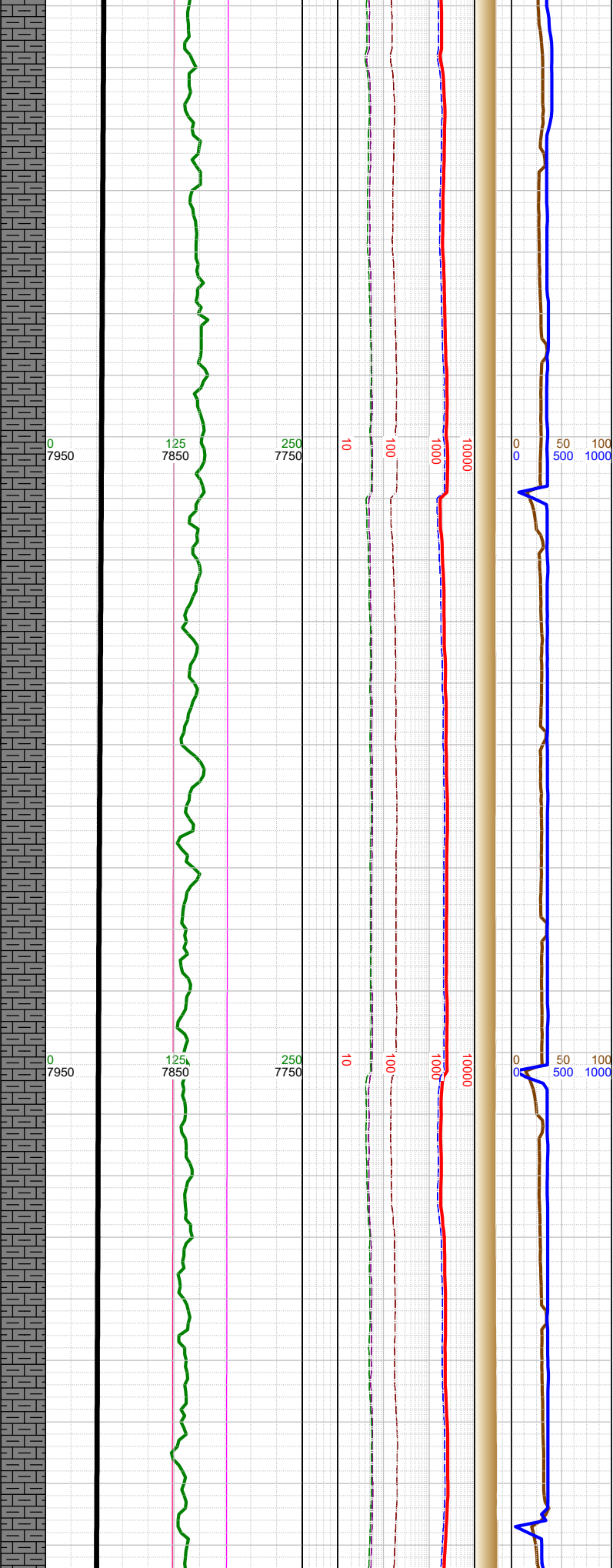
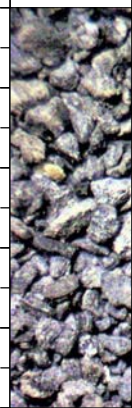
-20010 WT 9.9,  
VIS 48

-20087 INC  
89.31, AZM  
178.53, TVD  
7903.63

-20100 WT 9.9,  
VIS 48

-20000 MARL: dk gy-blk,  
sbbkly-sbplty, sft-sbfrm,  
mod calc; tr bent wi dissem  
pyr; tr fos frags;

-20130  
-20140  
-20150  
-20160  
-20170  
-20180  
-20190  
-20200  
-20210  
-20220  
-20230  
-20240  
-20250  
-20260  
-20270  
-20280  
-20290  
-20300  
-20310  
-20320  
-20330  
-20340  
-20350  
-20360  
-20370  
-20380



-20183 INC  
87.94, AZM  
180.43, TVD  
7905.94

-20200 WT 9.9,  
VIS 48

-20247 0000 hrs  
on 6/19/2018

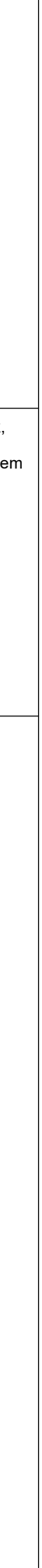
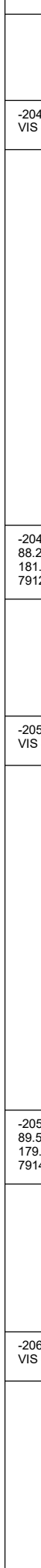
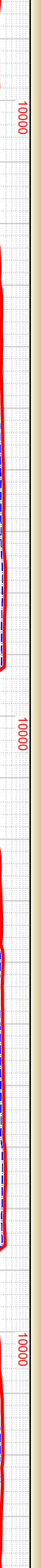
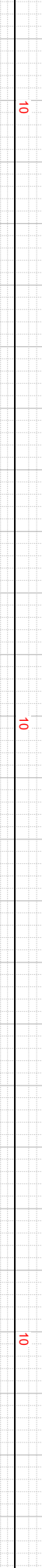
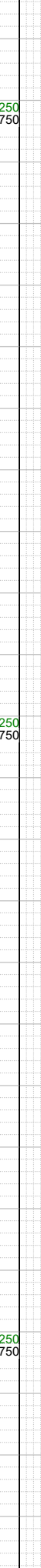
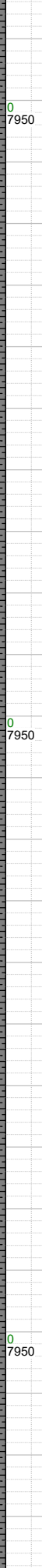
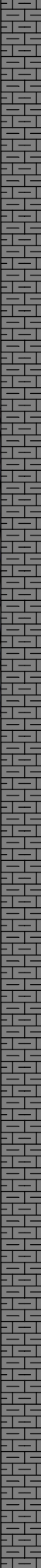
-20279 INC  
89.17, AZM  
179.68, TVD  
7908.36

-20300 WT 9.9,  
VIS 48

-20374 INC  
88.78, AZM  
180.21, TVD  
7910.06

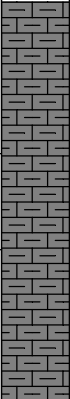
-20250 MARL: dk gy-blk,  
sbbkly-sbpity, sft-sbfrm,  
mod calc; tr bent wi dissem  
pyr; tr fos frags;

-20390  
-20400  
-20410  
-20420  
-20430  
-20440  
-20450  
-20460  
-20470  
-20480  
-20490  
-20500  
-20510  
-20520  
-20530  
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-20600  
-20610  
-20620  
-20630



