

OPERATOR: **Extraction Oil & Gas**
WELL NAME: **MT Fed Glenfair 8W-20-19**
FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Patterson 340
API #: 05-123-42186

LAT/LONG: 40.41776, -104.67166
SURFACE HOLE: NENW S9-T5N-R65W, 1116' FNL, 1755' FWL
BOTTOM HOLE: S7-T5N-R65W, 1488' FSL, 460' FWL

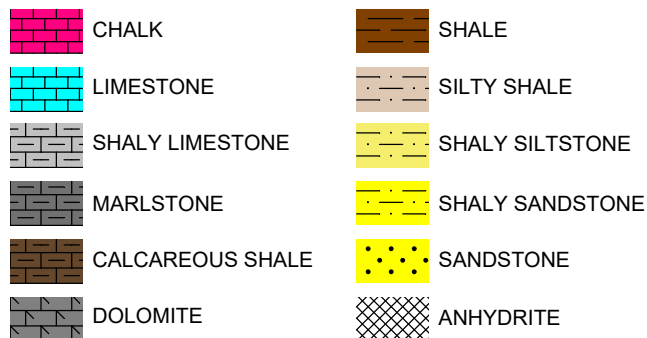


Earth Science Agency, LLC

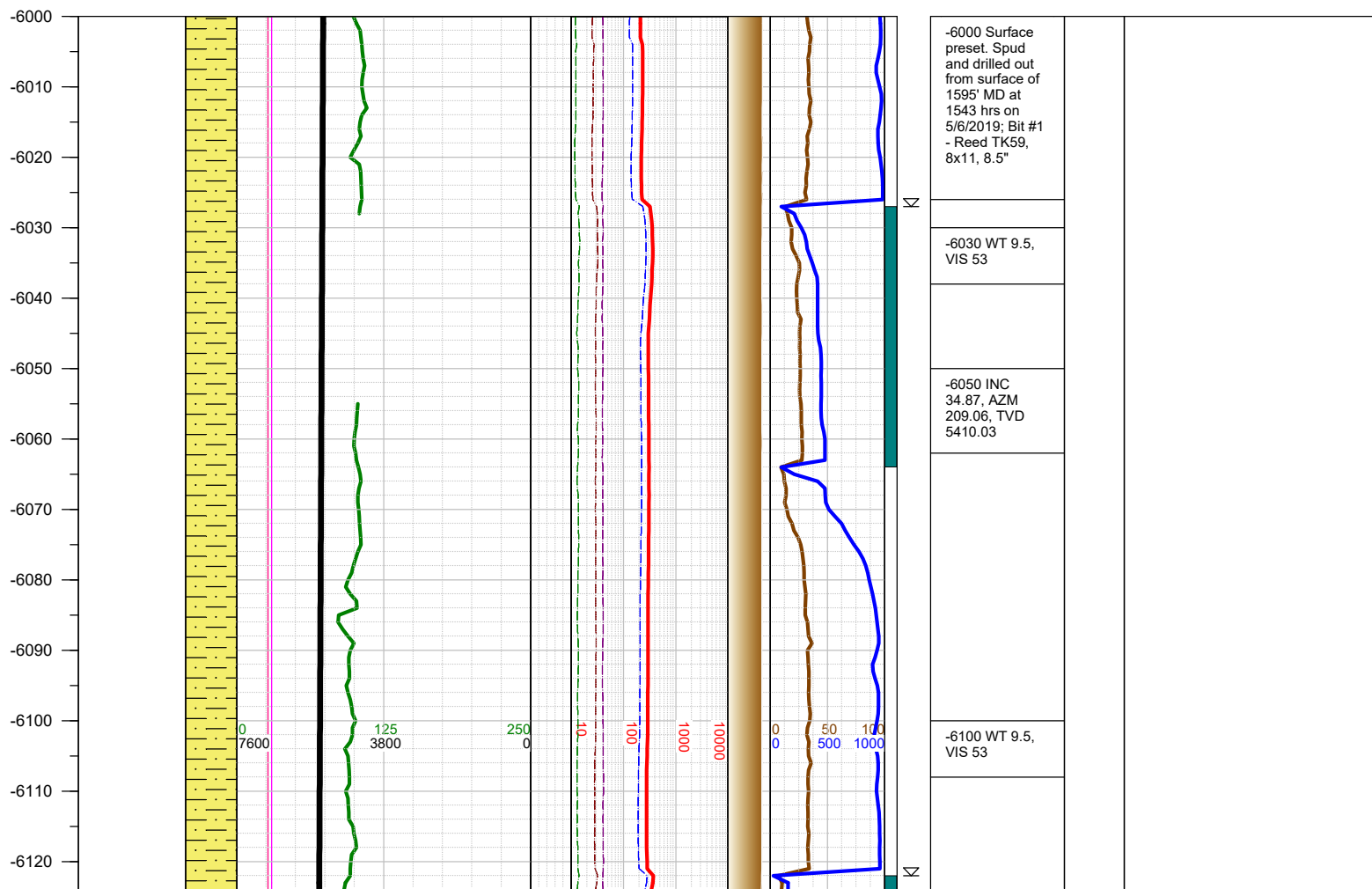
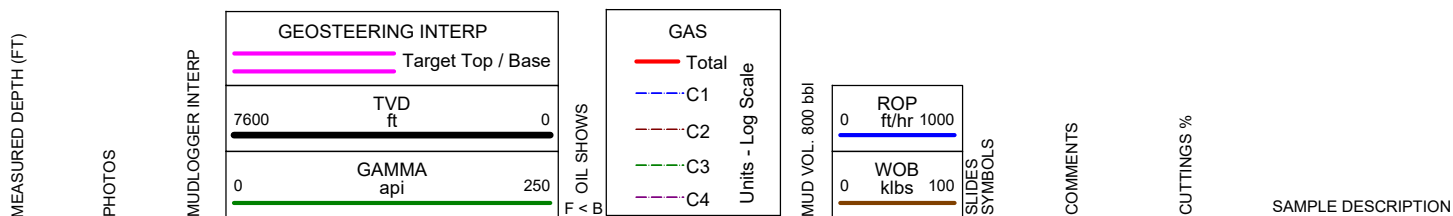
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4636'
KELLY BUSHING: 4661'
DRILLING FLUID: OBM
TVD VS. MD: 6790' / 17515'
SPUD DATE: May 6, 2019
TD DATE: May 9, 2019

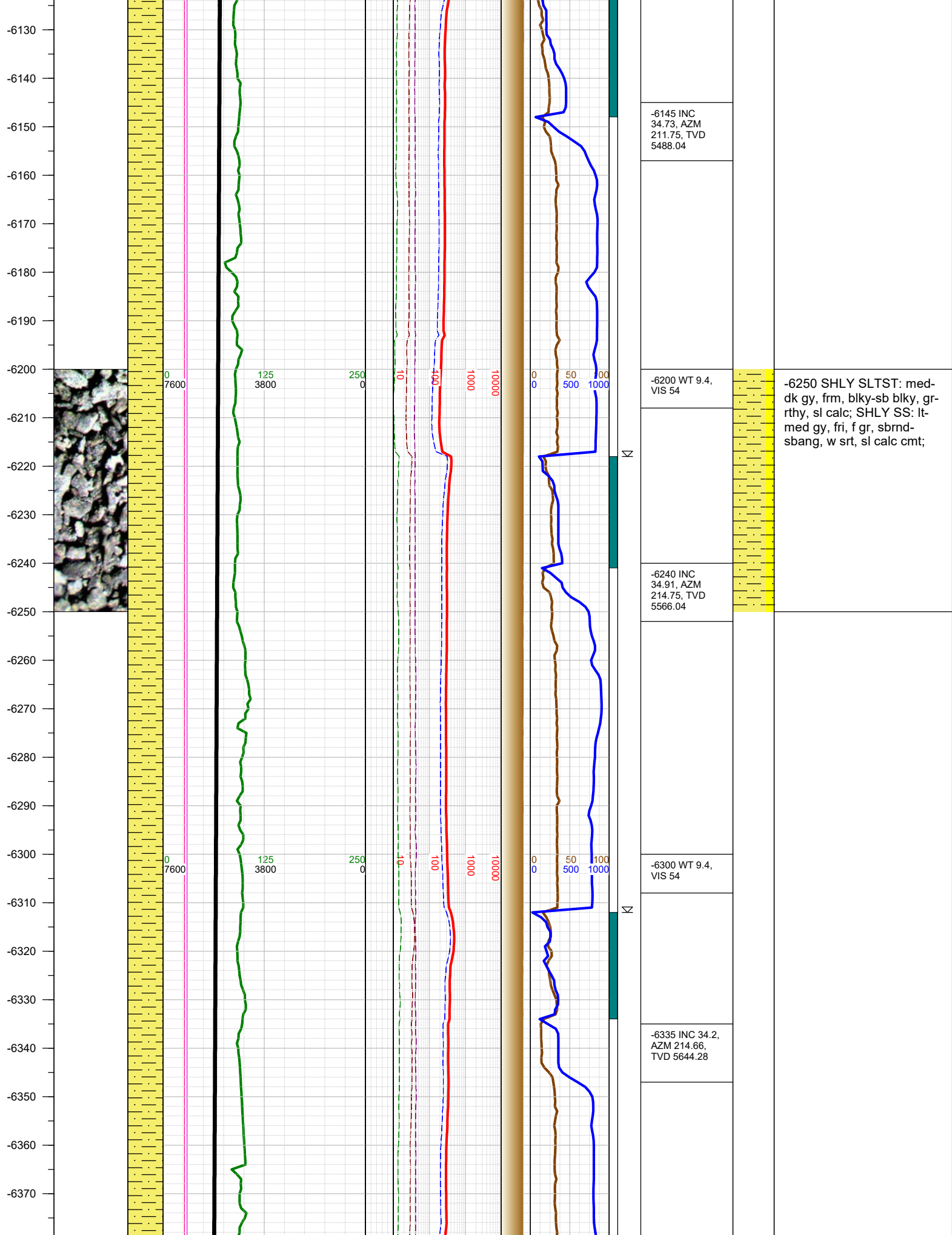
DEPTHS LOGGED: 6000' - 17515'
DATES LOGGED: May 6, 2019 - May 9, 2019
GEOLOGISTS: Curtis Magnino, Dan Jacobs
SCALE: 5" = 100'

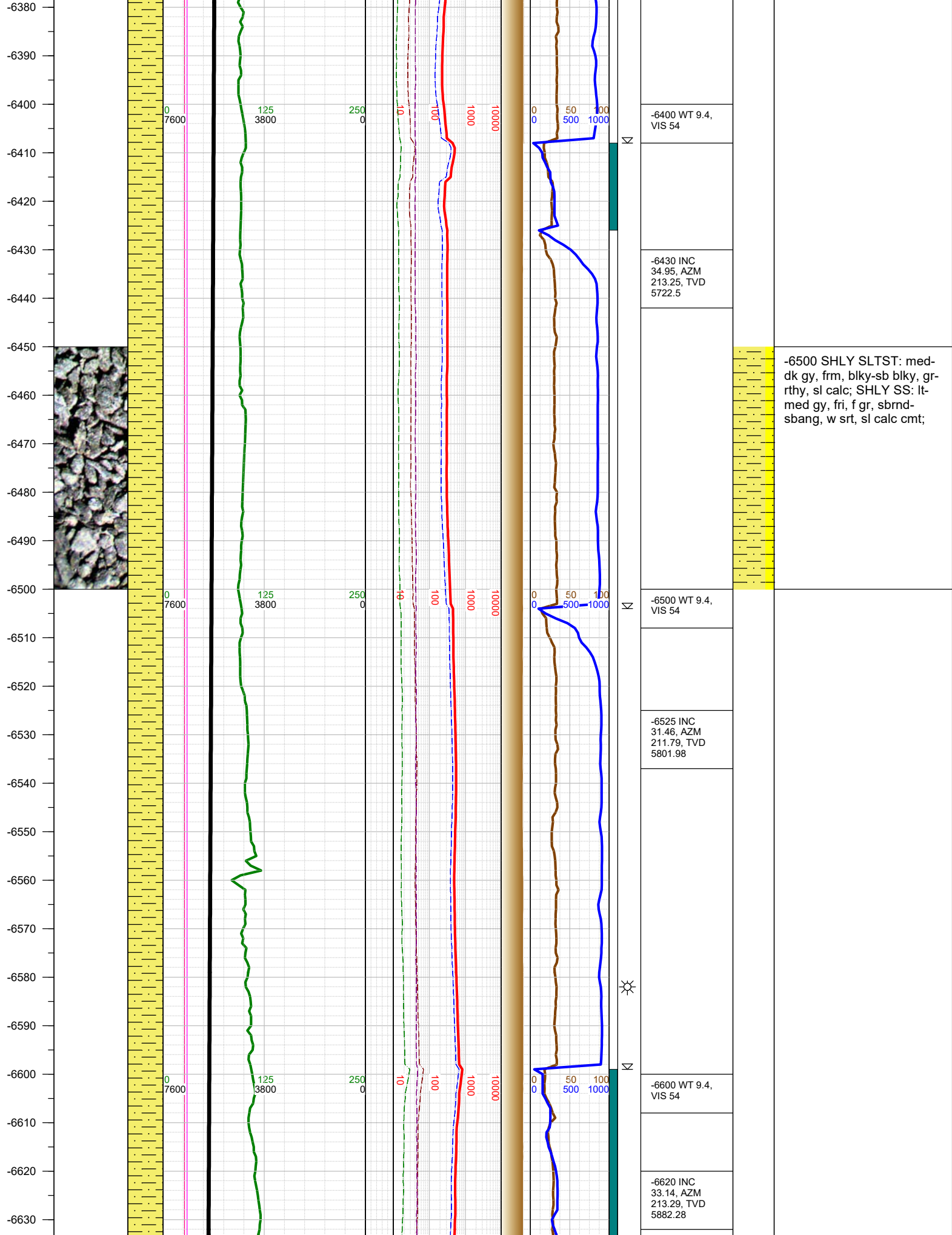
LEGEND

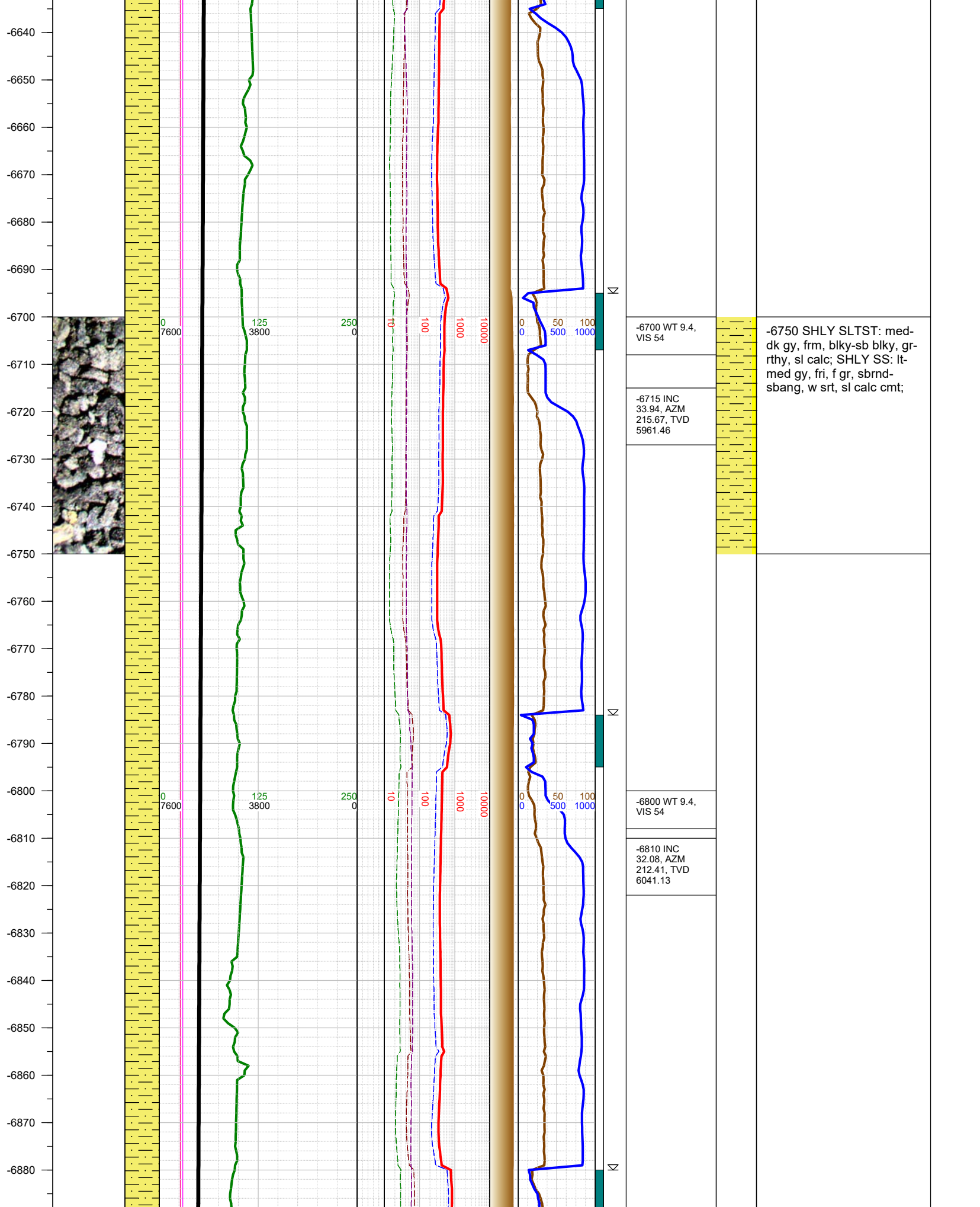


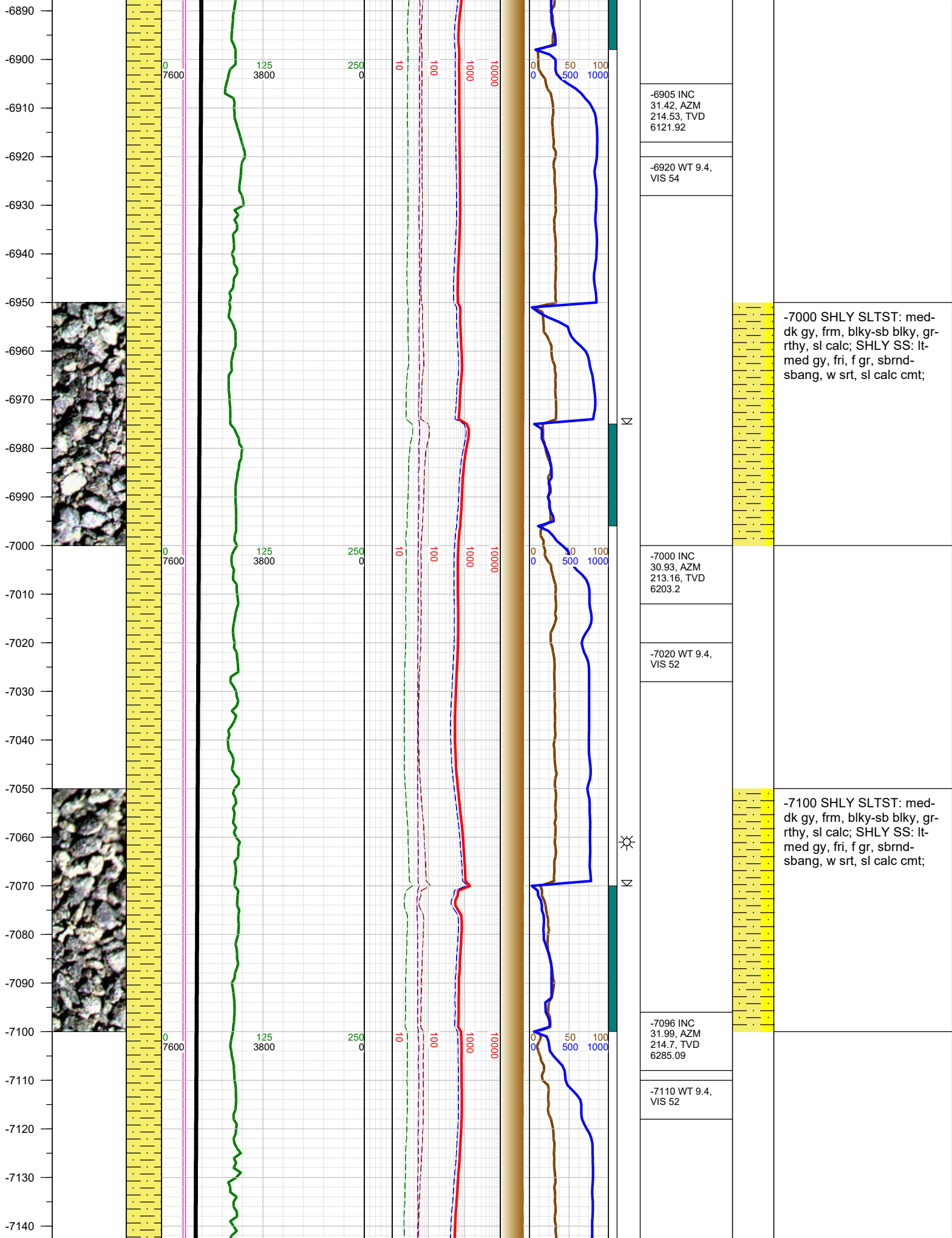
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

