

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **GP Cody 20E-15-2N**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 901

API #: 05-123-50285

LAT/LONG: 40.38999, -104.68251

SURFACE HOLE: NENE S20-T5N-R65W, 682' FNL, 1305' FEL

BOTTOM HOLE: S22-T5N-R65W, 327' FNL, 200' FWL

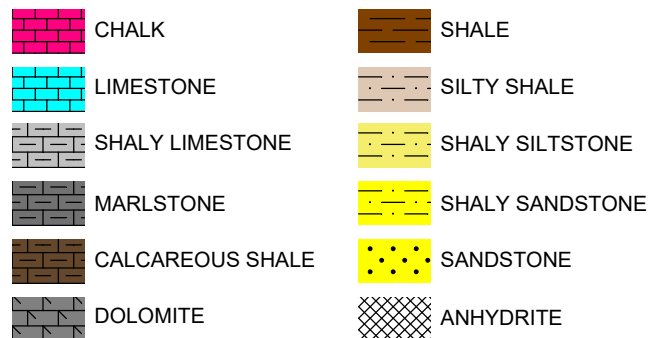


Earth Science Agency, LLC

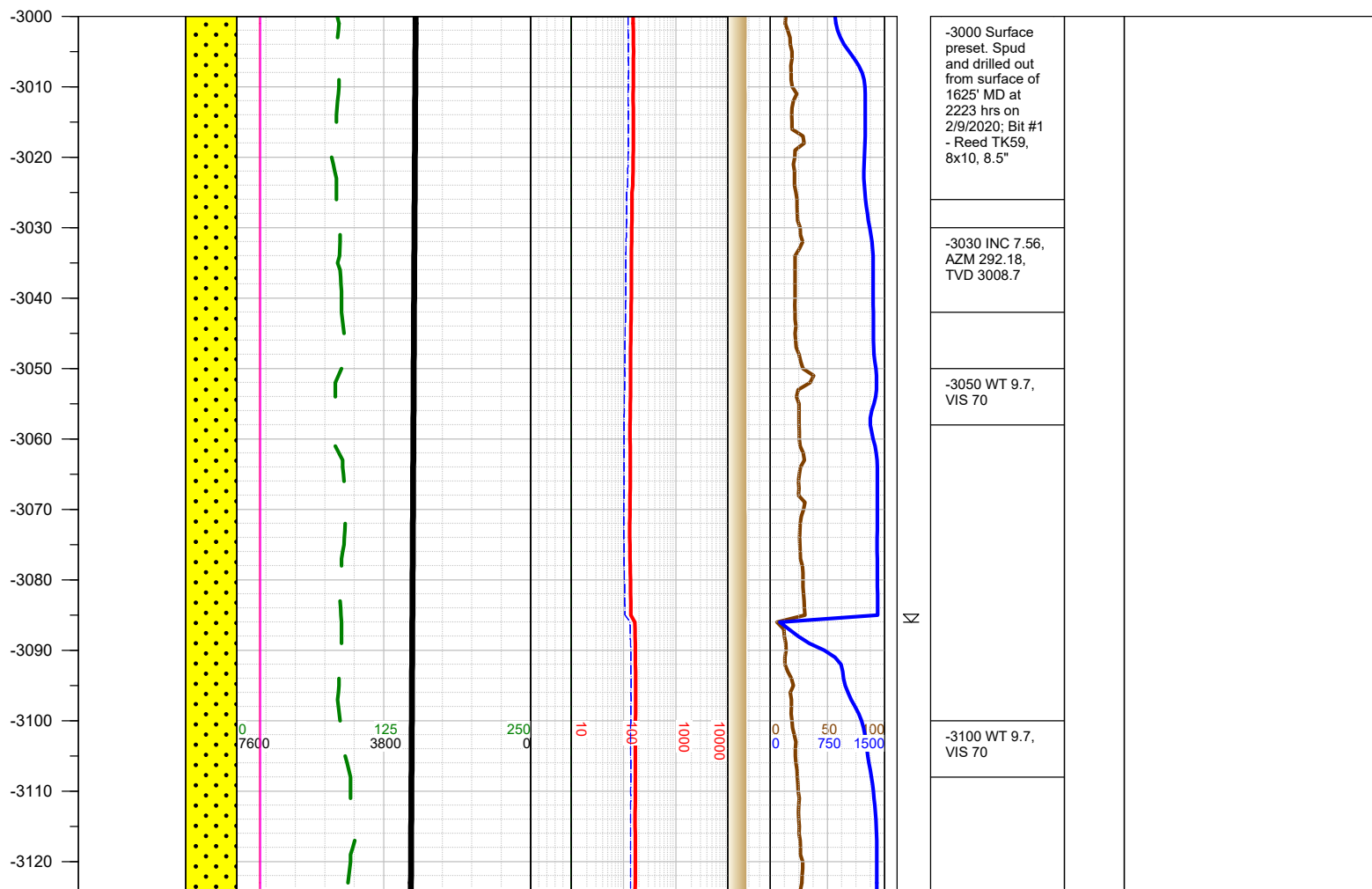
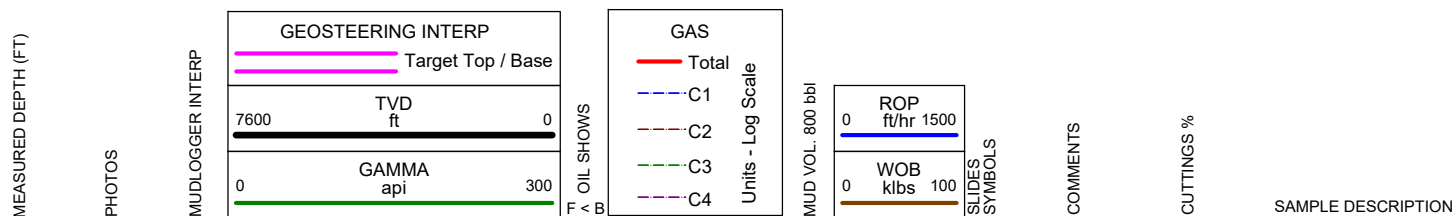
COUNTY: Broomfield
STATE: Colorado
GROUND ELEVATION: 4673'
KELLY BUSHING: 4702'
DRILLING FLUID: OBM
TVD VS. MD: 6954' / 14211'
SPUD DATE: February 9, 2020
TD DATE: February 11, 2020

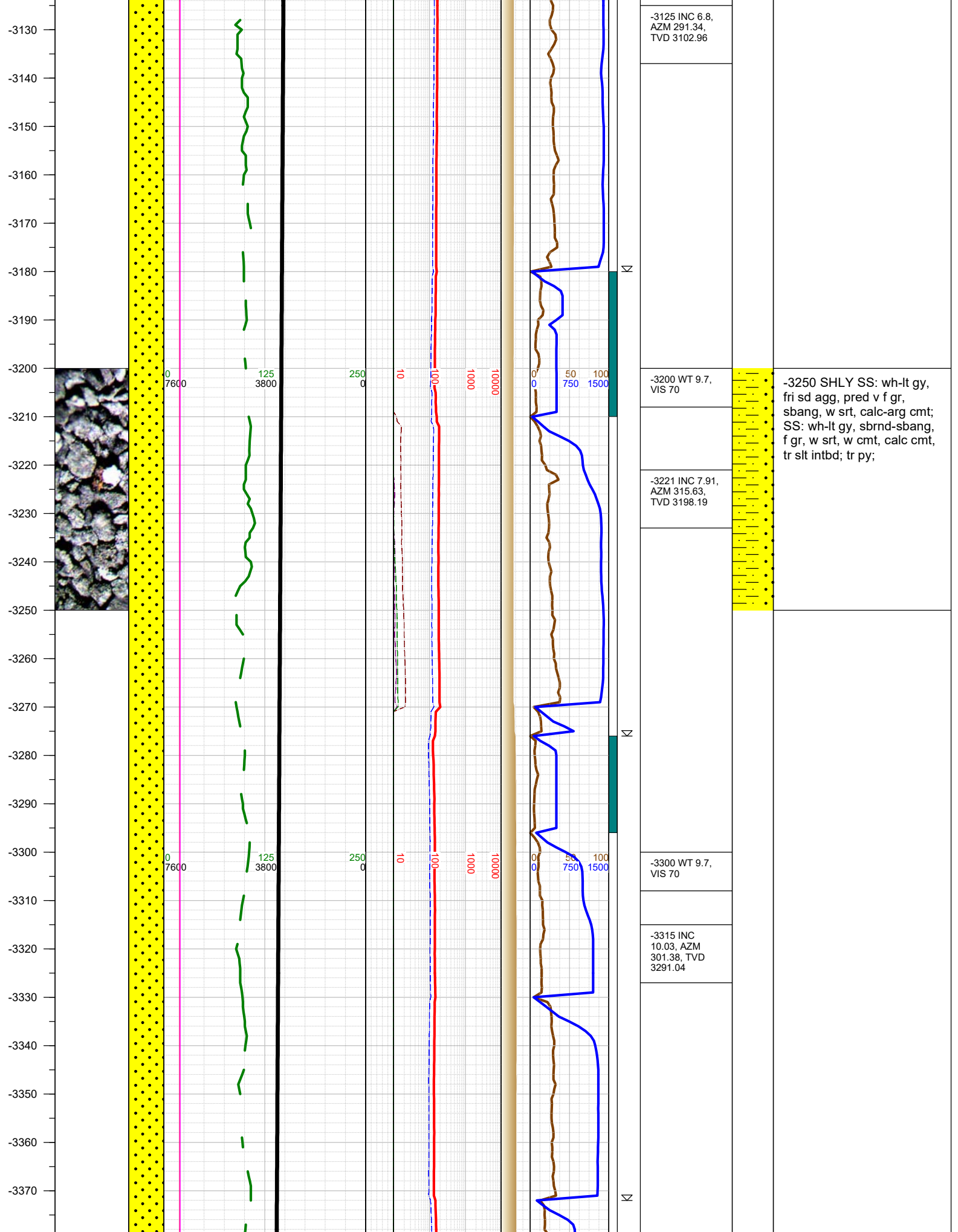
DEPTHS LOGGED: 3000' - 14211'
DATES LOGGED: February 9, 2020 - February 11, 2020
GEOLOGISTS: Kyle Newman, Dominic Pitre
SCALE: 5" = 100'

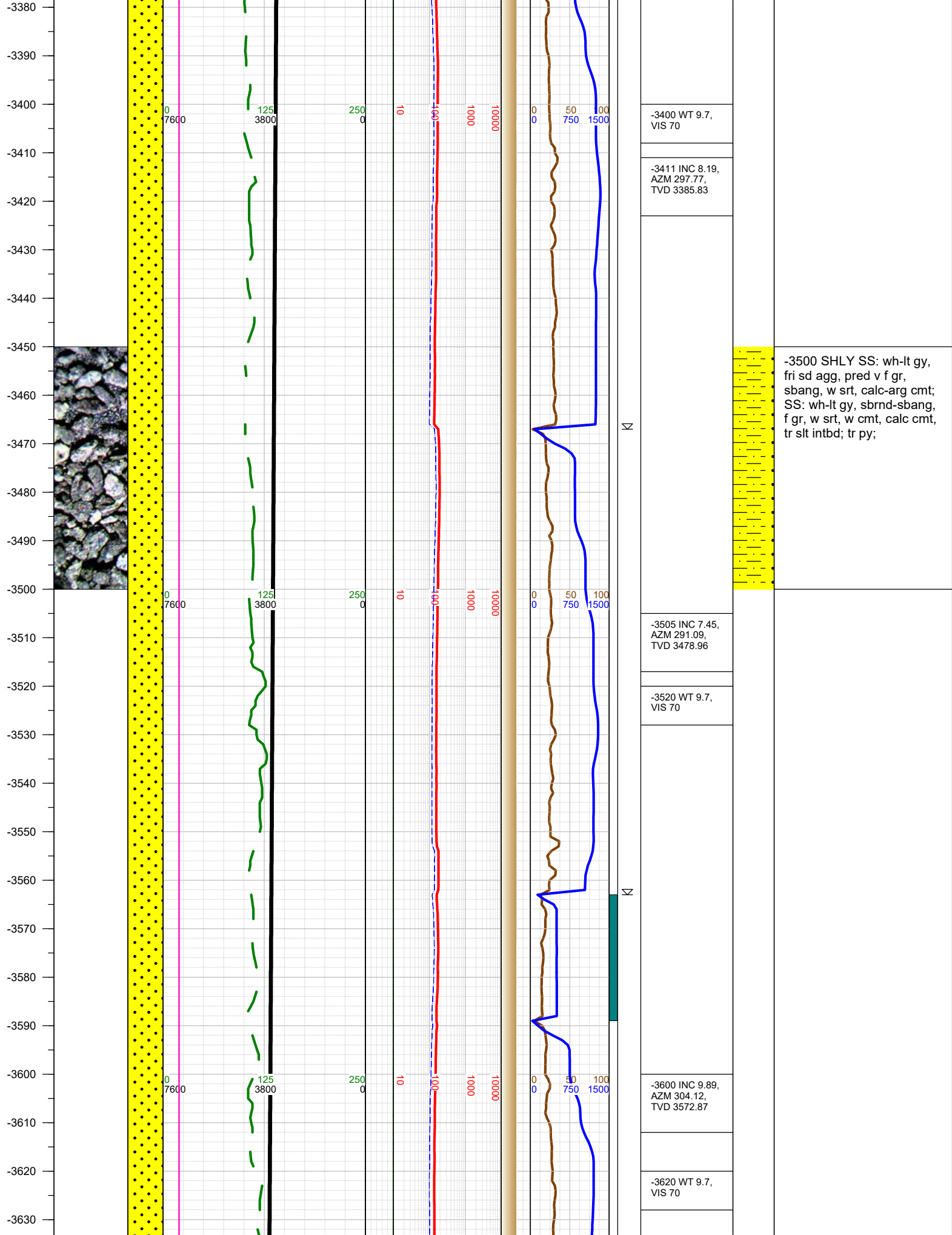
LEGEND

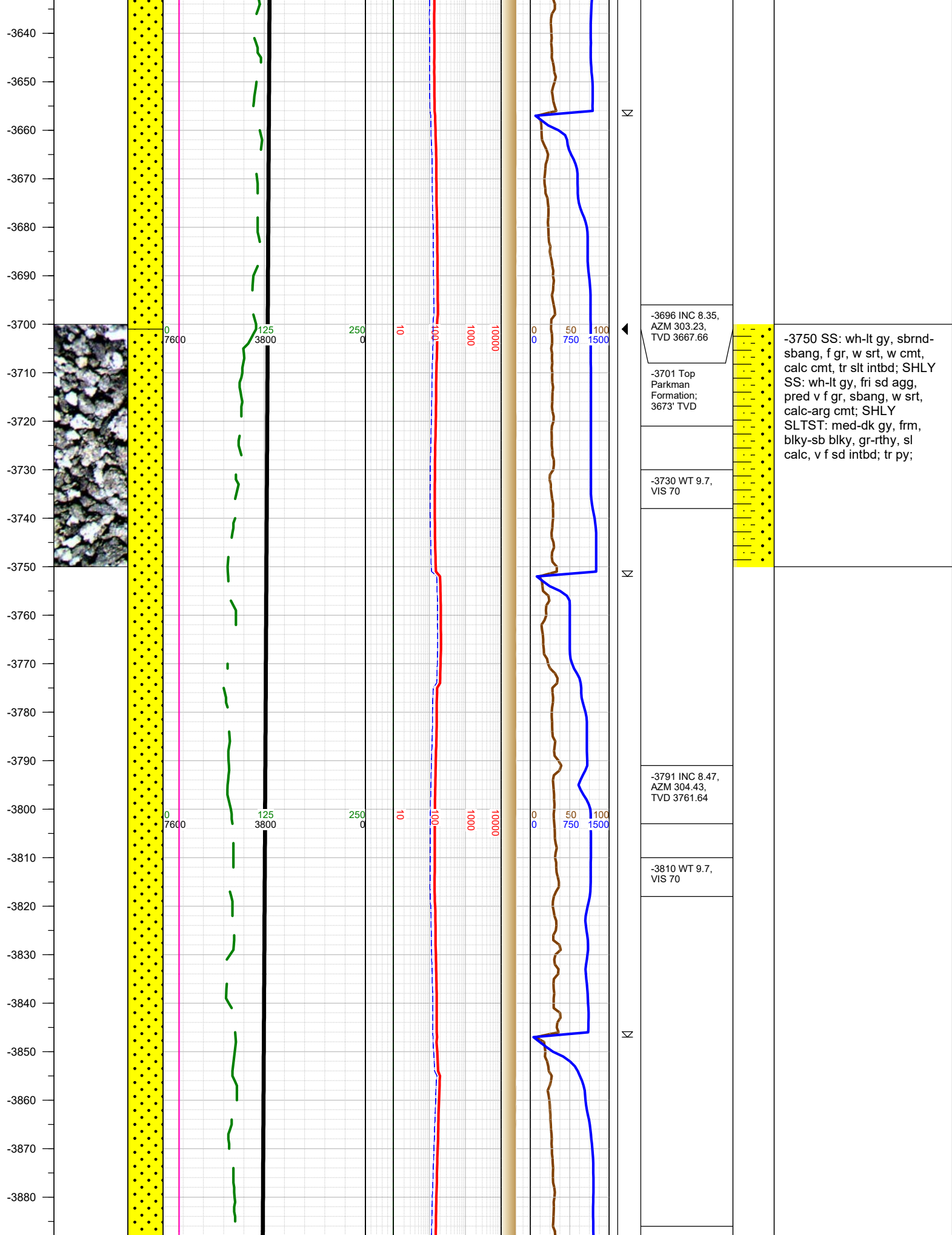


FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

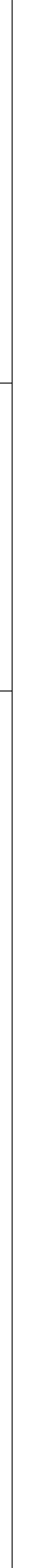
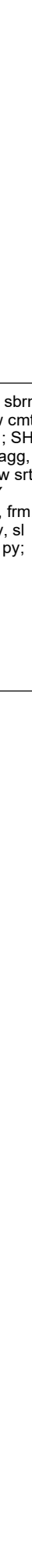
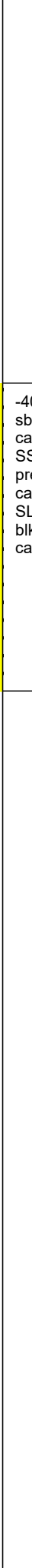
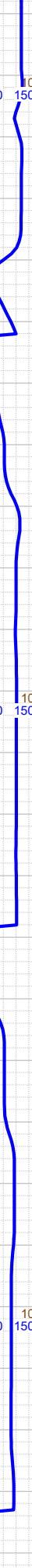
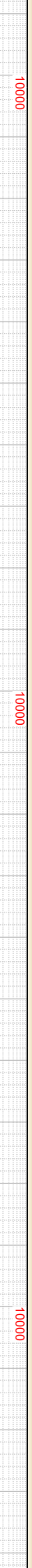
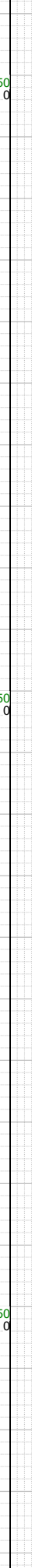
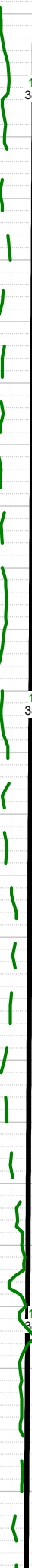
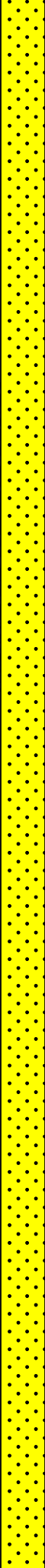
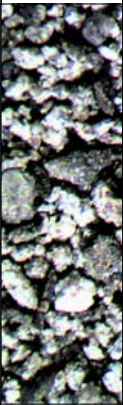








