

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **United B S16-20-11N**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Ensign 769

API #: 05-014-20801

LAT/LONG: 39.985189, -105.000568

SURFACE HOLE: NENE S9-T1S-R68W, 542' FNL, 939' FEL

BOTTOM HOLE: S9-T1S-R68W, 448' FNL, 1205' FEL



Earth Science Agency, LLC

COUNTY: Broomfield

STATE: Colorado

GROUND ELEVATION: 5255'

KELLY BUSHING: 5283'

DRILLING FLUID: OBM

TVD VS. MD: 7882' / 18366'

LOGGING START DATE: November 24, 2021

TD DATE: November 29, 2021

DEPTHS LOGGED: 6000' - 18366'

DATES LOGGED: November 24, 2021 - November 29, 2021

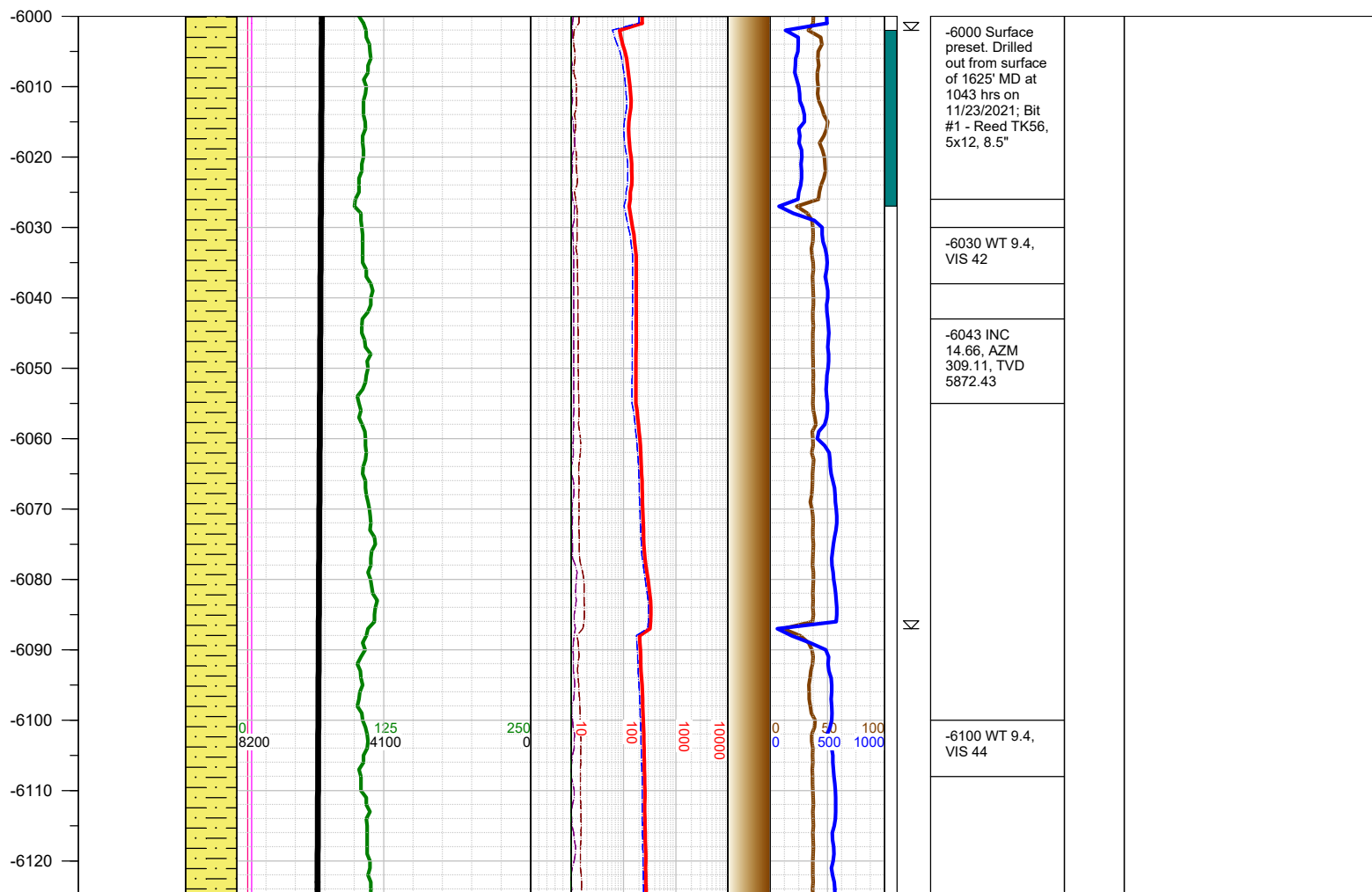
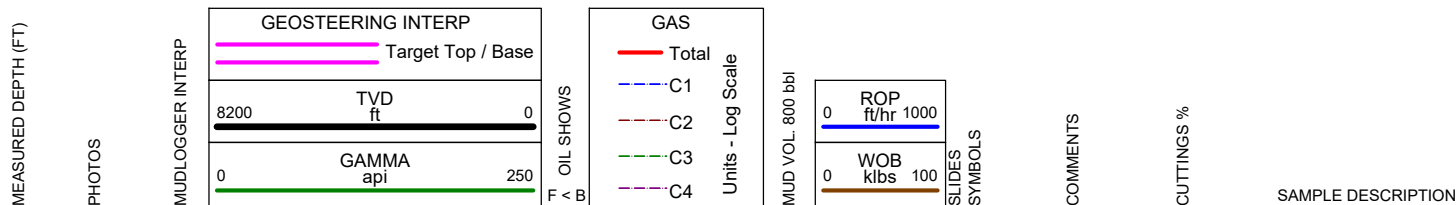
GEOLOGISTS: Ross Apodaca, Phillip McCutcheon

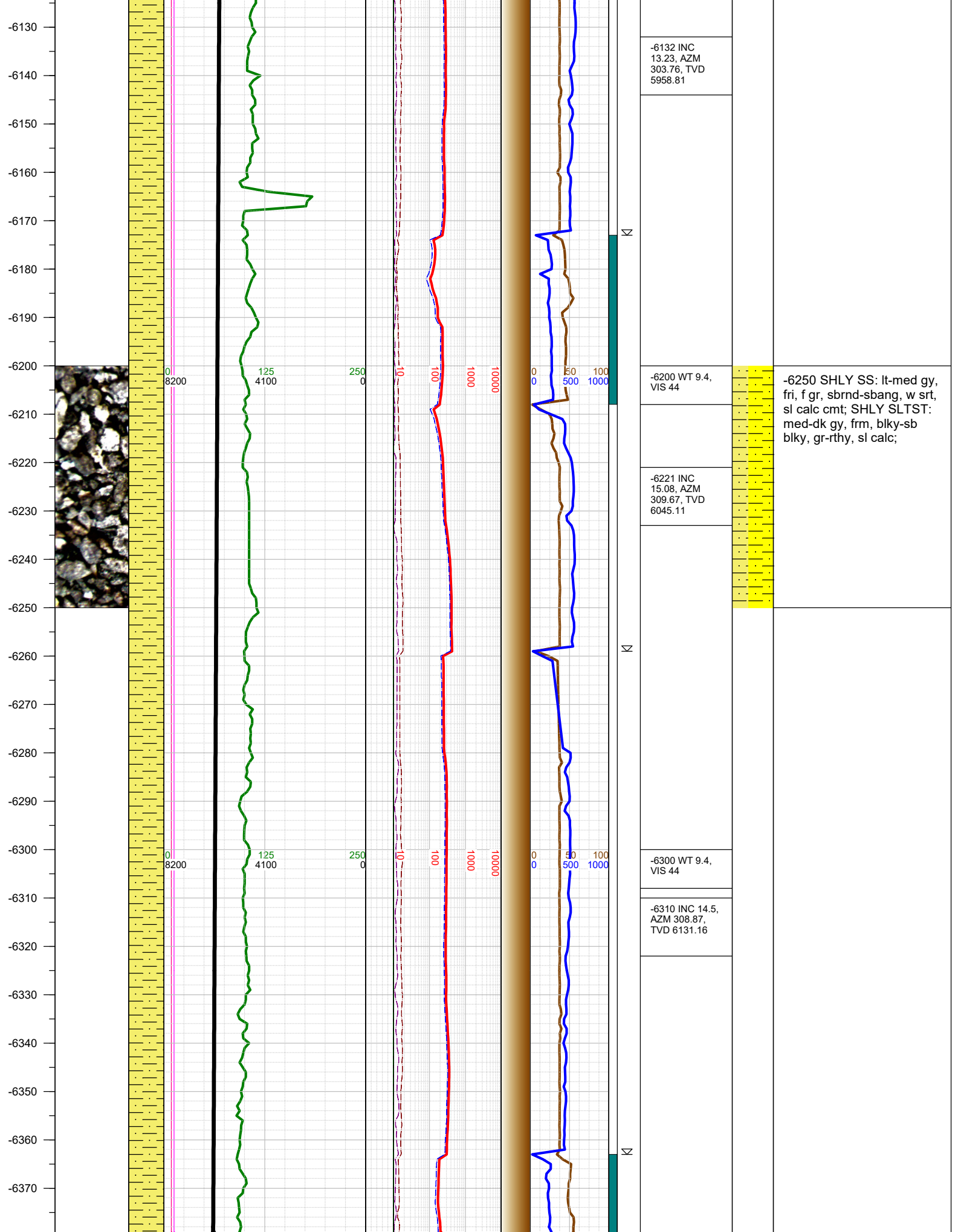
SCALE: 5" = 100'

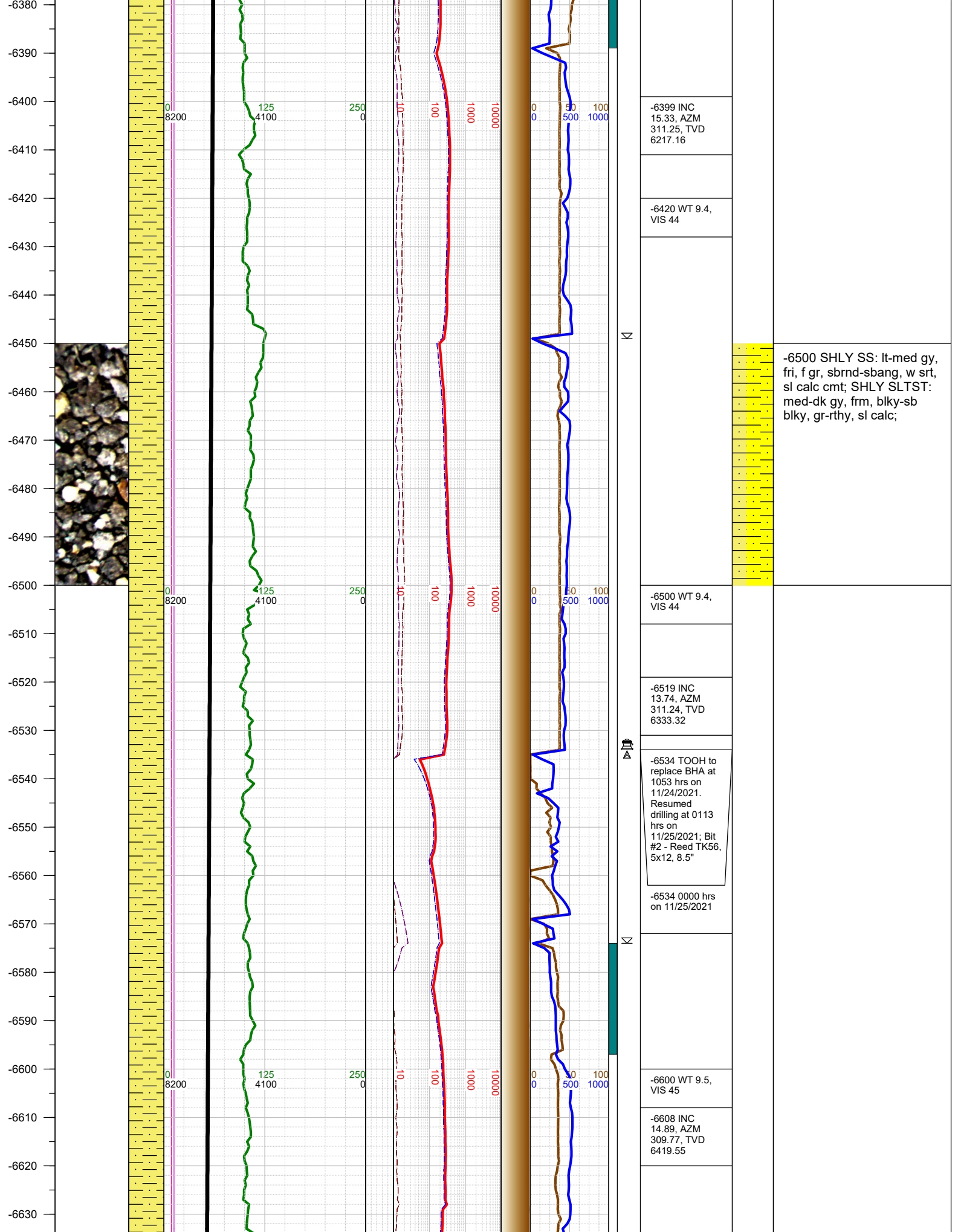
LEGEND

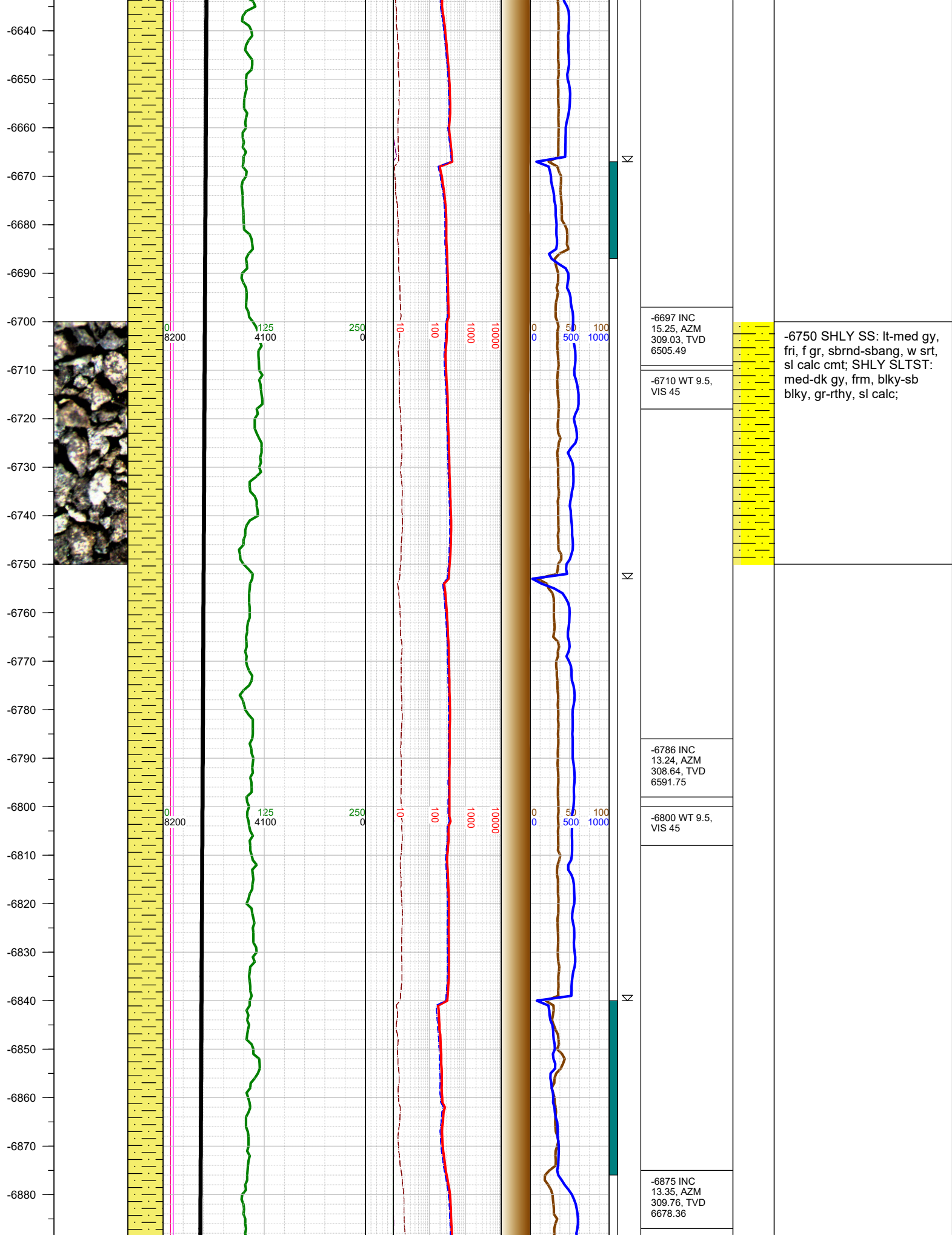
	CHALK		SHALE
	LIMESTONE		SILTY SHALE
	SHALY LIMESTONE		SHALY SILTSTONE
	MARLSTONE		SHALY SANDSTONE
	CALCAREOUS SHALE		SANDSTONE
	DOLOMITE		ANHYDRITE

