

OPERATOR: **Extraction Oil & Gas**
WELL NAME: **MT Fed Heath 8W-20-13**
FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Patterson 340
API #: 05-123-42173

LAT/LONG: 40.41803, -104.67166
SURFACE HOLE: NENW S9-T5N-R65W, 1020' FNL, 1753' FWL
BOTTOM HOLE: S7-T5N-R65W, 2956' FNL, 460' FWL

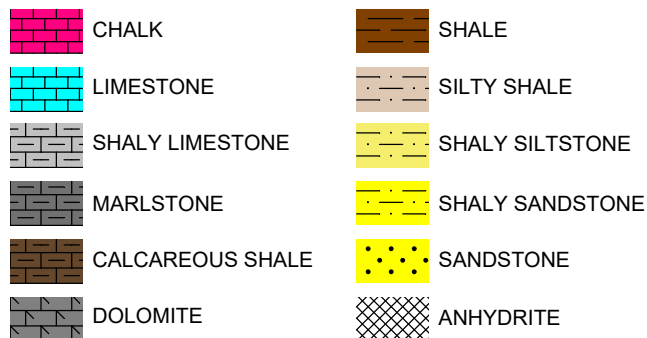


Earth Science Agency, LLC

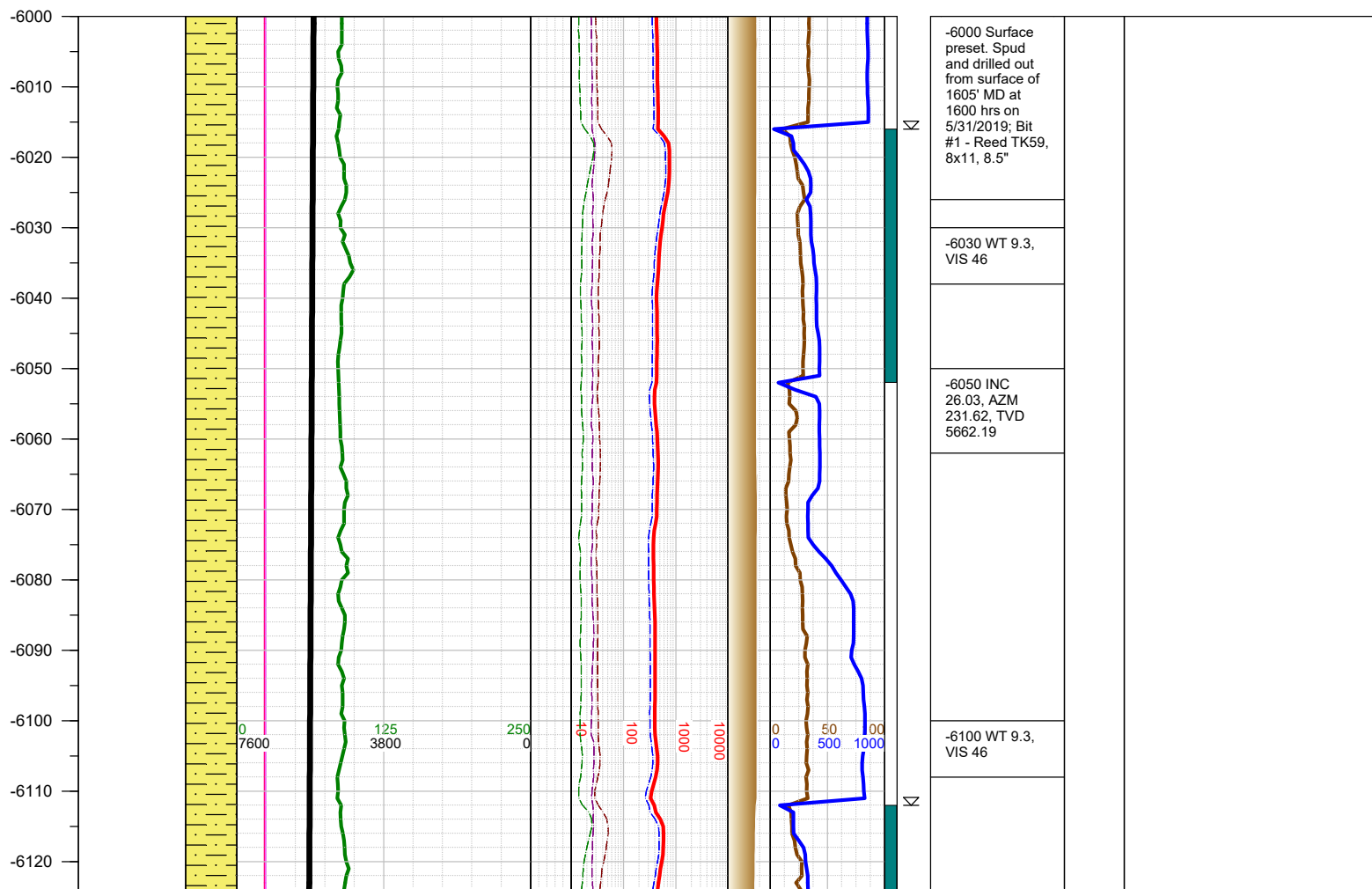
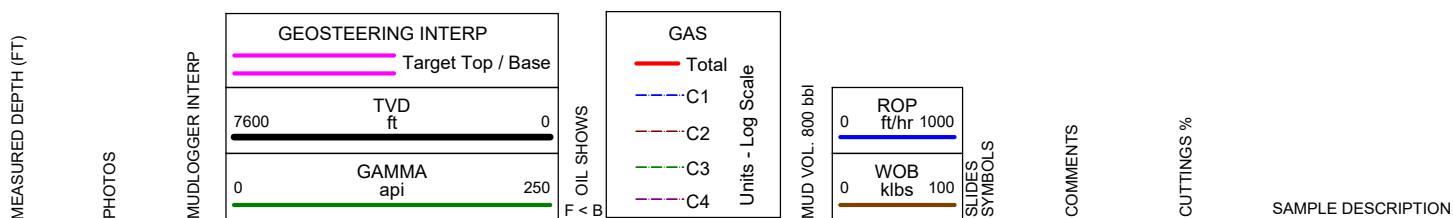
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4635'
KELLY BUSHING: 4660'
DRILLING FLUID: OBM
TVD VS. MD: 6875' / 17278'
SPUD DATE: May 31, 2019
TD DATE: June 3, 2019

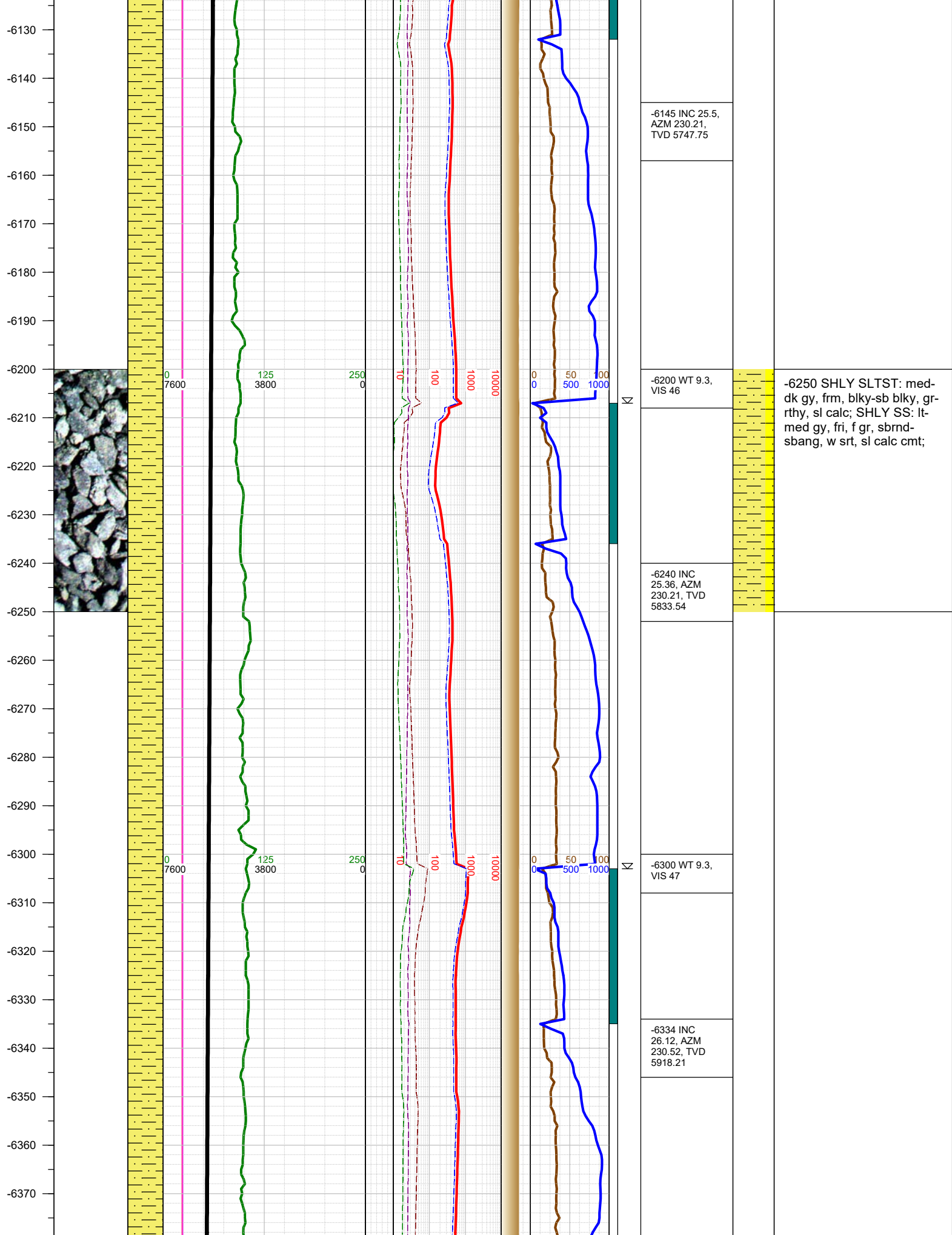
DEPTHS LOGGED: 6000' - 17278'
DATES LOGGED: May 31, 2019 - June 3, 2019
GEOLOGISTS: Dan Jacobs, Curtis Magnino
SCALE: 5" = 100'

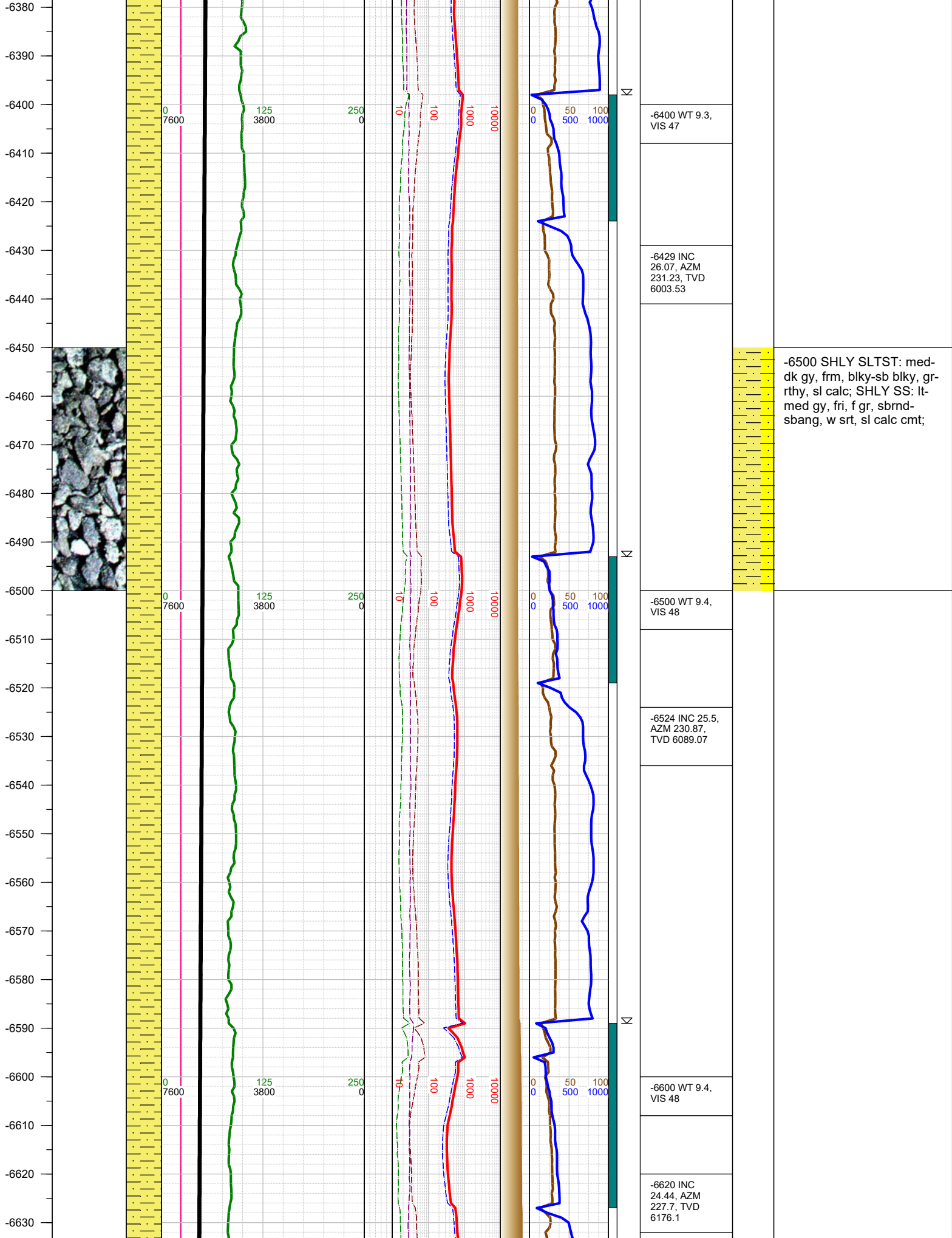
LEGEND

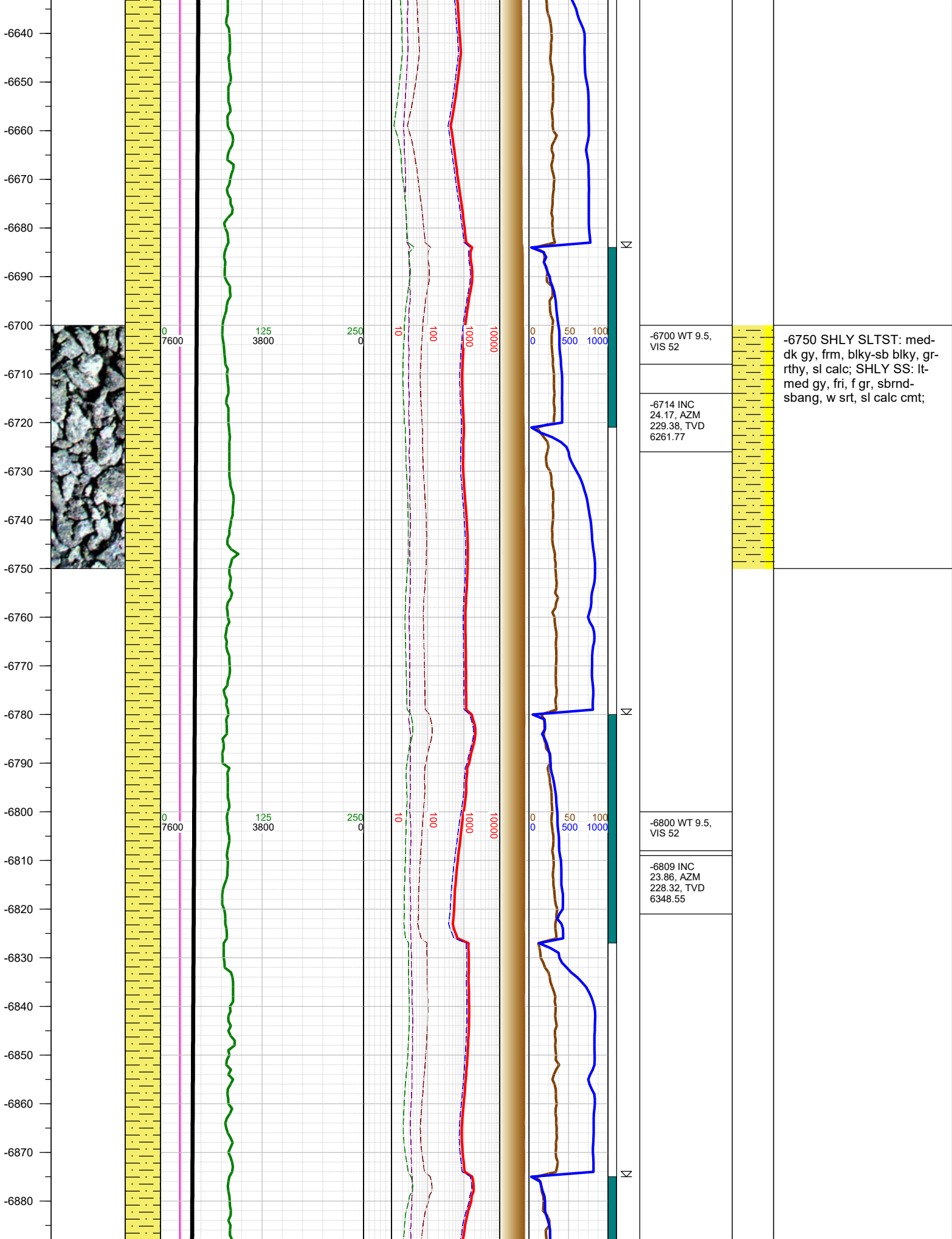


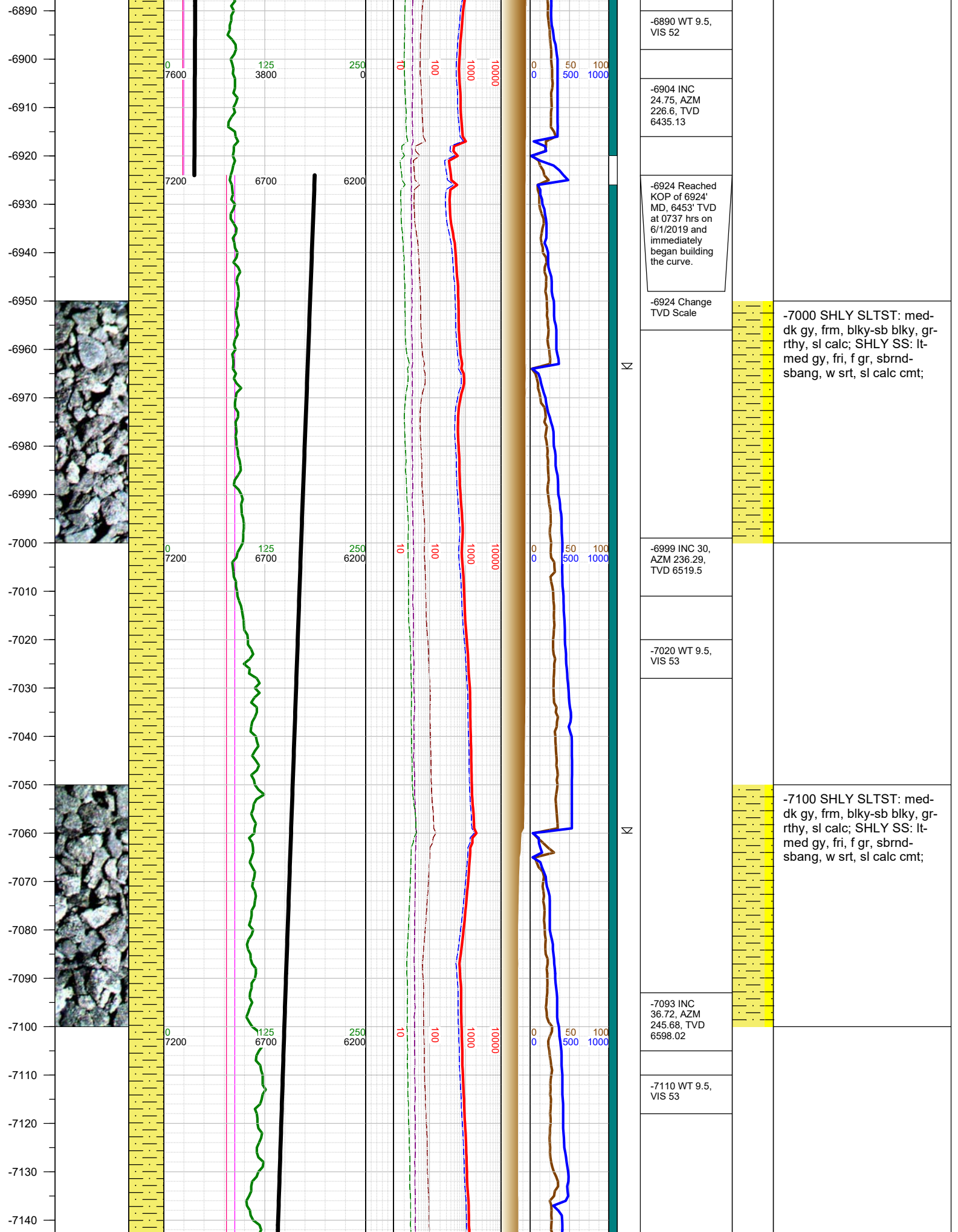
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