-3890
-3900
-3910
-3920
-3930
-3940
-3950
-3960
-3970
-3980
-3990
-4000
-4010
-4020
-4030
-4040
-4050
-4060
-4070
-4080
-4090
-4100
-4110
-4120
-4130
-4140



-3886 INC 8.43,
AZM 304.93,
TVD 3855.61

-3900 WT 9.7,
VIS 70

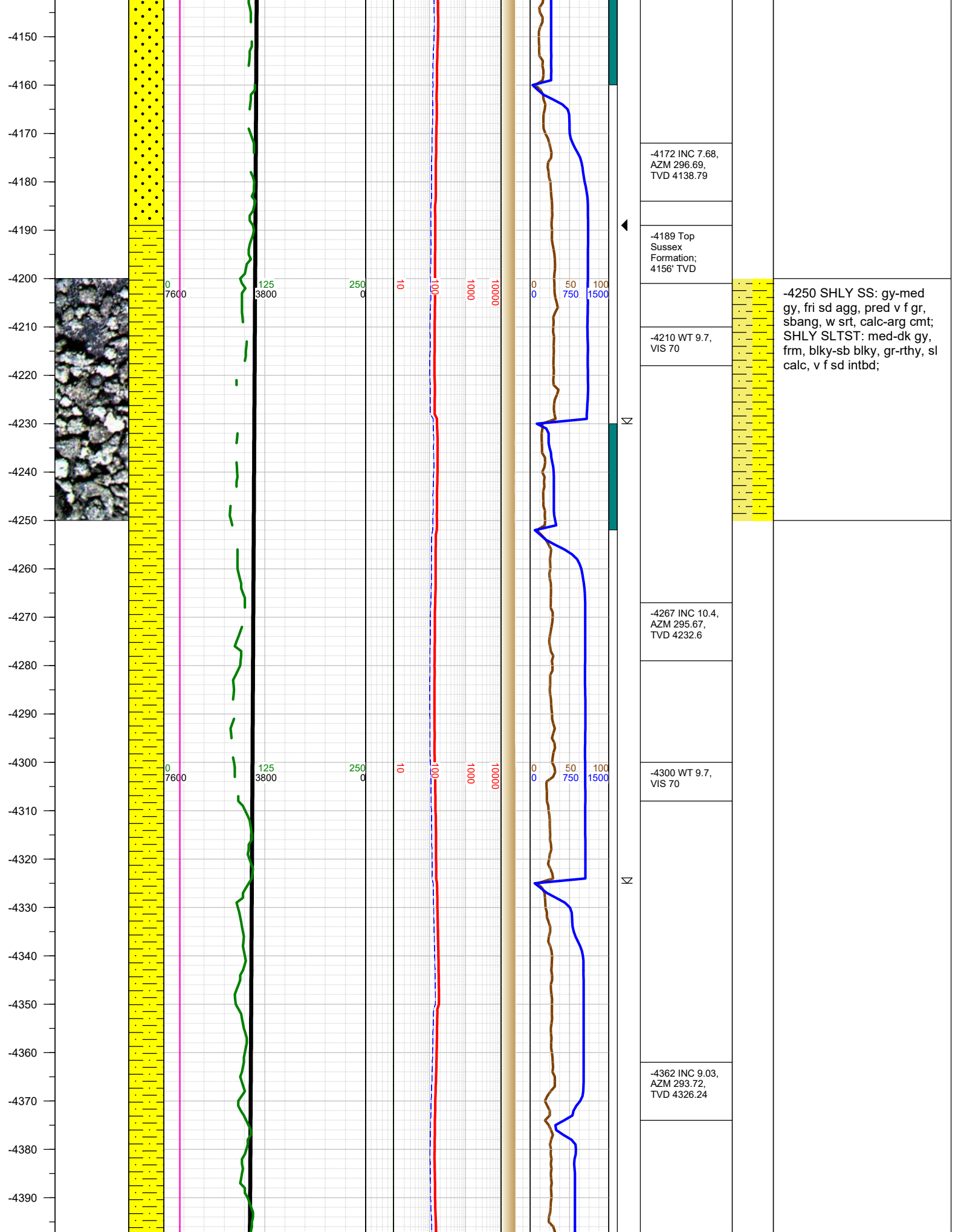
-3982 INC 8.27,
AZM 305.41,
TVD 3950.59

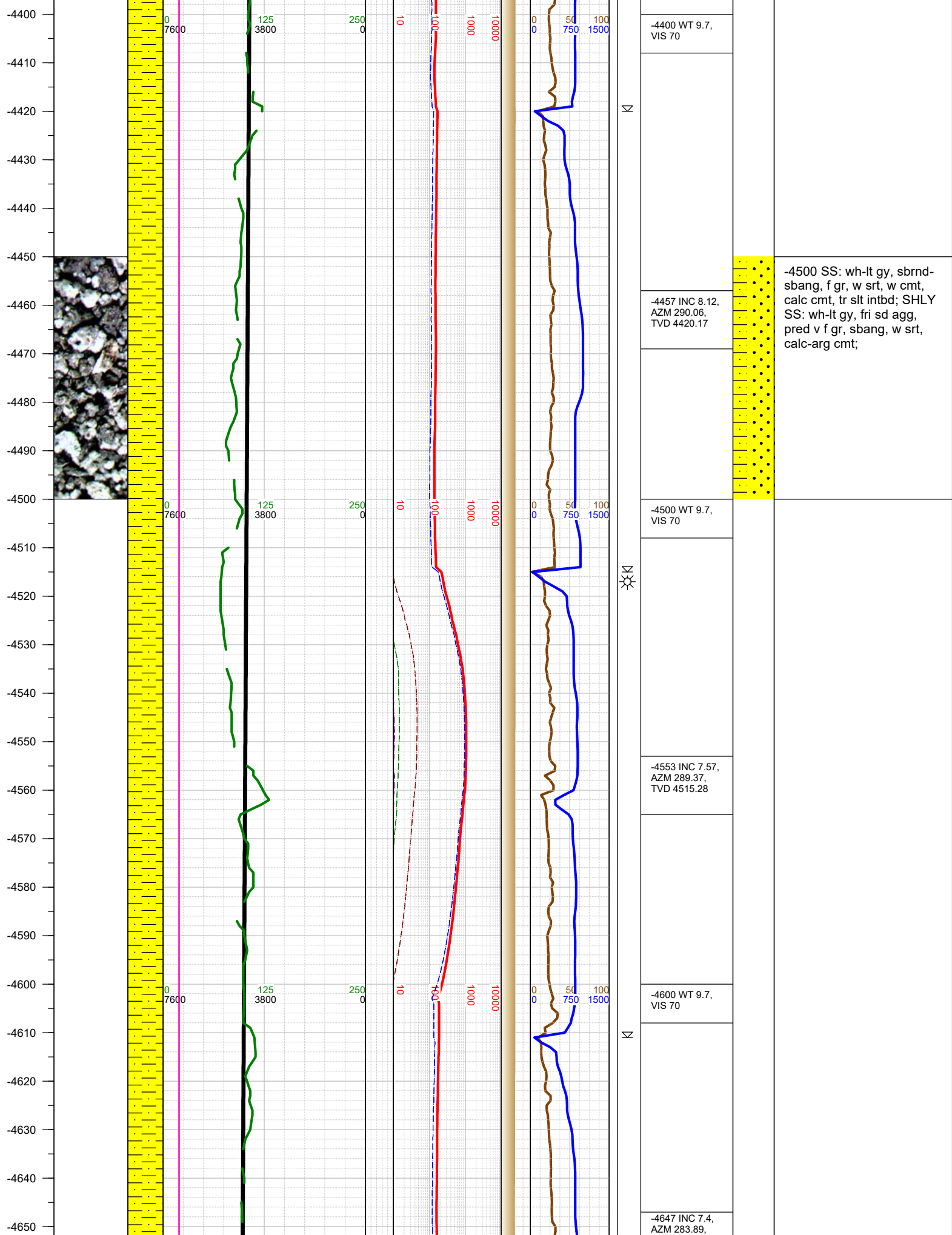
-4000 WT 9.7,
VIS 70

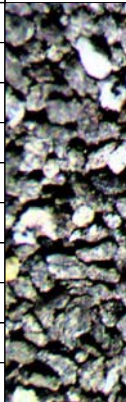
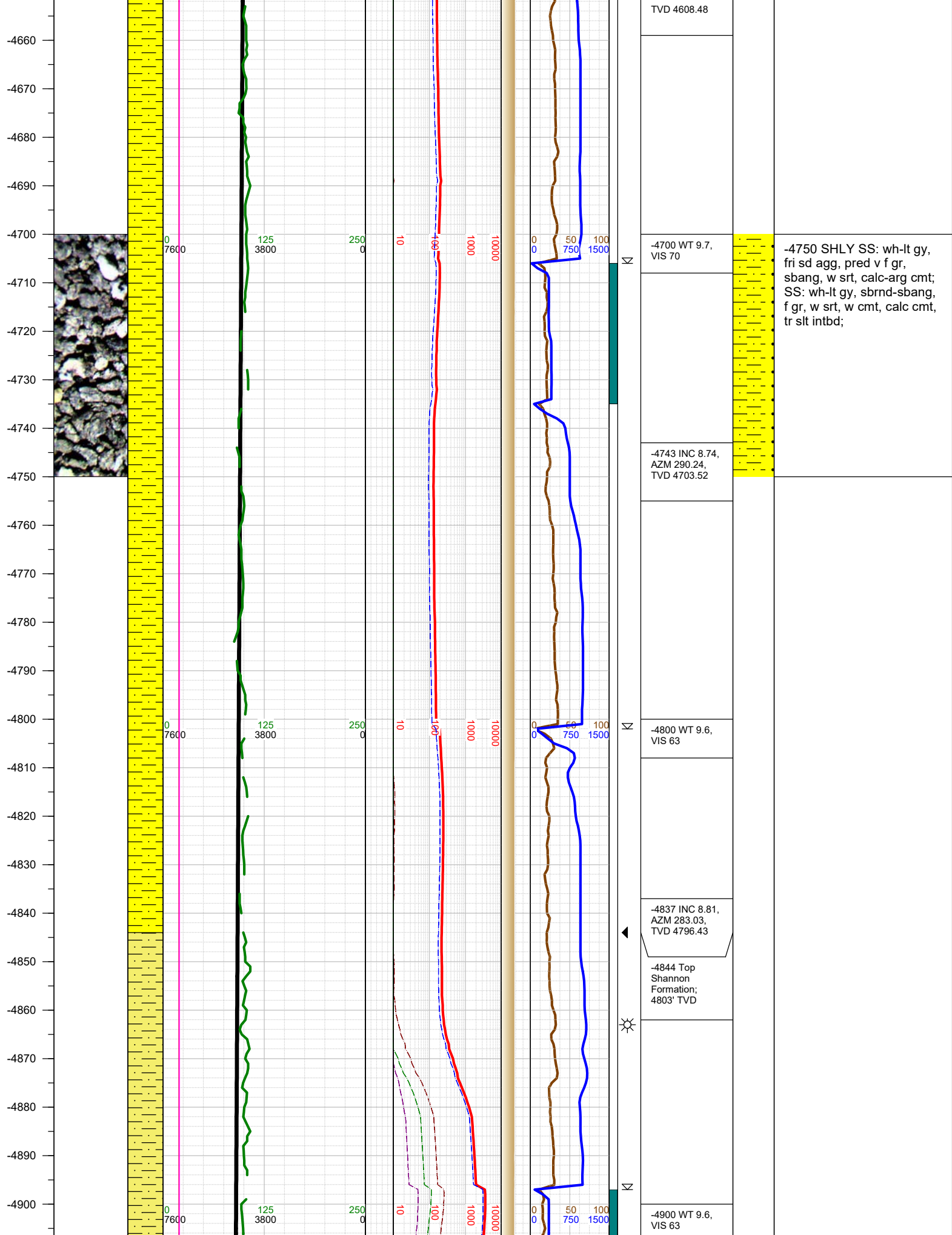
-4076 INC 7.82,
AZM 305.8,
TVD 4043.66

-4100 WT 9.7,
VIS 70

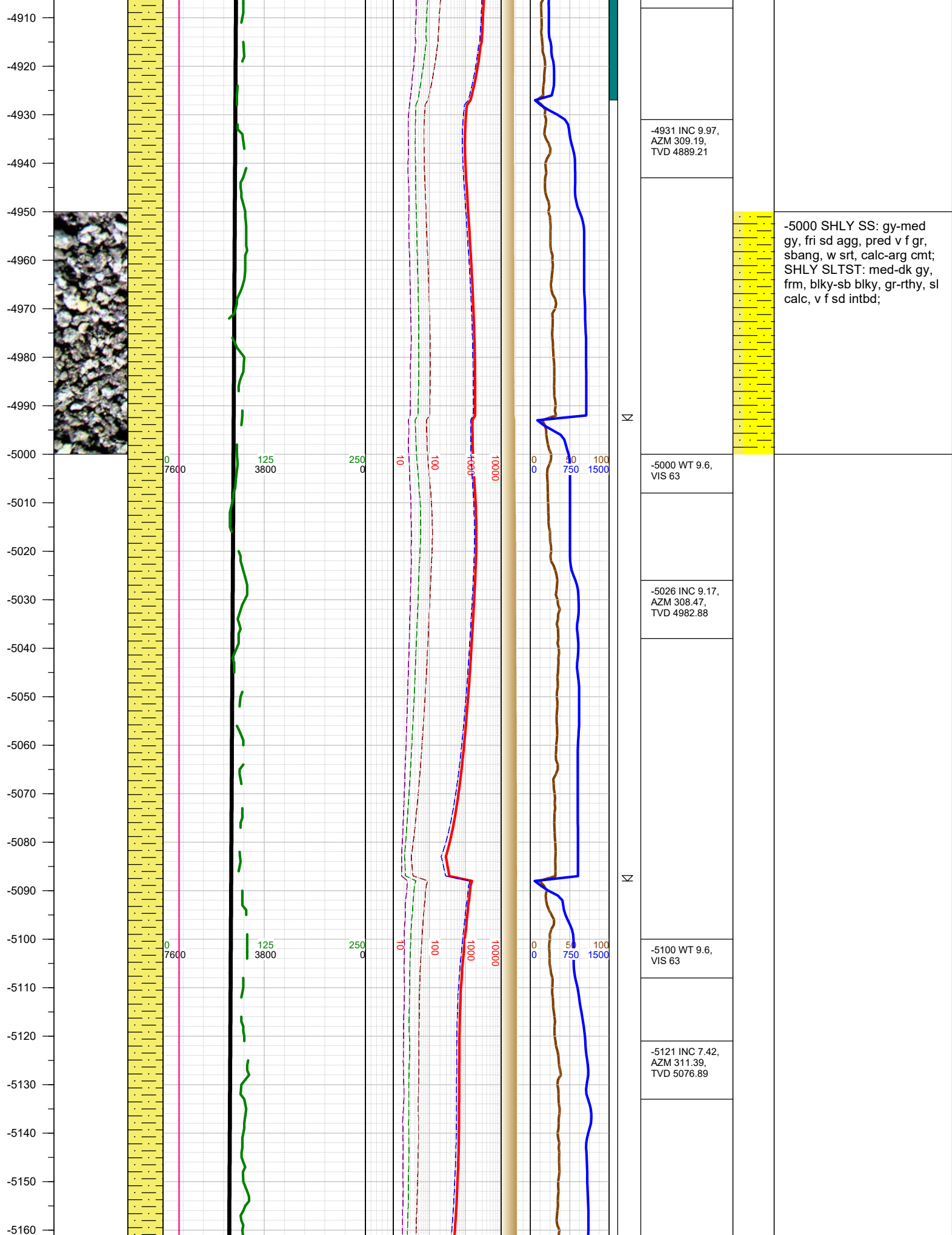
-4000 SS: wh-lt gy, sbrnd-
sbang, f gr, w srt, w cmt,
calc cmt, tr slt intbd; SHLY
SS: wh-lt gy, fri sd agg,
pred v f gr, sbang, w srt,
calc-arg cmt; SHLY
SLTST: med-dk gy, frm,
blky-sb blky, gr-rthy, sl
calc, v f sd intbd; tr py;

