

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **United B S16-20-17N**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Ensign 769

API #: 05-014-20809

LAT/LONG: 39.985479, -105.000484

SURFACE HOLE: NENE S9-T1S-R68W, 436' FNL, 916' FEL

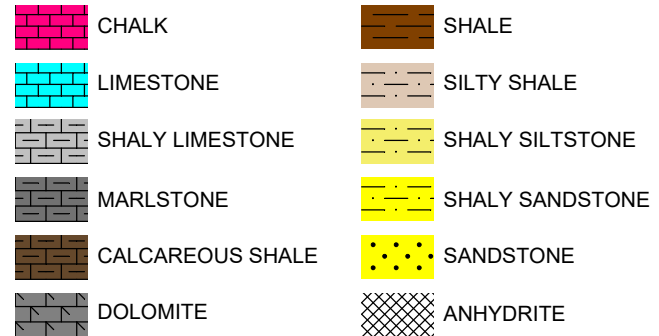
BOTTOM HOLE: S9-T1S-R68W, 391' FNL, 914' FEL



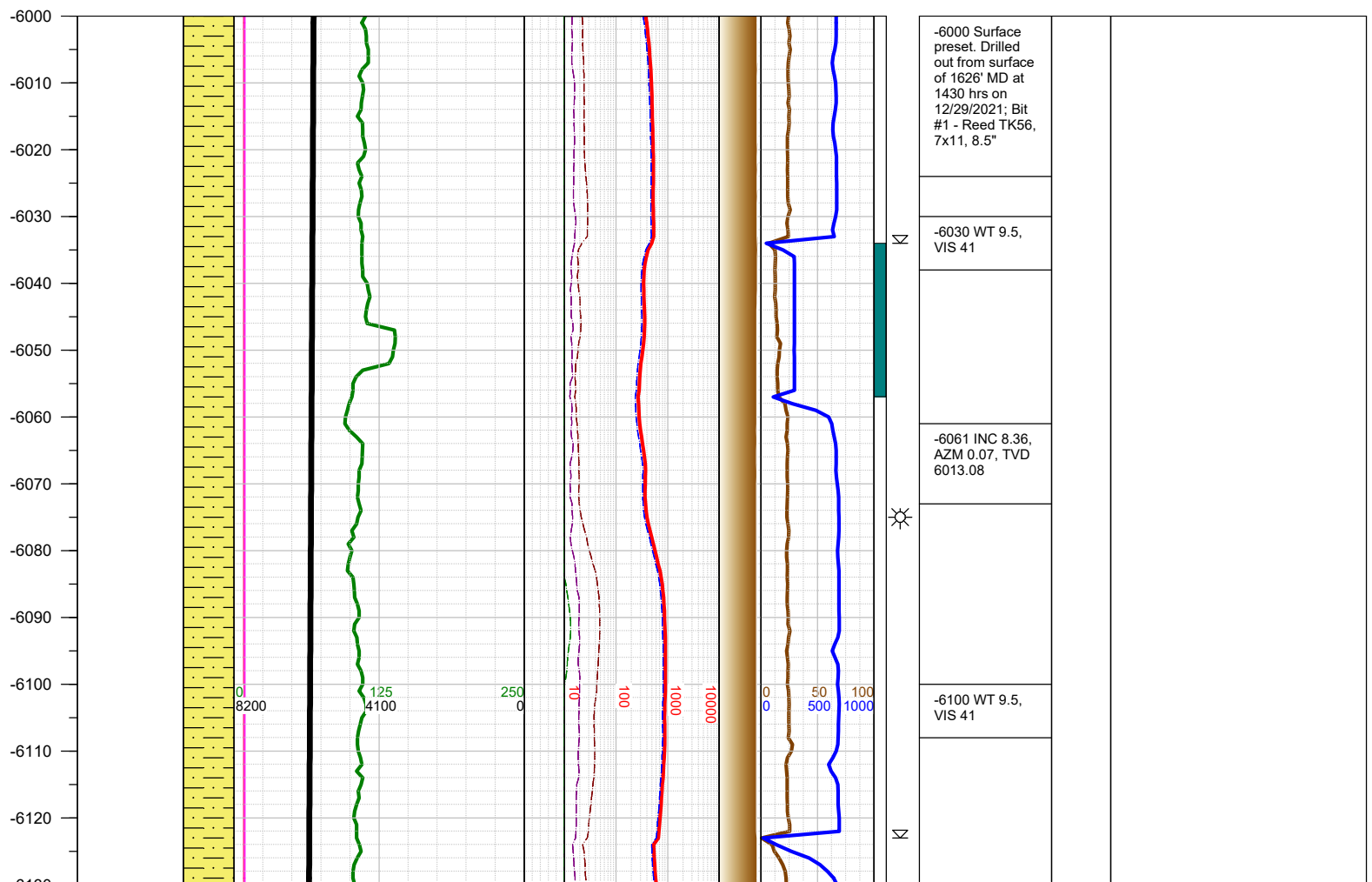
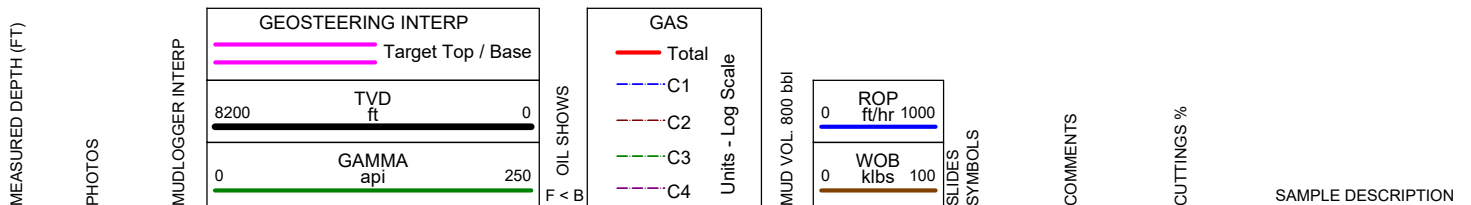
Earth Science Agency, LLC

COUNTY: Broomfield  
STATE: Colorado  
GROUND ELEVATION: 5254'  
KELLY BUSHING: 5282'  
DRILLING FLUID: OBM  
TVD VS. MD: 8015' / 18235'  
LOGGING START DATE: December 29, 2021  
TD DATE: January 2, 2021  
  
DEPTHS LOGGED: 6000' - 18235'  
DATES LOGGED: December 29, 2021 - January 2, 2021  
GEOLOGISTS: Scott Snoy, Ross Apodaca  
SCALE: 5" = 100'

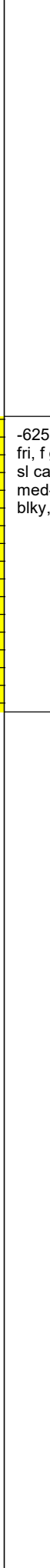
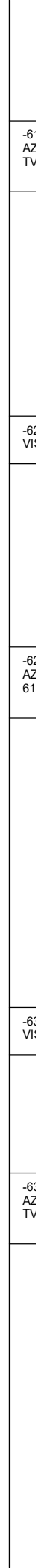
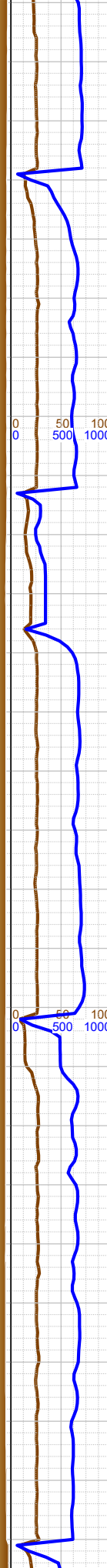
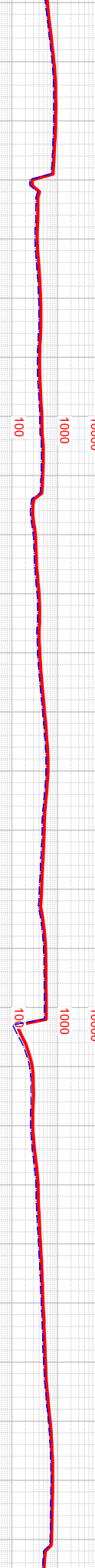
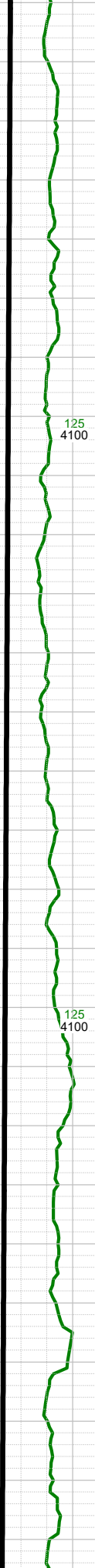
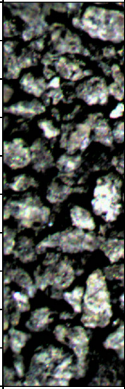
#### LEGEND



FORMATION  $\approx$  CONNECTION  $\Delta$  MIDNIGHT NEW BIT GAS SHOW FAULT



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-6150 INC 7.68,  
AZM 358.34,  
TVD 6101.21

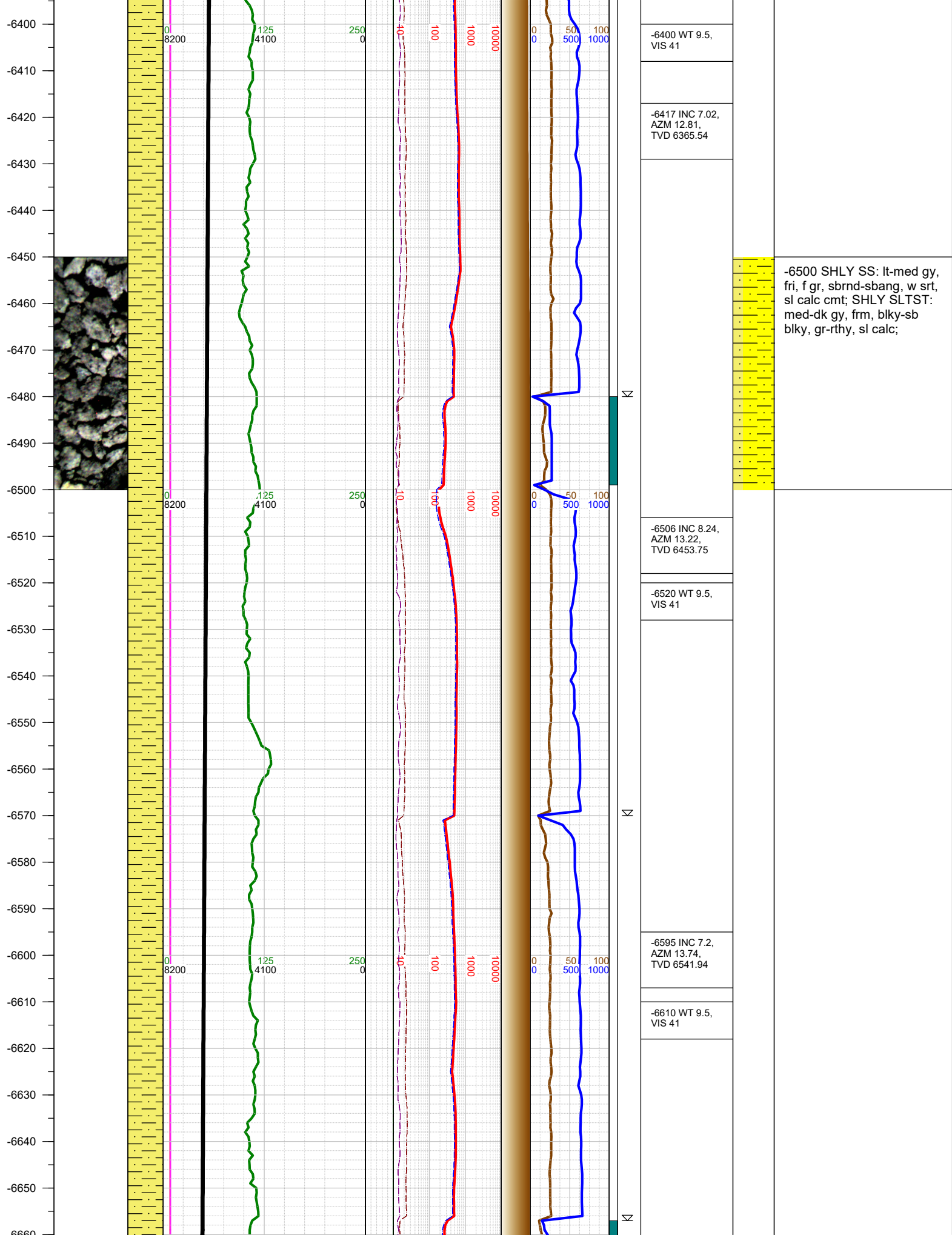
-6200 WT 9.5,  
VIS 41

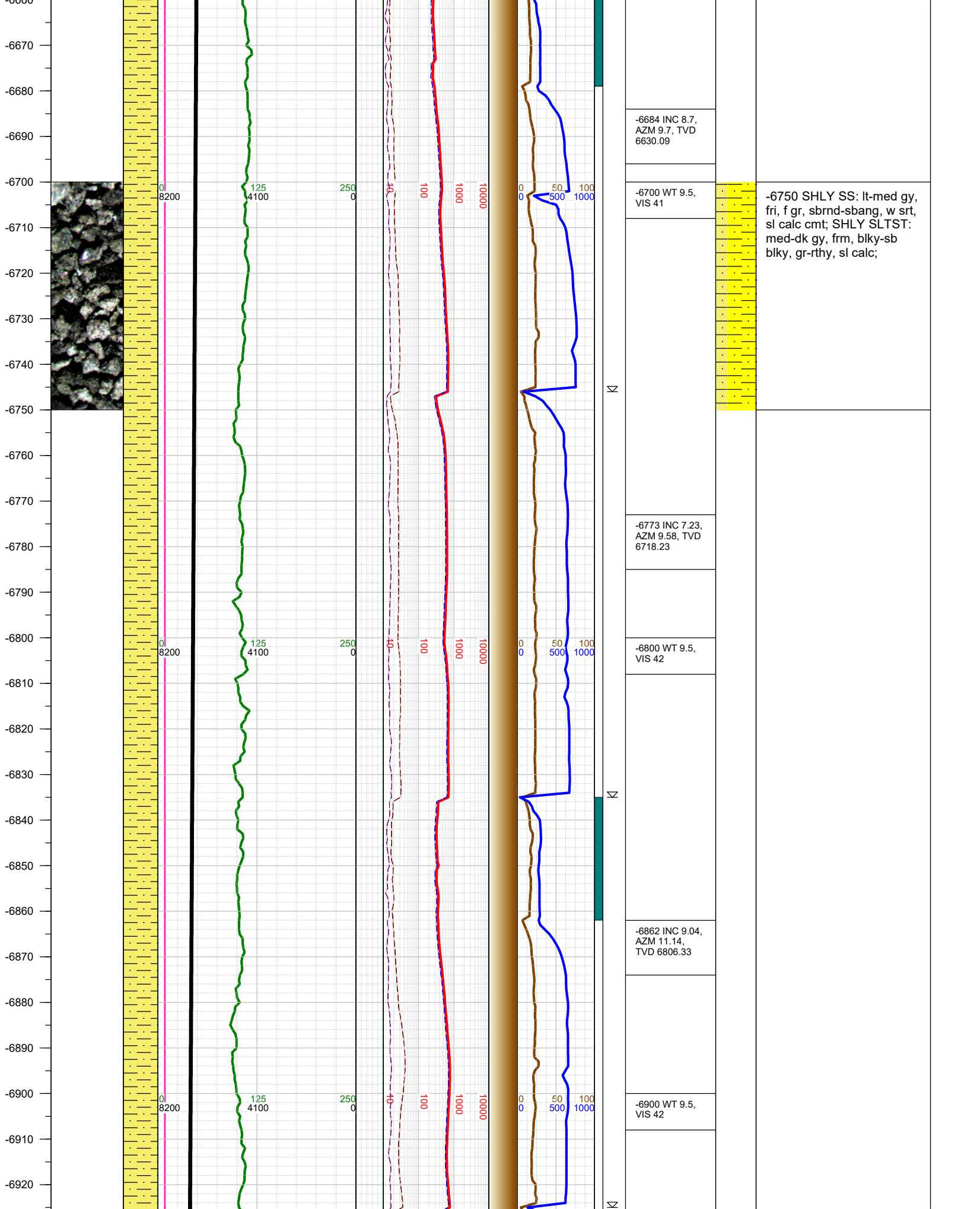
-6239 INC 8.84,  
AZM 9.49, TVD  
6189.29

-6300 WT 9.5,  
VIS 41

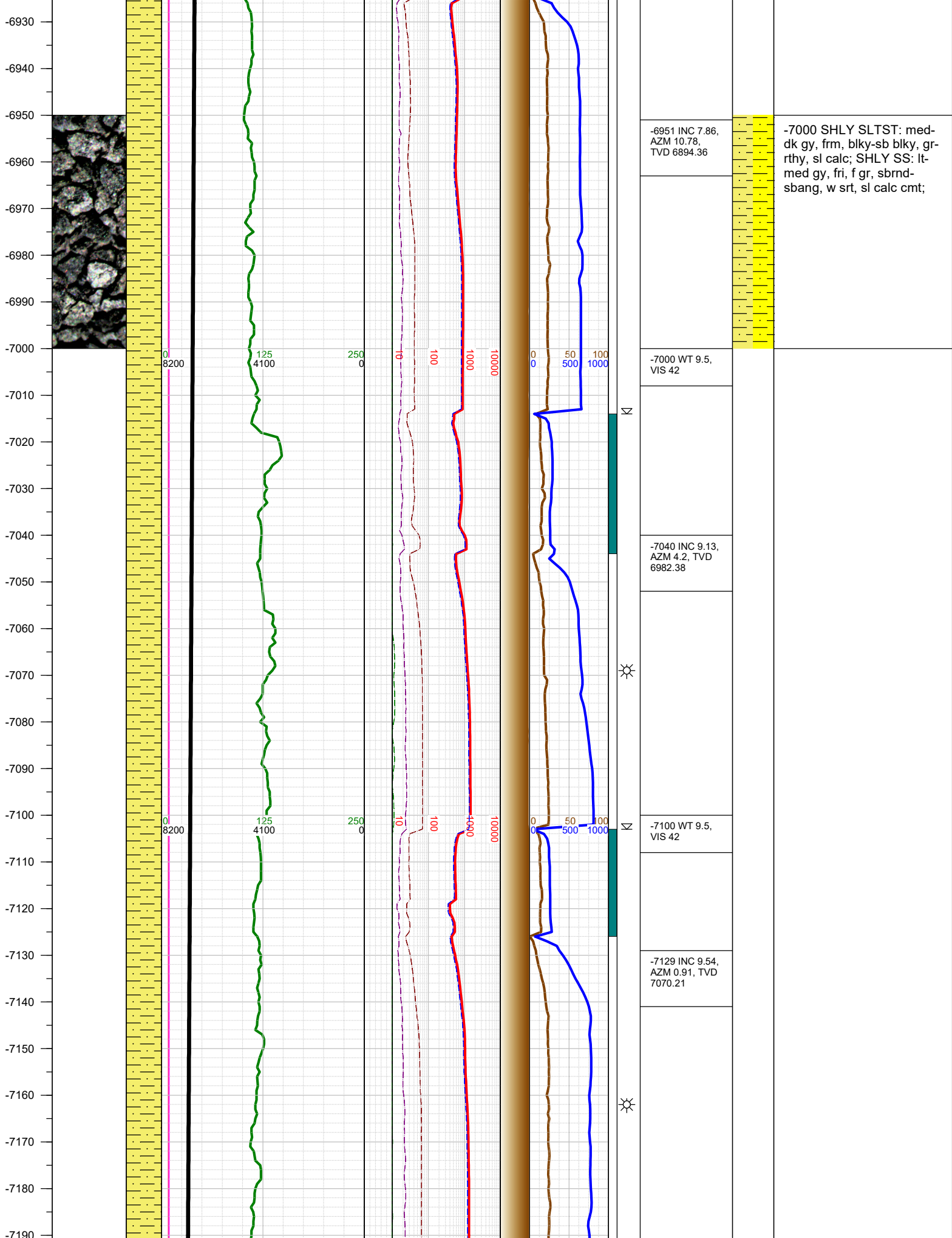
-6328 INC 8.12,  
AZM 10.02,  
TVD 6277.32

