

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **TC Moiser Hill 3-9-11**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 341

API #: 05-123-43742

LAT/LONG: 40.41464, -104.79869

SURFACE HOLE: SENE S8-T5N-R66W, 2462' FNL, 1195' FEL

BOTTOM HOLE: S11-T5N-R66W, 602' FNL, 2479' FWL

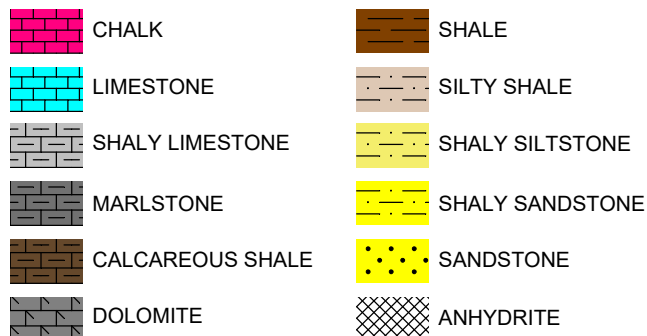


Earth Science Agency, LLC

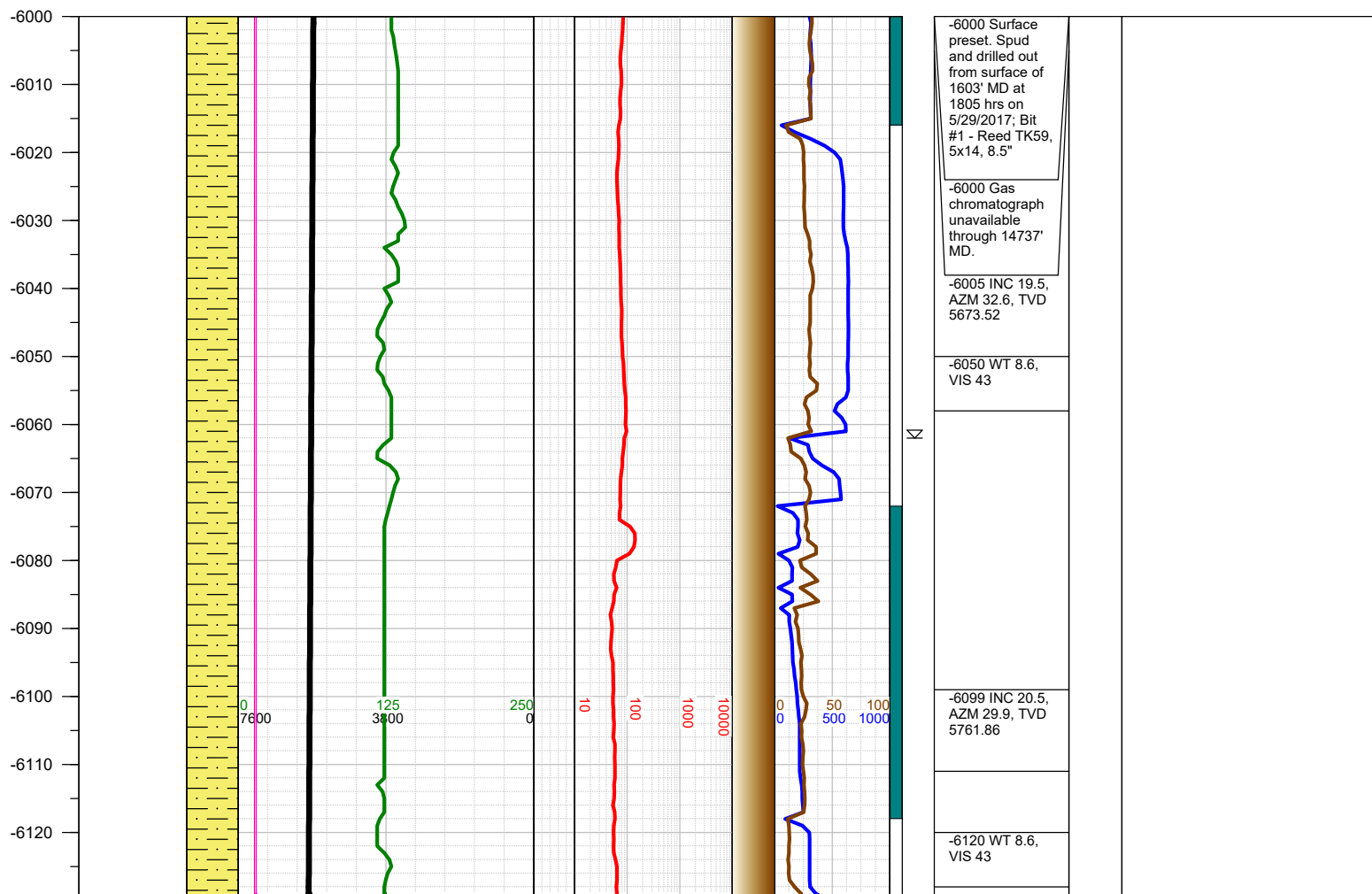
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4787'
KELLY BUSHING: 4812'
DRILLING FLUID: OBM
TVD VS. MD: 7090' / 20444'
SPUD DATE: May 29, 2017
TD DATE: June 4, 2017

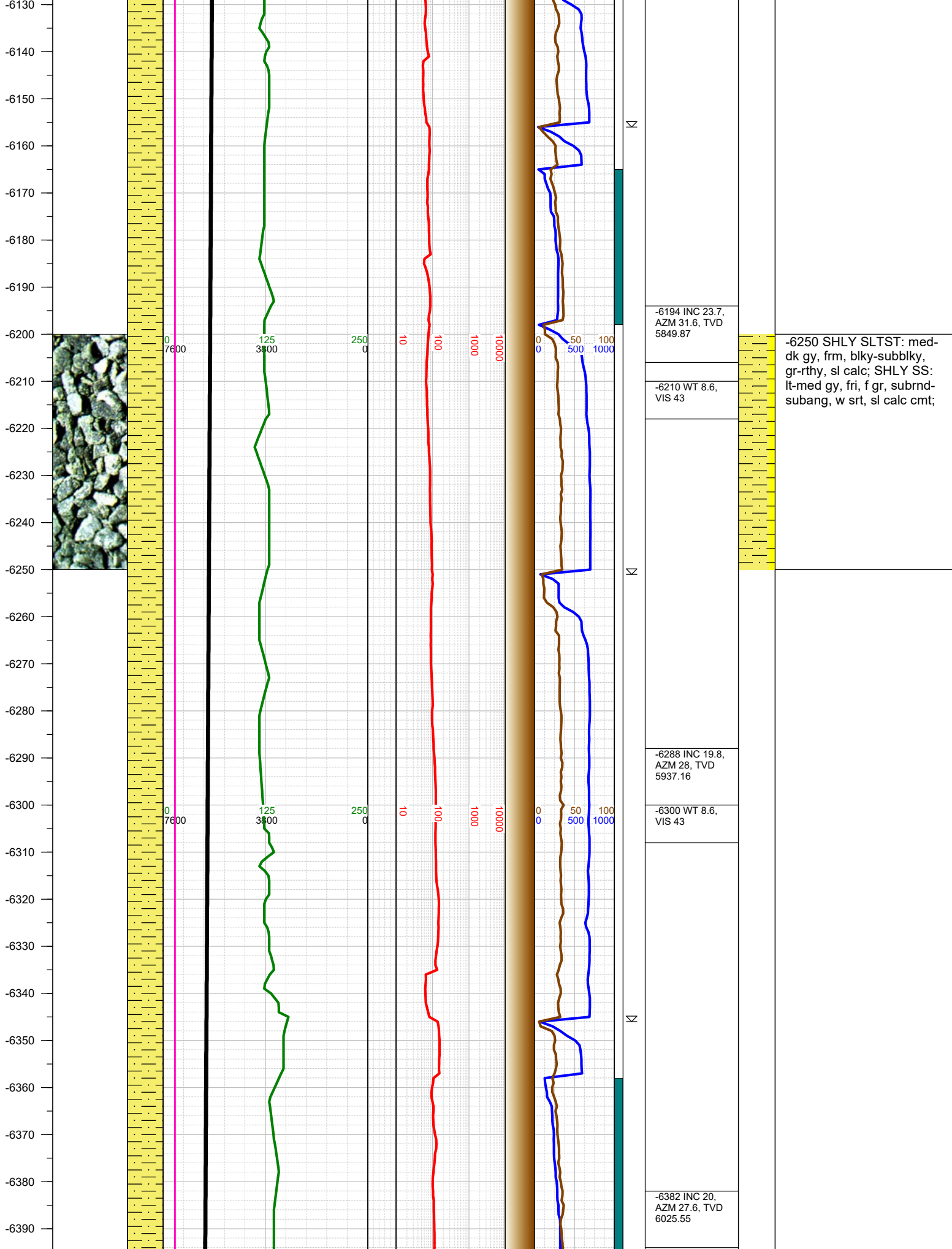
DEPTHS LOGGED: 6000' - 20444'
DATES LOGGED: May 30, 2017 - June 4, 2017
GEOLOGISTS: Blake Eatherton, Dan Jacobs
SCALE: 5" = 100'

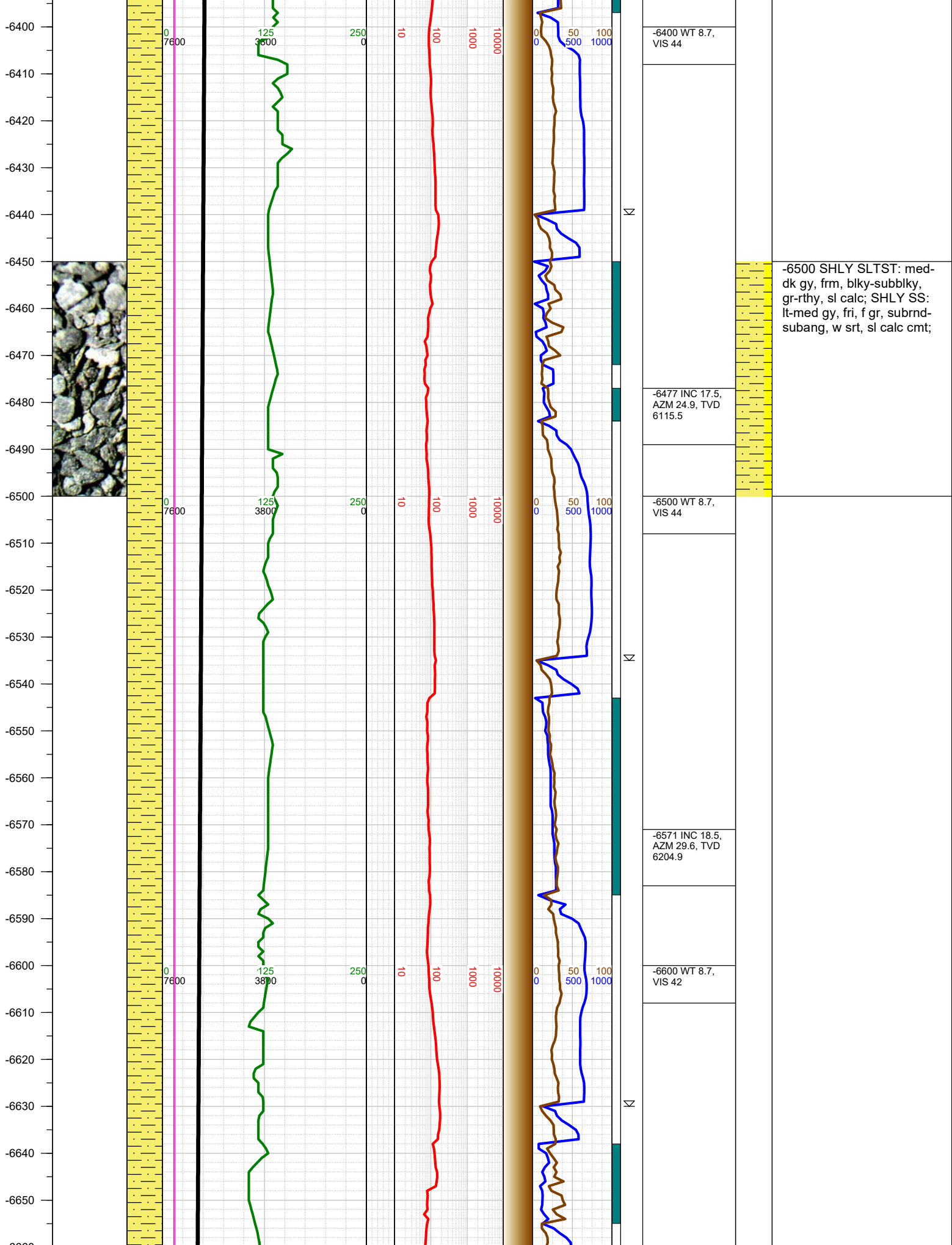
LEGEND

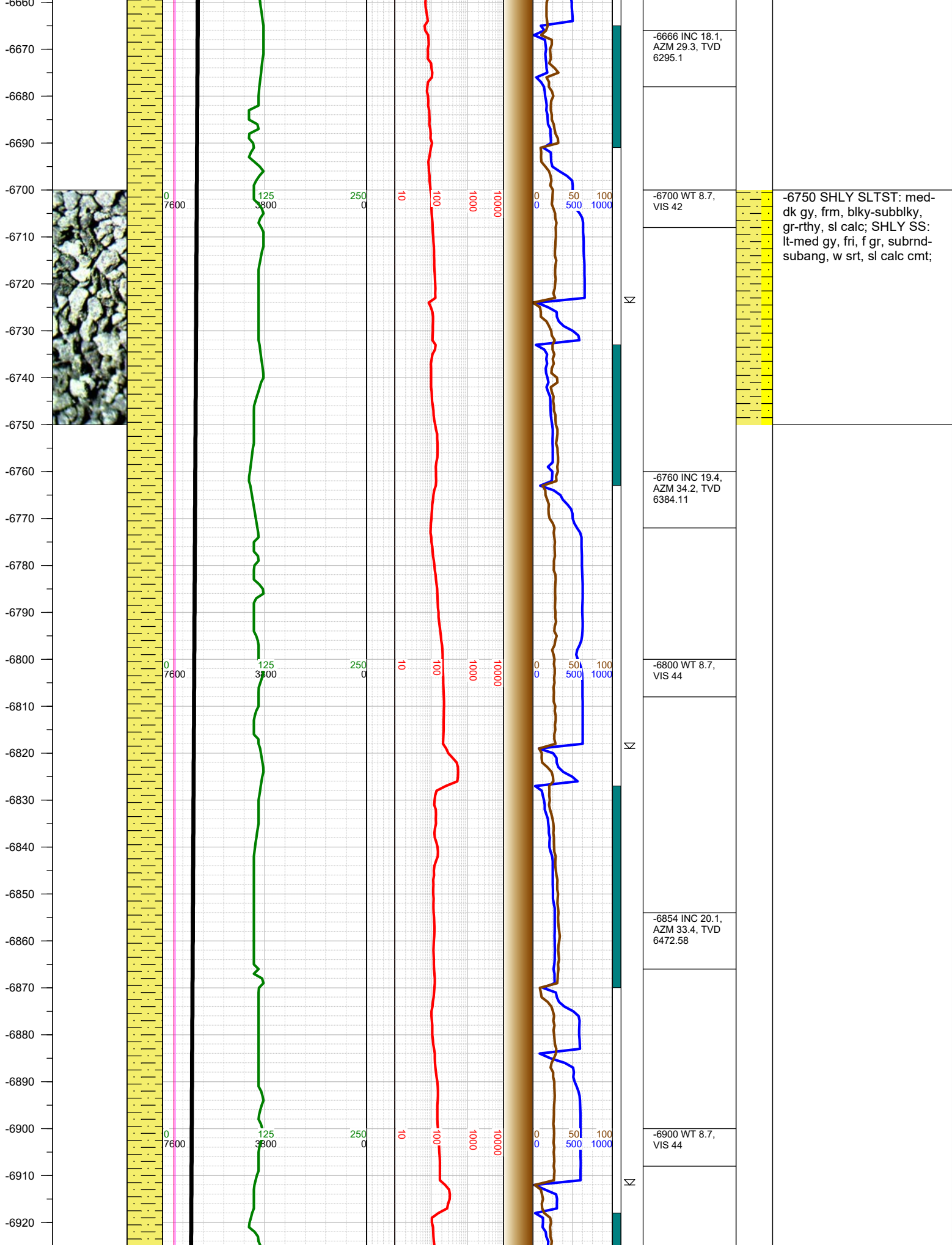


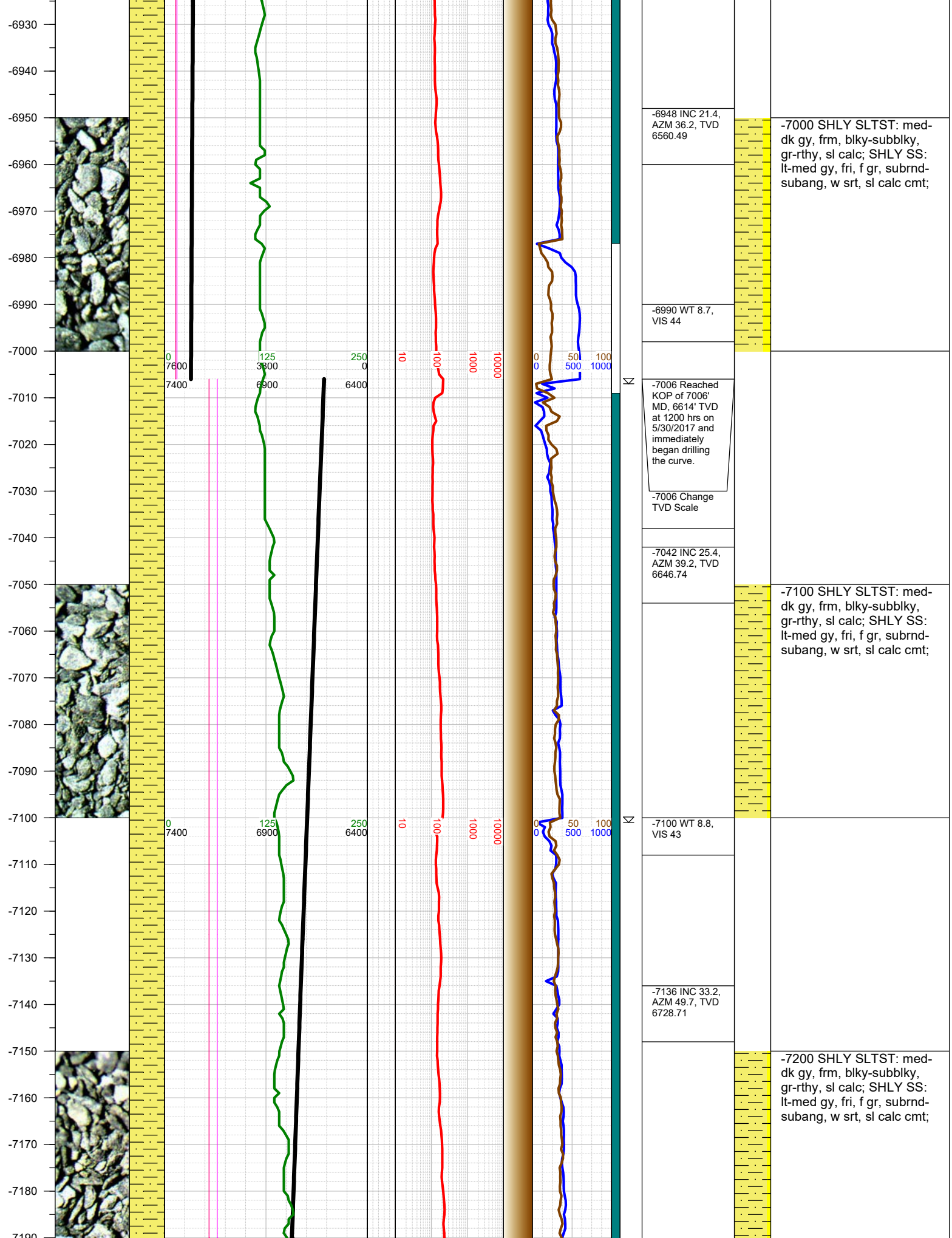
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