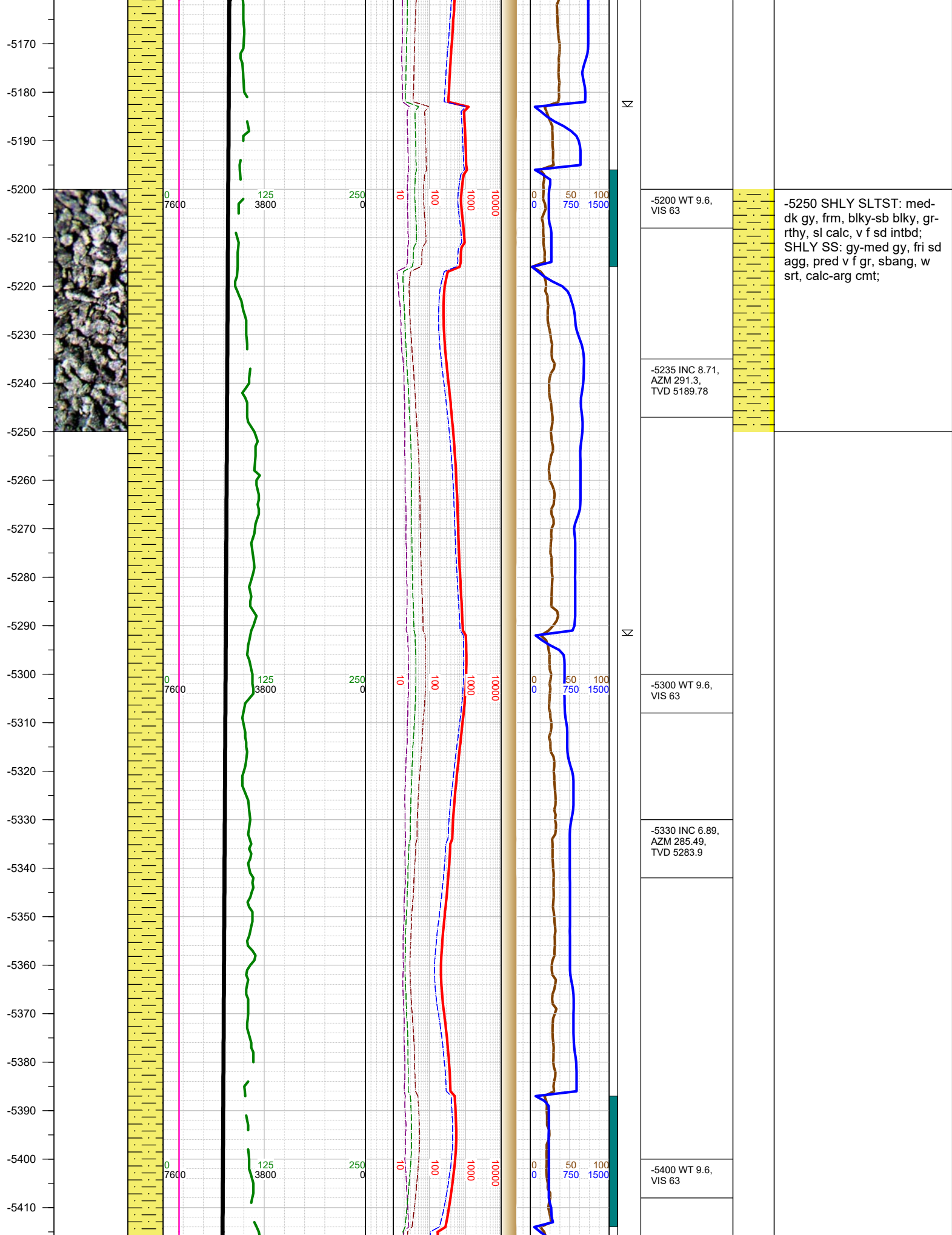


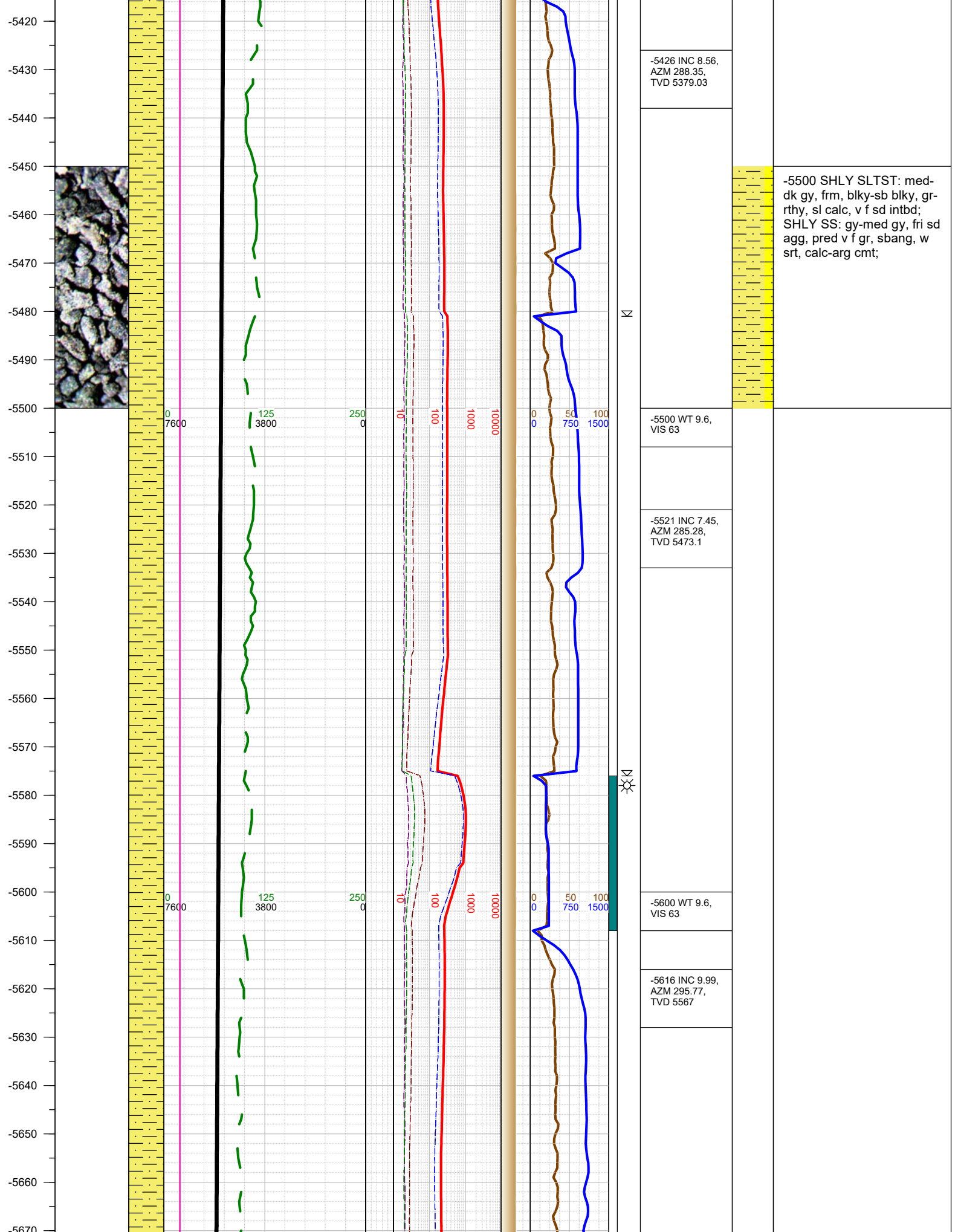


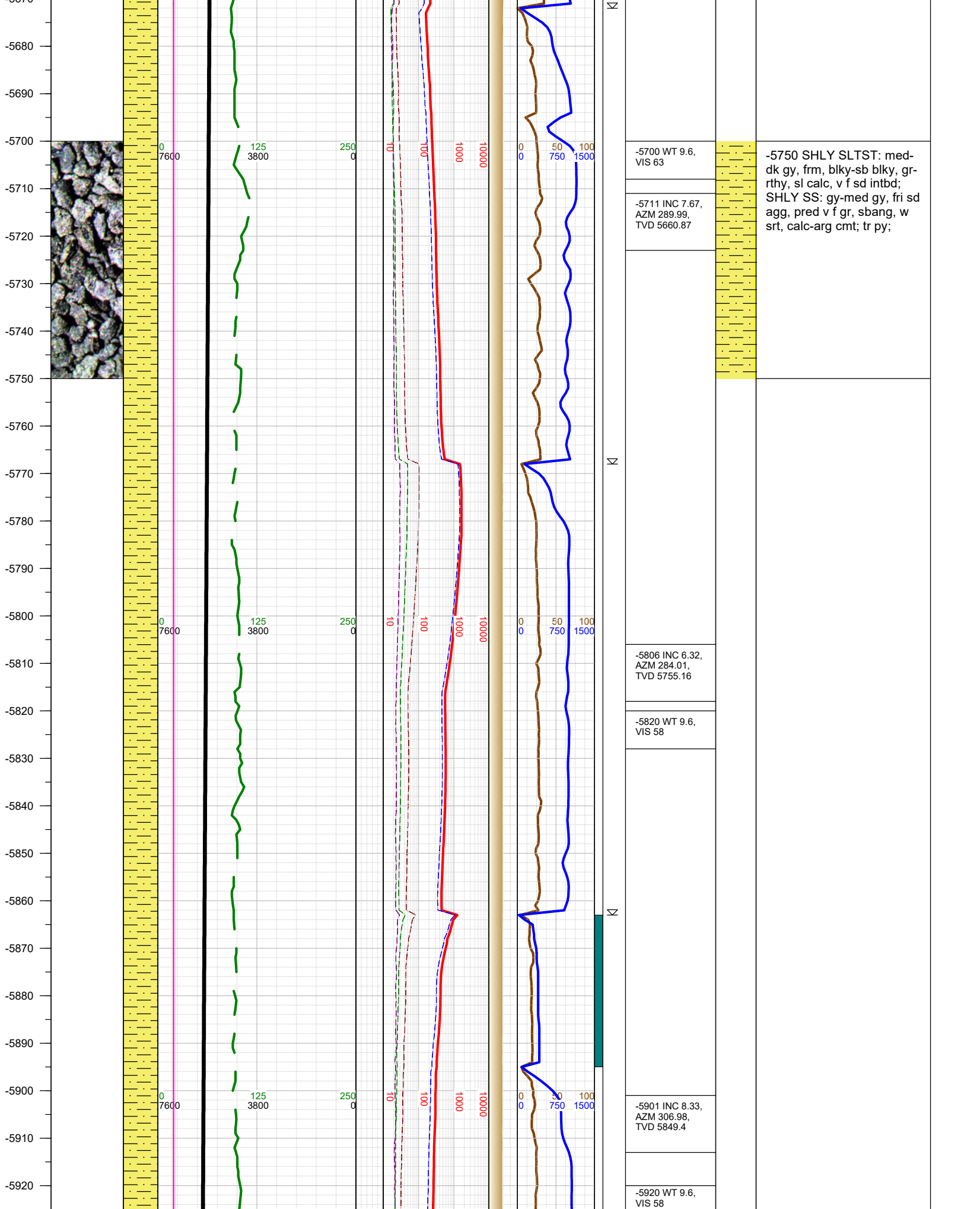


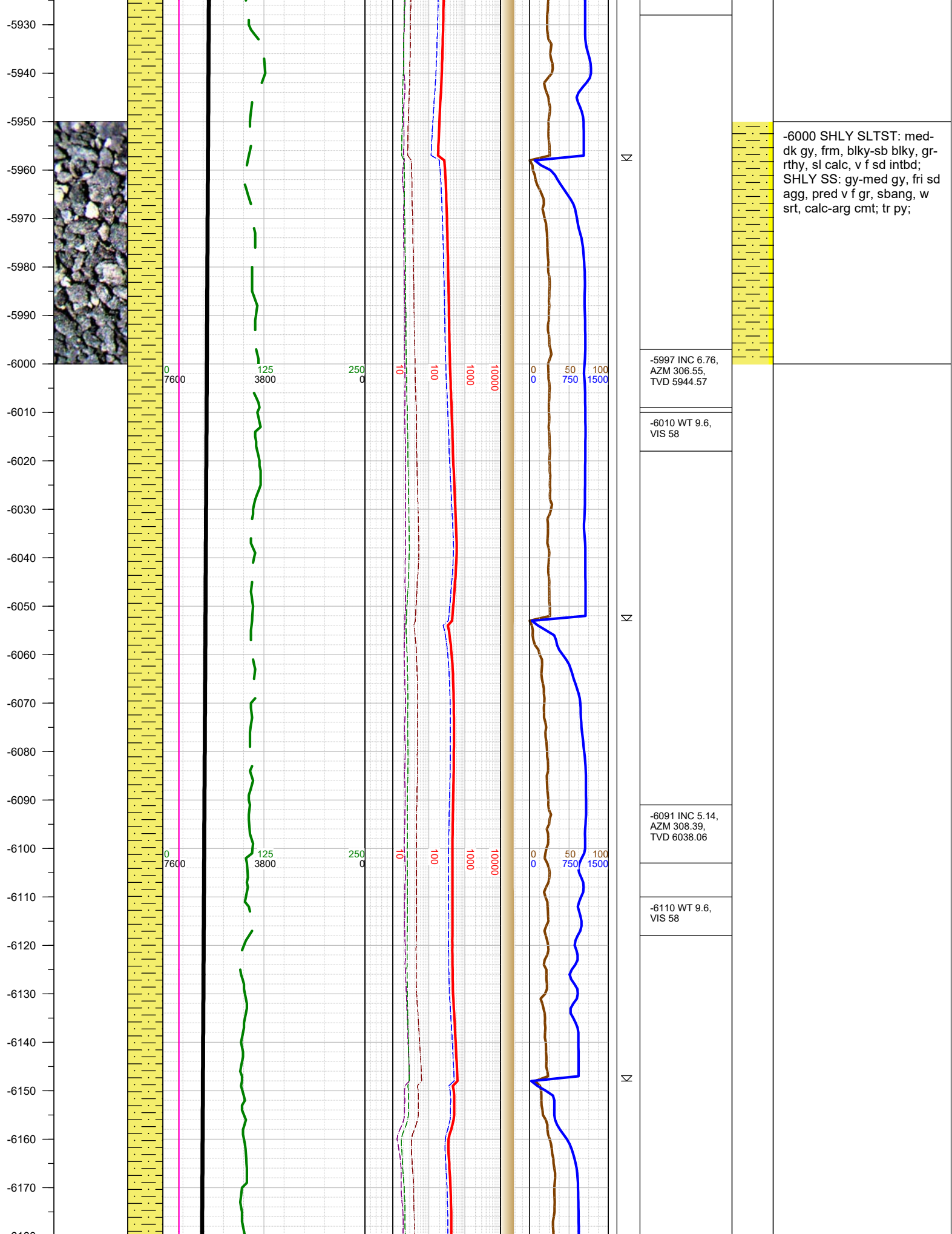
-4750 SHLY SS: wh-lt gy, fri sd agg, pred v f gr, sbang, w srt, calc-arg cmt; SS: wh-lt gy, sbrnd-sbang, f gr, w srt, w cmt, calc cmt, tr silt intbd;