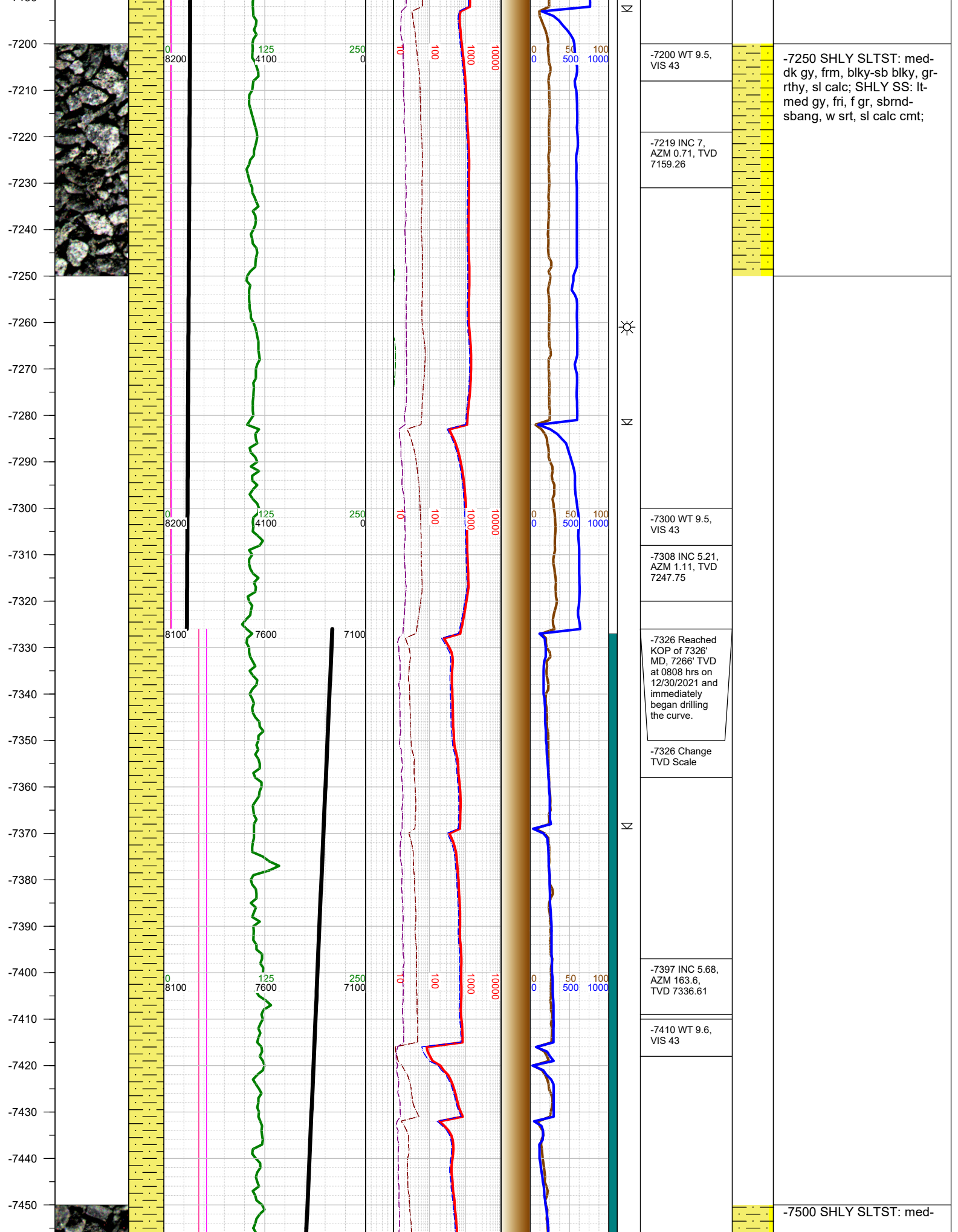
-6250 SHLY SS: lt-med gy,  
fri, f gr, sbrnd-sbang, w srt,  
sl calc cmt; SHLY SLTST:  
med-dk gy, frm, blk-y-sb  
blk-y, gr-rthy, sl calc;

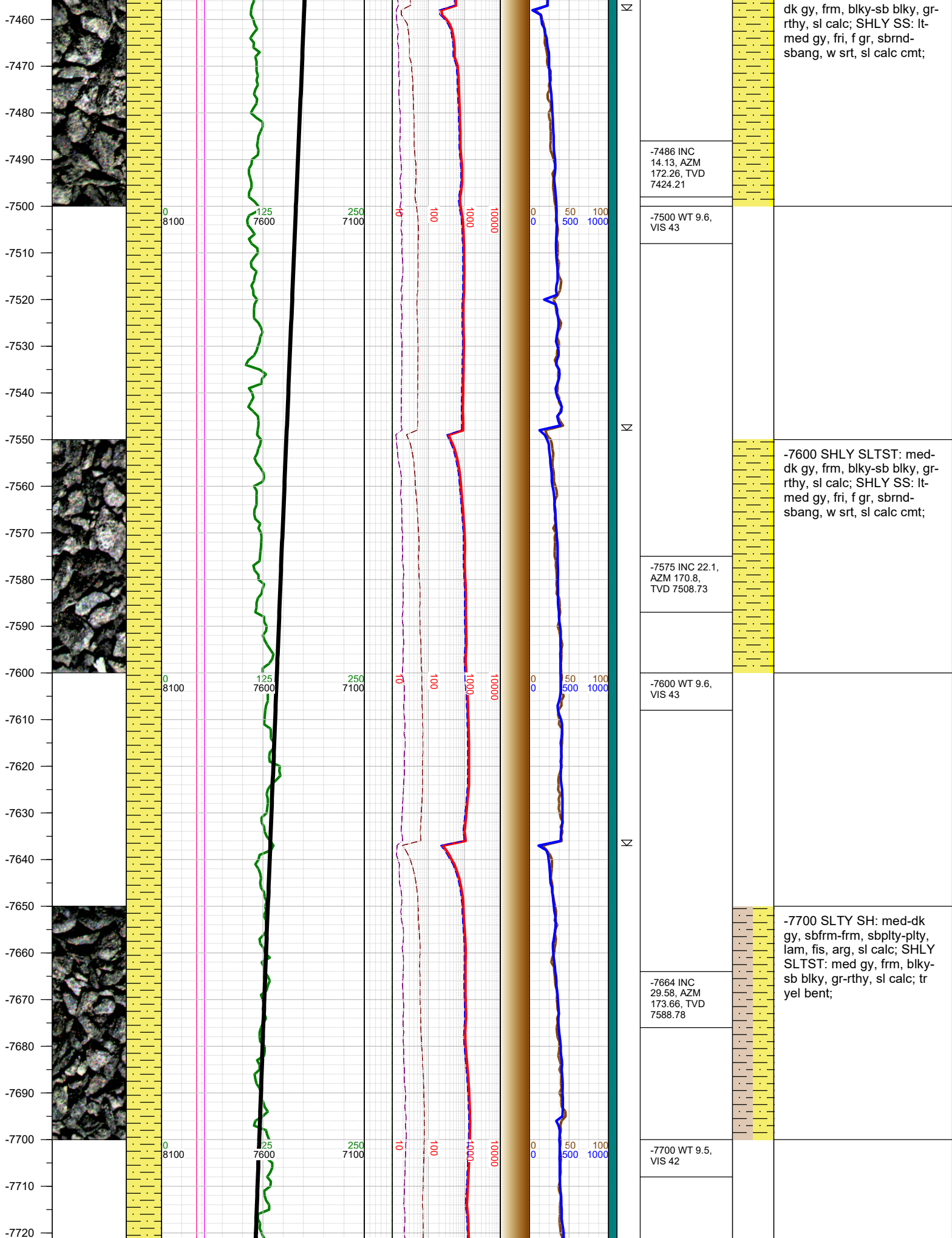




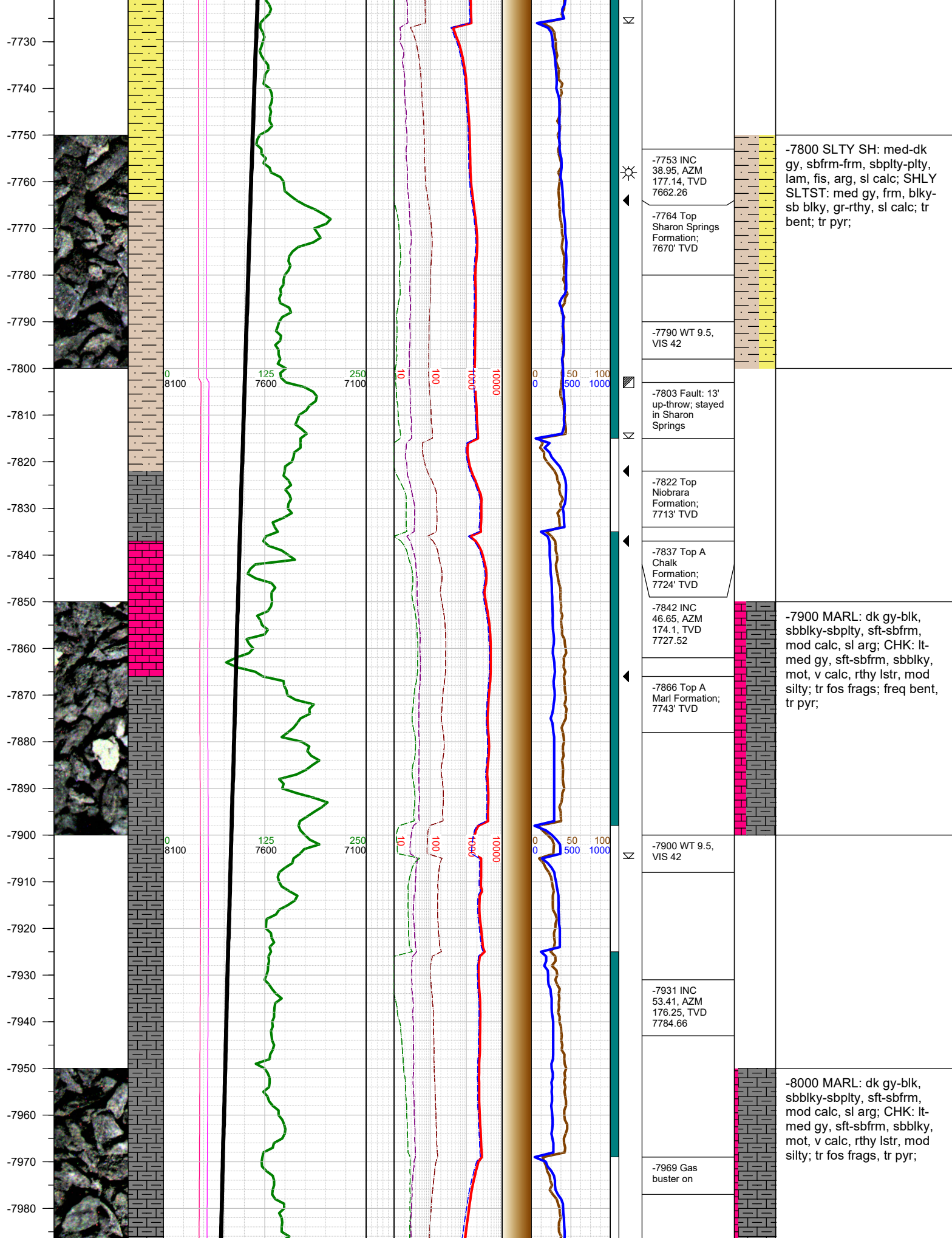




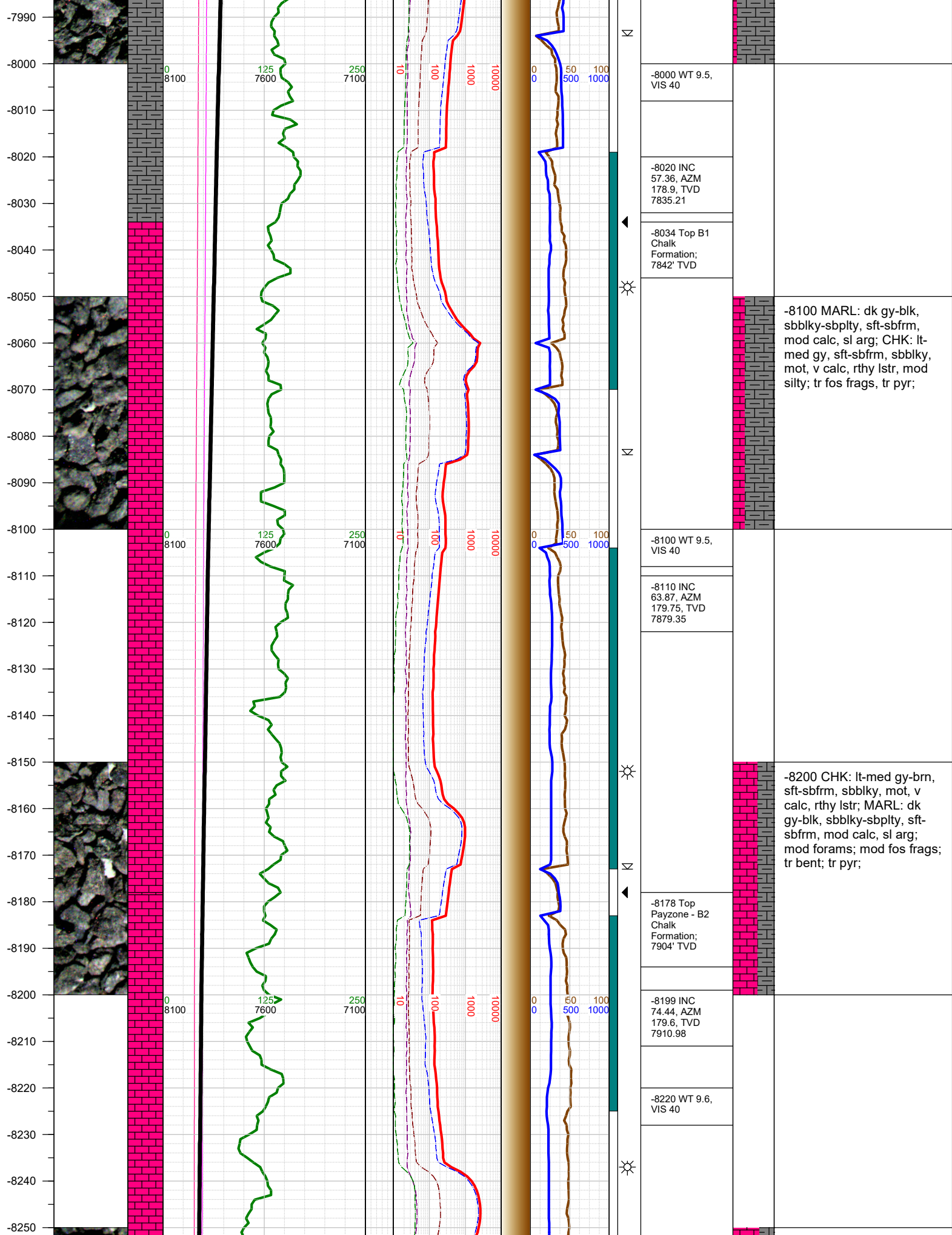






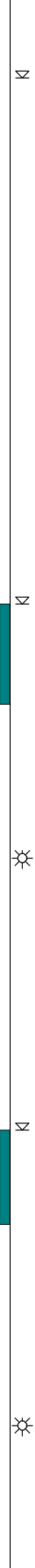
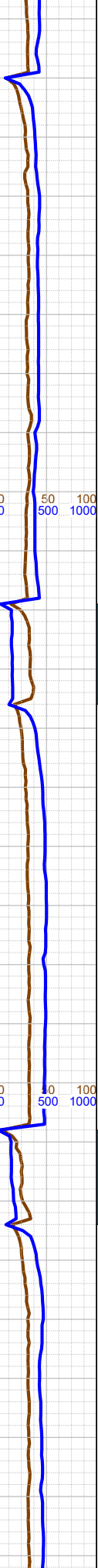
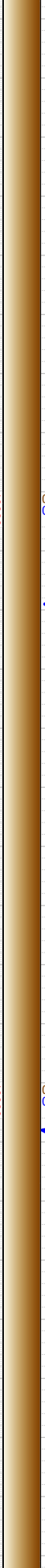
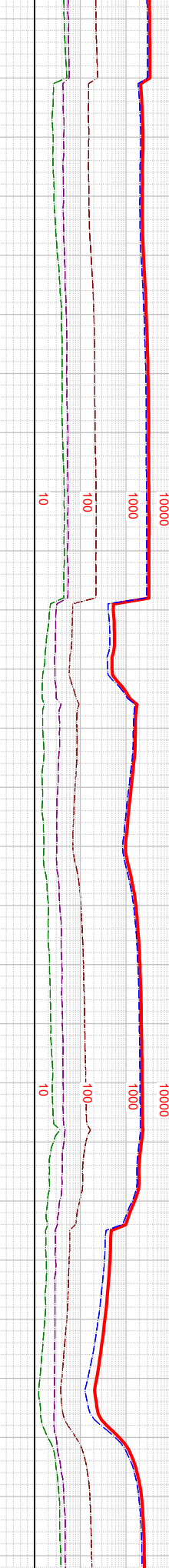
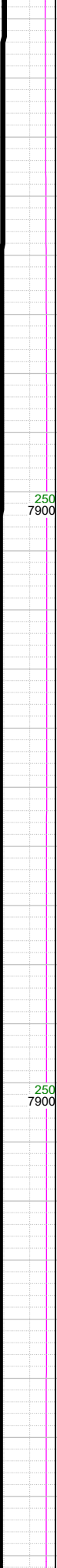
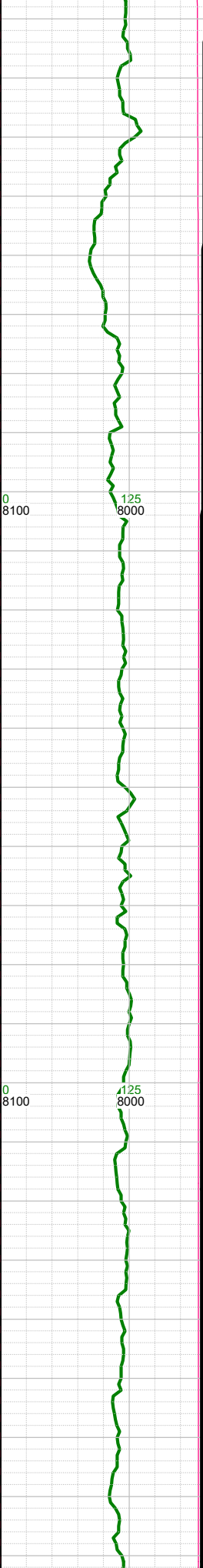
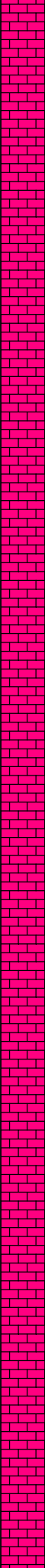








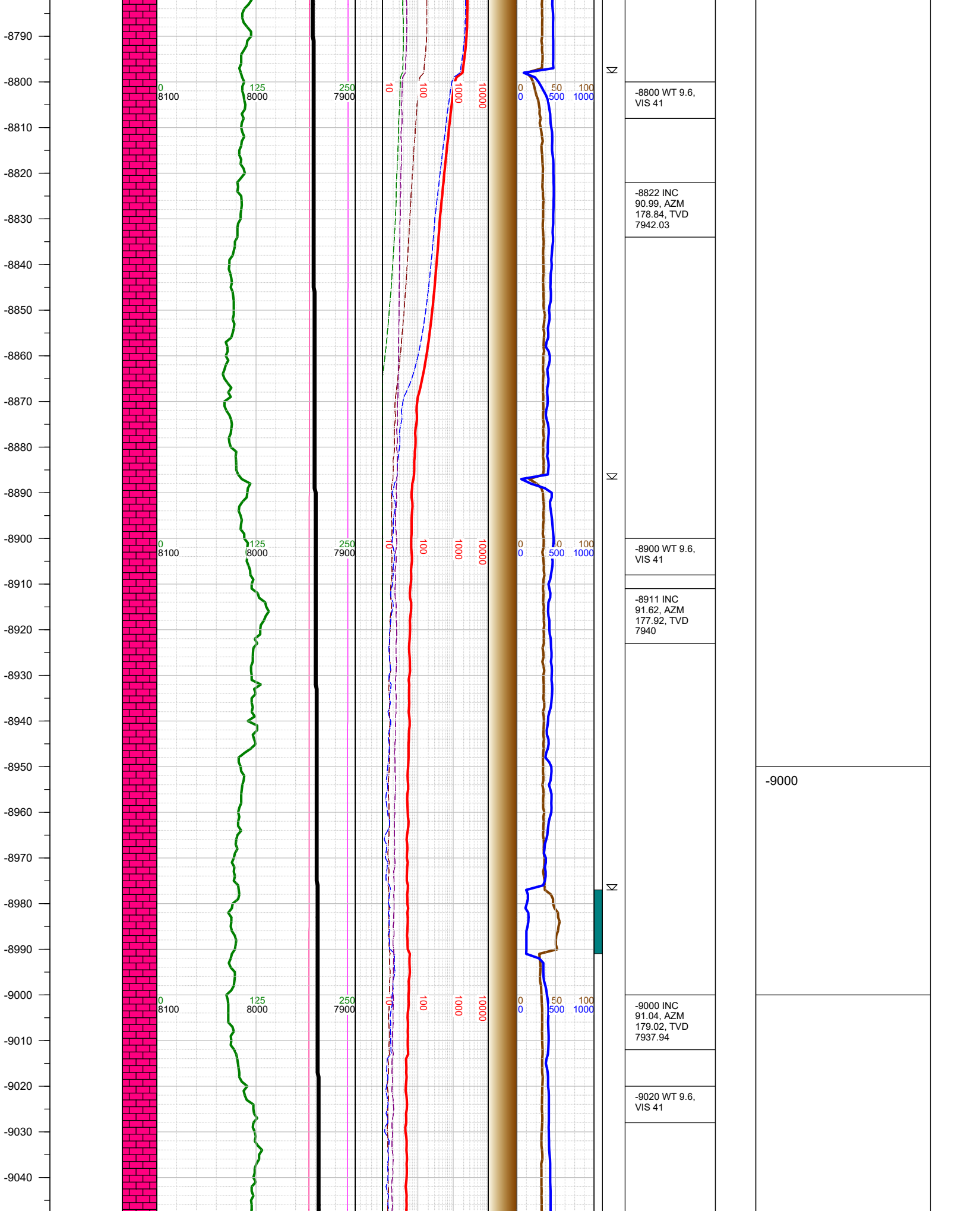
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	-8555 INC 88.06, AZM 180.06, TVD 7941.42
	-8600 WT 9.5, VIS 41
	-8644 INC 89.38, AZM 180.39, TVD 7943.4
	-8700 WT 9.6, VIS 41
	-8733 INC 90.7, AZM 179.63, TVD 7943.34

