

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **Varra 6**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 341

API #: 05-123-39989

LAT/LONG: 40.513009, -104.92388

SURFACE HOLE: NWSW S5-T6N-R67W, 1615' FSL, 788' FWL

BOTTOM HOLE: S4-T6N-R67W, 1790' FSL, 460' FEL

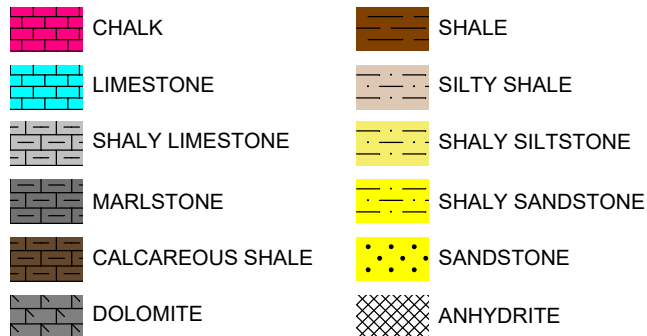


Earth Science Agency, LLC

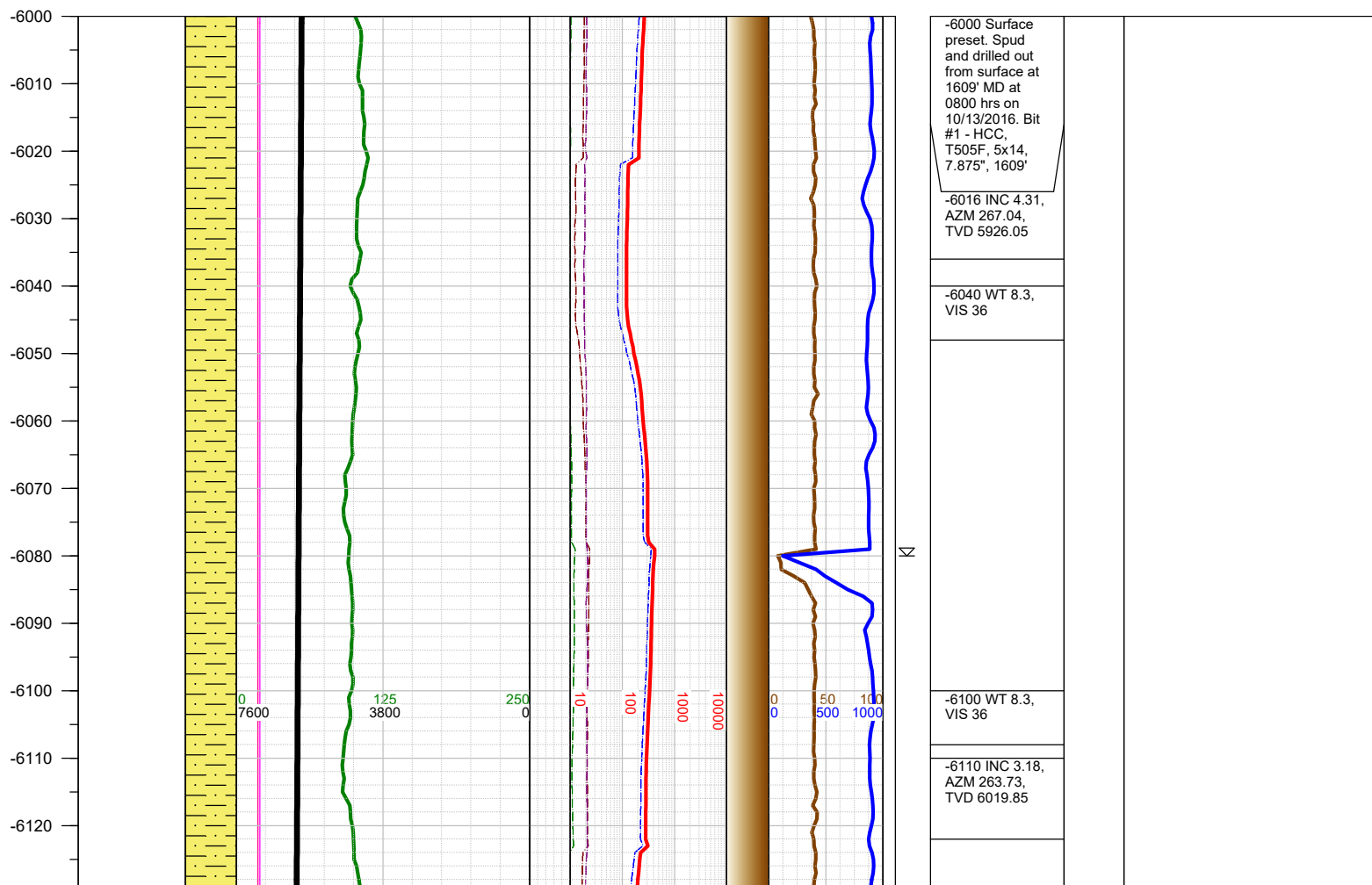
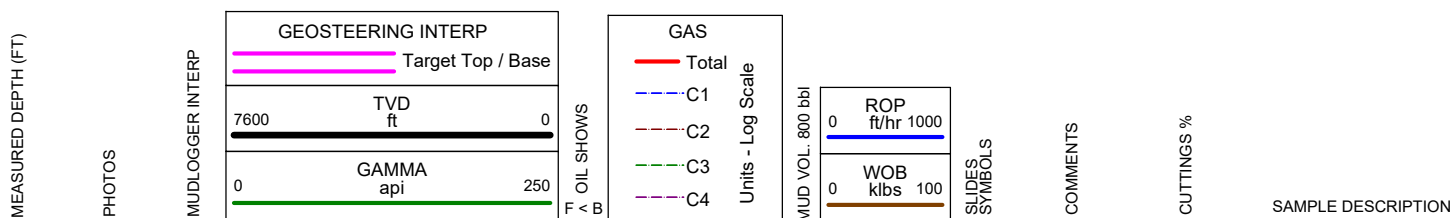
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4873'
KELLY BUSHING: 4898'
DRILLING FLUID: OBM
TVD VS. MD: 7127' / 17004'
SPUD DATE: October 13, 2016
TD DATE: October 16, 2016

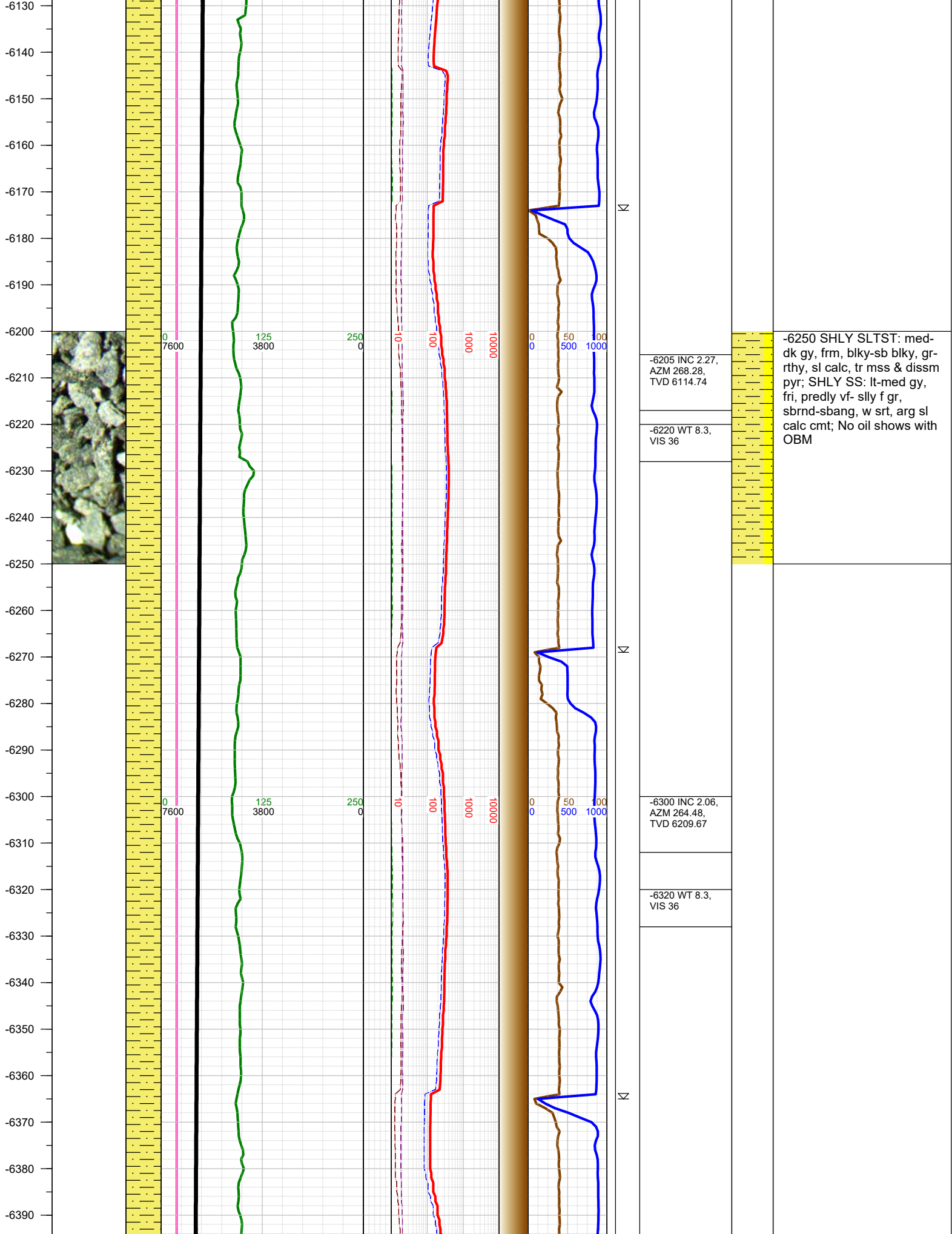
DEPTHS LOGGED: 6000' - 17004'
DATES LOGGED: October 13, 2016 - October 16, 2016
GEOLOGISTS: Ari Berland, Jerad Gerard
SCALE: 5" = 100'