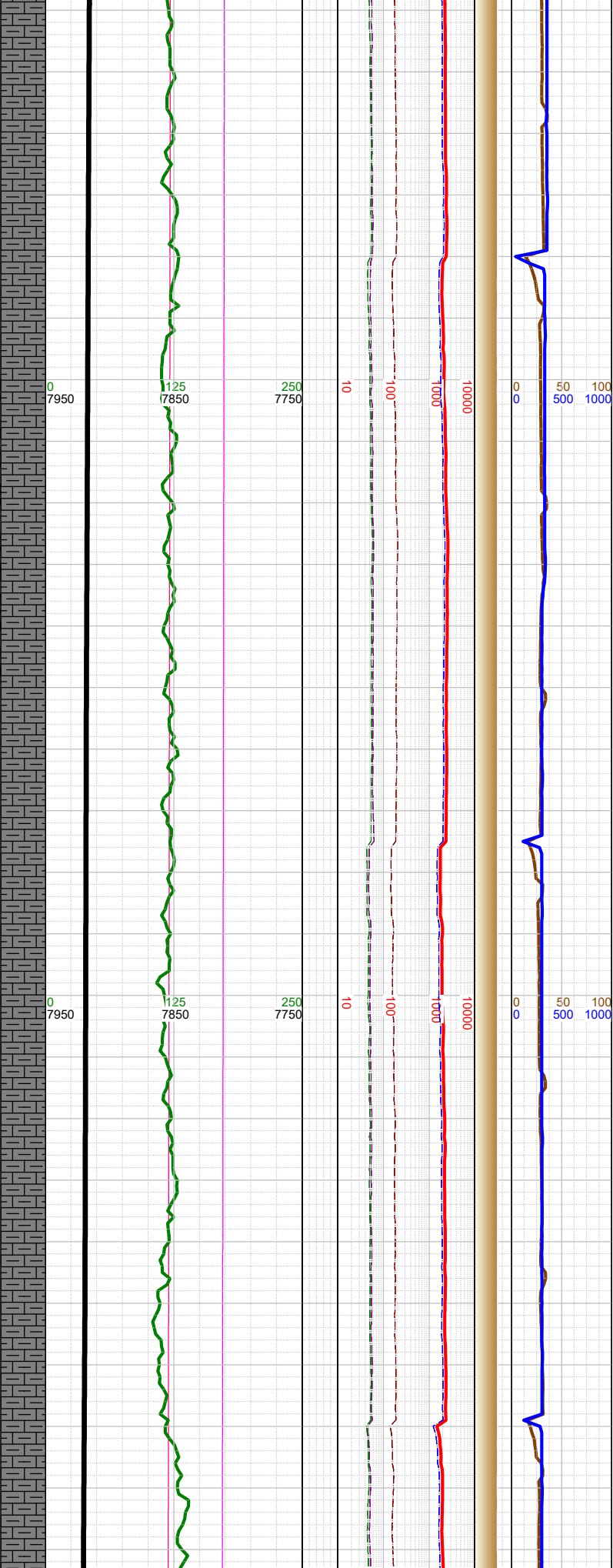
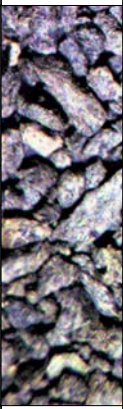
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-20400 WT 9.9, VIS 48	
-20469 INC 88.29, AZM 181.79, TVD 7912.49	
-20500 WT 9.9, VIS 48	
-20564 INC 89.53, AZM 179.19, TVD 7914.29	
-20600 WT 9.9, VIS 47	



-20500 MARL: dk gy-blk,  
sbbkly-sbpity, sft-sbfrm,  
mod calc; tr bent wi dissem  
pyr; tr fos frags;

-20640  
-20650  
-20660  
-20670  
-20680  
-20690  
-20700  
-20710  
-20720  
-20730  
-20740  
-20750  
-20760  
-20770  
-20780  
-20790  
-20800  
-20810  
-20820  
-20830  
-20840  
-20850  
-20860  
-20870  
-20880  
-20890