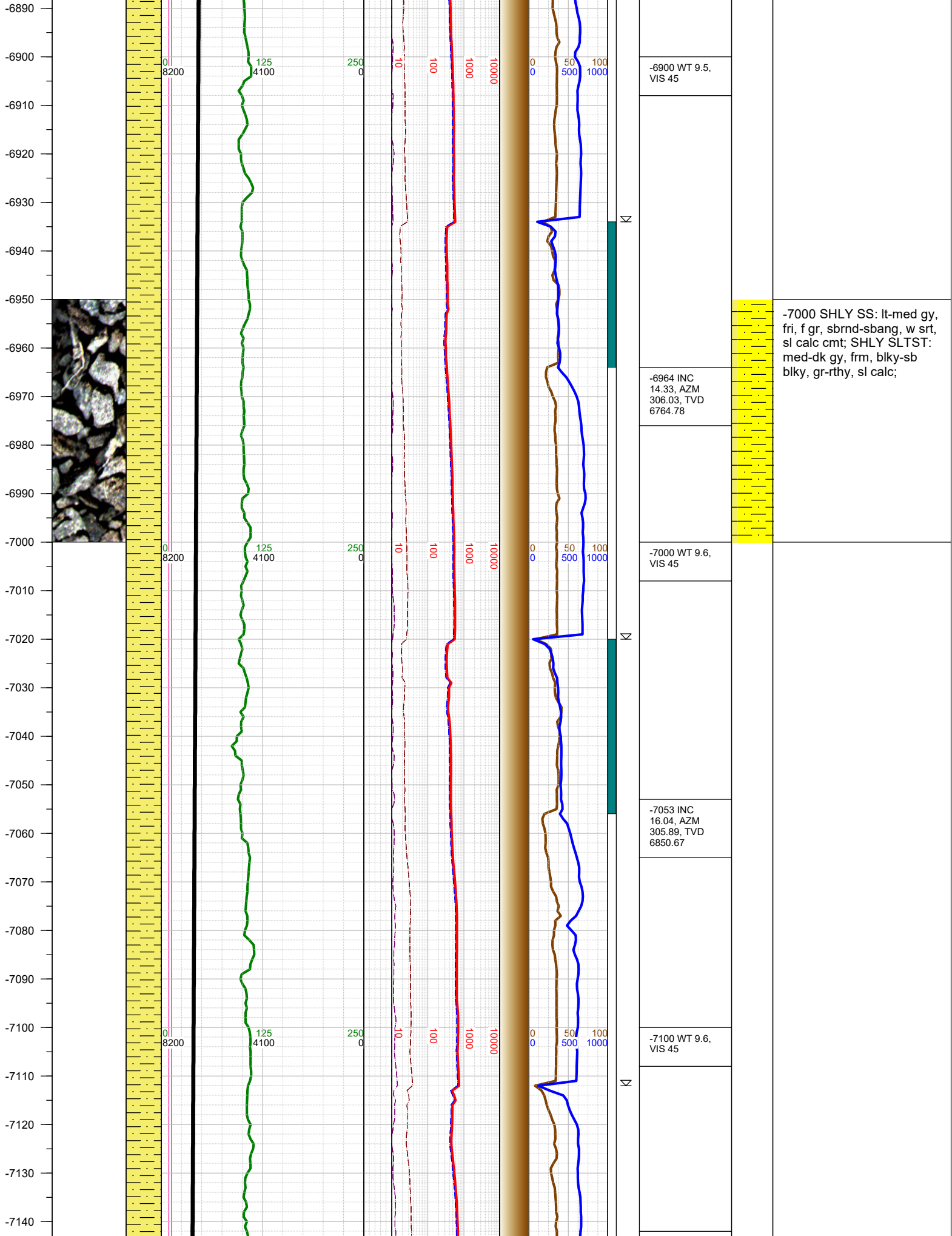
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