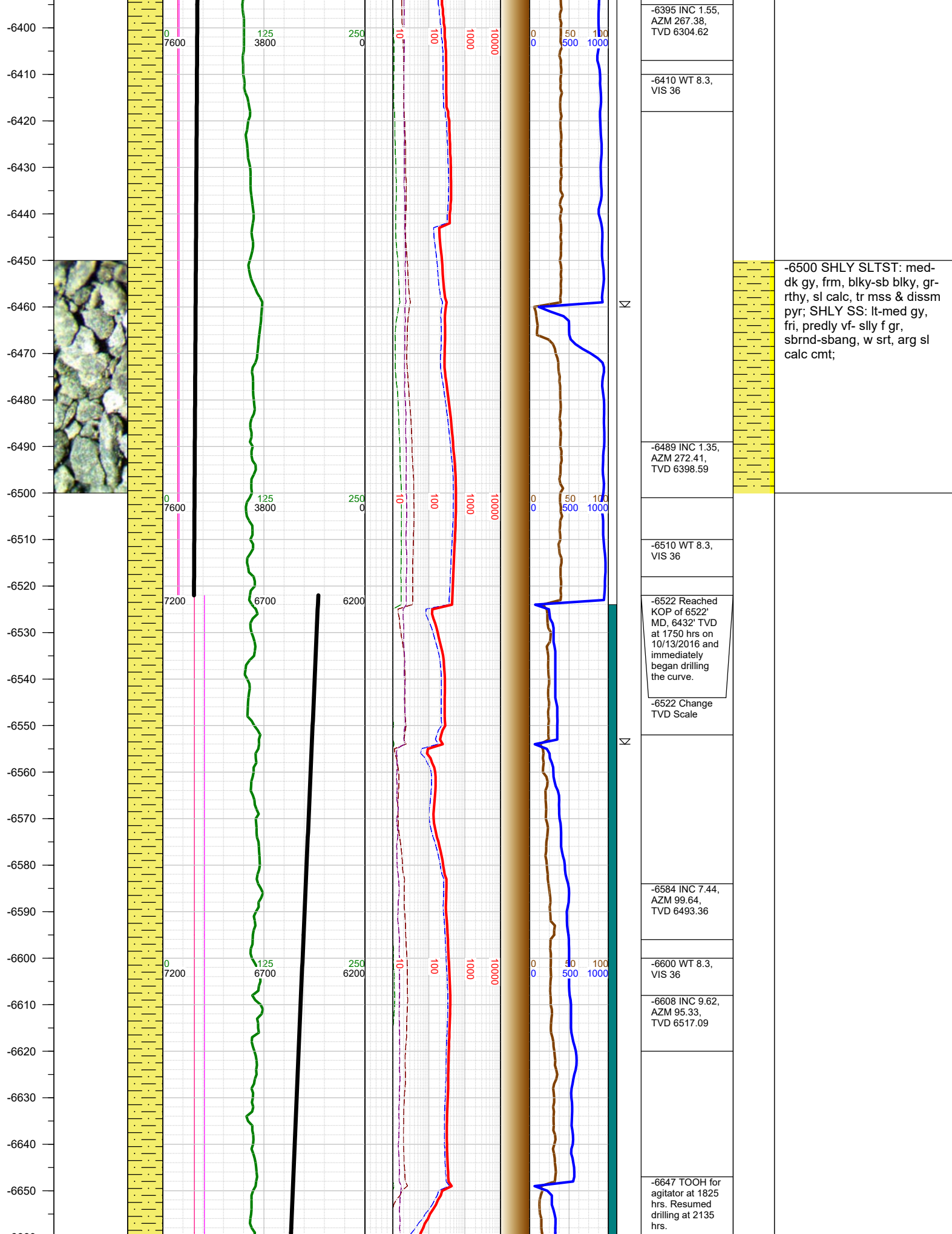
LEGEND

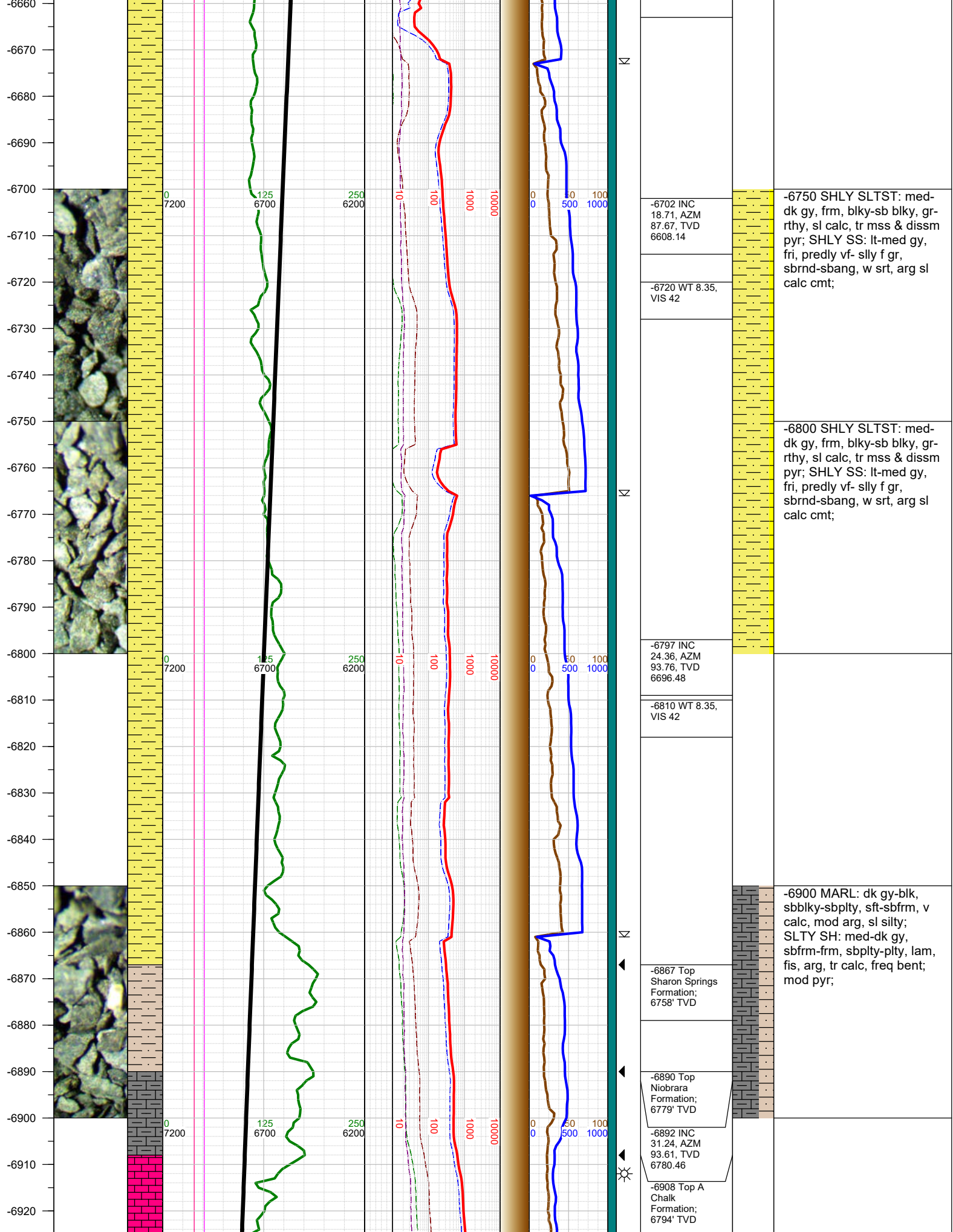


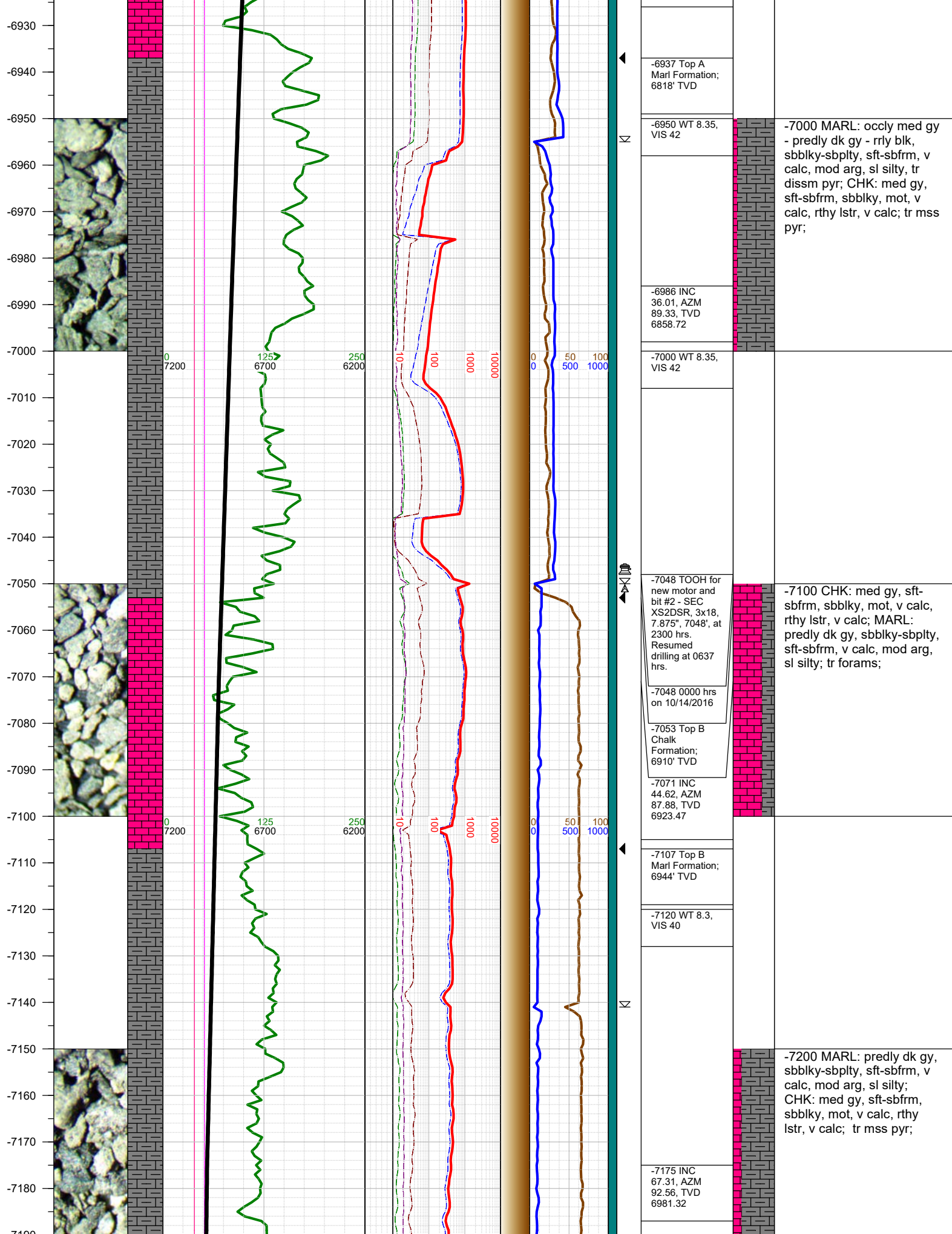
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

