

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **VT Glenmere 3-16-18**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 901

API #: 05-123-44423

LAT/LONG: 40.40133, -104.65646

SURFACE HOLE: SWNW S15-T5N-R65W, 1879' FNL, 673' FWL

BOTTOM HOLE: S18-T5N-R65W, 330' FNL, 460' FWL

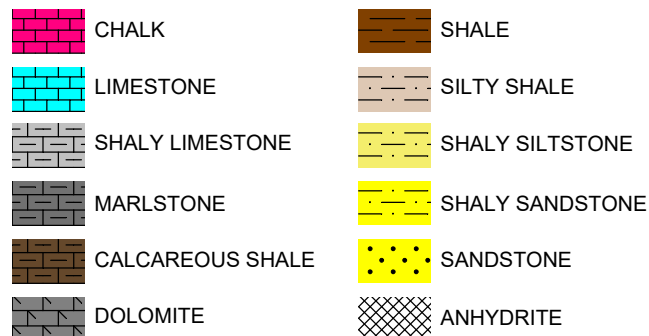


Earth Science Agency, LLC

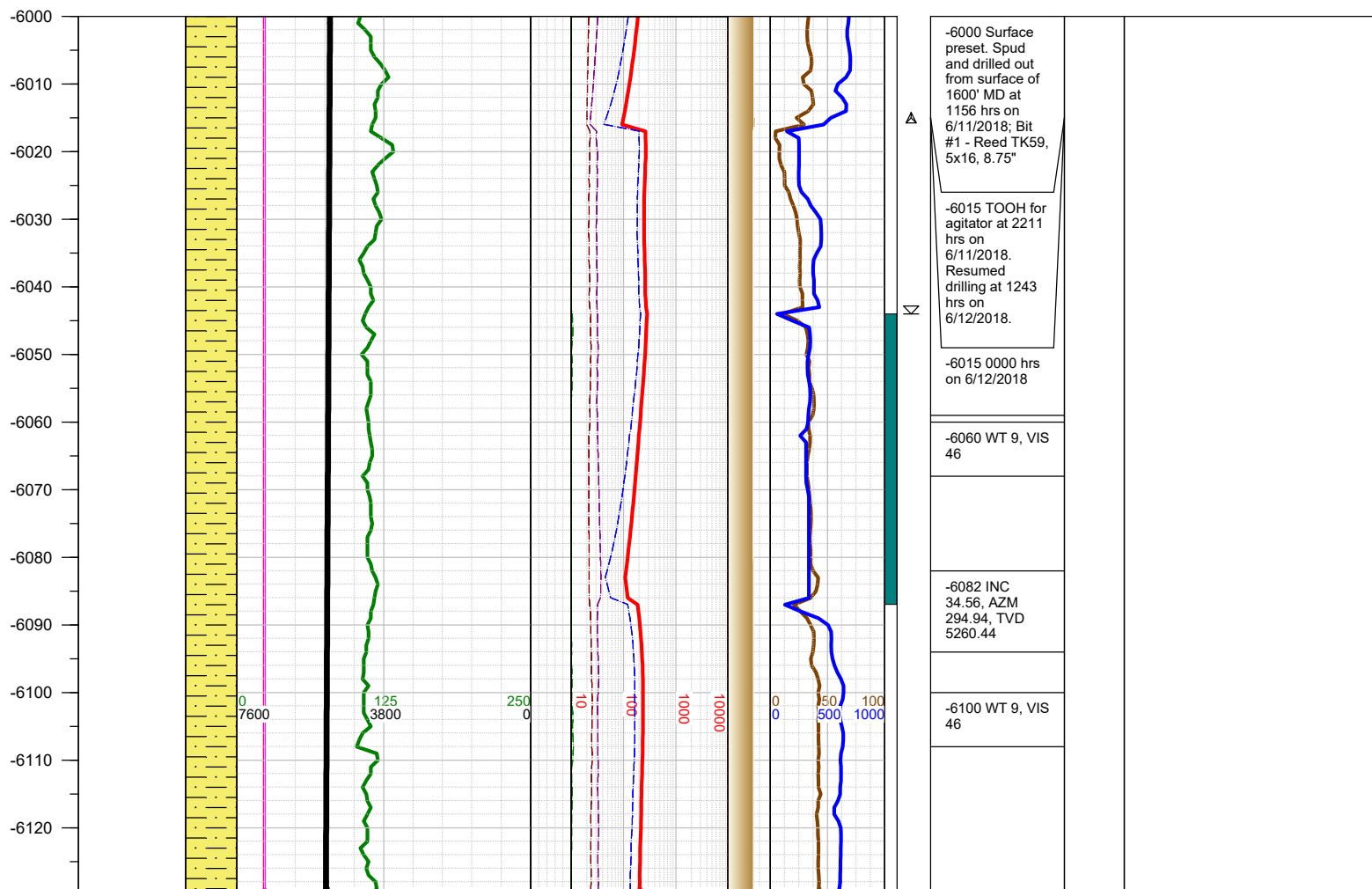
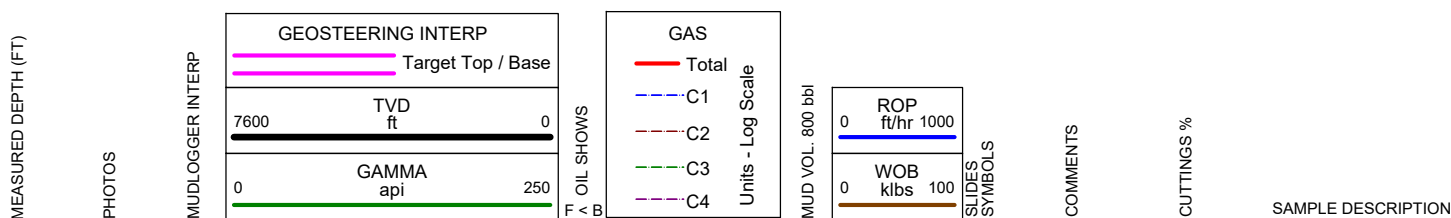
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4647'
KELLY BUSHING: 4676'
DRILLING FLUID: OBM
TVD VS. MD: 6852' / 20560'
SPUD DATE: June 11, 2018
TD DATE: June 15, 2018

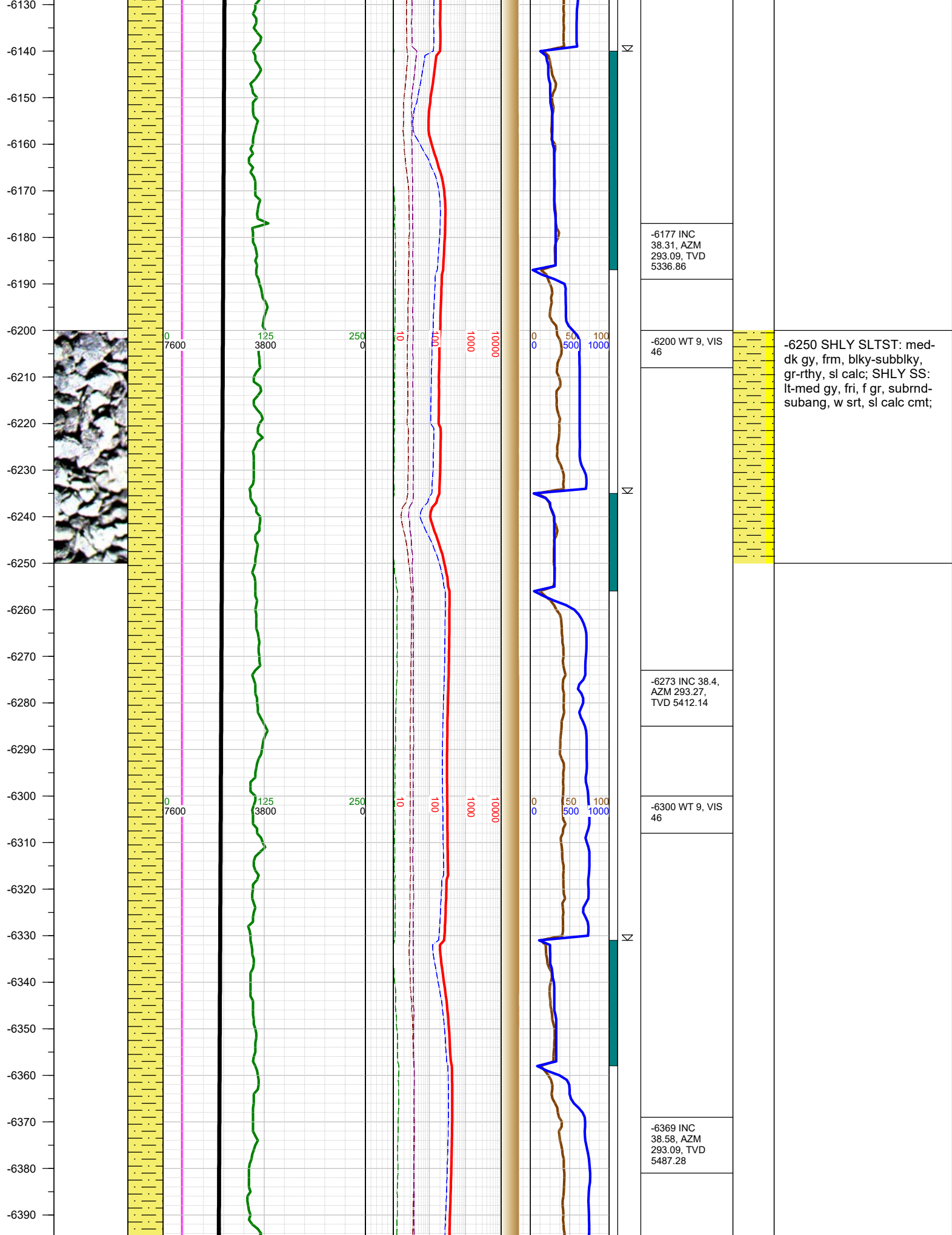
DEPTHS LOGGED: 6000' - 20560'
DATES LOGGED: June 11, 2018 - June 15, 2018
GEOLOGISTS: Blake Eatherton, Dan Jacobs
SCALE: 5" = 100'