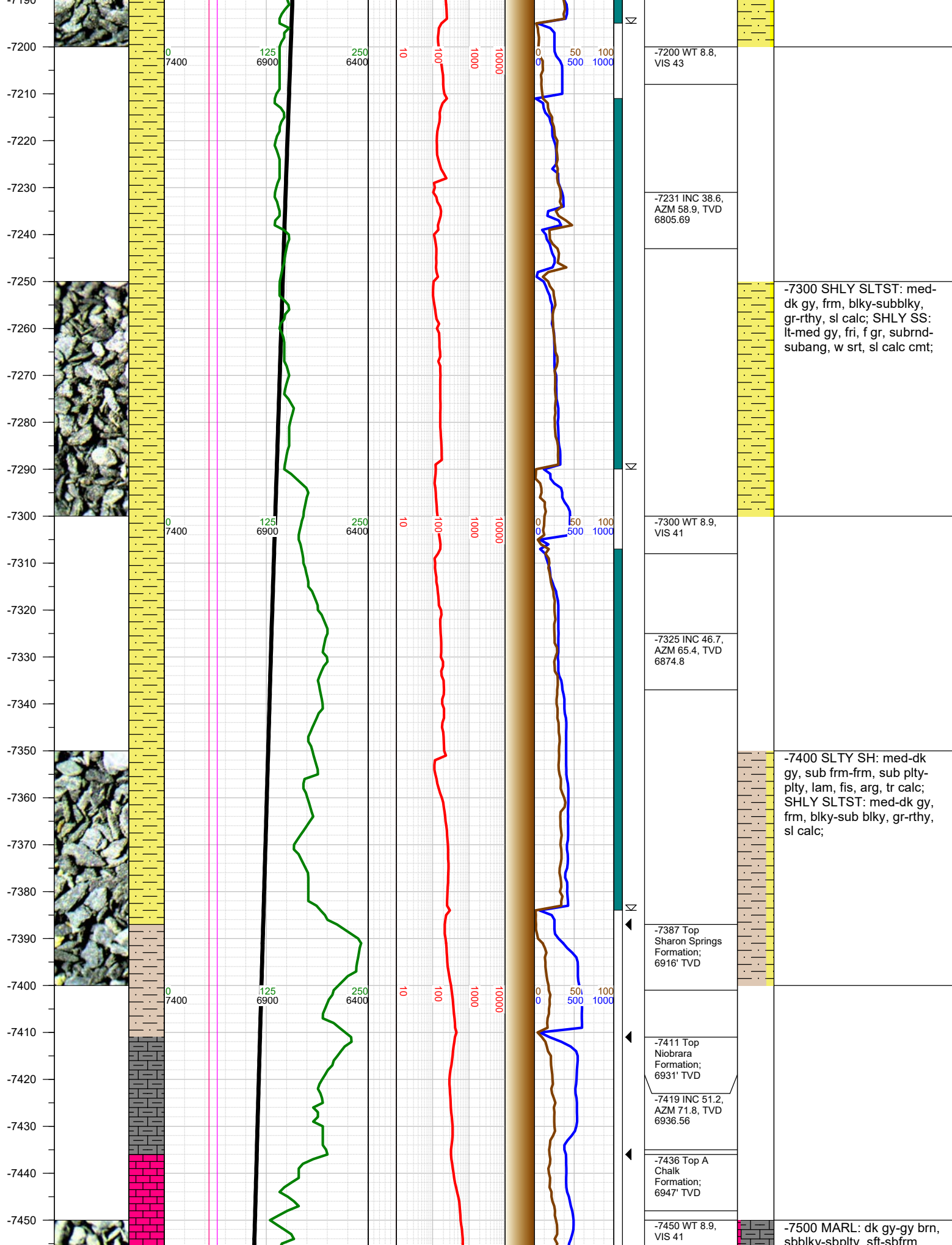


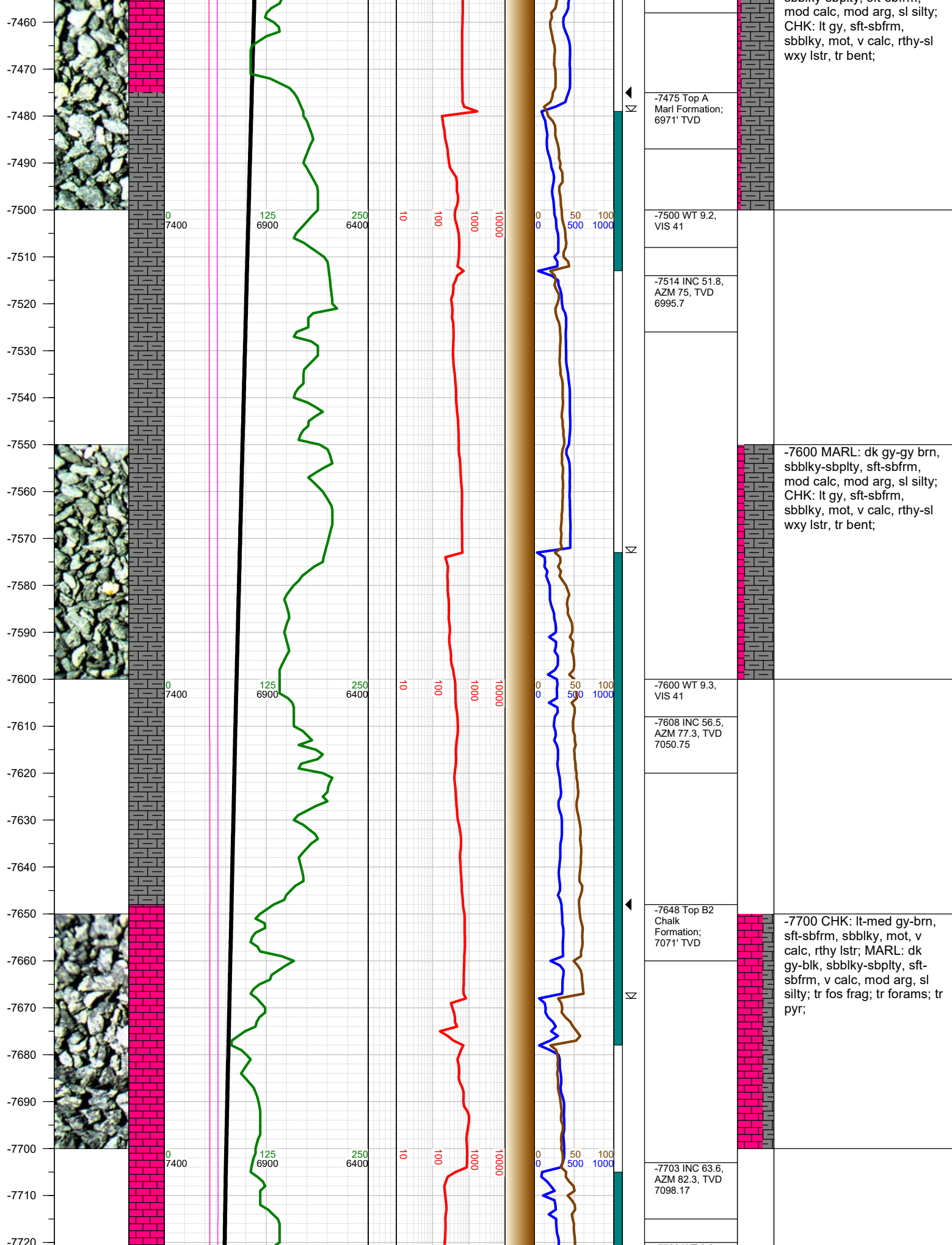


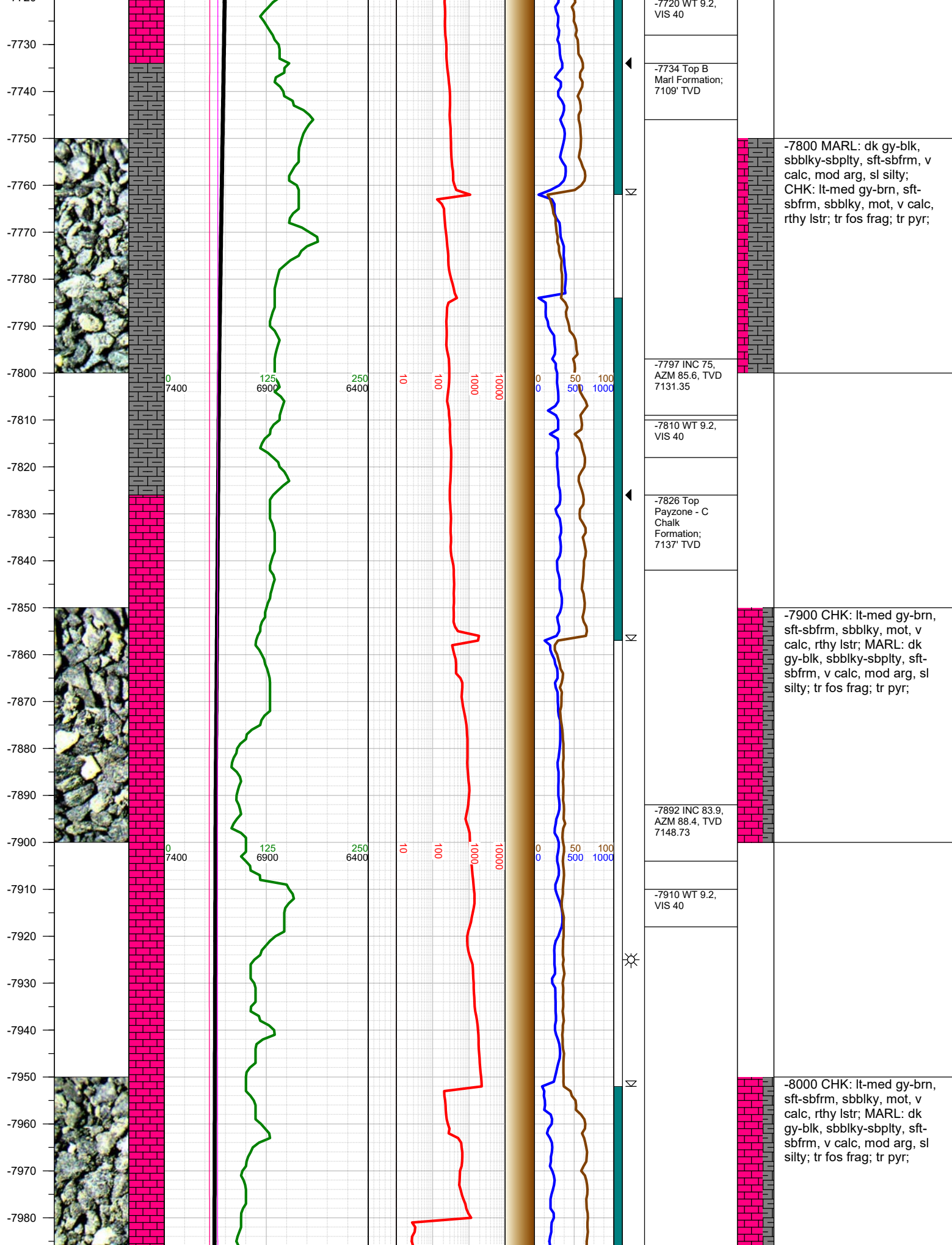


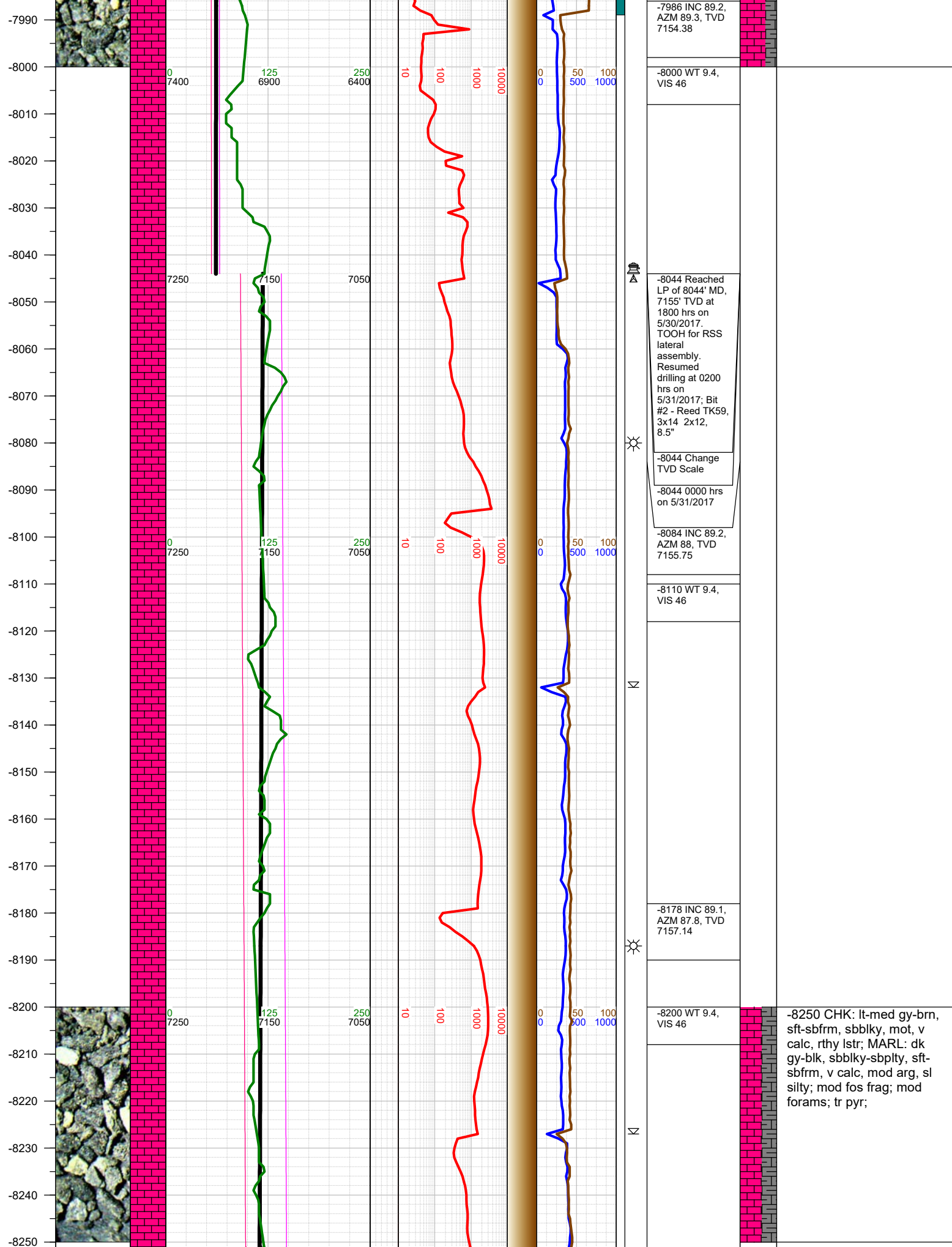


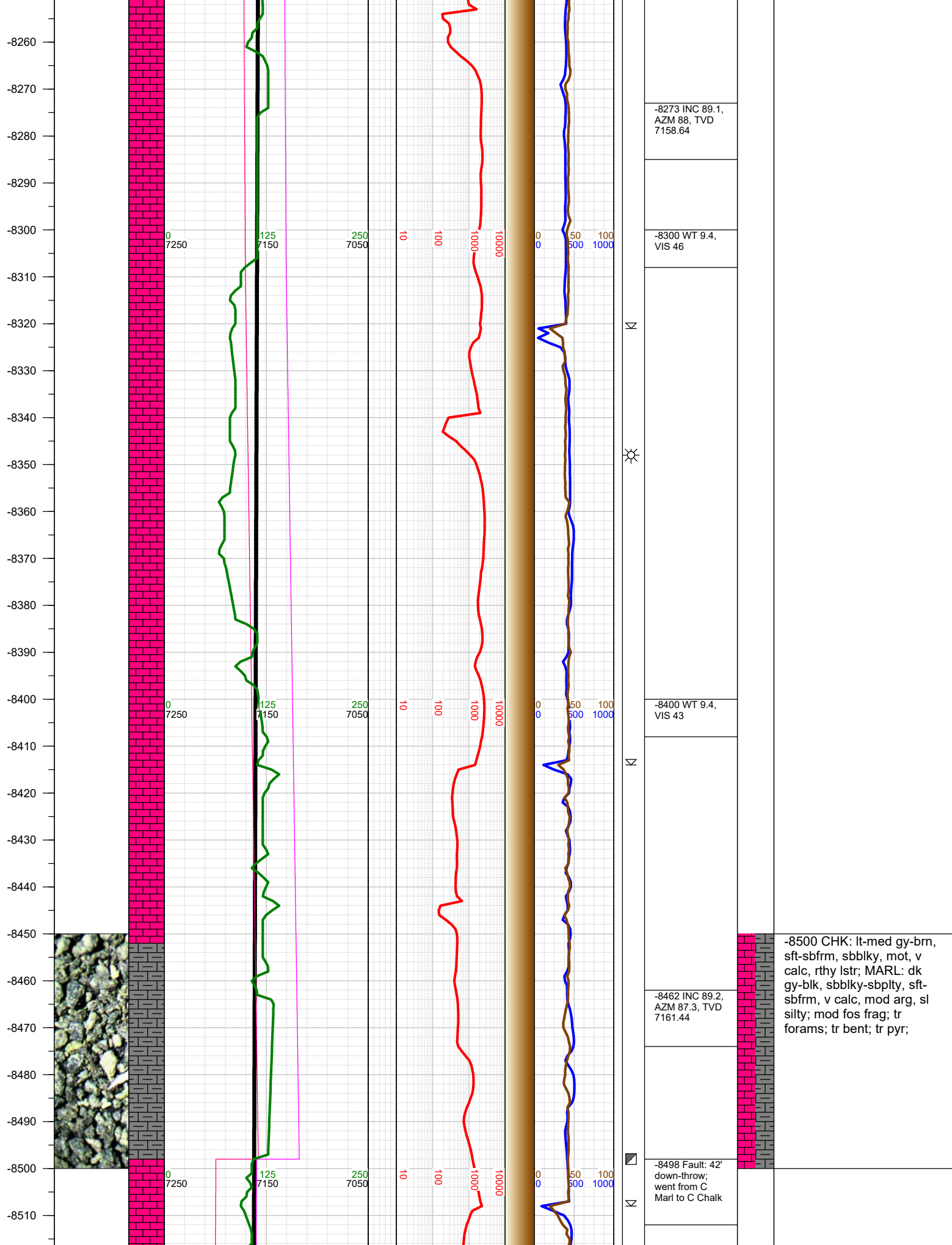


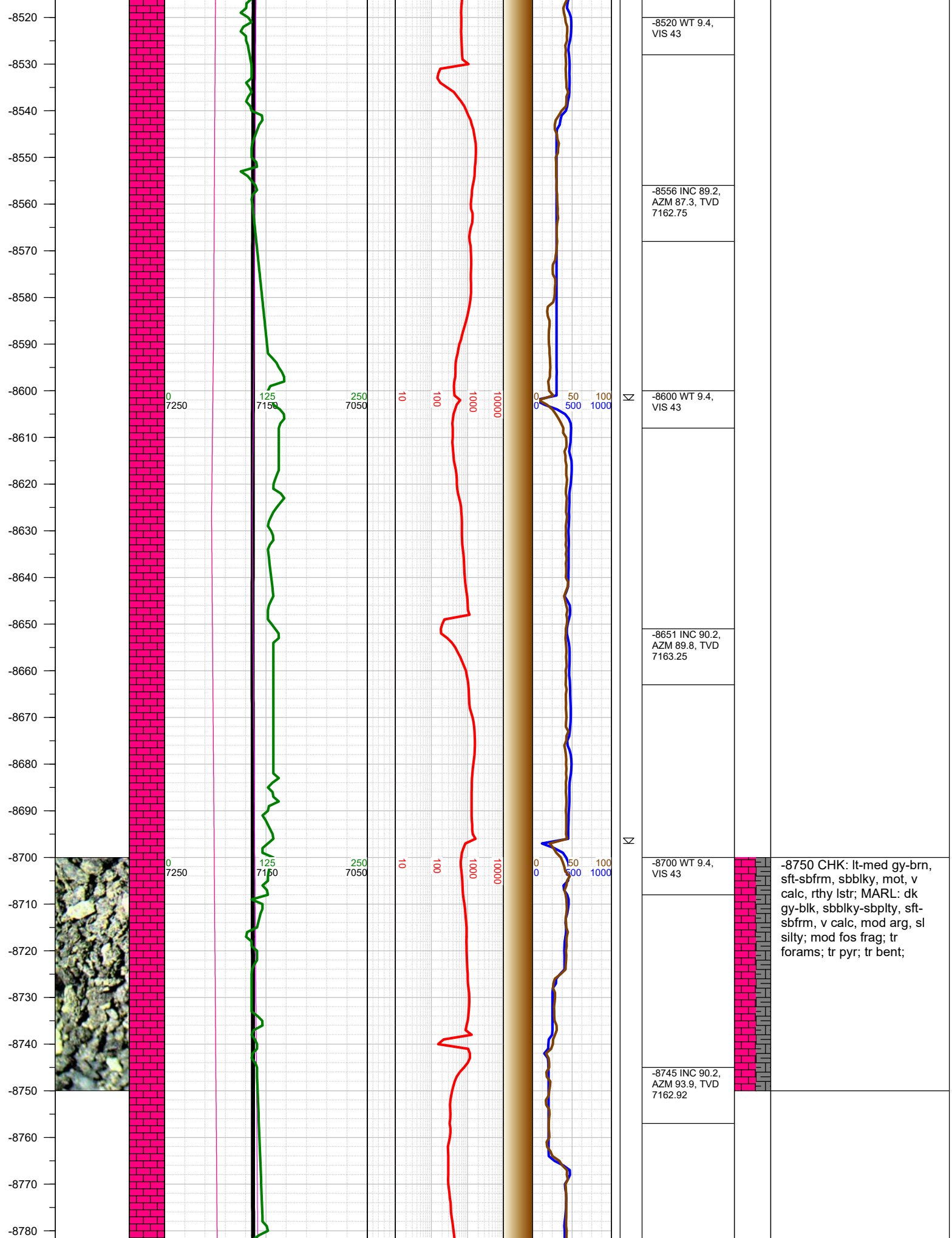


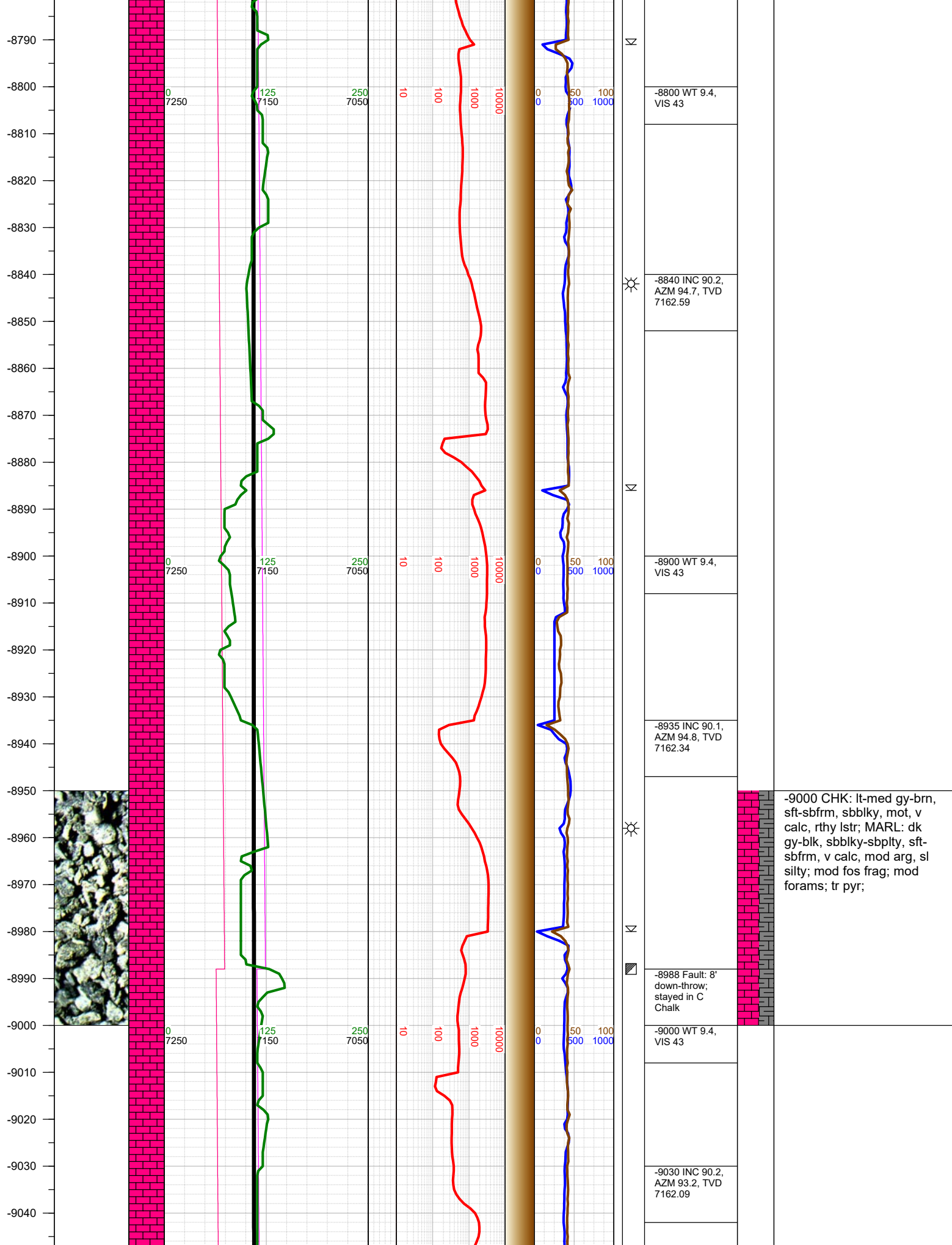


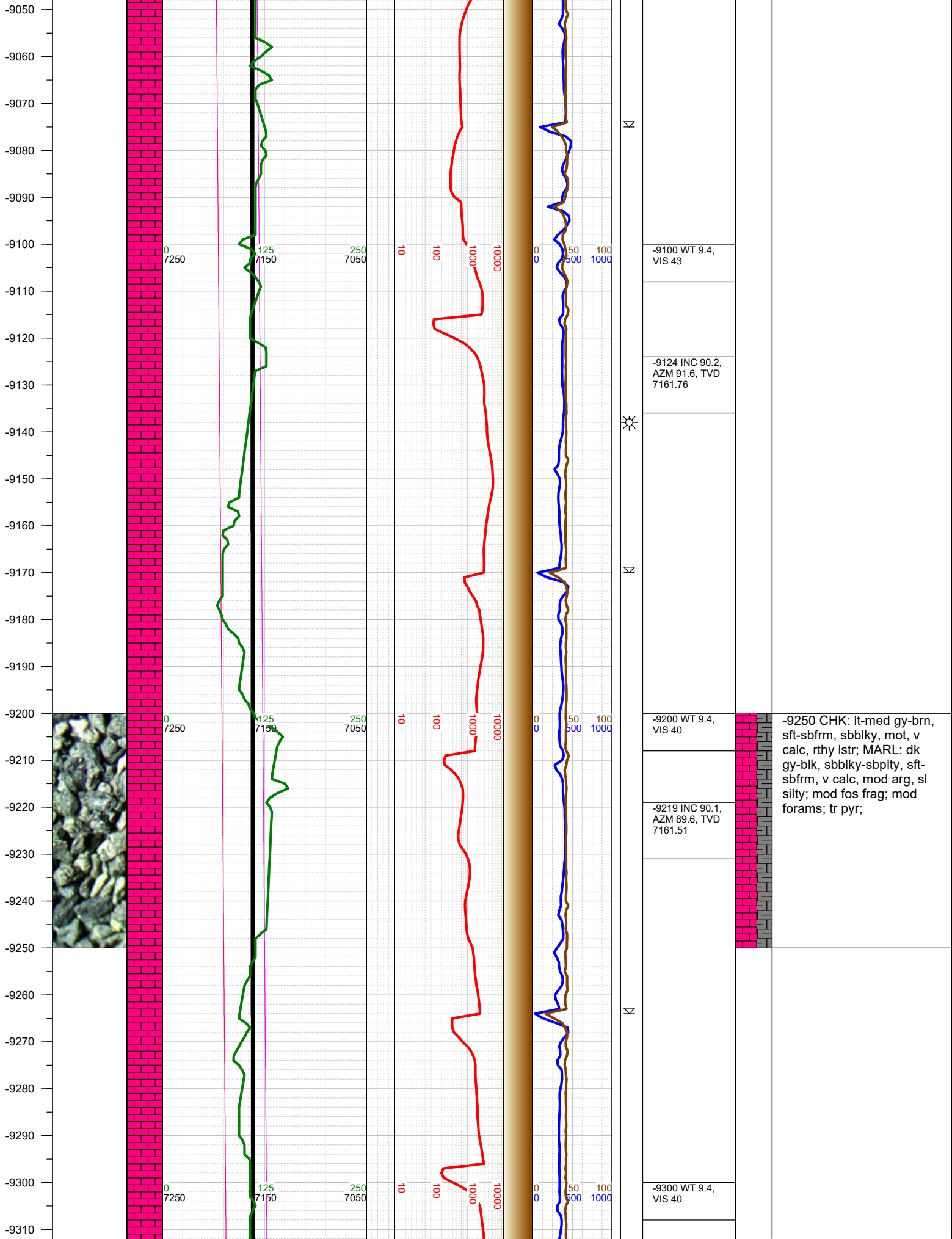


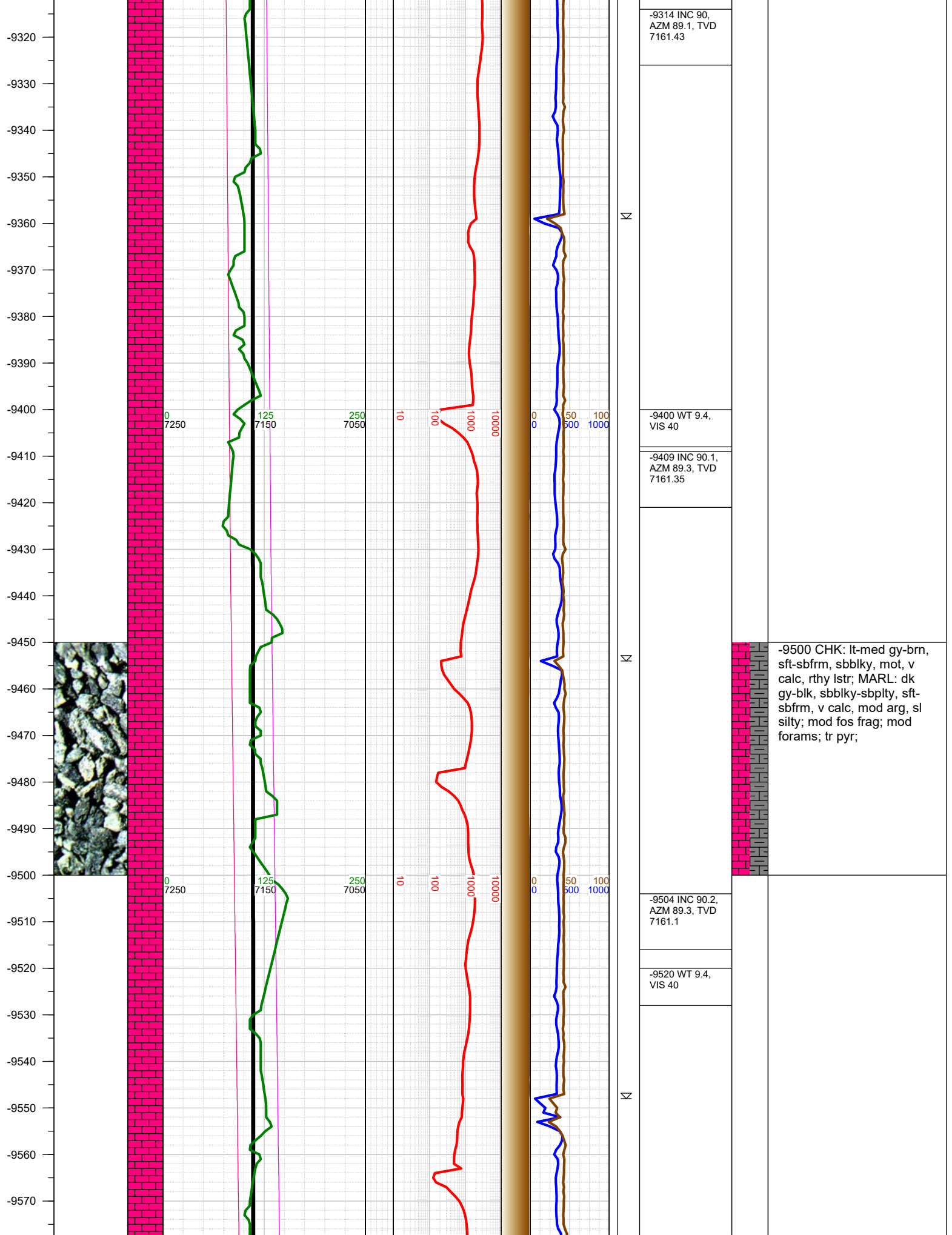


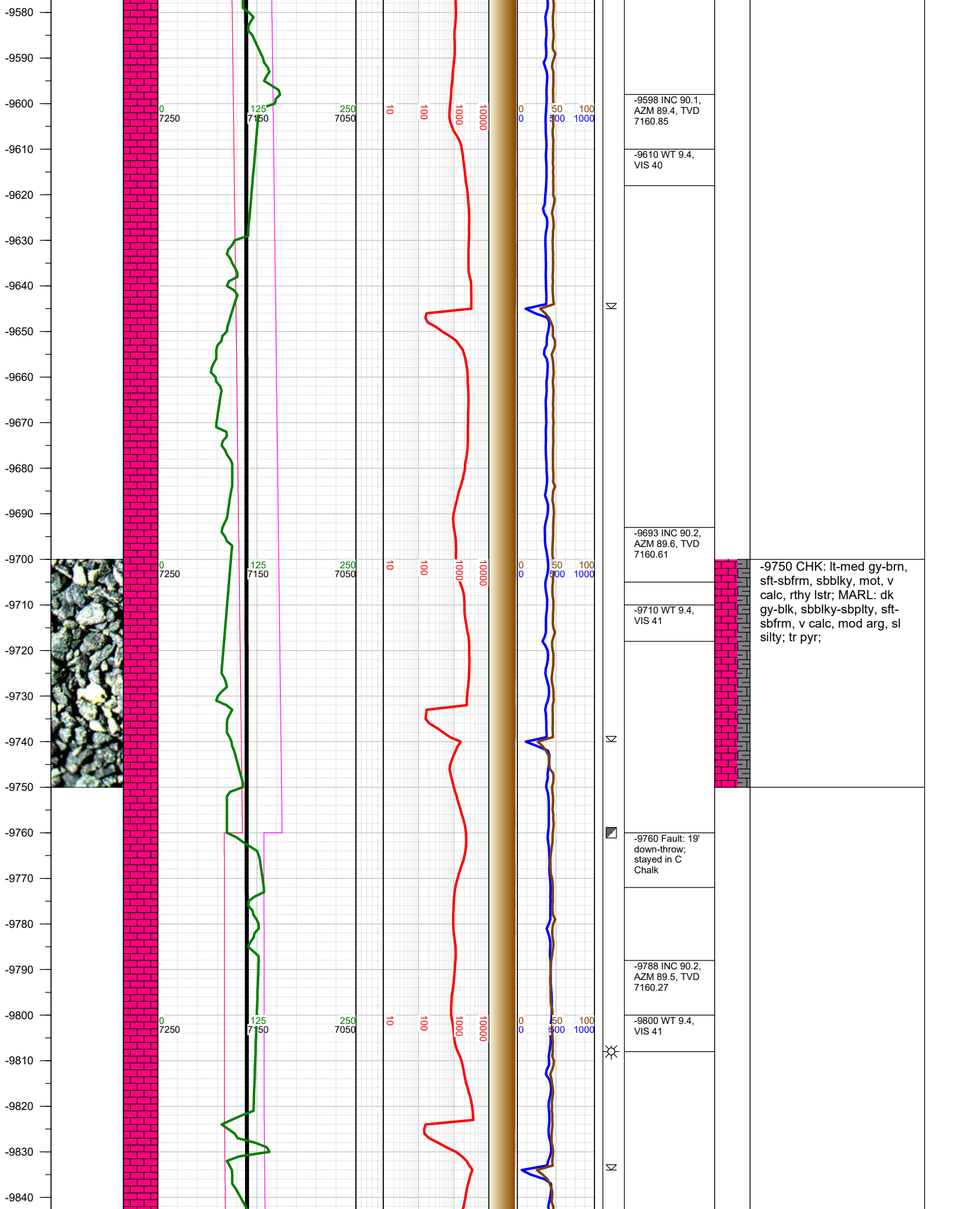