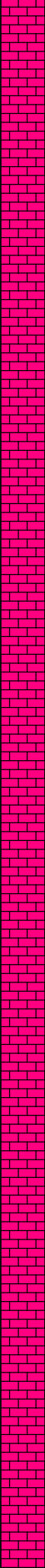
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-9089 INC  
91.86, AZM  
178.22, TVD  
7935.68

-9110 WT 9.7,  
VIS 39

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-9179 INC  
91.23, AZM  
179.41, TVD  
7933.26

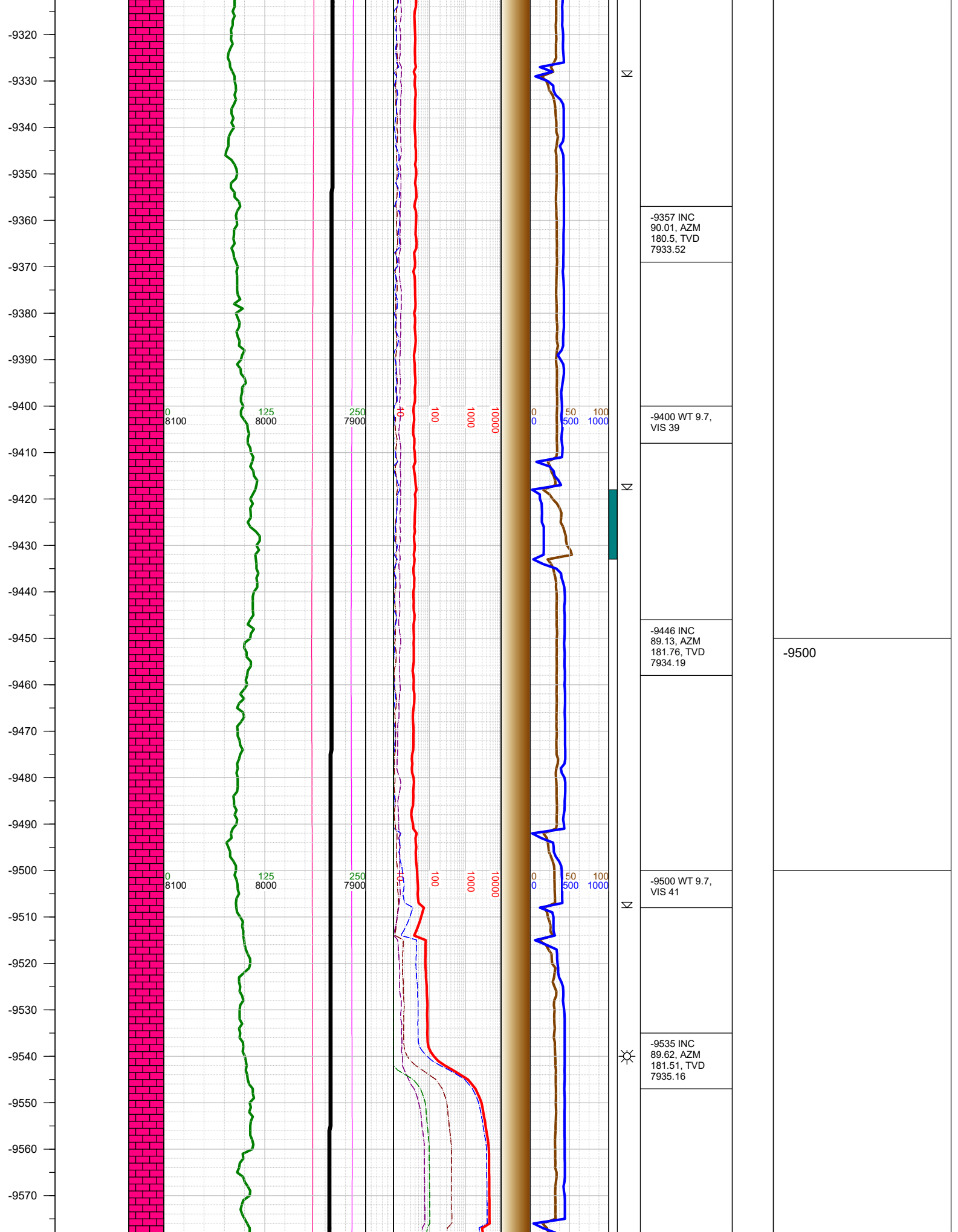
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VIS 39

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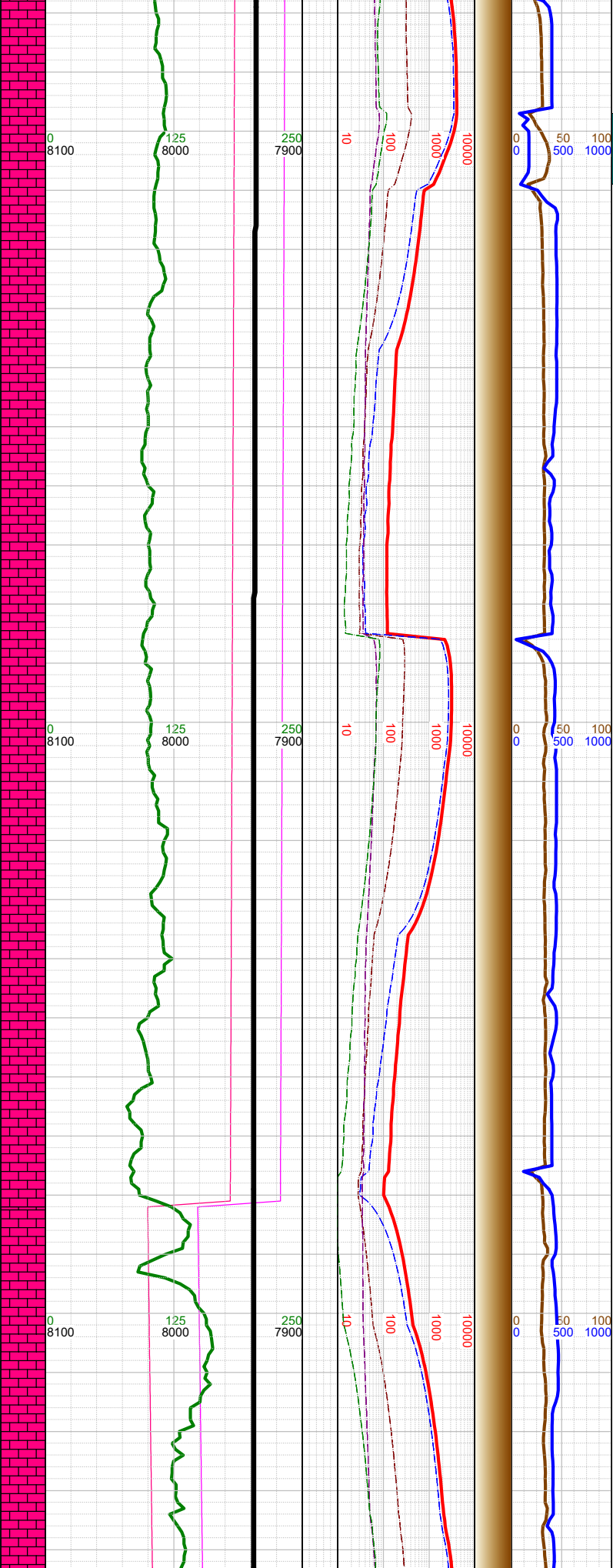
-9268 INC  
89.21, AZM  
180.77, TVD  
7932.92

-9300 WT 9.7,  
VIS 39

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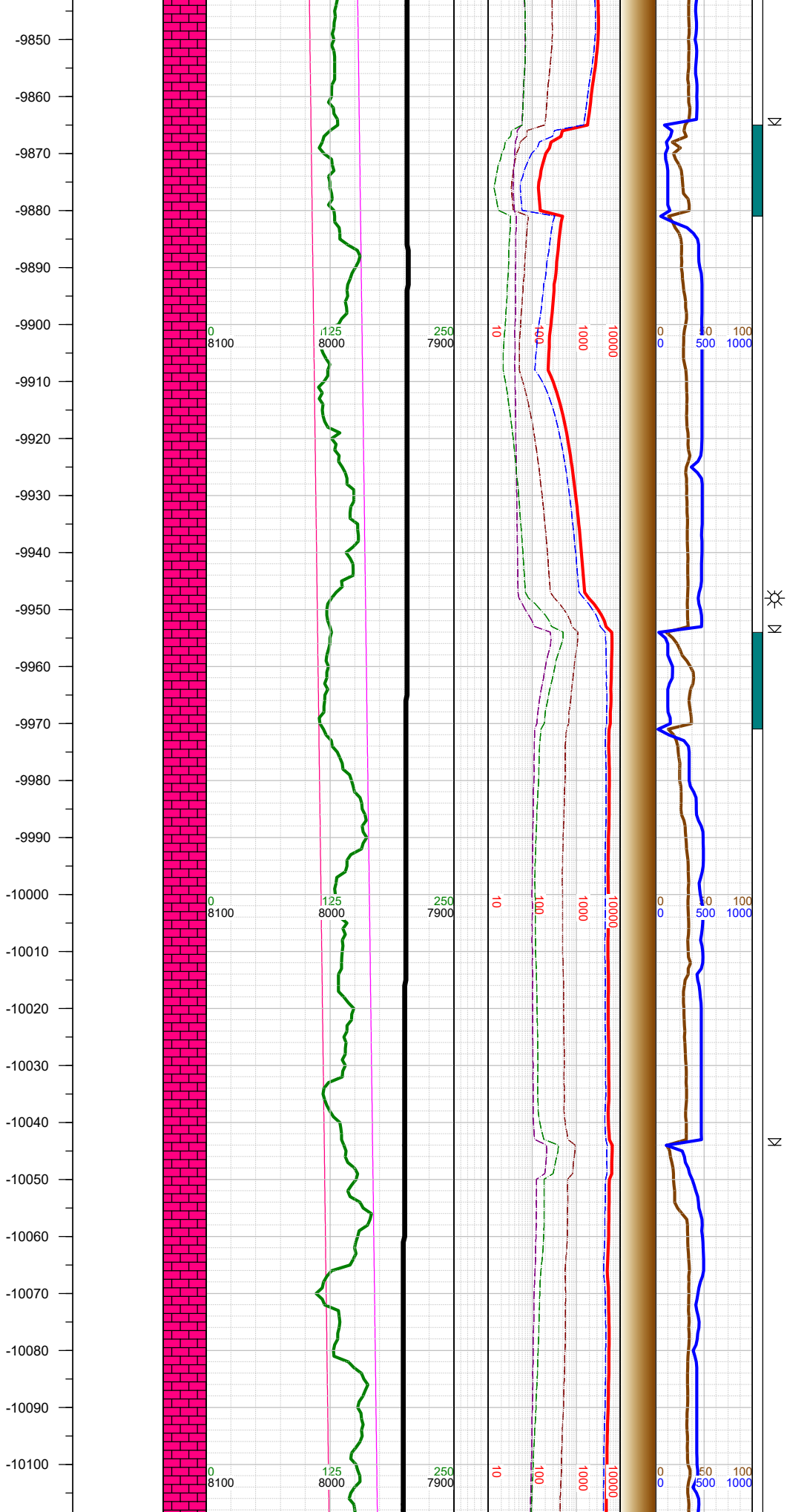


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N	-9600 WT 9.7, VIS 41
N	-9624 INC 88.49, AZM 181.88, TVD 7936.63
N	-9700 WT 9.7, VIS 41
N	-9713 INC 89.66, AZM 182.88, TVD 7938.07
N	-9782 Fault: 64' down-throw; went from B2 Chalk to B1 Chalk
☀	-9803 INC 90.52, AZM 182.13, TVD 7937.92
☀	-9820 WT 9.7, VIS 41

-9750



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-9892 INC  
90.06, AZM  
181.13, TVD  
7937.47

-9910 WT 9.7,  
VIS 41

-9981 INC  
88.34, AZM  
180.14, TVD  
7938.72

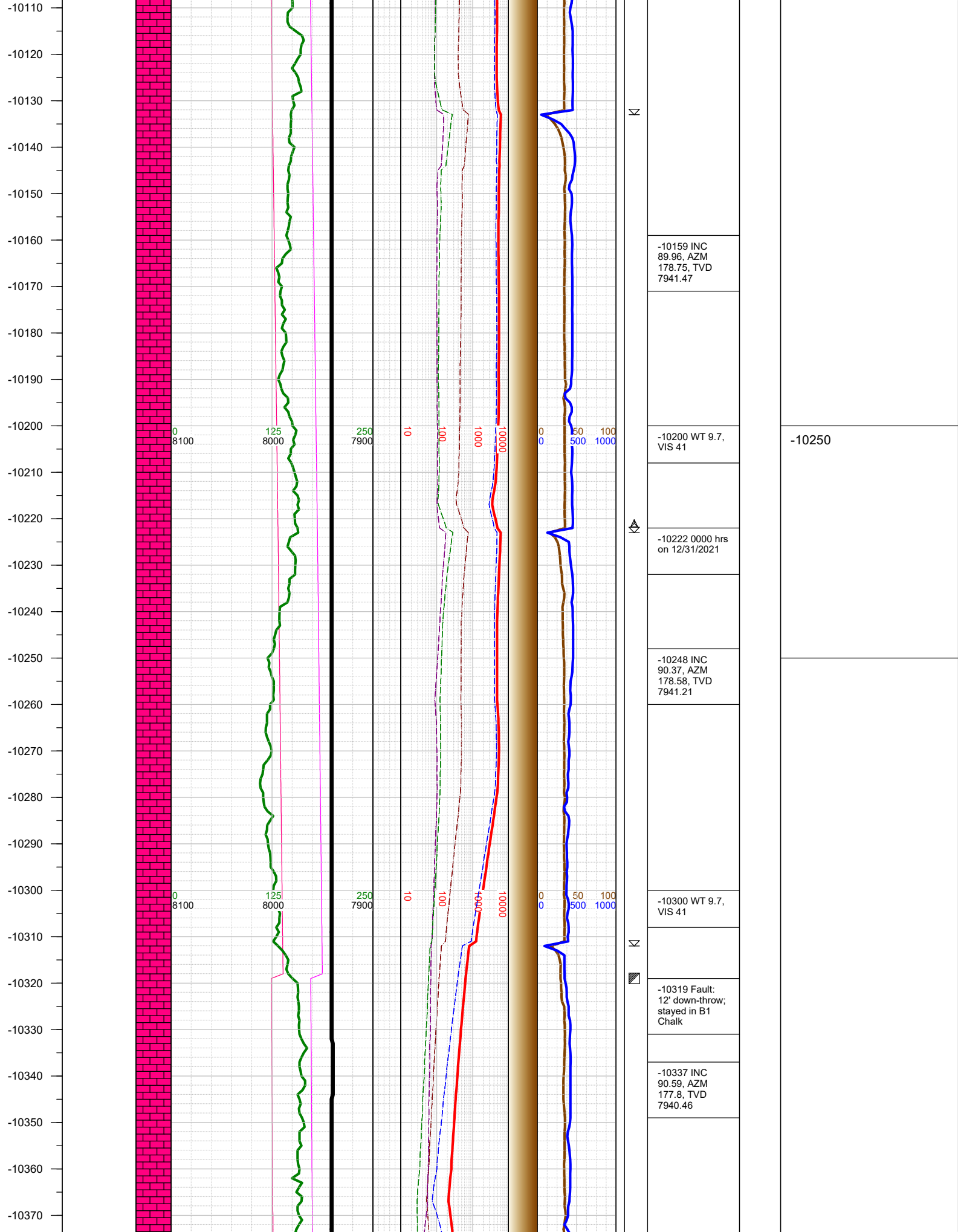
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VIS 41

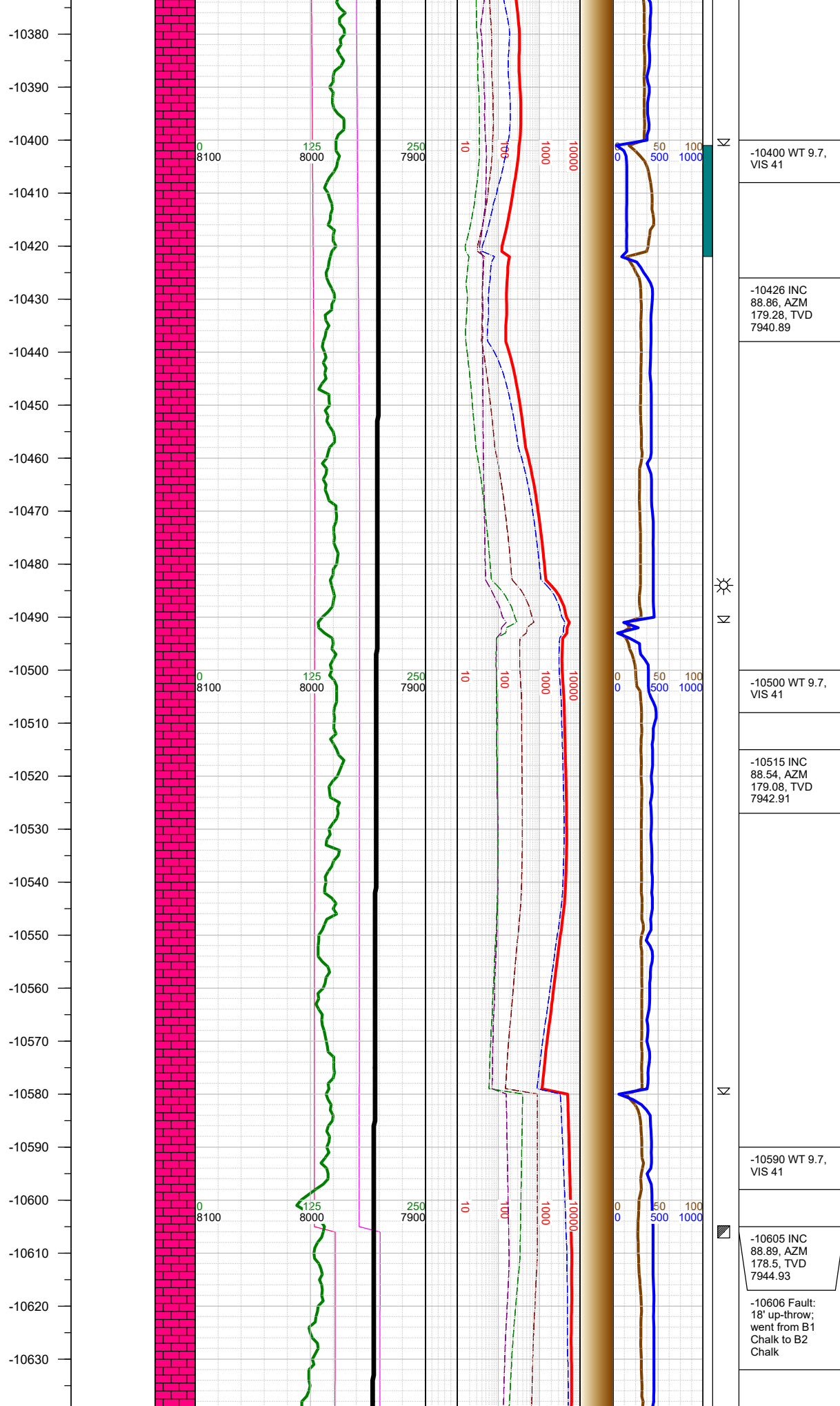
-10070 INC  
89.08, AZM  
179.61, TVD  
7940.72