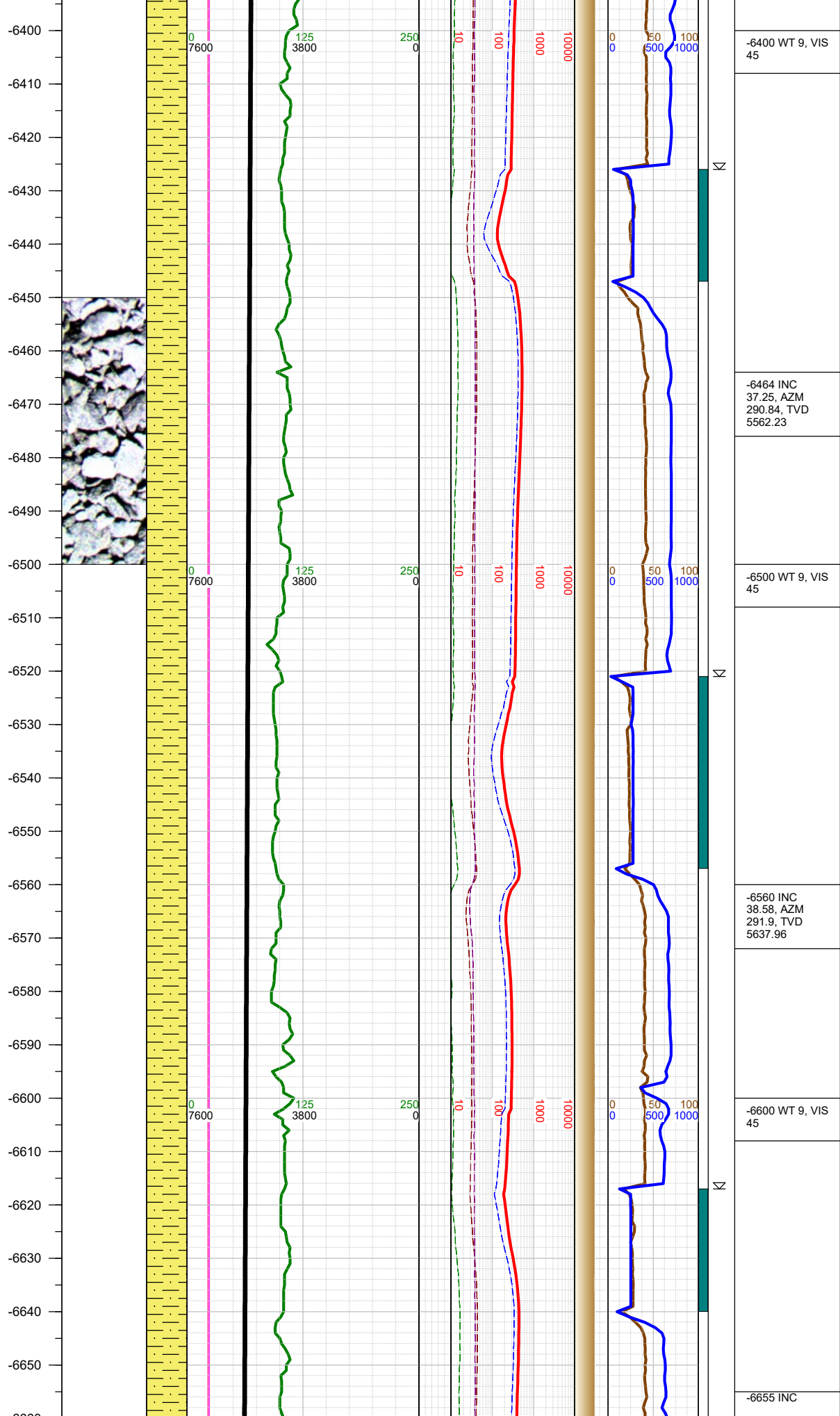
LEGEND



FORMATION \approx CONNECTION Δ MIDNIGHT NEW BIT GAS SHOW FAULT

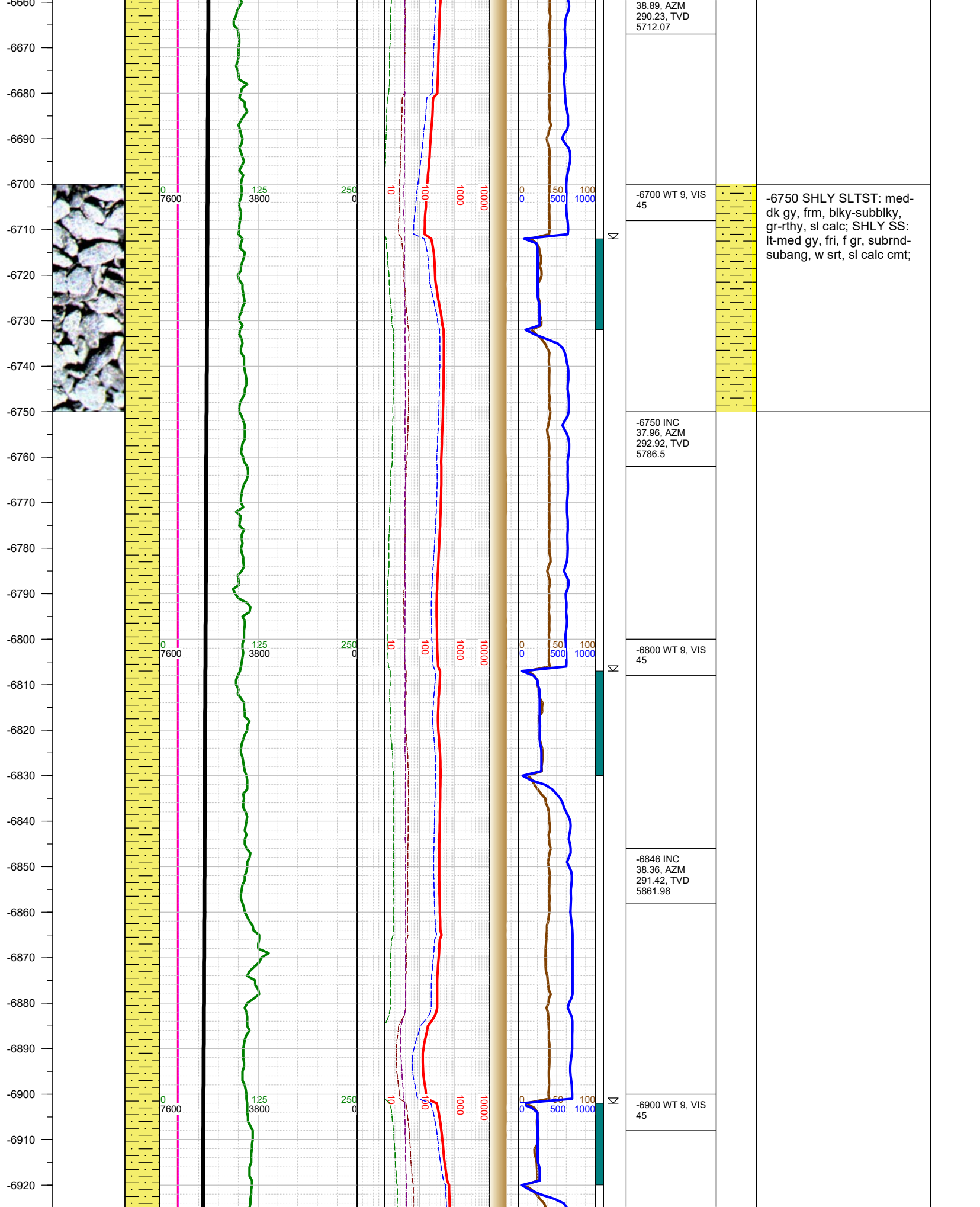


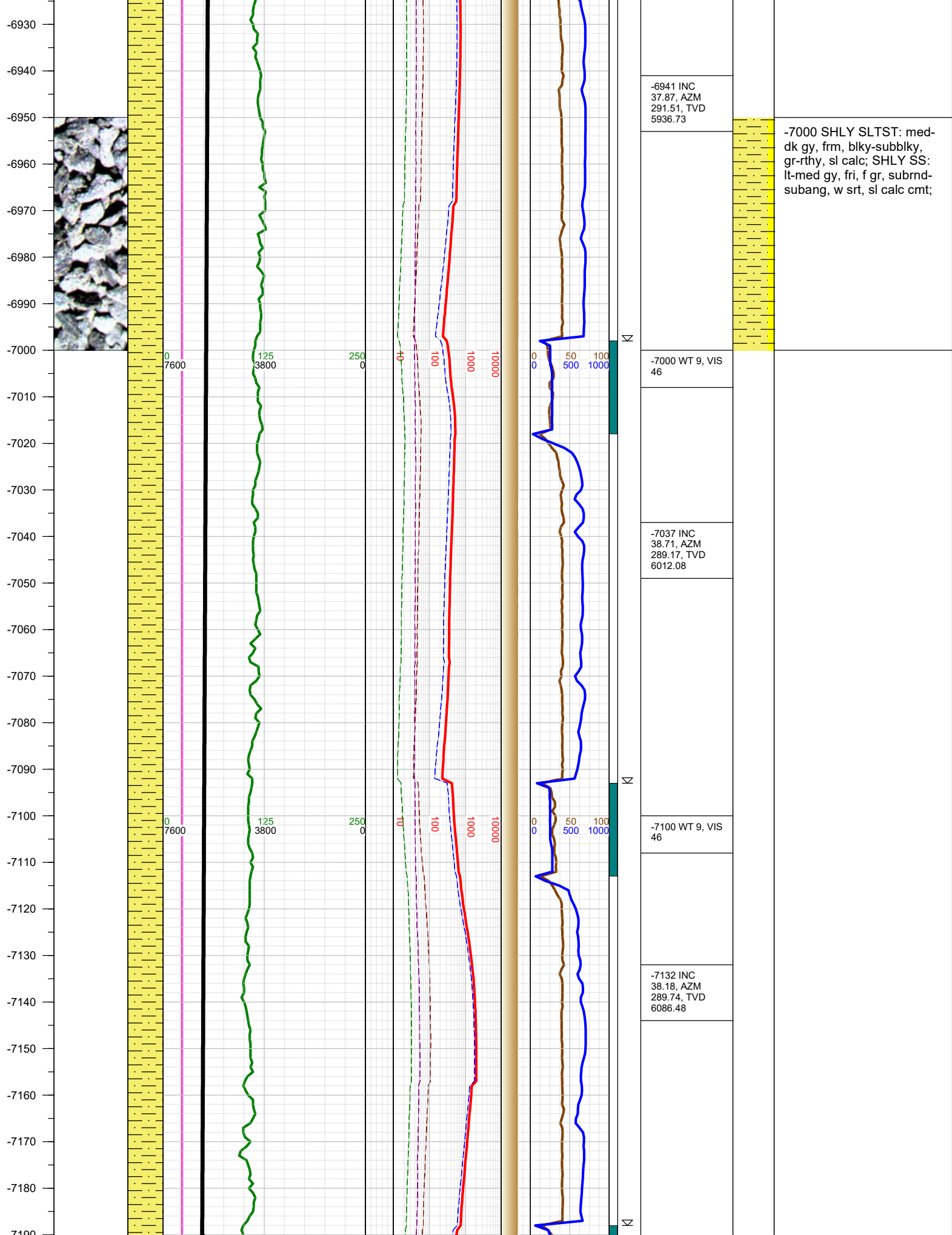


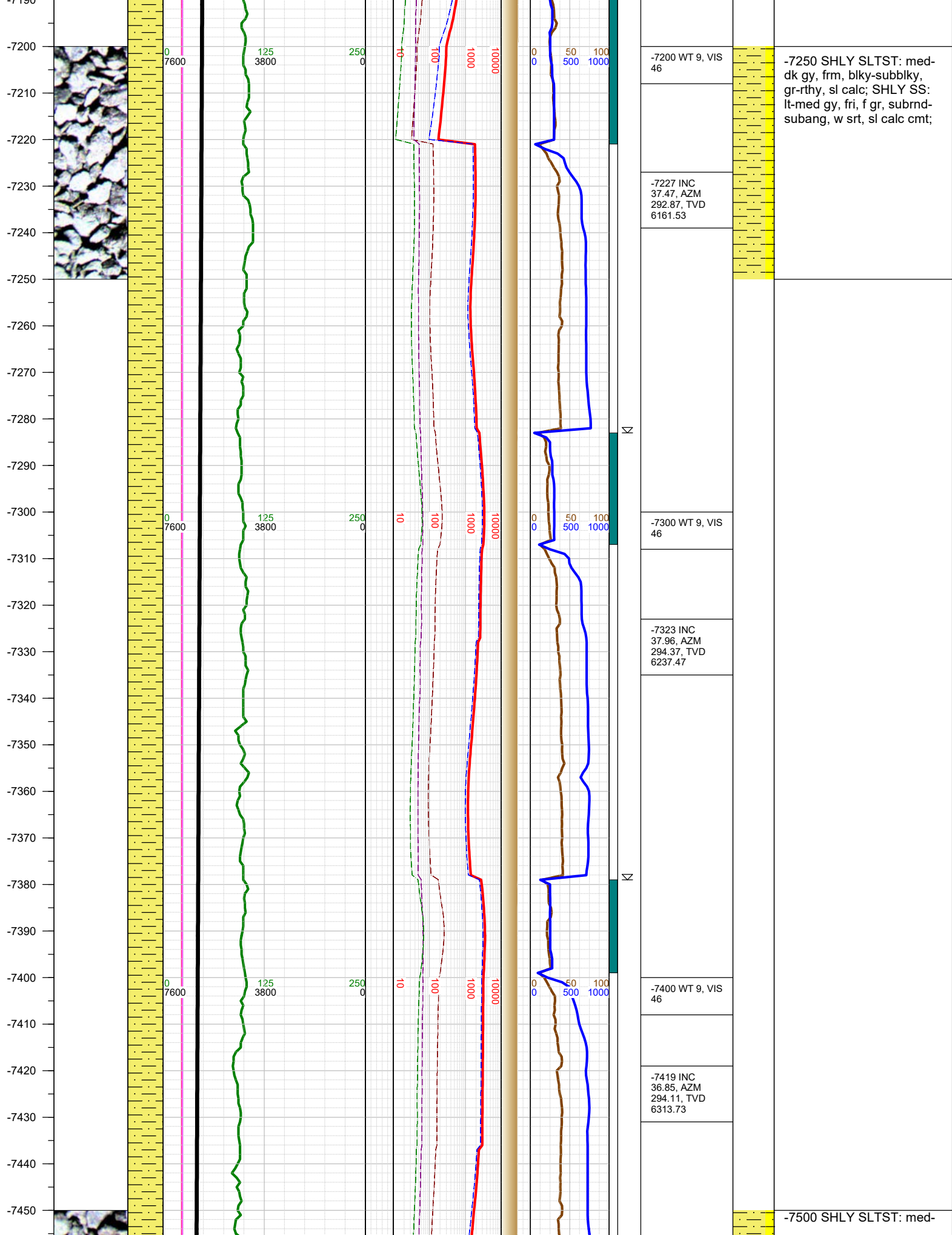


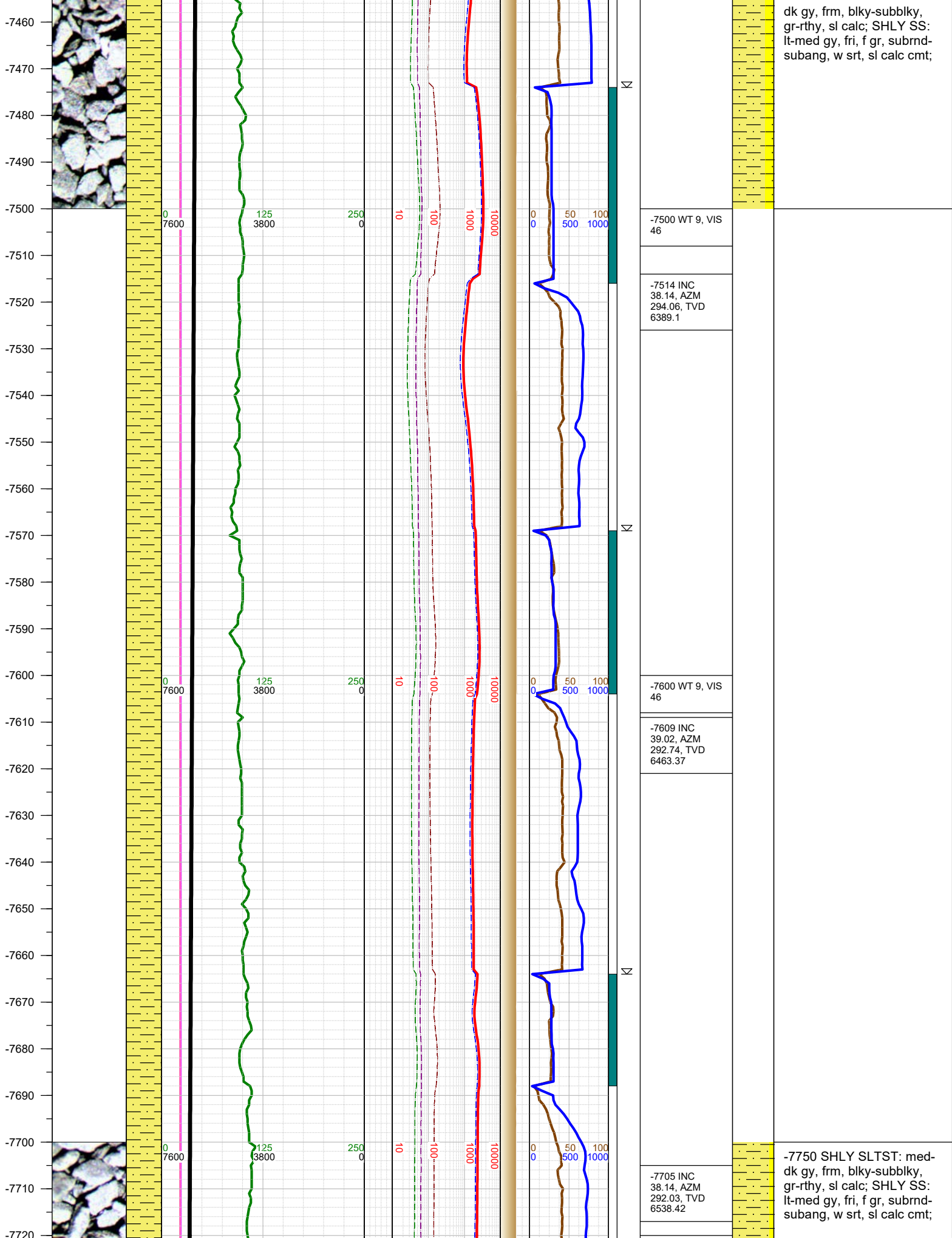
-6500 SHLY SLTST: med-
dk gy, frm, blkly-subblky,
gr-rthy, sl calc; SHLY SS:
lt-med gy, fri, f gr, subrnd-
subang, w srt, sl calc cmt;