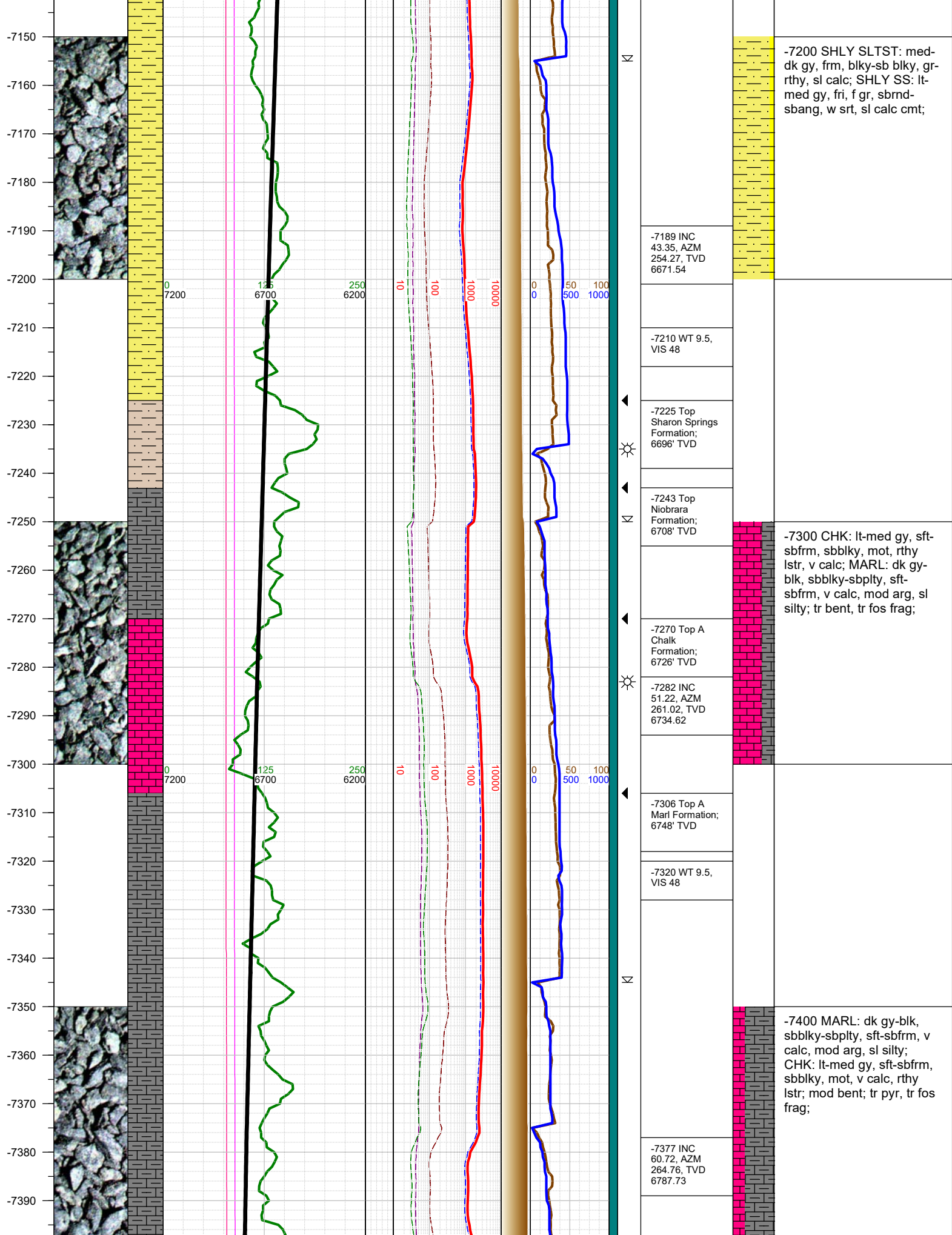


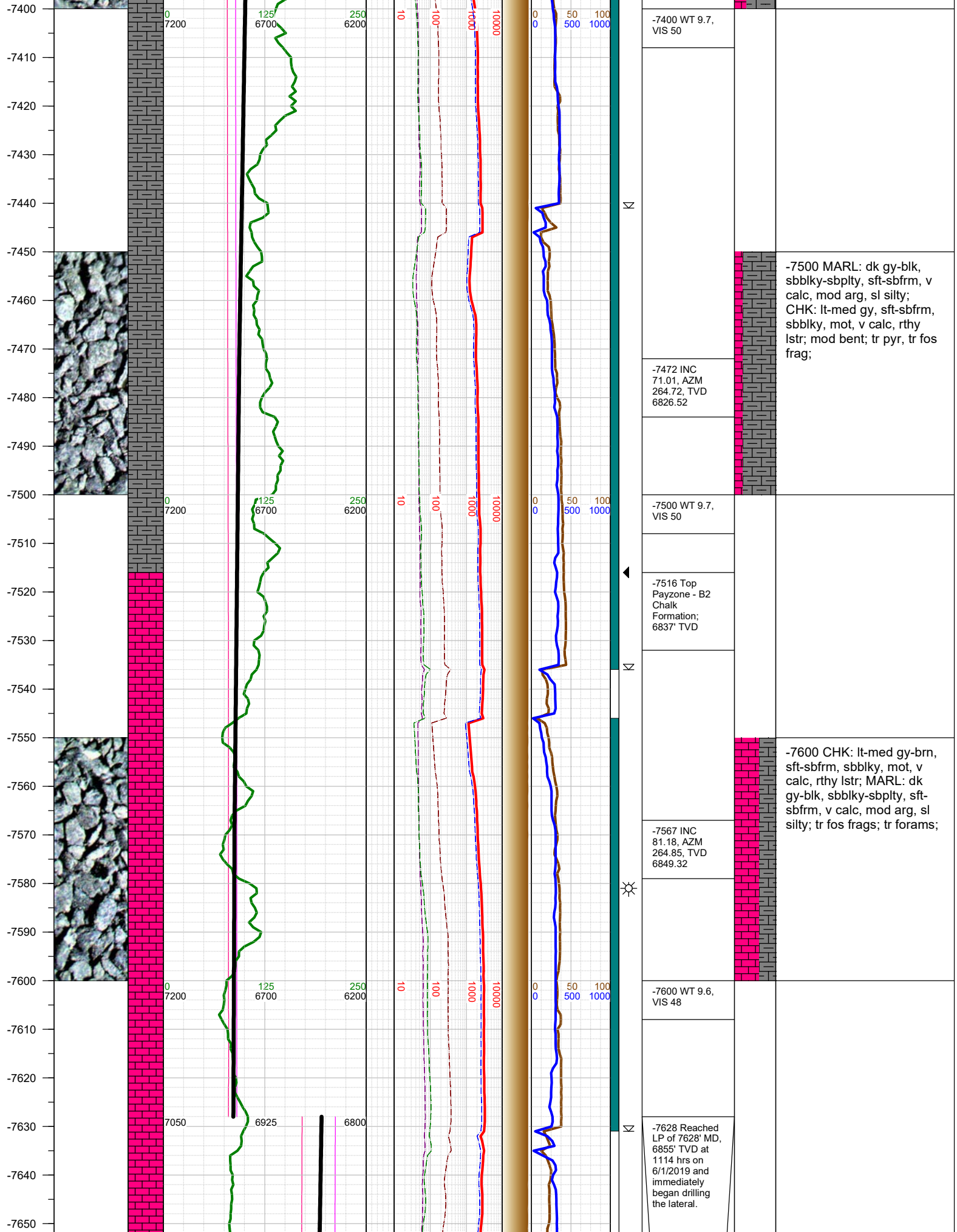


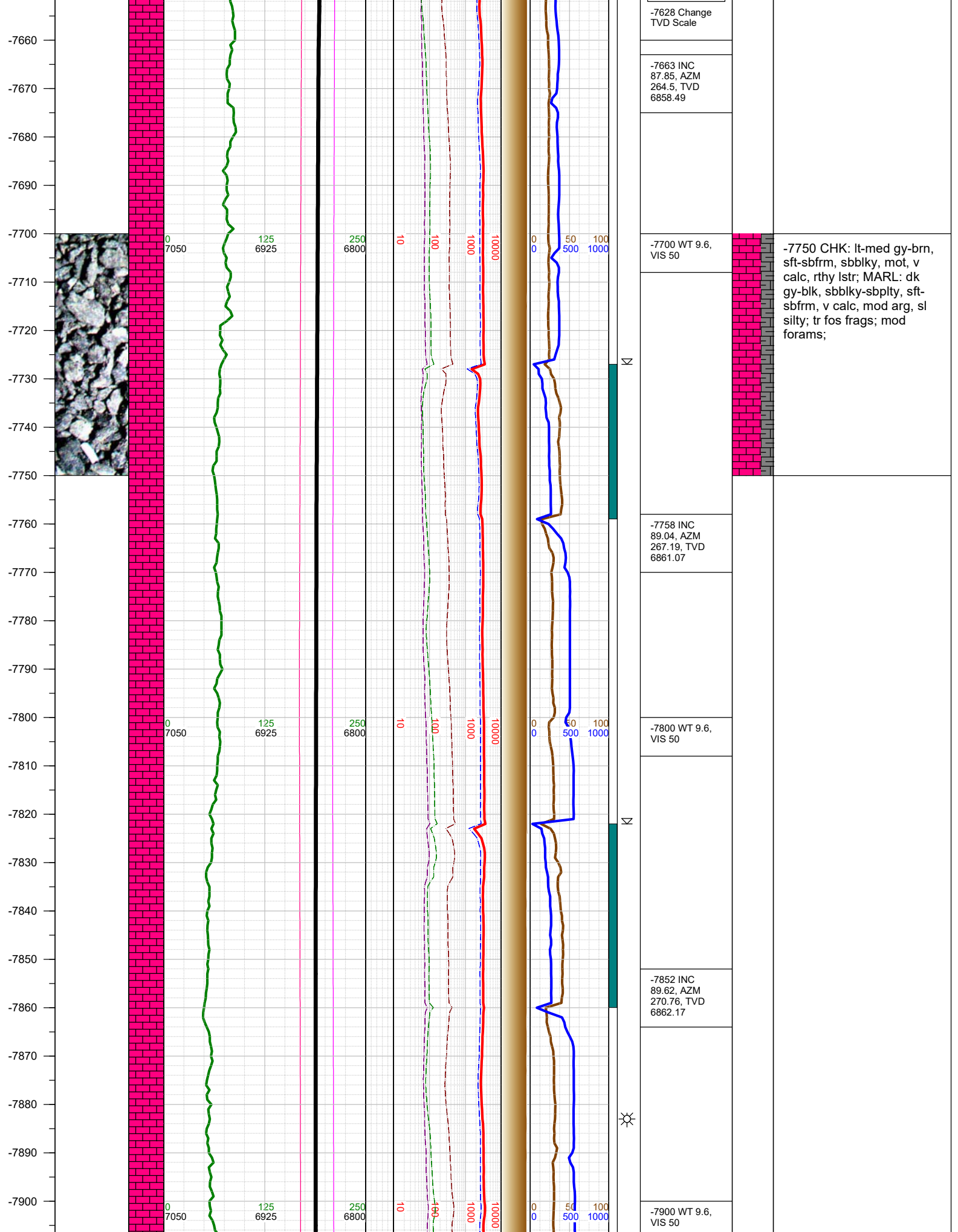




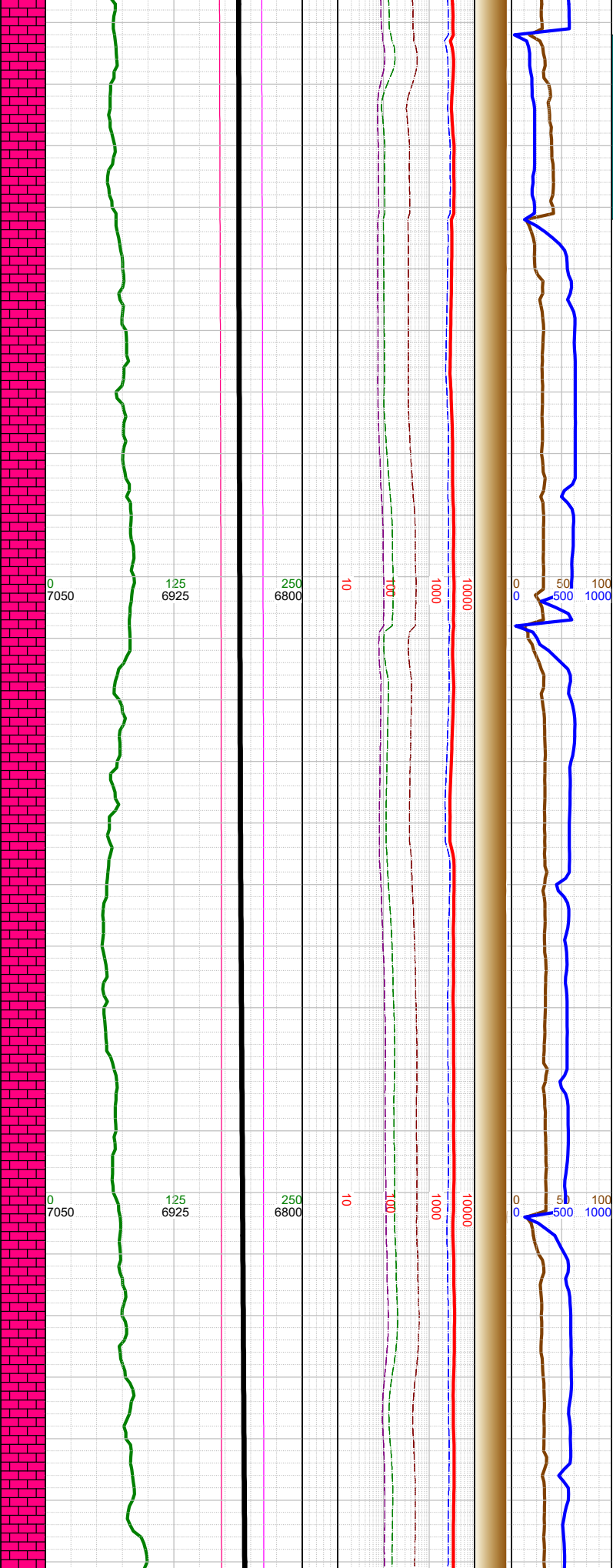






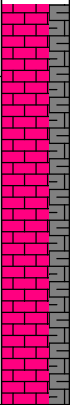


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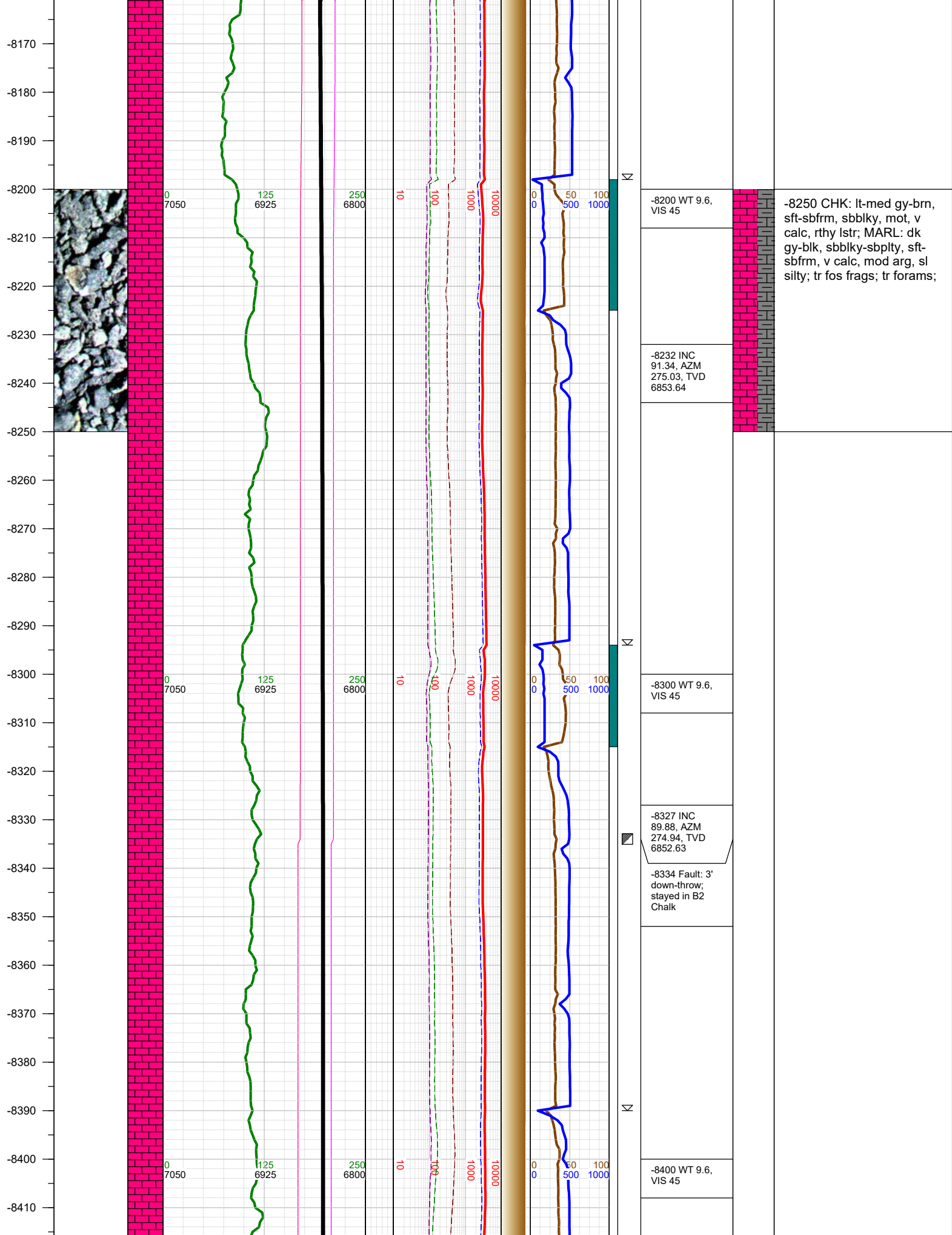