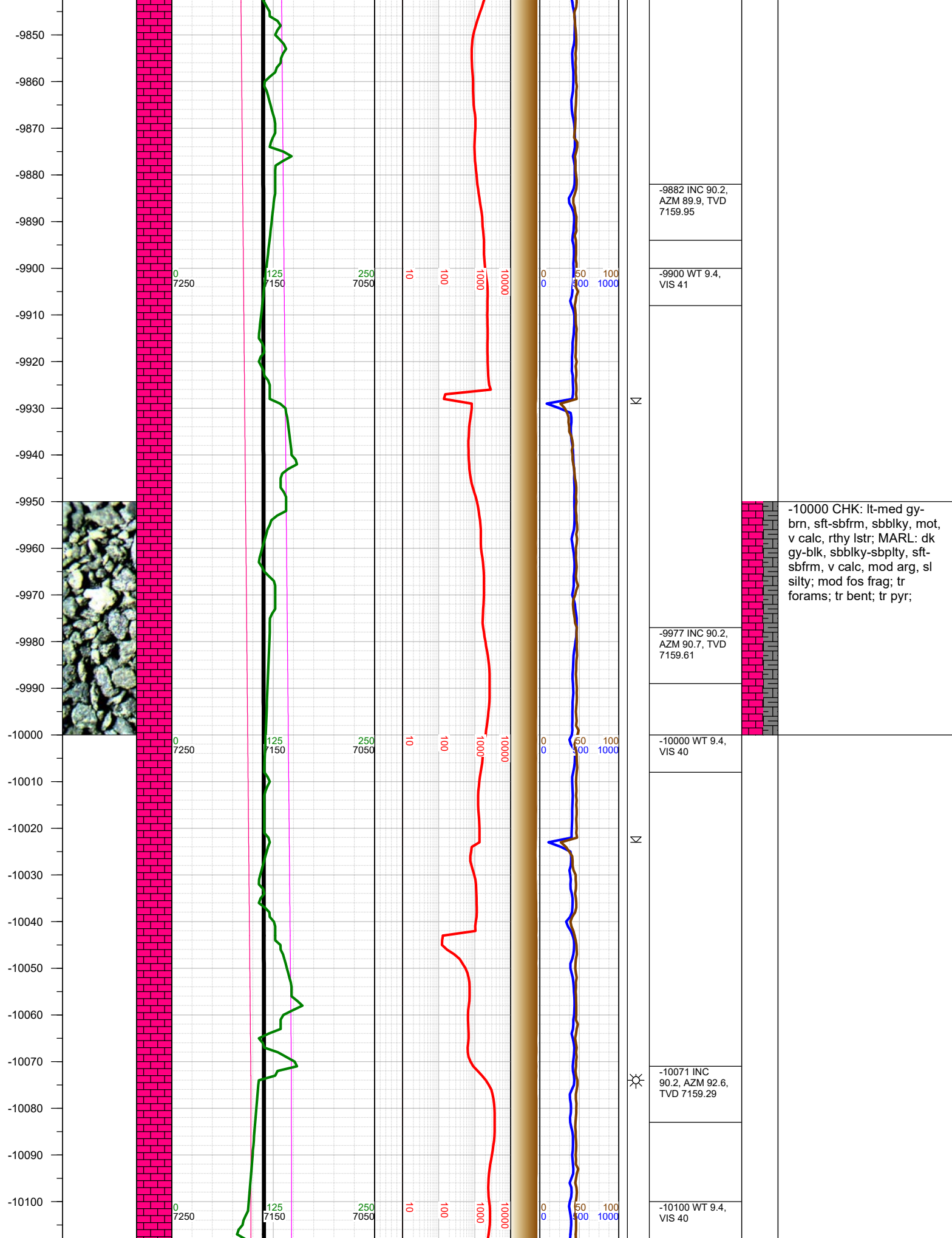


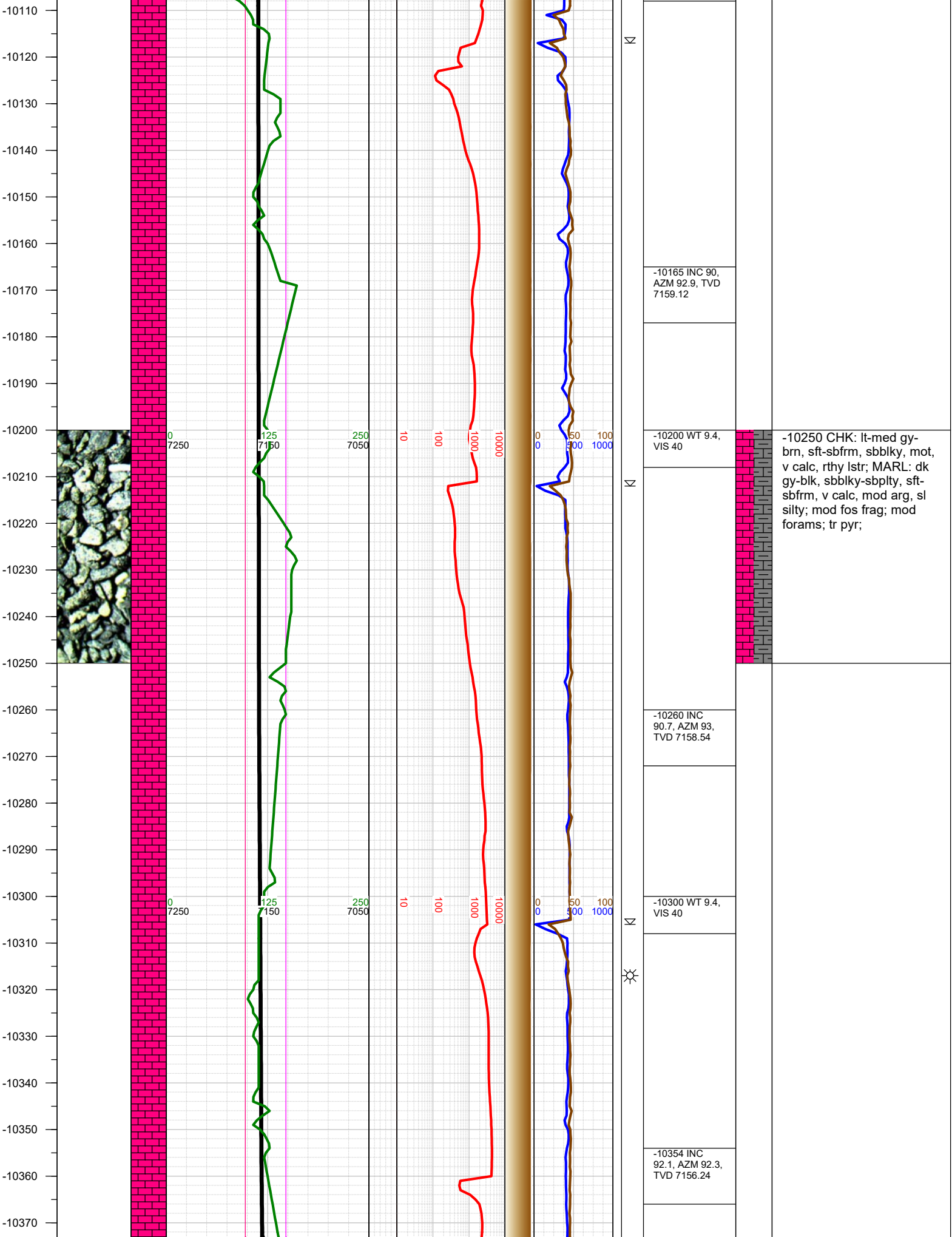


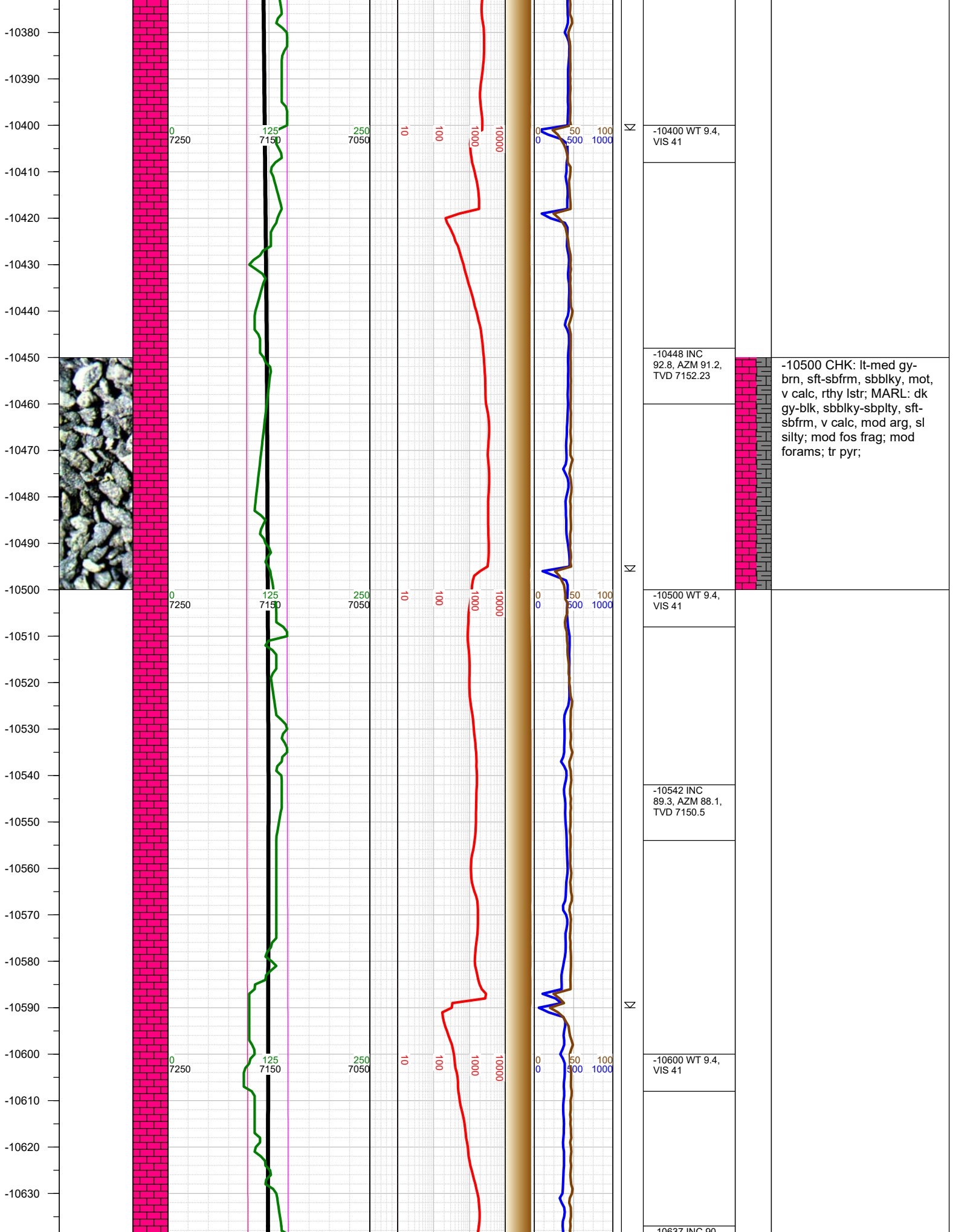


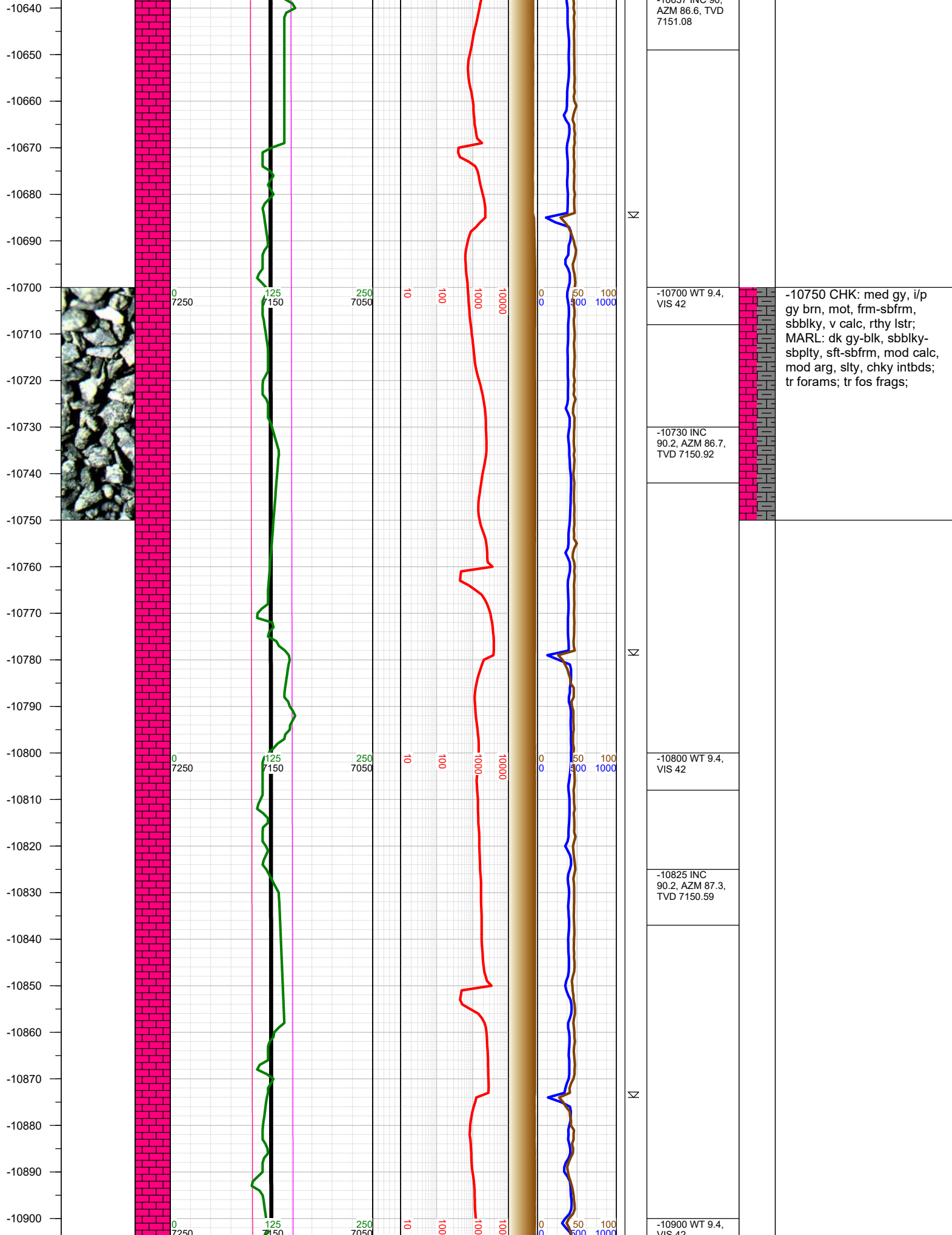


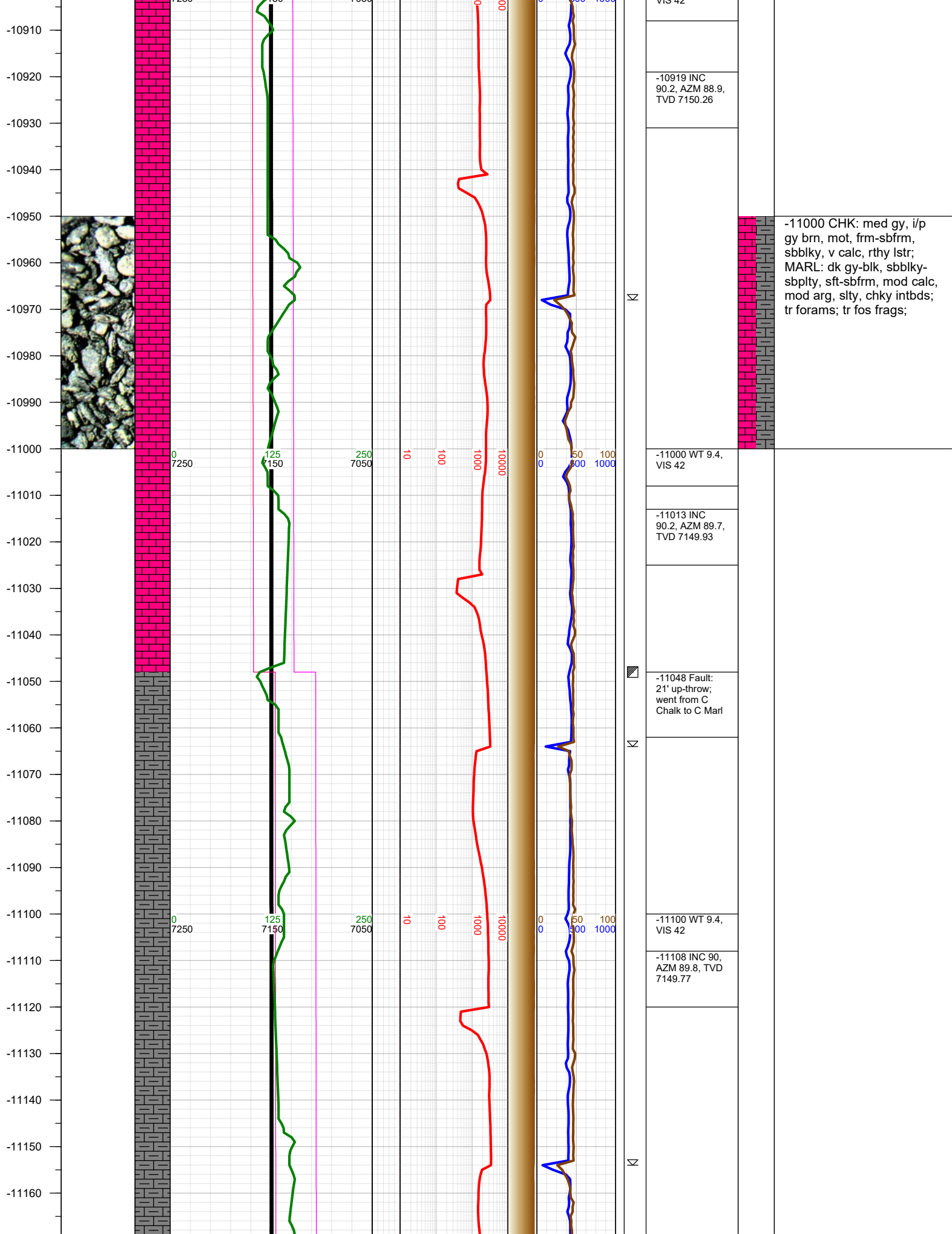


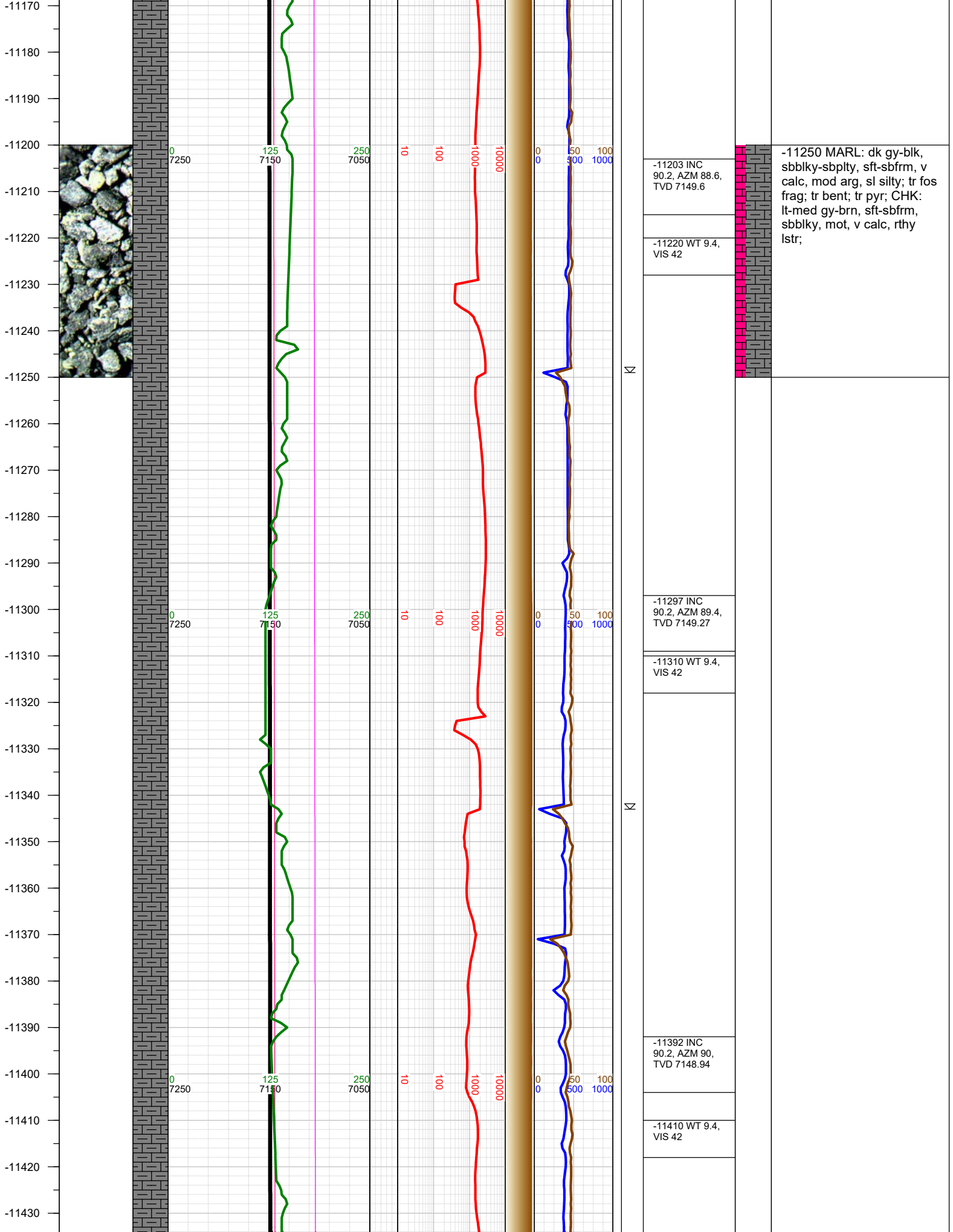












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-11486 INC
90.2, AZM 91,
TVD 7148.61

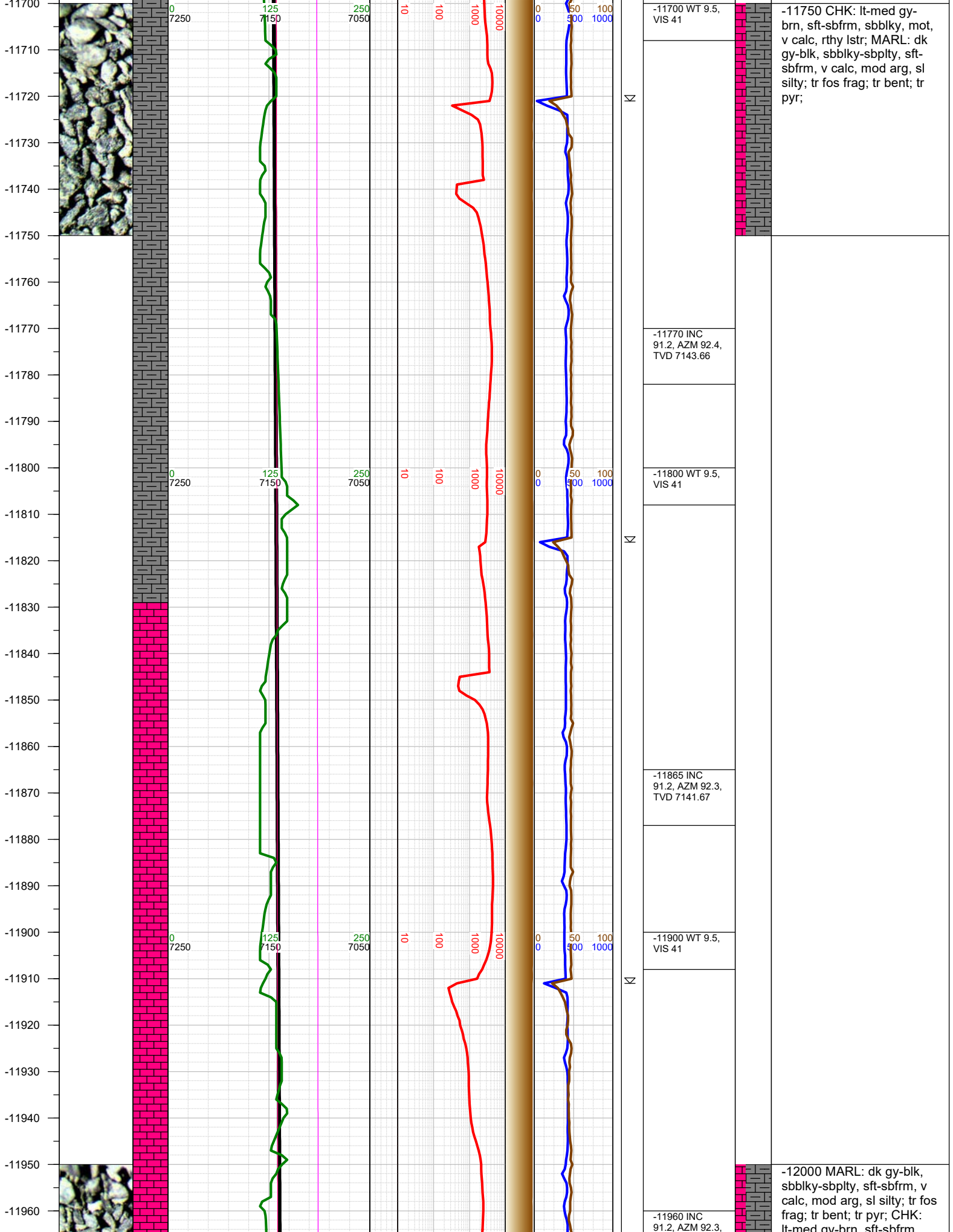