-6655 INC



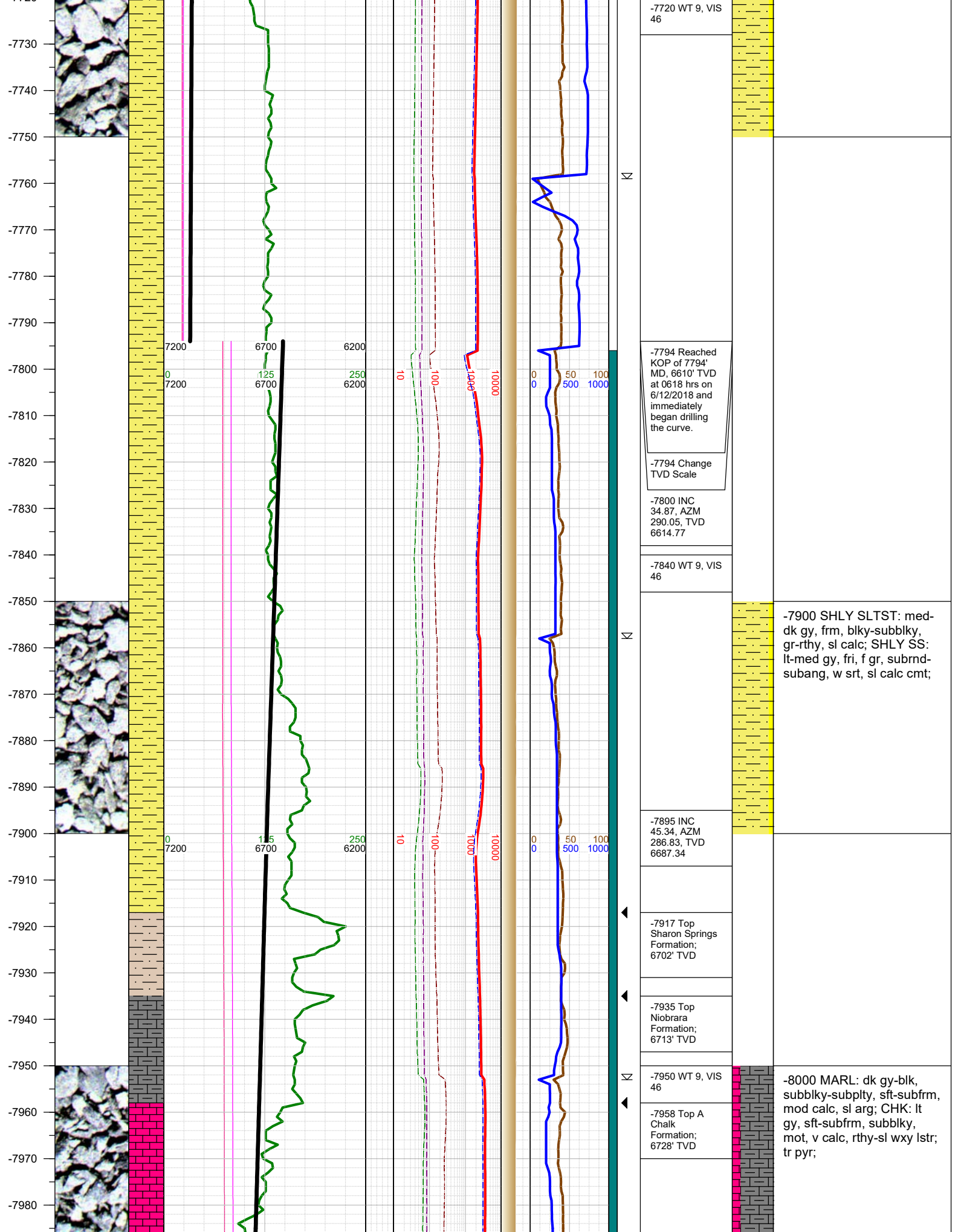


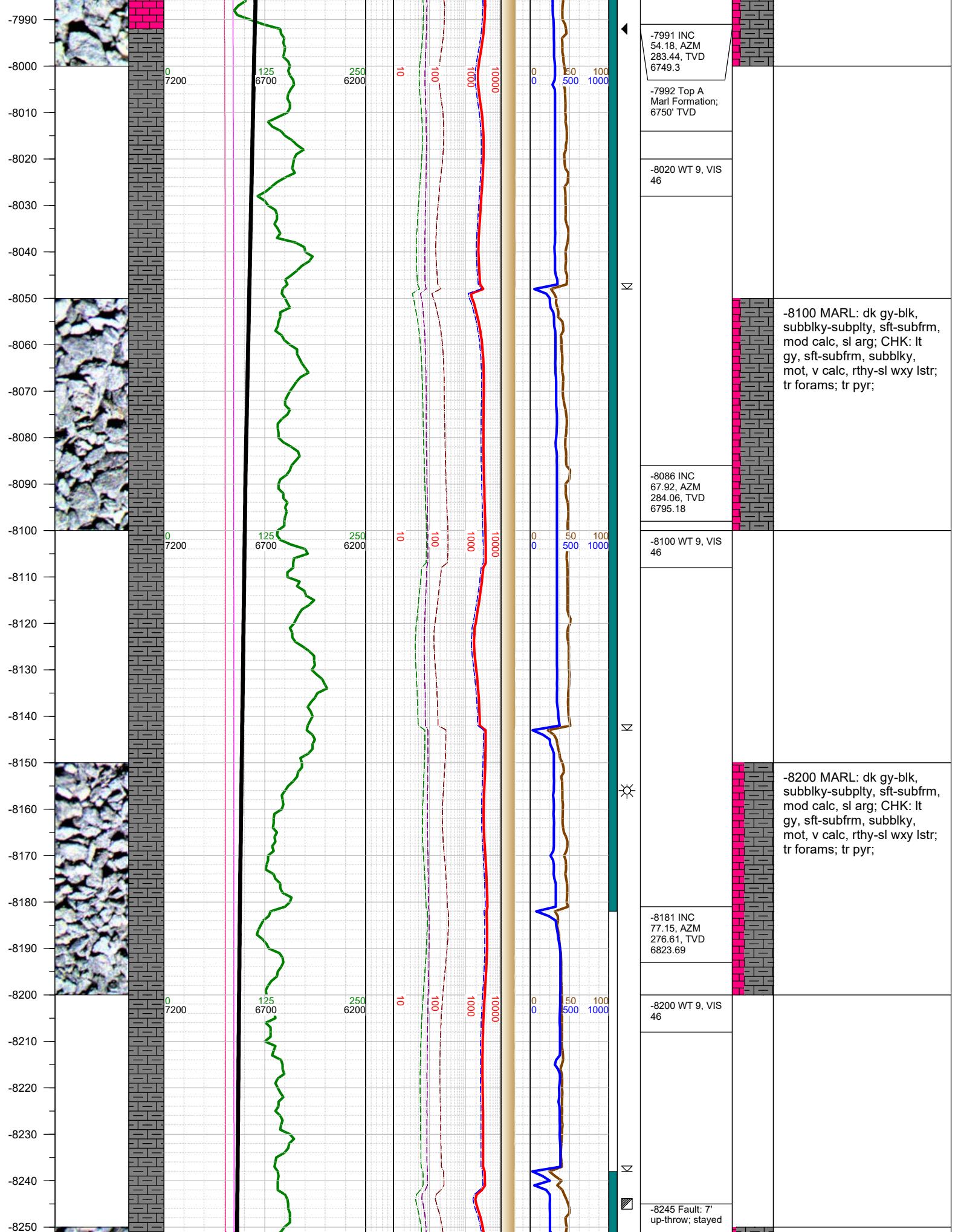


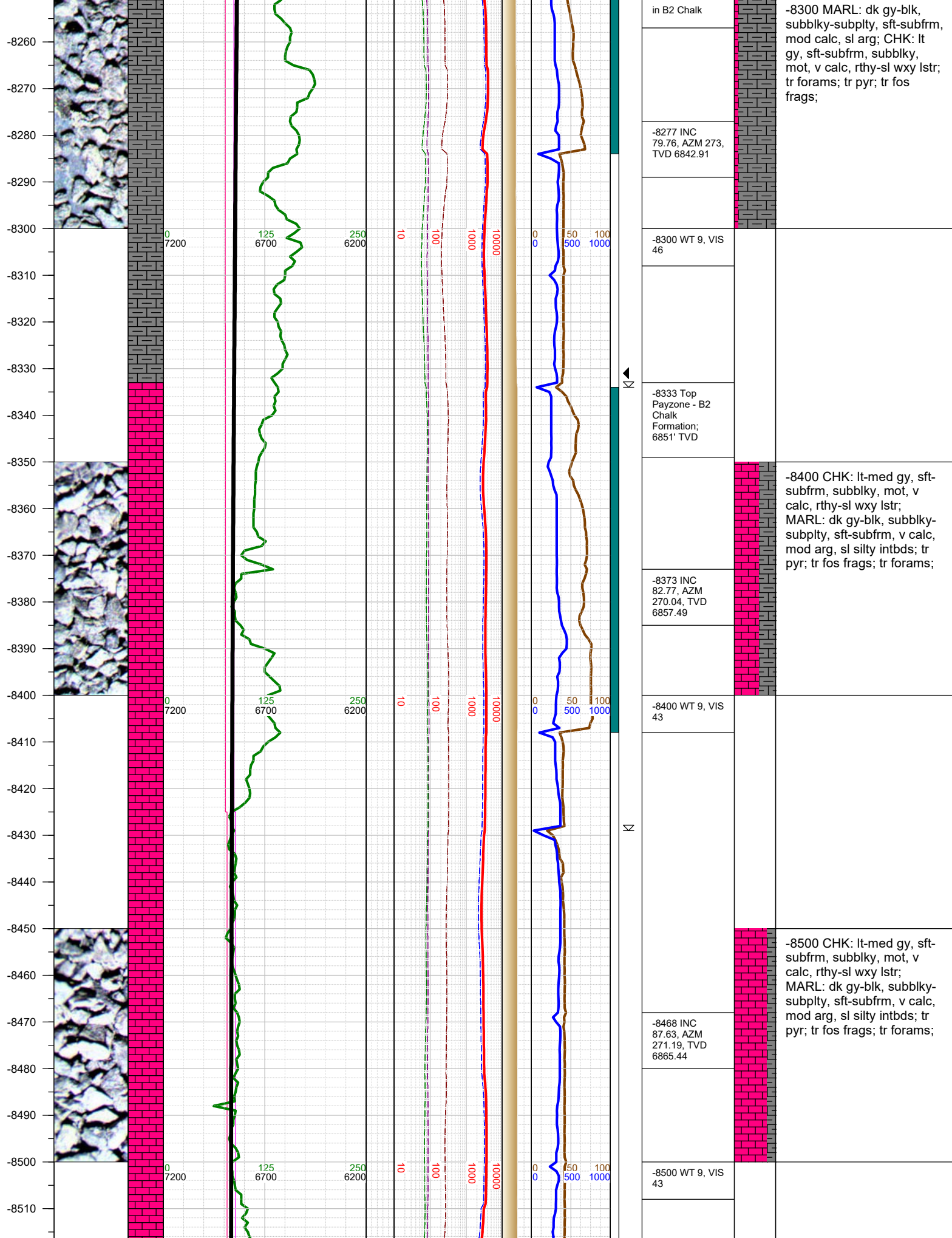


dk gy, frm, blkly-subblky,
gr-rthy, sl calc; SHLY SS:
lt-med gy, fri, f gr, subrnd-
subang, w srt, sl calc cmt;

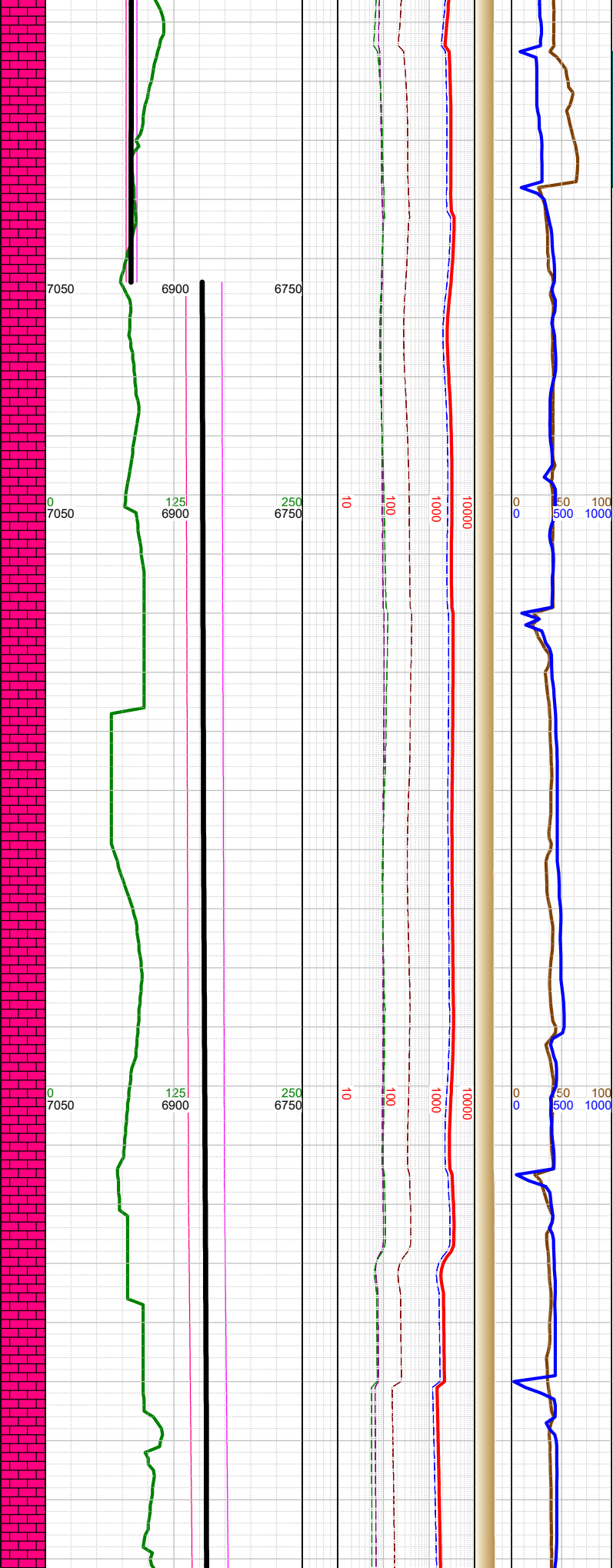
-7750 SHLY SLTST: med-
dk gy, frm, blkly-subblky,
gr-rthy, sl calc; SHLY SS:
lt-med gy, fri, f gr, subrnd-
subang, w srt, sl calc cmt;







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-8564 Reached LP of 8564' MD, 6867' TVD at 0953 hrs on 6/12/2018 and immediately began drilling the lateral.

-8564 Change TVD Scale

-8564 INC 90.5, AZM 269.69, TVD 6867.01

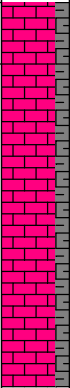
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-8610 WT 9, VIS 43

-8659 INC 91.38, AZM 268.06, TVD 6865.45

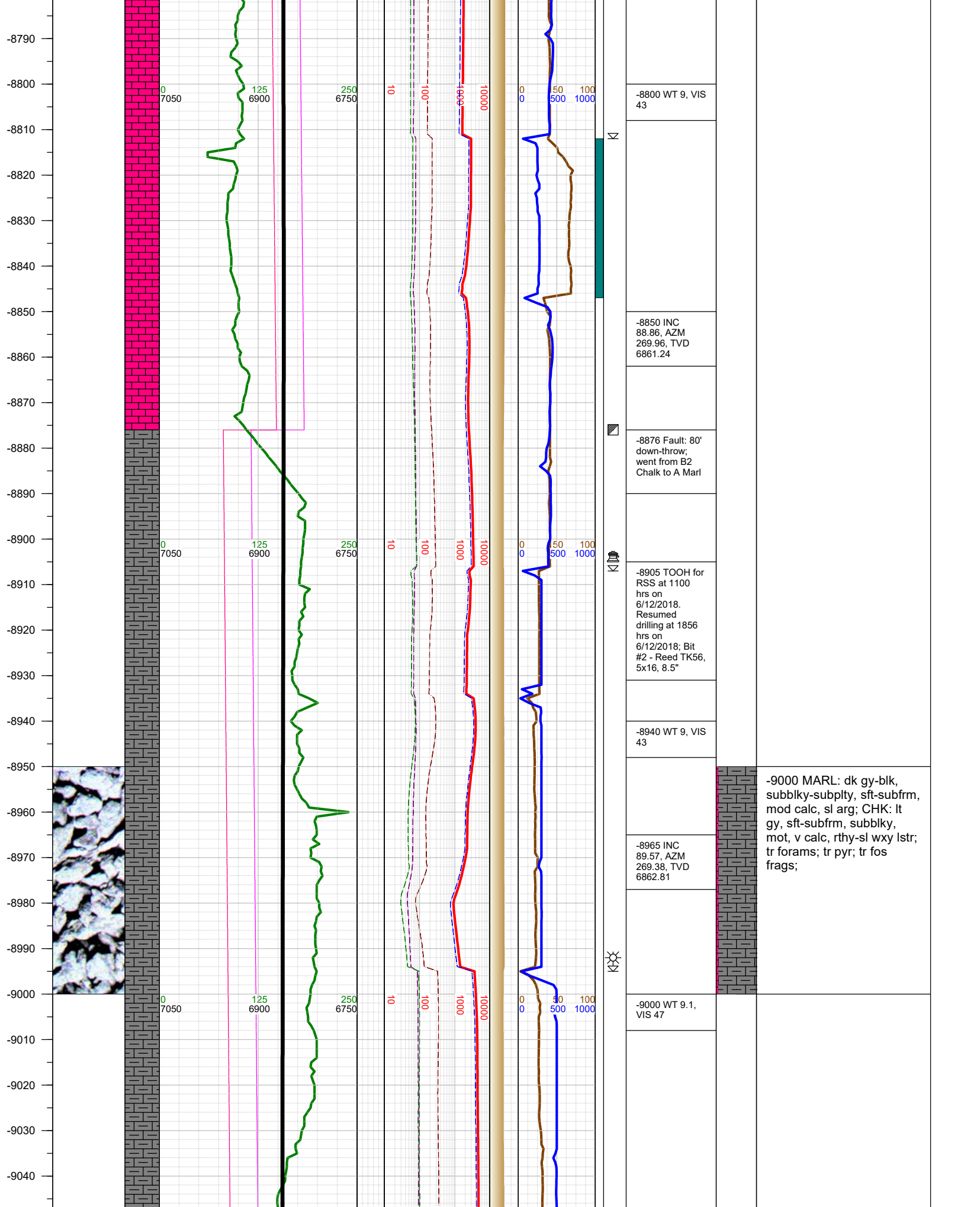
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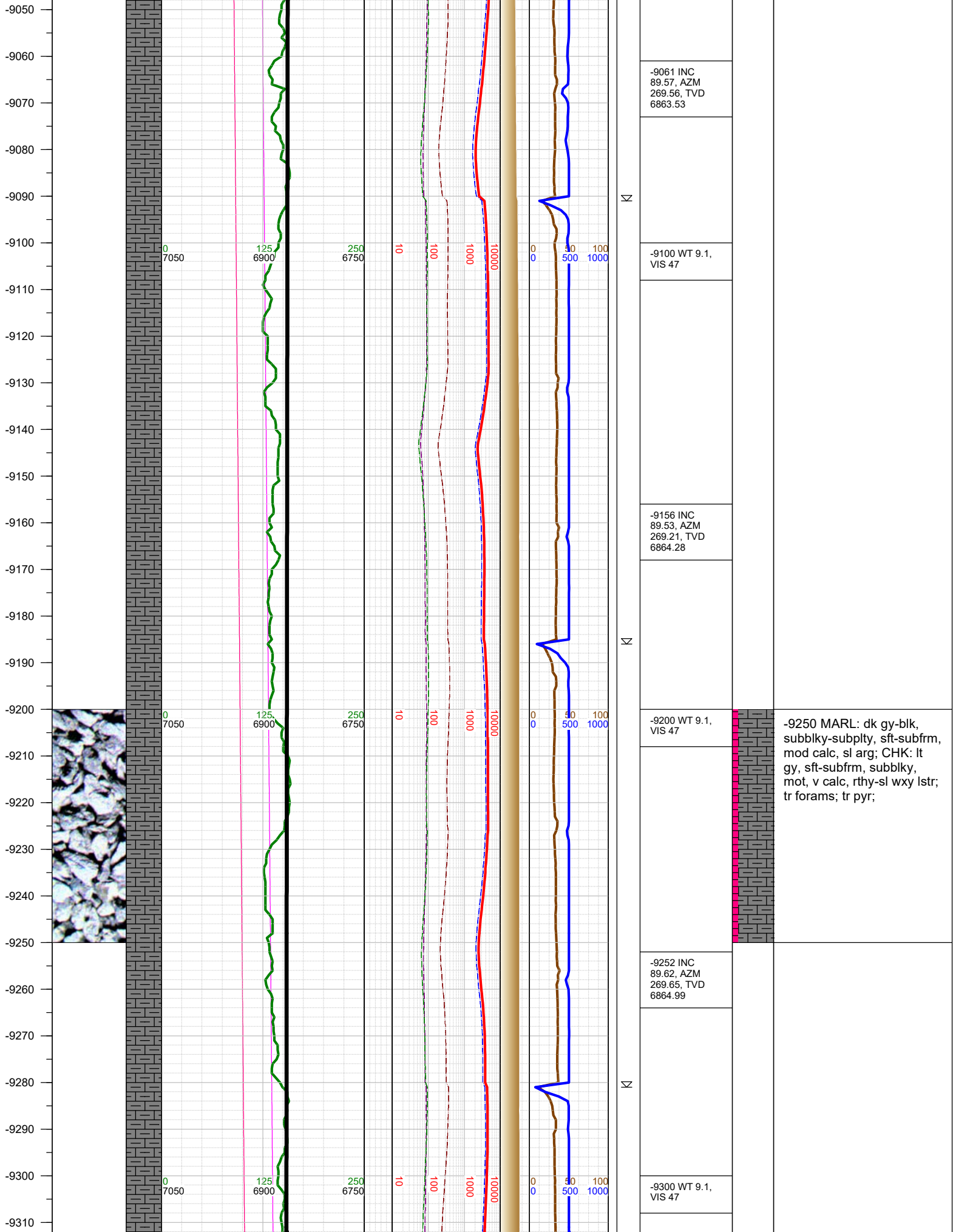
-8700 WT 9, VIS 43