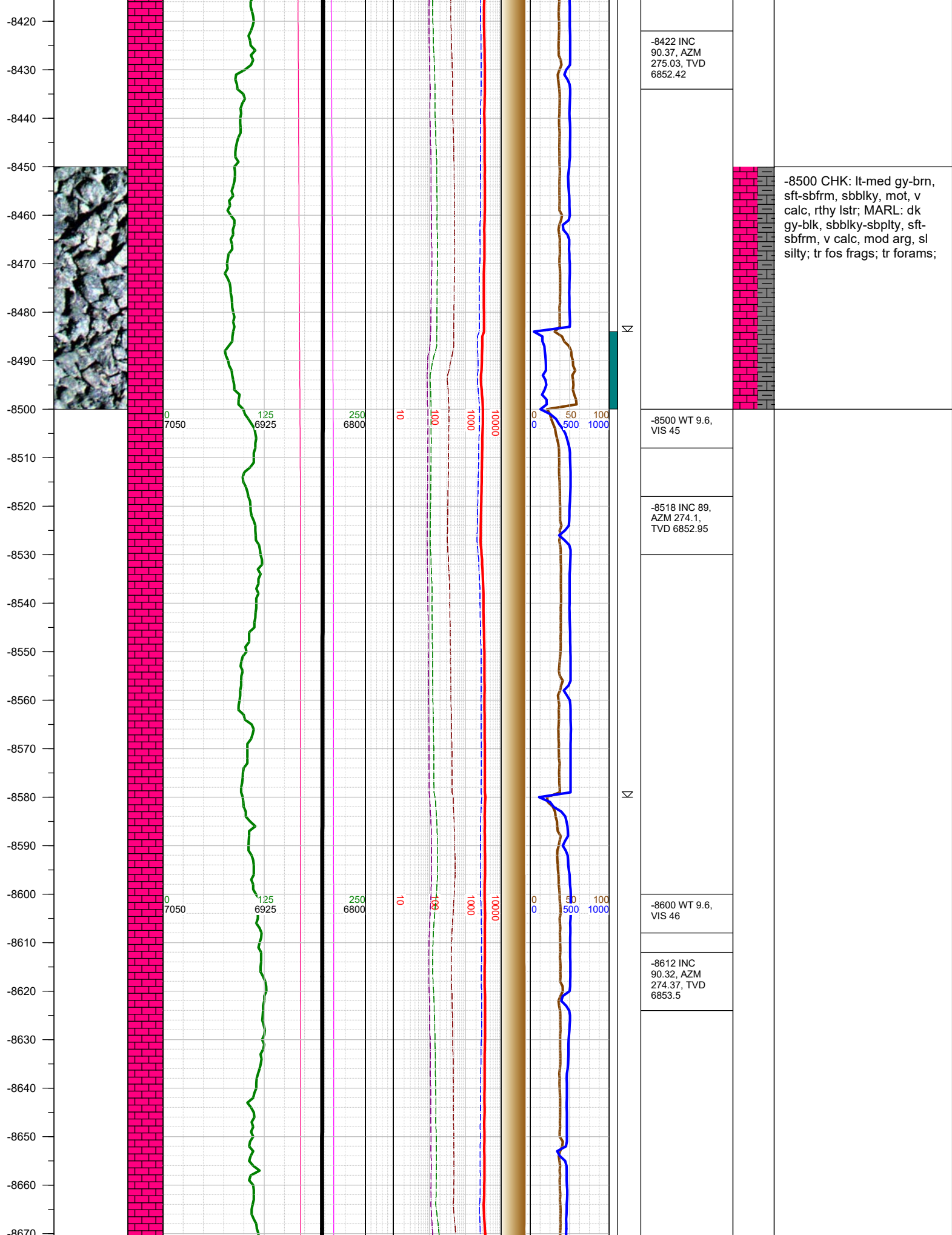
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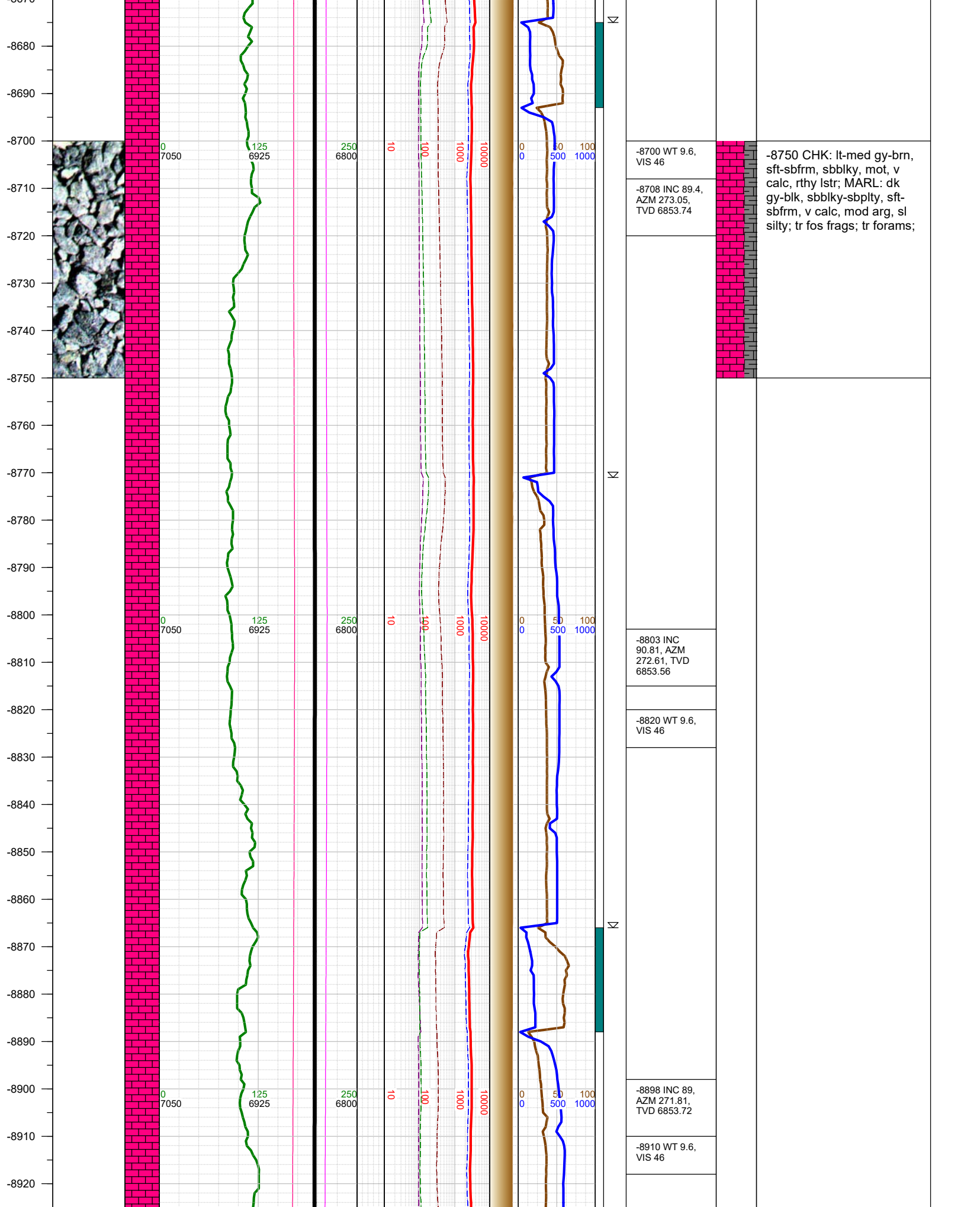
	-7947 INC 90.72, AZM 274.46, TVD 6861.89
	-8000 WT 9.6, VIS 45
	-8043 INC 91.21, AZM 273.62, TVD 6860.27
	-8100 WT 9.6, VIS 45
	-8138 INC 92.75, AZM 274.28, TVD 6856.99

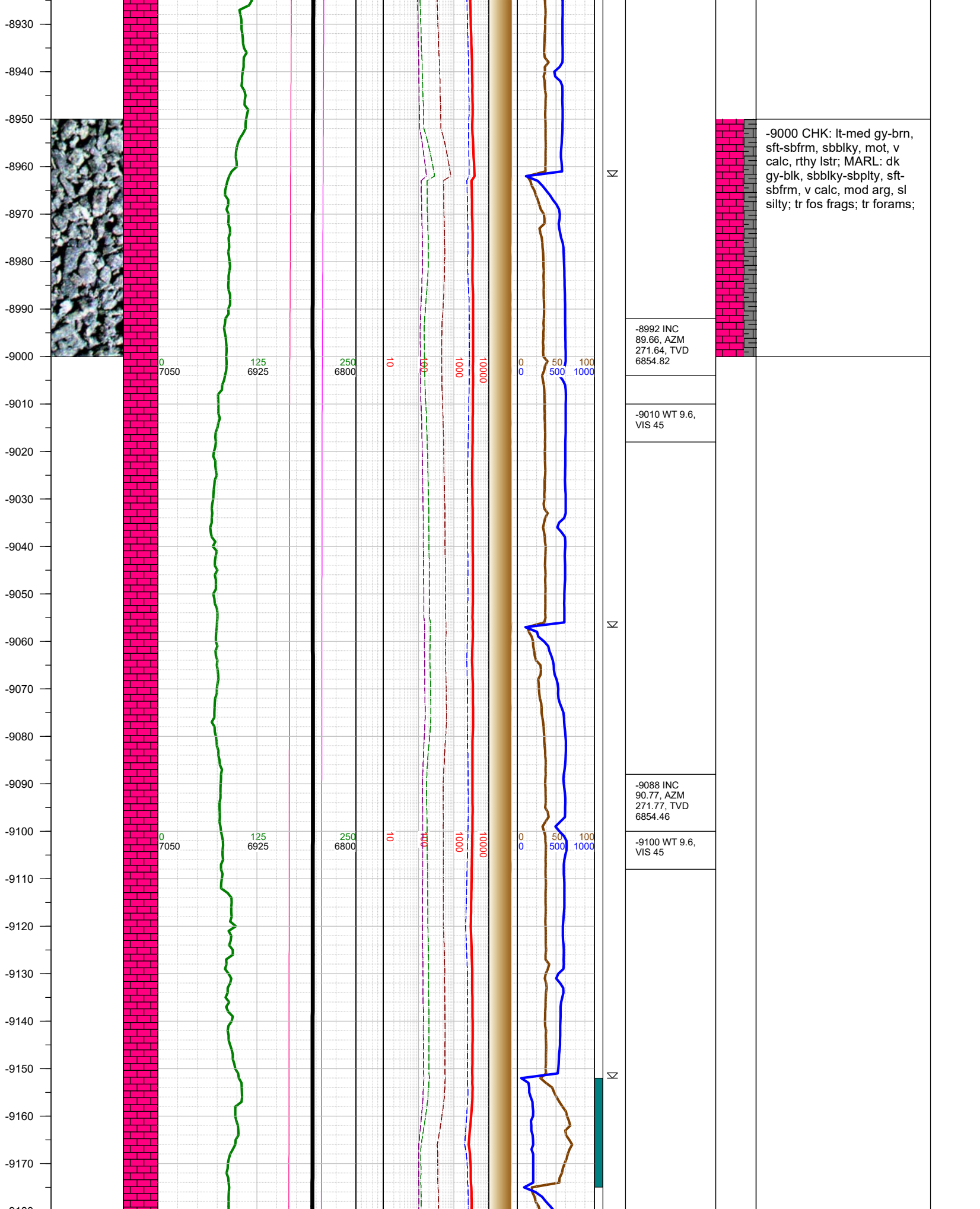


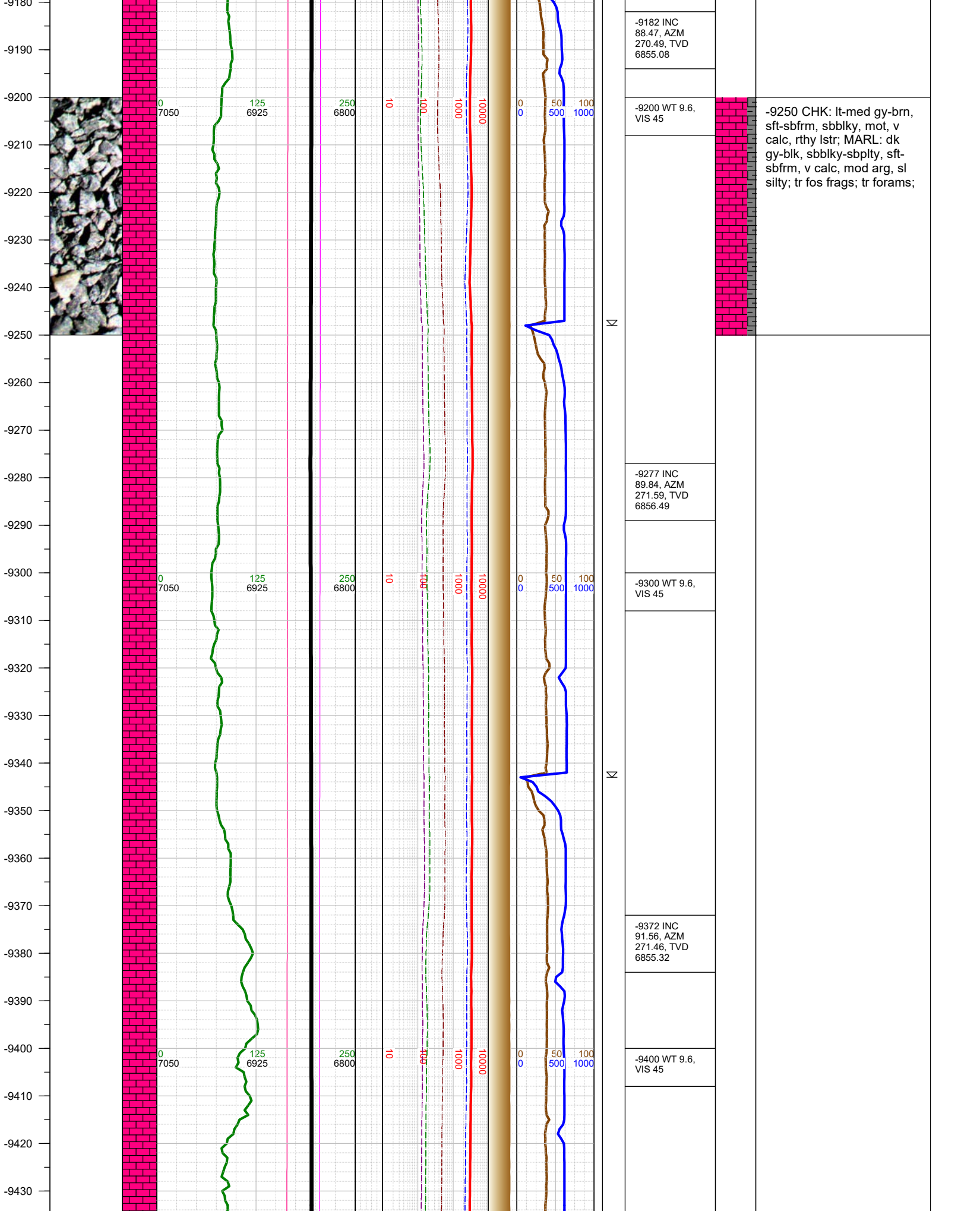
-8000 CHK: lt-med gy-brn,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, v calc, mod arg, sl
silty; tr fos frags; mod
forams;



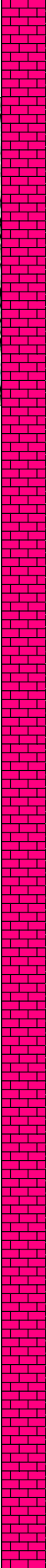
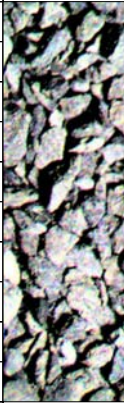








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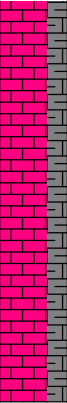
-9467 INC
88.64, AZM
271.99, TVD
6855.16

-9500 WT 9.4,
VIS 45

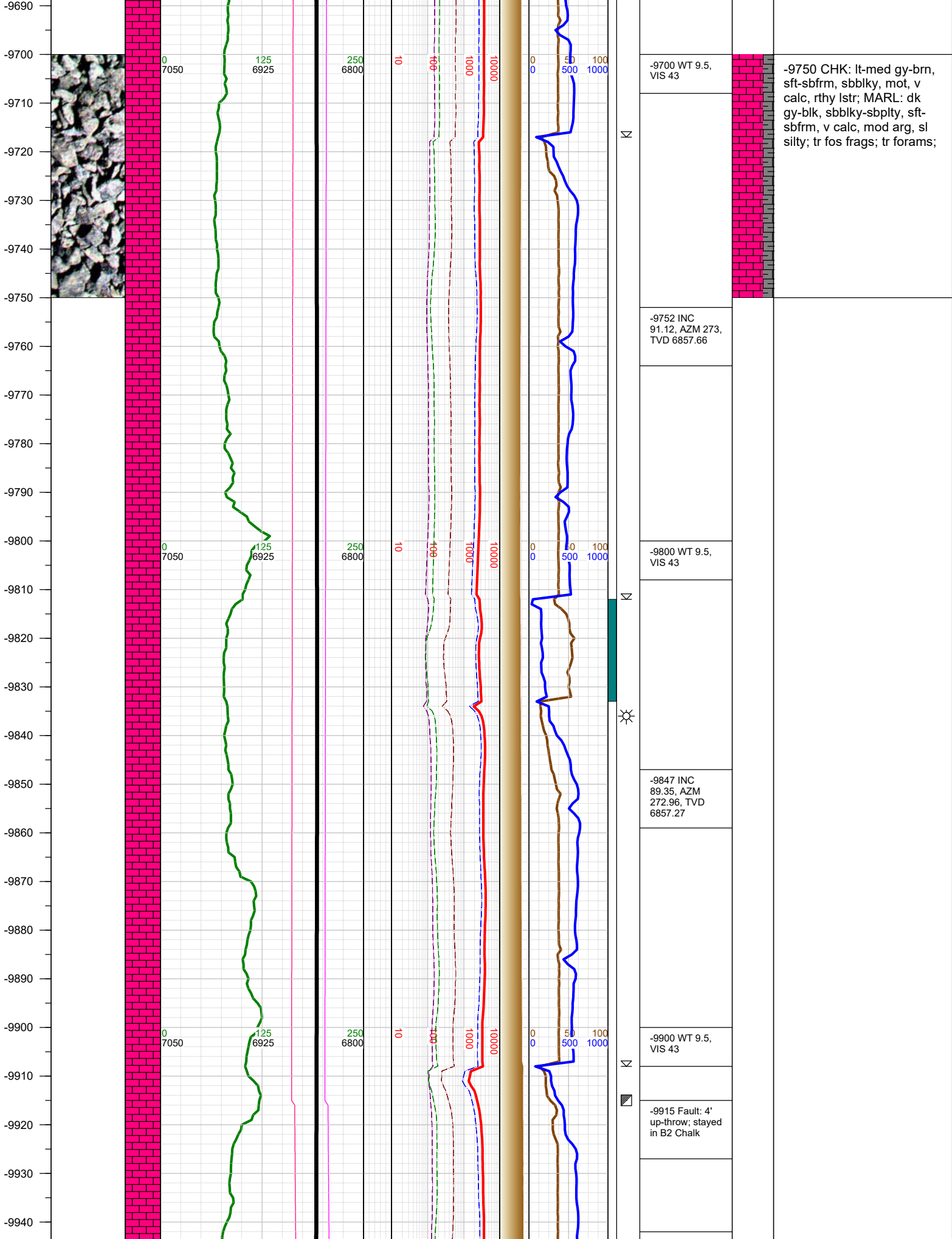
-9562 INC
88.91, AZM
272.91, TVD
6857.19