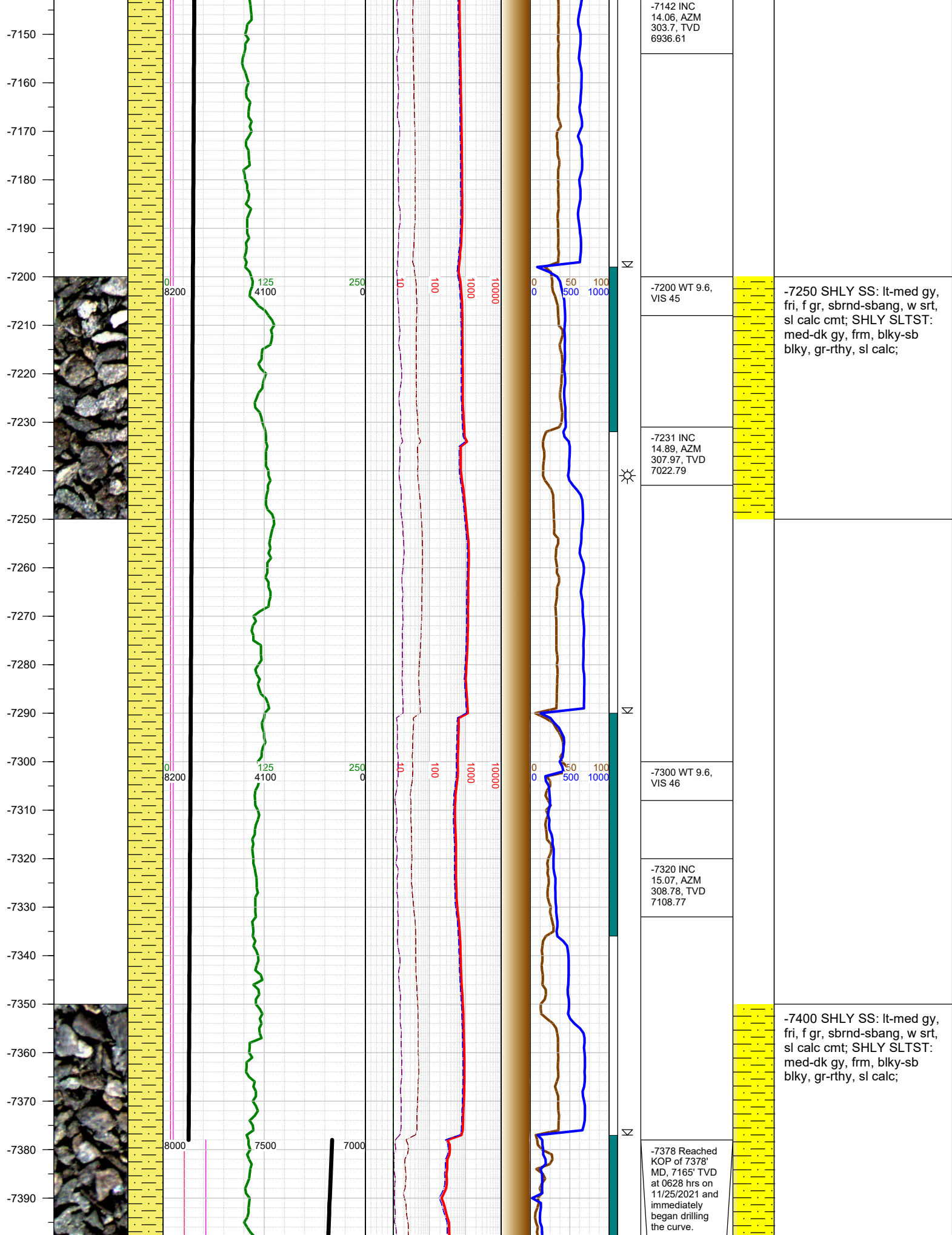


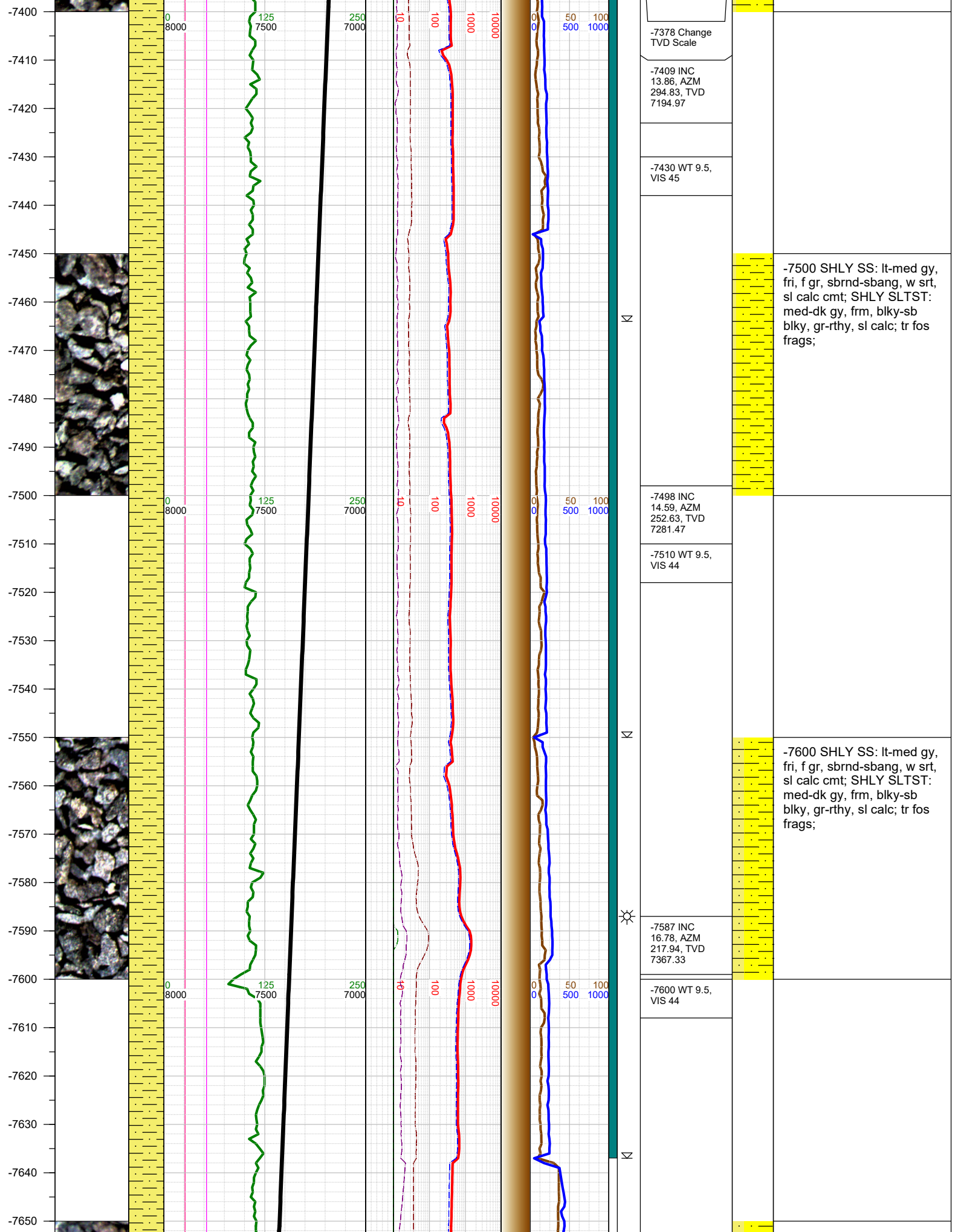


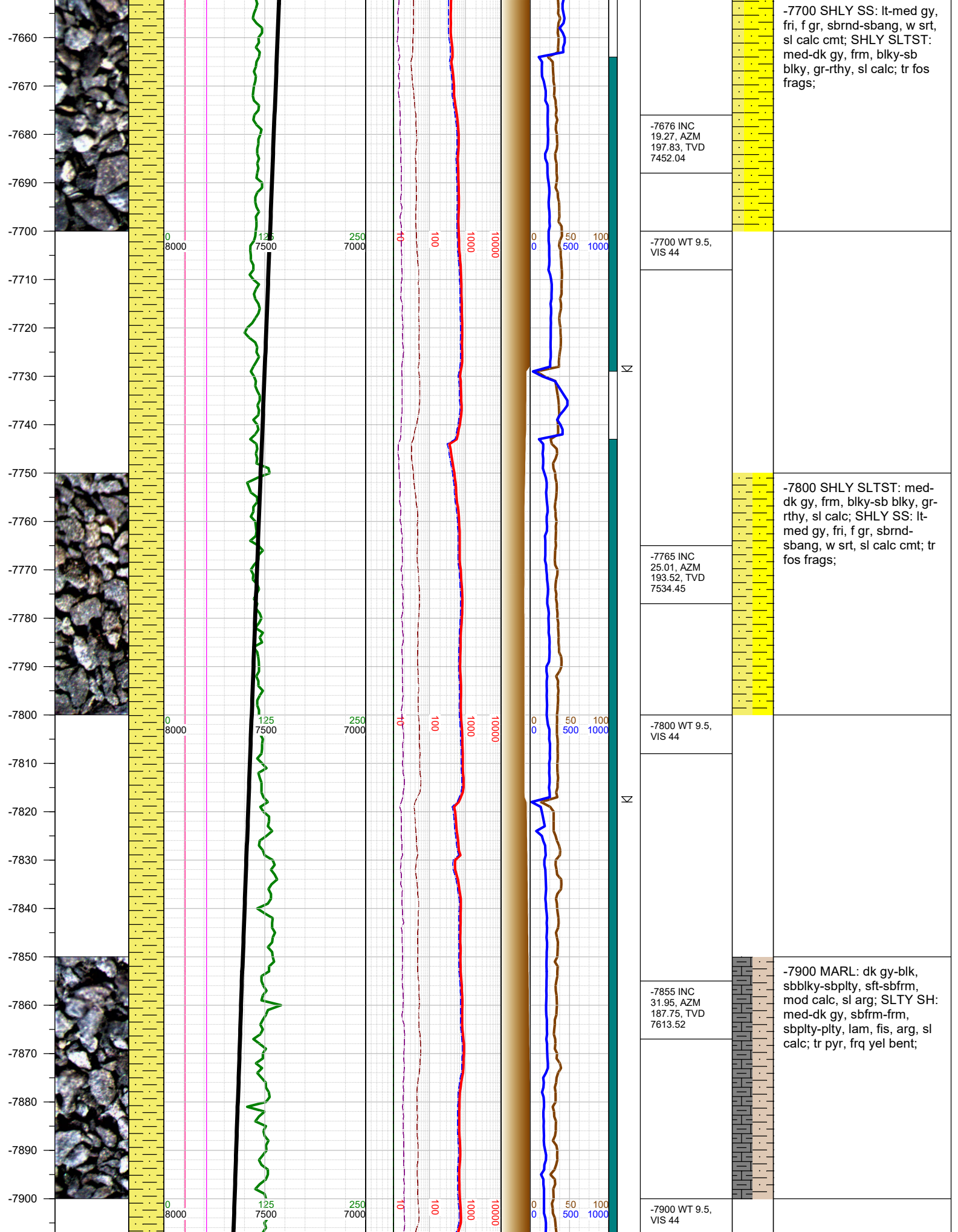


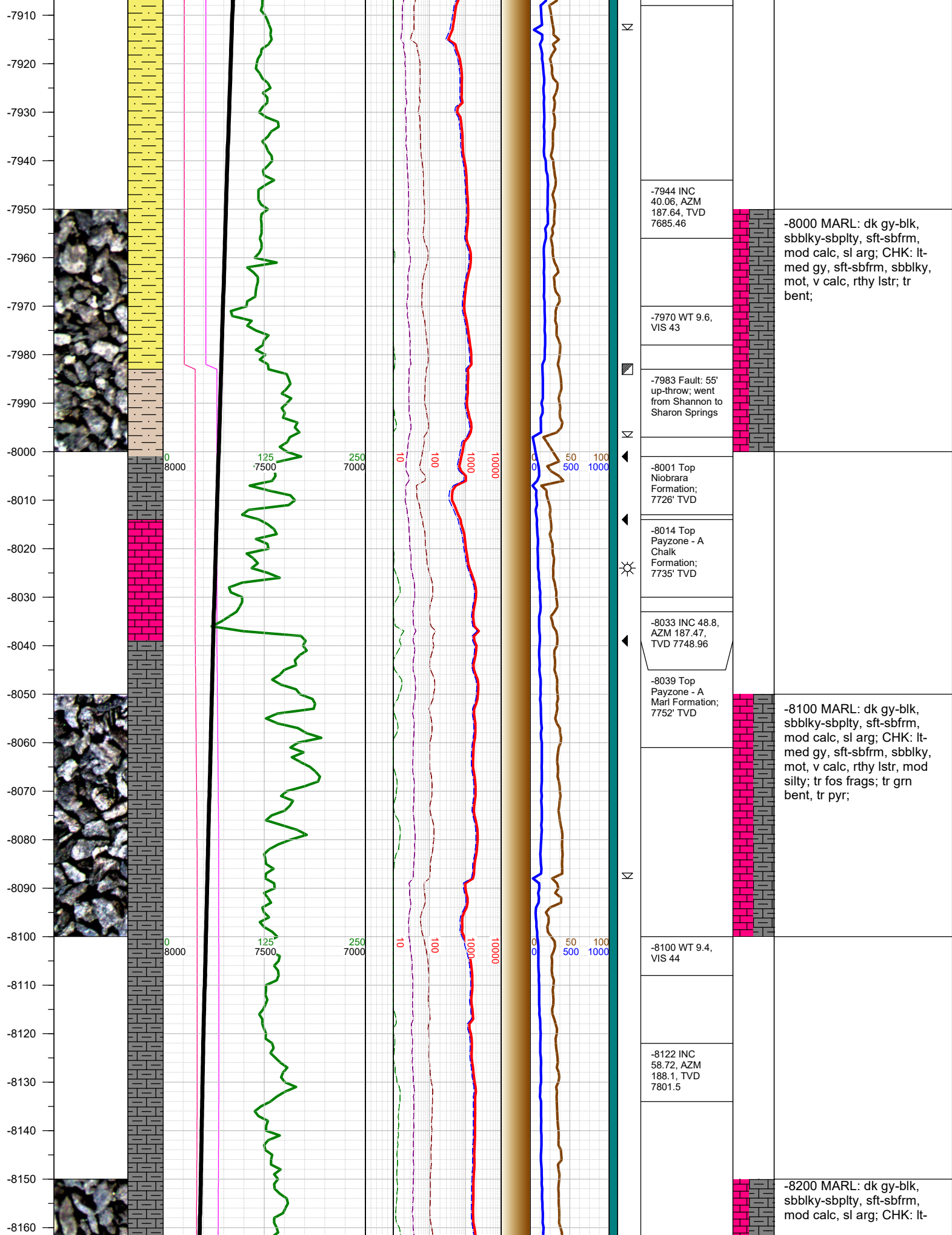


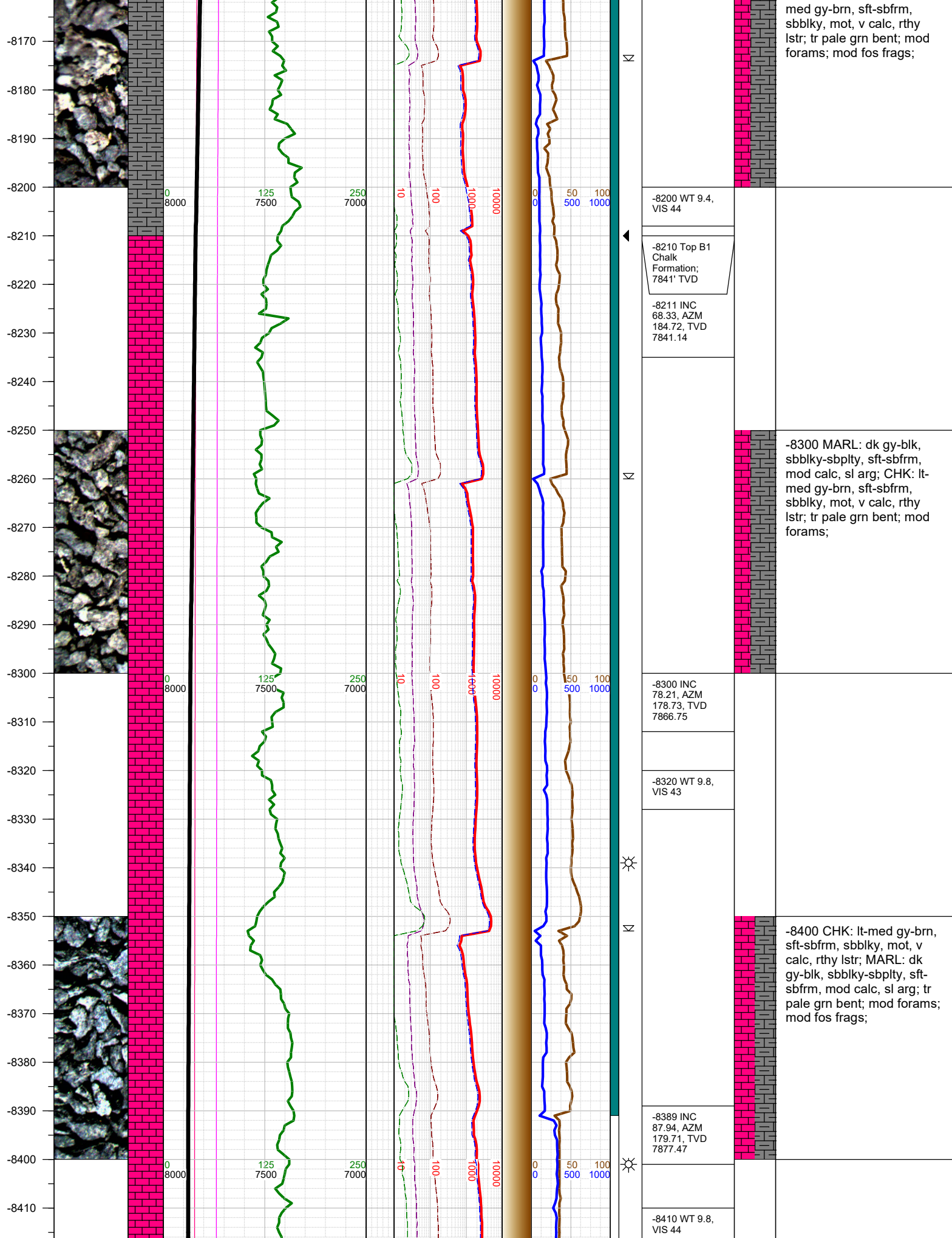


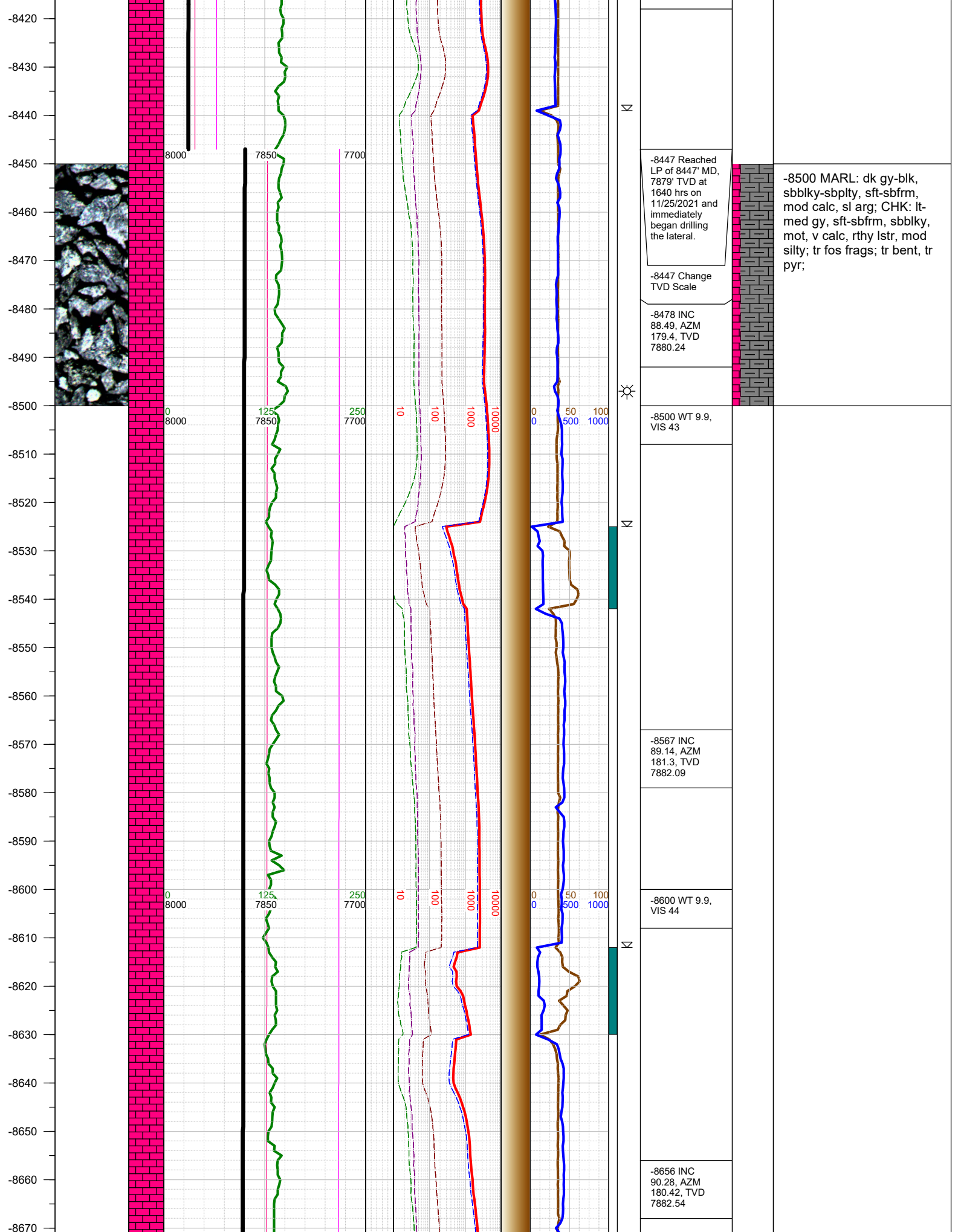


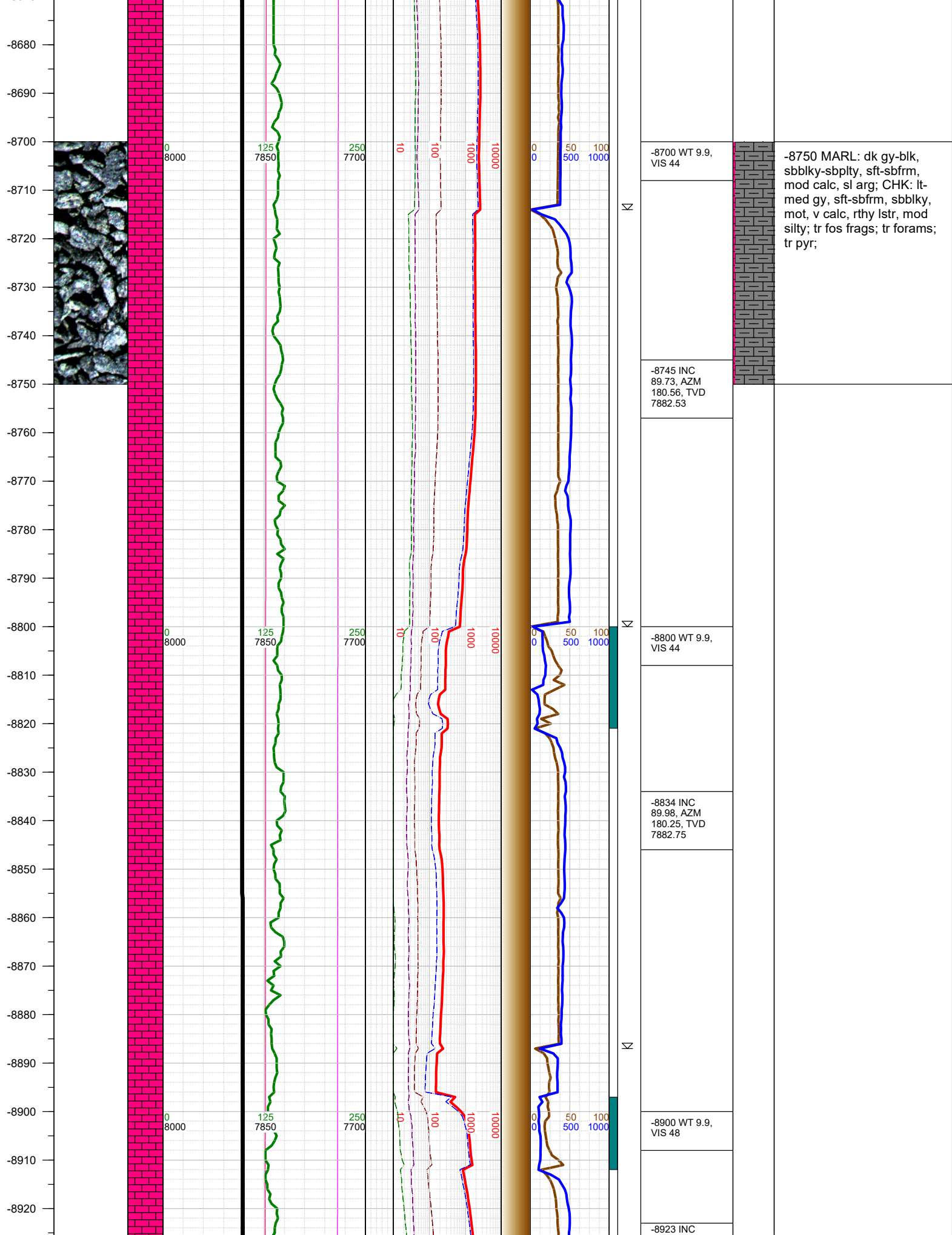


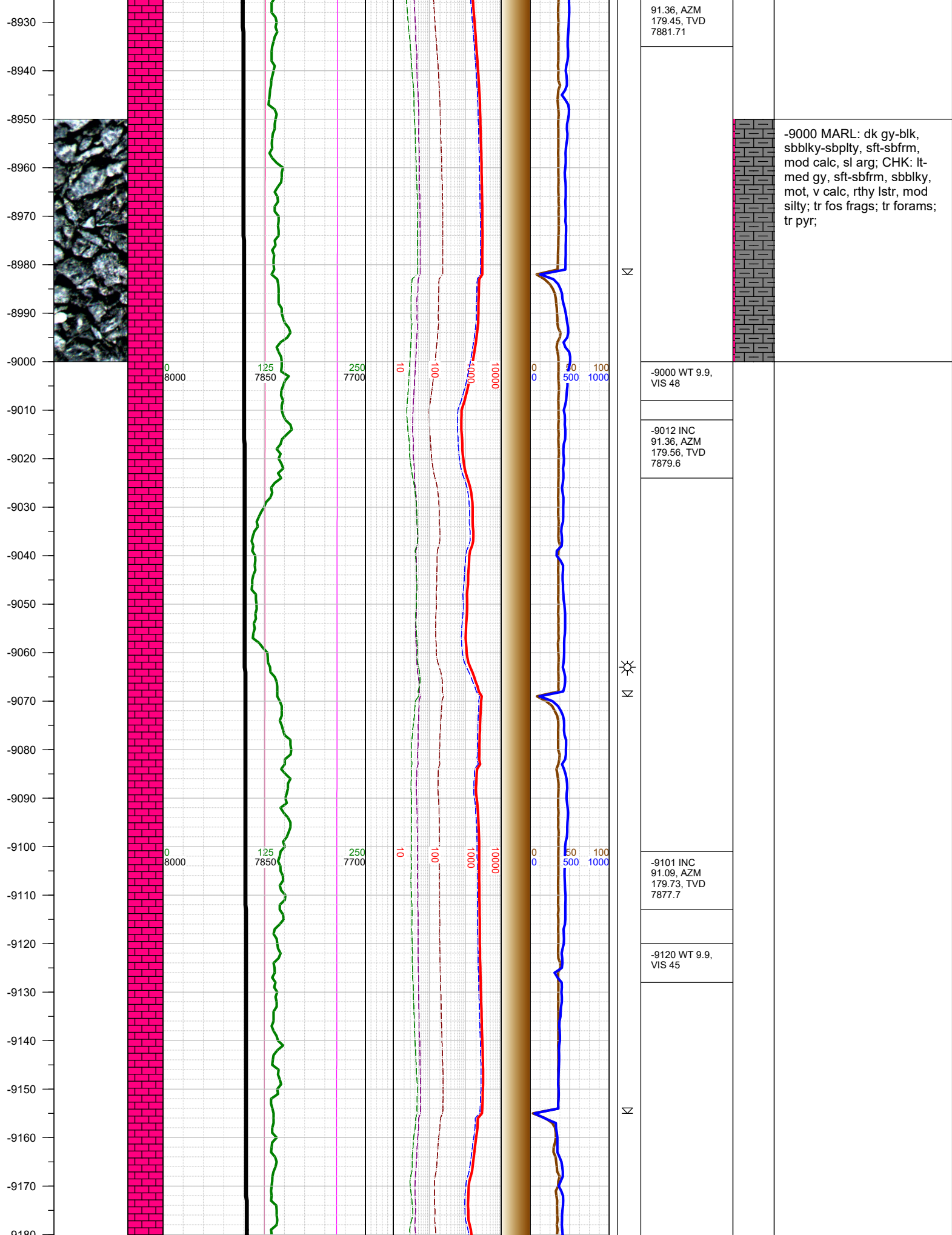