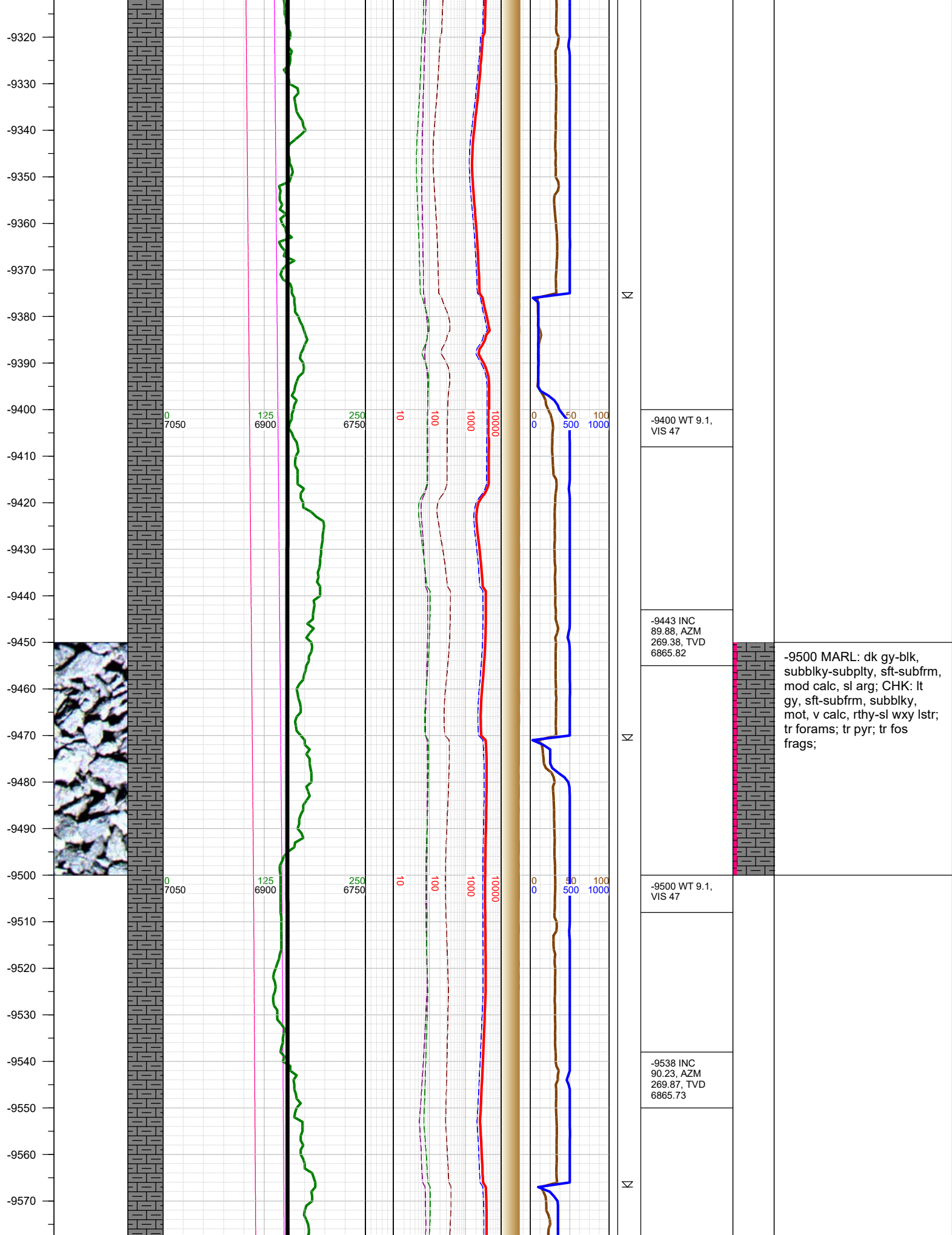


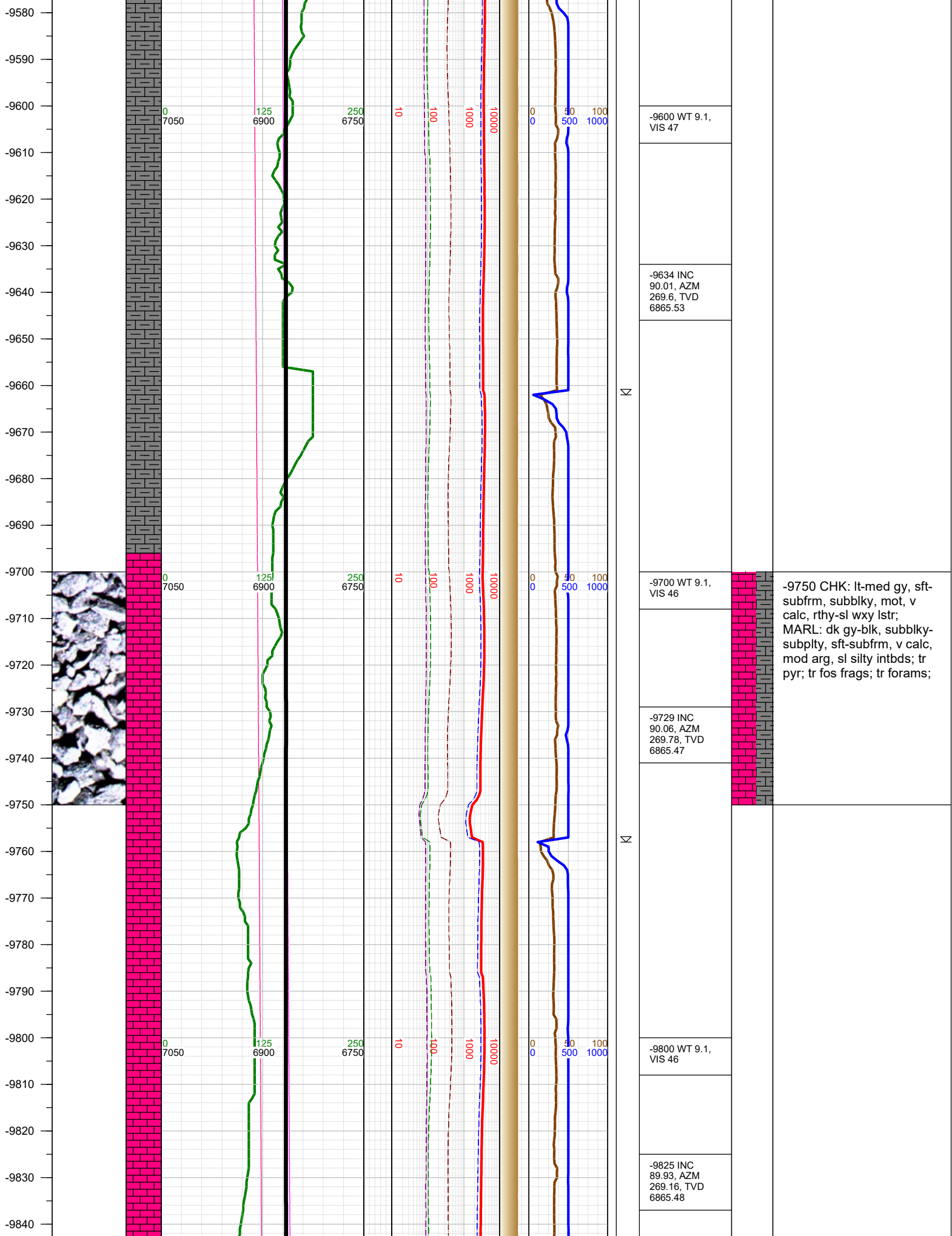
-8750 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subply, sft-subfrm, v calc, mod arg, sl silty intbds; tr pyr; tr fos frags; tr forams;

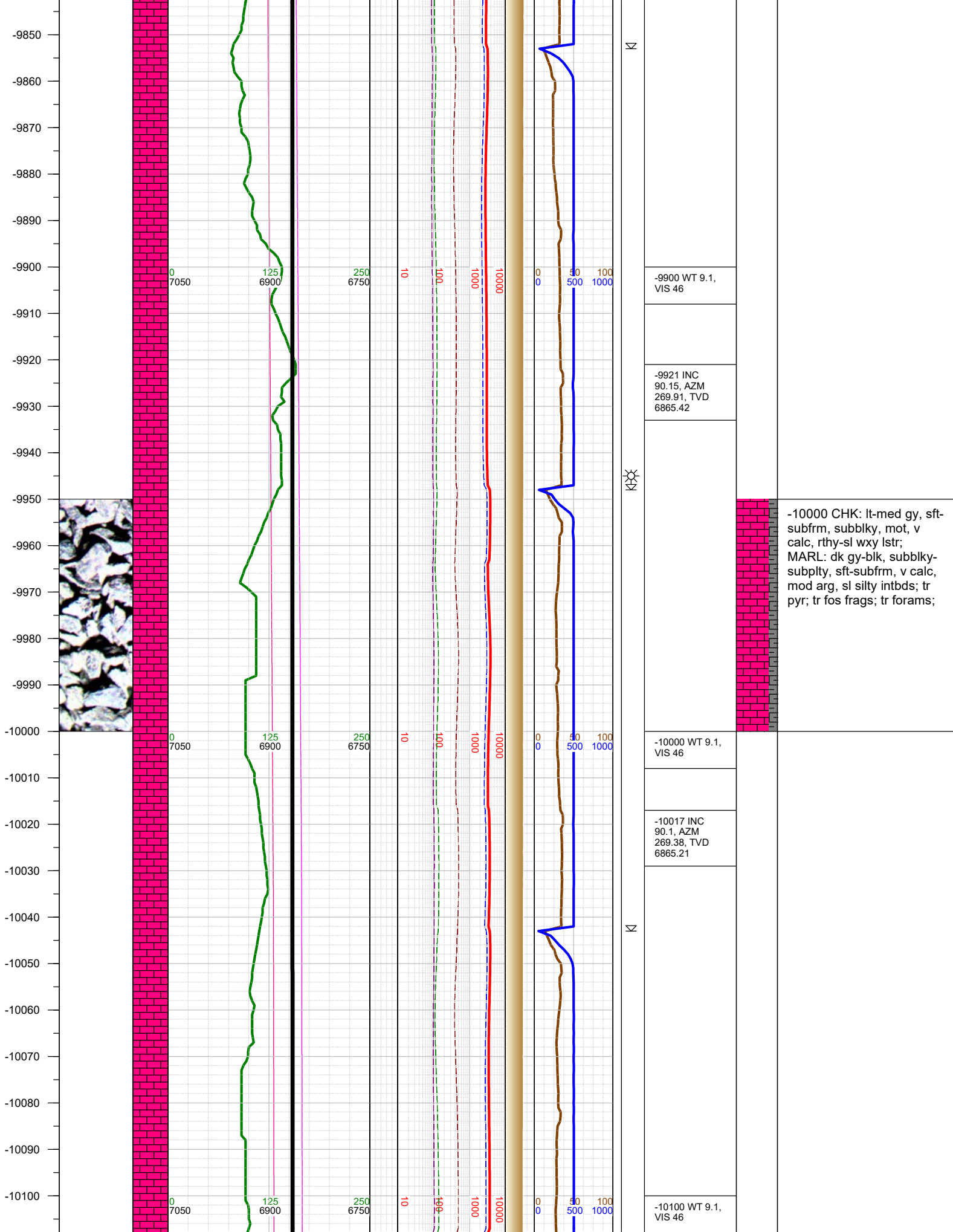
-8755 INC 92.4, AZM 268.33, TVD 6862.28











-9900 WT 9.1,
VIS 46

-9921 INC
90.15, AZM
269.91, TVD
6865.42



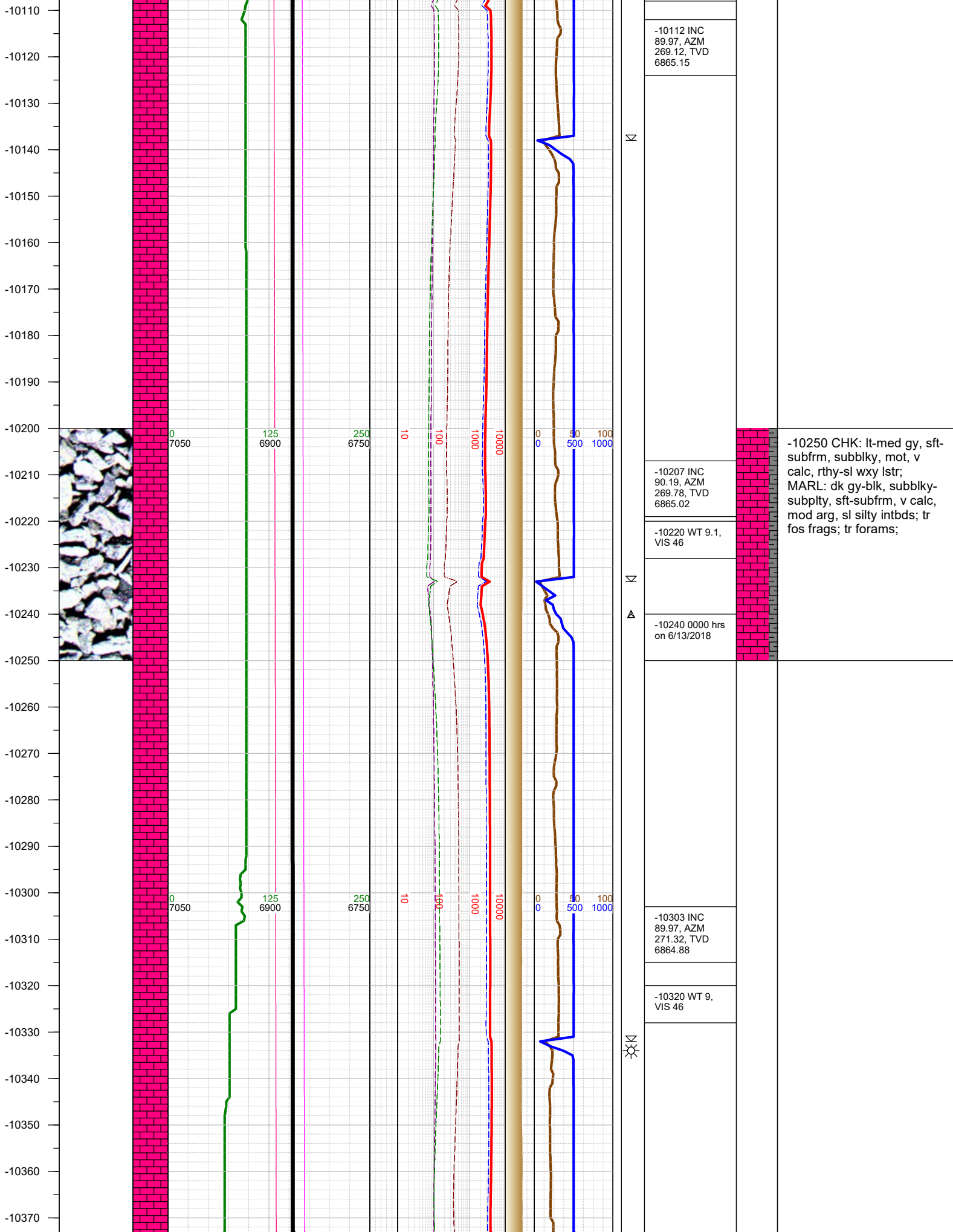
-10000 CHK: lt-med gy, sft-
subfrm, subblky, mot, v
calc, rthy-sl wxy lstr;
MARL: dk gy-blk, subblky-
subplty, sft-subfrm, v calc,
mod arg, sl silty intbds; tr
pyr; tr fos frags; tr forams;

