

OPERATOR: **Extraction Oil & Gas**
WELL NAME: **Coyote Trails 33S-20-6N**

FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Ensign 147
API #: 05-123-45996

LAT/LONG: 40.017975, -105.00696
SURFACE HOLE: SWSE S28-T1N-R68W, 1147' FSL, 2211' FEL
BOTTOM HOLE: S4-T1N-R68W, 150' FSL, 1632' FEL

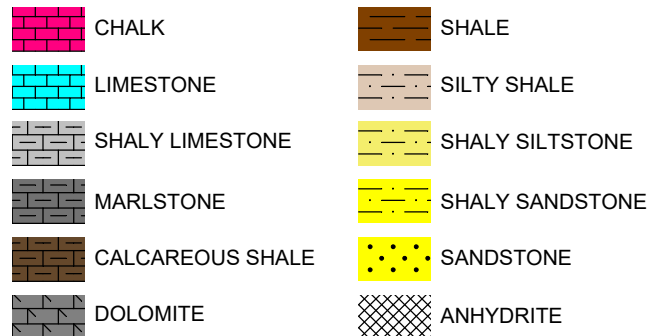


Earth Science Agency, LLC

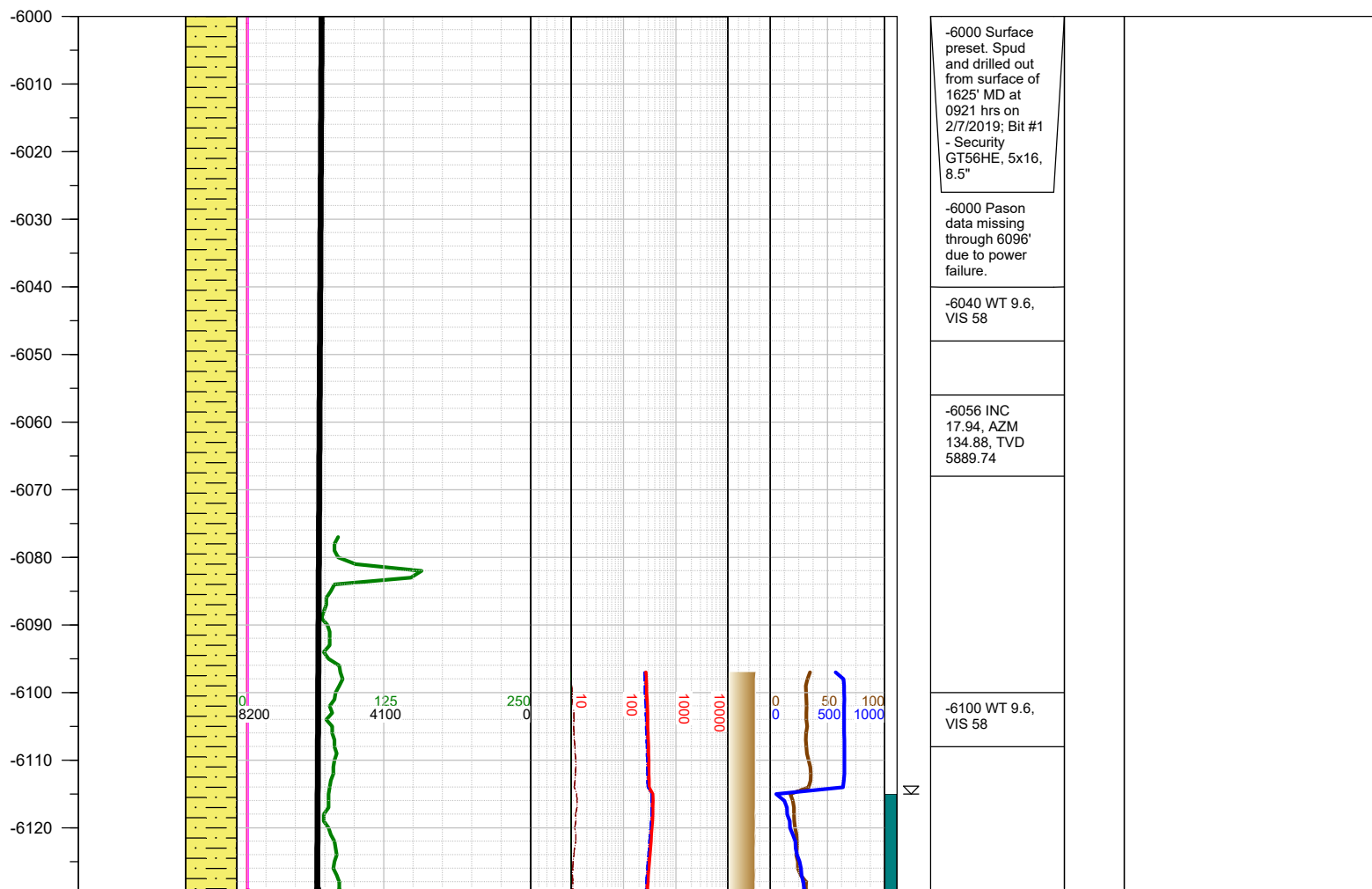
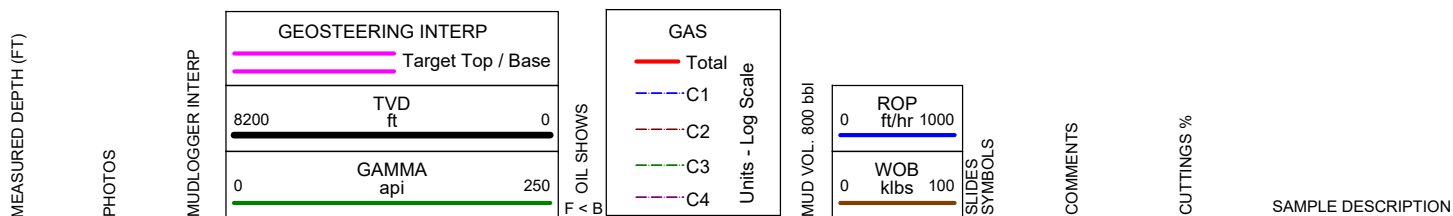
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 5242'
KELLY BUSHING: 5270'
DRILLING FLUID: OBM
TVD VS. MD: 7921' / 17961'
SPUD DATE: January 4, 2019
TD DATE: January 11, 2019

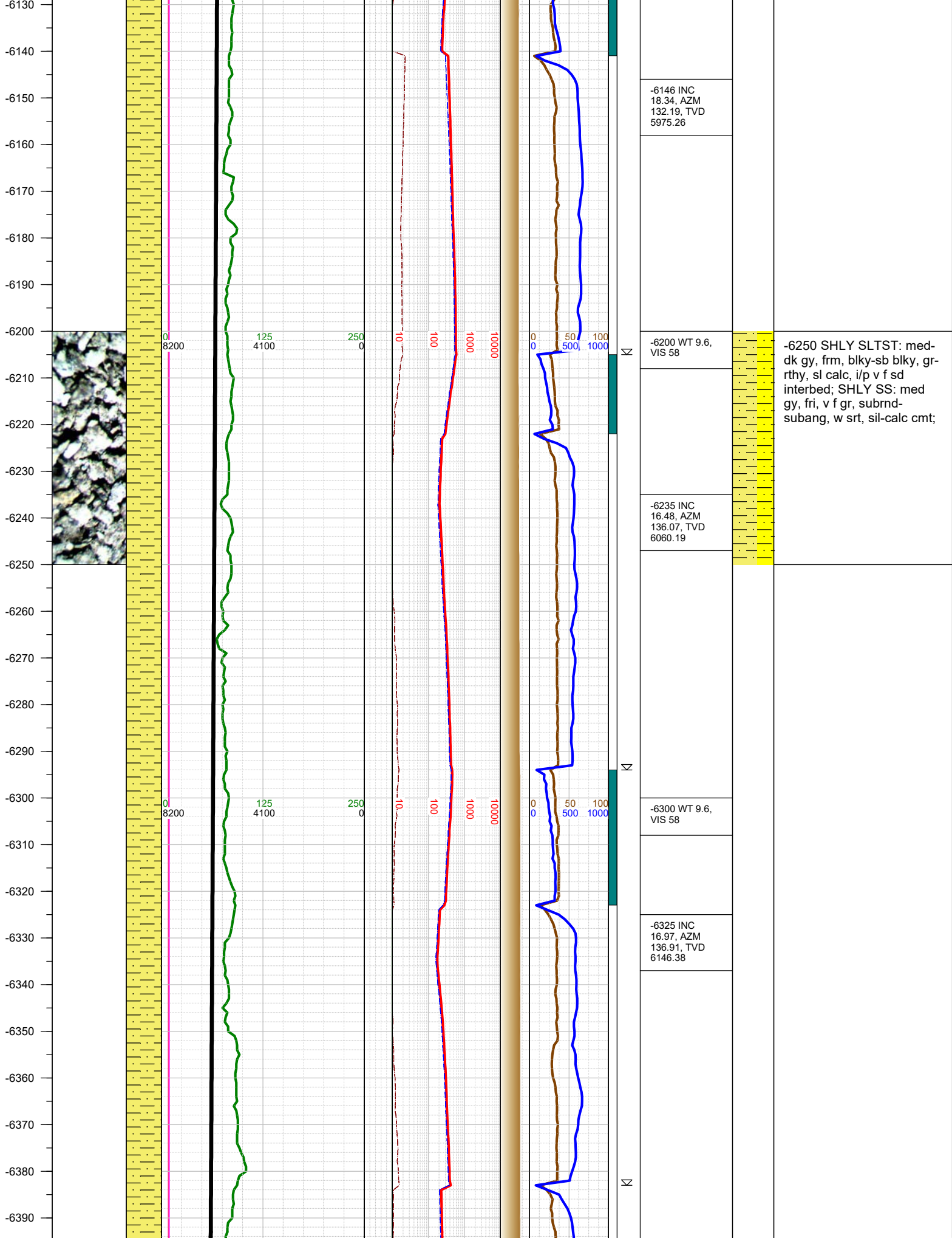
DEPTHS LOGGED: 6000' - 17961'
DATES LOGGED: January 7, 2019 - January 11, 2019
GEOLOGISTS: Kyle Newman, Dan Jacobs
SCALE: 5" = 100'

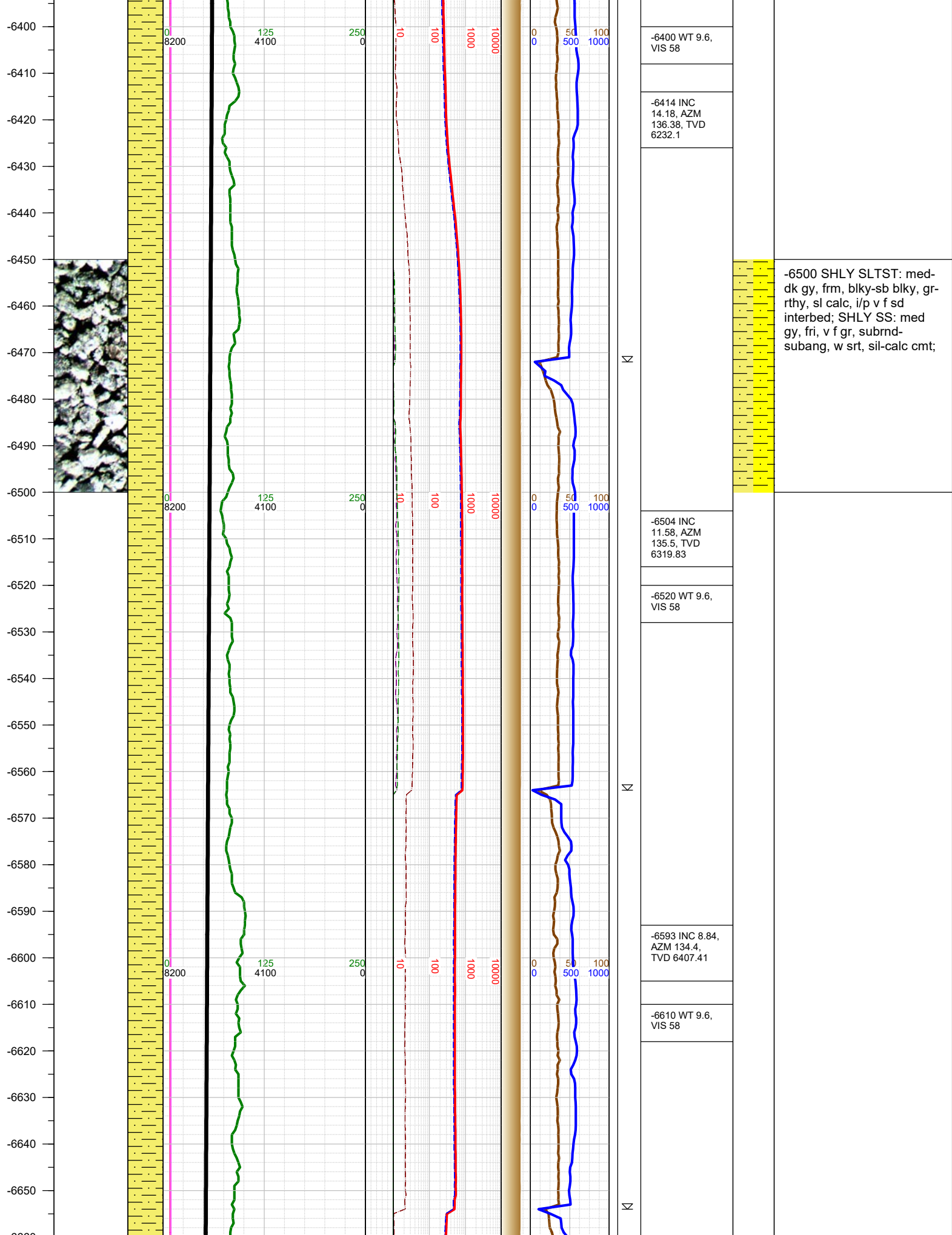
LEGEND

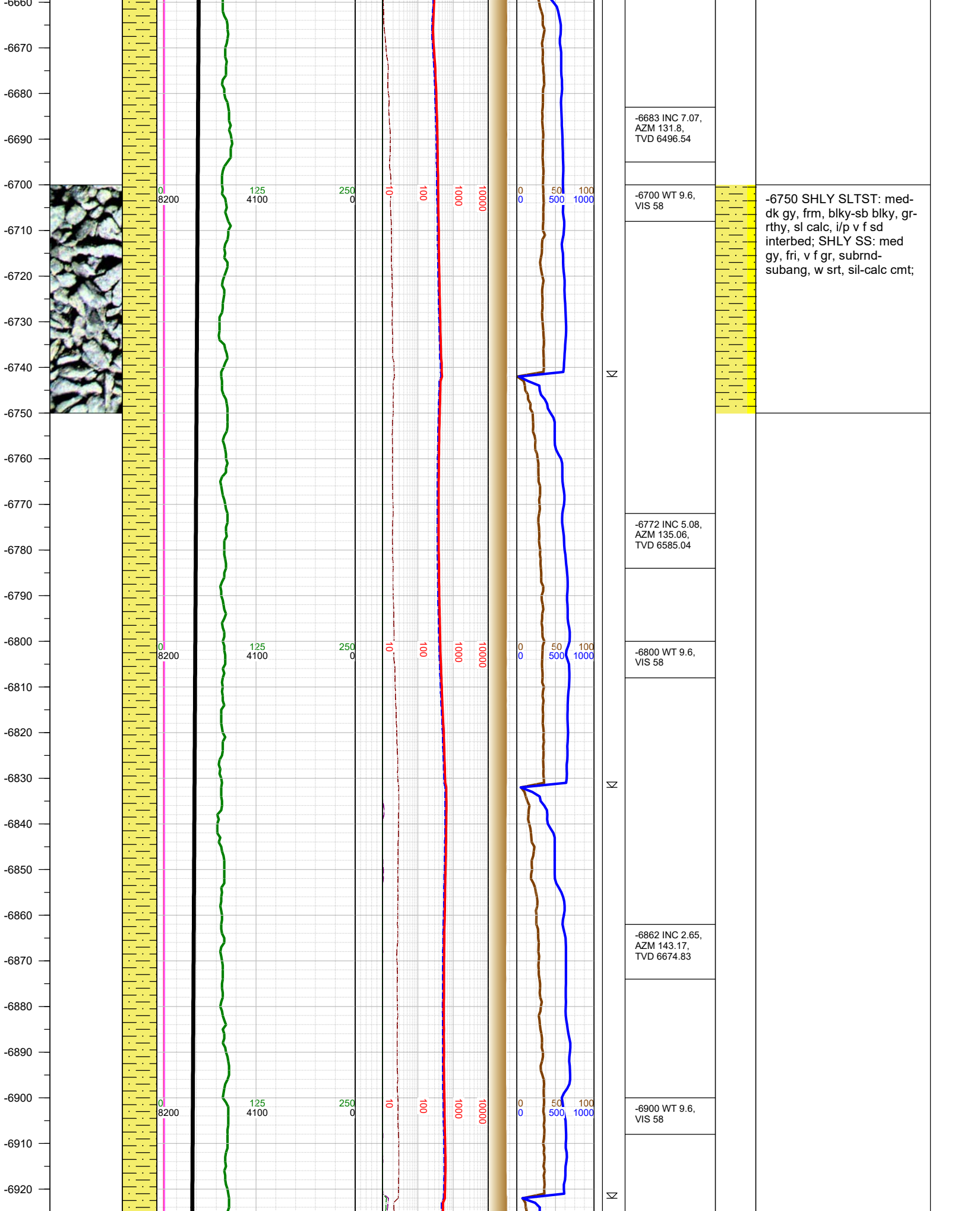


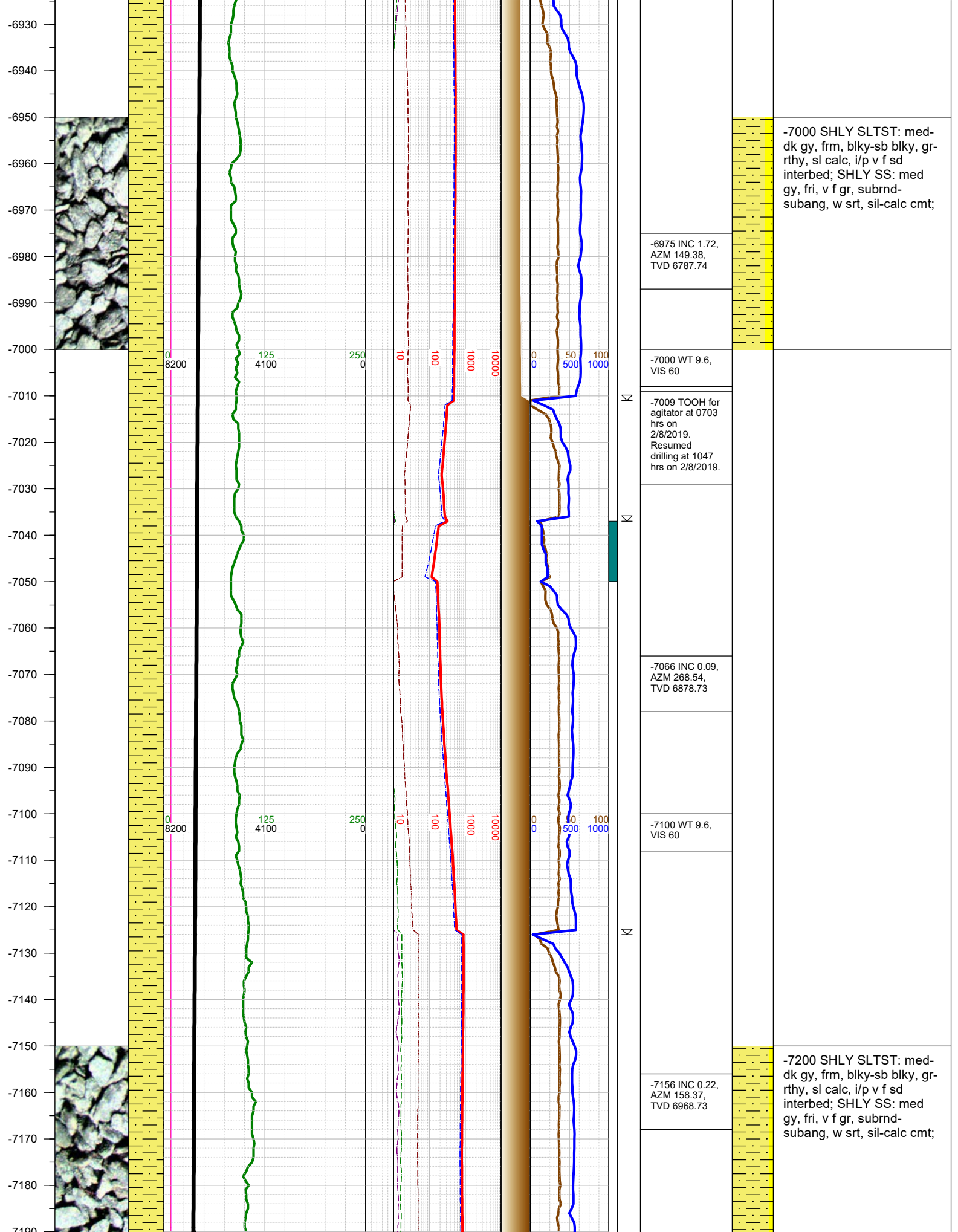
FORMATION \approx CONNECTION Δ MIDNIGHT NEW BIT GAS SHOW FAULT