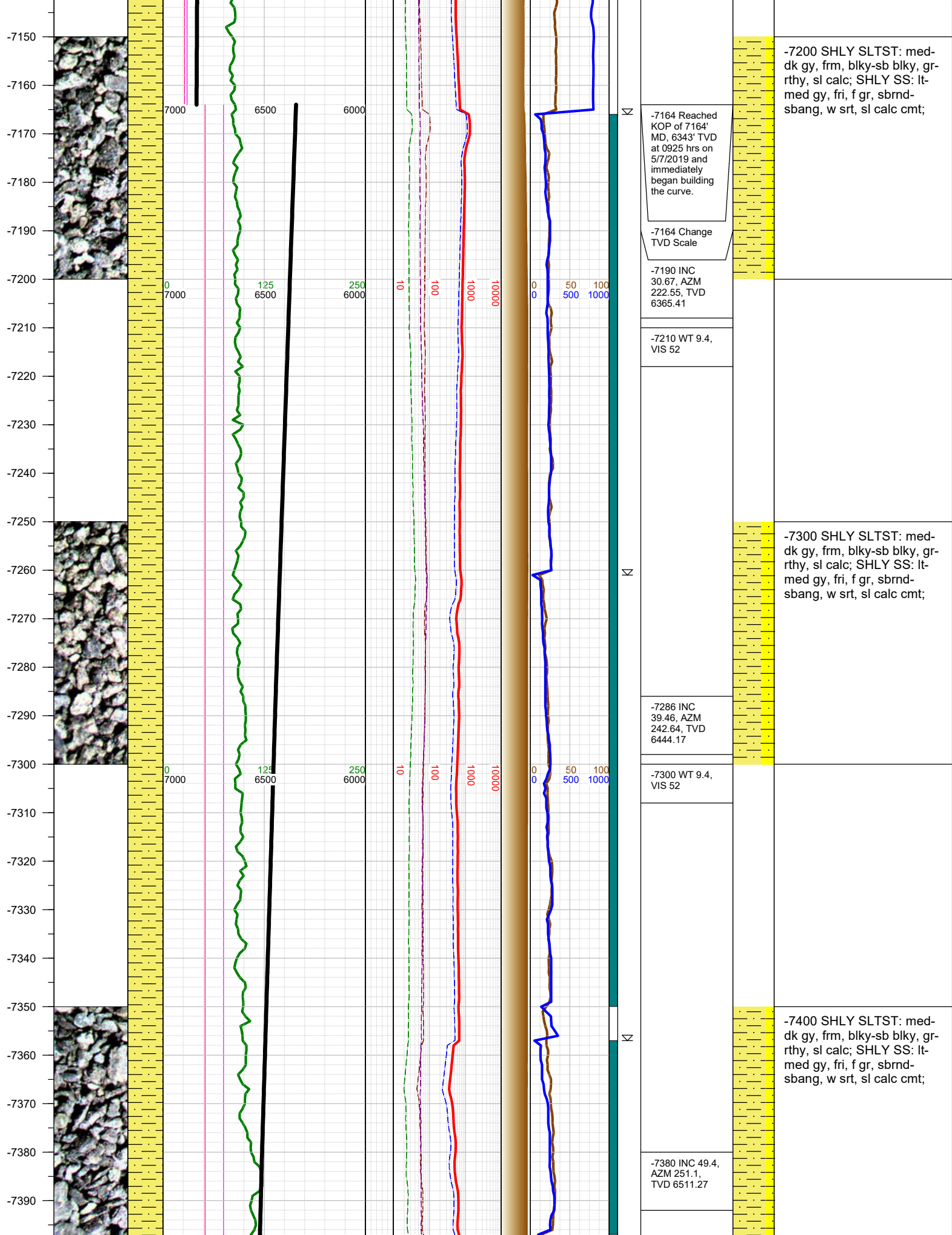


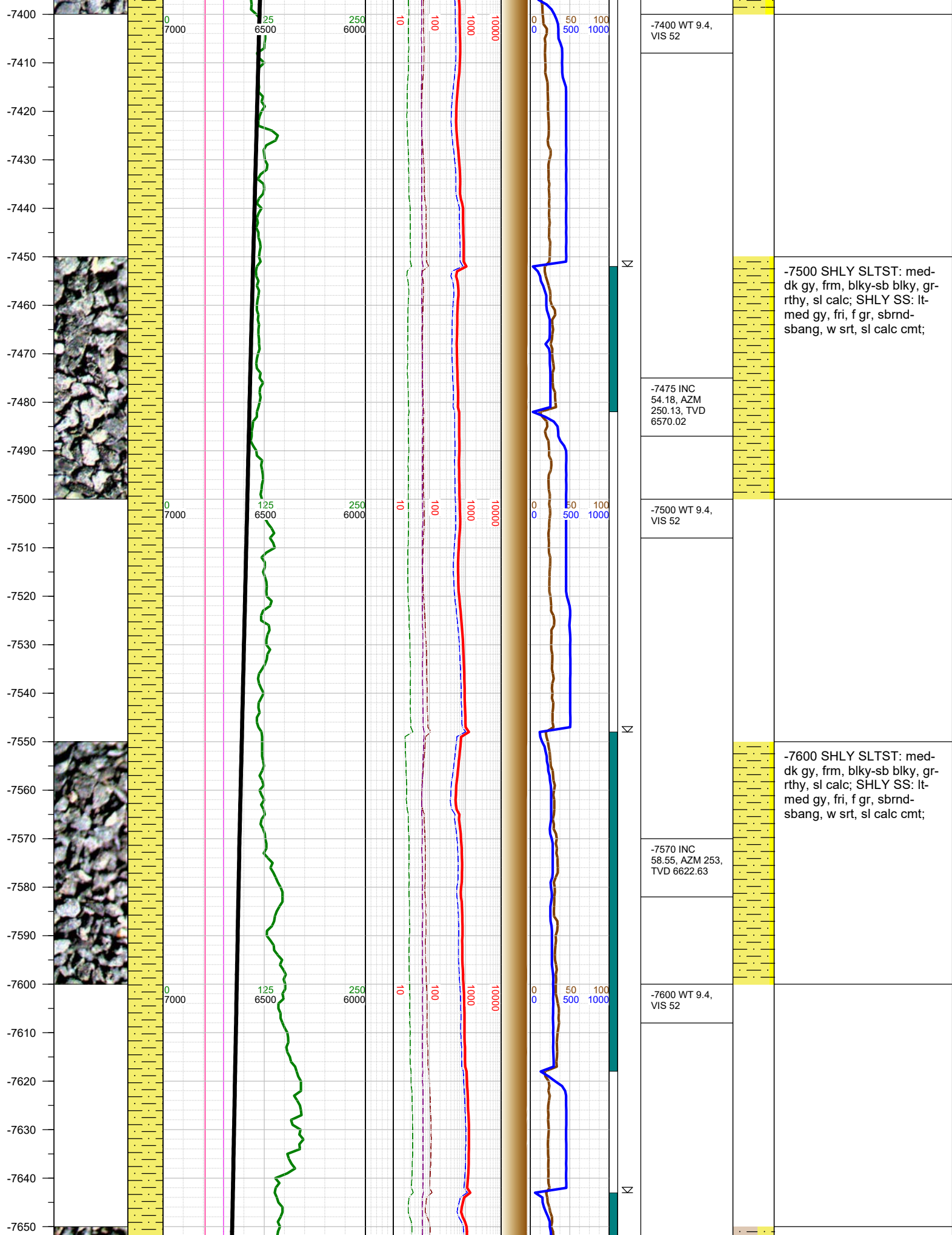


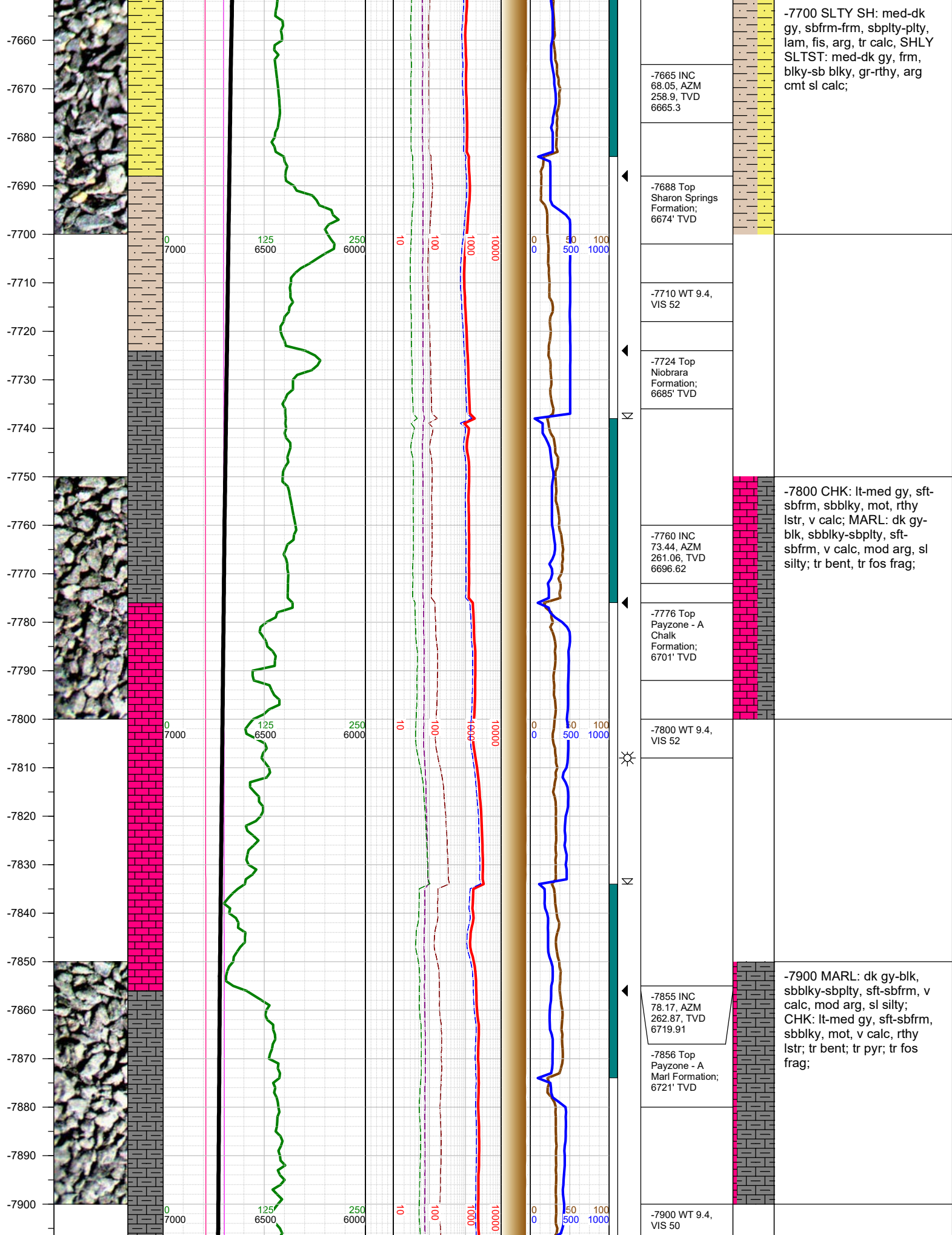


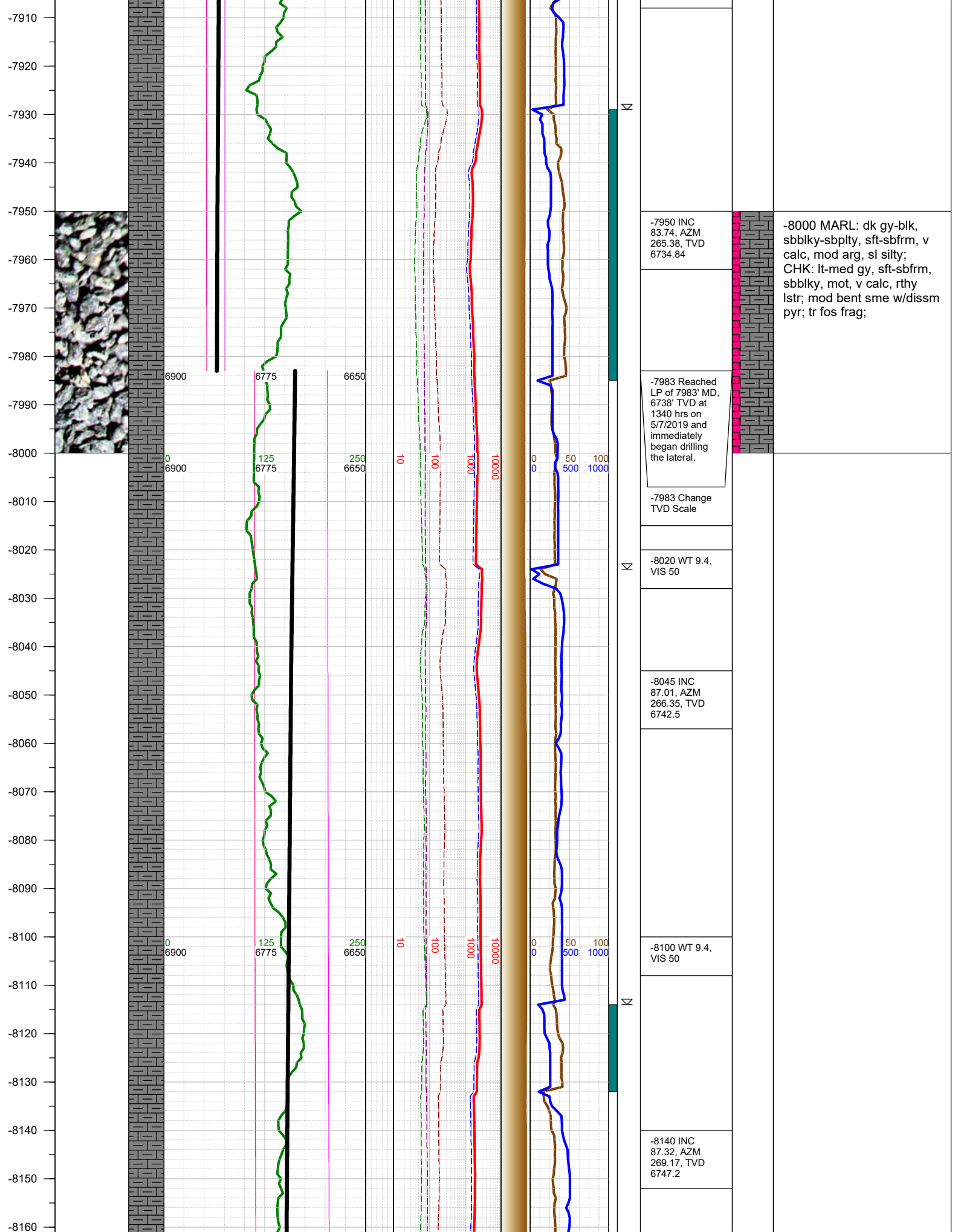


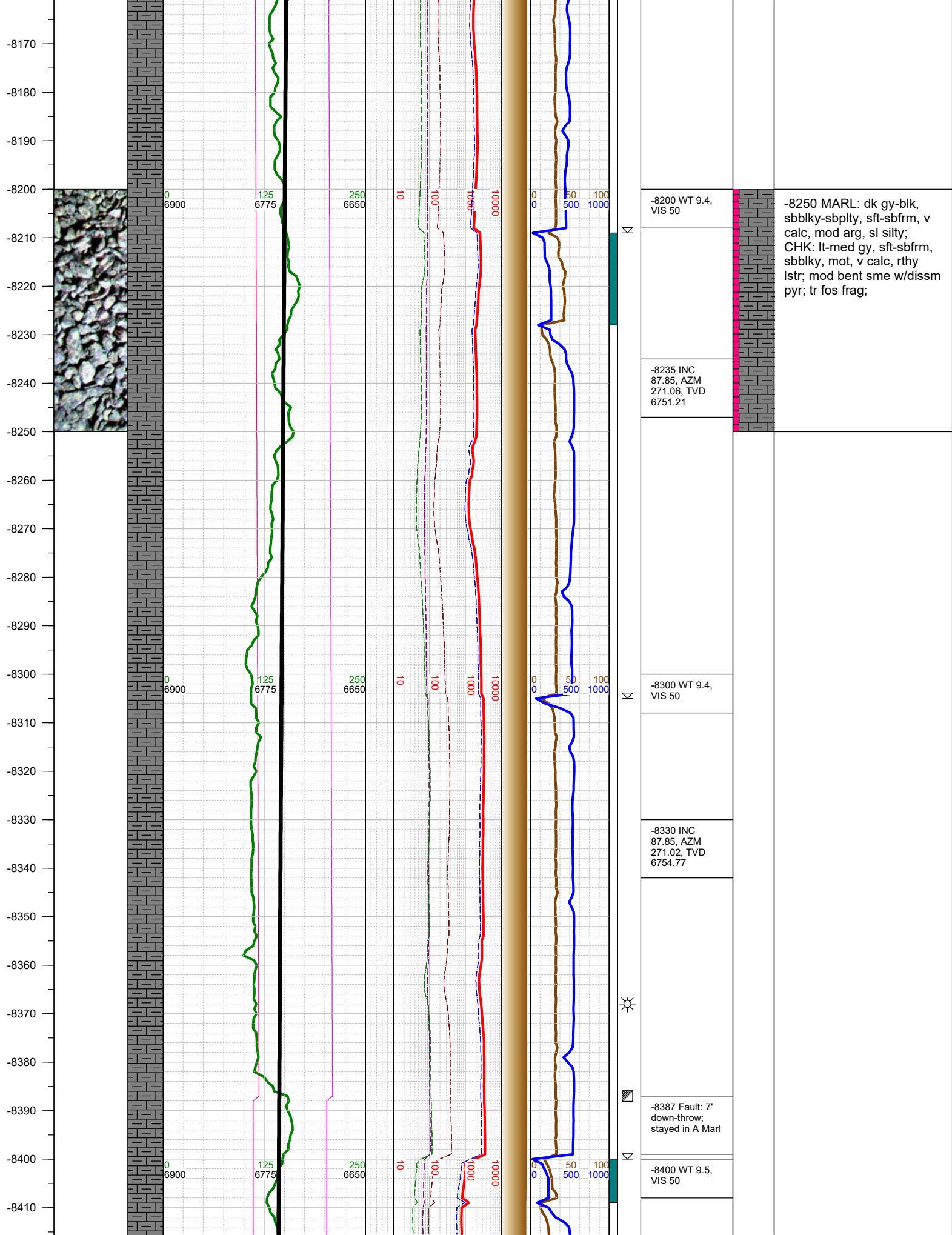




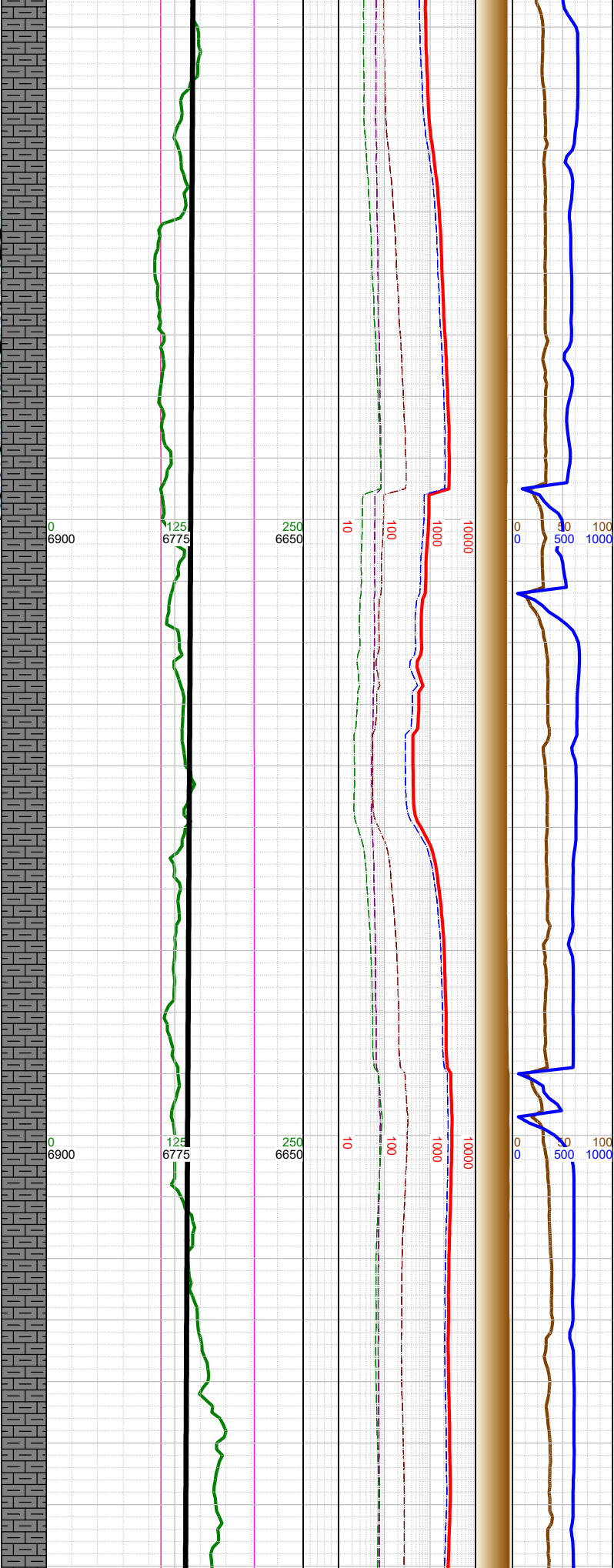
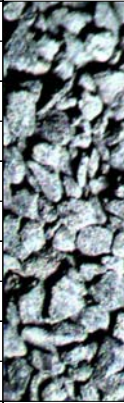