-20660 INC  
88.03, AZM  
181.49, TVD  
7916.34

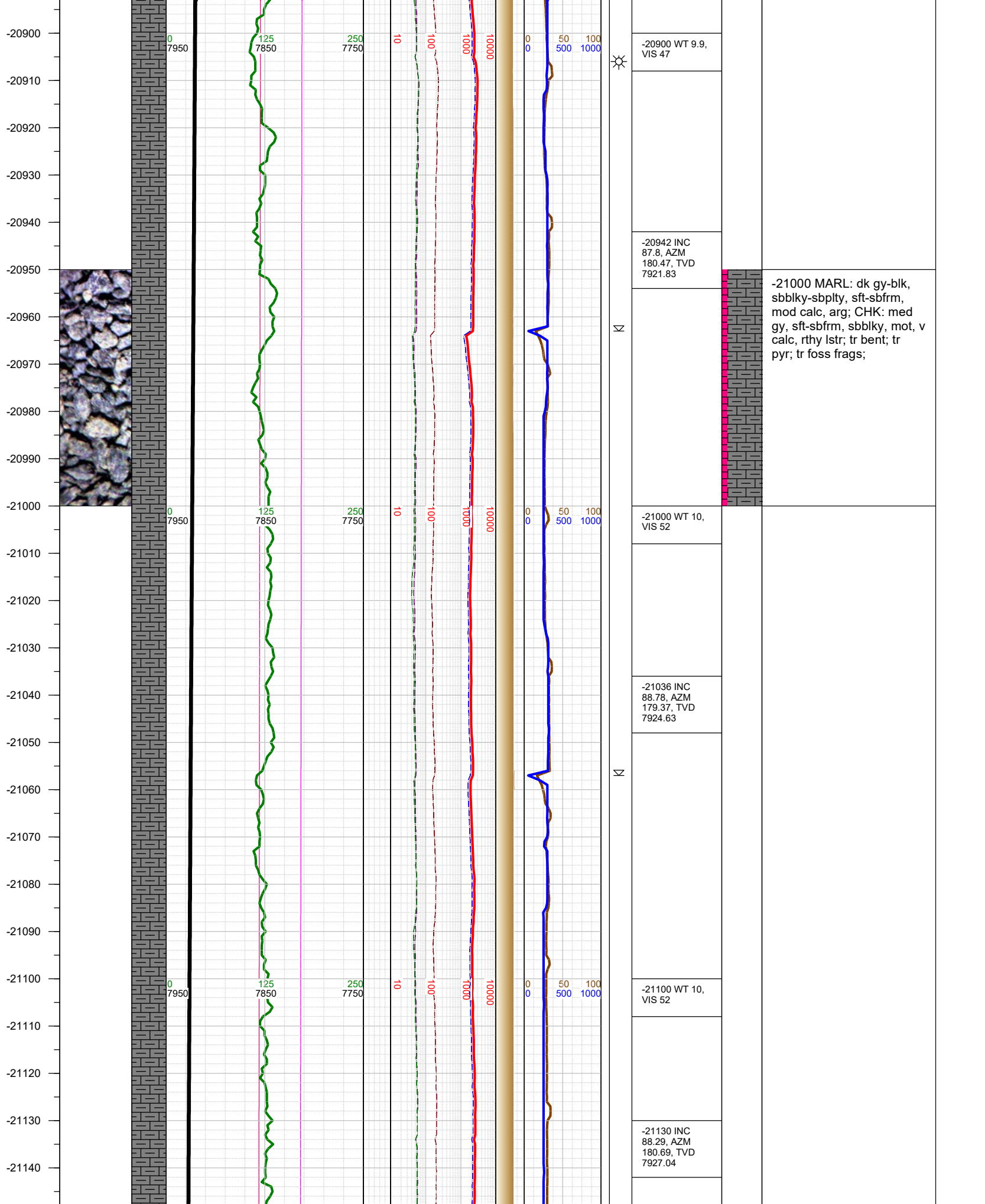
-20700 WT 9.9,  
VIS 47

-20754 INC  
89.7, AZM  
180.03, TVD  
7918.2

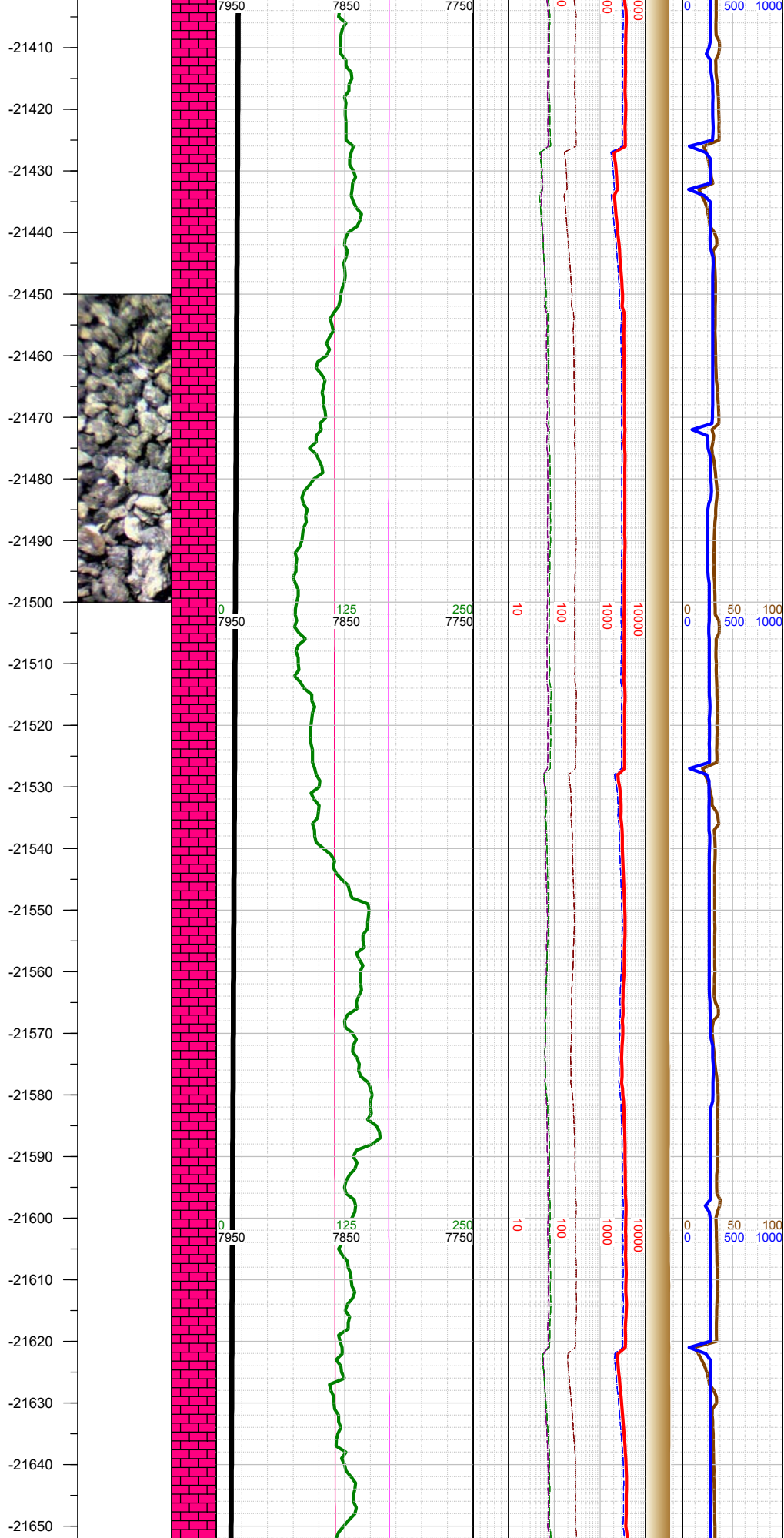
-20800 WT 9.9,  
VIS 48

-20848 INC  
89.04, AZM  
177.83, TVD  
7919.23

-20750 MARL: dk gy-blk,  
sbbkly-sbplty, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbkly, mot, v  
calc, rthy lstr; tr bent; tr  
pyr; tr foss frags;







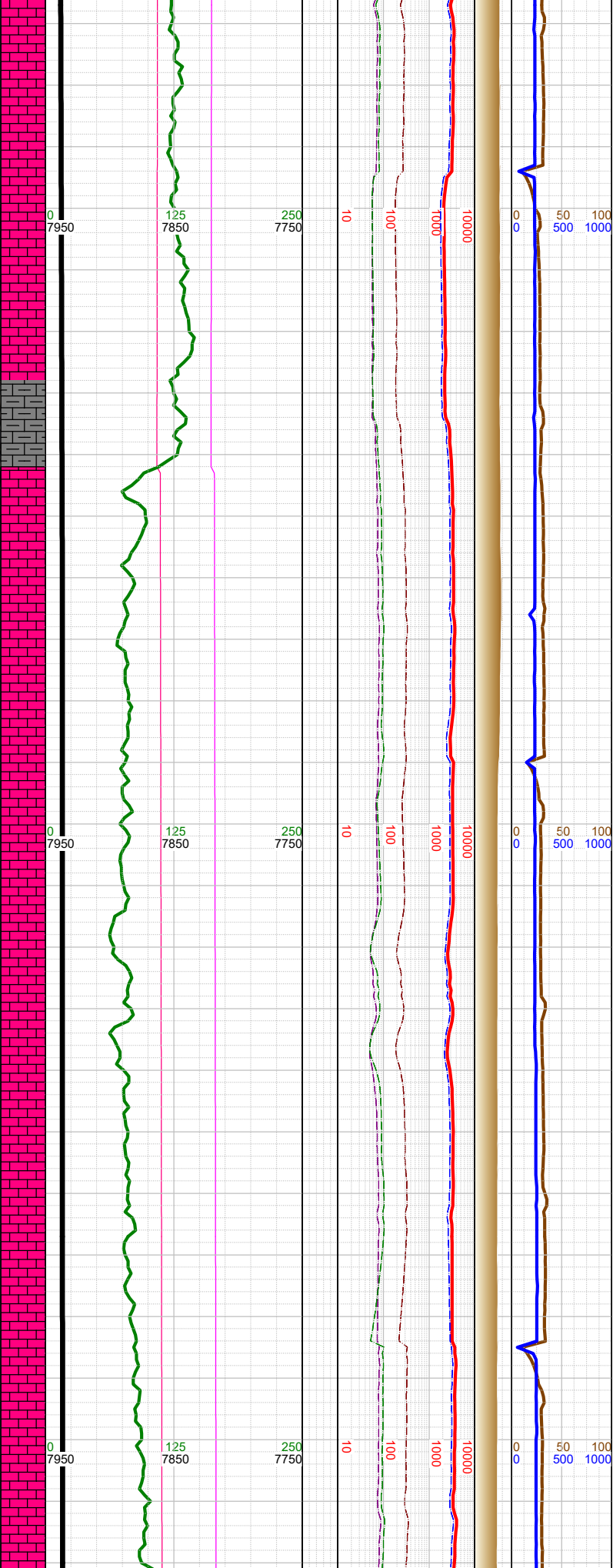
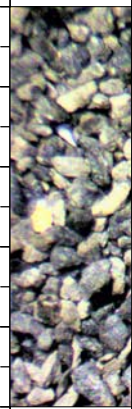
<p>VIS 52</p> <p>-21413 INC 89.17, AZM 179.37, TVD 7933.14</p>	<p>21413</p>
<p>-21507 INC 88.11, AZM 181.62, TVD 7935.38</p> <p>-21520 WT 10, VIS 52</p>	<p>21507</p> <p>21520</p>
<p>-21601 INC 89.35, AZM 178.71, TVD 7937.46</p> <p>-21620 WT 10, VIS 52</p>	<p>21601</p> <p>21620</p>