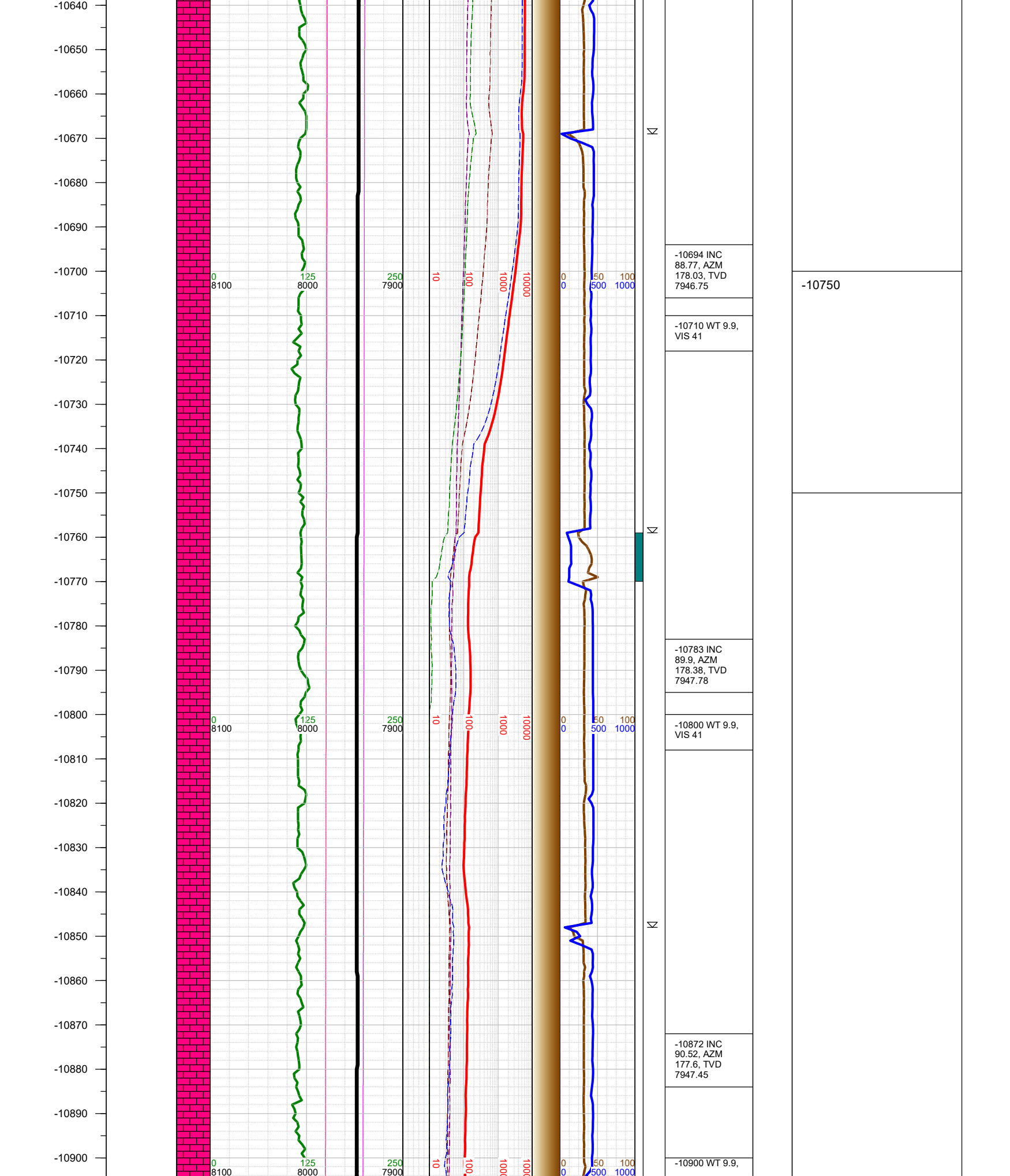
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VIS 41

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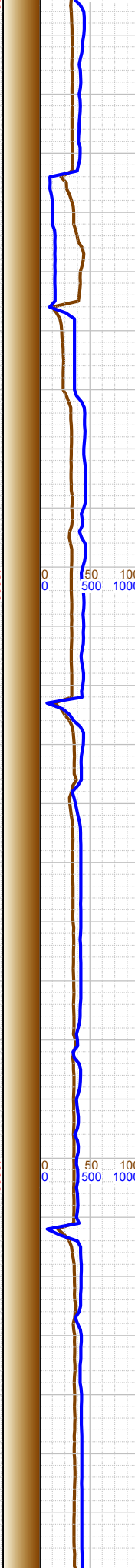
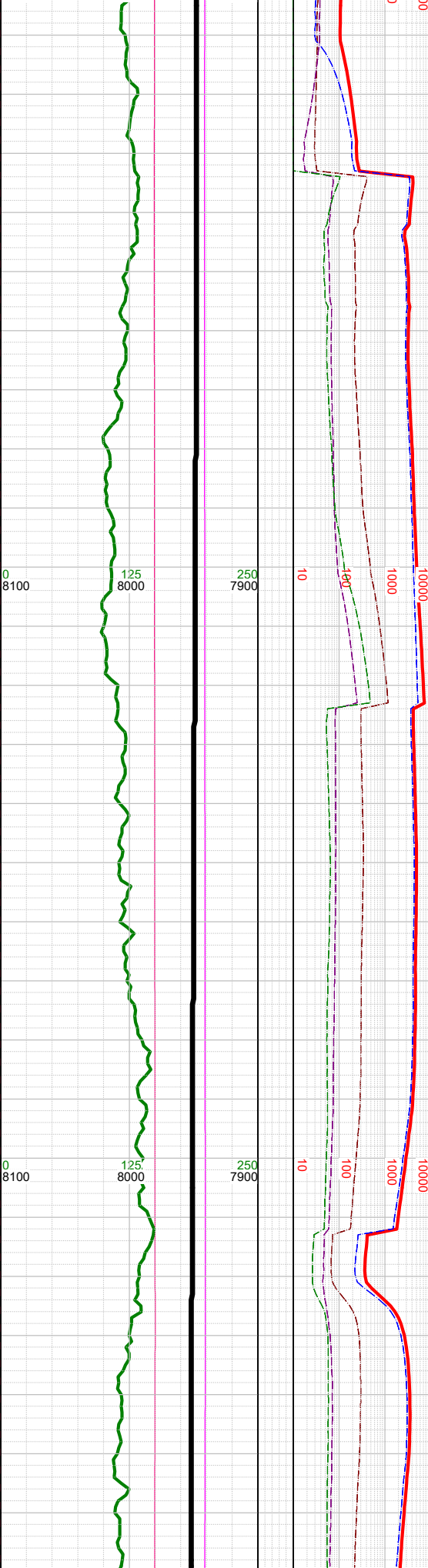
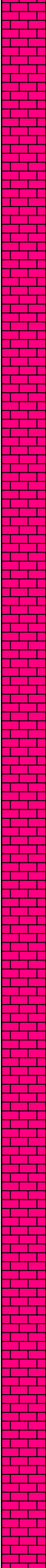








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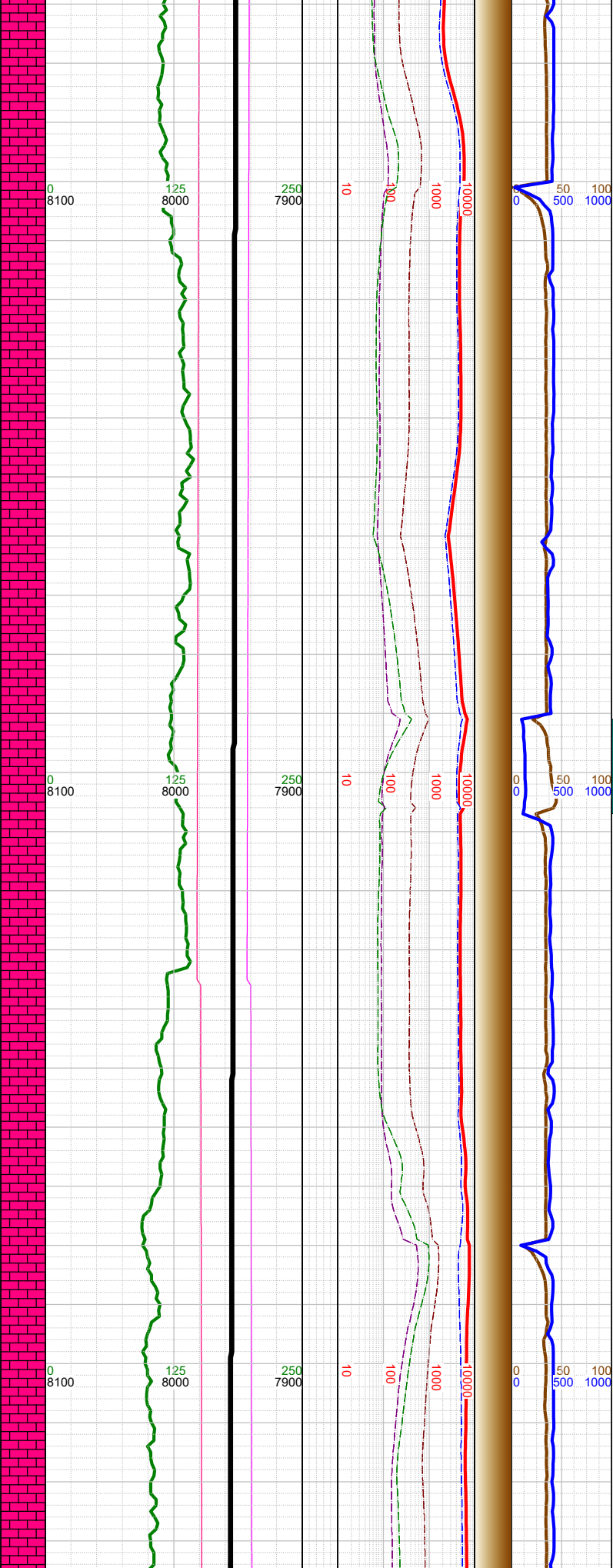
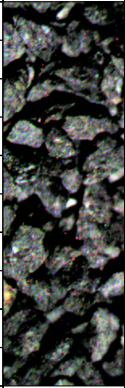


VIS 41
-10961 INC 88.7, AZM 179.66, TVD 7948.06
-11000 WT 9.9, VIS 41
-11050 INC 88.78, AZM 179.84, TVD 7950.02
-11100 WT 9.9, VIS 40
-11139 INC 88.9, AZM 179.39, TVD 7951.82

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-11200 WT 9.8,  
VIS 39

-11228 INC  
89.97, AZM  
177.94, TVD  
7952.69

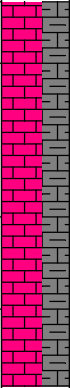
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-11317 INC  
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179.28, TVD  
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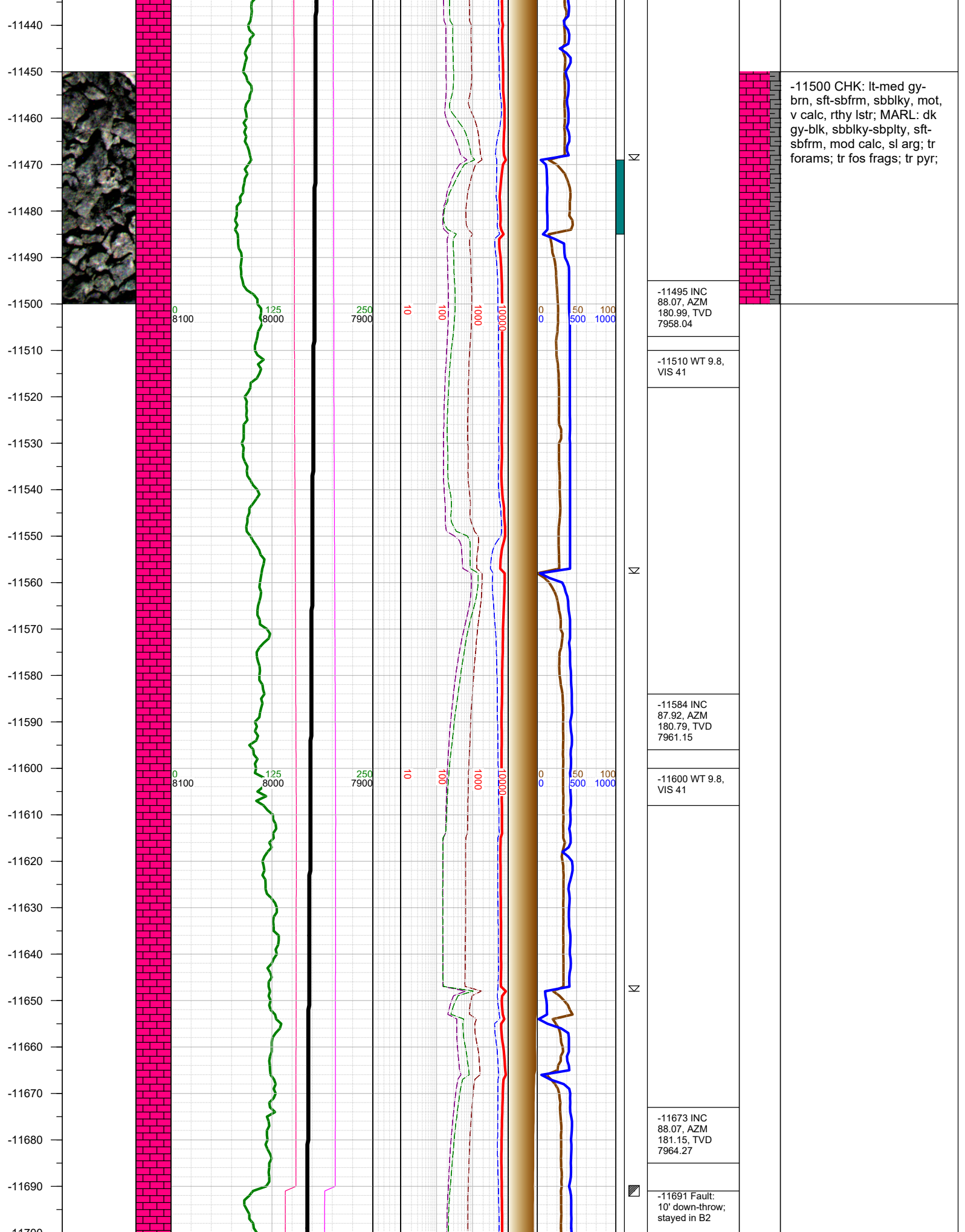
-11336 Fault: 3'  
up-throw; stayed  
in B2 Chalk

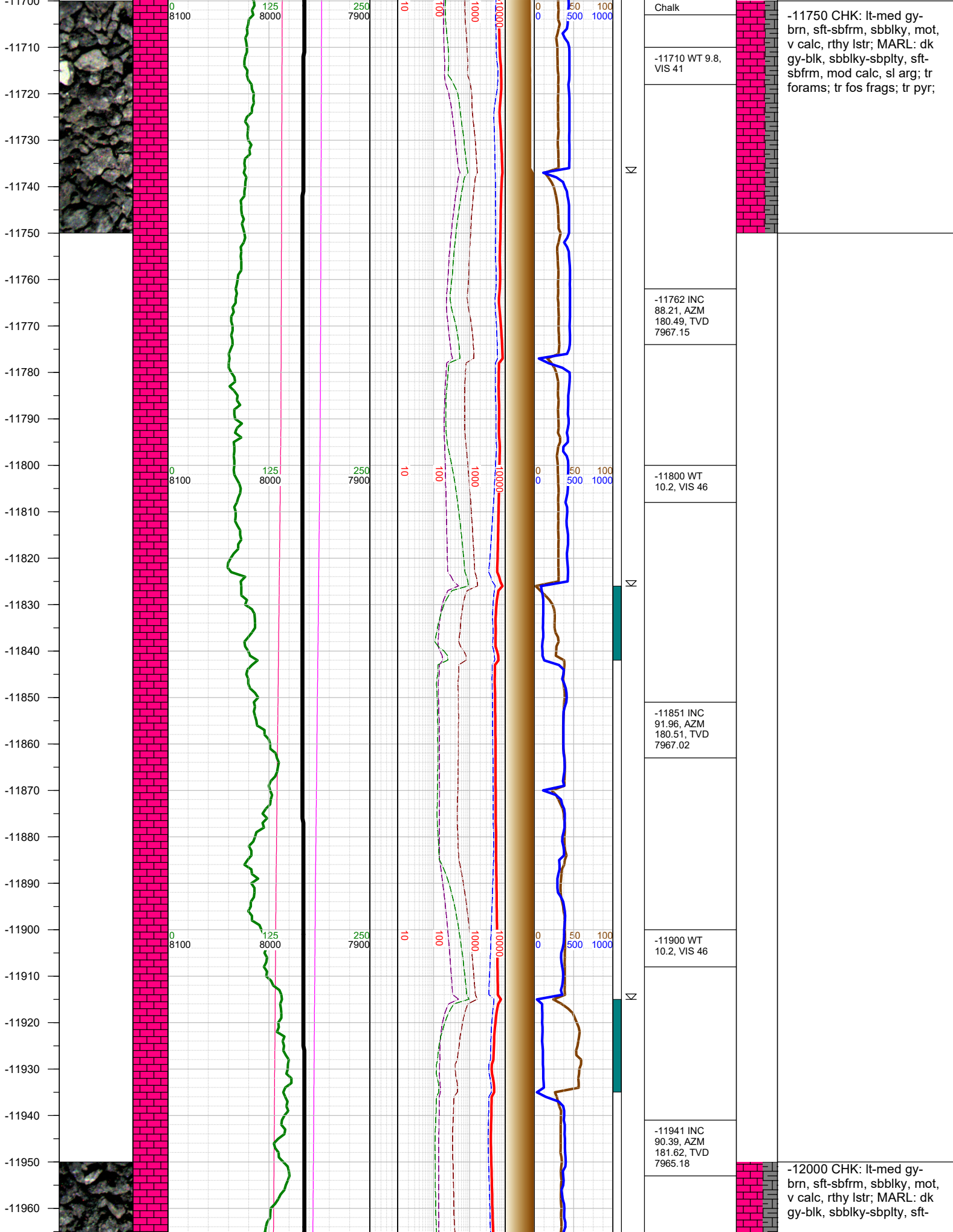
-11406 INC  
88.88, AZM  
178.94, TVD  
7955.67

-11420 WT 9.8,  
VIS 39

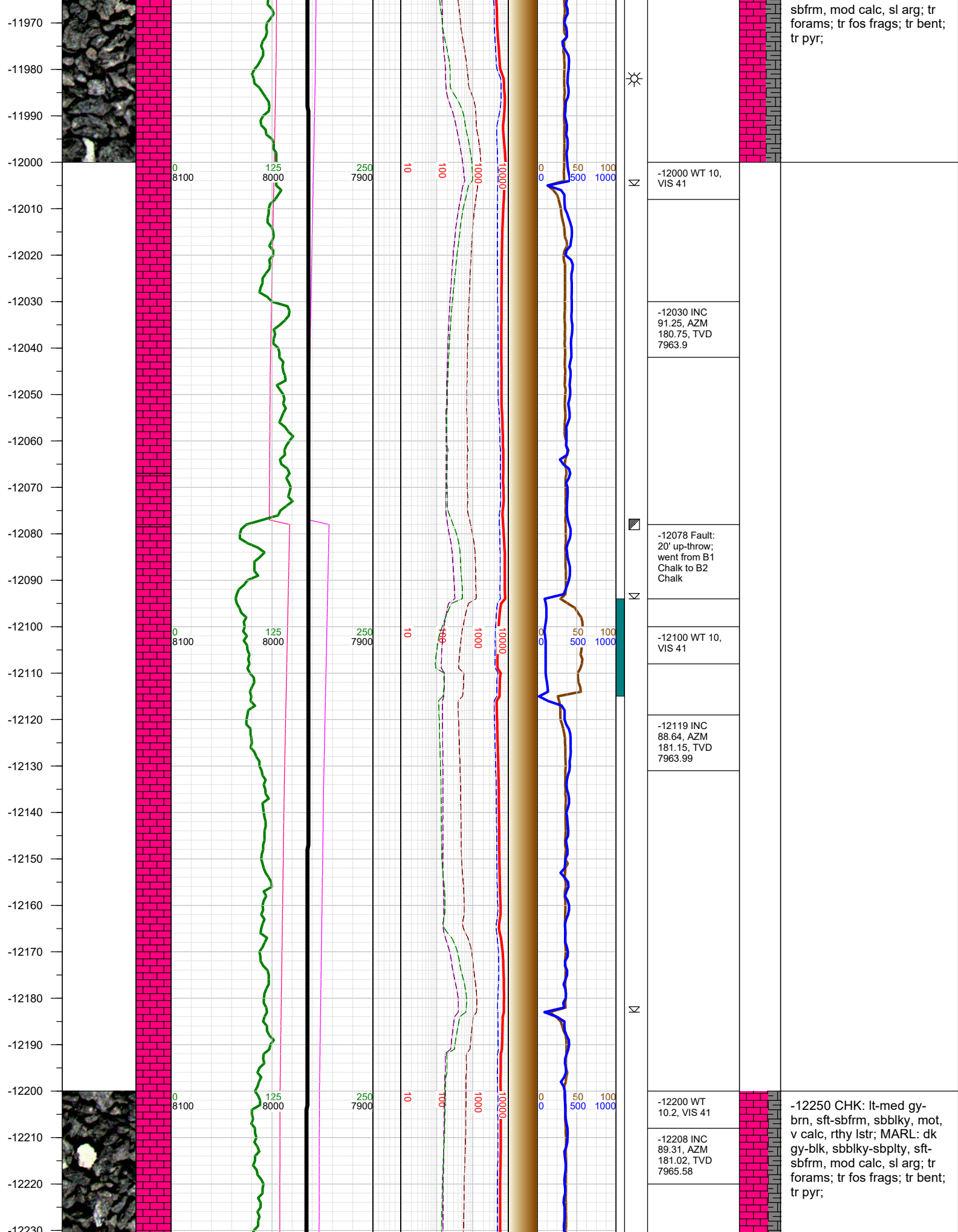


-11250 CHK: lt-med gy-  
brn, sft-sbfrm, sbbkly, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbbkly-sbply, sft-  
sbfrm, mod calc, sl arg; tr  
forams; tr fos frags; tr bent;  
tr pyr;