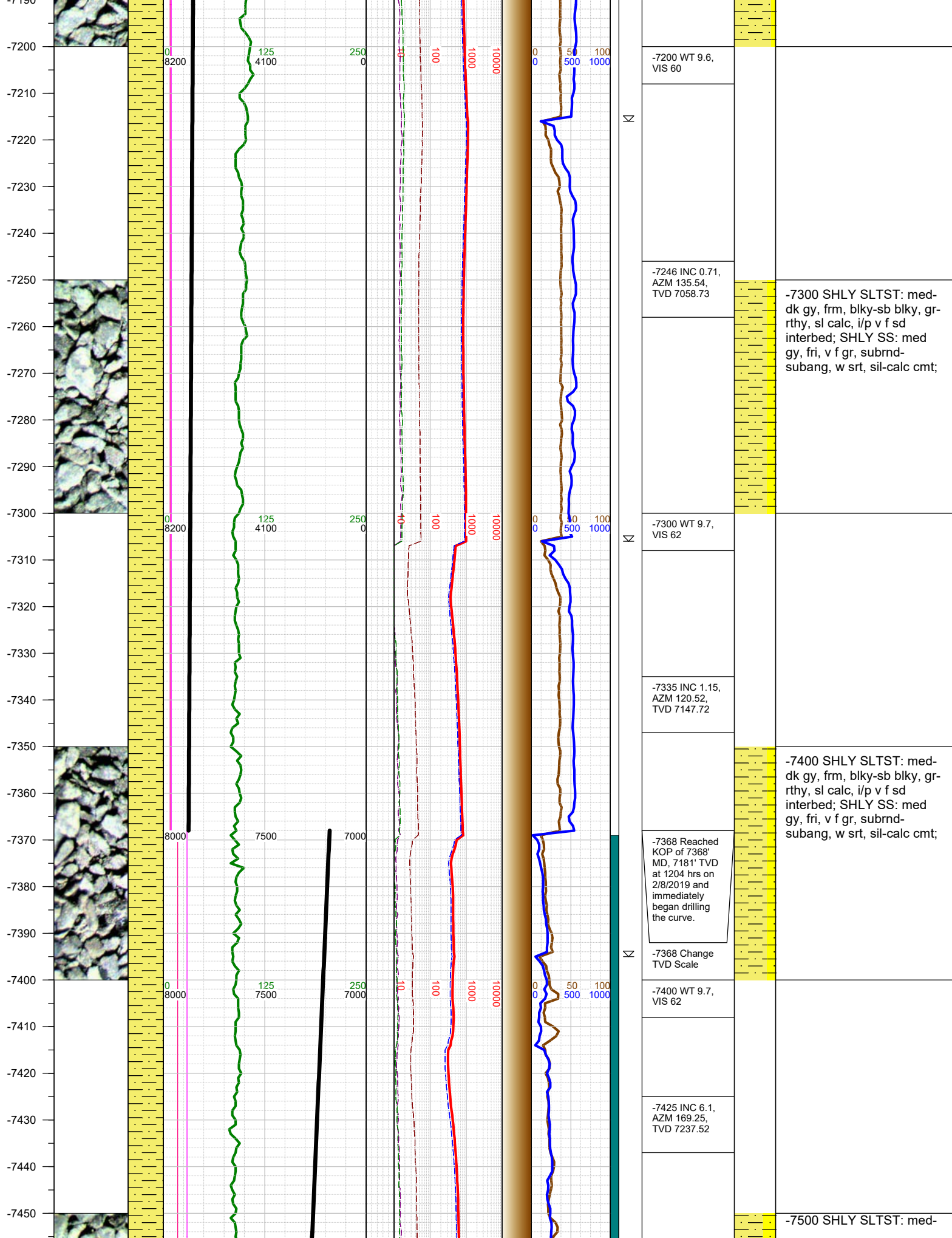


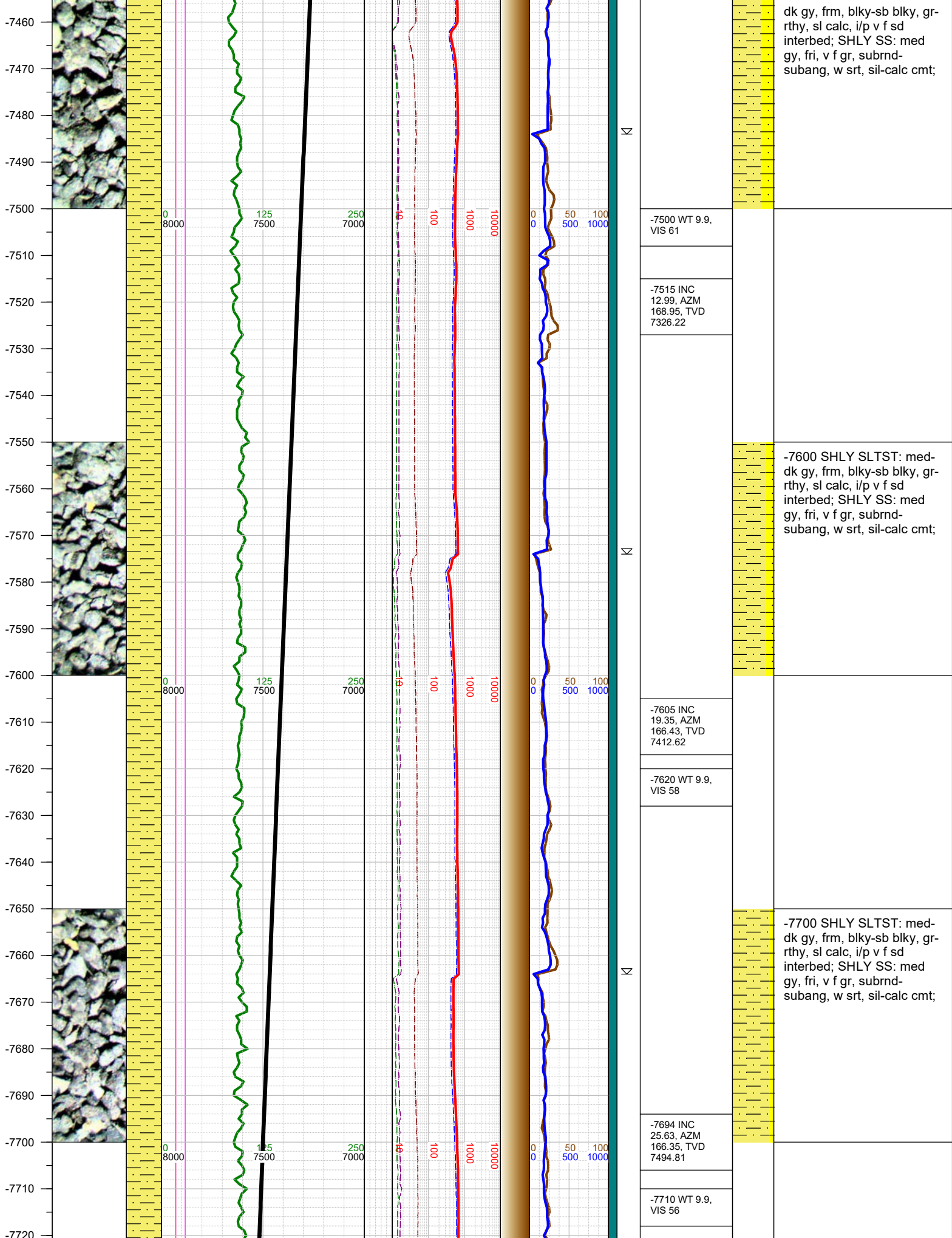


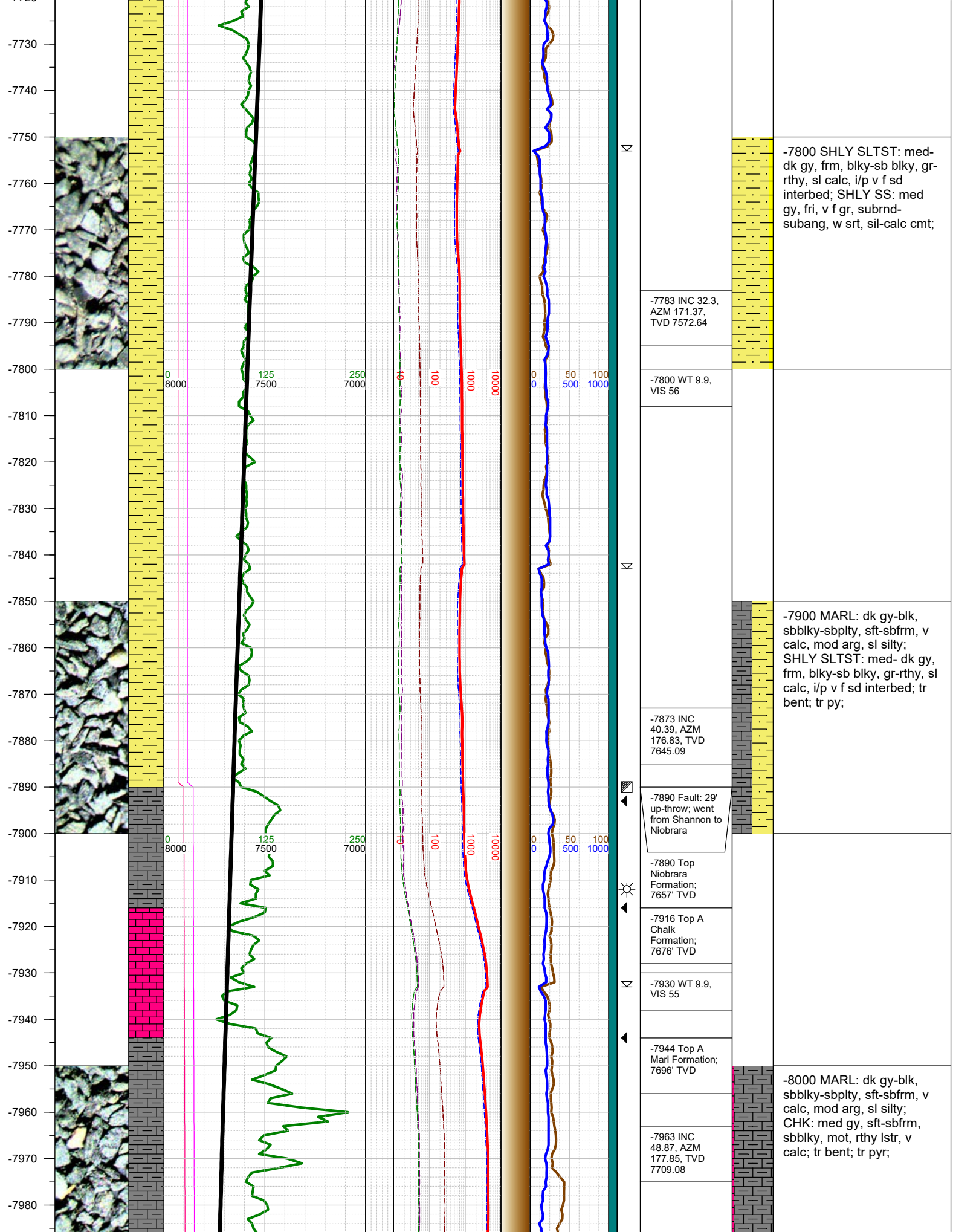


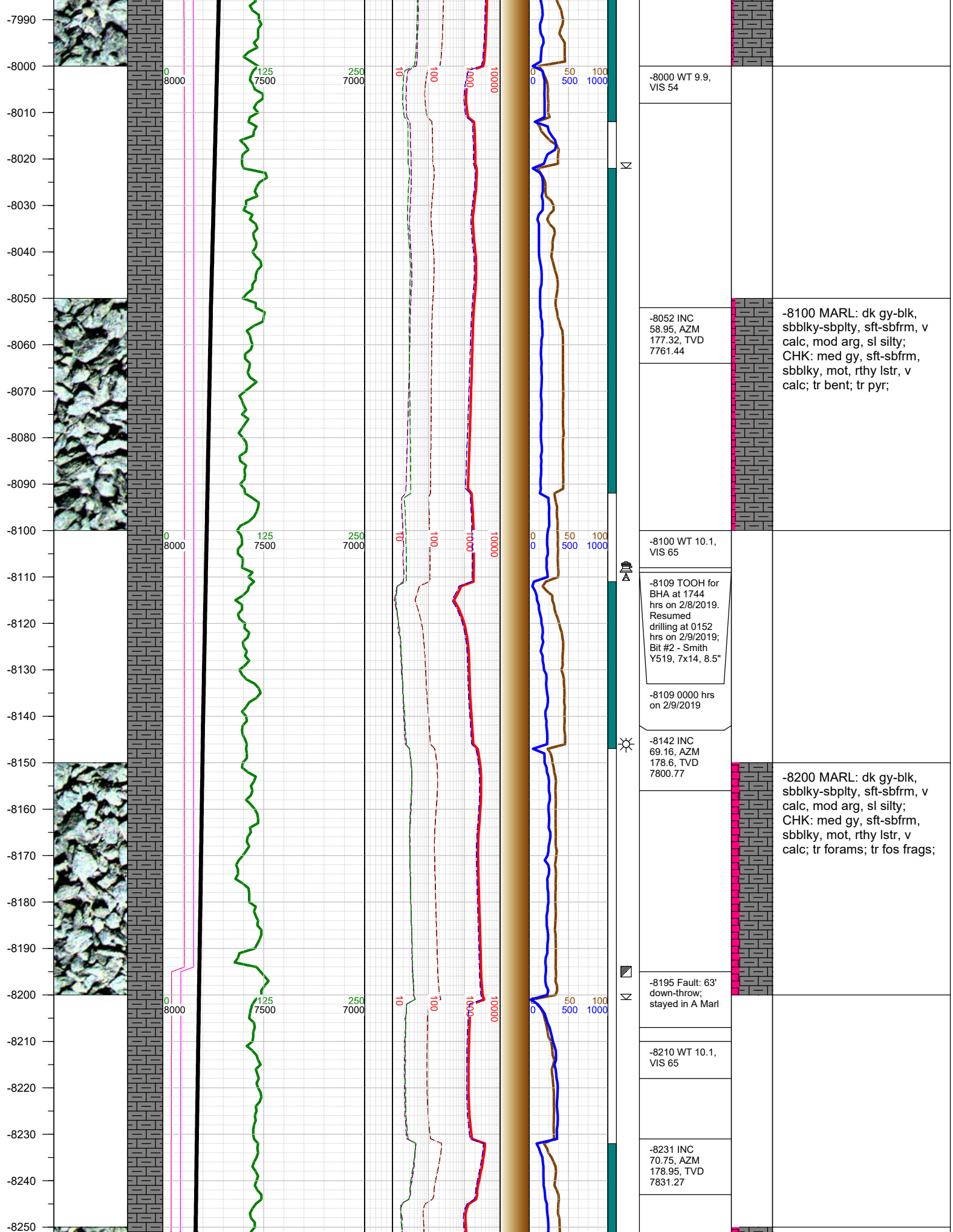


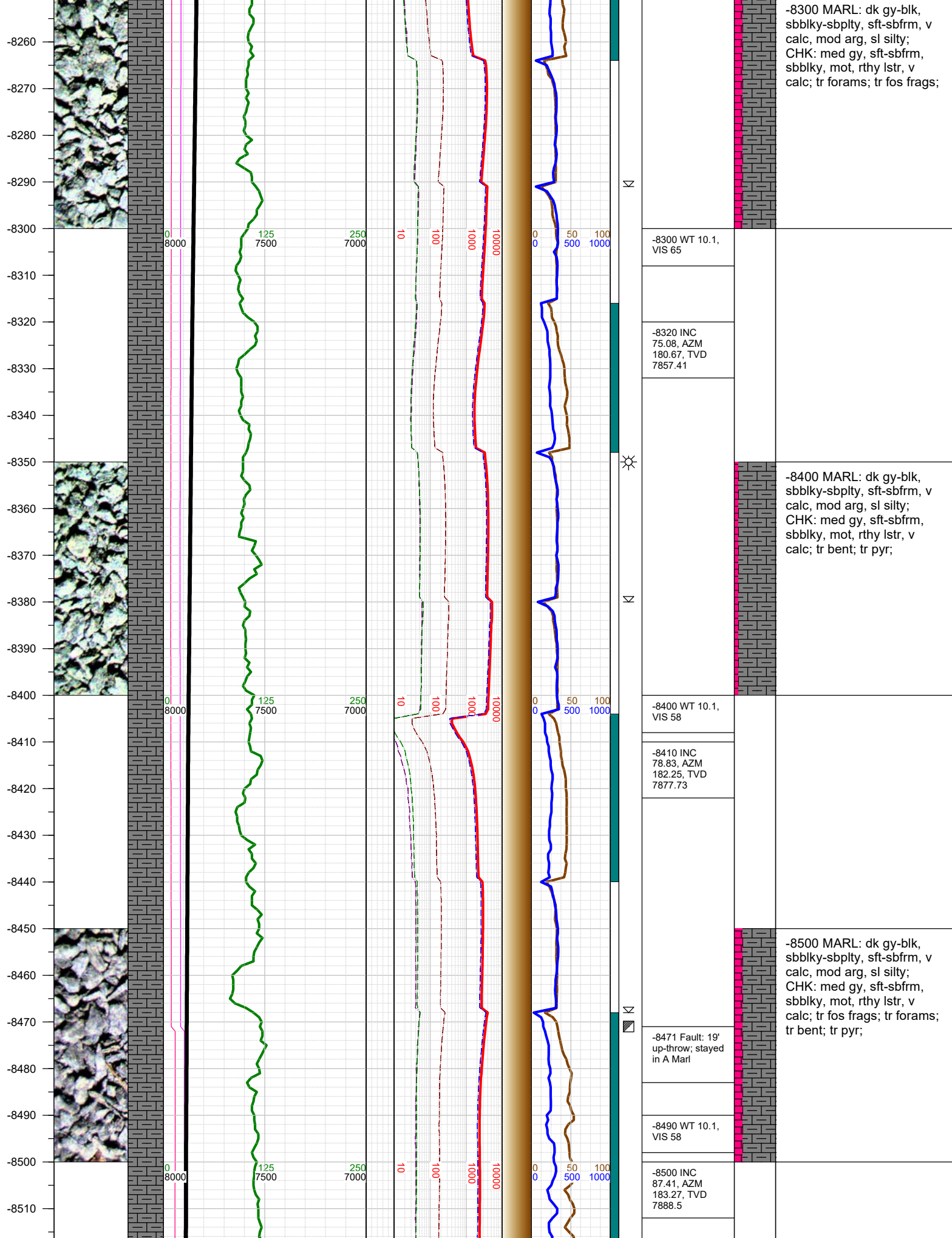


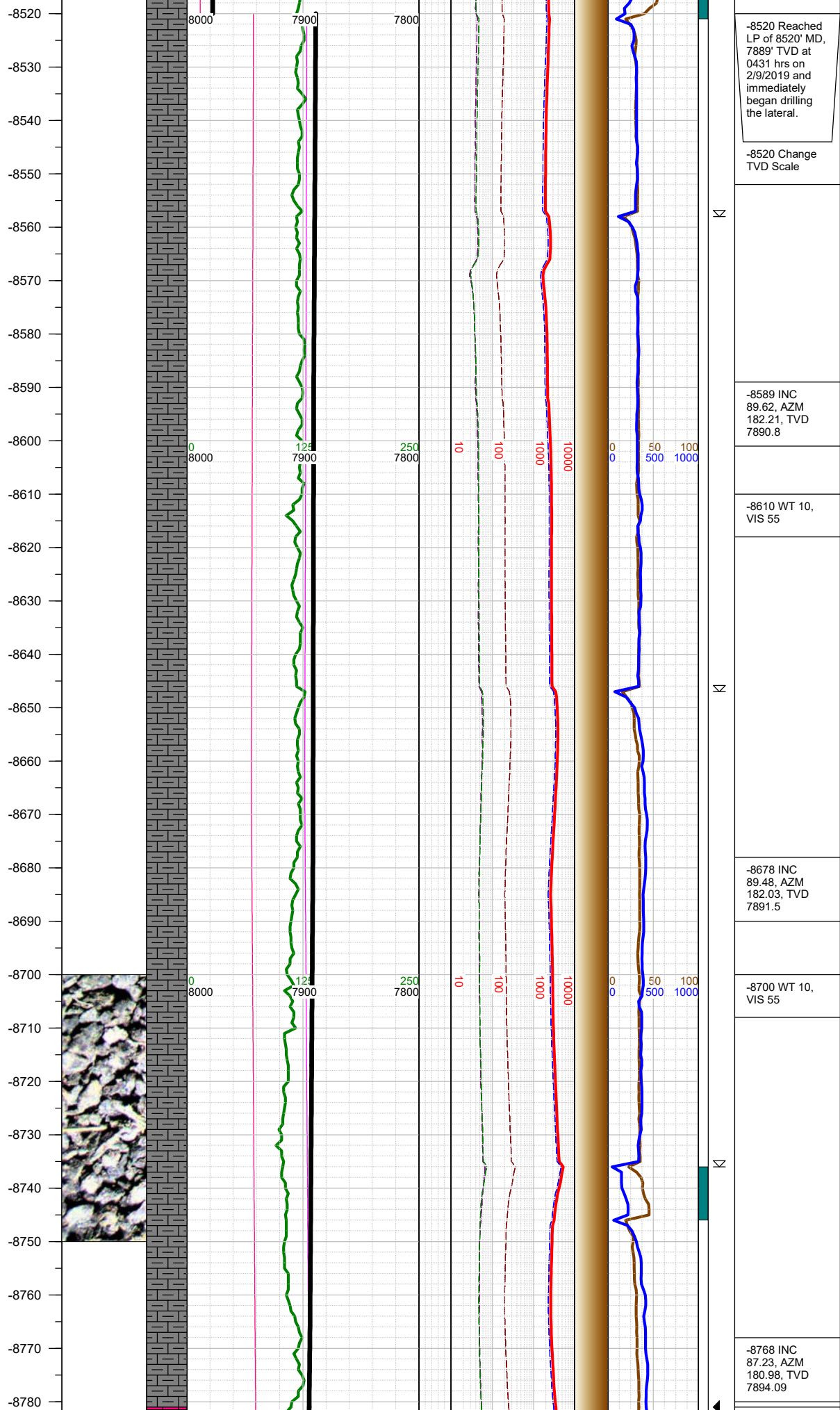












-8520 Reached LP of 8520' MD, 7889' TVD at 0431 hrs on 2/9/2019 and immediately began drilling the lateral.

-8520 Change TVD Scale

-8589 INC 89.62, AZM 182.21, TVD 7890.8

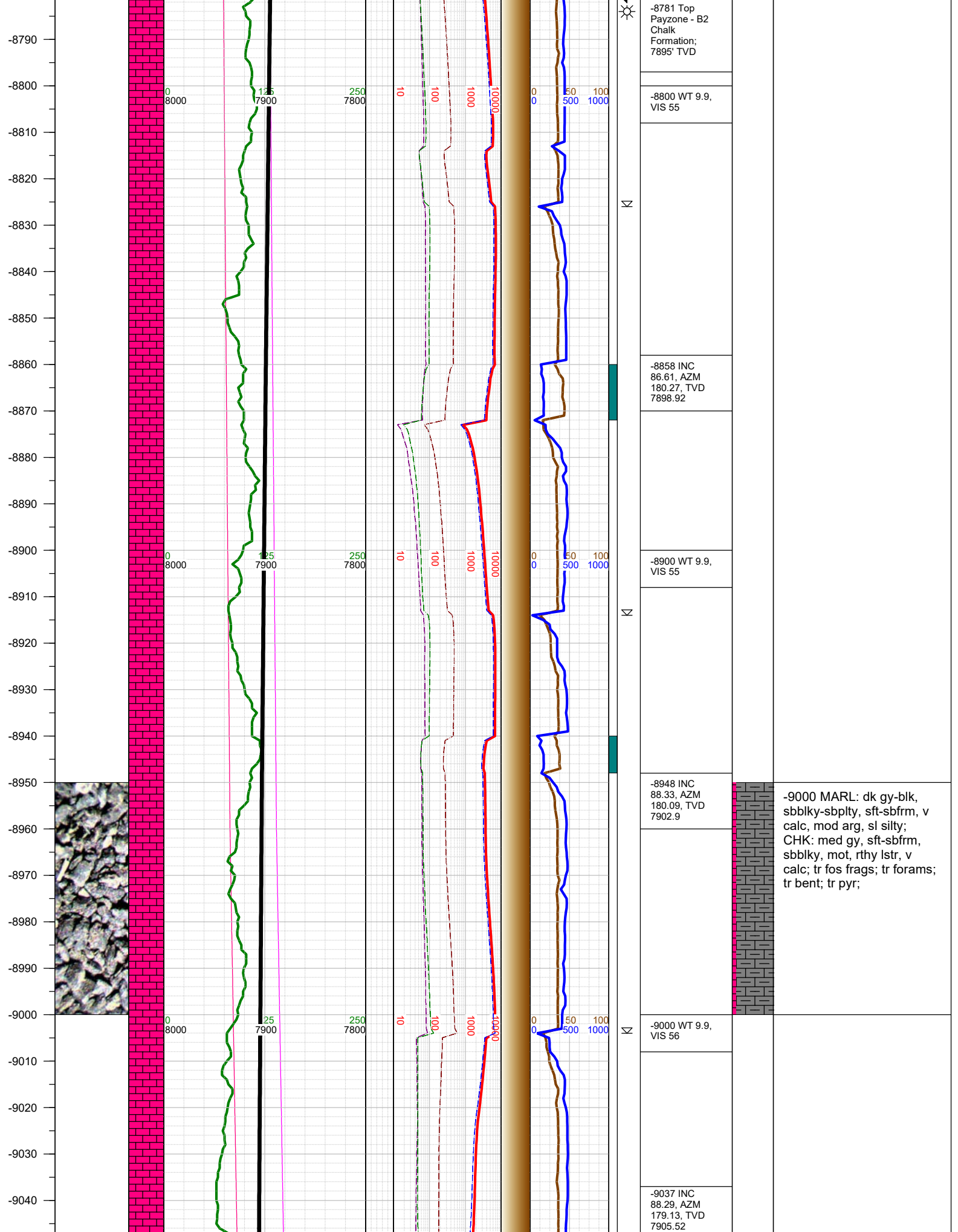
-8610 WT 10, VIS 55

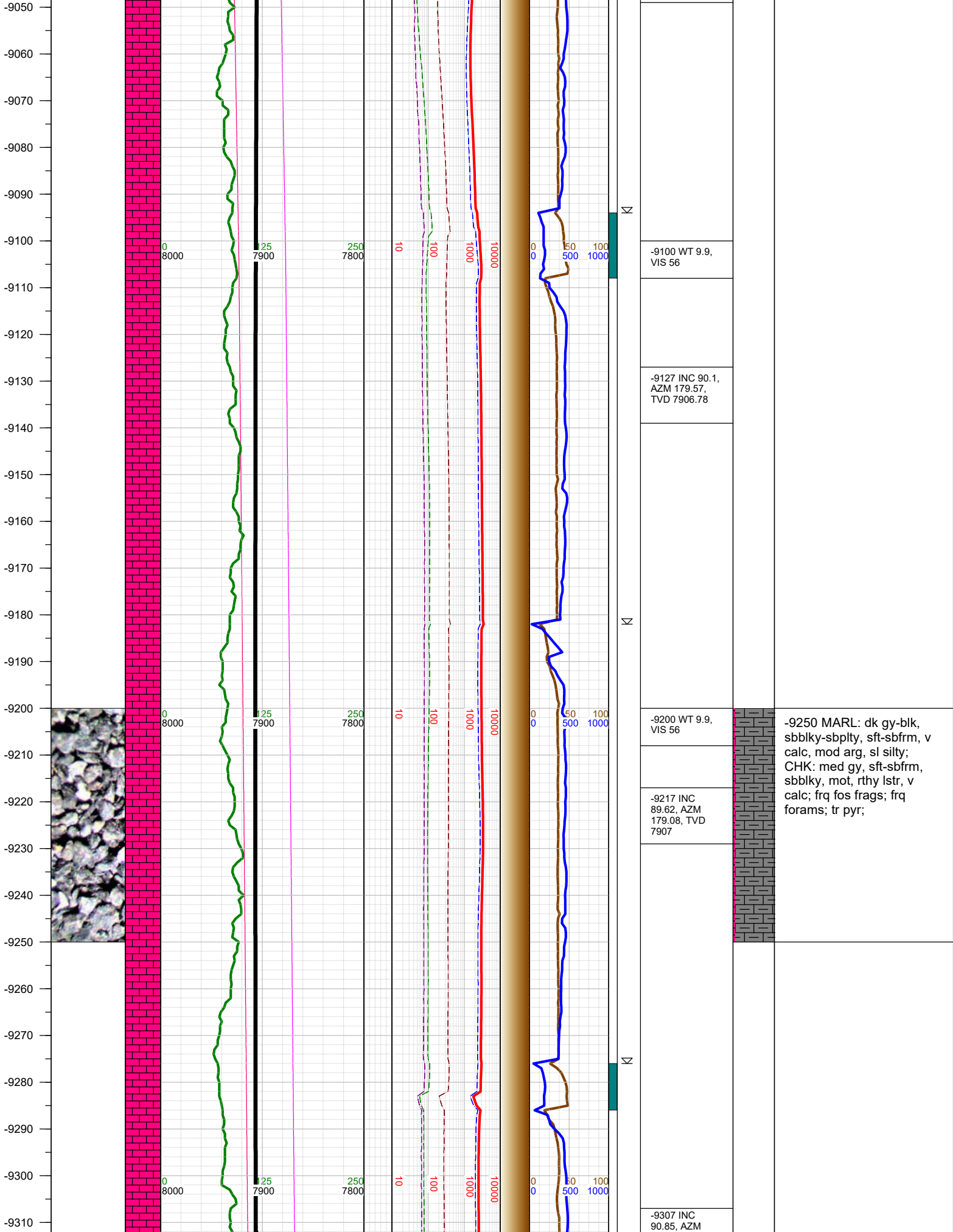
-8678 INC 89.48, AZM 182.03, TVD 7891.5

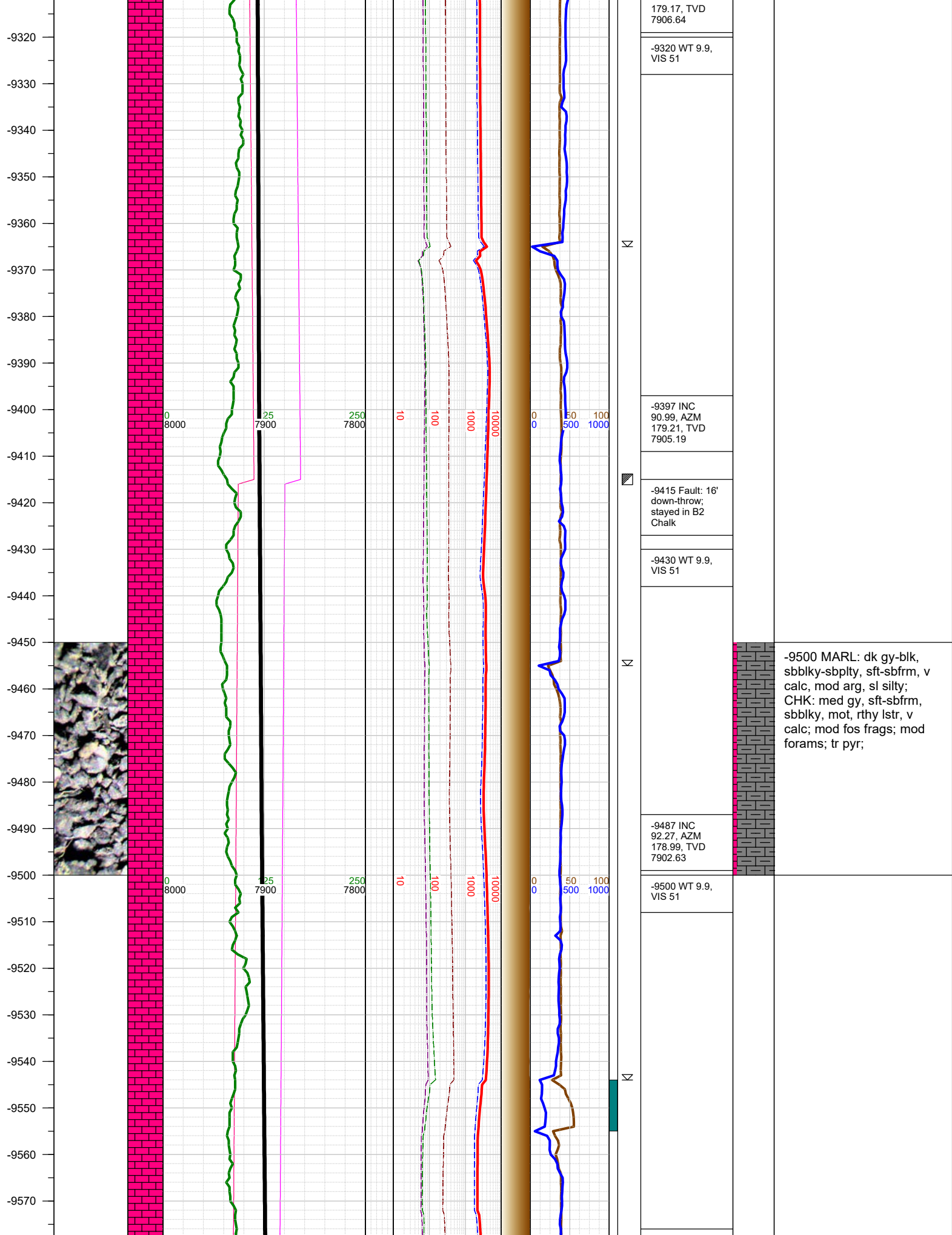
-8700 WT 10, VIS 55

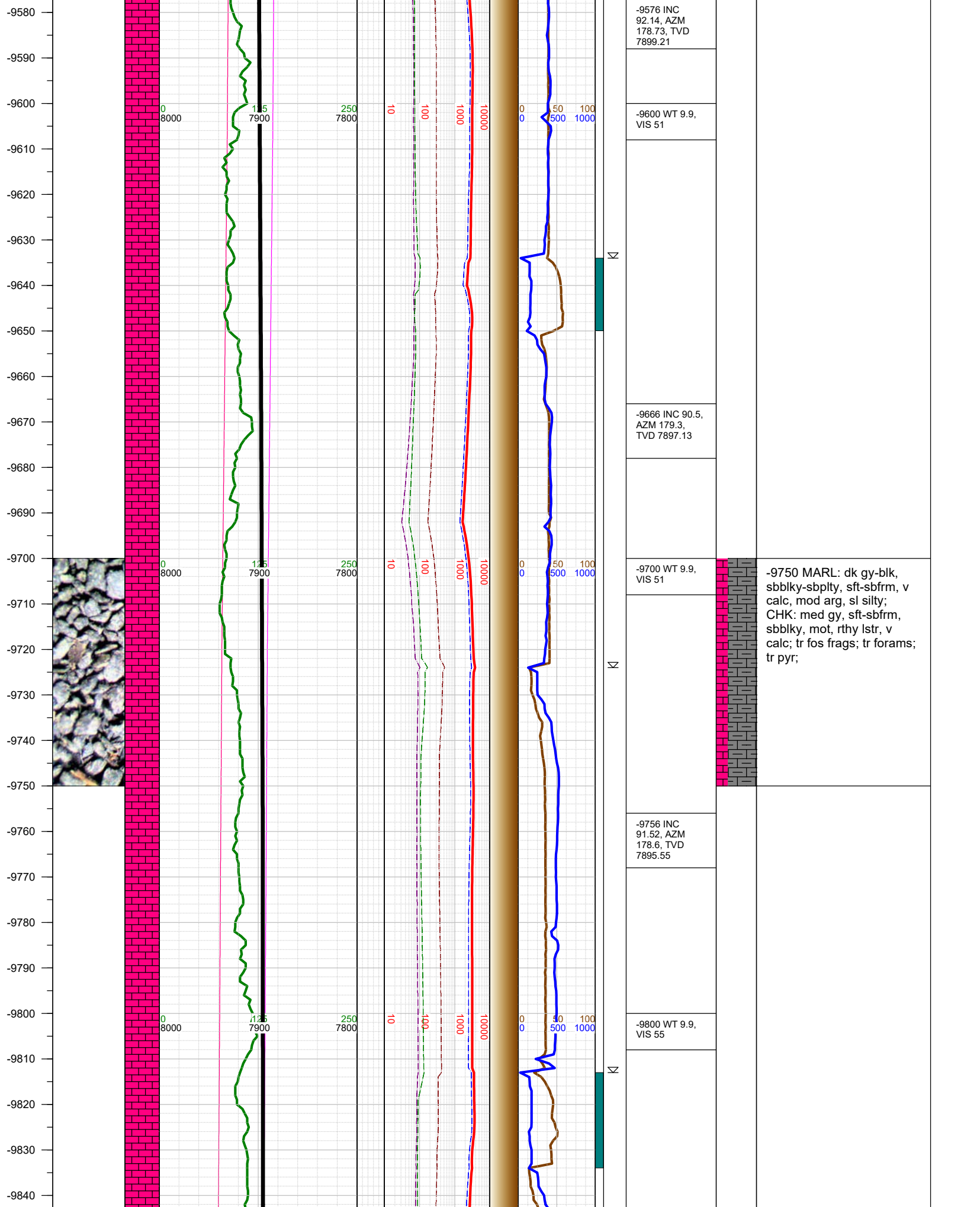
-8768 INC 87.23, AZM 180.98, TVD 7894.09