-21500 CHK: med gy, mot, sft-sbfrm, sbbkly, rthy lstr; MARL: dk gy-blk, sbbkly-sbply, sft-sbfrm; tr foss frag; mod foram; tr foss frag:





-22170  
-22180  
-22190  
-22200  
-22210  
-22220  
-22230  
-22240  
-22250  
-22260  
-22270  
-22280  
-22290  
-22300  
-22310  
-22320  
-22330  
-22340  
-22350  
-22360  
-22370  
-22380  
-22390  
-22400  
-22410  
-22420



-22165 INC  
91.6, AZM  
177.74, TVD  
7938.16

-22200 WT 10,  
VIS 52

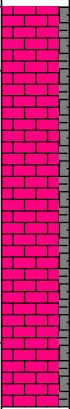
-22242 Fault: 3'  
up-throw; went  
from B Marl to C  
Chalk

-22259 INC  
89.93, AZM  
177.21, TVD  
7936.9

-22300 WT 10,  
VIS 52

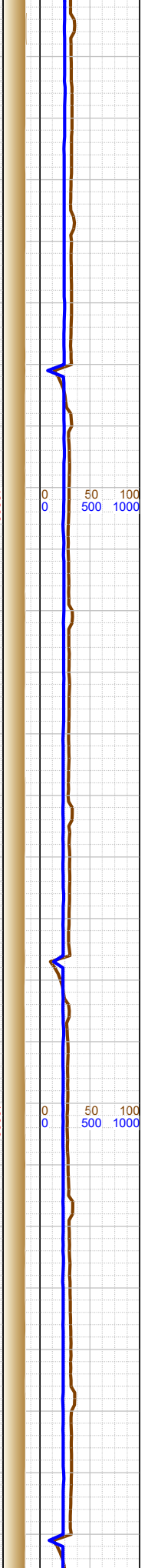
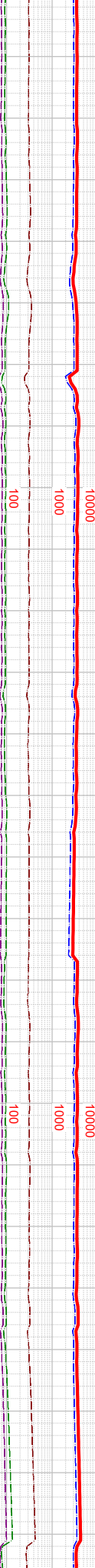
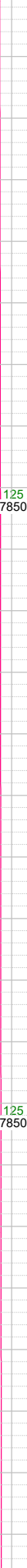
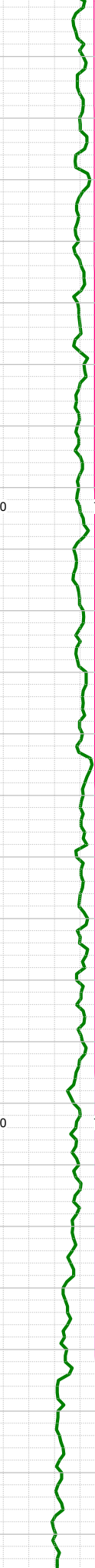
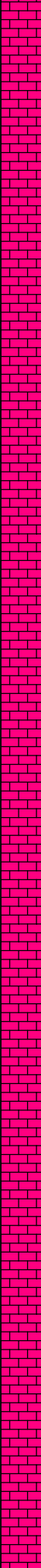
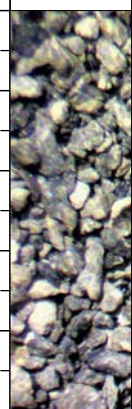
-22353 INC  
90.1, AZM  
178.84, TVD  
7936.88

-22400 WT 10,  
VIS 52



-22250 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbplty, sft-sbfrm; tr foss  
frag; mod foram; tr foss  
frag:

-22430  
-22440  
-22450  
-22460  
-22470  
-22480  
-22490  
-22500  
-22510  
-22520  
-22530  
-22540  
-22550  
-22560  
-22570  
-22580  
-22590  
-22600  
-22610  
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-22630  
-22640  
-22650  
-22660  
-22670



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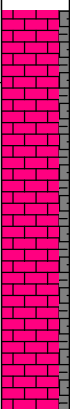
-22447 INC  
90.32, AZM  
179.15, TVD  
7936.53