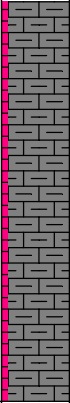


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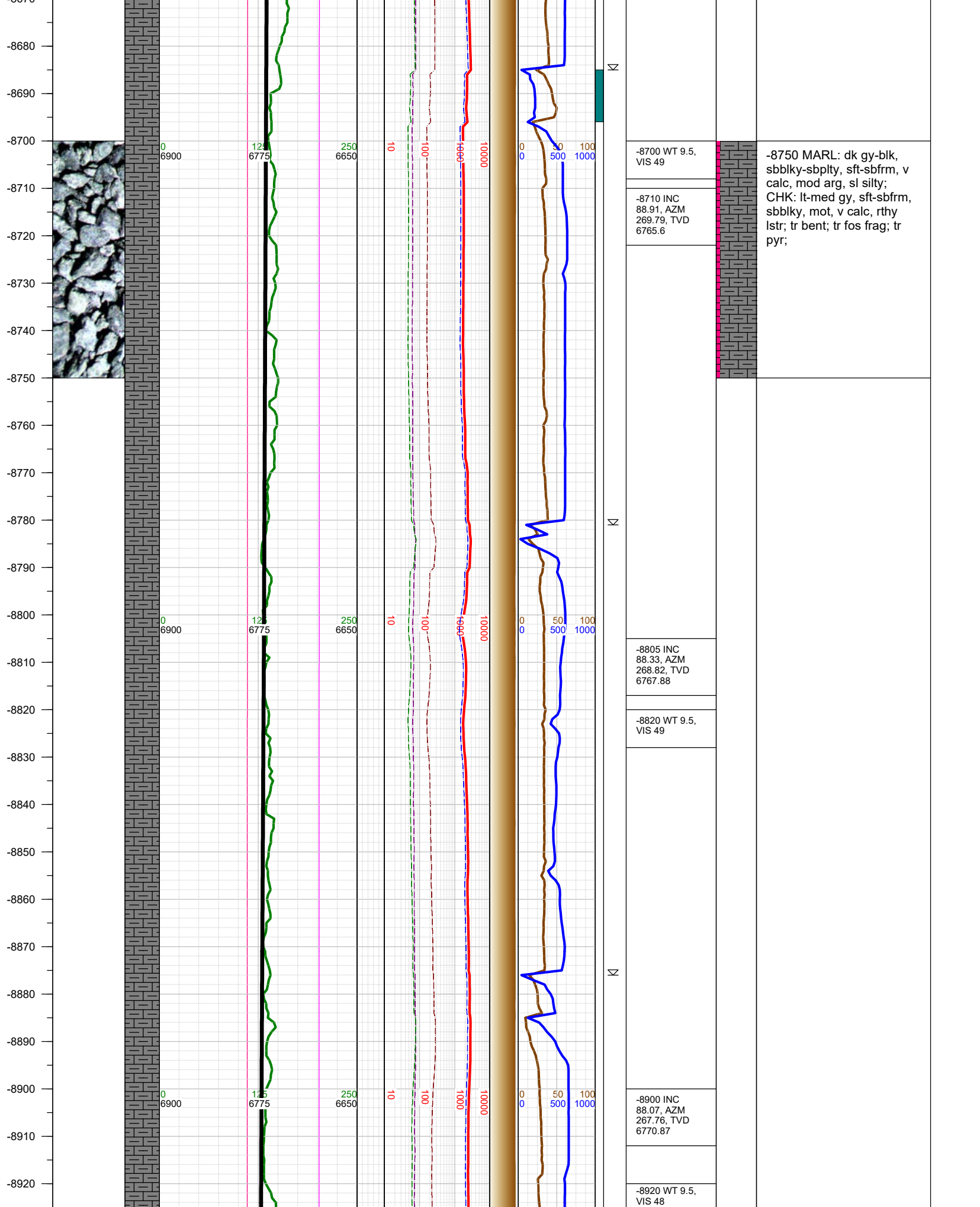


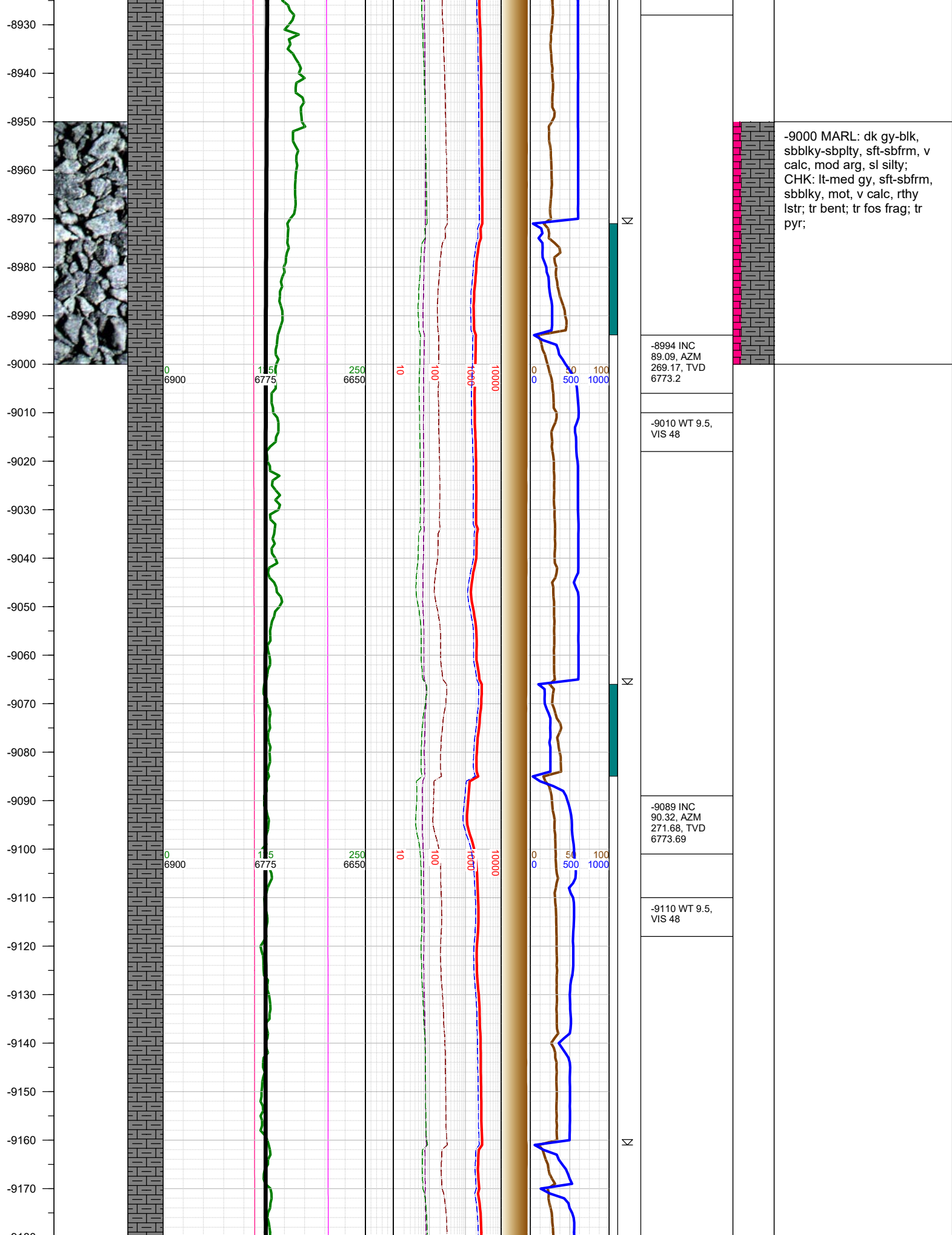
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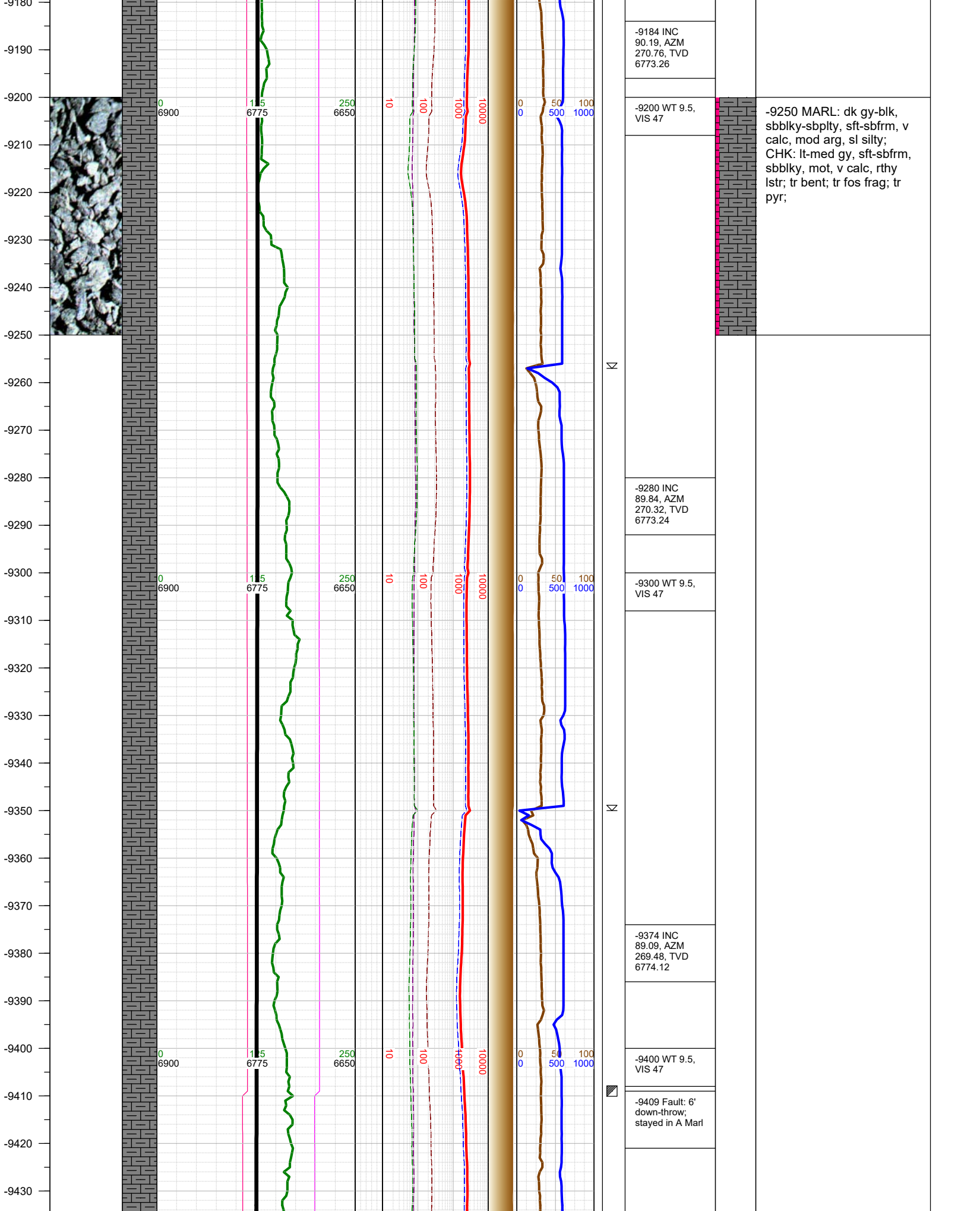
-8425 INC 88.64, AZM 270.71, TVD 6757.68	
-8500 WT 9.5, VIS 47	
-8520 INC 88.42, AZM 270.58, TVD 6760.12	
-8600 WT 9.5, VIS 47	
-8615 INC 88.03, AZM 270.32, TVD 6763.06	

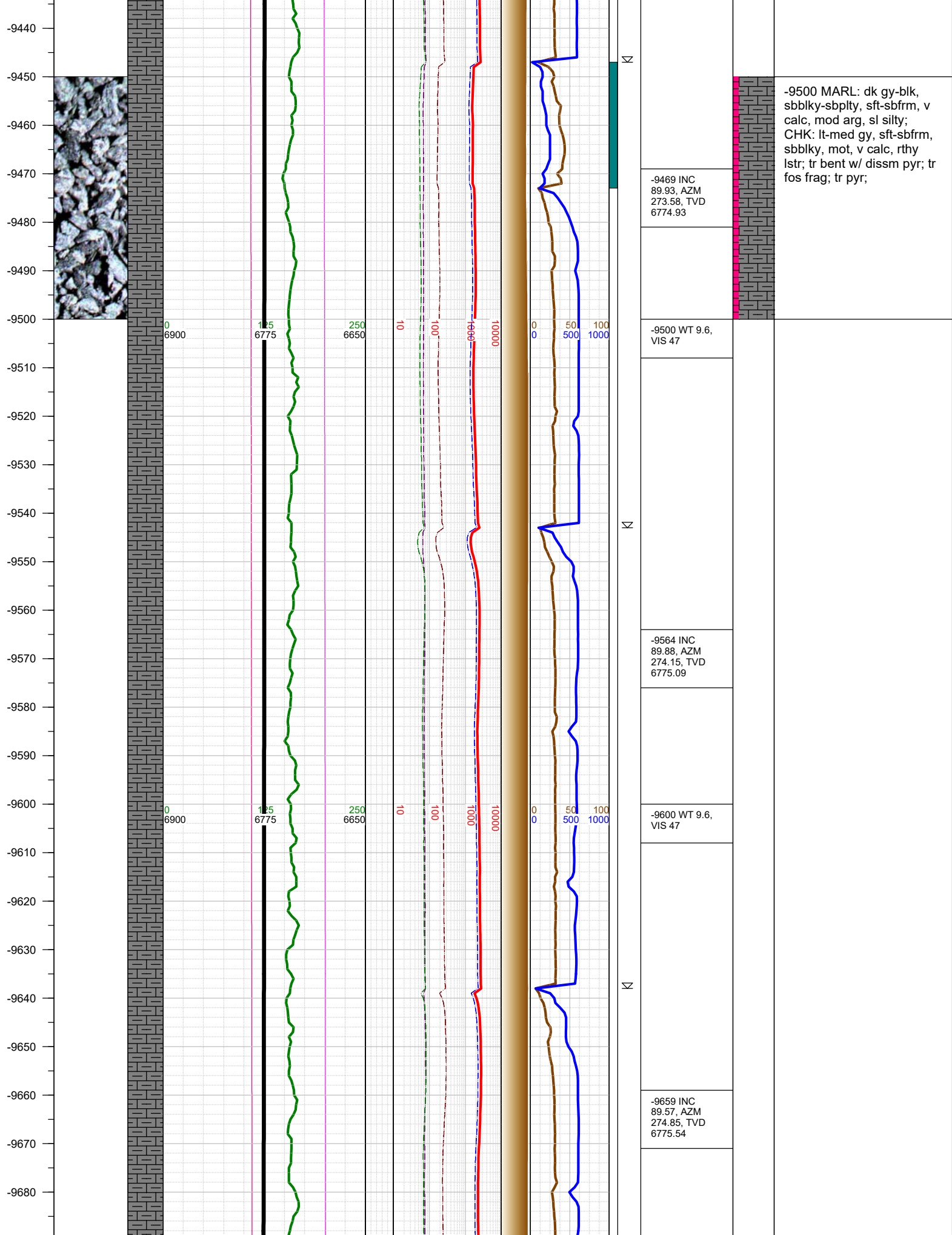


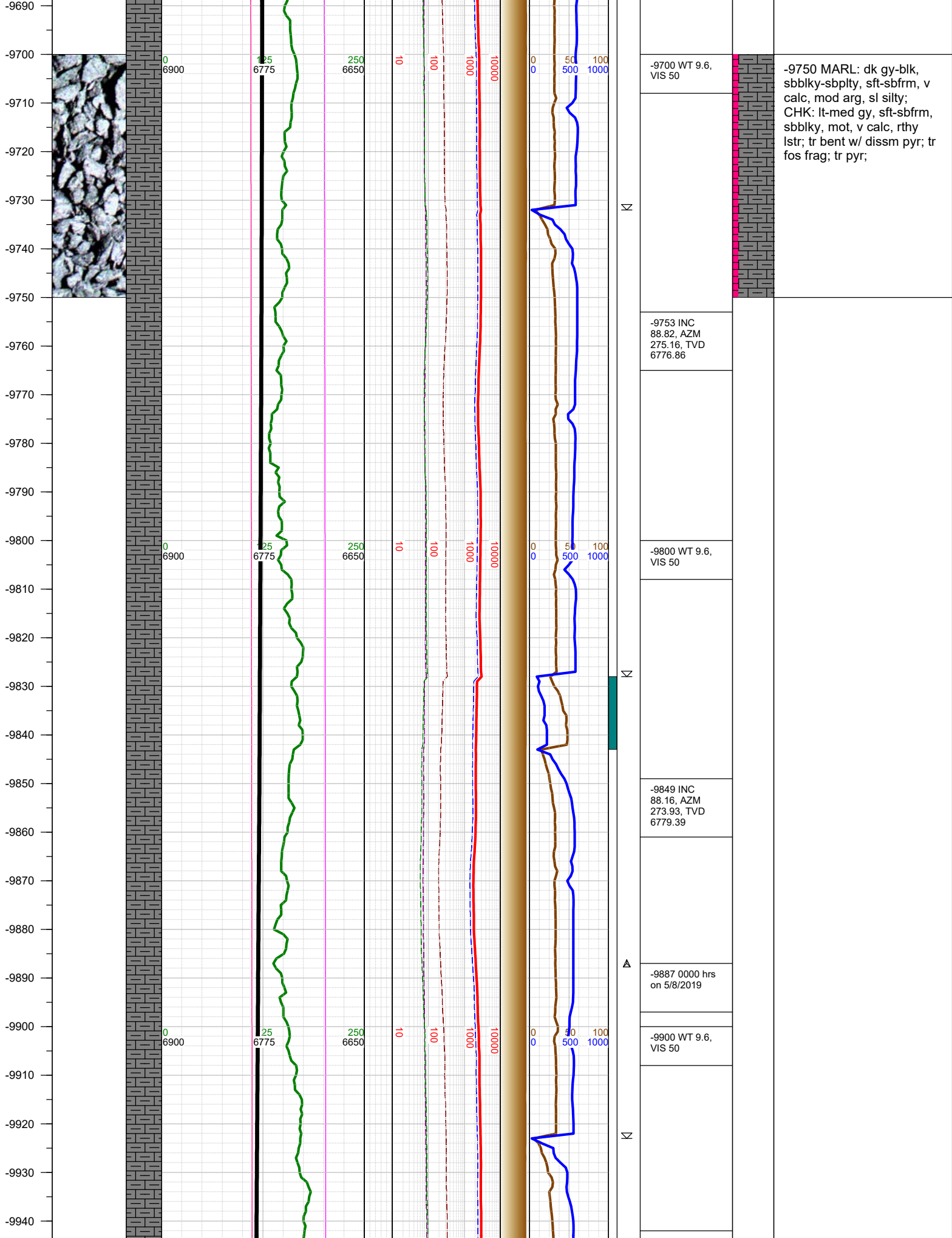
-8500 MARL: dk gy-blk,
sbbkly-sbpity, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy, sft-sbfrm,
sbbkly, mot, v calc, rthy
lstr; tr bent; tr pyr; tr fos
frag;

