

OPERATOR: **Extraction Oil & Gas**  
WELL NAME: **Interchange B N35-20-1N**  
FIELD NAME: DJ Basin - Wattenberg  
DRILLING RIG: Patterson 901  
API #: 05-014-20845

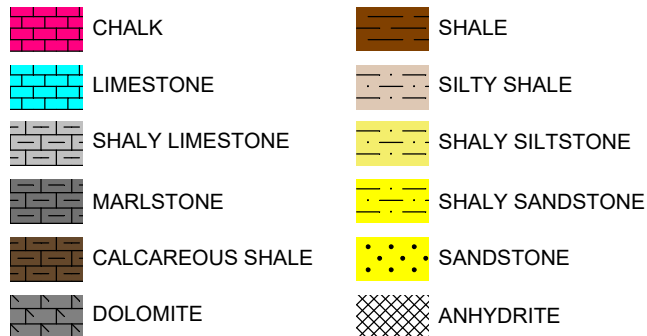
LAT/LONG: 39.978918, -104.991656  
SURFACE HOLE: NESW S10-T1S-R68W, 2474' FSL, 1550' FWL  
BOTTOM HOLE: S34-T1N-R68W, 460' FNL, 2577' FEL



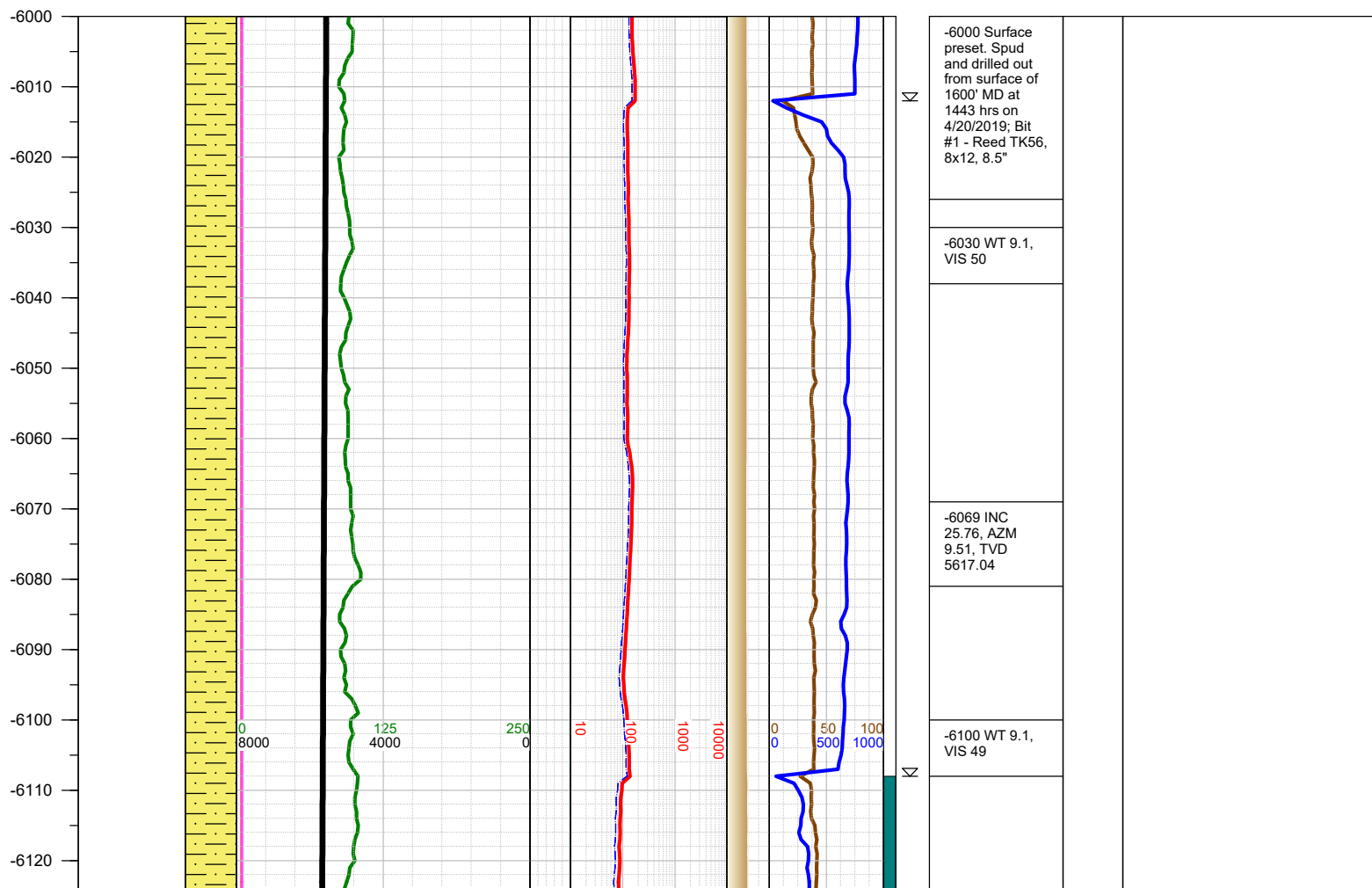
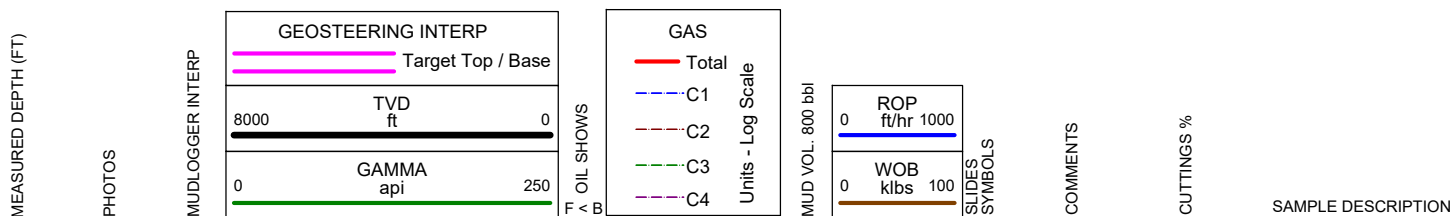
Earth Science Agency, LLC

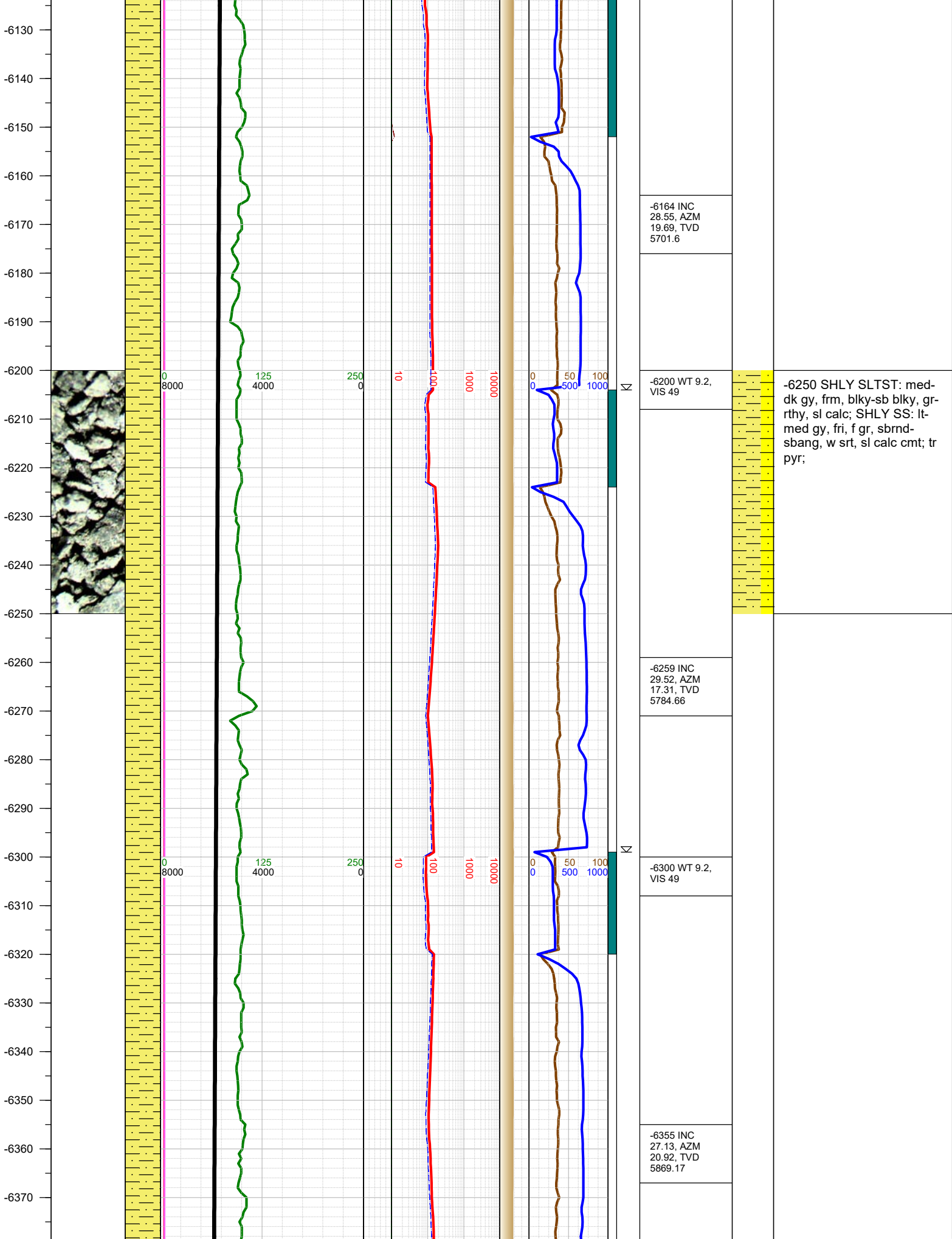
COUNTY: Broomfield  
STATE: Colorado  
GROUND ELEVATION: 5213'  
KELLY BUSHING: 5242'  
DRILLING FLUID: OBM  
TVD VS. MD: 7793' / 18380'  
SPUD DATE: April 20, 2019  
TD DATE: April 24, 2019  
DEPTHS LOGGED: 6000' - 18380'  
DATES LOGGED: April 20, 2019 - April 24, 2019  
GEOLOGISTS: Zak Lewis, Dominic Pitre  
SCALE: 5" = 100'