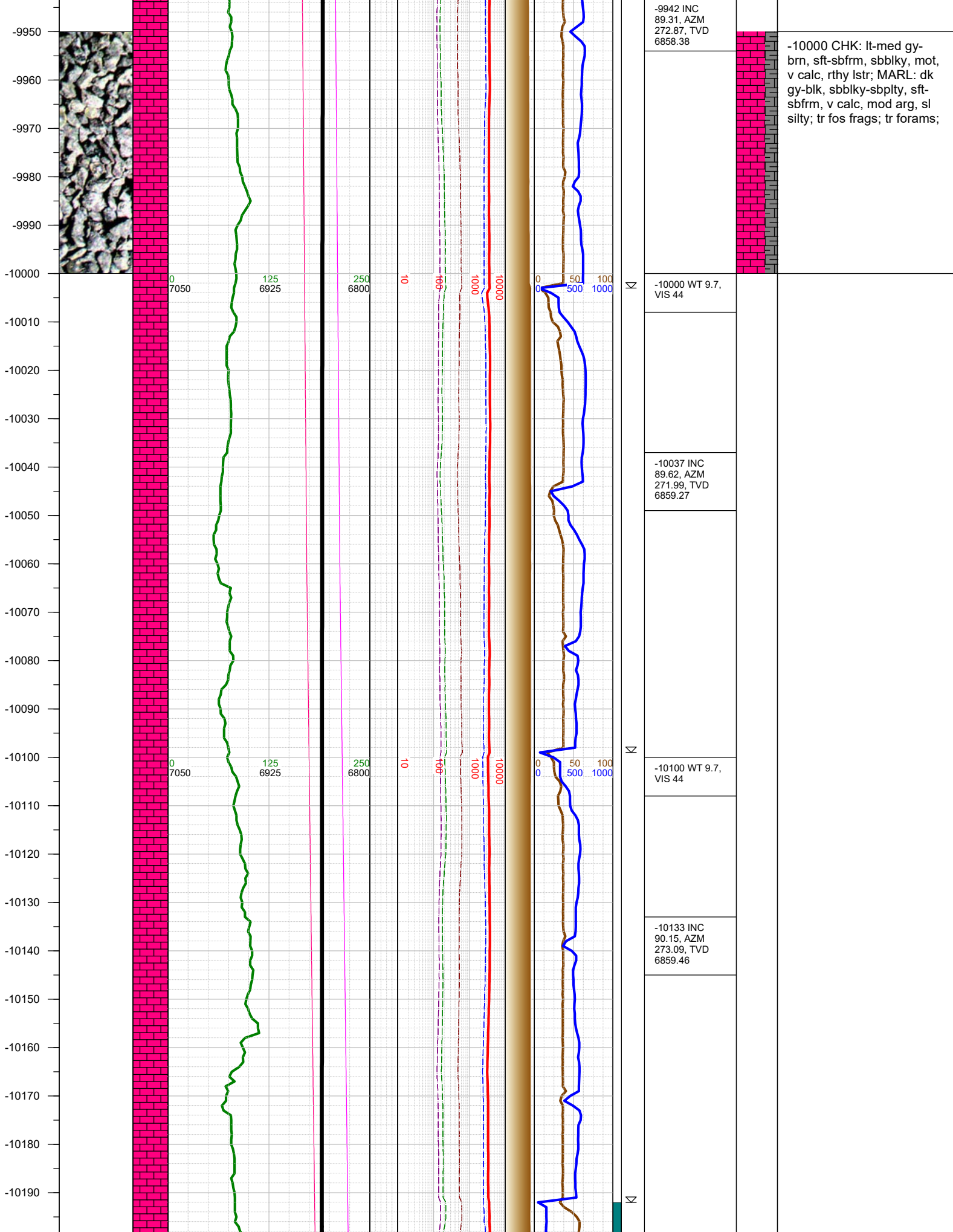
-9600 WT 9.4,
VIS 45

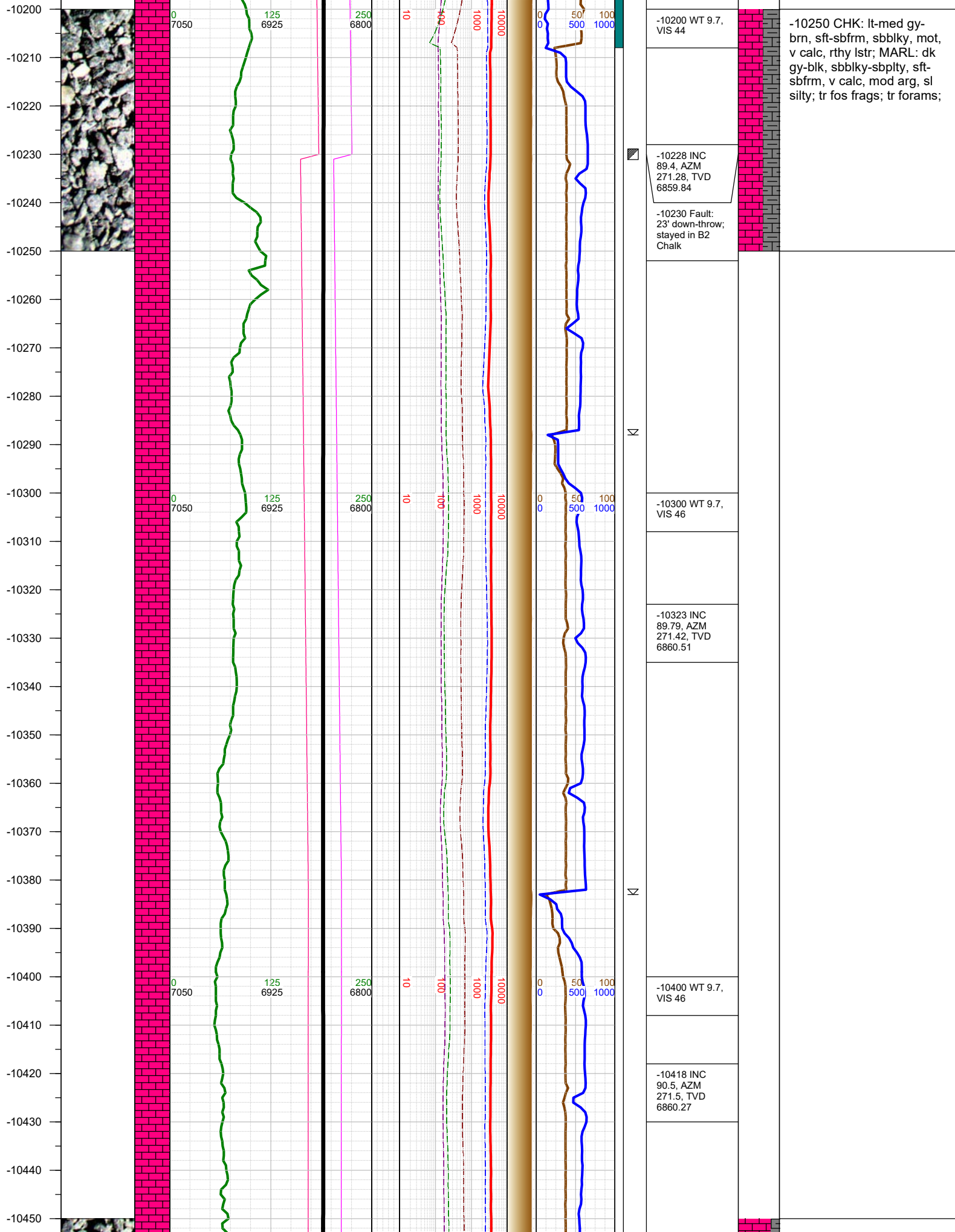
-9657 INC 89.7,
AZM 272.56,
TVD 6858.34

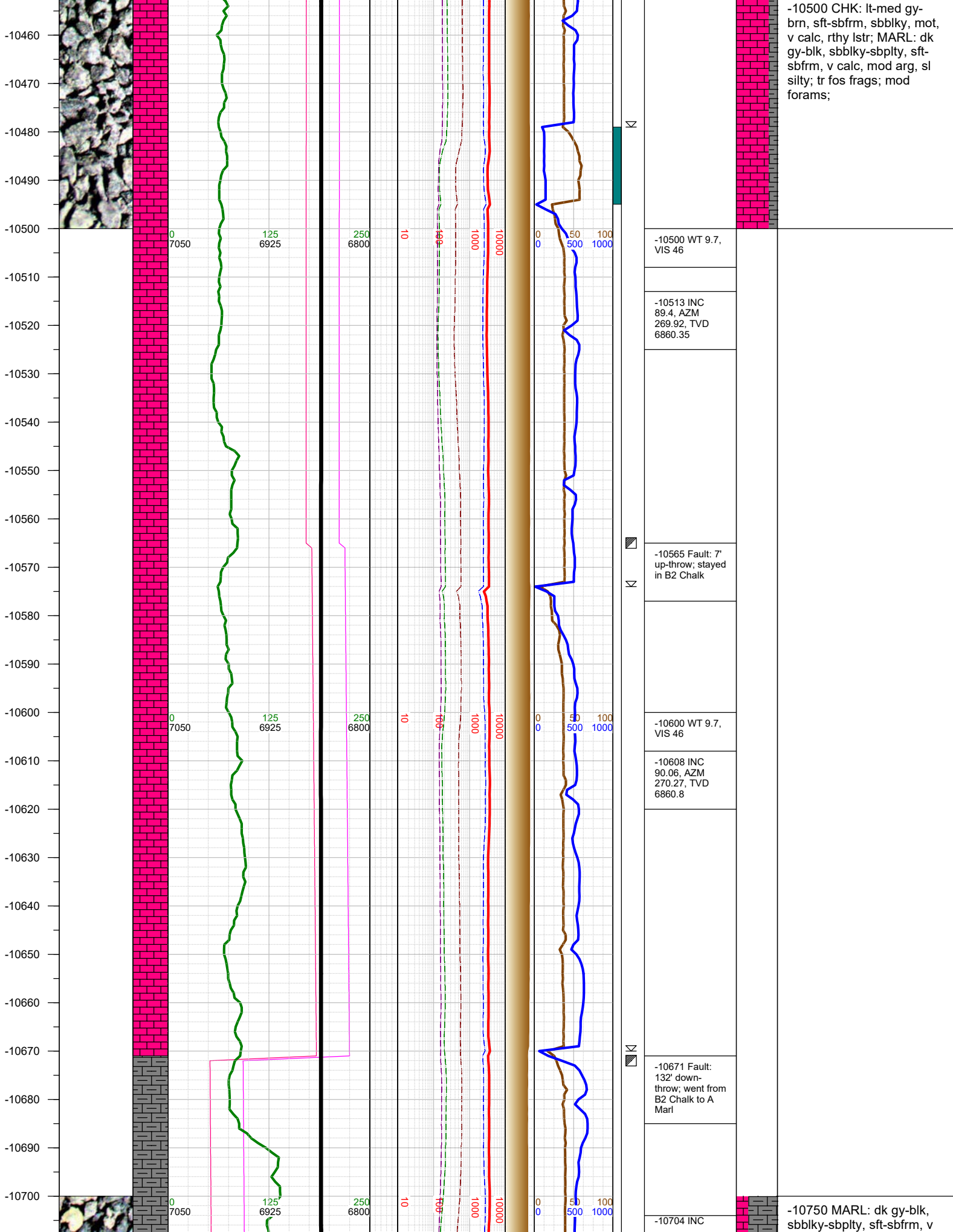


-9500 CHK: lt-med gy-brn,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbply, sft-
sbfrm, v calc, mod arg, sl
silty; tr fos frags; tr forams;



