

OPERATOR: **Extraction Oil & Gas**  
WELL NAME: **Coyote Trails 33S-20-4N**

FIELD NAME: DJ Basin - Wattenberg  
DRILLING RIG: Ensign 147  
API #: 05-123-45992

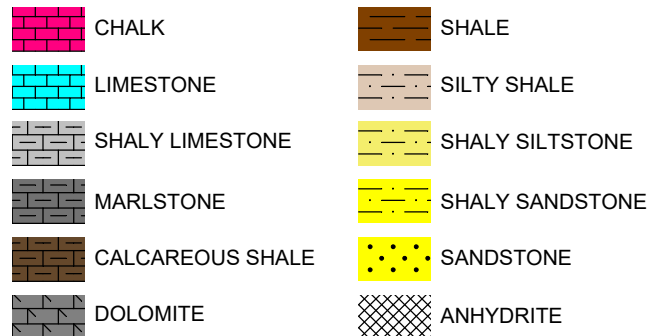
LAT/LONG: 40.017976, -105.007088  
SURFACE HOLE: SWSE S28-T1N-R68W, 1148' FSL, 2247' FEL  
BOTTOM HOLE: S4-T1N-R68W, 150' FSL, 2213' FEL



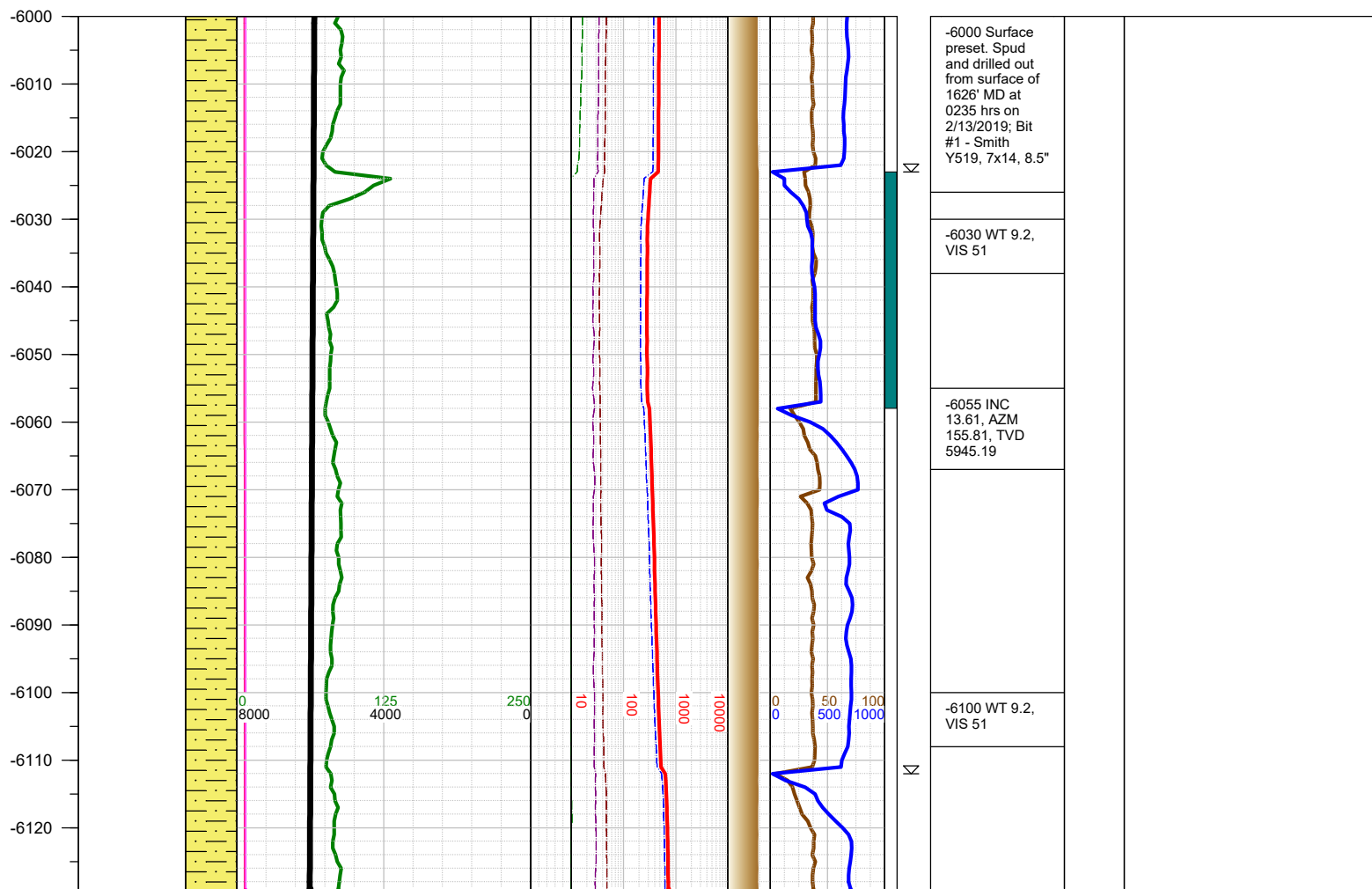
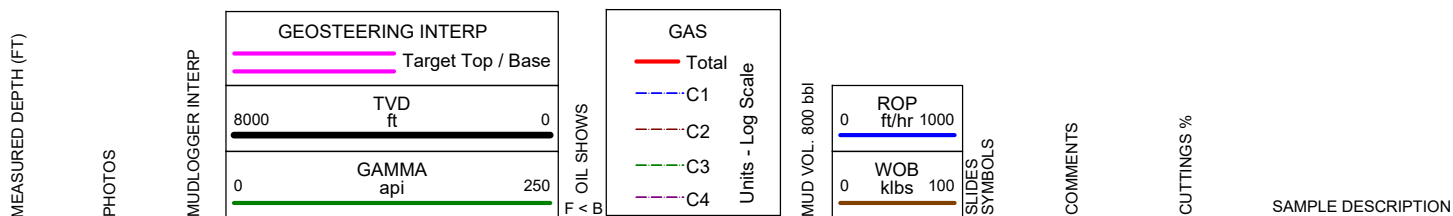
Earth Science Agency, LLC

COUNTY: Weld  
STATE: Colorado  
GROUND ELEVATION: 5271'  
KELLY BUSHING: 5298'  
DRILLING FLUID: OBM  
TVD VS. MD: 7785' / 17751'  
SPUD DATE: February 13, 2019  
TD DATE: February 16, 2019  
  
DEPTHS LOGGED: 6000' - 17751'  
DATES LOGGED: February 13, 2019 - February 16, 2019  
GEOLOGISTS: Curtis Magnino, Dan Jacobs  
SCALE: 5" = 100'

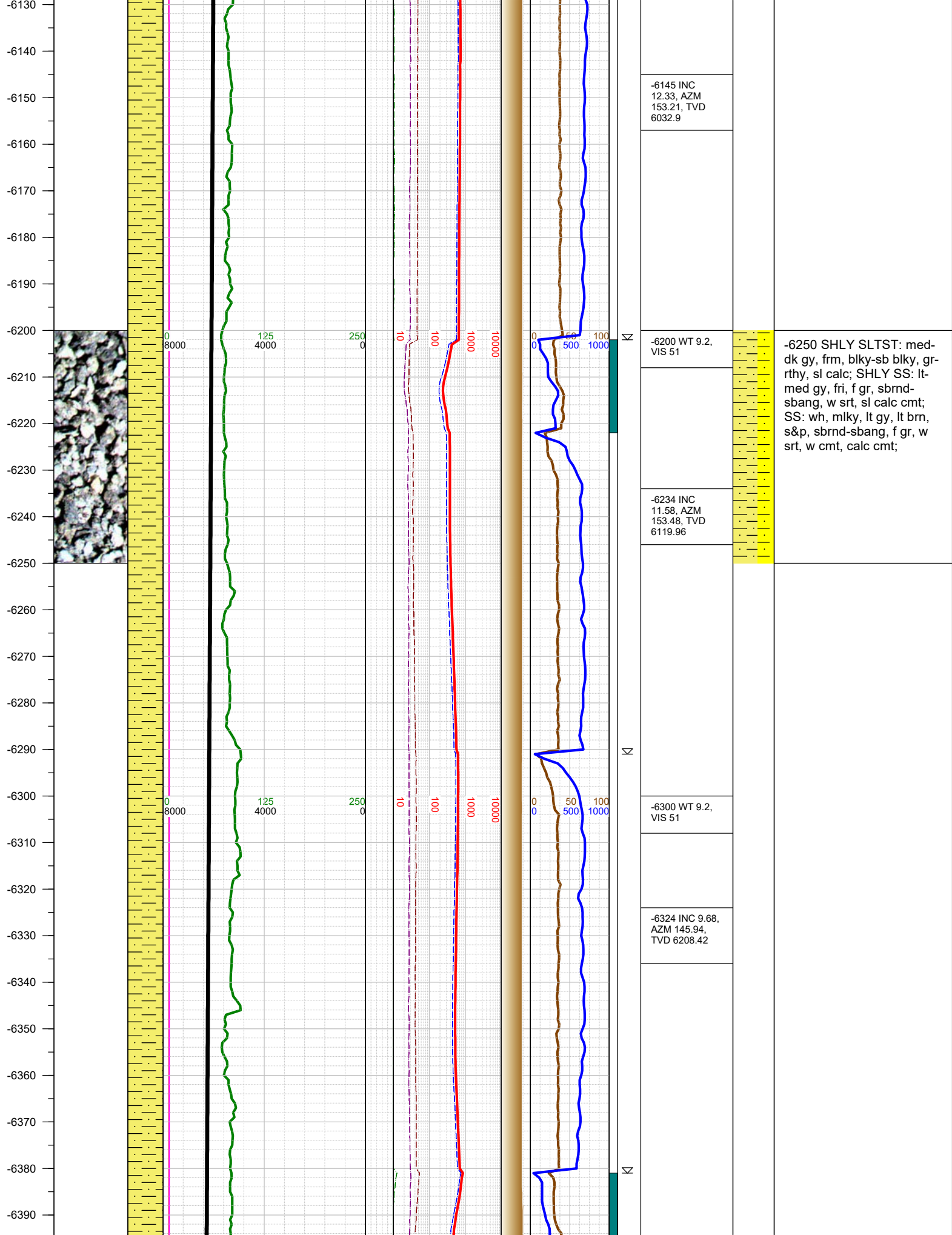
#### LEGEND

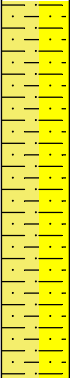
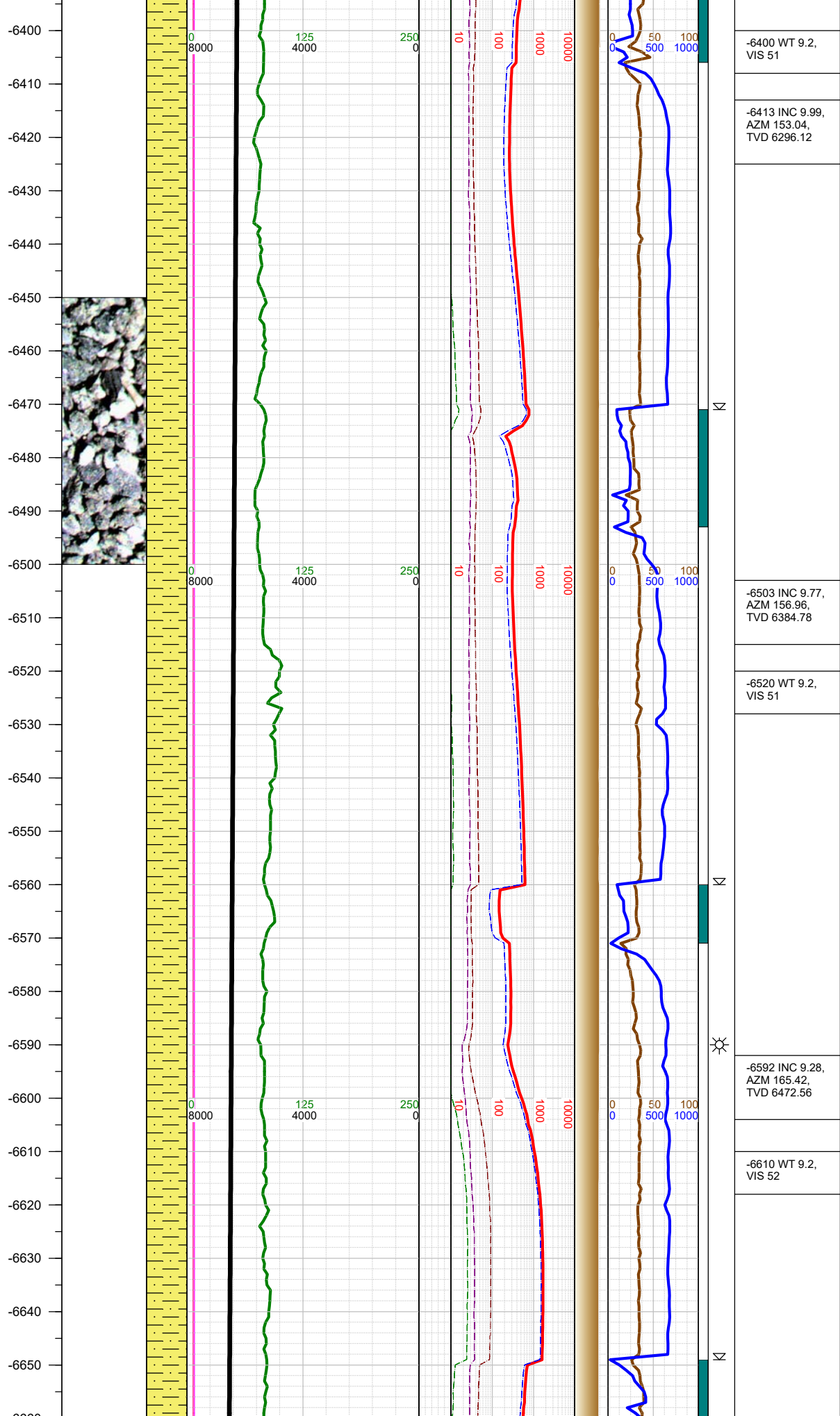


FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

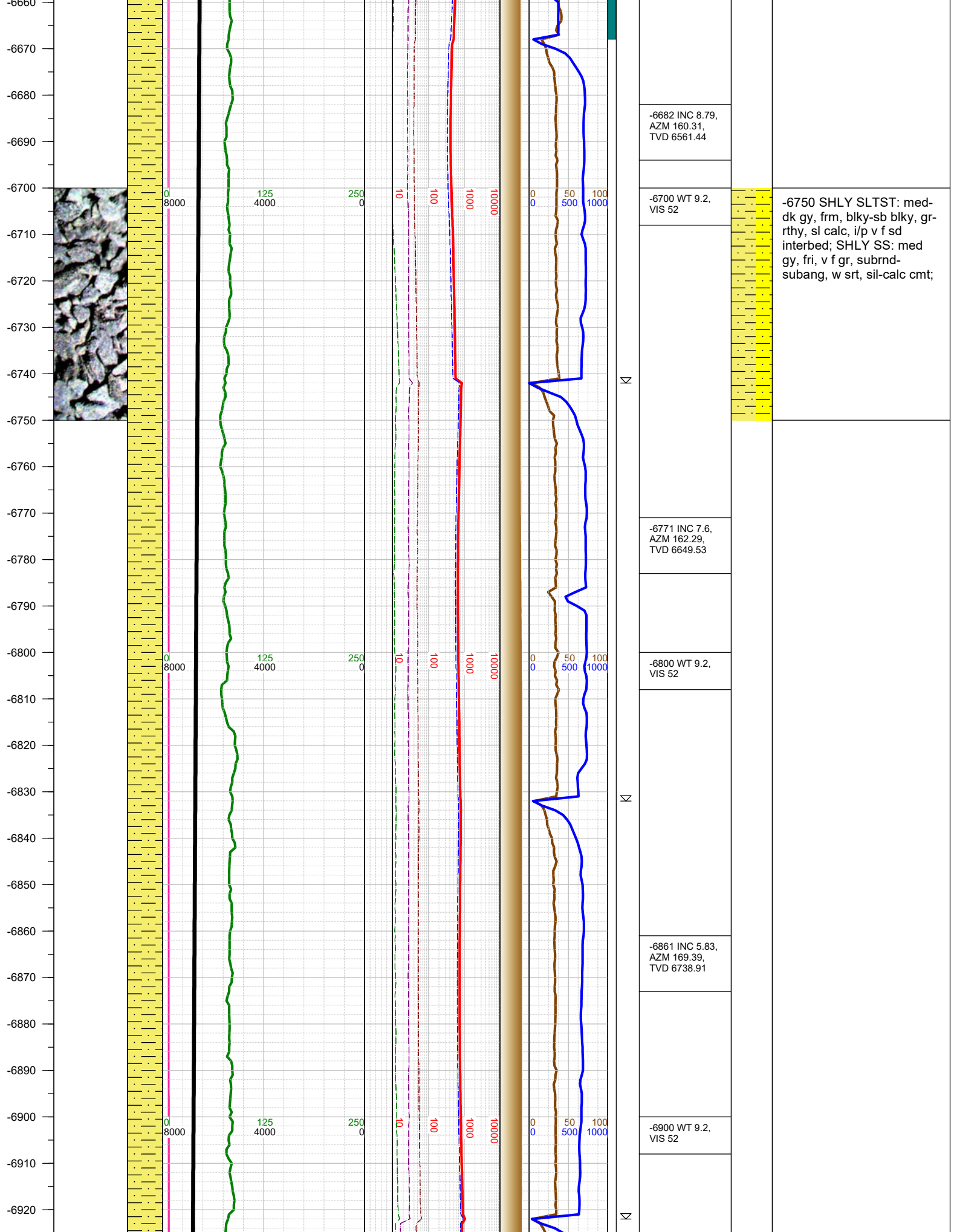


-6000 Surface preset. Spud and drilled out from surface of 1626' MD at 0235 hrs on 2/13/2019; Bit #1 - Smith Y519, 7x14, 8.5"
-6030 WT 9.2, VIS 51
-6055 INC 13.61, AZM 155.81, TVD 5945.19
-6100 WT 9.2, VIS 51