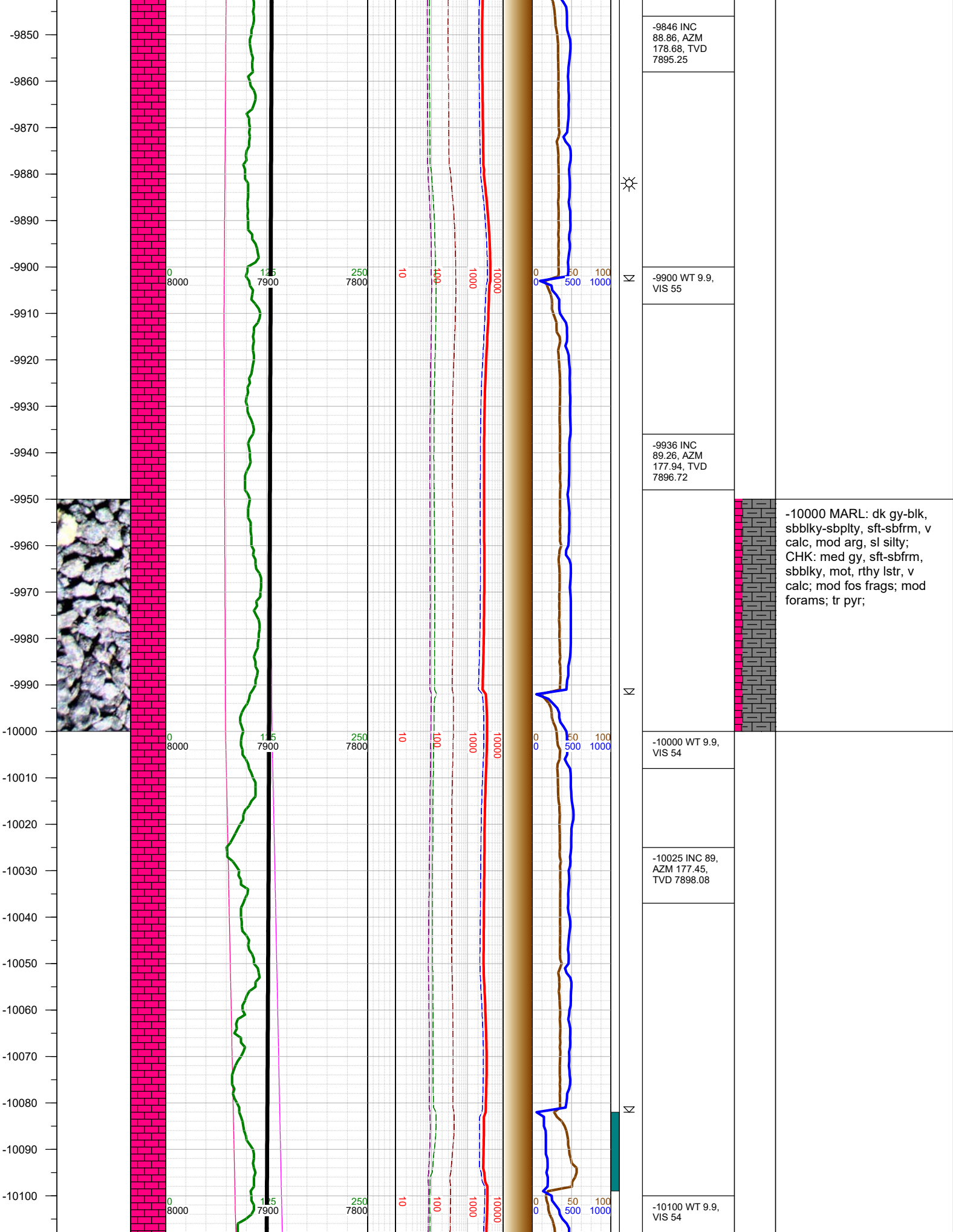
-8750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr fos frags; tr forams; tr bent; tr pyr;