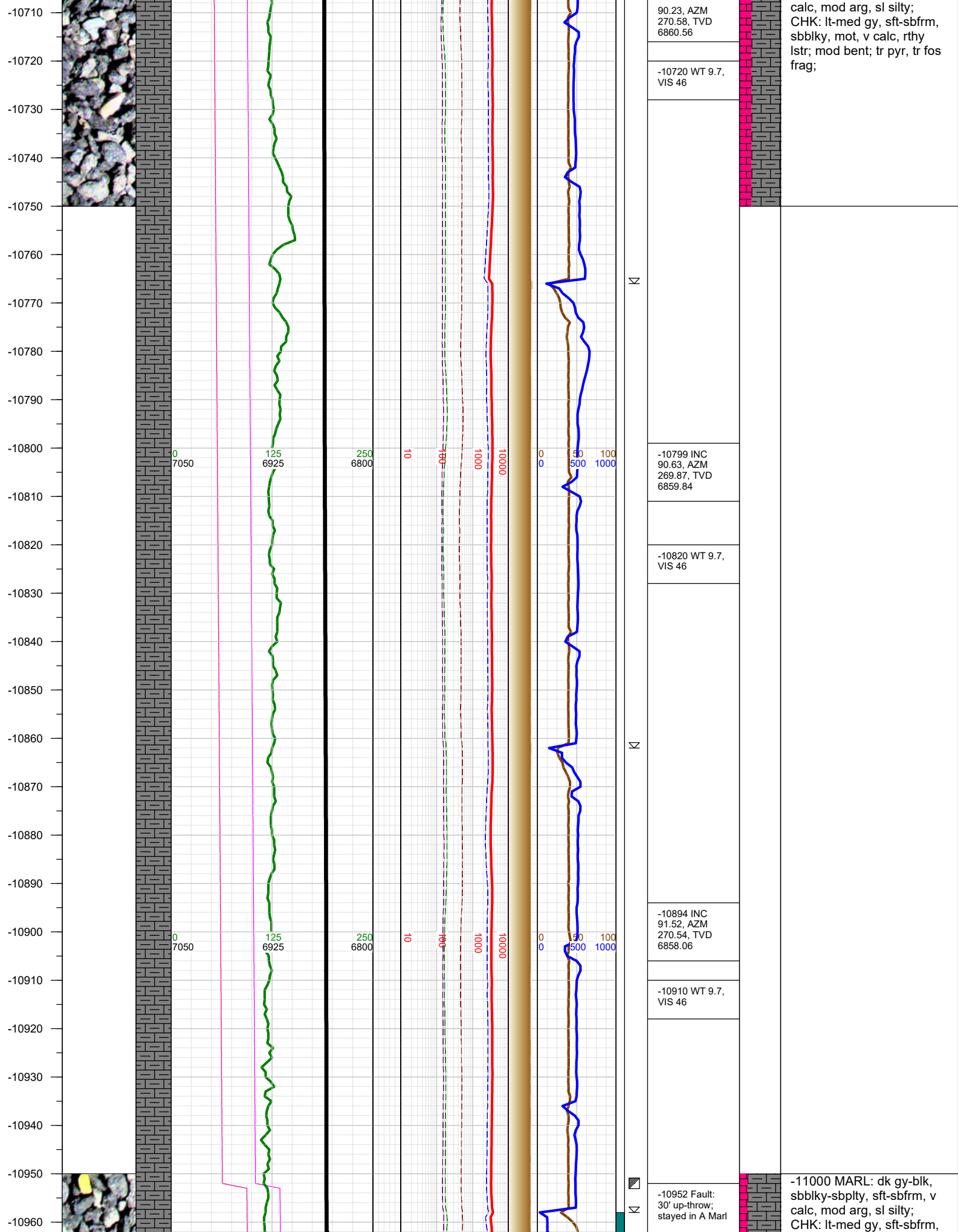


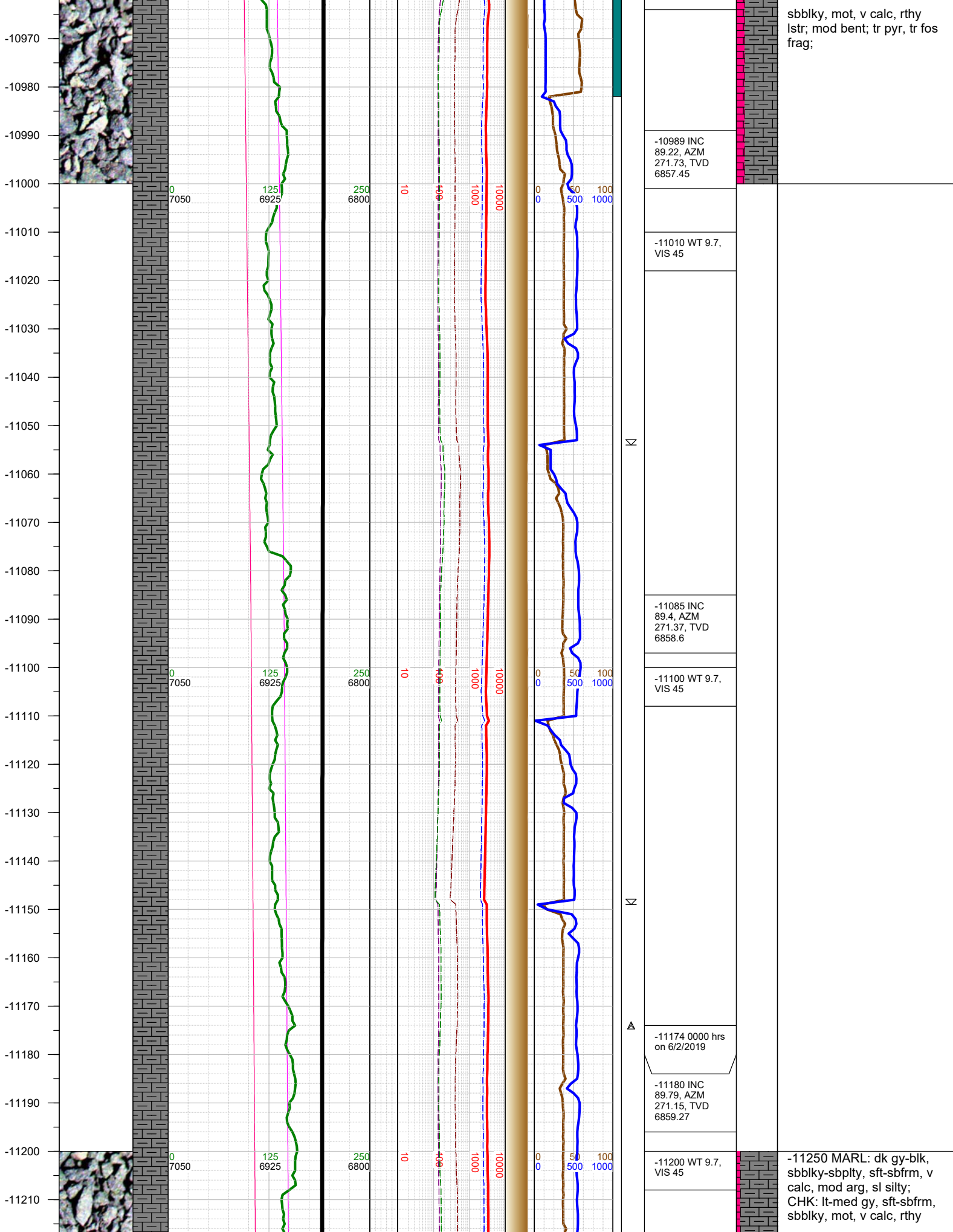


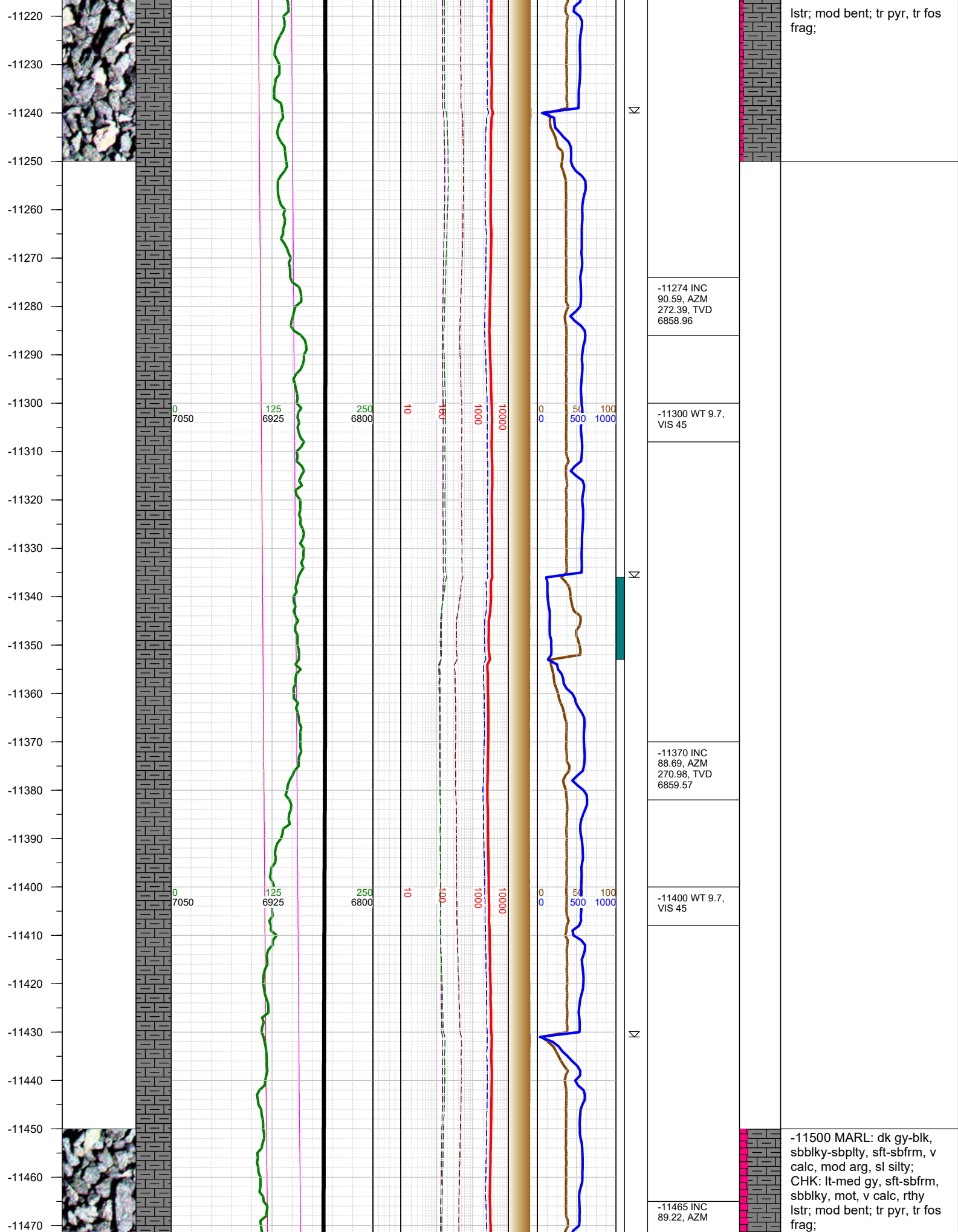


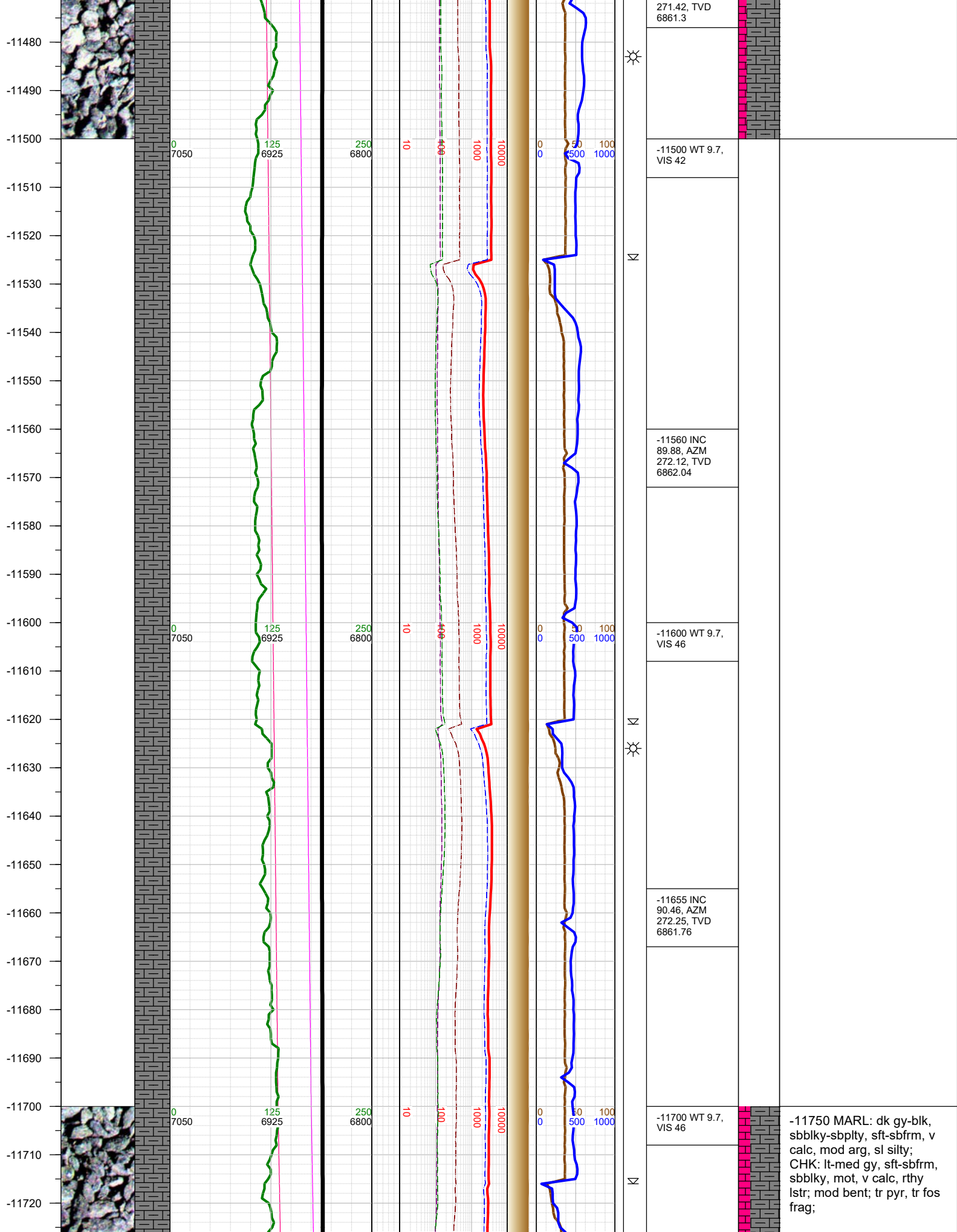
-10500 CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr fos frags; mod forams;

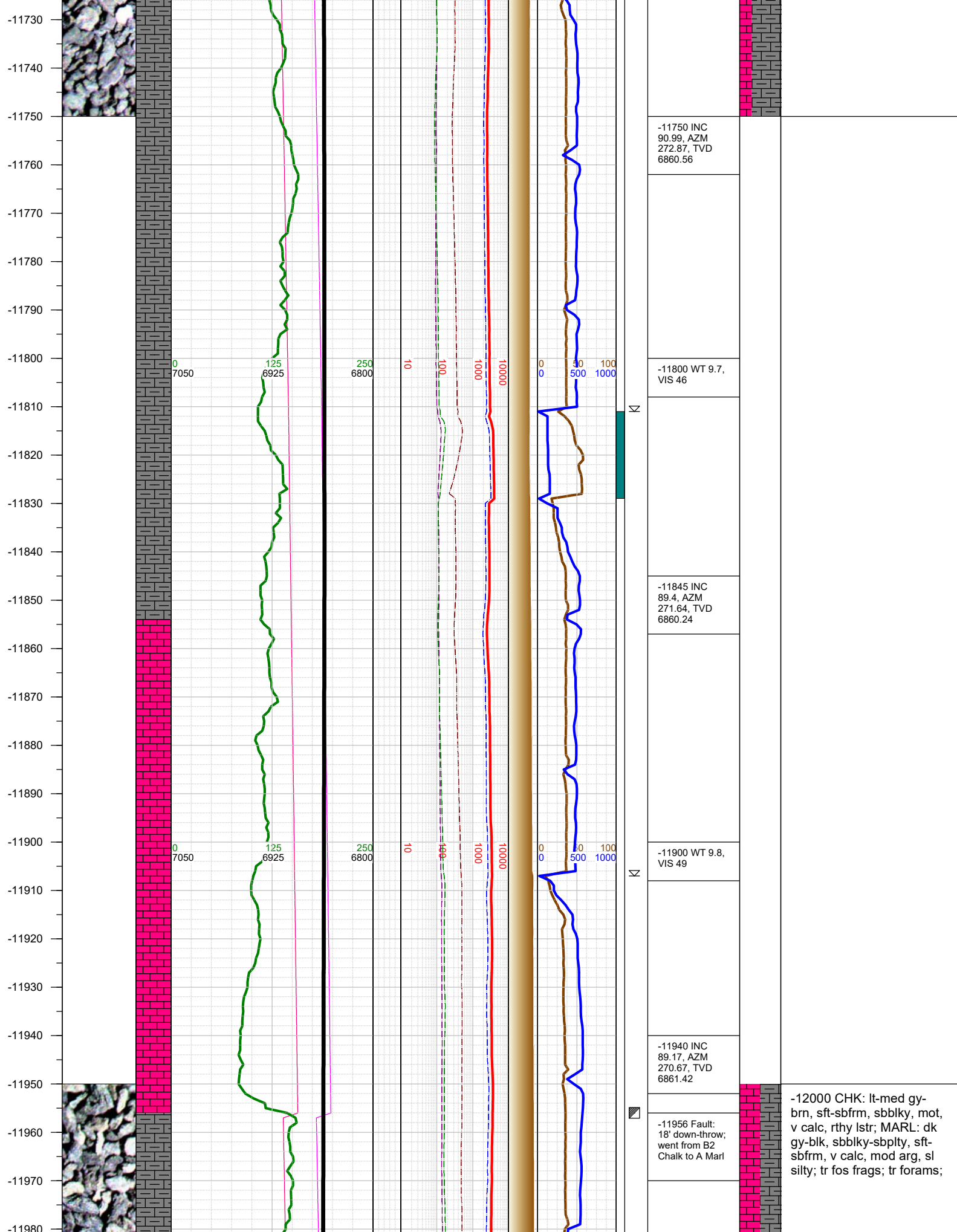
-10750 MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, v

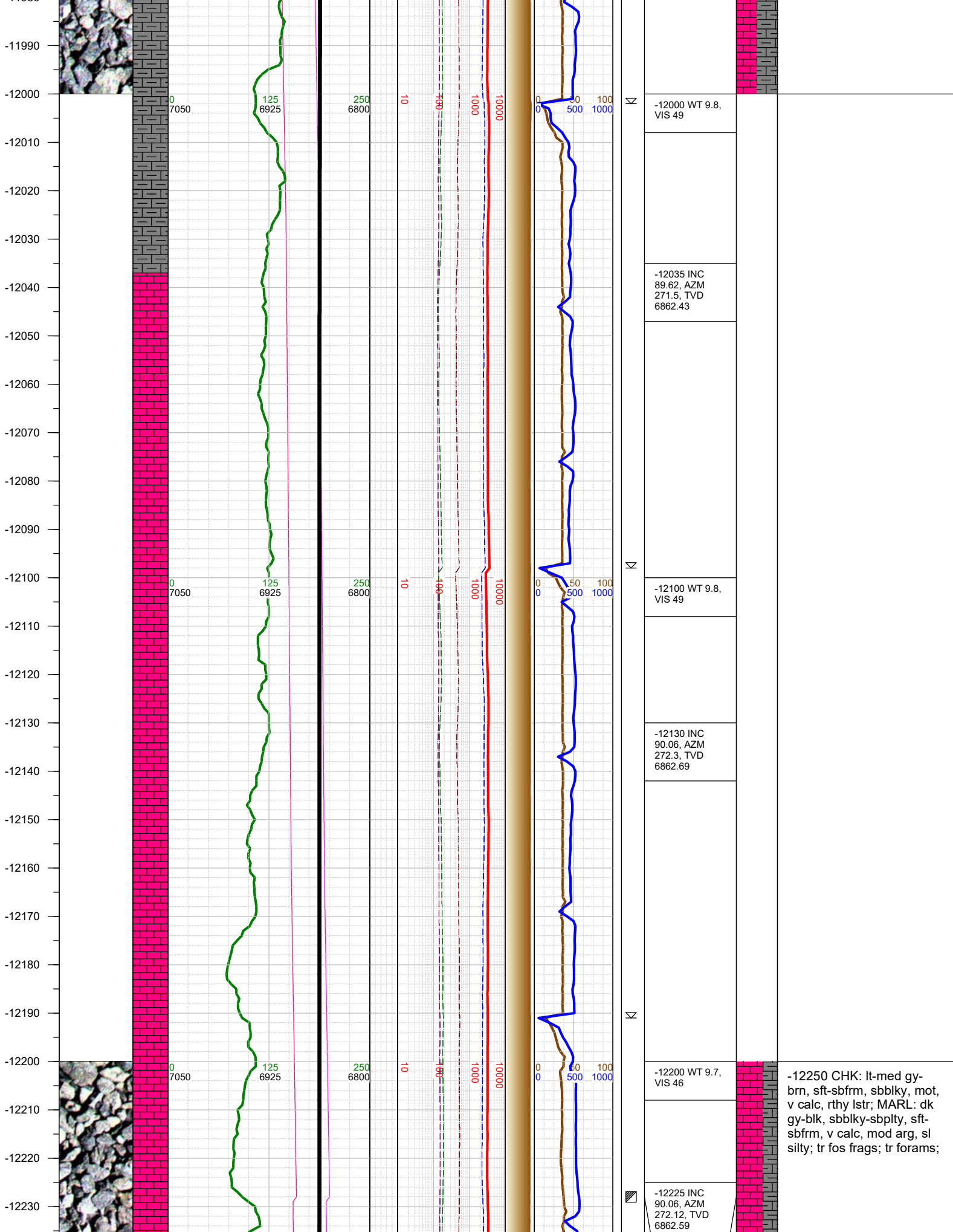




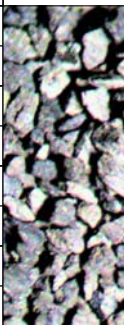
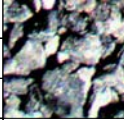








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-12228 Fault: 4'
down-throw;
stayed in B2
Chalk

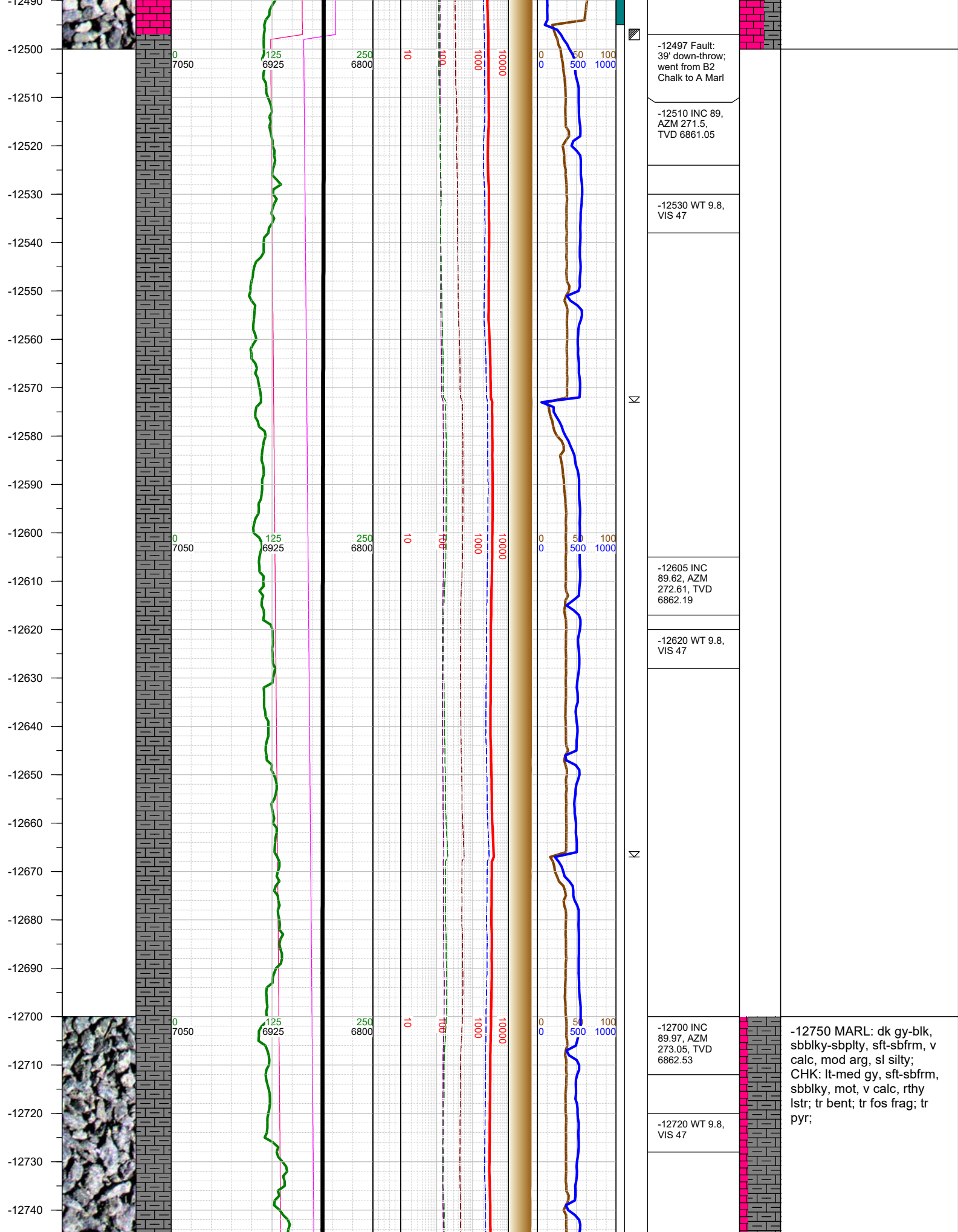
-12300 WT 9.7,
VIS 46

-12320 INC
90.46, AZM
272.74, TVD
6862.16

-12400 WT 9.7,
VIS 46

-12415 INC
90.94, AZM
272.47, TVD
6861

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



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-12796 INC
90.19, AZM 273,
TVD 6862.4

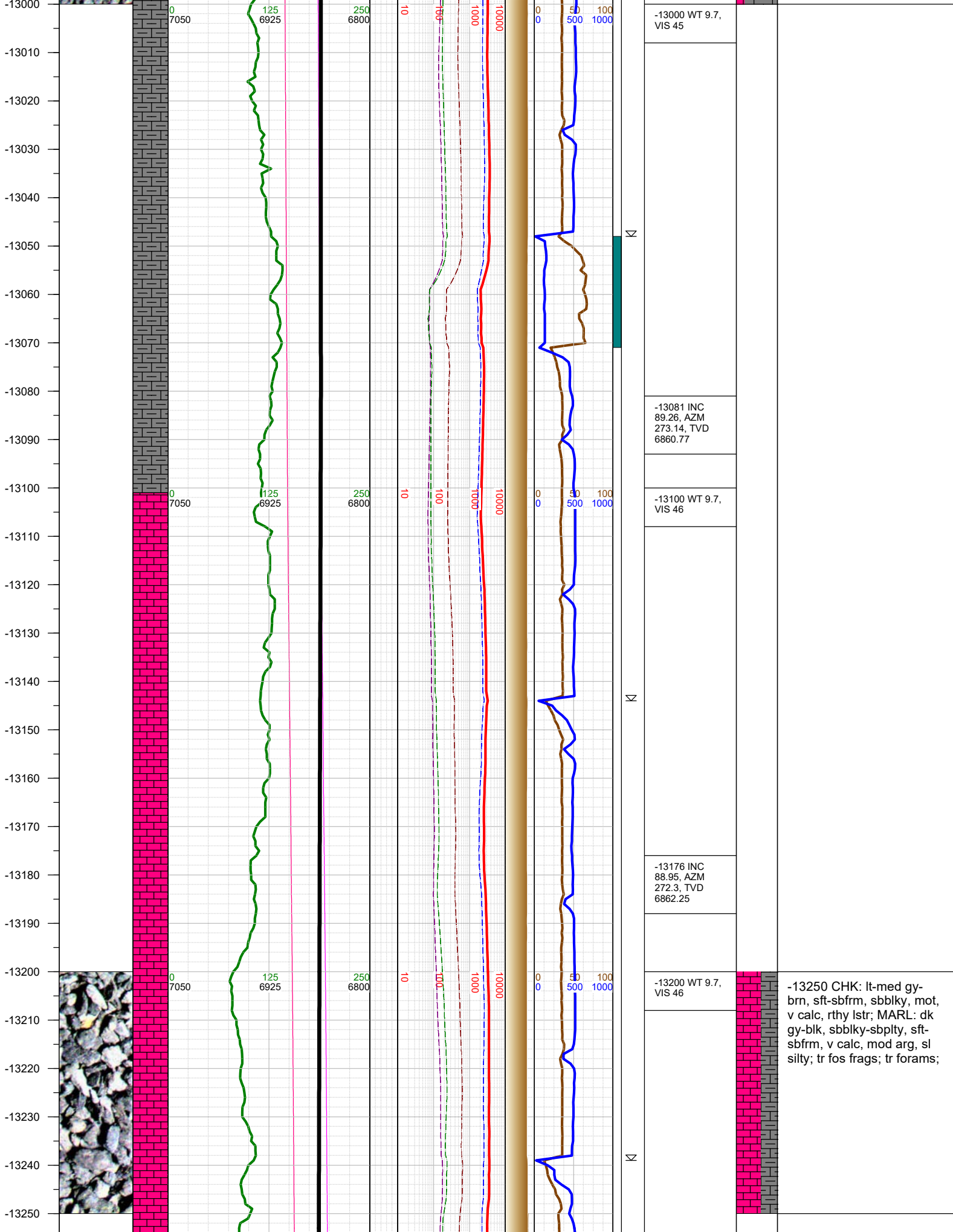
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VIS 45