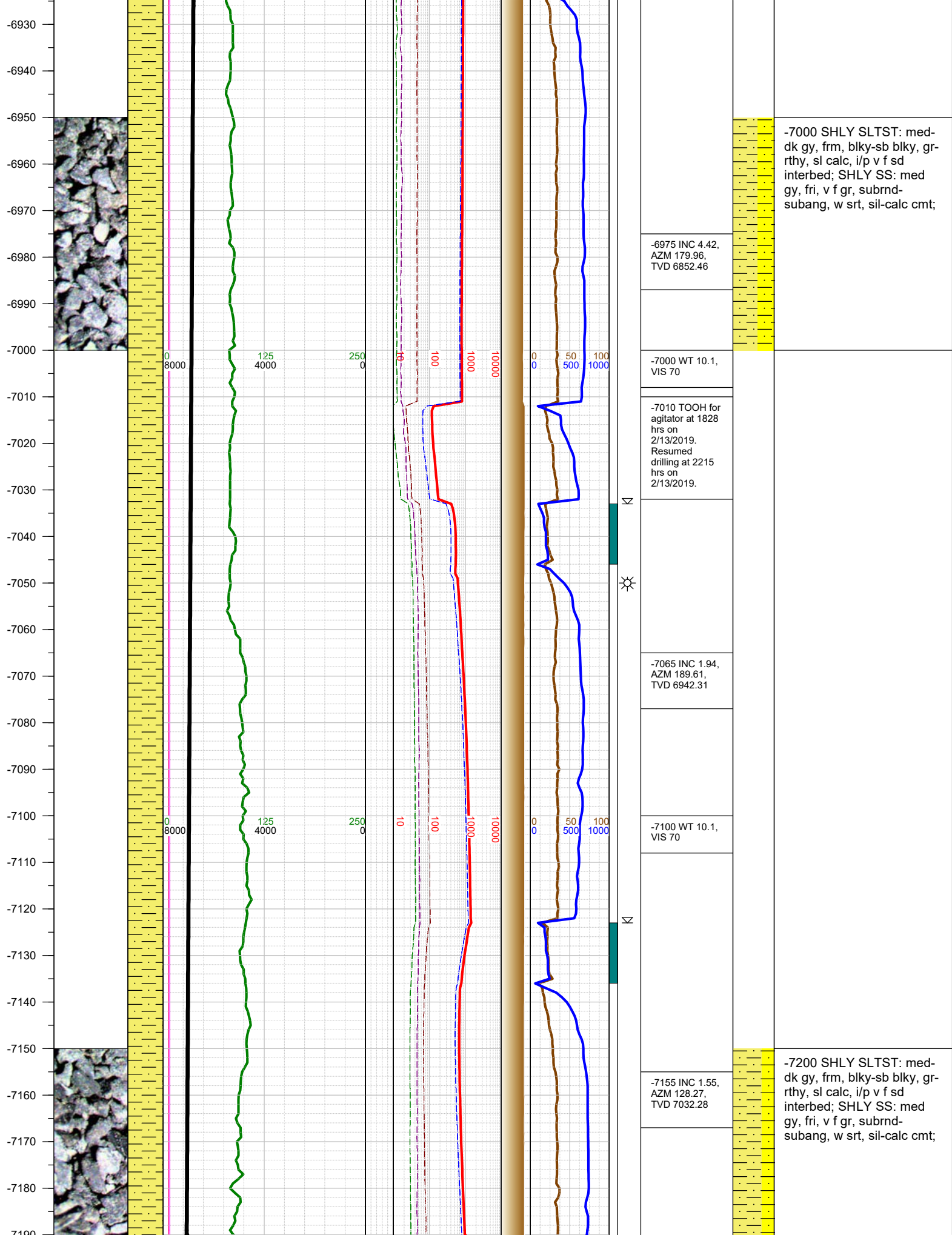


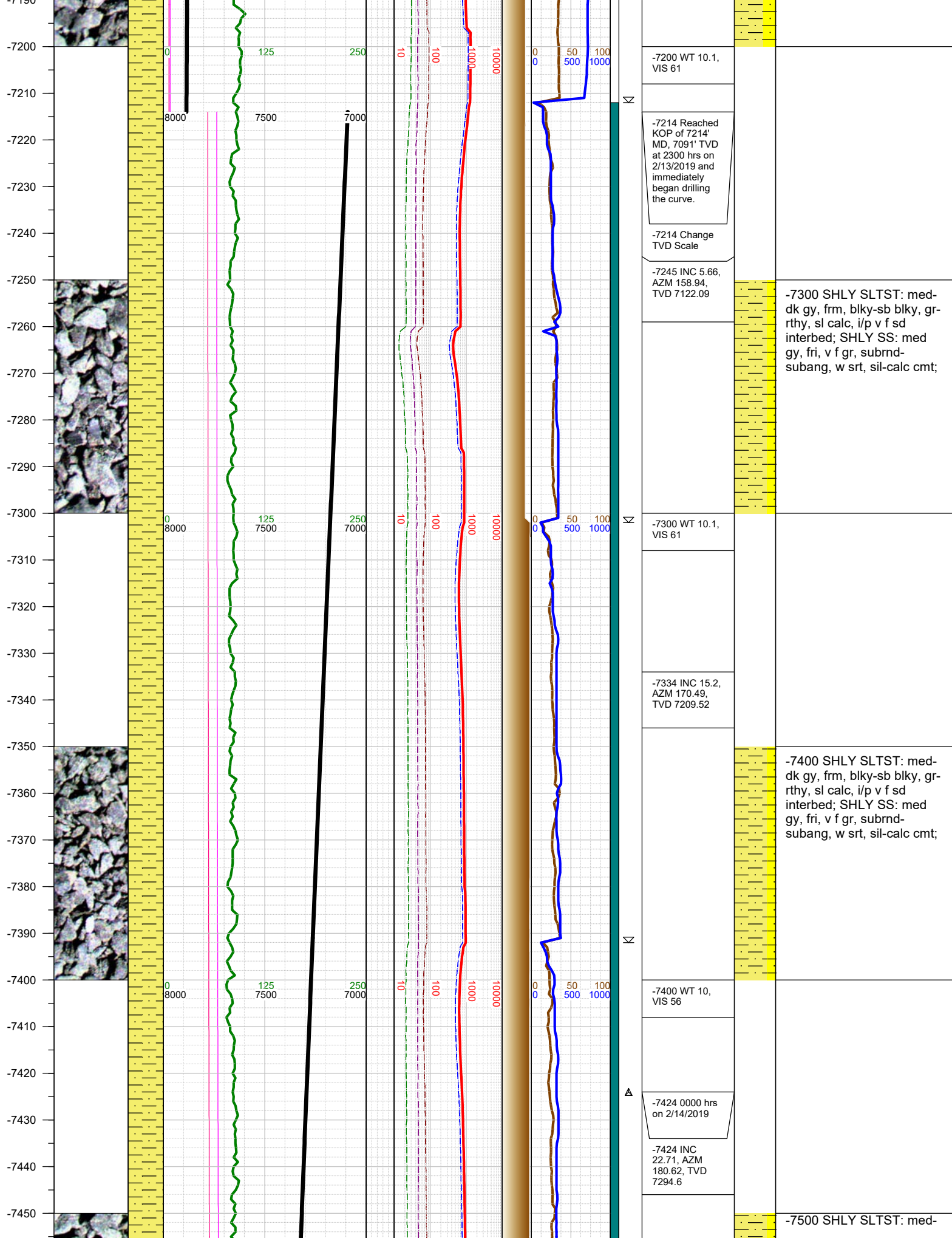


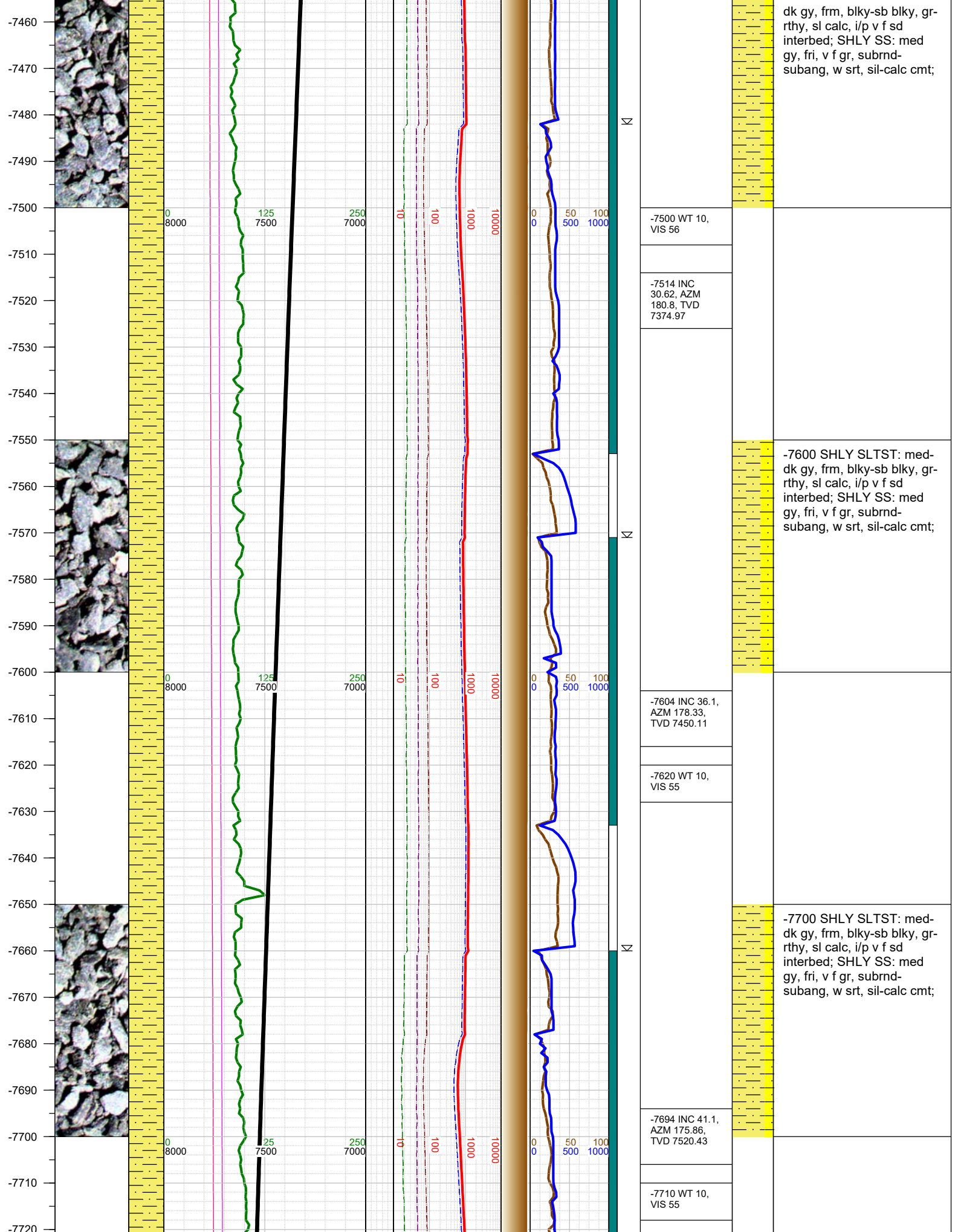
-6500 SHLY SLTST: med-  
dk gy, frm, blk-sb blk, gr-  
rthy, sl calc; SHLY SS: lt-  
med gy, fri, f gr, sbrnd-  
sbang, w srt, sl calc cmt;  
SS: wh, mlky, lt gy, lt brn,  
s&p, sbrnd-sbang, f gr, w  
srt, w cmt, calc cmt;