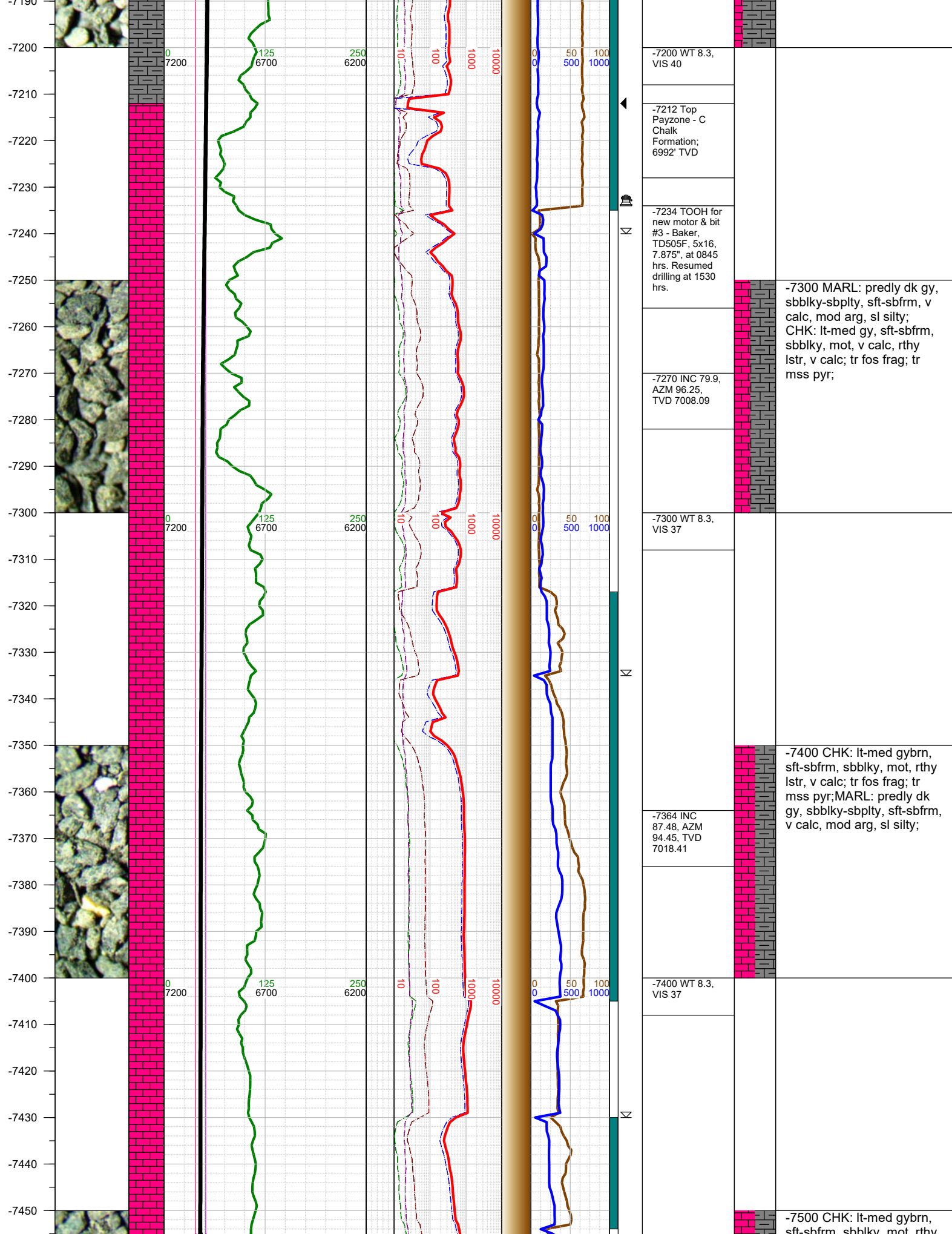


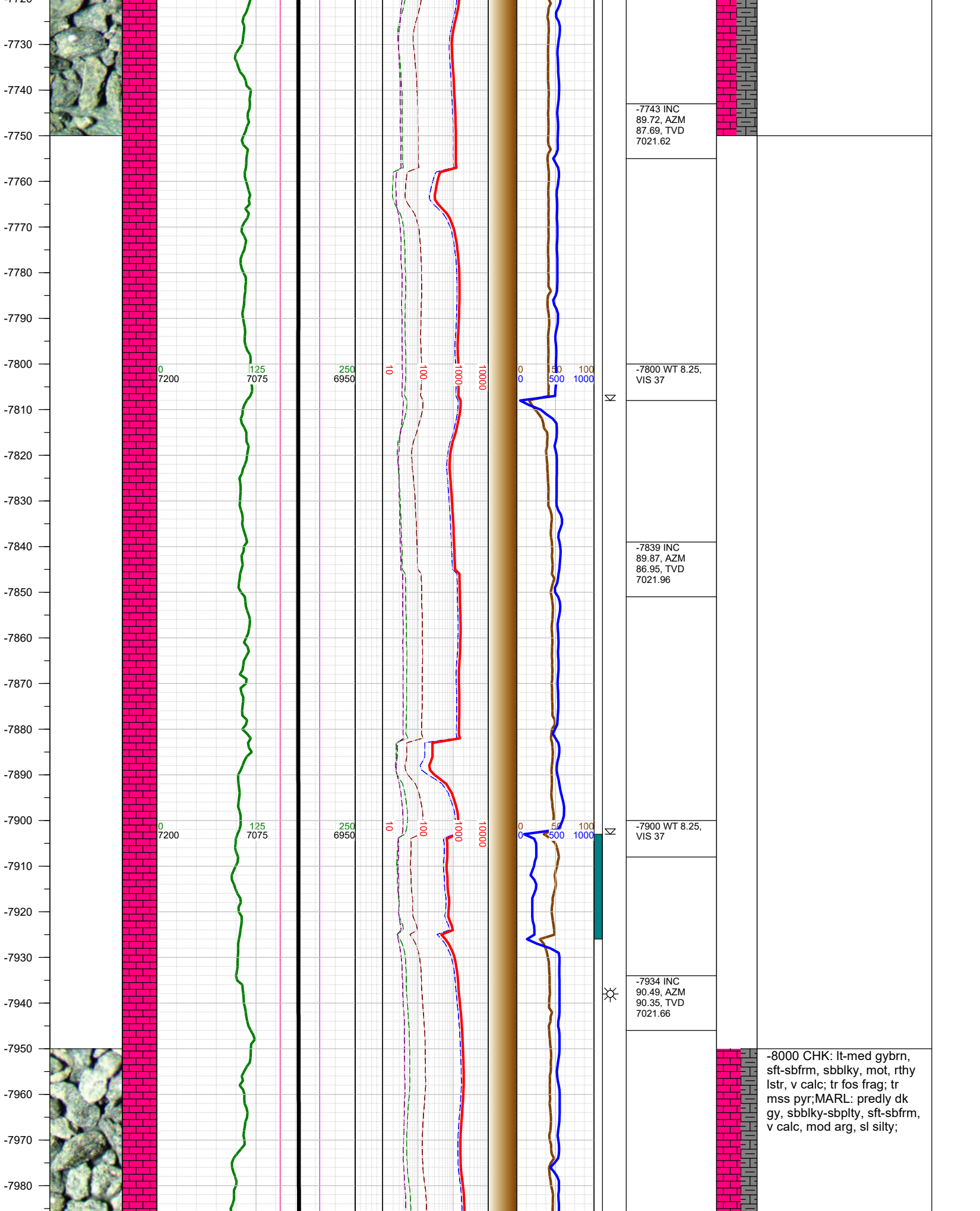


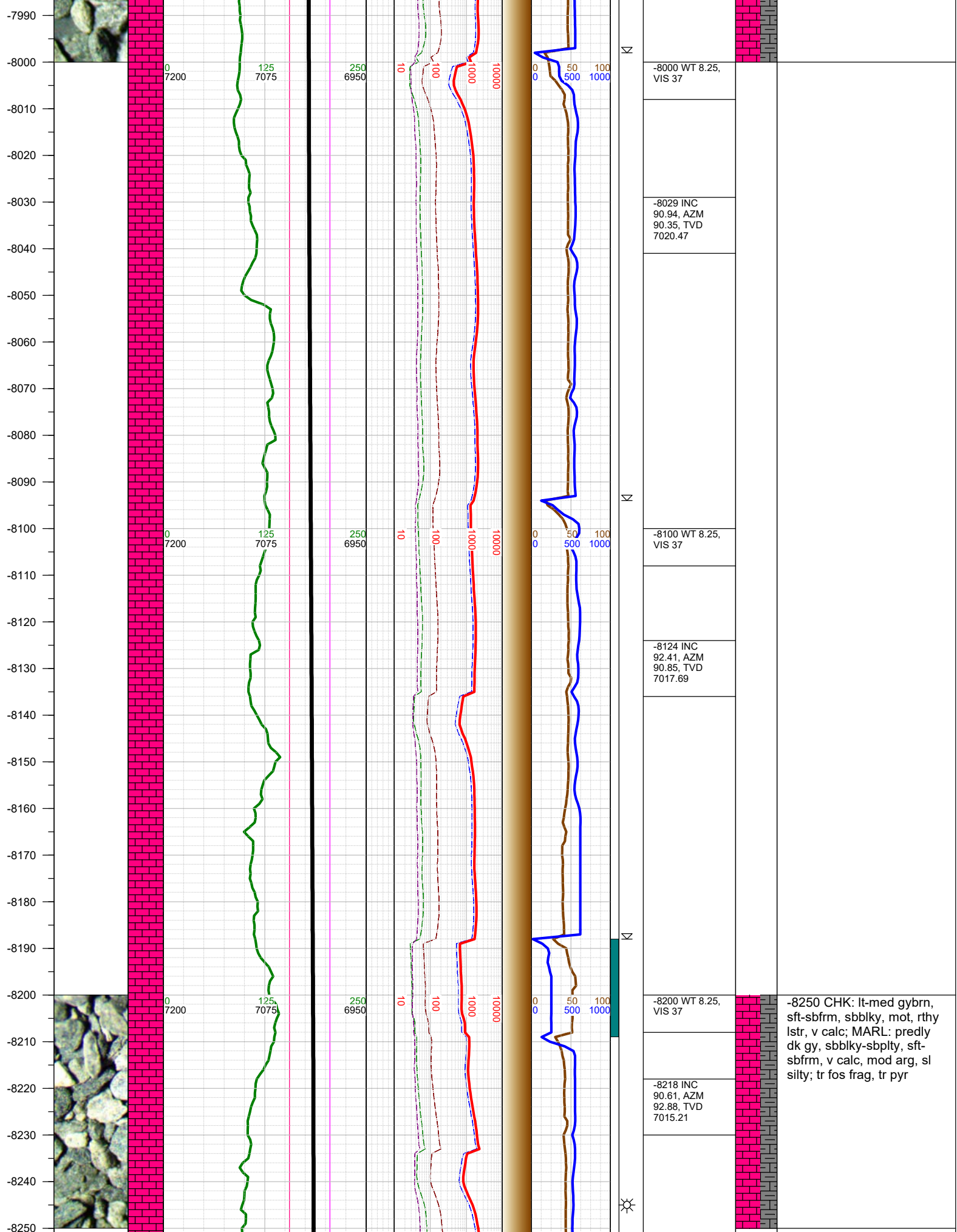


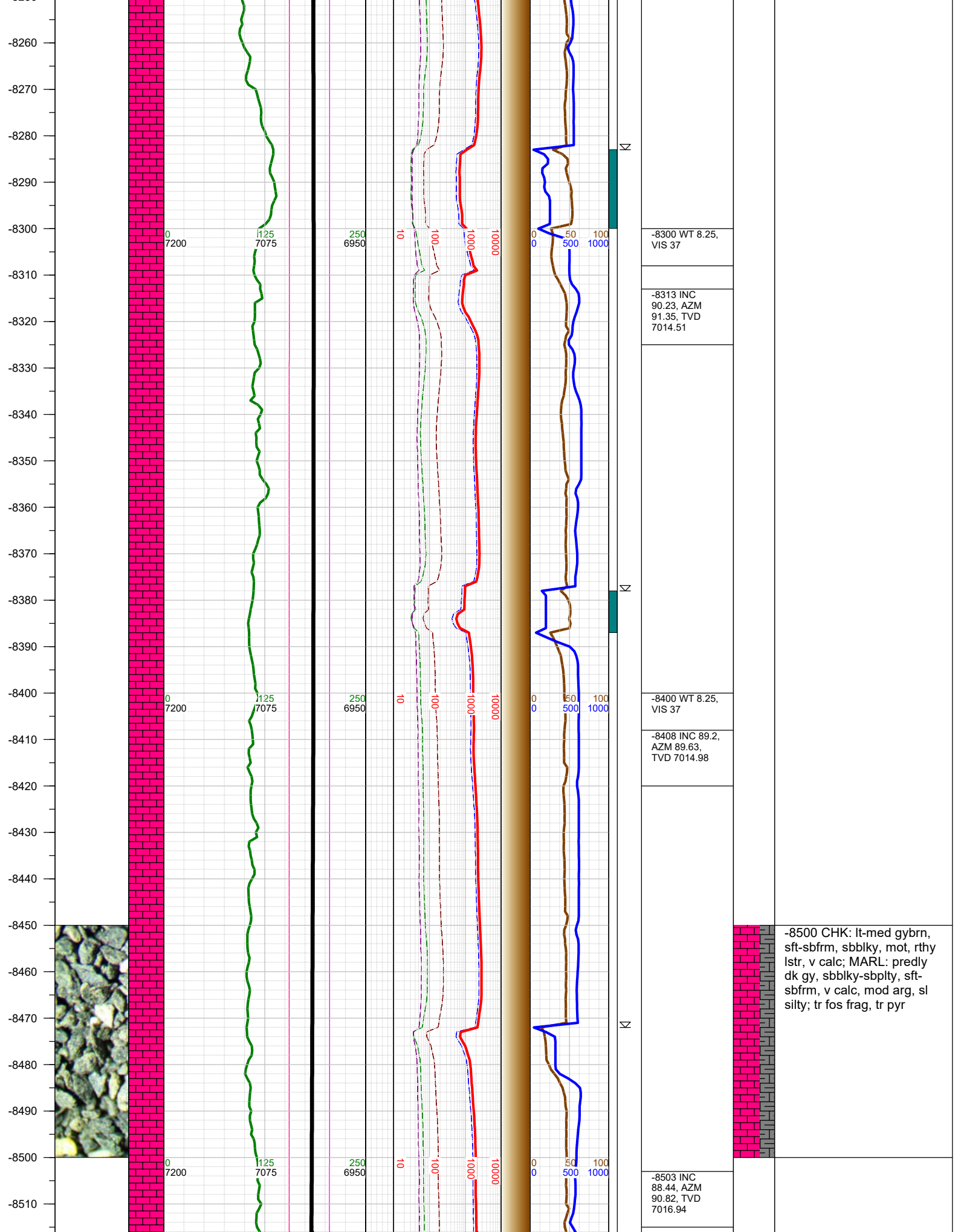


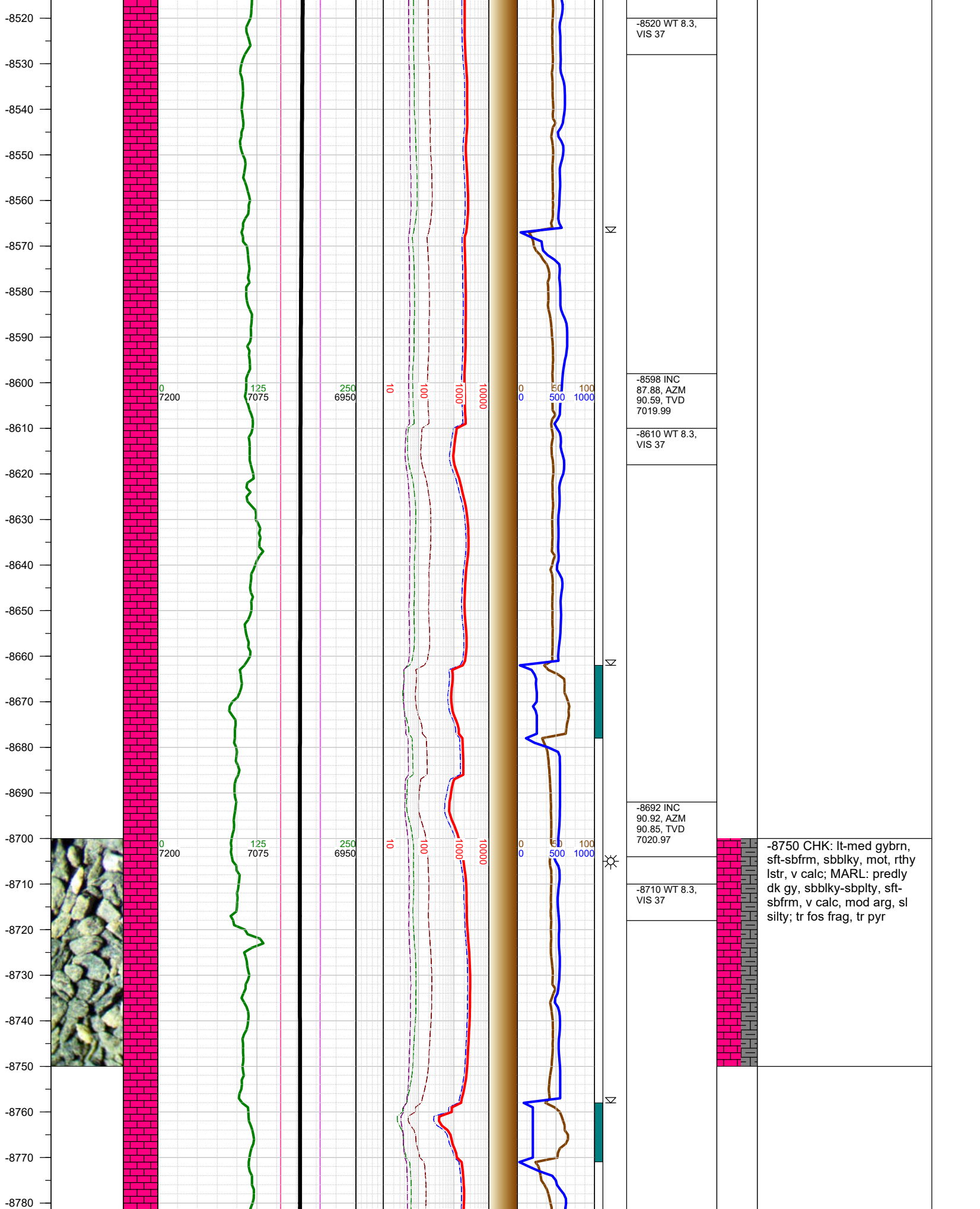


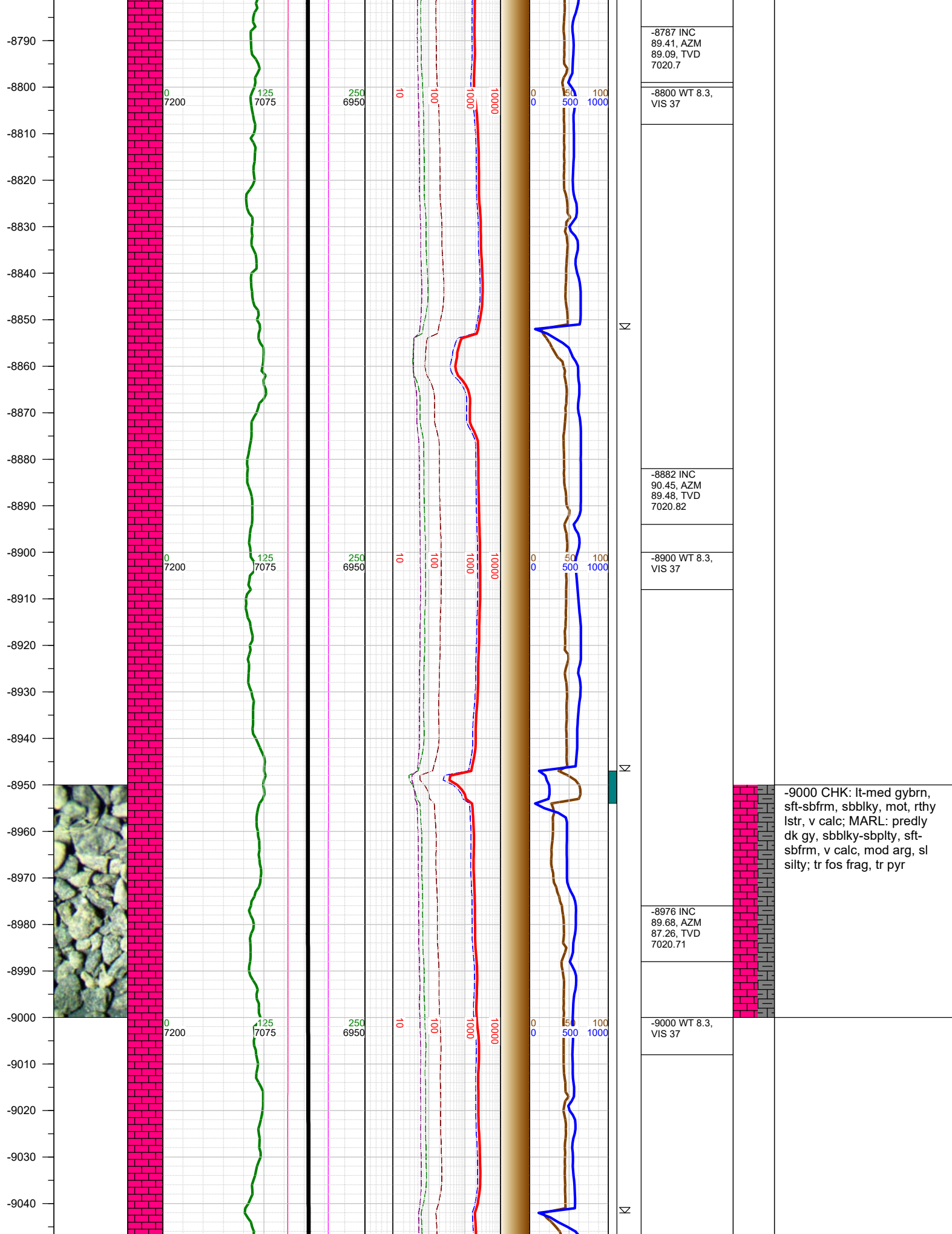




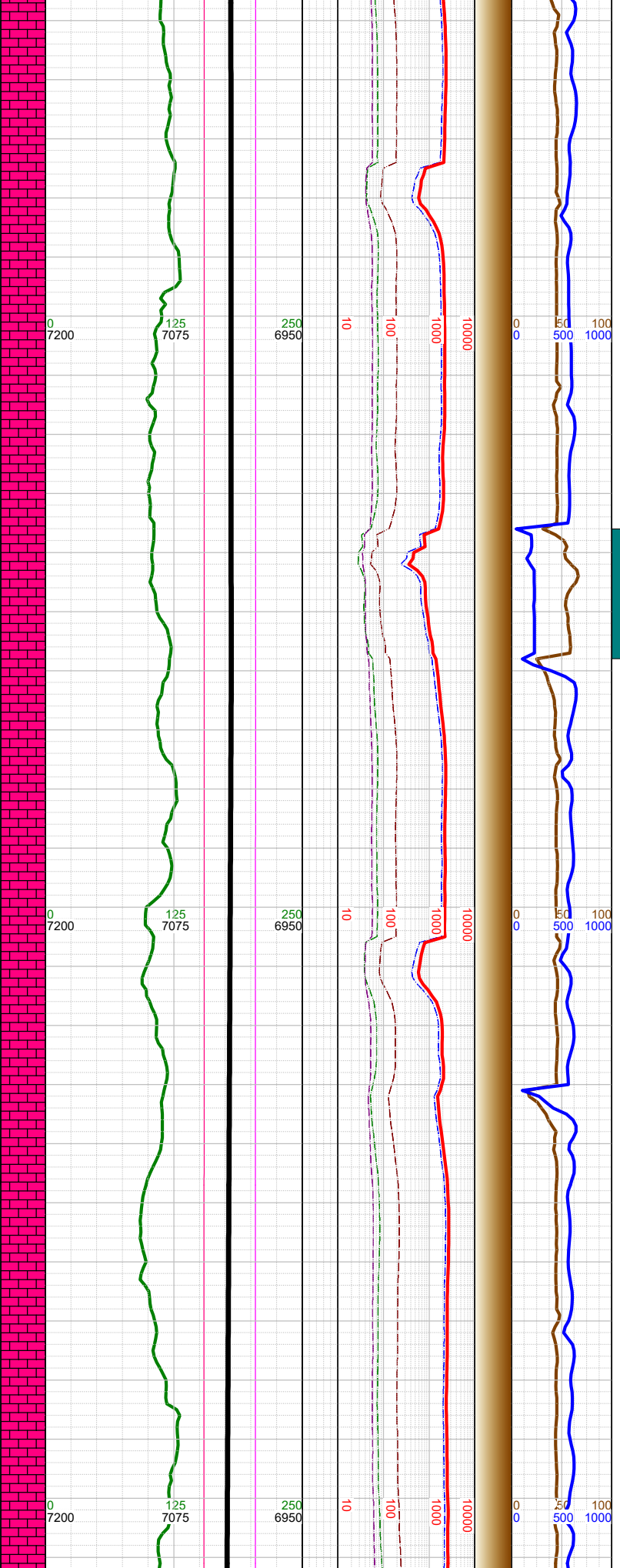




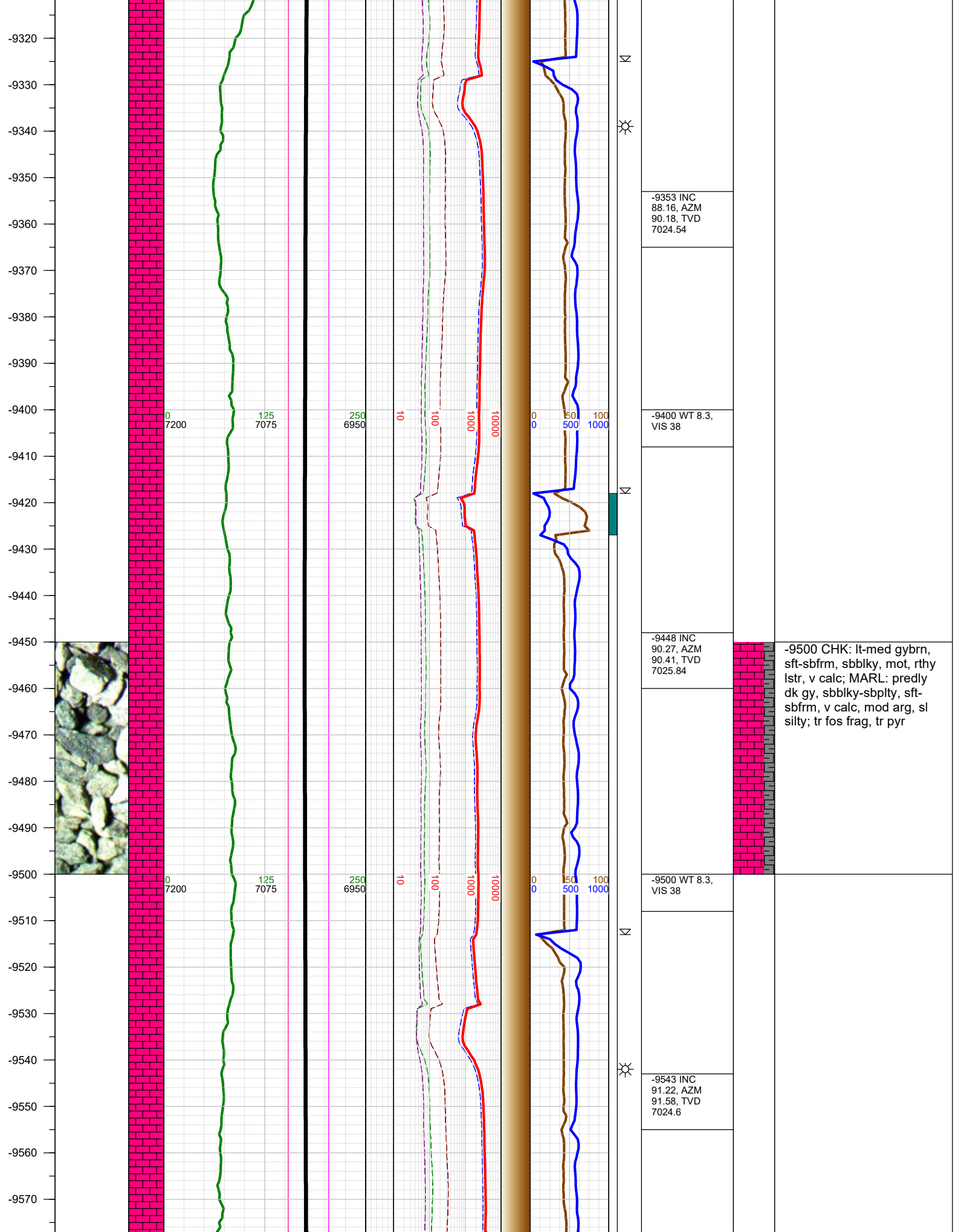




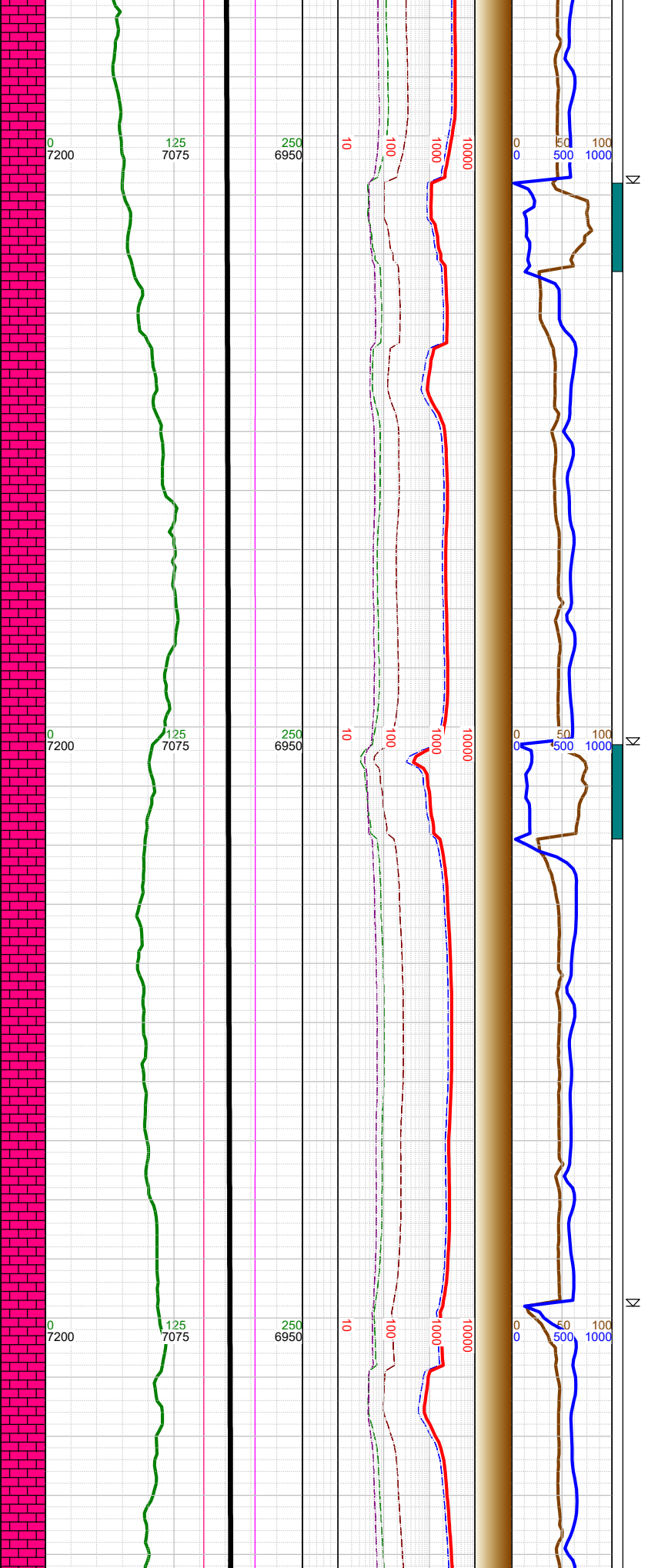
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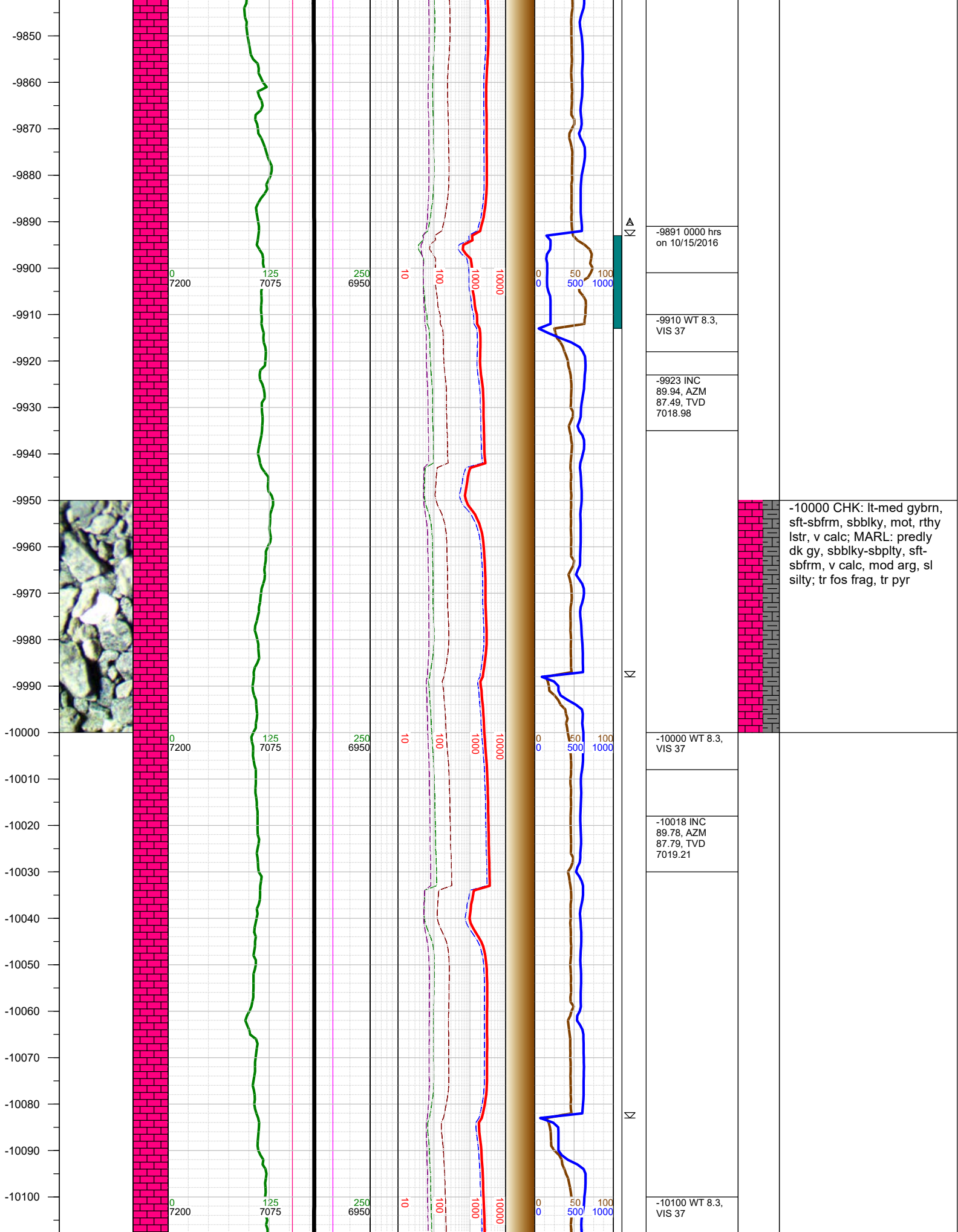
		-9070 INC 91.8, AZM 89.46, TVD 7019.5
		-9102 1' Flare
		-9110 WT 8.3, VIS 37
		-9165 INC 88.34, AZM 89.26, TVD 7019.38
		-9200 WT 8.3, VIS 37
		-9250 CHK: lt-med gybrn, sft-sbfrm, sbblky, mot, rthy lstr, v calc; MARL: predly dk gy, sbblky-sbpity, sft- sbfrm, v calc, mod arg, sl silty; tr fos frag, tr pyr
		-9258 INC 88.61, AZM 88.6, TVD 7021.86
		-9300 WT 8.3, VIS 37