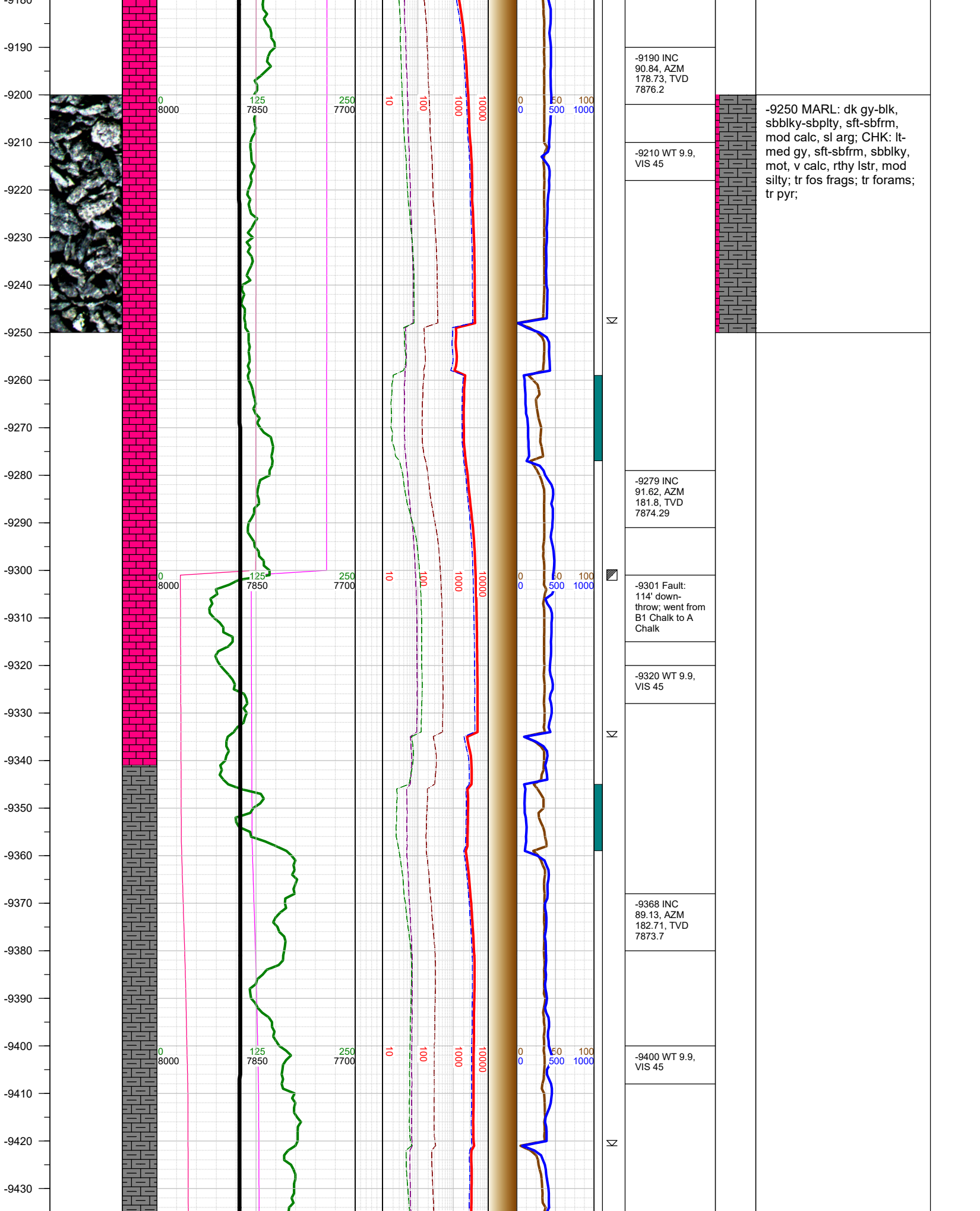


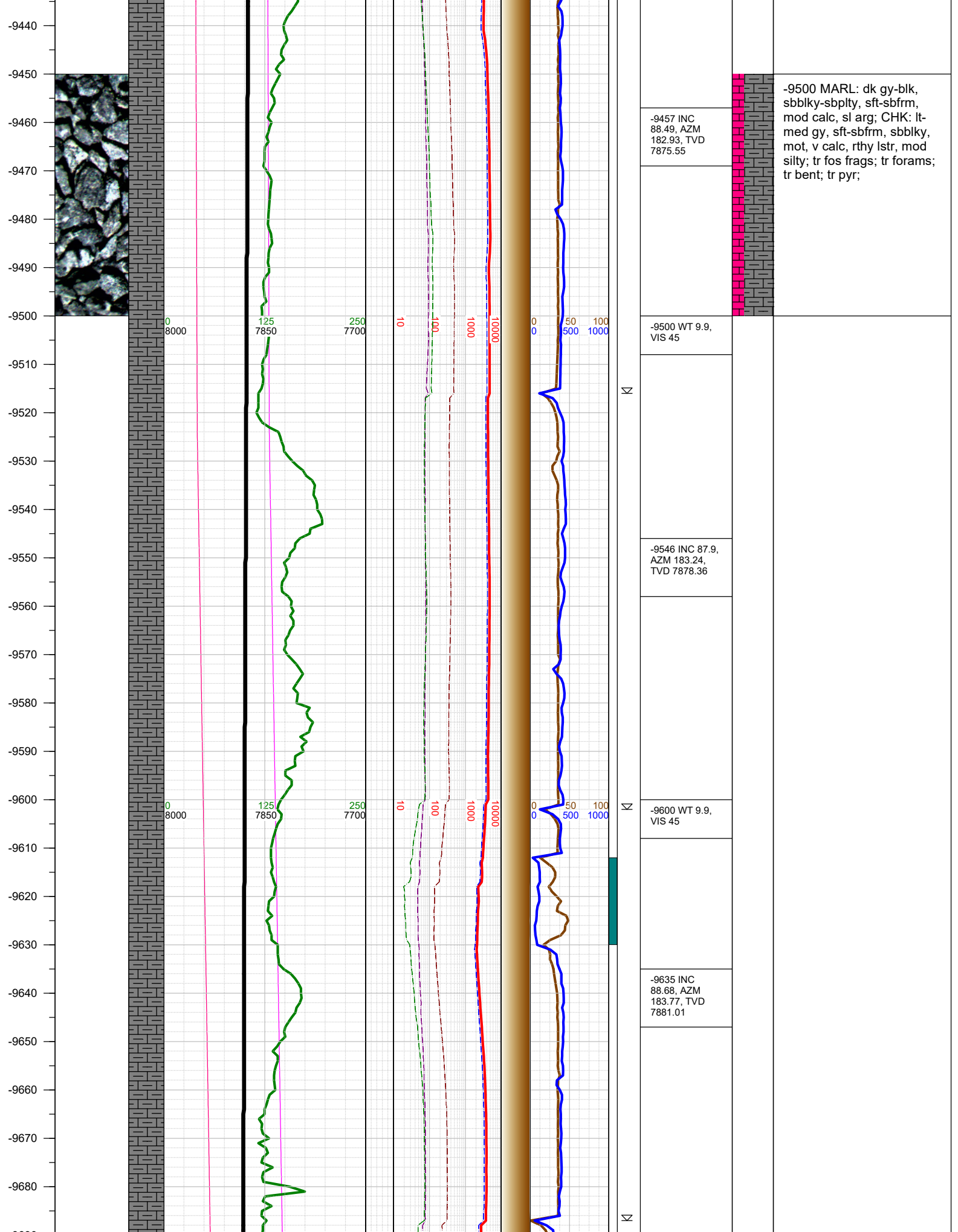


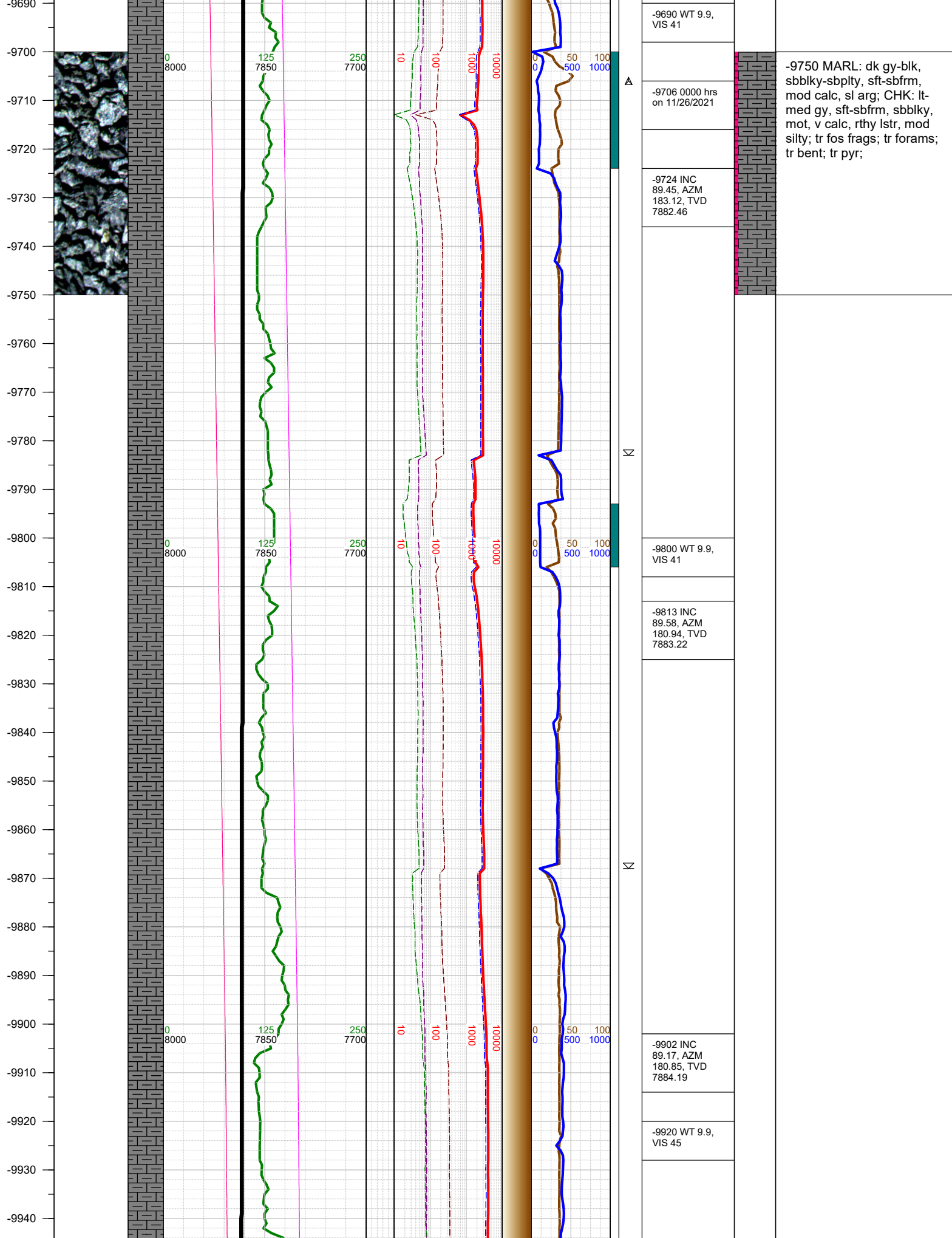


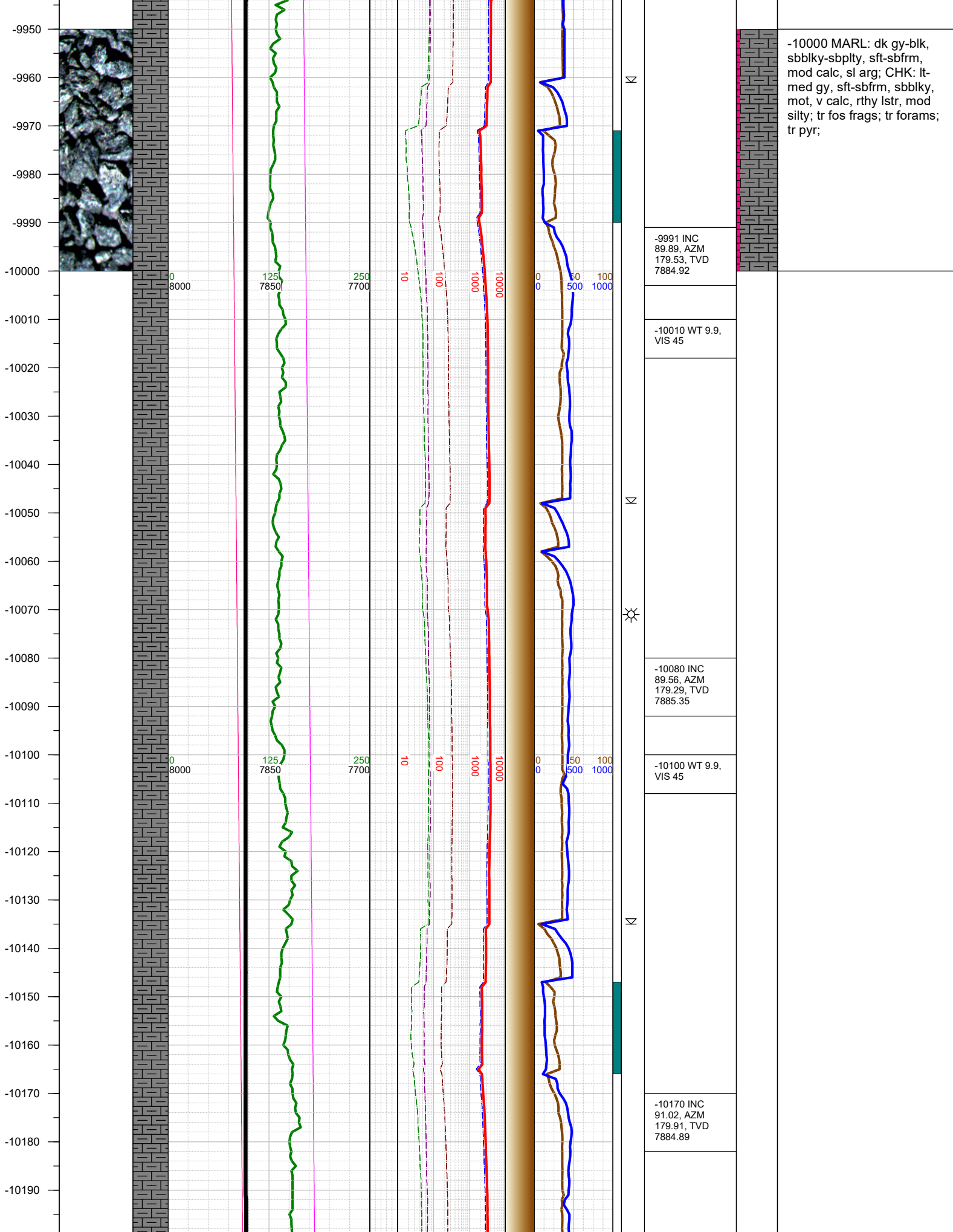












-10000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr, mod silty; tr fos frags; tr forams; tr pyr;

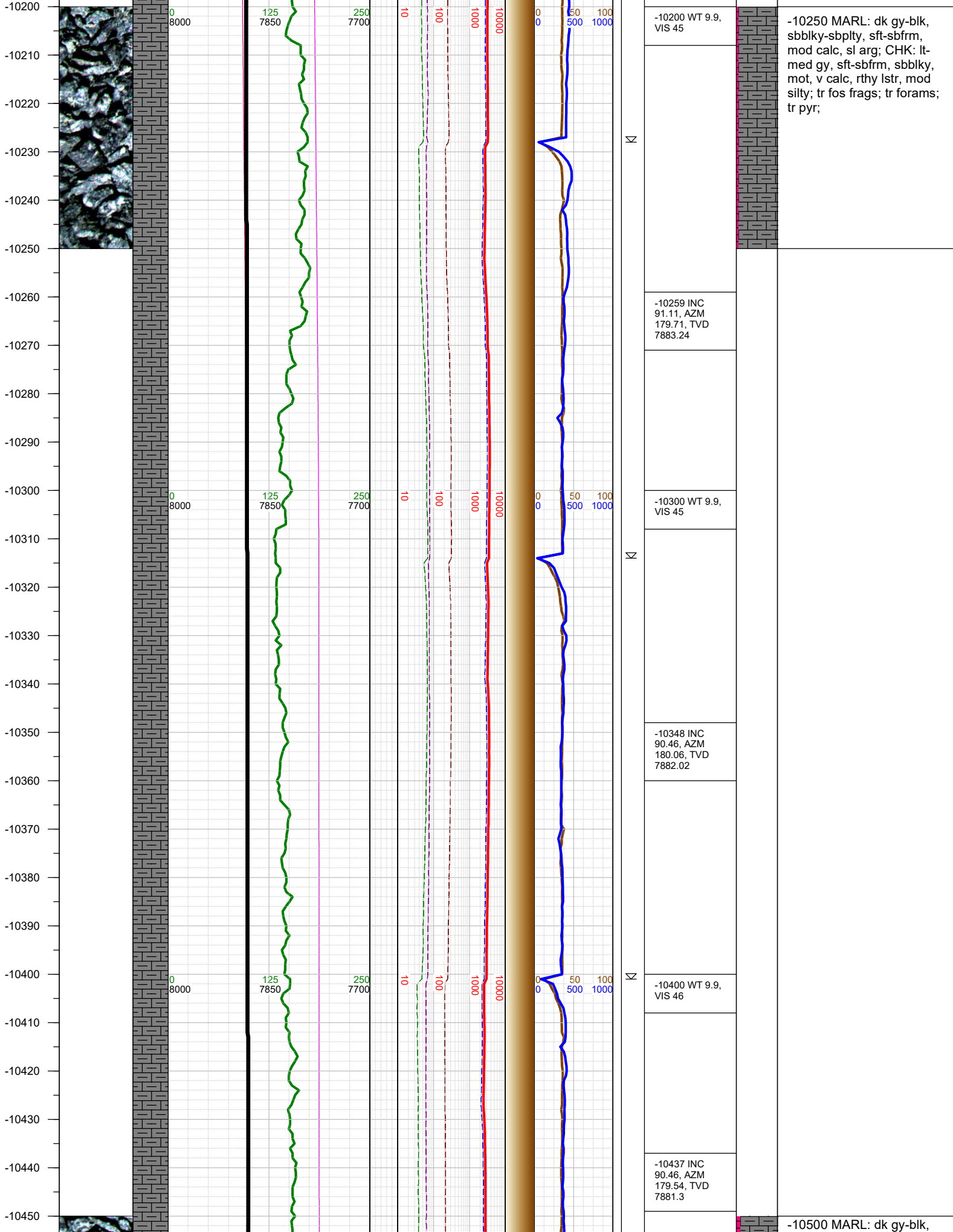
-9991 INC
89.89, AZM
179.53, TVD
7884.92