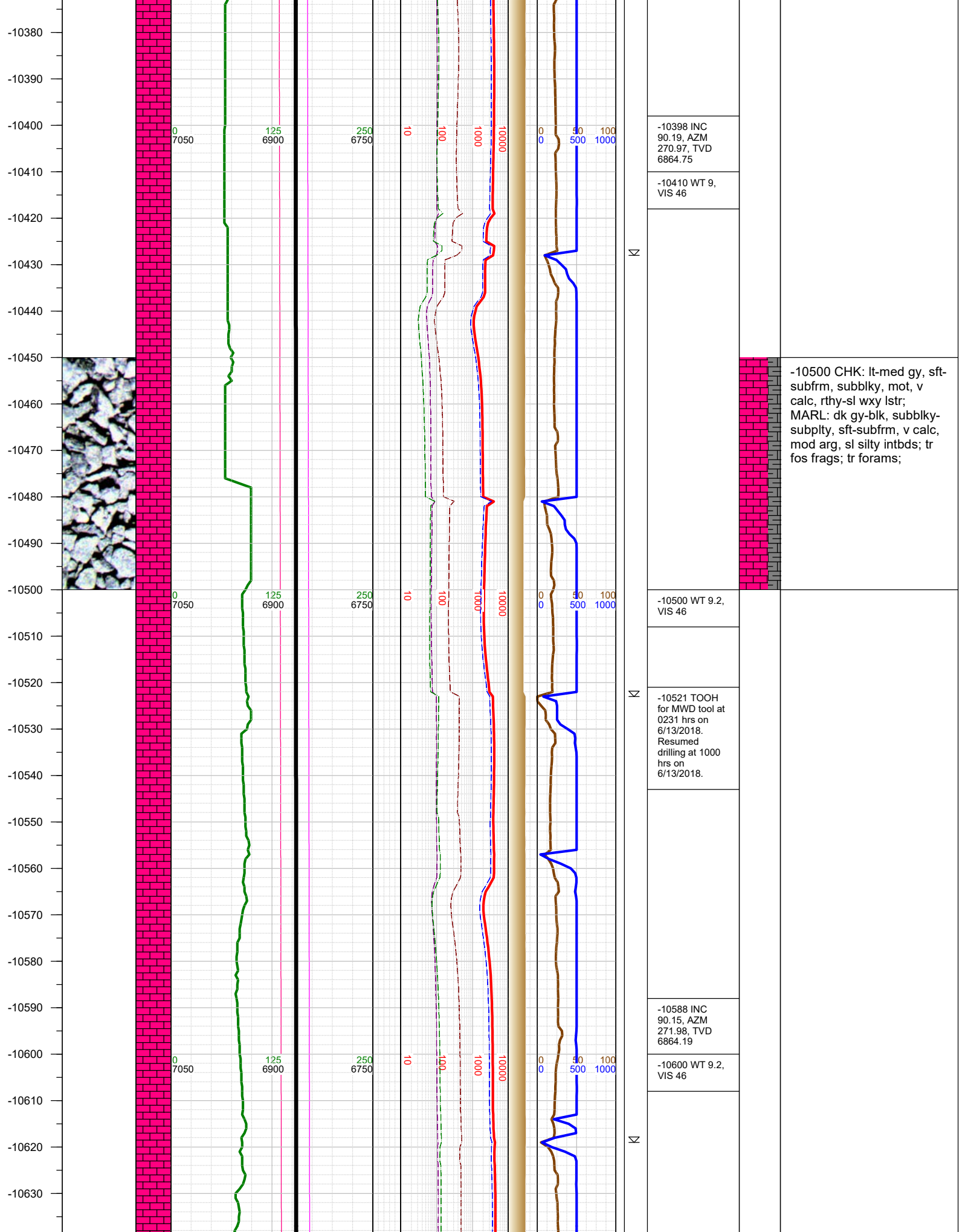
-10000 WT 9.1,
VIS 46

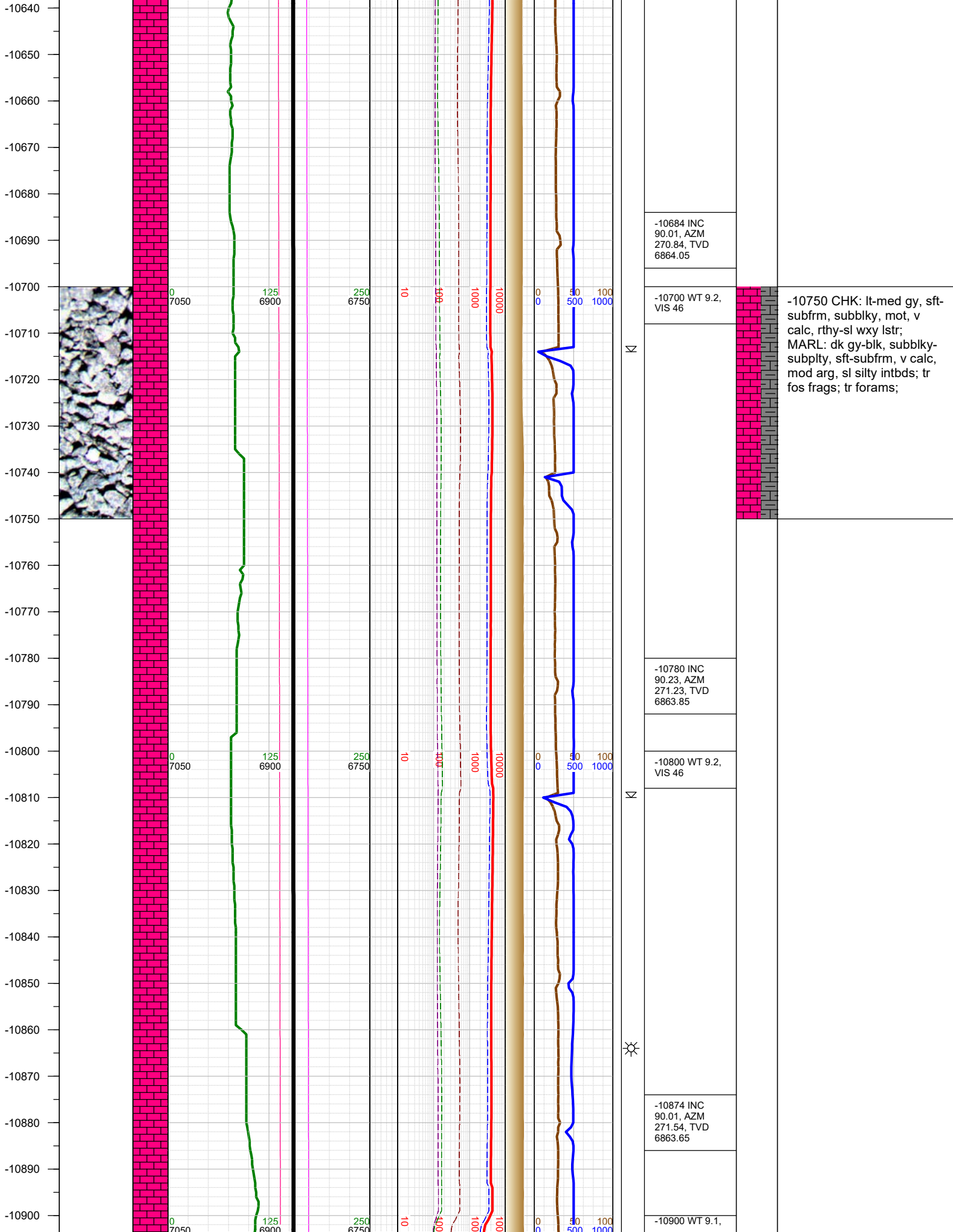
-10017 INC
90.1, AZM
269.38, TVD
6865.21

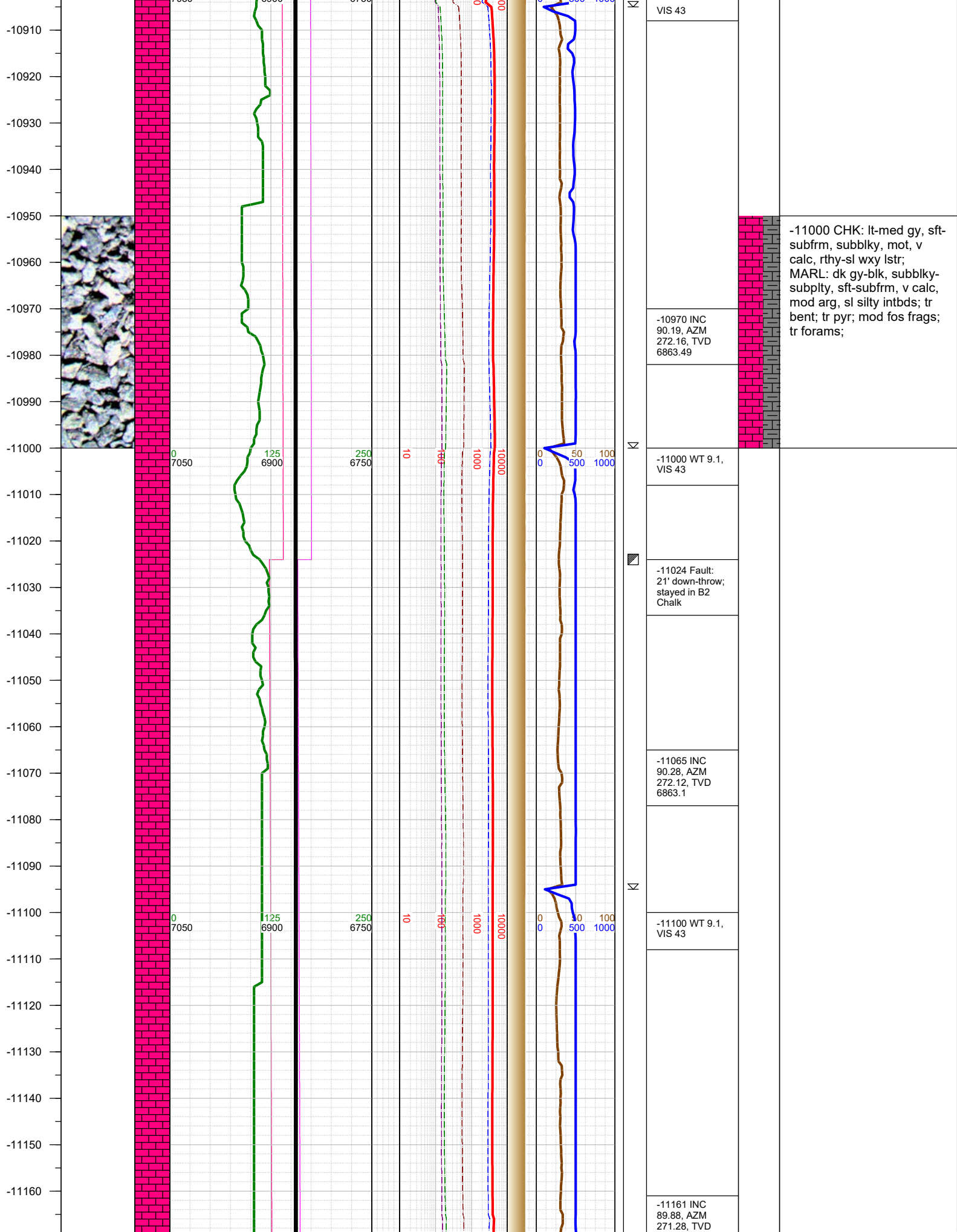


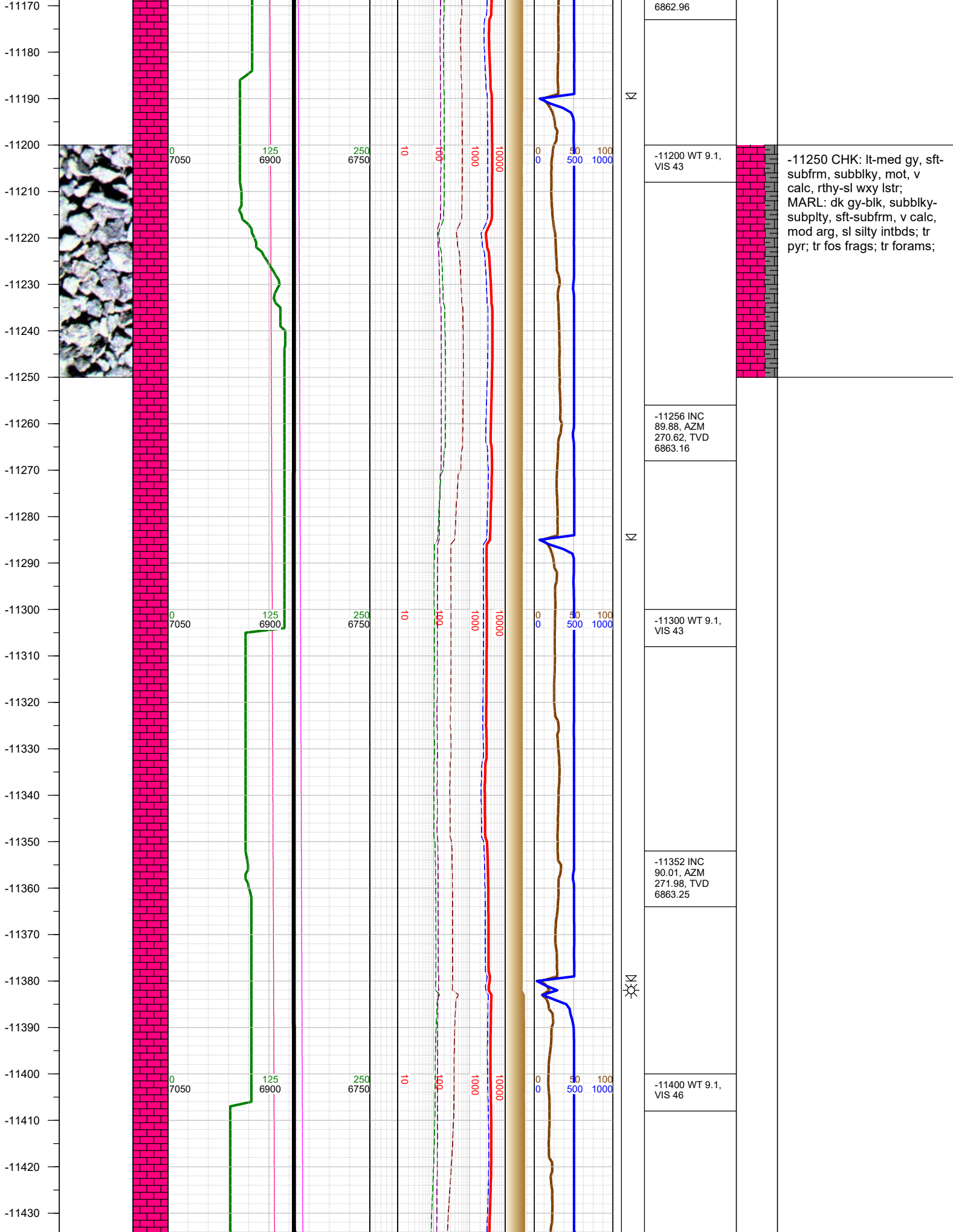
-10100 WT 9.1,
VIS 46



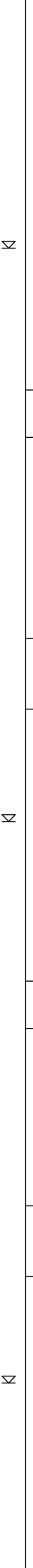
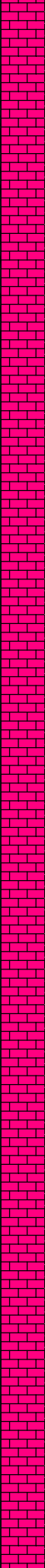








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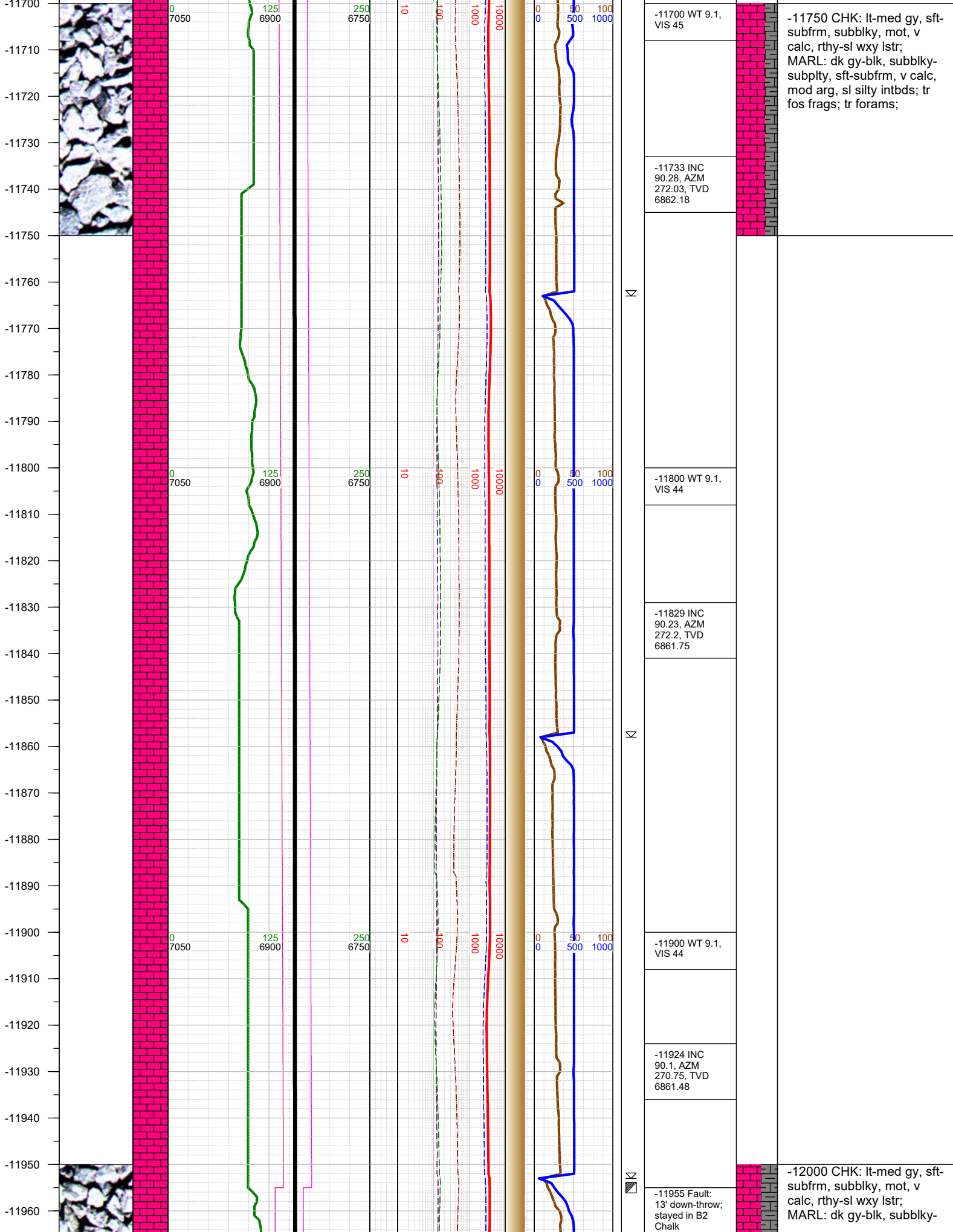
-11500 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr fos frags; tr forams;