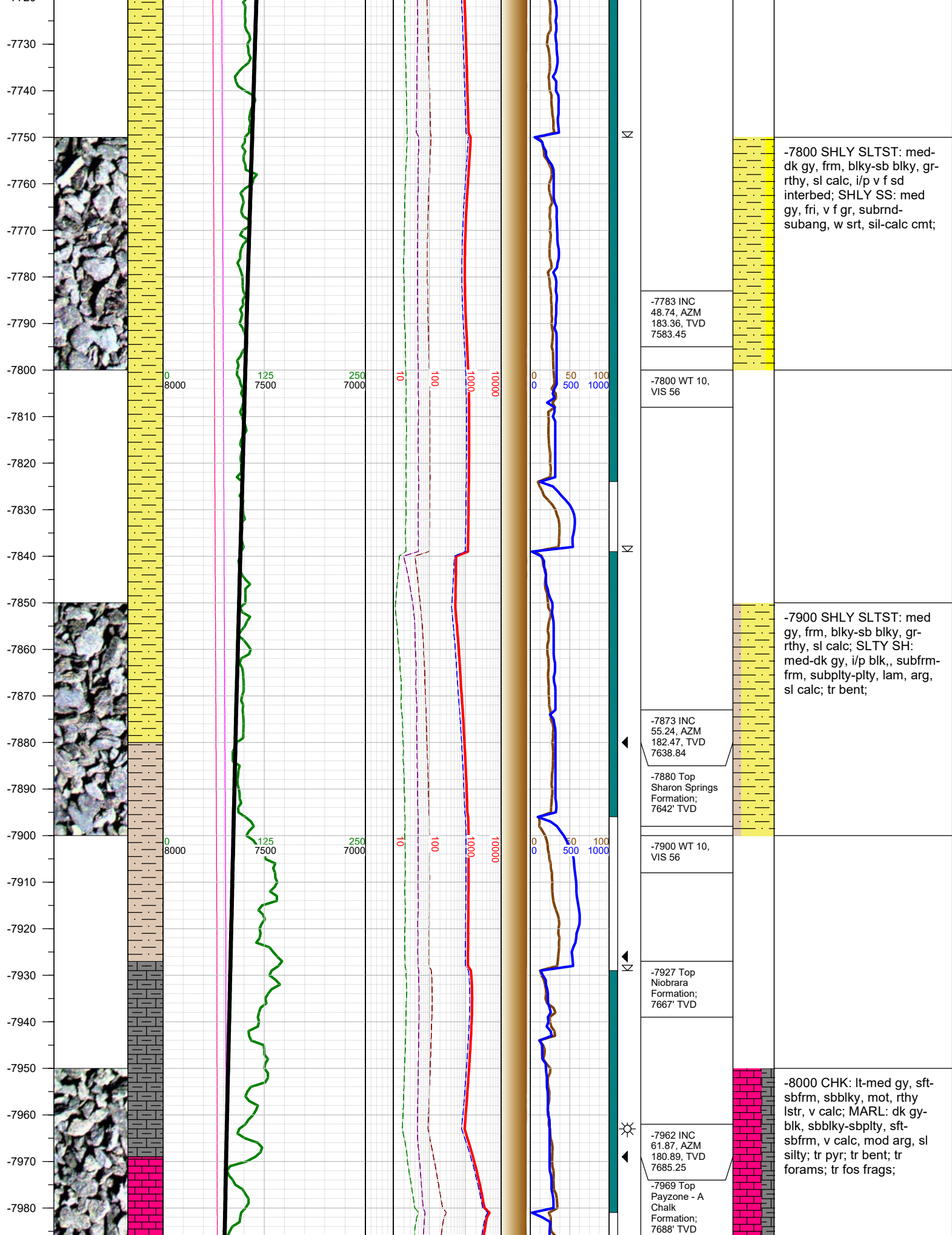




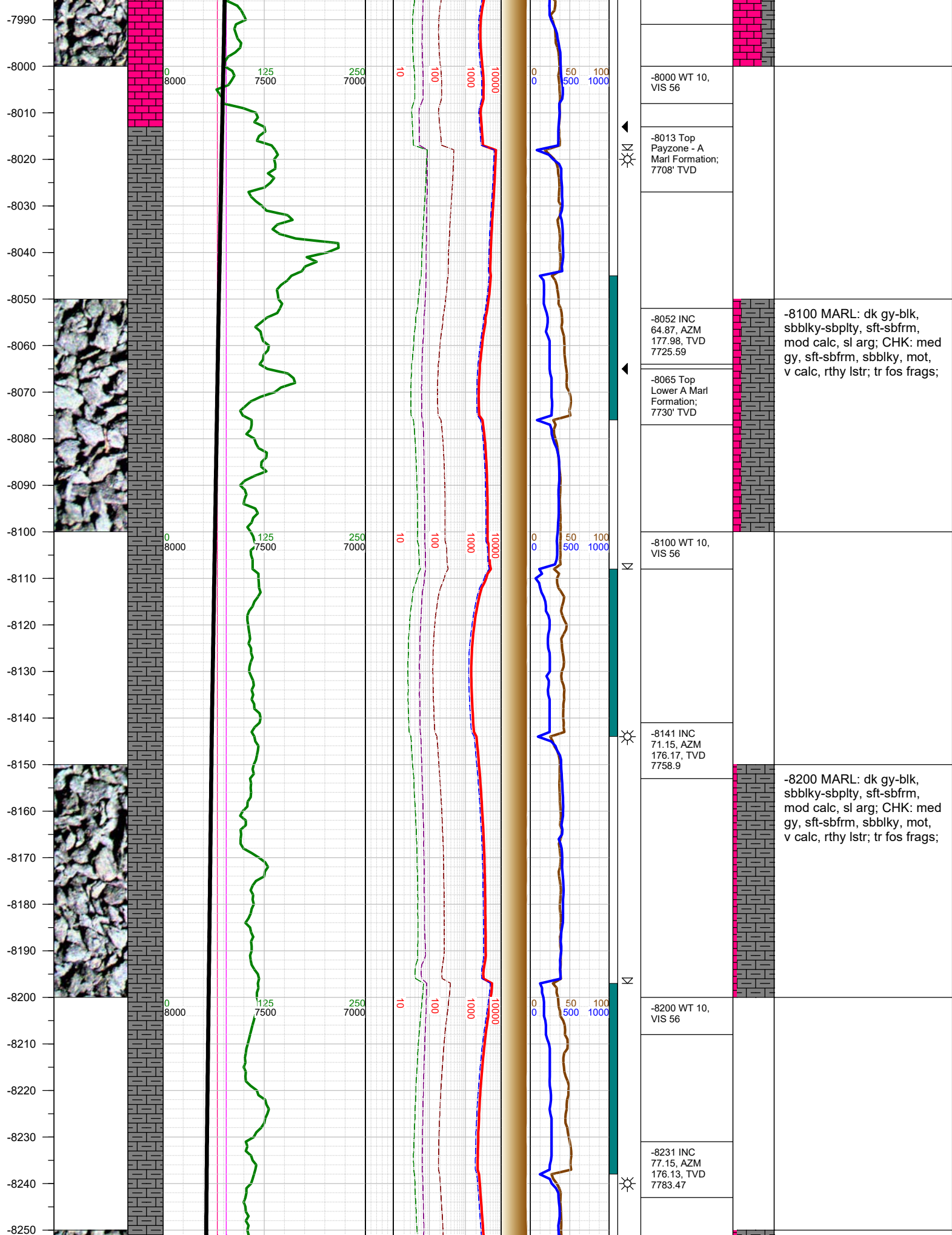


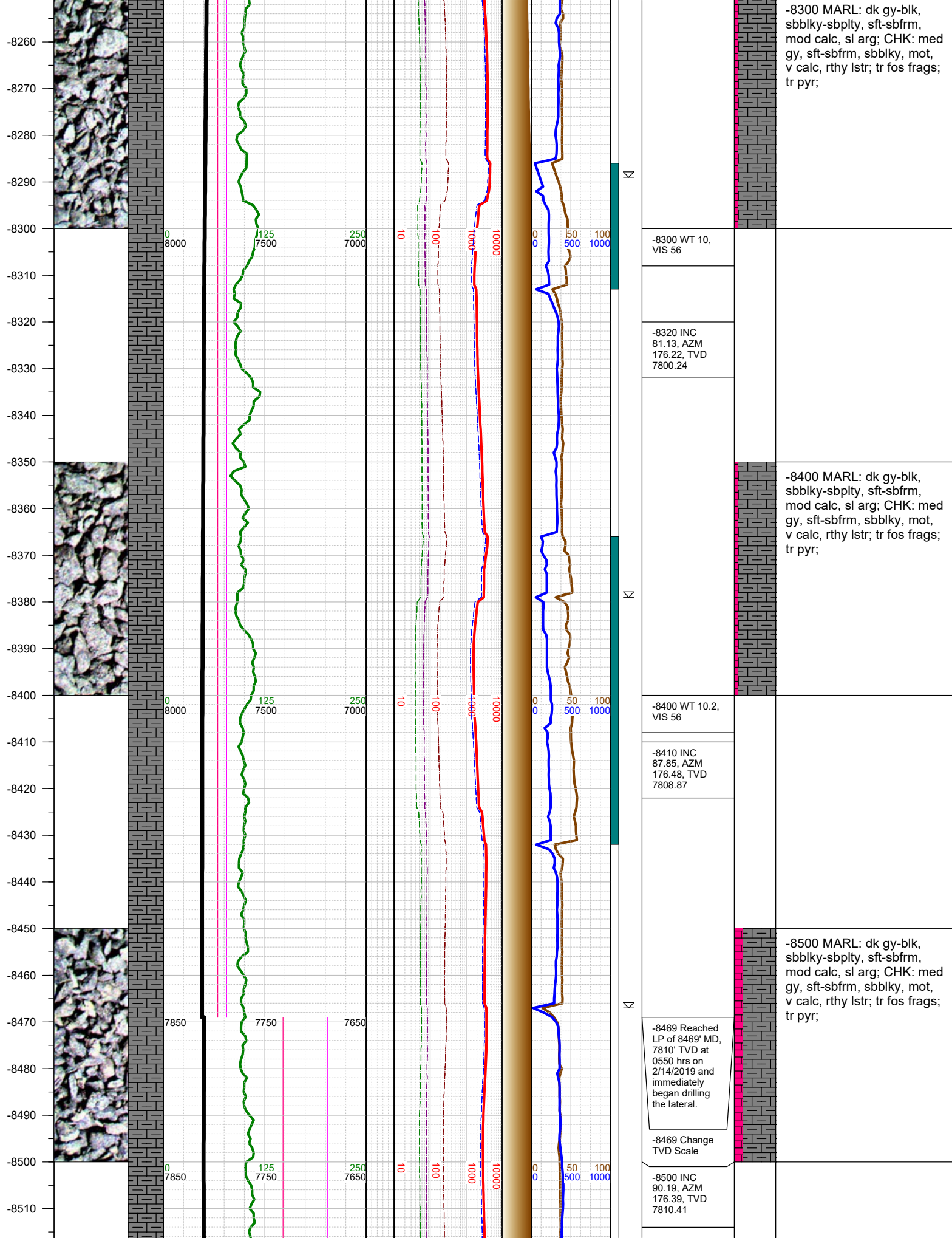












-8300 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr fos frags; tr pyr;

-8300 WT 10, VIS 56

-8320 INC 81.13, AZM 176.22, TVD 7800.24

-8400 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr fos frags; tr pyr;

-8400 WT 10.2, VIS 56

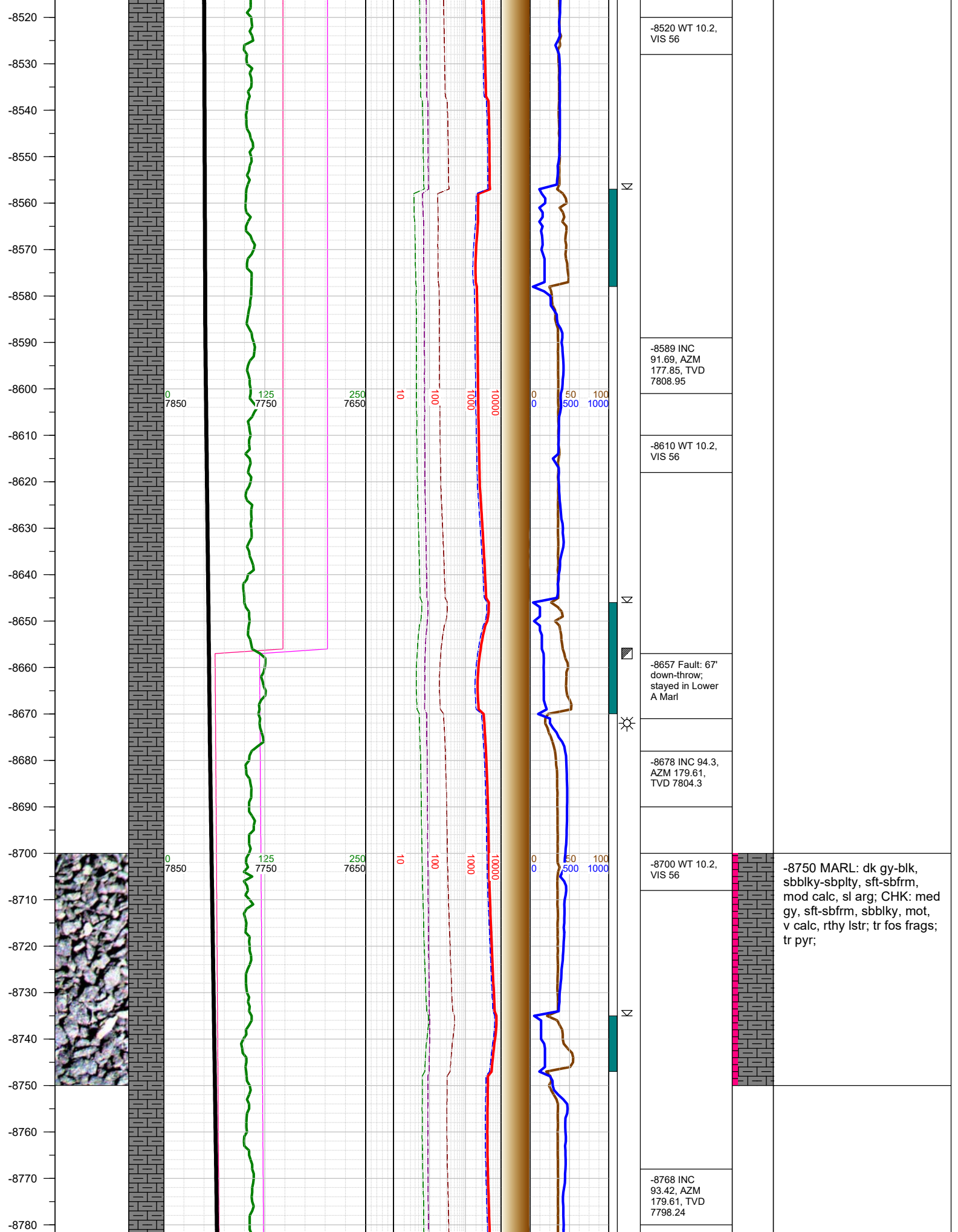
-8410 INC 87.85, AZM 176.48, TVD 7808.87

-8500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr fos frags; tr pyr;

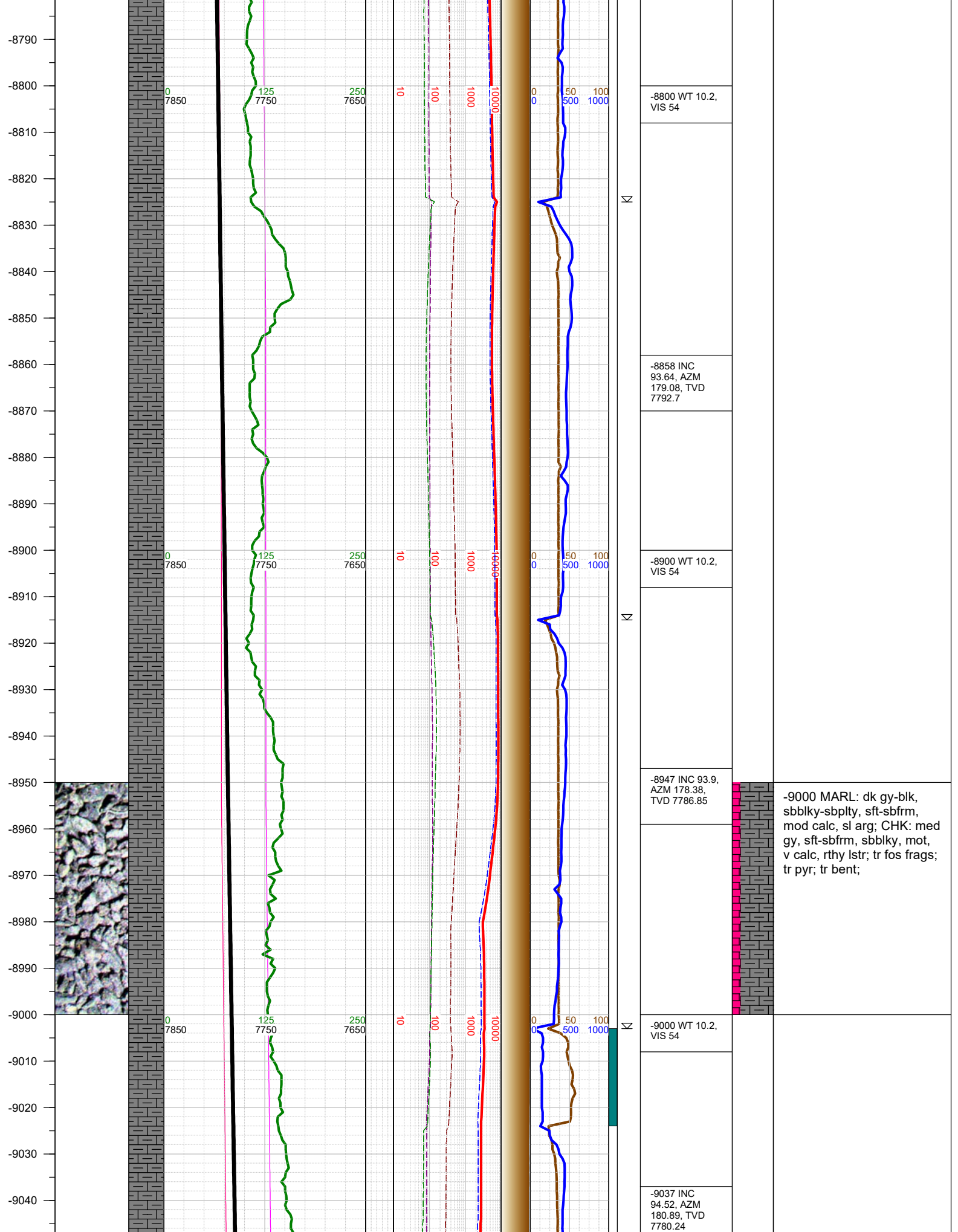
-8469 Reached LP of 8469' MD, 7810' TVD at 0550 hrs on 2/14/2019 and immediately began drilling the lateral.

-8469 Change TVD Scale

-8500 INC 90.19, AZM 176.39, TVD 7810.41

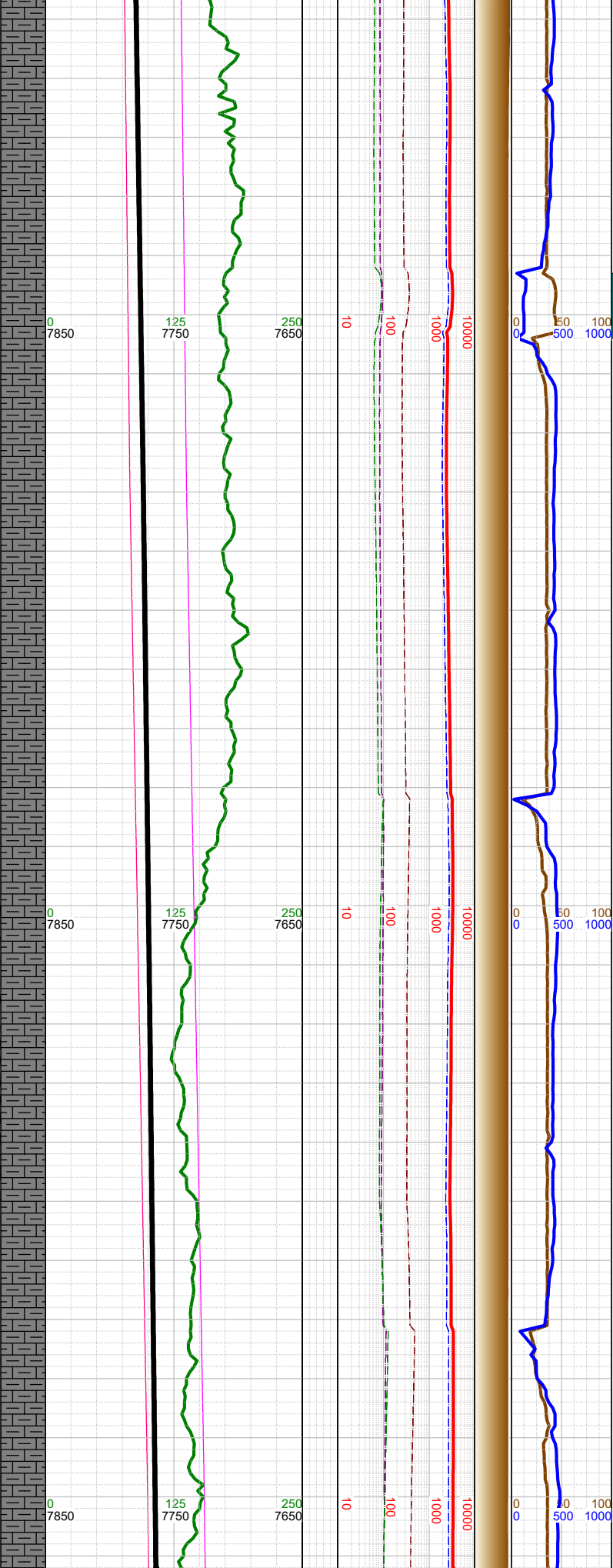








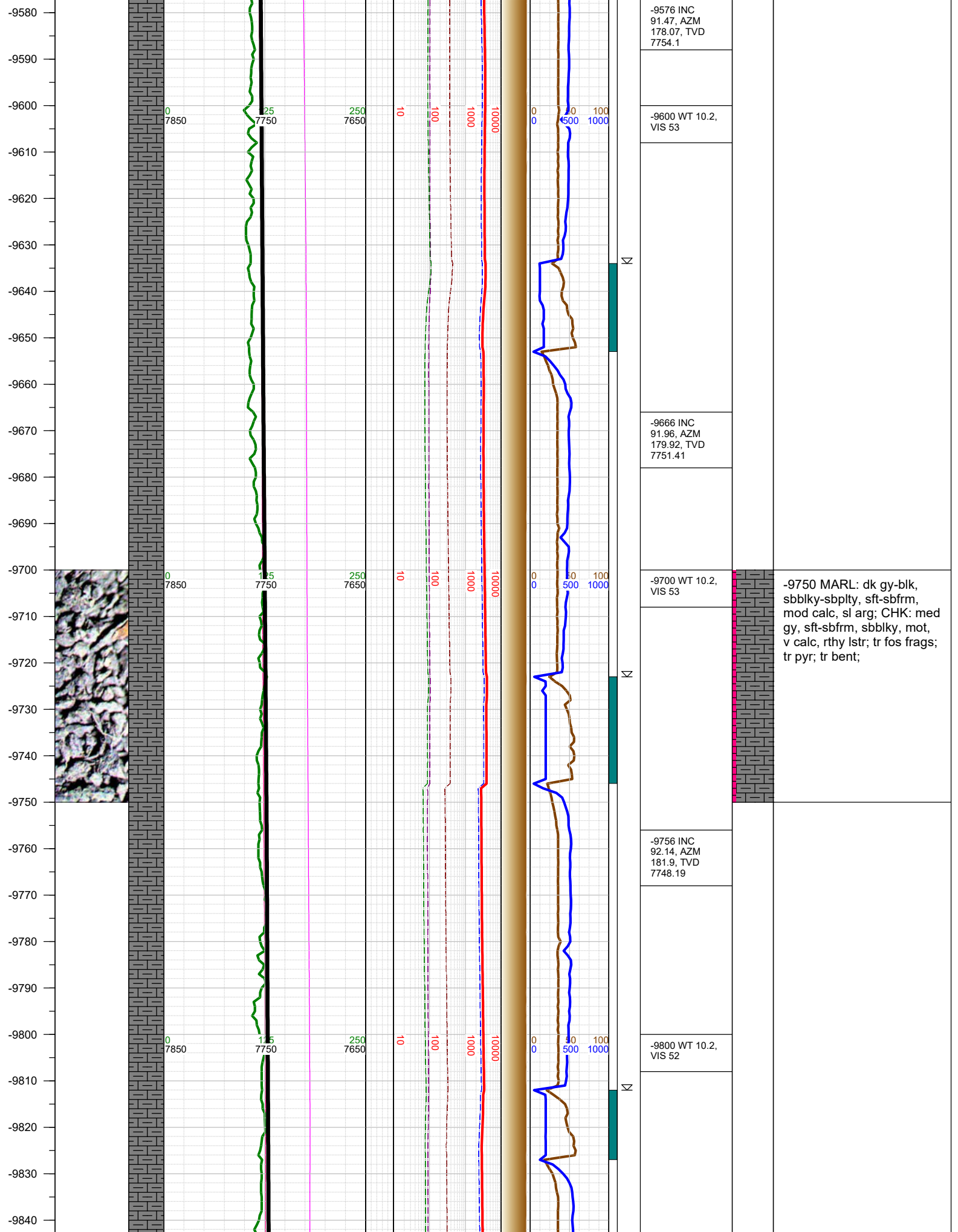
-9050  
-9060  
-9070  
-9080  
-9090  
-9100  
-9110  
-9120  
-9130  
-9140  
-9150  
-9160  
-9170  
-9180  
-9190  
-9200  
-9210  
-9220  
-9230  
-9240  
-9250  
-9260  
-9270  
-9280  
-9290  
-9300  
-9310