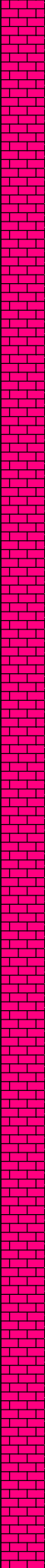
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	-9600 WT 8.3, VIS 38	
	-9638 INC 90.77, AZM 91.31, TVD 7022.95	
	-9700 WT 8.3, VIS 38	
		-9750 CHK: lt-med gybrn, sft-sbfrm, sbblky, mot, rthy lstr, v calc; MARL: predly dk gy, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr fos frag, tr pyr
	-9733 INC 90.53, AZM 89.45, TVD 7021.87	
	-9800 WT 8.3, VIS 38	
	-9828 INC 91.51, AZM 89.49, TVD 7020.18	



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-10113 INC
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87.43, TVD
7019.43

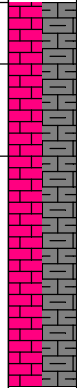
-10200 WT 8.3,
VIS 37

-10208 INC
88.66, AZM
87.29, TVD
7020.58

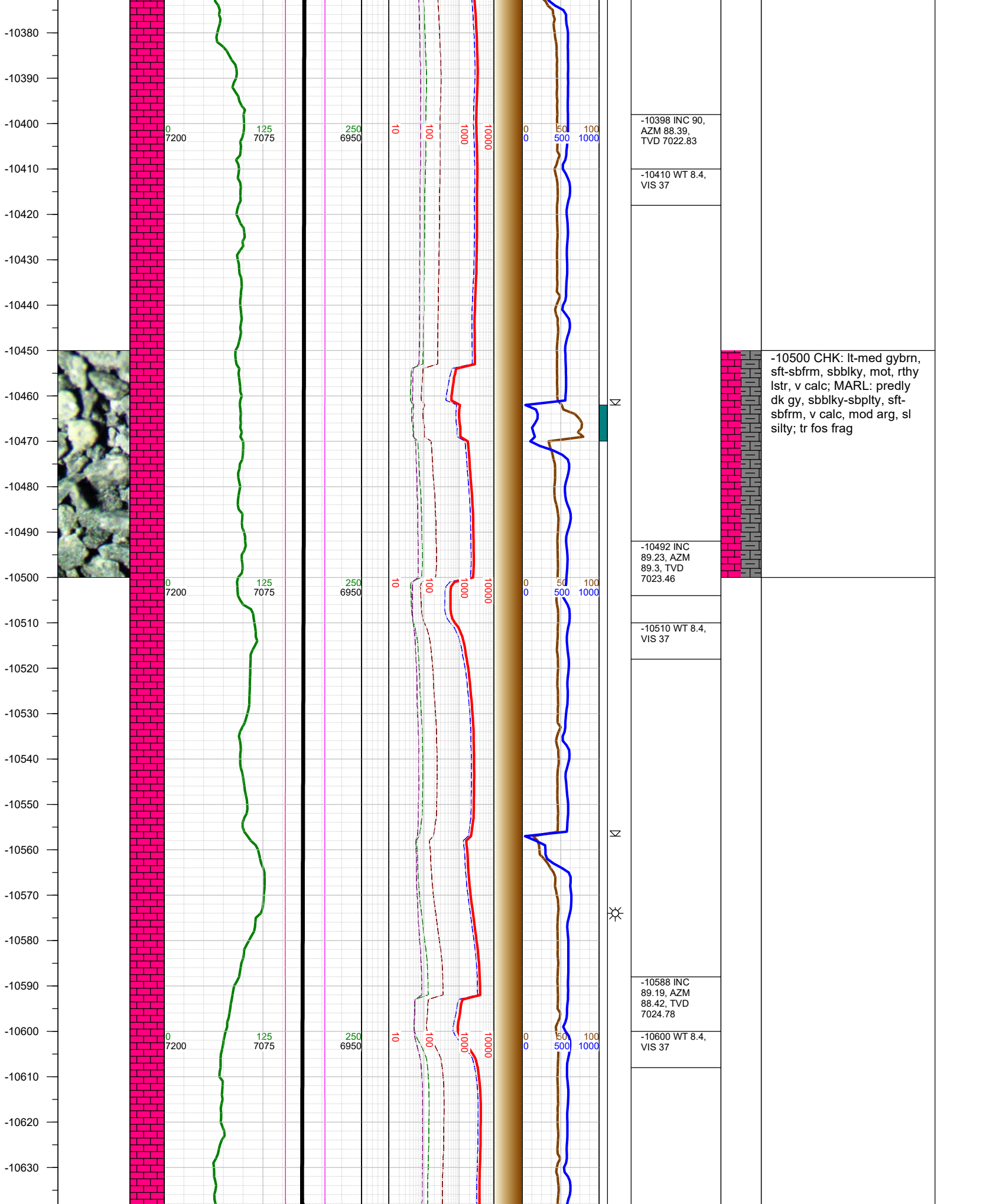
-10260 1" Flare

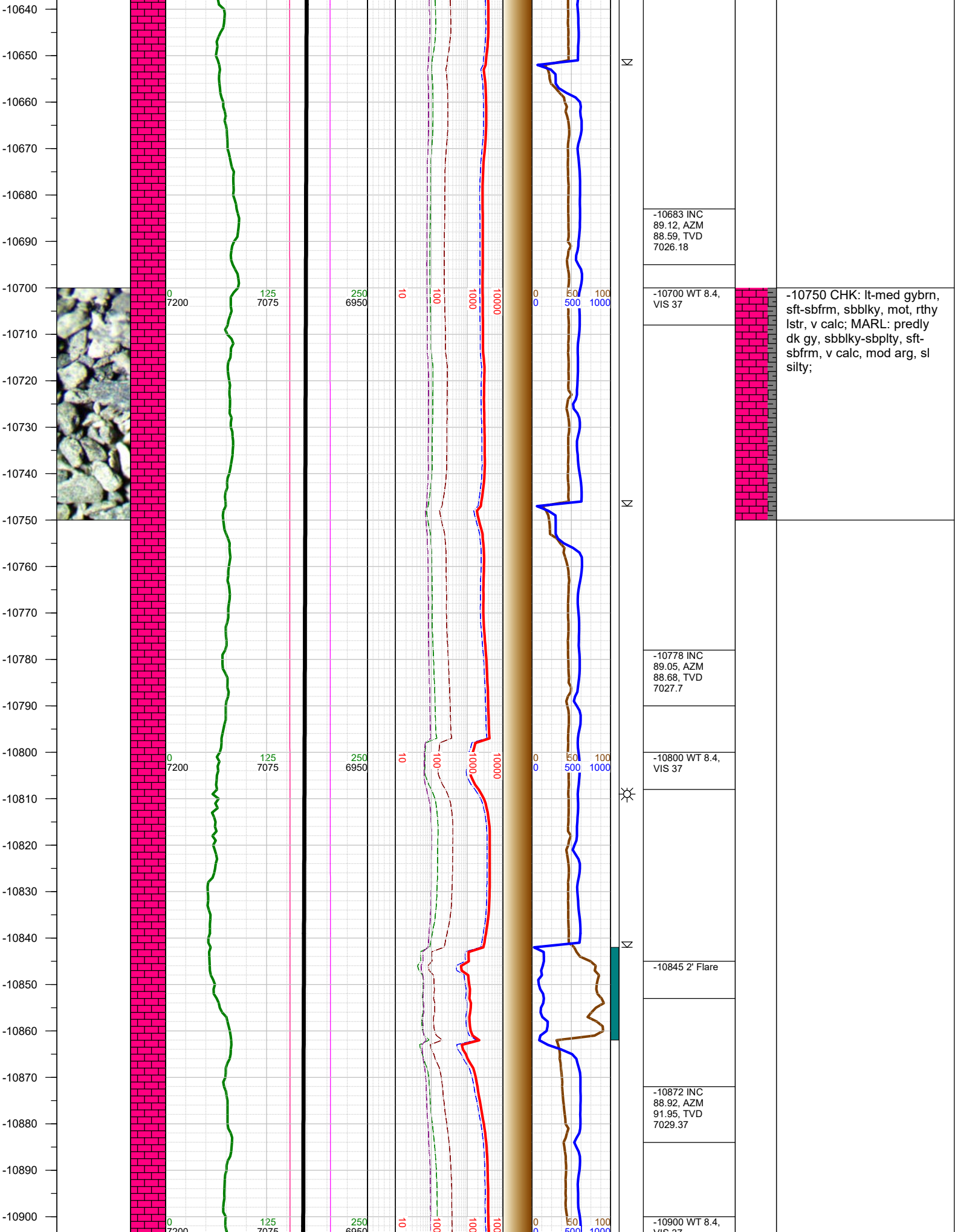
-10303 INC
89.31, AZM
87.92, TVD
7022.26

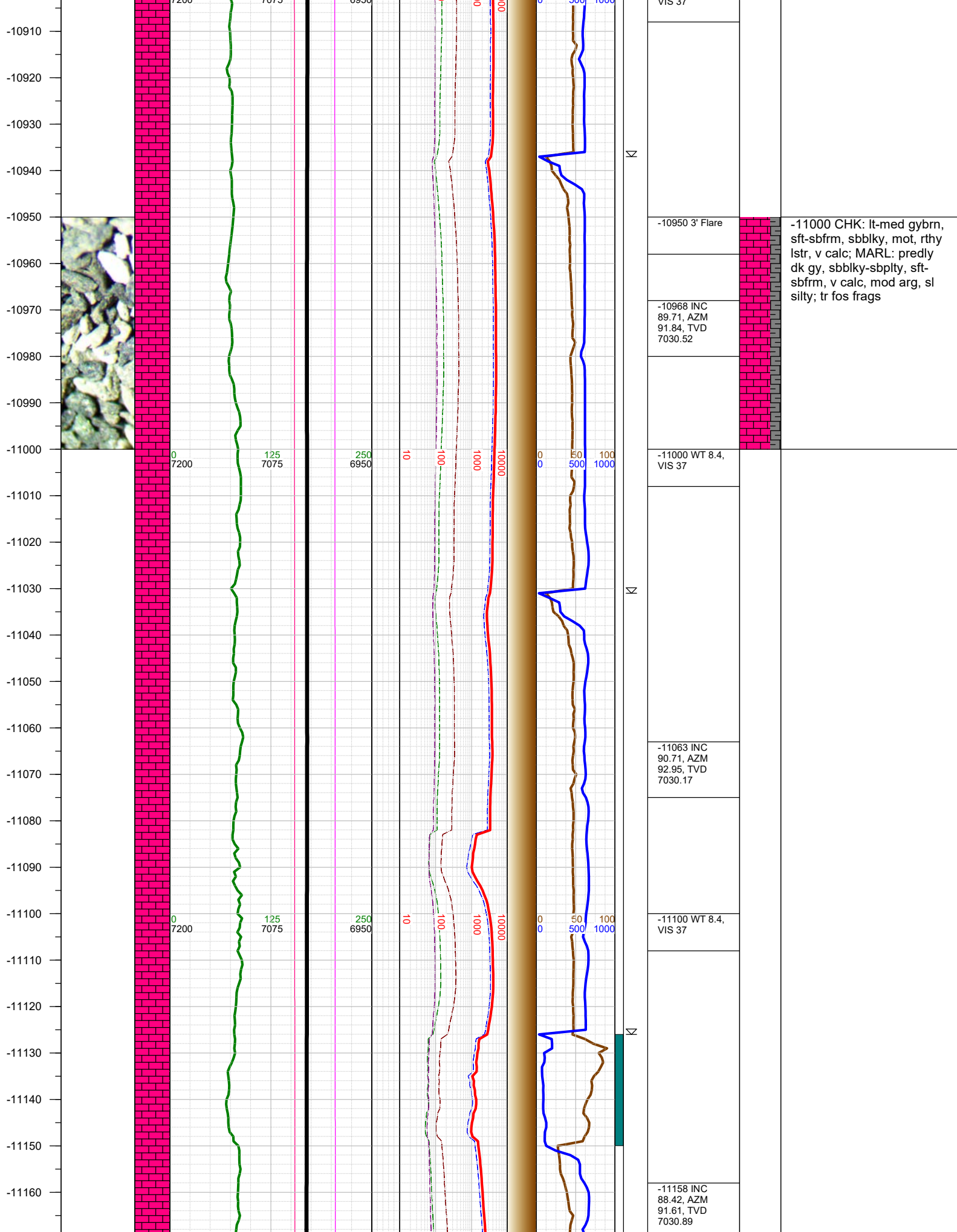
-10320 WT 8.4,
VIS 37

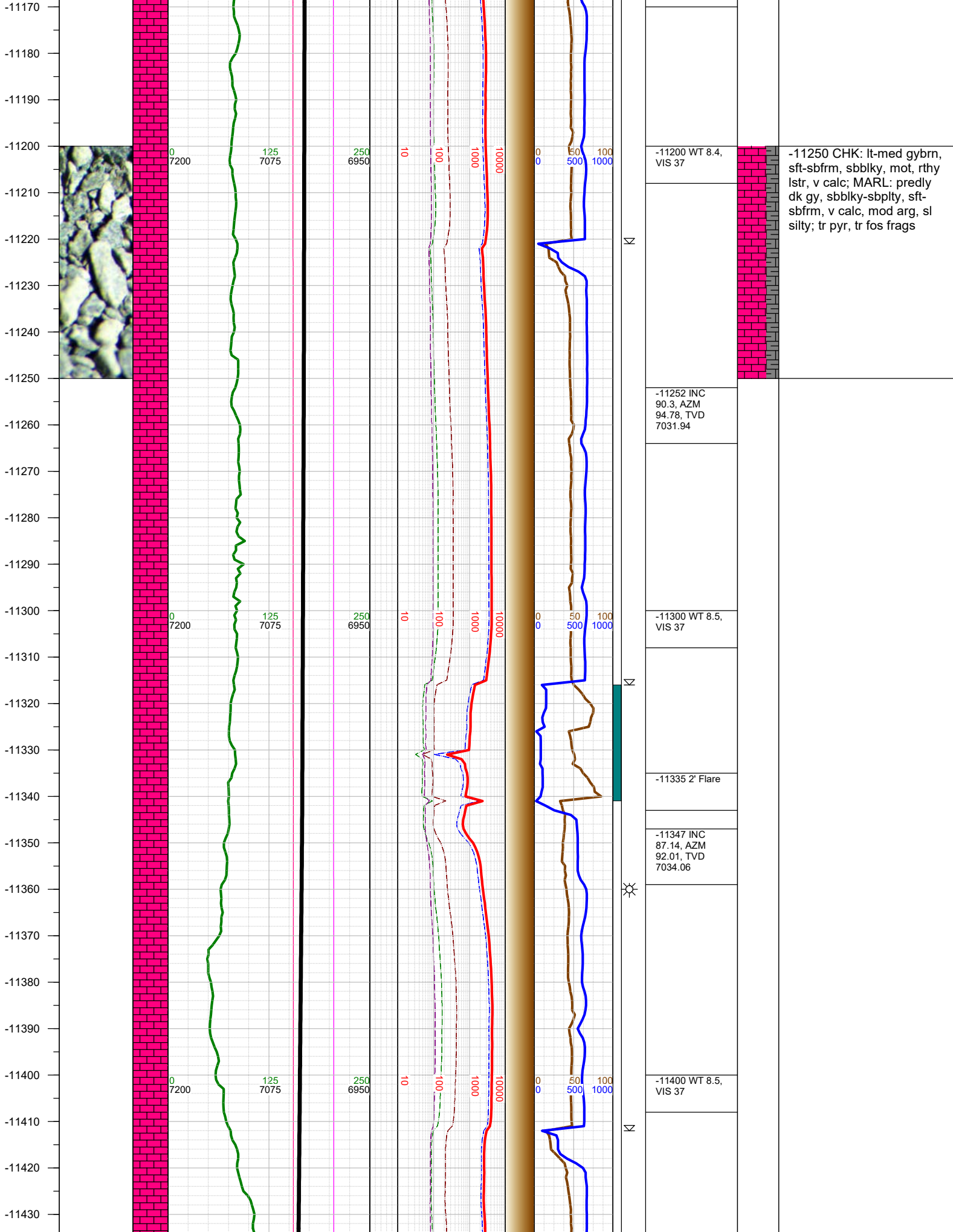


-10250 MARL: predly dk
gy, sbbly-sbply, sft-sbfrm,
v calc, mod arg, sl silty;
CHK: lt-med gybrn, sft-
sbfrm, sbbly, mot, rthy
lstr, v calc; tr fos frag