-12891 INC
90.41, AZM
272.91, TVD
6861.9

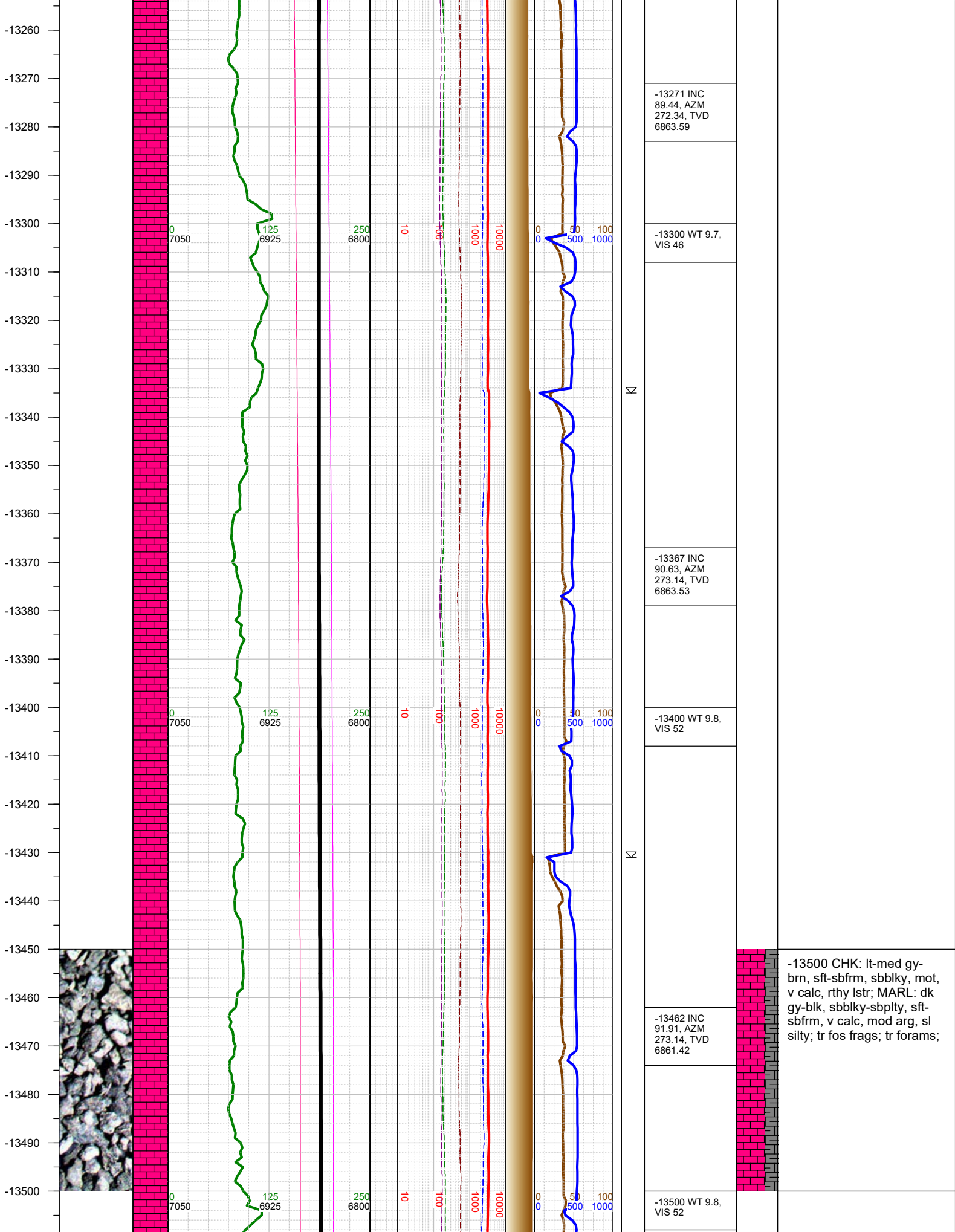
-12910 WT 9.7,
VIS 45

-12986 INC
90.85, AZM
272.08, TVD
6860.86

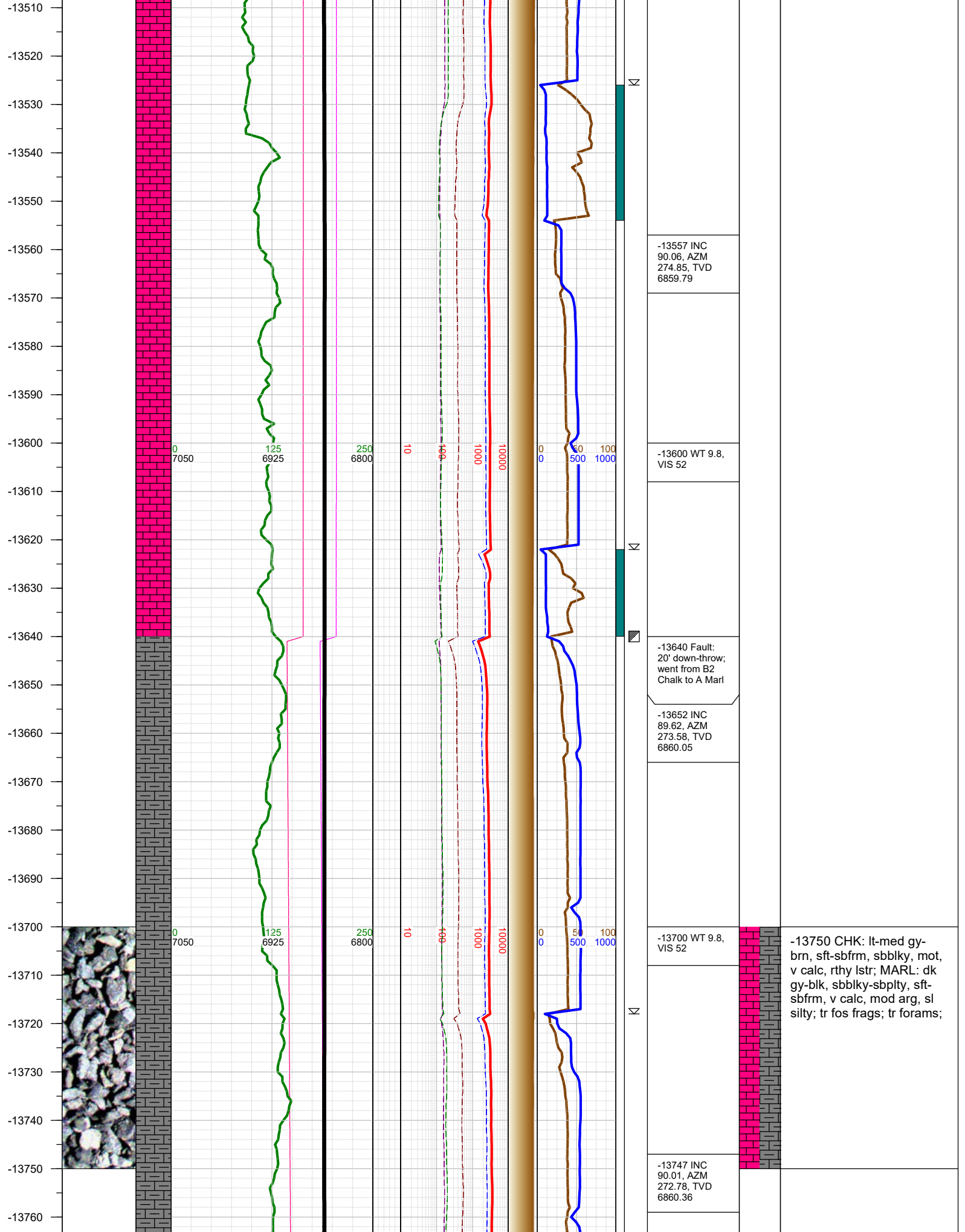
-13000 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy, sft-sbfrm,
sbbly, mot, v calc, rthy
lstr; tr bent; tr fos frag; tr
pyr;

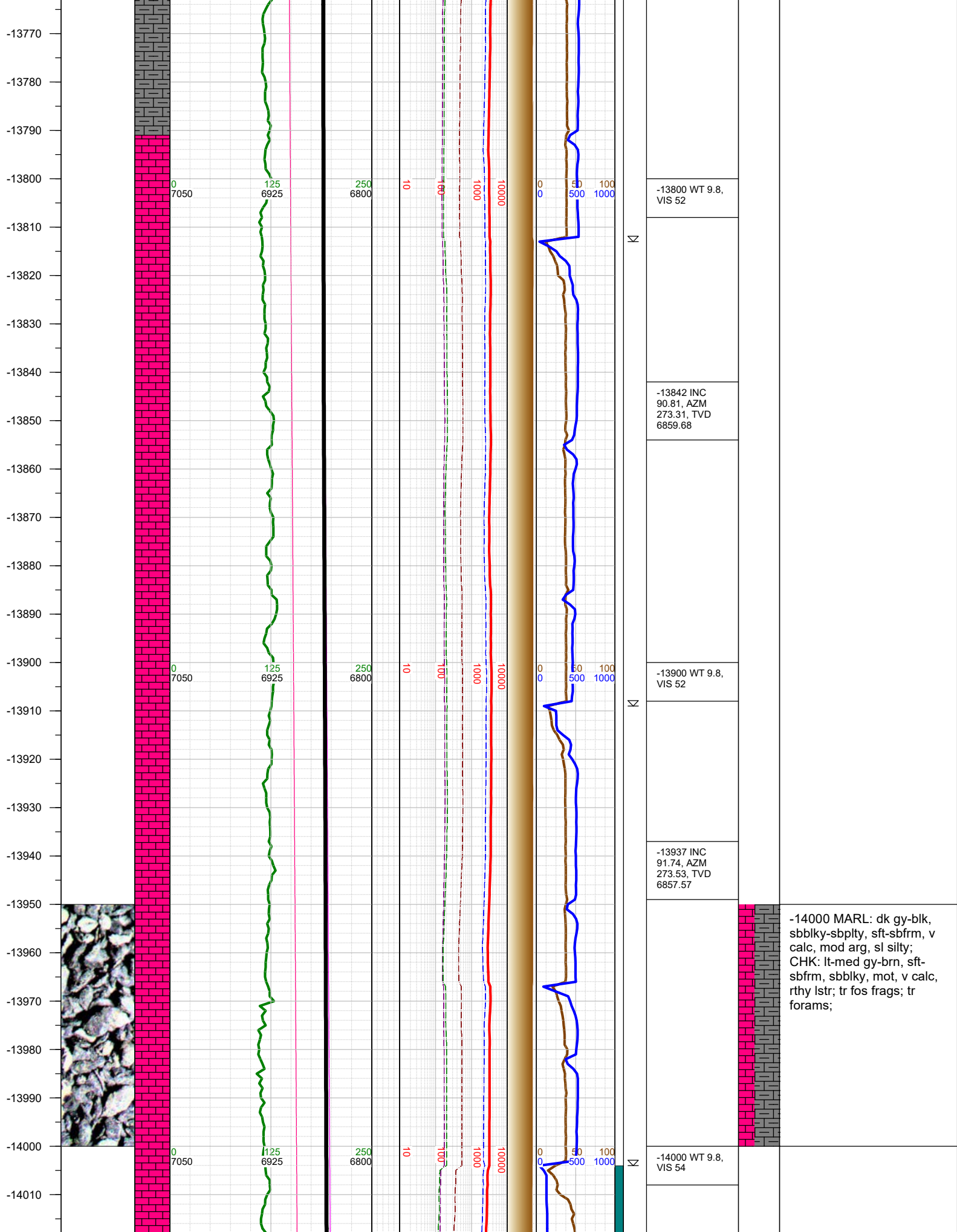


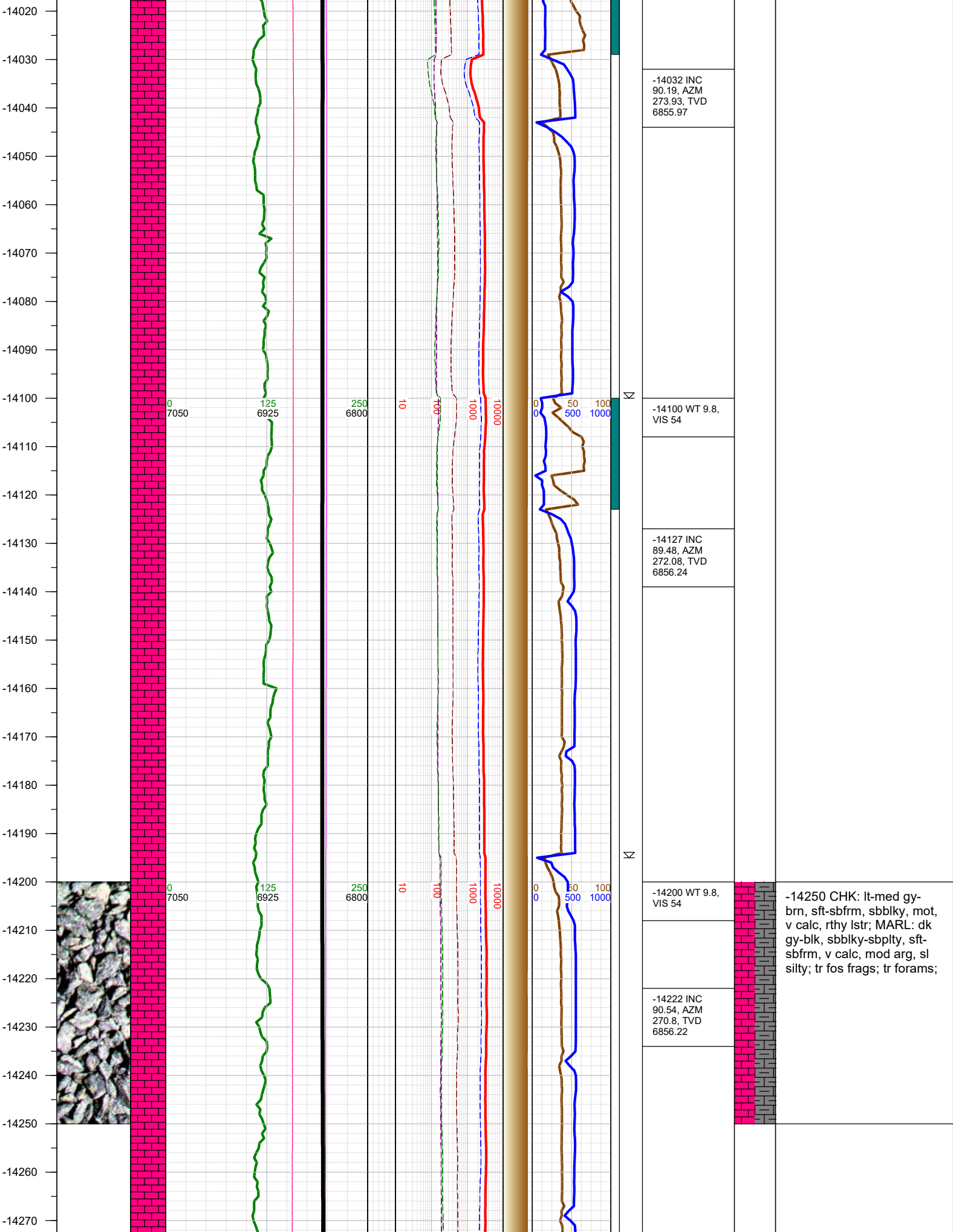
-13250 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr fos frags; tr forams;