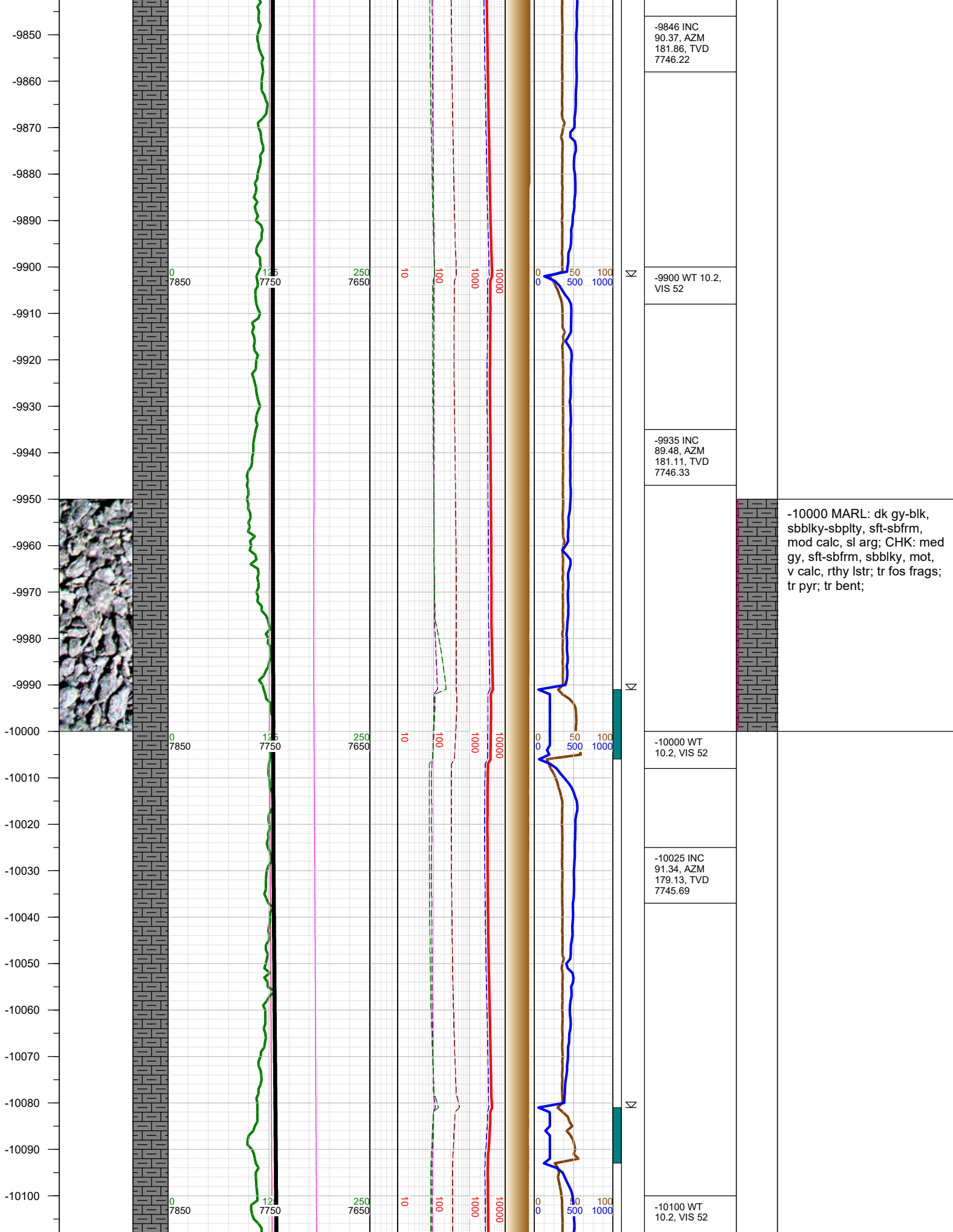
-9050 Gas buster on
-9100 WT 10.2, VIS 54
-9127 INC 93.42, AZM 181.59, TVD 7774.01
-9200 WT 10.2, VIS 54
-9217 INC 93.06, AZM 180.36, TVD 7768.93
-9307 INC 92.84, AZM

-9250 MARL: dk gy-blk,  
sbbiky-sbplty, sft-sbfrm,  
mod calc, sl arg; CHK: med  
gy, sft-sbfrm, sbbiky, mot,  
v calc, rthy lstr; tr fos frags;  
tr pyr; tr bent;









-9846 INC  
90.37, AZM  
181.86, TVD  
7746.22

-9900 WT 10.2,  
VIS 52

-9935 INC  
89.48, AZM  
181.11, TVD  
7746.33

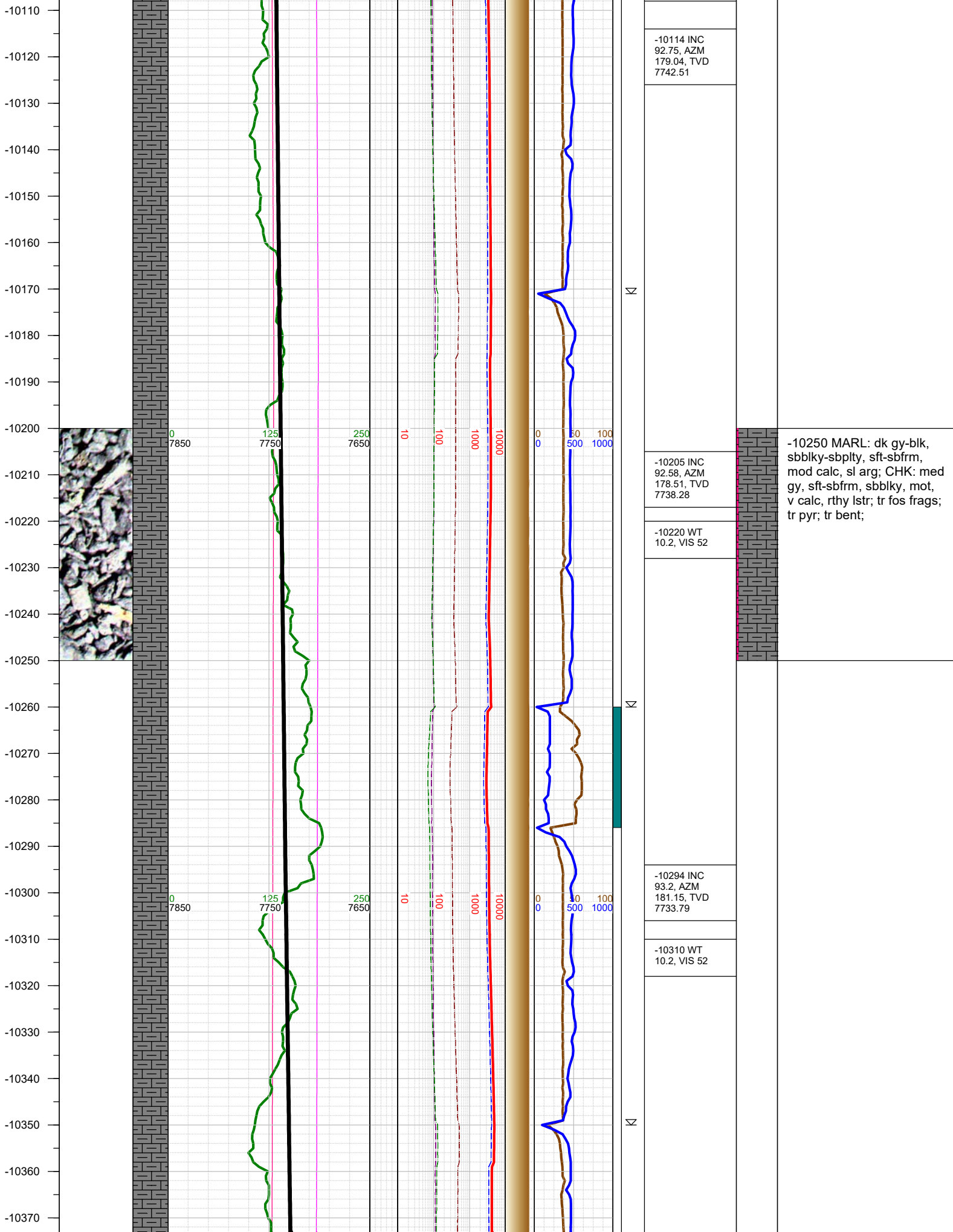
-10000 MARL: dk gy-blk,  
sbblky-sbplty, sft-sbfrm,  
mod calc, sl arg; CHK: med  
gy, sft-sbfrm, sbblky, mot,  
v calc, rthy lstr; tr fos frags;  
tr pyr; tr bent;

-10000 WT  
10.2, VIS 52

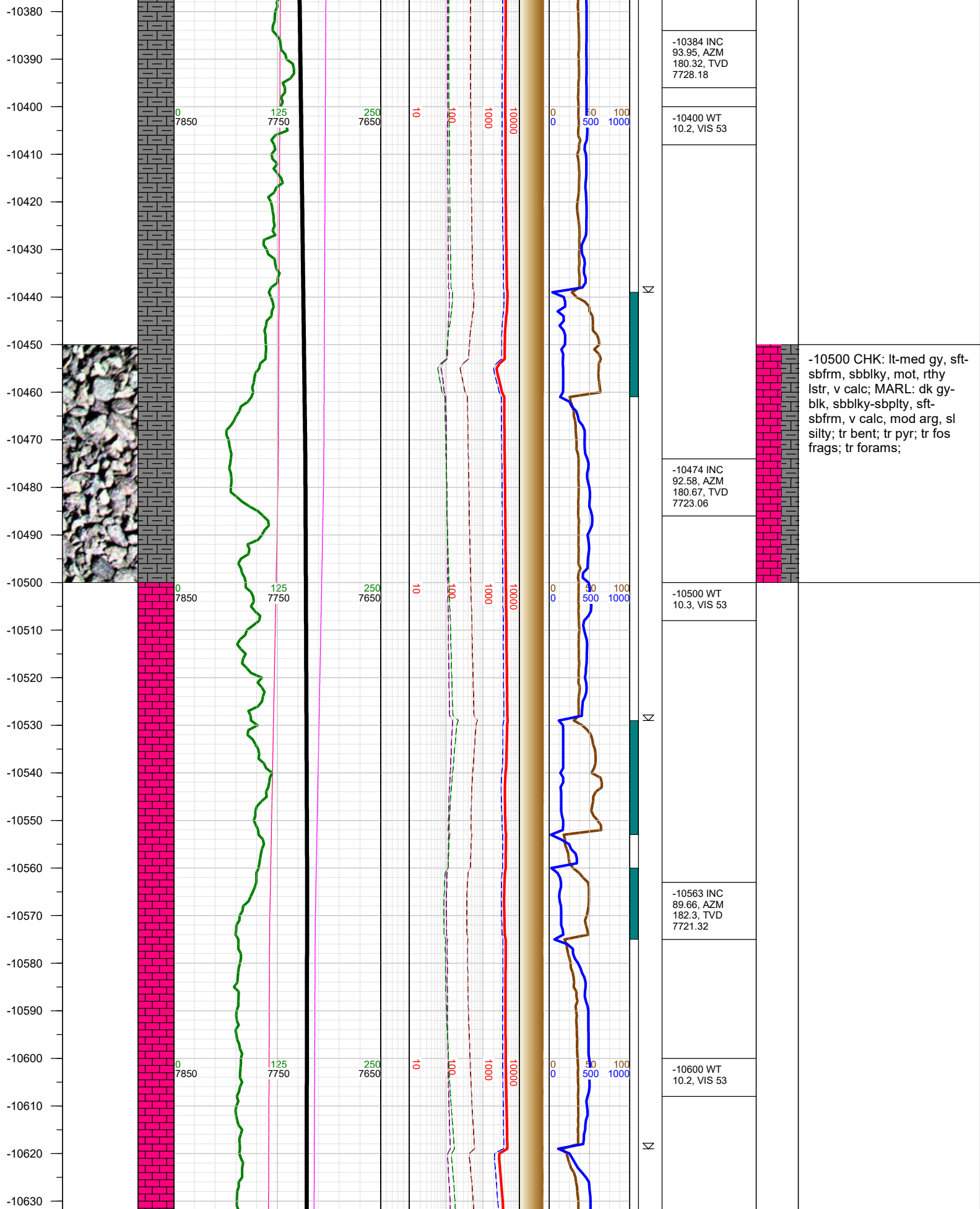
-10025 INC  
91.34, AZM  
179.13, TVD  
7745.69

-10100 WT  
10.2, VIS 52

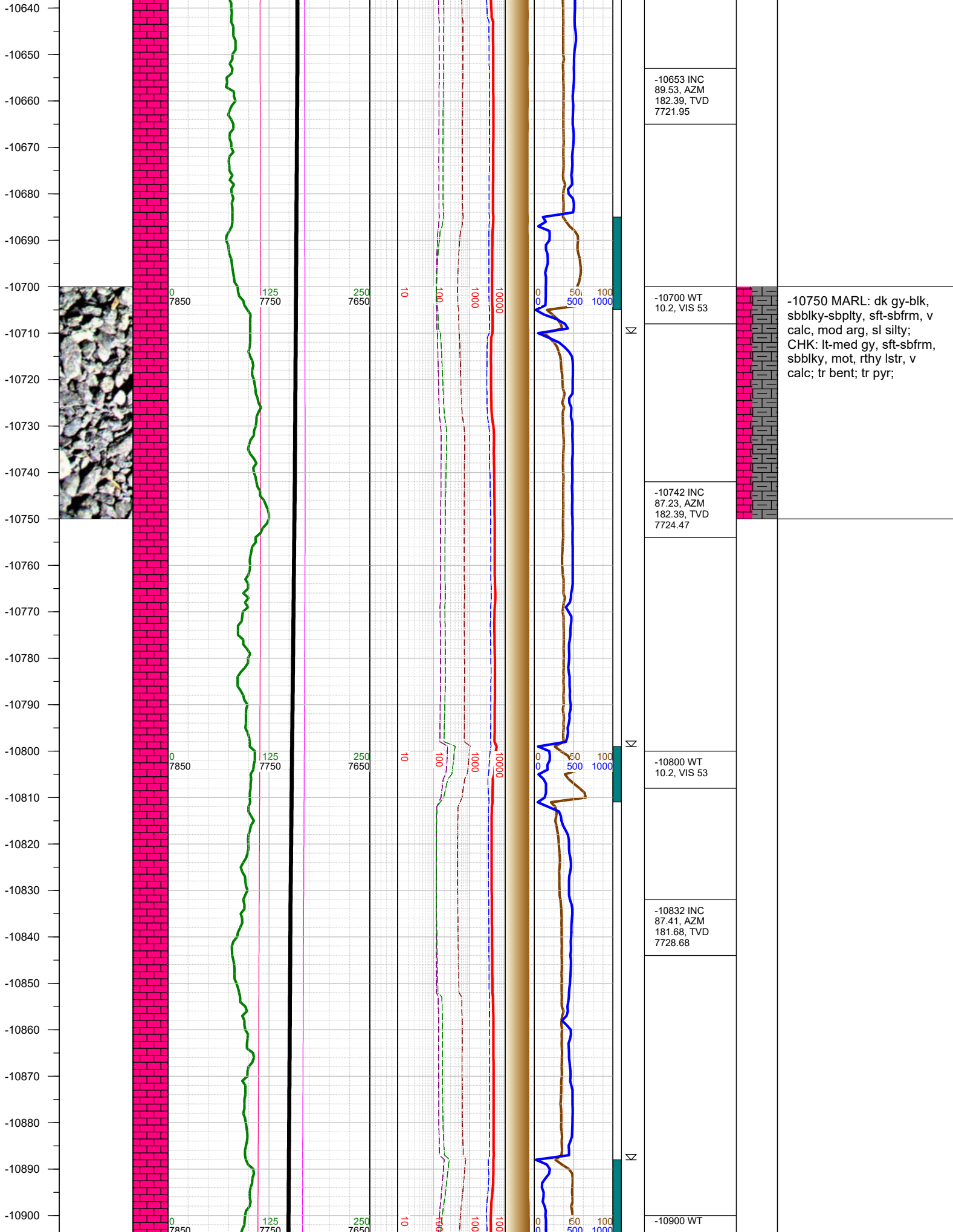




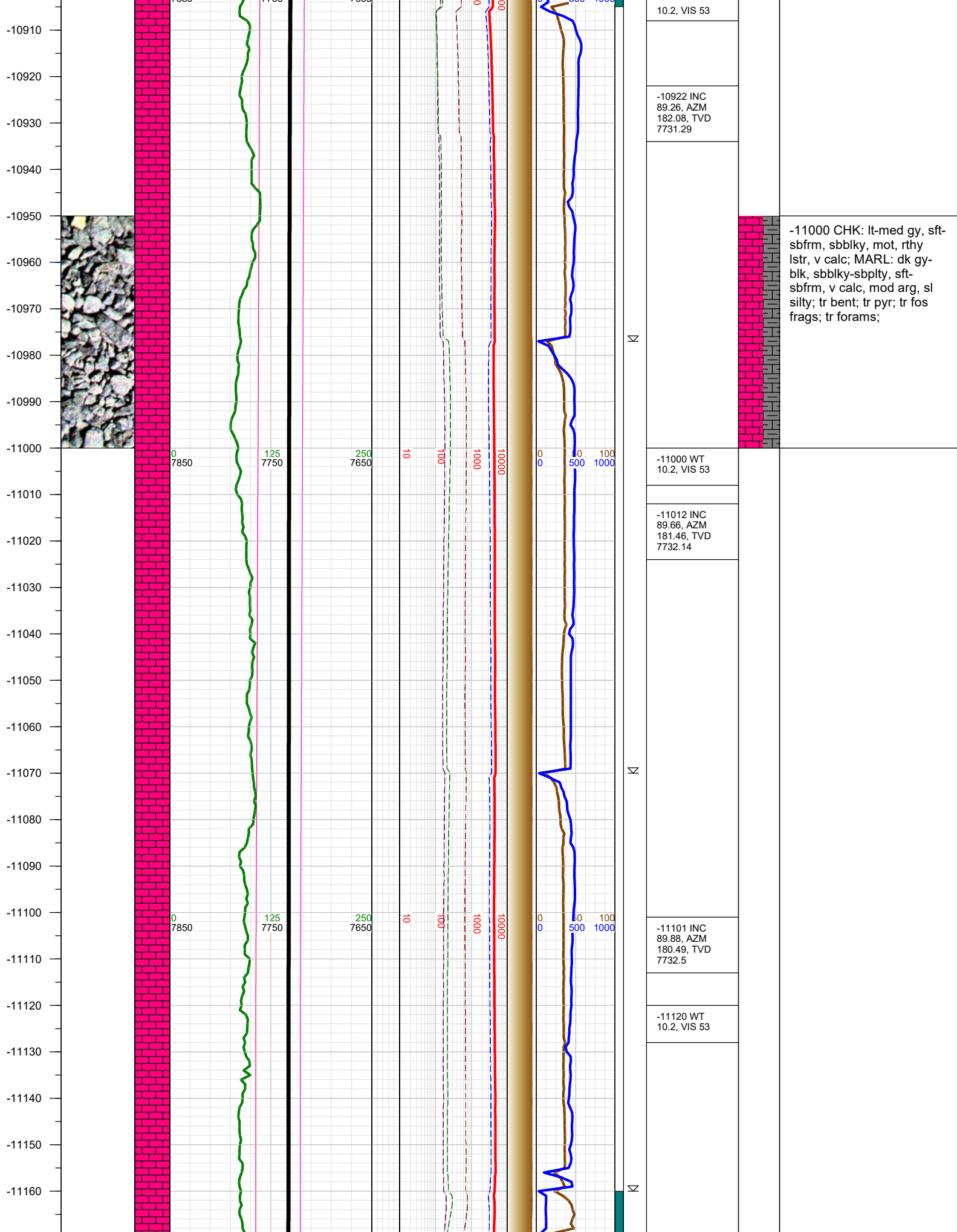
-10250 MARL: dk gy-blk, sbblky-sbply, sft-sbfrm, mod calc, sl arg; CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr fos frags; tr pyr; tr bent;