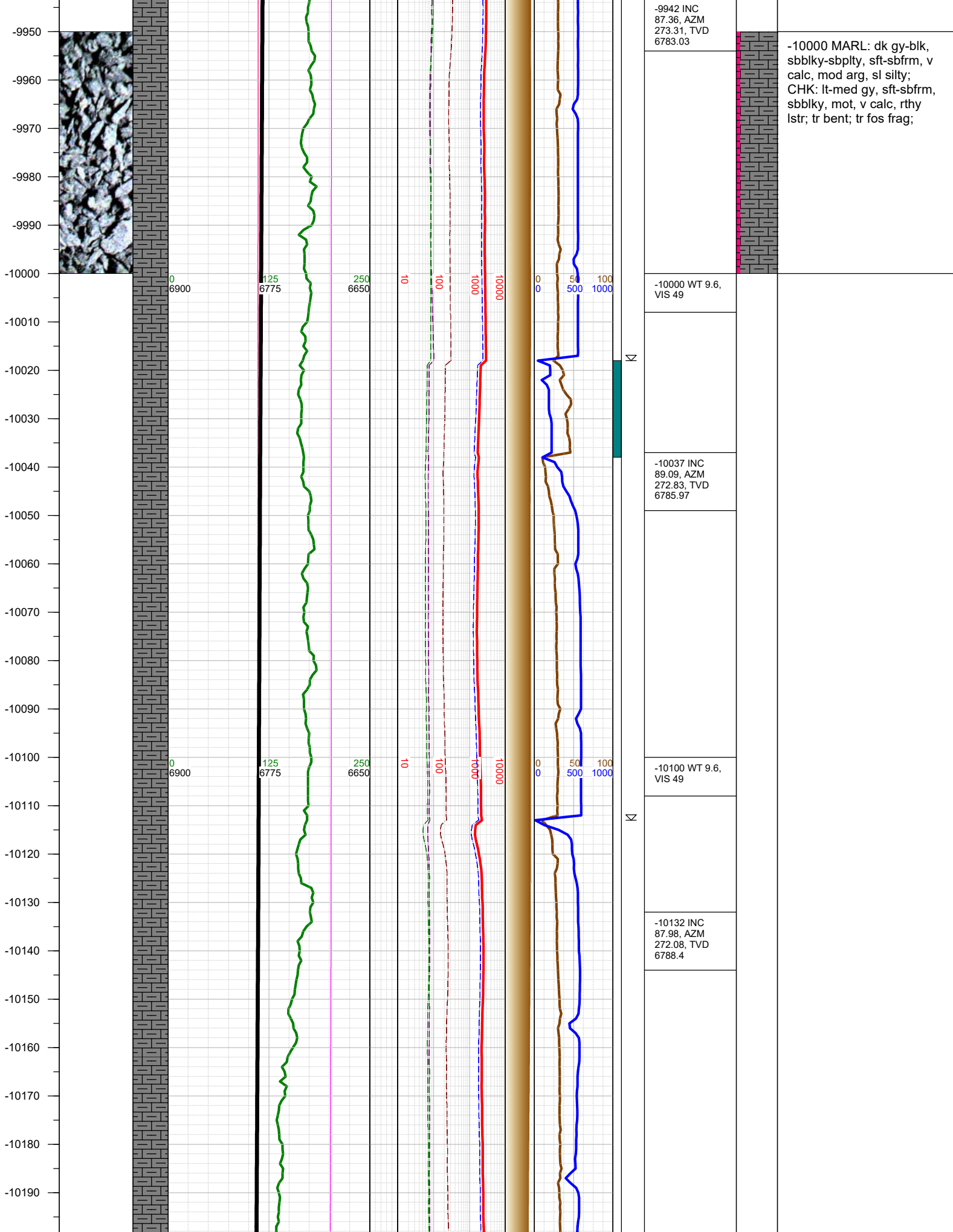


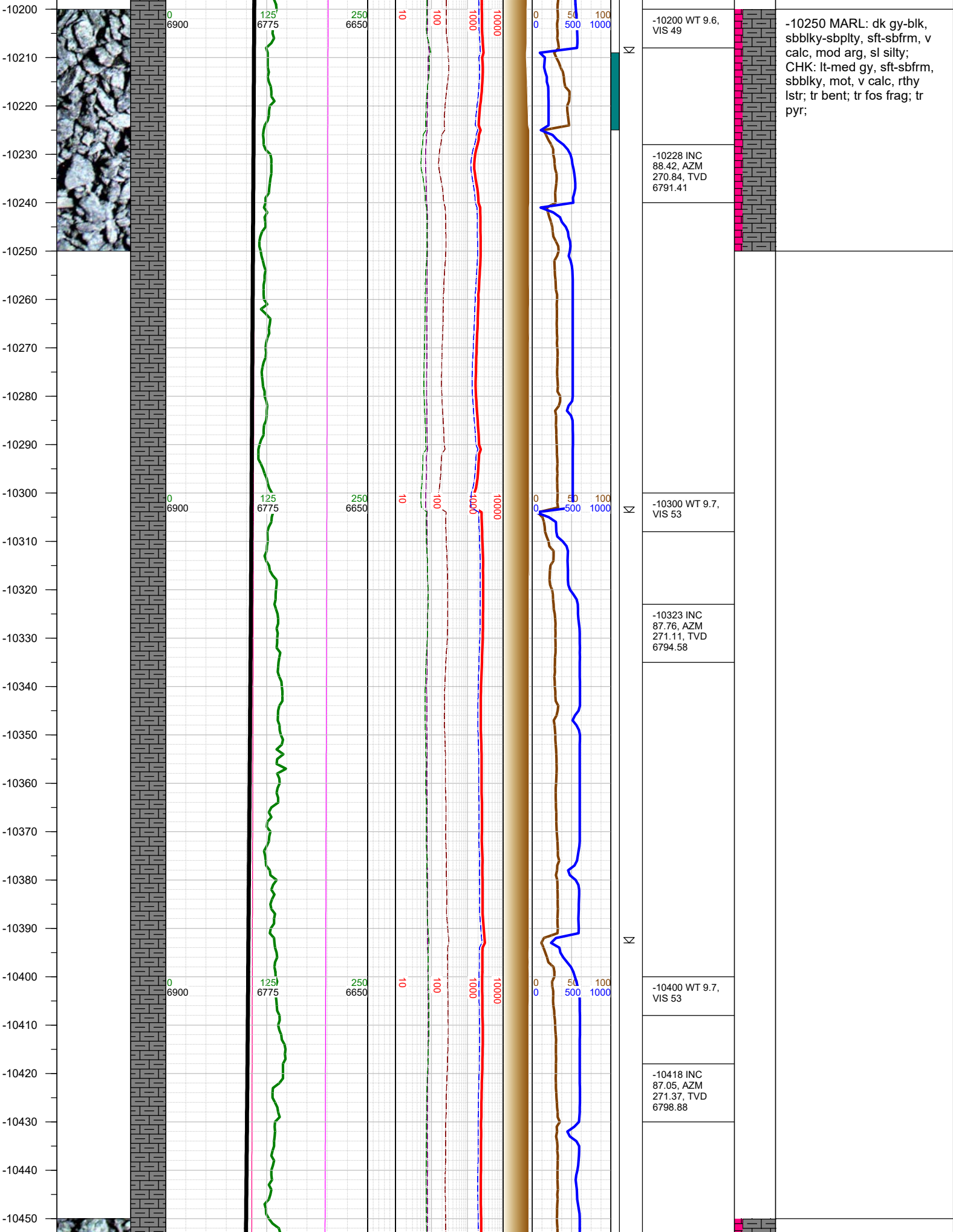


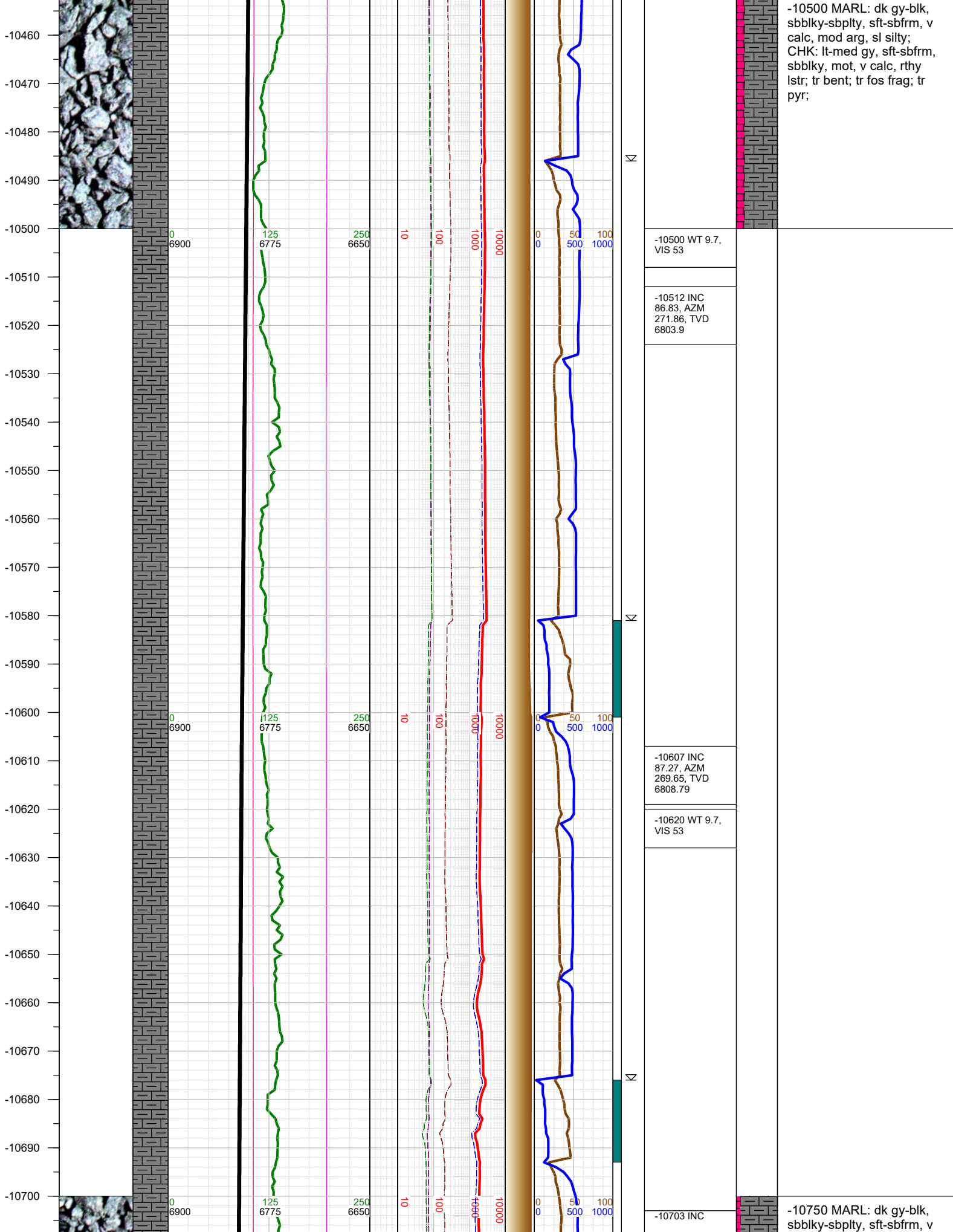












-10500 MARL: dk gy-blk, sbblky-sbply, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr bent; tr fos frag; tr pyr;

-10500 WT 9.7, VIS 53

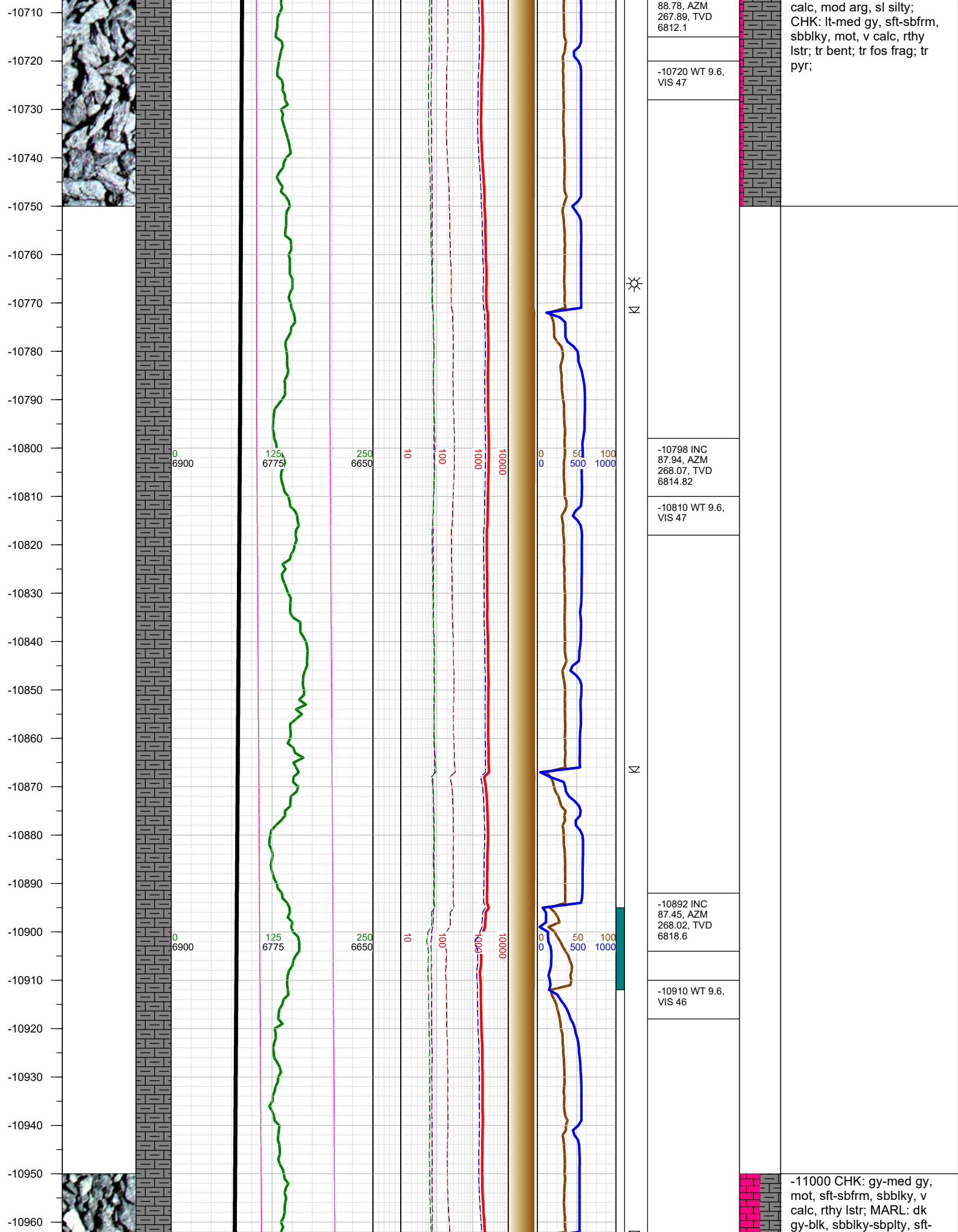
-10512 INC
86.83, AZM
271.86, TVD
6803.9

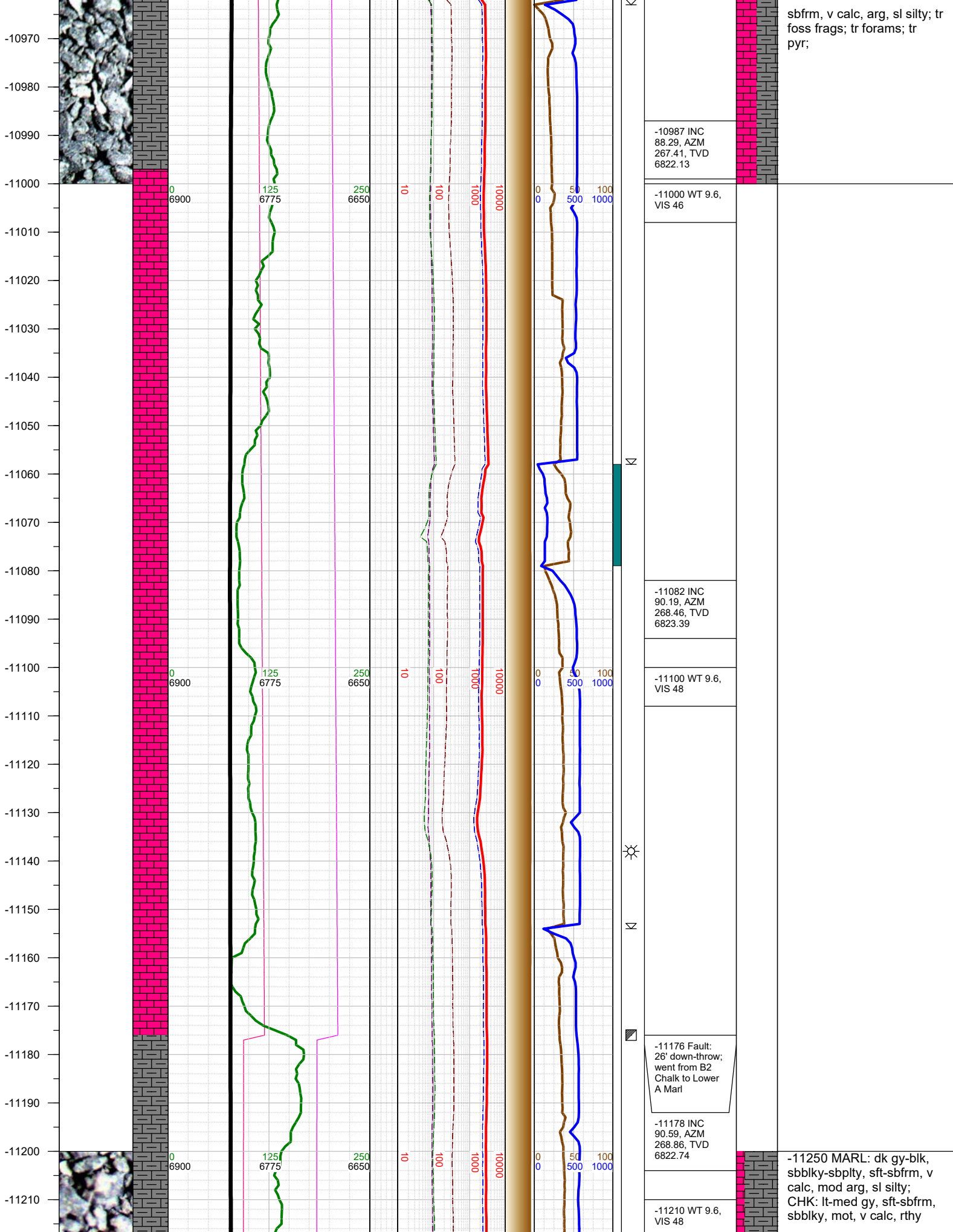
-10607 INC
87.27, AZM
269.65, TVD
6808.79