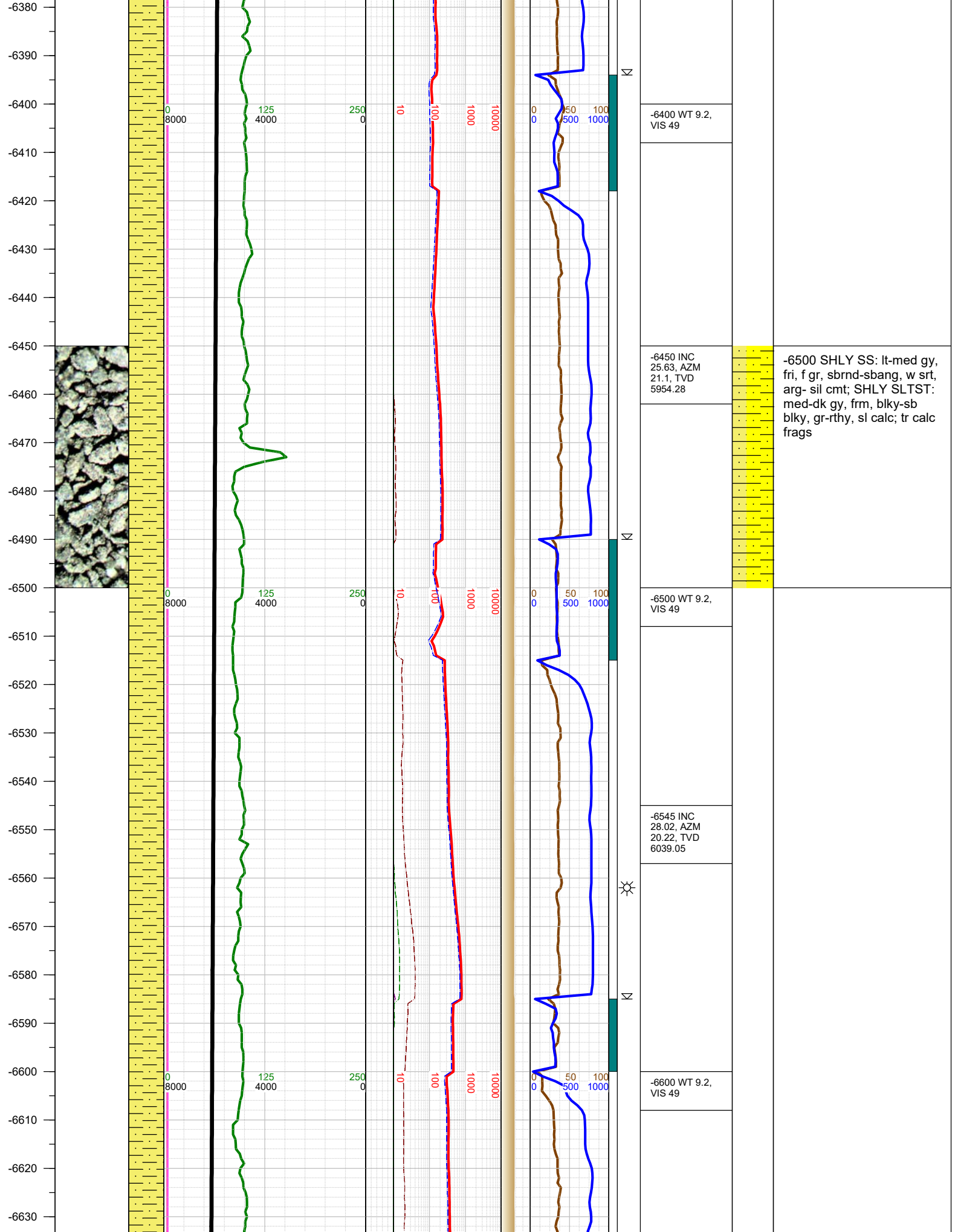
#### LEGEND

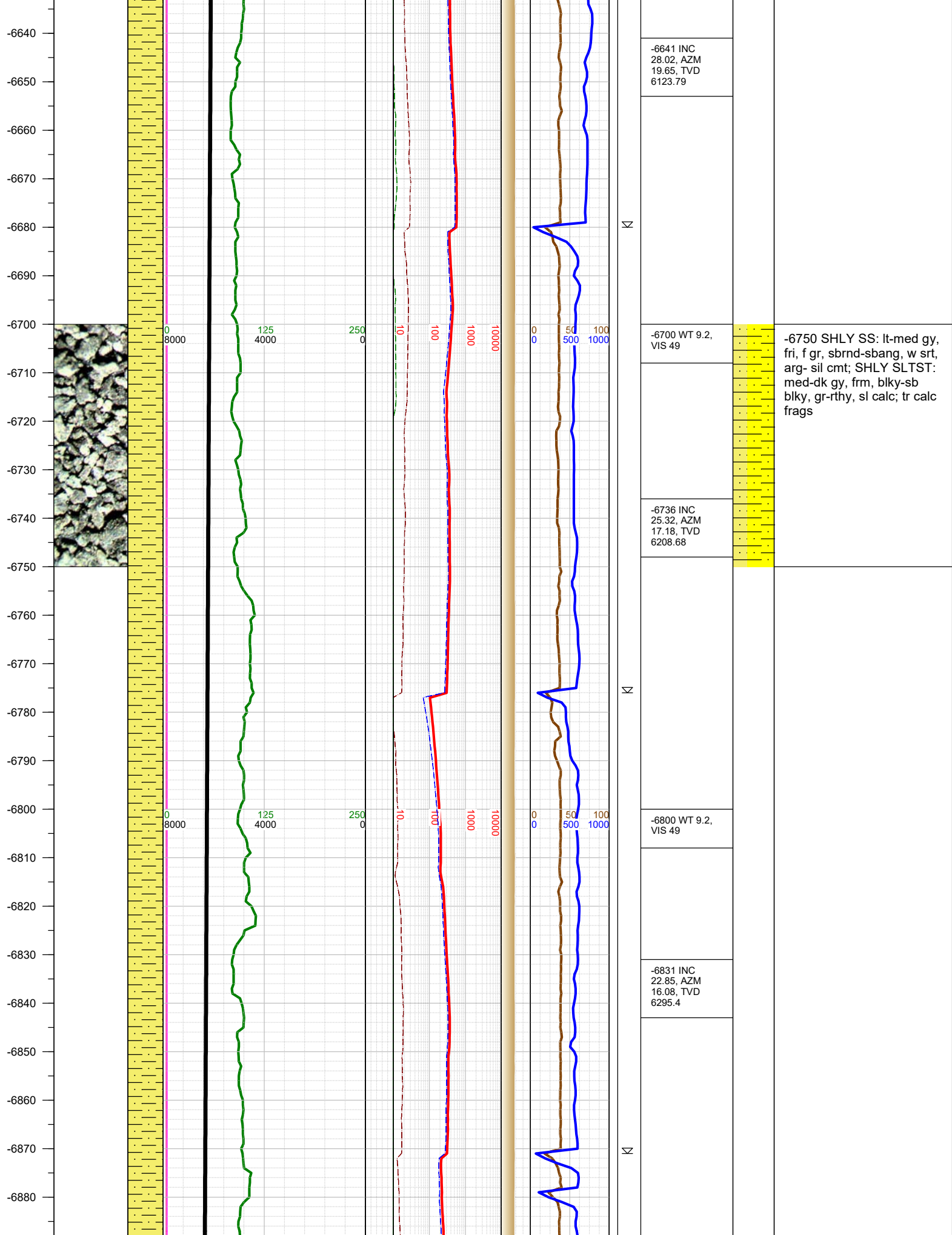


FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

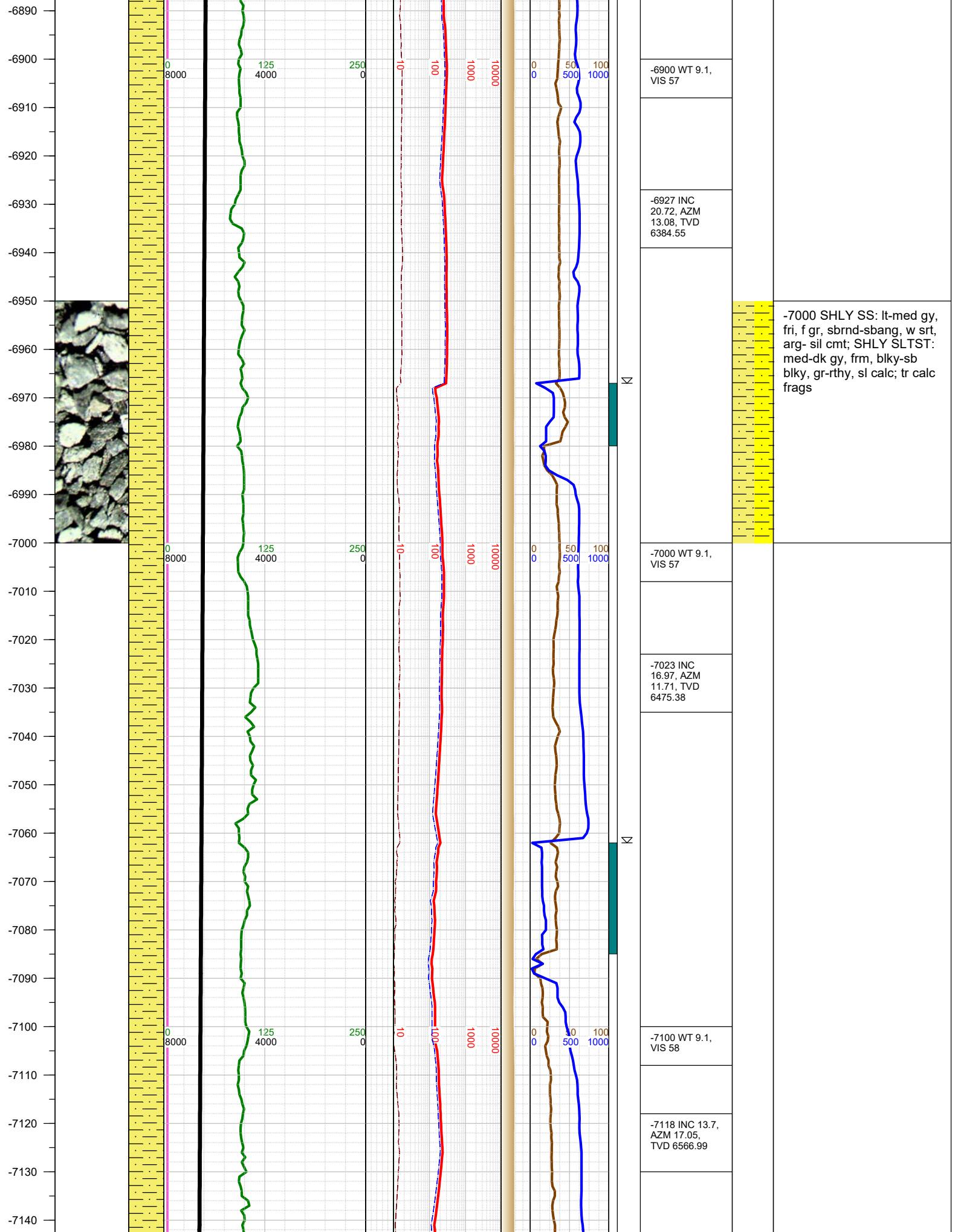


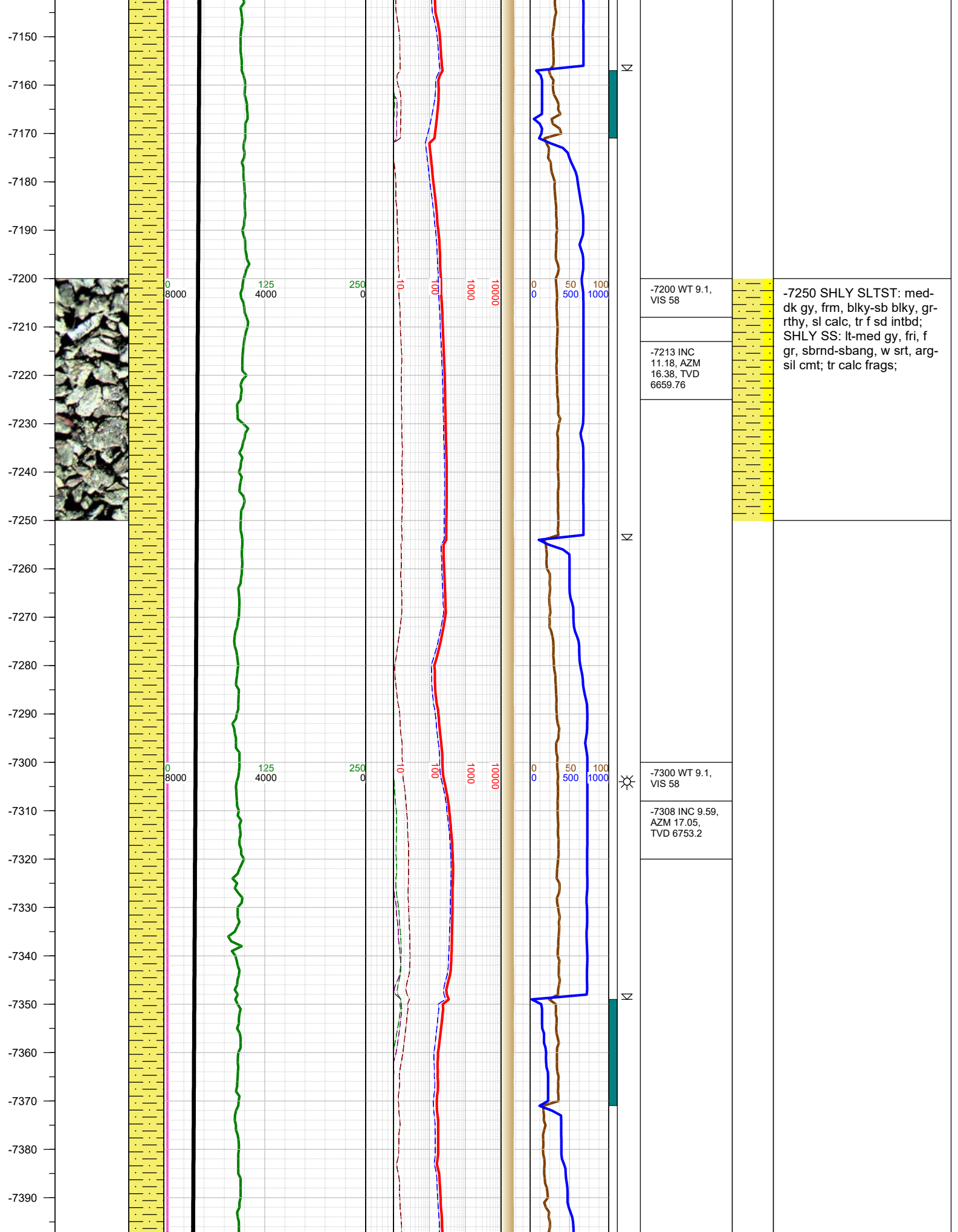


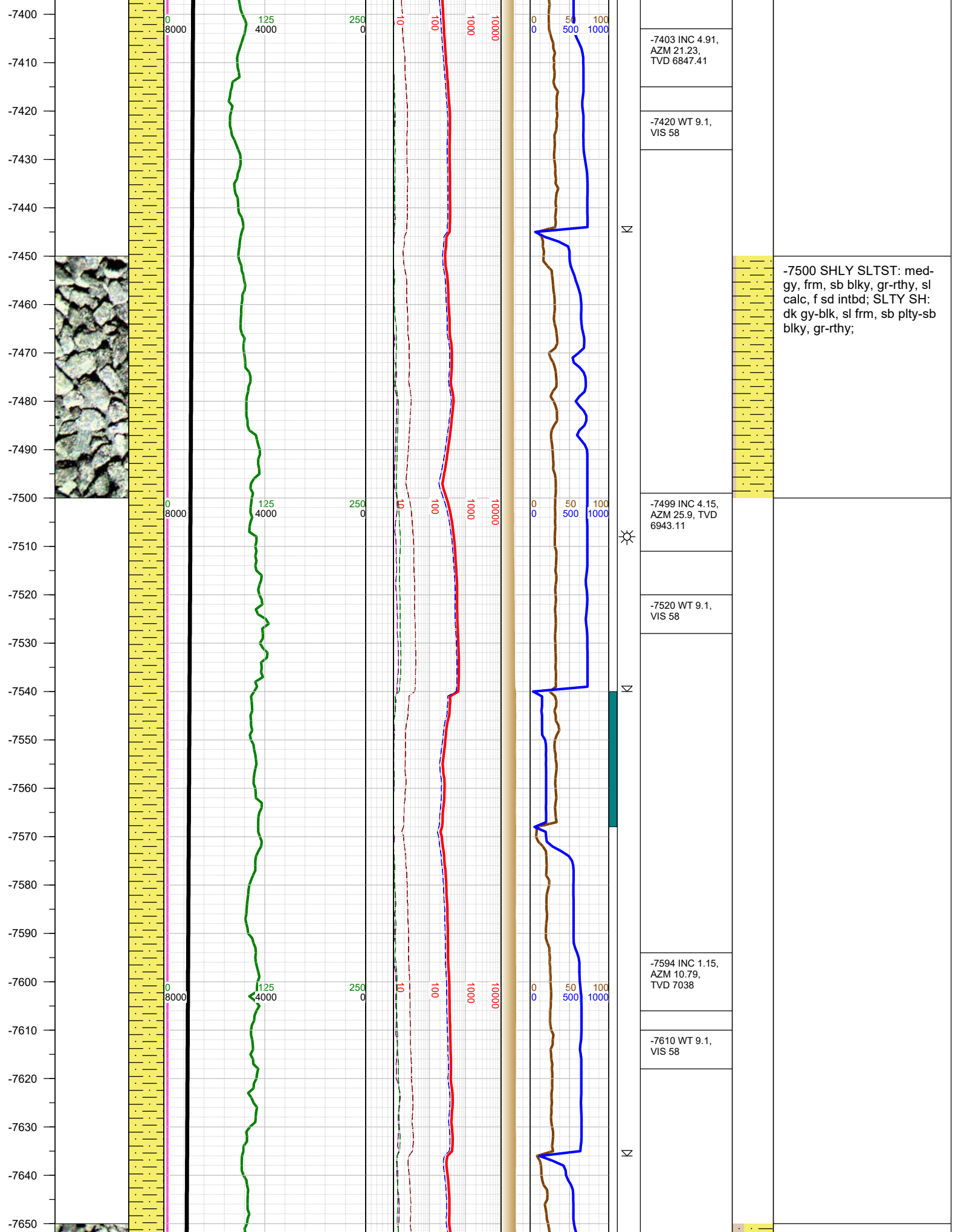




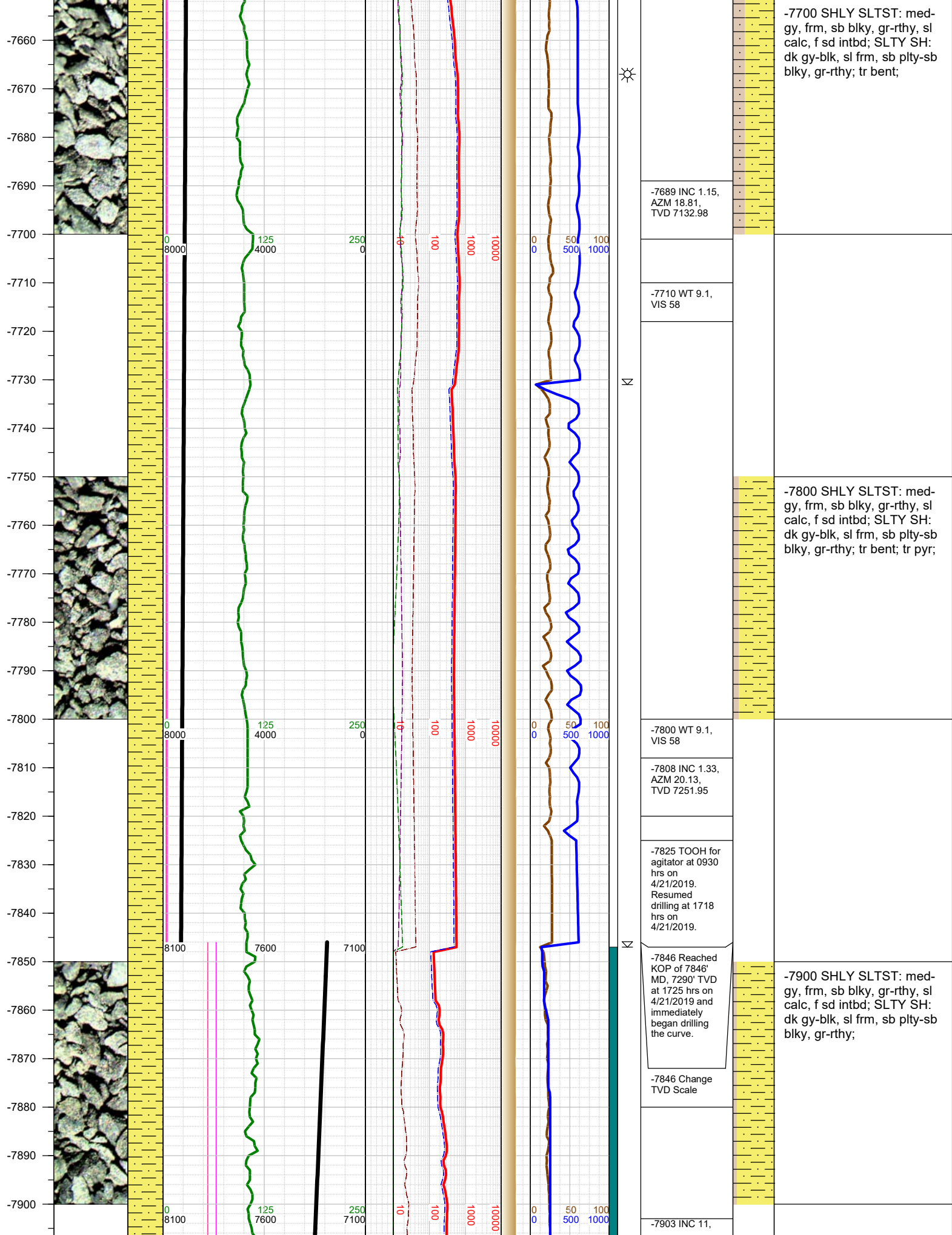




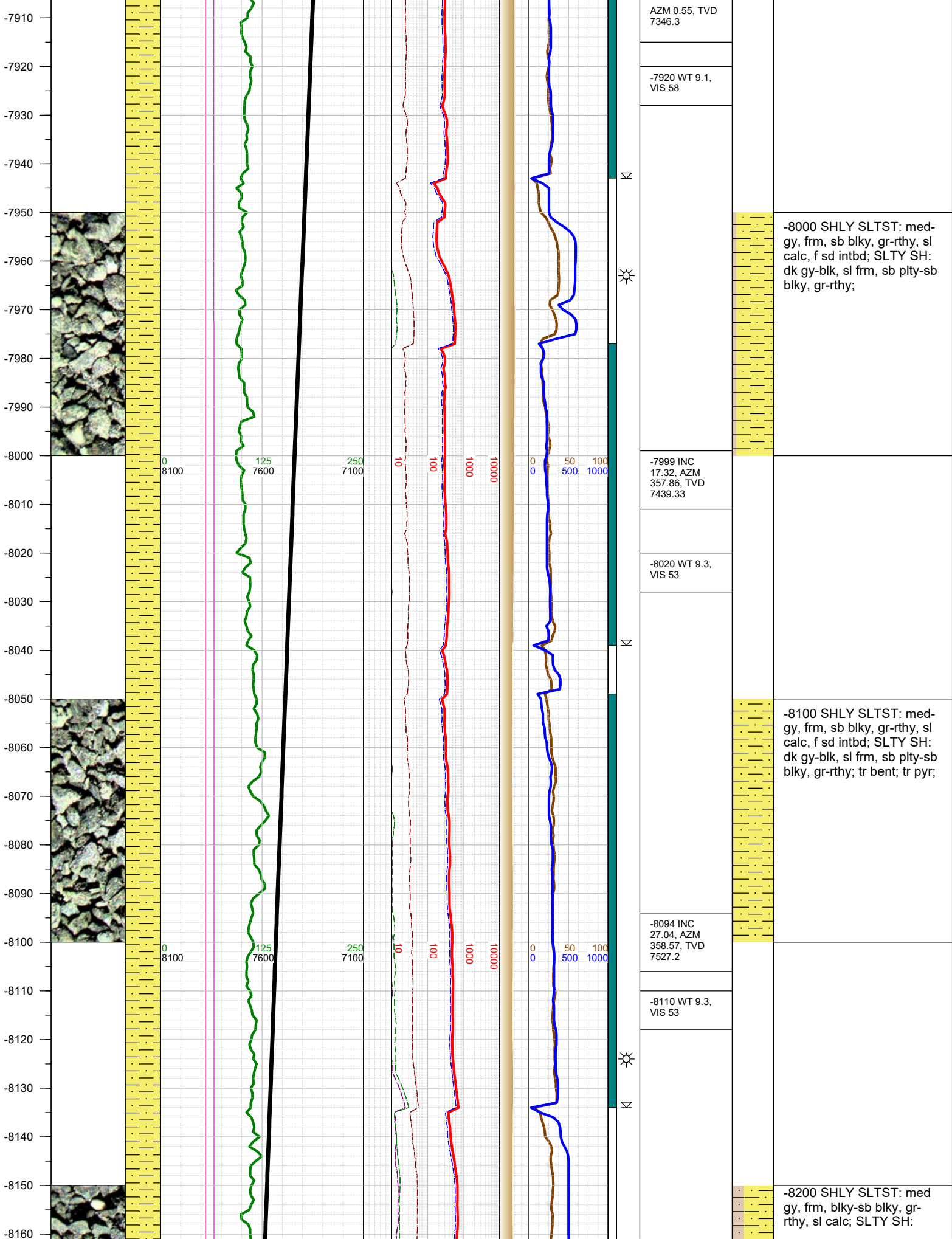