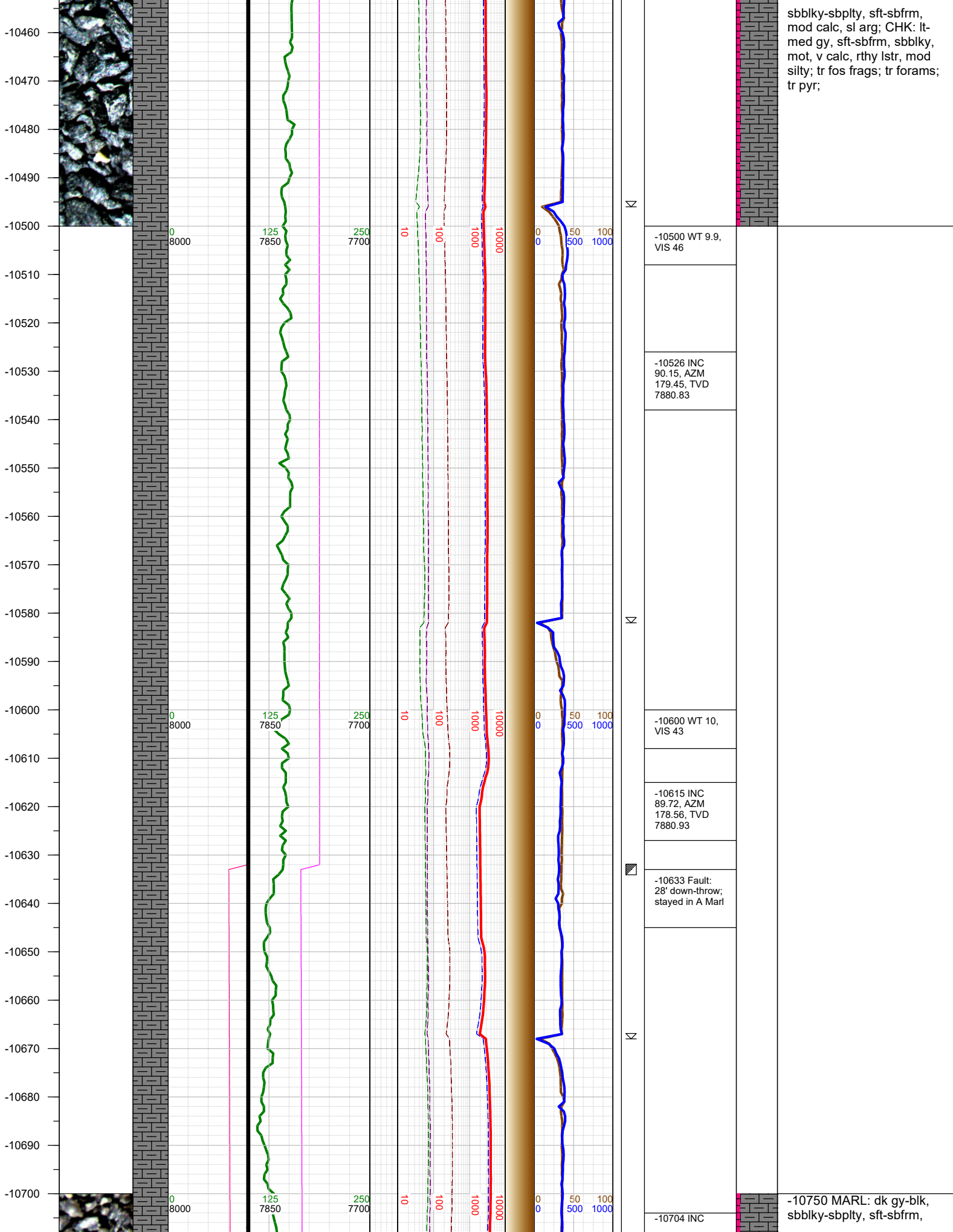
-10010 WT 9.9,
VIS 45

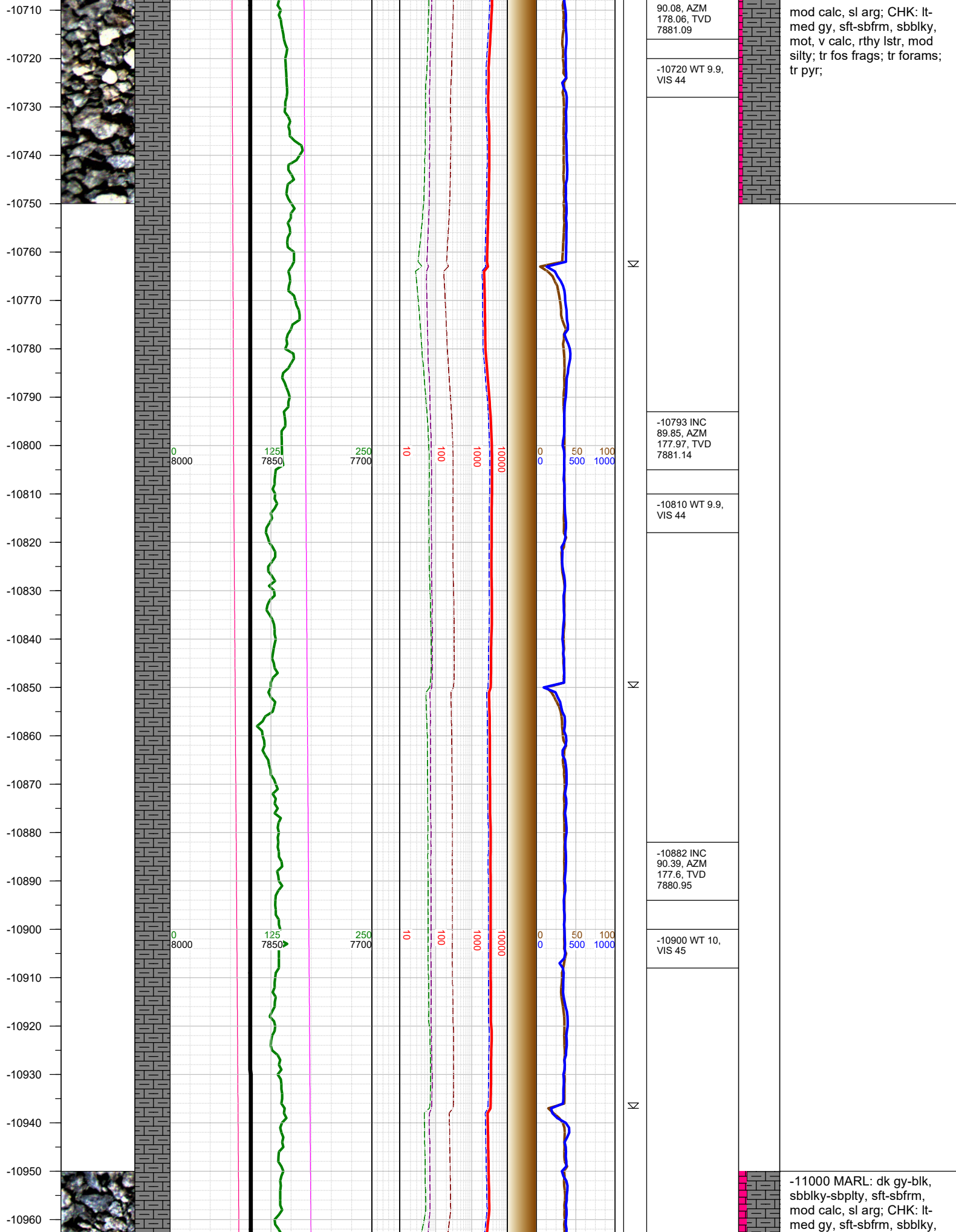
-10080 INC
89.56, AZM
179.29, TVD
7885.35

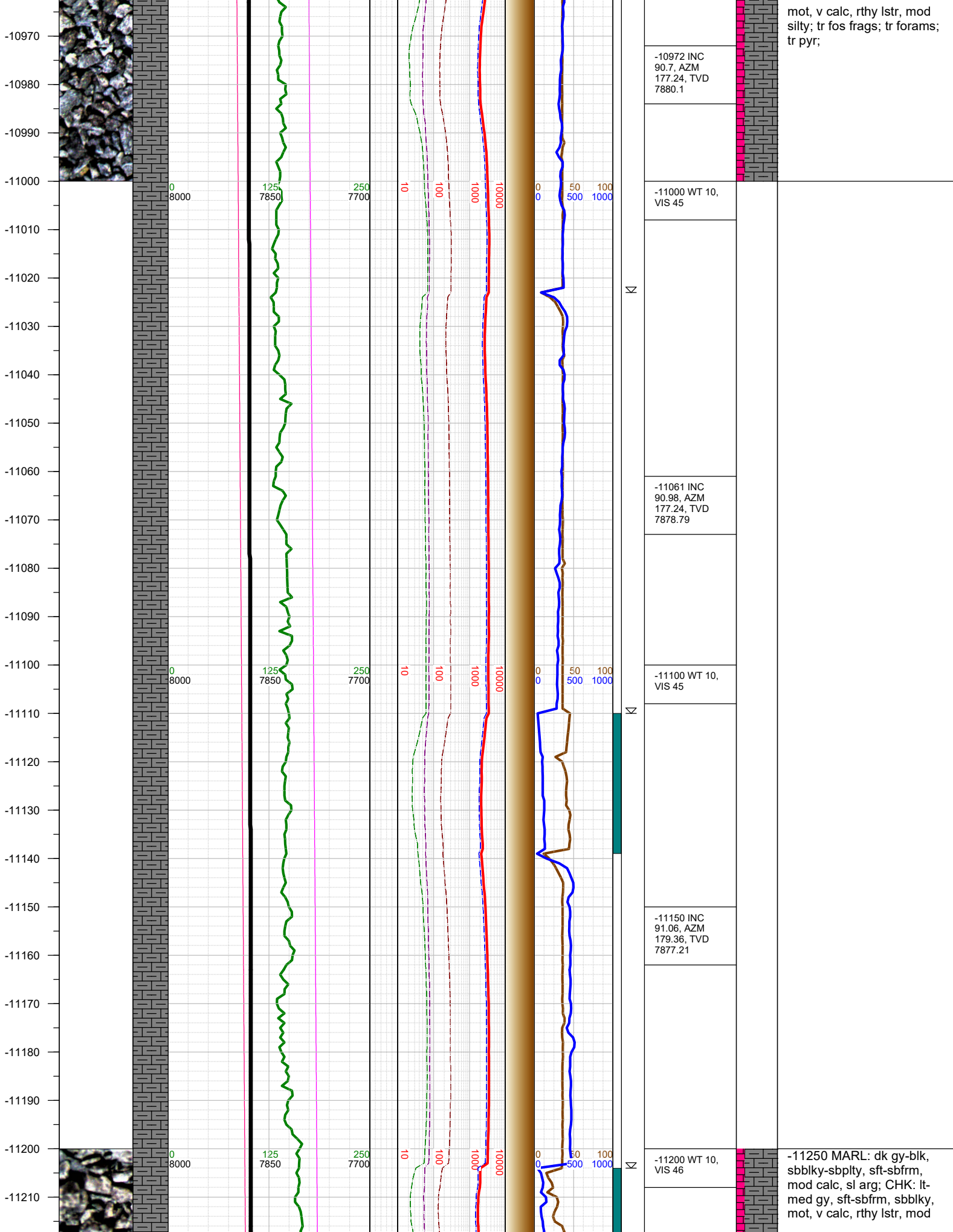
-10100 WT 9.9,
VIS 45

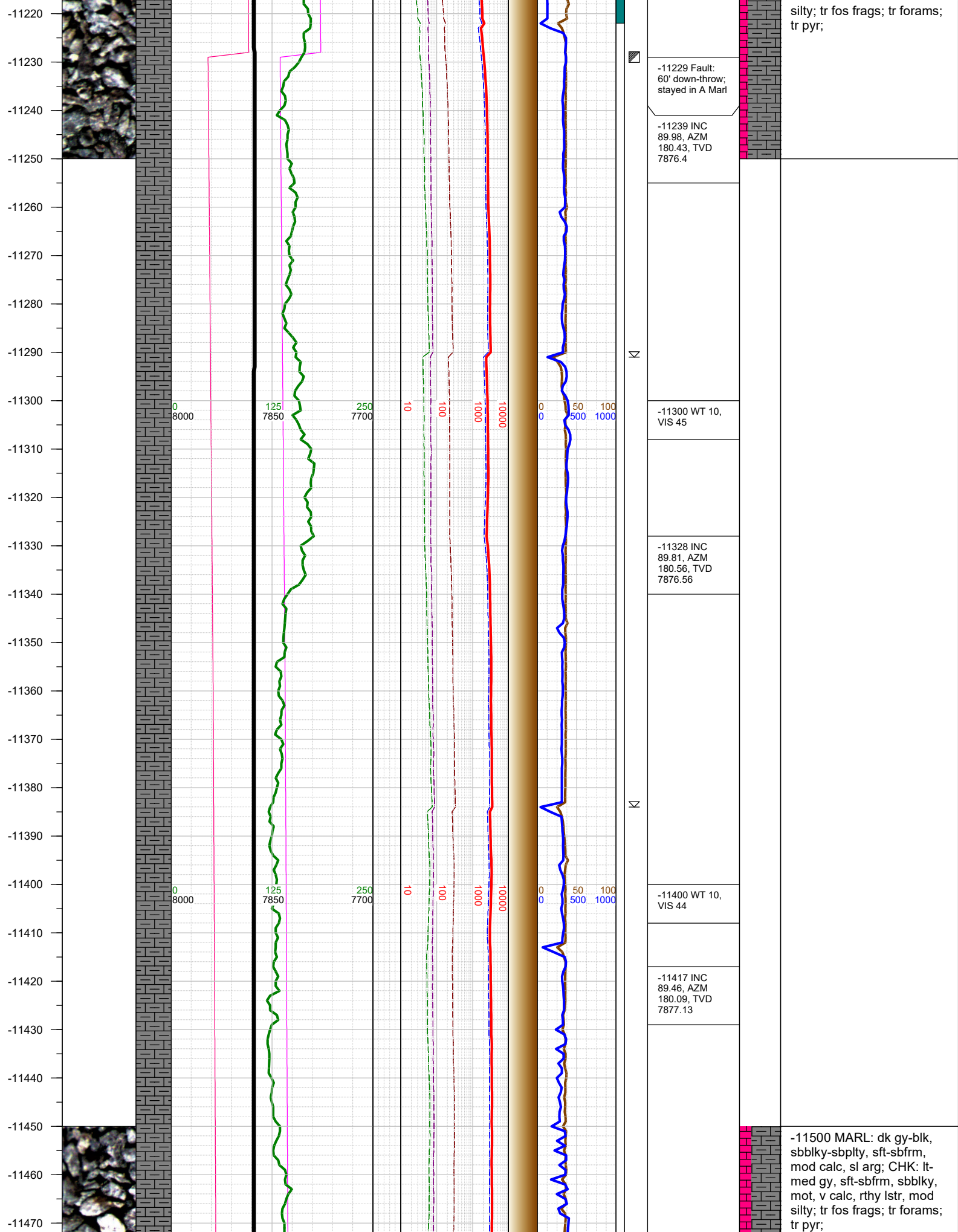
-10170 INC
91.02, AZM
179.91, TVD
7884.89