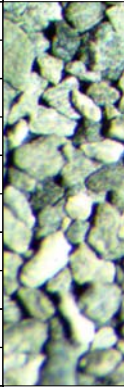








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-11442 INC
87.1, AZM
92.09, TVD
7038.83

-11500 WT 8.5,
VIS 37

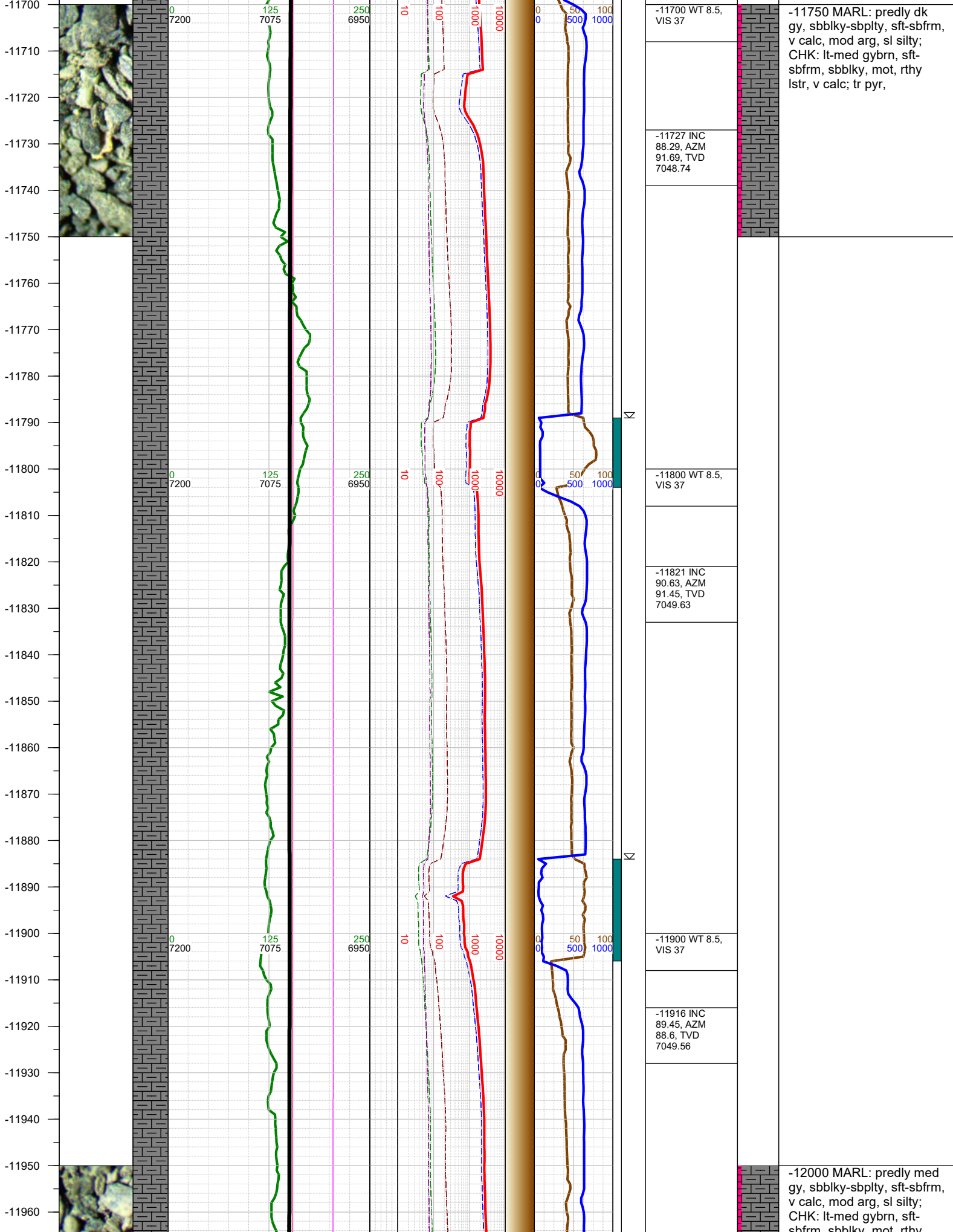
-11537 INC
87.3, AZM
91.37, TVD
7043.54

-11600 WT 8.5,
VIS 37

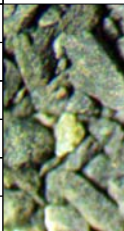
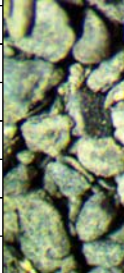
-11632 INC
89.07, AZM
90.79, TVD
7046.55



-11500 CHK: lt-med gybrn,
sft-sbfrm, sbblky, mot, rthy
lstr, v calc; MARL: predly
dk gy, sbblky-sbplty, sft-
sbfrm, v calc, mod arg, sl
silty; tr pyr, tr fos frags



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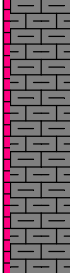
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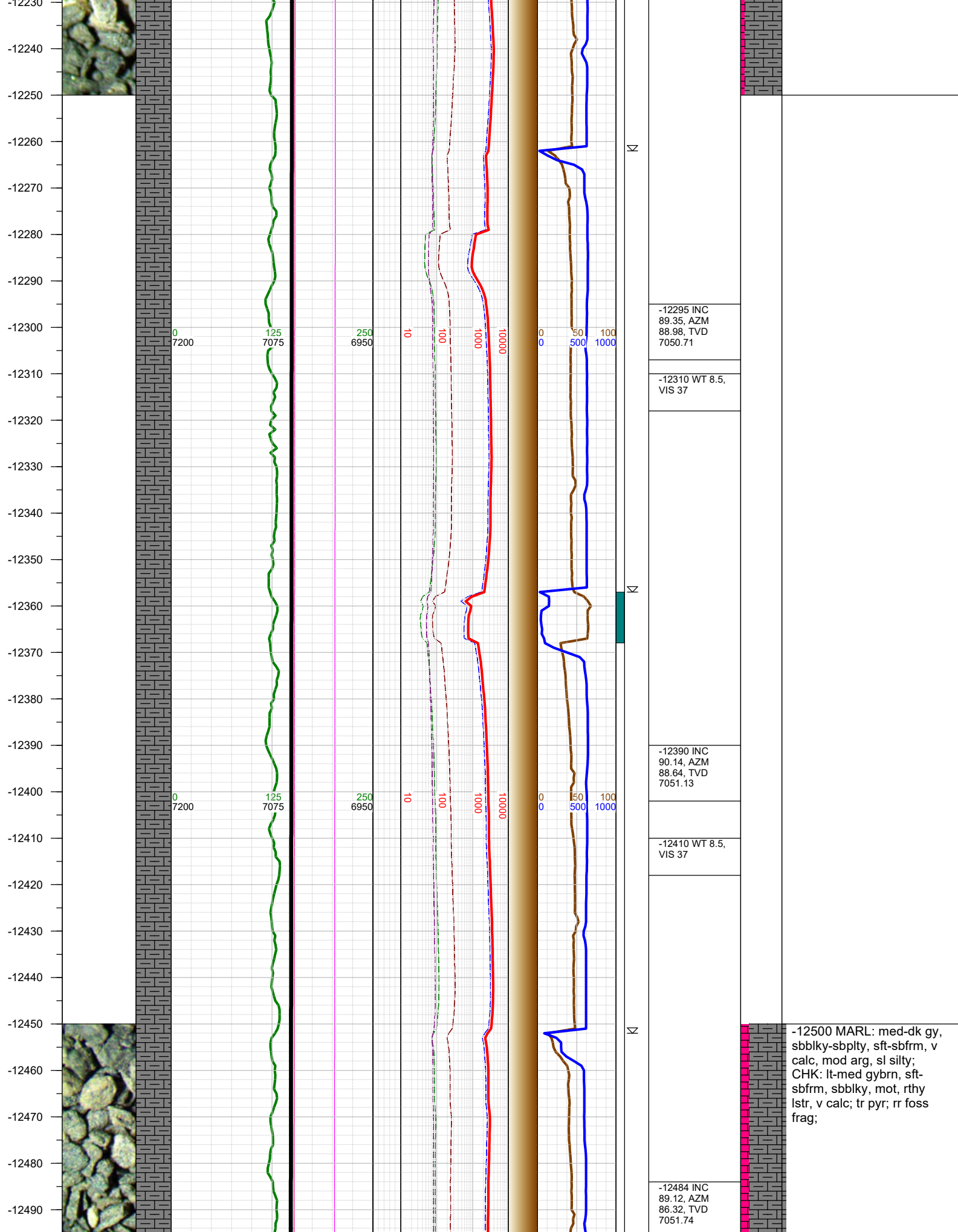
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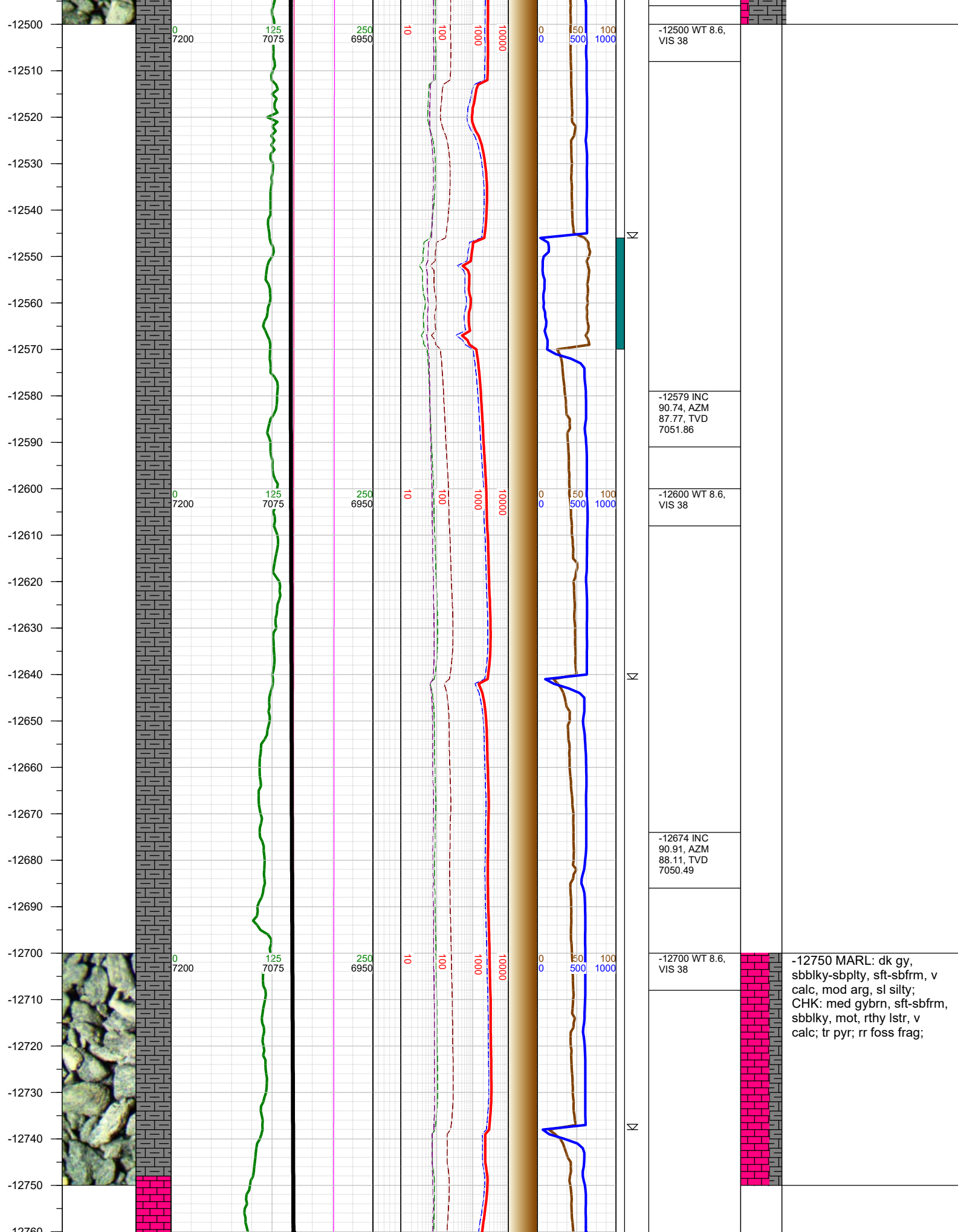
-12000 WT 8.5, VIS 37
-12011 INC 89.86, AZM 88.74, TVD 7050.13
-12106 INC 90.09, AZM 91.48, TVD 7050.17
-12120 WT 8.5, VIS 37
-12201 INC 89.95, AZM 91.22, TVD 7050.14
-12220 WT 8.5, VIS 37