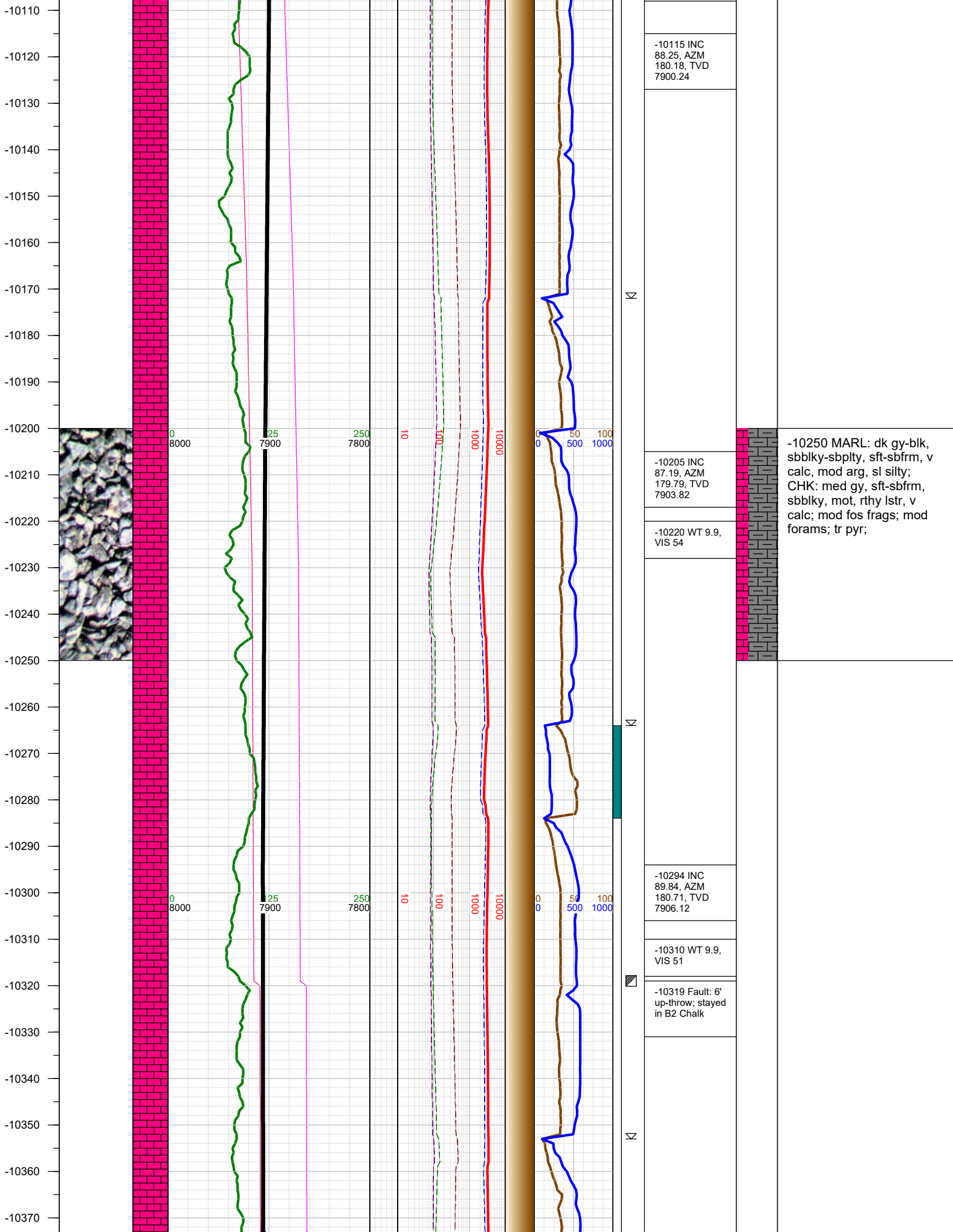


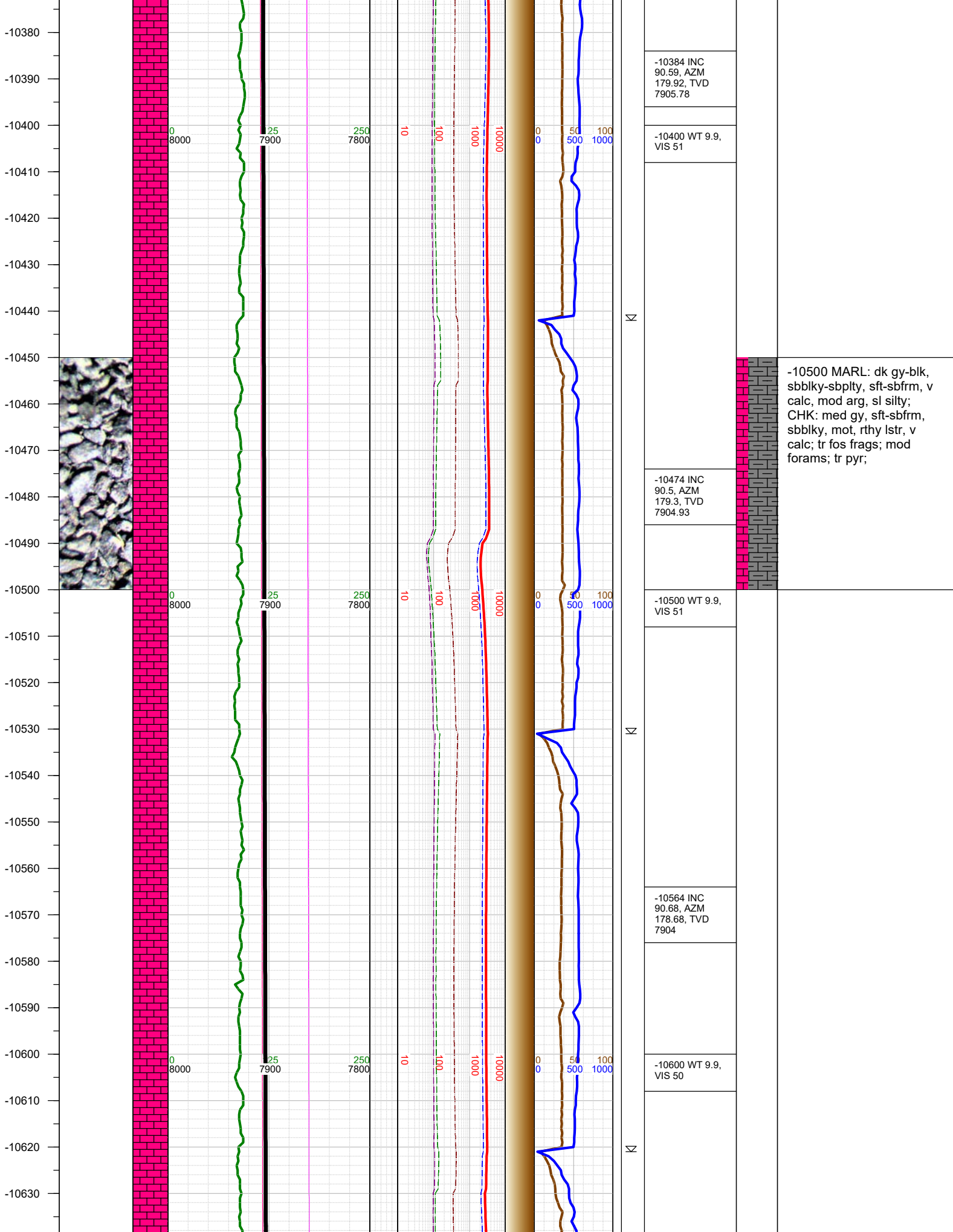


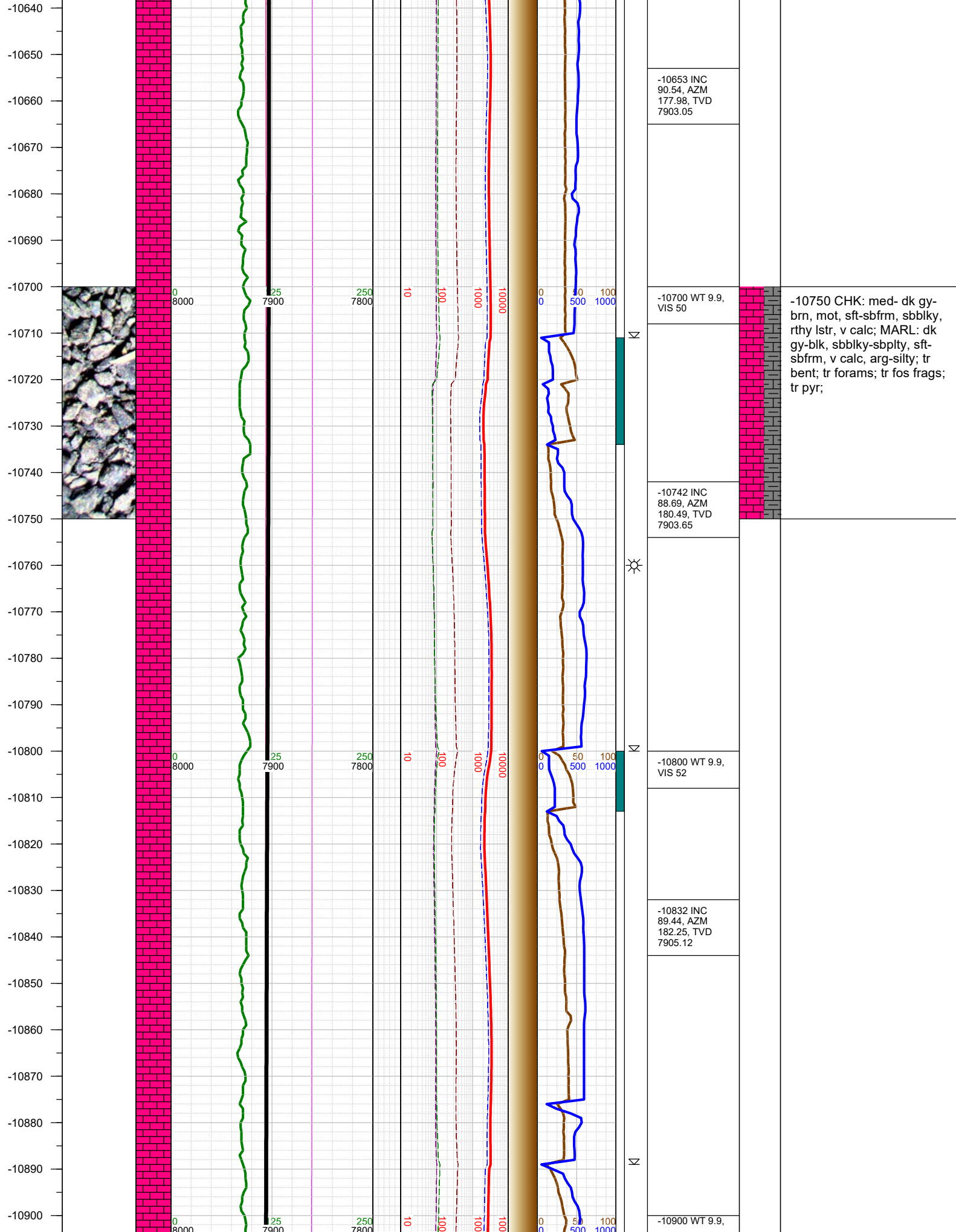


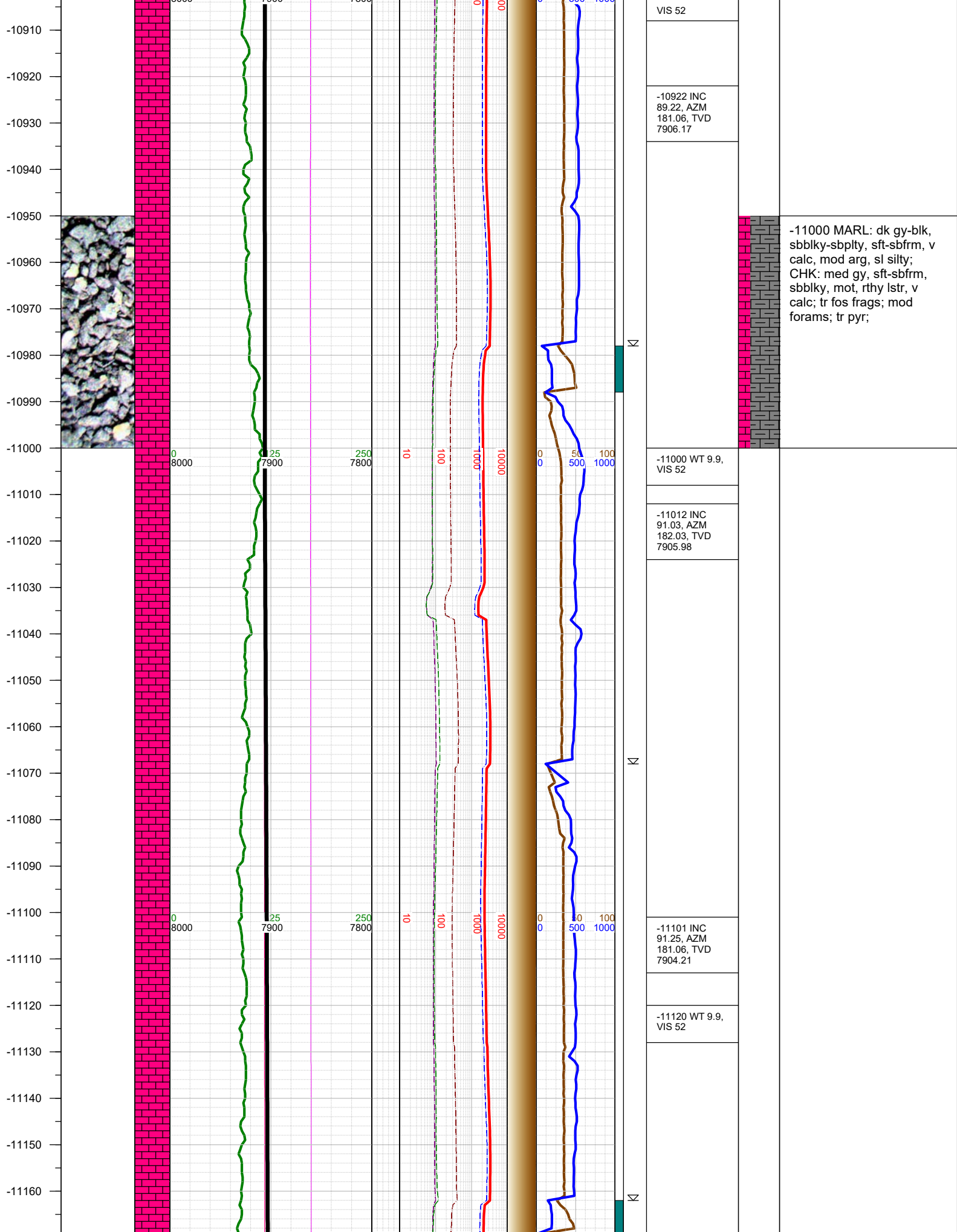


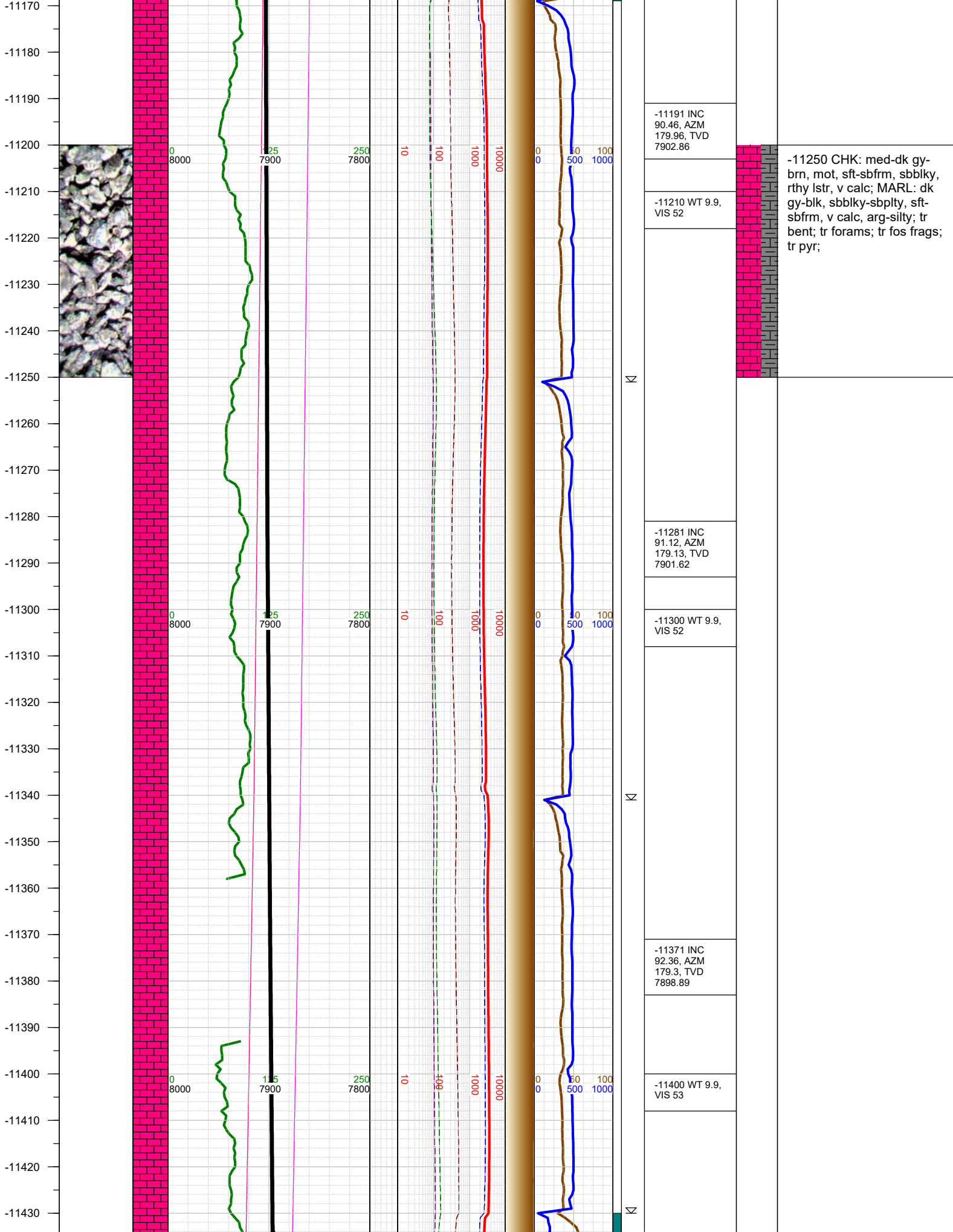


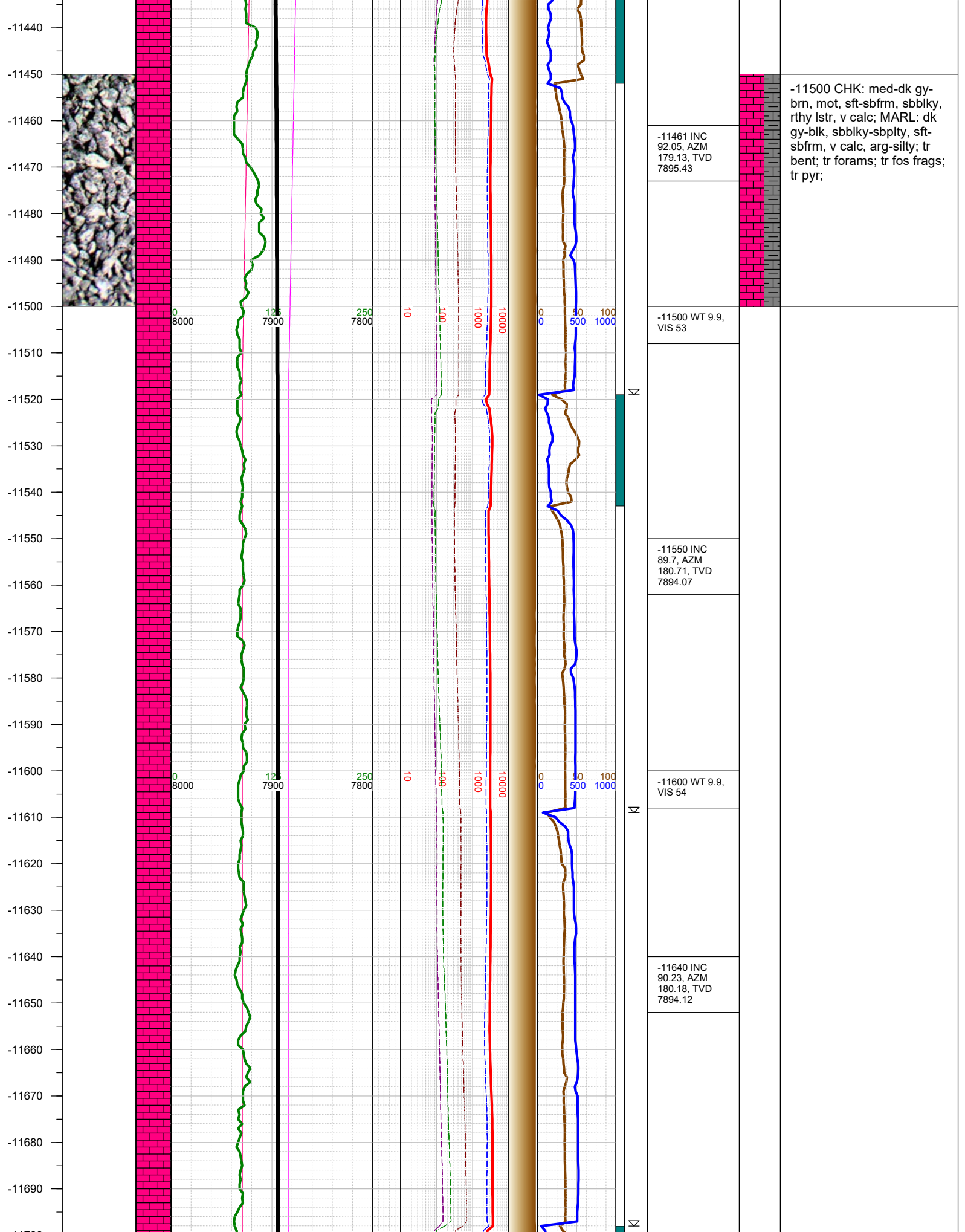


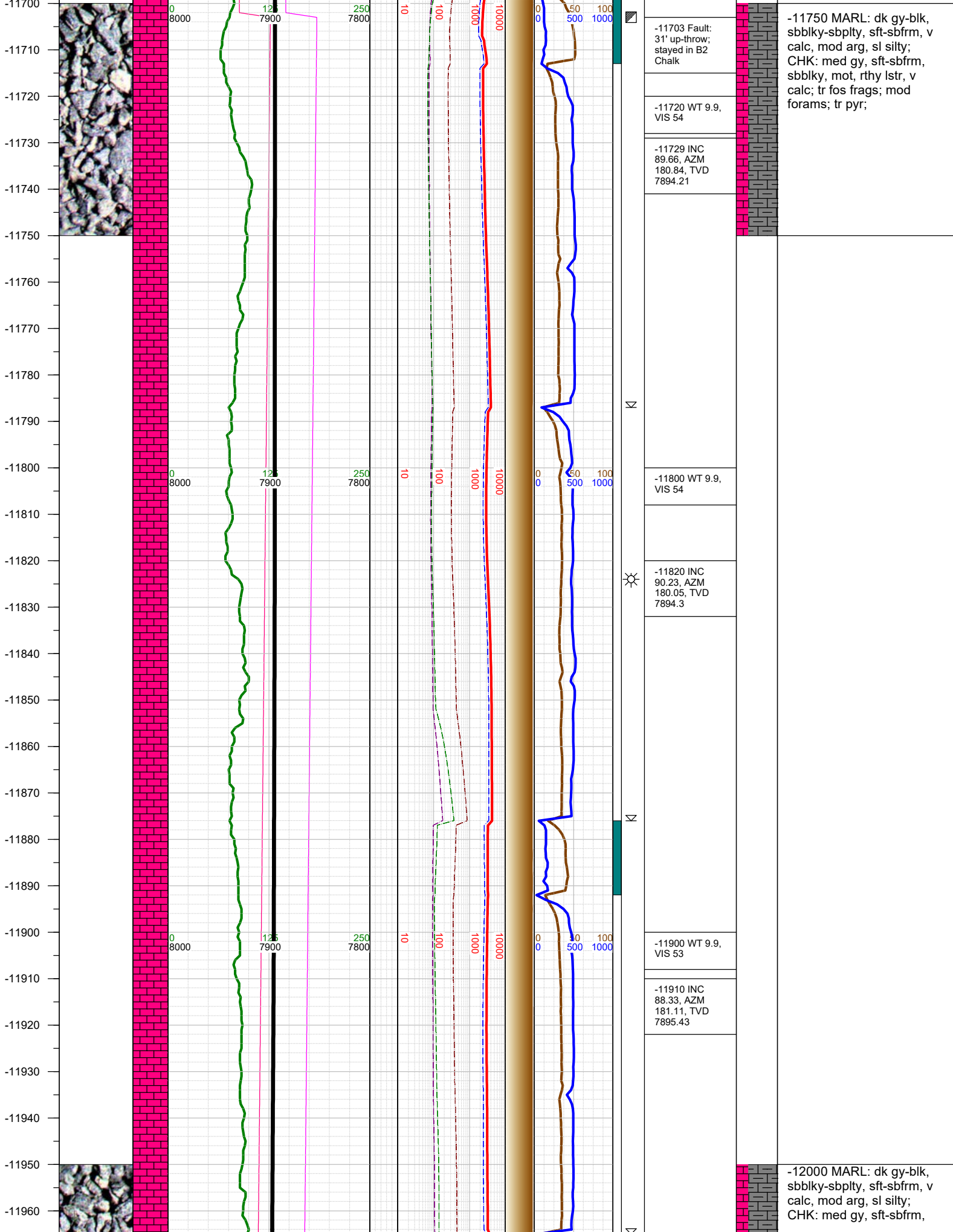


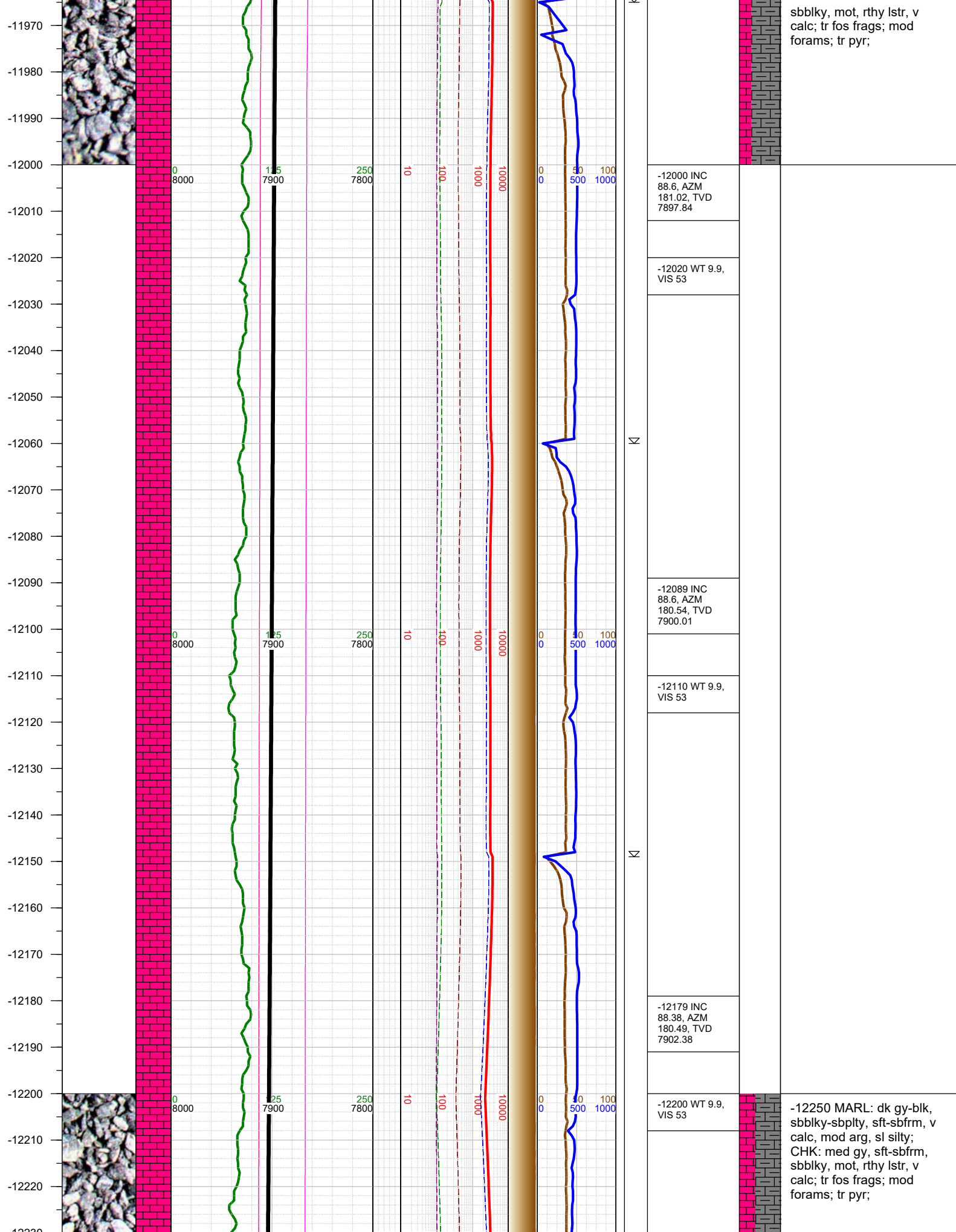


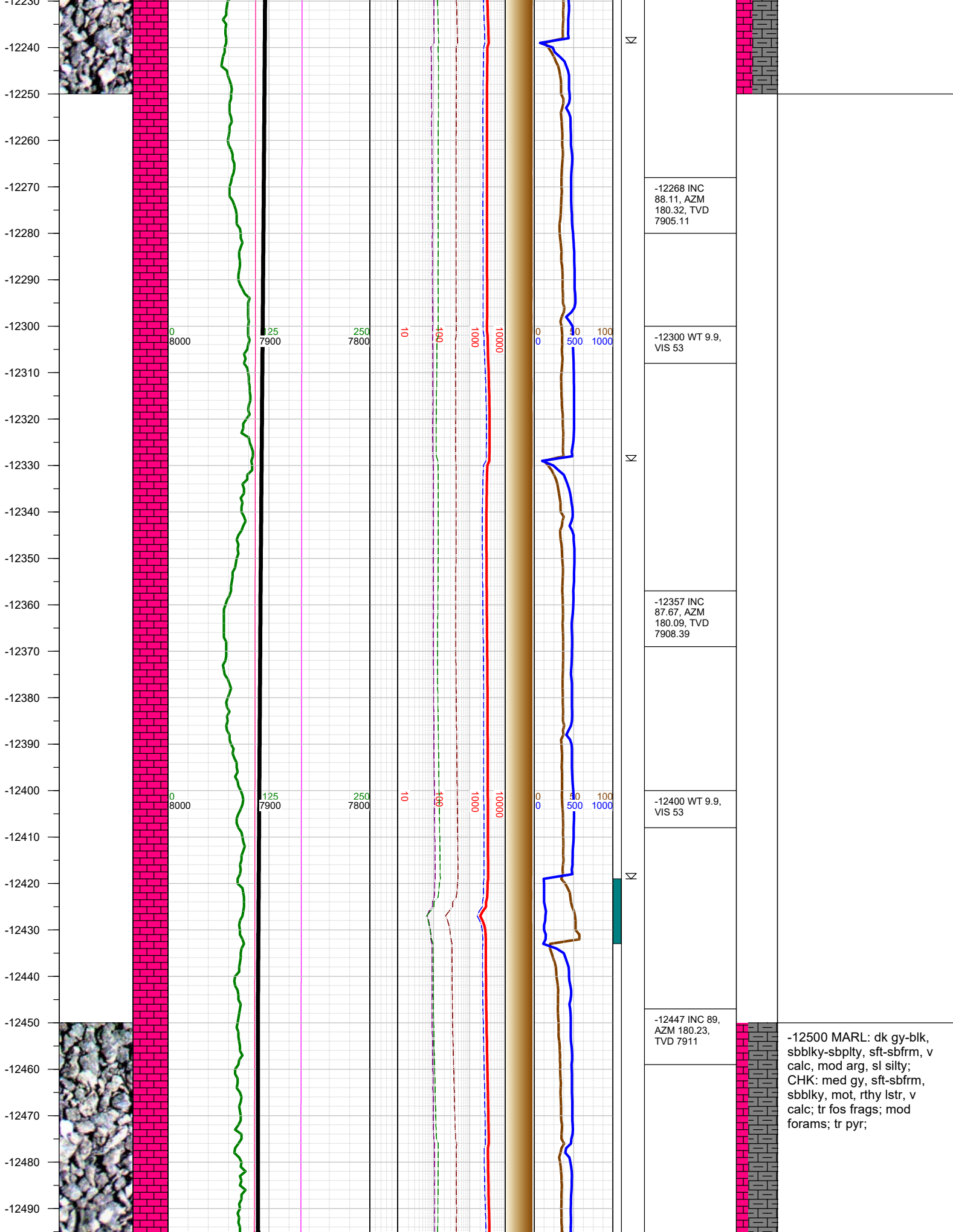