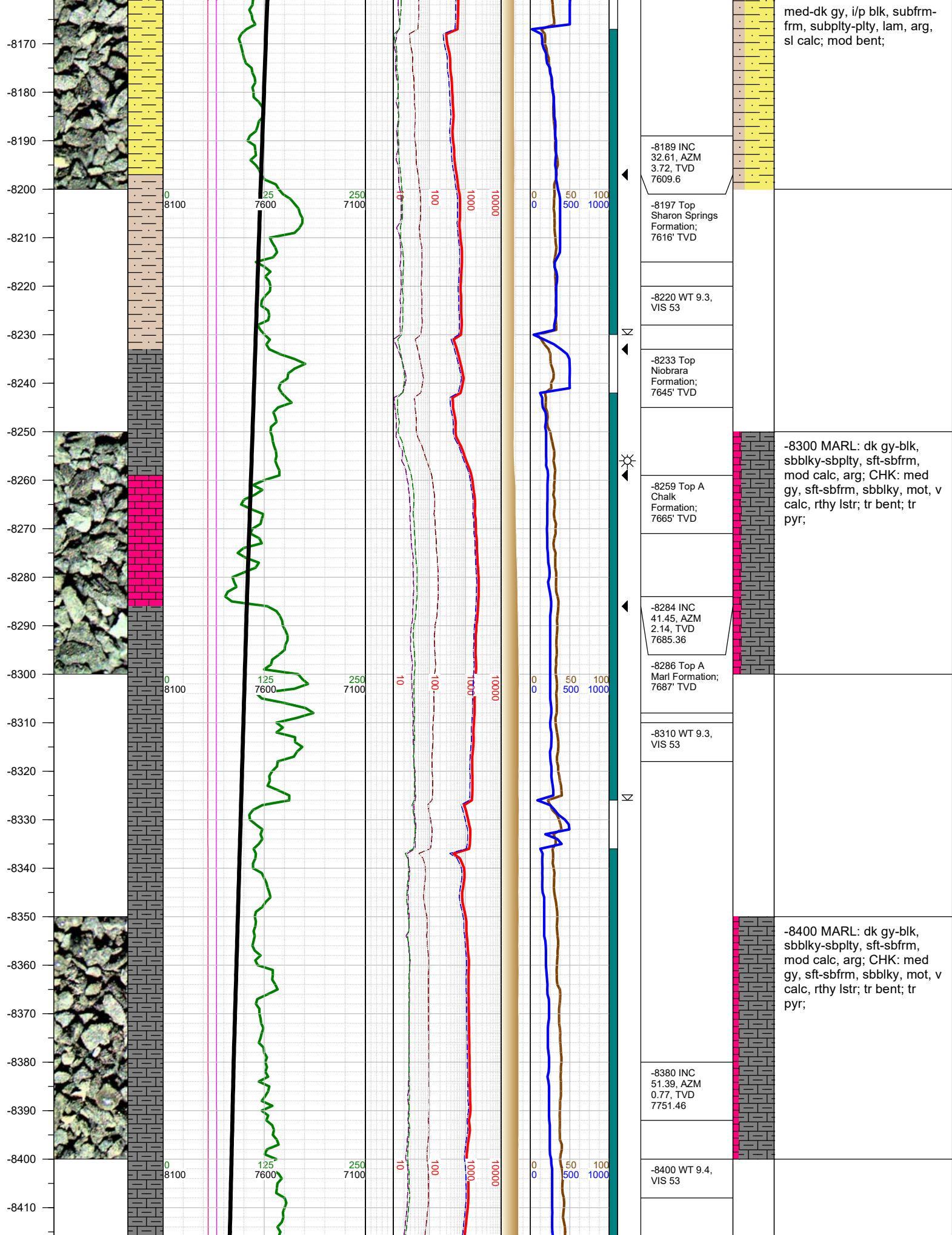


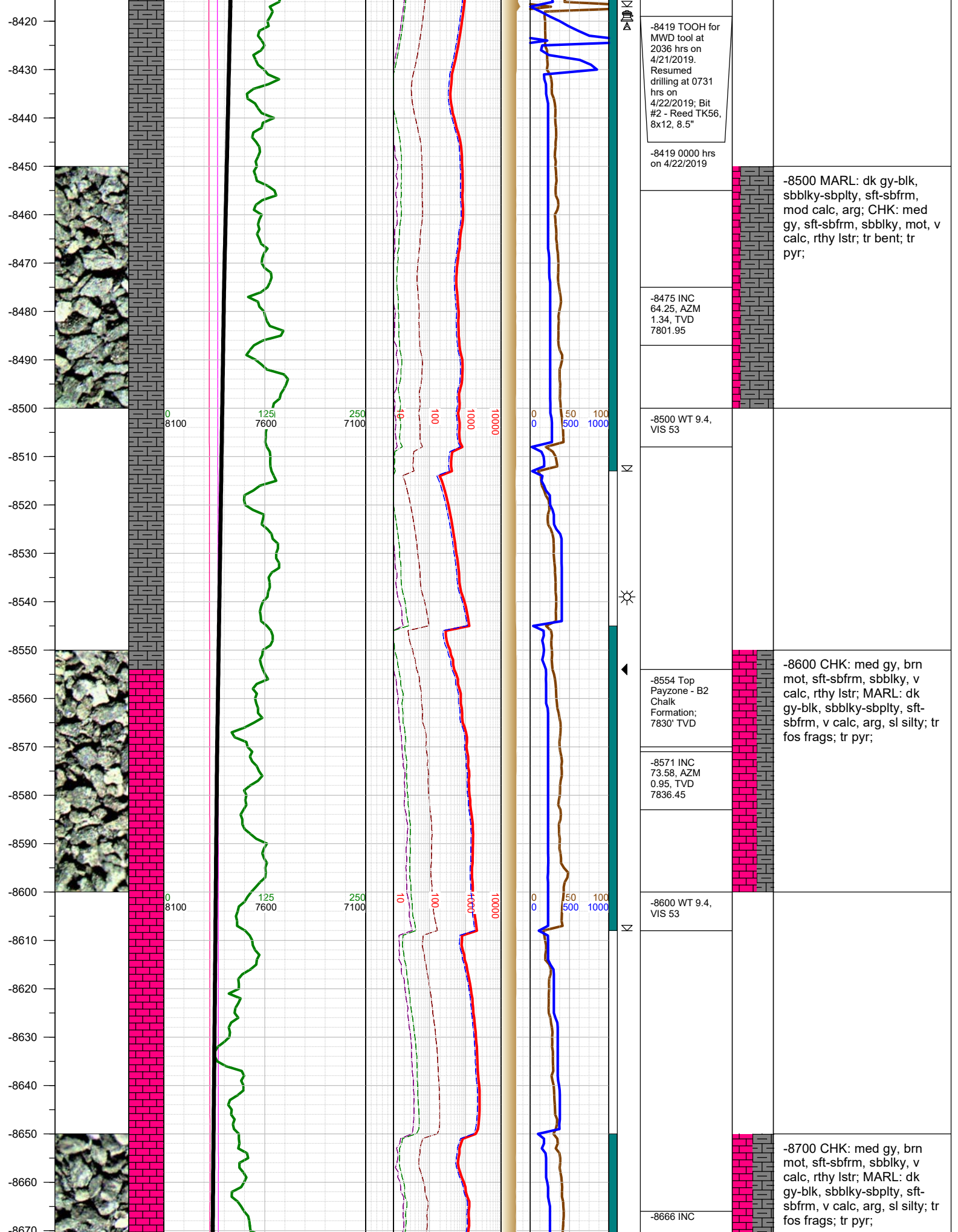




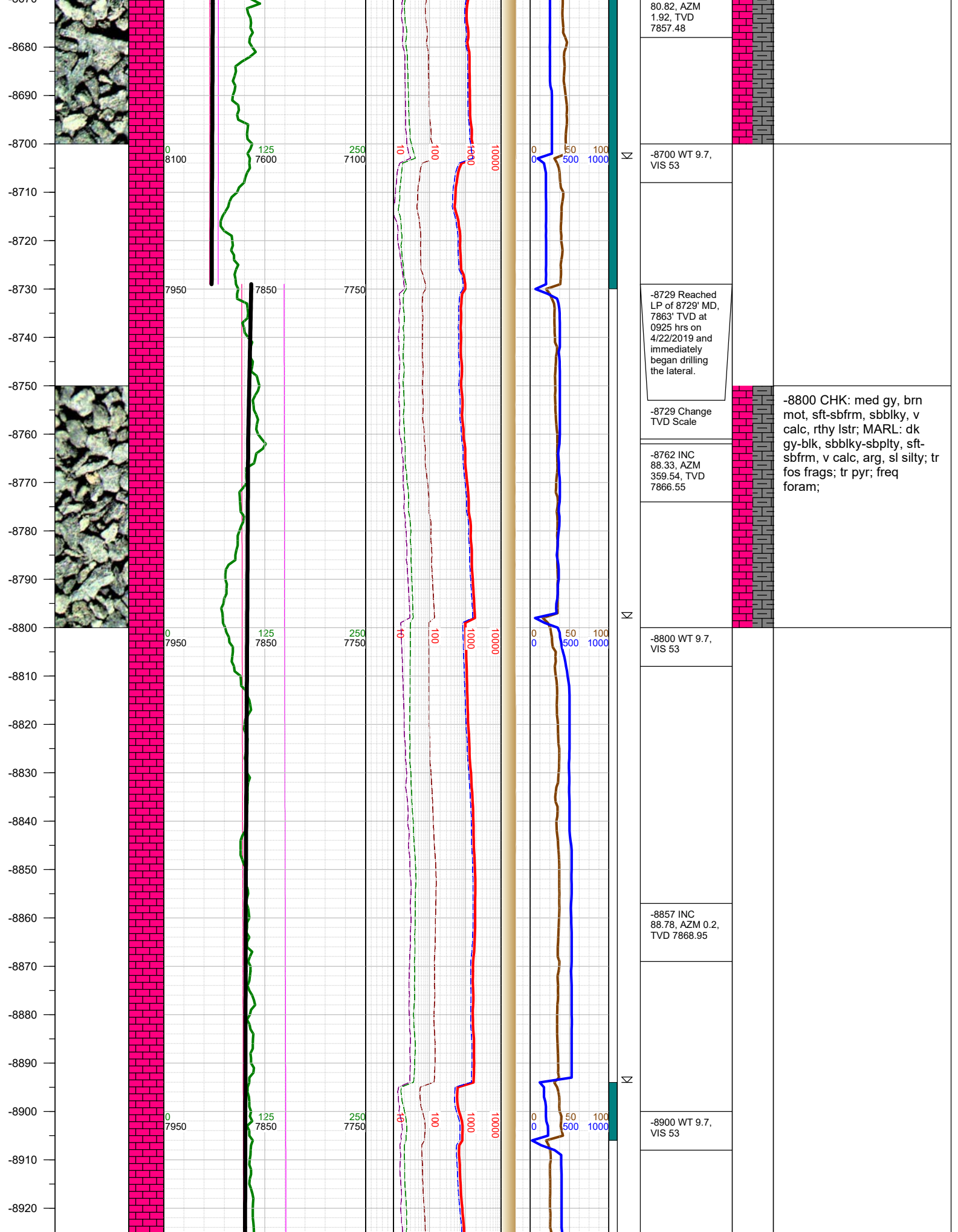




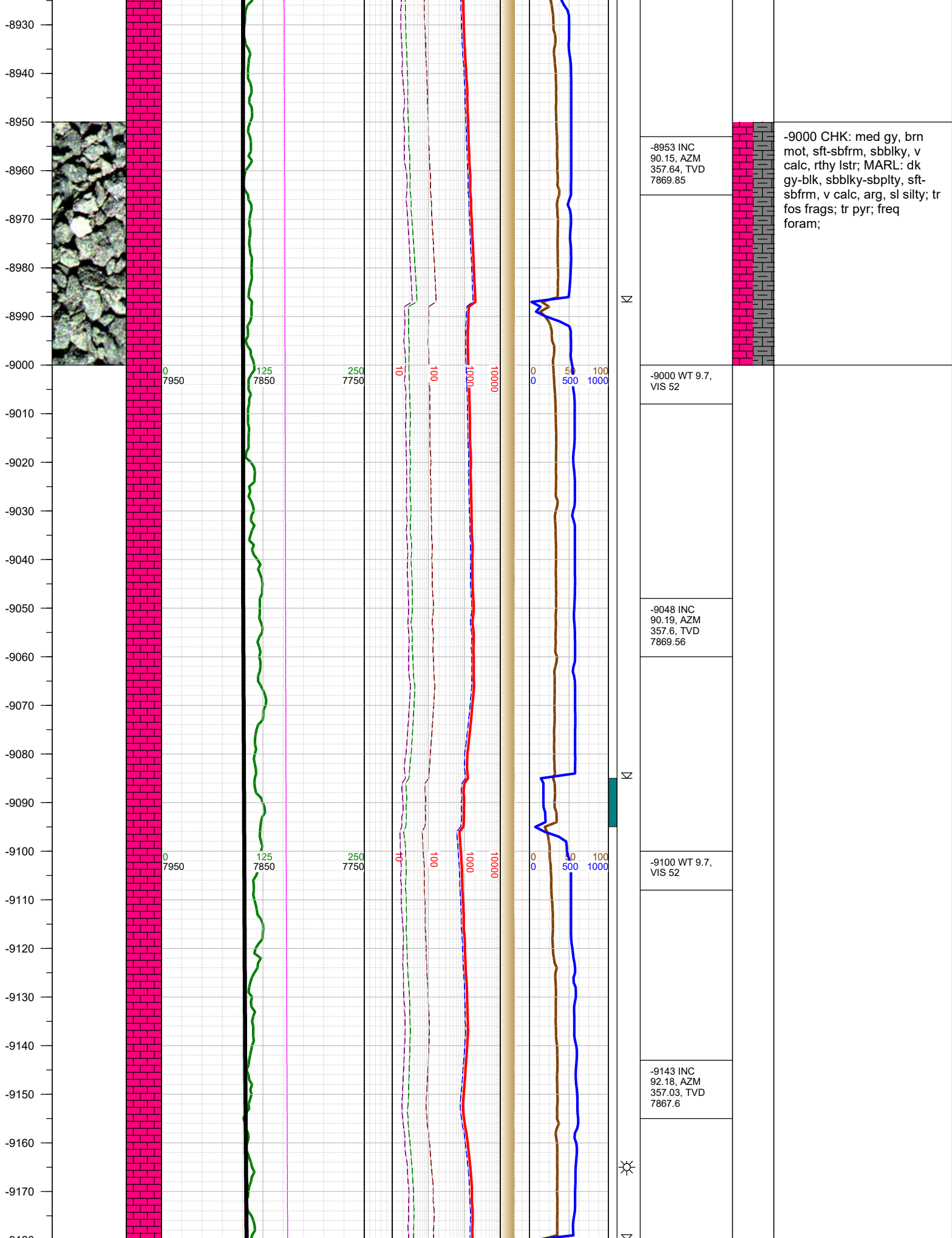


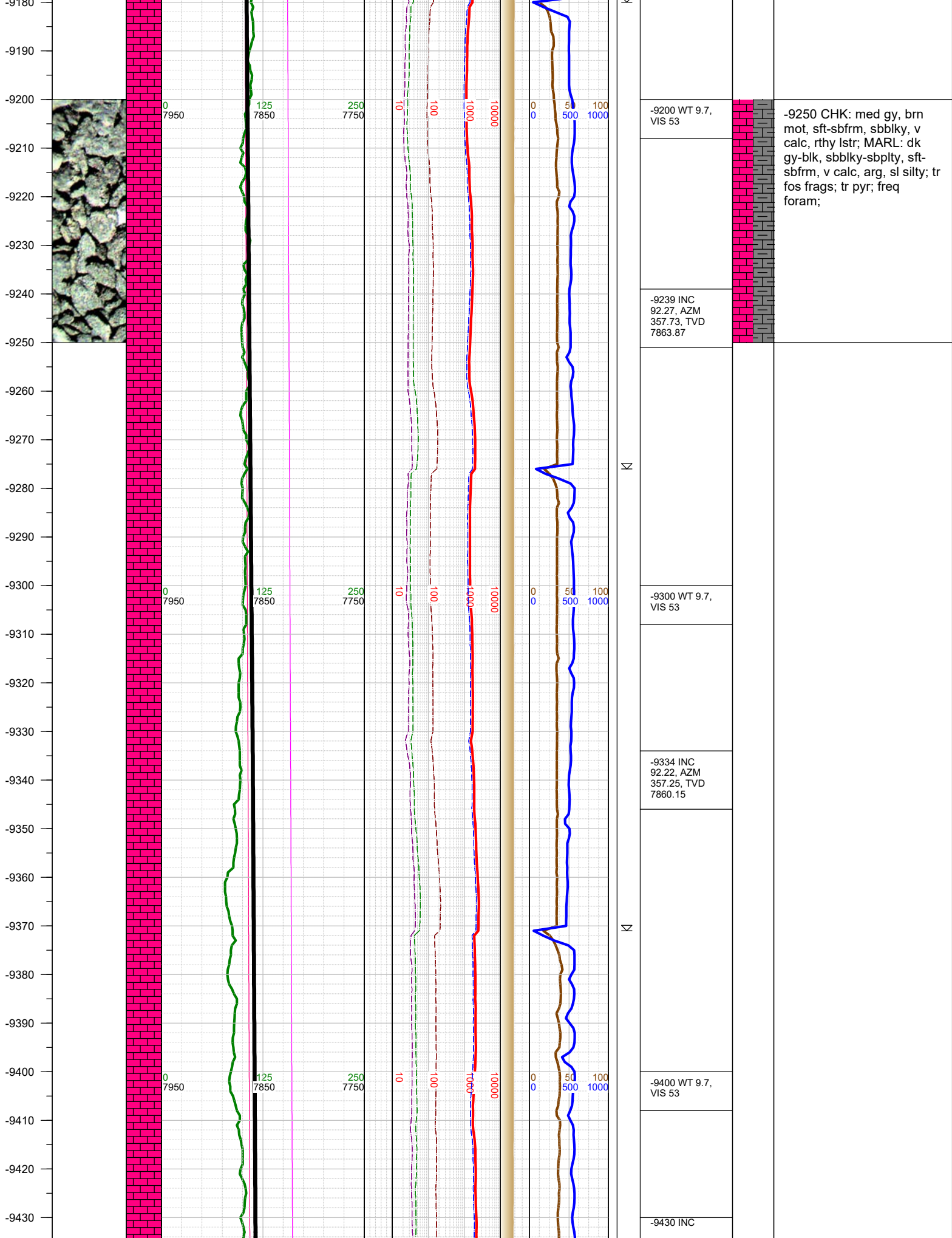


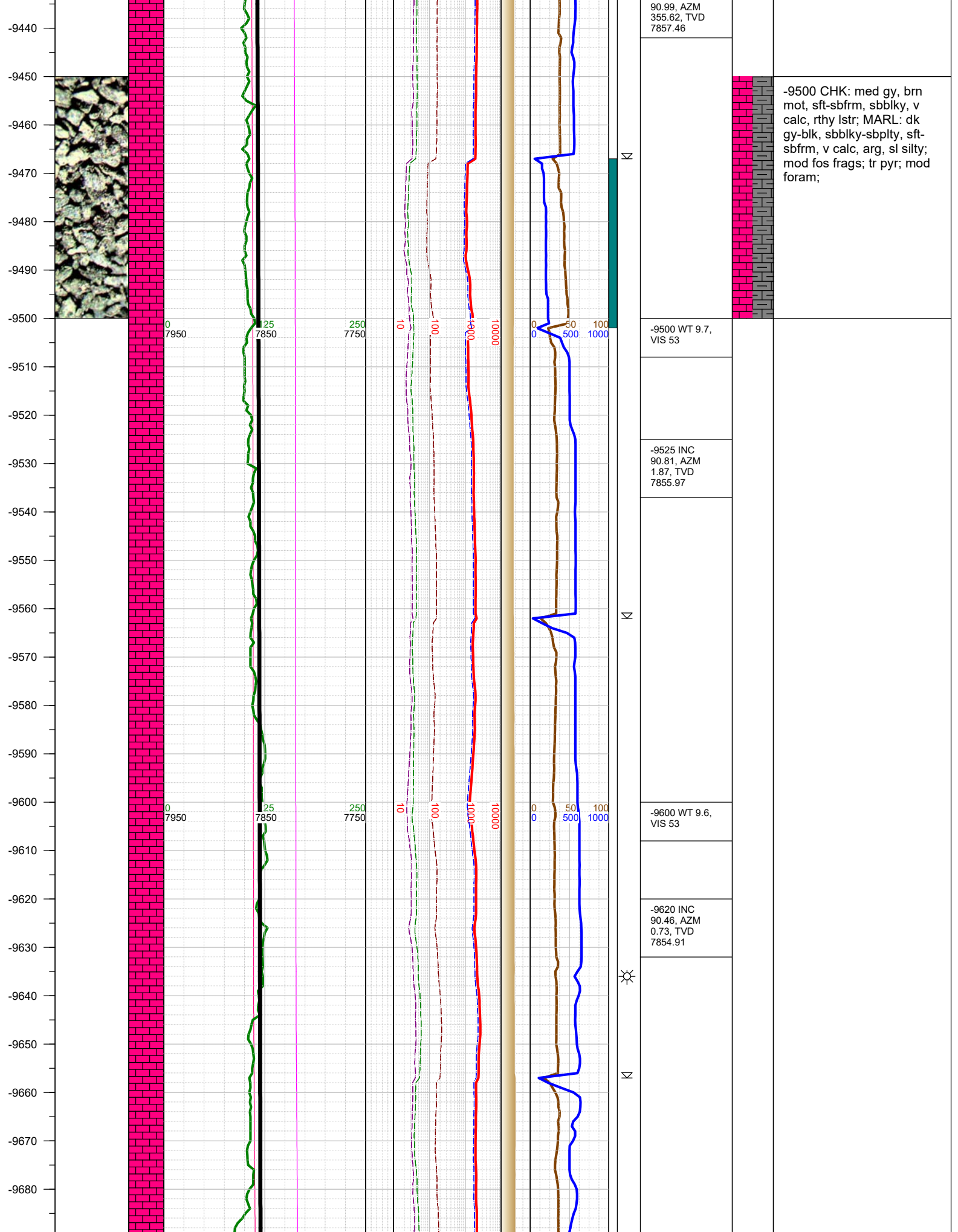




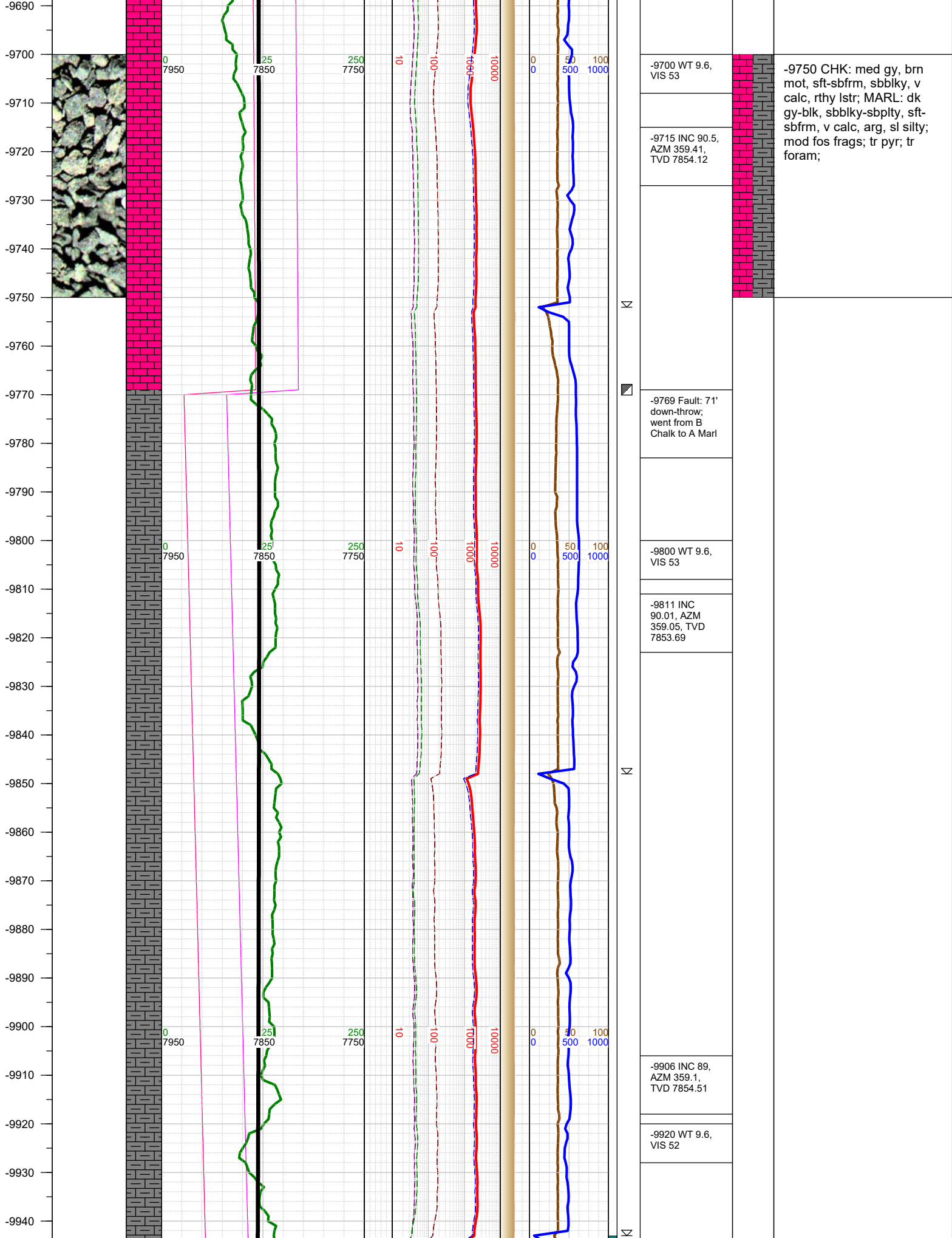




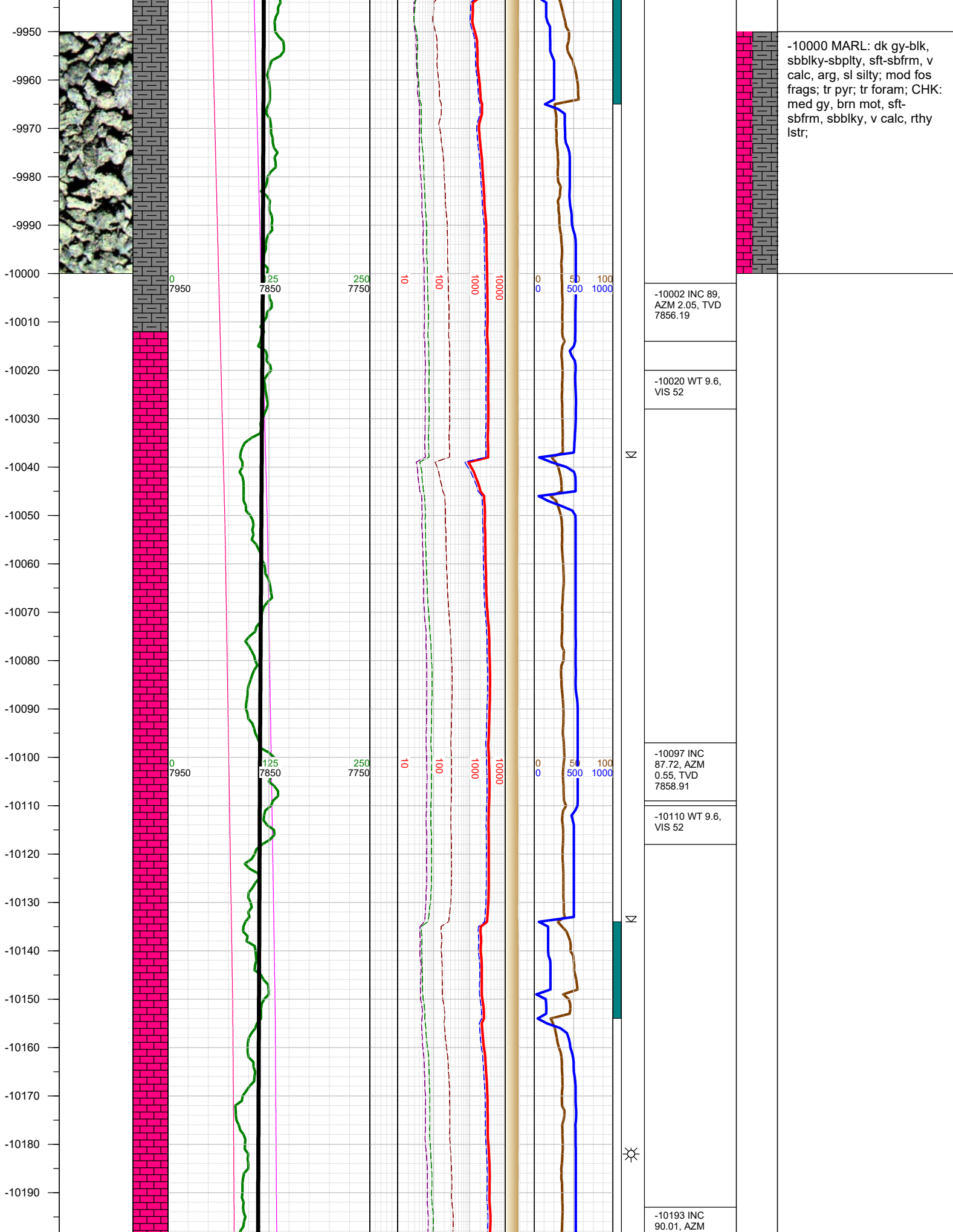


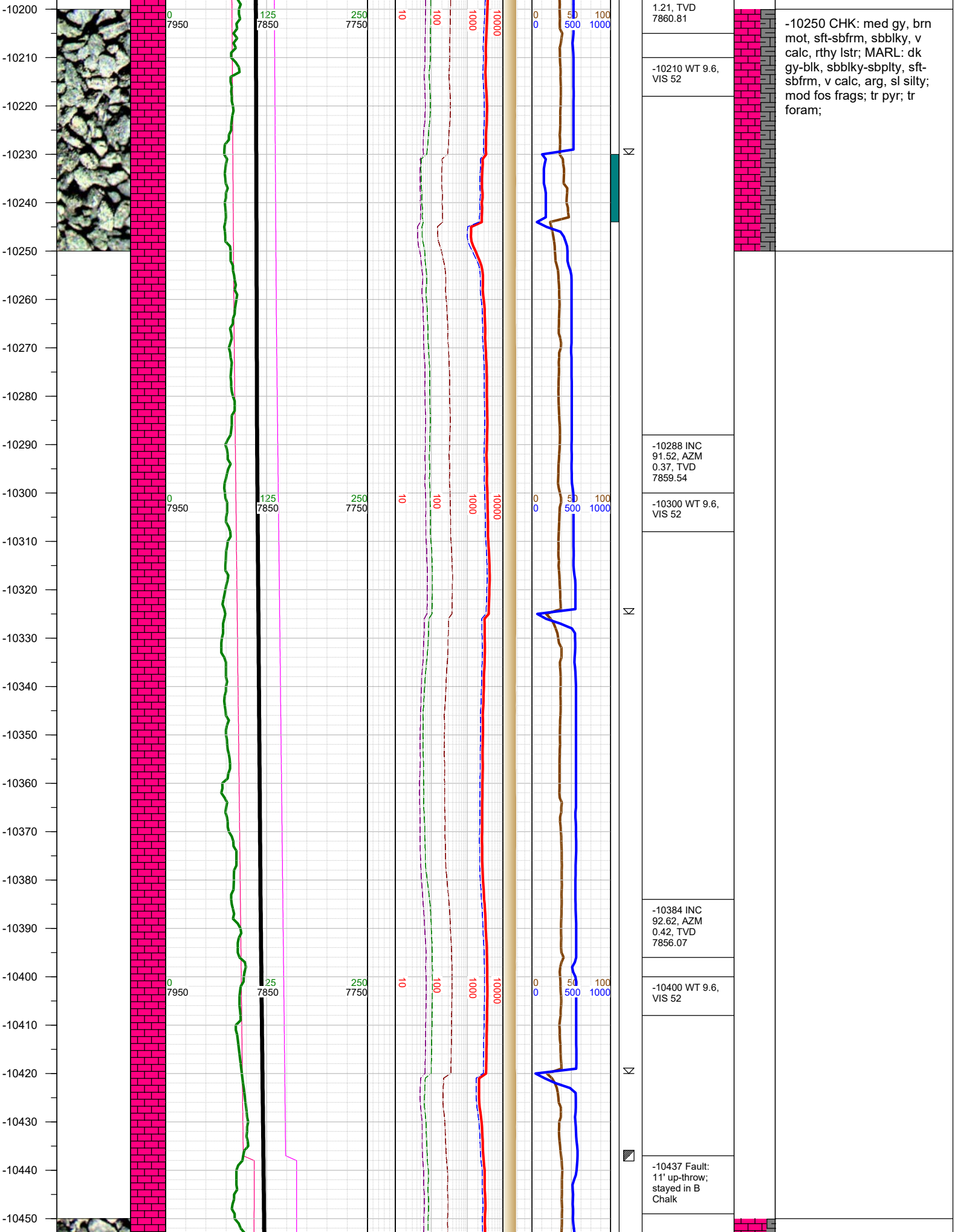