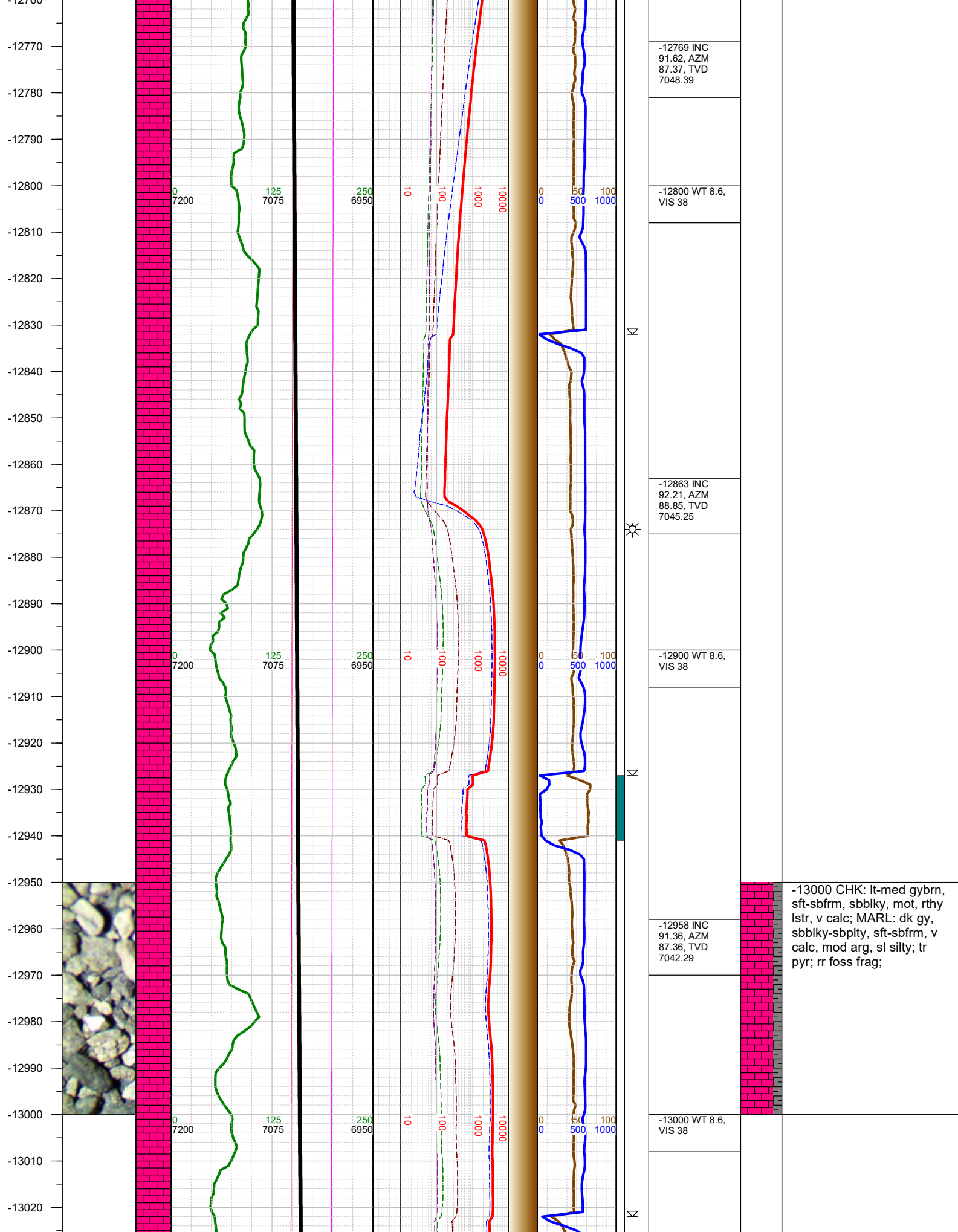


sbbm, sbbky, mot, rthy
lstr, v calc; tr pyr,

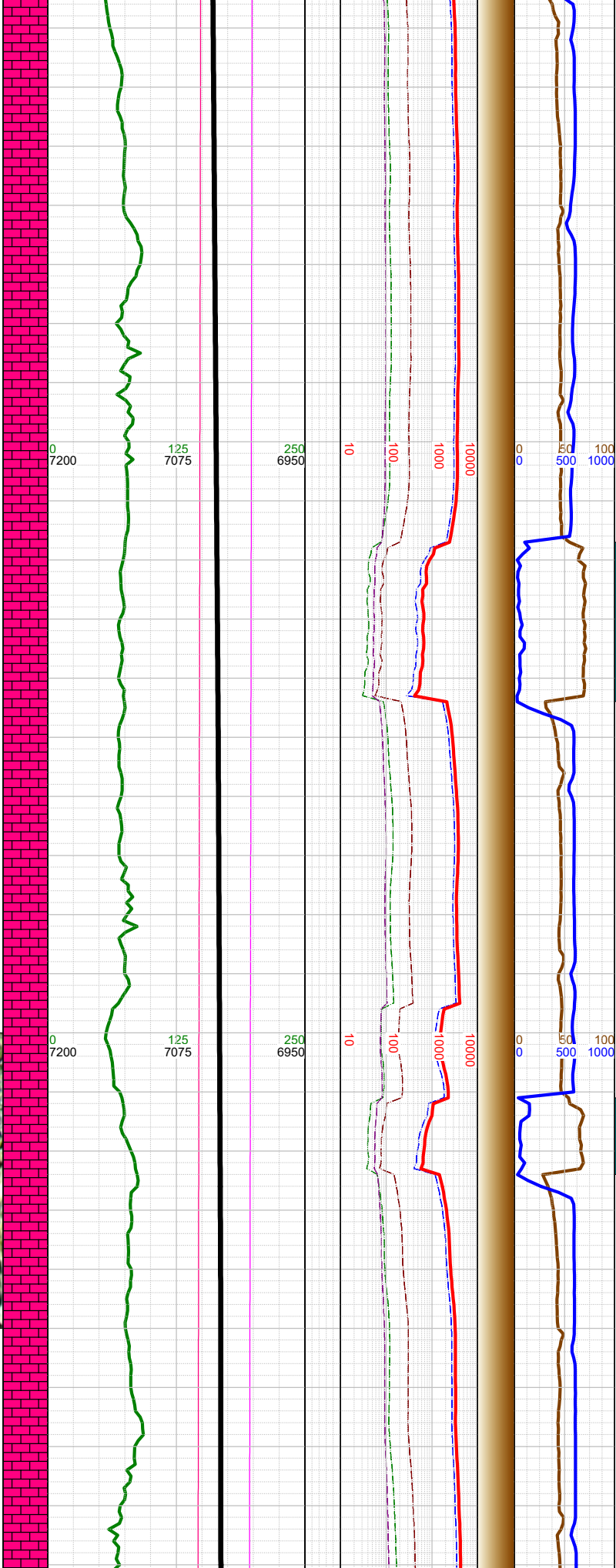
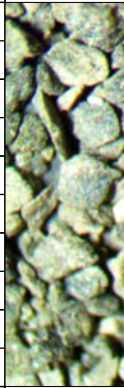
-12250 MARL: med-dk gy,
sbbky-sbplty, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gybrn, sft-
sbfrm, sbbky, mot, rthy
lstr, v calc; tr pyr,







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-13053 INC
93.35, AZM
88.22, TVD
7038.39

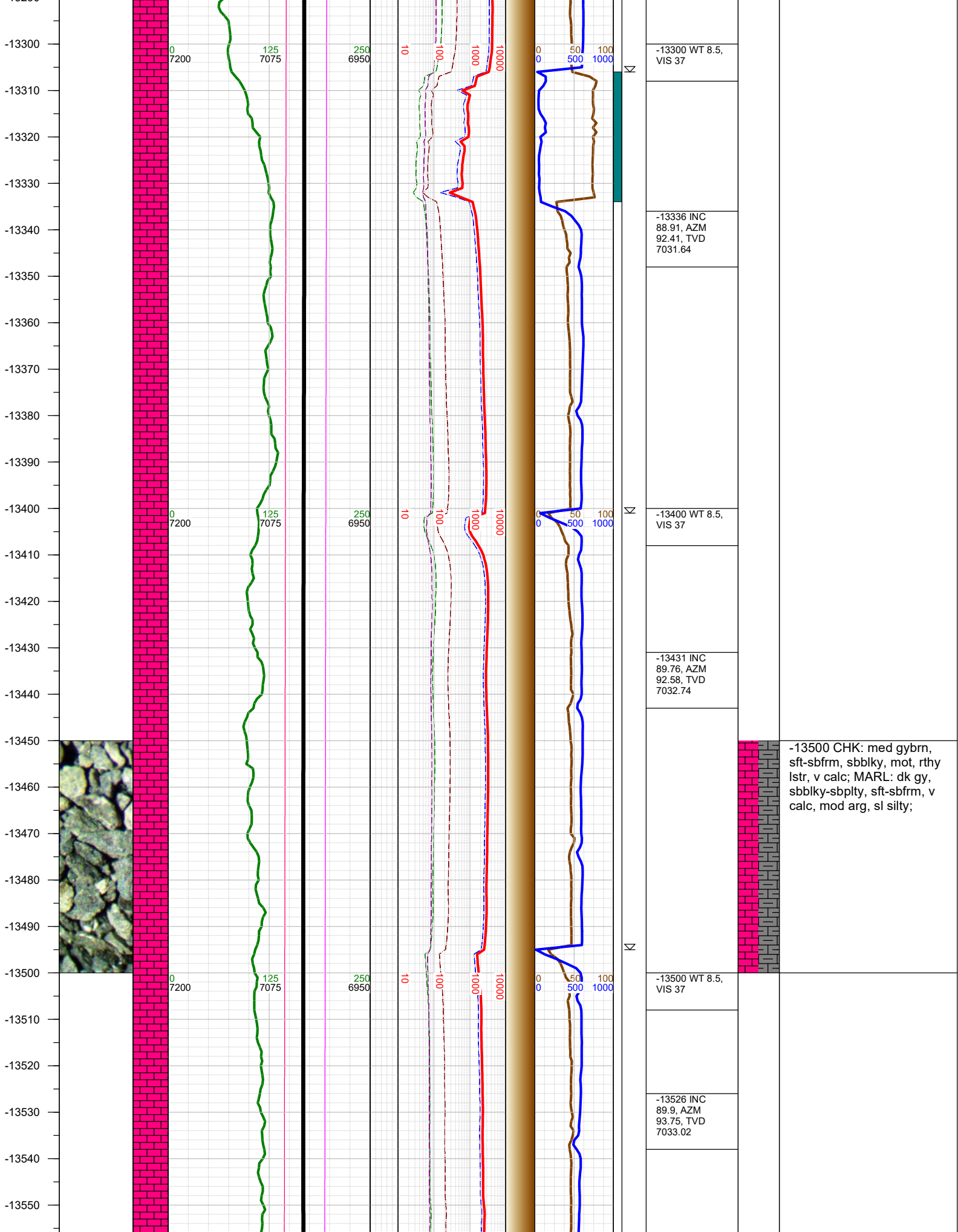
-13100 WT 8.6,
VIS 38

-13148 INC
91.34, AZM
88.92, TVD
7034.5

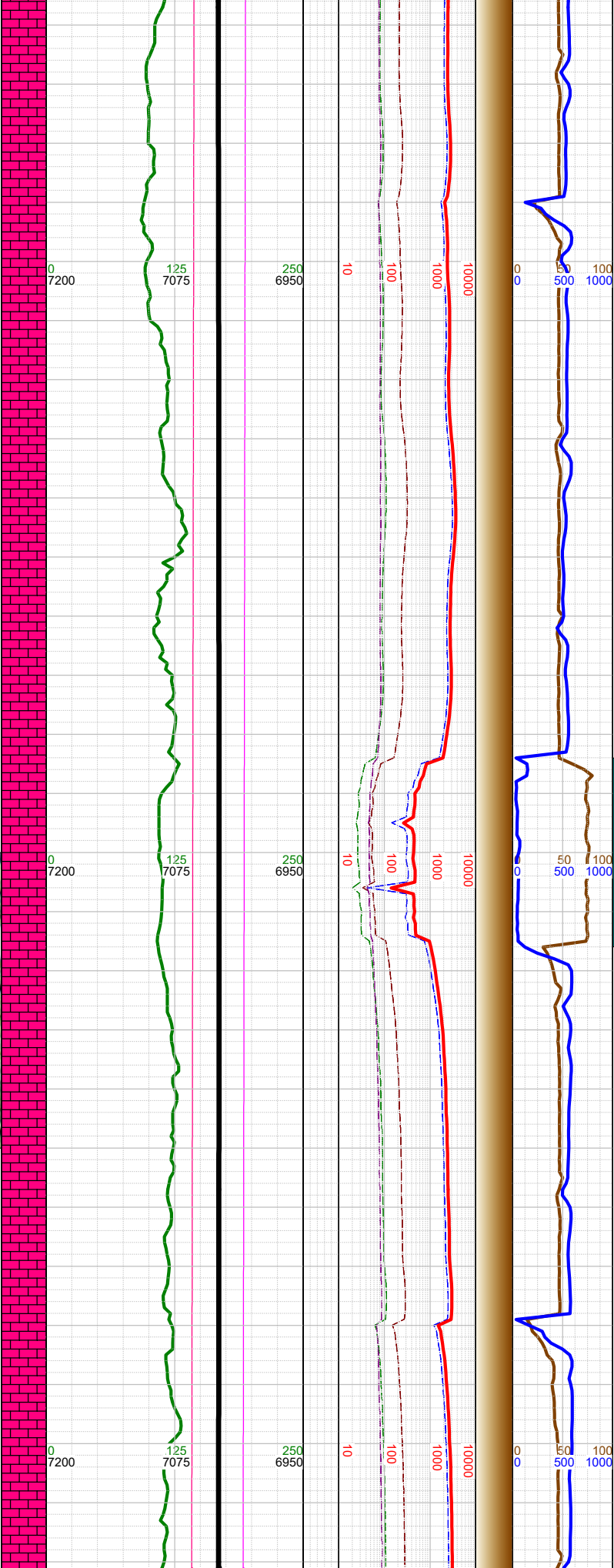
-13200 WT 8.6,
VIS 38

-13242 INC
91.62, AZM
92.31, TVD
7032.07

-13250 CHK: lt-med gybrn,
sft-sbfrm, sbblky, mot, rthy
lstr, v calc; MARL: dk gy,
sbblky-sbplty, sft-sbfrm, v
calc, mod arg, sl silty; rr-
occ mss pyr;



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-13600 WT 8.5,
VIS 37

-13621 INC
91.03, AZM
94.35, TVD
7032.25

-13700 WT 8.5,
VIS 37

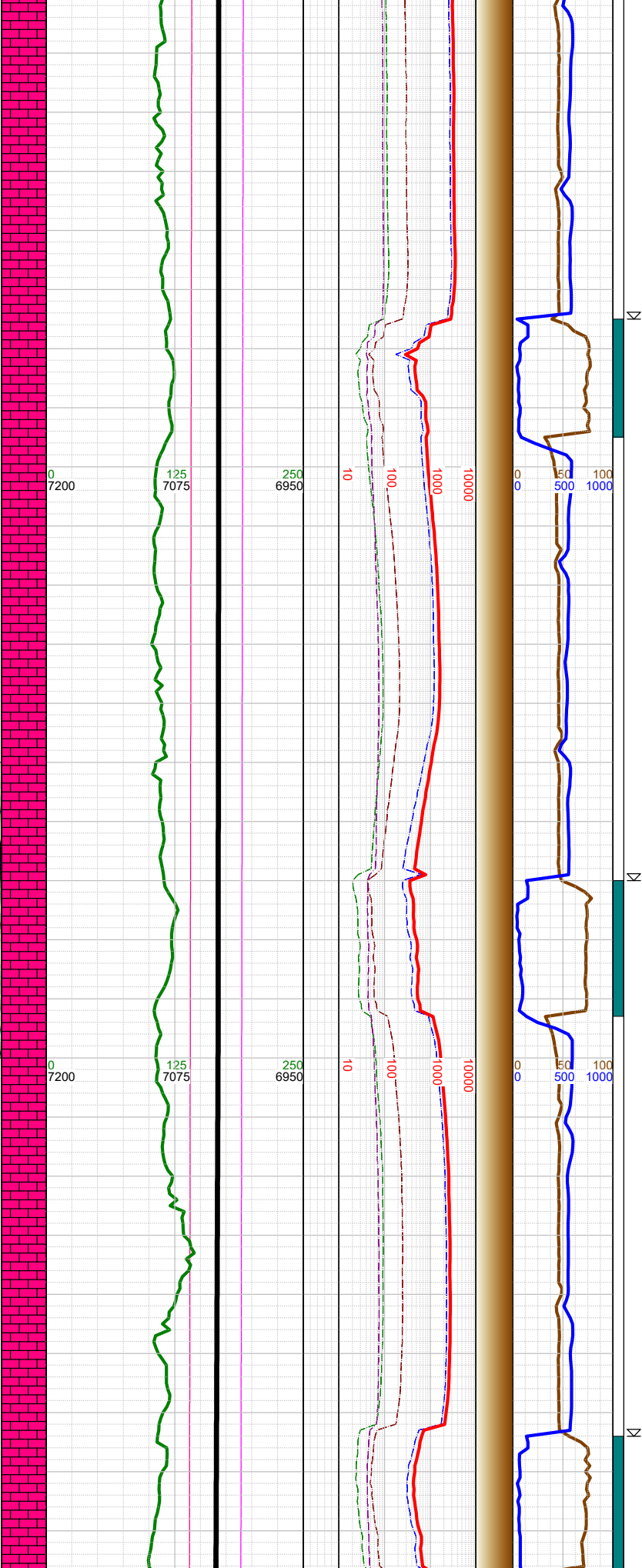
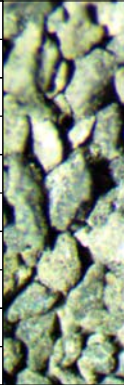
-13716 INC
89.38, AZM
91.16, TVD
7031.91

-13800 WT 8.5,
VIS 37

-13811 INC 90,
AZM 91.85,
TVD 7032.42

-13750 MARL: dk gy,
sbbkly-sbplty, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: med gybrn, sft-sbfrm,
sbbkly, mot, rthy lstr, v
calc; tr foss frag; tr mss
pyr;

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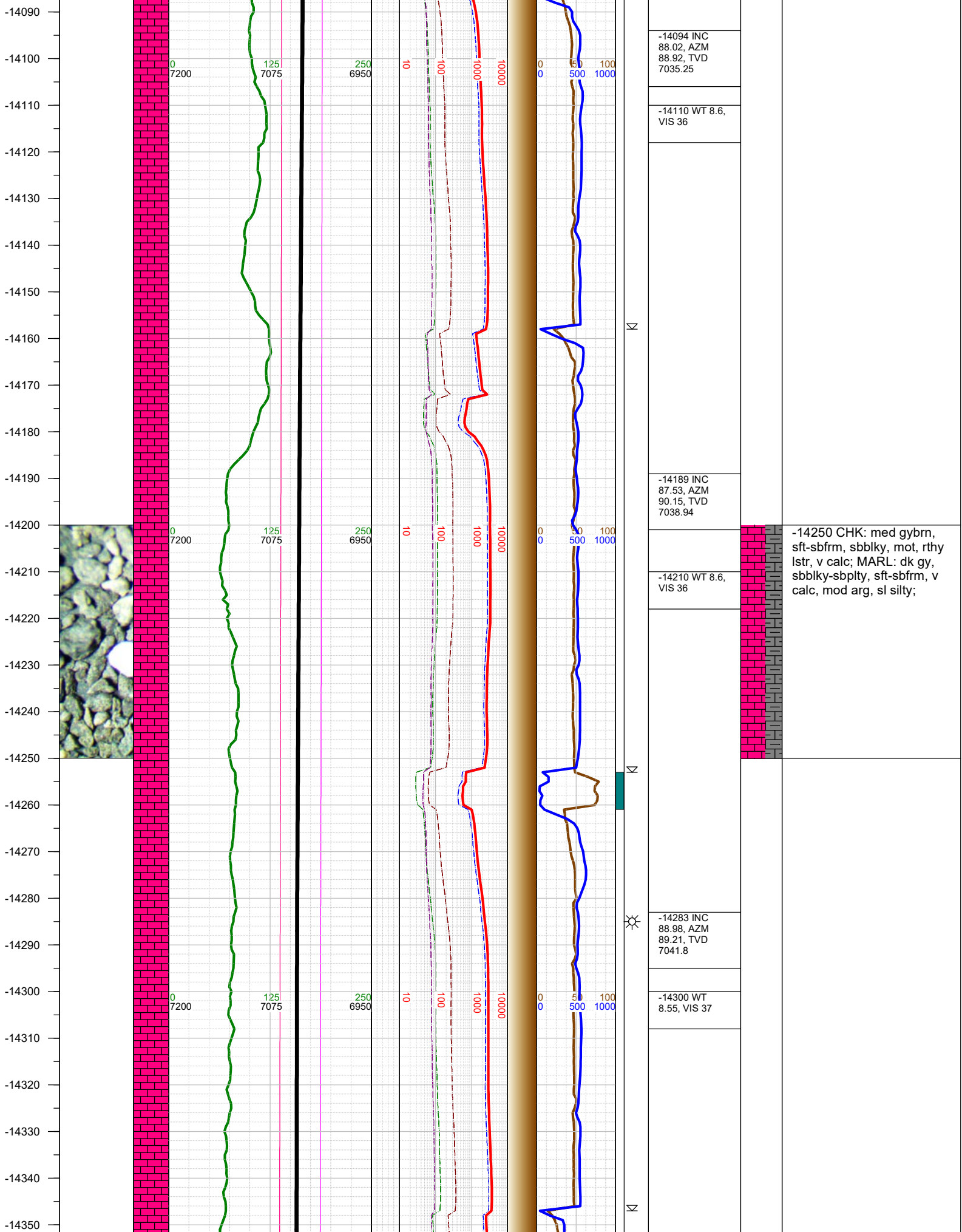
-13905 INC
89.96, AZM
91.09, TVD
7032.45