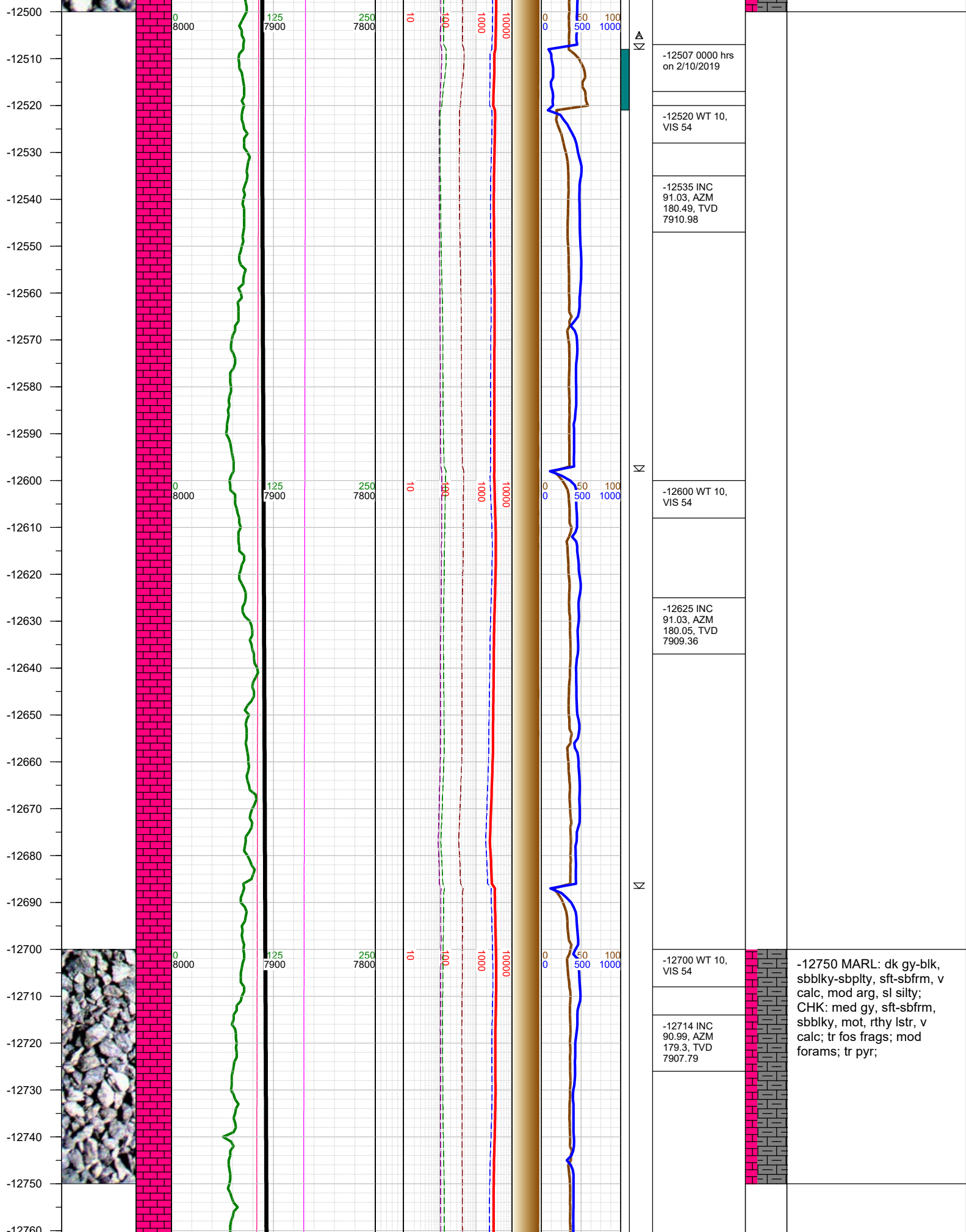


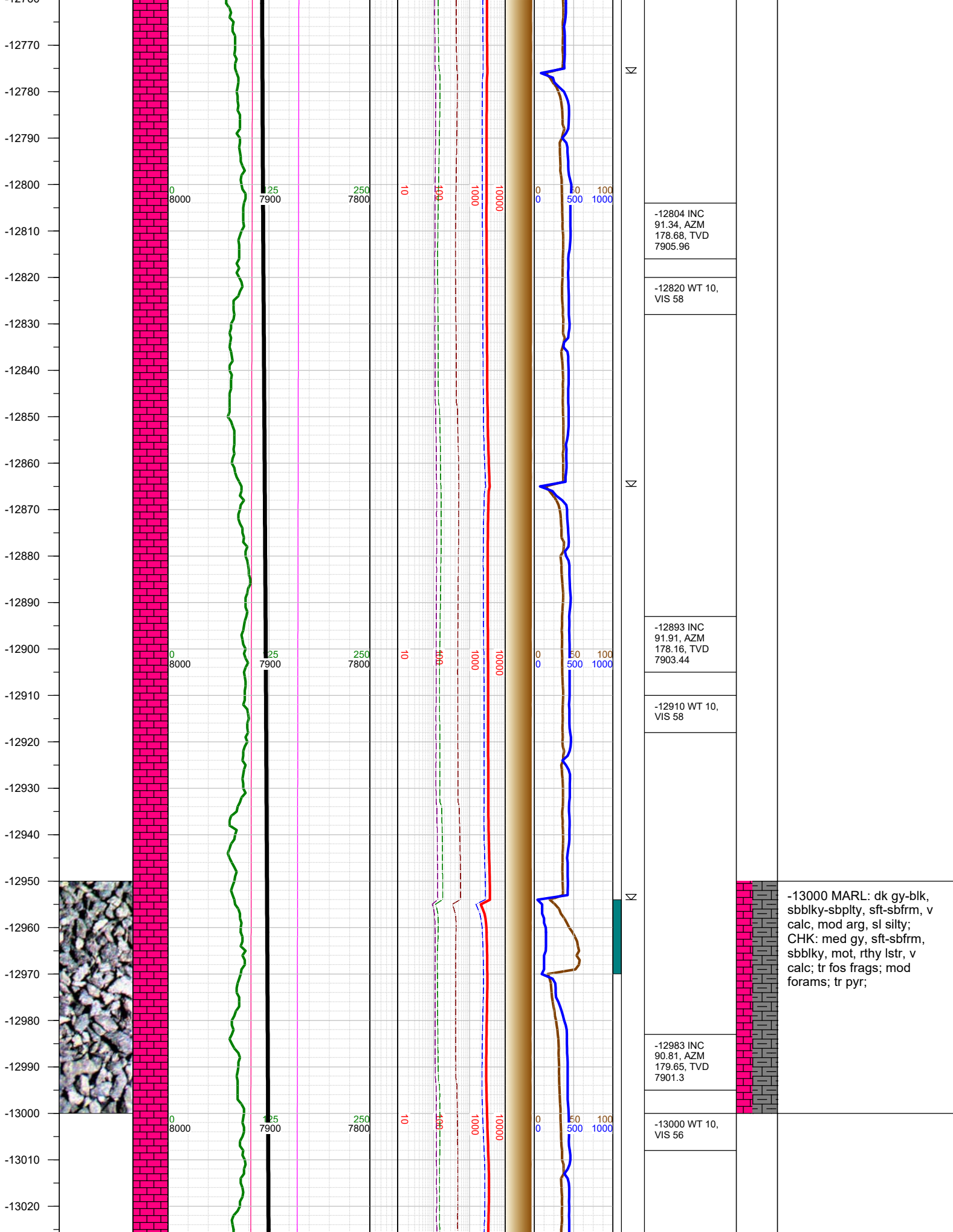


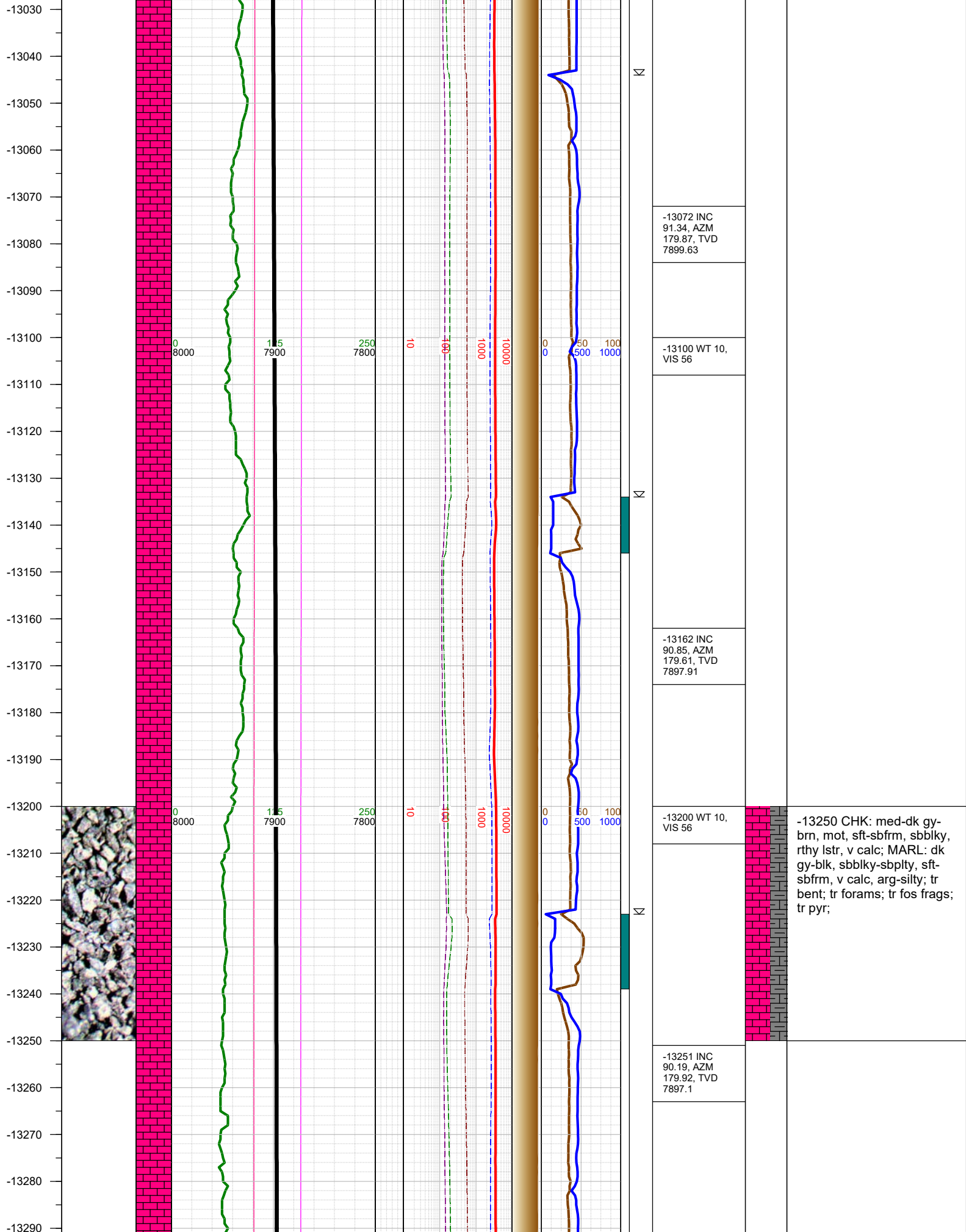




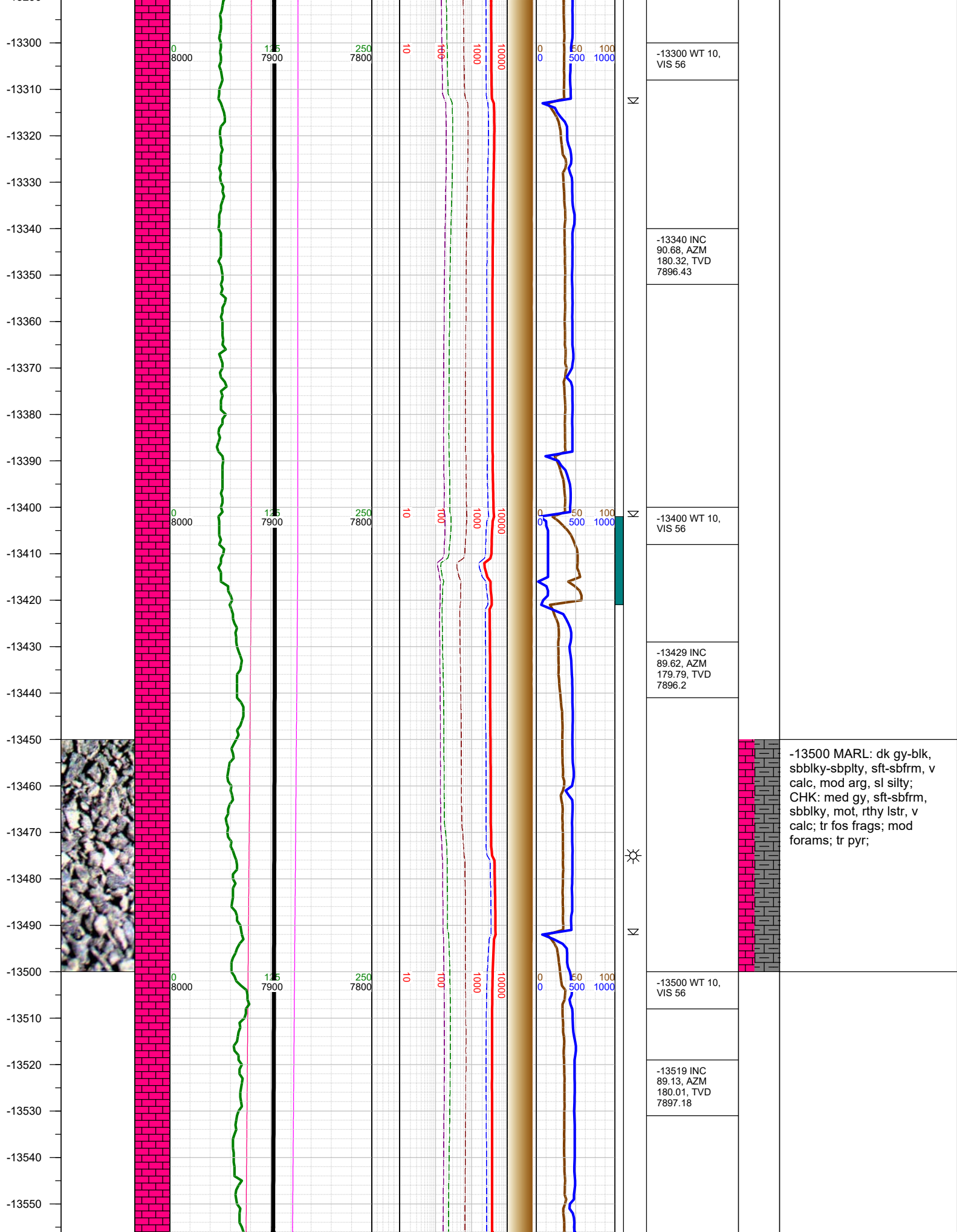




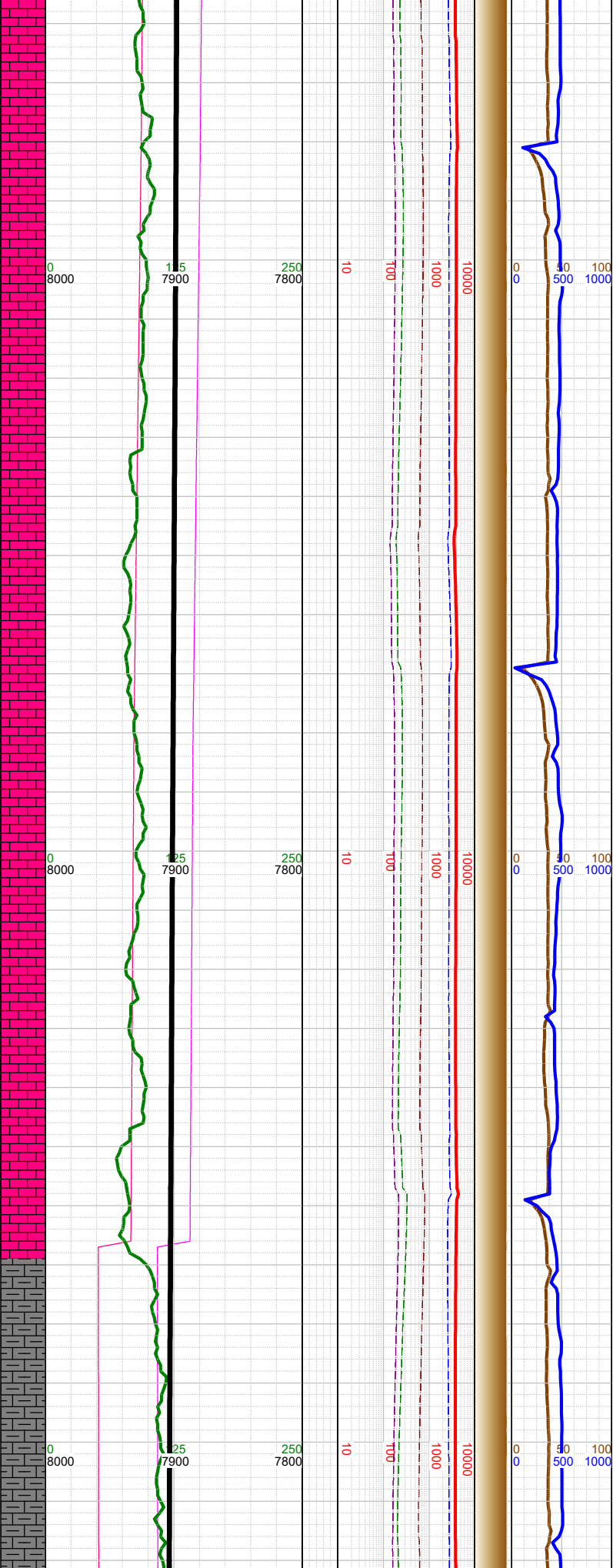




-13250 CHK: med-dk gy-brn, mot, sft-sbfrm, sbblky, rthy lstr, v calc; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, arg-silty; tr bent; tr forams; tr fos frags; tr pyr;