-11500 WT 9.5,
VIS 41

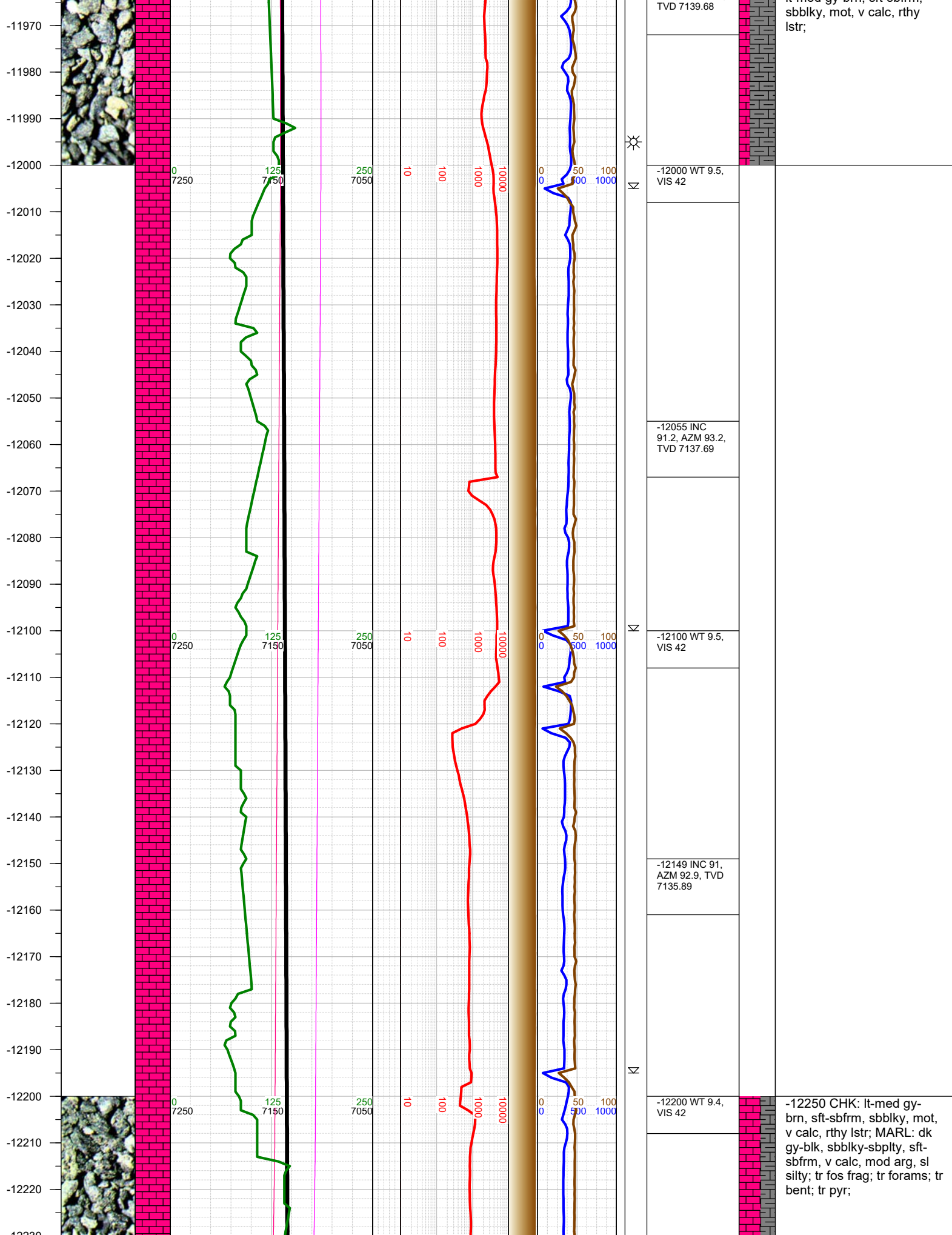
-11581 INC 91,
AZM 92.3, TVD
7147.62

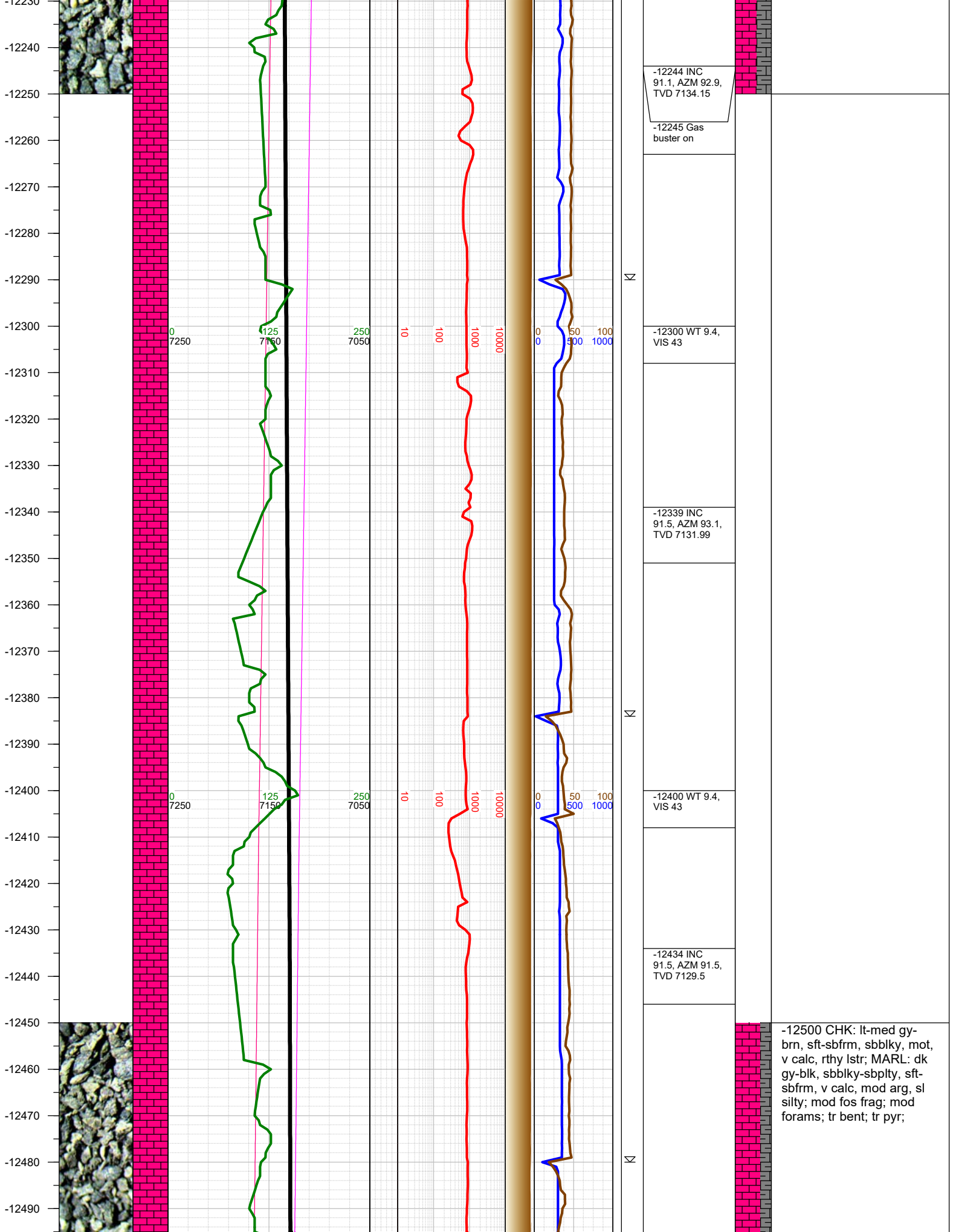
-11600 WT 9.5,
VIS 41

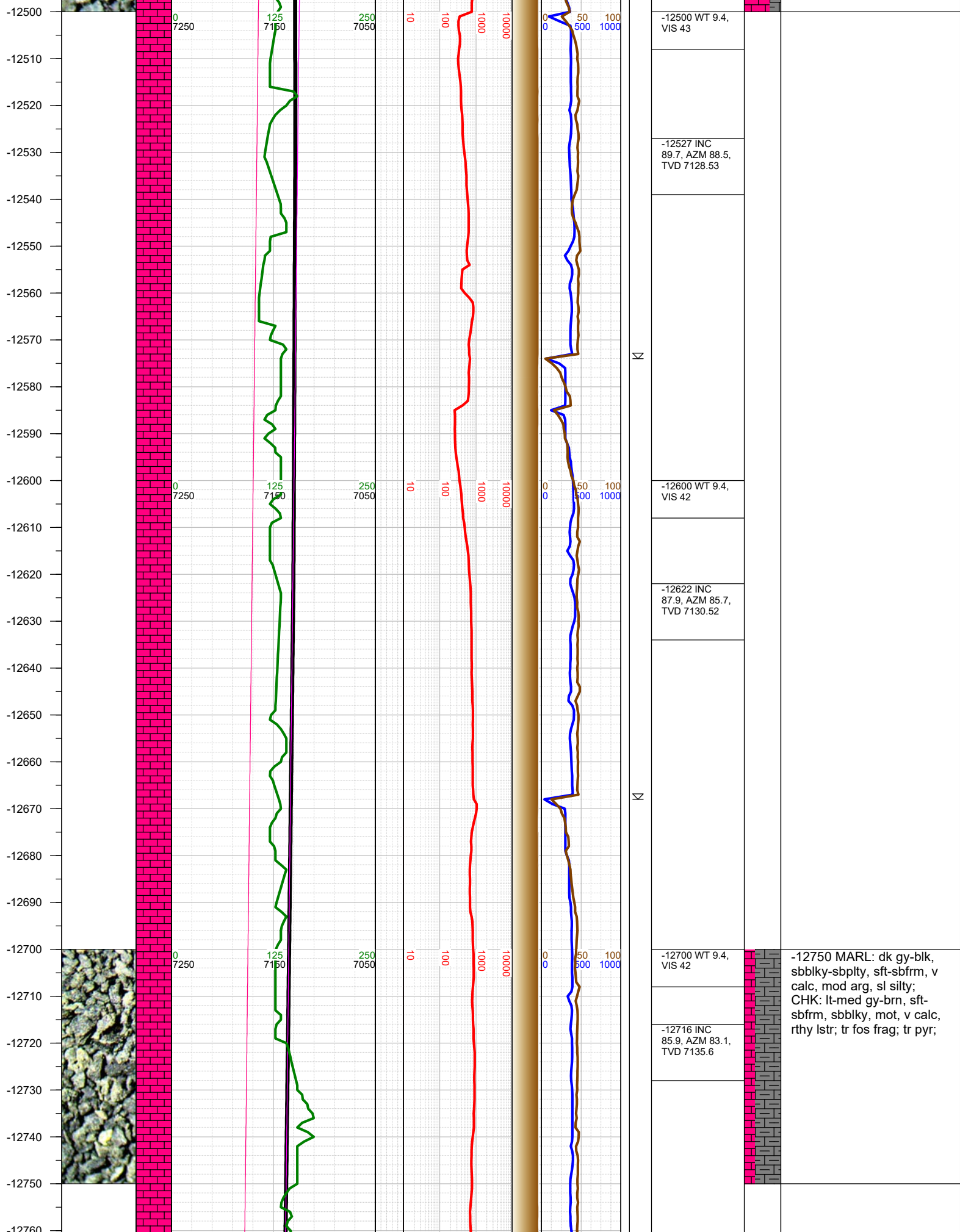
-11675 INC
91.3, AZM 92.3,
TVD 7145.73

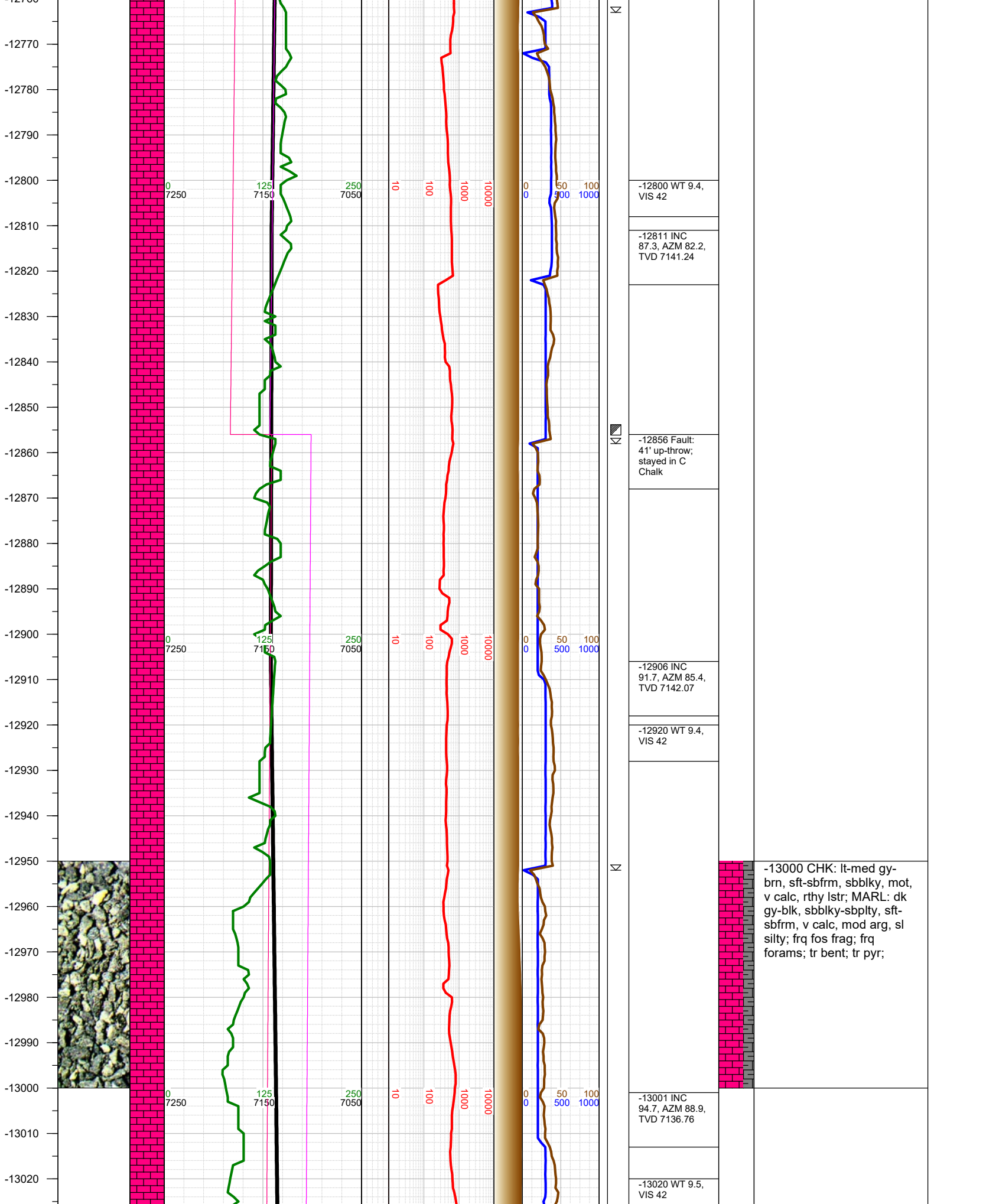
-11500 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, v calc, mod arg, sl
silty; tr fos frag; tr bent; tr
pyr;