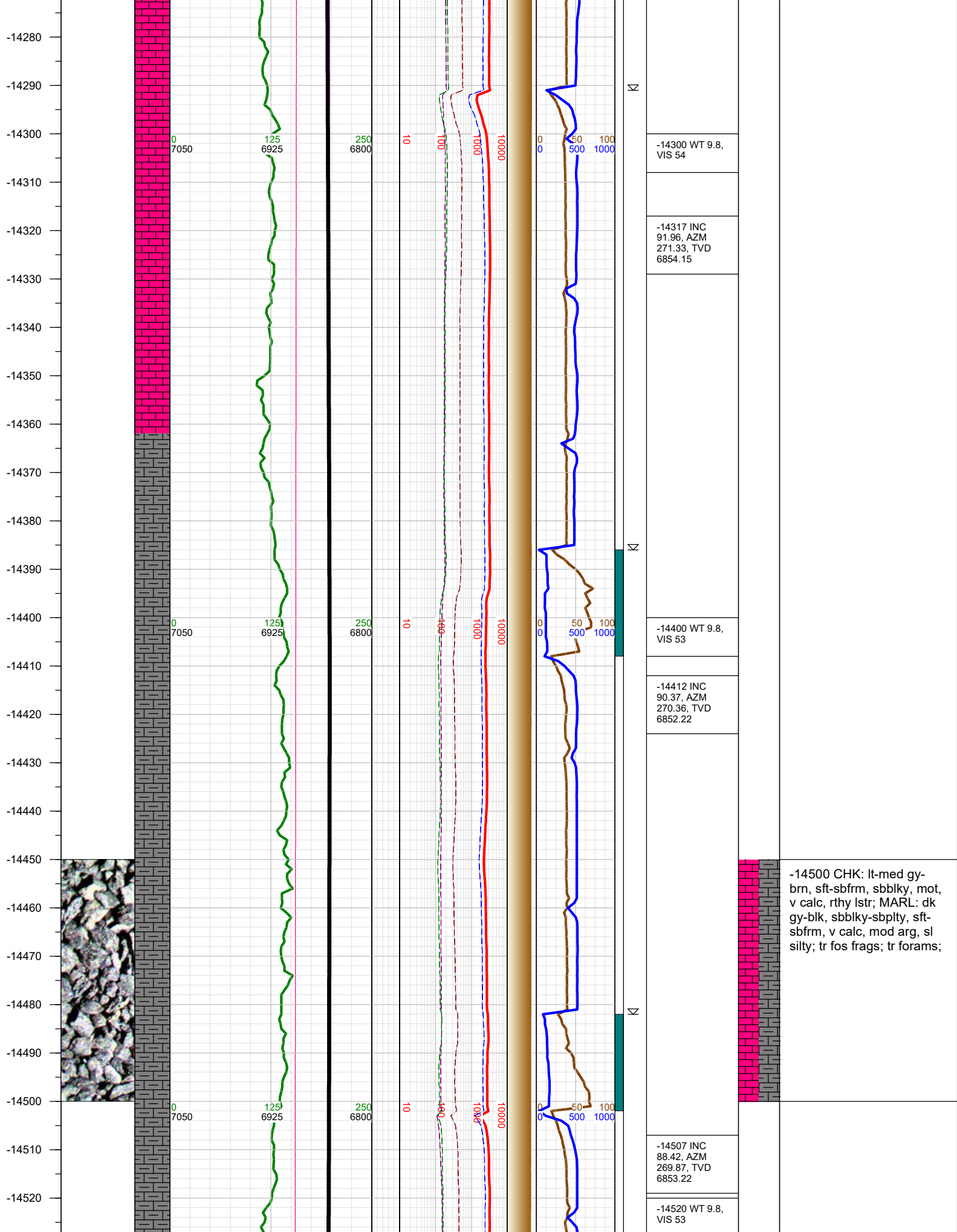


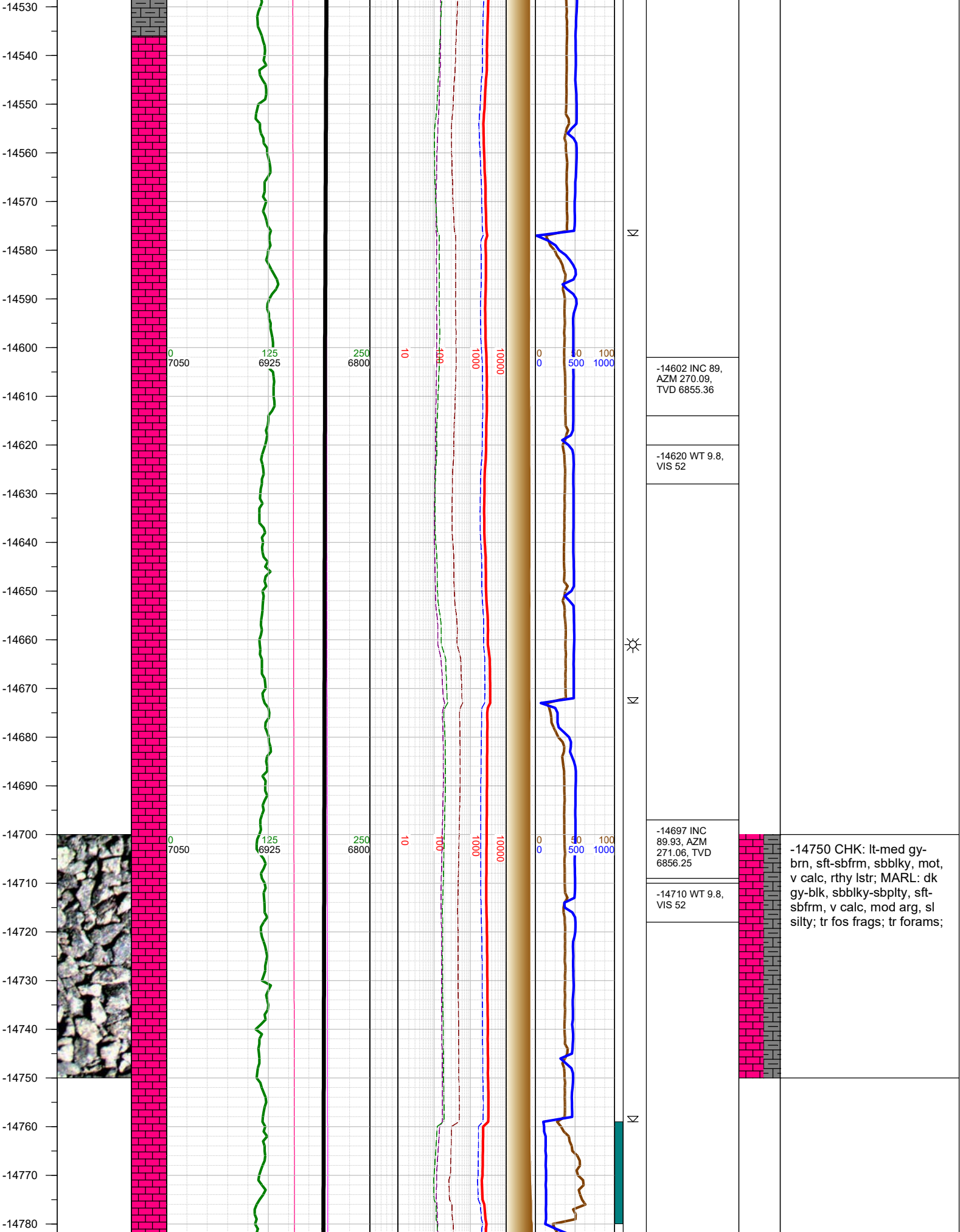
-13500 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr fos frags; tr forams;

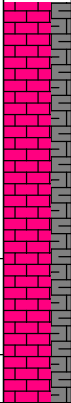
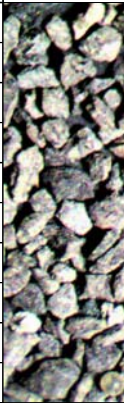
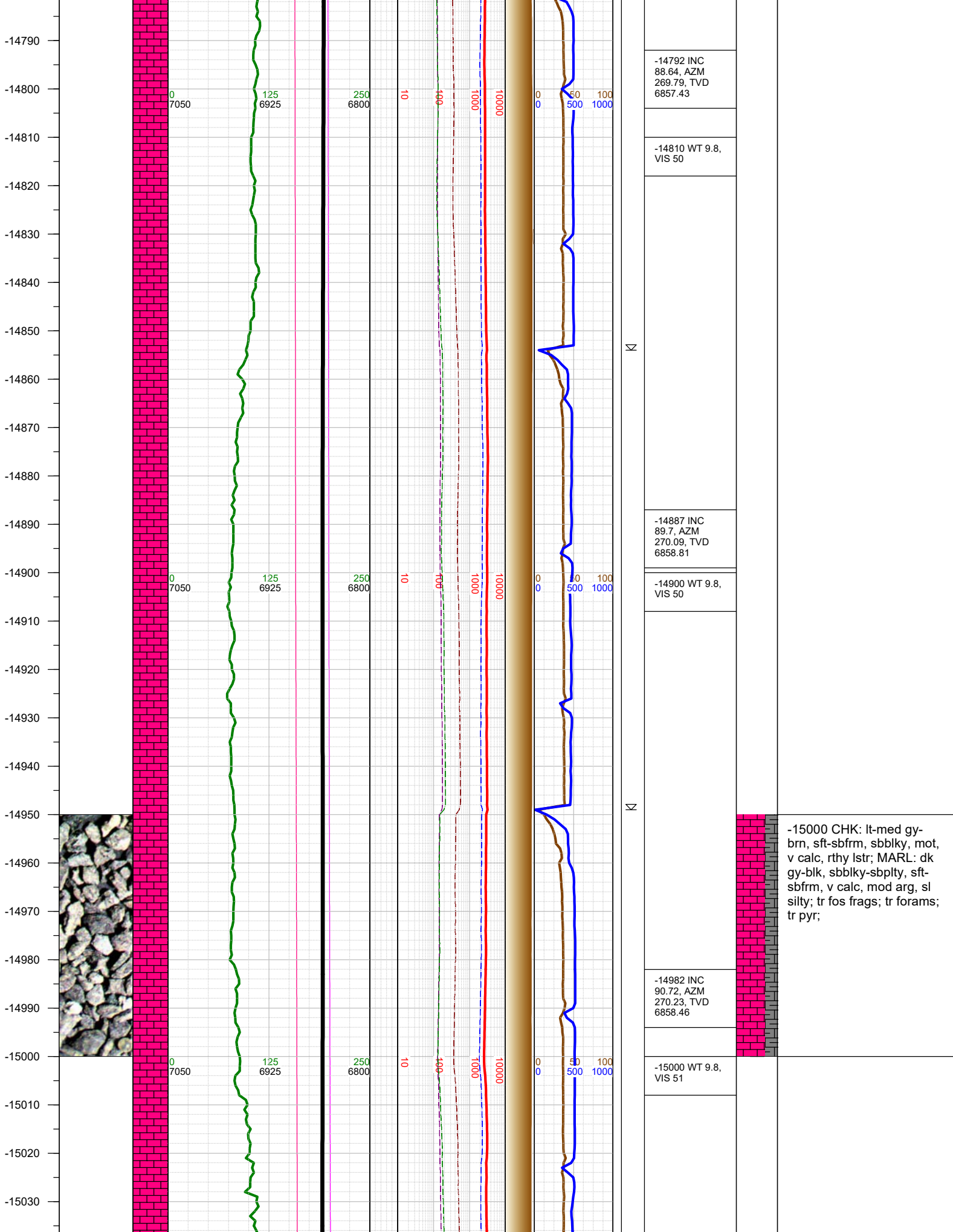




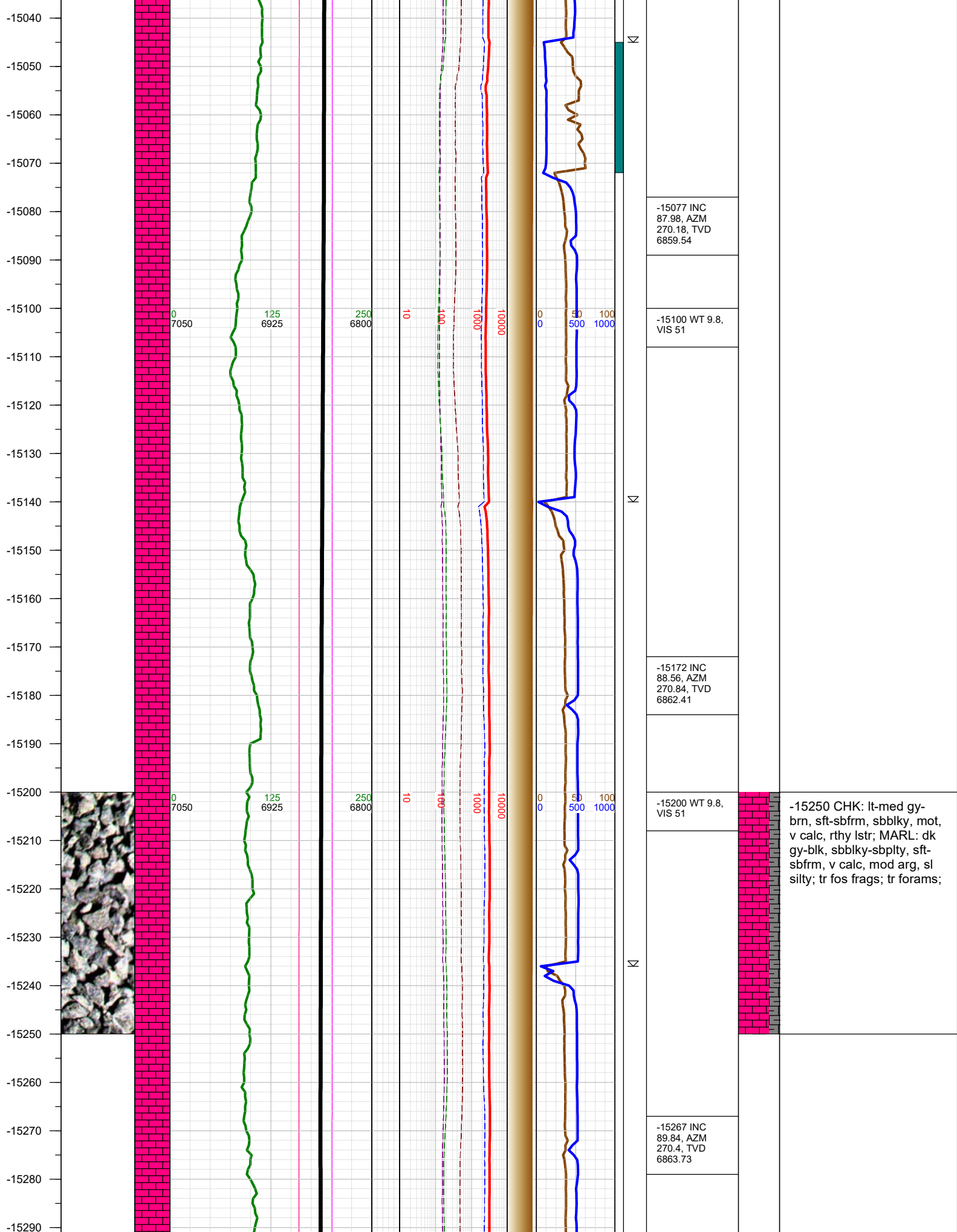


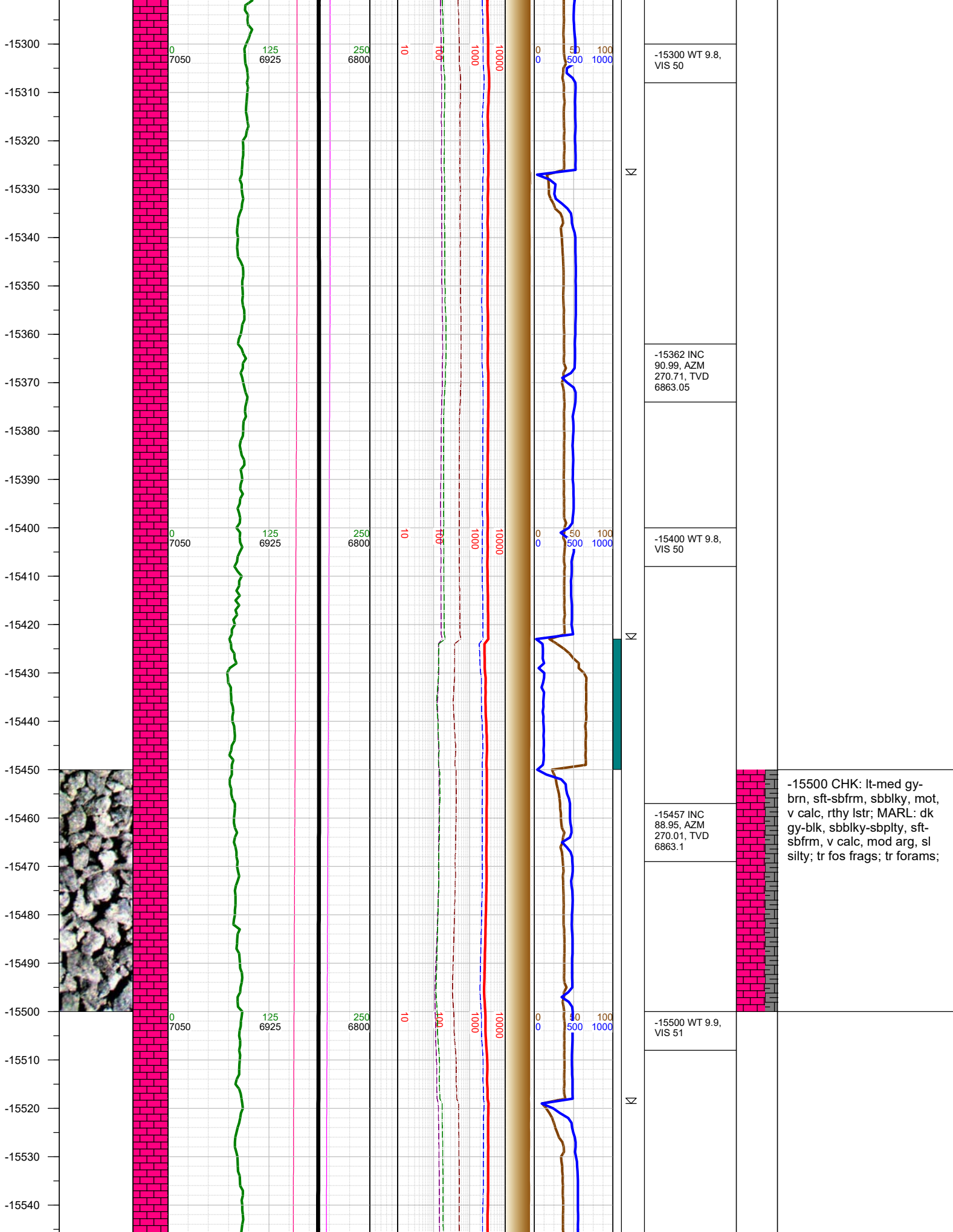






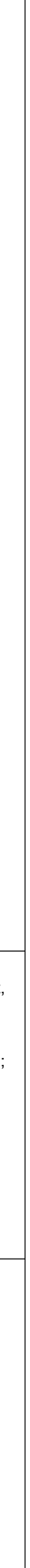
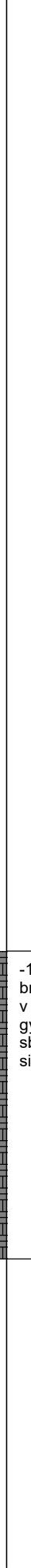
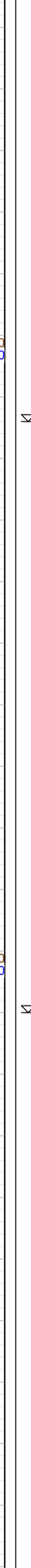
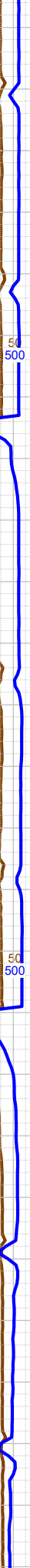
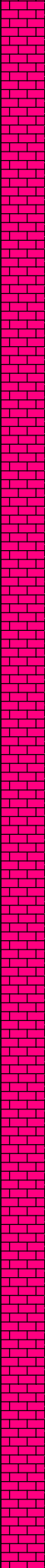
-15000 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr fos frags; tr forams; tr pyr;





-15500 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr fos frags; tr forams;