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-13607 INC
88.69, AZM
180.05, TVD
7898.85

-13620 WT 10,
VIS 56

-13697 INC
88.42, AZM
180.27, TVD
7901.12

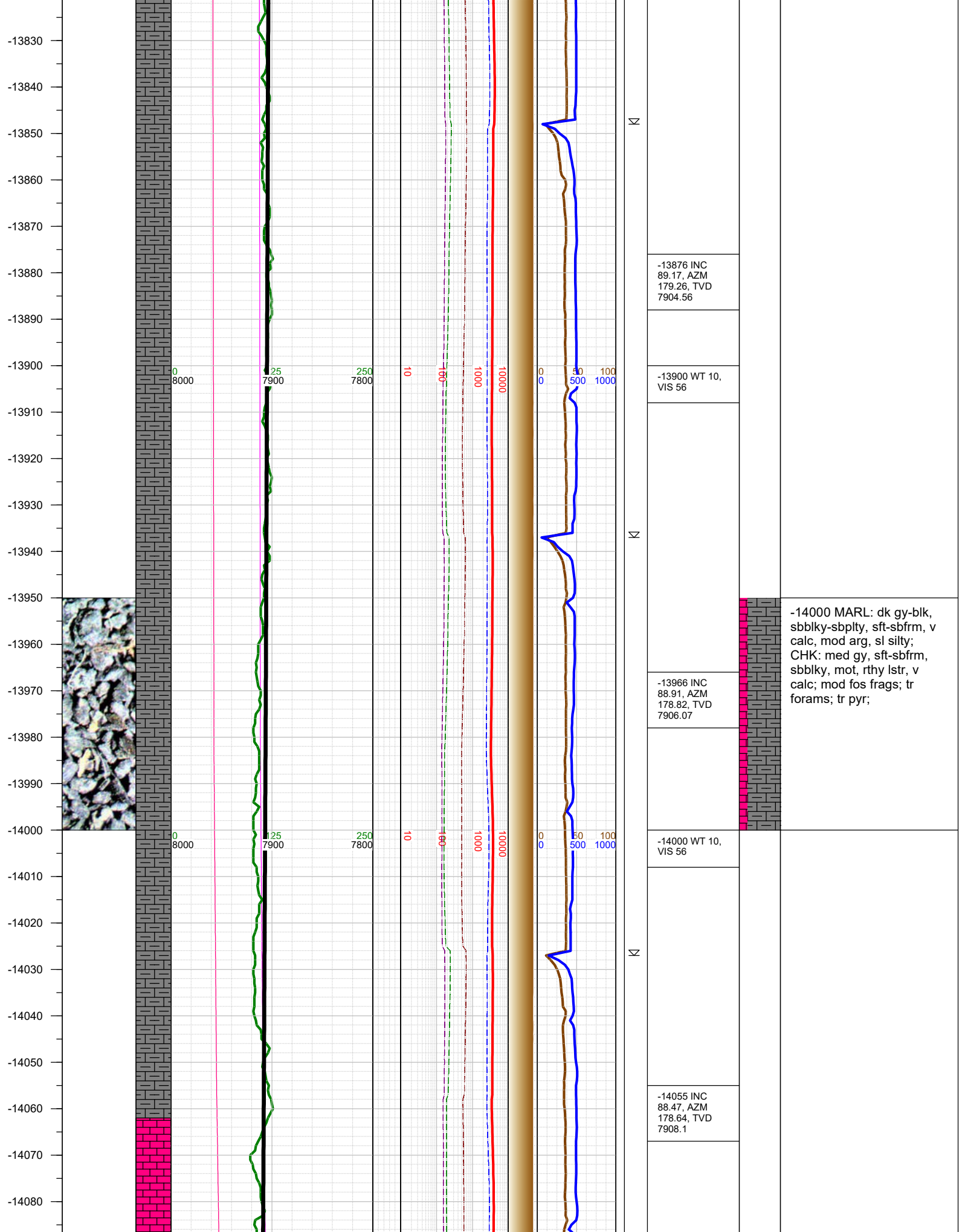
-13710 WT 10,
VIS 56

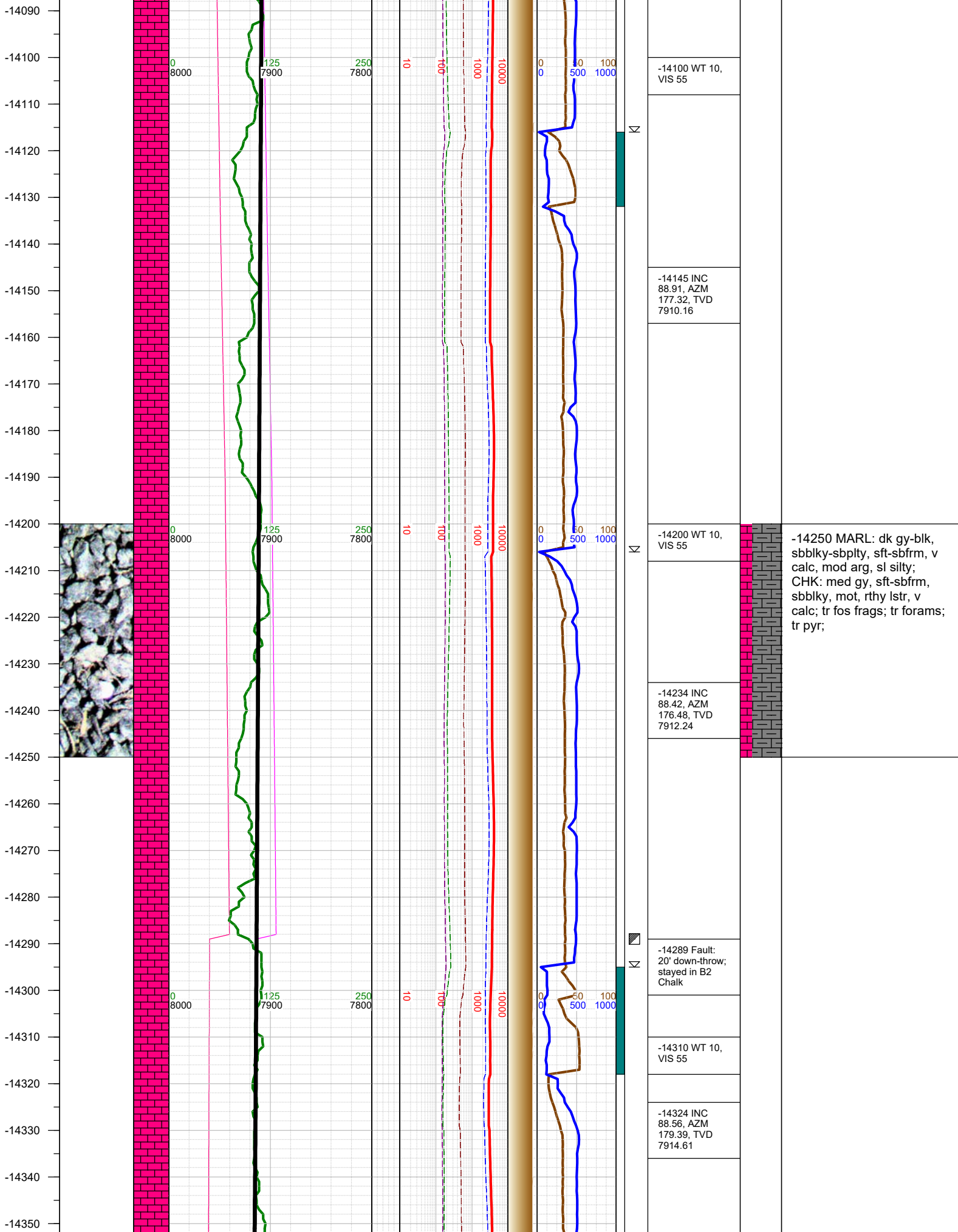
-13767 Fault:
25' down-throw;
went from B2
Chalk to A Marl