-22500 WT 10,  
VIS 53

-22541 INC  
90.23, AZM  
177.96, TVD  
7936.08

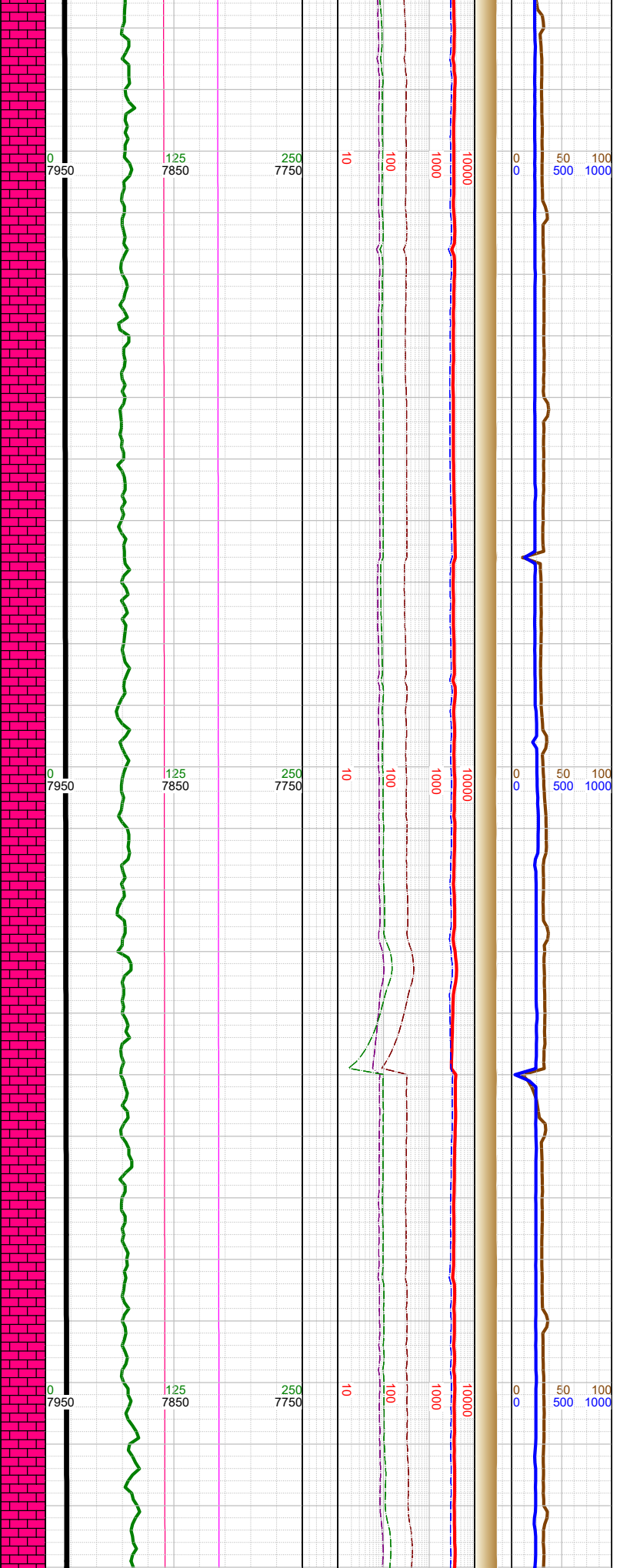
-22600 WT 10,  
VIS 53

-22635 INC  
90.68, AZM  
176.59, TVD  
7935.33



-22500 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbply, sft-sbfrm; tr foss  
frag; mod foram; tr foss  
frag:

-22680  
-22690  
-22700  
-22710  
-22720  
-22730  
-22740  
-22750  
-22760  
-22770  
-22780  
-22790  
-22800  
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-22830  
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-22860  
-22870  
-22880  
-22890  
-22900  
-22910  
-22920  
-22930



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-22700 WT 10,  
VIS 53

-22729 INC  
89.97, AZM  
177.92, TVD  
7934.8

-22800 WT 10,  
VIS 53

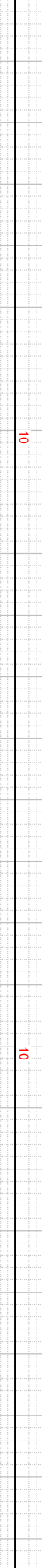
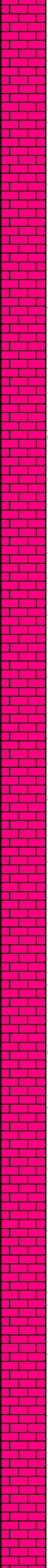
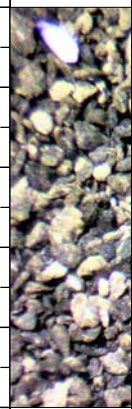
-22822 INC  
90.77, AZM  
176.64, TVD  
7934.2

-22900 WT 9.9,  
VIS 48

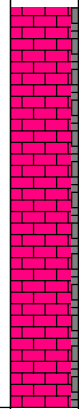
-22916 INC  
90.06, AZM  
177.92, TVD  
7933.52

-22750 CHK: med gy, mot,  
sft-sbfrm, sbbiky, rthy lstr;  
MARL: dk gy-blk, sbbiky-  
sbply, sft-sbfrm; tr foss  
frag; mod foram; tr foss  
frag:

-22950  
-22940  
-22950  
-22960  
-22970  
-22980  
-22990  
-23000  
-23010  
-23020  
-23030  
-23040  
-23050  
-23060  
-23070  
-23080  
-23090  
-23100  
-23110  
-23120  
-23130  
-23140  
-23150  
-23160  
-23170  
-23180



K  
K  
K



-23000 CHK: med gy, mot, sft-sbfrm, sbbkly, rthy lstr; MARL: dk gy-blk, sbbkly-sbply, sft-sbfrm; tr foss frag; mod foram; tr foss frag:

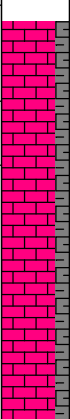
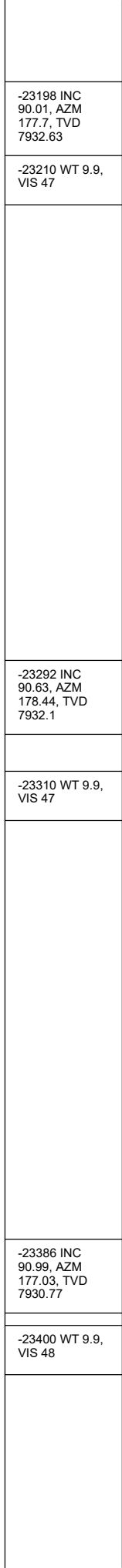
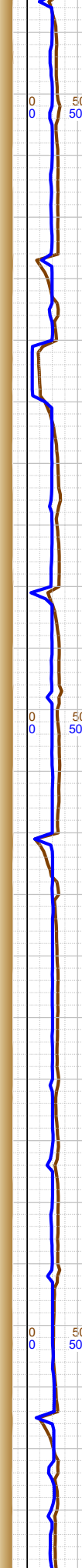
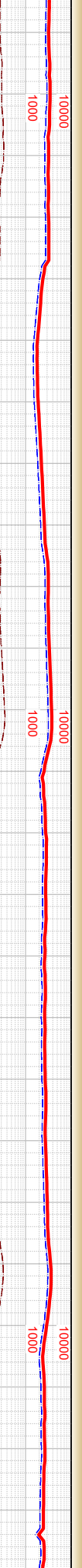
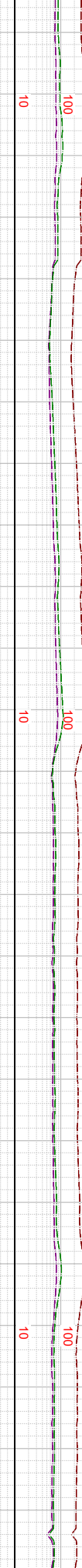
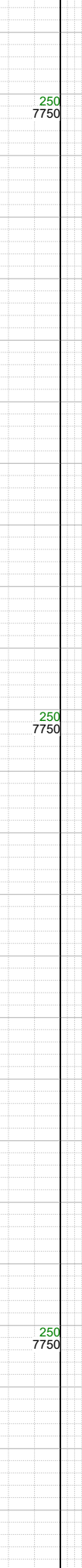
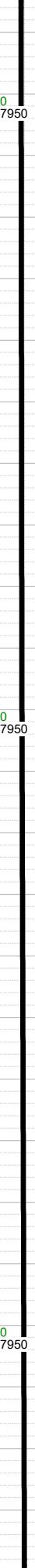
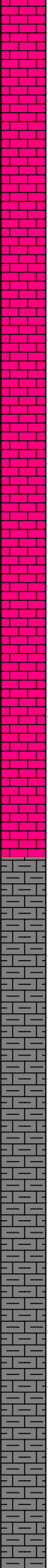
-23000 WT 9.9, VIS 48