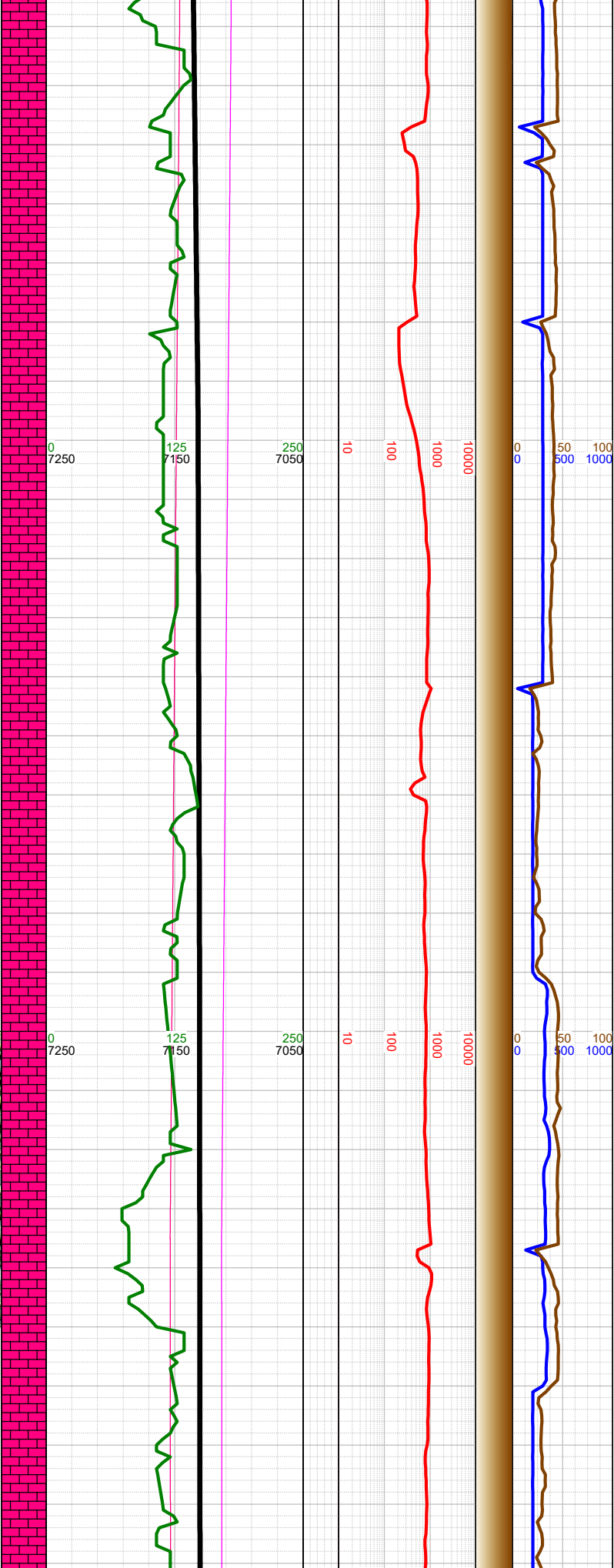




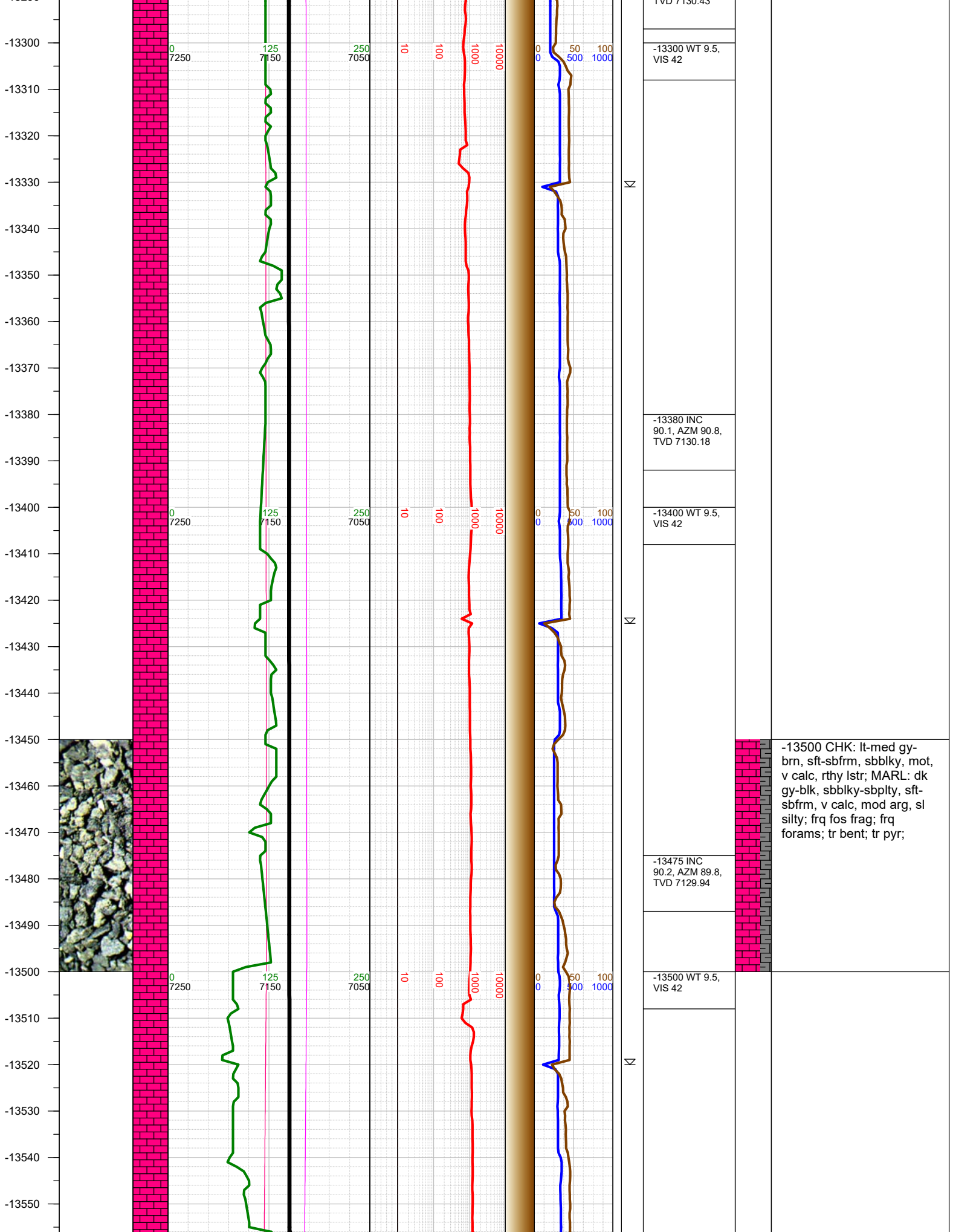


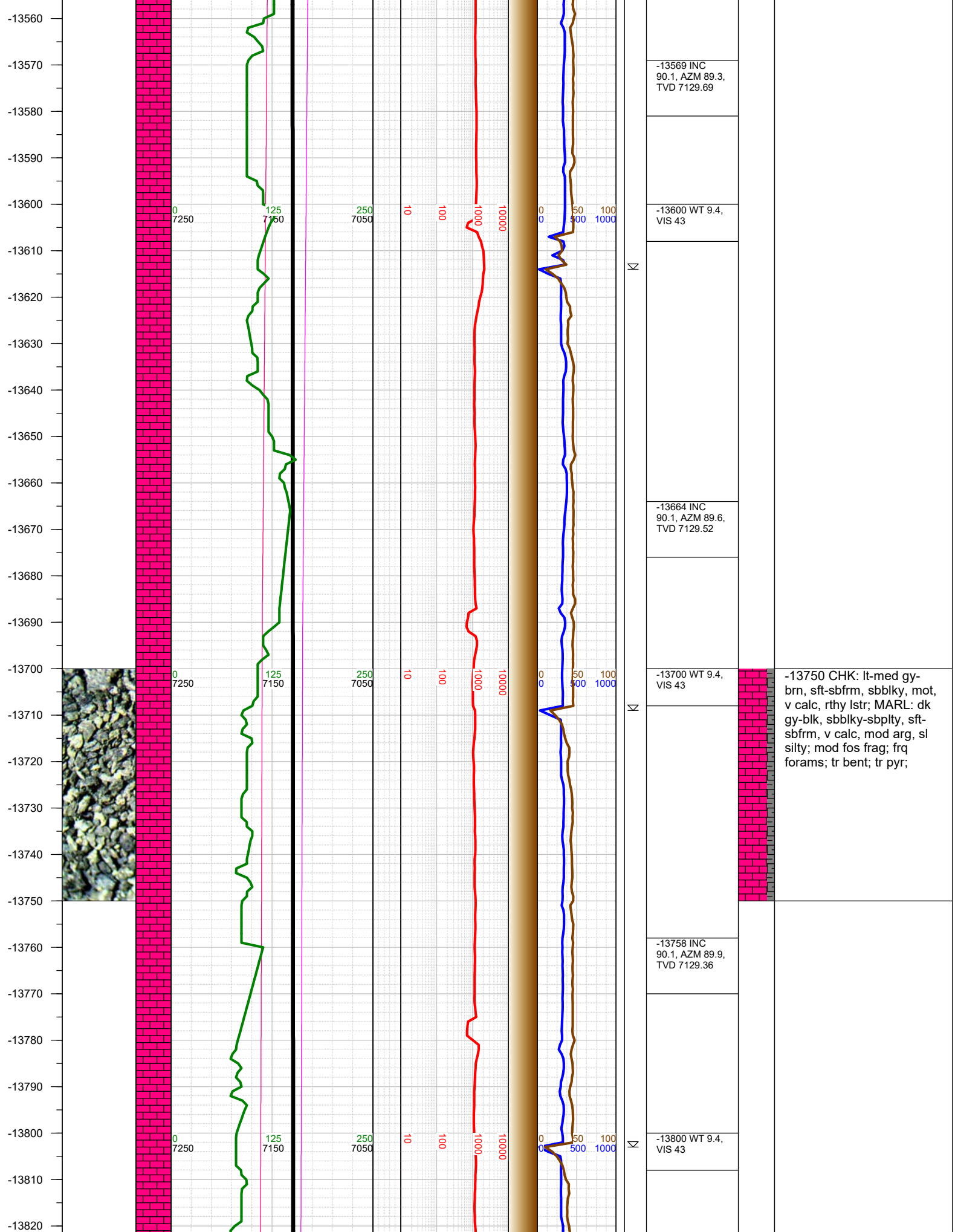


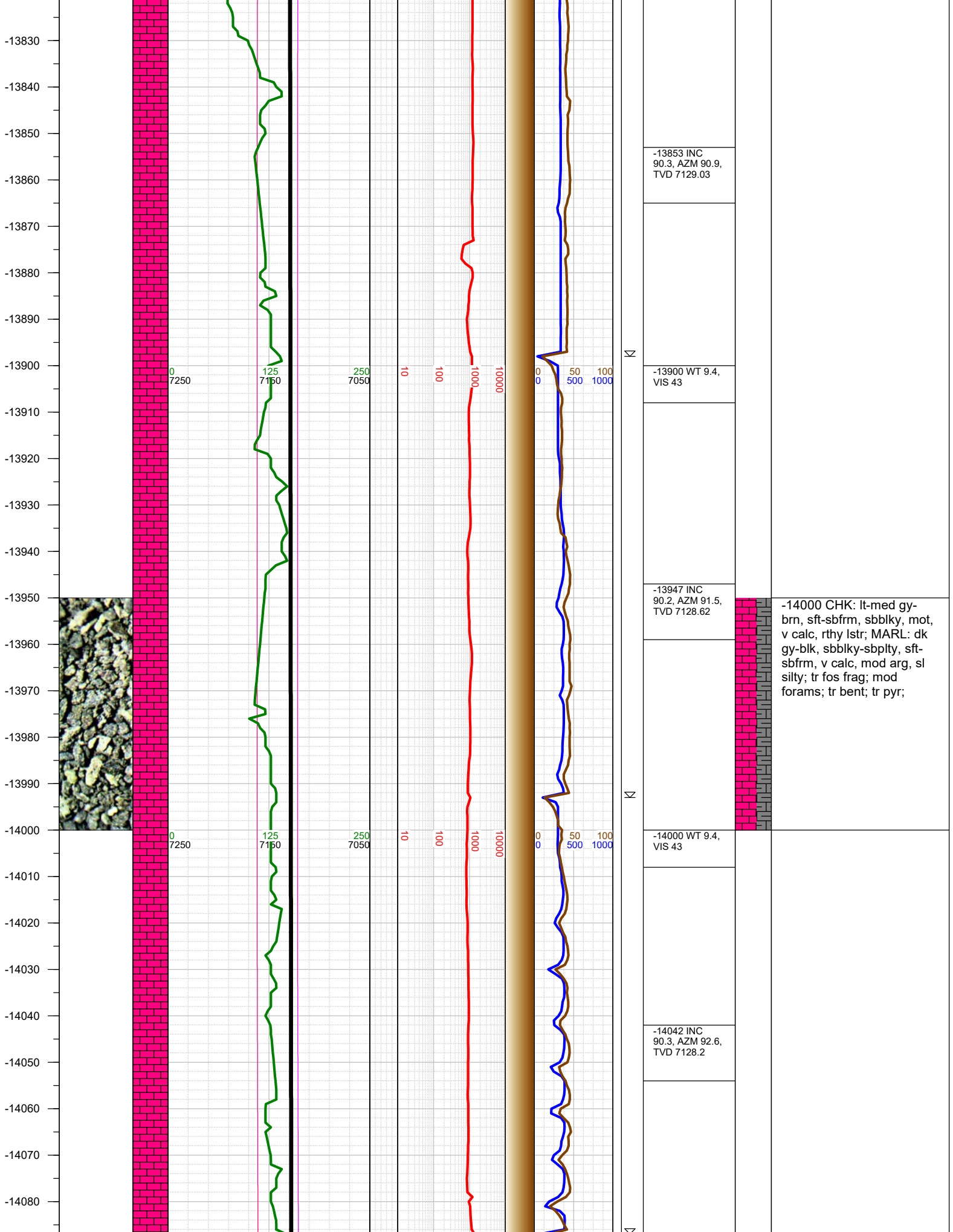
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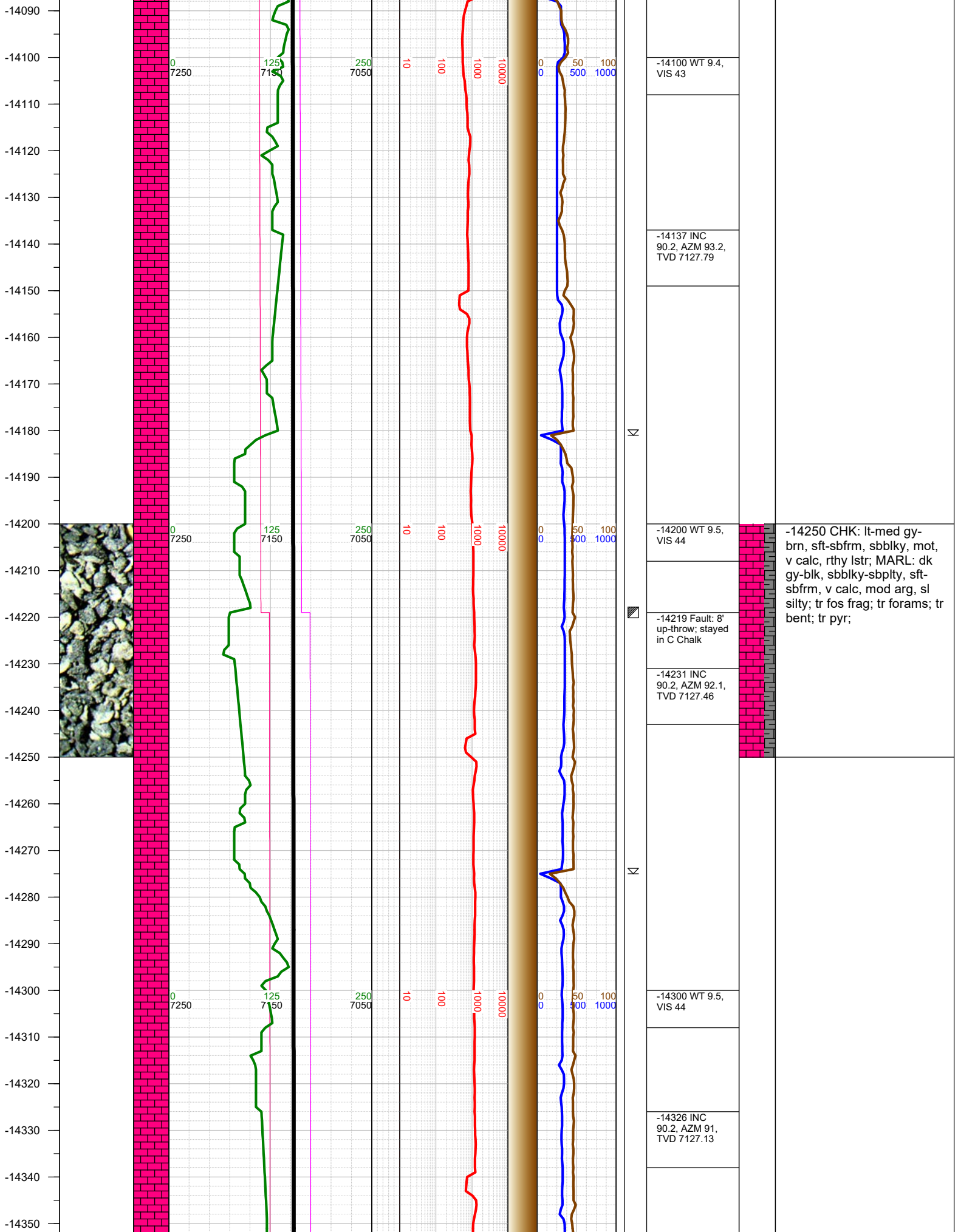


N		-13095 INC 91.2, AZM 90.7, TVD 7131.93	
		-13110 WT 9.5, VIS 42	
N		-13190 INC 90.2, AZM 92.1, TVD 7130.77	
		-13210 WT 9.5, VIS 42	-13250 CHK: lt-med gy- brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft- sbfrm, v calc, mod arg, sl silty; frq fos frag; frq forams; tr bent; tr pyr;
N		-13248 0000 hrs on 6/1/2017	
A		-13285 INC 90.2, AZM 92, TVD 7130.43	