-13920 WT 8.6,
VIS 37

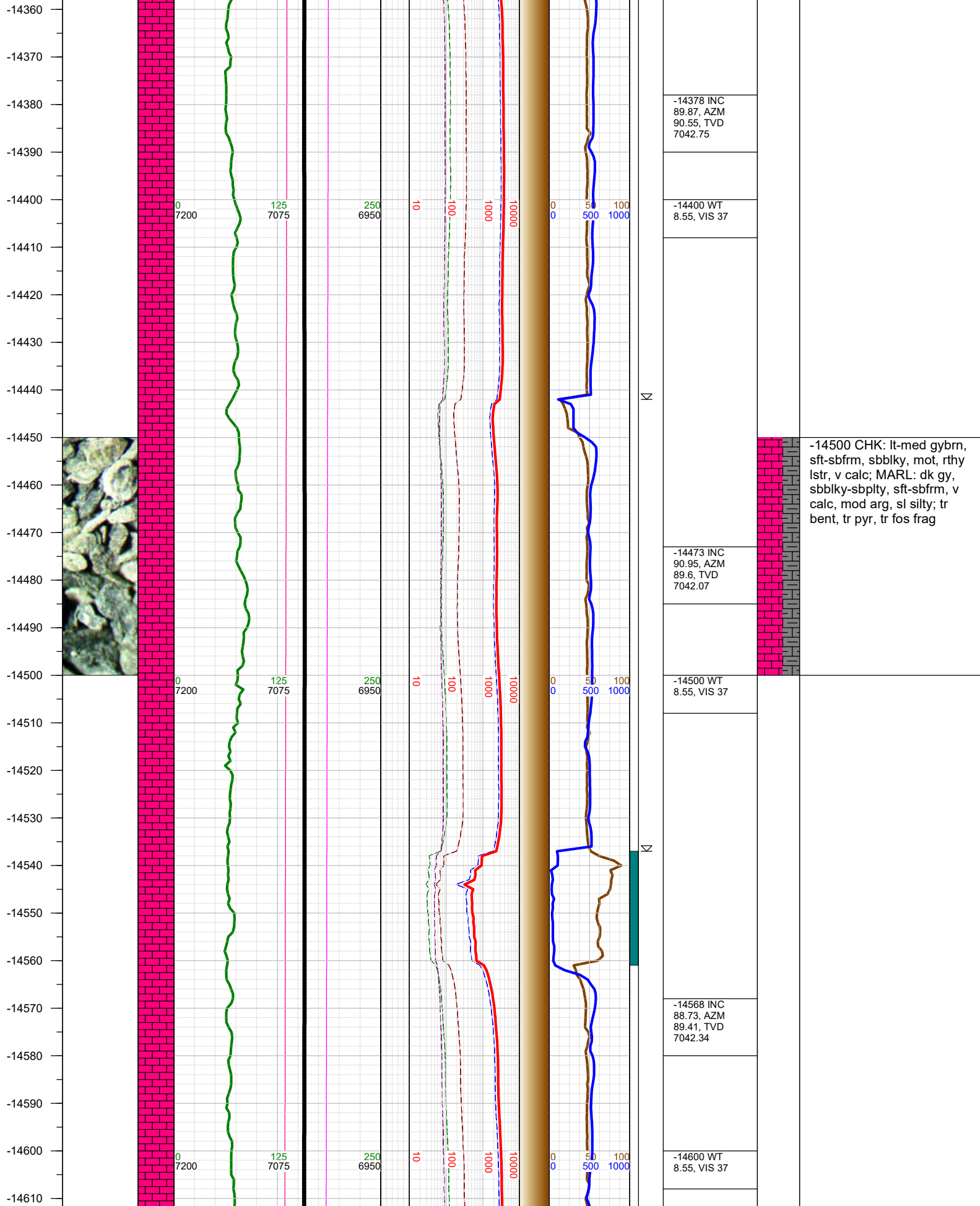
-14000 CHK: med gybrn,
sft-sbfrm, sbblky, mot, rthy
lstr, v calc; MARL: dk gy,
sbblky-sbplty, sft-sbfrm, v
calc, mod arg, sl silty;

-14000 INC
89.31, AZM
91.92, TVD
7033.06

-14020 WT 8.6,
VIS 37

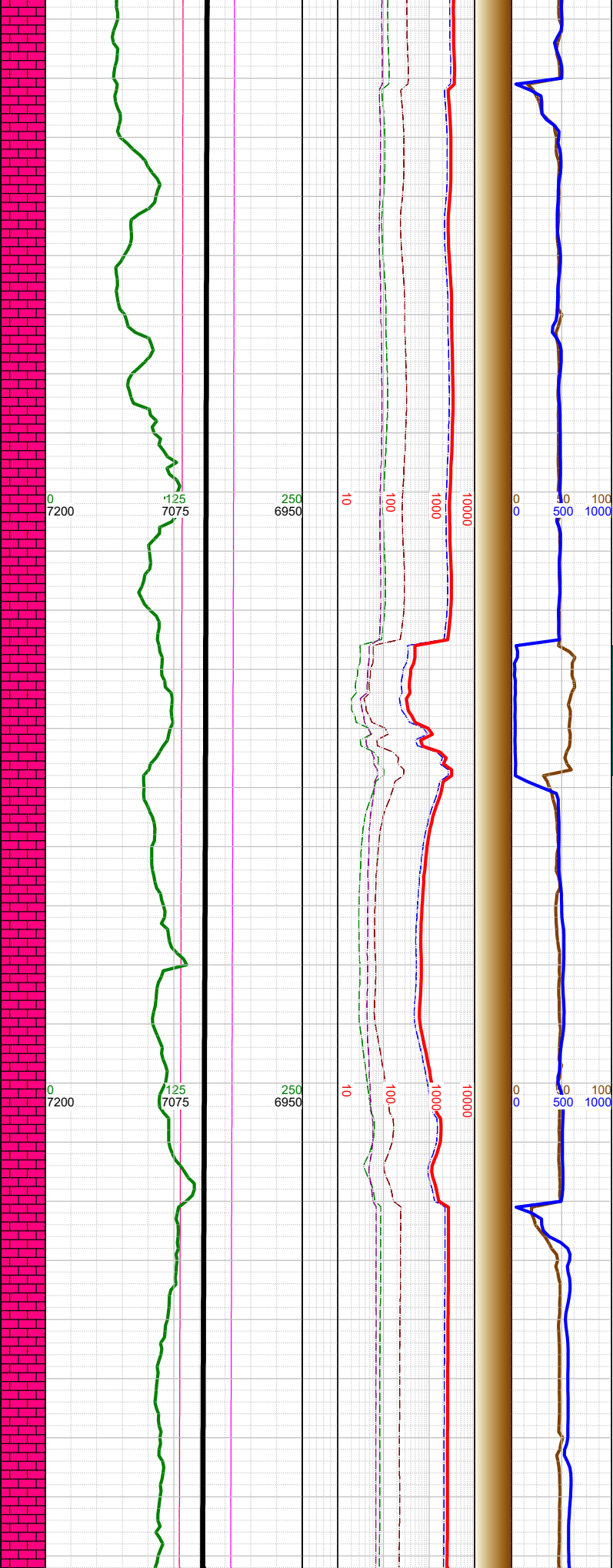


-14250 CHK: med gybrn, sft-sbfrm, sbblky, mot, rthy lstr, v calc; MARL: dk gy, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty;

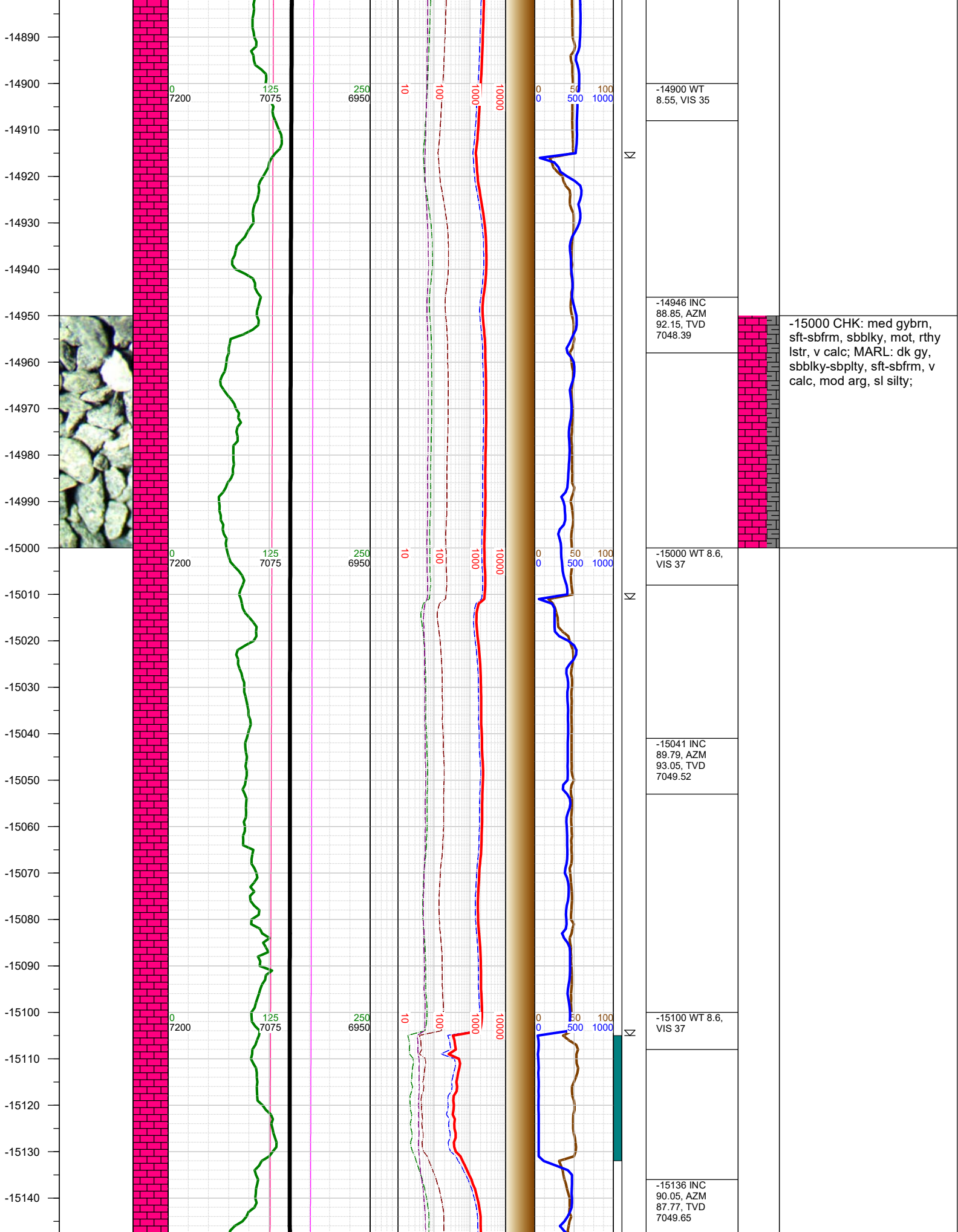


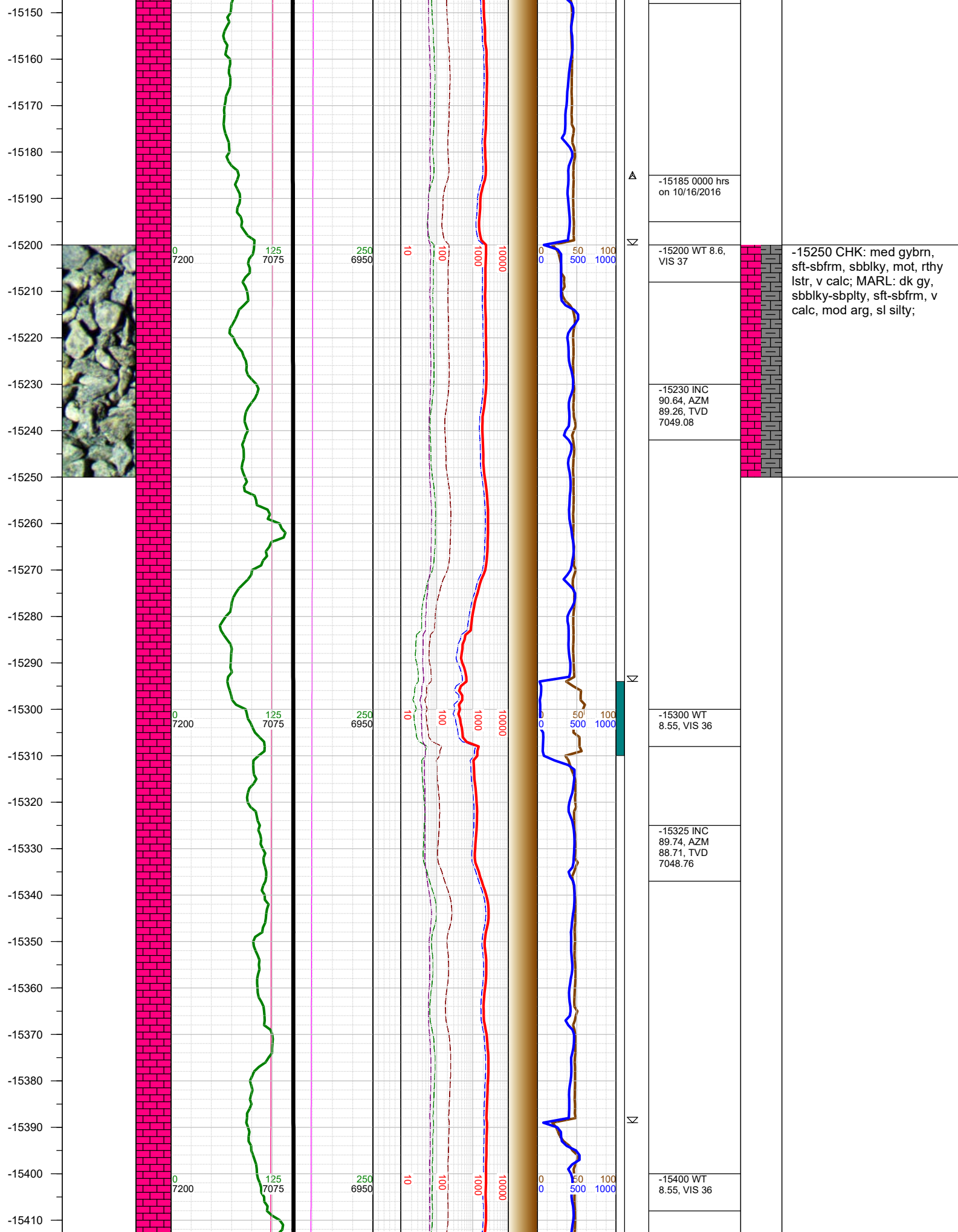
-14500 CHK: lt-med gybrn, sft-sbfrm, sbblky, mot, rthy lstr, v calc; MARL: dk gy, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr bent, tr pyr, tr fos frag