-23010 INC 90.32, AZM 178.31, TVD 7933.21

-23104 INC 90.19, AZM 178.58, TVD 7932.79

-23120 WT 9.9, VIS 47

-23190  
-23200  
-23210  
-23220  
-23230  
-23240  
-23250  
-23260  
-23270  
-23280  
-23290  
-23300  
-23310  
-23320  
-23330  
-23340  
-23350  
-23360  
-23370  
-23380  
-23390  
-23400  
-23410  
-23420  
-23430



-23198 INC  
90.01, AZM  
177.7, TVD  
7932.63

-23210 WT 9.9,  
VIS 47

-23250 CHK: med gy, mot,  
sft-sbfrm, sbbkly, rthy lstr;  
MARL: dk gy-blk, sbbkly-  
sbply, sft-sbfrm; tr foss  
frag; mod foram; tr foss  
frag:

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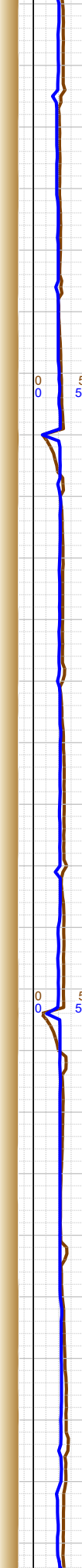
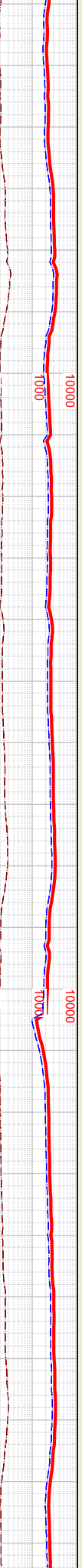
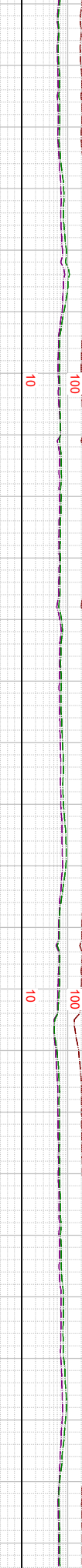
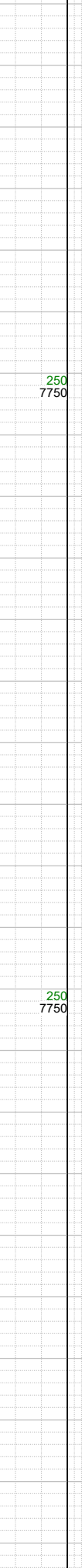
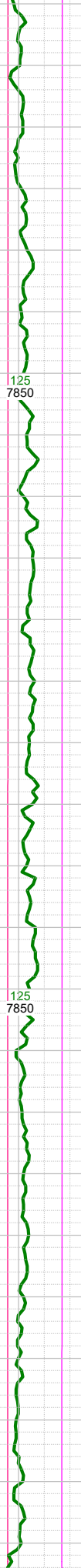
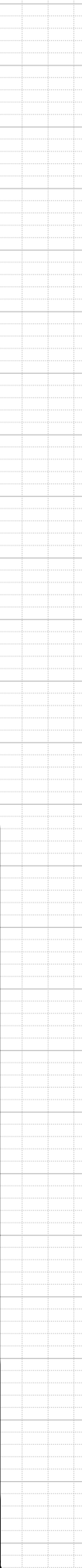
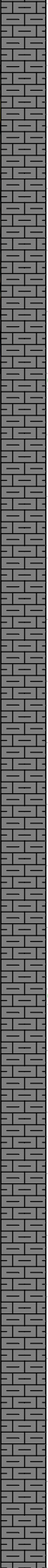
-23292 INC  
90.63, AZM  
178.44, TVD  
7932.1

-23310 WT 9.9,  
VIS 47

-23386 INC  
90.99, AZM  
177.03, TVD  
7930.77

-23400 WT 9.9,  
VIS 48

-23440  
-23450  
-23460  
-23470  
-23480  
-23490  
-23500  
-23510  
-23520  
-23530  
-23540  
-23550  
-23560  
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-23580  
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-23600  
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-23650  
-23660  
-23670  
-23680  
-23690



-23480 INC  
90.46, AZM  
177.92, TVD  
7929.58

-23500 WT 9.9,  
VIS 48

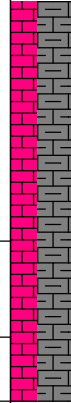


-23574 INC  
89.88, AZM  
176.73, TVD  
7929.3

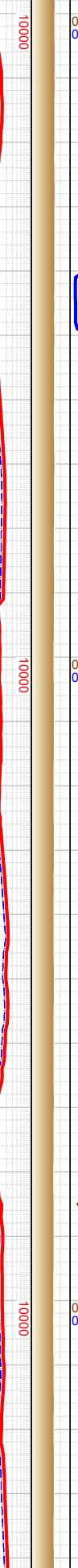
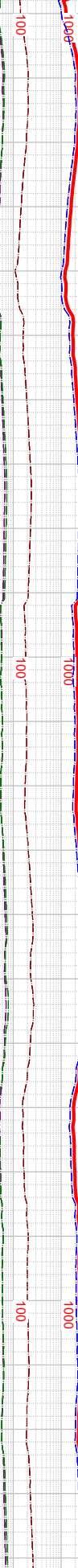
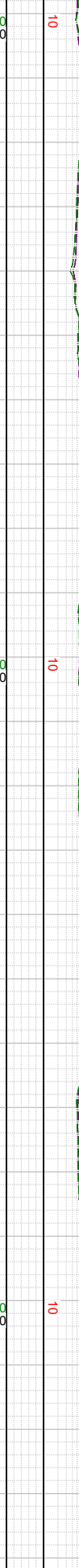
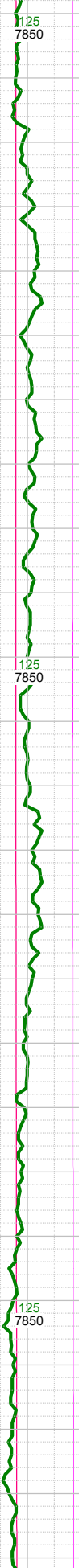
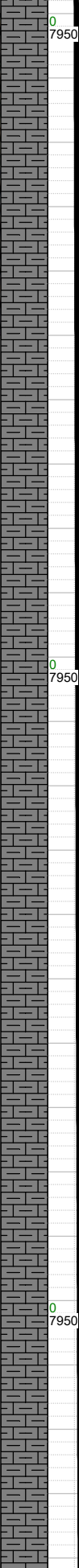
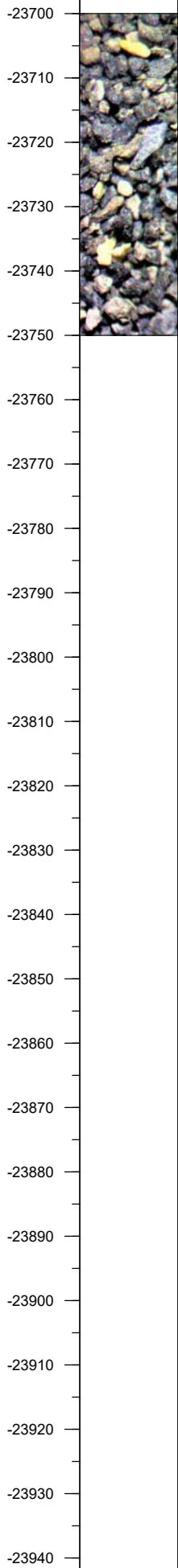
-23600 WT 9.8,  
VIS 47