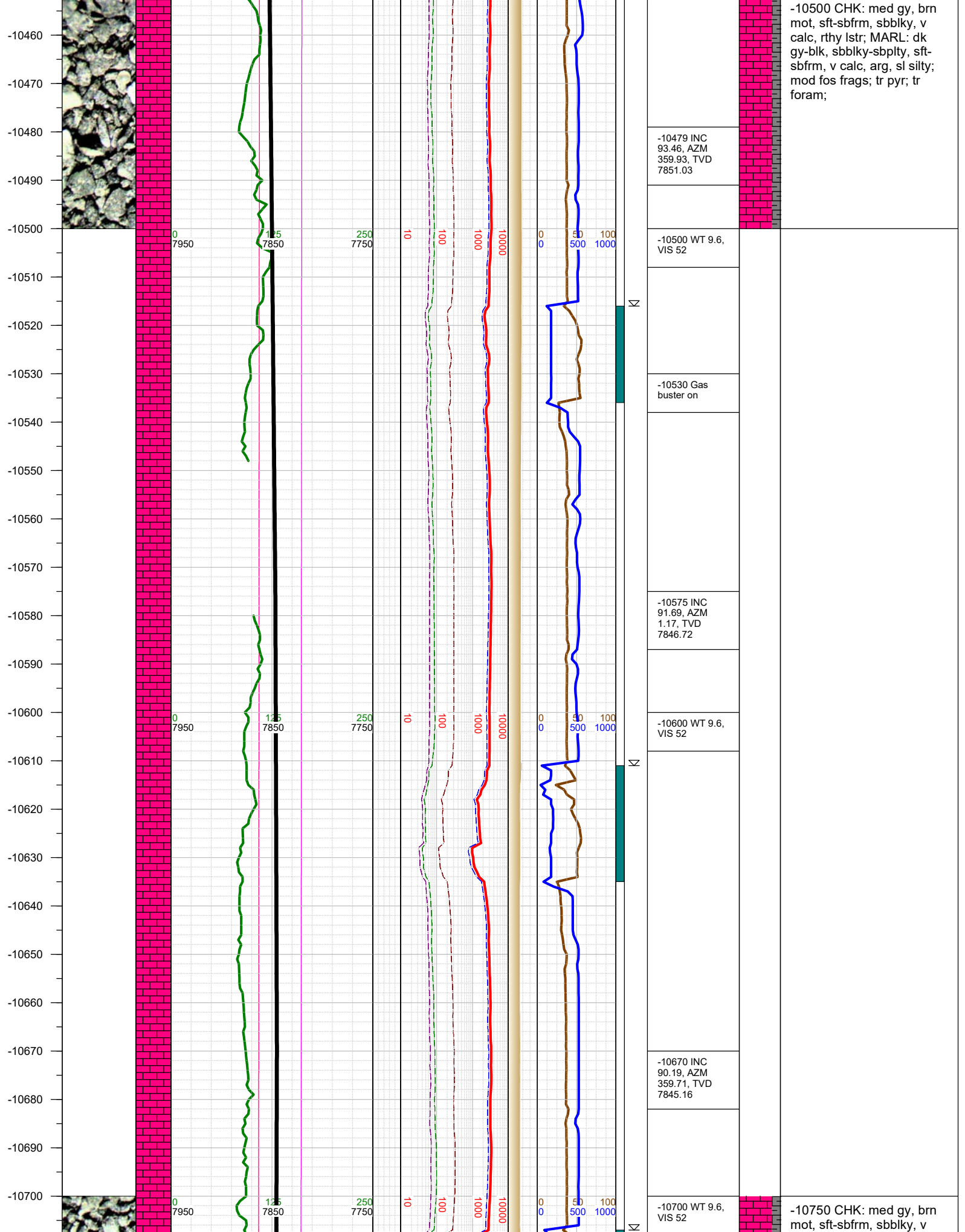




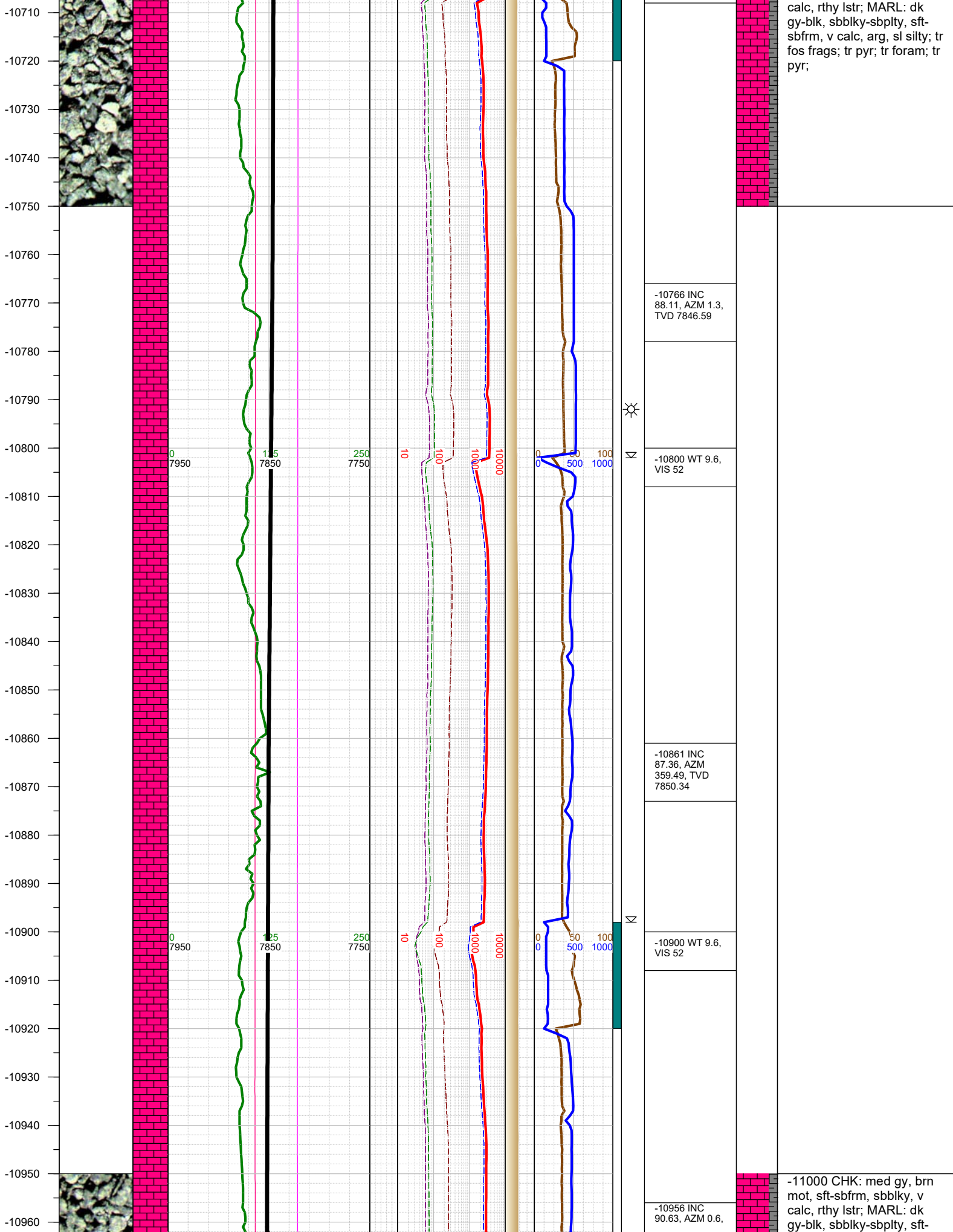












calc, rthy lstr; MARL: dk  
gy-blk, sbbiky-sbplty, sft-  
sbfrm, v calc, arg, sl silty; tr  
fos frags; tr pyr; tr foram; tr  
pyr;

-10766 INC  
88.11, AZM 1.3,  
TVD 7846.59

-10800 WT 9.6,  
VIS 52

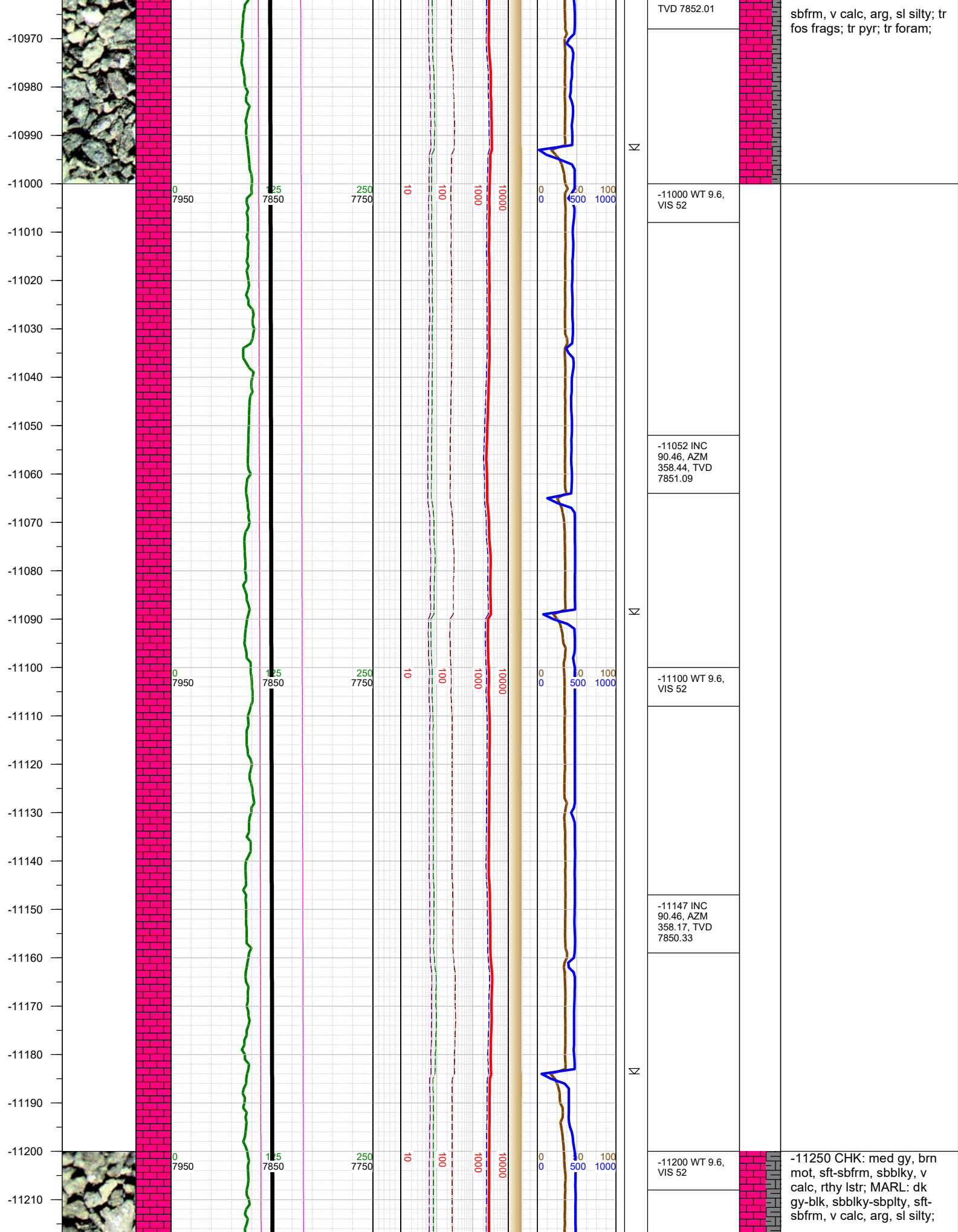
-10861 INC  
87.36, AZM  
359.49, TVD  
7850.34