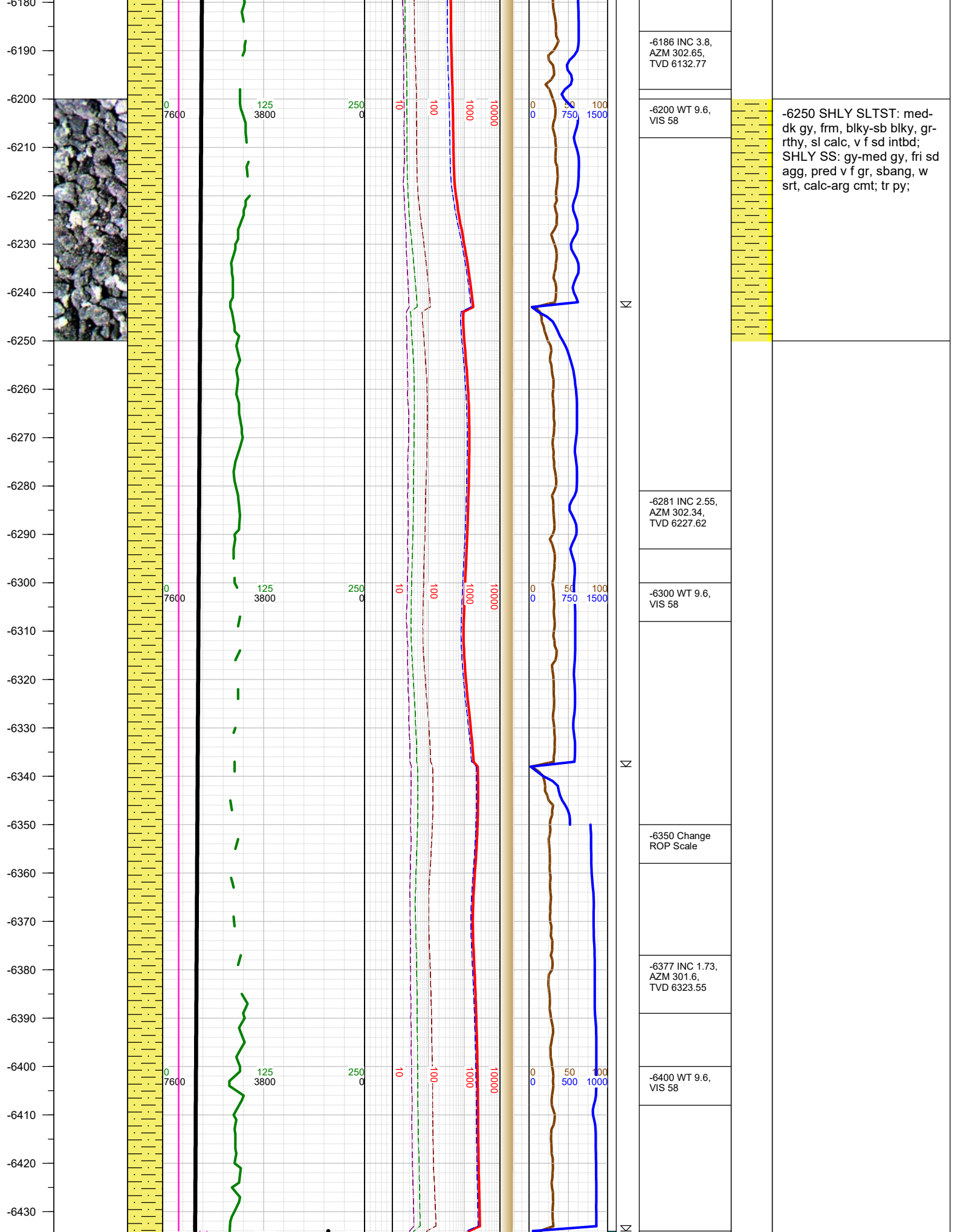


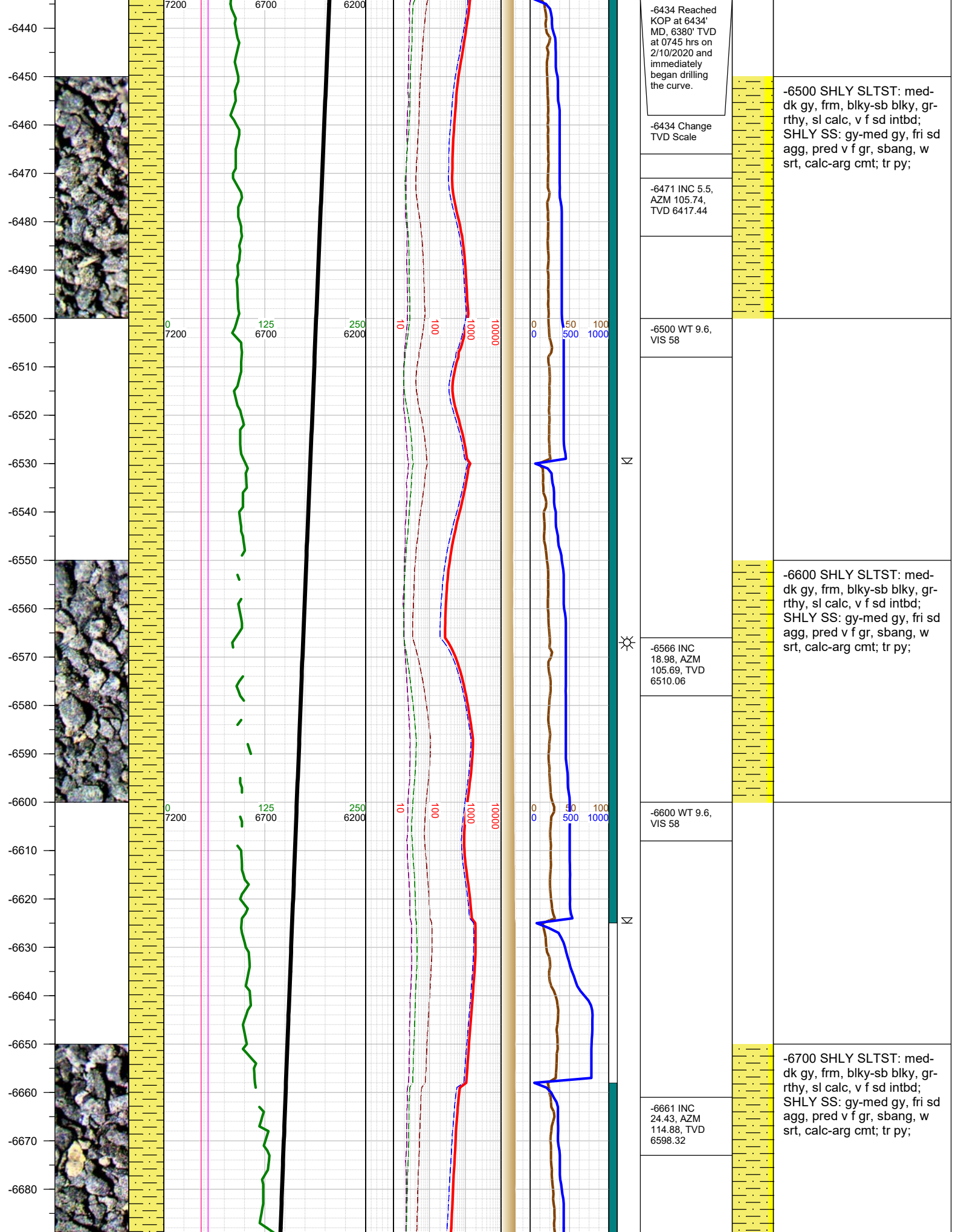


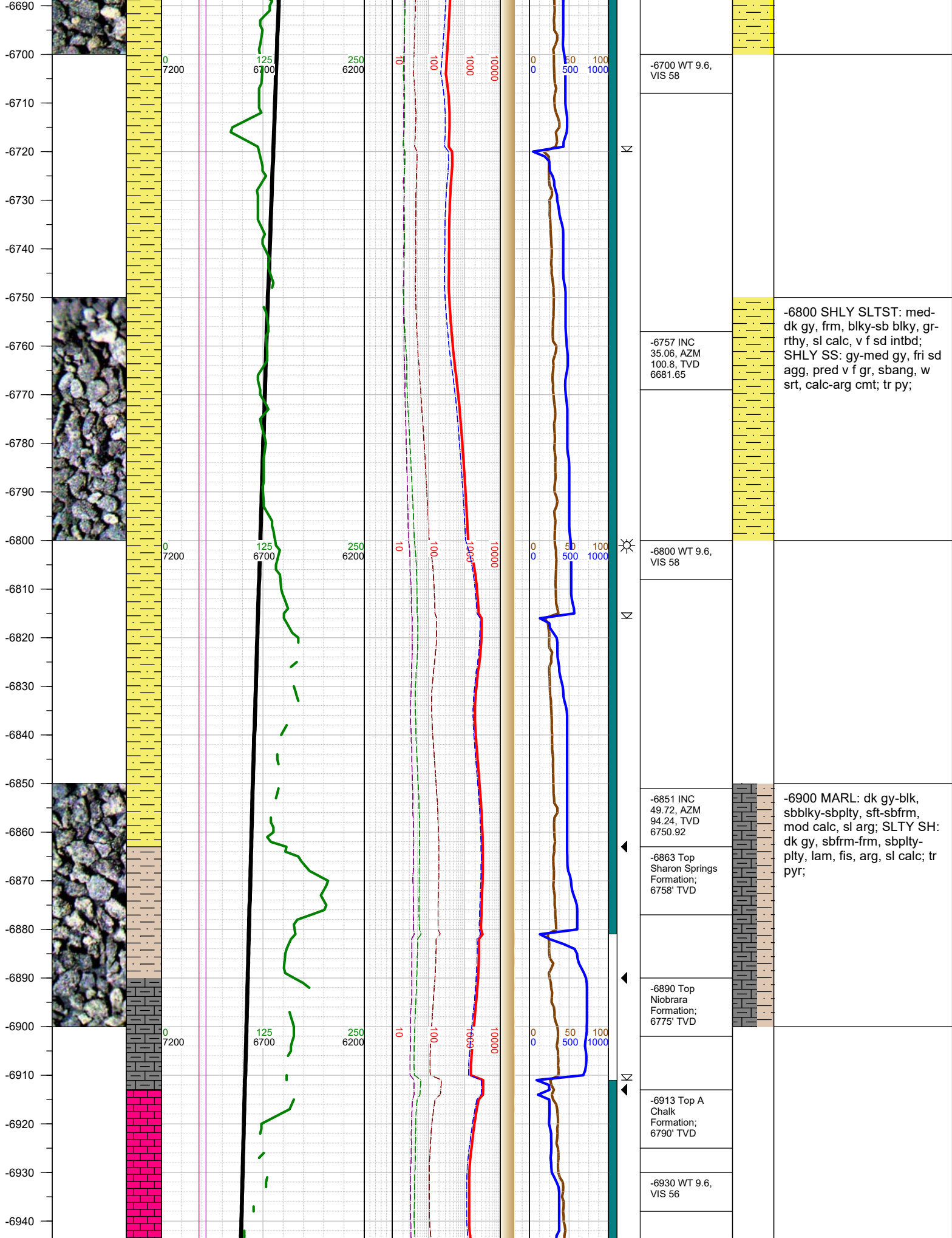


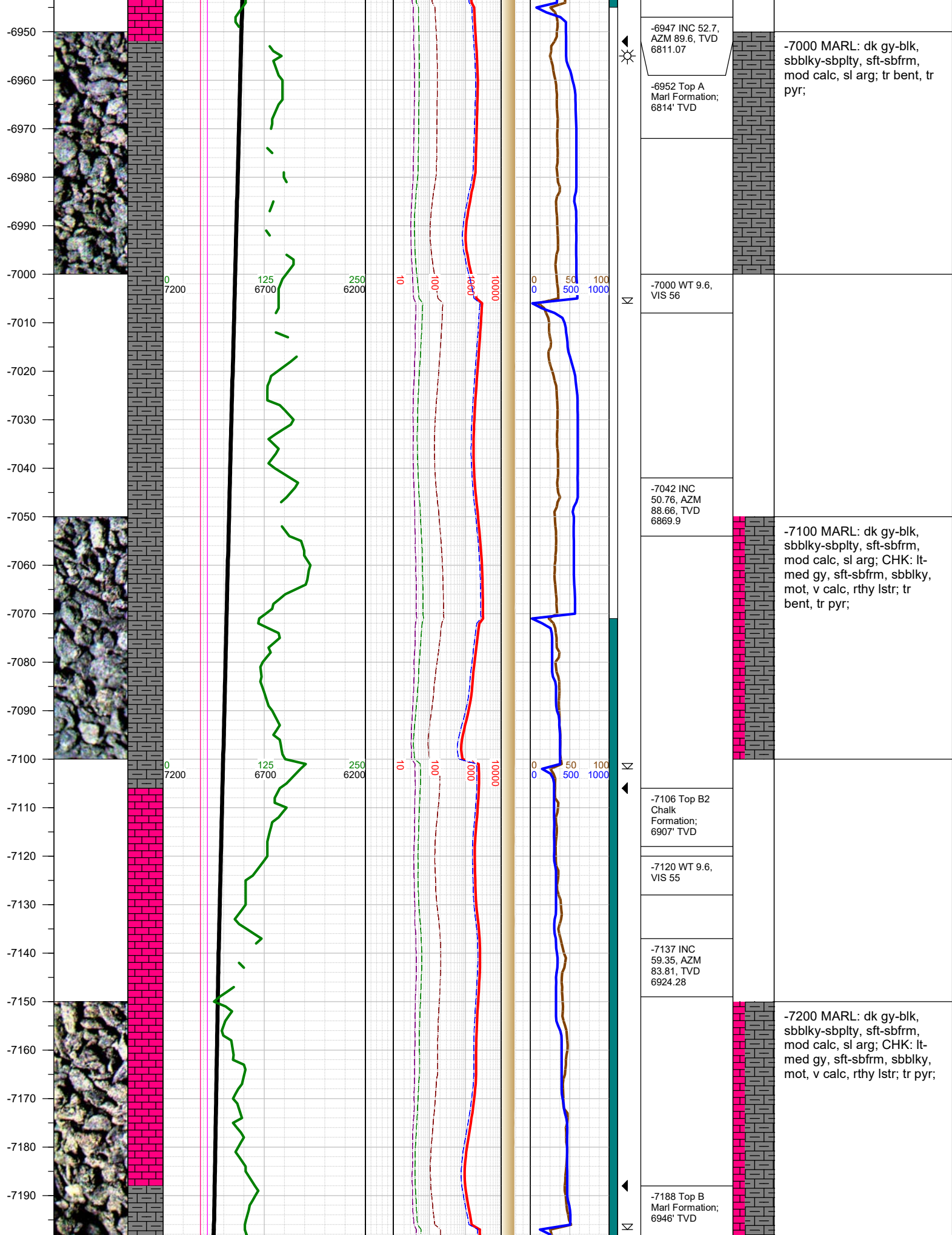


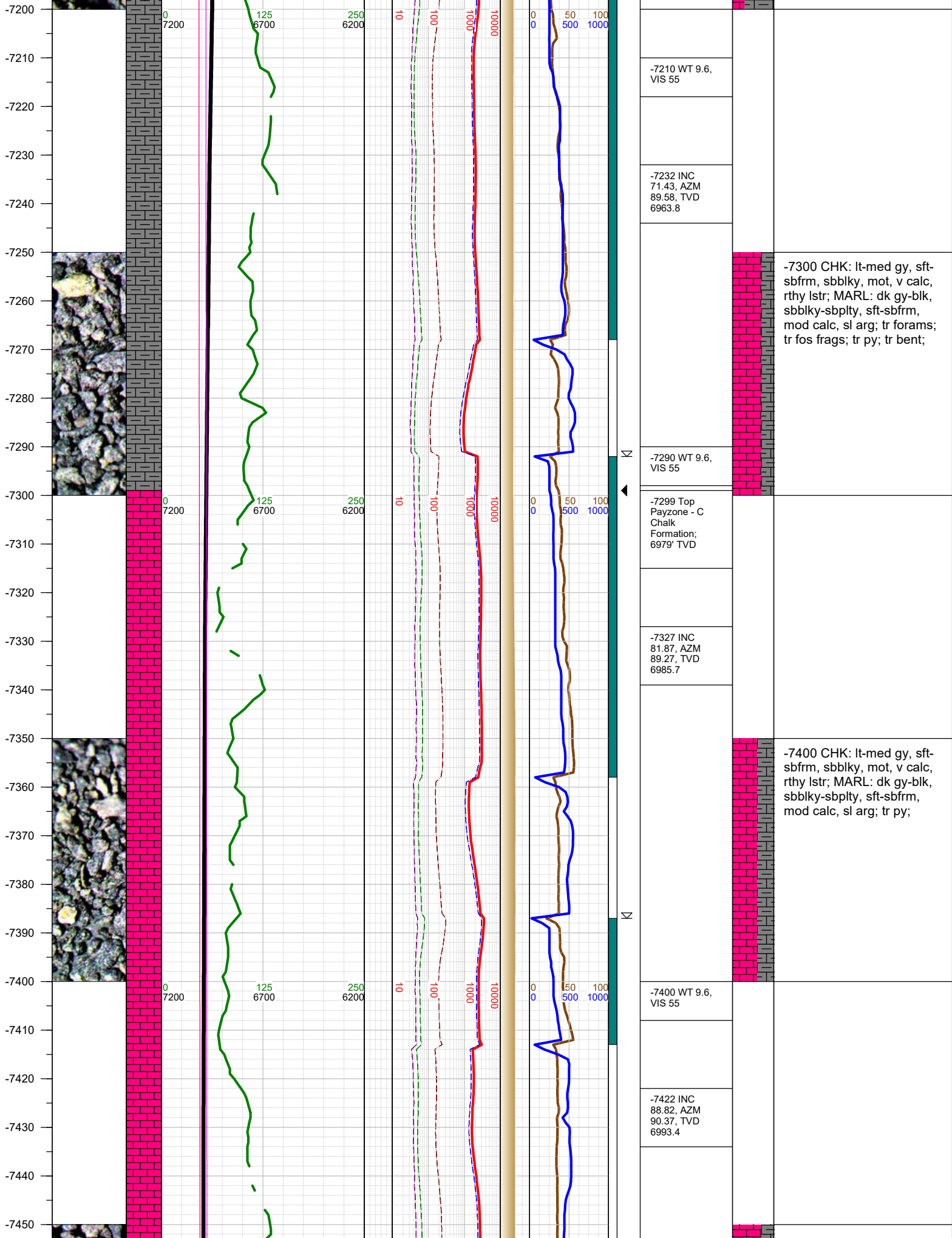


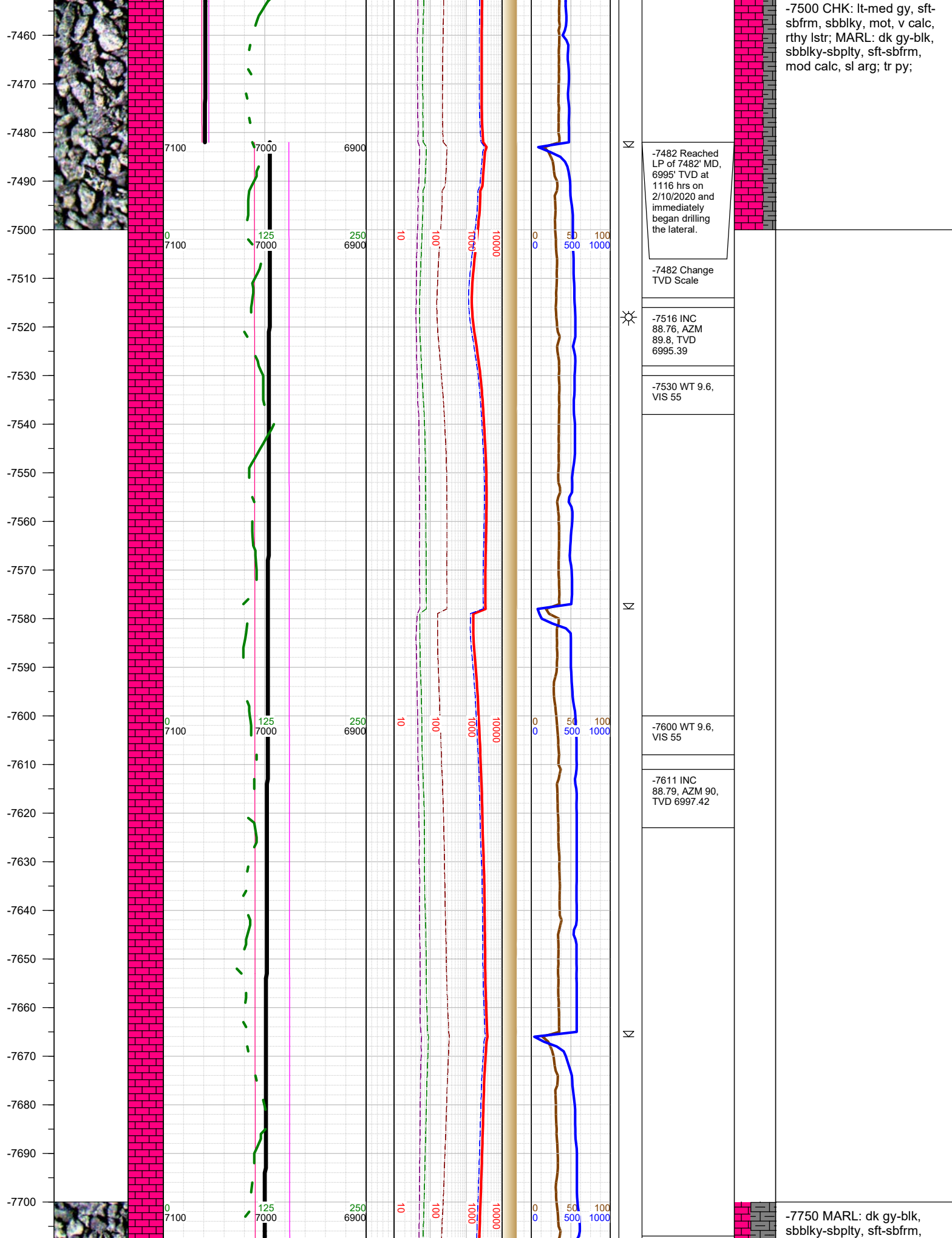












-7500 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr py;

-7482 Reached LP of 7482' MD, 6995' TVD at 1116 hrs on 2/10/2020 and immediately began drilling the lateral.