-13786 INC 89,
AZM 180.18,
TVD 7903.12

-13800 WT 10,
VIS 56

-13750 CHK: med-dk gy-
brn, mot, sft-sbfrm, sbbiky,
rthy lstr, v calc; MARL: dk
gy-blk, sbbiky-sbply, sft-
sbfrm, v calc, arg-silty; tr
bent; tr forams; tr fos frags;
tr pyr;





-14100 WT 10,
VIS 55

-14145 INC
88.91, AZM
177.32, TVD
7910.16

-14200 WT 10,
VIS 55

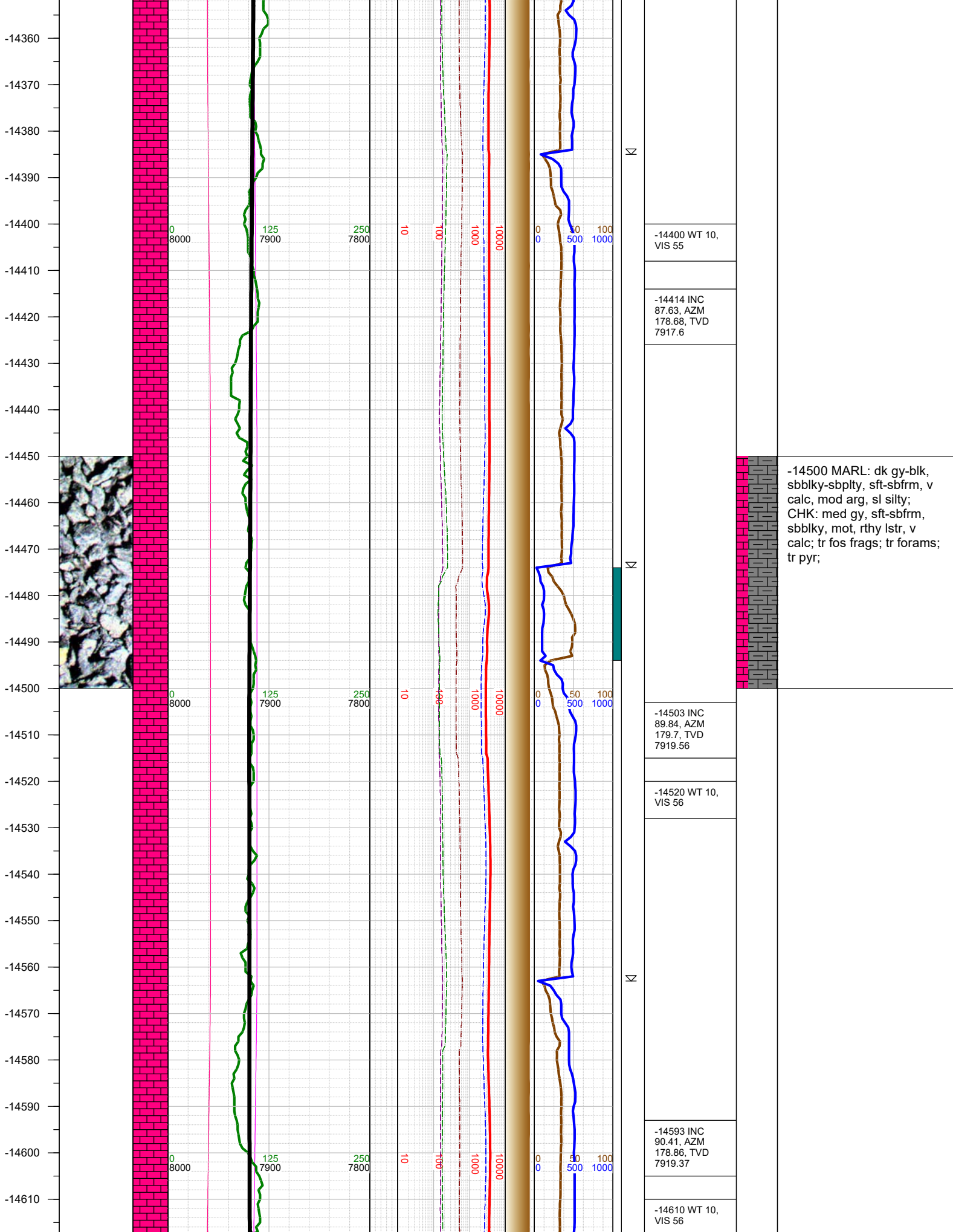
-14234 INC
88.42, AZM
176.48, TVD
7912.24

-14289 Fault:
20' down-throw;
stayed in B2
Chalk

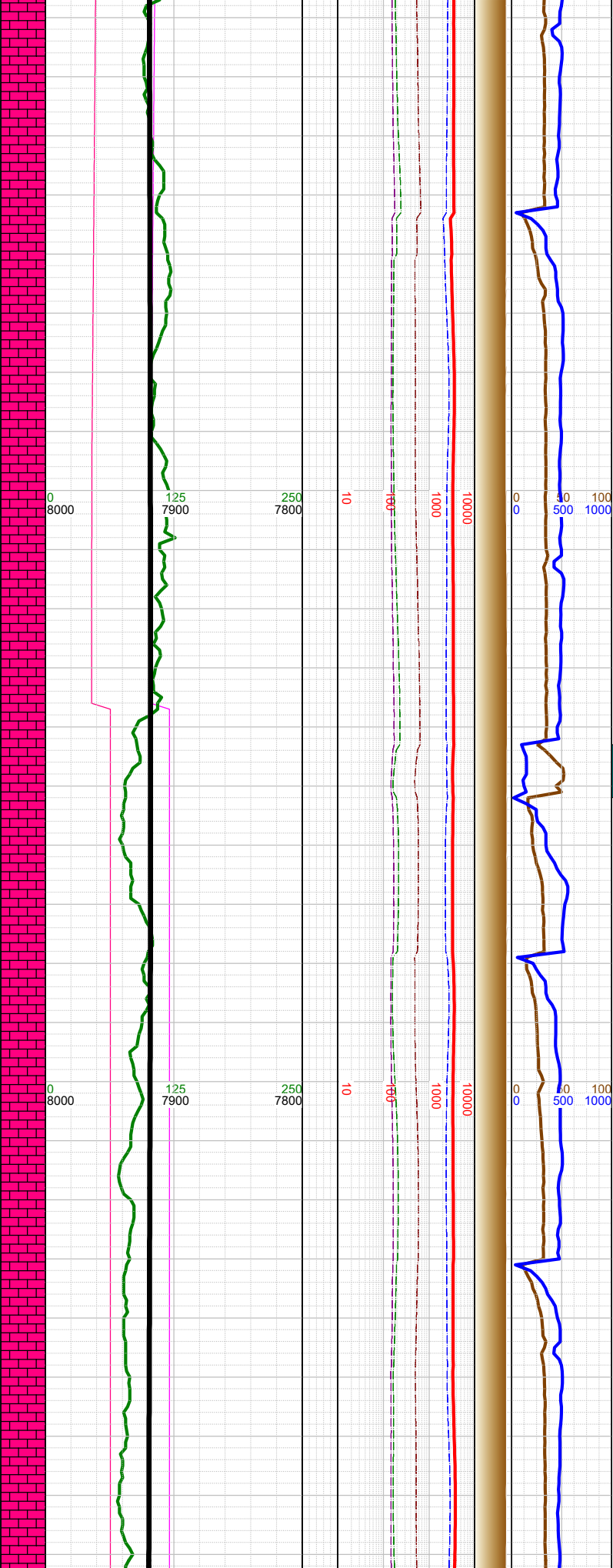
-14310 WT 10,
VIS 55

-14324 INC
88.56, AZM
179.39, TVD
7914.61

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



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-14683 INC
90.81, AZM
178.46, TVD
7918.41

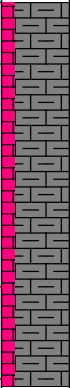
-14700 WT 10,
VIS 56

-14737 Fault:
15' up-throw;
stayed in B2
Chalk

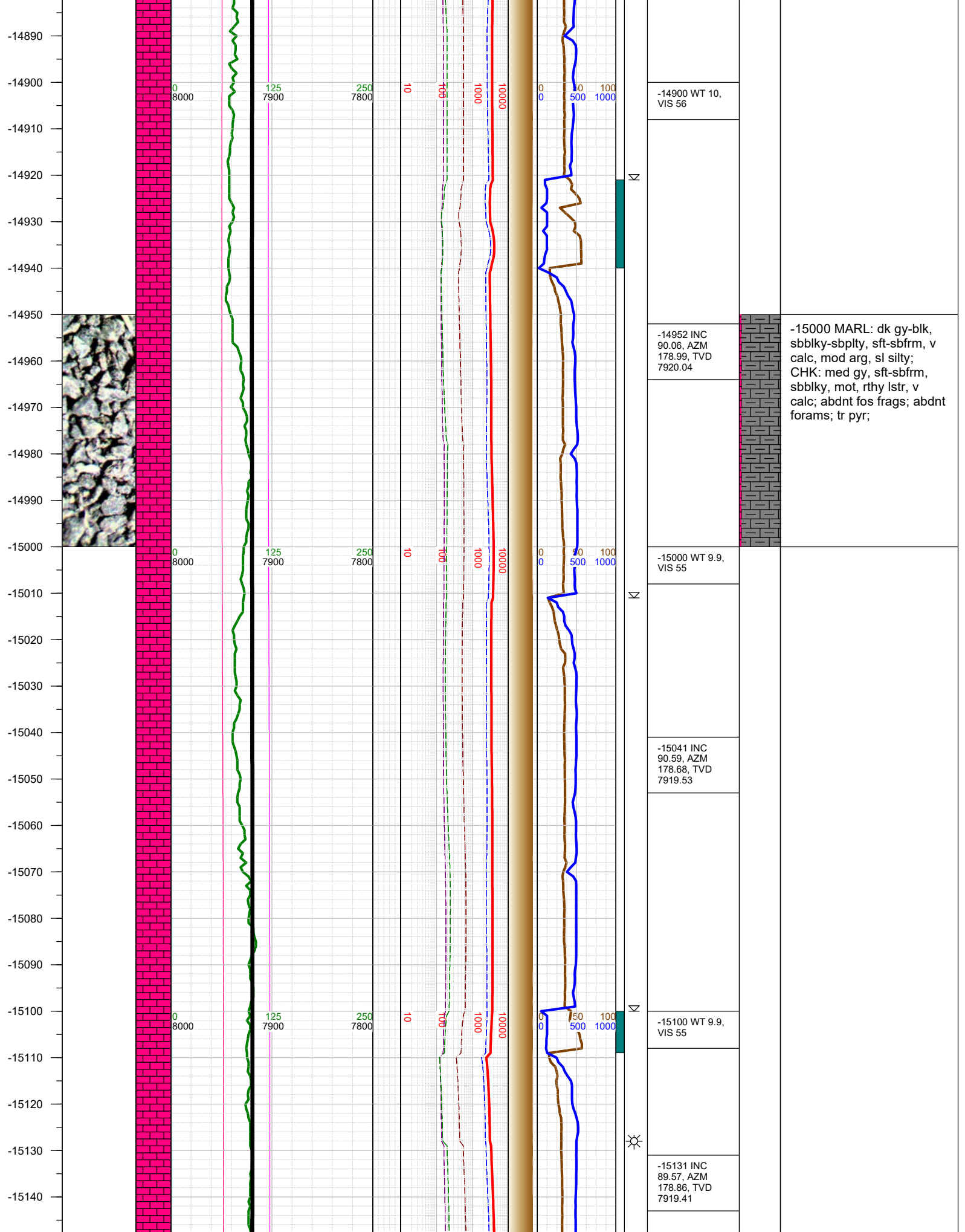
-14772 INC
89.4, AZM
178.99, TVD
7918.25