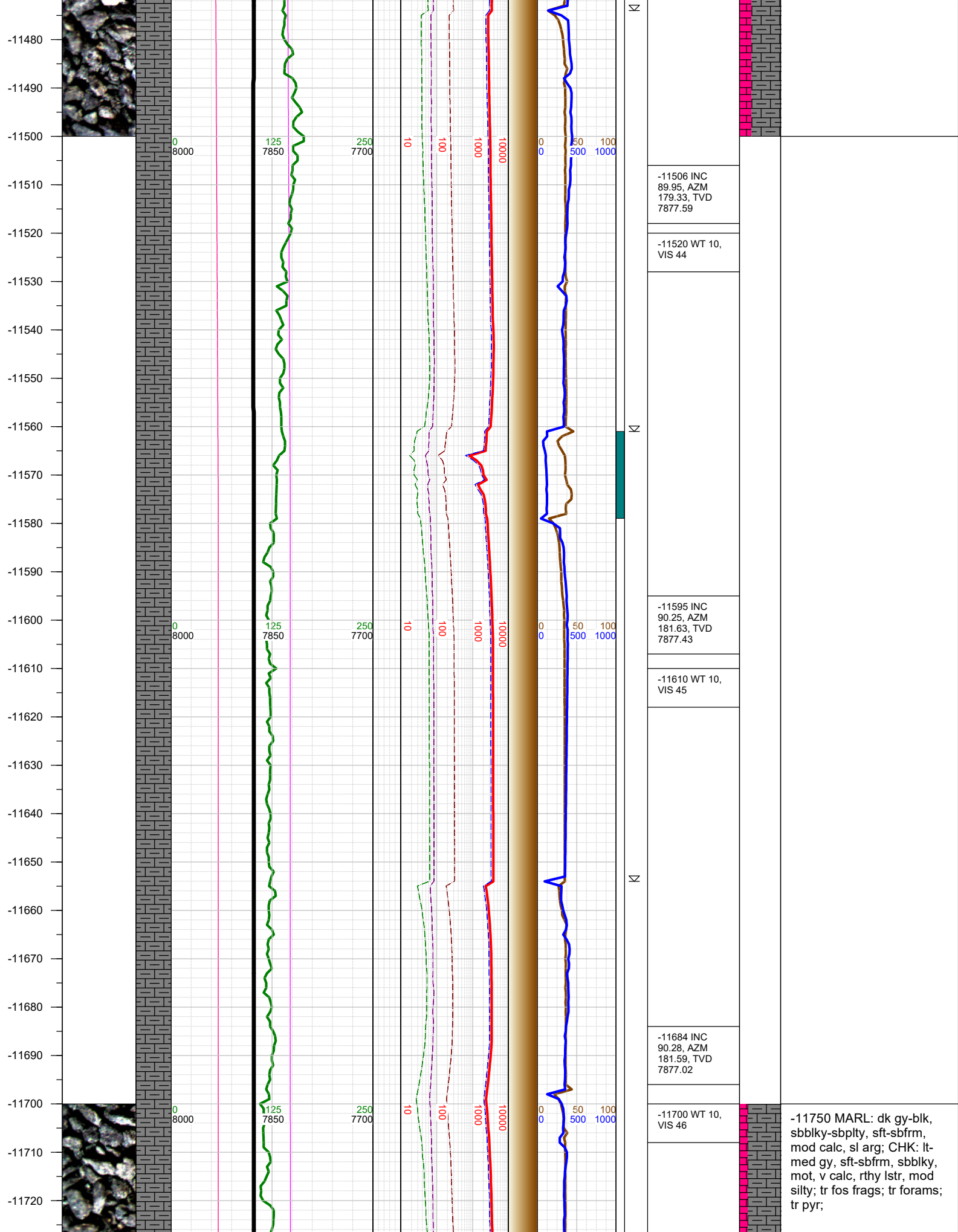


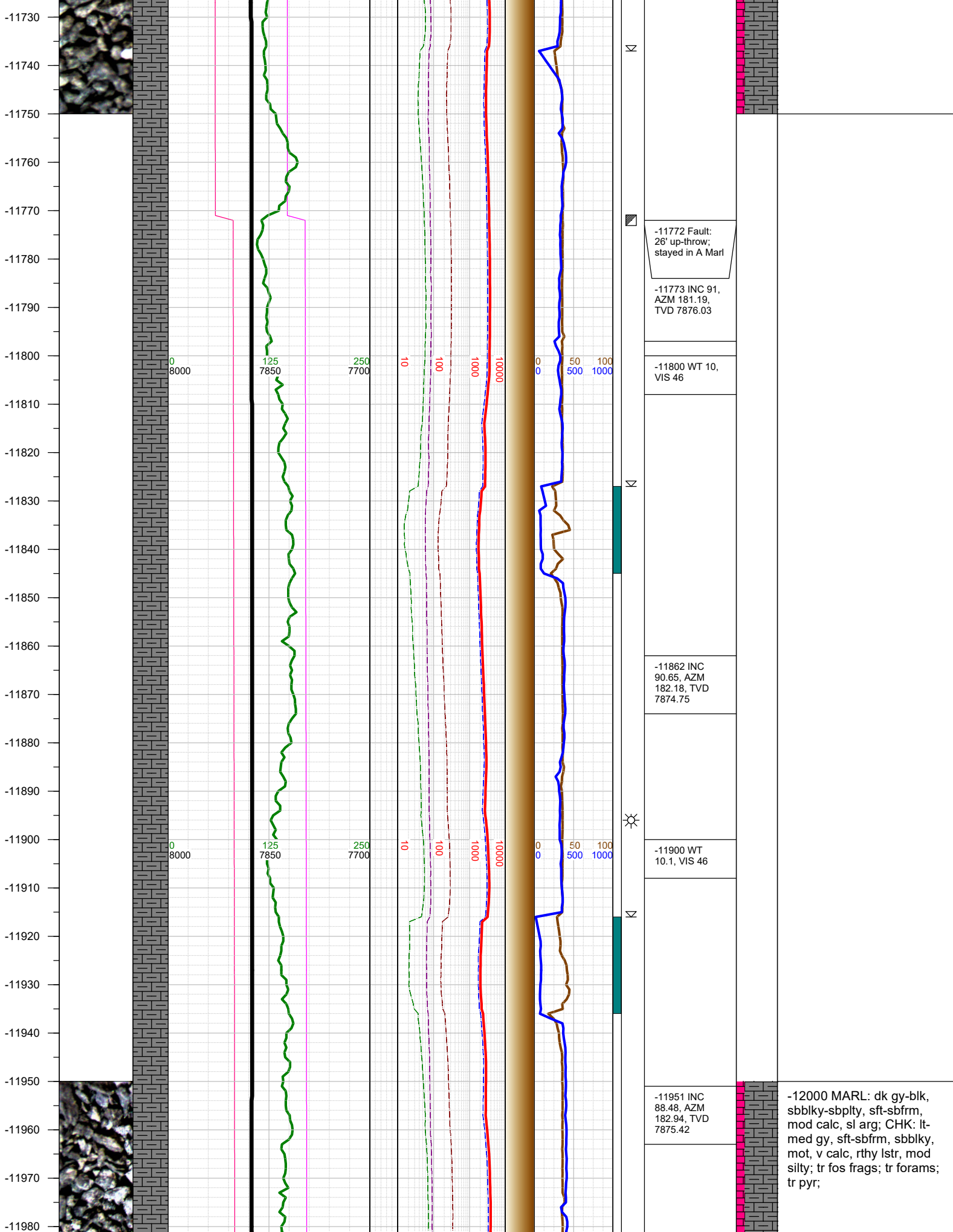


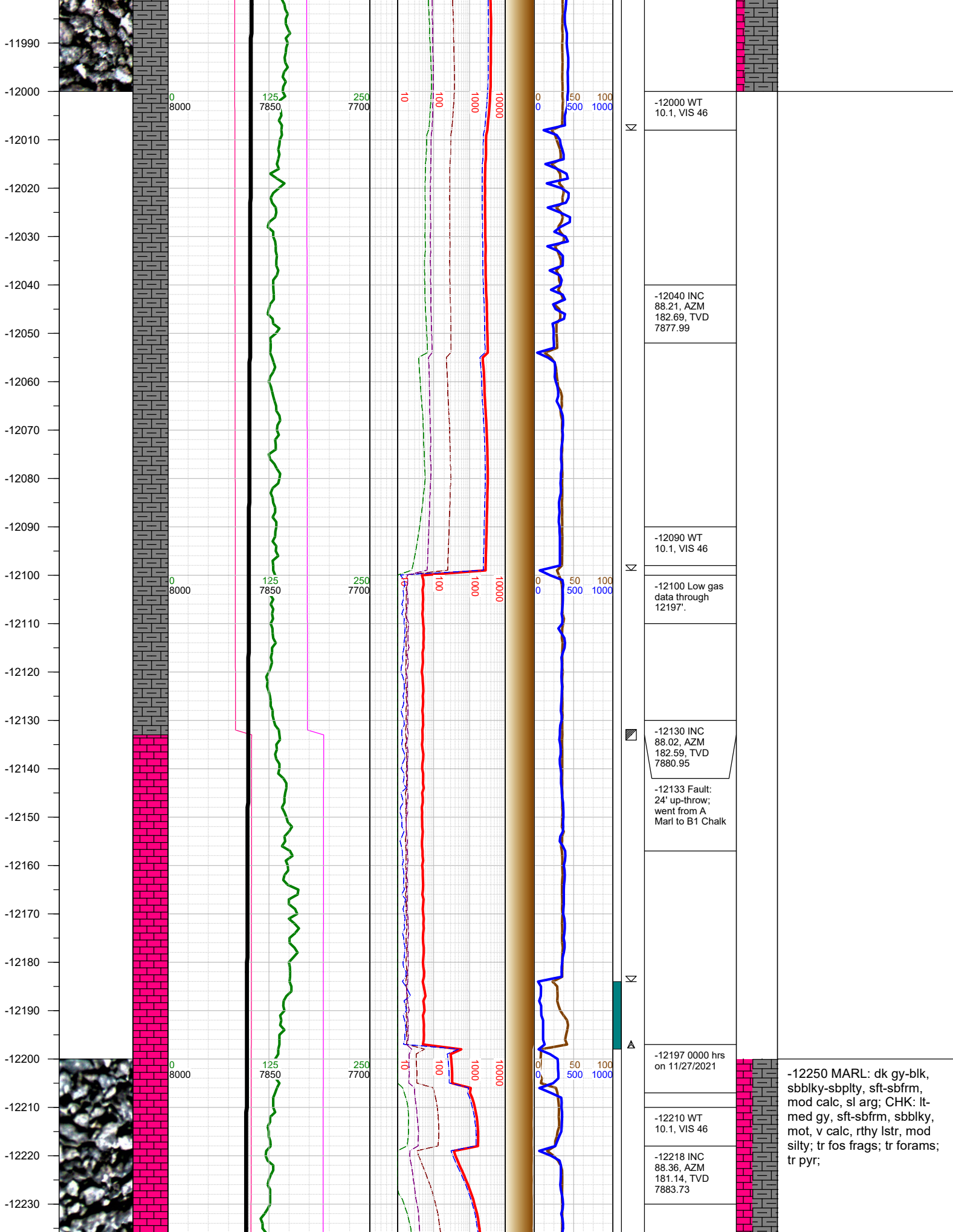




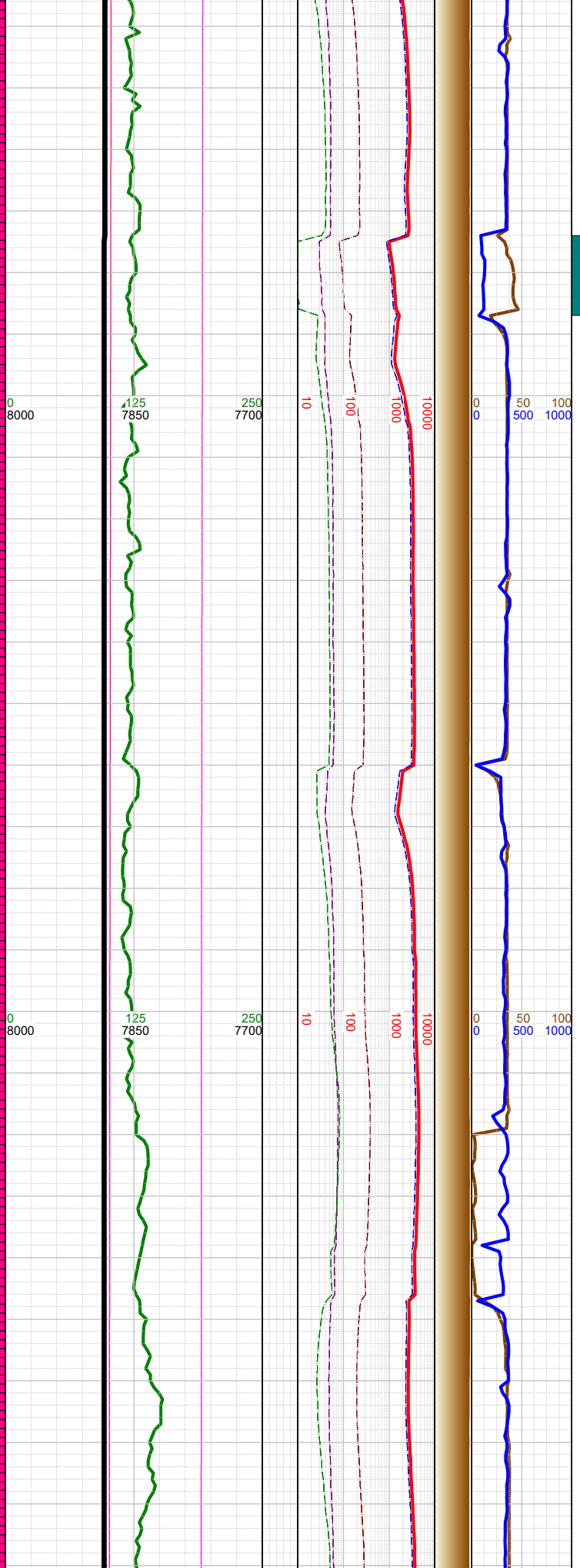
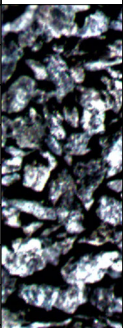
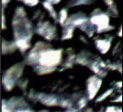








-12240
-12250
-12260
-12270
-12280
-12290
-12300
-12310
-12320
-12330
-12340
-12350
-12360
-12370
-12380
-12390
-12400
-12410
-12420
-12430
-12440
-12450
-12460
-12470
-12480
-12490