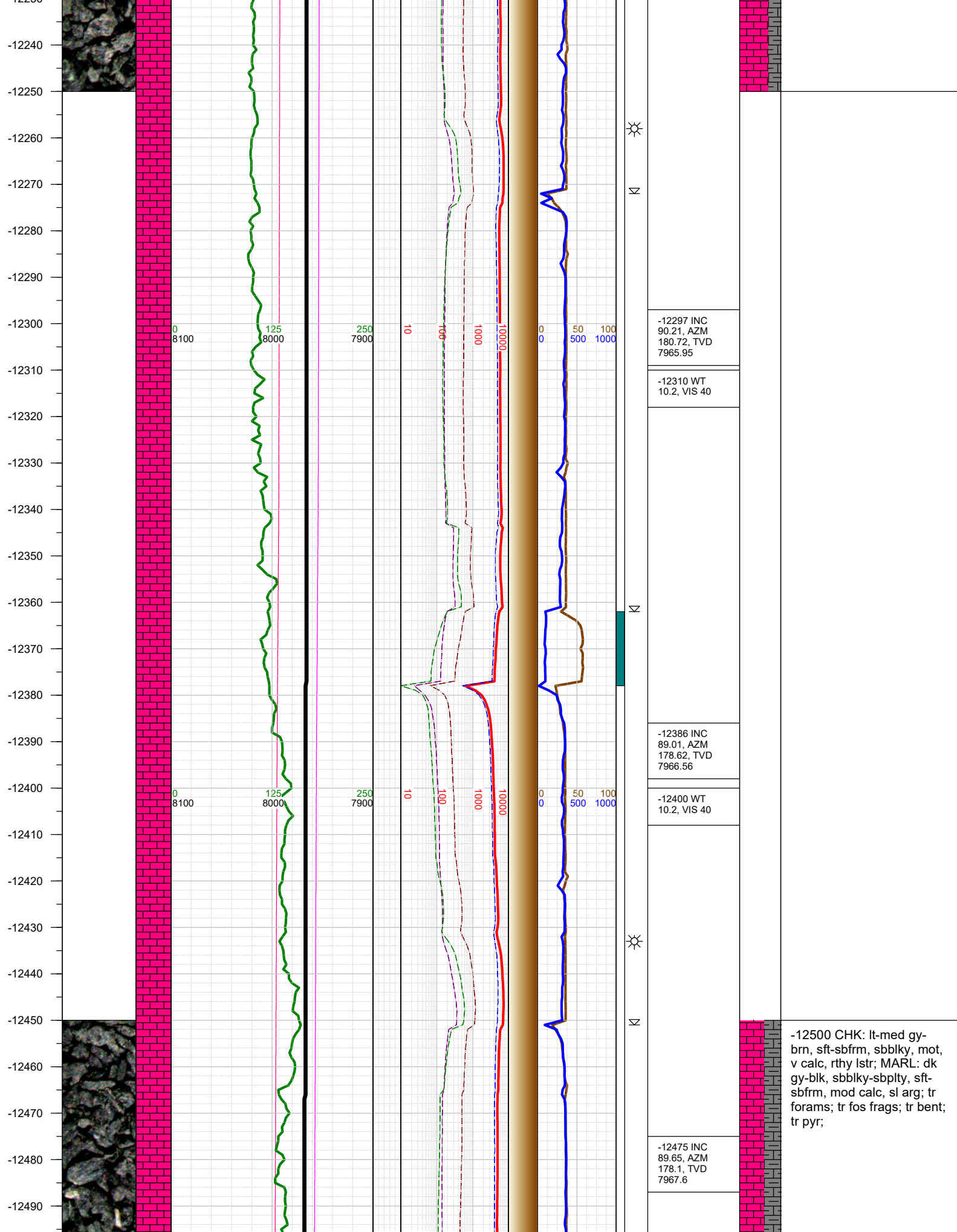


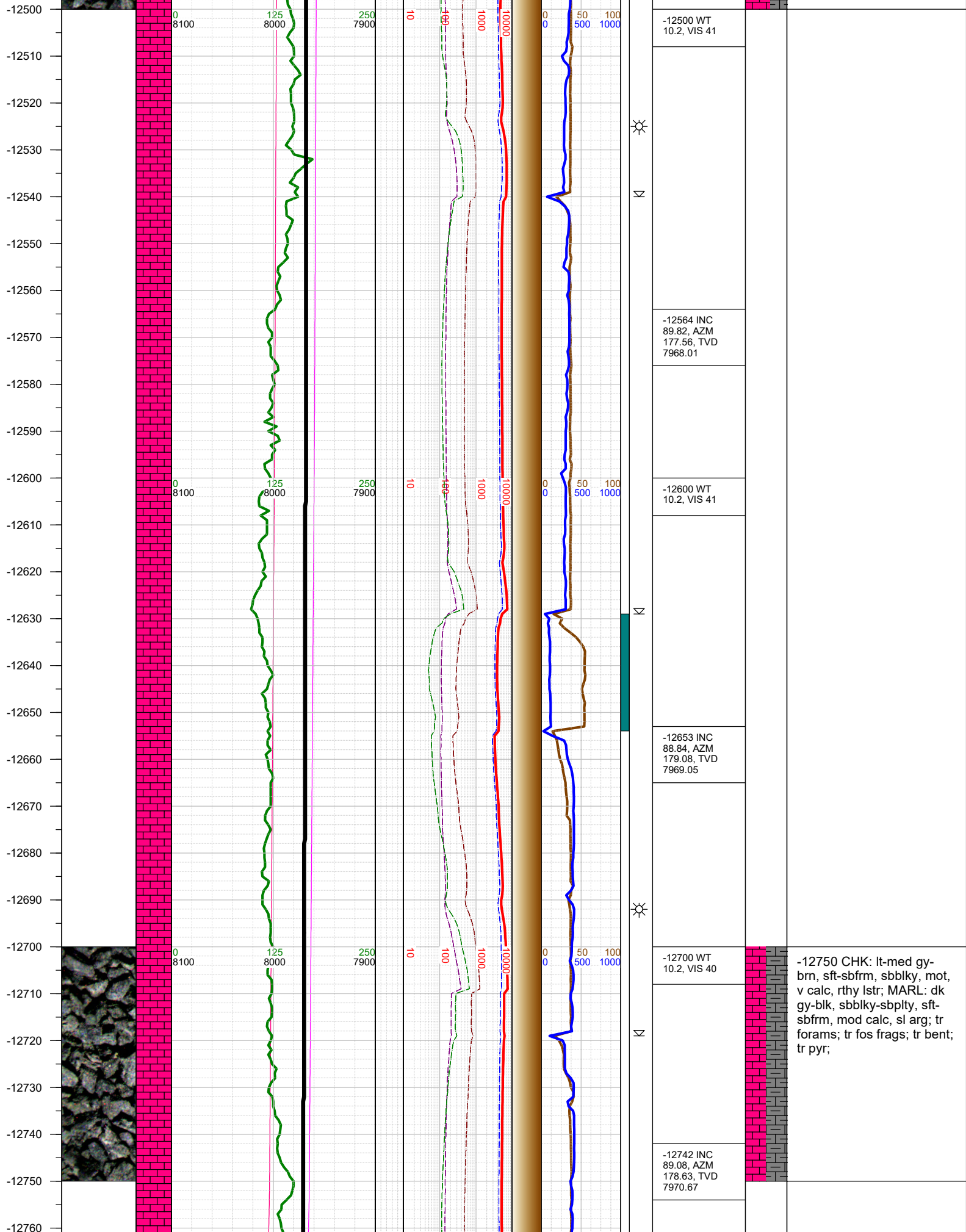


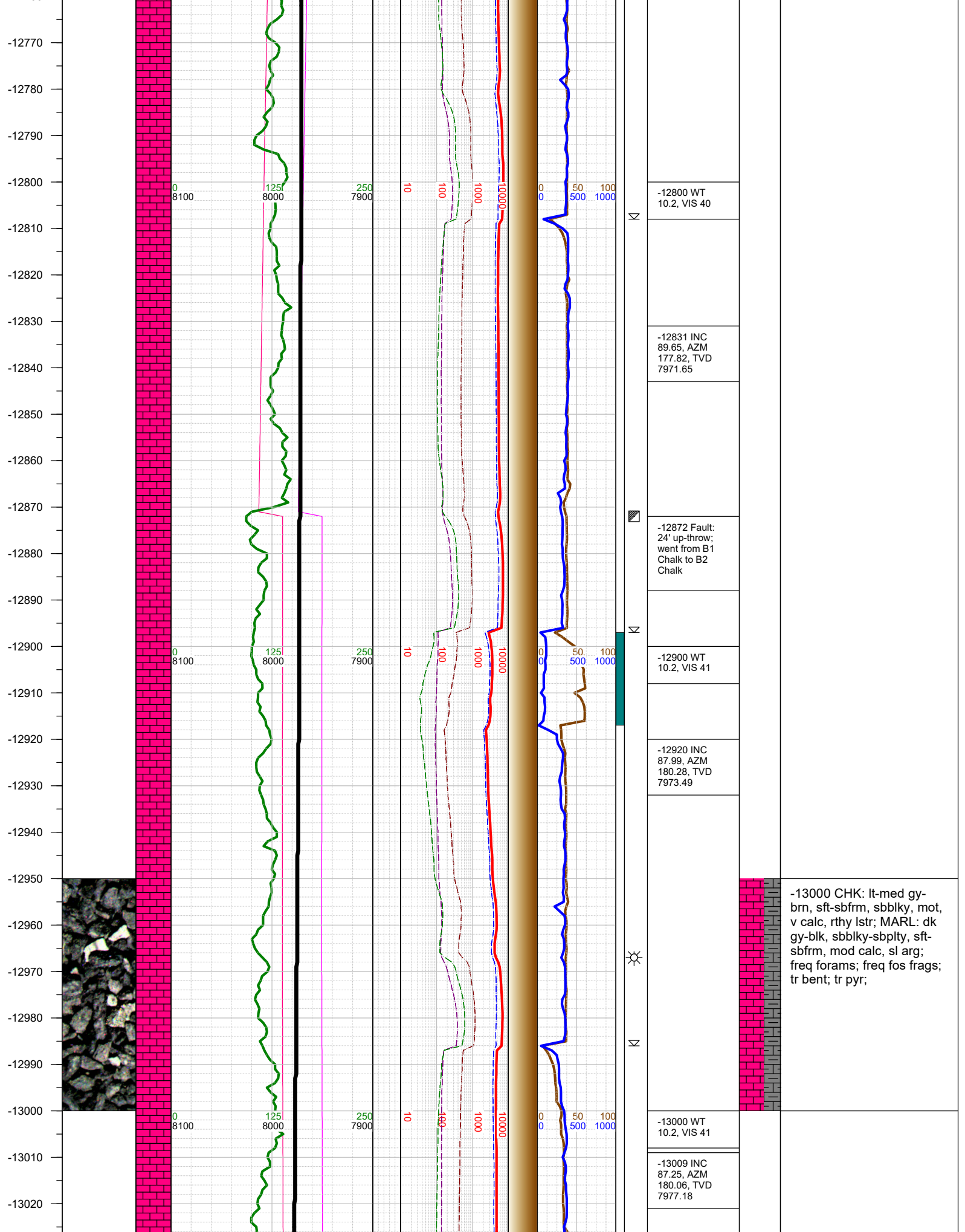




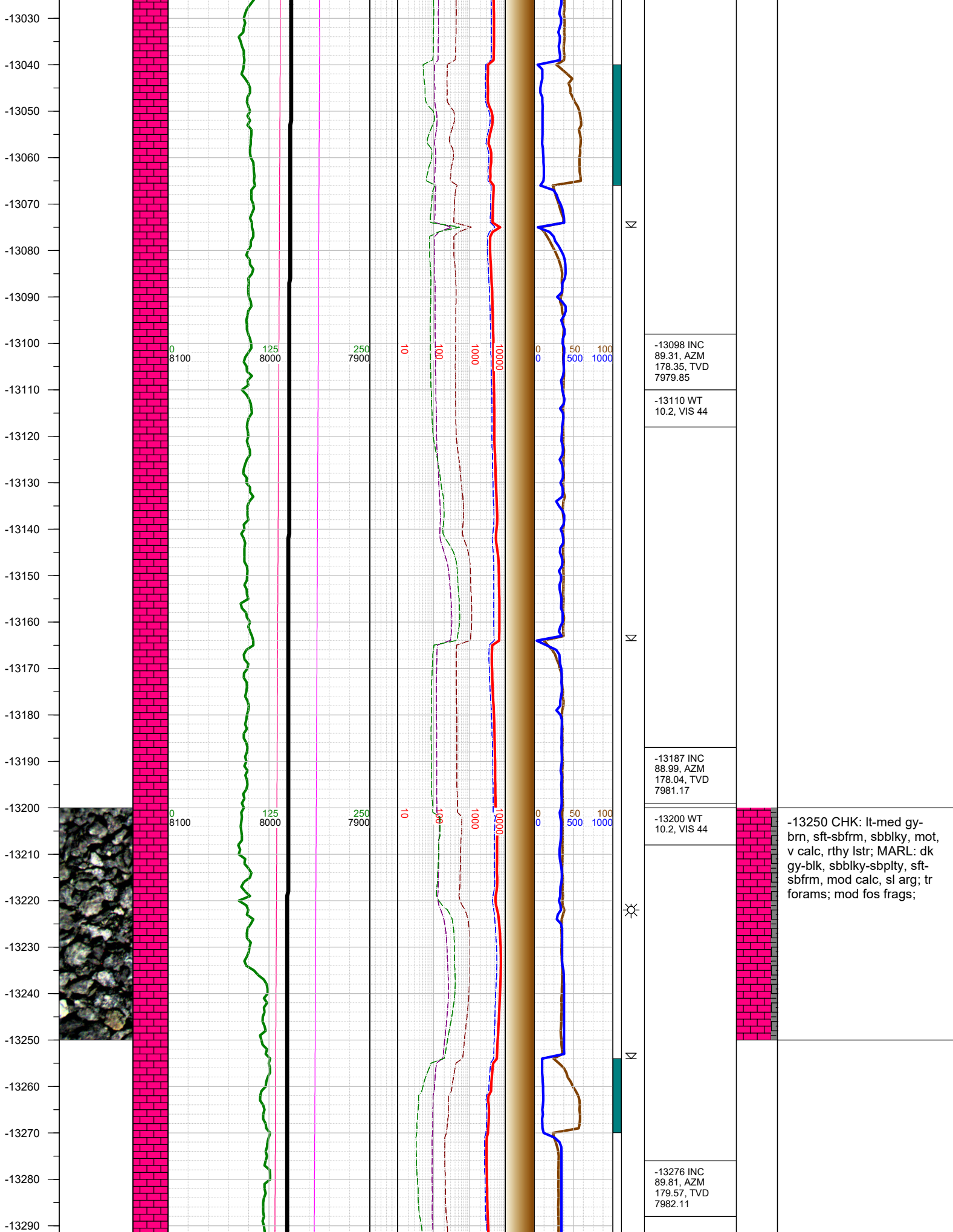




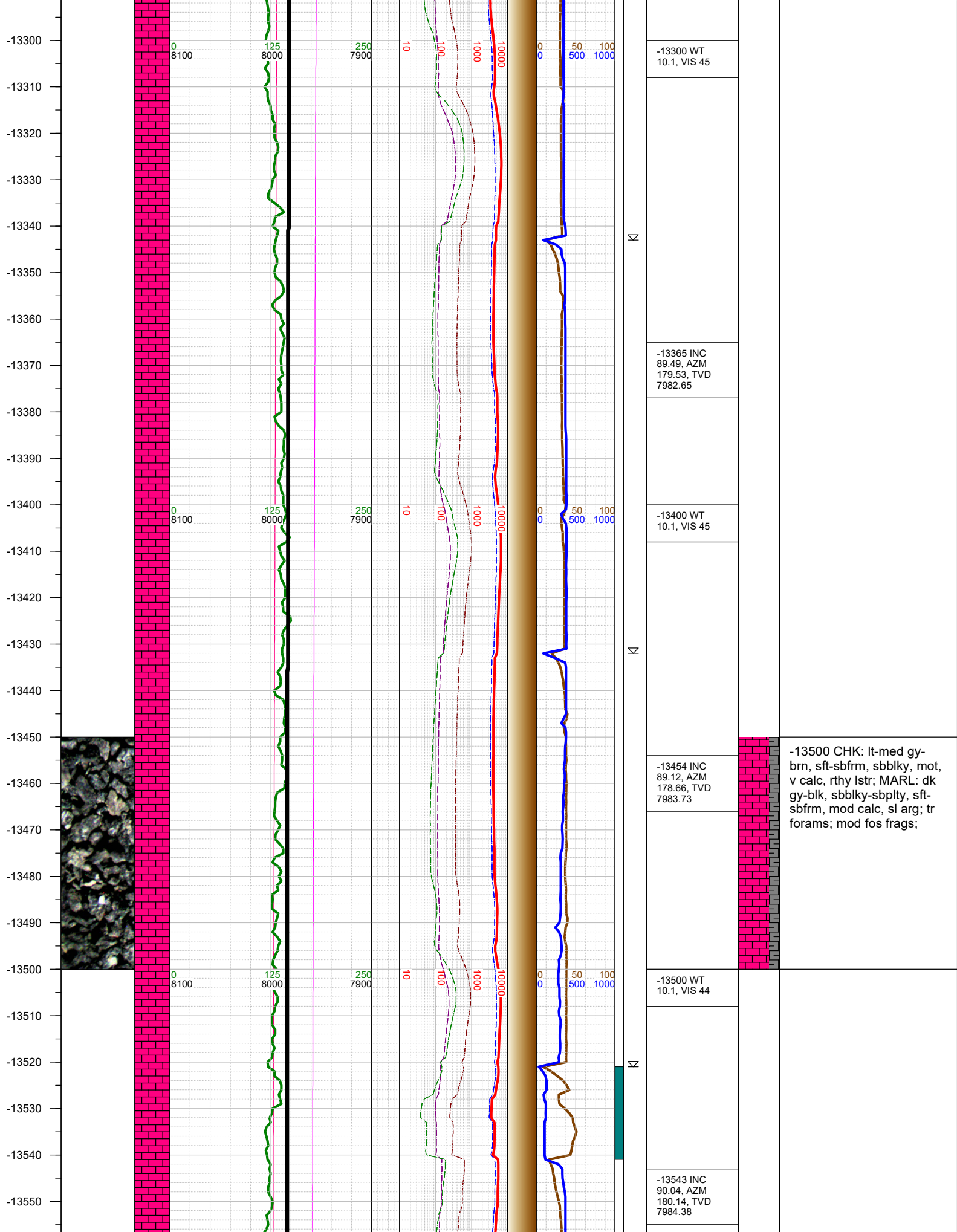




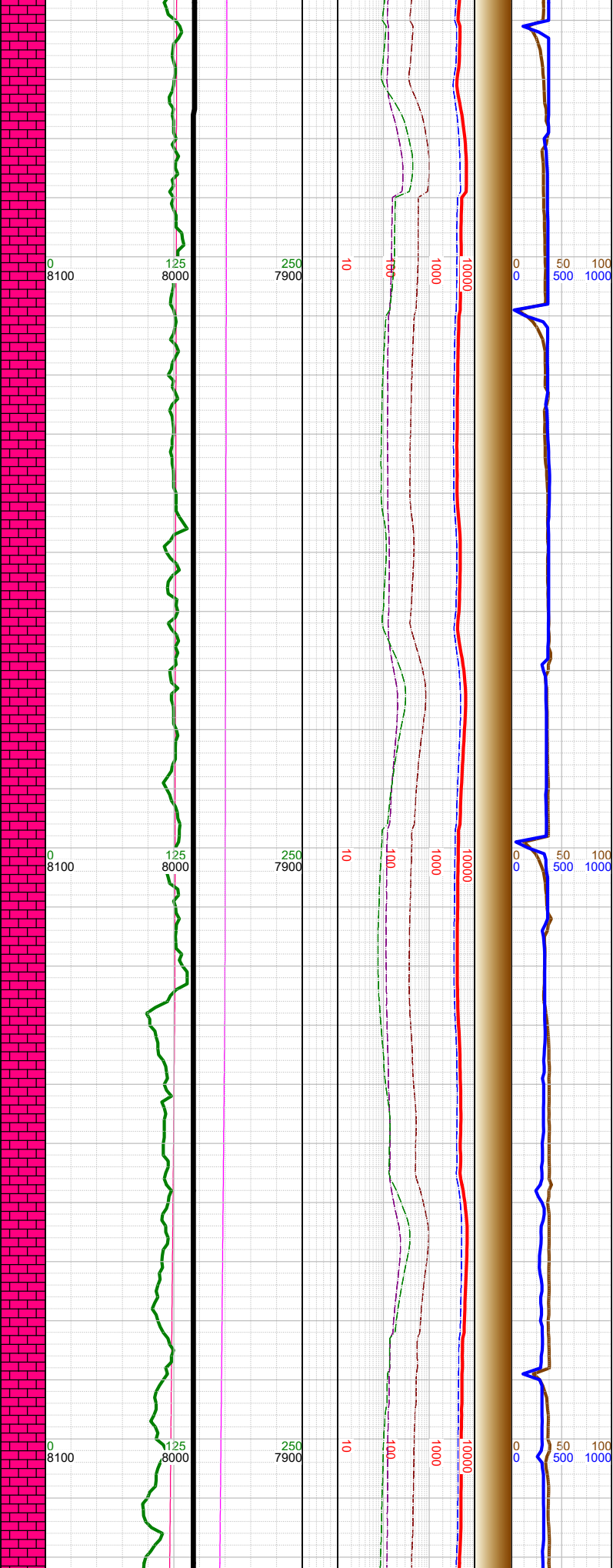
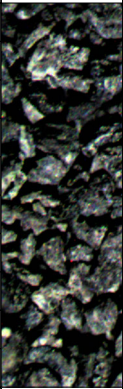