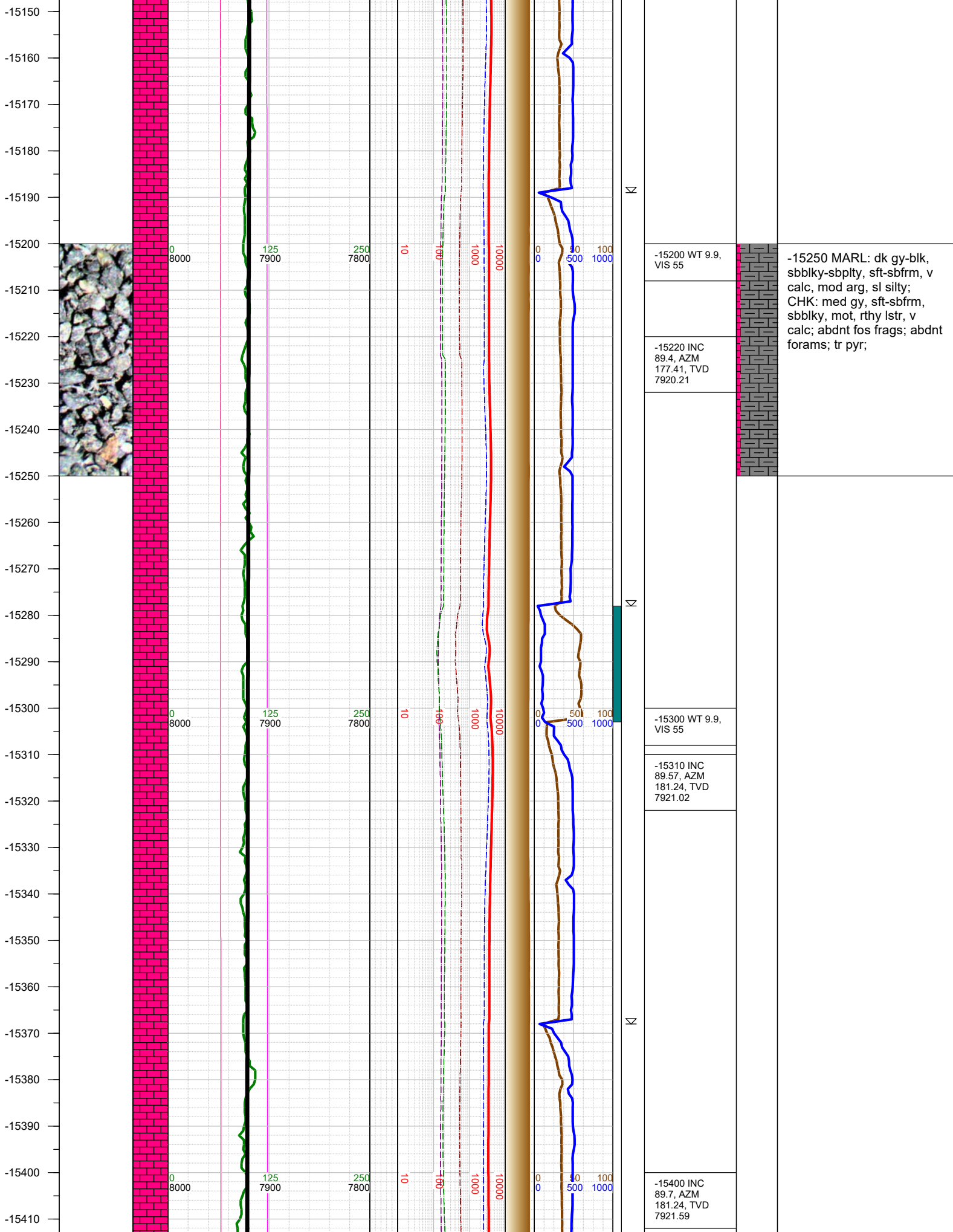
-14800 WT 10,
VIS 56

-14862 INC
89.13, AZM
177.41, TVD
7919.4

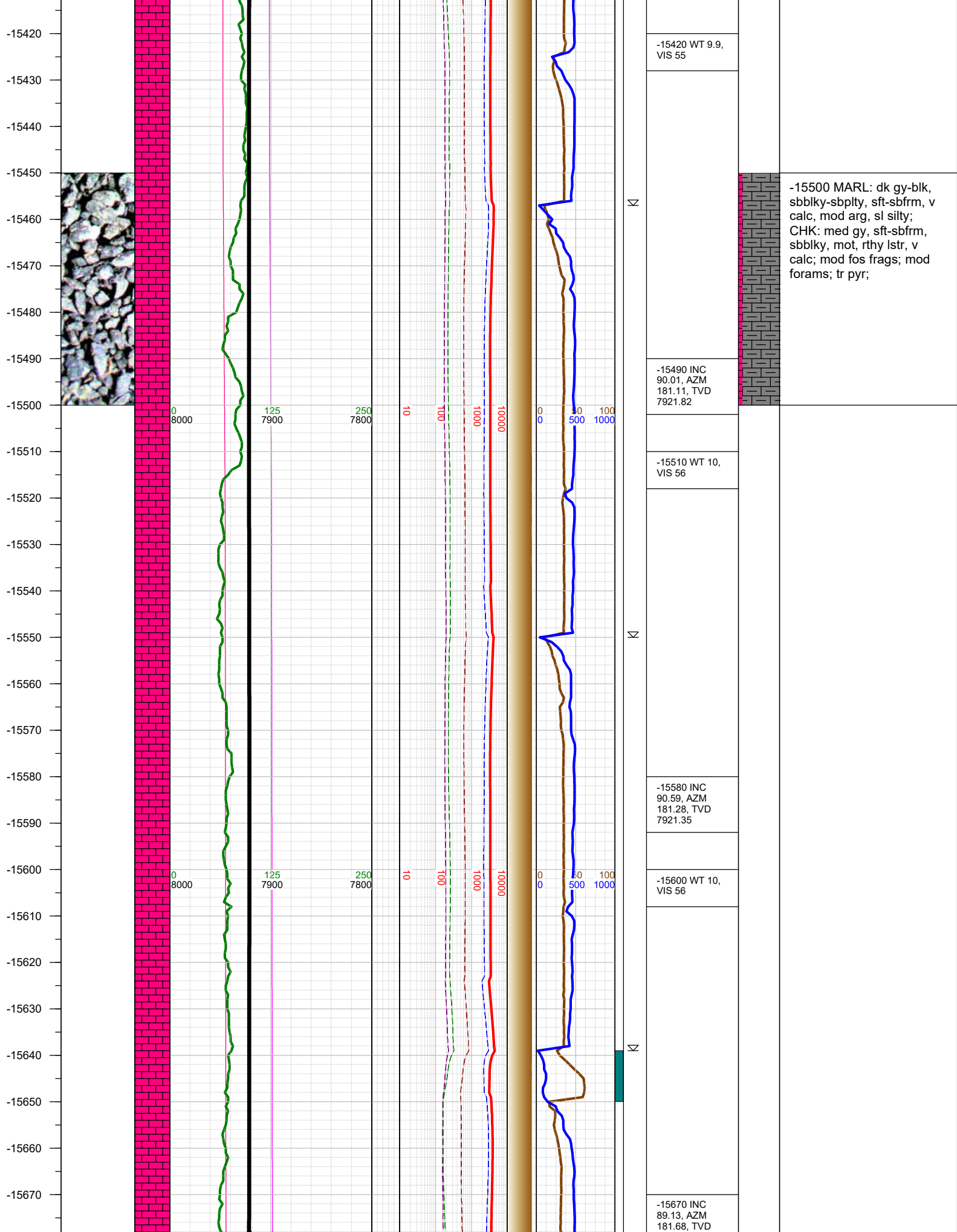


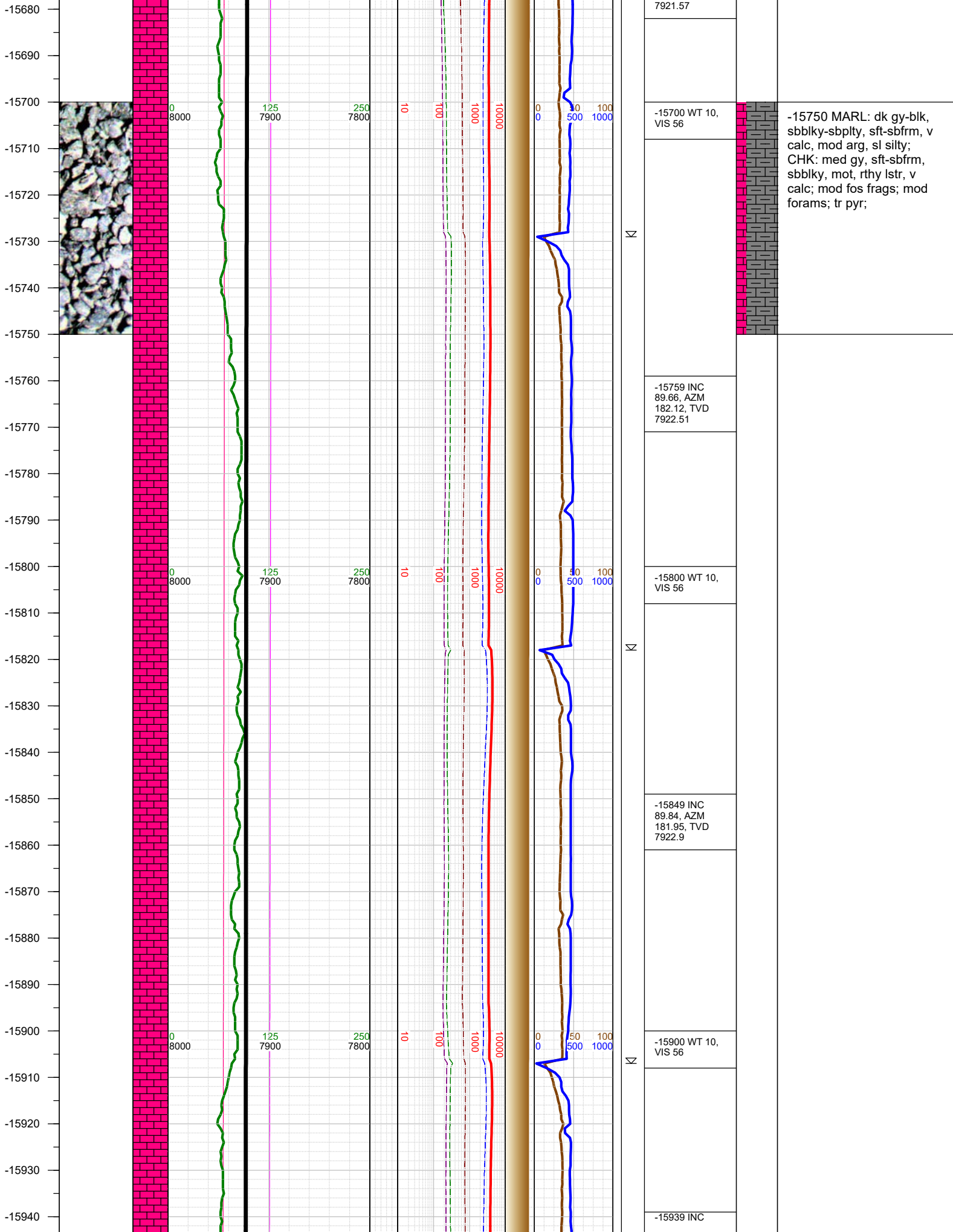
-14750 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: med gy, sft-sbfrm,
sbbiky, mot, rthy lstr, v
calc; tr fos frags; tr forams;
tr pyr;

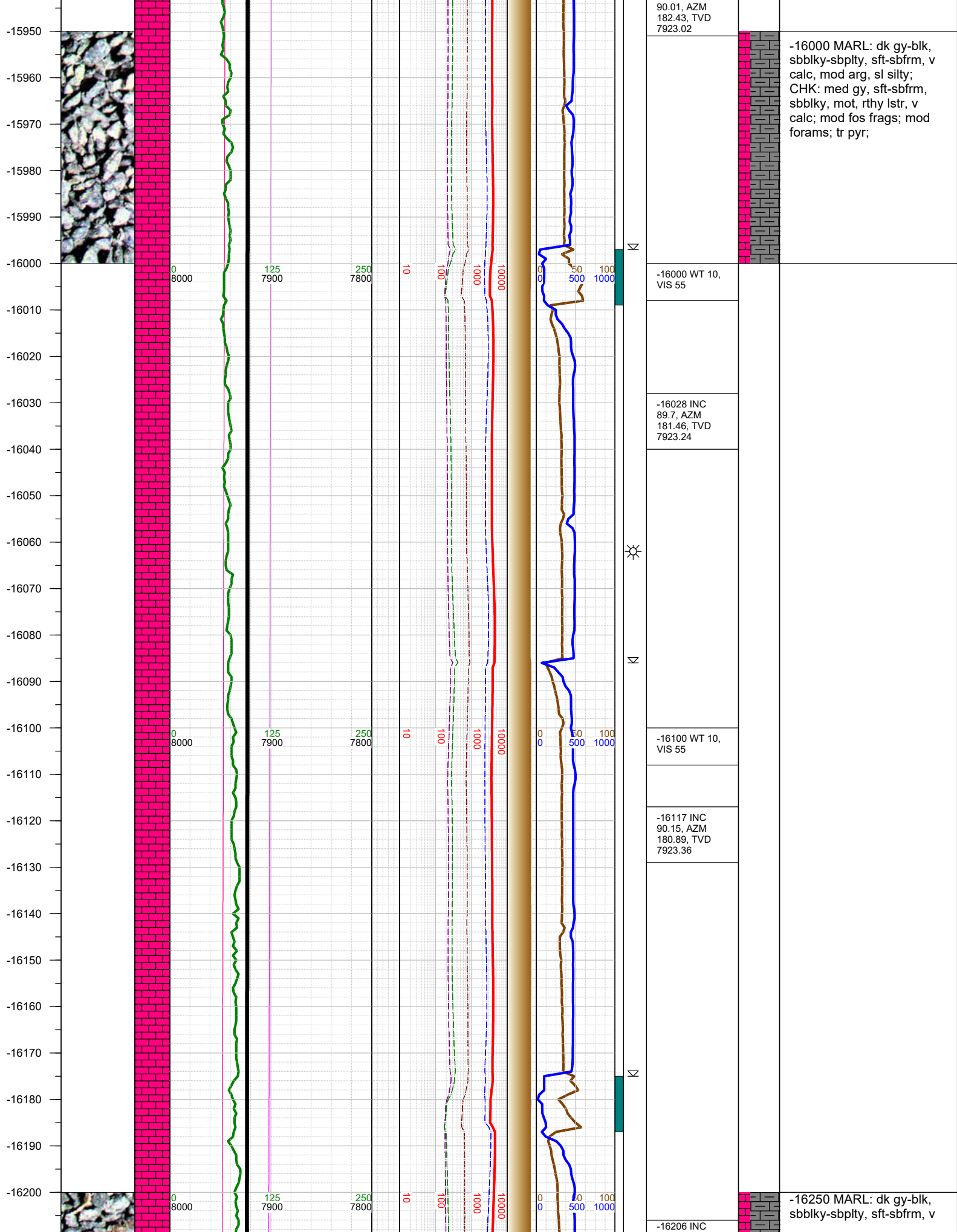


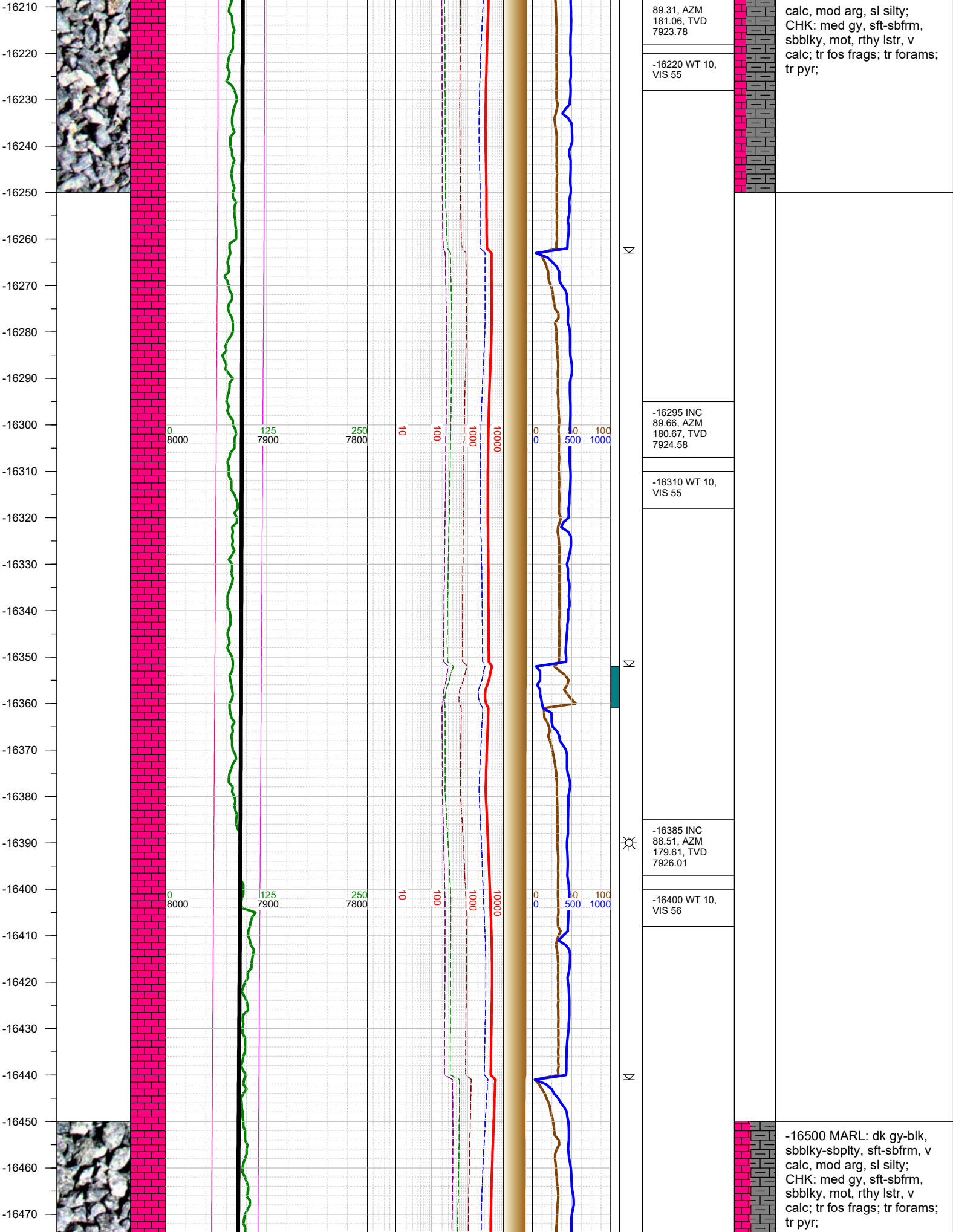


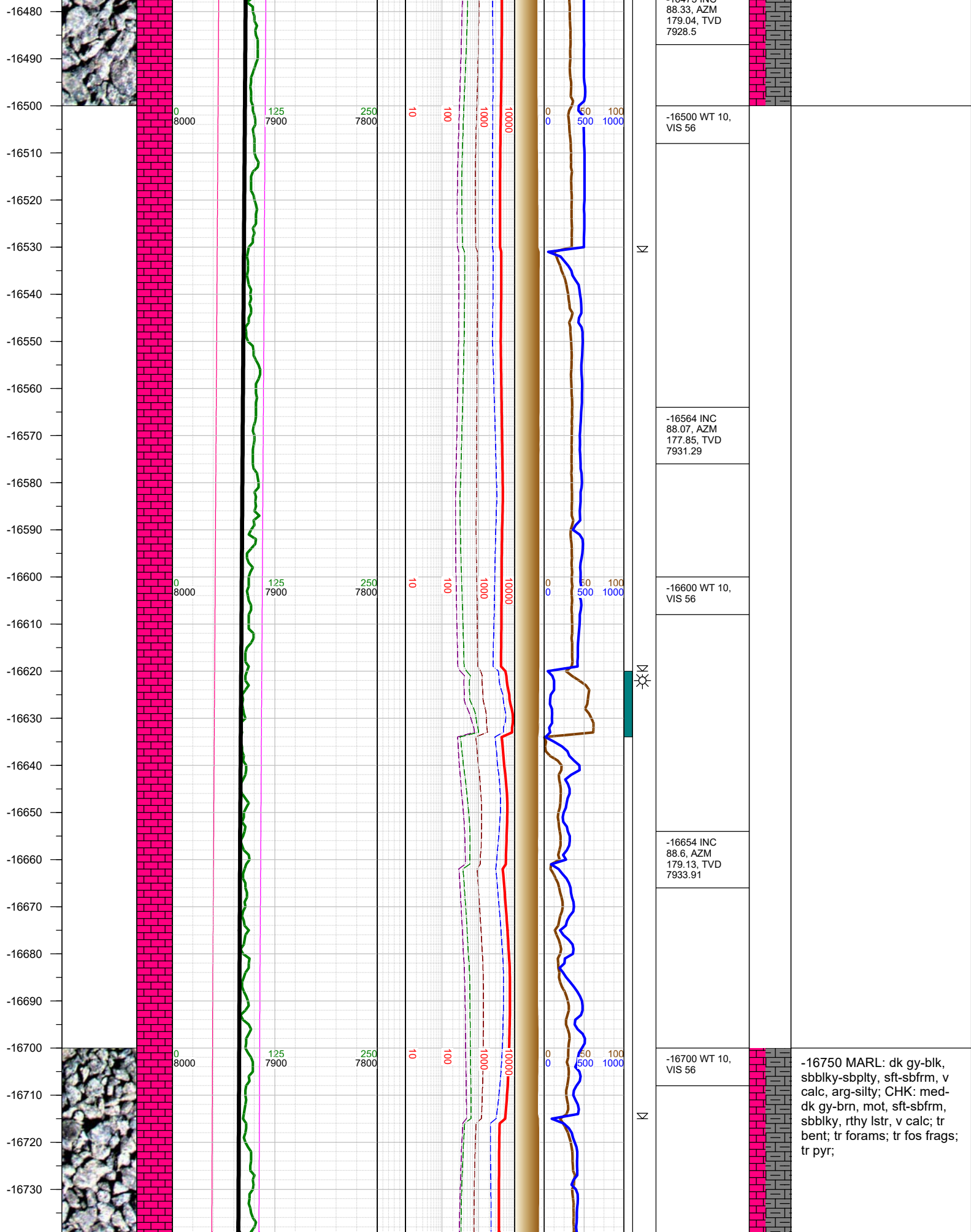
-15250 MARL: dk gy-blk, sbblky-sbply, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; abndt fos frags; abndt forams; tr pyr;

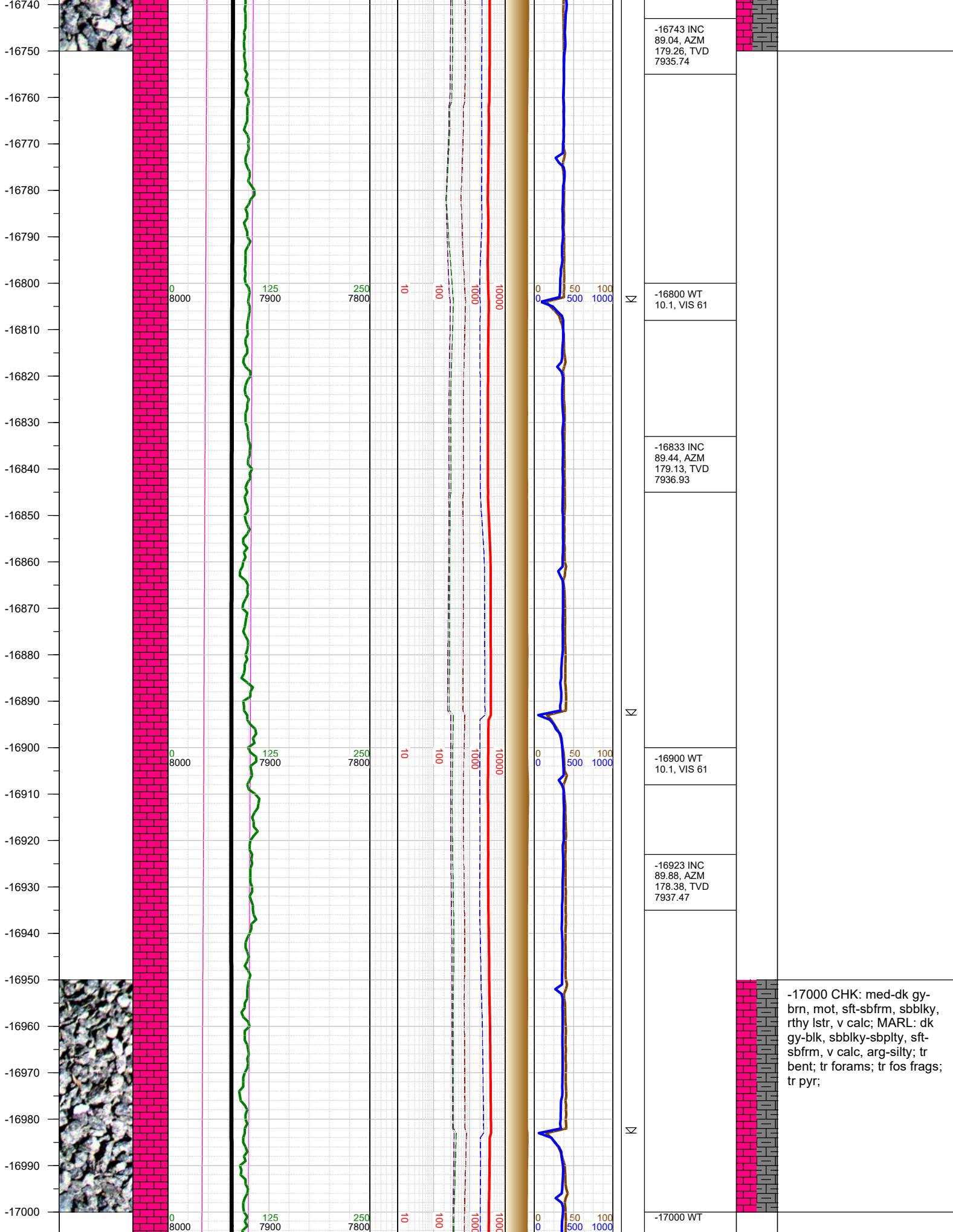












-17000 CHK: med-dk gy-brn, mot, sft-sbfrm, sbblky, rthy lstr, v calc; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, arg-silty; tr bent; tr forams; tr fos frags; tr pyr;