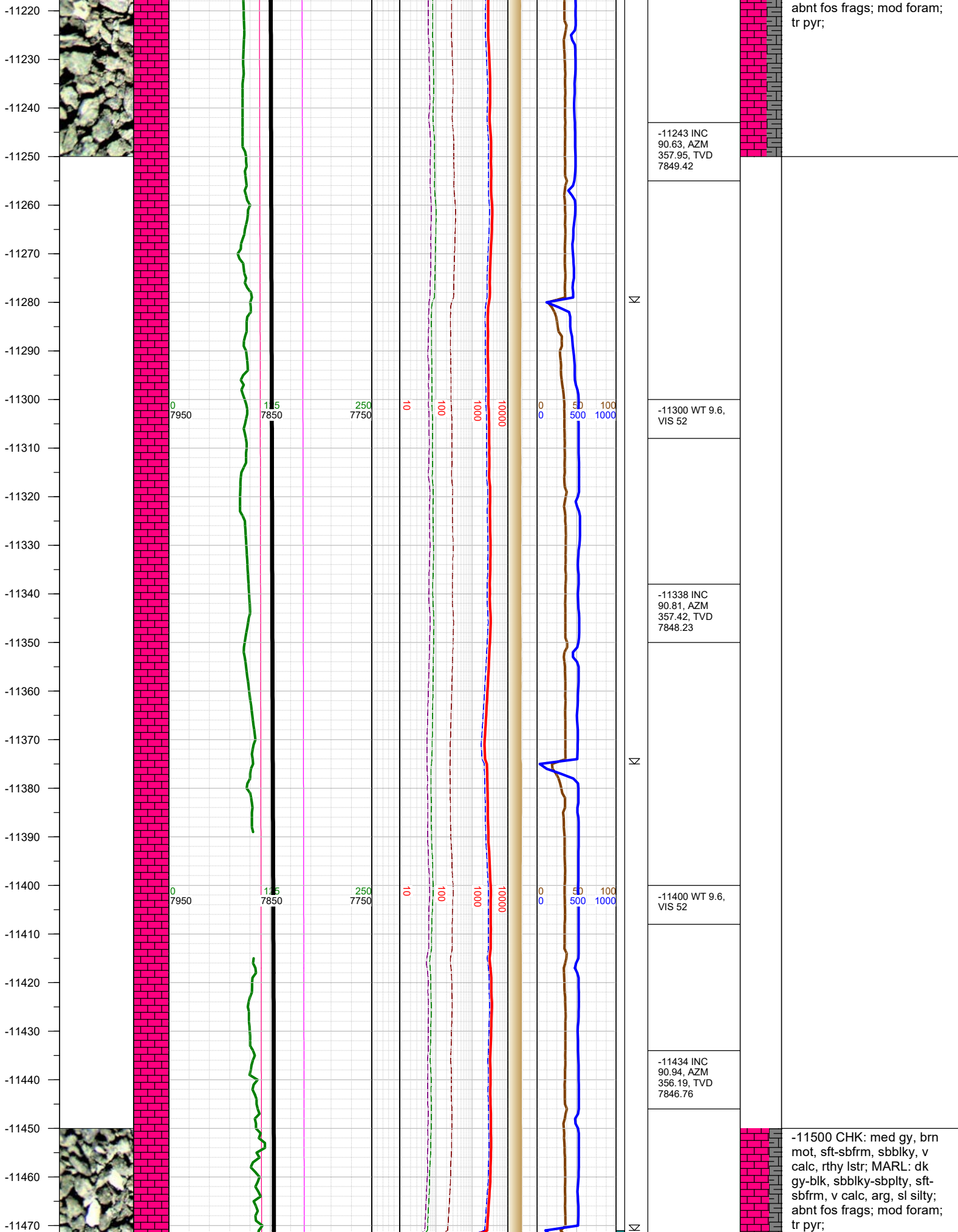
-10900 WT 9.6,  
VIS 52

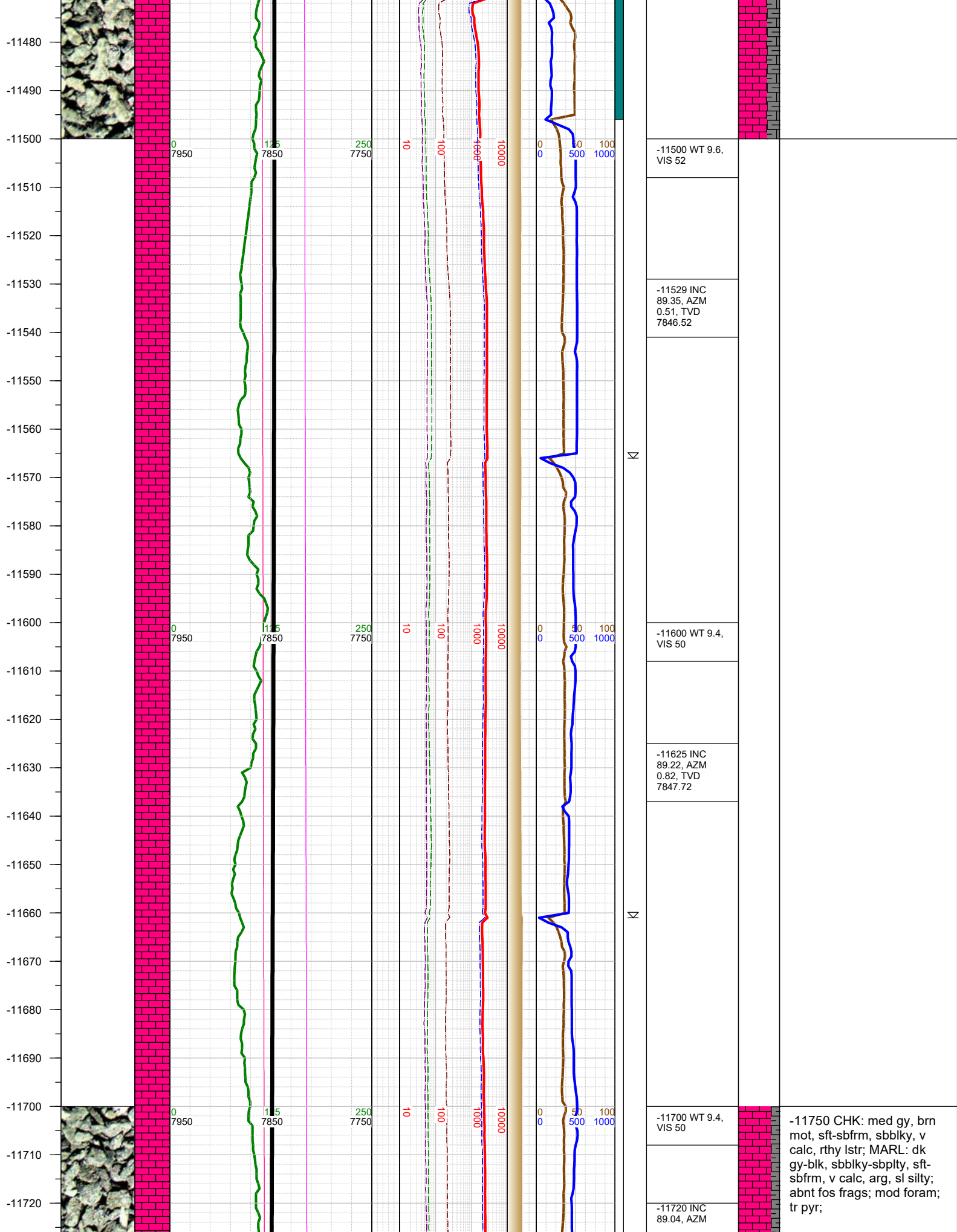
-10956 INC  
90.63, AZM 0.6,

-11000 CHK: med gy, brn  
mot, sft-sbfrm, sbbiky, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbbiky-sbplty, sft-

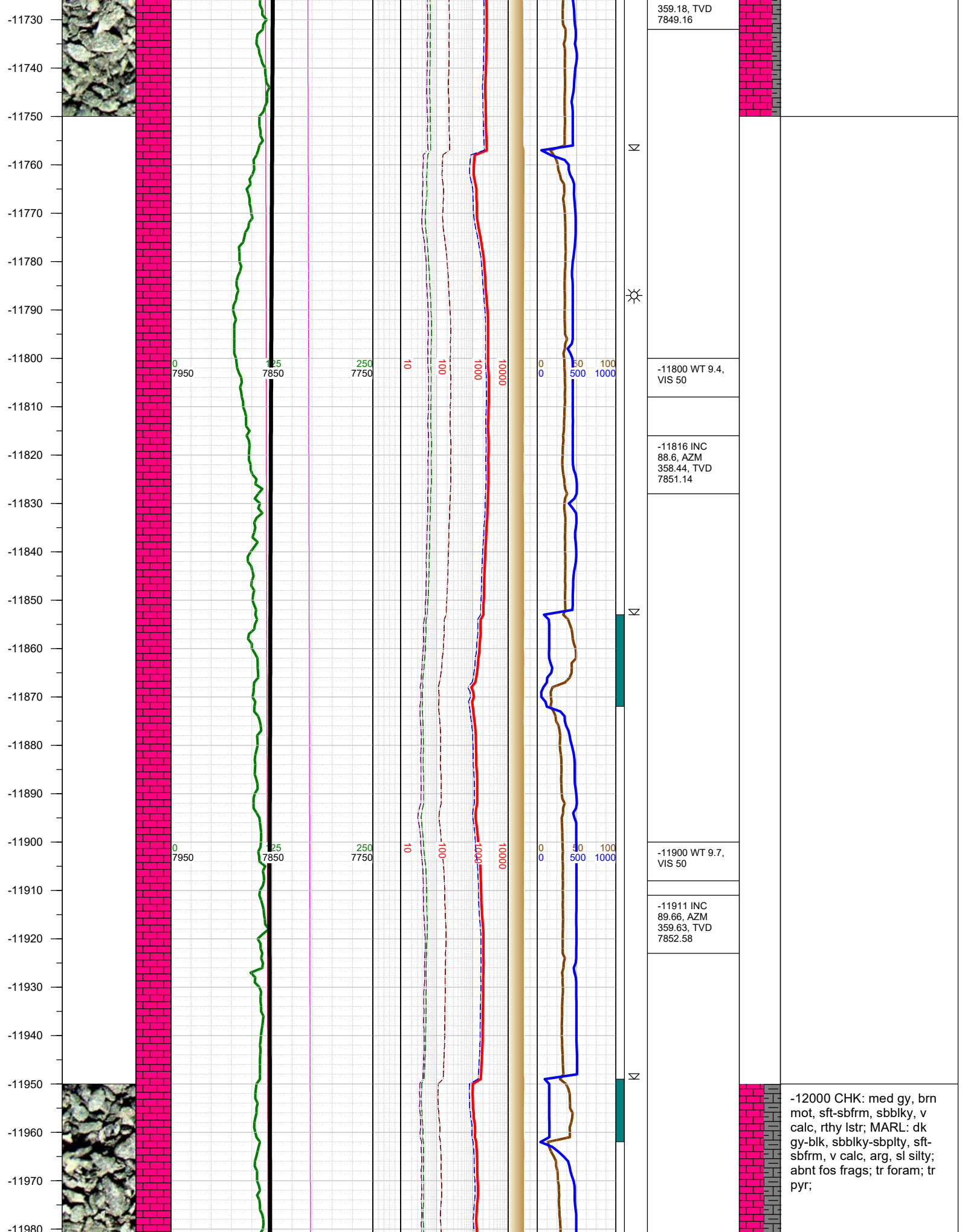


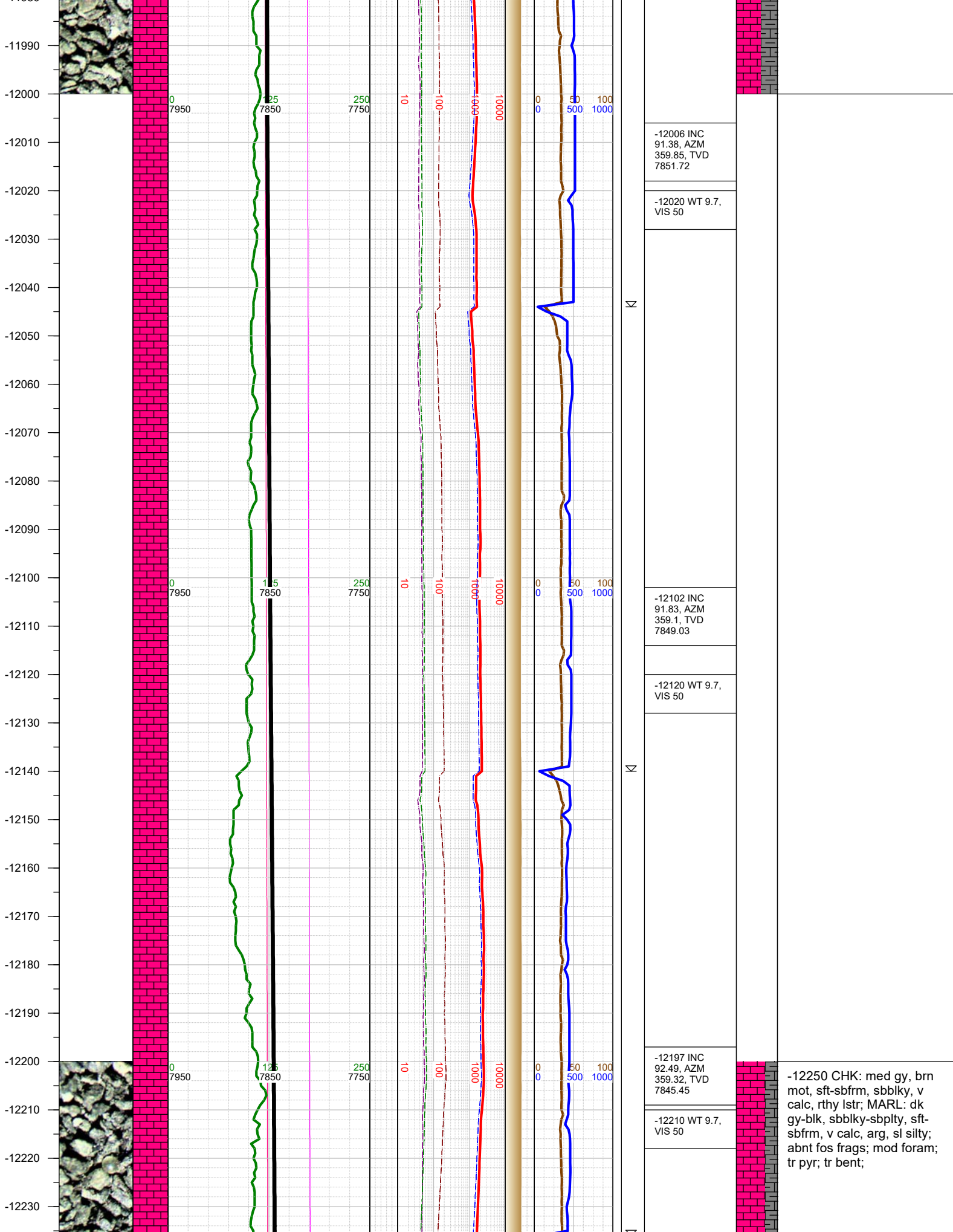












-12006 INC  
91.38, AZM  
359.85, TVD  
7851.72

-12020 WT 9.7,  
VIS 50

-12102 INC  
91.83, AZM  
359.1, TVD  
7849.03

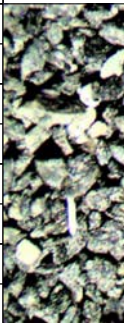
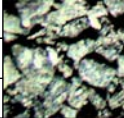
-12120 WT 9.7,  
VIS 50

-12197 INC  
92.49, AZM  
359.32, TVD  
7845.45

-12210 WT 9.7,  
VIS 50

-12250 CHK: med gy, brn  
mot, sft-sbfrm, sbbiky, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbbiky-sbplty, sft-  
sbfrm, v calc, arg, sl silty;  
abnt fos frags; mod foram;  
tr pyr; tr bent;

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7750

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1000



-12293 INC  
90.59, AZM 0.2,  
TVD 7842.87

-12310 WT 9.7,  
VIS 49

-12388 INC  
91.07, AZM 0.9,  
TVD 7841.49

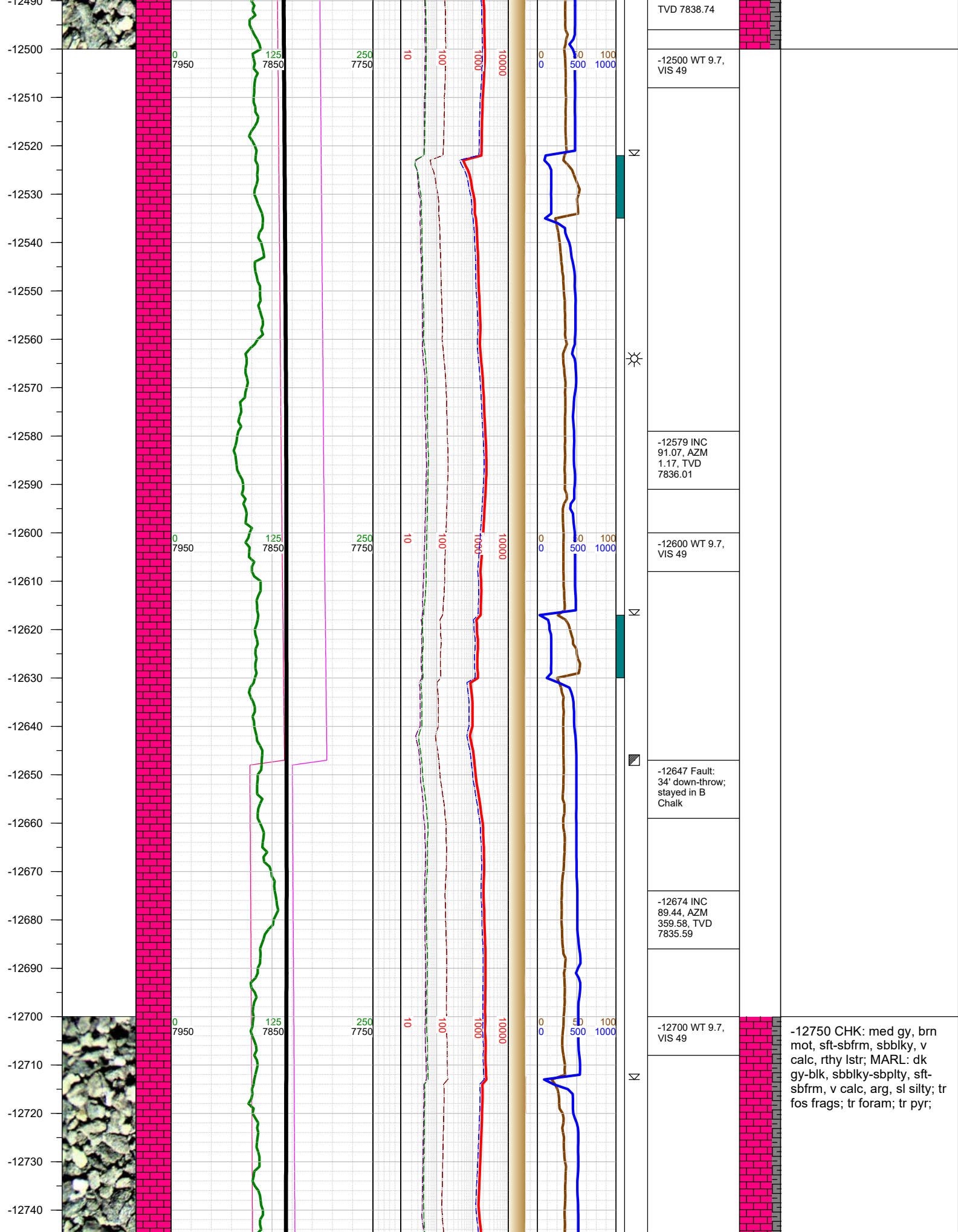
-12400 WT 9.7,  
VIS 49



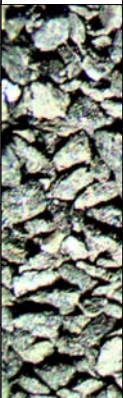
-12500 CHK: med gy, brn  
mot, sft-sbfrm, sbblky, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbblky-sbplty, sft-  
sbfrm, v calc, arg, sl silty;  
abnt fos frags; mod foram;  
tr pyr; tr bent;

-12484 INC  
92.22, AZM 0.6,





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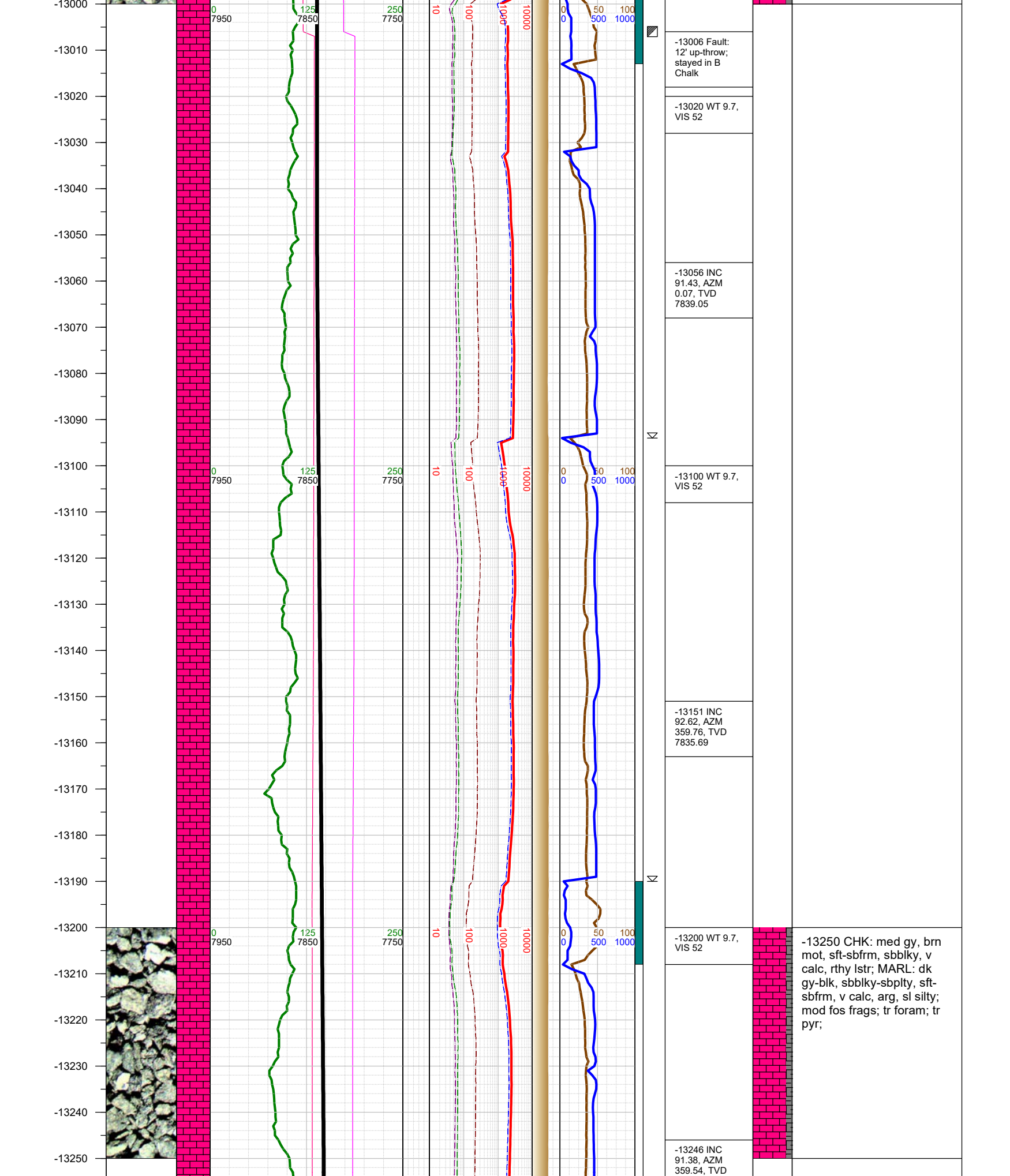
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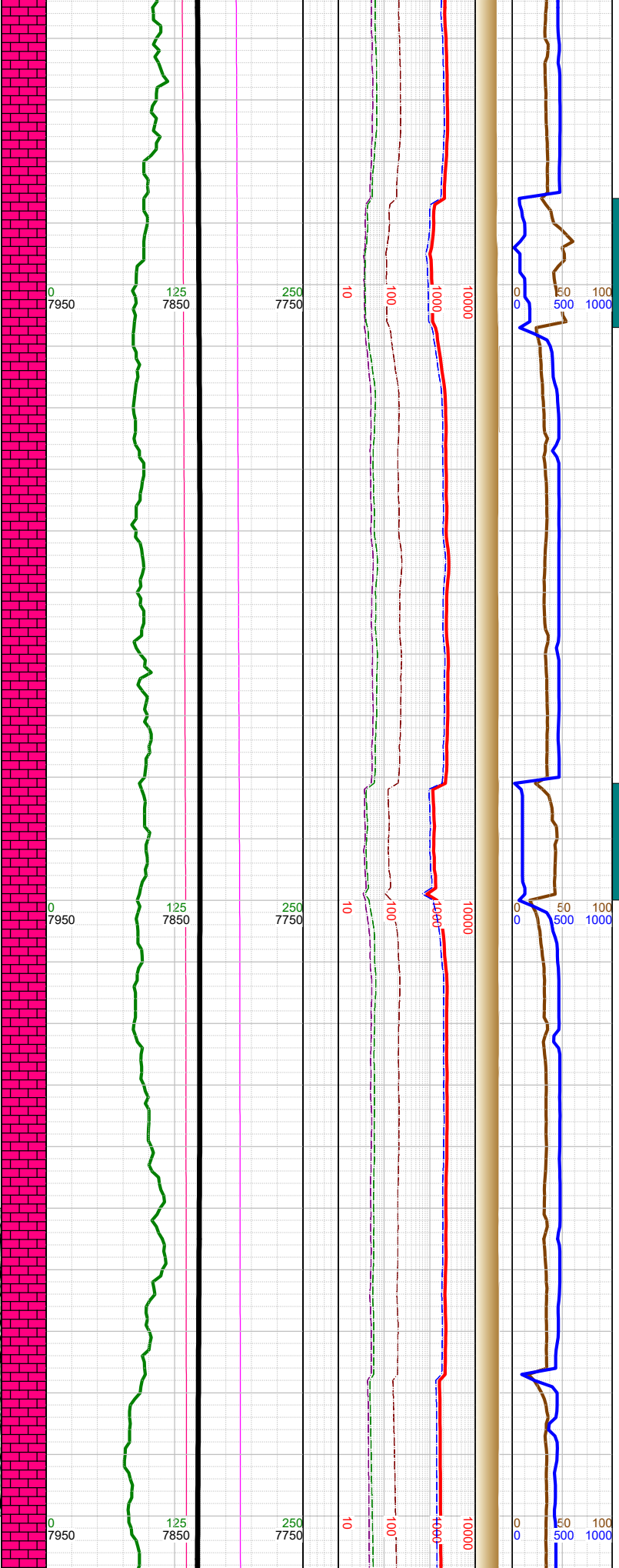
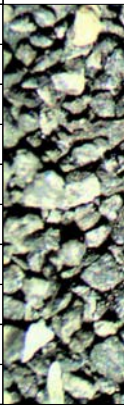
-12769 INC 89.4, AZM 359.58, TVD 7836.55	
-12800 WT 9.7, VIS 52	
-12865 INC 89.17, AZM 359.63, TVD 7837.74	
-12900 WT 9.7, VIS 52	
-12960 INC 88.91, AZM 358.22, TVD 7839.34	-12971 0000 hrs on 4/23/2019