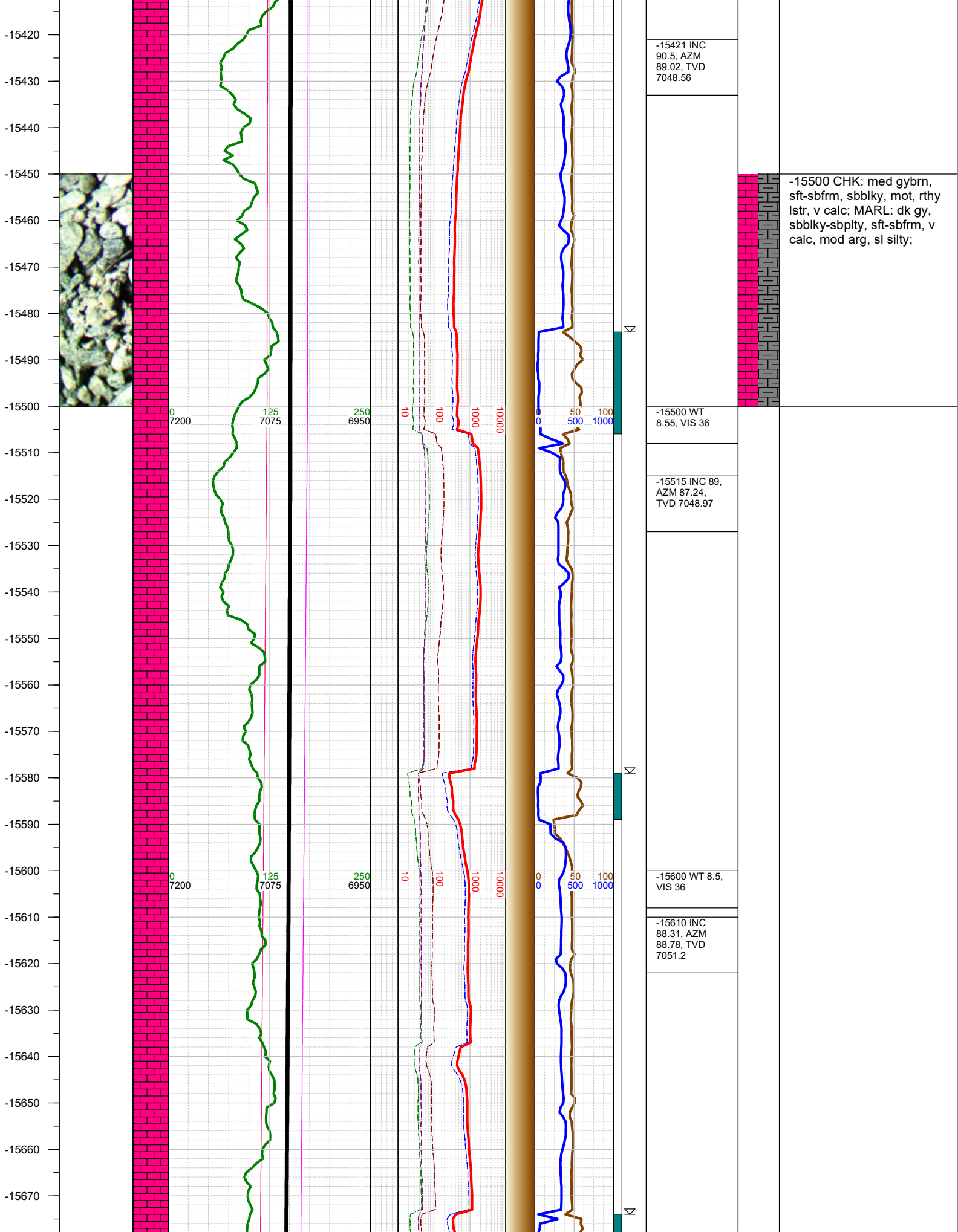
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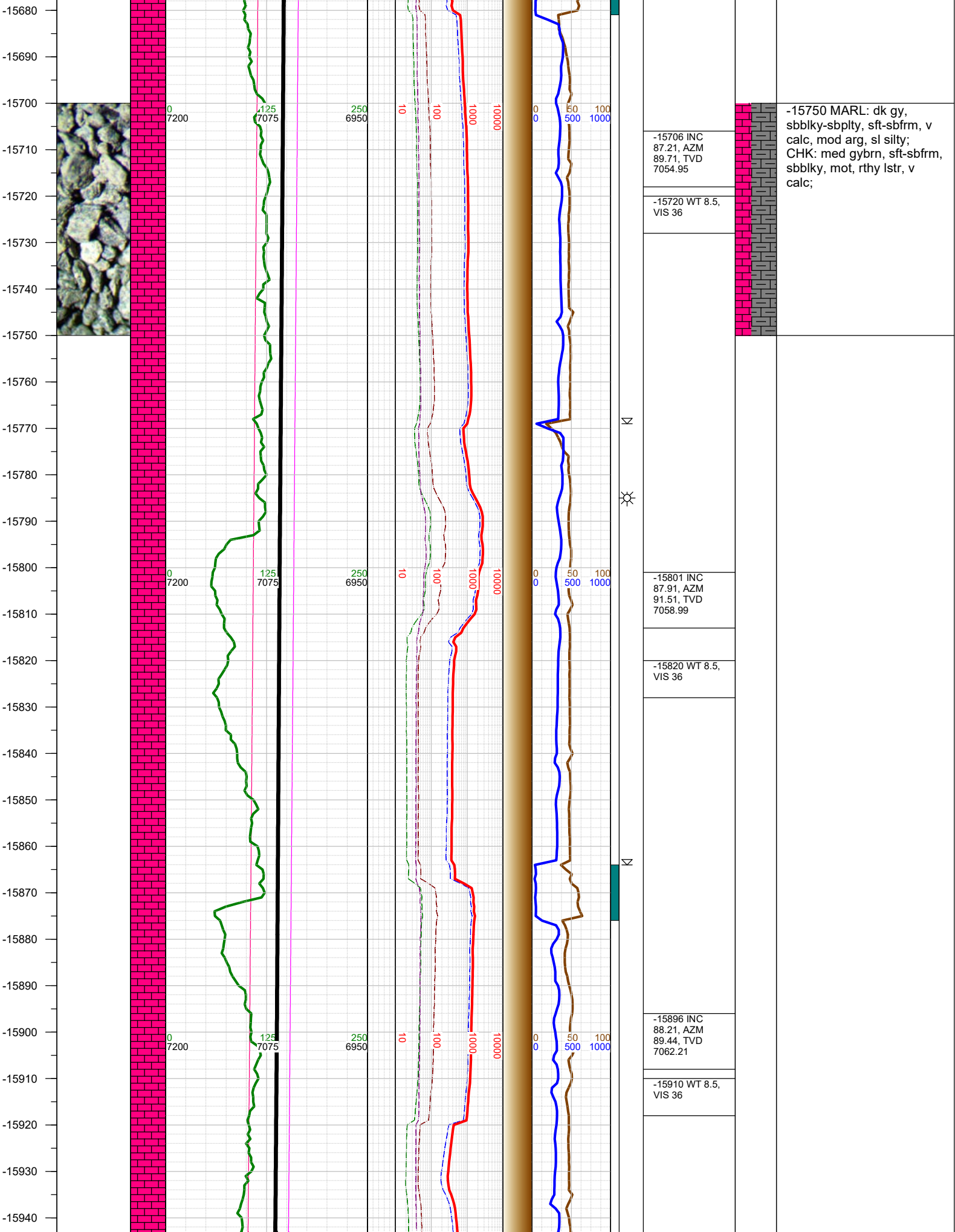


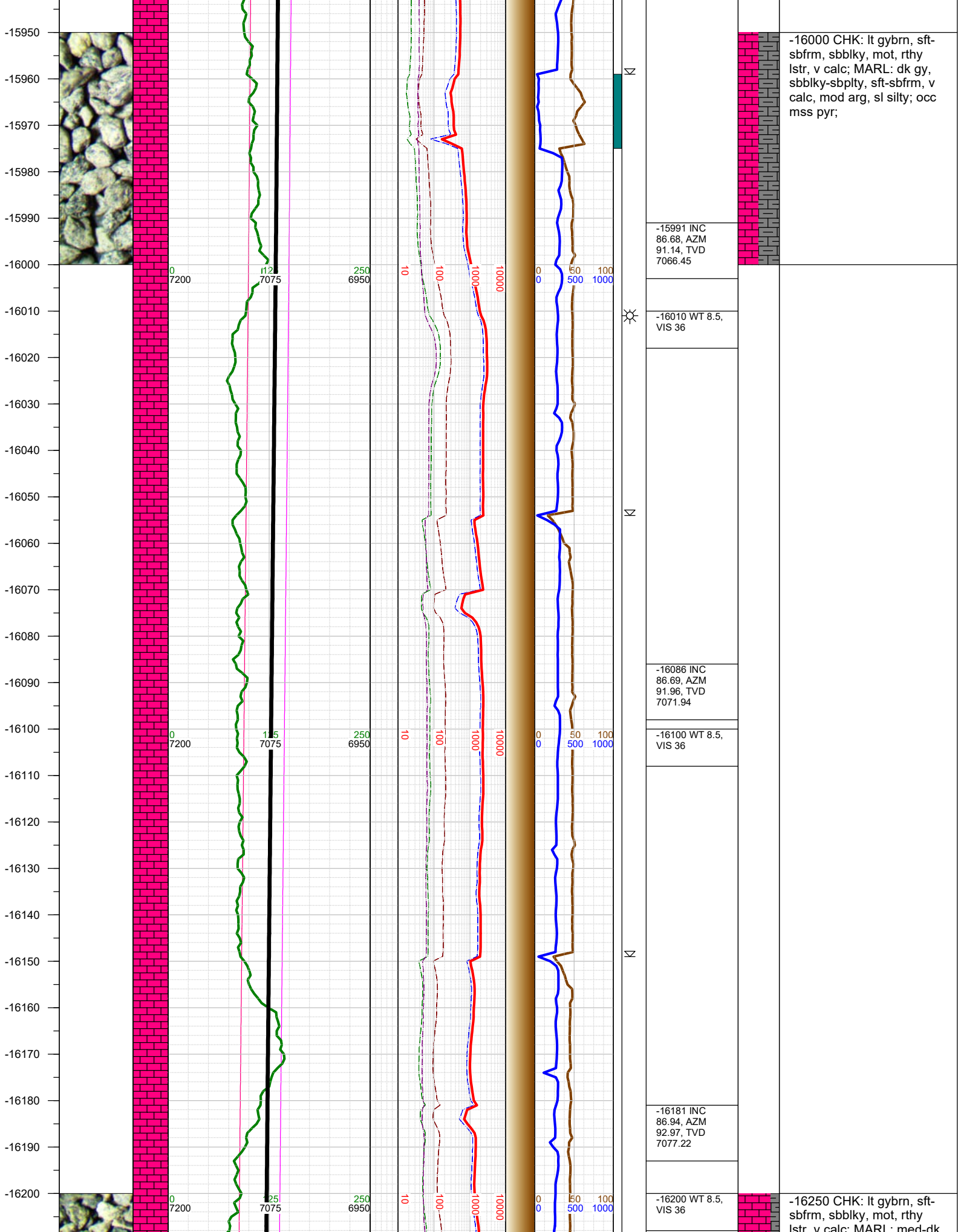
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	-14700 WT 8.55, VIS 35		-14750 CHK: med gybrn, sft-sbfrm, sbblky, mot, rthy lstr, v calc; MARL: dk gy, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty;
Σ	-14757 INC 88.54, AZM 91.11, TVD 7044.47		
	-14800 WT 8.55, VIS 35		
Σ	-14852 INC 88.93, AZM 92.66, TVD 7046.57		

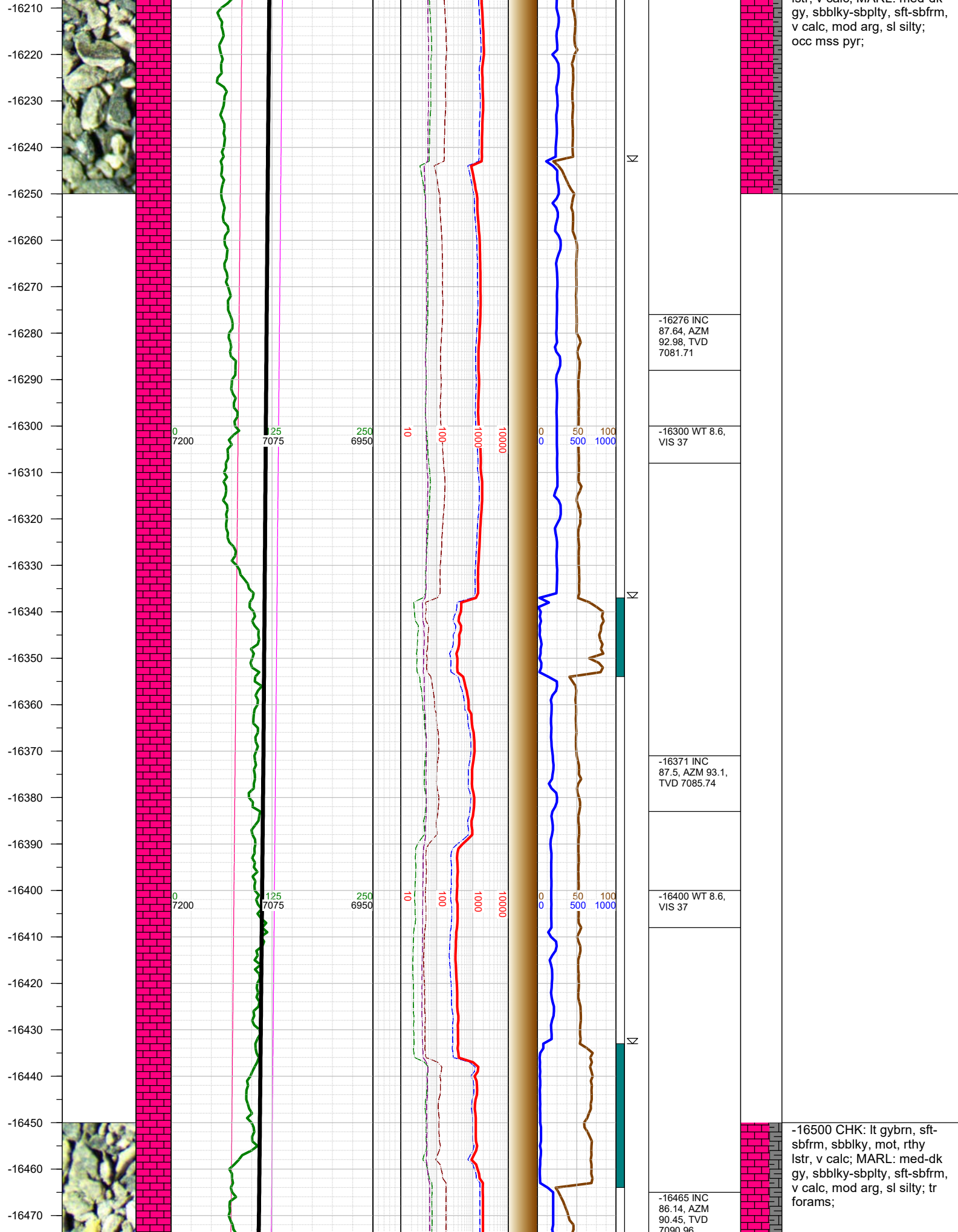




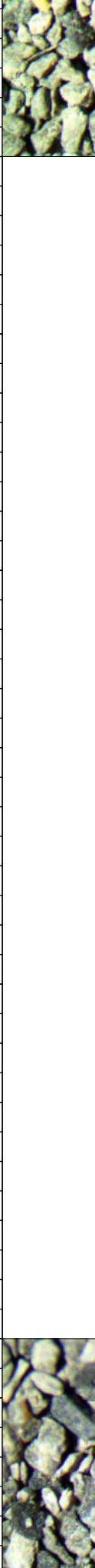








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-16500 WT 8.6,
VIS 37

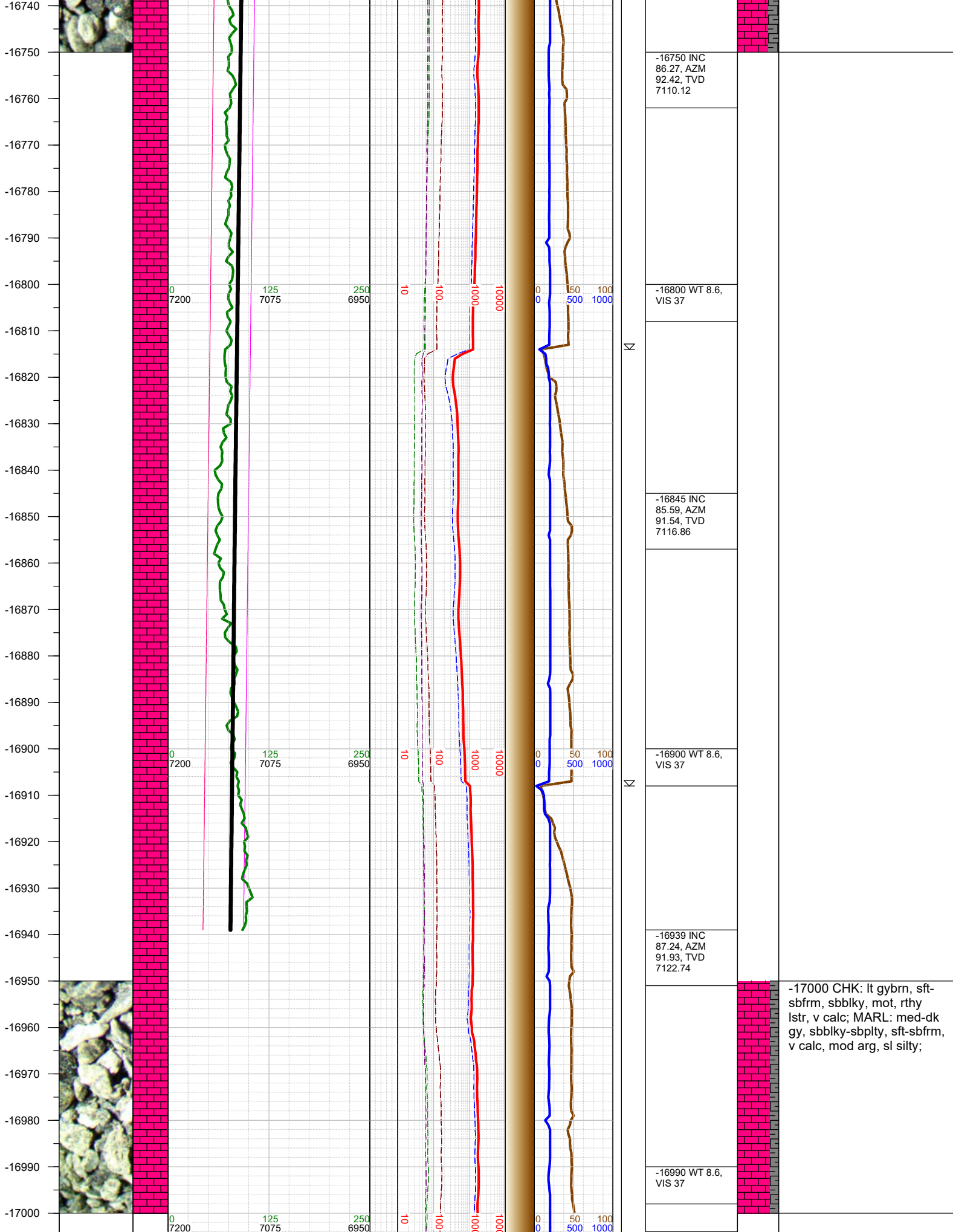
-16561 INC
85.96, AZM
90.01, TVD
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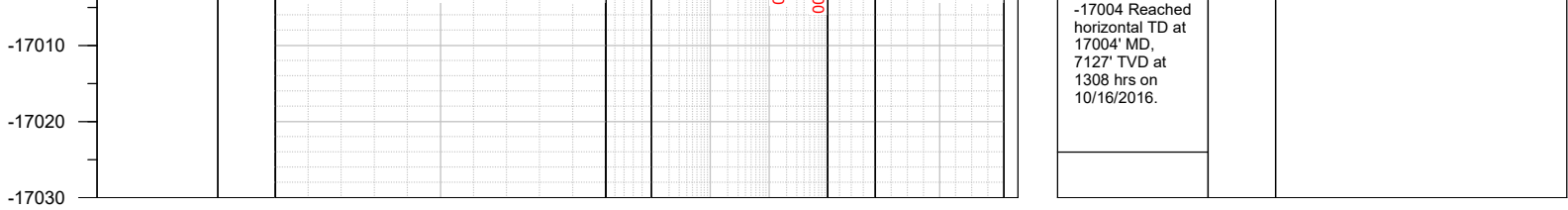
-16600 WT 8.6,
VIS 37

-16655 INC
86.27, AZM
90.26, TVD
7103.94

-16700 WT 8.6,
VIS 37

-16750 CHK: lt gybrn, sft-
sbfrm, sbblky, mot, rthy
lstr, v calc; MARL: med-dk
gy, sbblky-sbplty, sft-sbfrm,
v calc, mod arg, sl silty; tr
forams;





TOTAL DEPTH = 17004'

Thank you for using Earth Science Agency