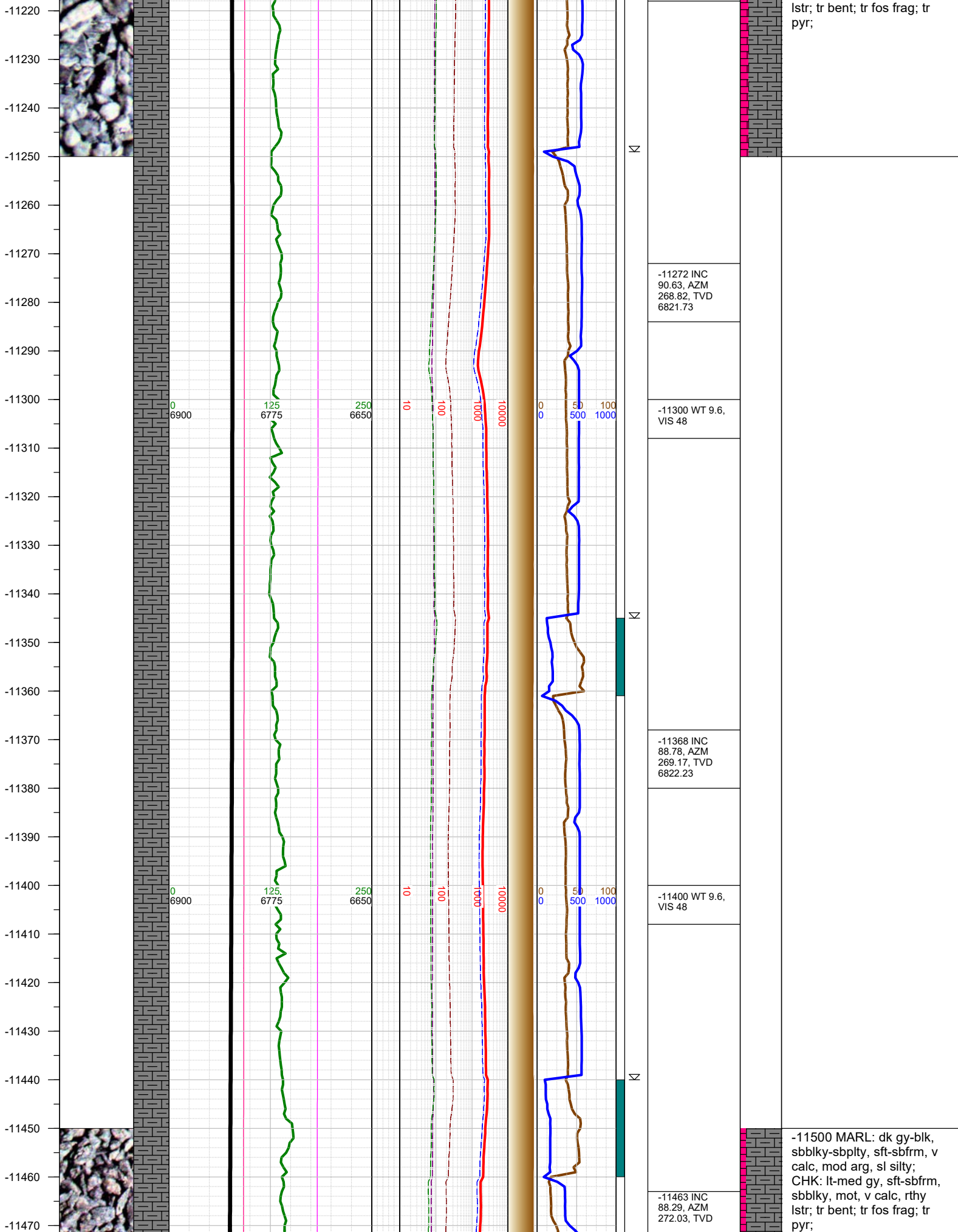
-10620 WT 9.7, VIS 53

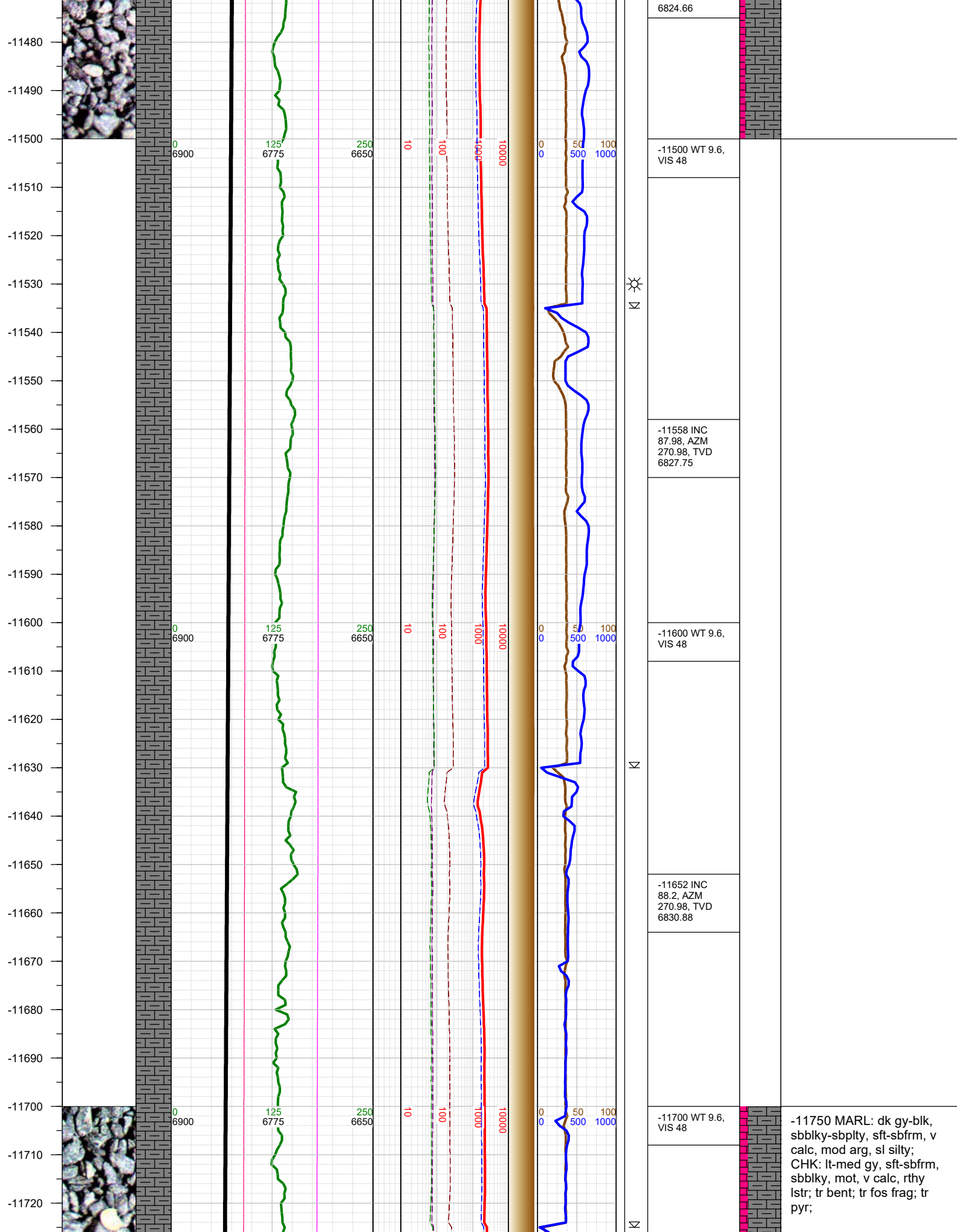
-10703 INC

-10750 MARL: dk gy-blk, sbblky-sbply, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr bent; tr fos frag; tr pyr;

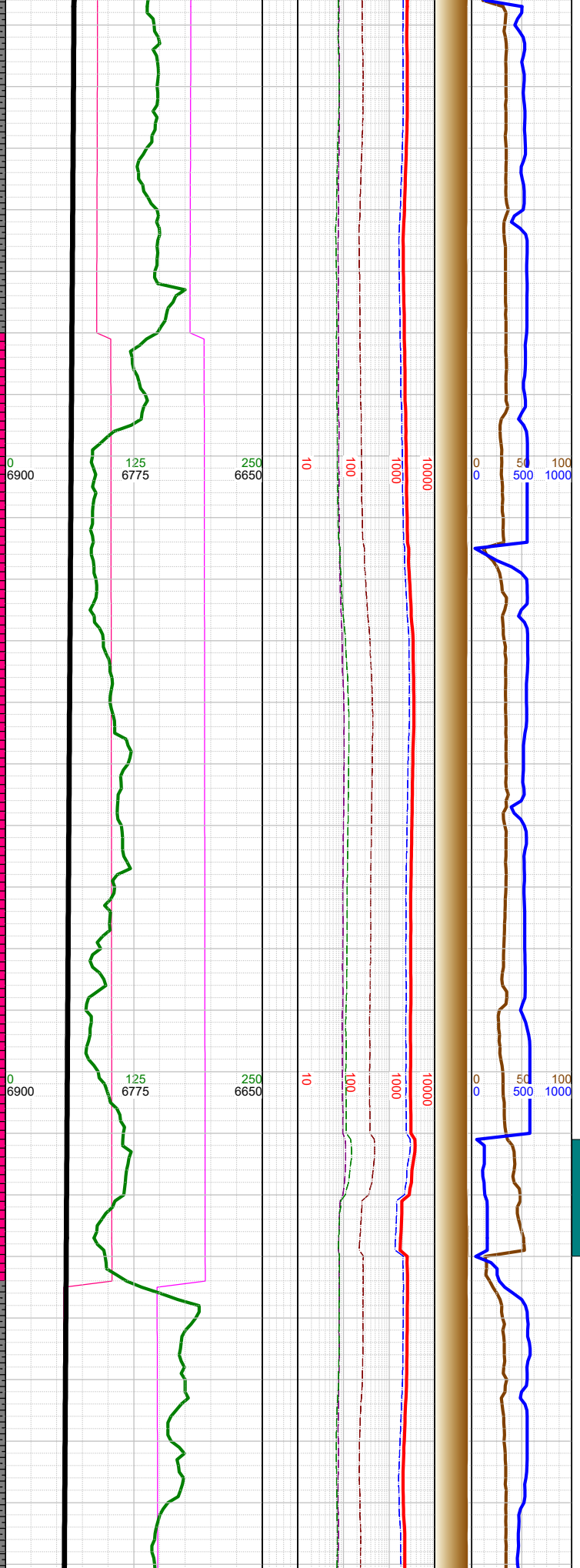








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-11748 INC
87.89, AZM
270.8, TVD
6834.16

-11780 Fault:
14' up-throw;
went from Lower
A Marl to B2
Chalk

-11800 WT 9.6,
VIS 48

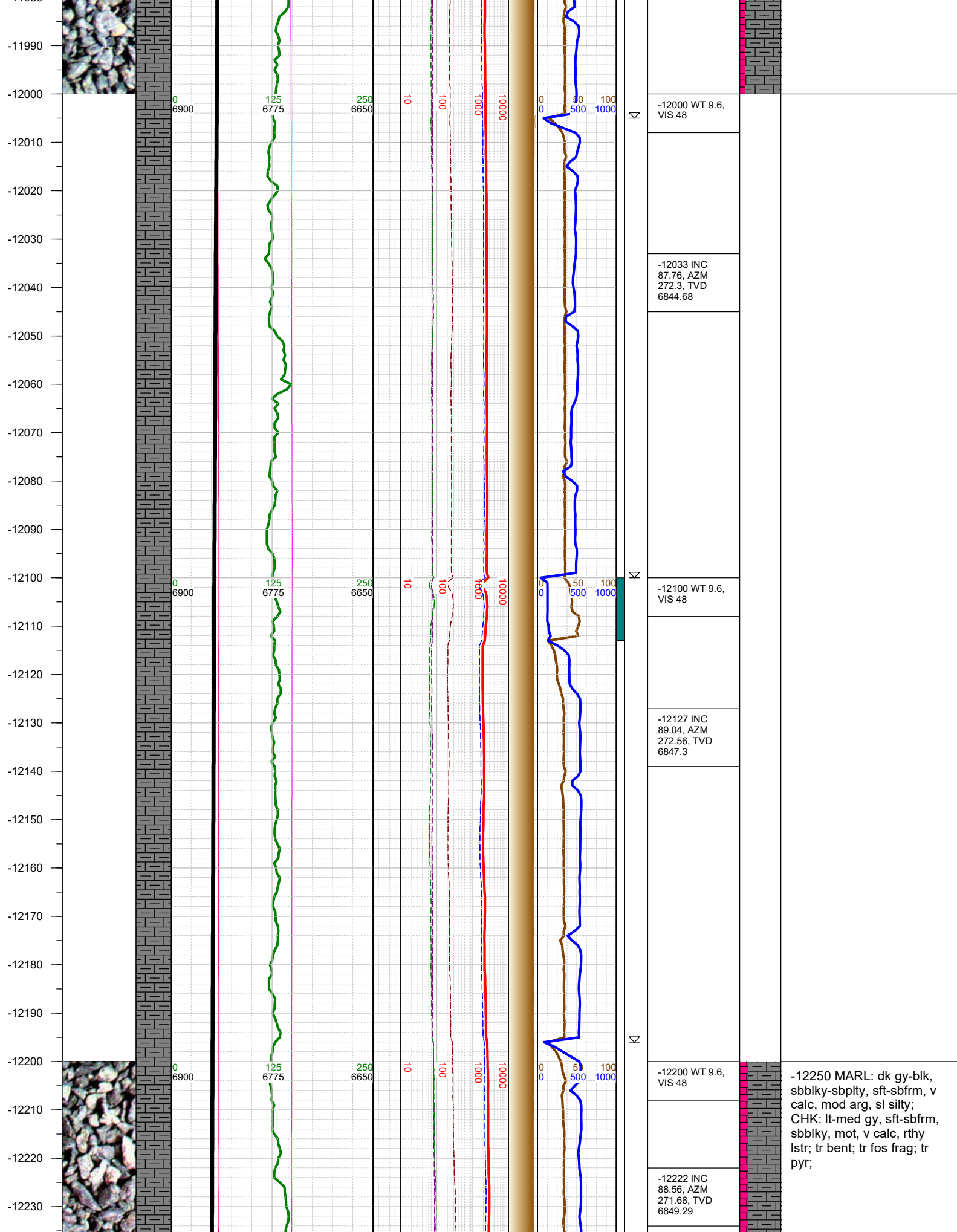
-11842 INC
87.76, AZM
269.74, TVD
6837.73

-11900 WT 9.6,
VIS 48

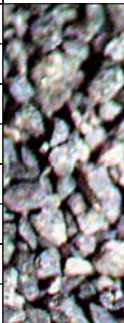
-11934 Fault:
47' down-throw;
went from B2
Chalk to A Marl

-11937 INC
88.07, AZM
272.61, TVD
6841.18

-12000 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; tr bent; tr fos frag; tr
pyr;



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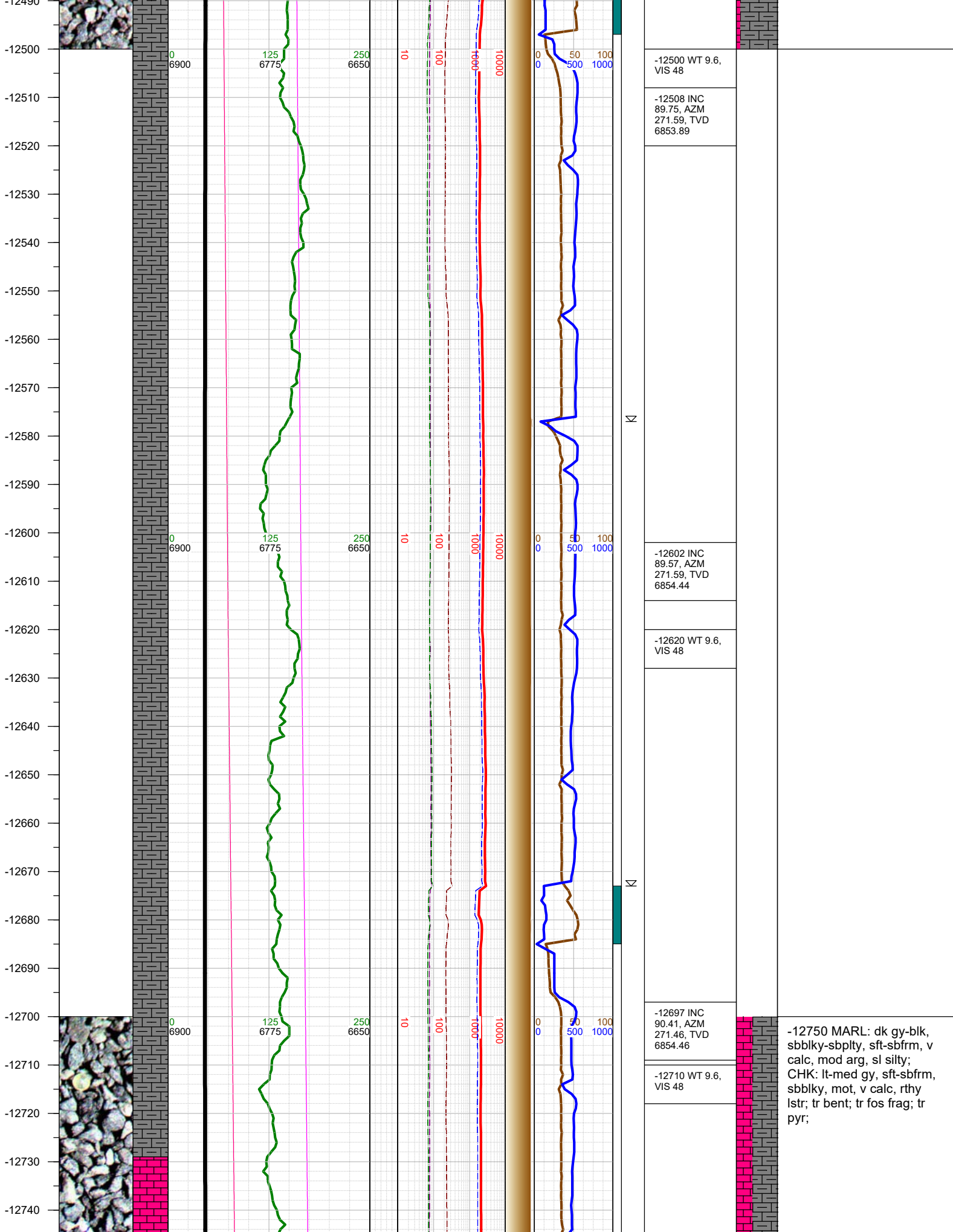
-12300 WT 9.6,
VIS 48

-12317 INC
89.22, AZM
271.99, TVD
6851.13

-12400 WT 9.6,
VIS 48

-12412 INC
88.86, AZM
271.24, TVD
6852.72

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



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-12793 INC
90.94, AZM
271.42, TVD
6853.33

-12810 WT 9.6,
VIS 48

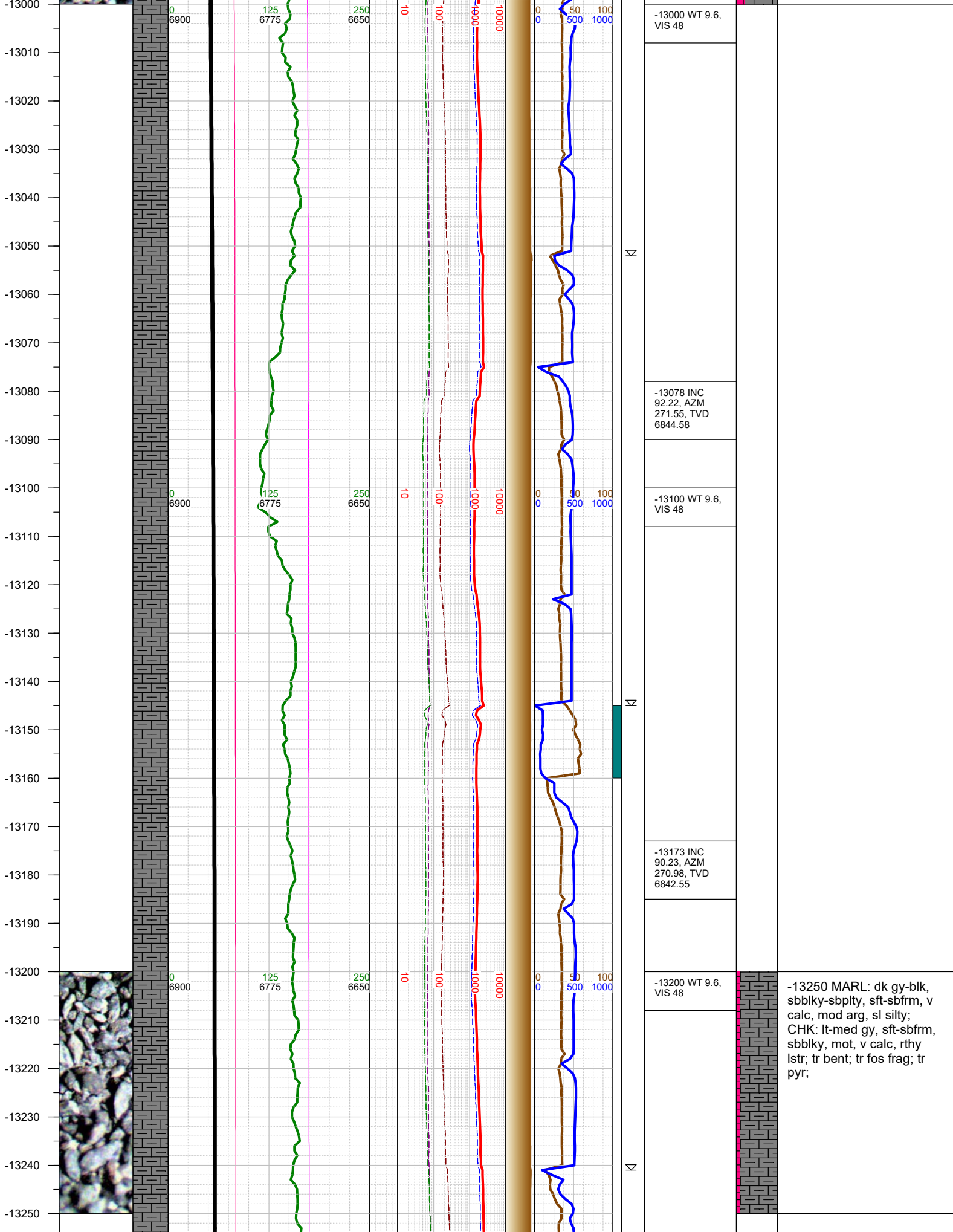
-12865 Fault:
11' down-throw;
went from B2
Chalk to Lower
A Marl