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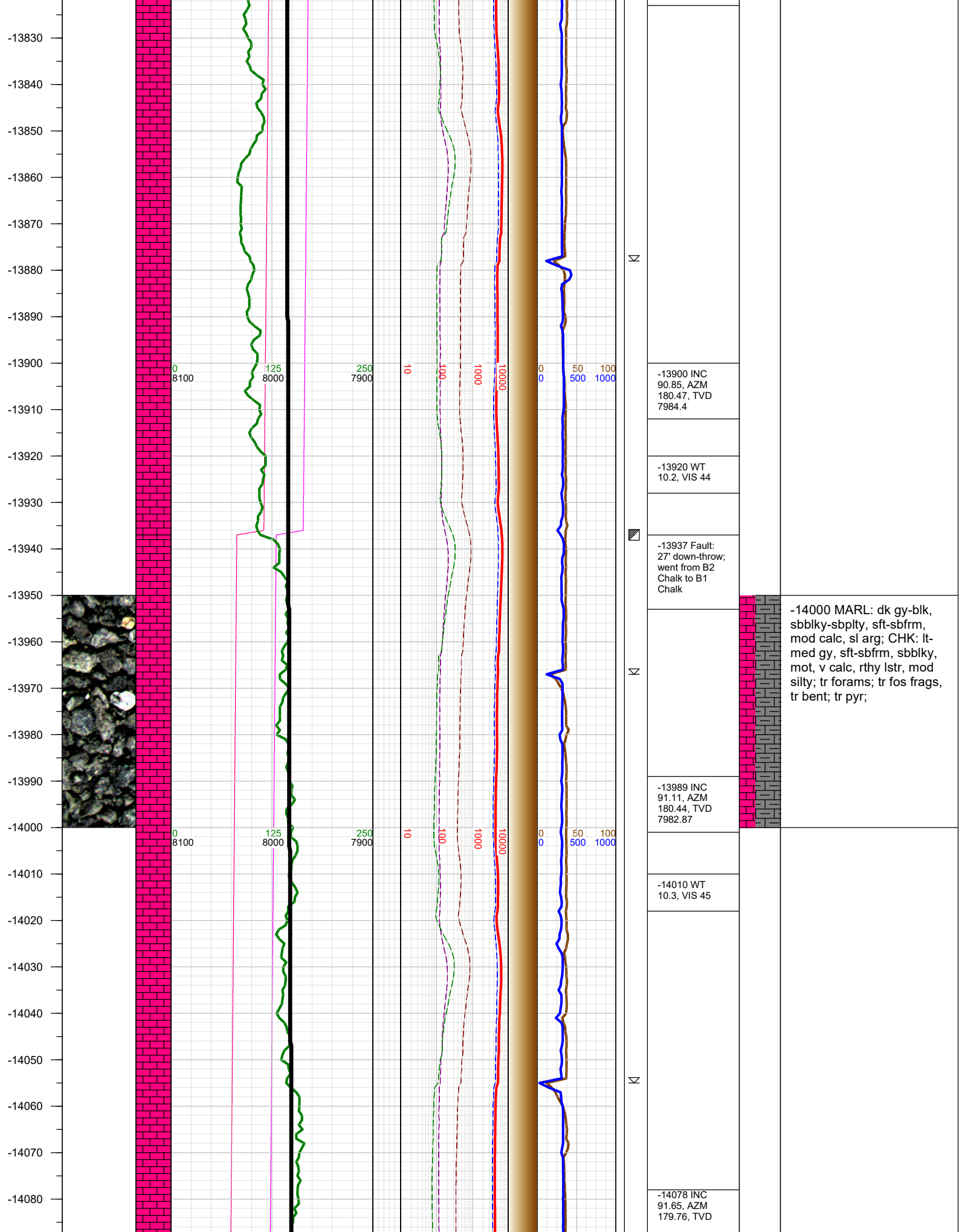


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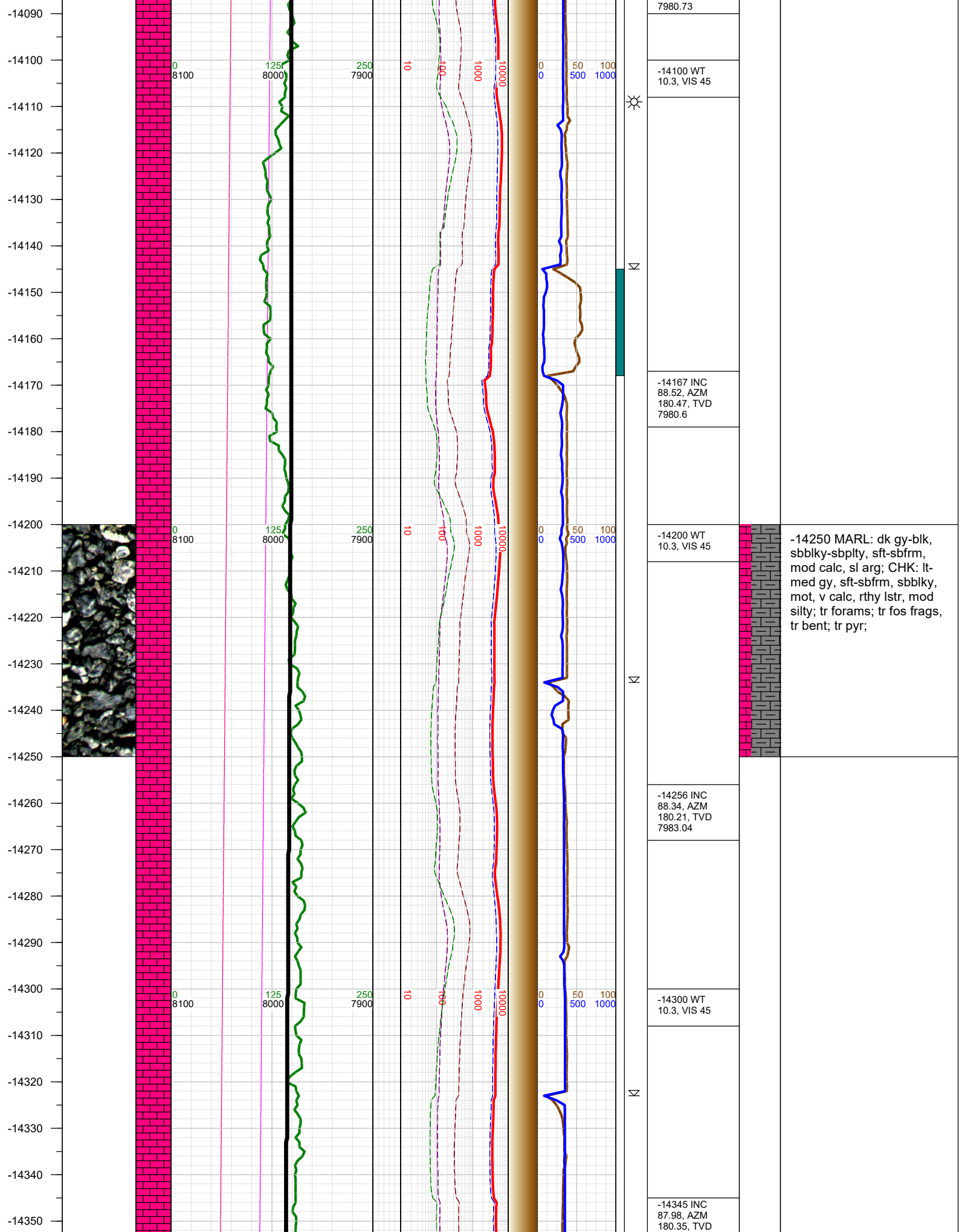
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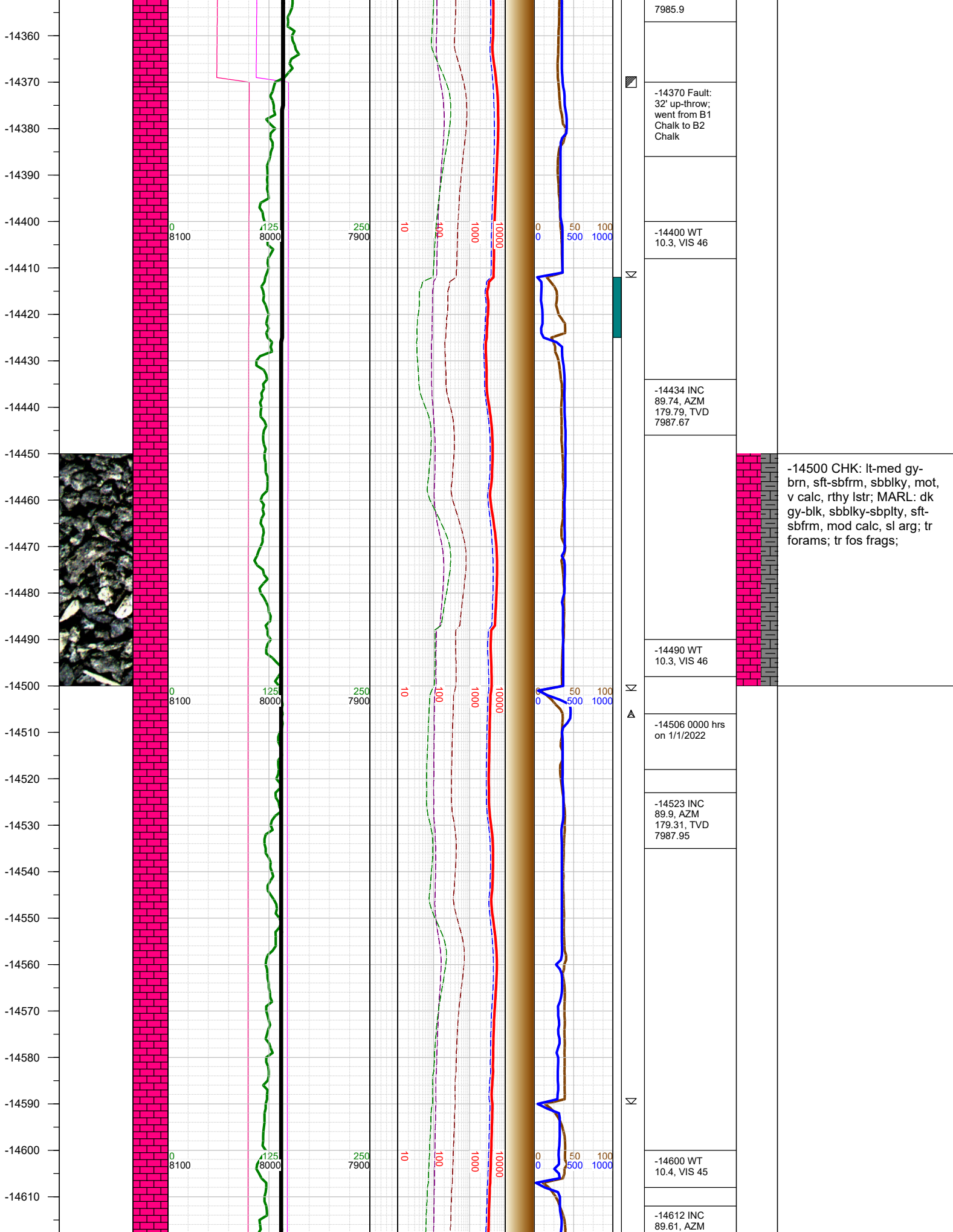
	-13600 WT 10.1, VIS 44		
	-13632 INC 89.54, AZM 180.29, TVD 7984.71		
	-13700 WT 10.2, VIS 44		-13750 CHK: lt-med gy- brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft- sbfrm, mod calc, sl arg; tr forams; tr fos frags;
	-13722 INC 89.64, AZM 180.23, TVD 7985.35		
	-13800 WT 10.2, VIS 44		
	-13811 INC 90.37, AZM 180.2, TVD 7985.34		

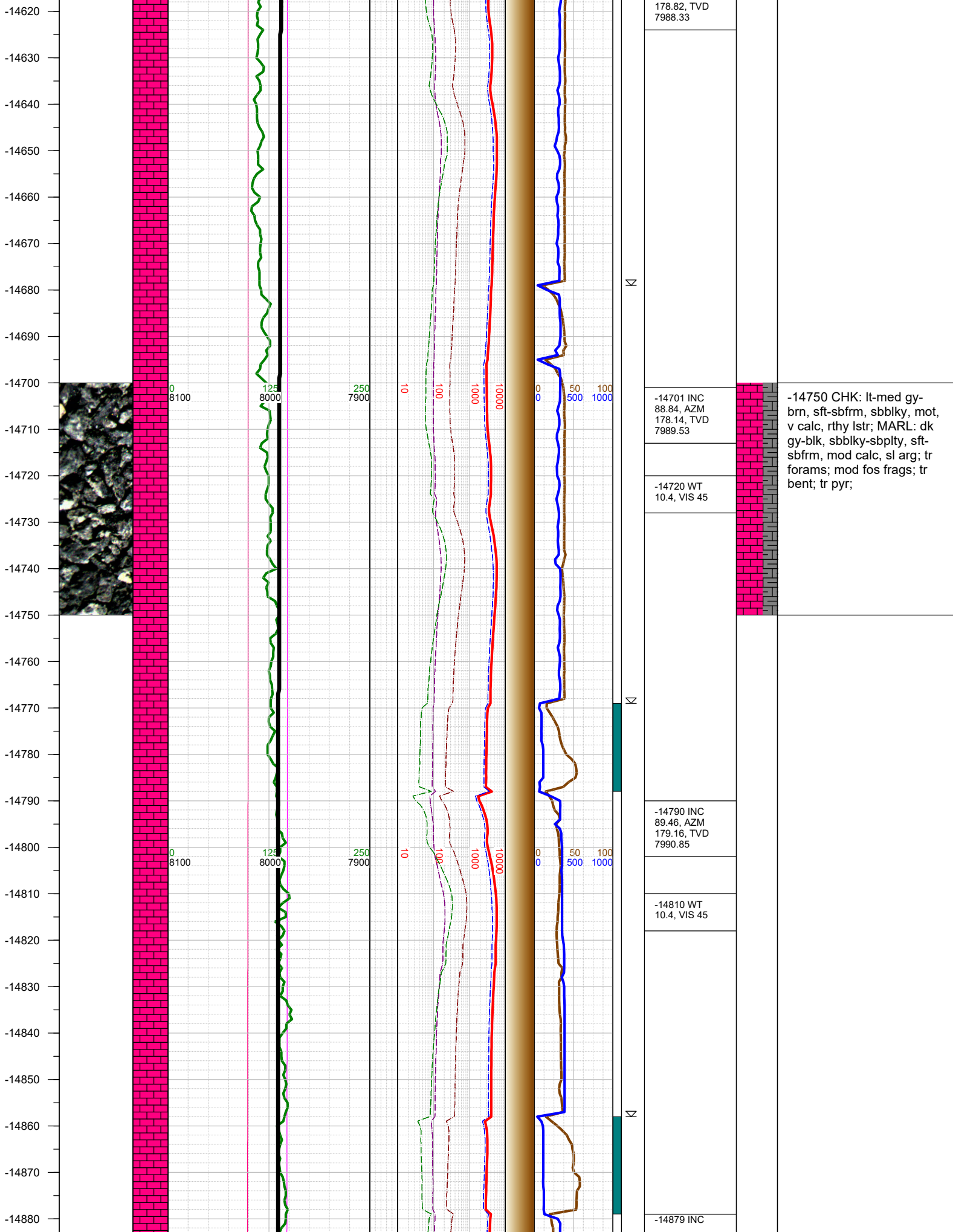


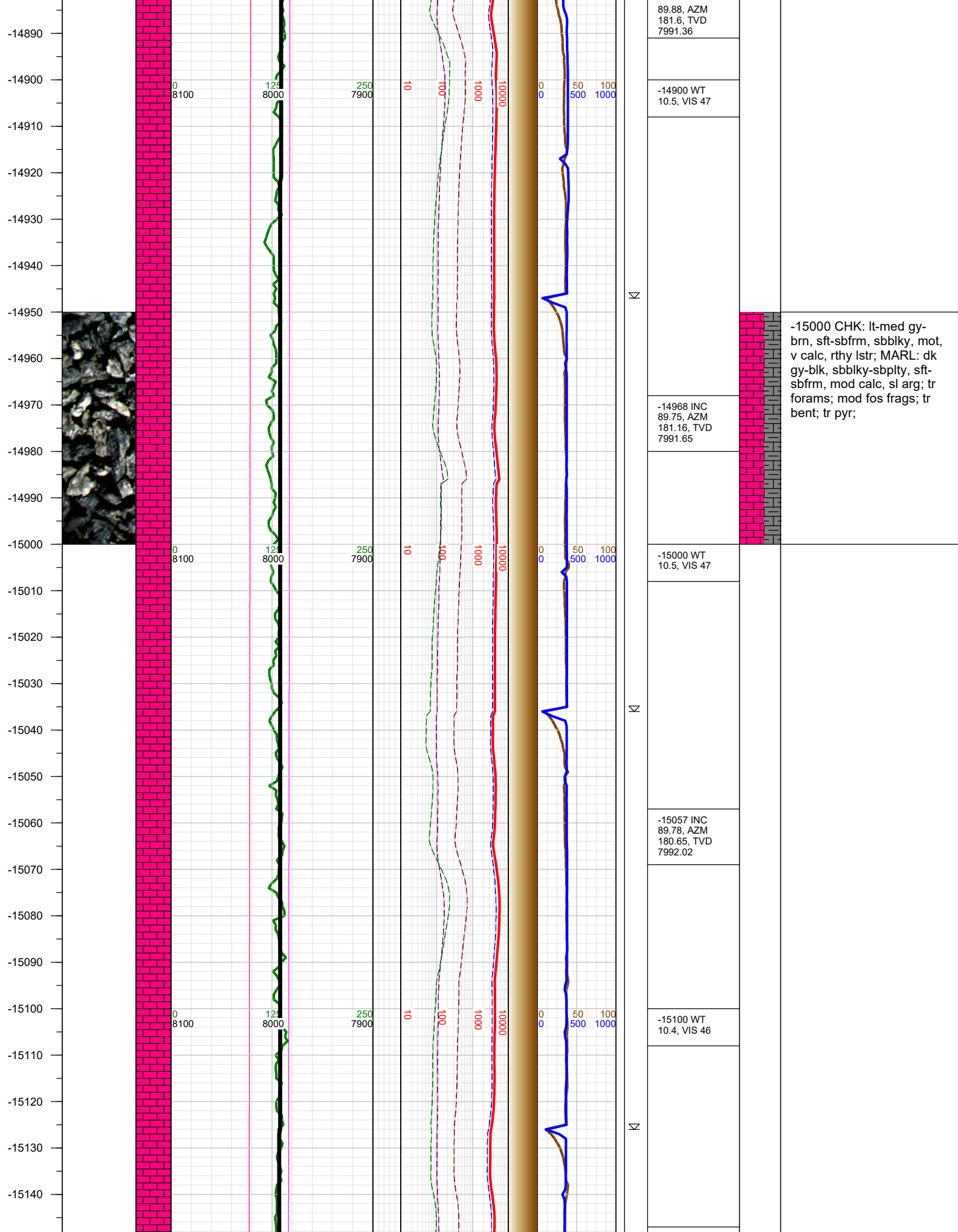




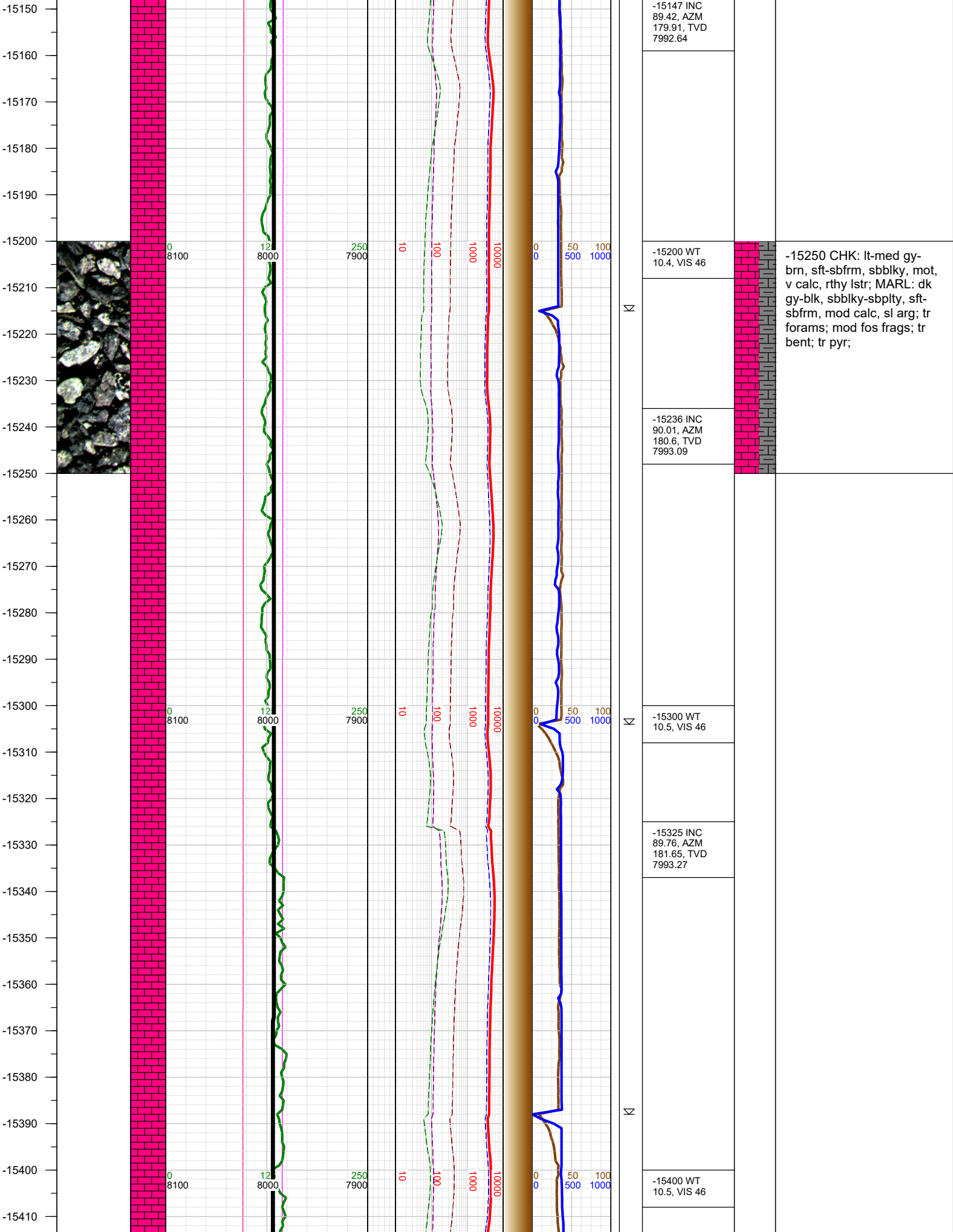






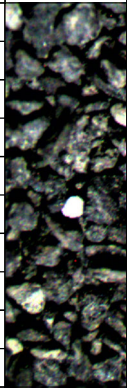








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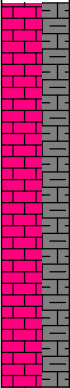
-15414 INC  
89.6, AZM 181,  
TVD 7993.76