-13000 CHK: med gy, brn  
mot, sft-sbfrm, sbbiky, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbbiky-sbplty, sft-  
sbfrm, v calc, arg, sl silty;  
mod fos frags; tr foram; tr  
pyr;





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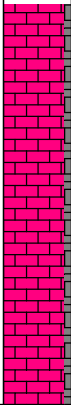


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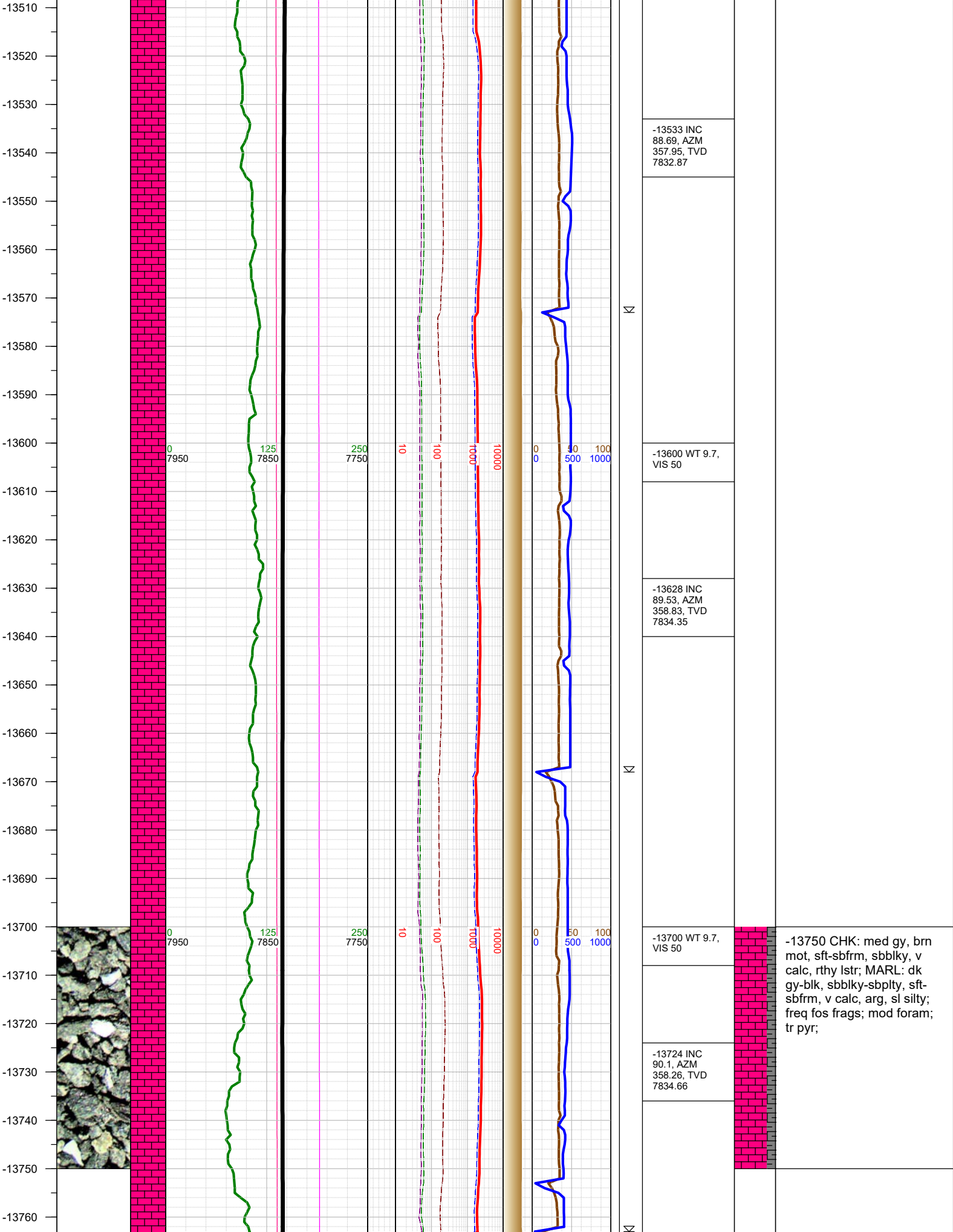
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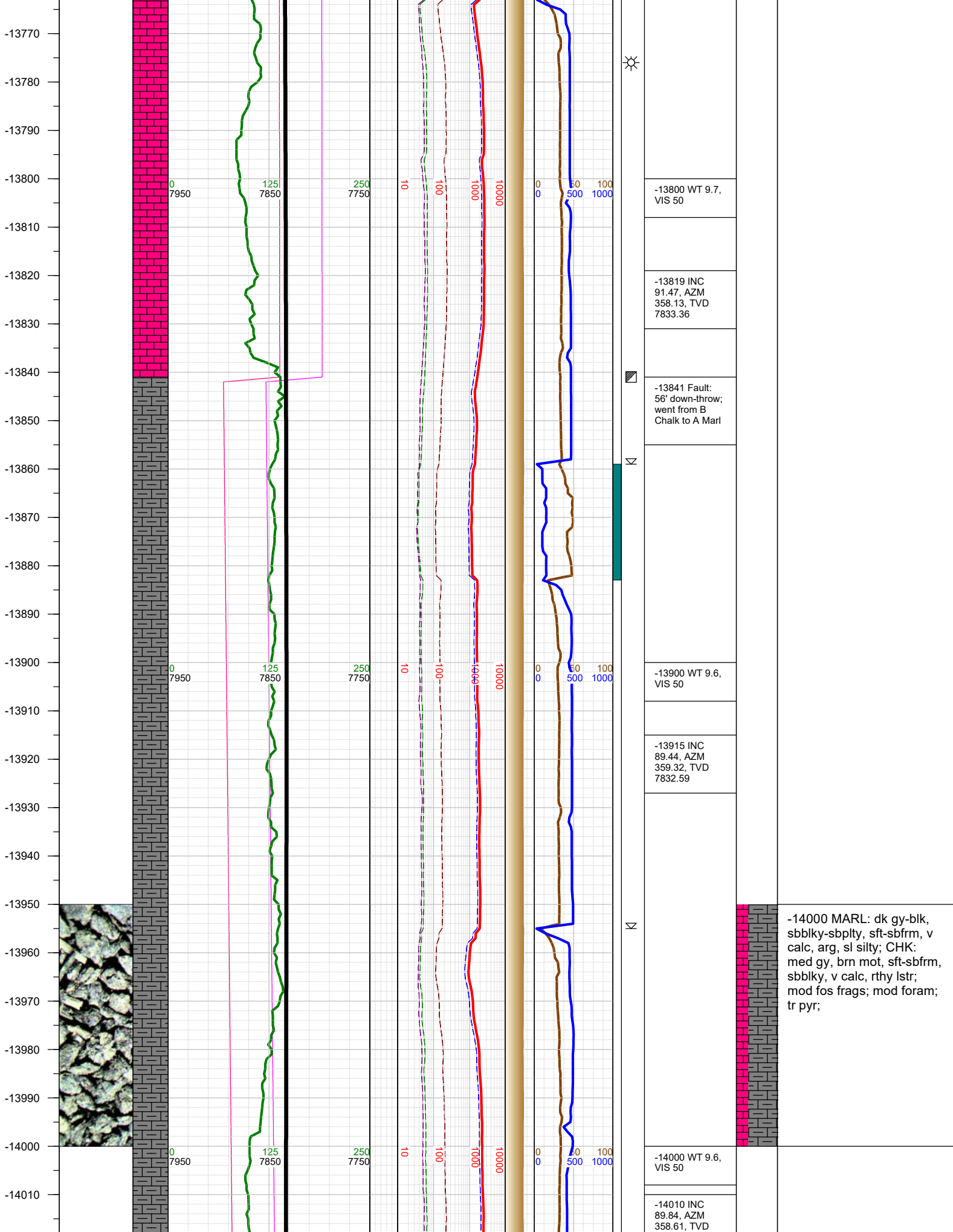
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7832.38
-13300 WT 9.7, VIS 52
-13342 INC 91.16, AZM 359.54, TVD 7830.25
-13400 WT 9.7, VIS 52
-13437 INC 88.51, AZM 359.23, TVD 7830.53
-13500 WT 9.7, VIS 50

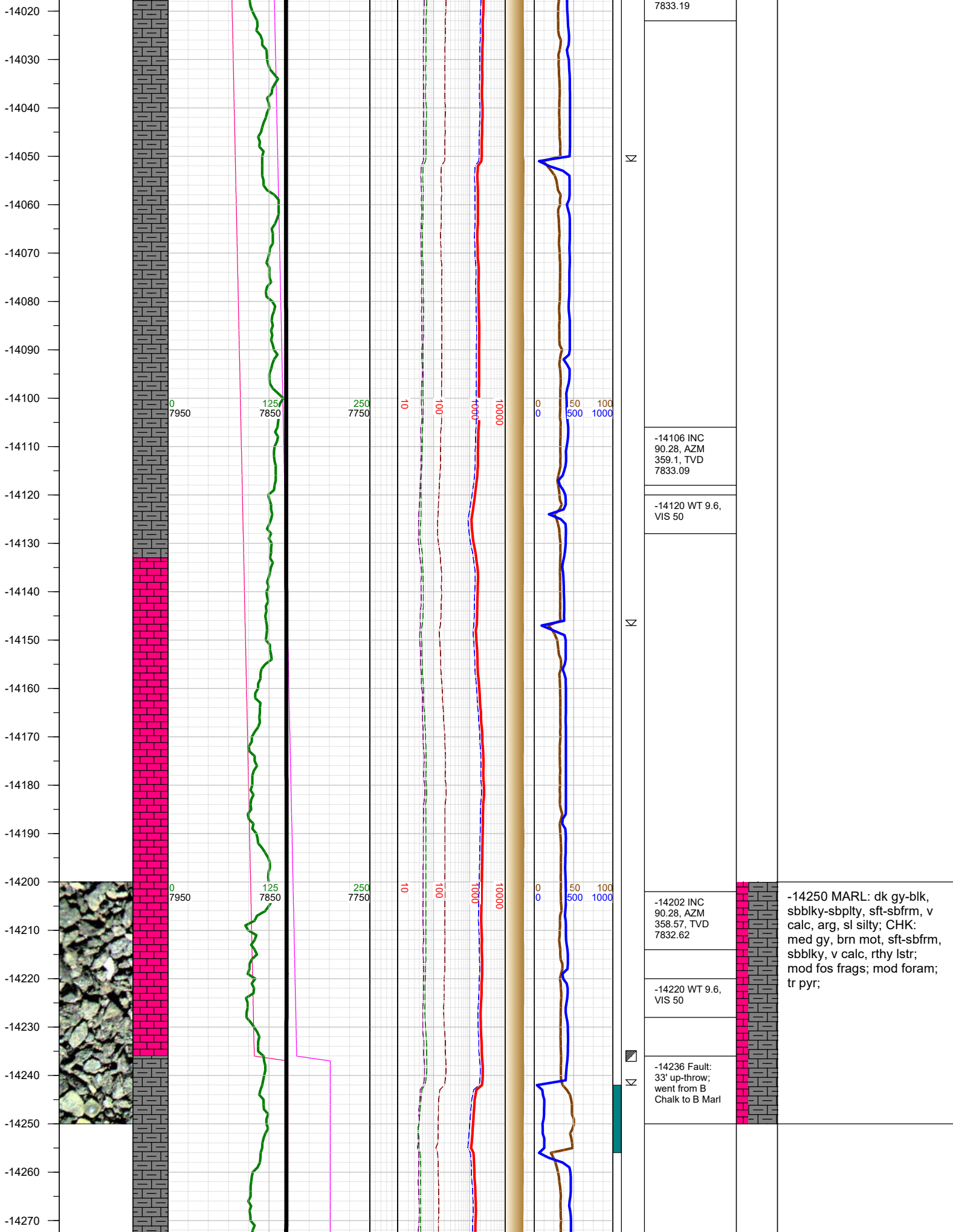


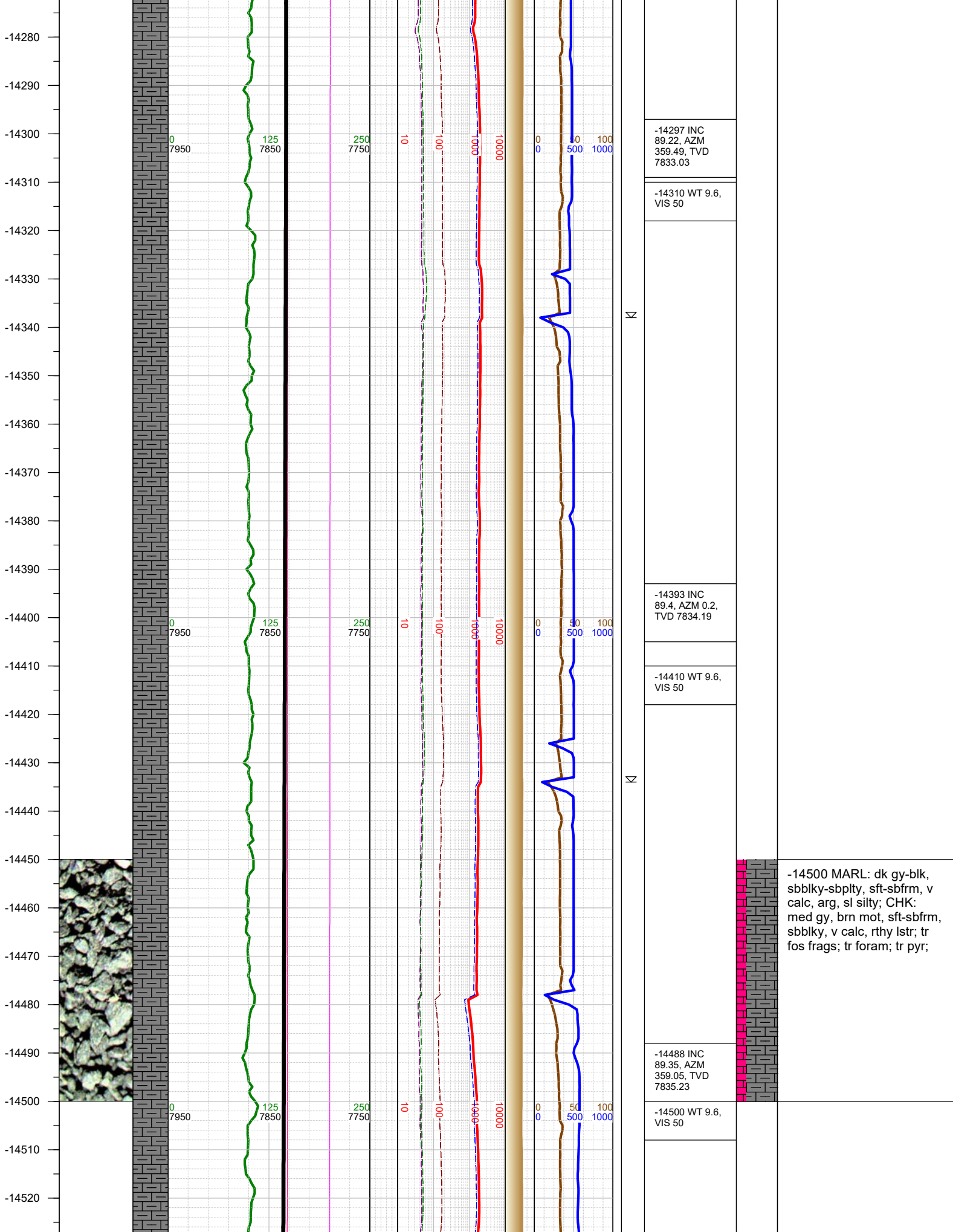
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mot, sft-sbfrm, sbbly, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbbly-sbply, sft-  
sbfrm, v calc, arg, sl silty;  
mod fos frags; tr foram; tr  
pyr;