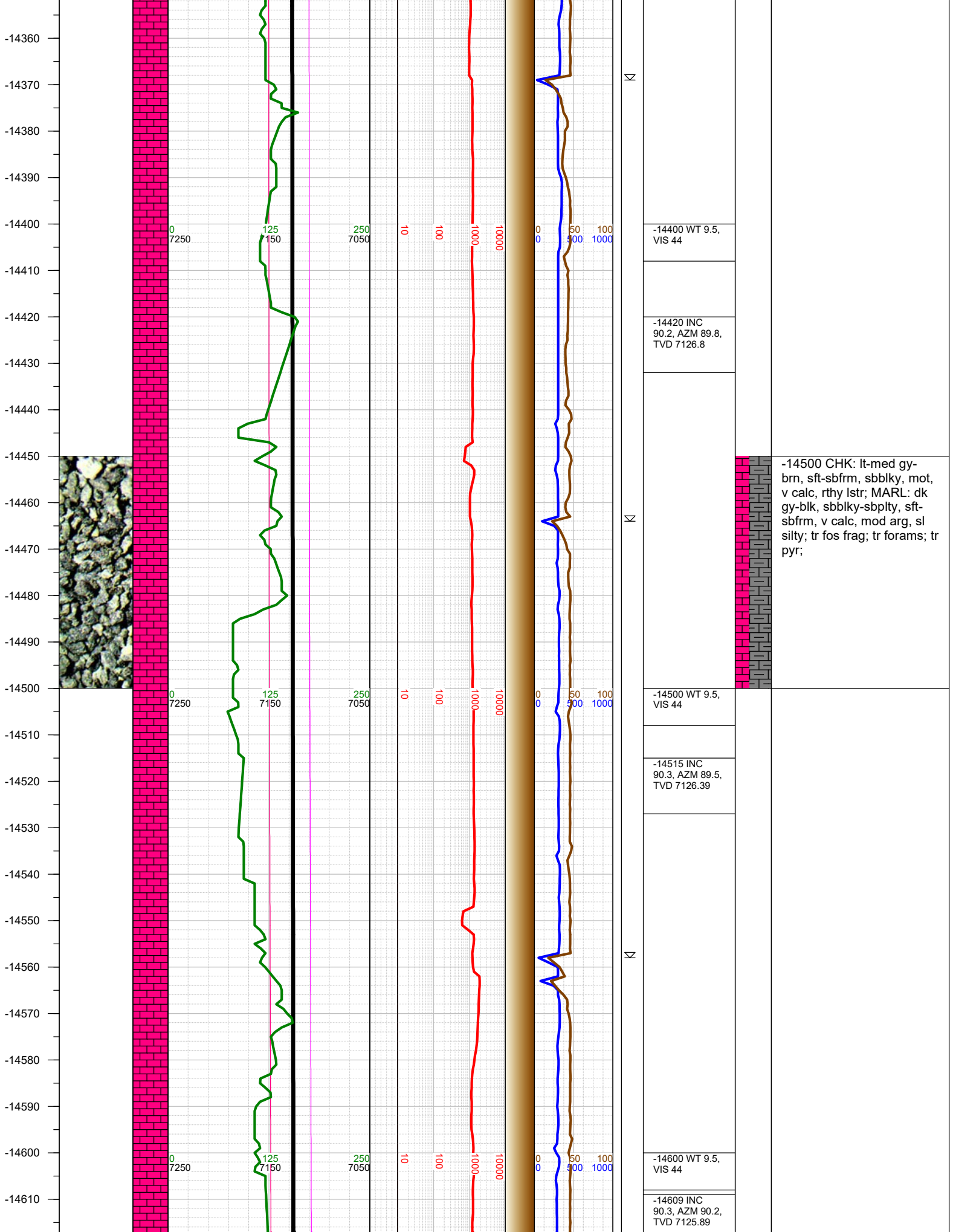


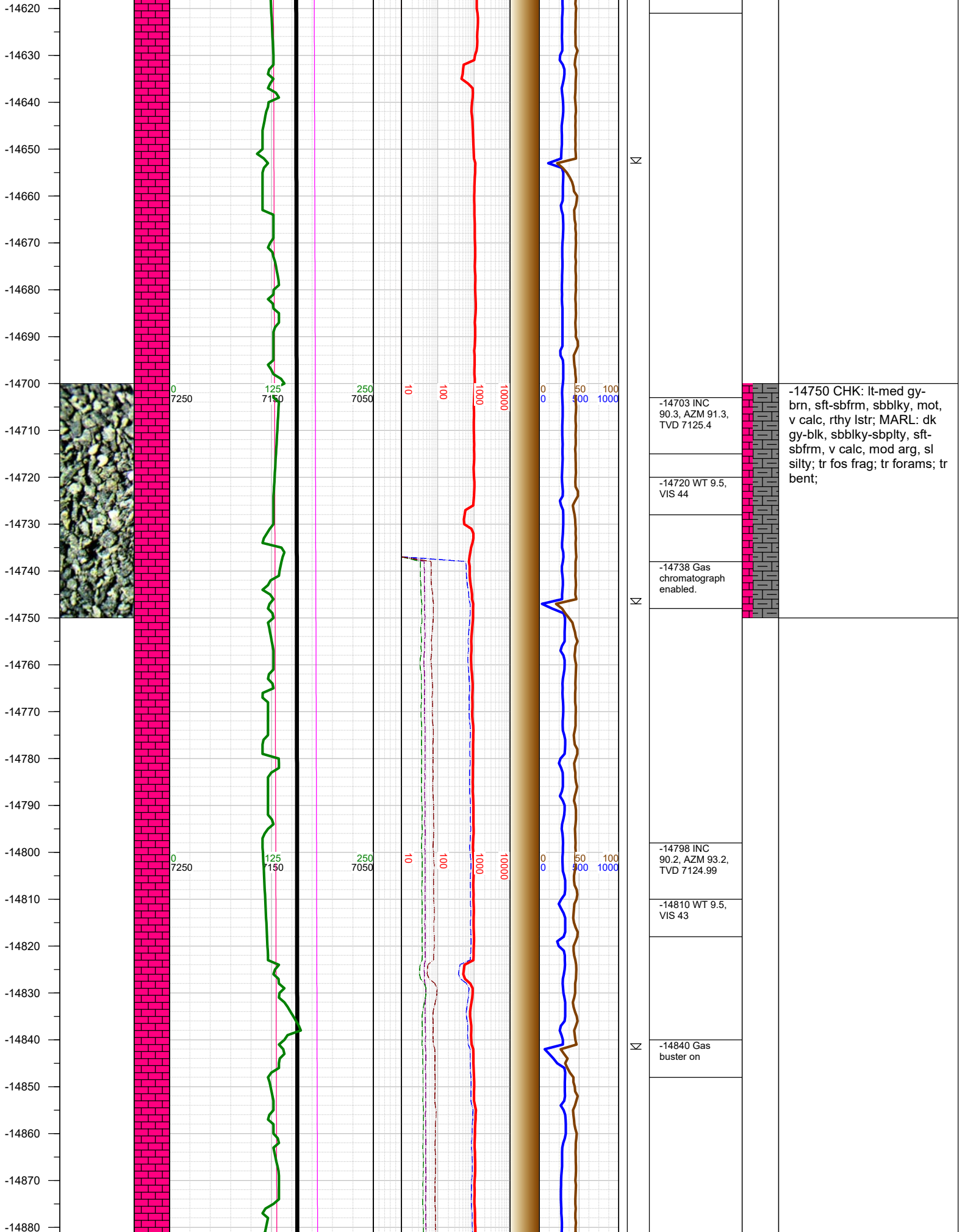


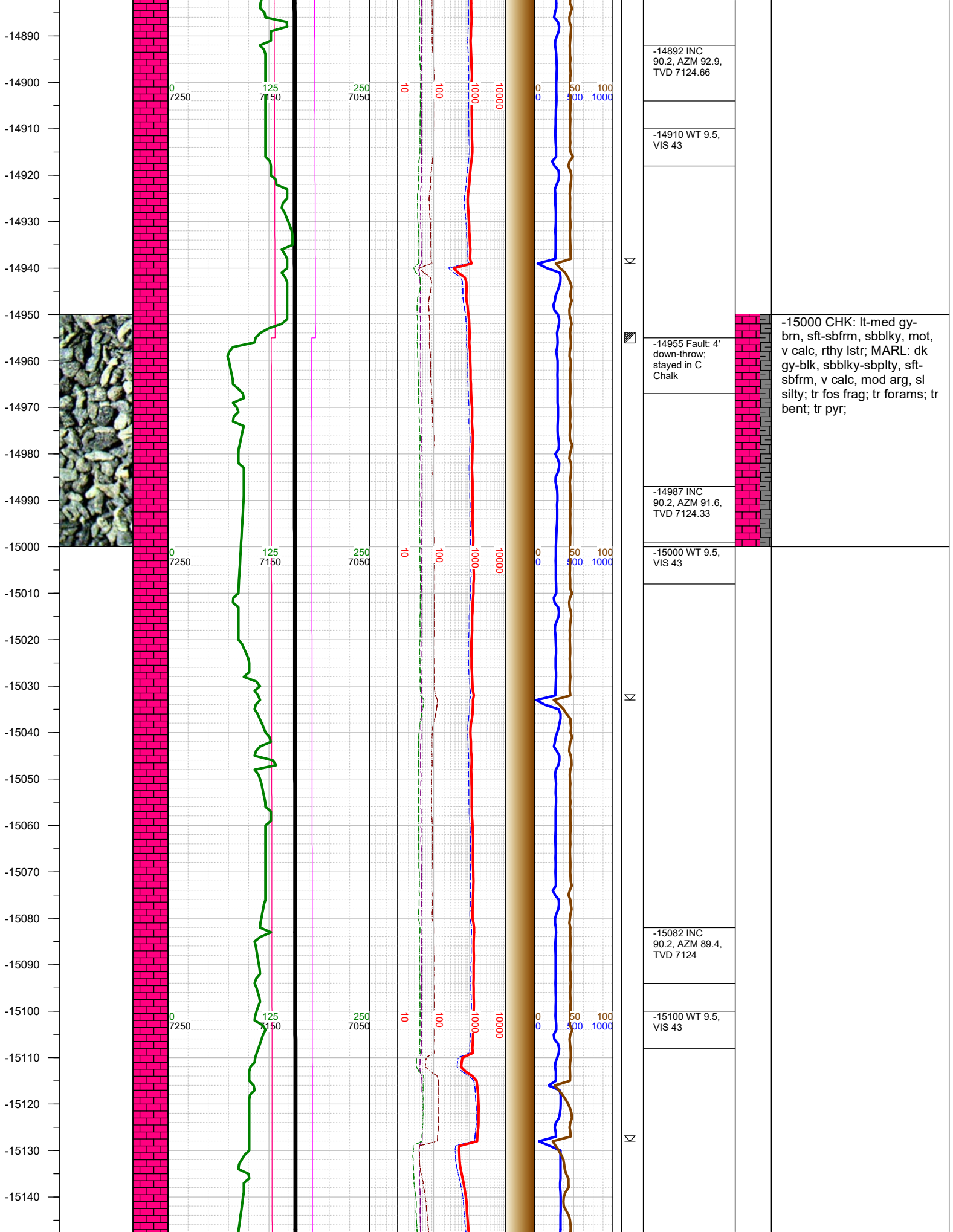


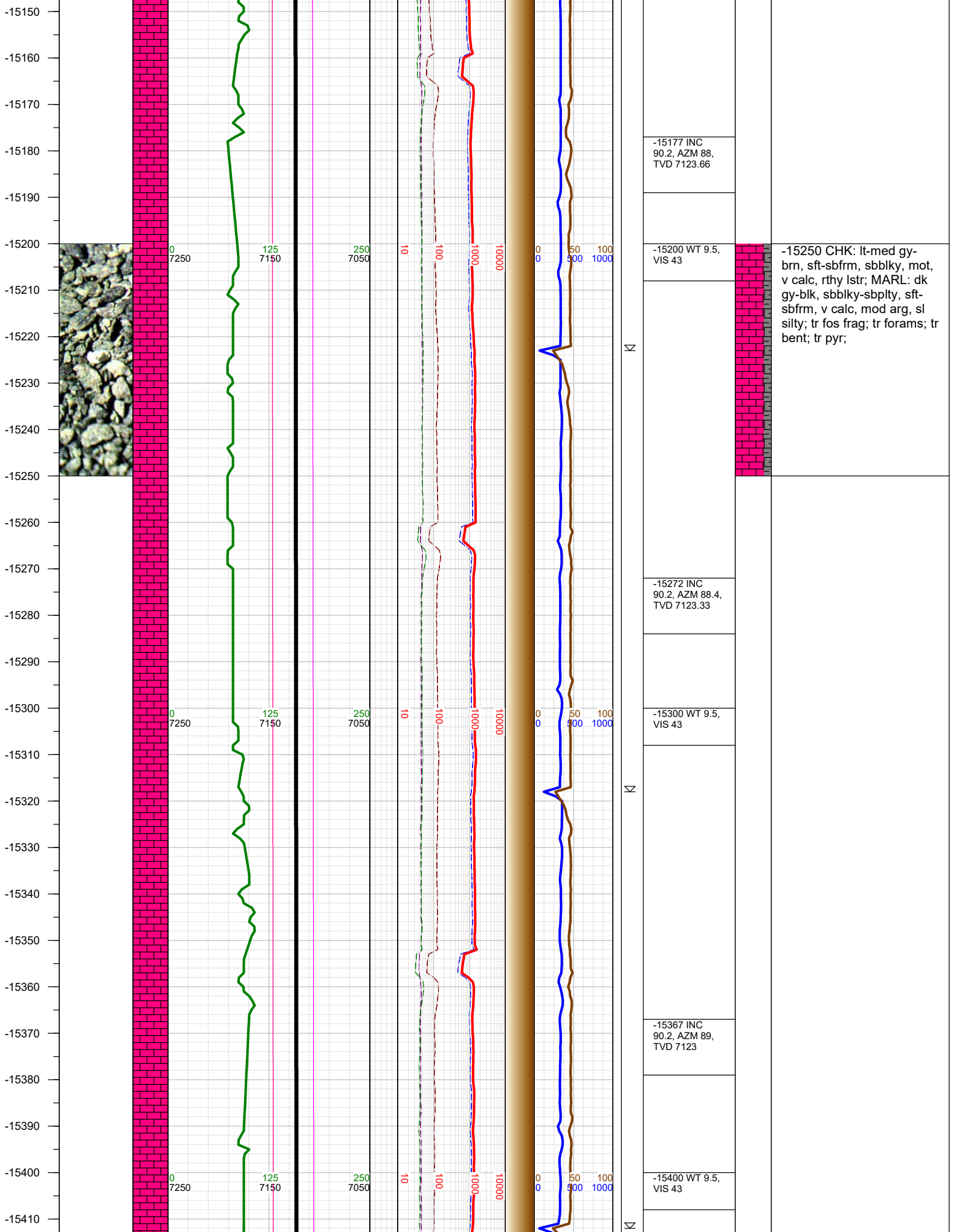


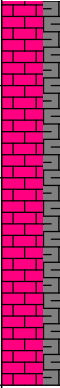
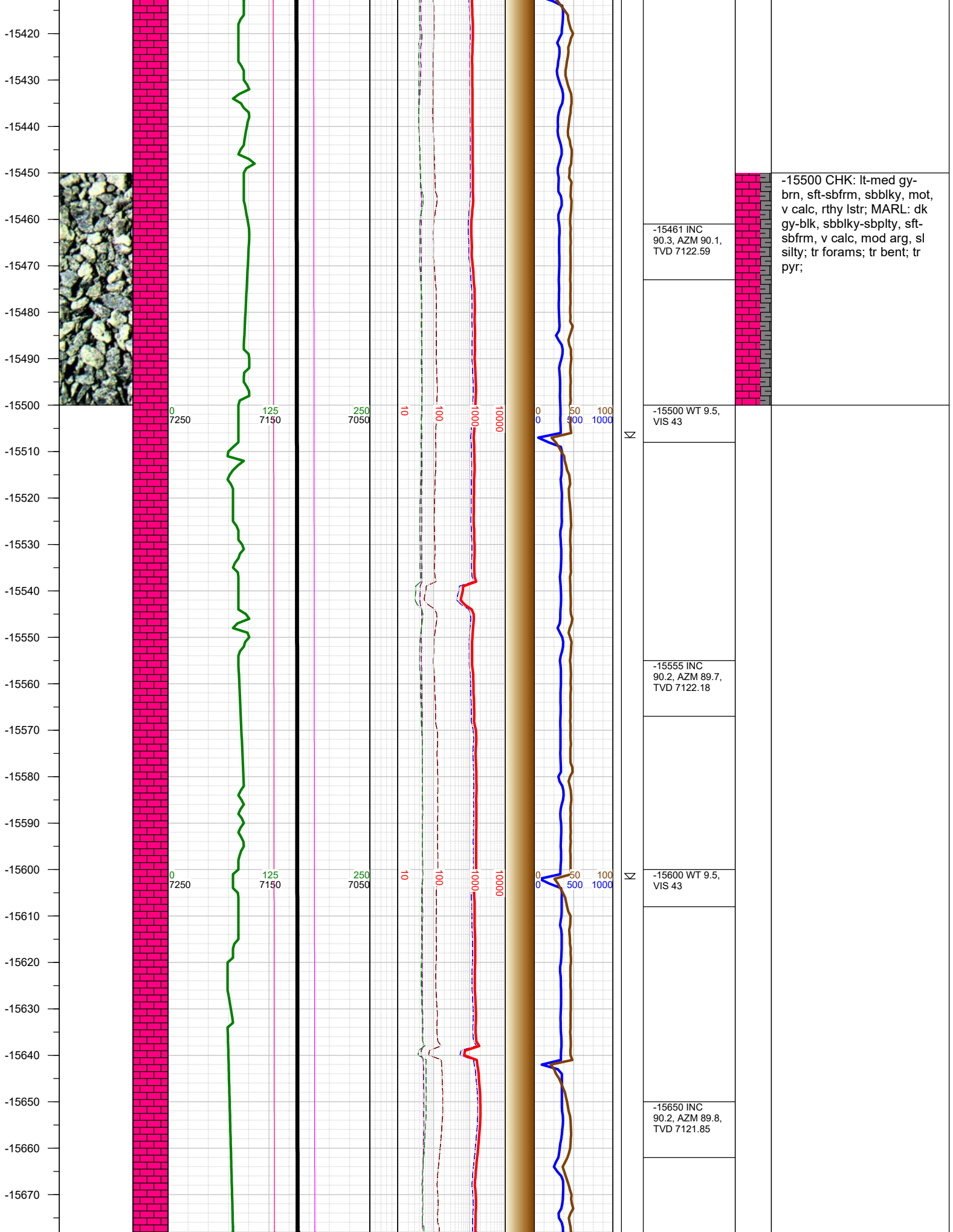
-14250 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, v calc, mod arg, sl silty; tr fos frag; tr forams; tr bent; tr pyr;



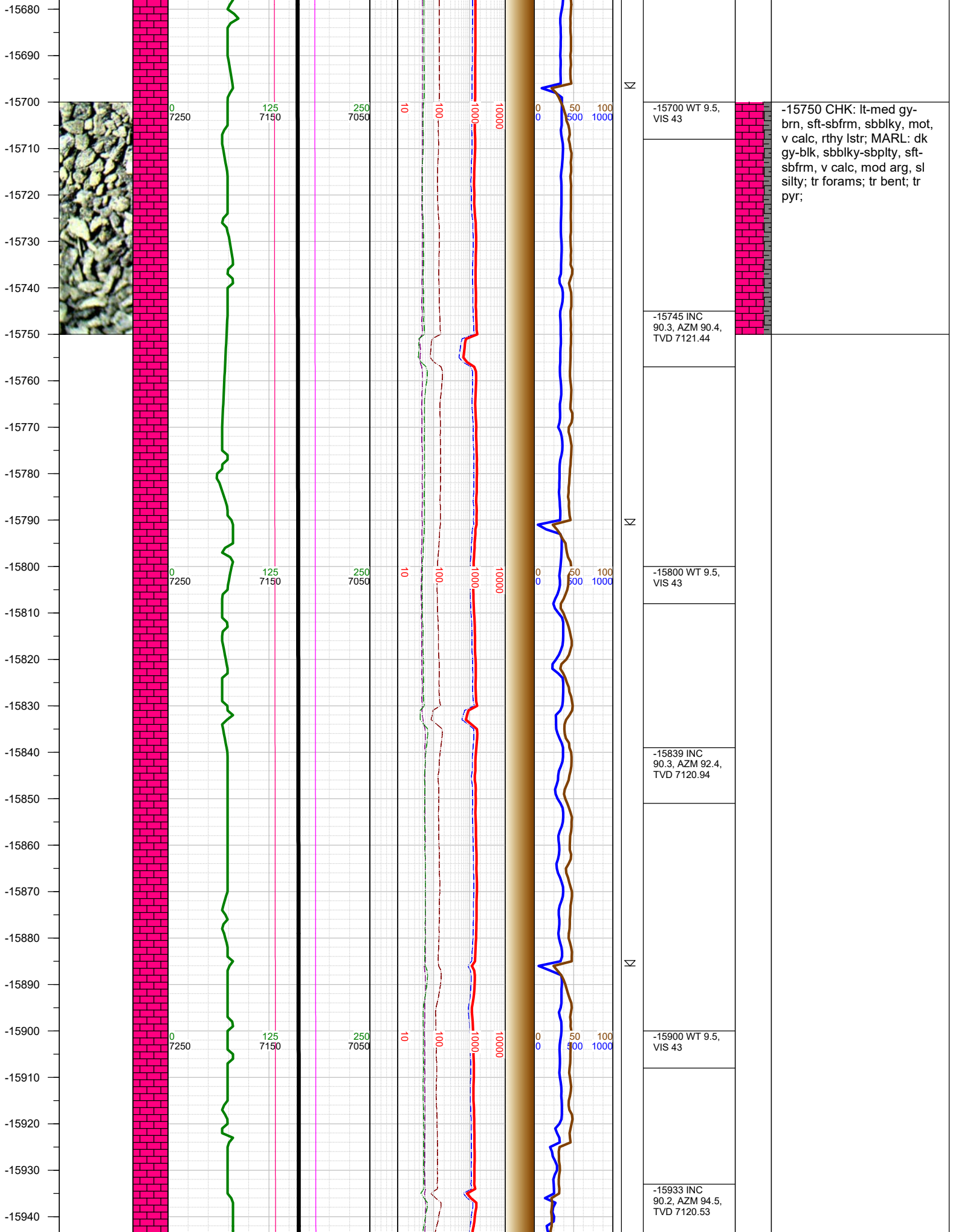


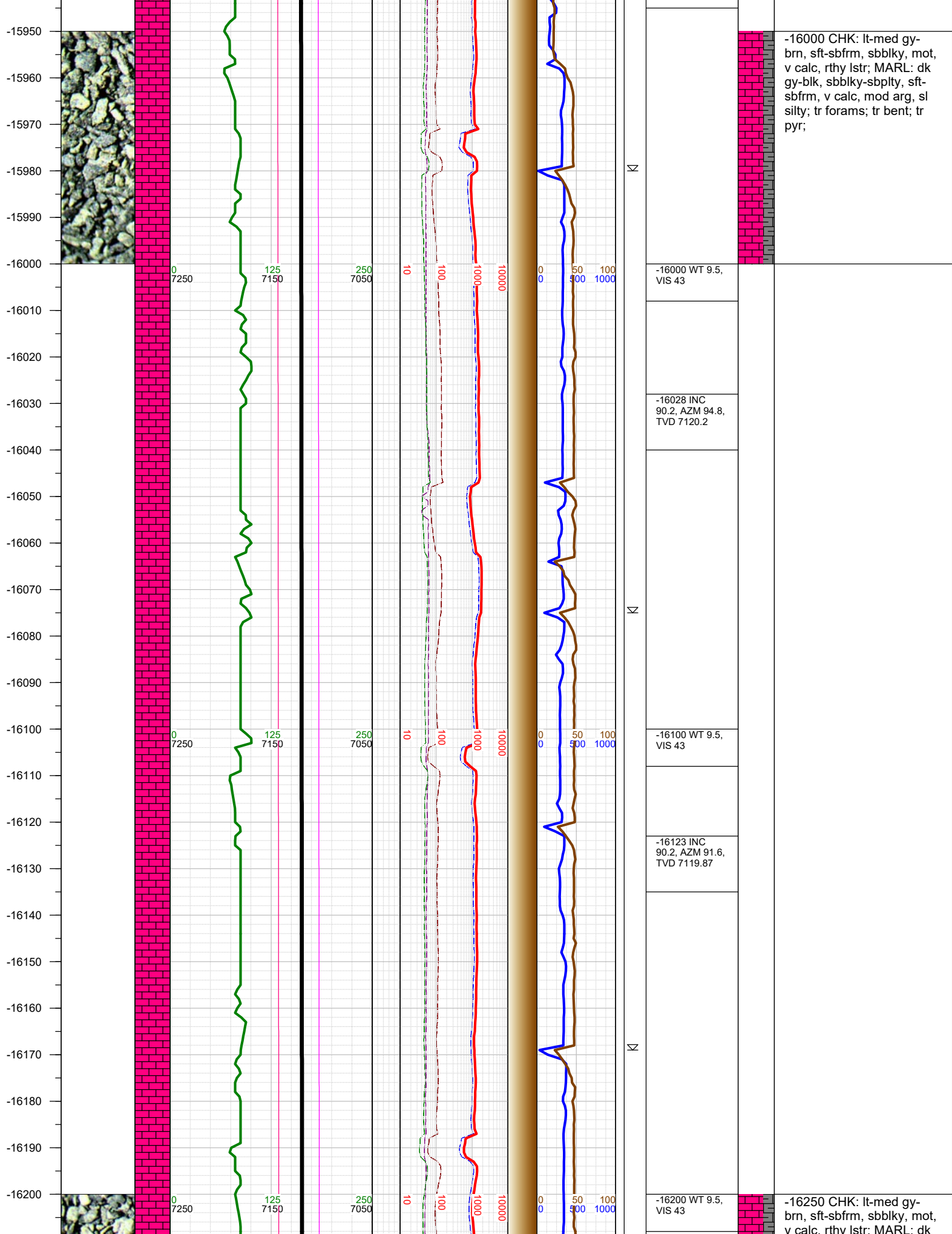


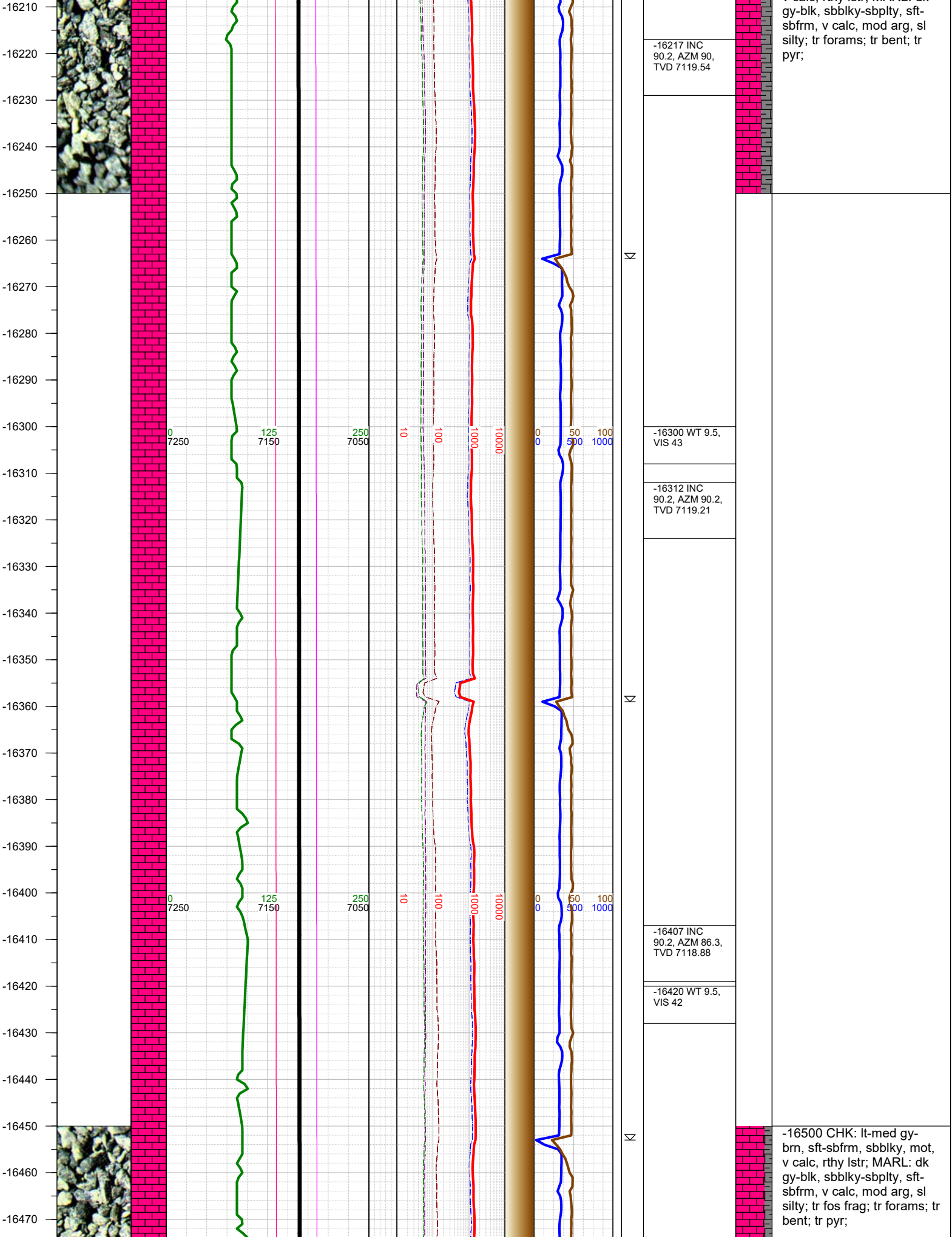


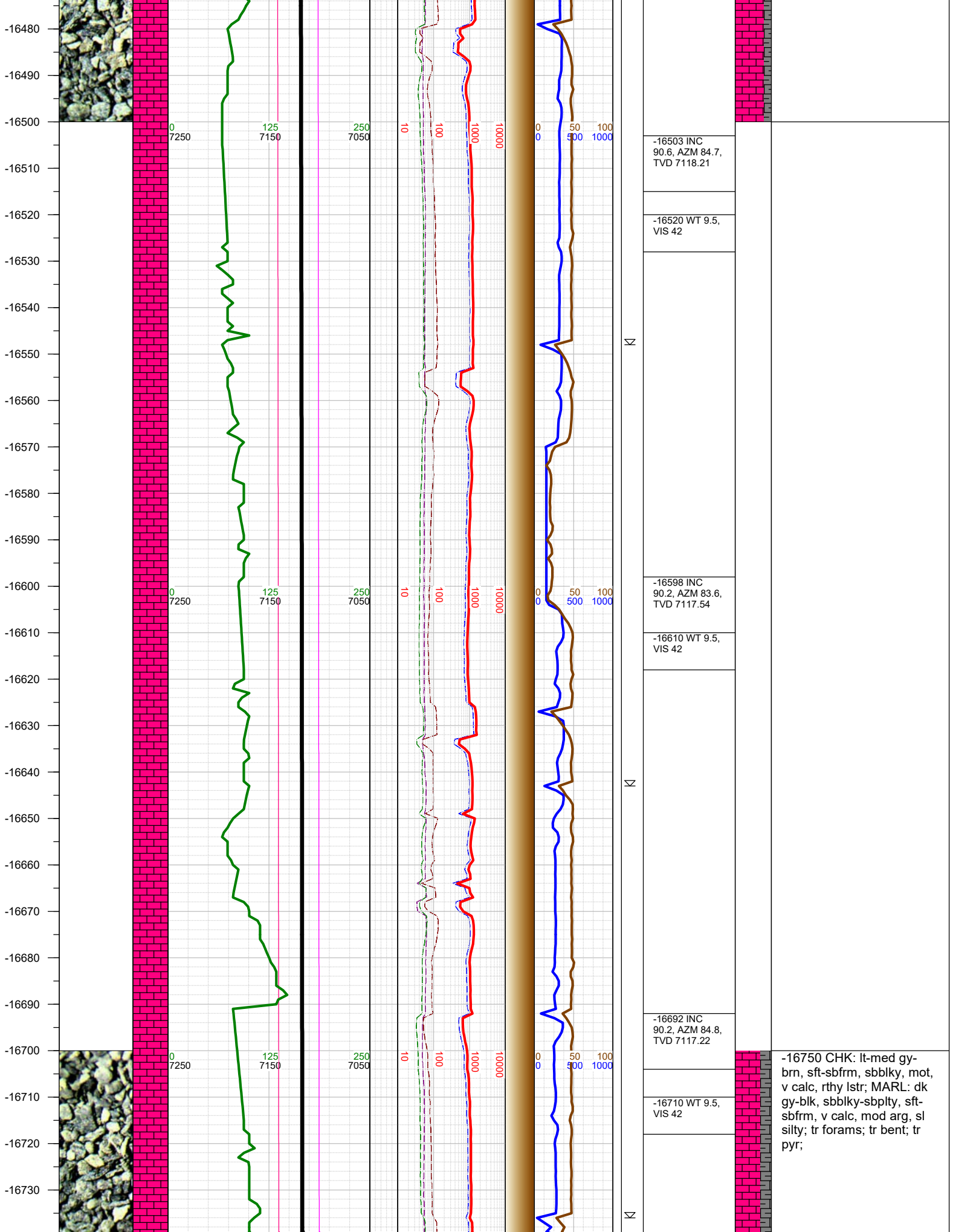


-15500 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr forams; tr bent; tr pyr;