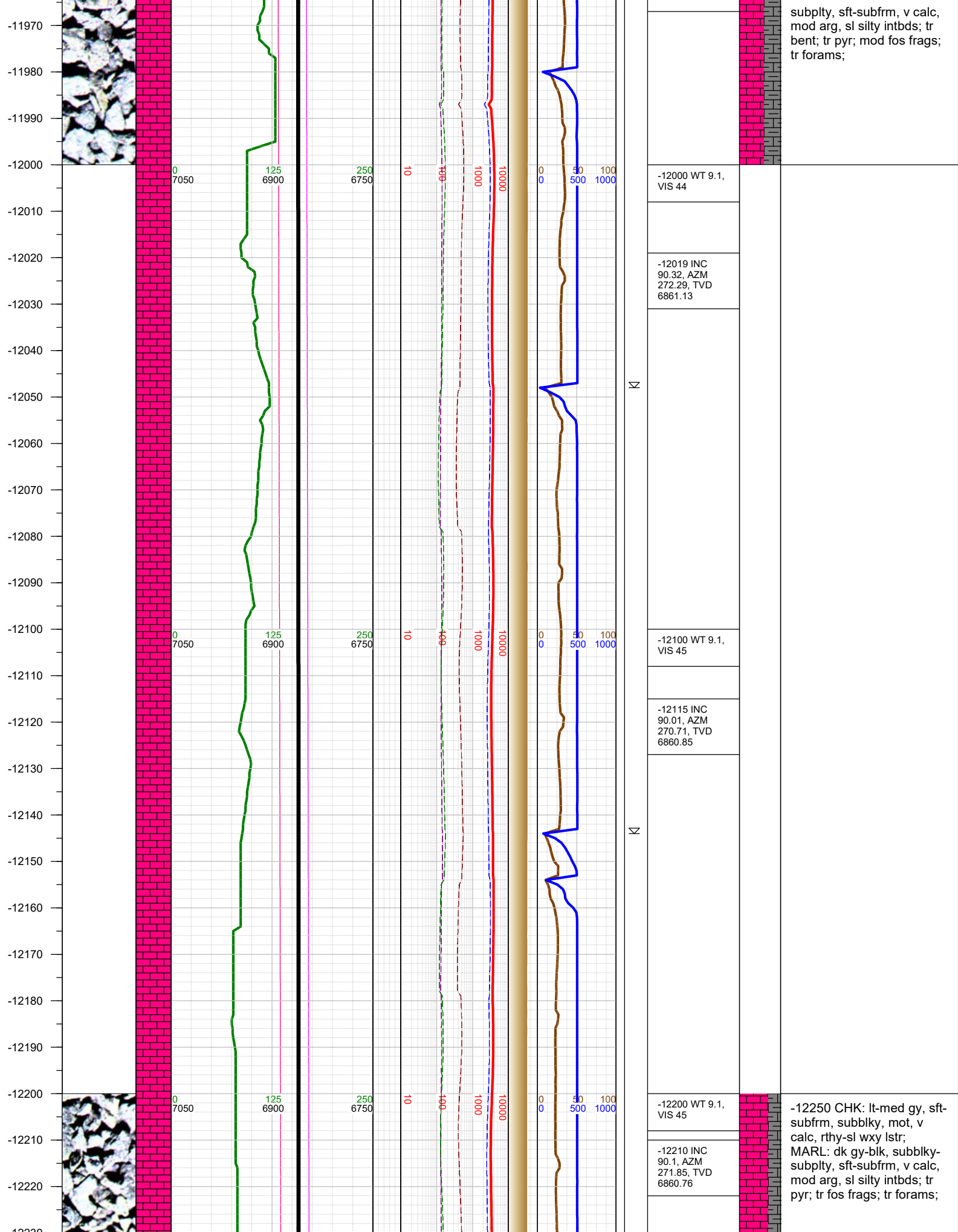
-11500 WT 9.1, VIS 45

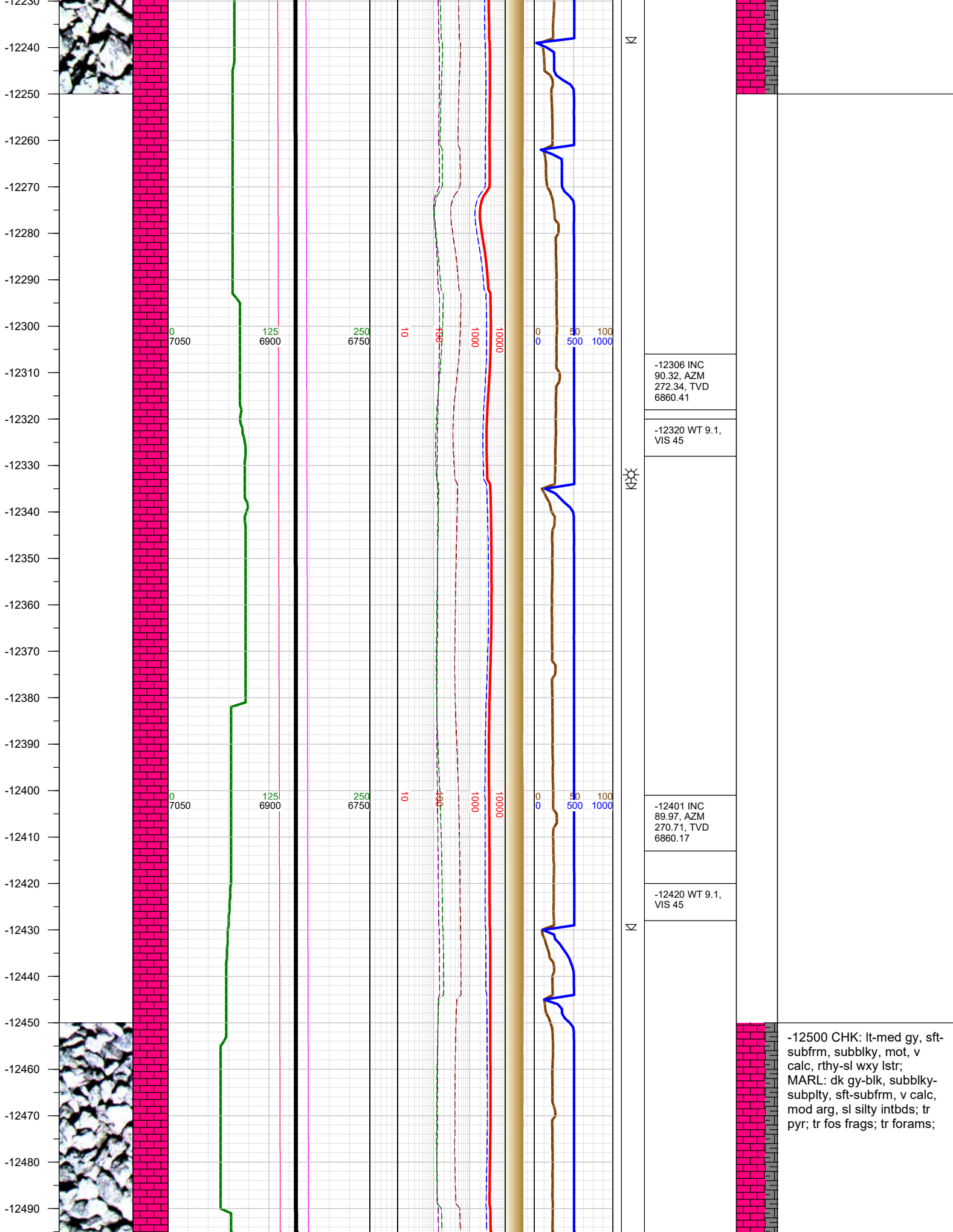
-11542 INC 90.23, AZM 271.81, TVD 6862.85

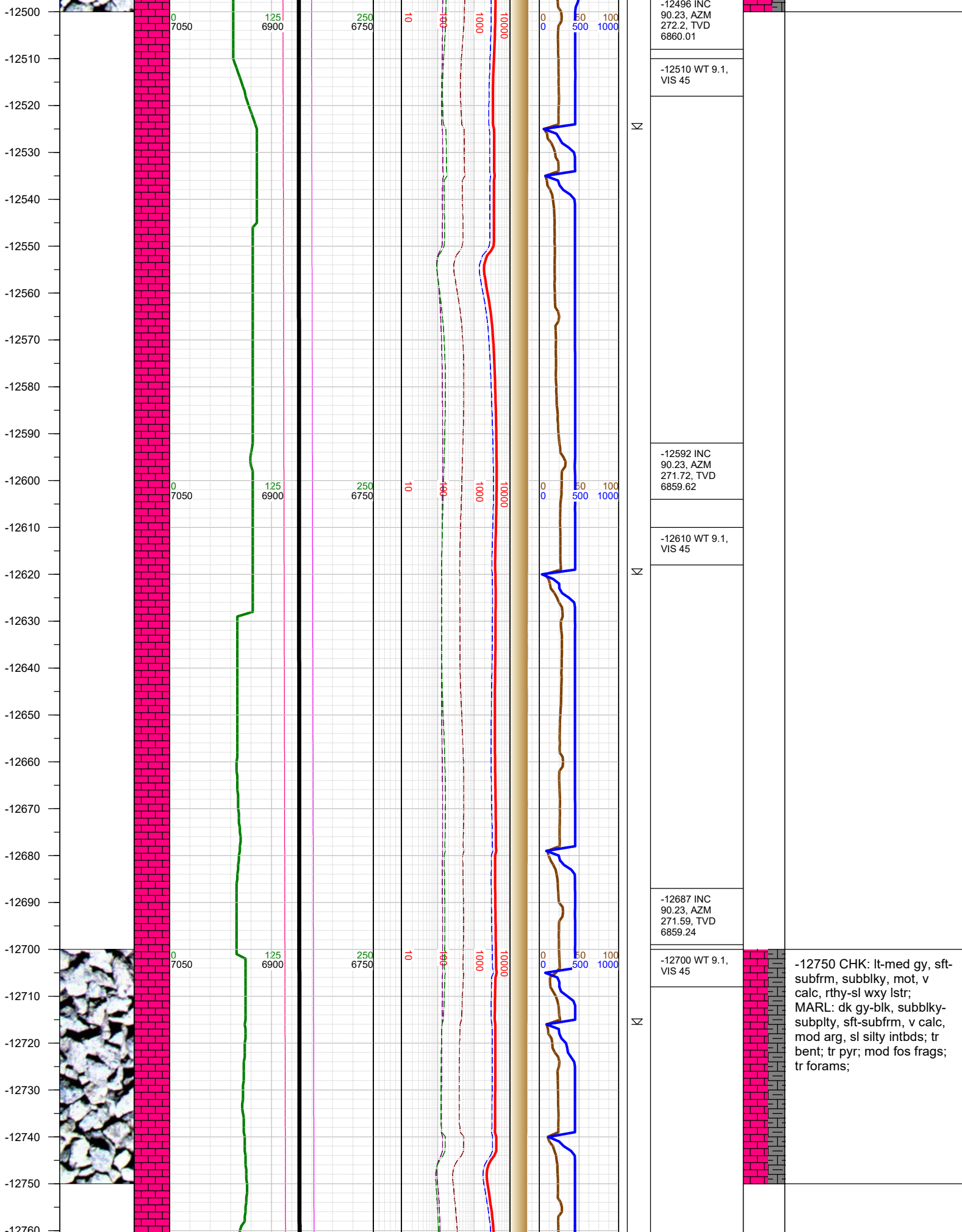
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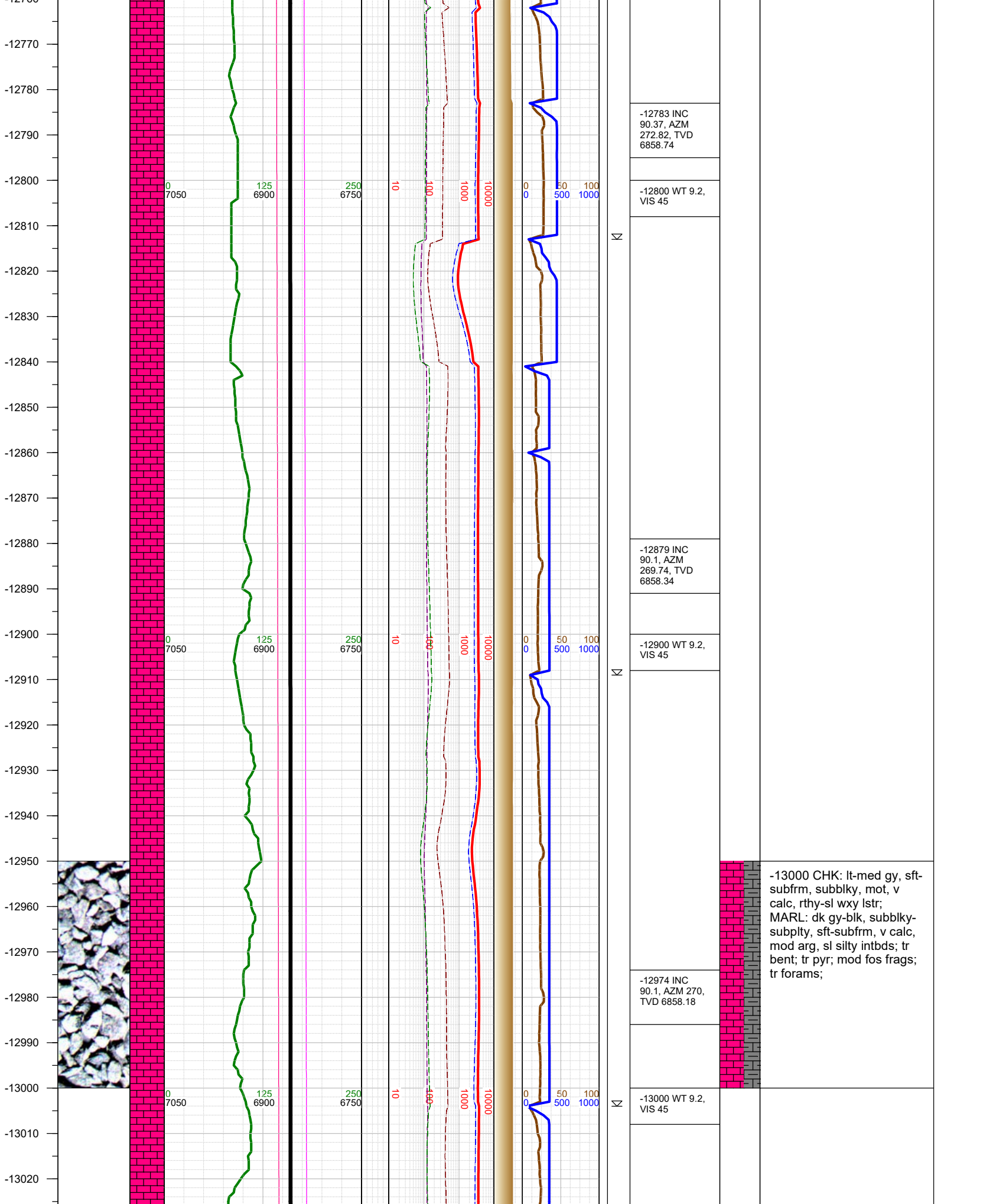
-11638 INC 90.15, AZM 271.37, TVD 6862.54