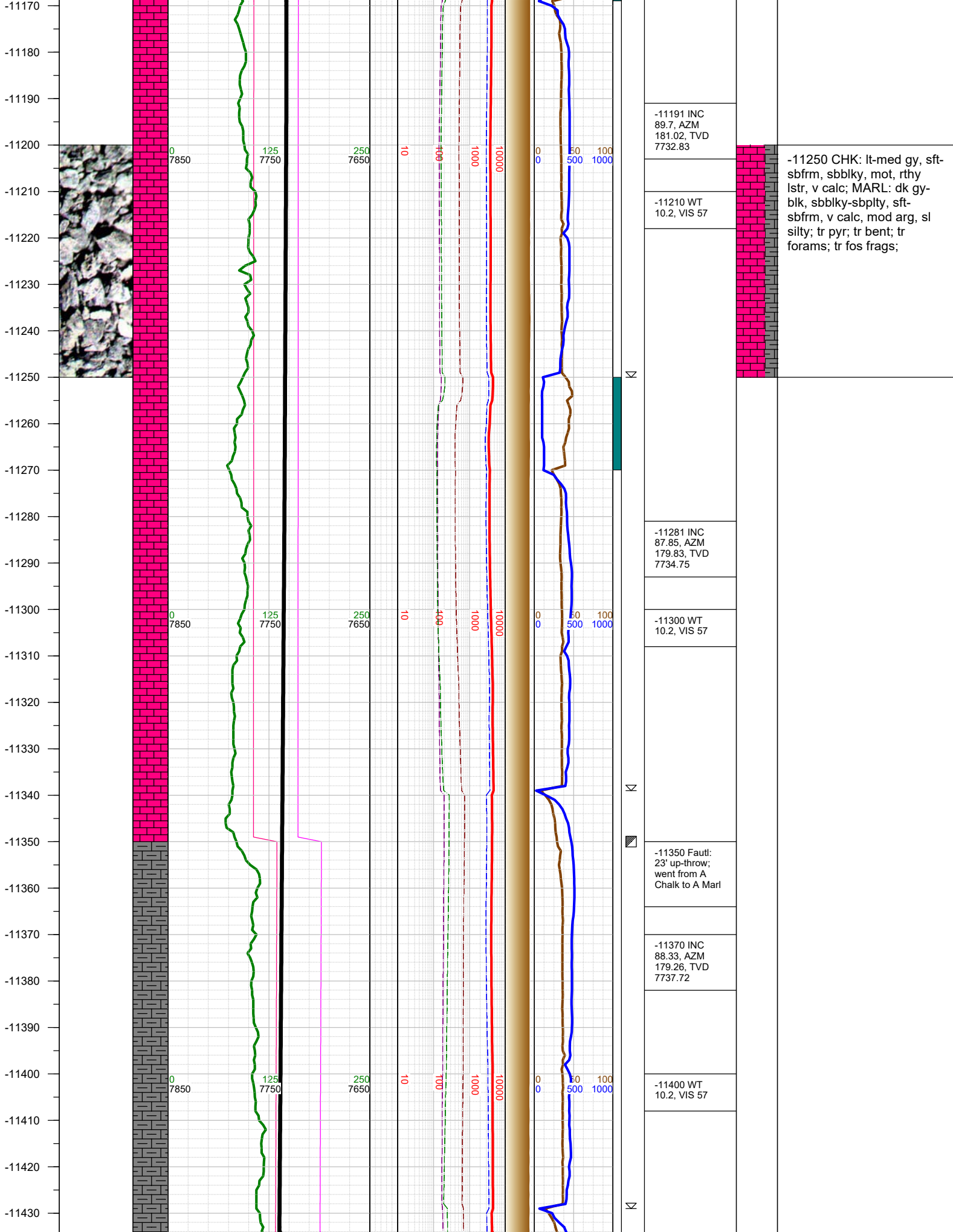
-10500 CHK: lt-med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr bent; tr pyr; tr fos frags; tr forams;



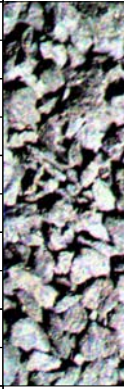








-11440  
-11450  
-11460  
-11470  
-11480  
-11490  
-11500  
-11510  
-11520  
-11530  
-11540  
-11550  
-11560  
-11570  
-11580  
-11590  
-11600  
-11610  
-11620  
-11630  
-11640  
-11650  
-11660  
-11670  
-11680  
-11690



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7850

125  
7750

250  
7650

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100

1000

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0

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500

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-11460 INC  
88.07, AZM  
178.64, TVD  
7740.54

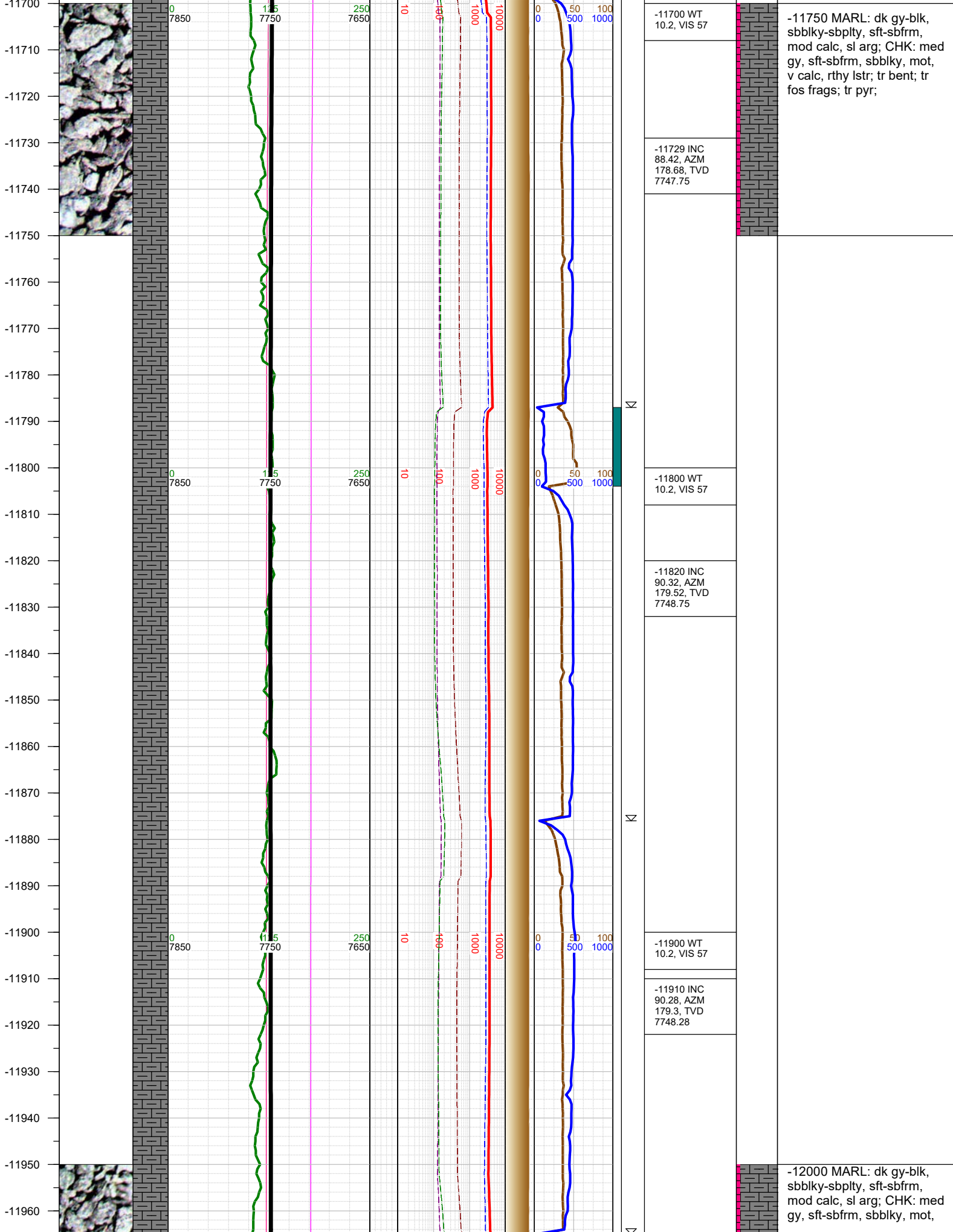
-11500 WT  
10.2, VIS 57

-11550 INC  
88.64, AZM  
180.09, TVD  
7743.13

-11600 WT  
10.2, VIS 57

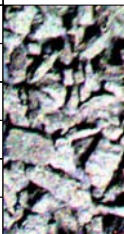
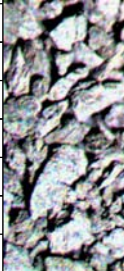
-11639 INC  
88.51, AZM  
179.3, TVD  
7745.34

-11500 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: med  
gy, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; tr bent; tr  
fos frags; tr pyr;





-11970  
-11980  
-11990  
-12000  
-12010  
-12020  
-12030  
-12040  
-12050  
-12060  
-12070  
-12080  
-12090  
-12100  
-12110  
-12120  
-12130  
-12140  
-12150  
-12160  
-12170  
-12180  
-12190  
-12200  
-12210  
-12220  
-12230



0  
7850

1.5  
7750

250  
7650

10

100

1000

10000

0

50

100

-11999 INC  
89.84, AZM  
178.9, TVD  
7748.19

-12020 WT  
10.2, VIS 57

-12089 INC  
89.62, AZM  
178.6, TVD  
7748.61

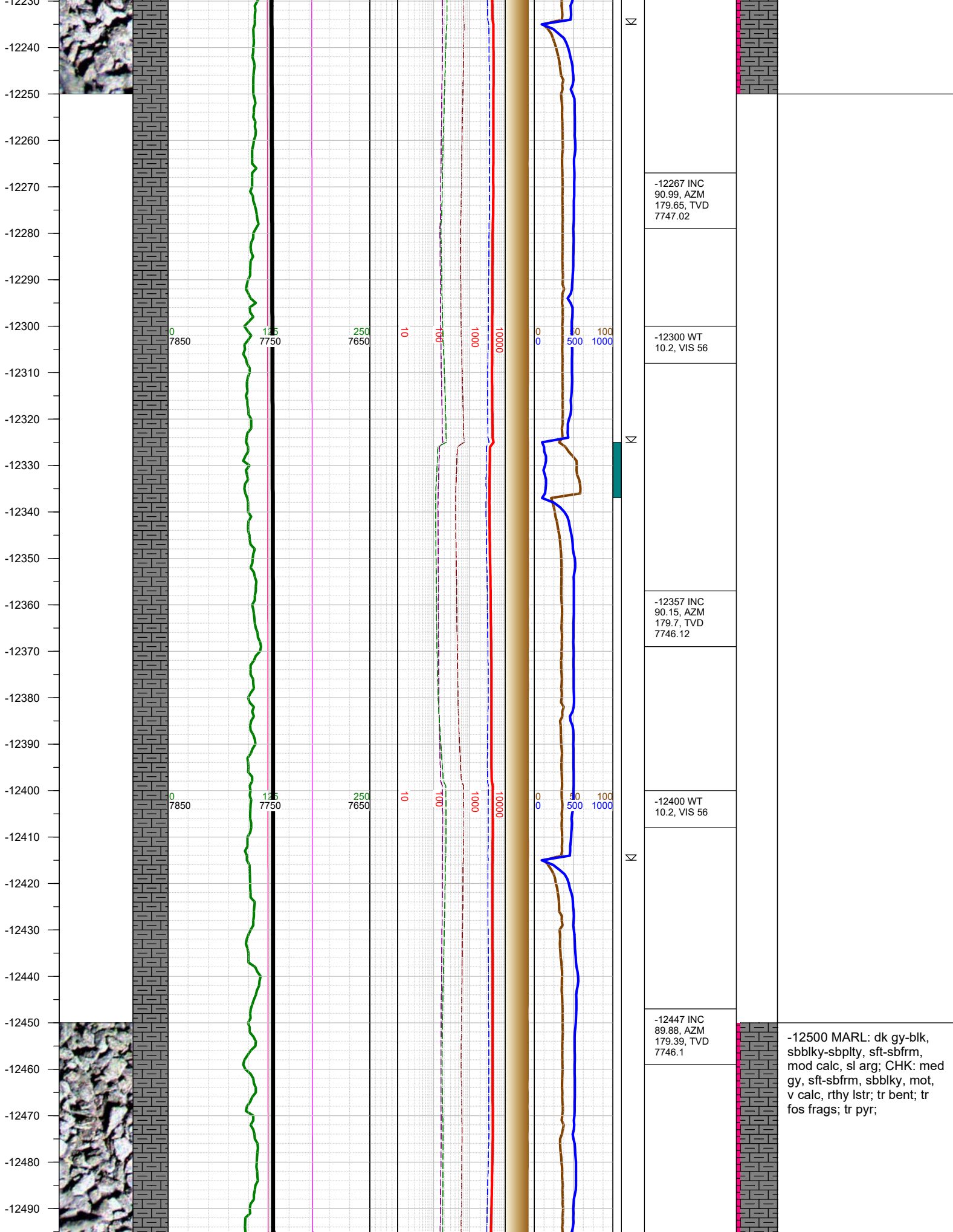
-12110 WT  
10.2, VIS 57

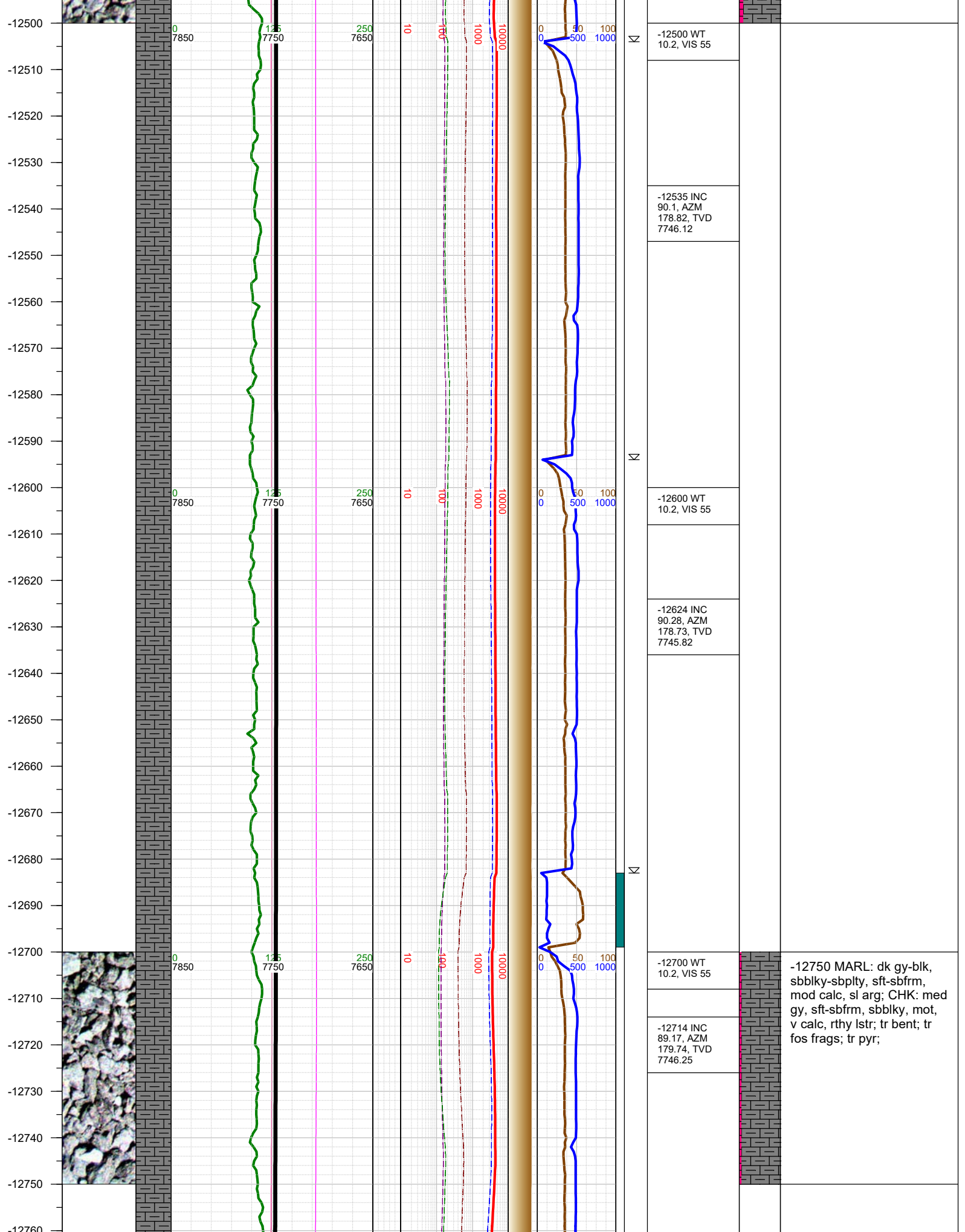
-12178 INC  
90.72, AZM  
180.18, TVD  
7748.35