-15503 INC  
88.83, AZM 179.17, TVD 7994.98

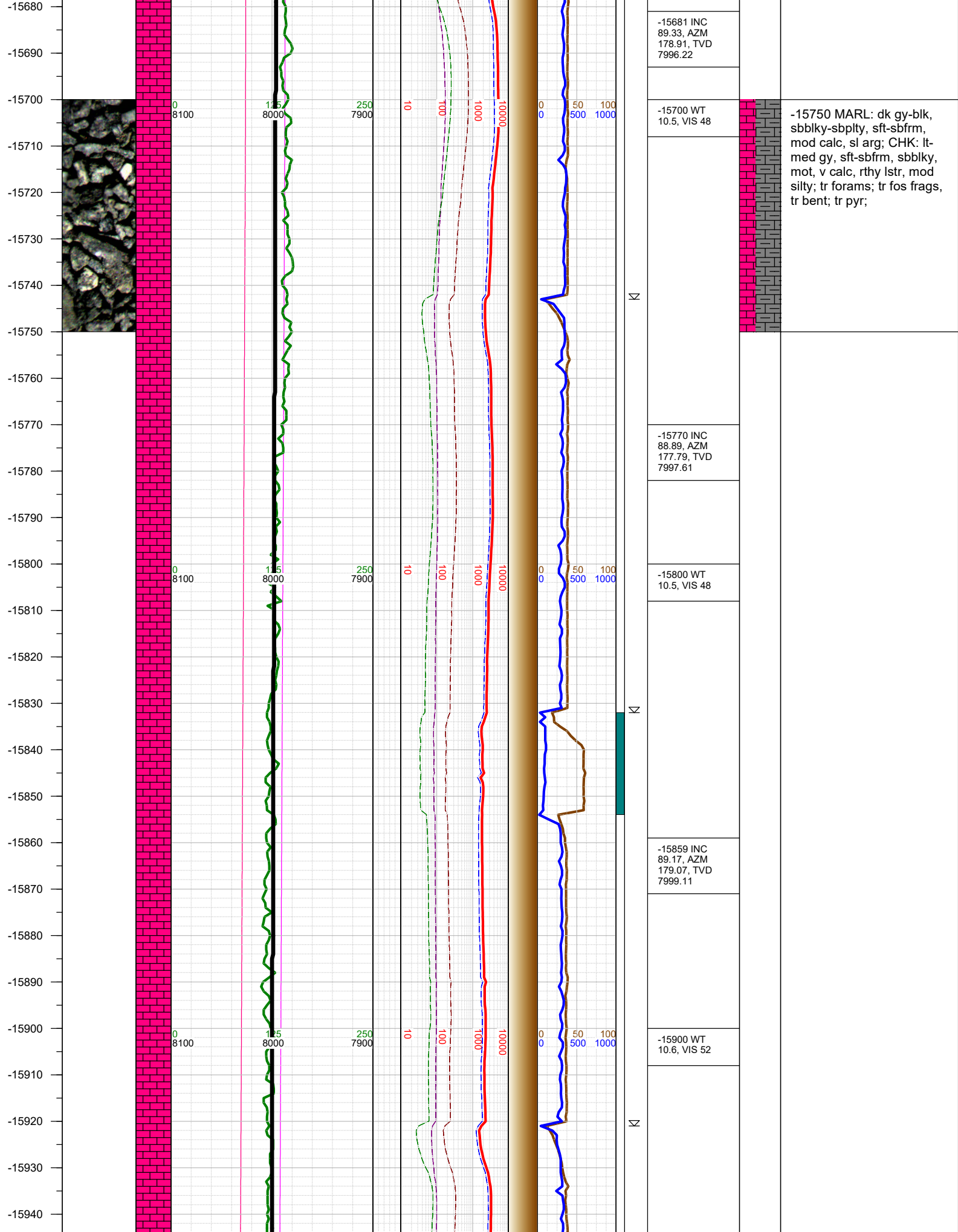
-15520 WT  
10.5, VIS 48

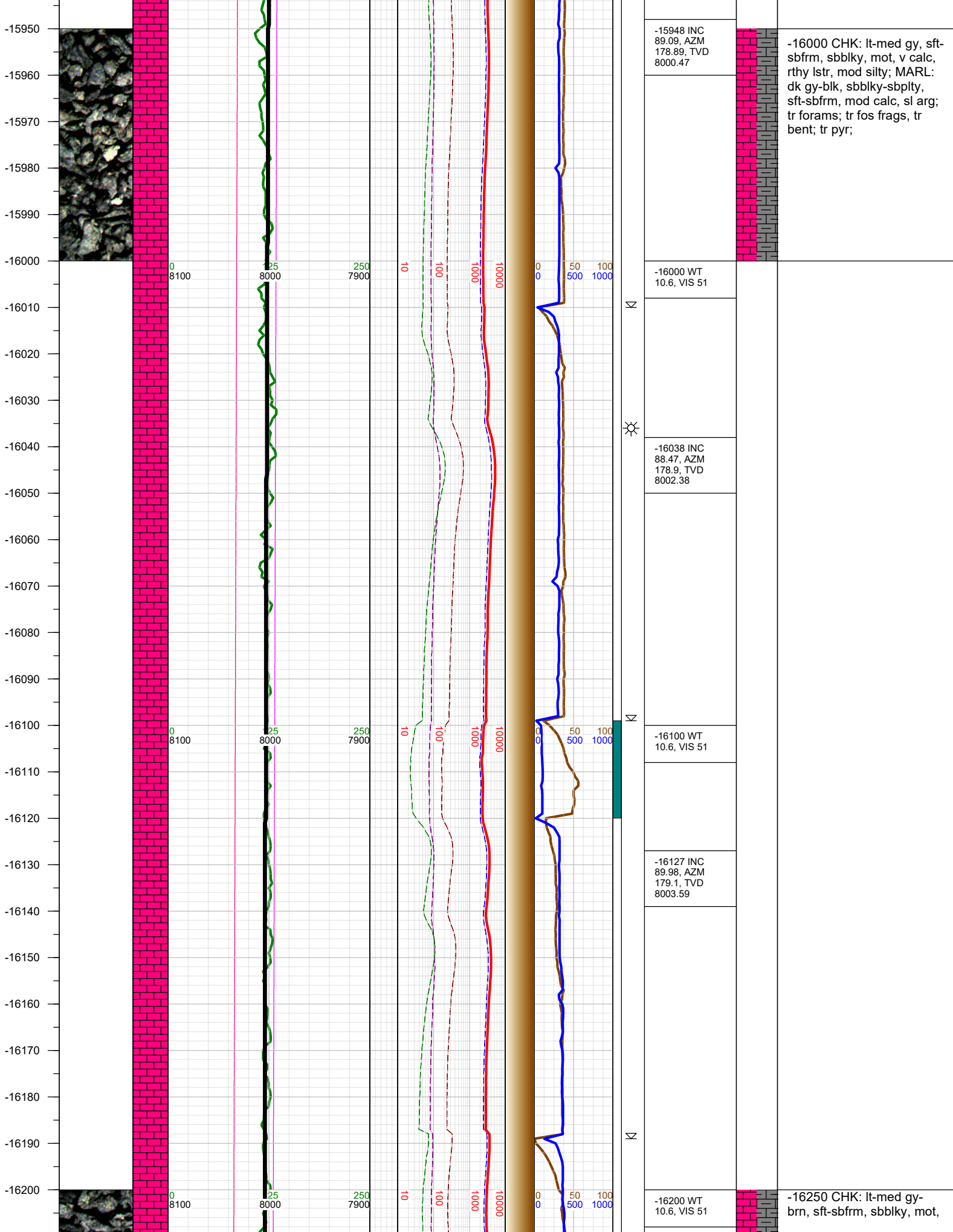
-15592 INC  
90.12, AZM 181.03, TVD 7995.8

-15610 WT  
10.5, VIS 48

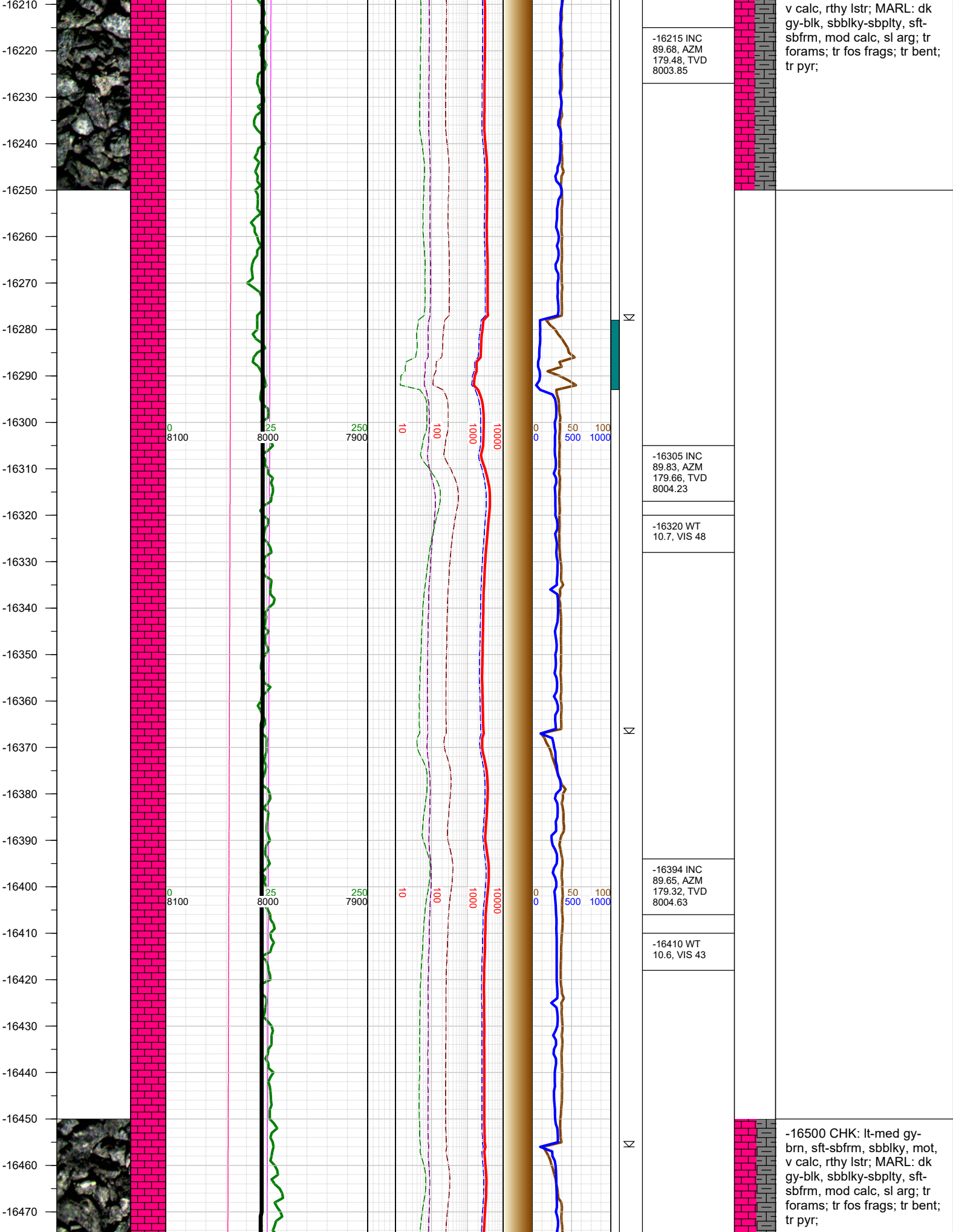


-15500 CHK: lt-med gy-brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbply, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; tr bent; tr pyr;