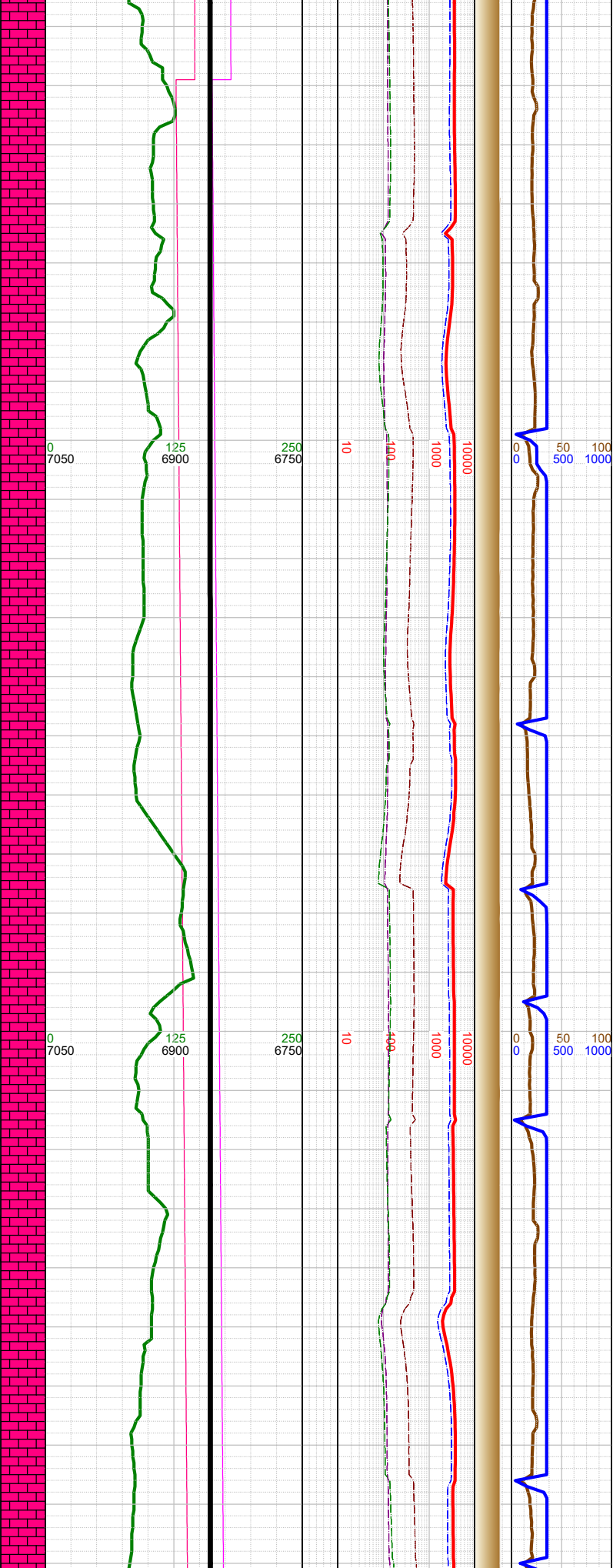




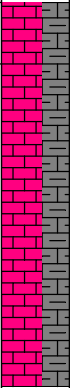




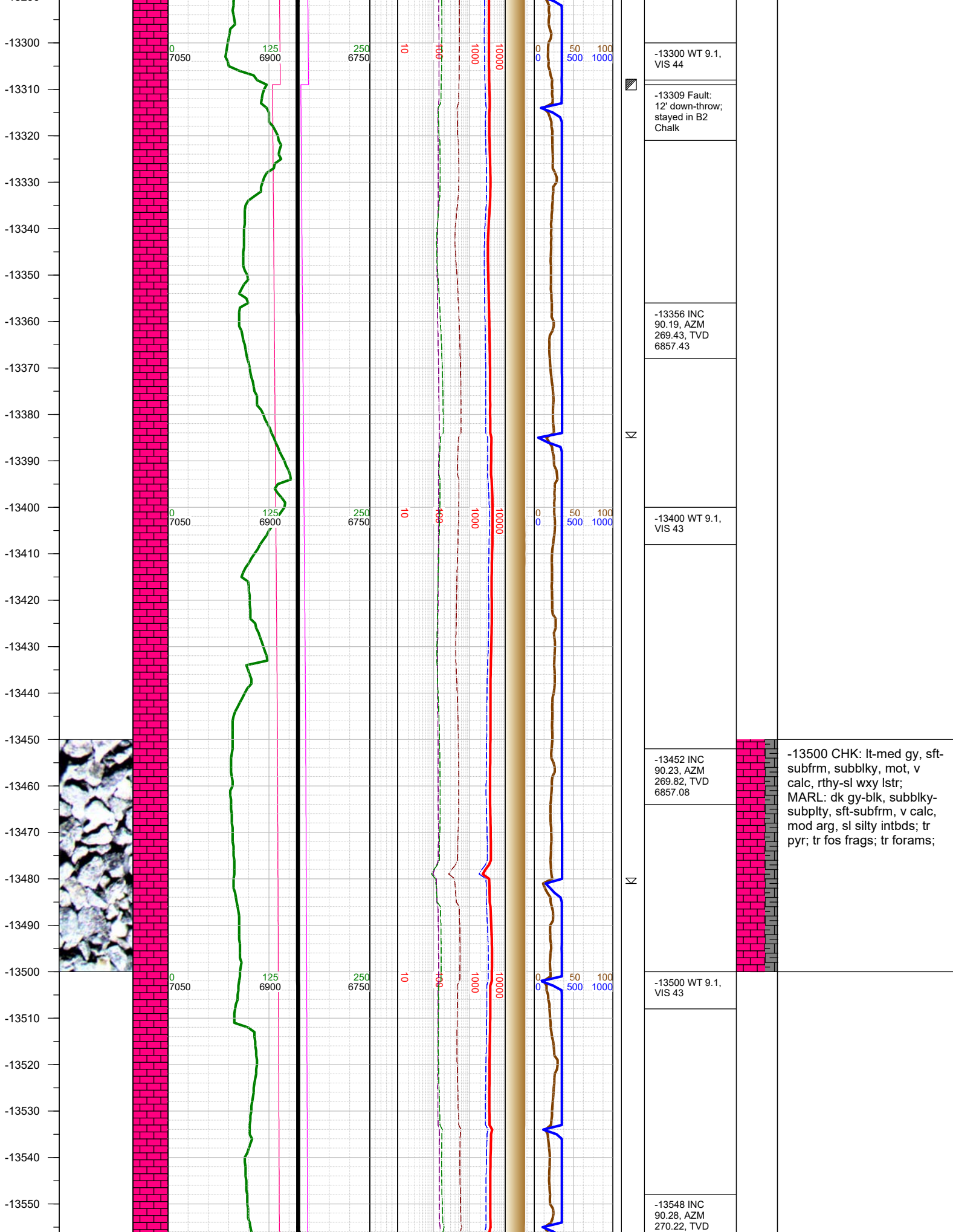
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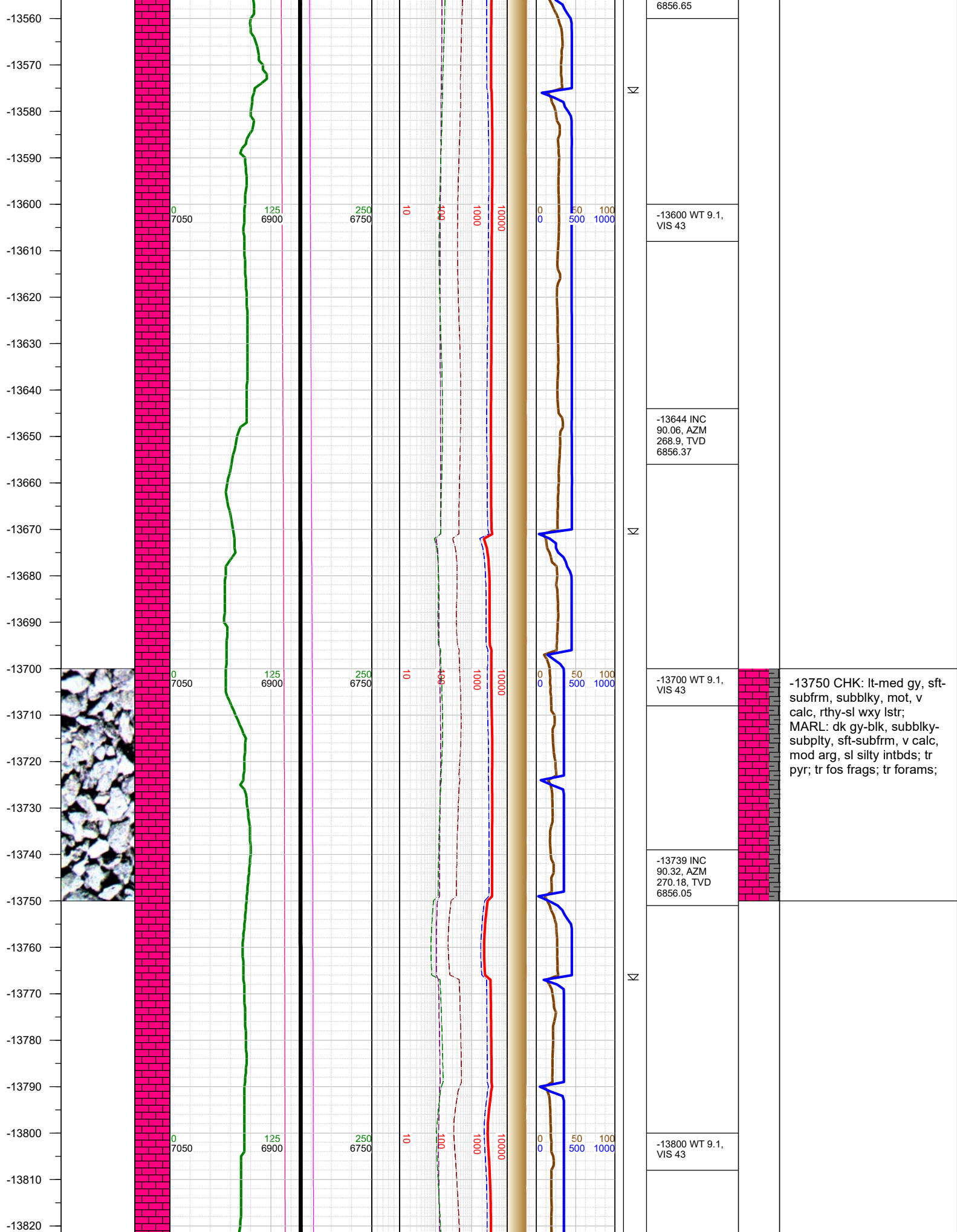


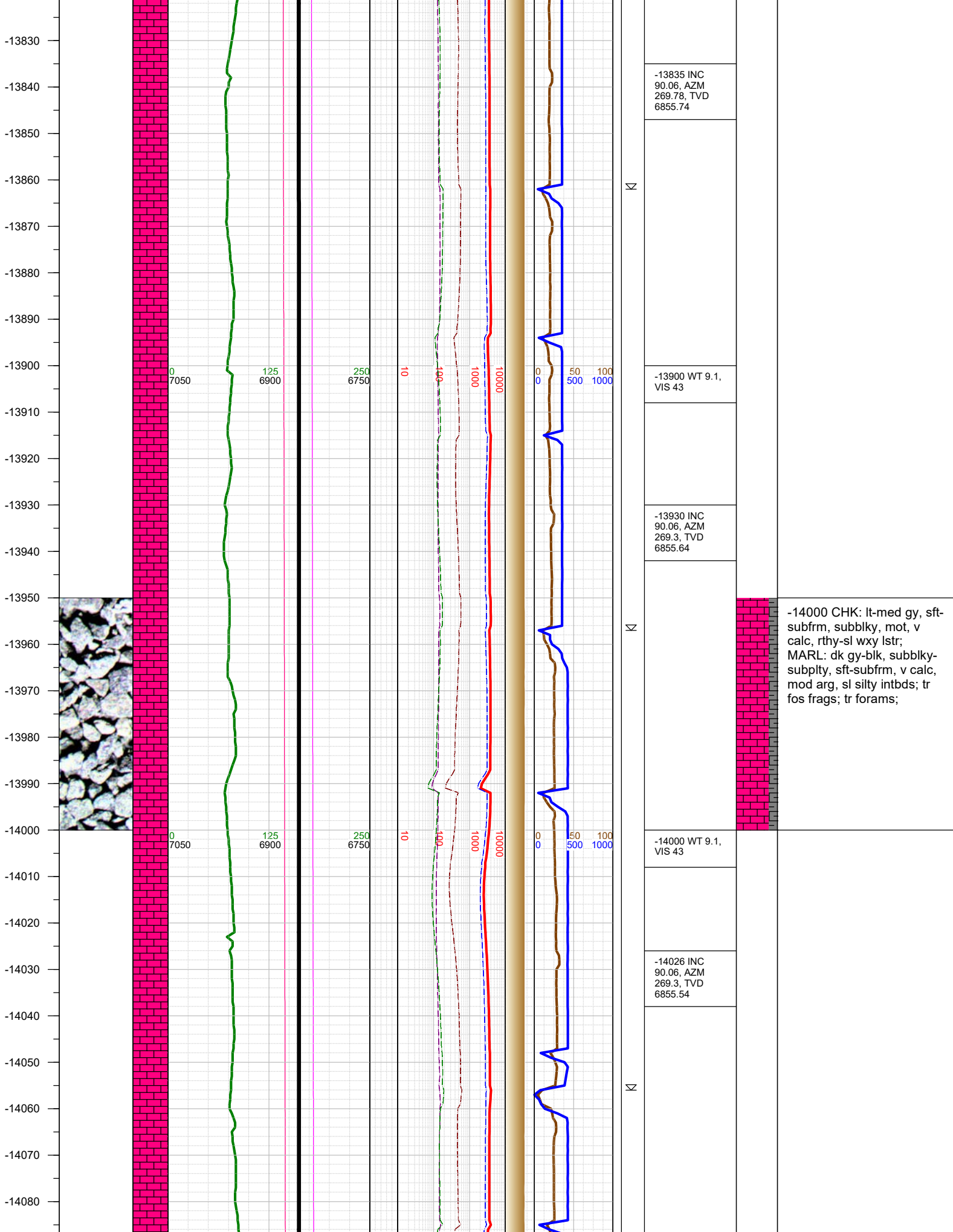
-13039 Fault: 23' down-throw; stayed in B2 Chalk	-13049 0000 hrs on 6/14/2018	-13070 INC 90.28, AZM 270.4, TVD 6857.86	-13100 WT 9.1, VIS 44	-13166 INC 90.01, AZM 269.43, TVD 6857.61	-13200 WT 9.1, VIS 44	-13261 INC 90.01, AZM 269.12, TVD 6857.6



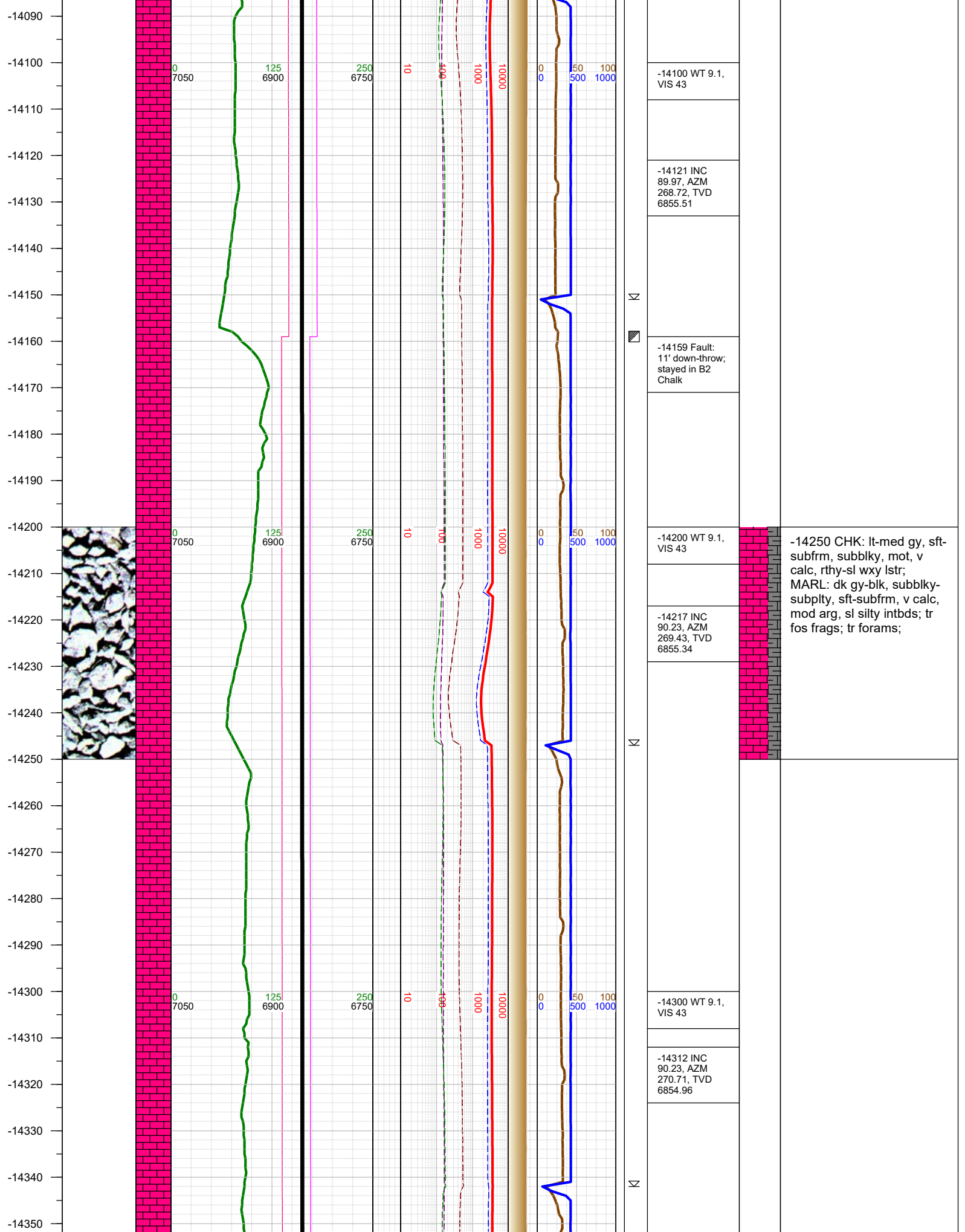
-13250 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr bent; tr pyr; mod fos frags; tr forams;