-7482 Change TVD Scale



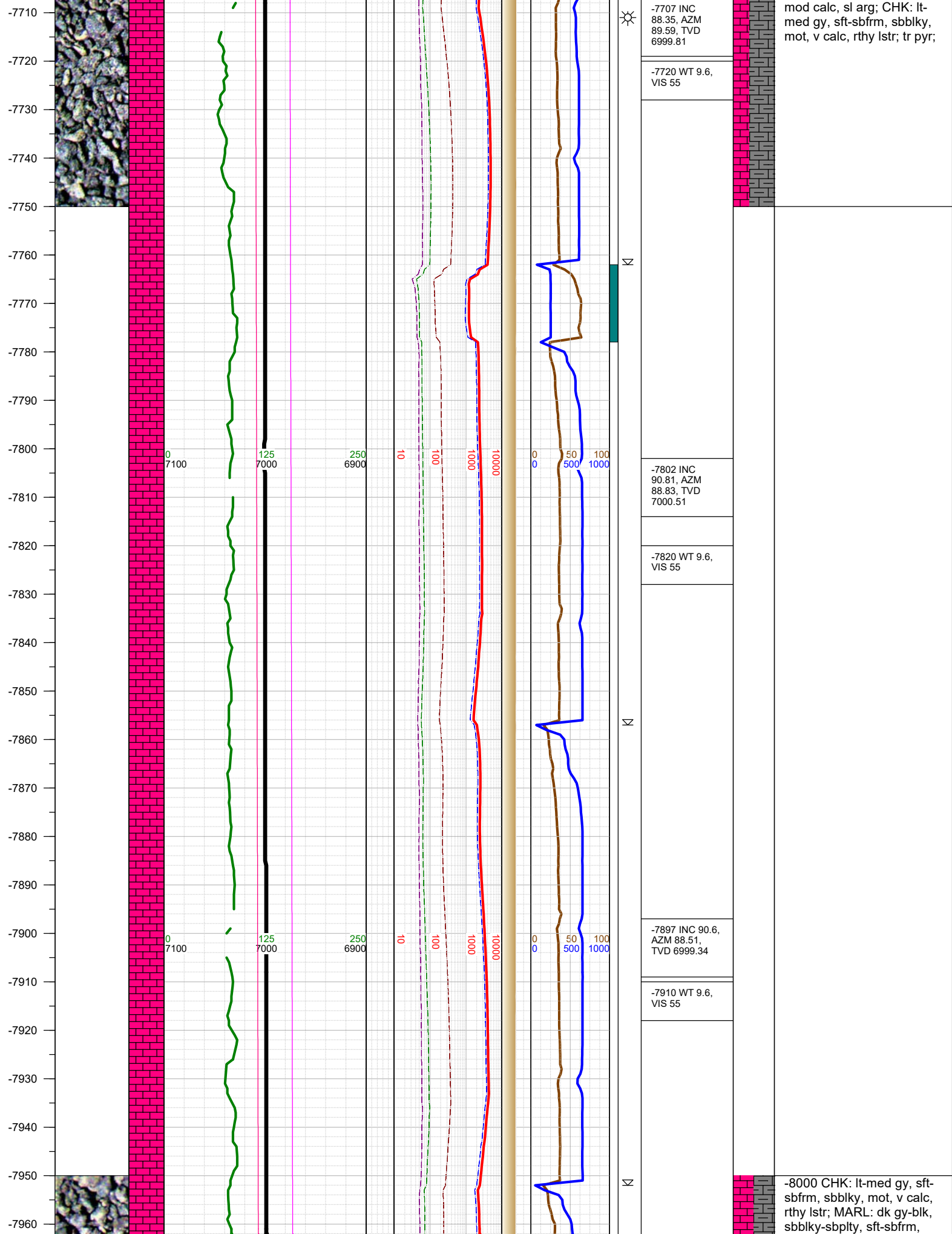
-7516 INC 88.76, AZM 89.8, TVD 6995.39

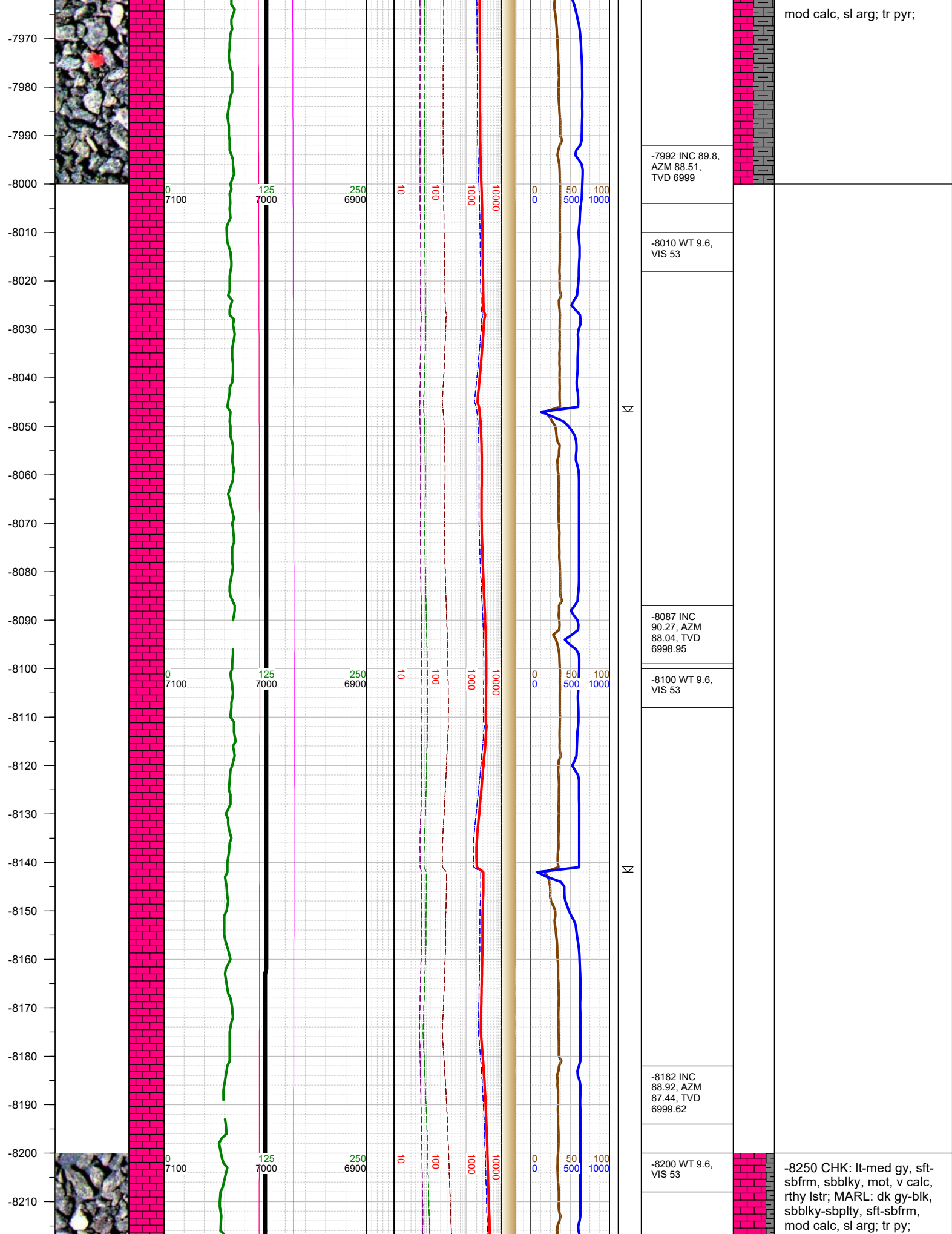
-7530 WT 9.6, VIS 55

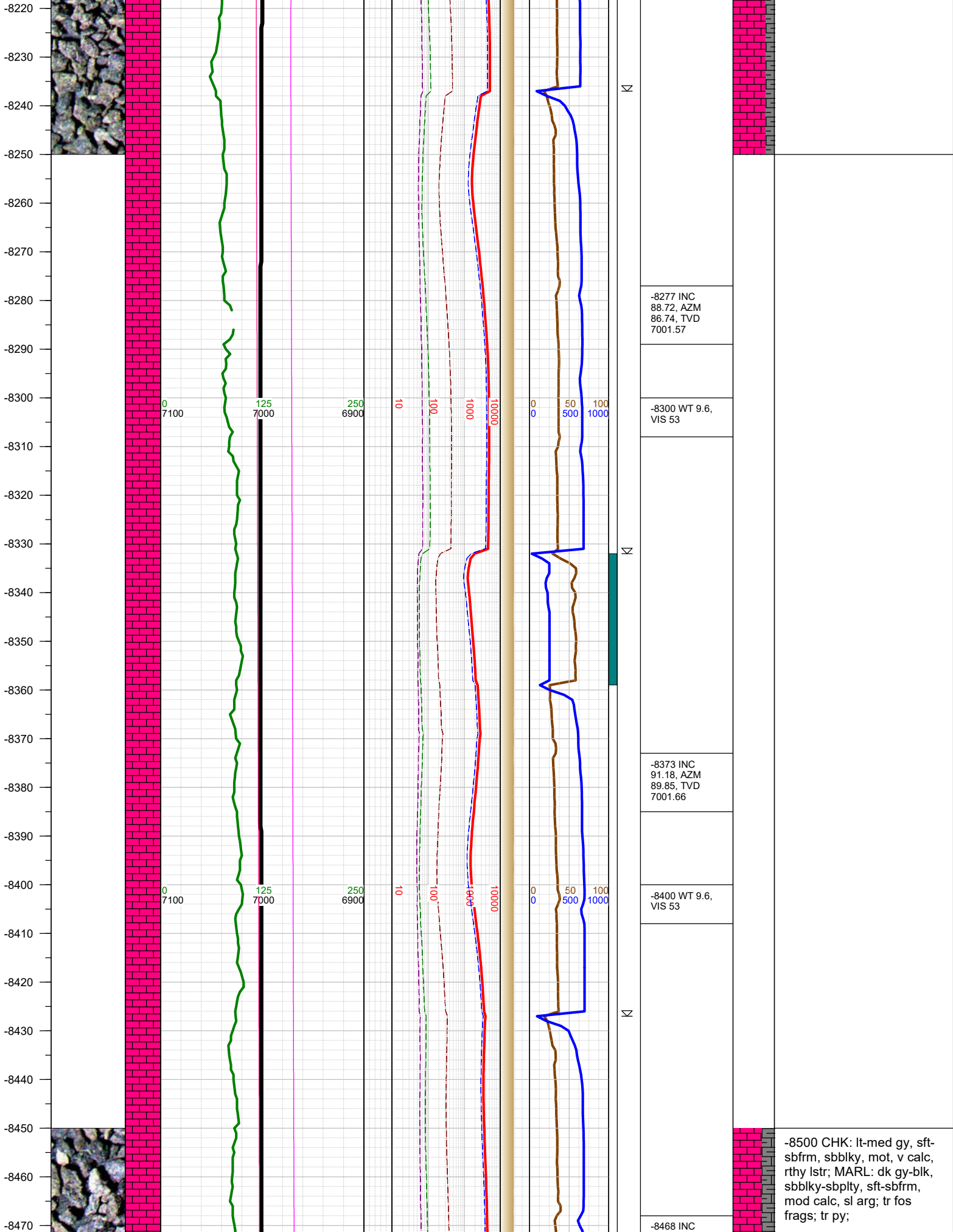
-7600 WT 9.6, VIS 55

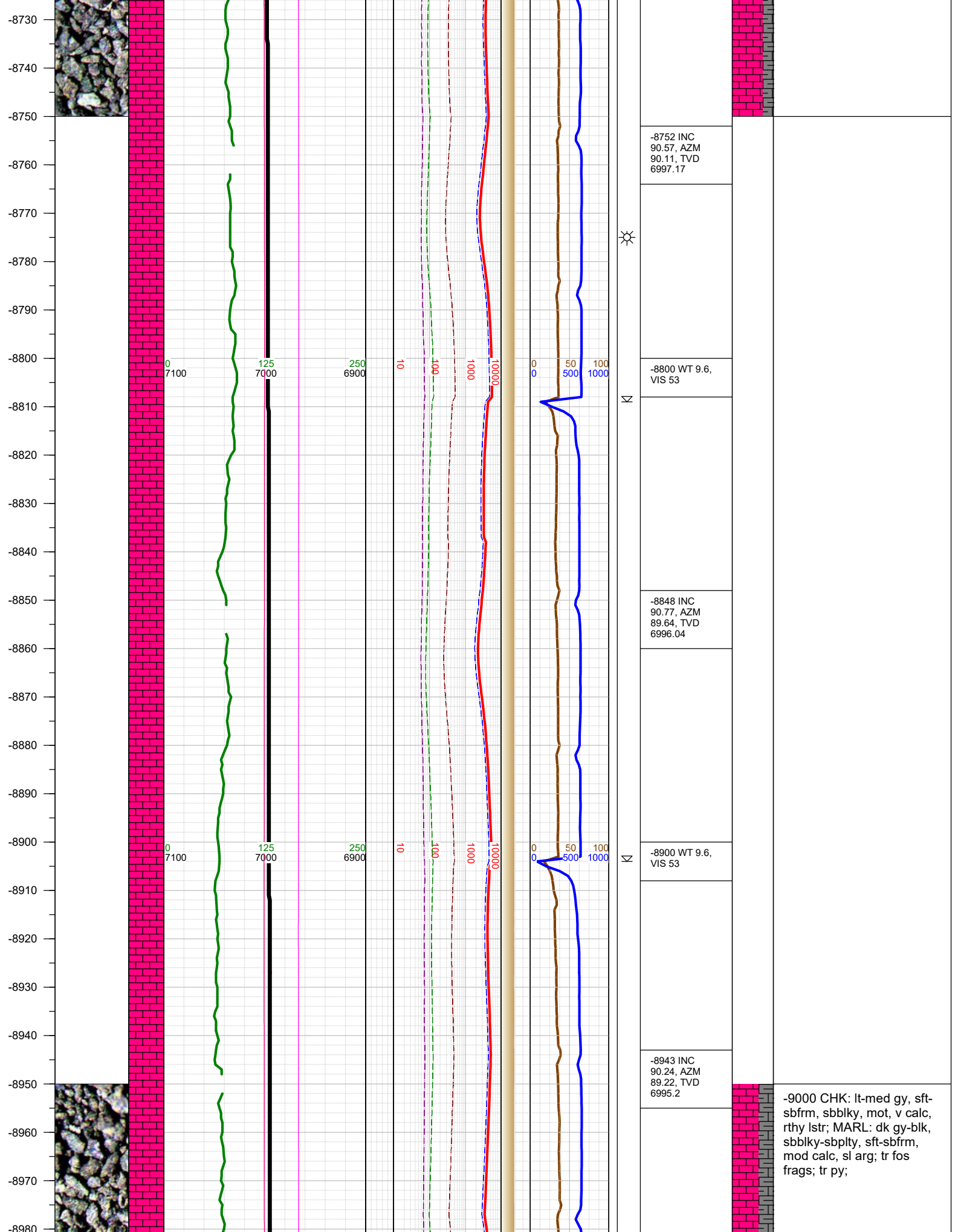
-7611 INC 88.79, AZM 90, TVD 6997.42

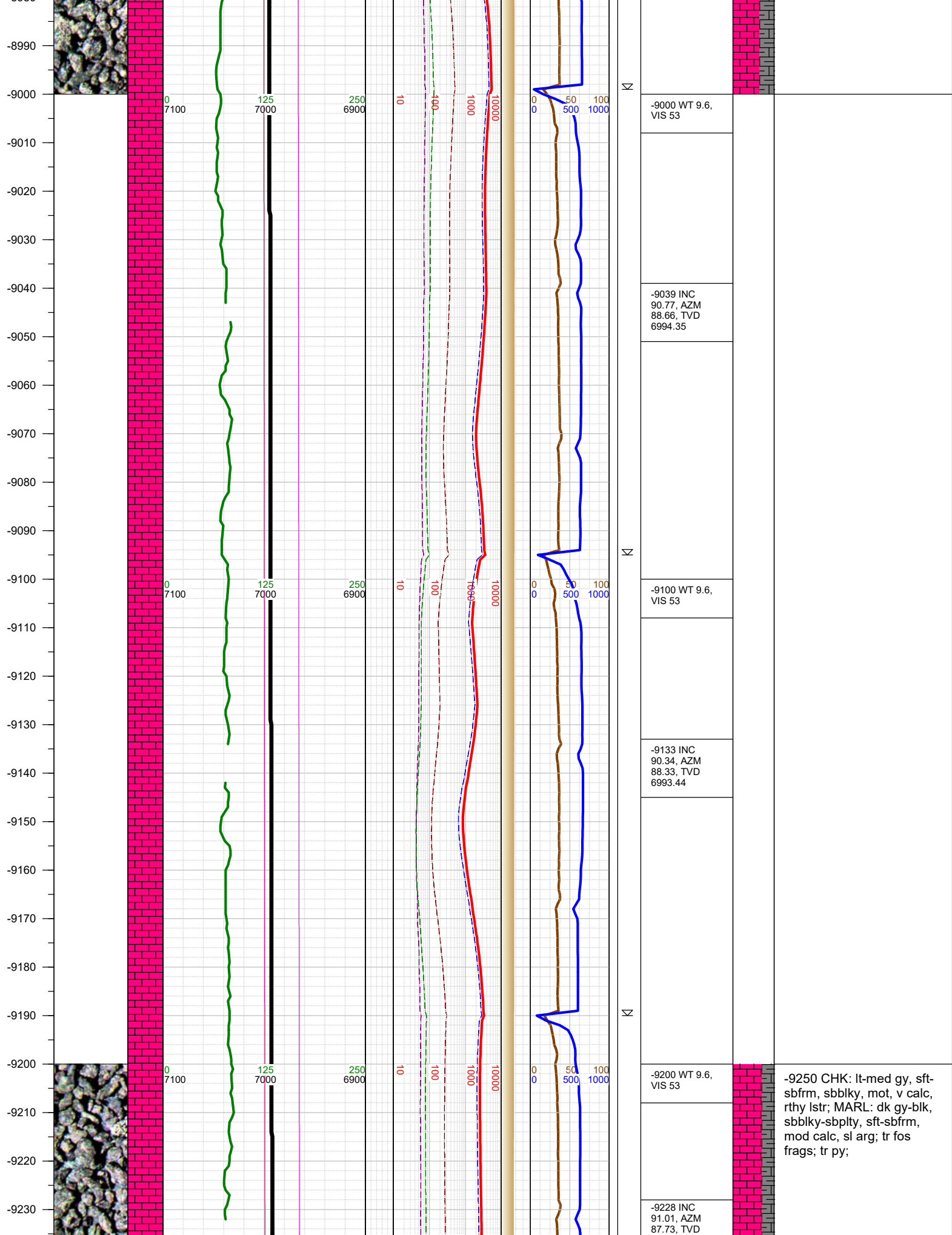
-7750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm,