-23667 INC  
90.37, AZM  
177.96, TVD  
7929.1

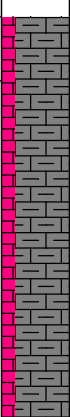


-23500 MARL: dk gy-blk, sbbkly-sbply, sft-sbfrm, mod calc, arg; CHK: med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; tr bent; mod forams;



N

-23700 WT 9.8,  
VIS 47



-23750 MARL: dk gy-blk,  
sbbkly-sbplty, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbkly, mot, v  
calc, rthy lstr; tr bent; mod  
forams;

-23762 INC  
90.94, AZM  
177.61, TVD  
7928.01

N

-23800 WT 9.8,  
VIS 47

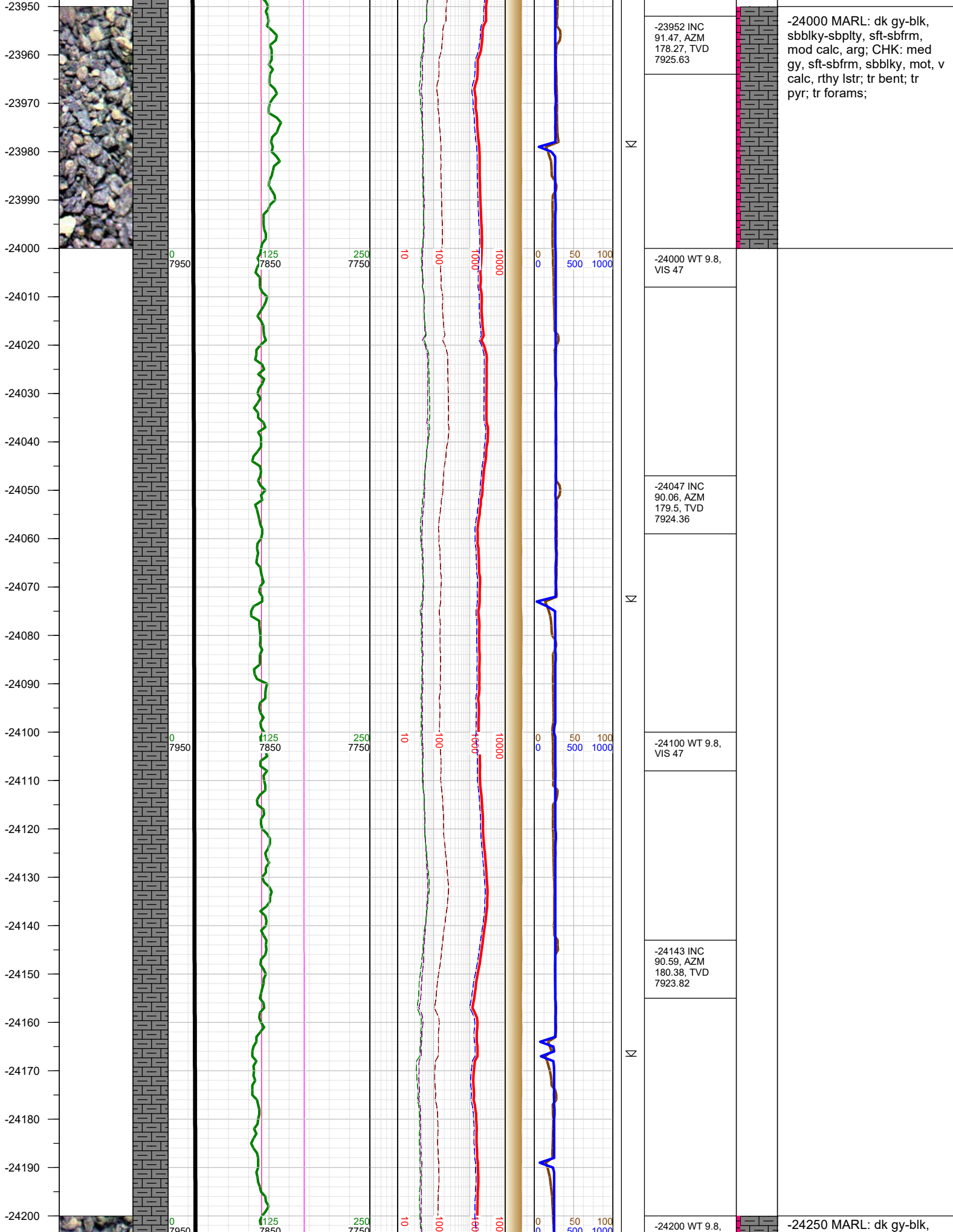
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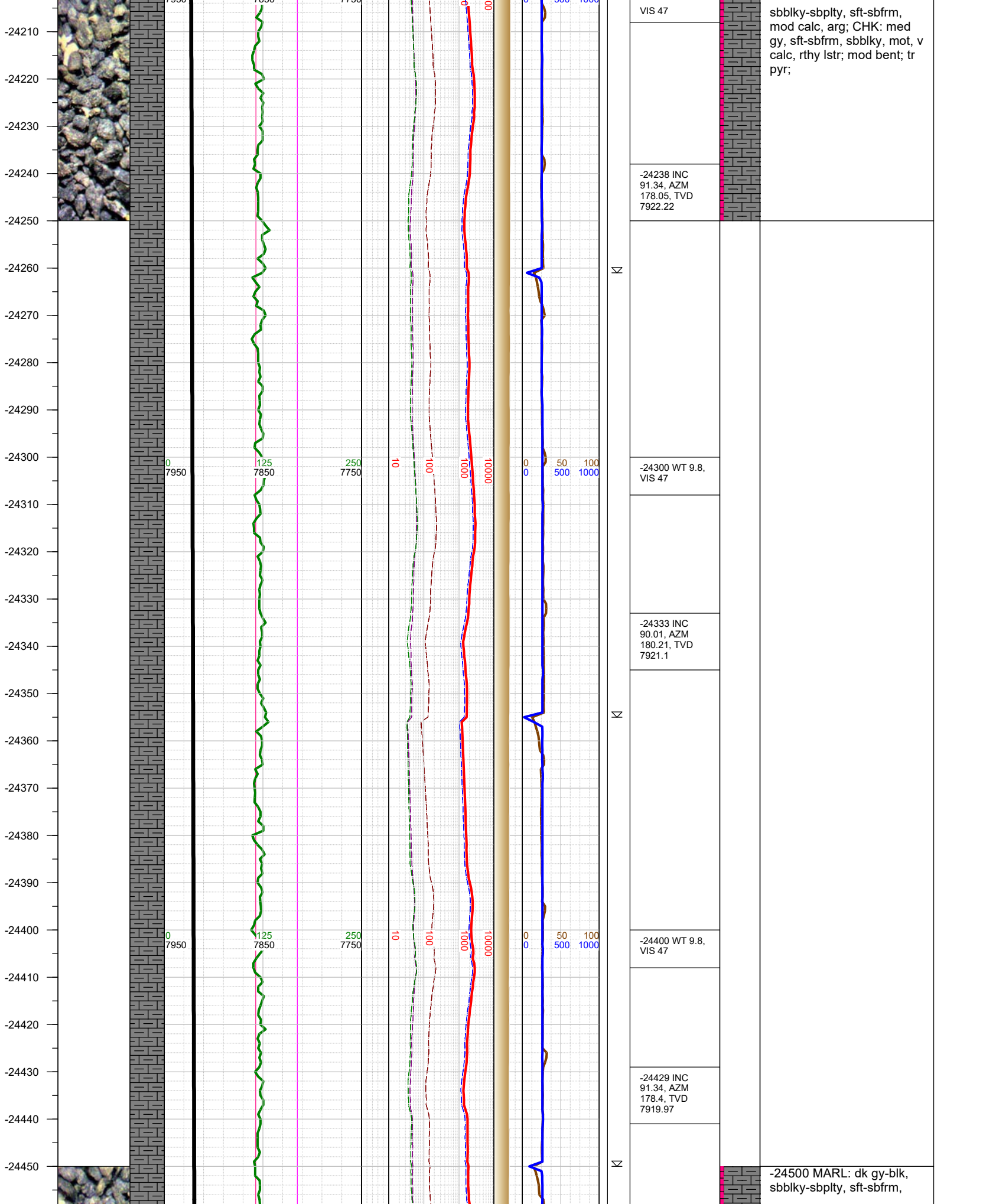
-23856 INC  
90.23, AZM  
179.77, TVD  
7927.05