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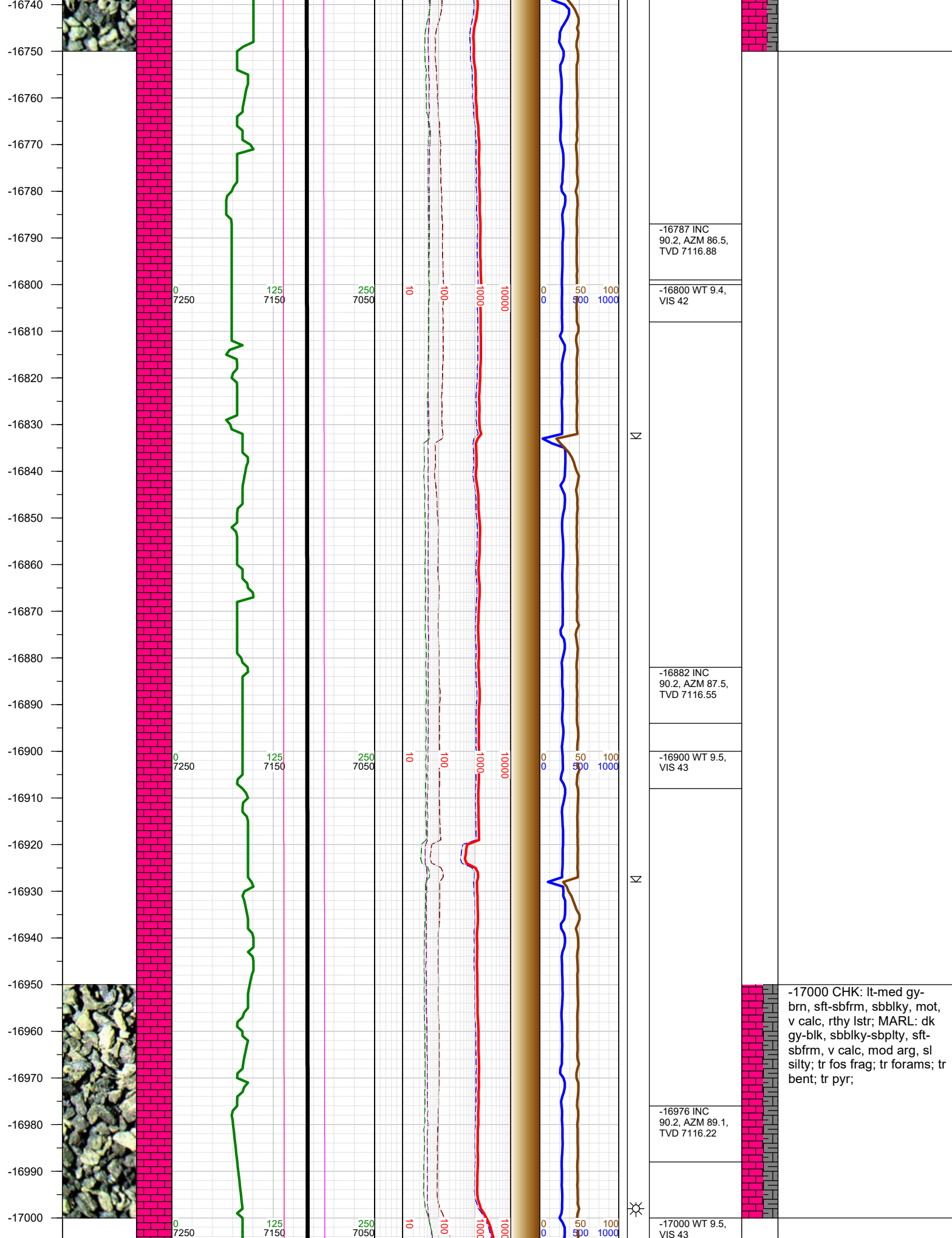
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7250 7150 7050

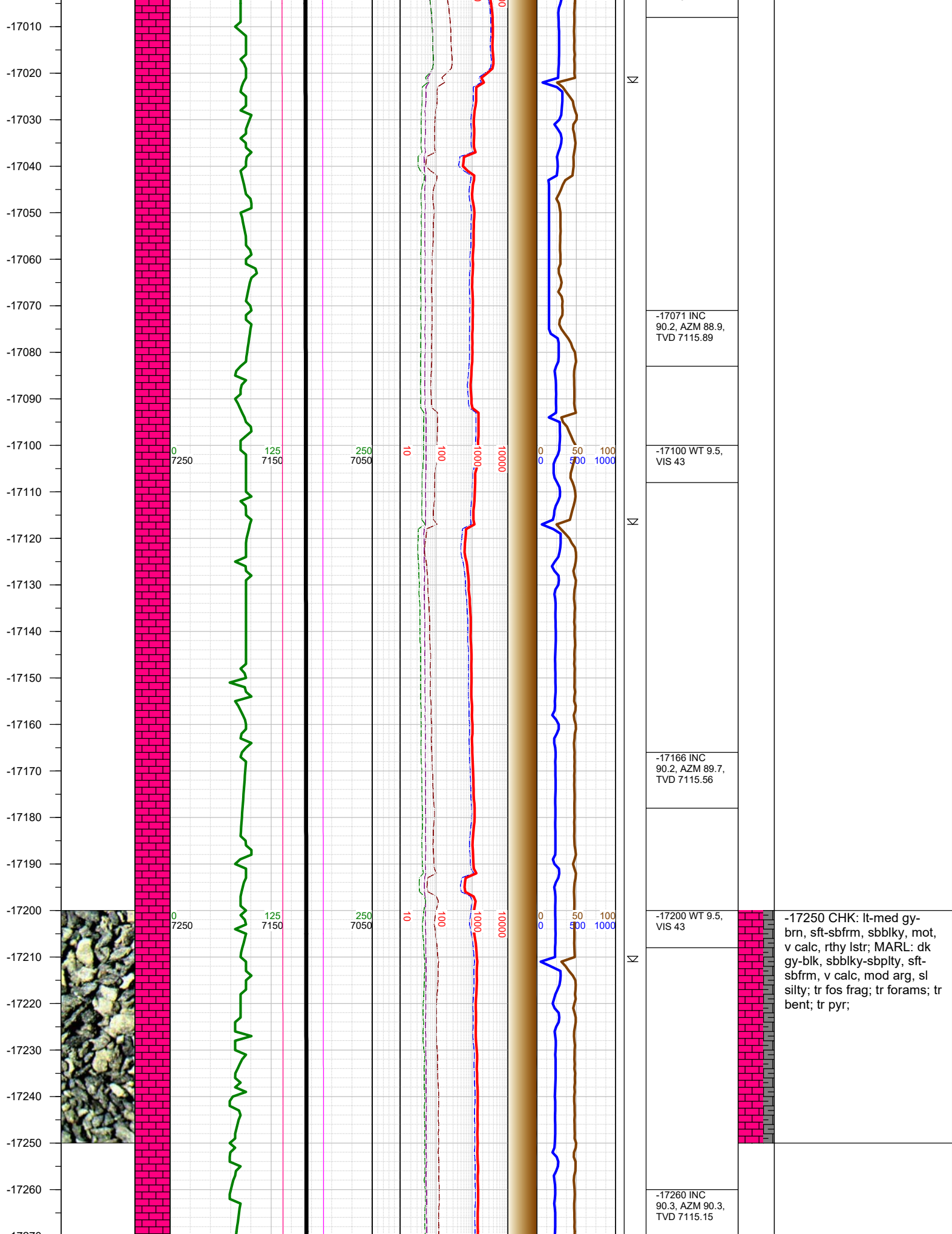
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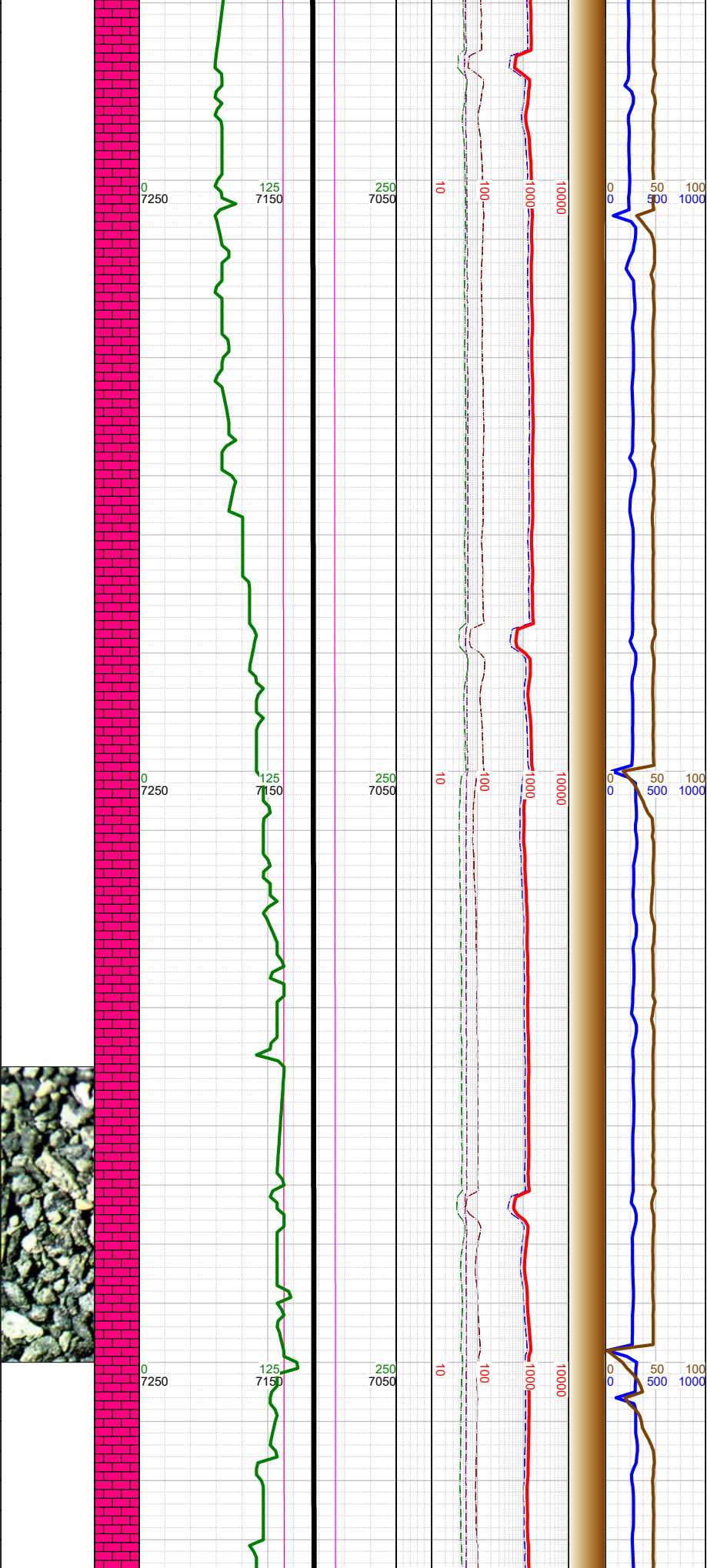
-16503 INC 90.6, AZM 84.7, TVD 7118.21
-16520 WT 9.5, VIS 42
-16598 INC 90.2, AZM 83.6, TVD 7117.54
-16610 WT 9.5, VIS 42
-16692 INC 90.2, AZM 84.8, TVD 7117.22
-16710 WT 9.5, VIS 42

-16750 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 forams; tr bent; tr pyr;

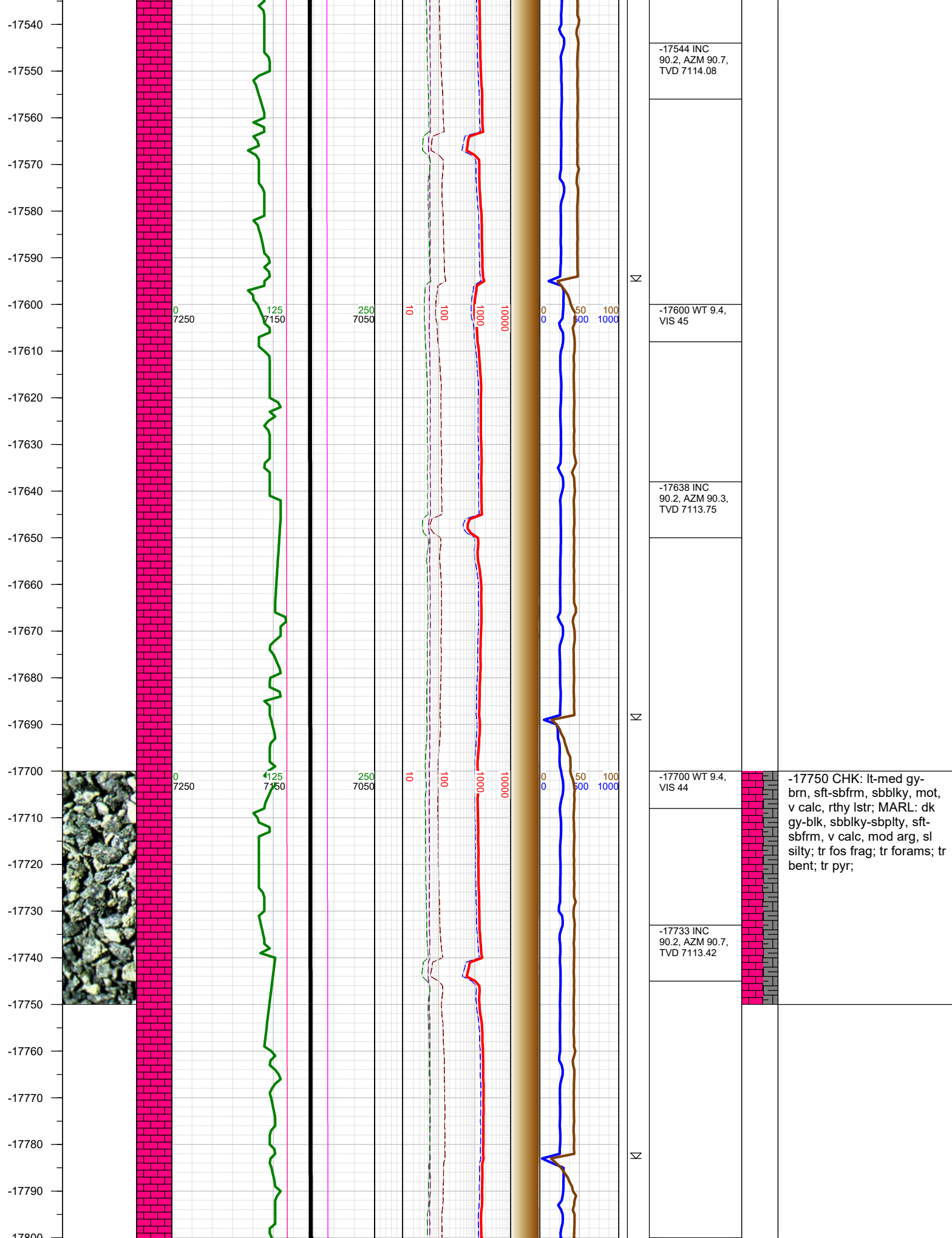


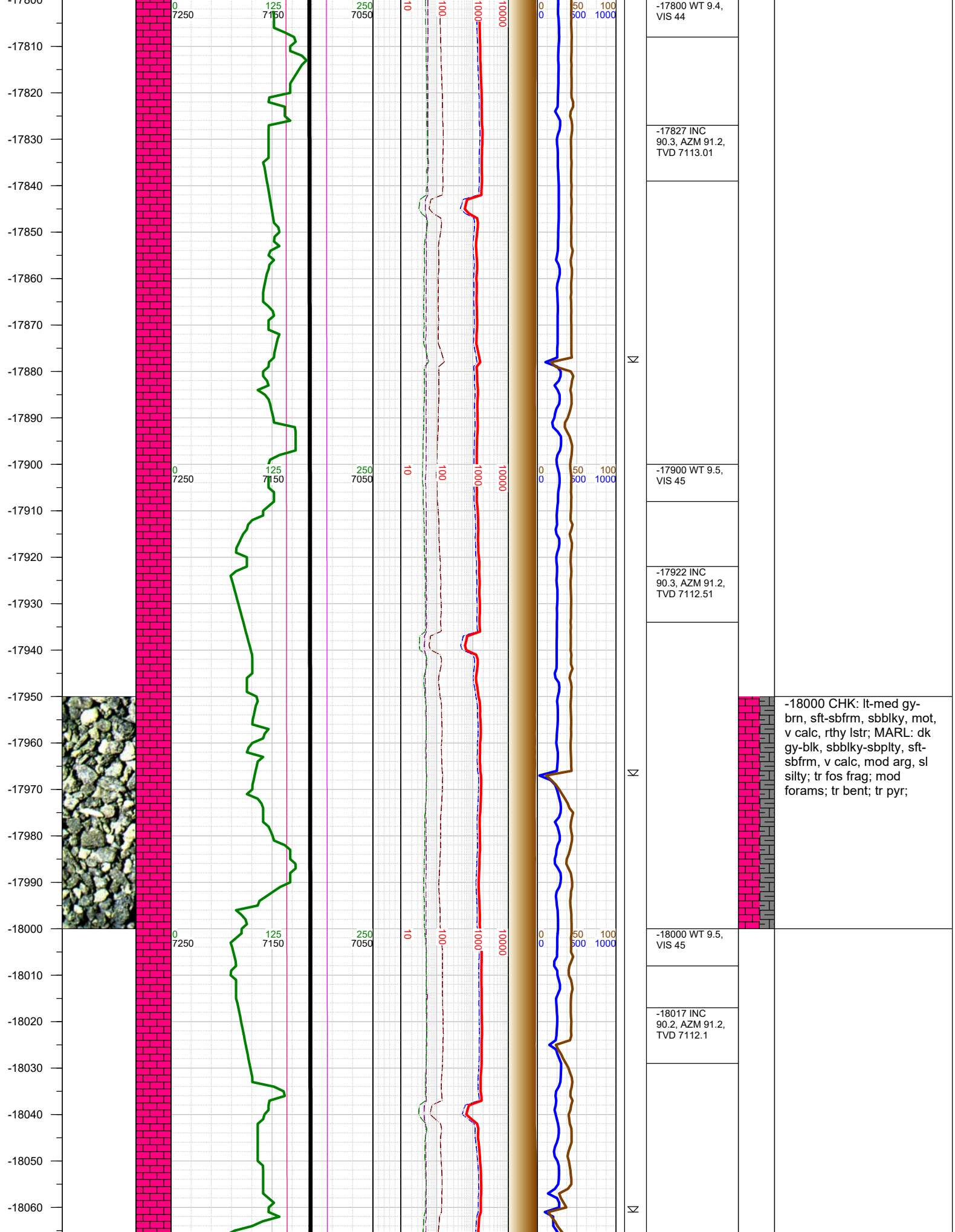


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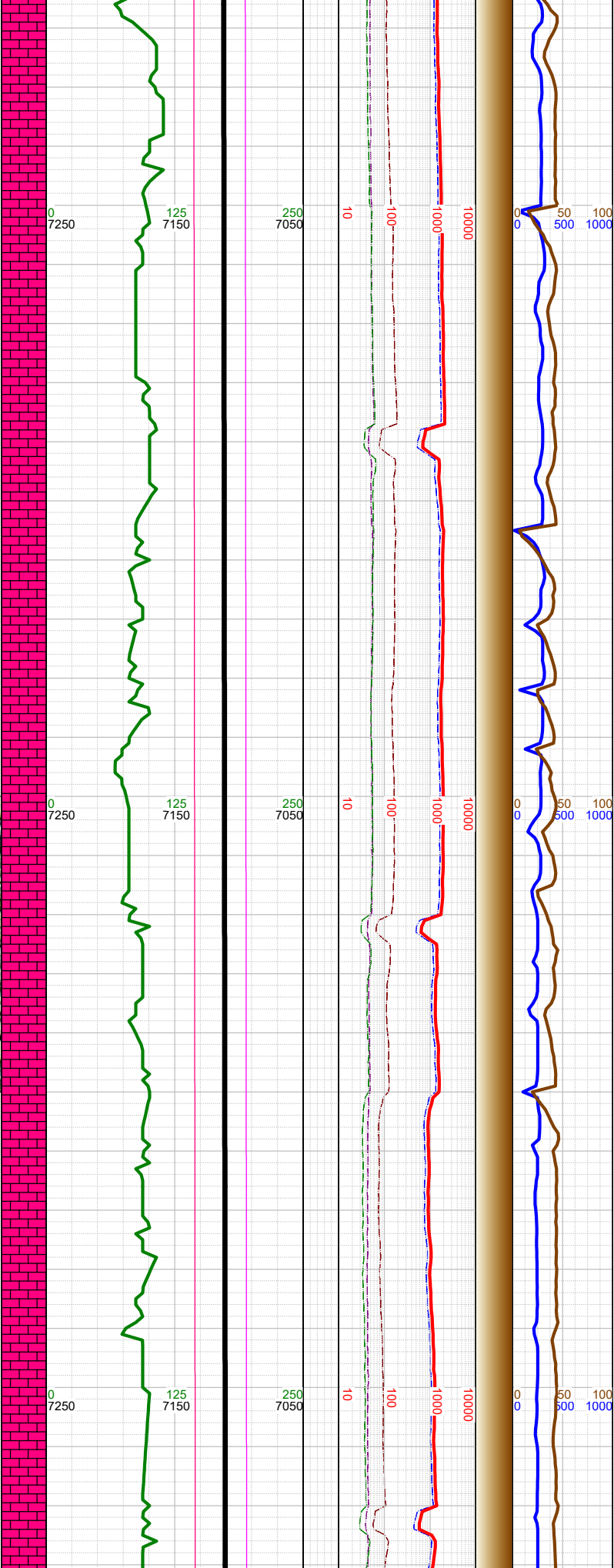
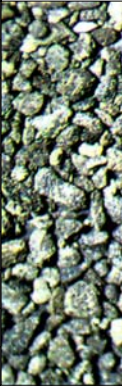


	-17300 WT 9.5, VIS 43	
	-17355 INC 90.2, AZM 91, TVD 7114.74	
	-17400 WT 9.4, VIS 45	
	-17450 INC 90.2, AZM 90.2, TVD 7114.41	-17500 CHK: lt-med gy- brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft- sbfrm, v calc, mod arg, sl silty; tr fos frag; tr forams; tr bent; tr pyr;
	-17500 WT 9.4, VIS 45	



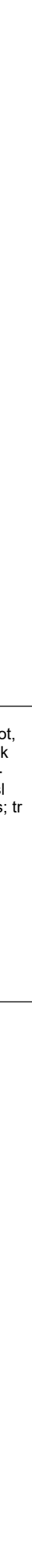
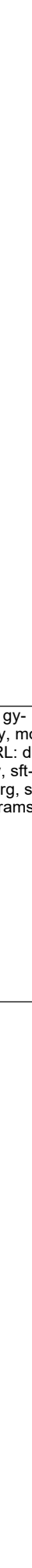
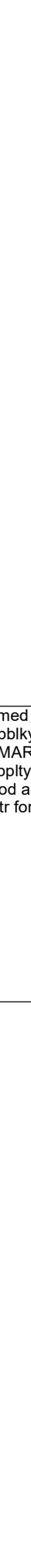
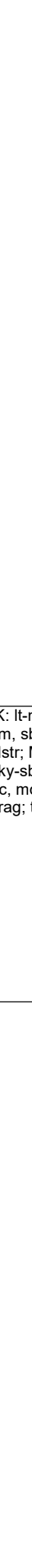
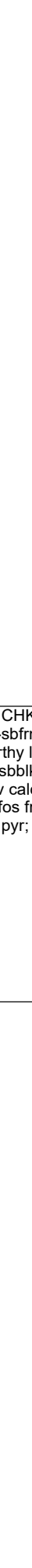
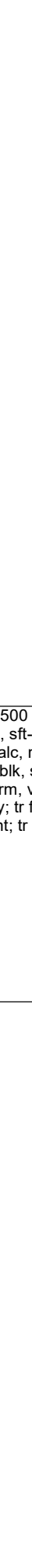
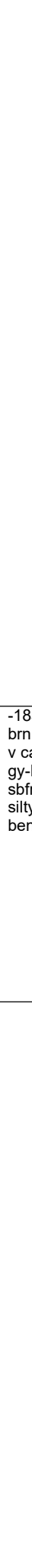
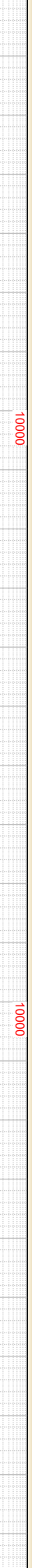
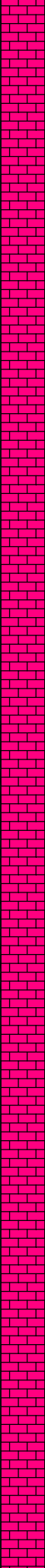
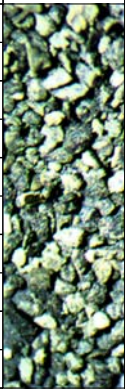