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-15770
-15780
-15790
-15800



-15552 INC
89.57, AZM
271.15, TVD
6864.32

-15600 WT 9.9,
VIS 51

-15647 INC
90.32, AZM
270.14, TVD
6864.41

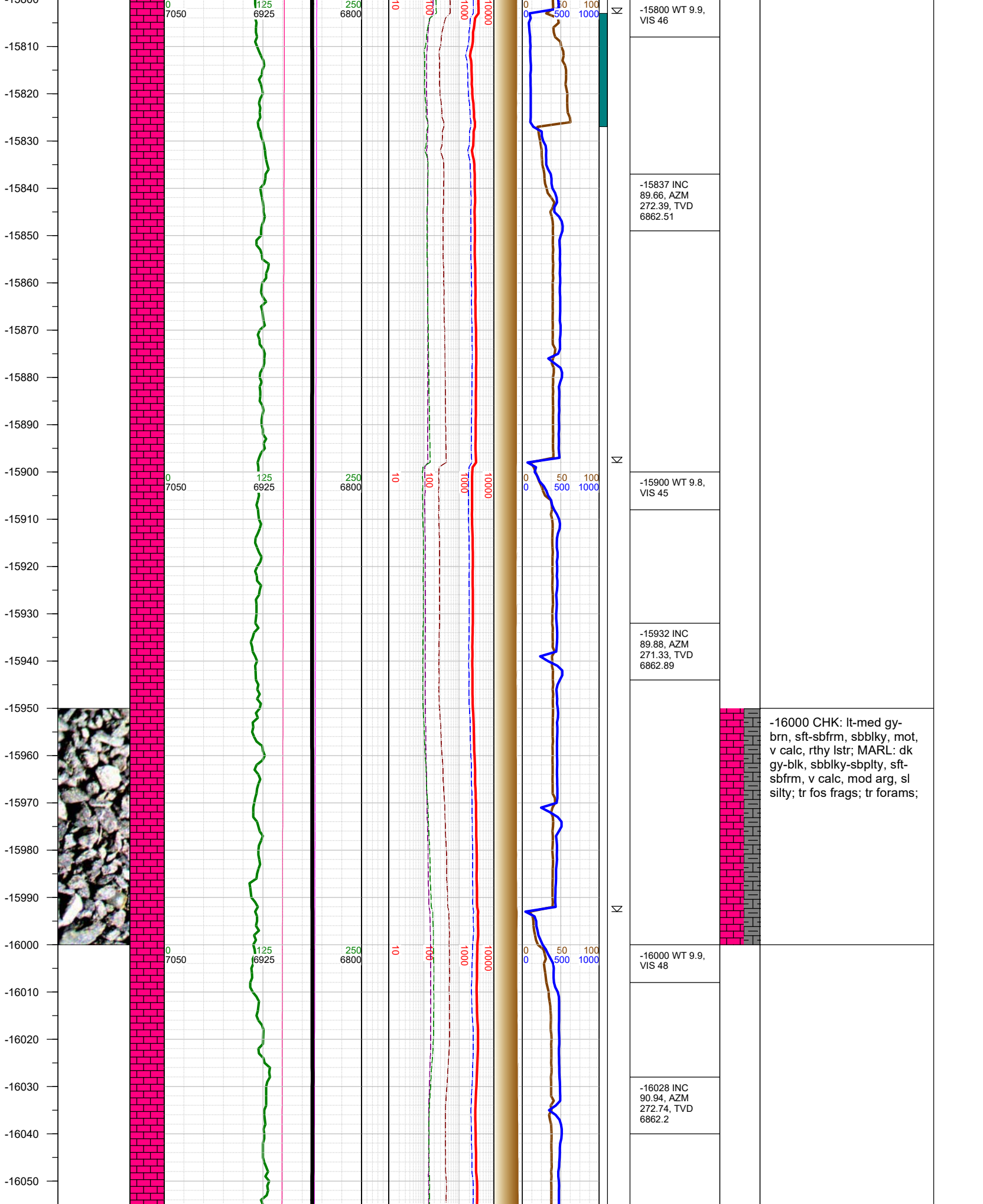
-15700 WT 9.9,
VIS 51

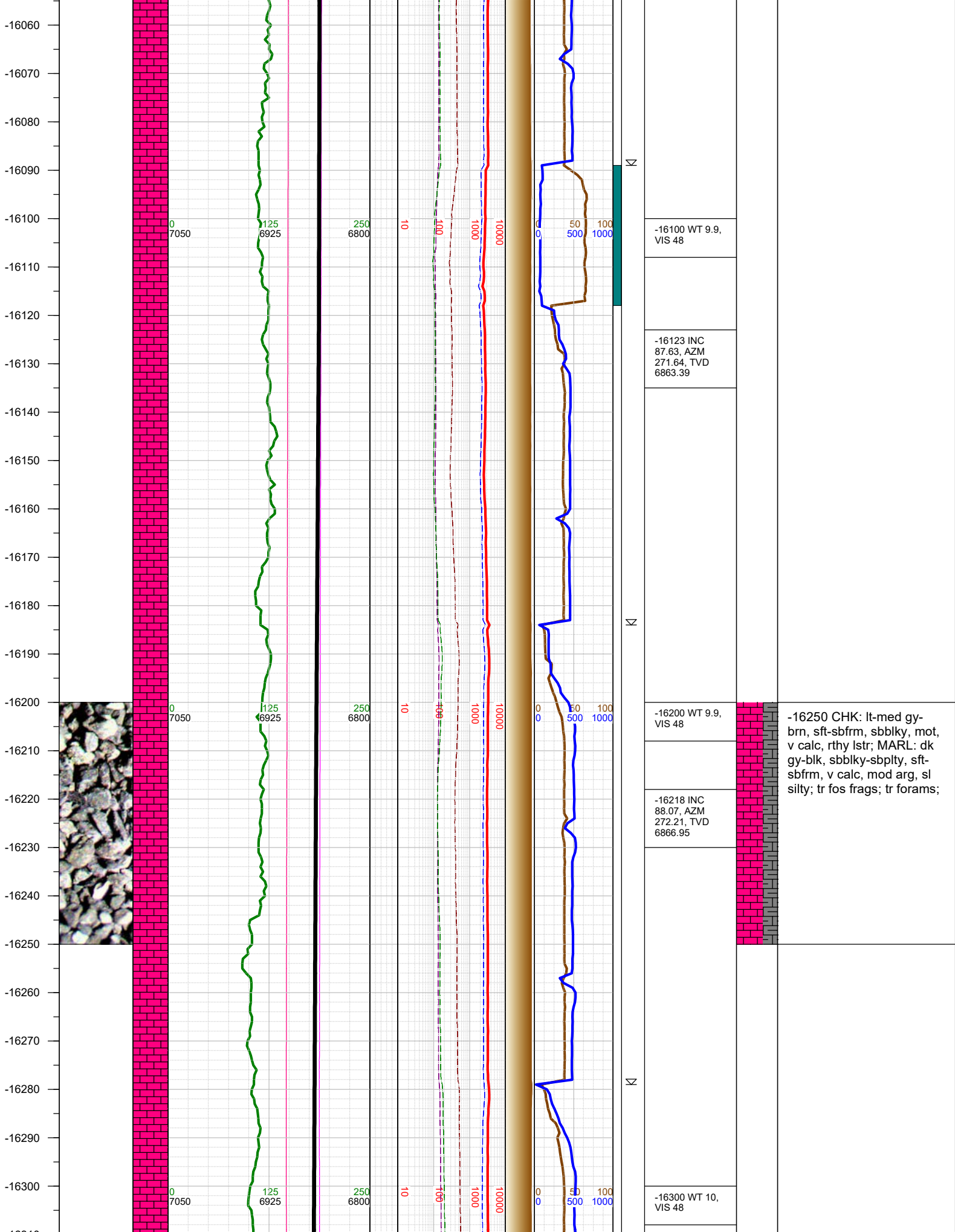
-15742 INC
91.16, AZM
270.76, TVD
6863.19

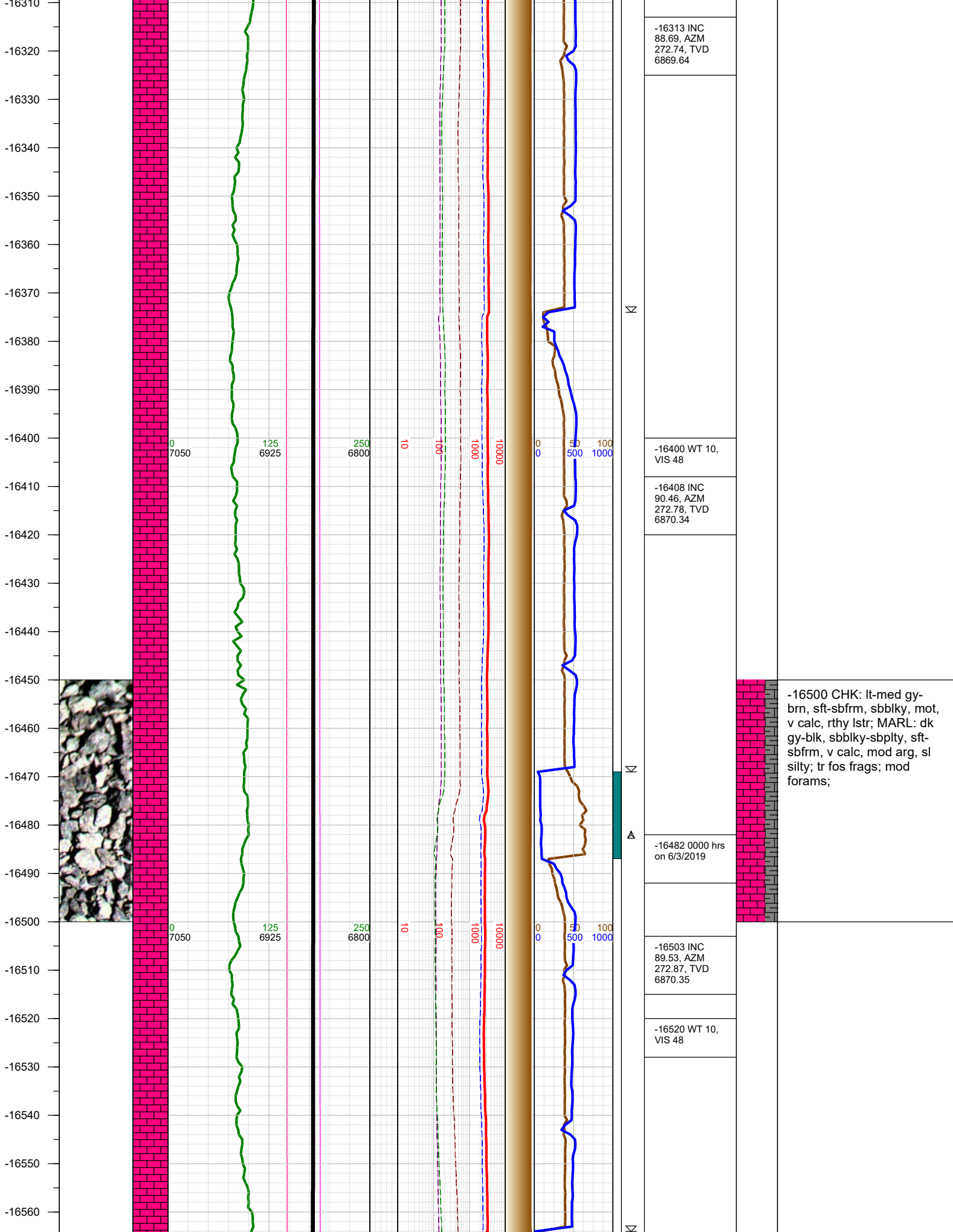
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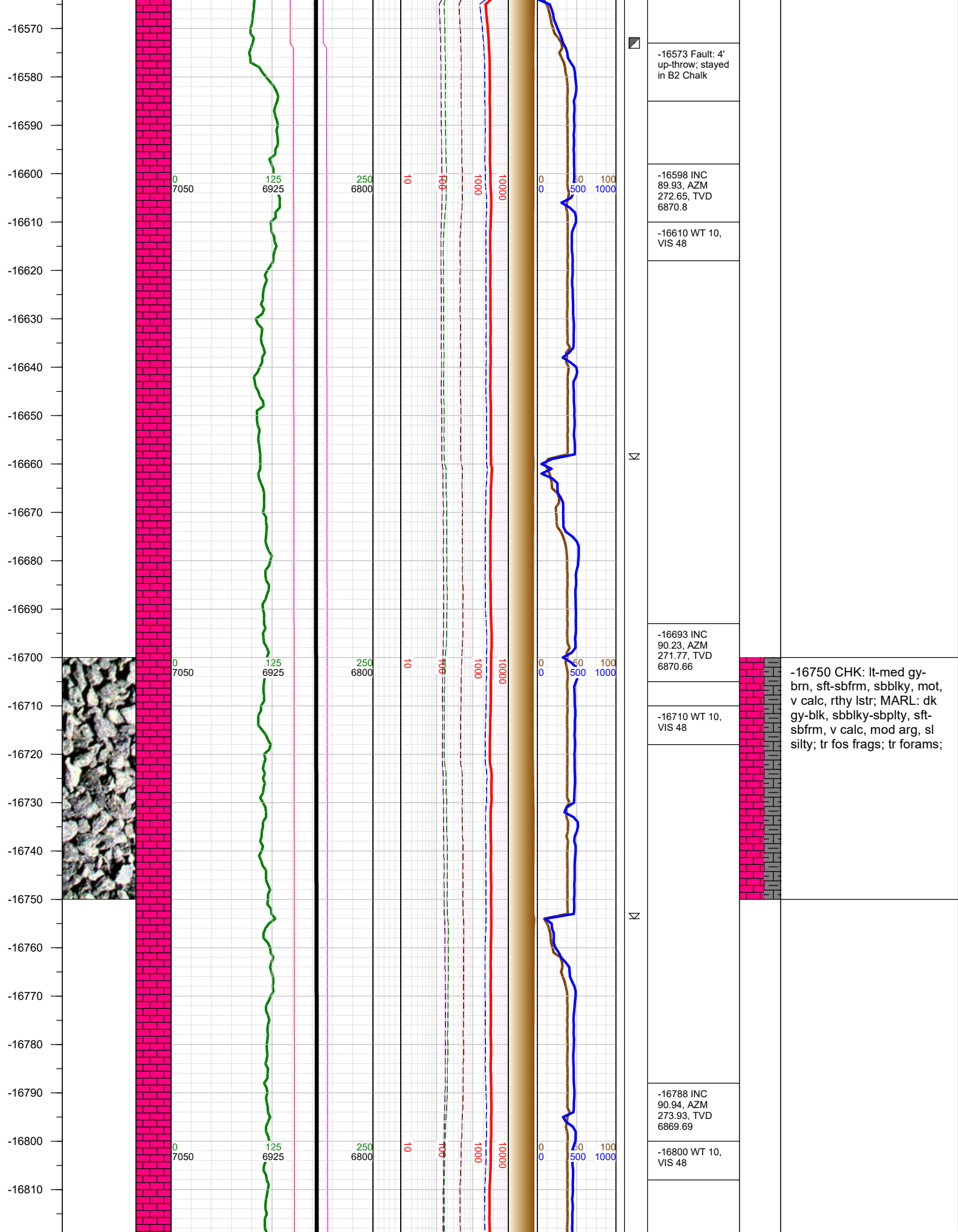
Σ

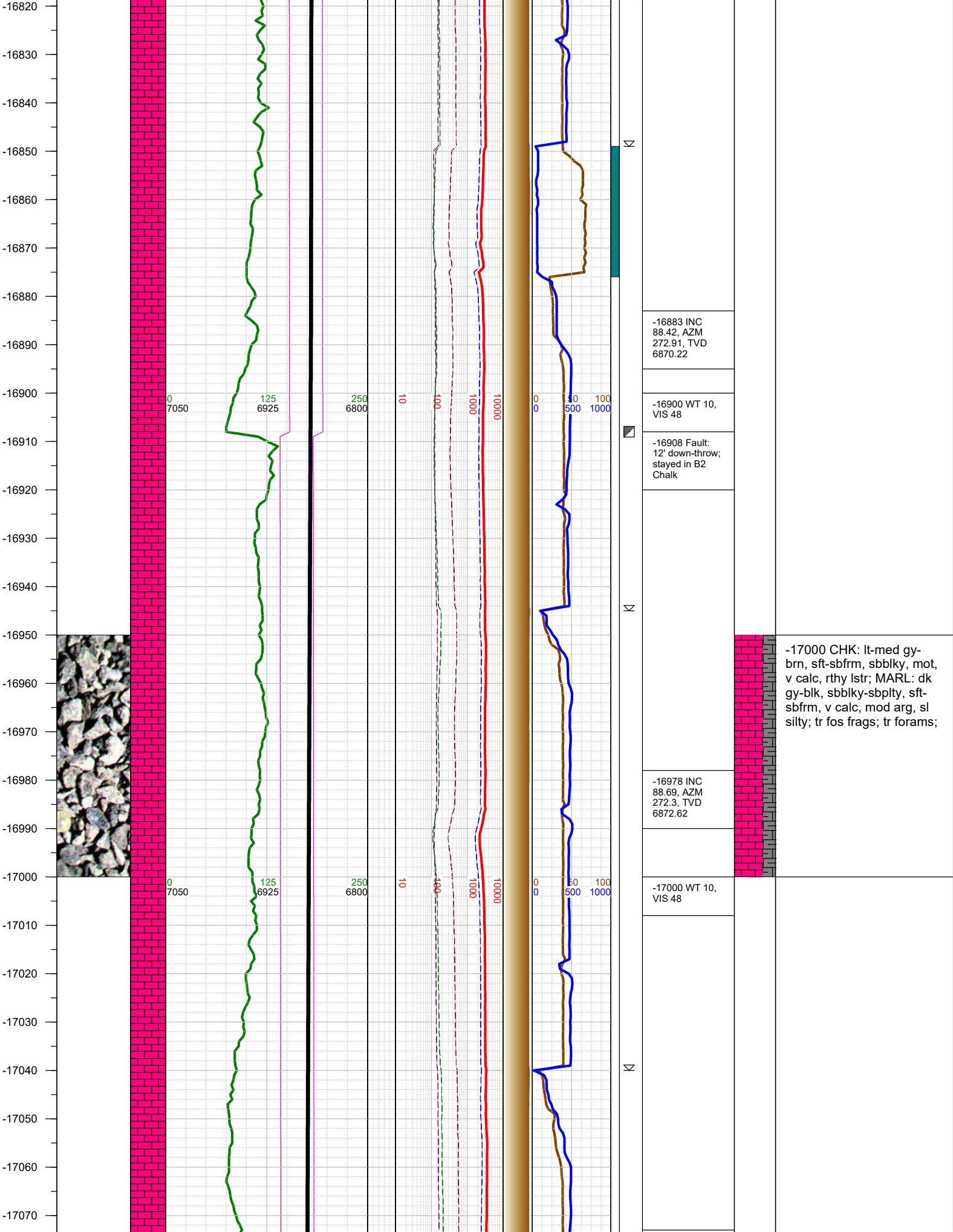
-15750 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, v calc, mod arg, sl
silty; tr fos frags; tr forams;

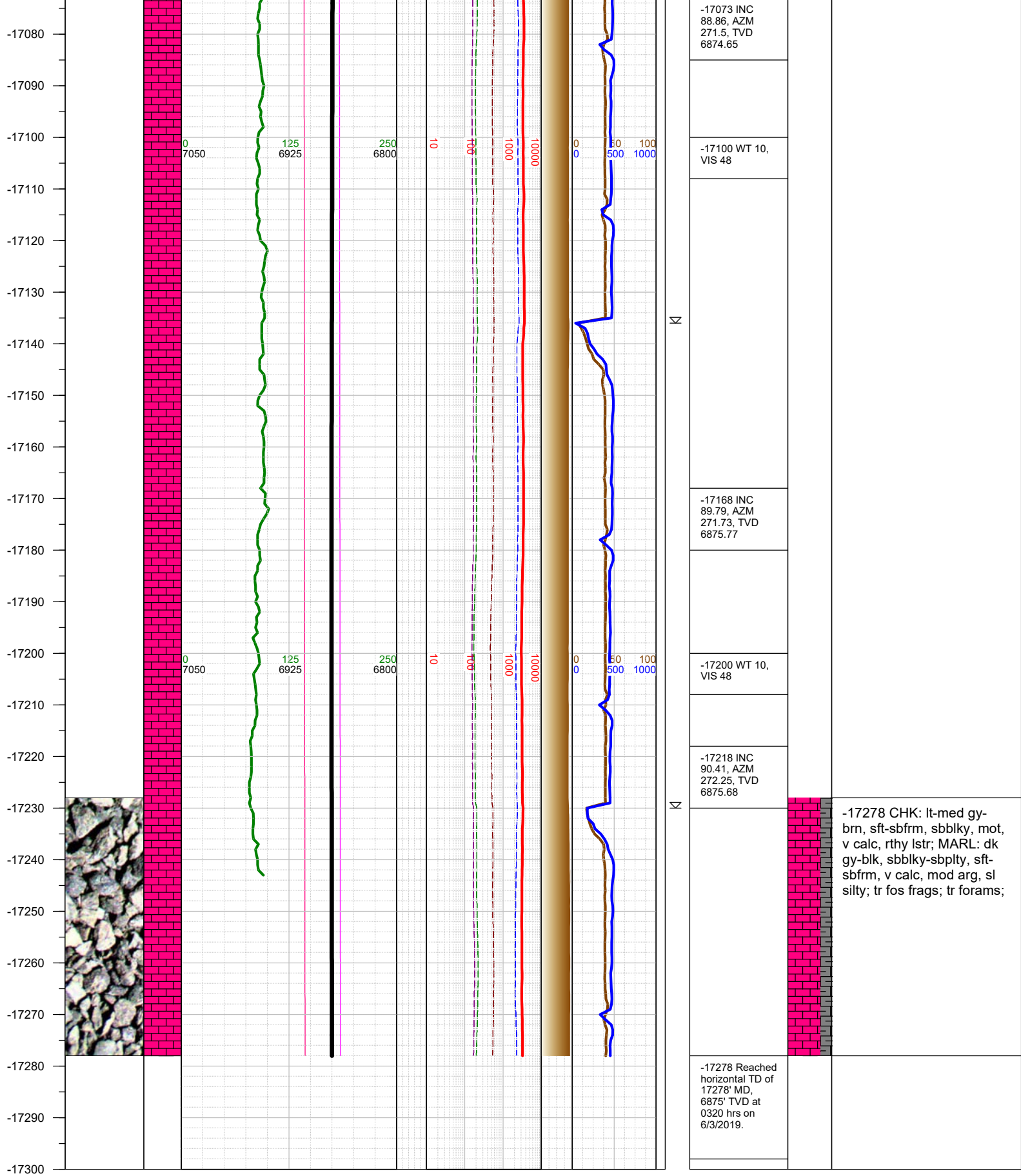












TOTAL DEPTH = 17278'

Thank you for using Earth Science Agency