N

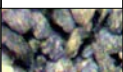
-23900 WT 9.8,  
VIS 47

N





-24210  
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-24230  
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-24450



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7850

250  
7750

10

100

1000

10000

0

0

50

100

-24238 INC  
91.34, AZM  
178.05, TVD  
7922.22

-24300 WT 9.8,  
VIS 47

-24333 INC  
90.01, AZM  
180.21, TVD  
7921.1

-24400 WT 9.8,  
VIS 47

-24429 INC  
91.34, AZM  
178.4, TVD  
7919.97

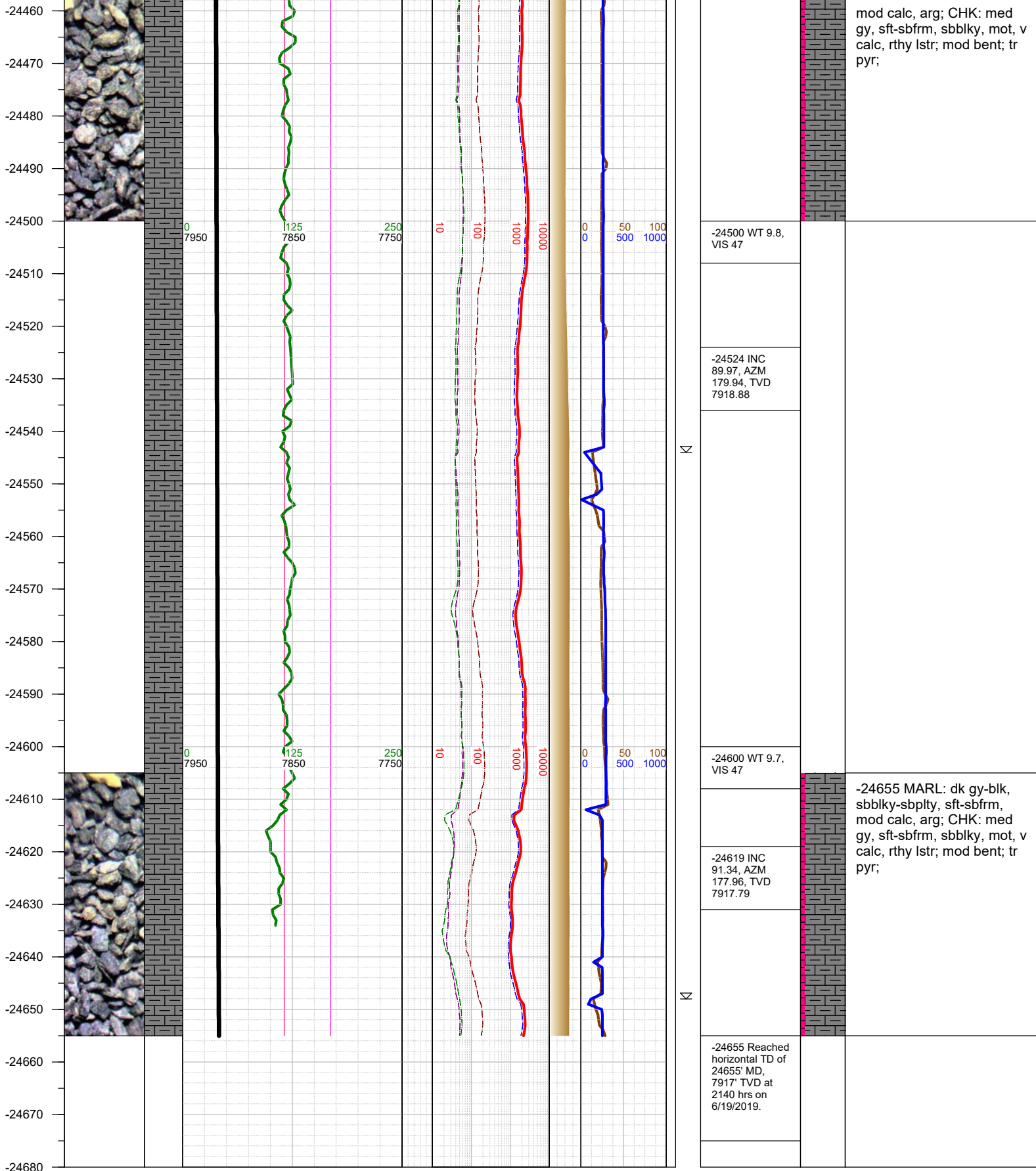
sbbkly-sbpity, sft-sbfrm,  
mod calc, arg; CHK: med  
gy, sft-sbfrm, sbbkly, mot, v  
calc, rthy lstr; mod bent; tr  
pyr;

-24500 MARL: dk gy-blk,  
sbbkly-sbpity, sft-sbfrm,

N

N

N



TOTAL DEPTH = 24655'

Thank you for using Earth Science Agency