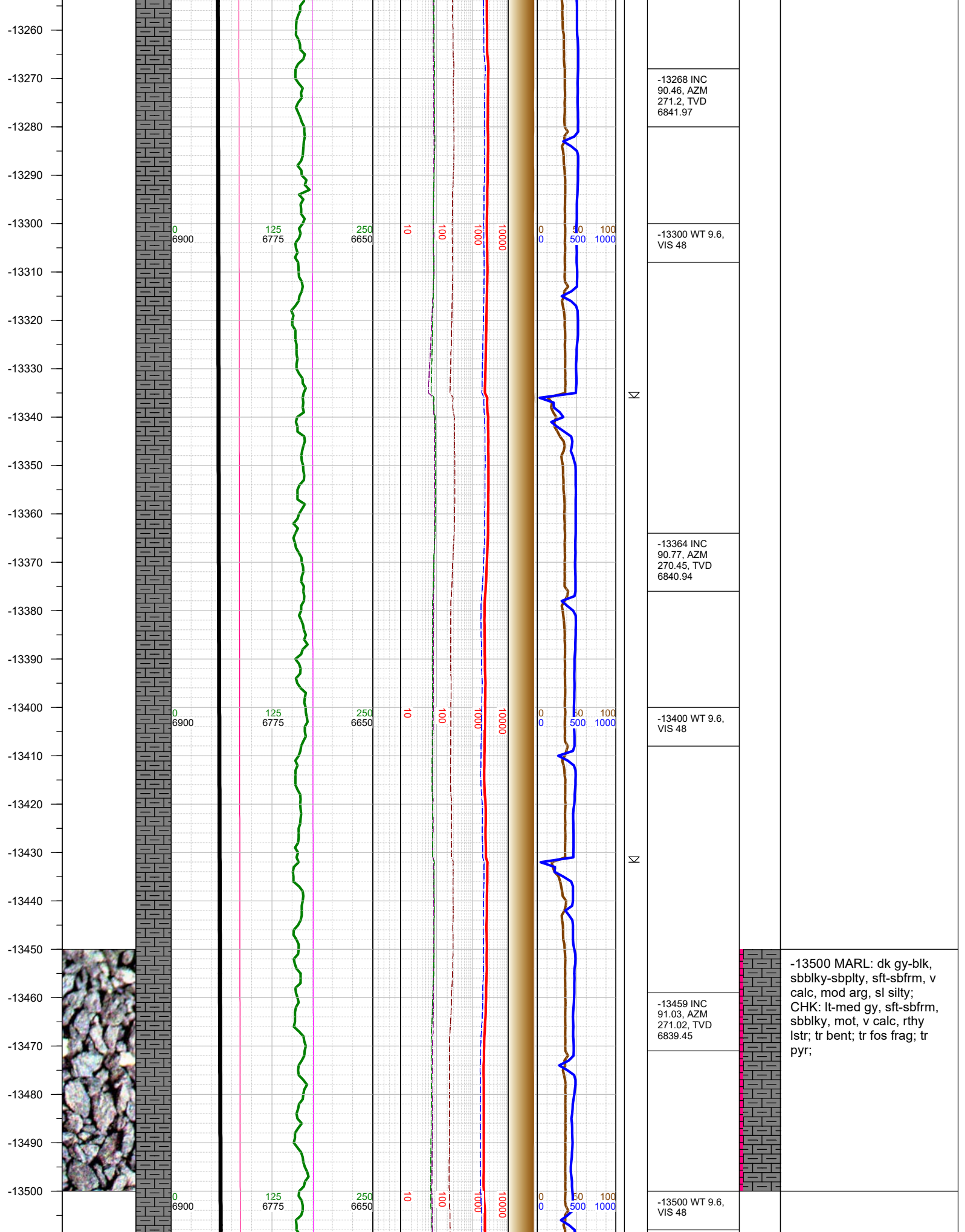
-12888 INC
92.05, AZM
271.15, TVD
6850.85

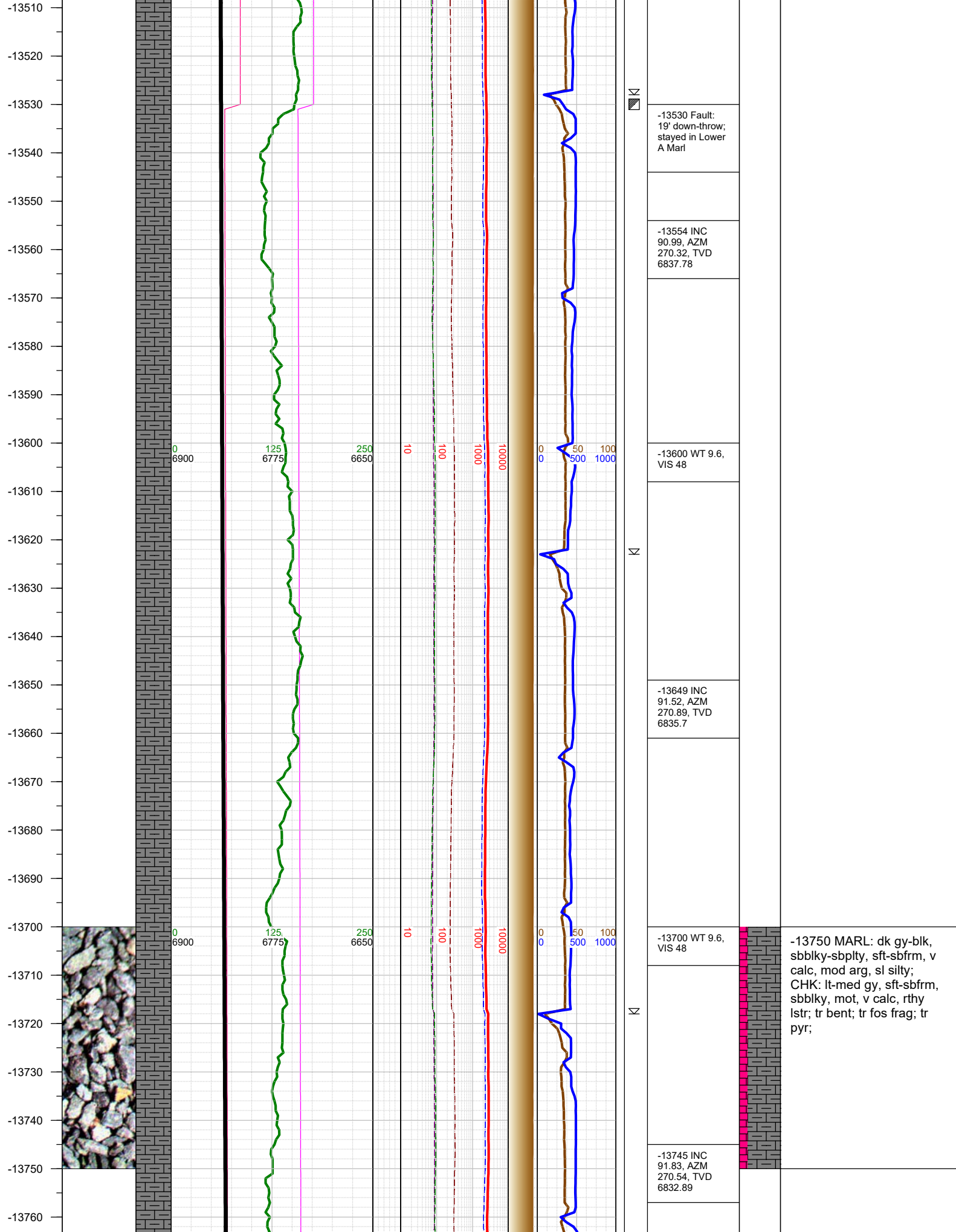
-12900 WT 9.6,
VIS 48

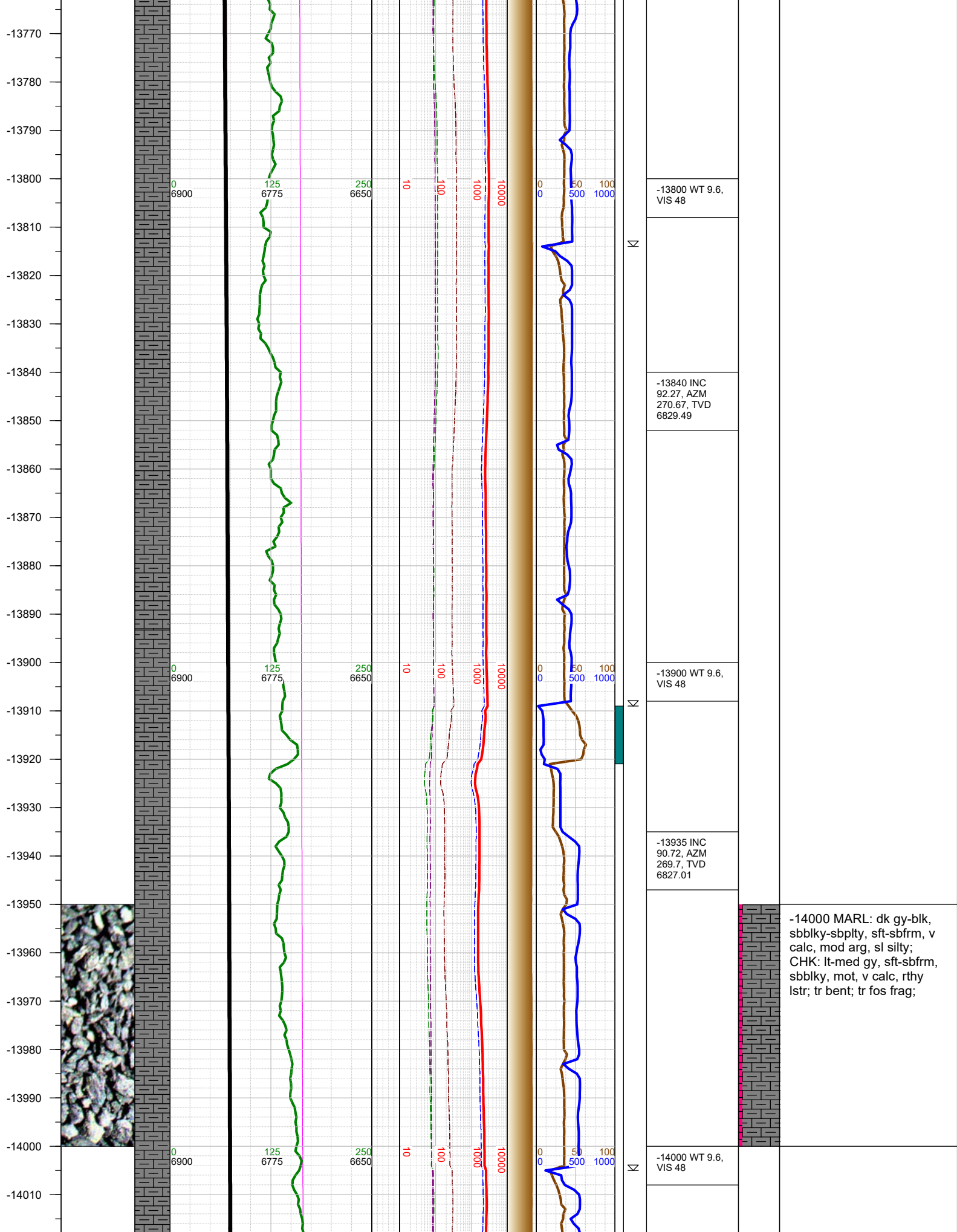
-12983 INC
91.65, AZM
272.34, TVD
6847.78

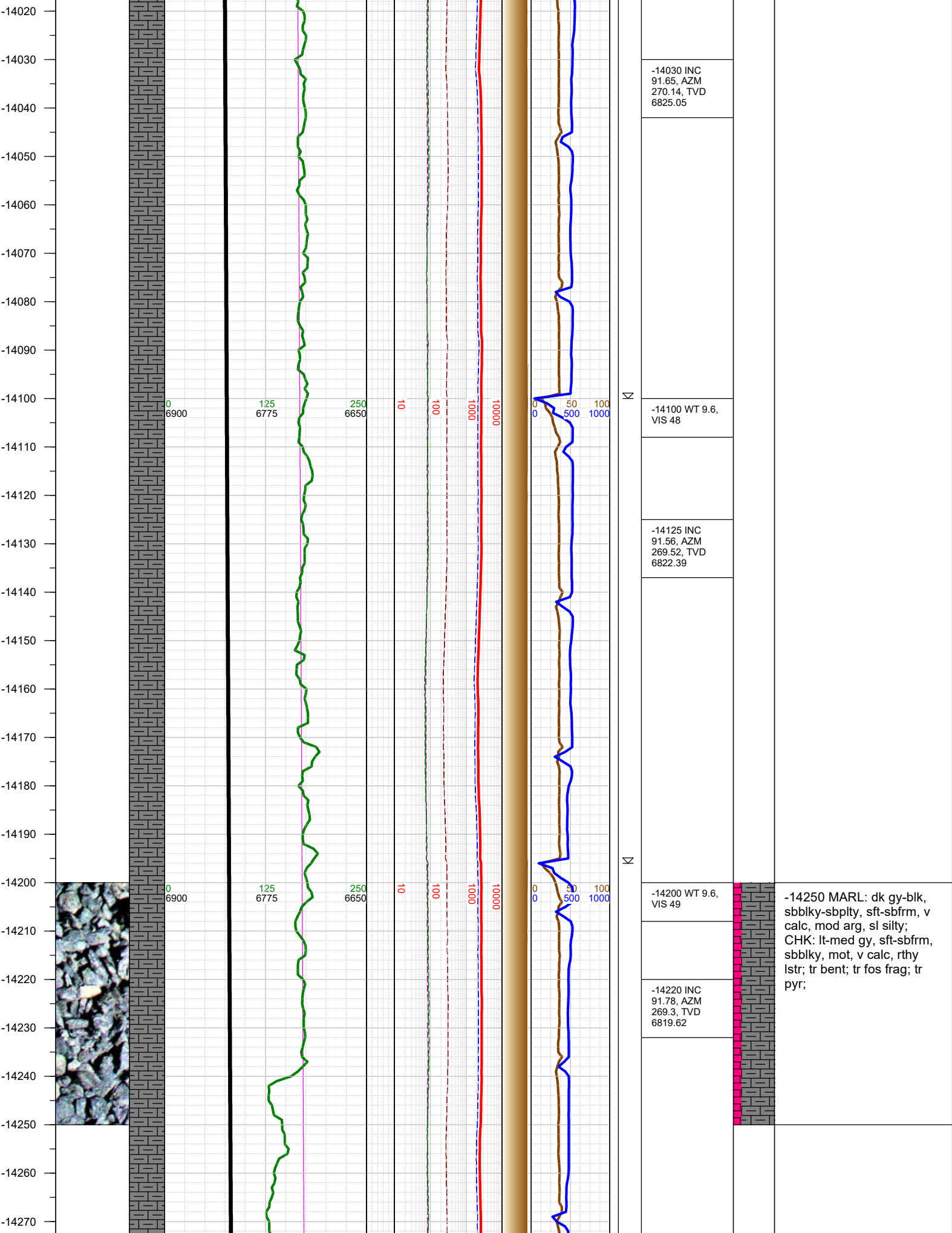
-13000 MARL: dk gy-blk,
sbbiky-sbpity, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy, sft-sbfrm,
sbbiky, mot, v calc, rthy
lstr; tr bent; tr fos frag; tr
pyr;

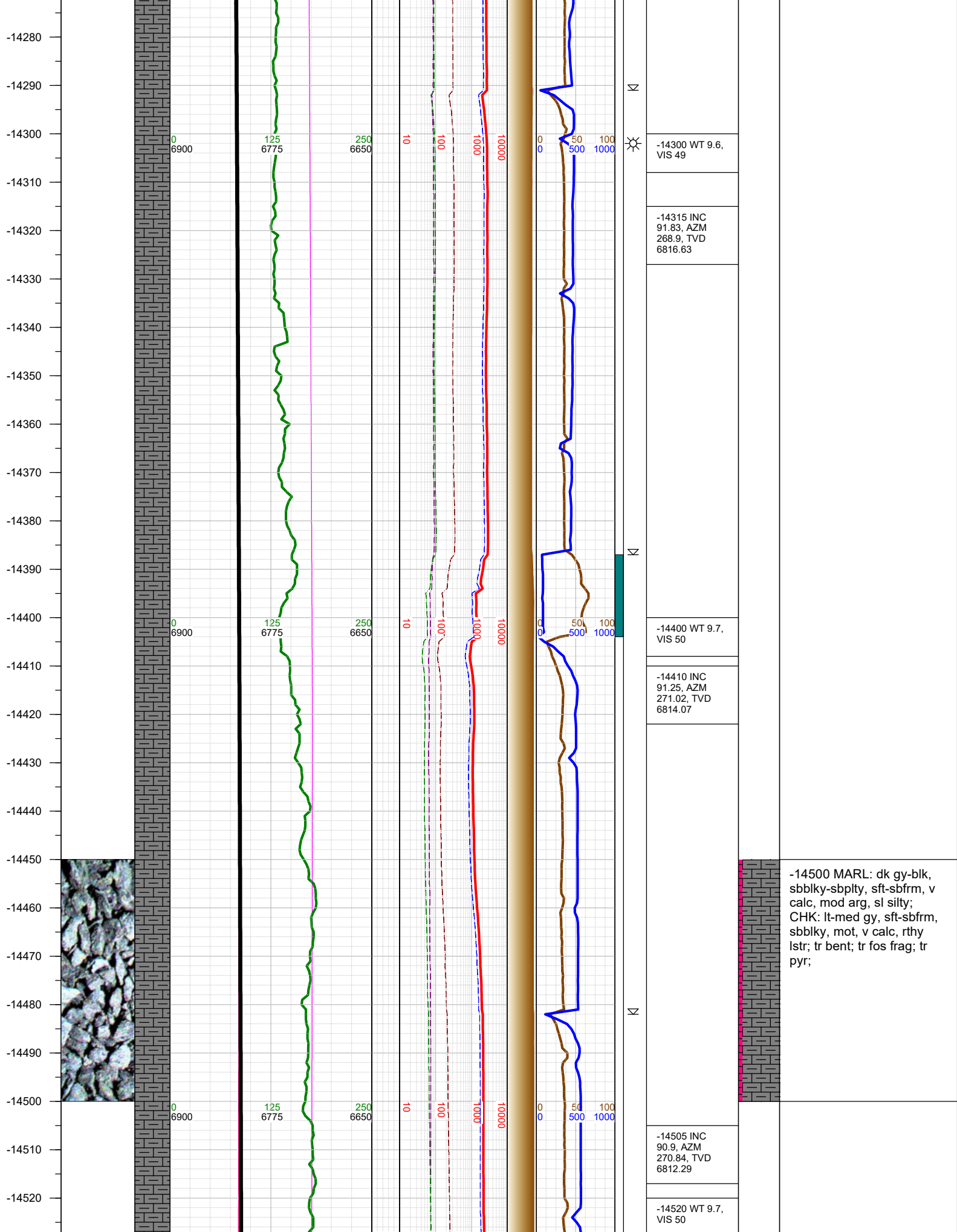




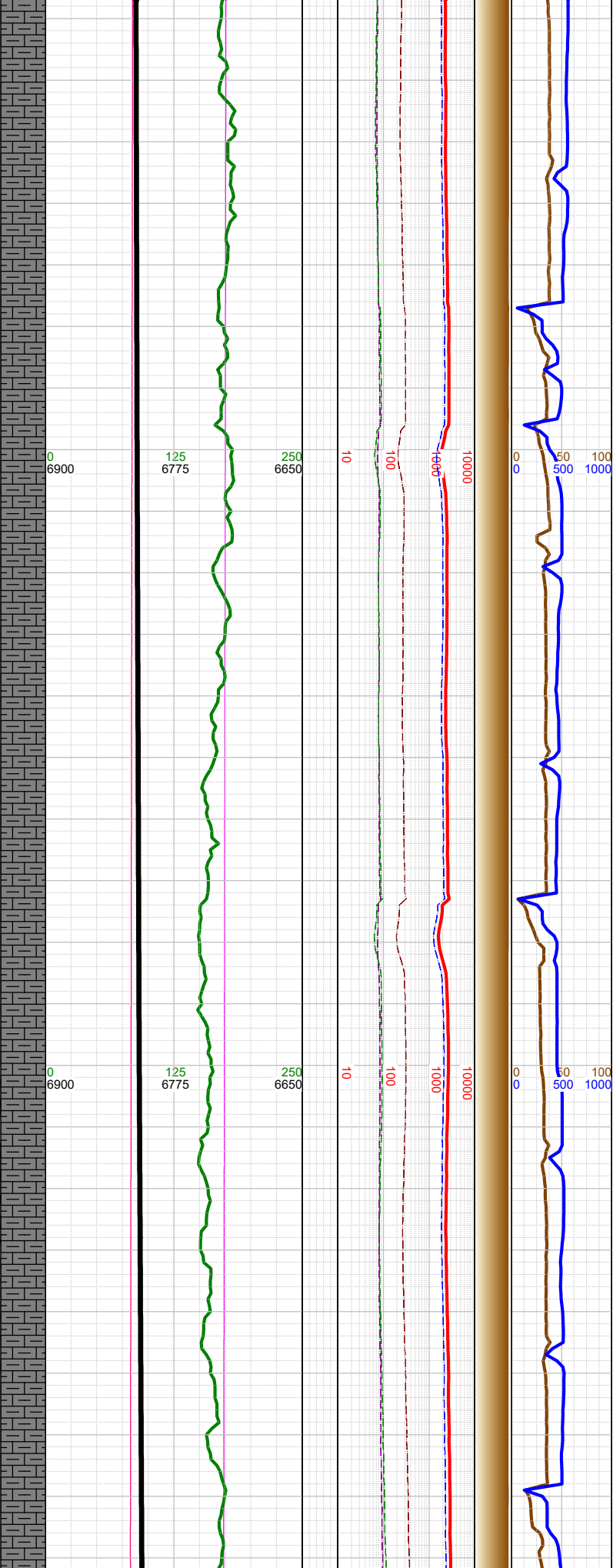
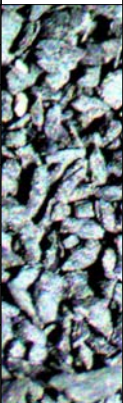