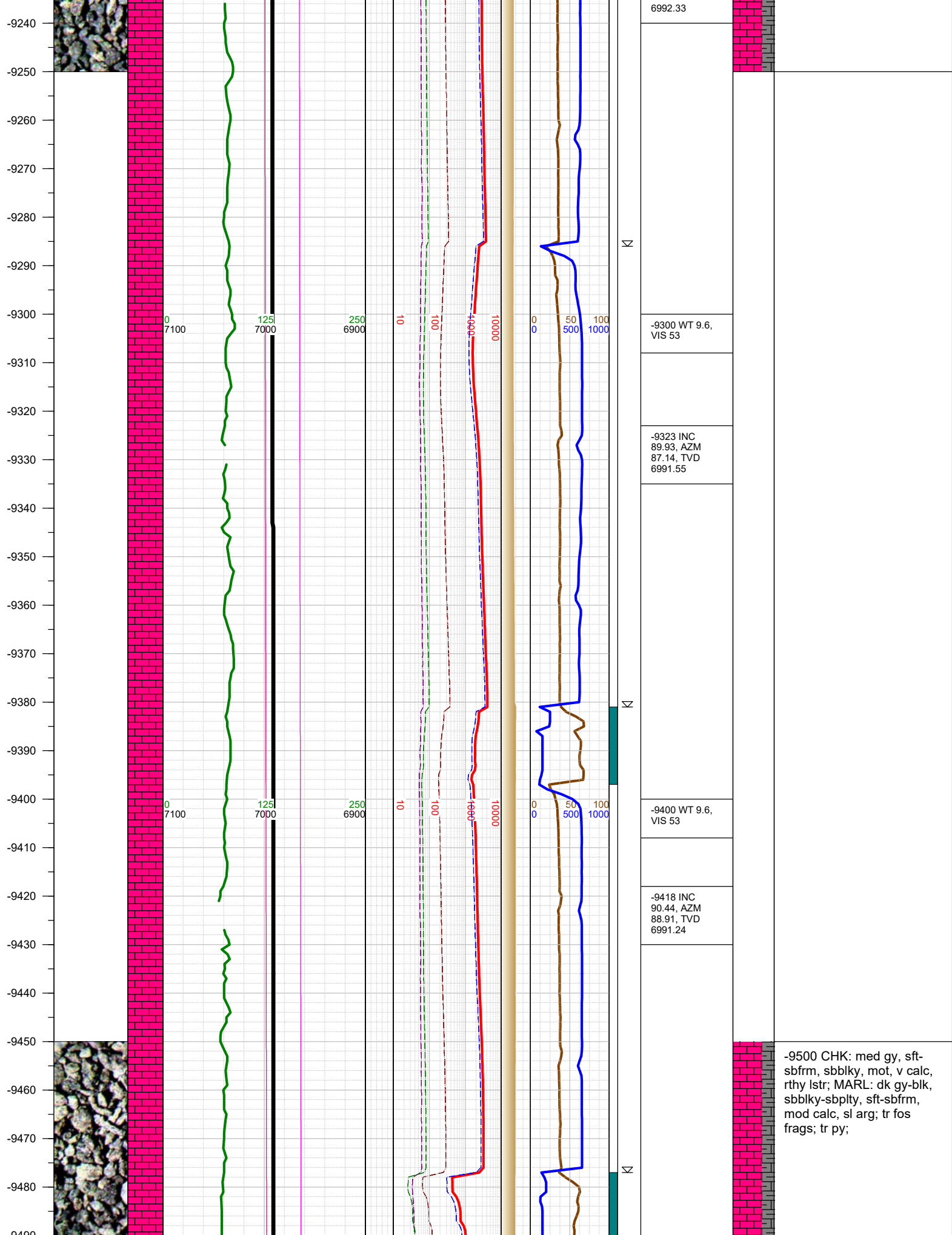


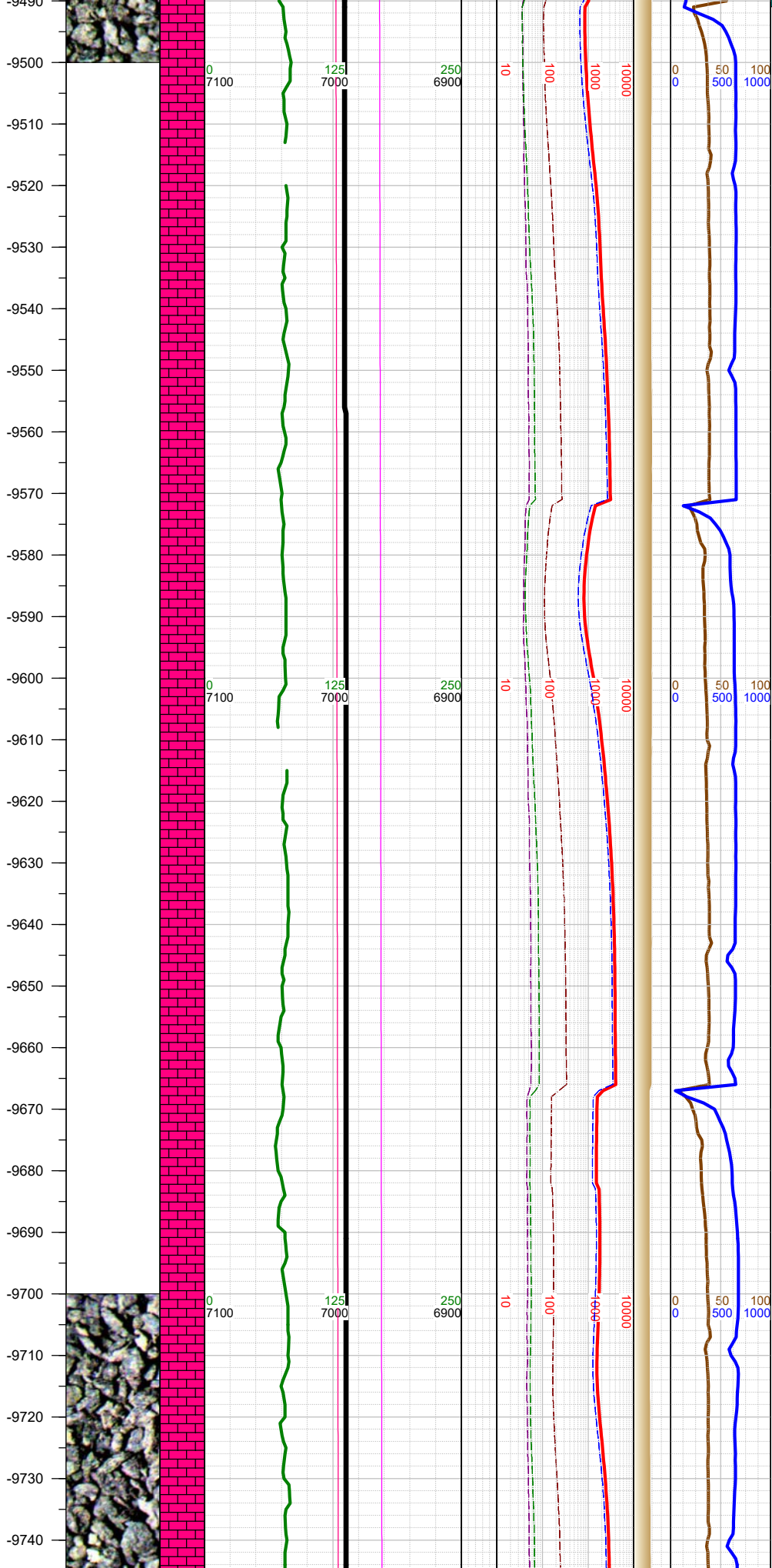




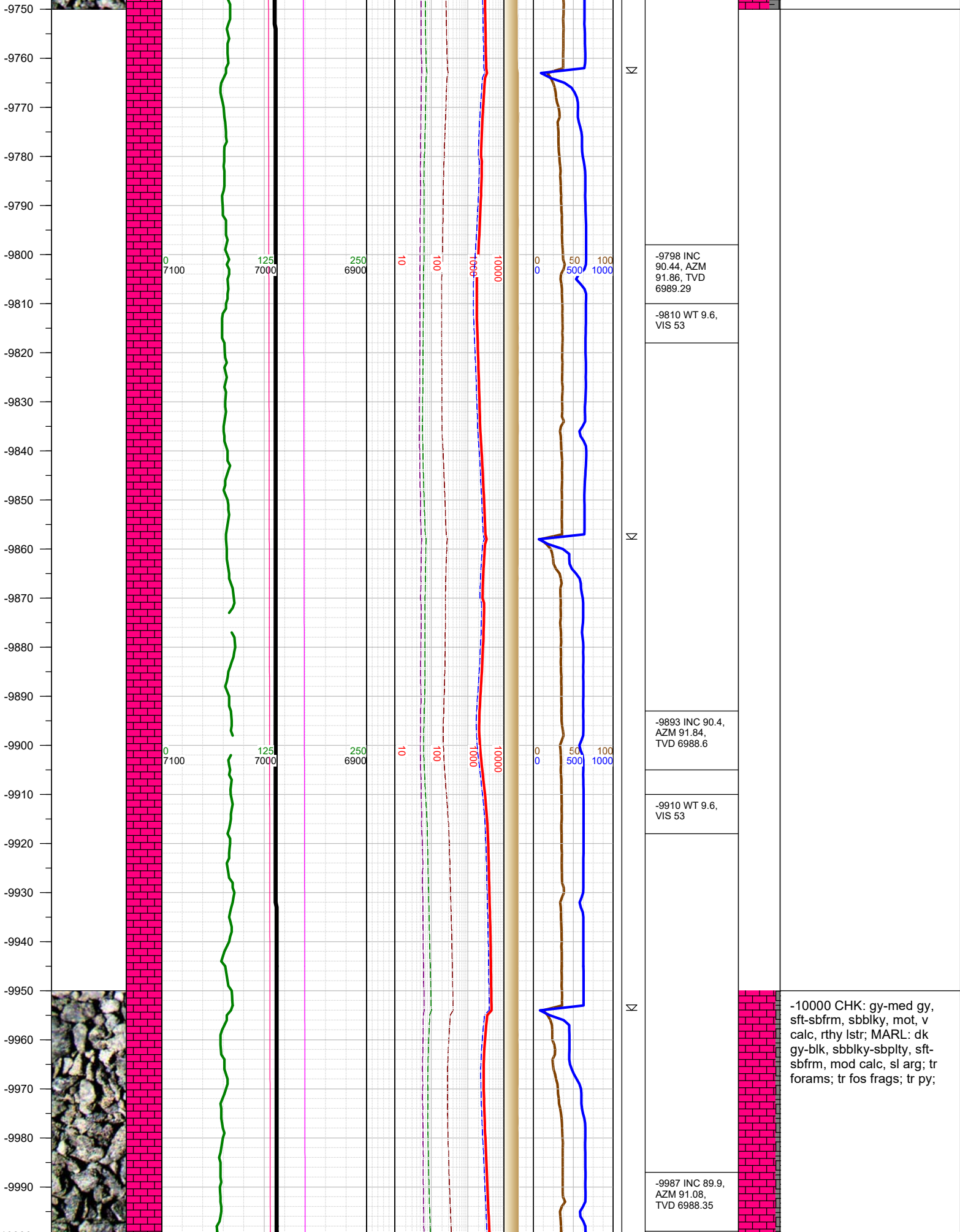


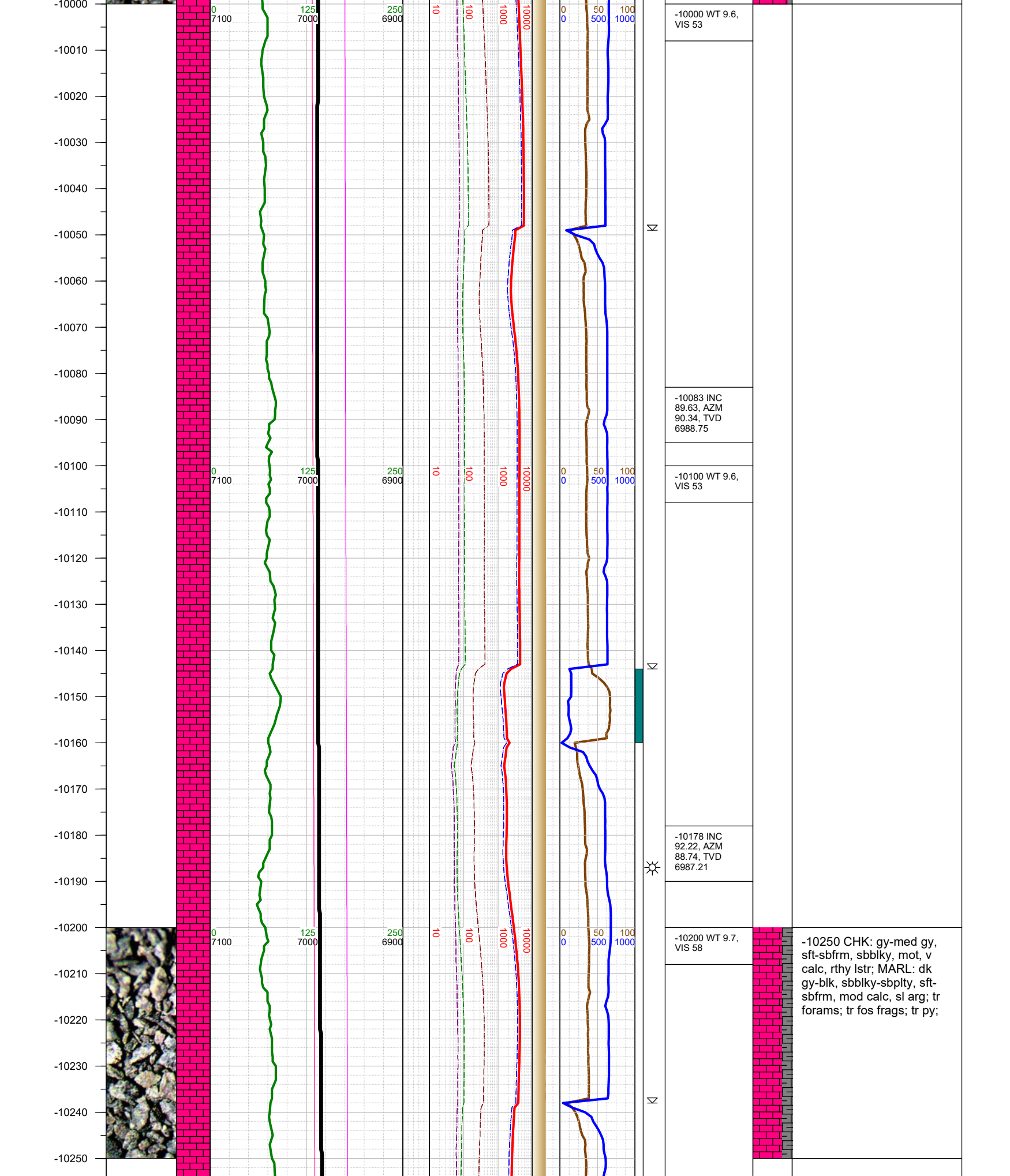




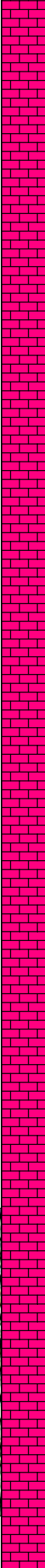
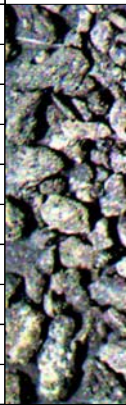


<div>-9500 WT 9.6, VIS 53</div>	<div>-9513 INC 90.17, AZM 90.89, TVD 6990.74</div>	
<div>-9600 WT 9.6, VIS 53</div>	<div>-9608 INC 90.5, AZM 91.43, TVD 6990.19</div>	
<div>-9704 INC 90.07, AZM 91.2, TVD 6989.71</div>	<div>-9720 WT 9.6, VIS 53</div>	<div>-9750 CHK: med gy, sft- sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; tr py;</div>

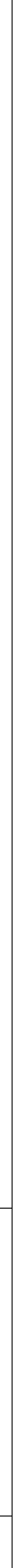
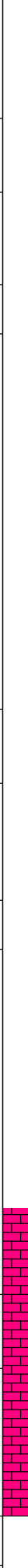
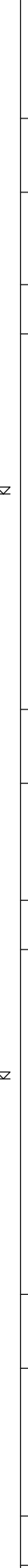
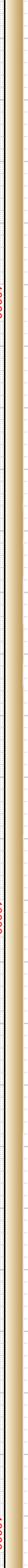
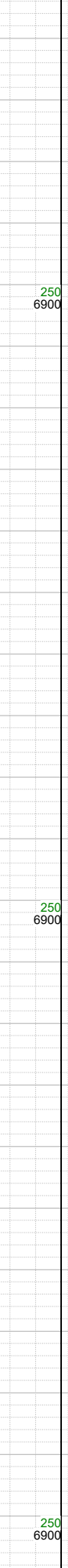
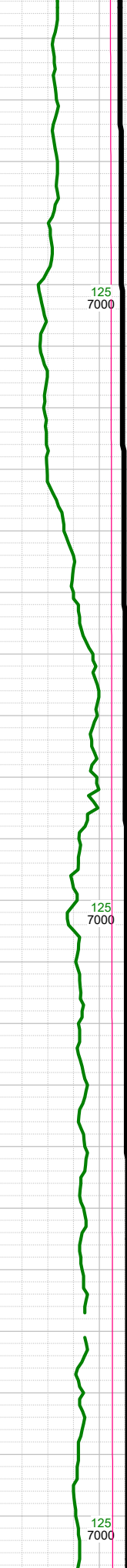




-10260
-10270
-10280
-10290
-10300
-10310
-10320
-10330
-10340
-10350
-10360
-10370
-10380
-10390
-10400
-10410
-10420
-10430
-10440
-10450
-10460
-10470
-10480
-10490
-10500