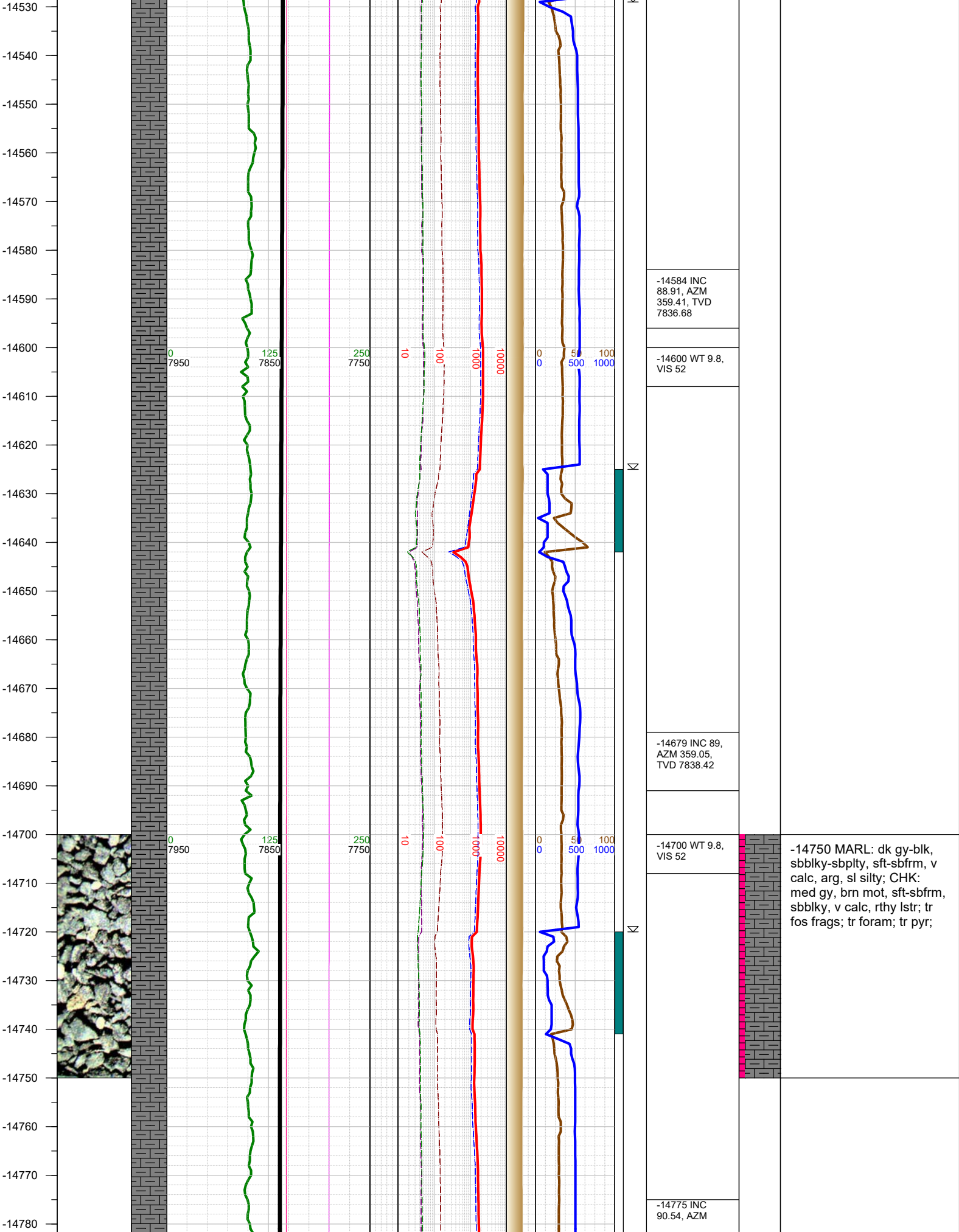




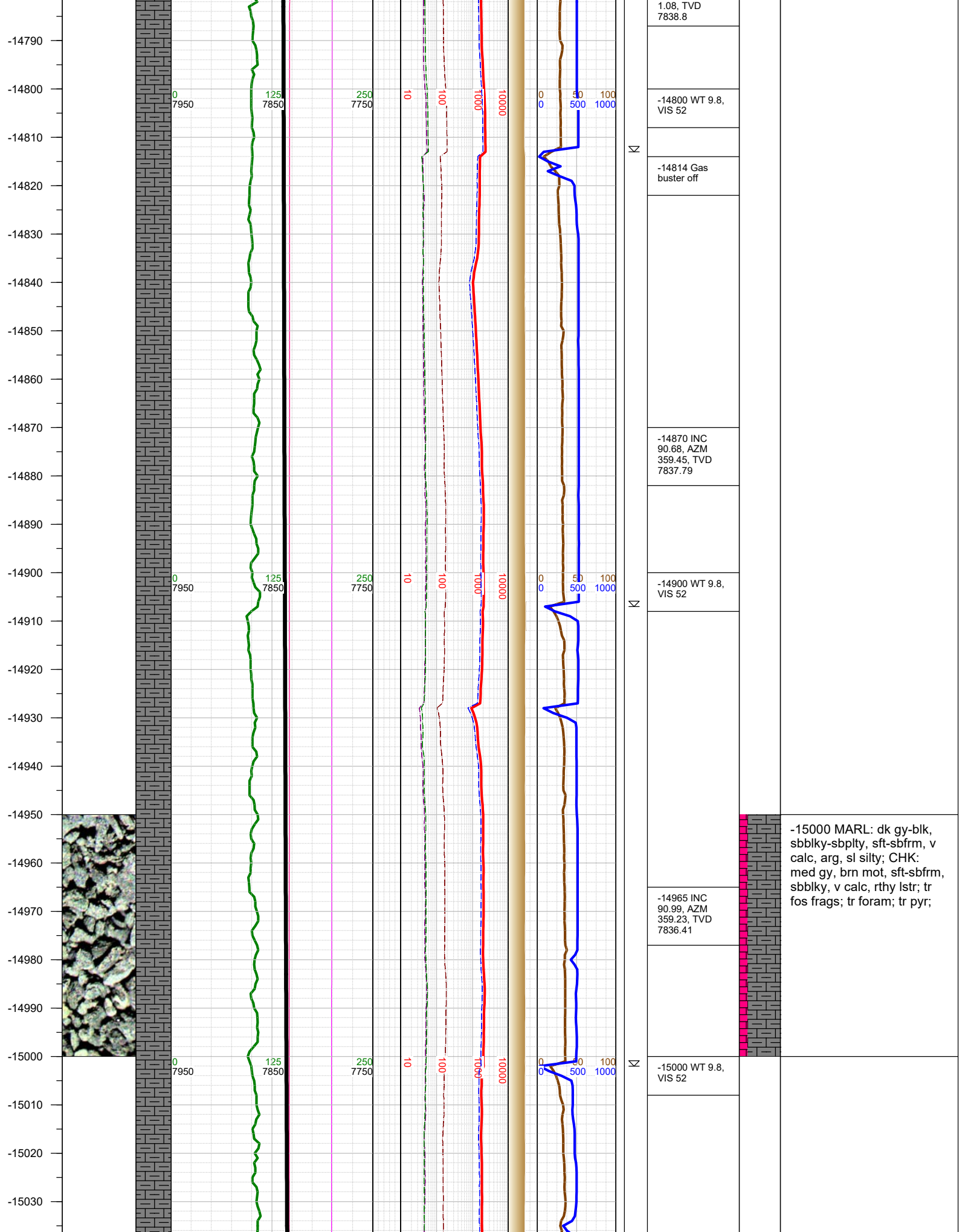


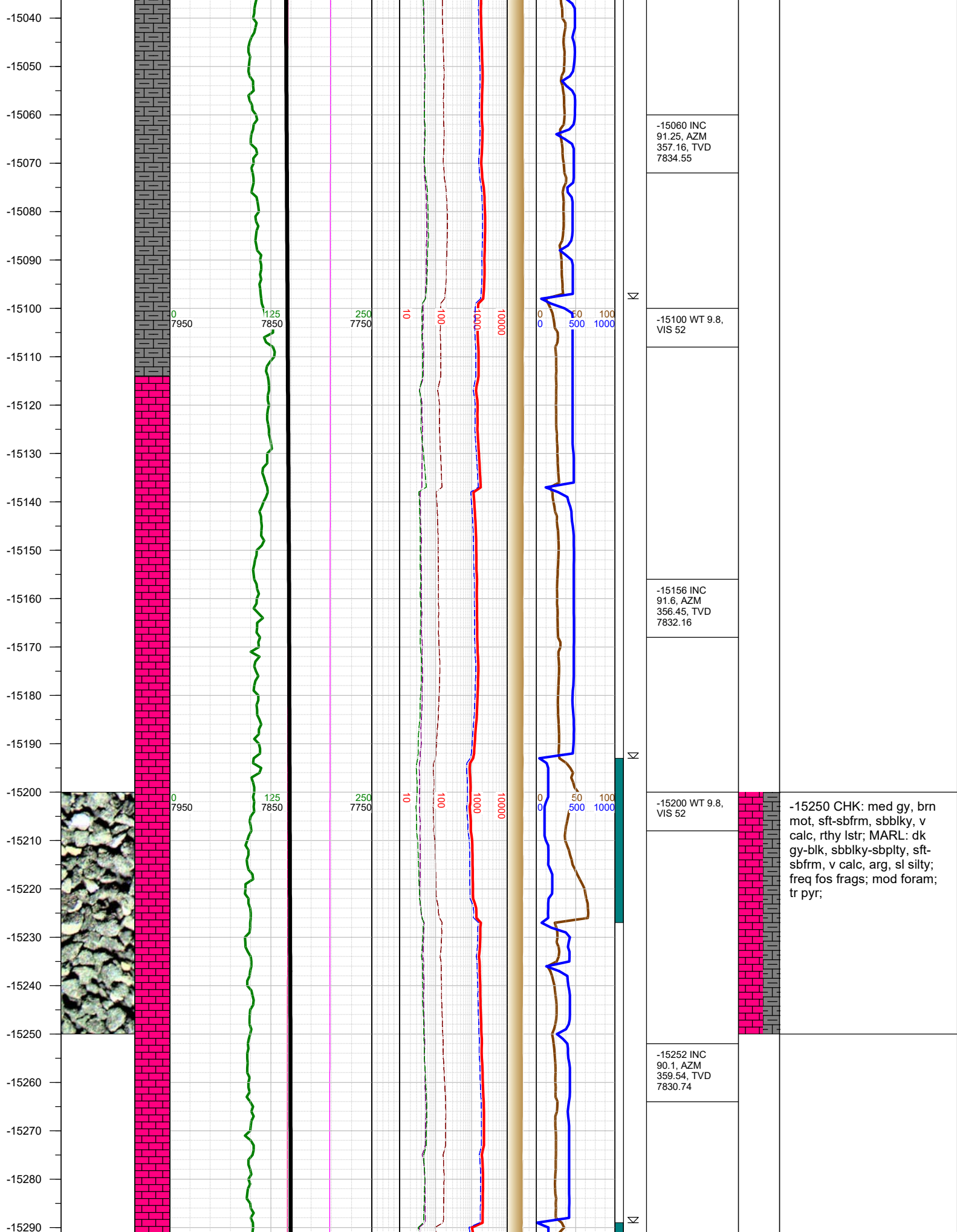


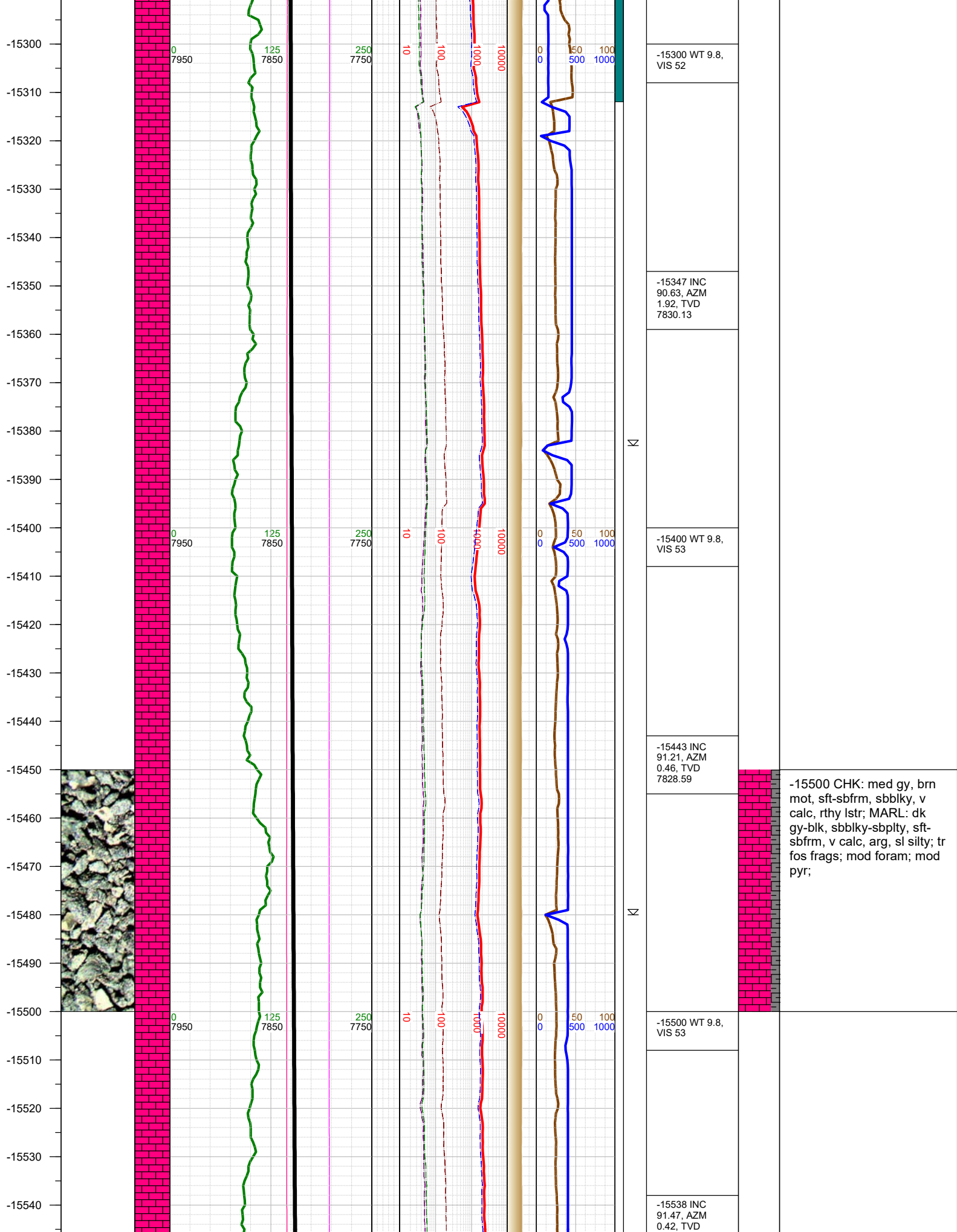




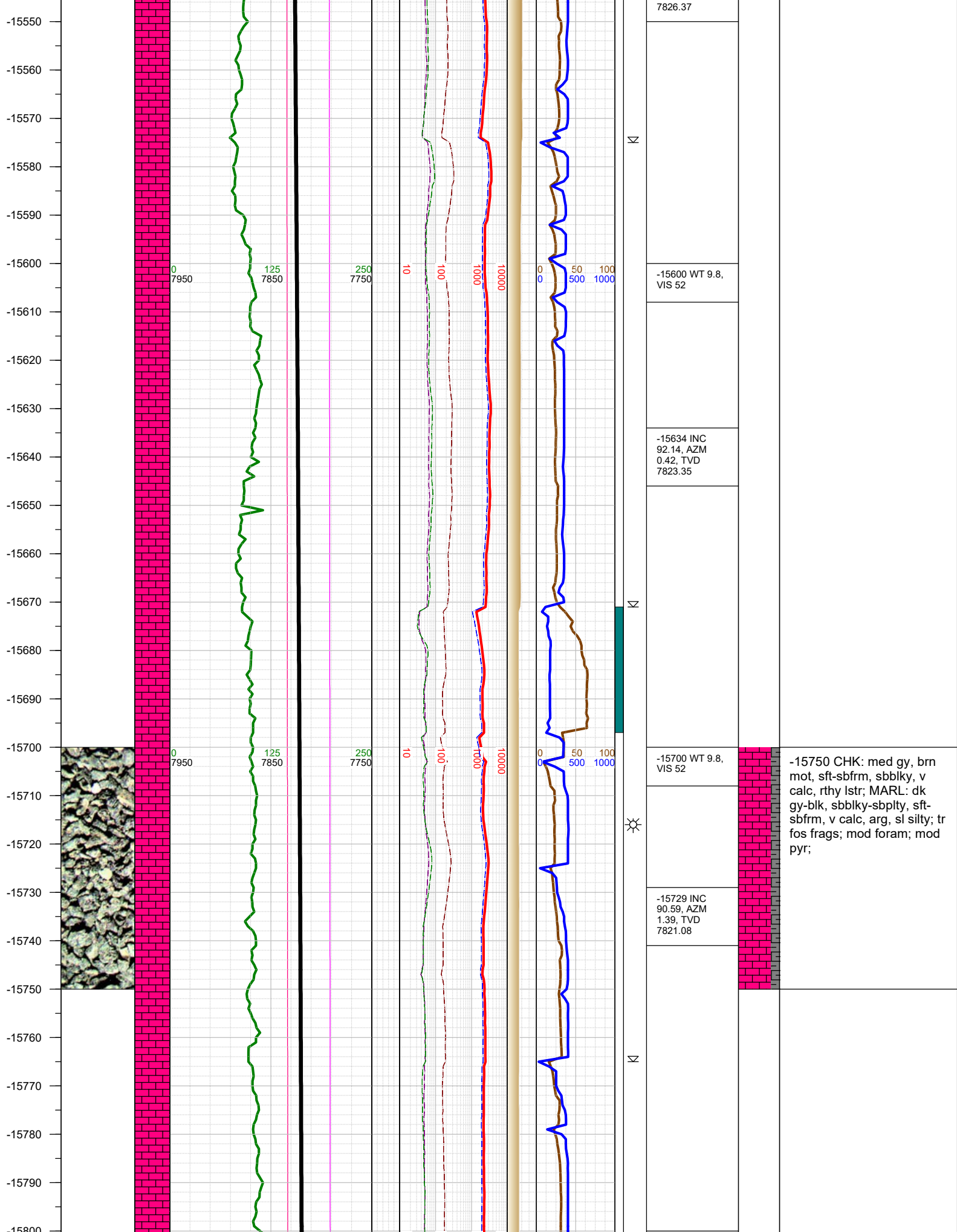


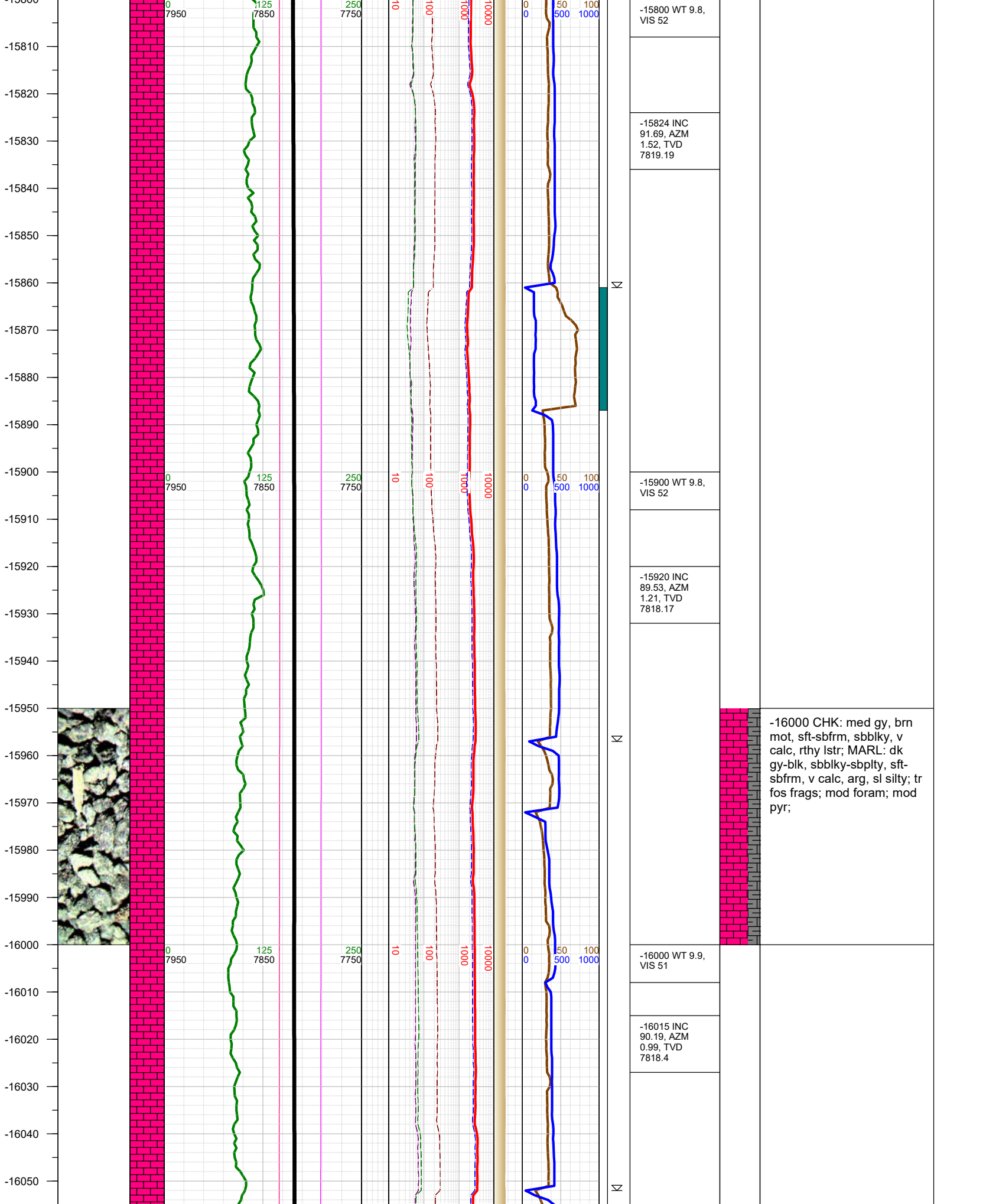




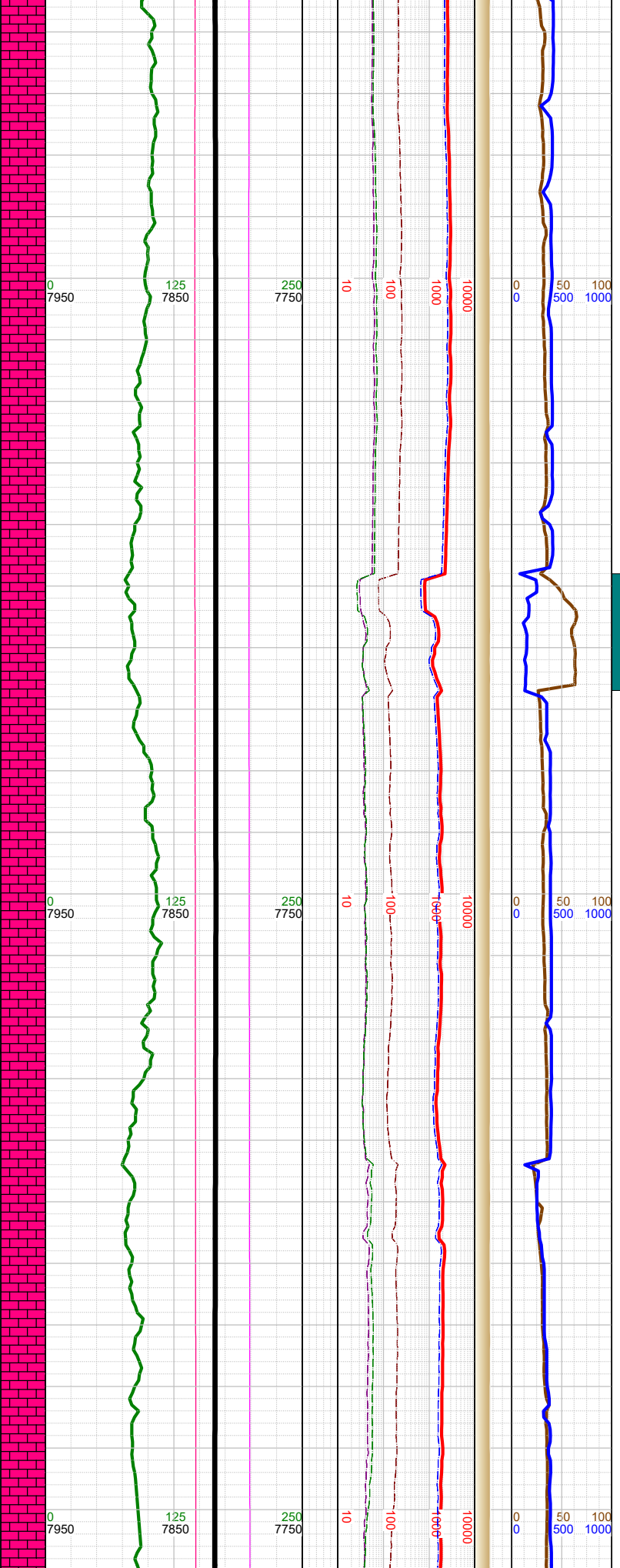








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-16100 WT 9.9,  
VIS 51

-16111 INC  
90.94, AZM  
0.73, TVD  
7817.46

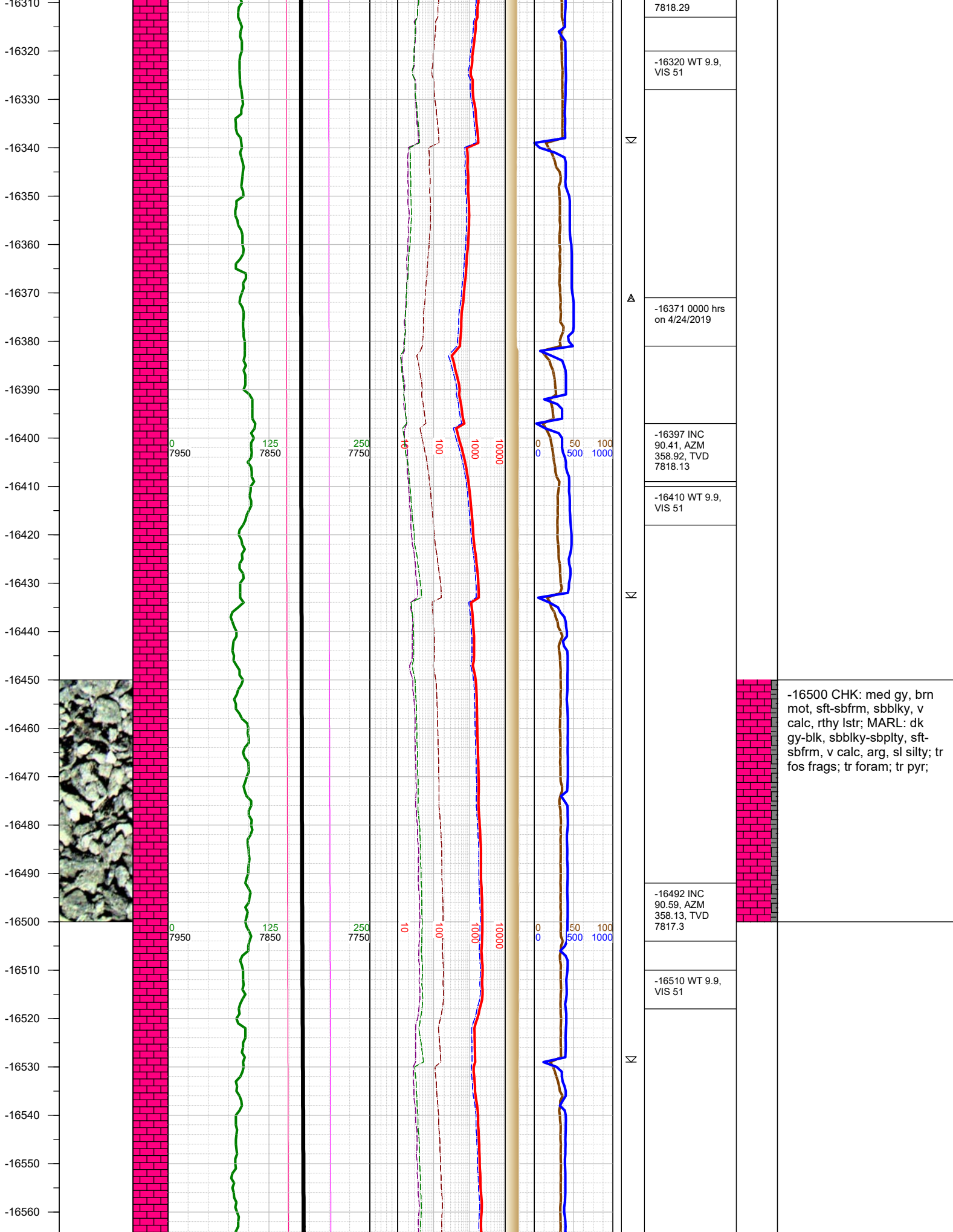
-16206 INC  
89.13, AZM  
359.89, TVD  
7817.4

-16220 WT 9.9,  
VIS 51

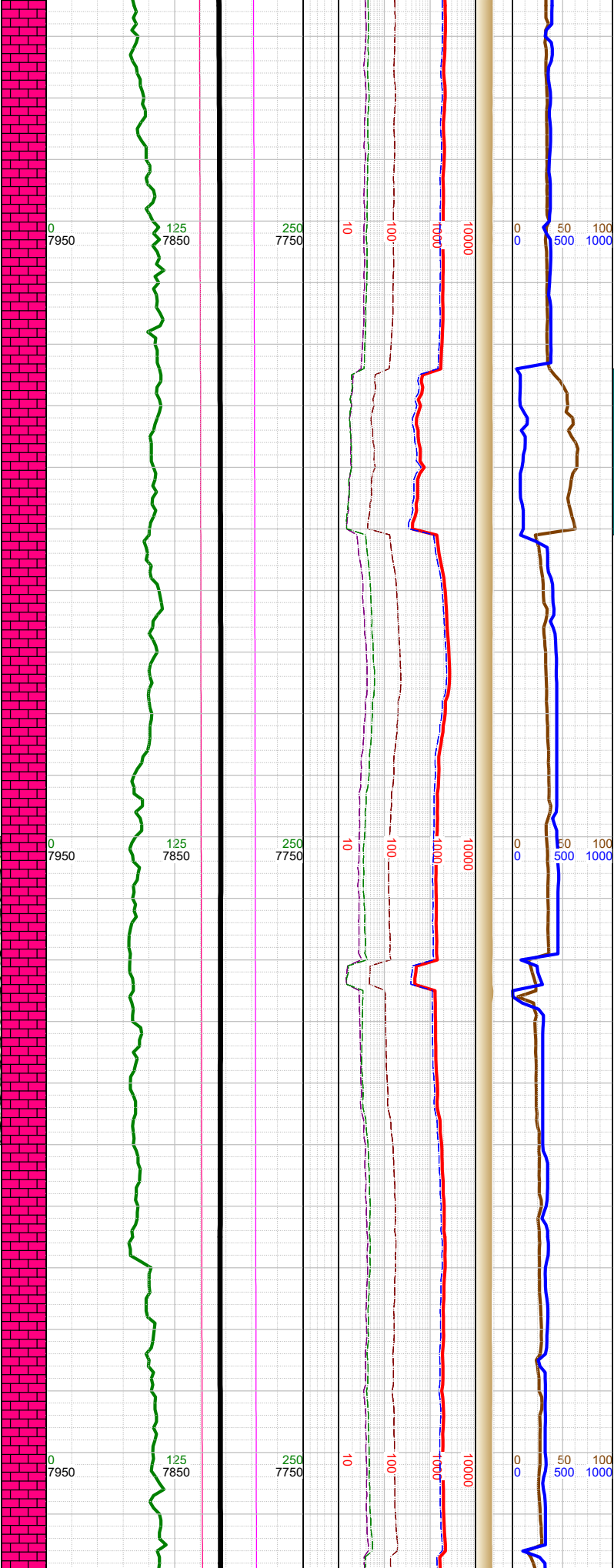
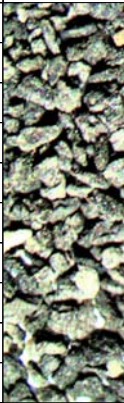
-16301 INC  
89.79, AZM  
0.07, TVD

-16250 CHK: med gy, brn  
mot, sft-sbfrm, sbblky, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbblky-sbplty, sft-  
sbfrm, v calc, arg, sl silty; tr  
fos frags; tr foram; tr pyr;





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-16588 INC  
91.96, AZM  
358.92, TVD  
7815.16