-12200 WT  
10.2, VIS 56

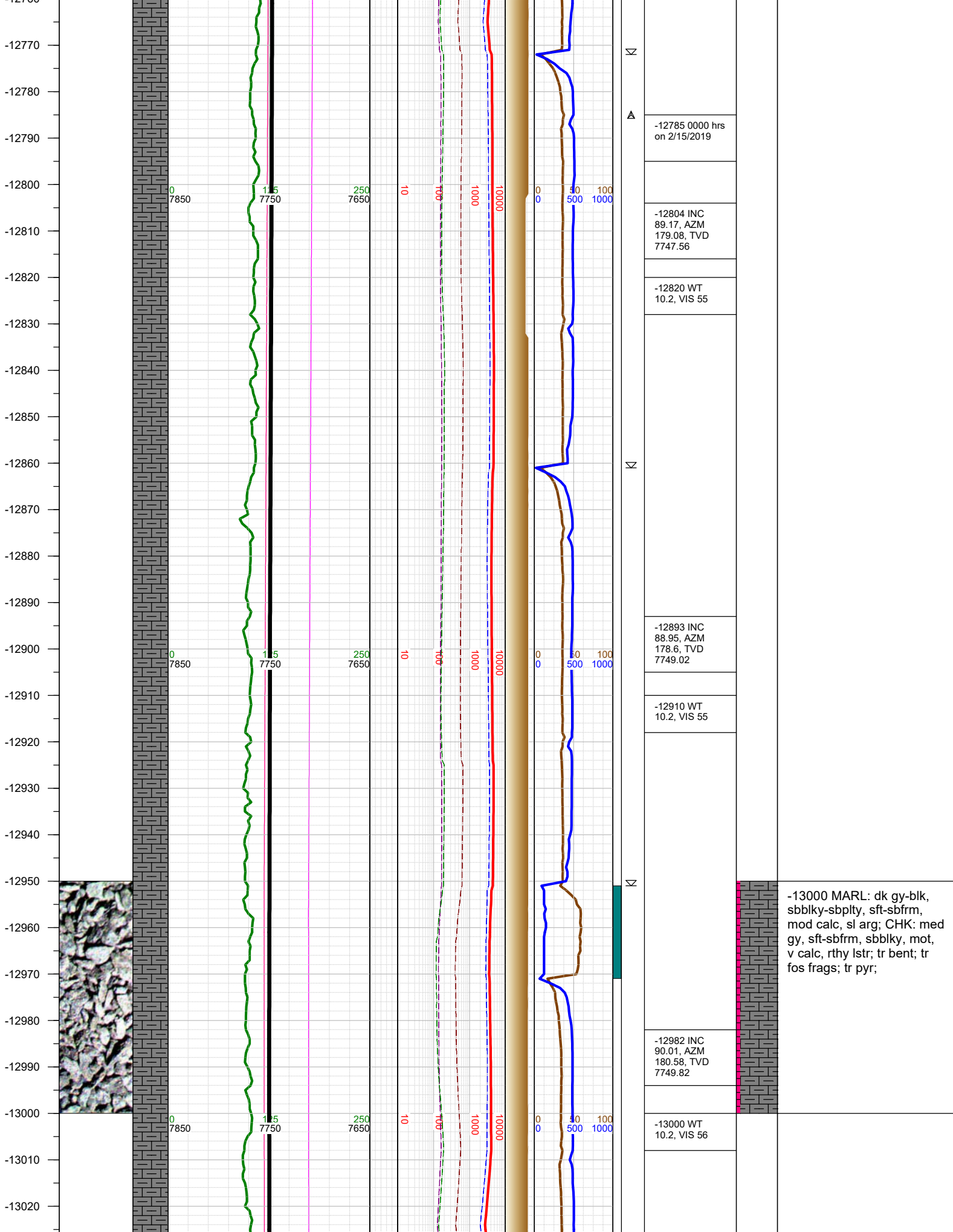
v calc, rthy lstr; tr bent; tr  
fos frags;

-12250 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: med  
gy, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; tr bent; tr  
fos frags;









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-12785 0000 hrs  
on 2/15/2019

-12804 INC  
89.17, AZM  
179.08, TVD  
7747.56

-12820 WT  
10.2, VIS 55

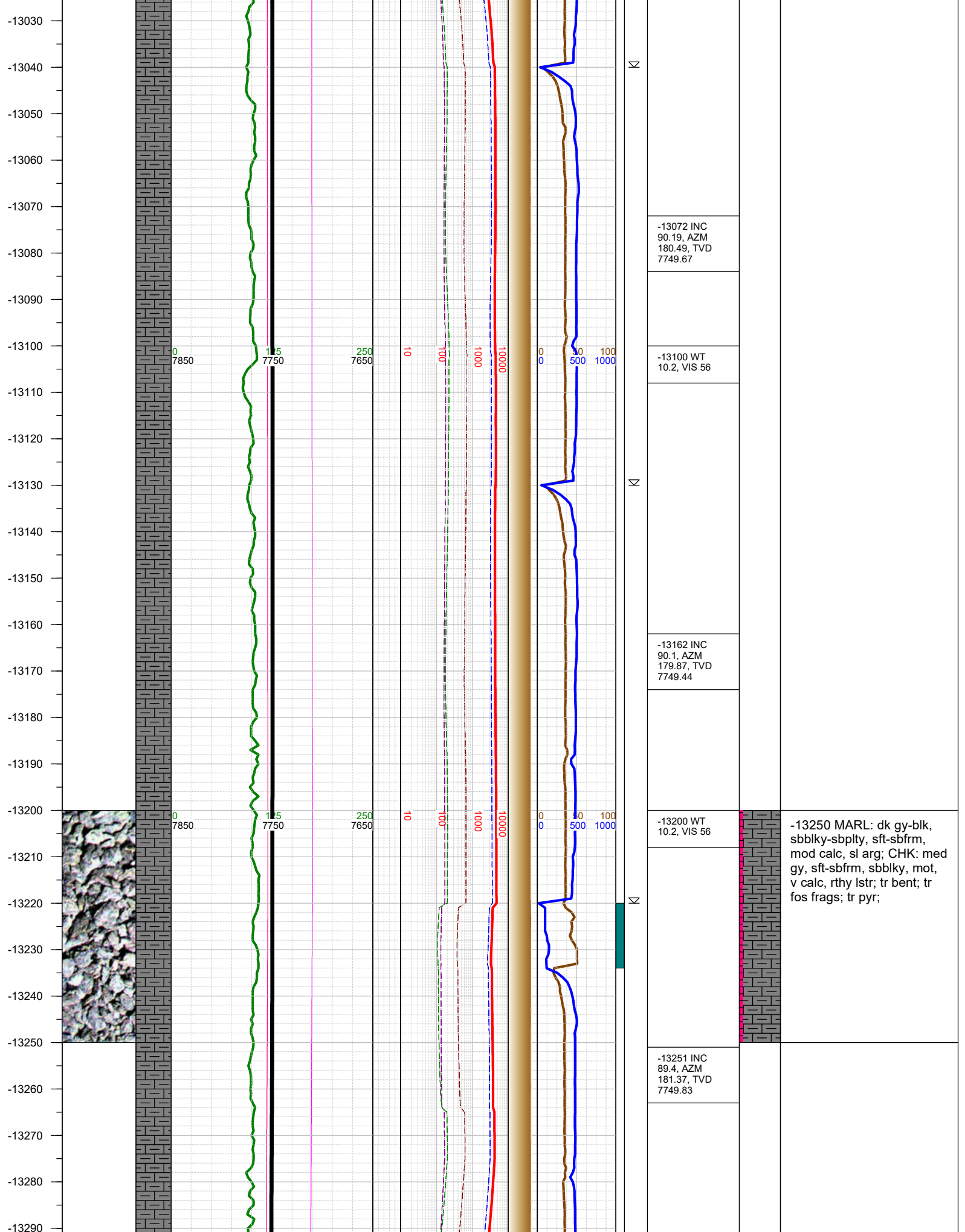
-12893 INC  
88.95, AZM  
178.6, TVD  
7749.02

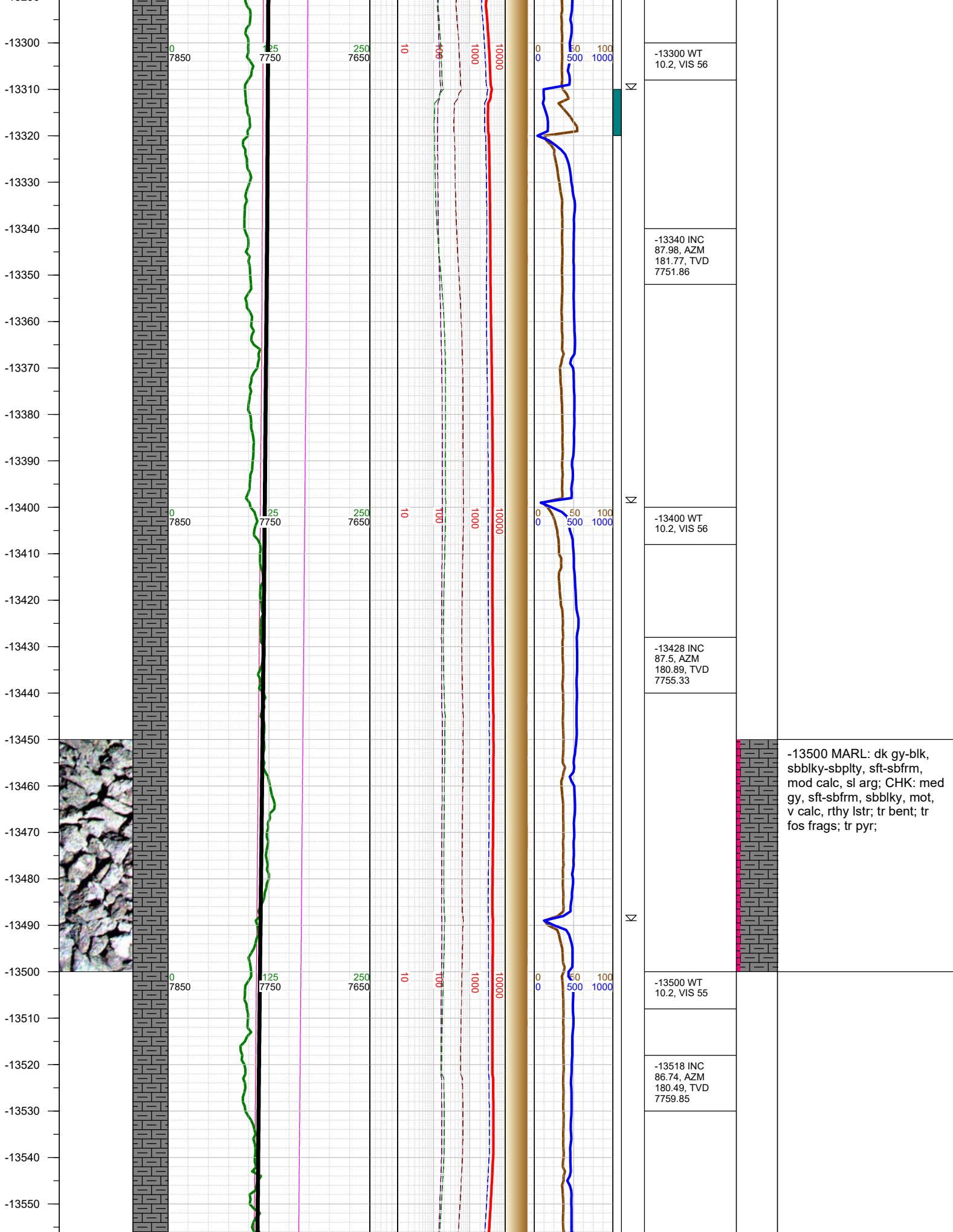
-12910 WT  
10.2, VIS 55

-13000 MARL: dk gy-blk,  
sbbly-sbply, sft-sbfrm,  
mod calc, sl arg; CHK: med  
gy, sft-sbfrm, sbbly, mot,  
v calc, rthy lstr; tr bent; tr  
fos frags; tr pyr;