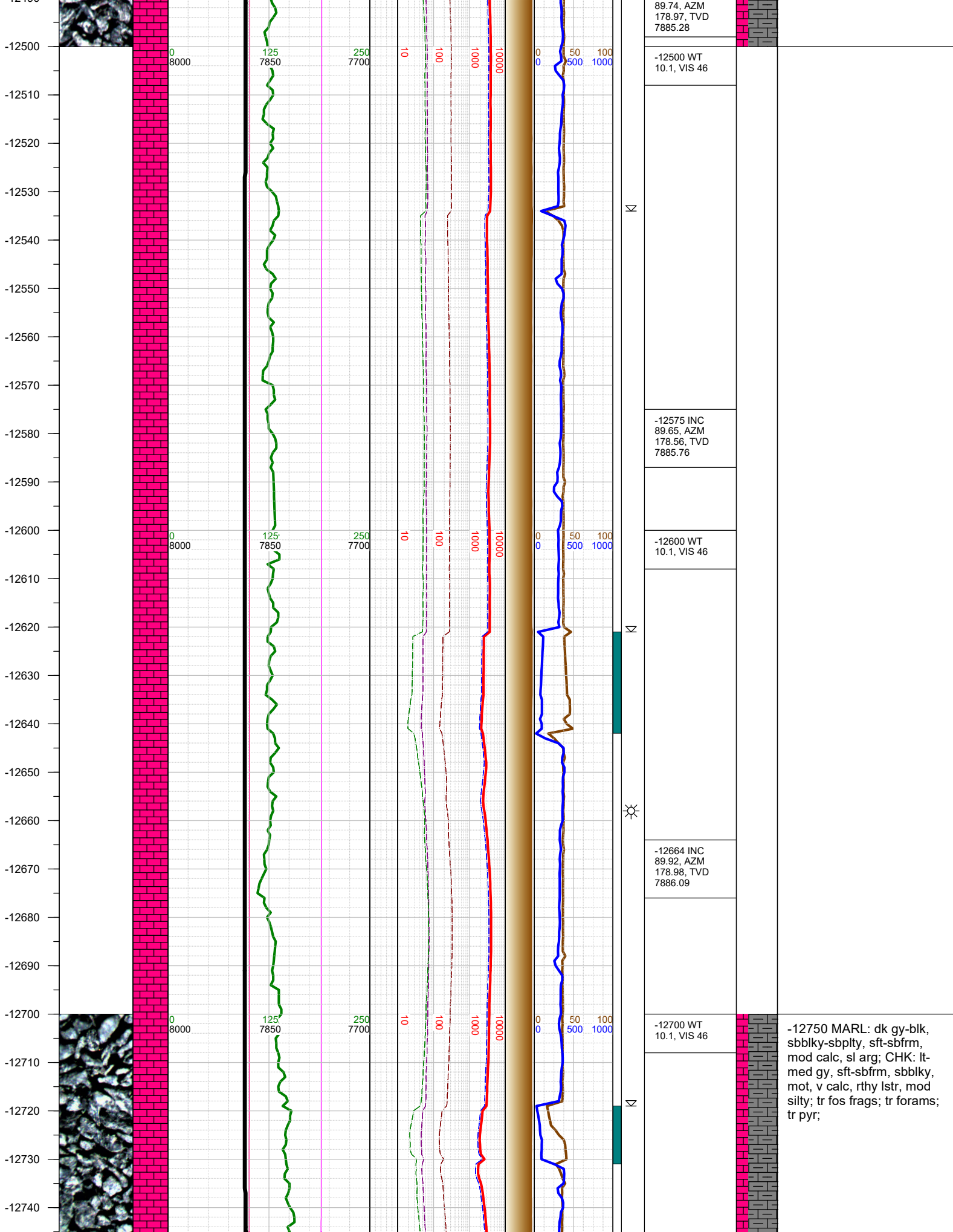


N
N
N

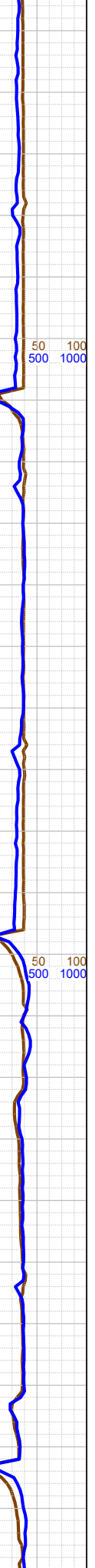
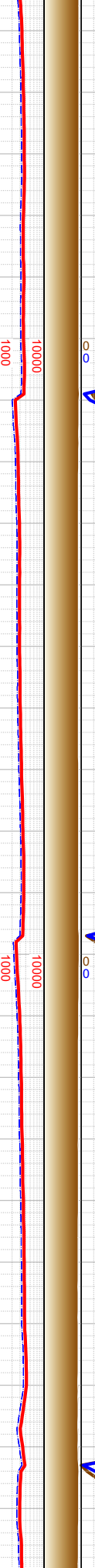
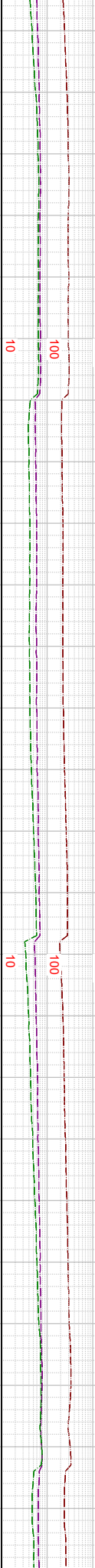
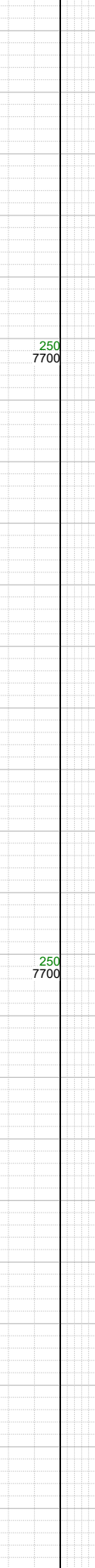
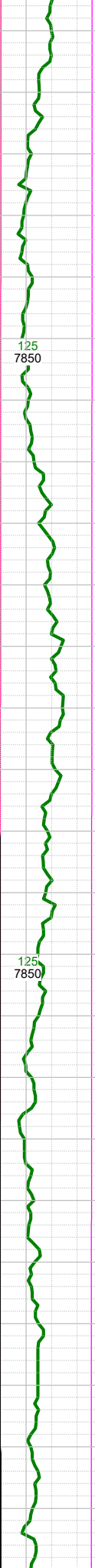
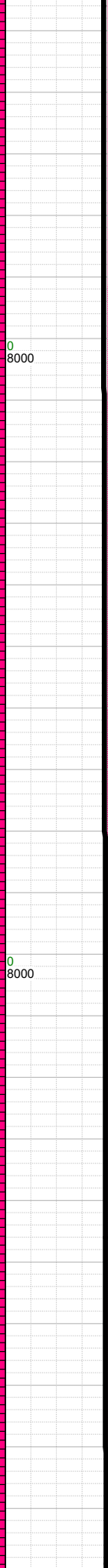
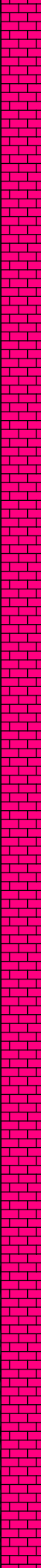
-12300 WT 10.1, VIS 46
-12308 INC 90.08, AZM 180, TVD 7884.96
-12397 INC 89.88, AZM 179.35, TVD 7884.99
-12410 WT 10.1, VIS 46
-12486 INC



-12500 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy, sft-sbfrm, sbbly,
mot, v calc, rthy lstr, mod
silty; tr fos frags; tr forams;
tr pyr;



-12750
-12760
-12770
-12780
-12790
-12800
-12810
-12820
-12830
-12840
-12850
-12860
-12870
-12880
-12890
-12900
-12910
-12920
-12930
-12940
-12950
-12960
-12970
-12980
-12990
13000



8000
7850
7700
10
100
1000
10000
0
0
50
500
100
1000

8000
7850
7700
10
100
1000
10000
0
0
50
500
100
1000

-12753 INC
91.02, AZM
178.8, TVD
7885.36

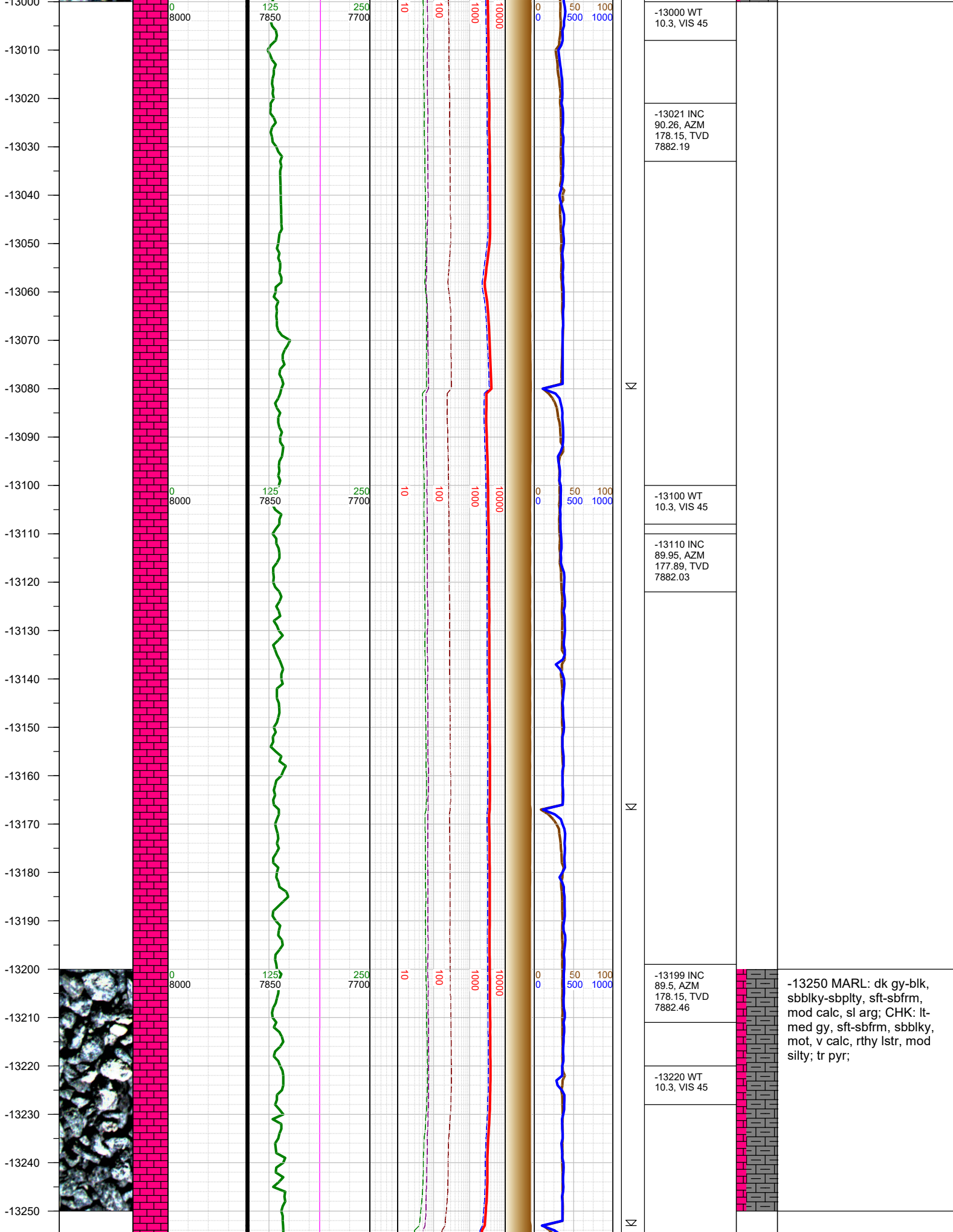
-12800 WT
10.3, VIS 45

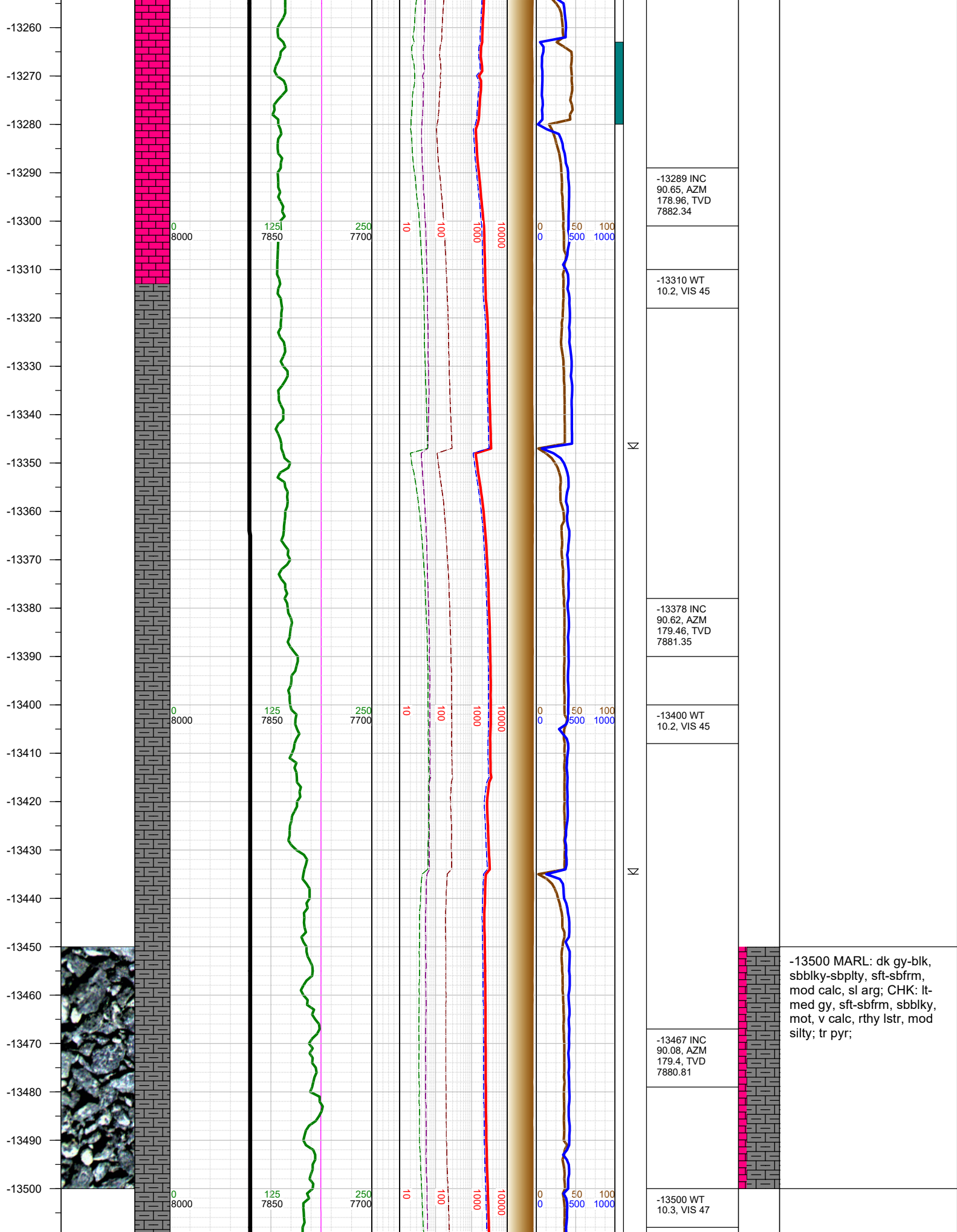
-12843 INC
90.77, AZM
178.71, TVD
7883.96

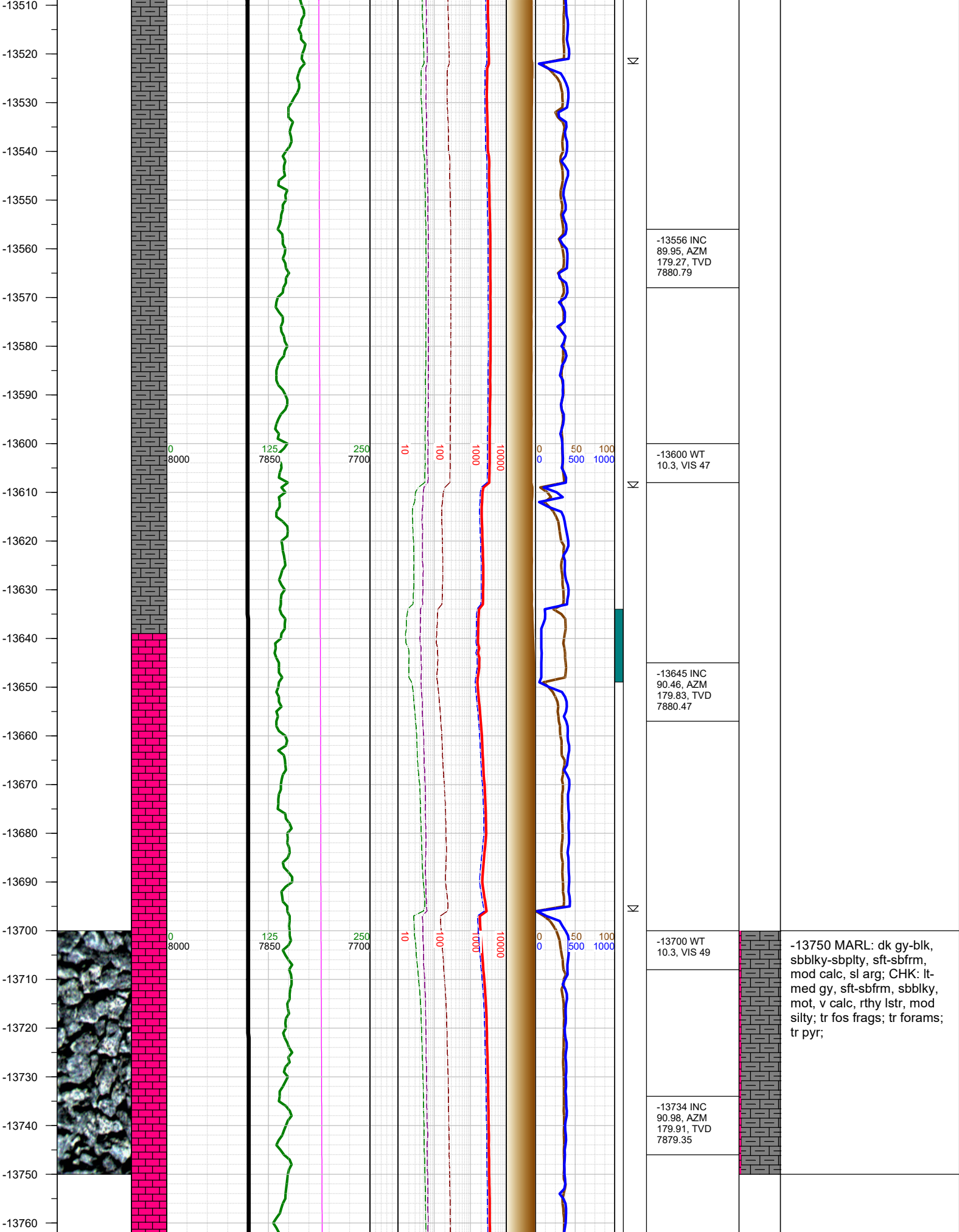
-12900 WT
10.3, VIS 45

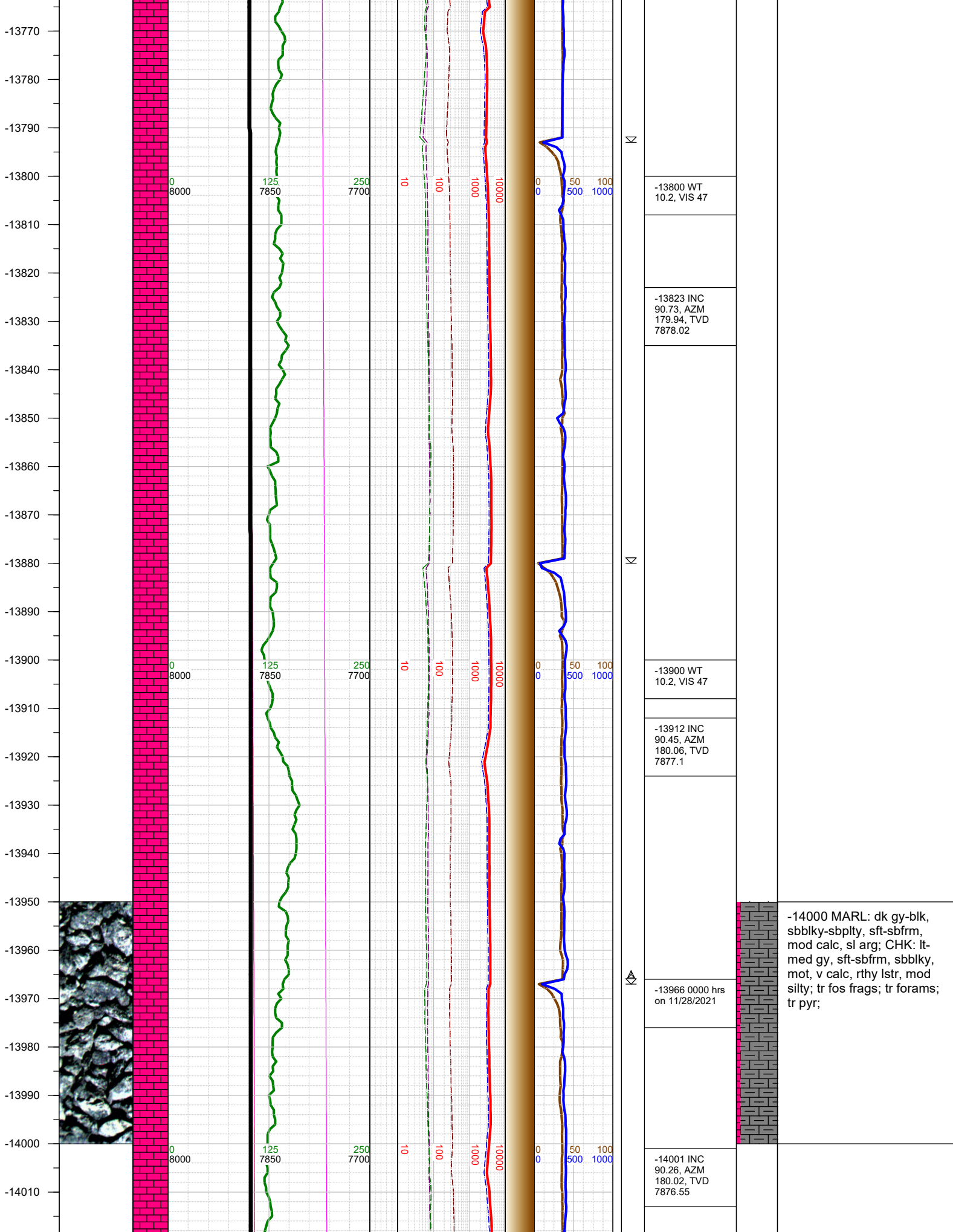
-12932 INC
90.62, AZM
178.35, TVD
7882.88