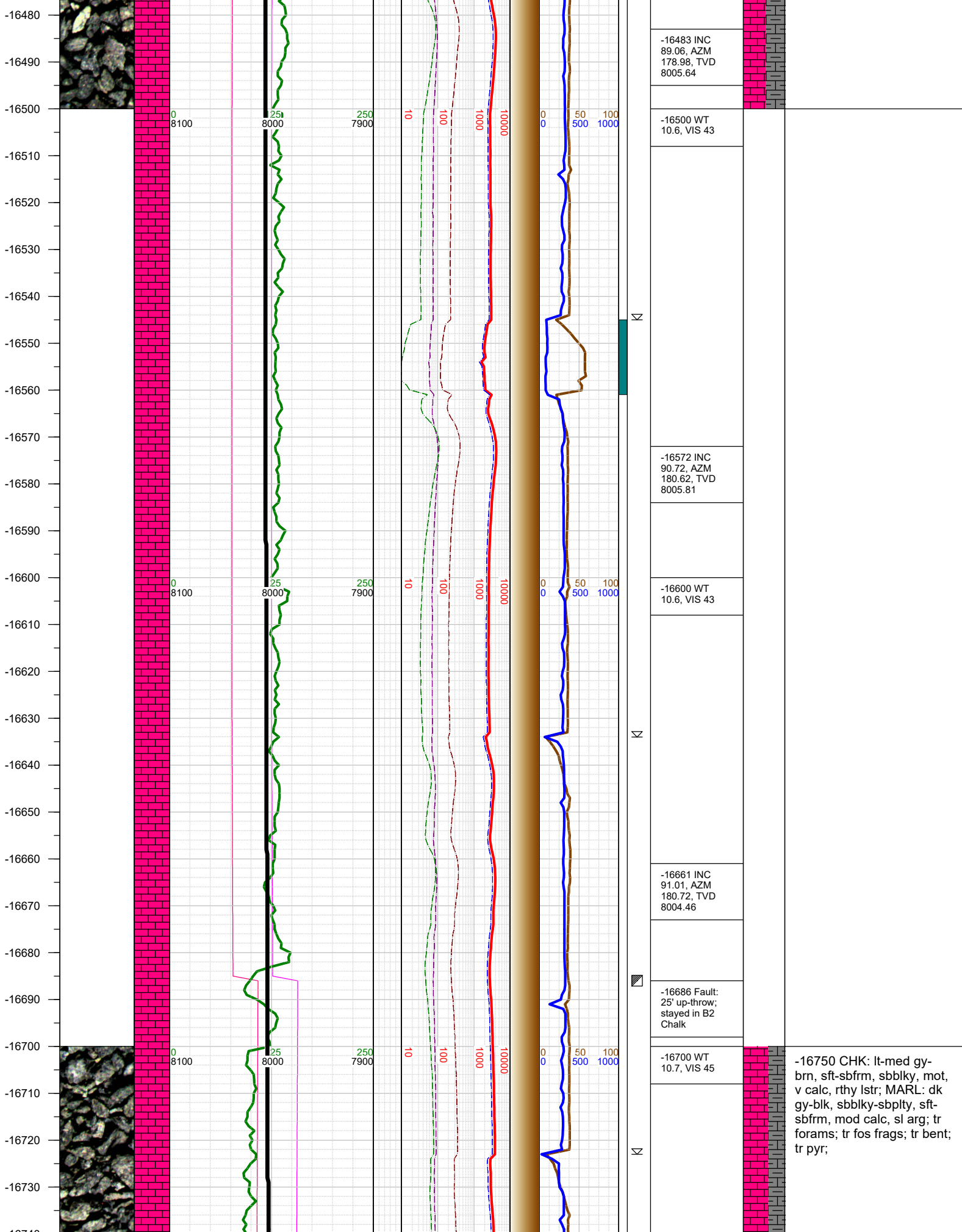












-16483 INC  
89.06, AZM  
178.98, TVD  
8005.64

-16500 WT  
10.6, VIS 43

-16572 INC  
90.72, AZM  
180.62, TVD  
8005.81

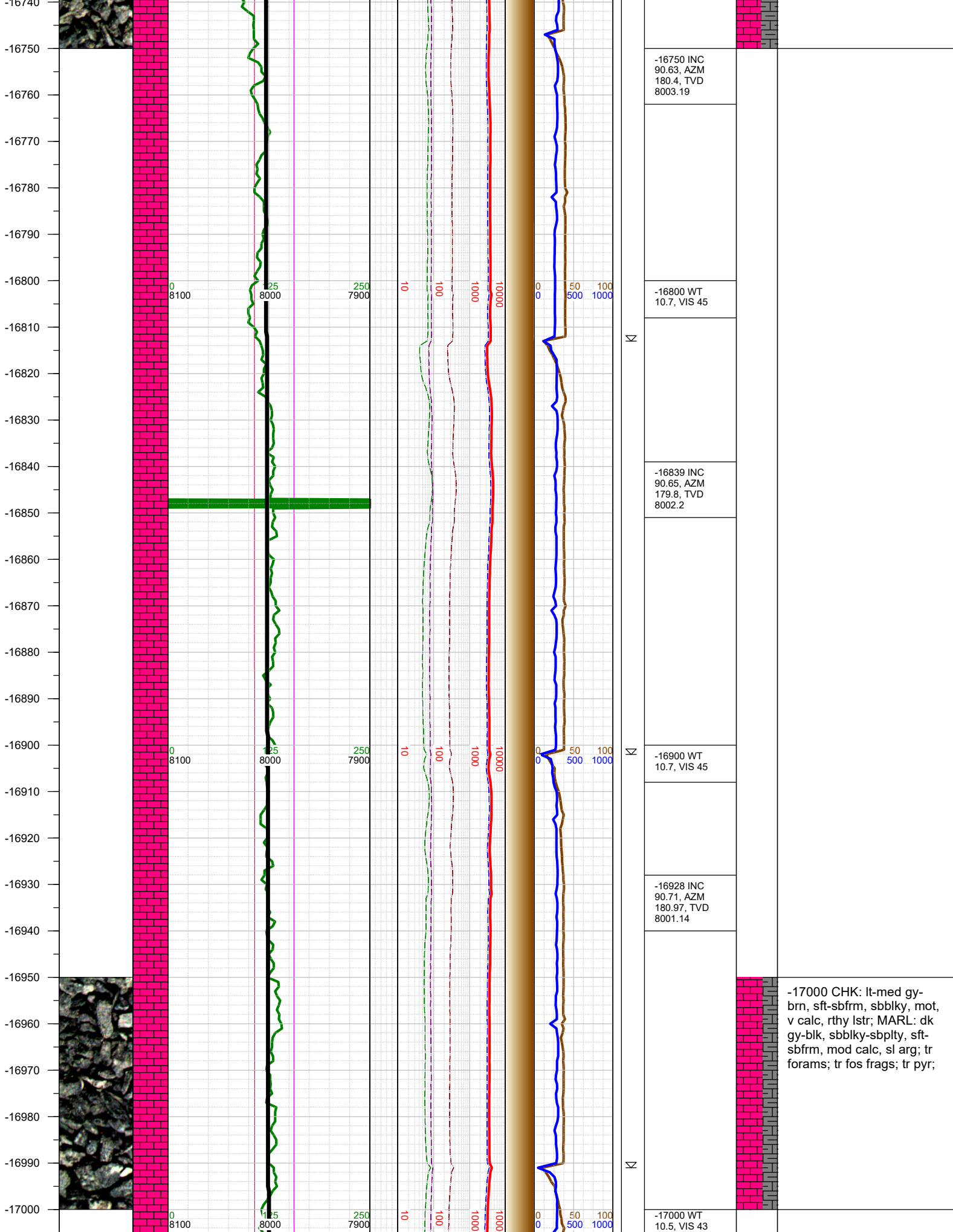
-16600 WT  
10.6, VIS 43

-16661 INC  
91.01, AZM  
180.72, TVD  
8004.46

-16686 Fault:  
25' up-throw;  
stayed in B2  
Chalk

-16700 WT  
10.7, VIS 45

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



-16750 INC  
90.63, AZM  
180.4, TVD  
8003.19

-16800 WT  
10.7, VIS 45

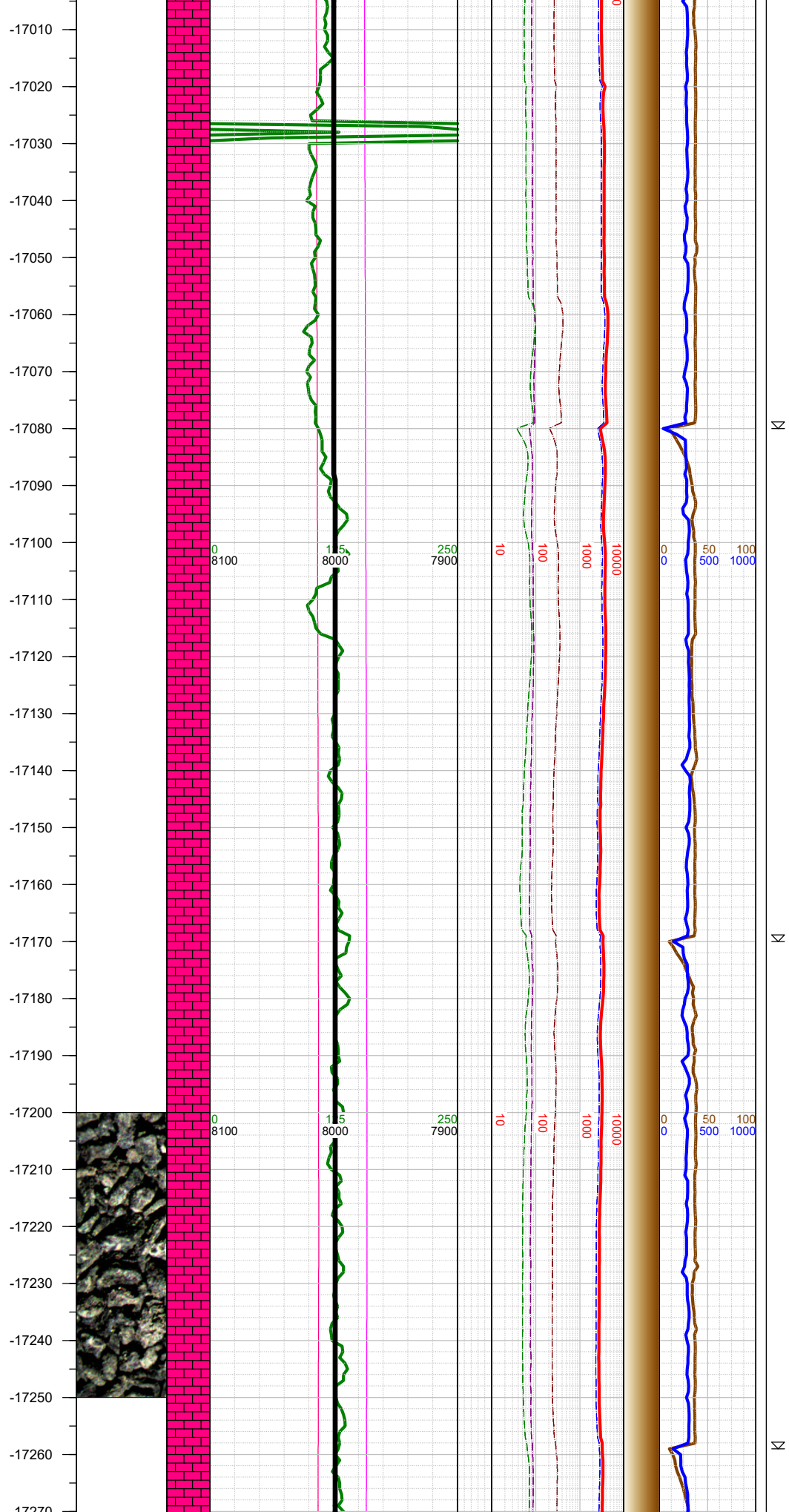
-16839 INC  
90.65, AZM  
179.8, TVD  
8002.2

-16900 WT  
10.7, VIS 45

-16928 INC  
90.71, AZM  
180.97, TVD  
8001.14

-17000 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  
forams; tr fos frags; tr pyr;

-17000 WT  
10.5, VIS 43

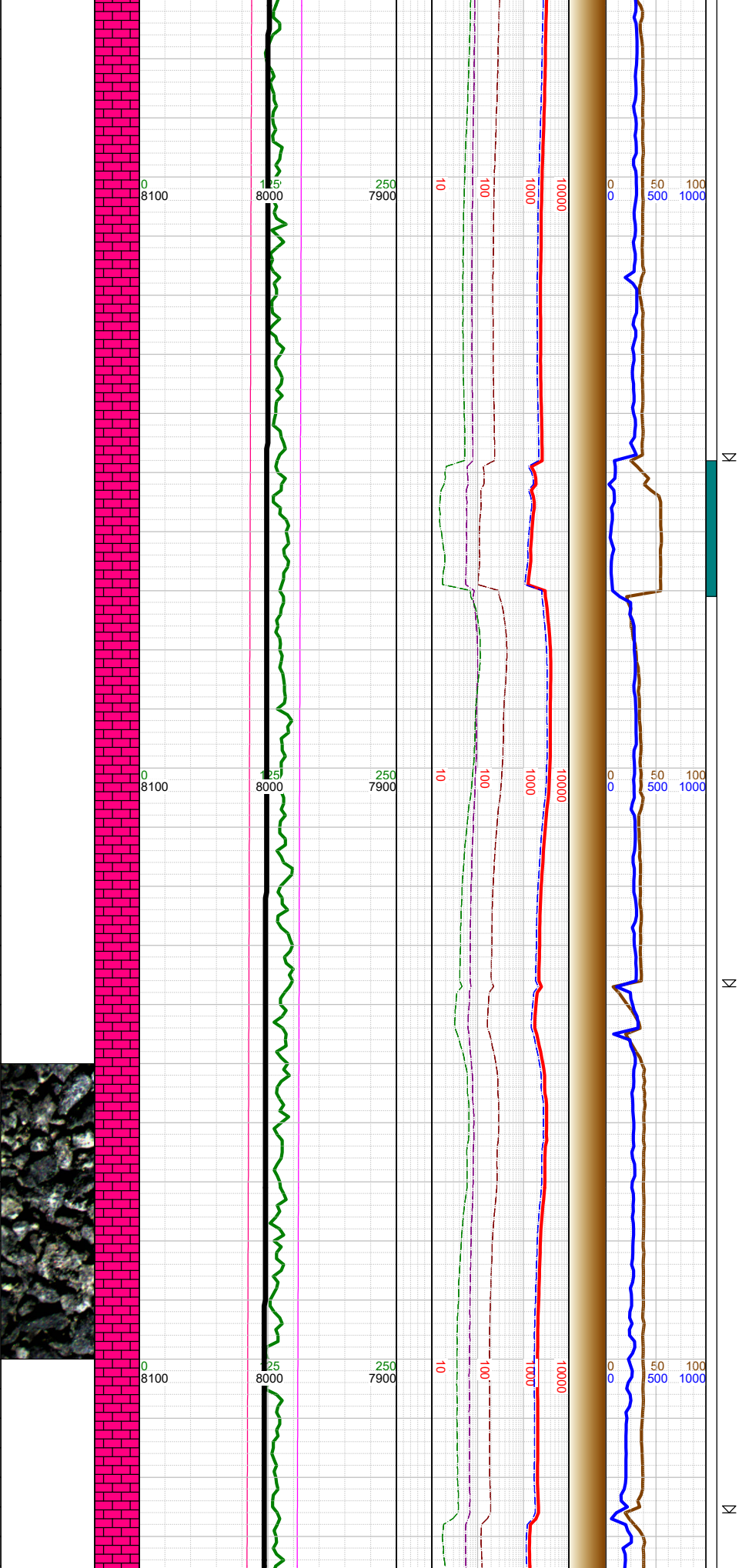


-17210 WT  
10.5, VIS 43

-17250 CHK: lt-med gy-  
brn, sft-sbfrm, sbblky, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbblky-sbplty, sft-  
sbfrm, mod calc, sl arg; tr  
forams; tr fos frags; tr pyr;



-17270  
-17280  
-17290  
-17300  
-17310  
-17320  
-17330  
-17340  
-17350  
-17360  
-17370  
-17380  
-17390  
-17400  
-17410  
-17420  
-17430  
-17440  
-17450  
-17460  
-17470  
-17480  
-17490  
-17500  
-17510  
-17520  
-17530



-17284 INC  
89.01, AZM  
177.36, TVD  
7999.59

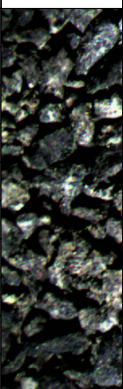
-17300 WT  
10.5, VIS 44

-17373 INC  
89.3, AZM  
180.2, TVD  
8000.9

-17400 WT  
10.5, VIS 45

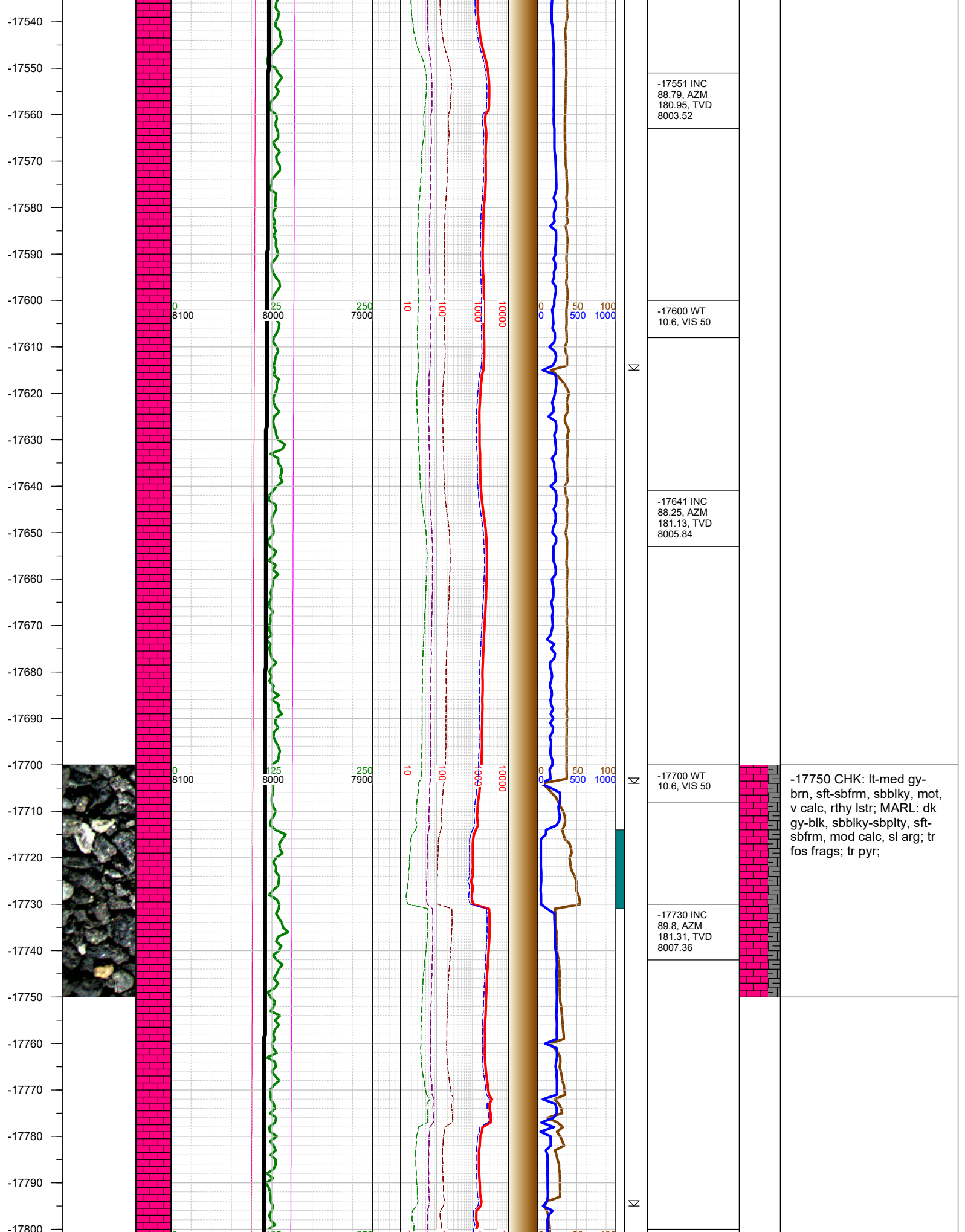
-17462 INC  
89.27, AZM  
180.27, TVD  
8002.01

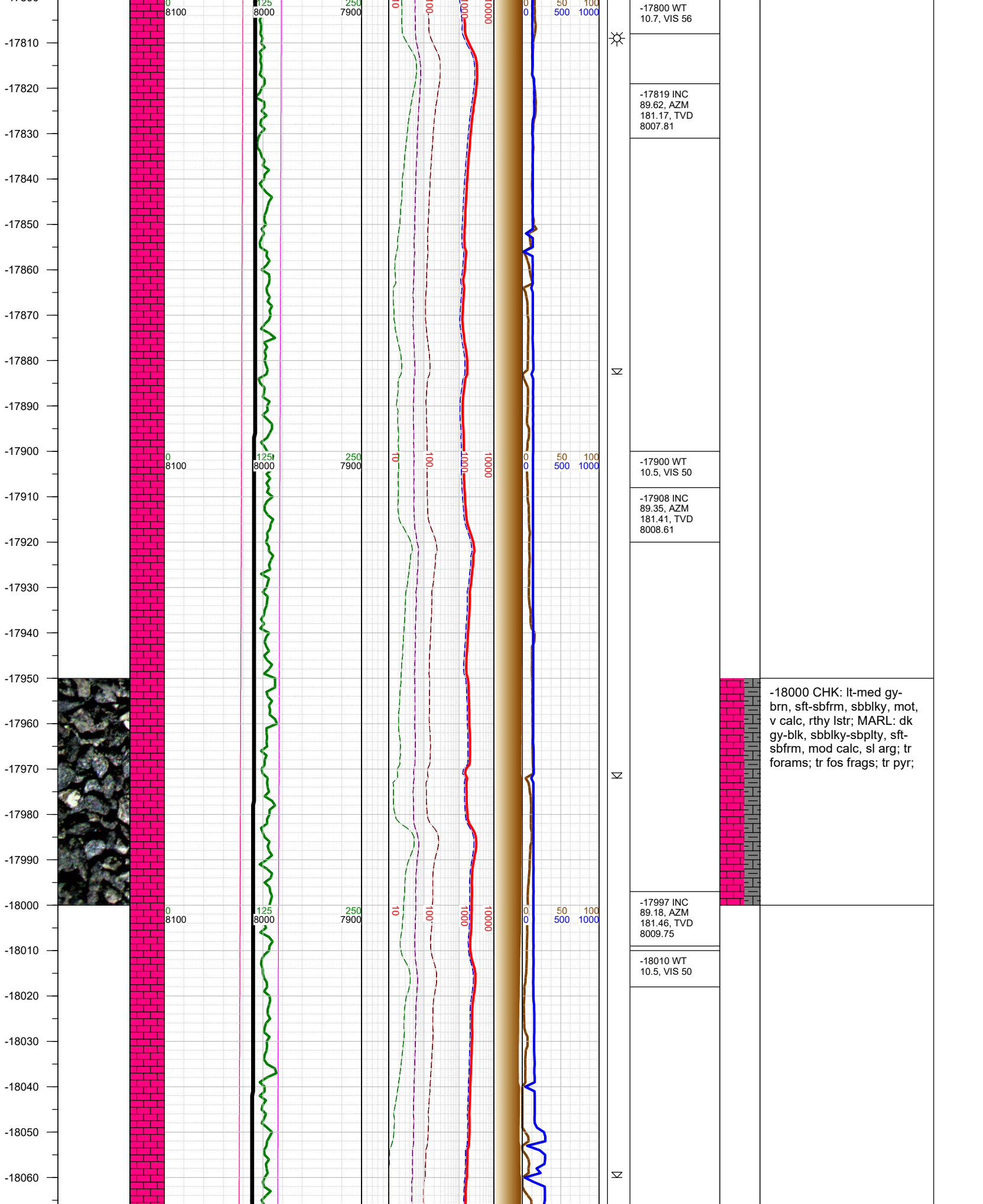
-17500 WT  
10.5, VIS 45

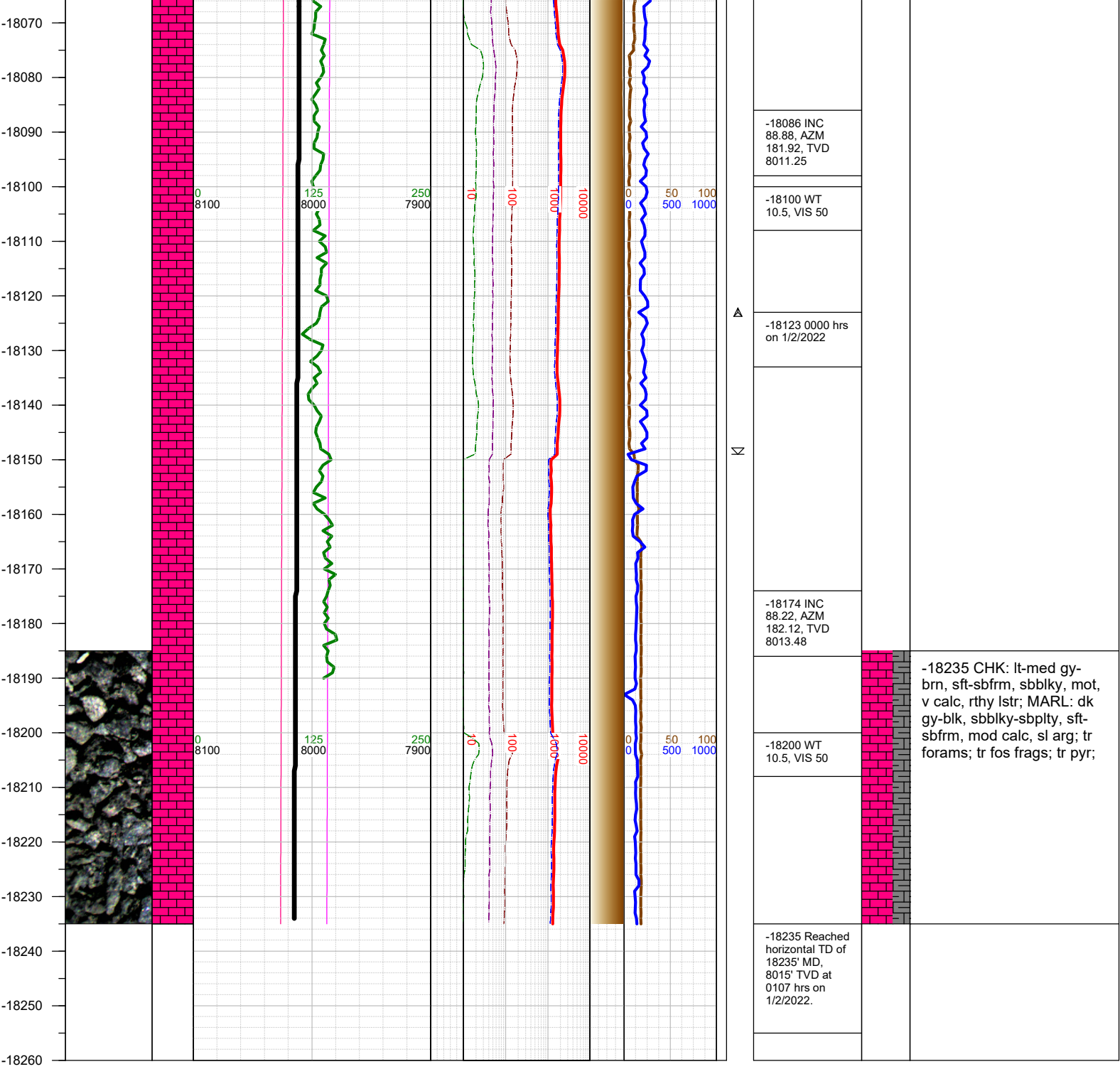


-17500 CHK: lt-med gy-  
brn, sft-sbfrm, sbbkly, mot,  
v calc, rthy lstr; MARL: dk  
gy-blk, sbbkly-sbplty, sft-  
sbfrm, mod calc, sl arg; tr  
forams; tr fos frags; tr pyr;









TOTAL DEPTH = 18235'

Thank you for using Earth Science Agency