-16600 WT 10,  
VIS 48

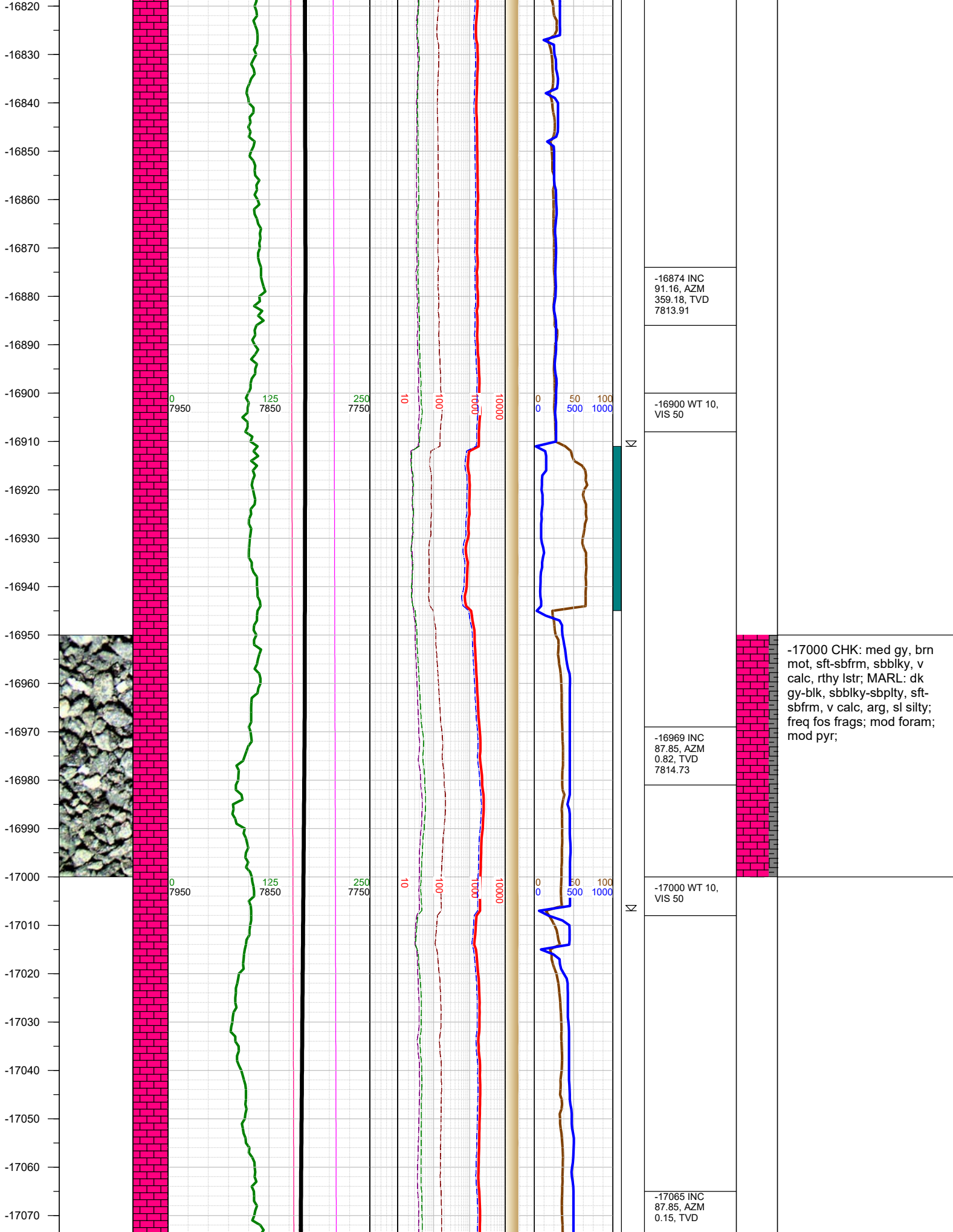
-16683 INC  
89.26, AZM  
0.11, TVD  
7814.15

-16700 WT 10,  
VIS 48

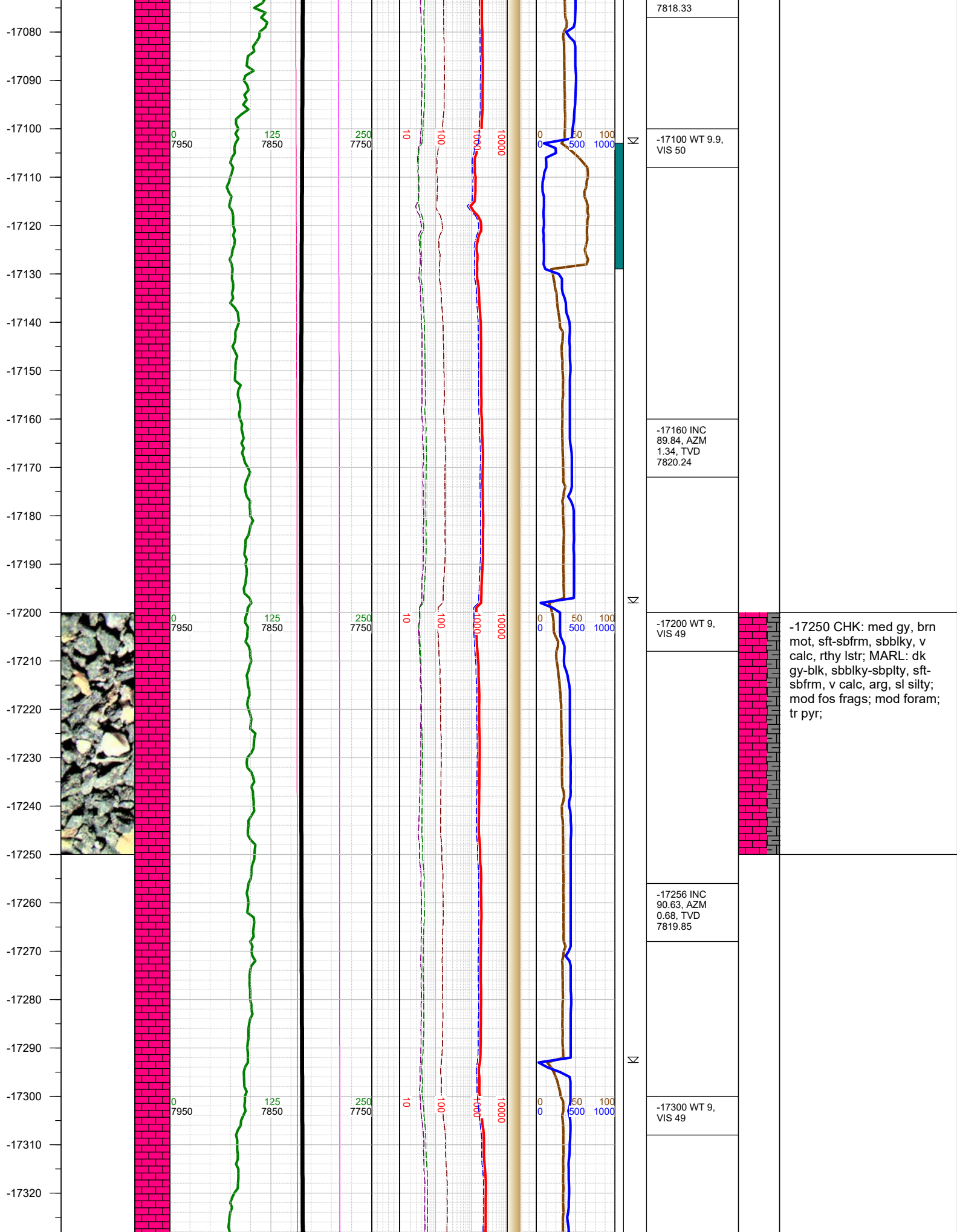
-16778 INC  
89.93, AZM  
359.54, TVD  
7814.82

-16800 WT 10,  
VIS 50

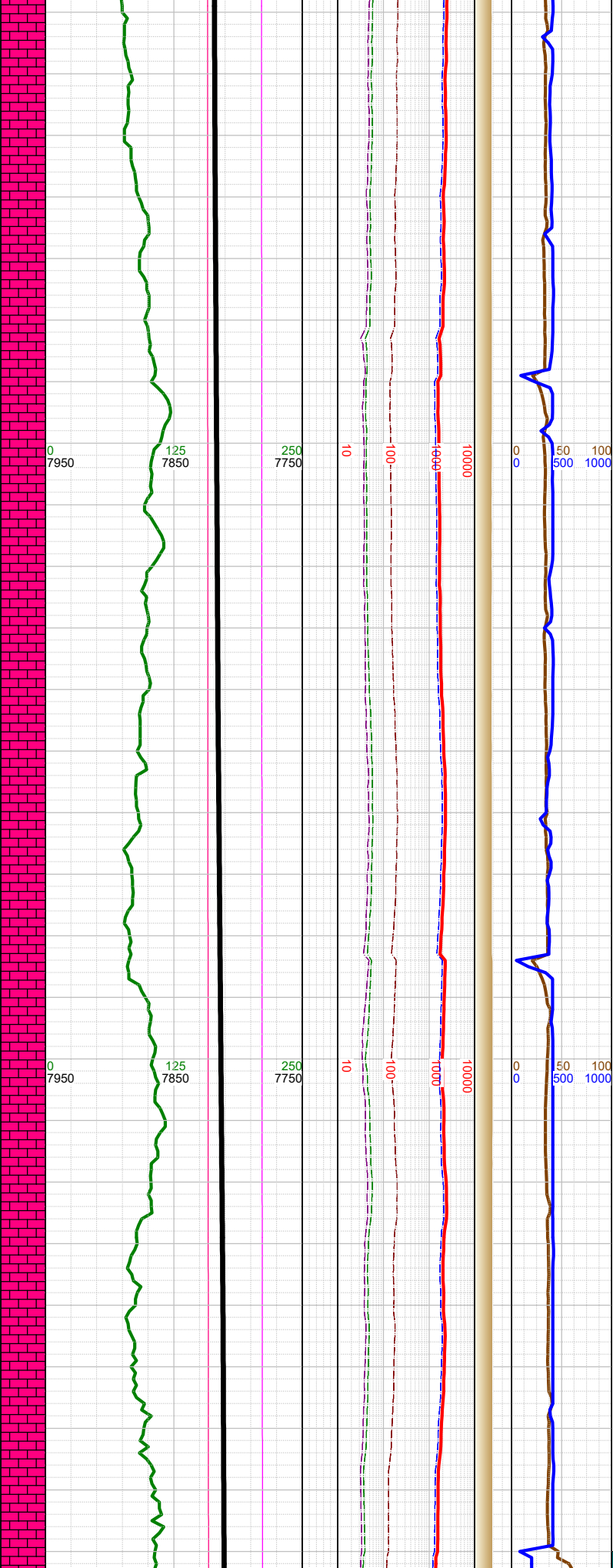
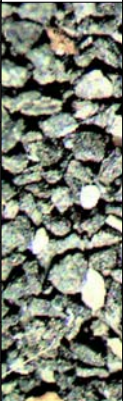
-16750 CHK: med gy, brn  
mot, sft-sbfrm, sbblky, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbblky-sbplty, sft-  
sbfrm, v calc, arg, sl silty;  
mod fos frags; mod foram;  
tr pyr;







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-17351 INC  
91.47, AZM  
359.58, TVD  
7818.11

-17400 WT 9,  
VIS 49

-17447 INC  
91.56, AZM  
358.79, TVD  
7815.57

-17500 WT 9,  
VIS 49

-17542 INC  
92.97, AZM  
358.39, TVD  
7811.82

-17500 CHK: med gy, brn  
mot, sft-sbfrm, sbbiky, v  
calc, rthy lstr; MARL: dk  
gy-blk, sbbiky-sbplty, sft-  
sbfrm, v calc, arg, sl silty;  
mod fos frags; mod foram;  
tr pyr;