0 7100
125 7000
250 6900
10 100 1000 10000
0 0 50 100 500 1000



-10273 INC
92.19, AZM
88.63, TVD
6983.56

-10300 WT 9.7,
VIS 58

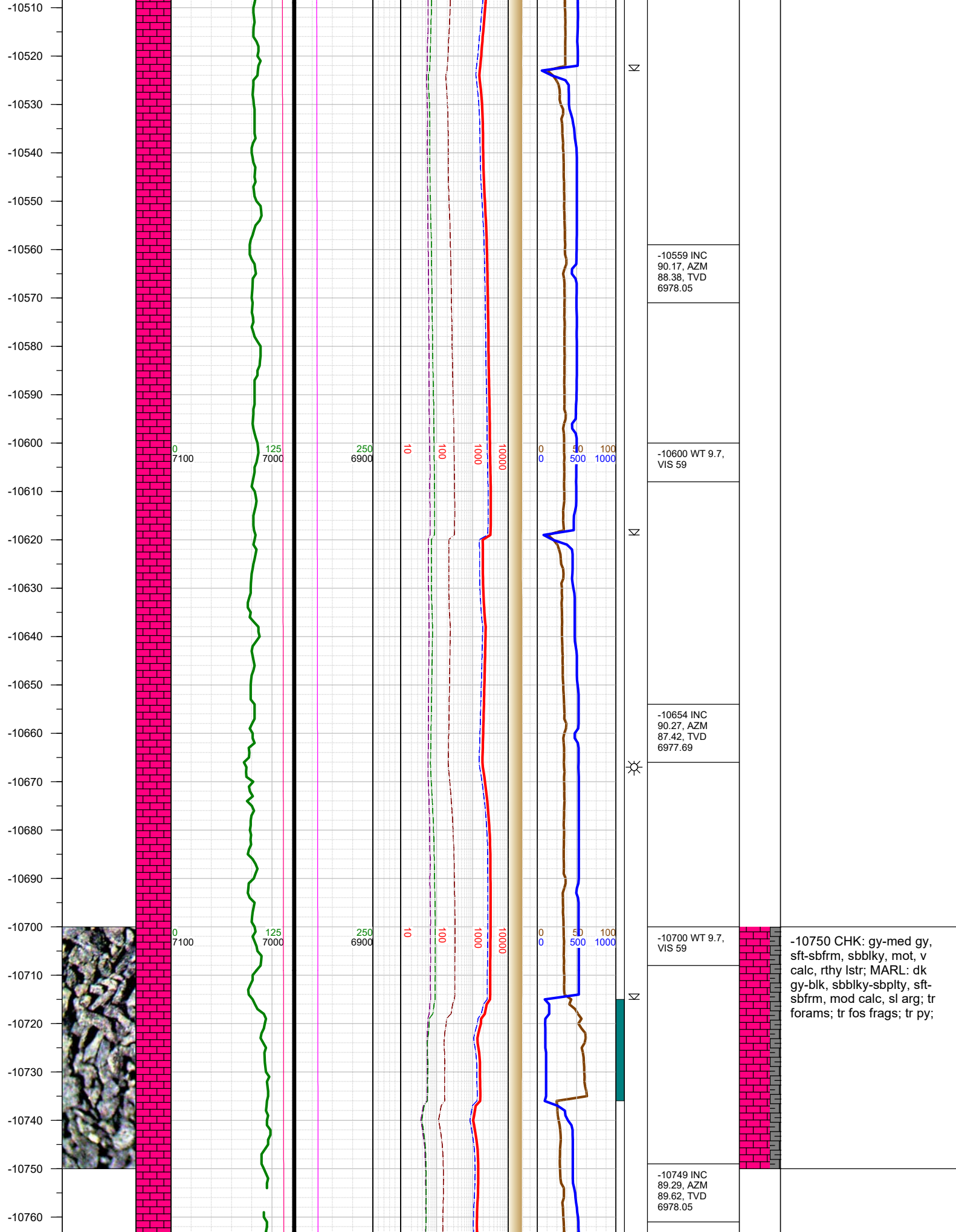
-10369 INC
92.25, AZM
88.4, TVD
6979.84

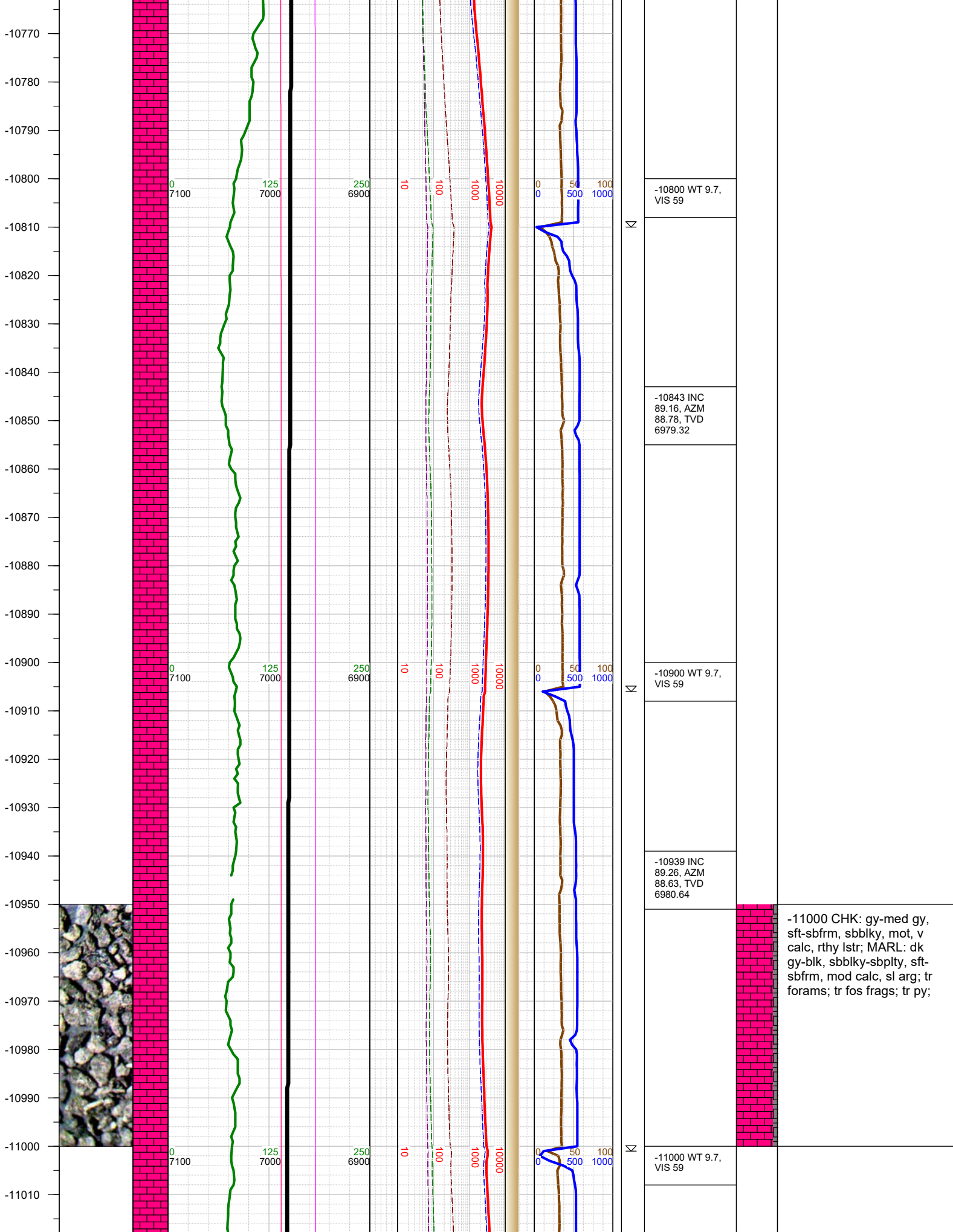
-10400 WT 9.7,
VIS 58

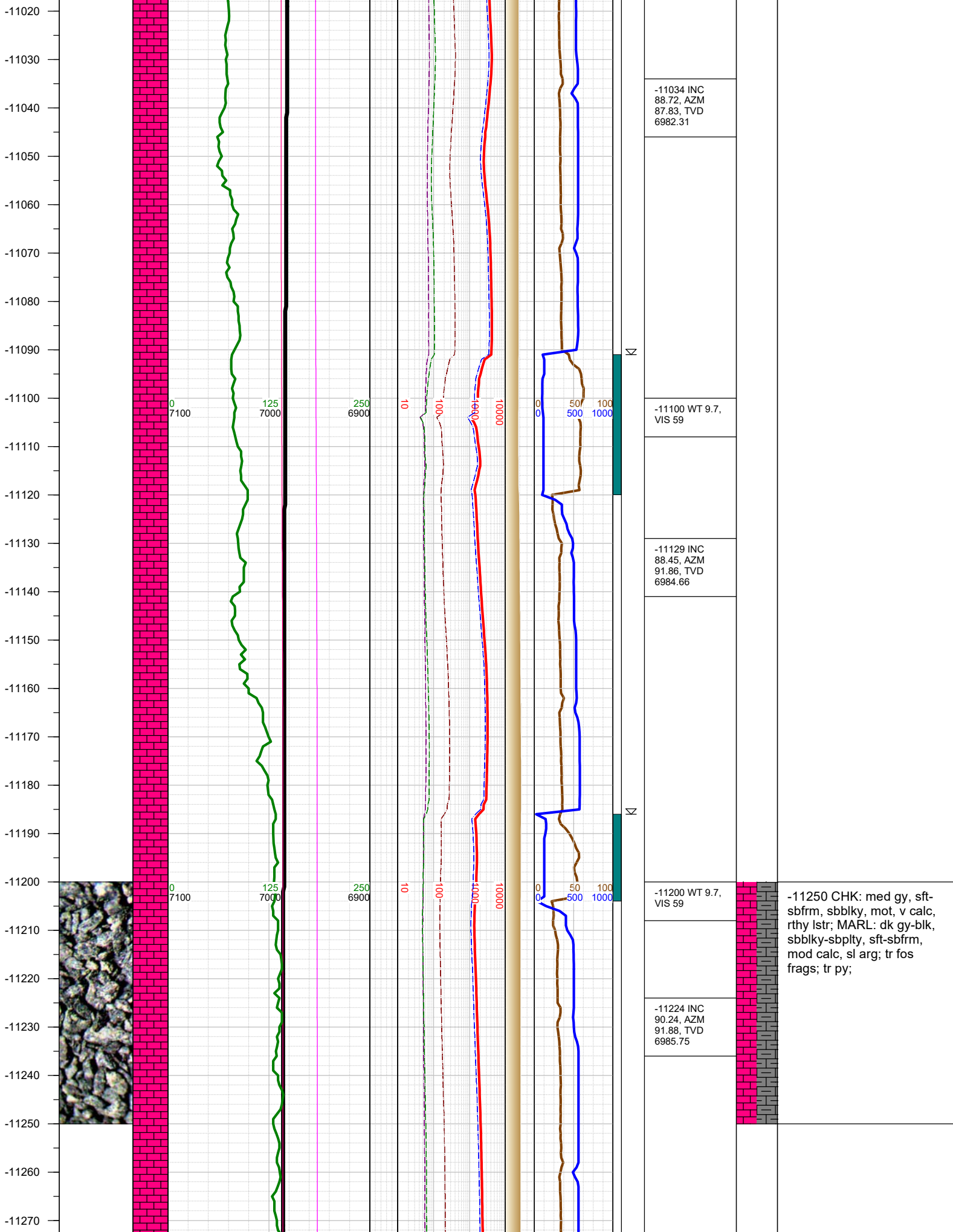
-10464 INC
89.87, AZM
87.93, TVD
6978.08

-10500 WT 9.7,
VIS 58

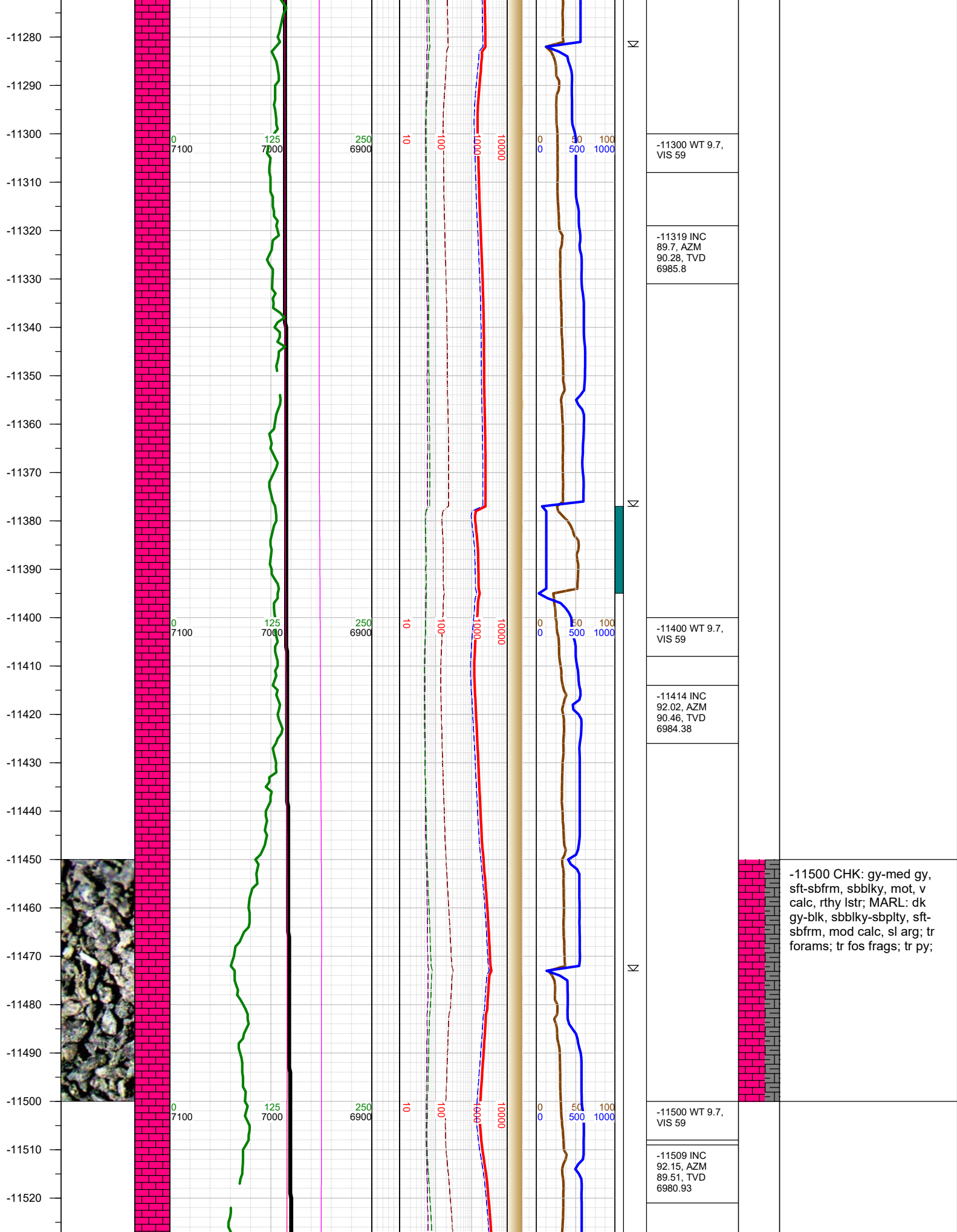
-10500 CHK: gy-med gy,
sft-sbfrm, sbbkly, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbbkly-sbplty, sft-
sbfrm, mod calc, sl arg; tr
forams; tr fos frags; tr py;

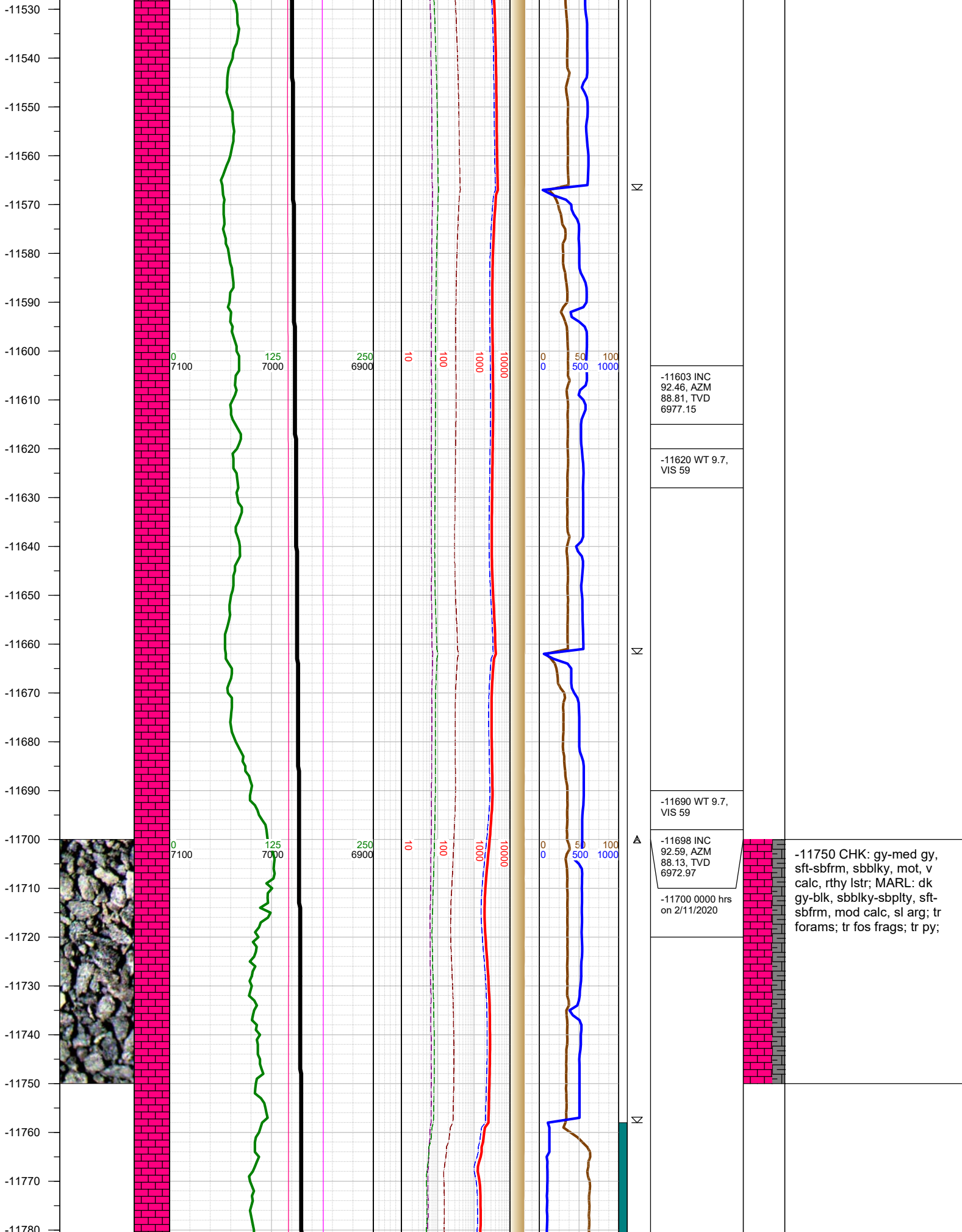




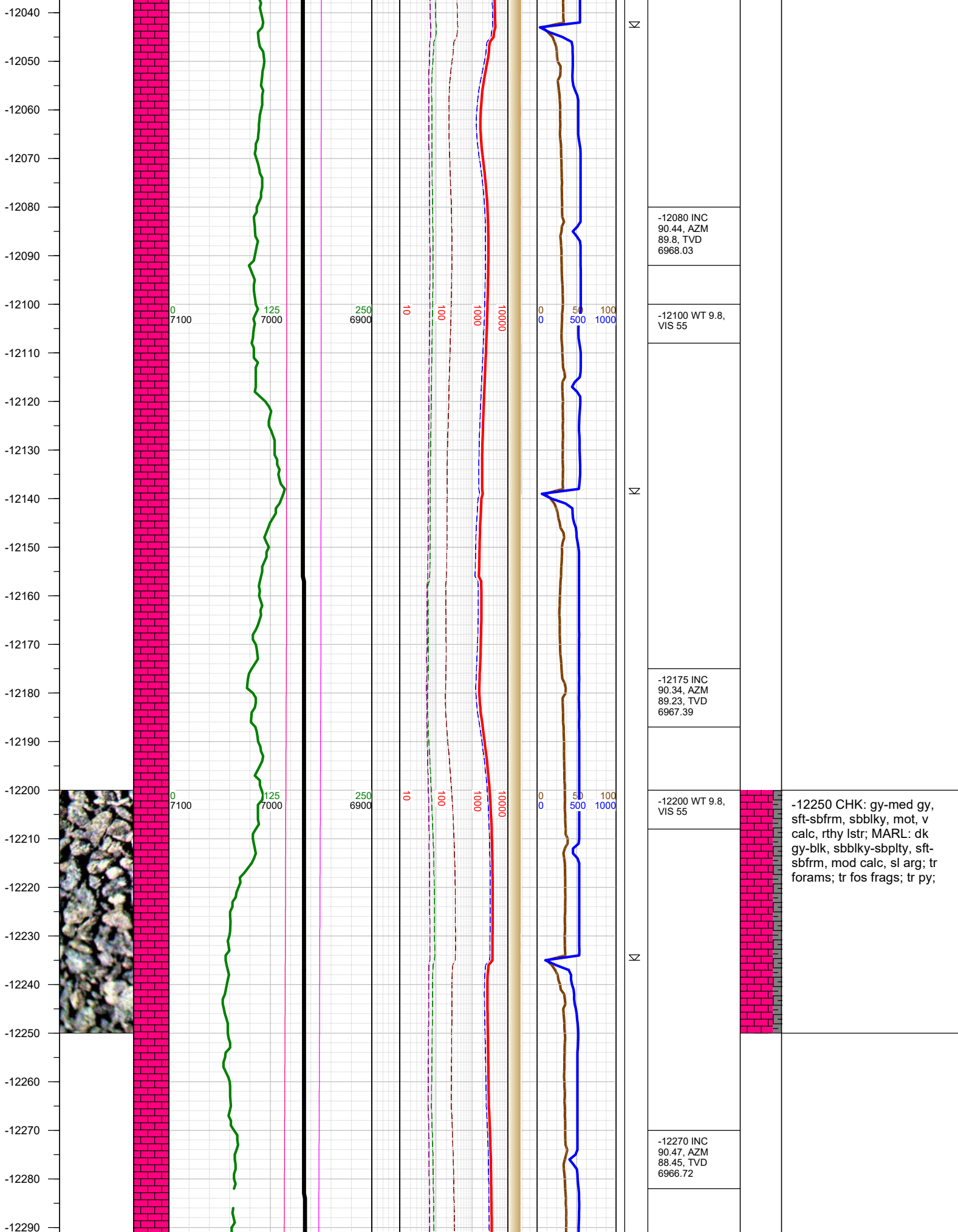


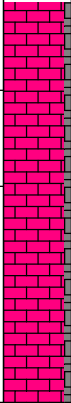
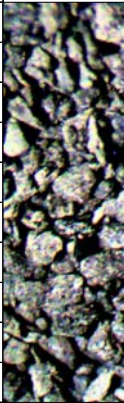
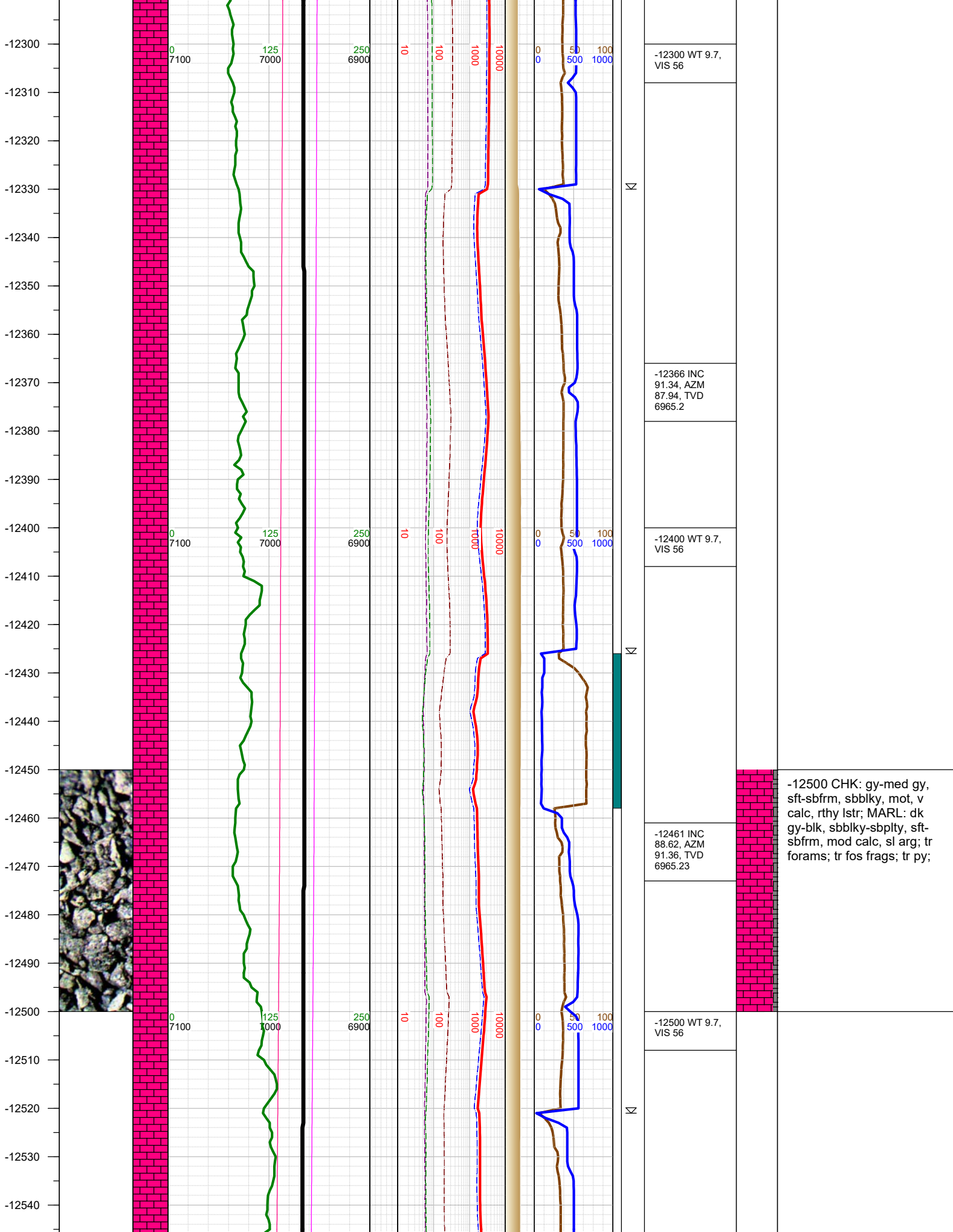
-11250 CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr py;