-12982 INC  
90.01, AZM  
180.58, TVD  
7749.82

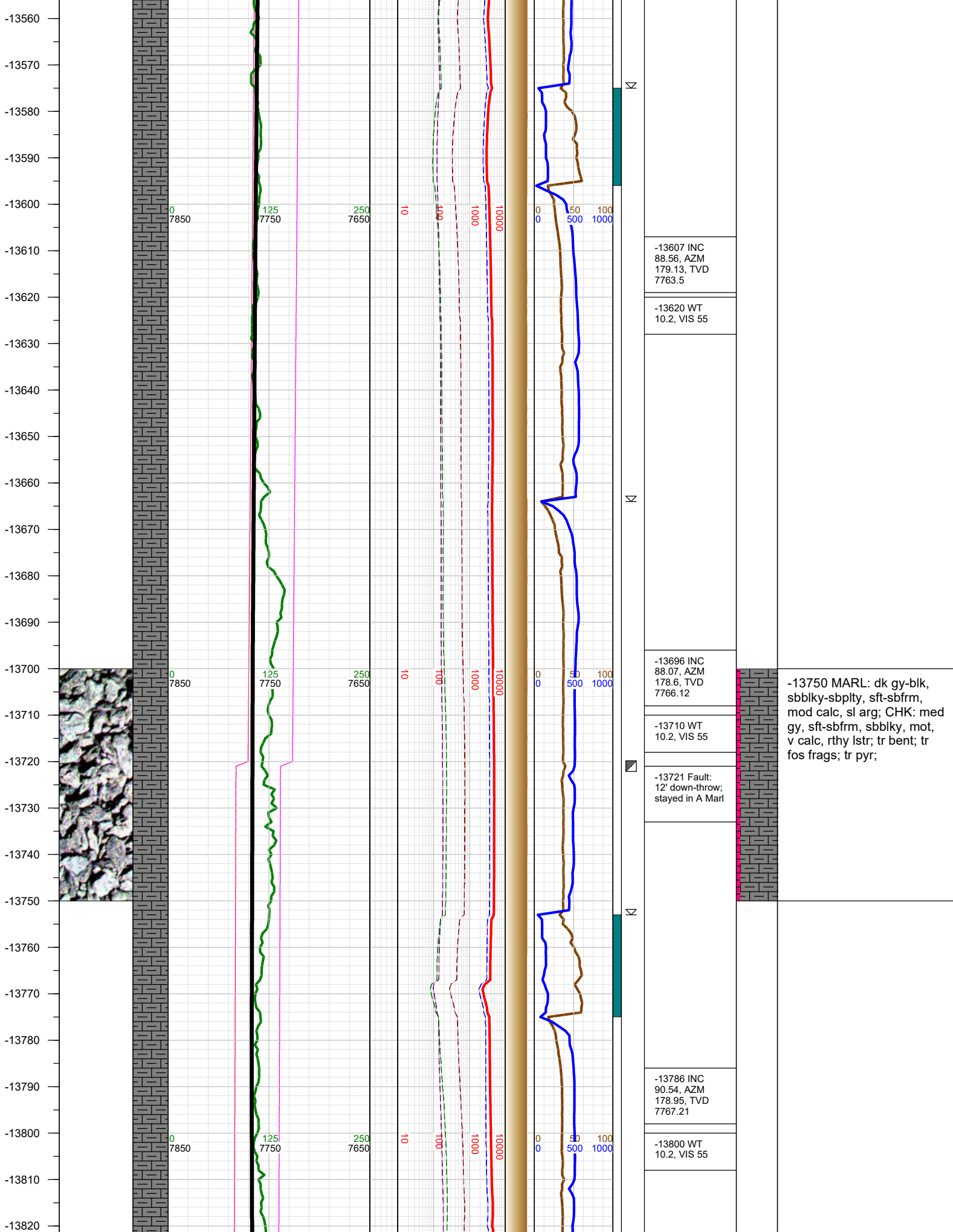
-13000 WT  
10.2, VIS 56

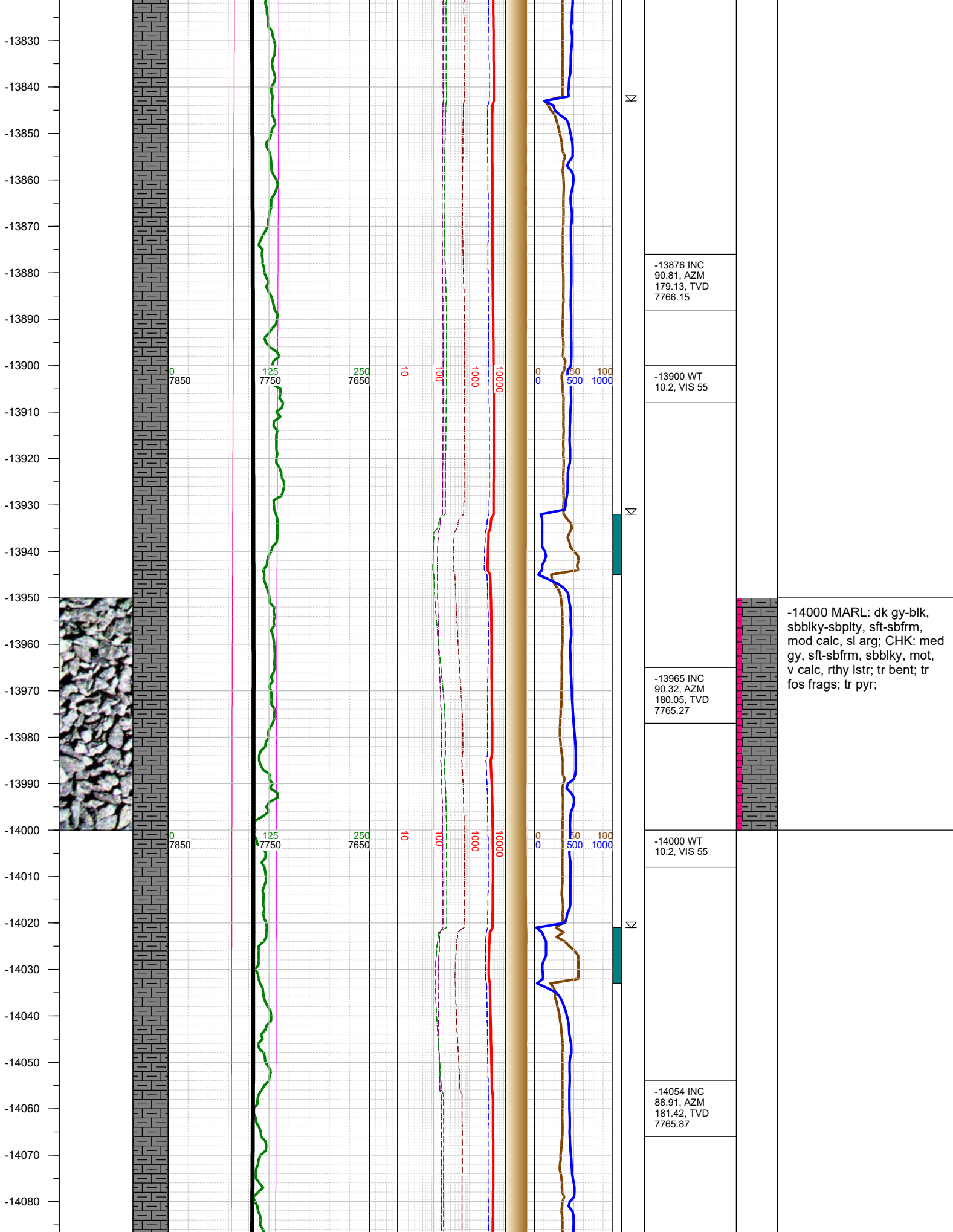


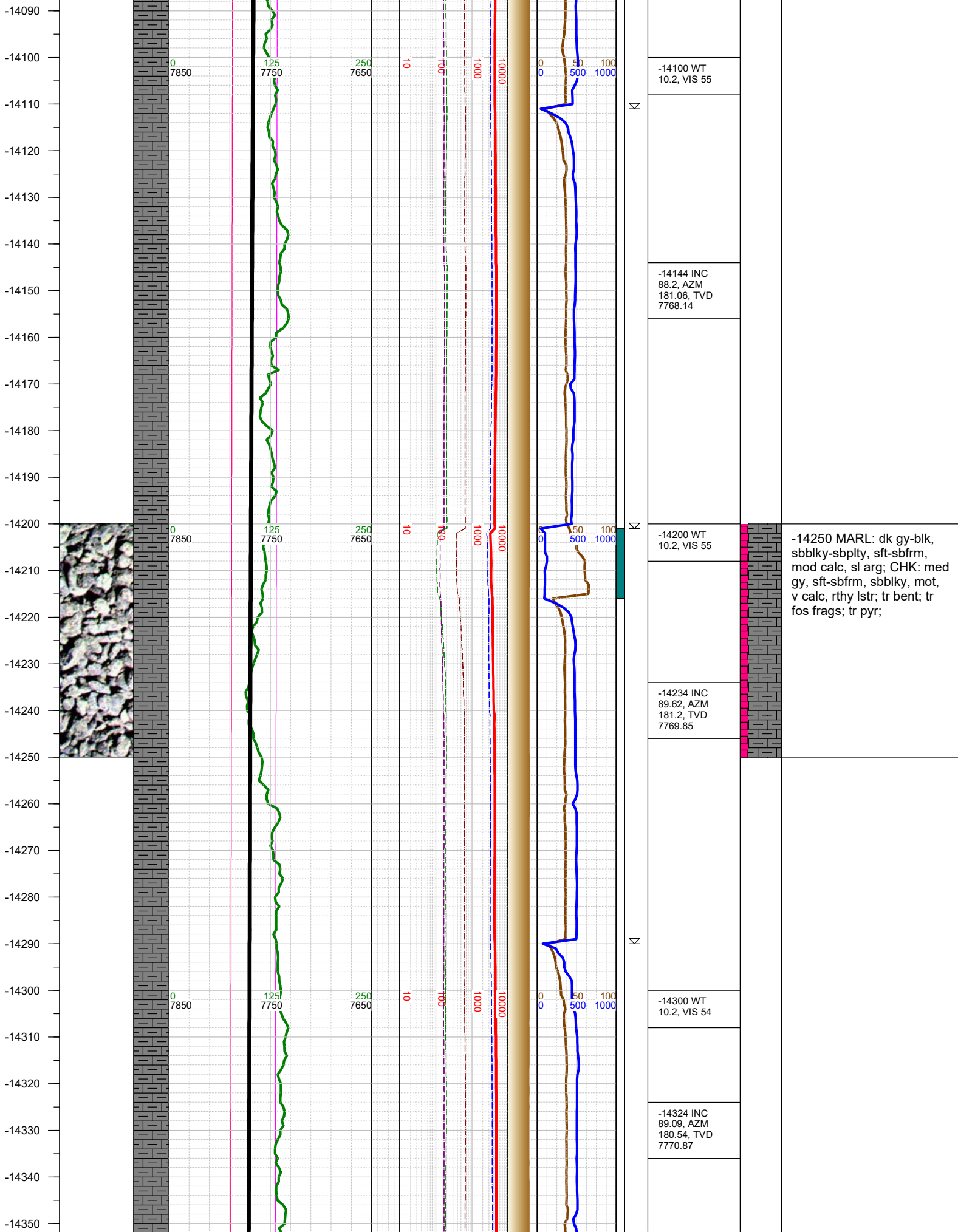


-13500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr bent; tr fos frags; tr pyr;



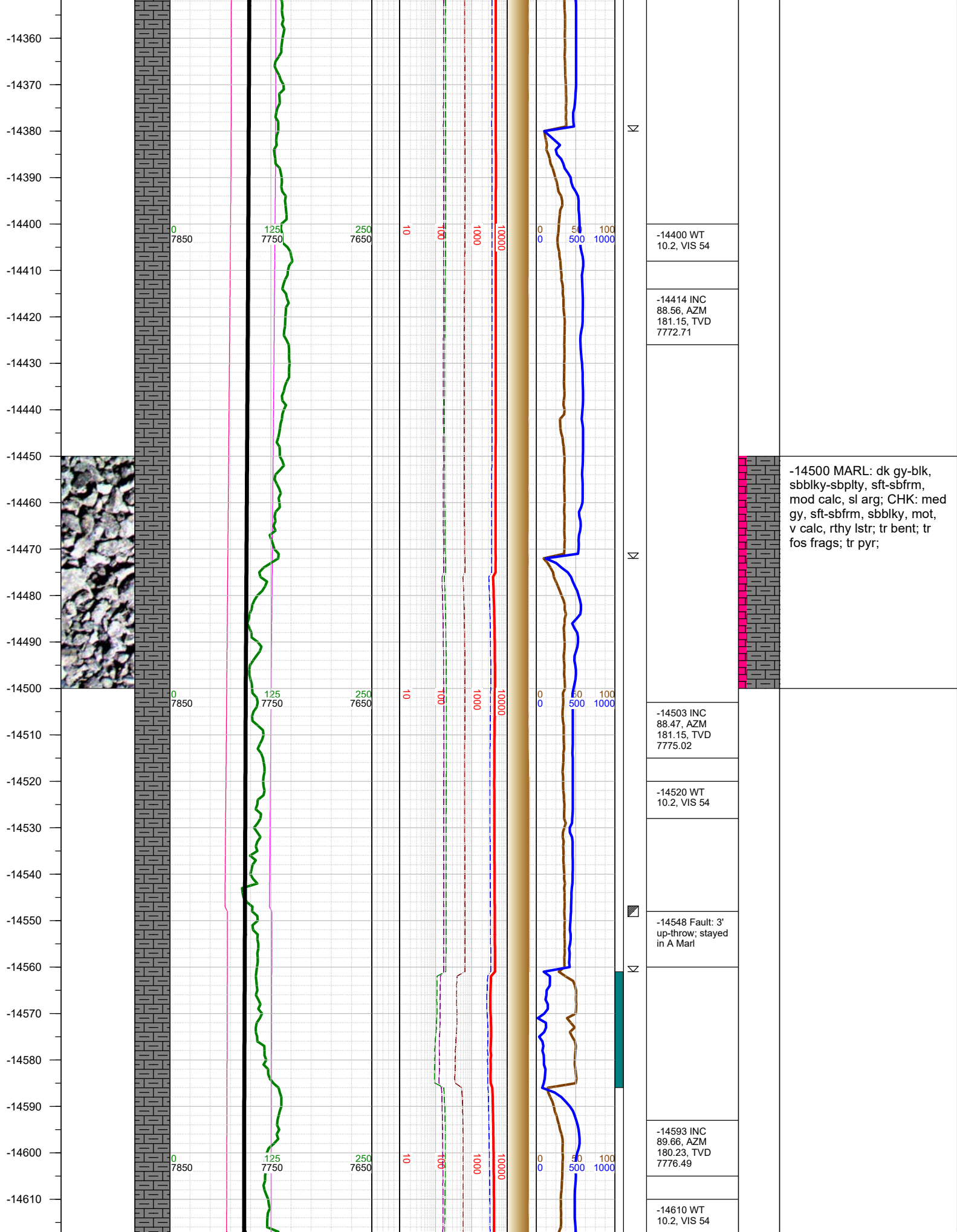


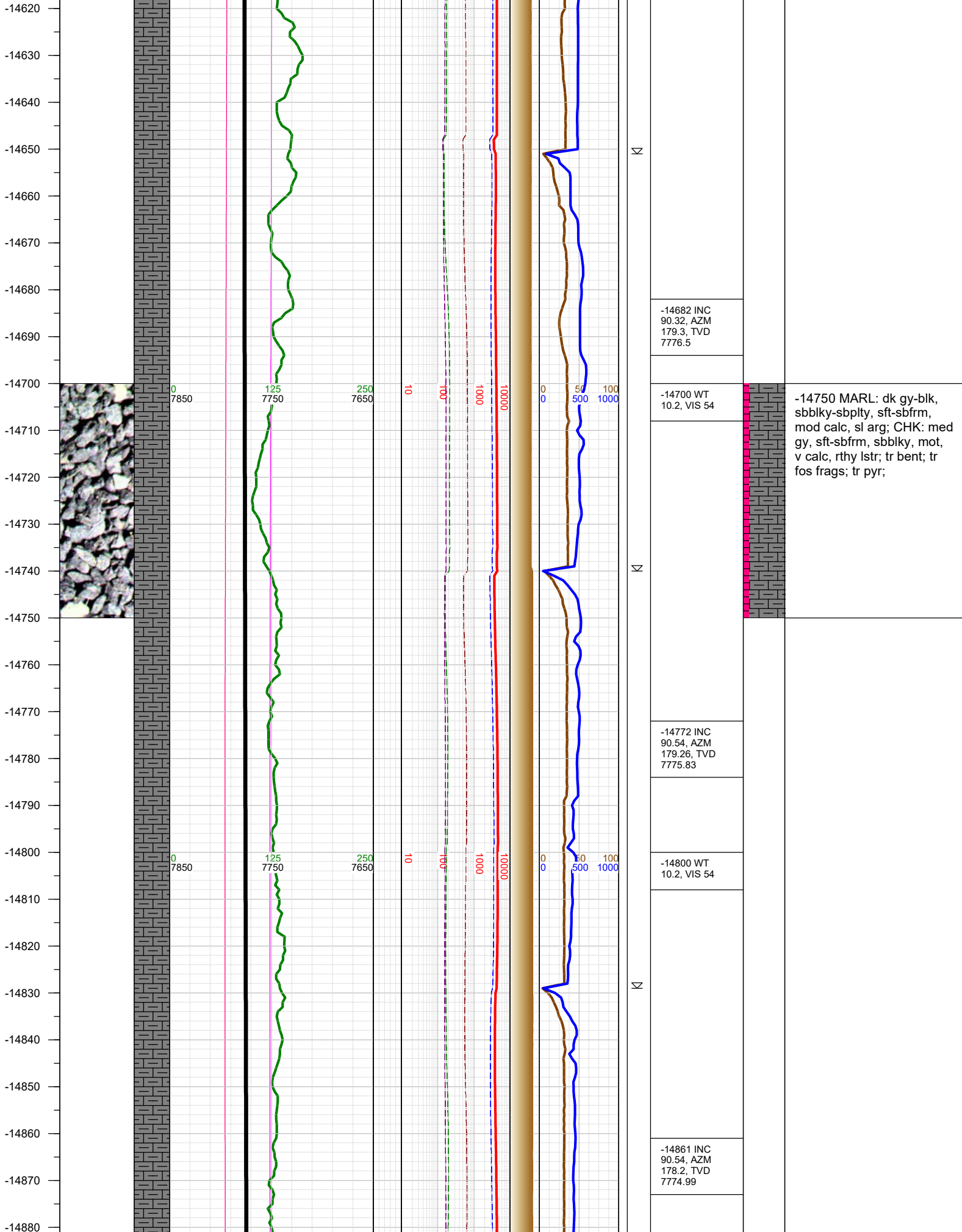


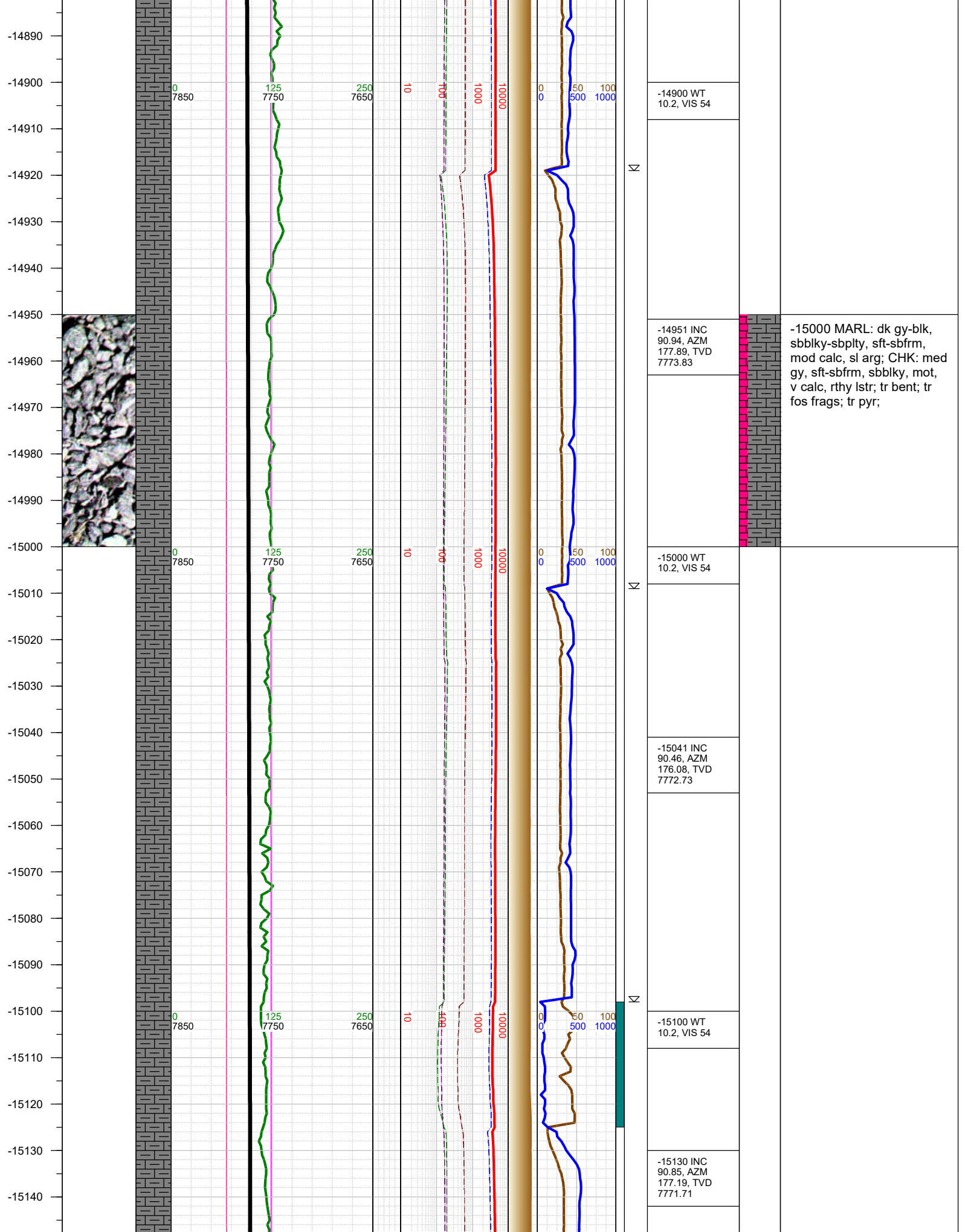


-14250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr bent; tr fos frags; tr pyr;