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-18100 WT 9.5, VIS 45	-18112 INC 90.2, AZM 91.6, TVD 7111.76	
-18207 INC 90.3, AZM 91.9, TVD 7111.35	-18220 WT 9.5, VIS 45	-18250 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr fos frag; tr forams; tr bent; tr pyr;
-18301 INC 90.3, AZM 91.8, TVD 7110.86	-18320 WT 9.5, VIS 44	

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-18397 INC
90.1, AZM 93,
TVD 7110.52

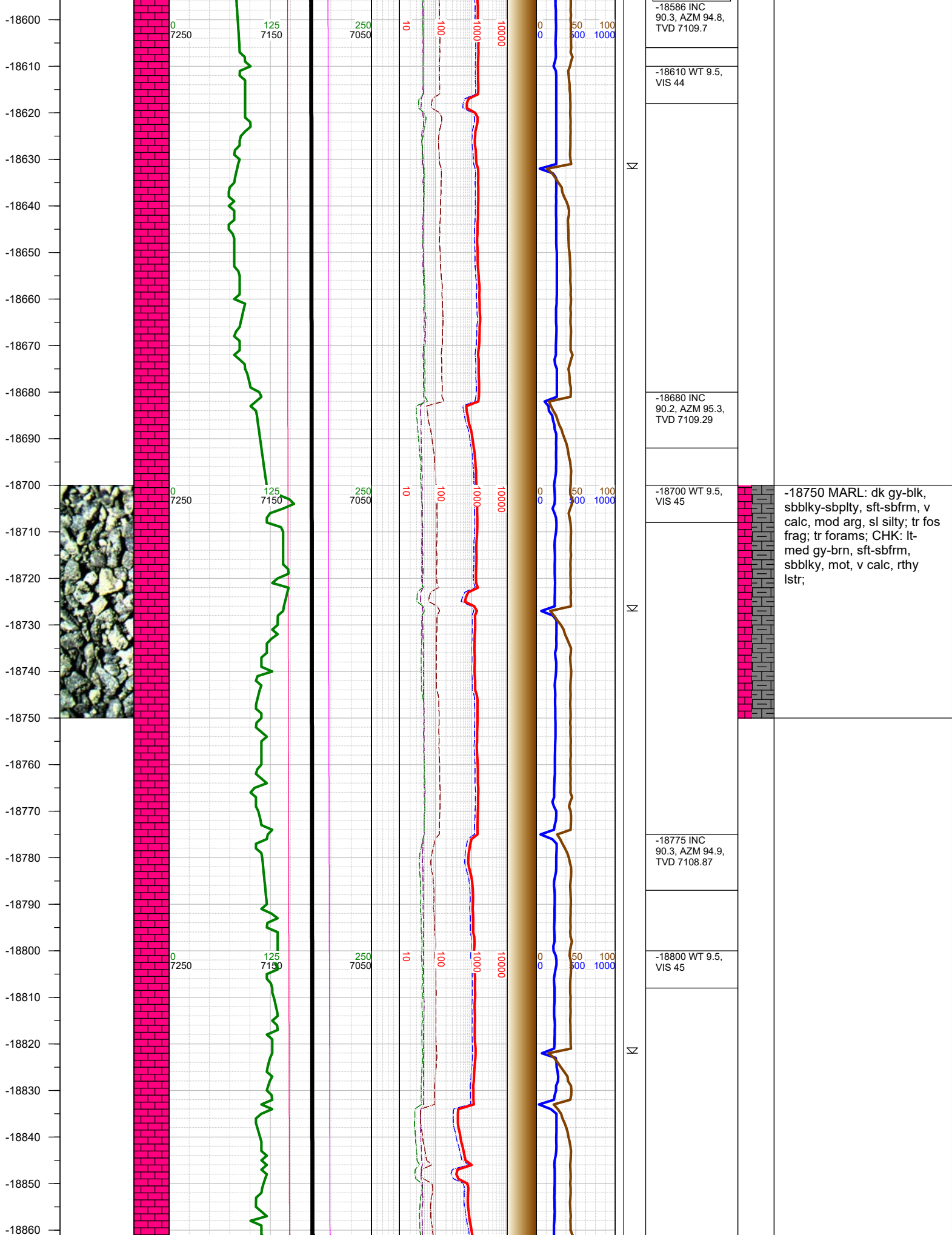
-18410 WT 9.5,
VIS 44

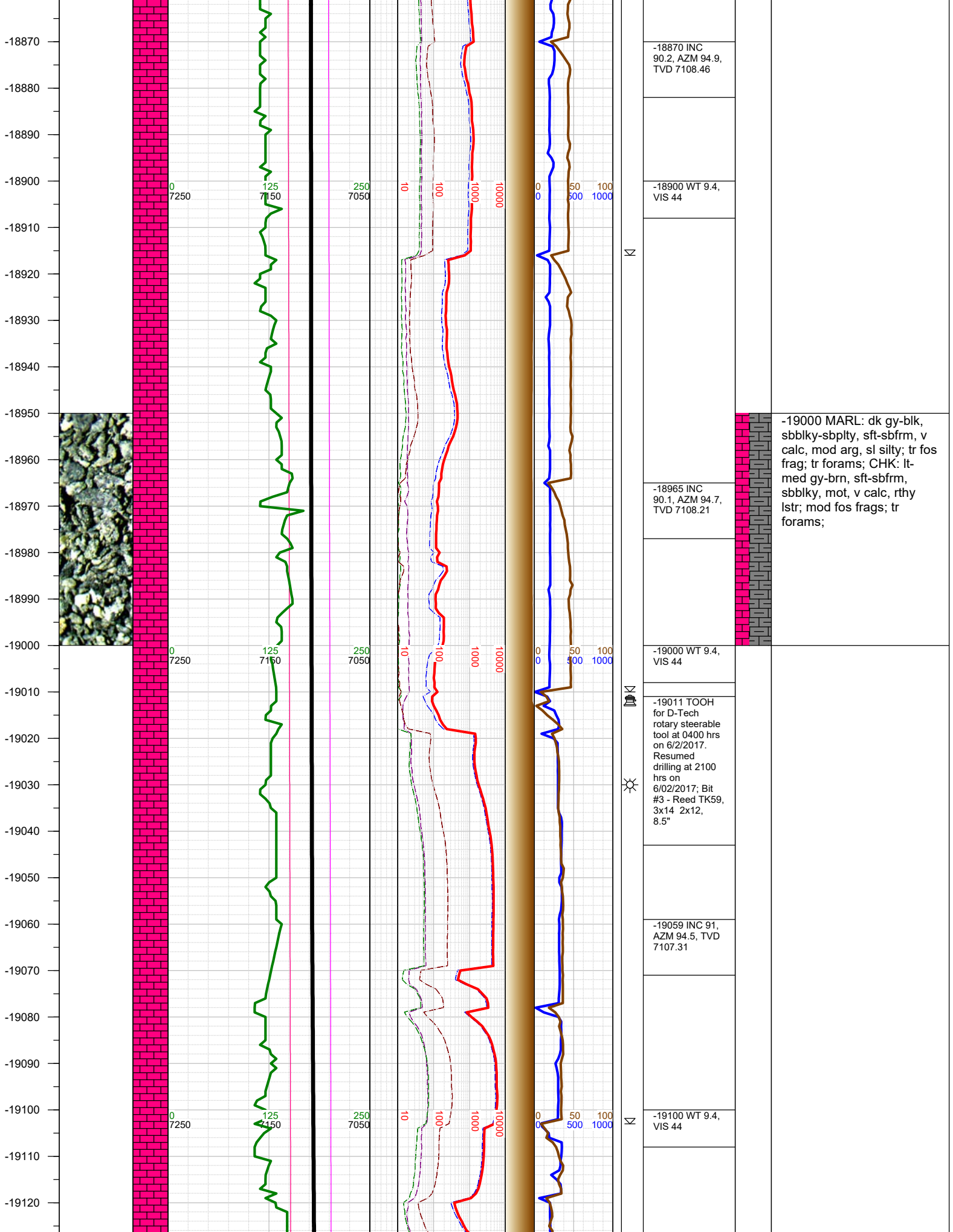
-18491 INC
90.3, AZM 94.5,
TVD 7110.19

-18510 WT 9.5,
VIS 44

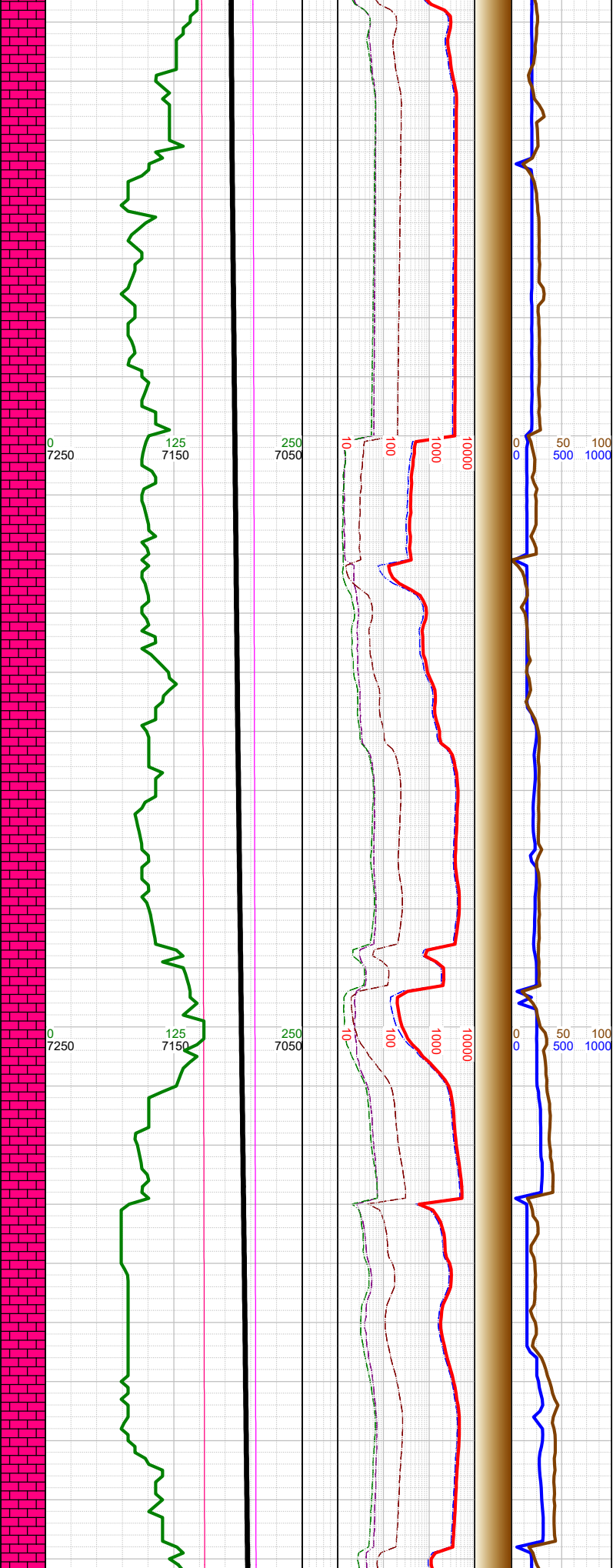
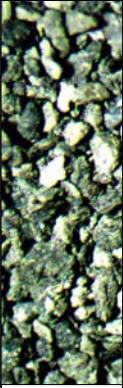
-18586 0000 hrs
on 6/2/2017

-18500 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 frag; tr forams; tr
bent; tr pyr;

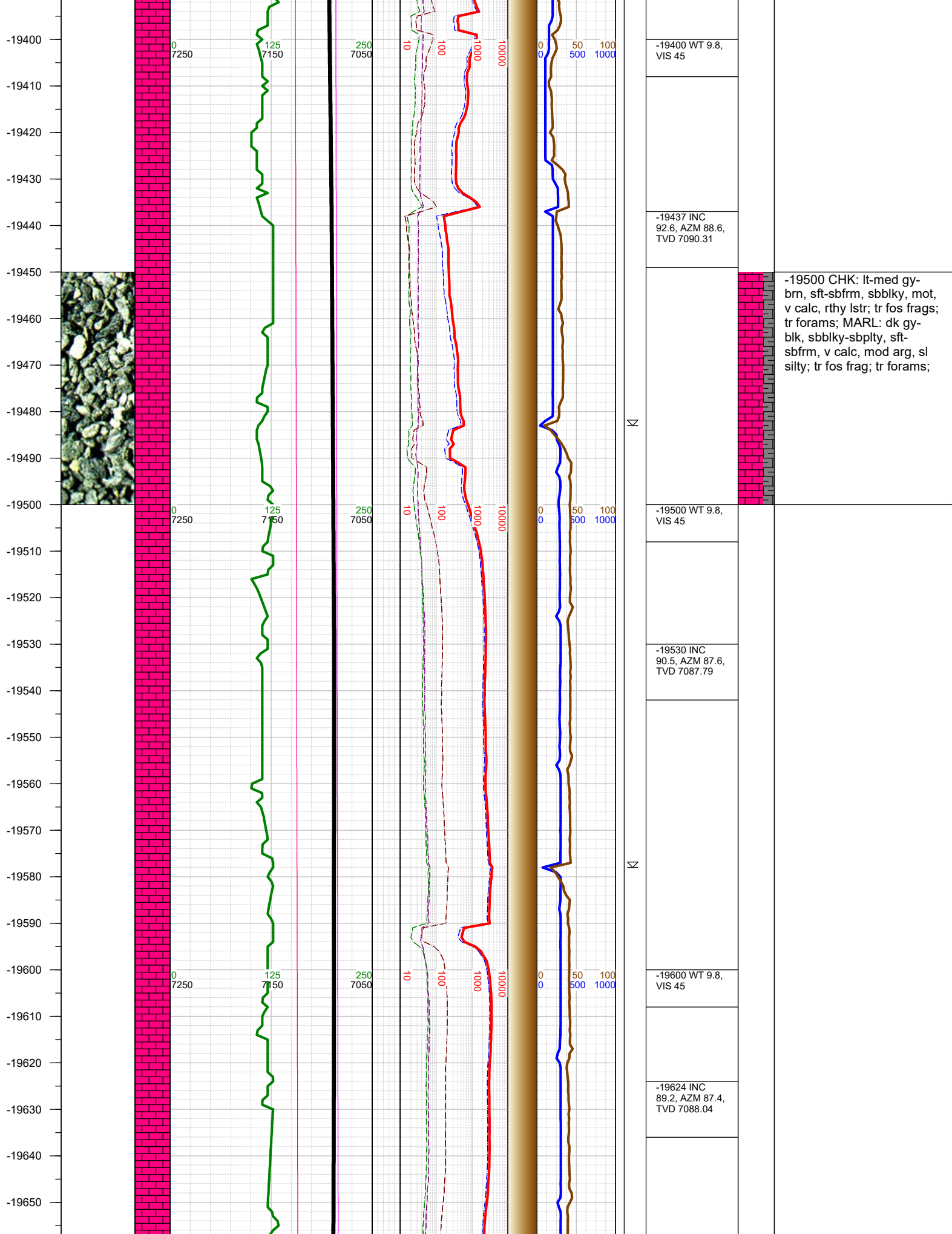




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N	-19153 INC 92.1, AZM 94.6, TVD 7104.76	
	-19200 WT 9.7, VIS 46	-19250 CHK: lt-med gy- brn, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; mod fos frags; tr forams; MARL: dk gy-blk, sbbkly-sbplty, sft- sbfrm, v calc, mod arg, sl silty; tr fos frag; tr forams;
A	-19219 TOOH for D-Tech rotary steerable tool at 2330 hrs on 6/2/2017. Resumed drilling at 1855 hrs on 6/3/2017.	
	-19219 0000 hrs on 6/3/2017	
	-19247 INC 93.1, AZM 93.9, TVD 7100.5	
N	-19300 WT 9.8, VIS 44	
	-19342 INC 93.3, AZM 91.2, TVD 7095.2	
N		



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-19850
-19860
-19870
-19880
-19890
-19900
-19910
-19920



0
7250

125
7150

250
7050

10
10000

100
10000

1000
10000

0
0

50
500

100
1000

-19700 WT 9.8,
VIS 45

-19719 INC
89.2, AZM 87.6,
TVD 7089.36

-19750 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; tr fos frags;
tr forams; tr pyr; tr bent;
MARL: dk gy-blk, sbblky-
sbply, sft-sbfrm, v calc,
mod arg, sl silty; tr fos frag;
tr forams;

0
7250

125
7150

250
7050

10
10000

100
10000

1000
10000

0
0

50
500

100
1000

-19800 WT 9.8,
VIS 45

-19813 INC
89.3, AZM 87.5,
TVD 7090.59

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7250

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7150

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7050

10
10000

100
10000

1000
10000

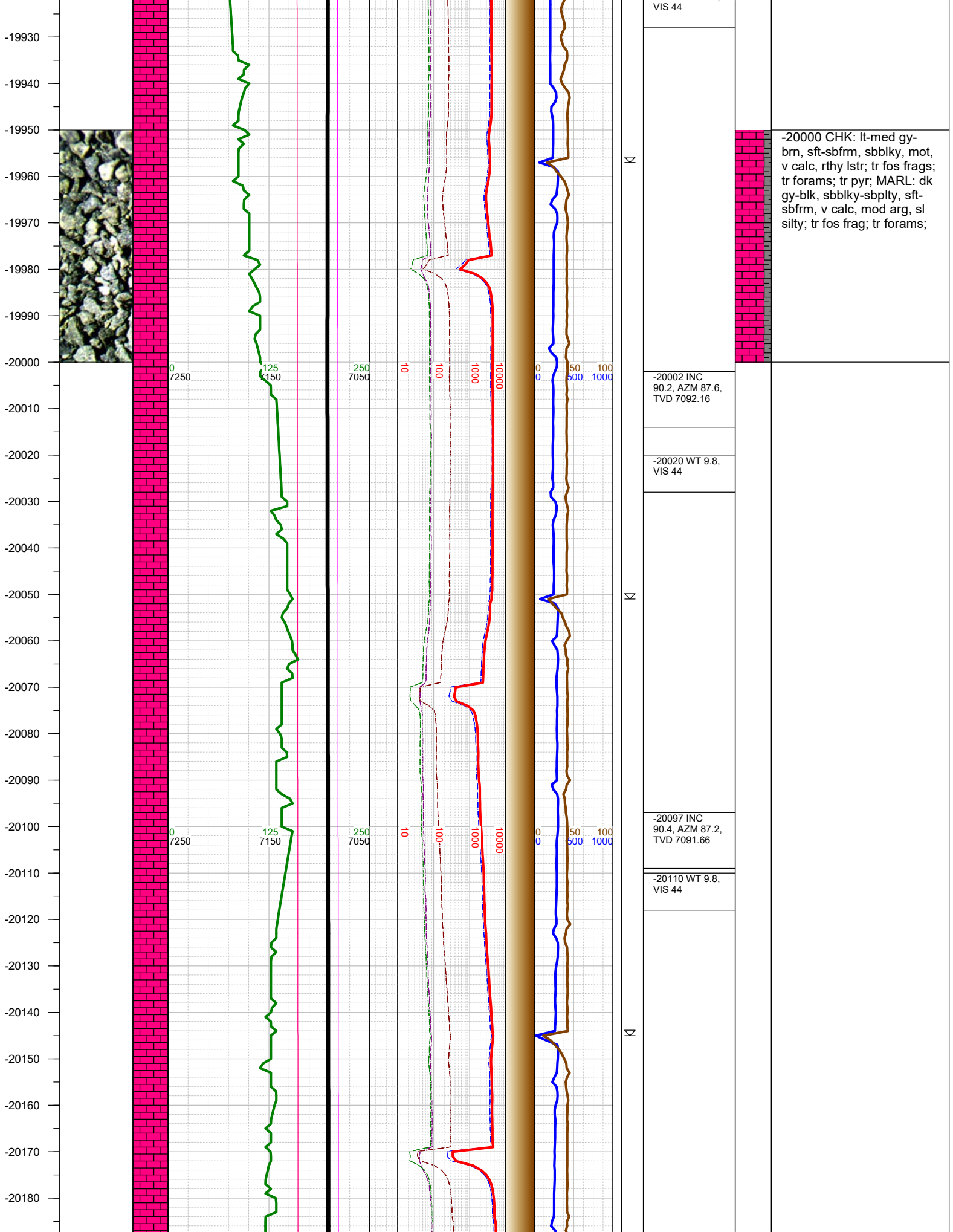
0
0

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500

100
1000

-19907 INC
89.3, AZM 87.3,
TVD 7091.74

-19920 WT 9.8,



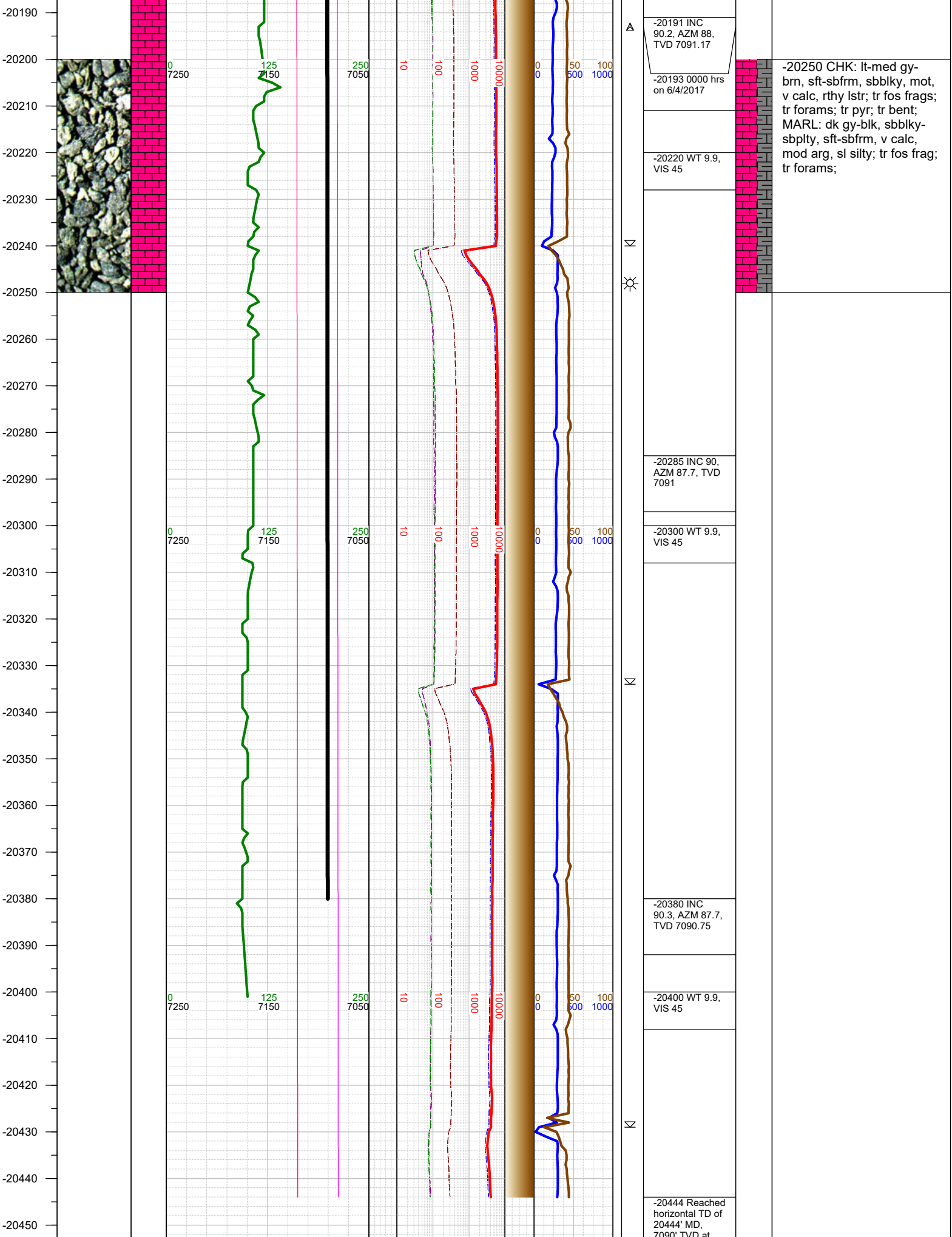
-20000 CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr fos frags; tr forams; tr pyr; MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, v calc, mod arg, sl silty; tr fos frag; tr forams;

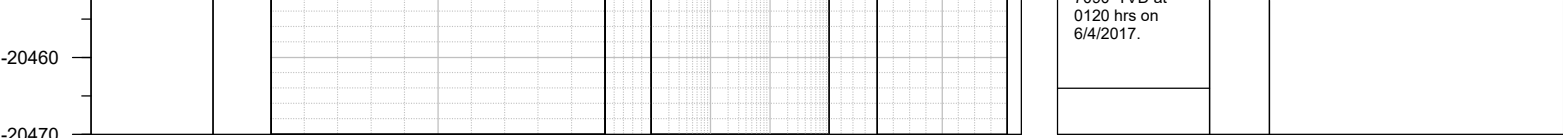
-20002 INC
90.2, AZM 87.6,
TVD 7092.16

-20020 WT 9.8,
VIS 44

-20097 INC
90.4, AZM 87.2,
TVD 7091.66

-20110 WT 9.8,
VIS 44





TOTAL DEPTH = 20444'

Thank you for using Earth Science Agency