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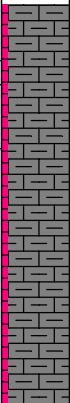


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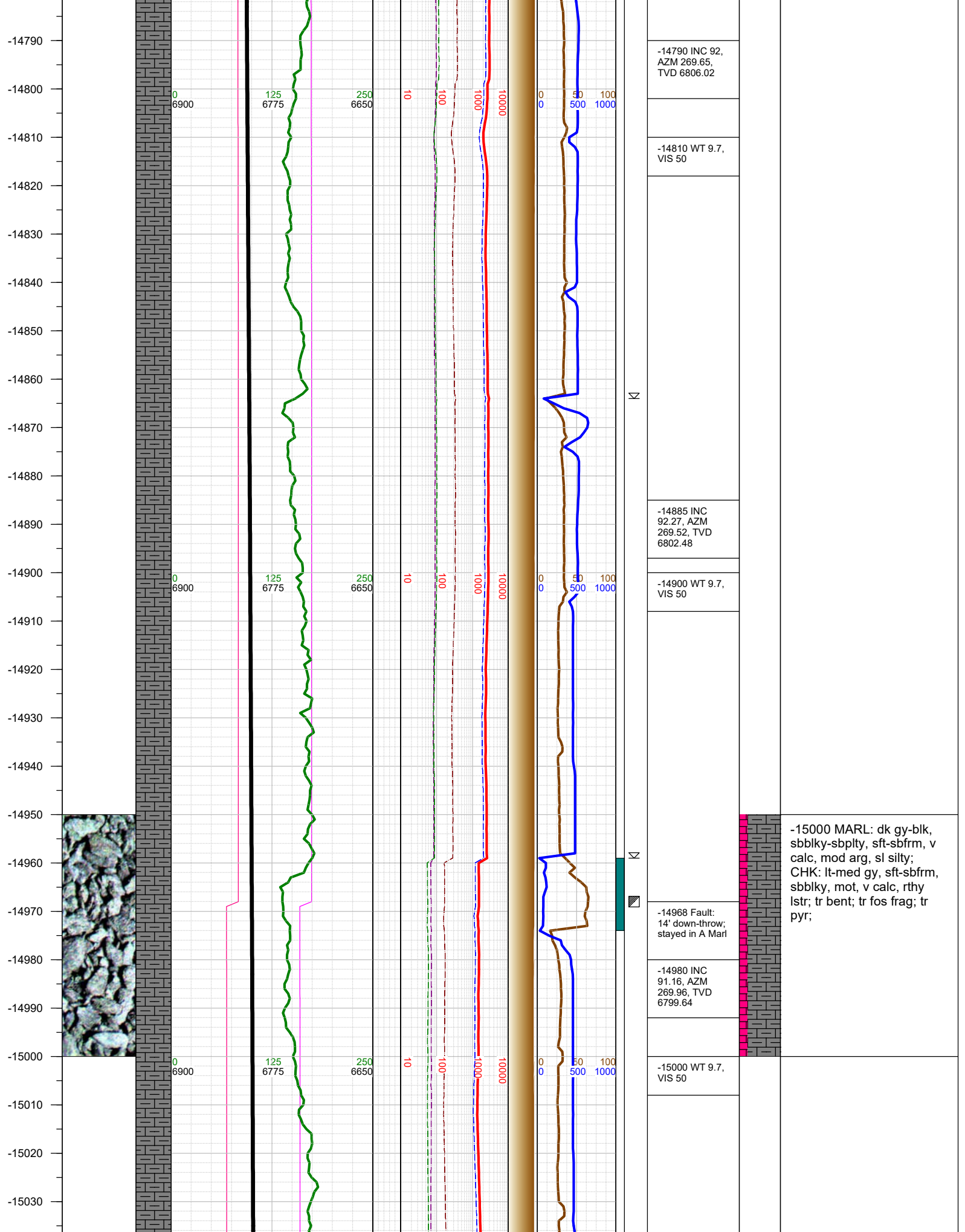
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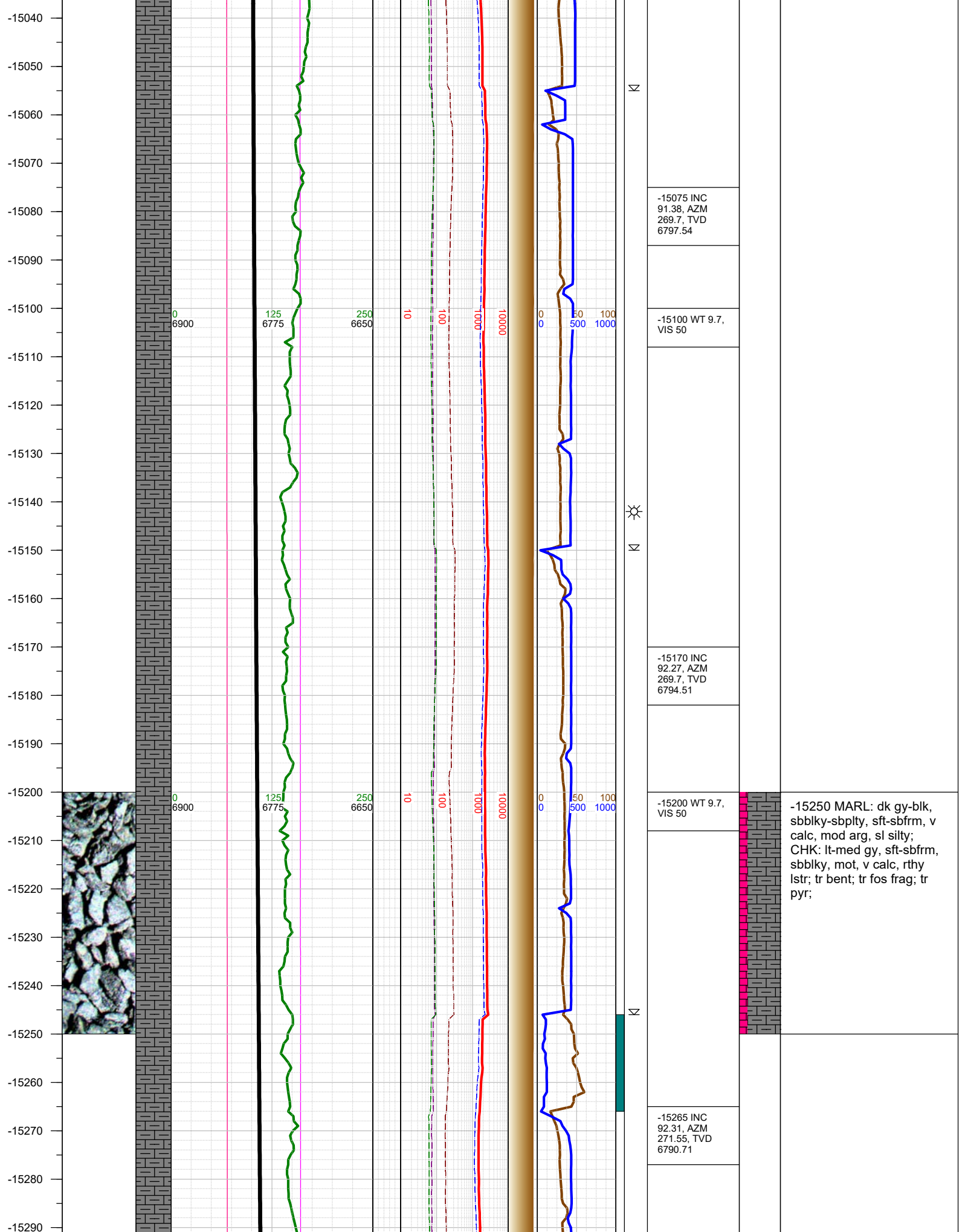
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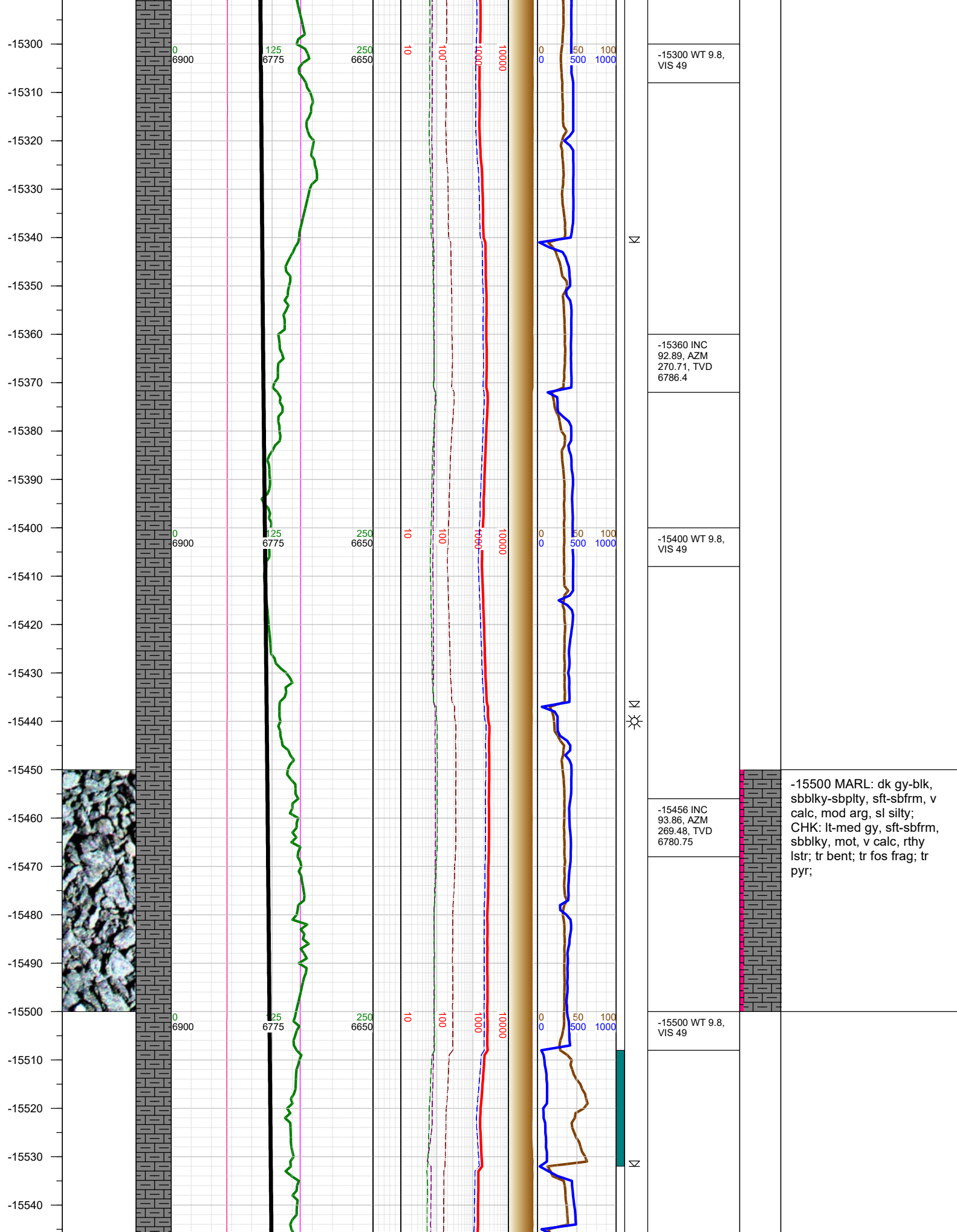
	-14600 INC 90.81, AZM 269.96, TVD 6810.87
	-14620 WT 9.7, VIS 50
	-14695 INC 91.52, AZM 270.71, TVD 6808.94
	-14710 WT 9.7, VIS 50



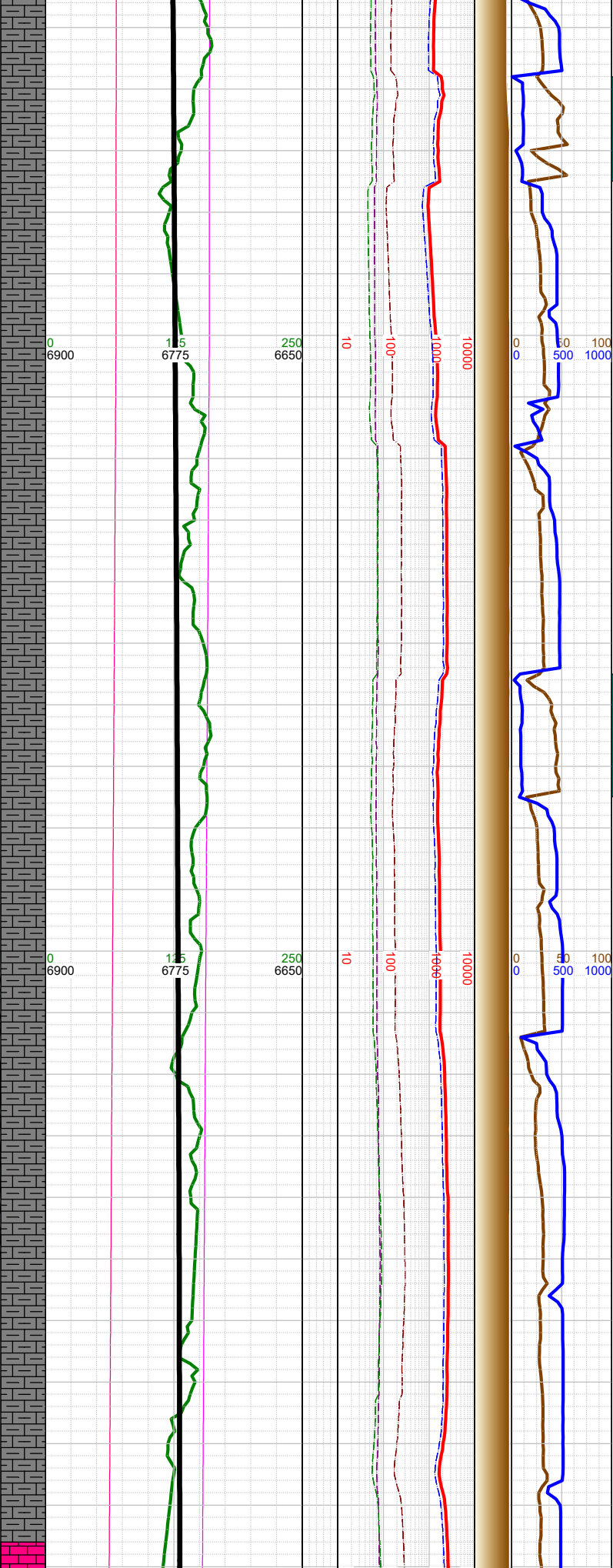
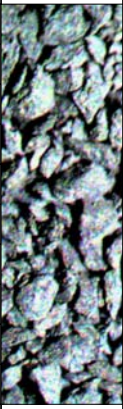
-14750 MARL: dk gy-blk,
sbbly-sbplty, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; tr bent; tr fos frag; tr
pyr;







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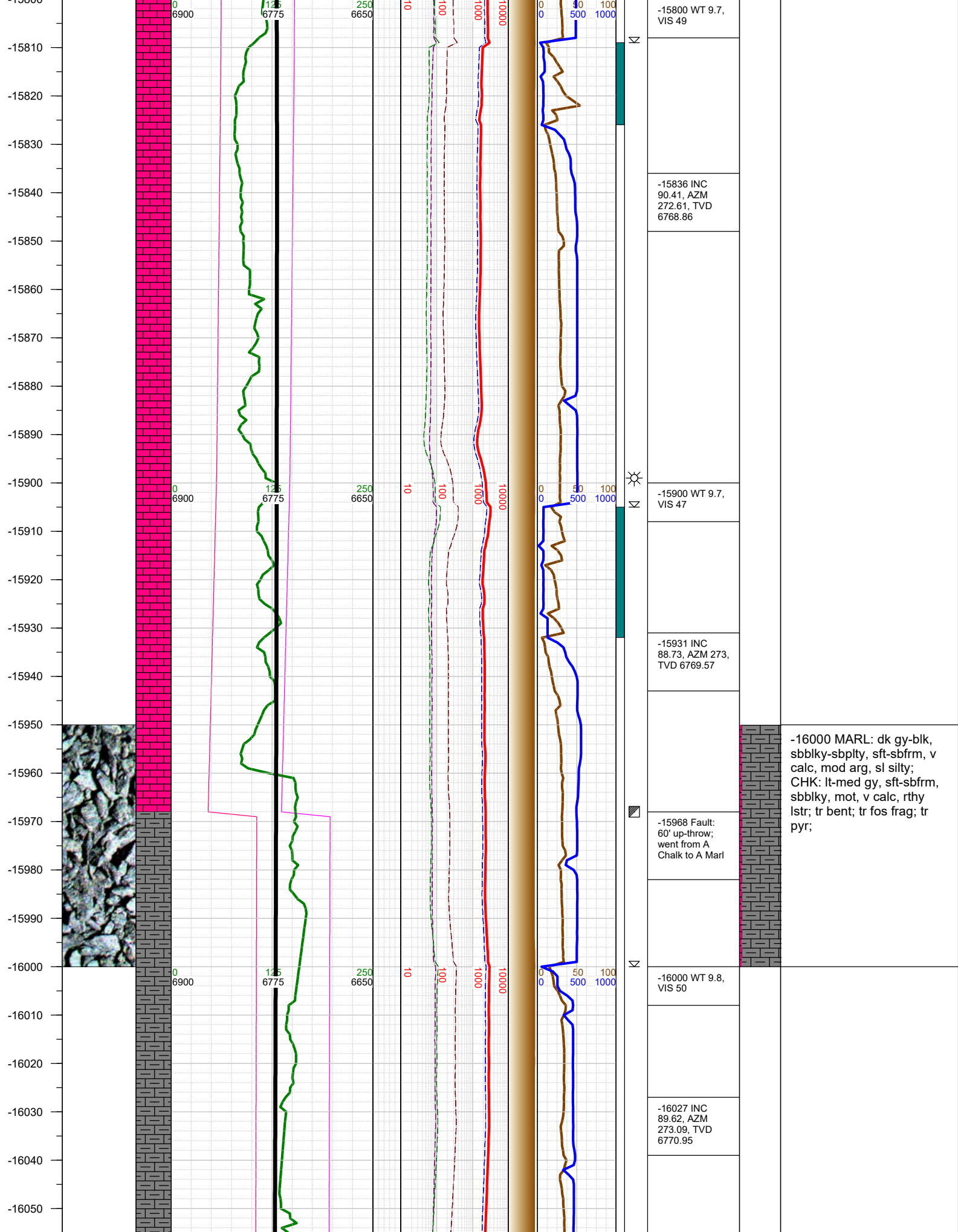