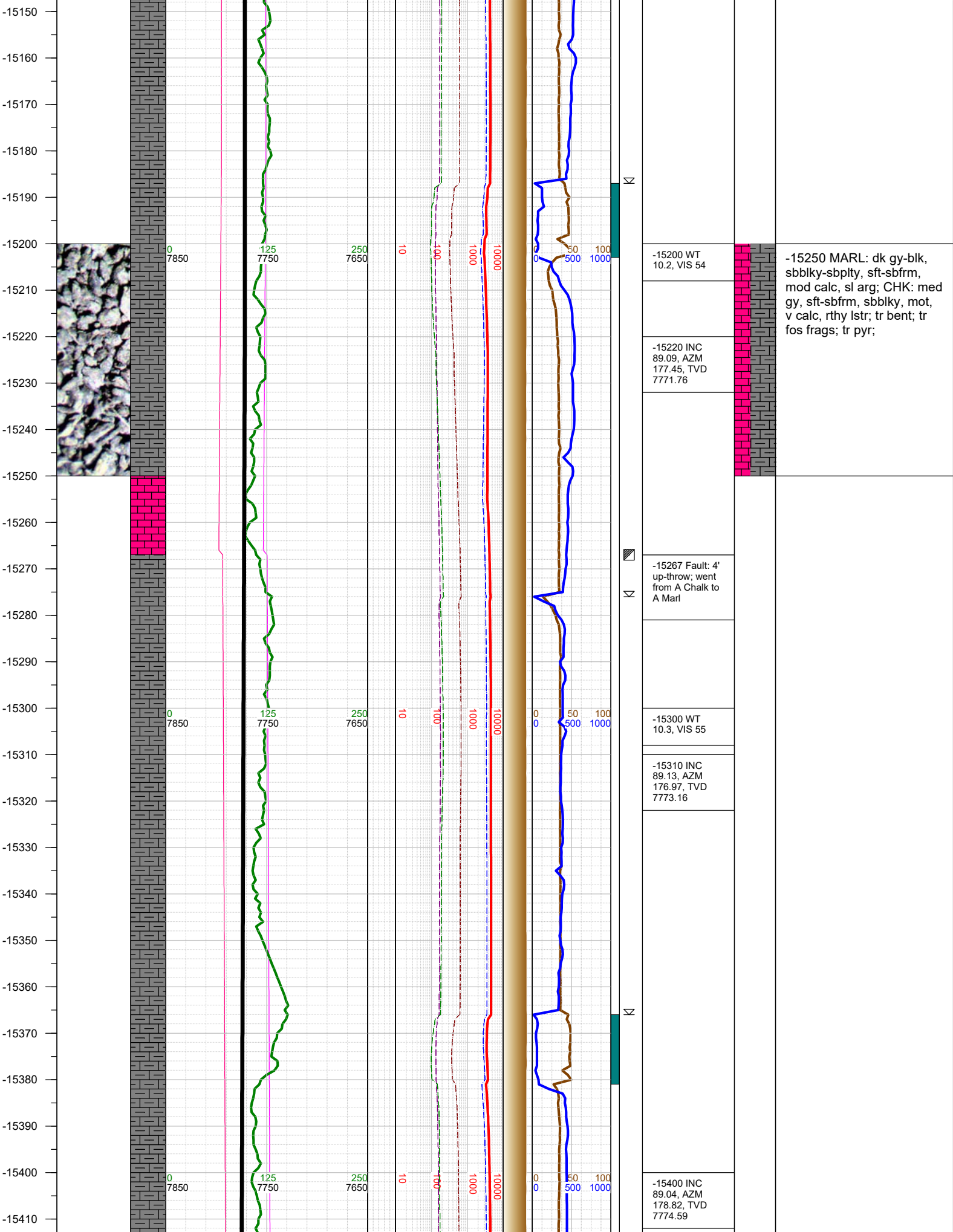


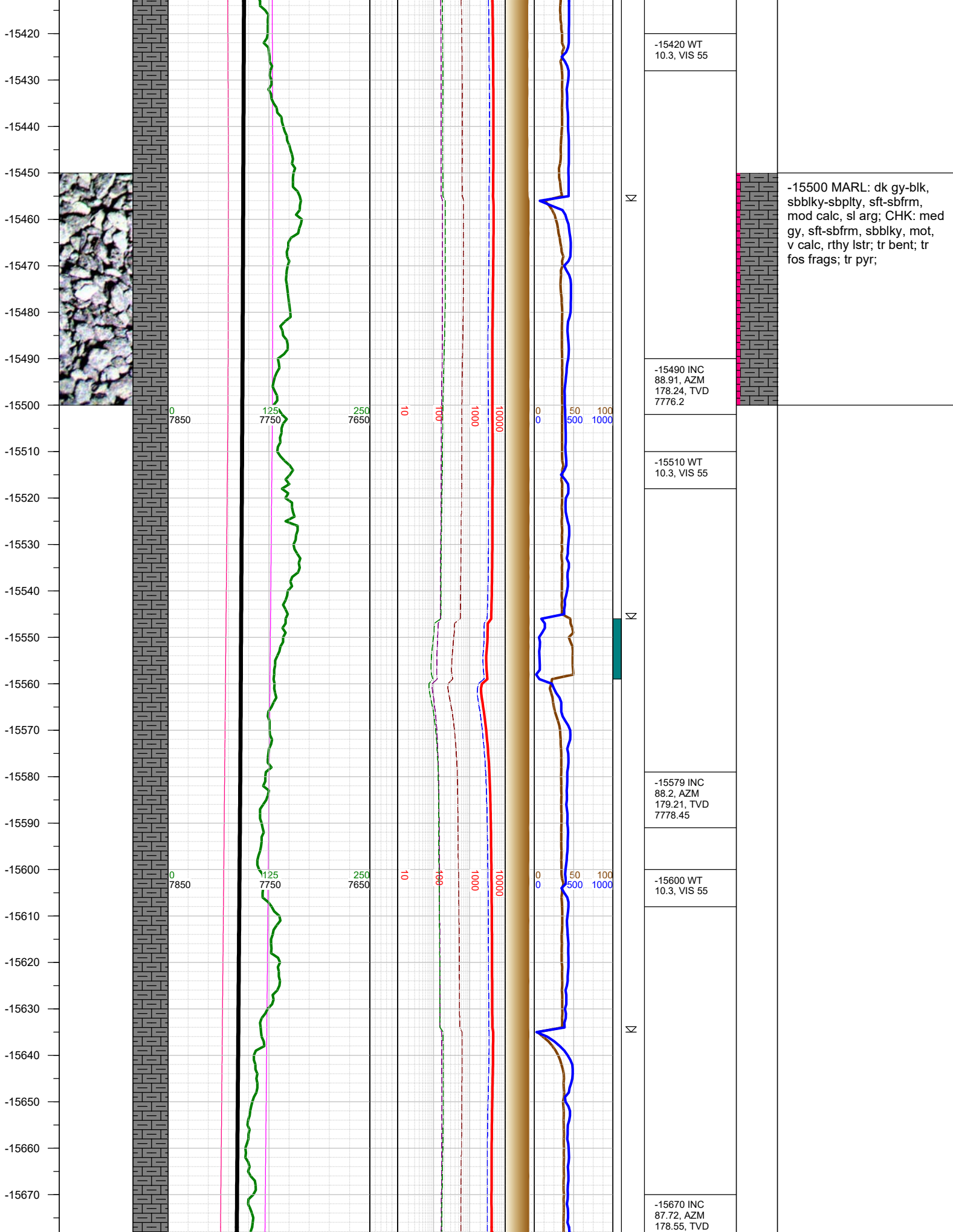


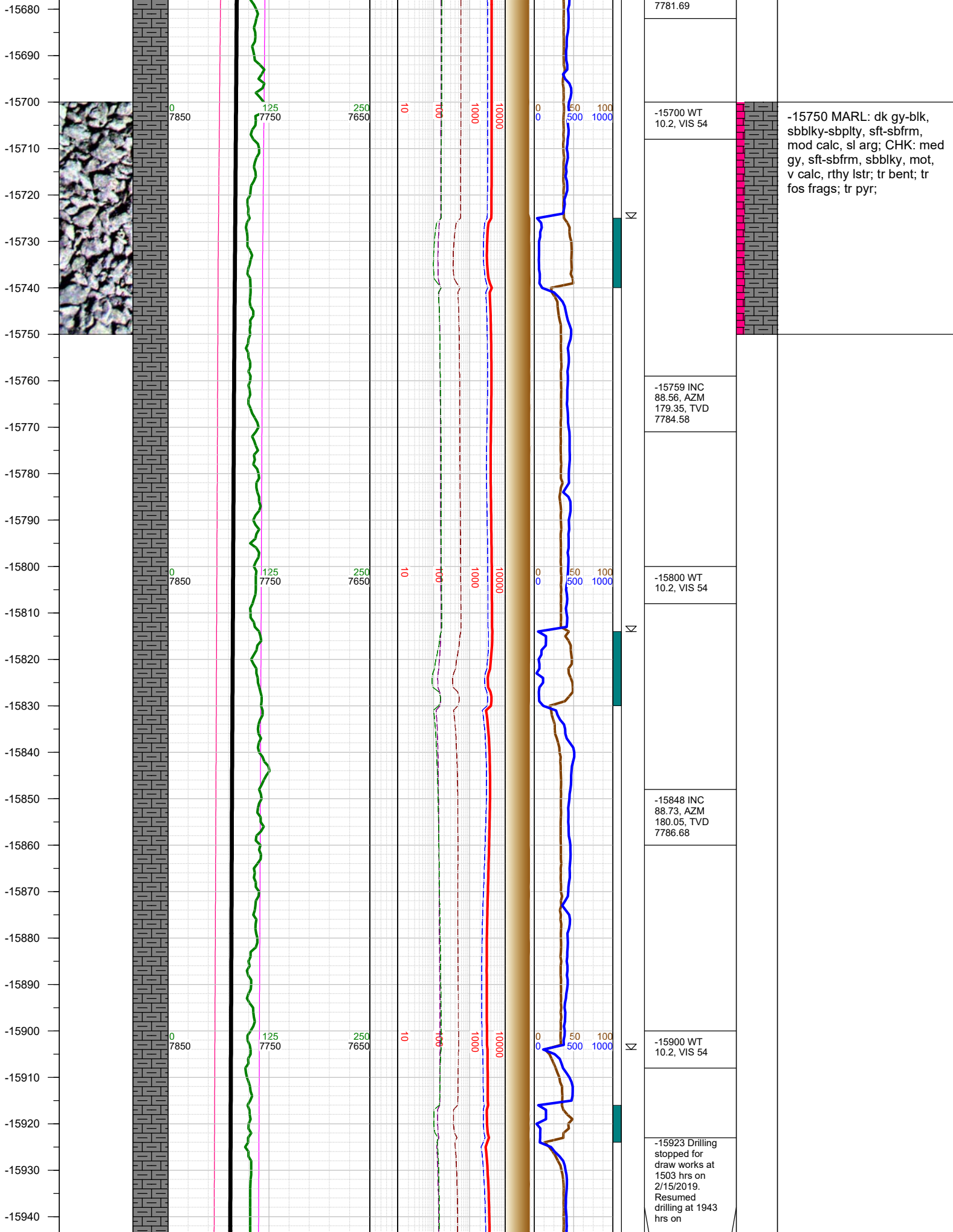




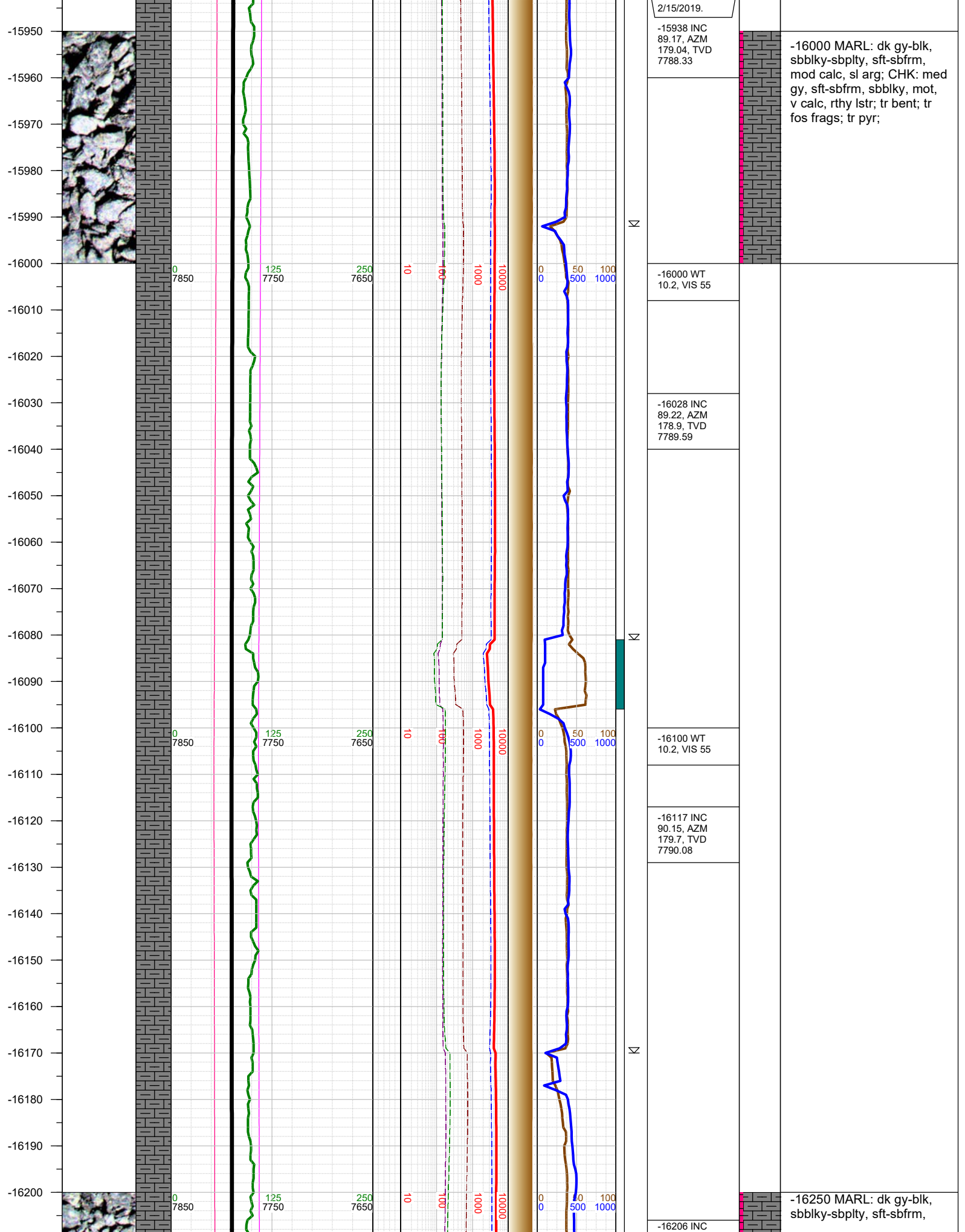


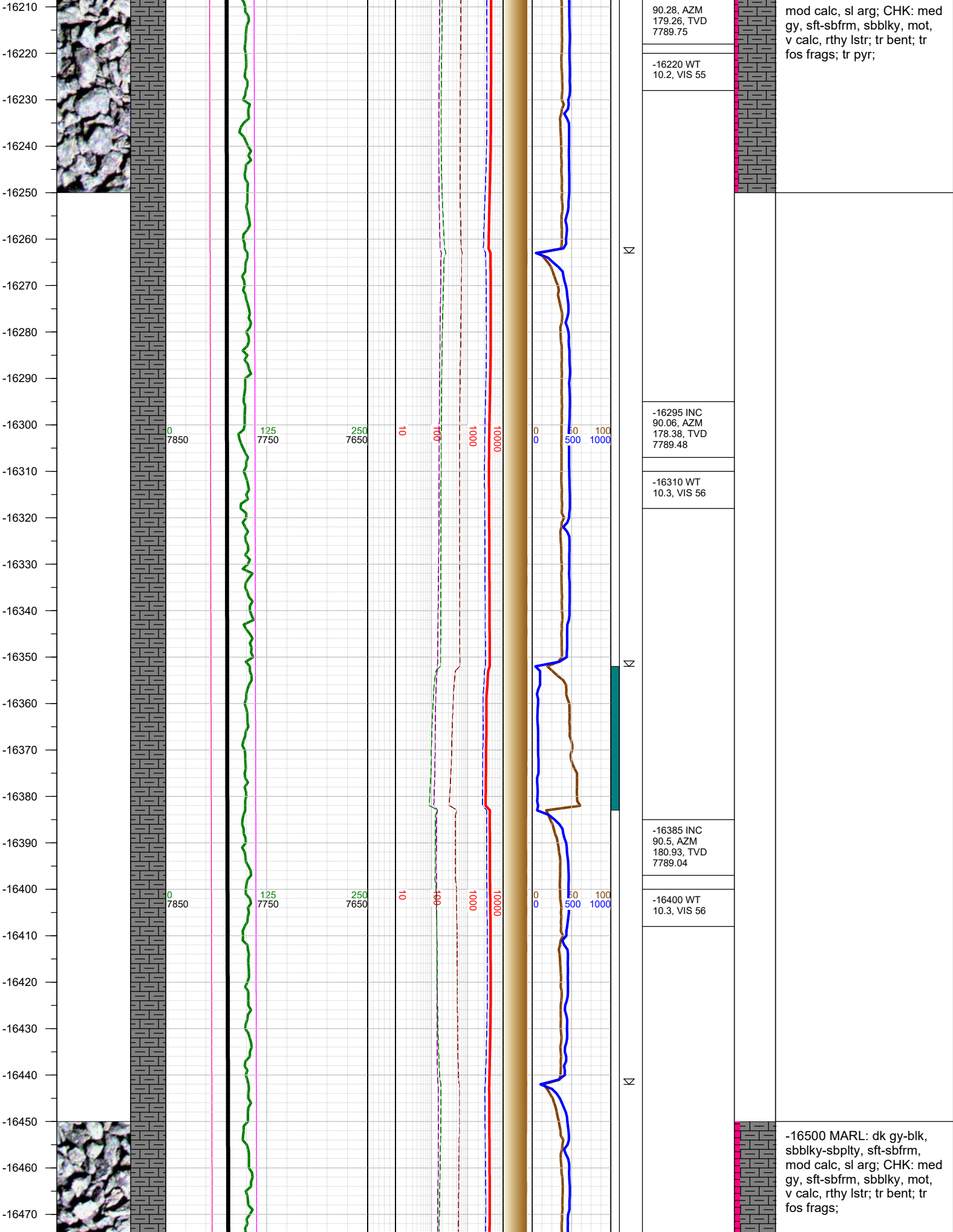


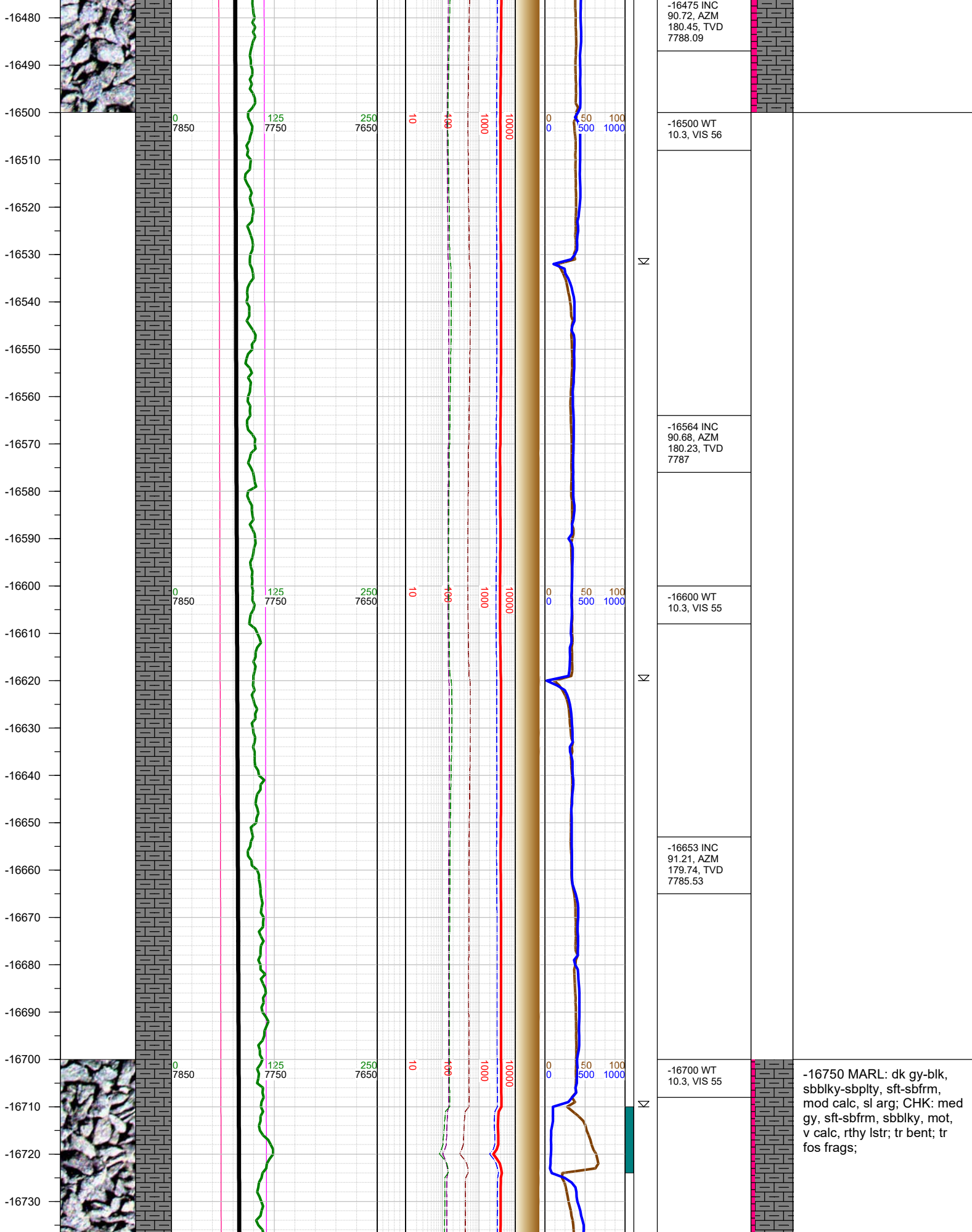












-16475 INC  
90.72, AZM  
180.45, TVD  
7788.09

-16500 WT  
10.3, VIS 56

-16564 INC  
90.68, AZM  
180.23, TVD  
7787

-16600 WT  
10.3, VIS 55

-16653 INC  
91.21, AZM  
179.74, TVD  
7785.53

-16700 WT  
10.3, VIS 55

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