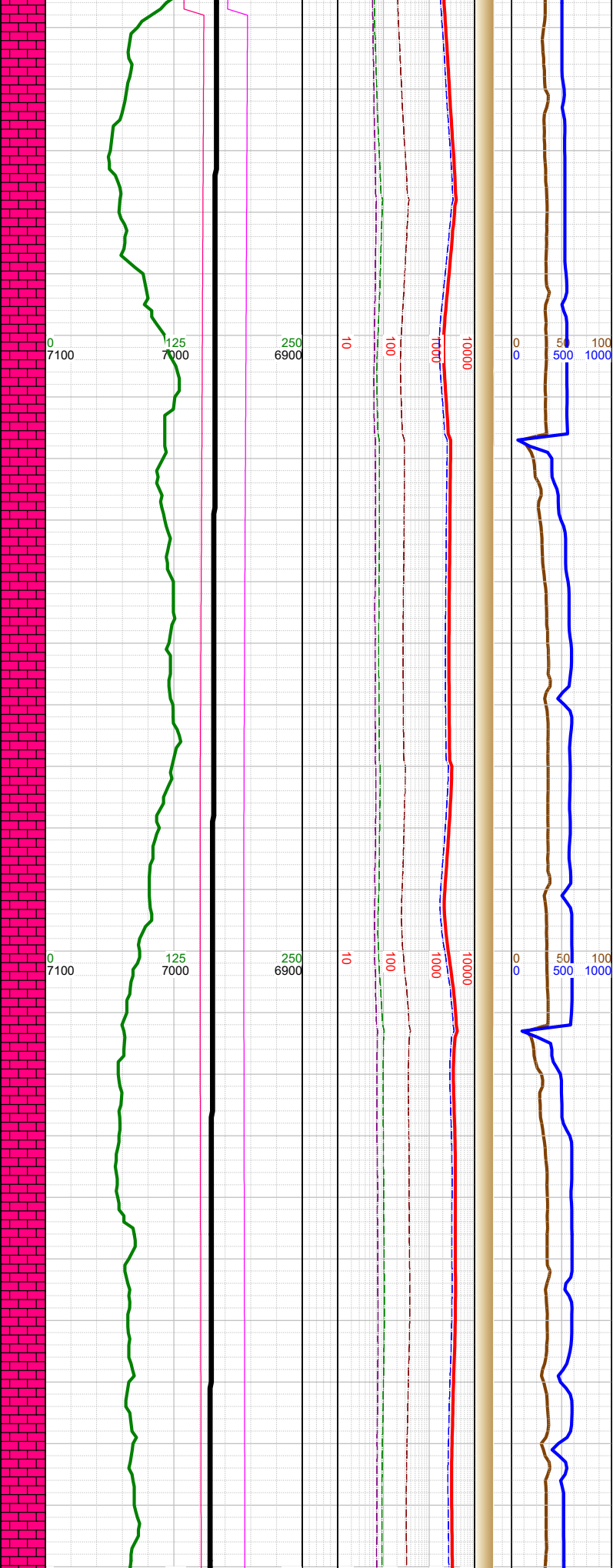
-11750 CHK: gy-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; tr py;



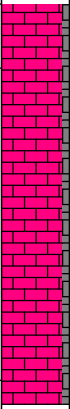


-12500 CHK: gy-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr forams; tr fos frags; tr py;

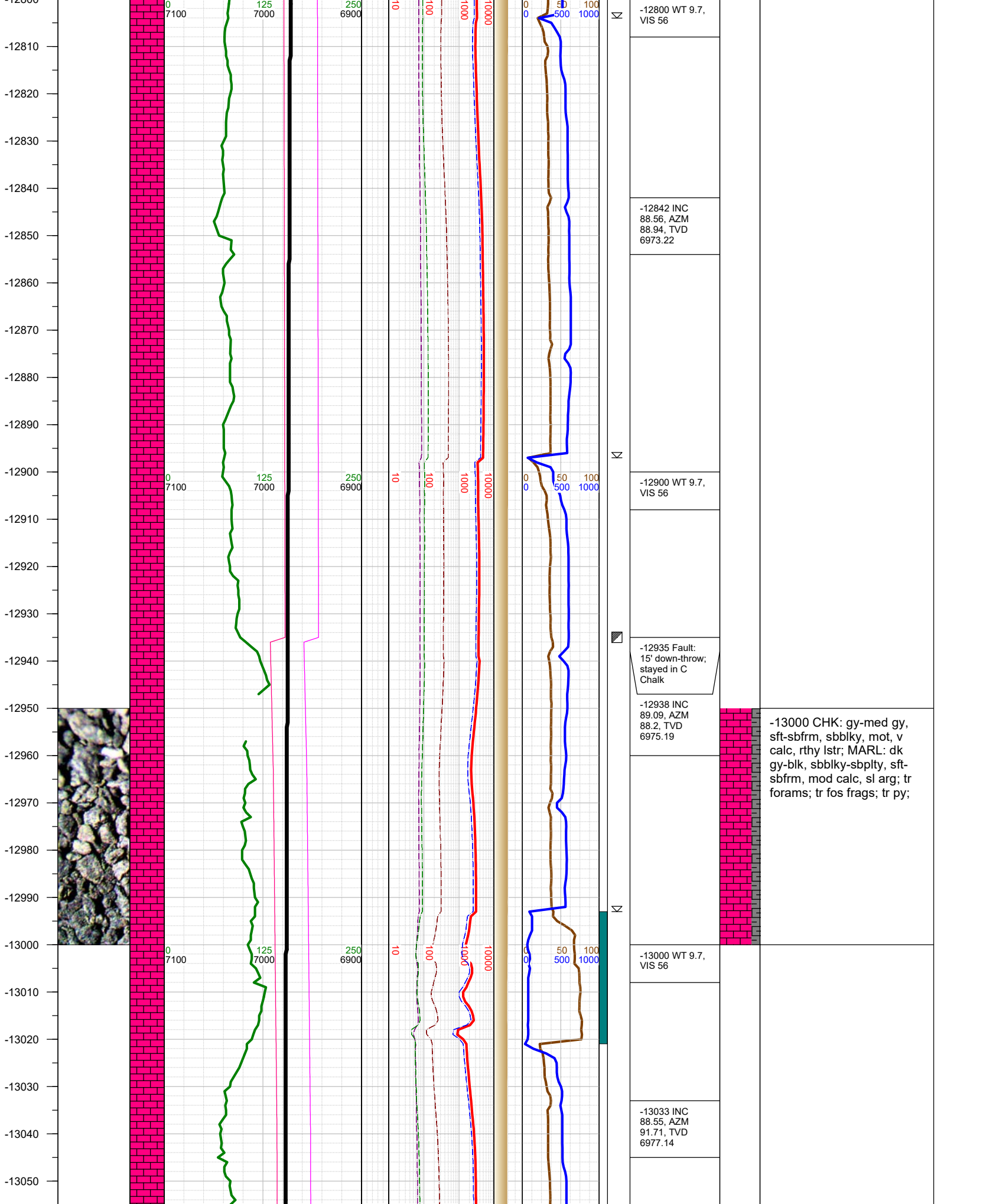
-12550
-12560
-12570
-12580
-12590
-12600
-12610
-12620
-12630
-12640
-12650
-12660
-12670
-12680
-12690
-12700
-12710
-12720
-12730
-12740
-12750
-12760
-12770
-12780
-12790
-12800

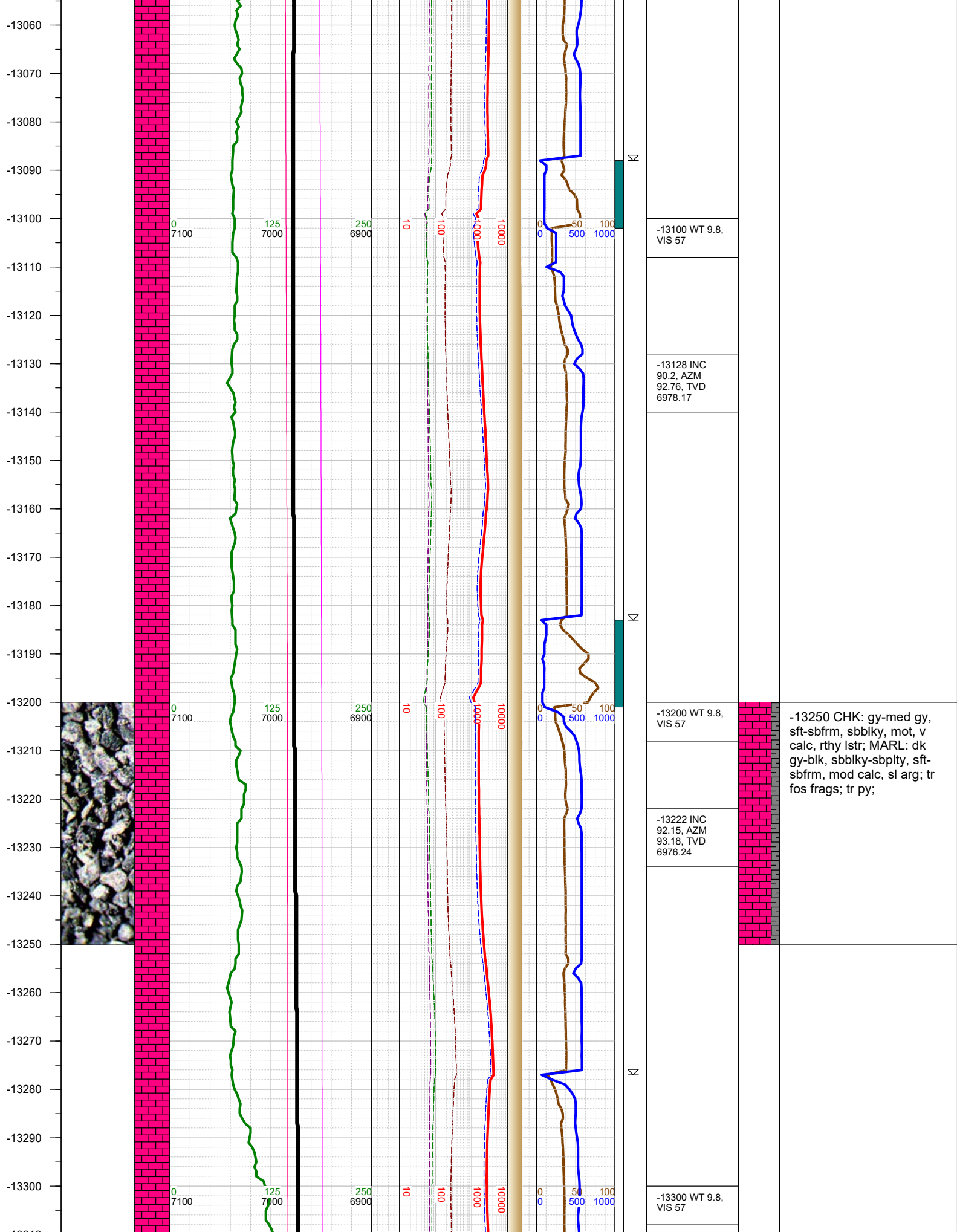


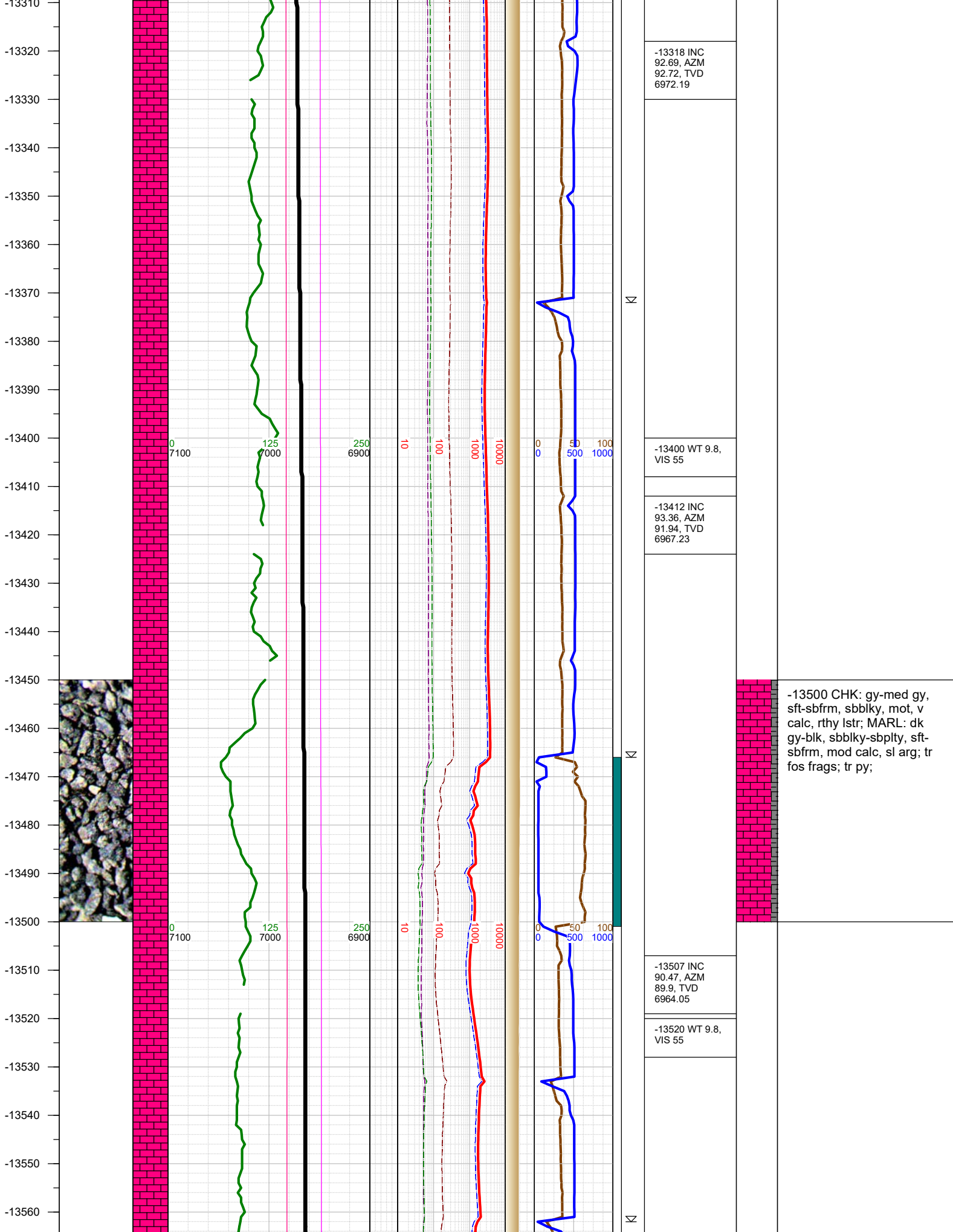
	-12547 Fault: 16' up-throw; stayed in C Chalk
	-12556 INC 89.02, AZM 90.88, TVD 6967.18
	-12600 WT 9.7, VIS 56
	-12651 INC 88.89, AZM 90.11, TVD 6968.91
	-12700 WT 9.7, VIS 56
	-12747 INC 88.69, AZM 89.69, TVD 6970.94



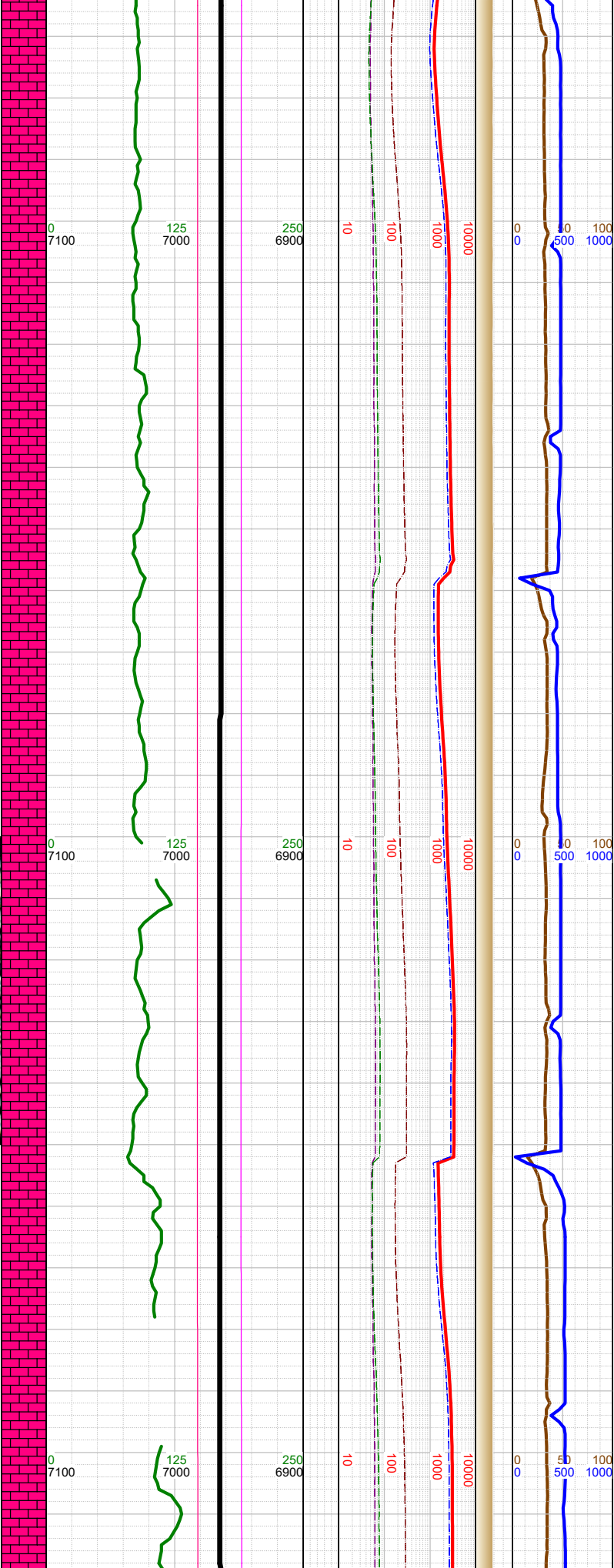
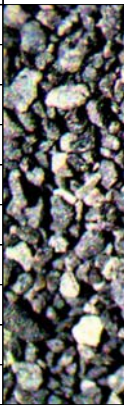
-12750 CHK: gy-med gy,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg; tr
forams; tr fos frags; tr py;







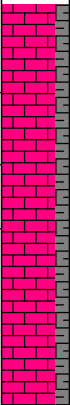
-13570
-13580
-13590
-13600
-13610
-13620
-13630
-13640
-13650
-13660
-13670
-13680
-13690
-13700
-13710
-13720
-13730
-13740
-13750
-13760
-13770
-13780
-13790
-13800
-13810



13

13

-13603 INC 89.66, AZM 88.74, TVD 6963.94
-13620 WT 9.8, VIS 55
-13699 INC 89.53, AZM 88.25, TVD 6964.62
-13720 WT 9.8, VIS 55
-13794 INC 90.34, AZM 87.69, TVD 6964.73
-13810 WT 9.8, VIS 55



-13750 CHK: gy-med gy,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, mod calc, sl arg; tr
fos frags; tr py;