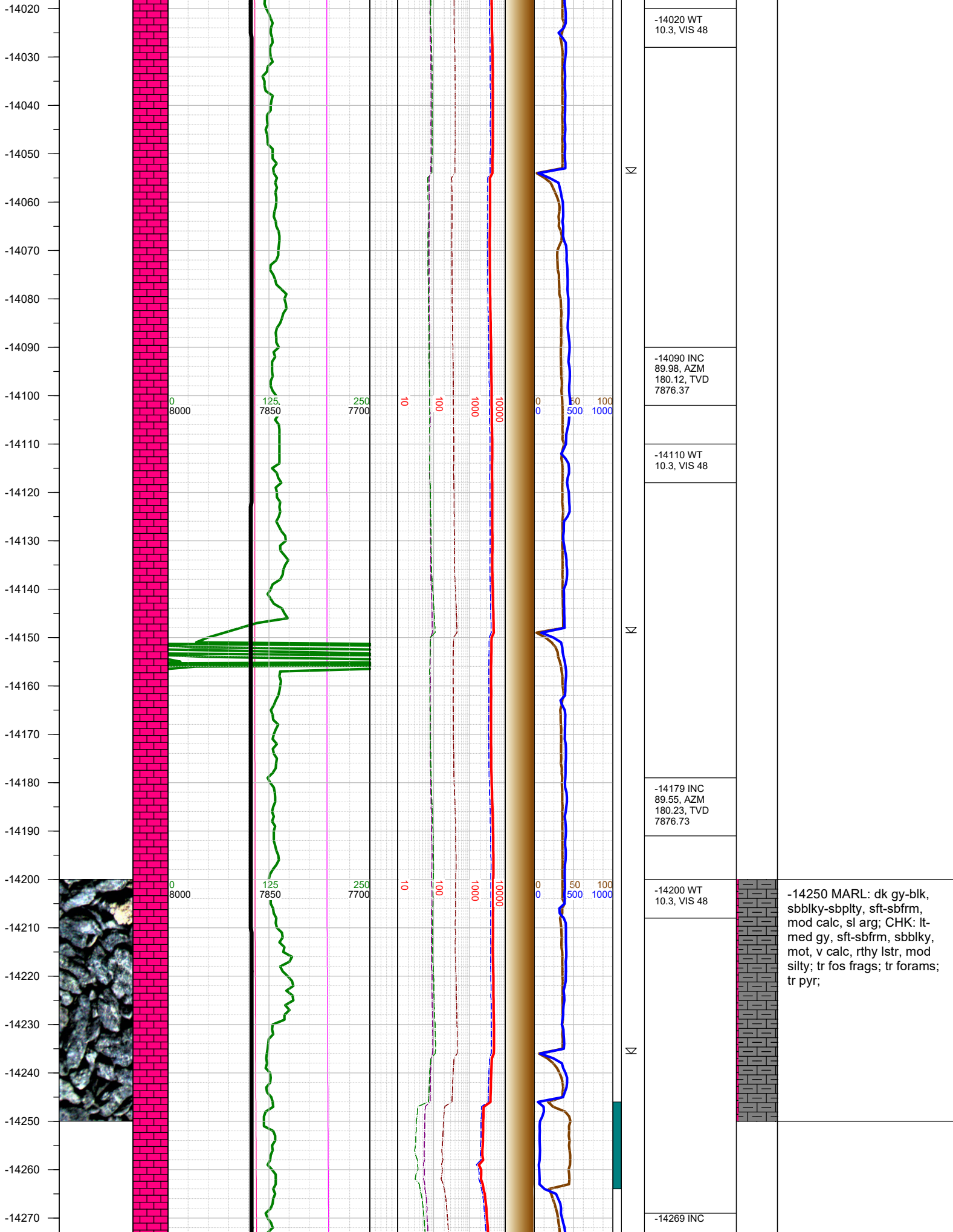
-13000 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy, sft-sbfrm, sbbly,
mot, v calc, rthy lstr, mod
silty; tr pyr;











-14020 WT
10.3, VIS 48

-14090 INC
89.98, AZM
180.12, TVD
7876.37

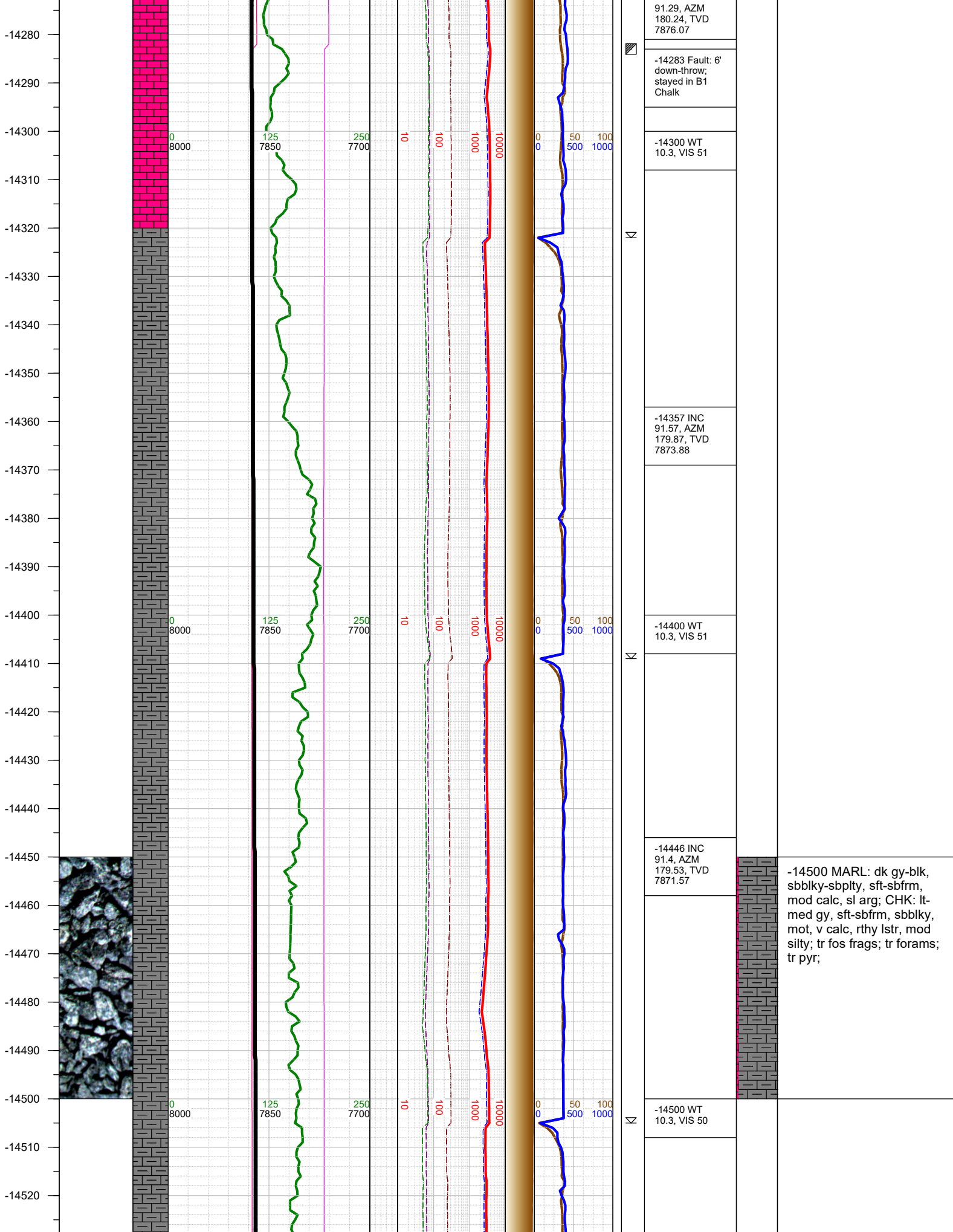
-14110 WT
10.3, VIS 48

-14179 INC
89.55, AZM
180.23, TVD
7876.73

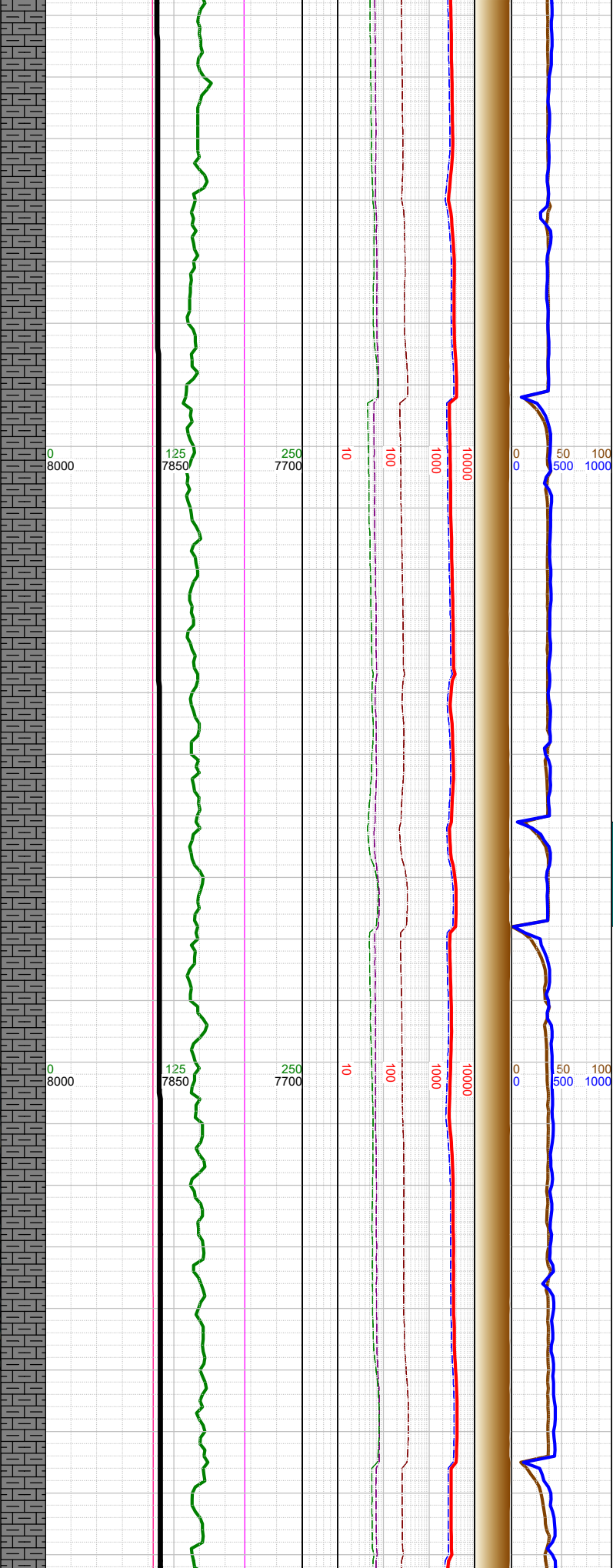
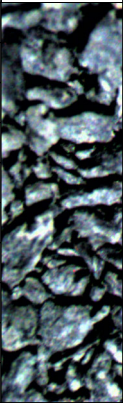
-14200 WT
10.3, VIS 48

-14250 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy, sft-sbfrm, sbbly,
mot, v calc, rthy lstr, mod
silty; tr fos frags; tr forams;
tr pyr;

-14269 INC

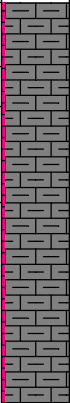


-14530
-14540
-14550
-14560
-14570
-14580
-14590
-14600
-14610
-14620
-14630
-14640
-14650
-14660
-14670
-14680
-14690
-14700
-14710
-14720
-14730
-14740
-14750
-14760
-14770
-14780

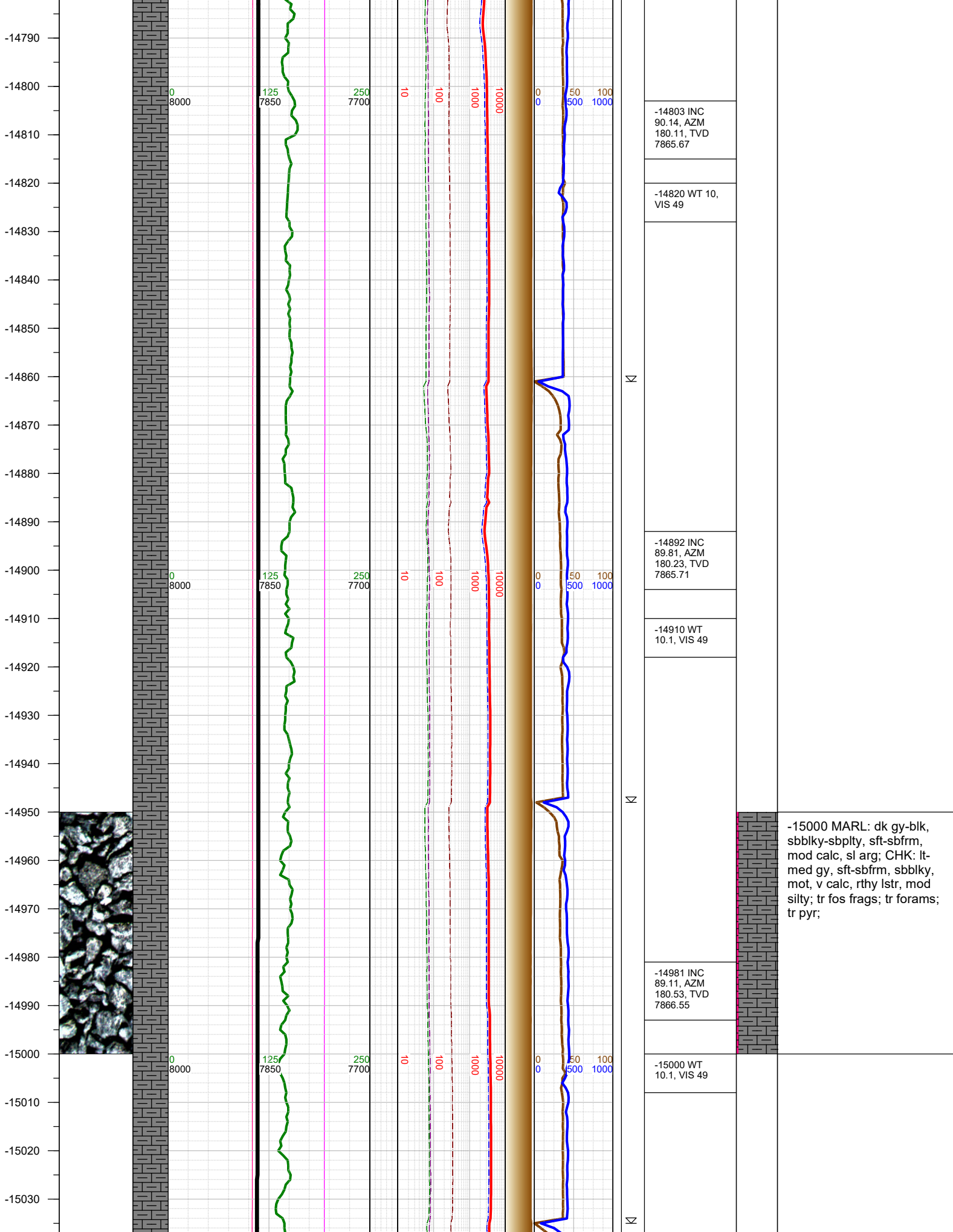


14
14
14

-14535 INC 91.3, AZM 179.24, TVD 7869.47		
-14600 WT 10.3, VIS 50		
-14625 INC 90.95, AZM 179.12, TVD 7867.7		
-14700 WT 10, VIS 49		
-14713 INC 90.77, AZM 178.98, TVD 7866.38		



-14750 MARL: dk gy-blk,
sbbkly-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy, sft-sbfrm, sbbkly,
mot, v calc, rthy lstr, mod
silty; tr fos frags; tr forams;
tr pyr;



-15000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr, mod silty; tr fos frags; tr forams; tr pyr;