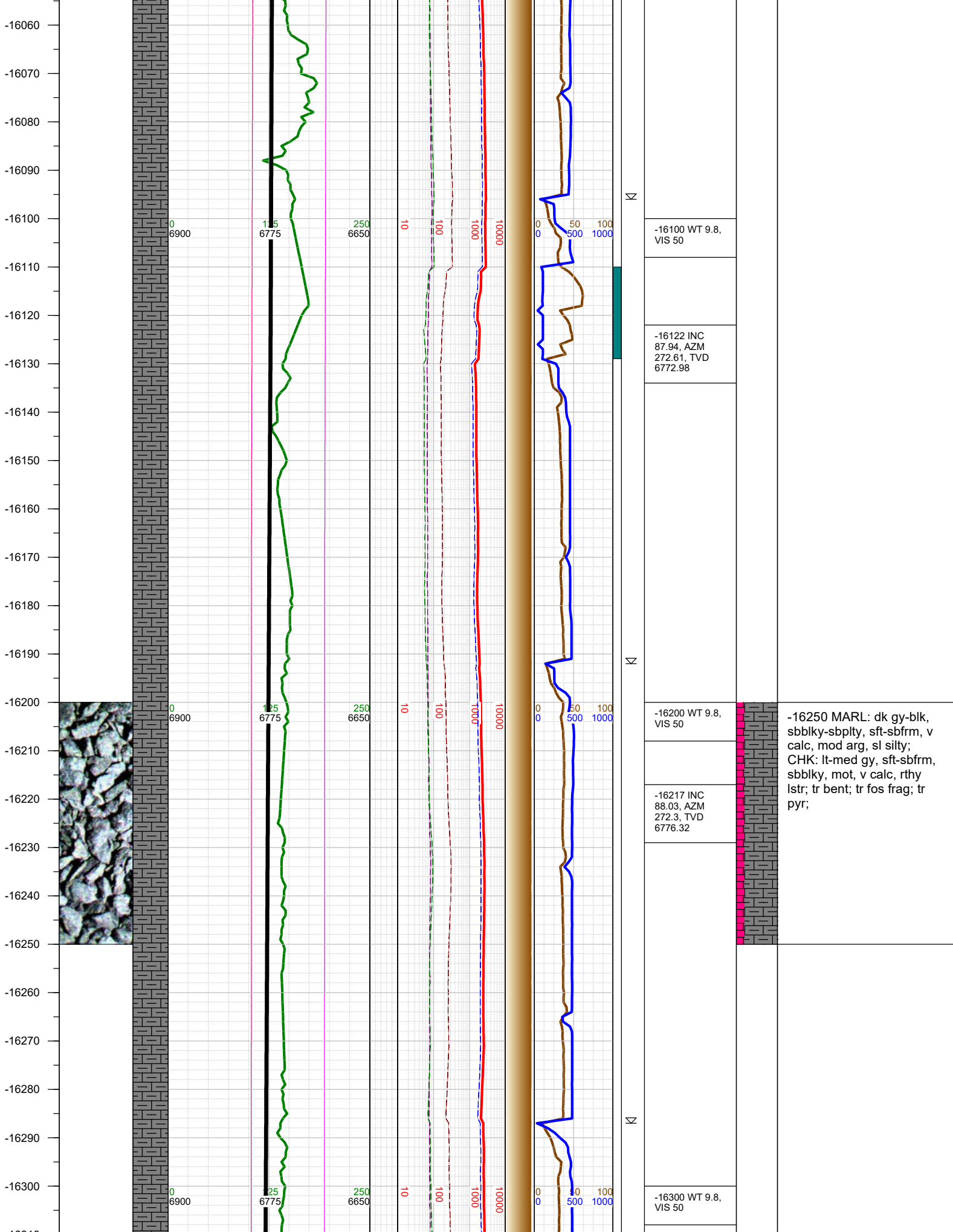
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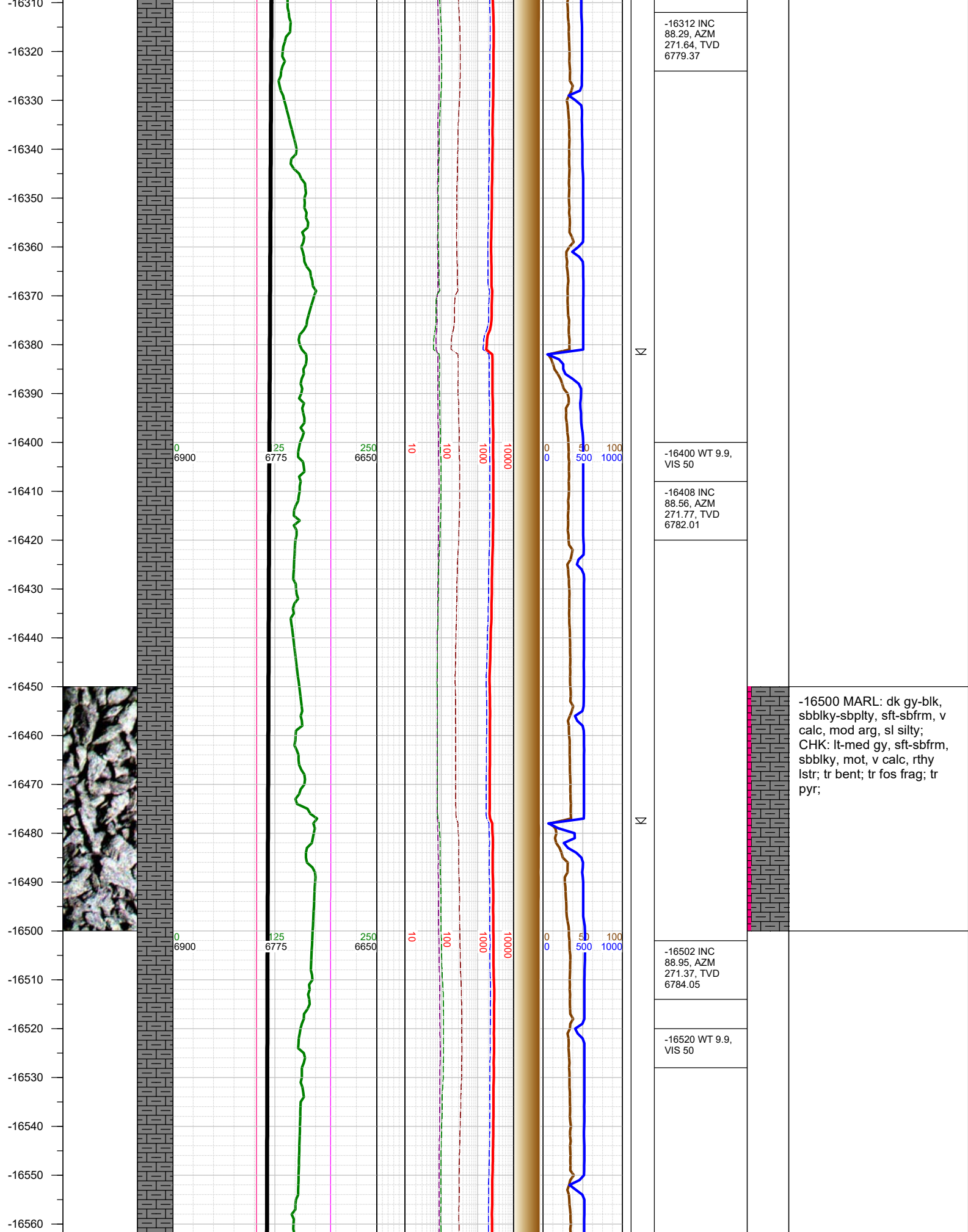
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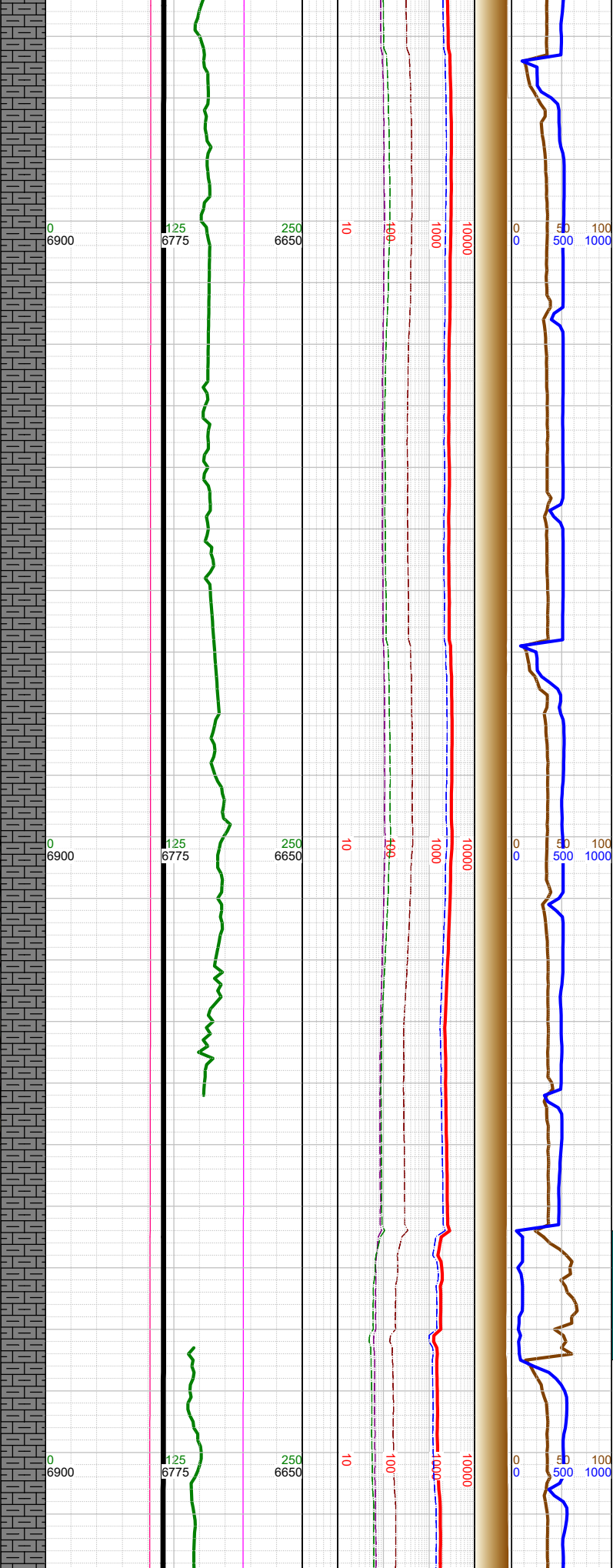
-15551 INC 92.27, AZM 271.06, TVD 6775.67		
-15600 WT 9.8, VIS 49		
-15617 0000 hrs on 5/9/2019		
-15646 INC 91.74, AZM 271.06, TVD 6772.35		
-15700 WT 9.7, VIS 49	-15750 MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; tr bent; tr fos frag; tr pyr;	
-15741 INC 91.03, AZM 272.39, TVD 6770.05		







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-16597 INC
89.62, AZM
270.98, TVD
6785.23

-16610 WT 9.9,
VIS 49

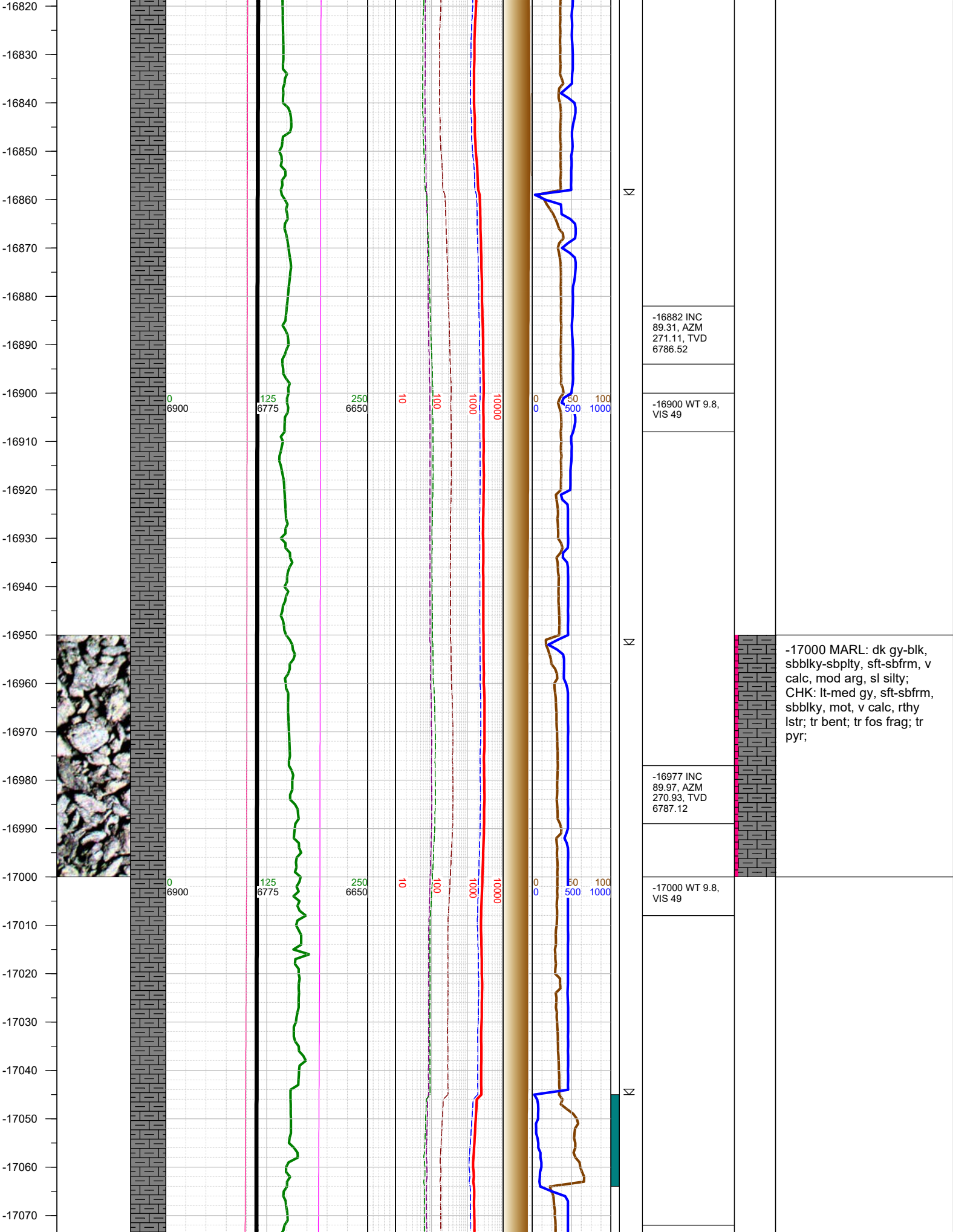
-16692 INC
90.59, AZM
271.59, TVD
6785.06

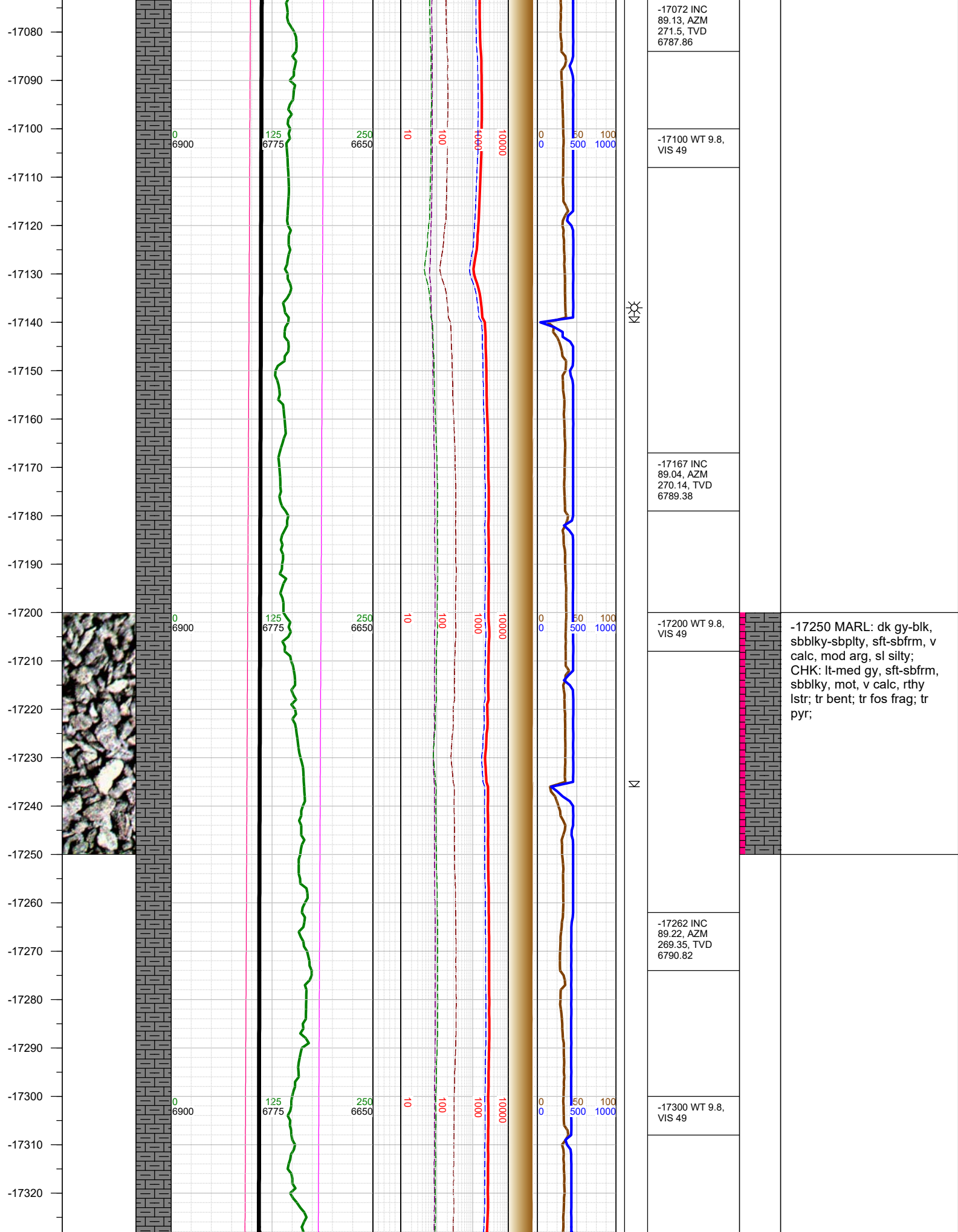
-16710 WT 9.8,
VIS 49

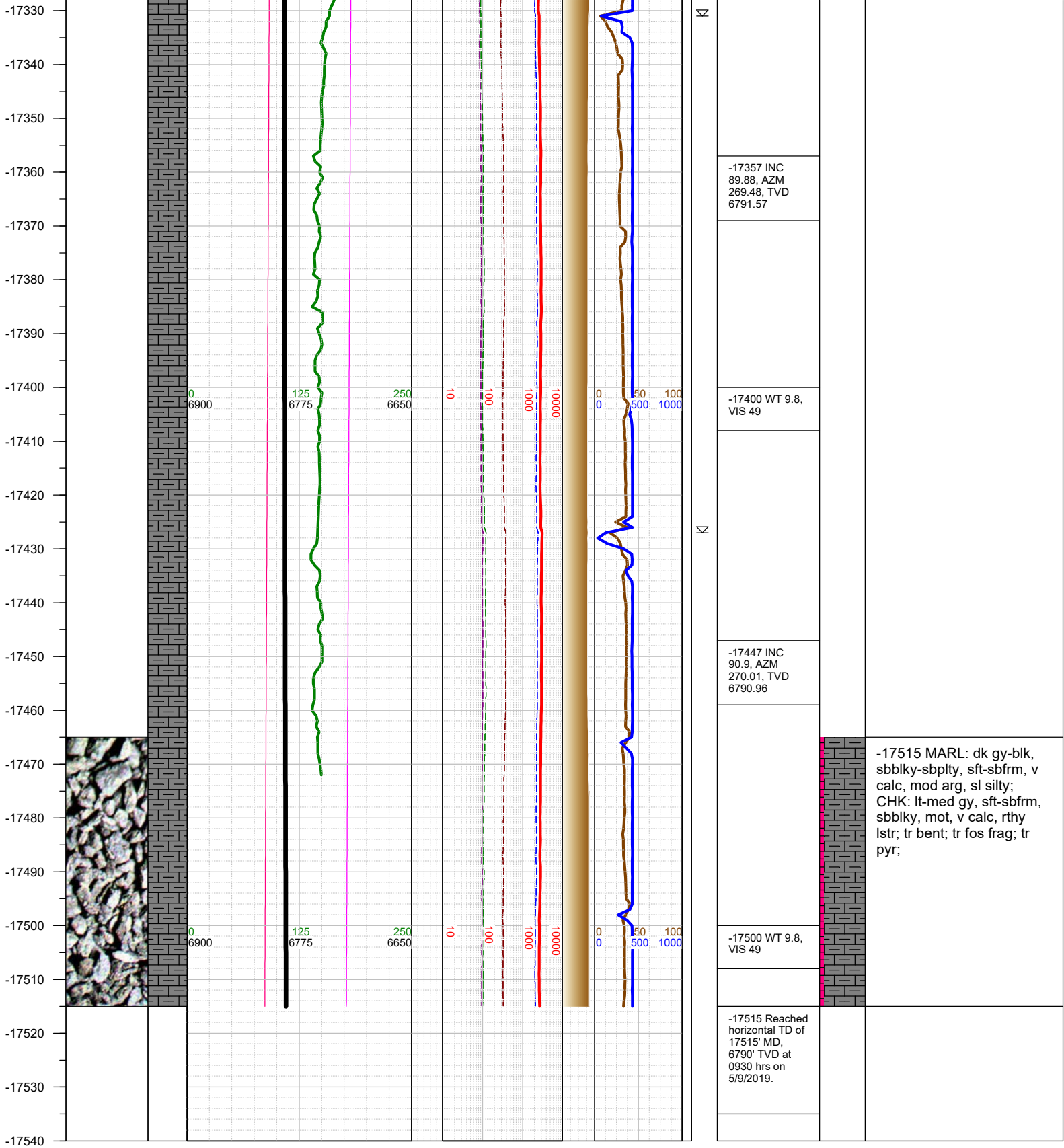
-16787 INC
89.17, AZM
271.95, TVD
6785.26

-16800 WT 9.8,
VIS 49

-16750 MARL: dk gy-blk,
sbbkly-sbpity, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy, sft-sbfrm,
sbbkly, mot, v calc, rthy
lstr; tr bent; tr fos frag; tr
pyr;







TOTAL DEPTH = 17515'

Thank you for using Earth Science Agency