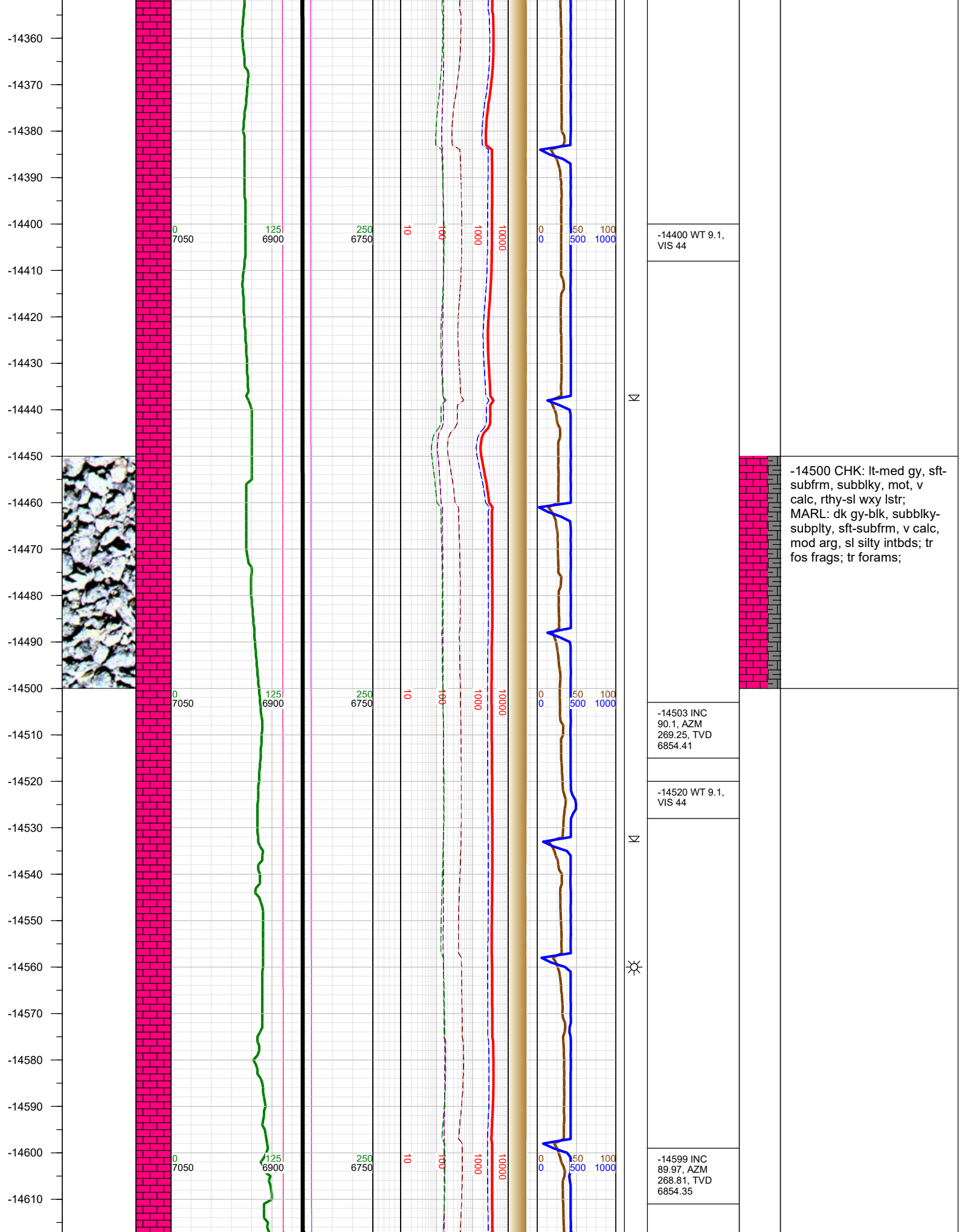




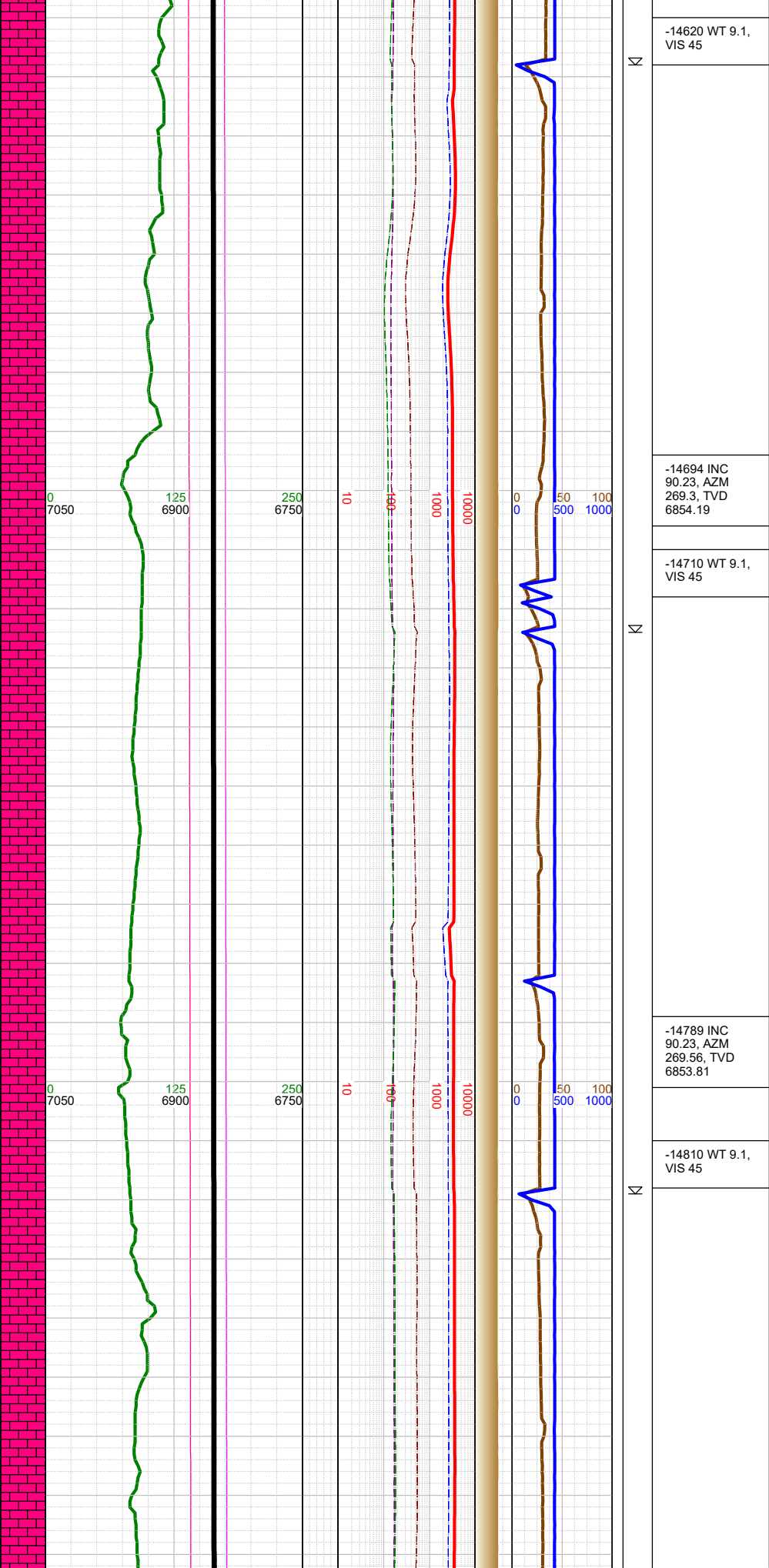


-14000 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subply, sft-subfrm, v calc, mod arg, sl silty intbds; tr fos frags; tr forams;



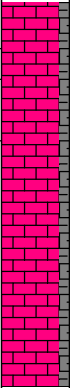


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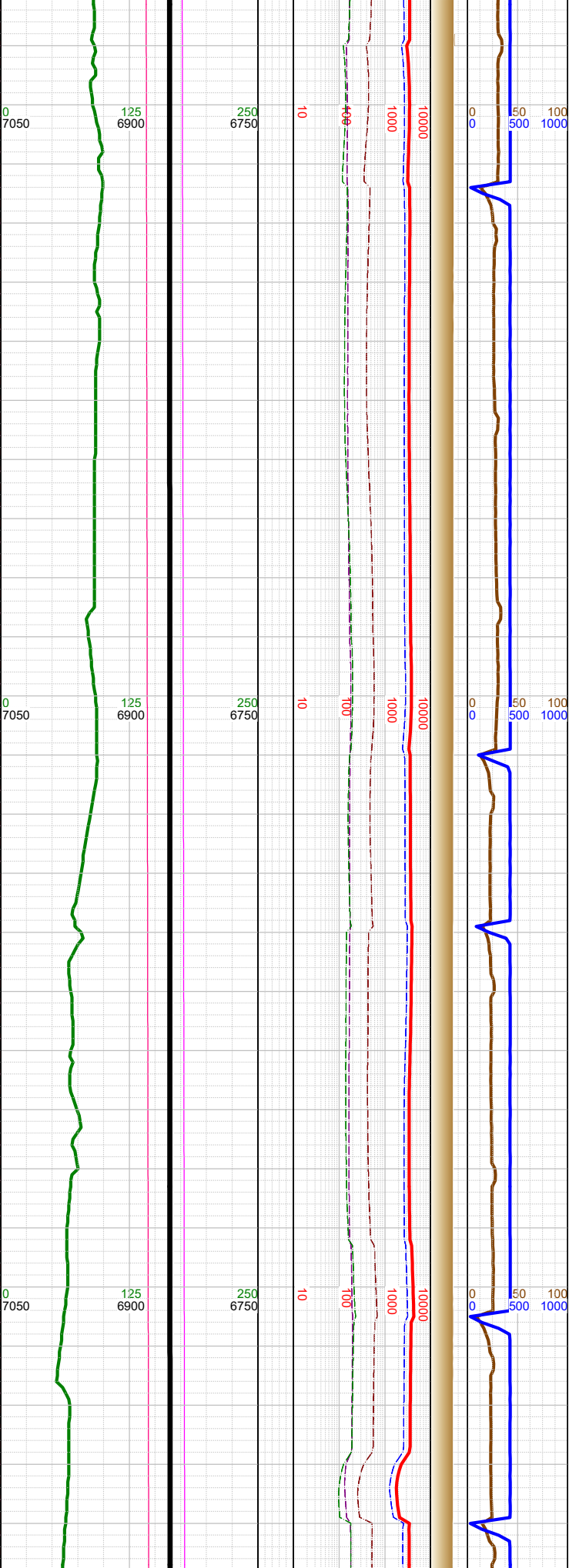
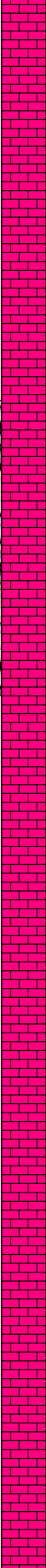
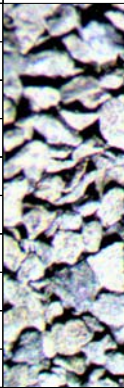
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-14620 WT 9.1, VIS 45	
-14694 INC 90.23, AZM 269.3, TVD 6854.19	
-14710 WT 9.1, VIS 45	
-14789 INC 90.23, AZM 269.56, TVD 6853.81	
-14810 WT 9.1, VIS 45	



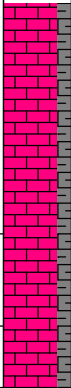
-14750 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr pyr; tr fos frags; tr forams;

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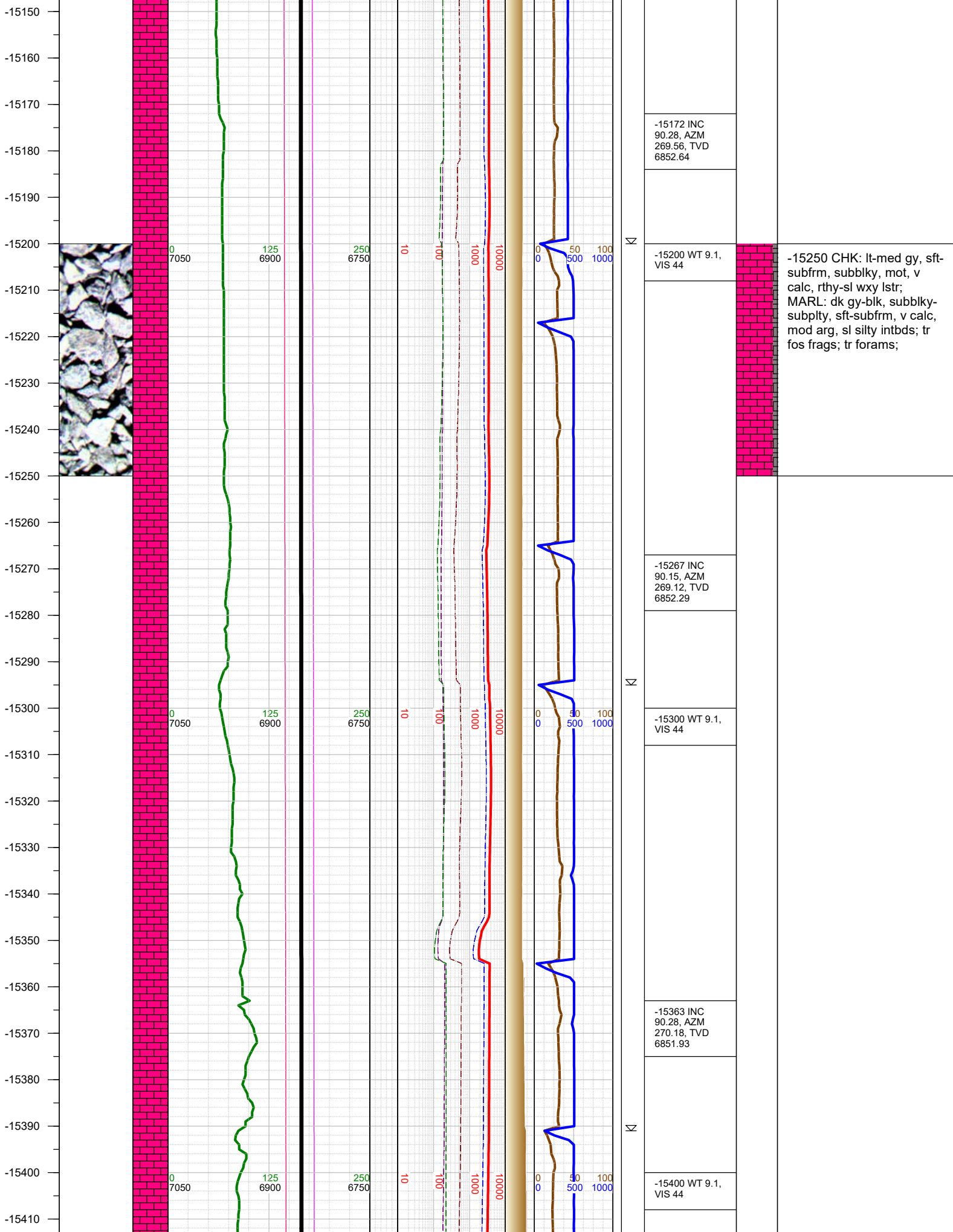


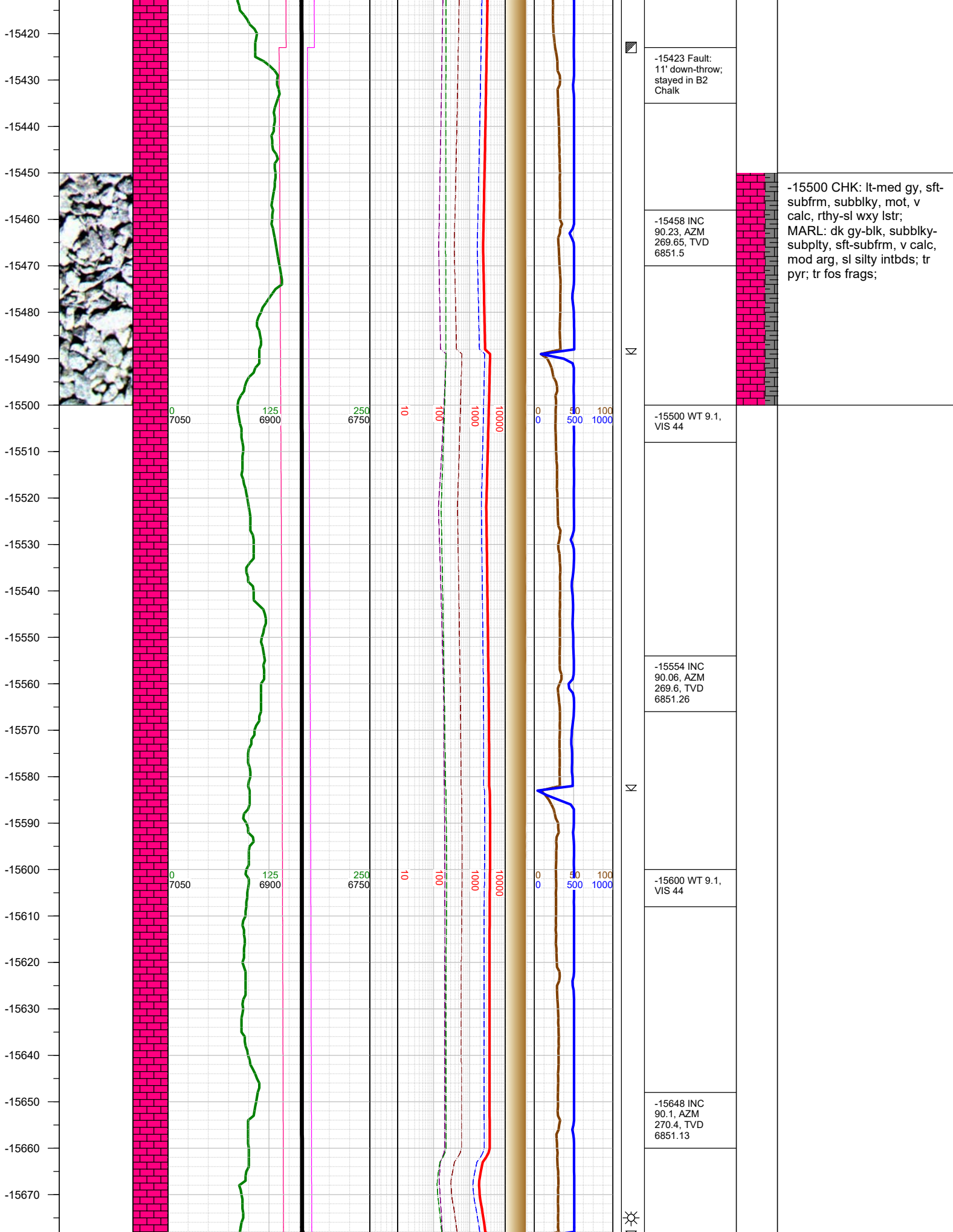
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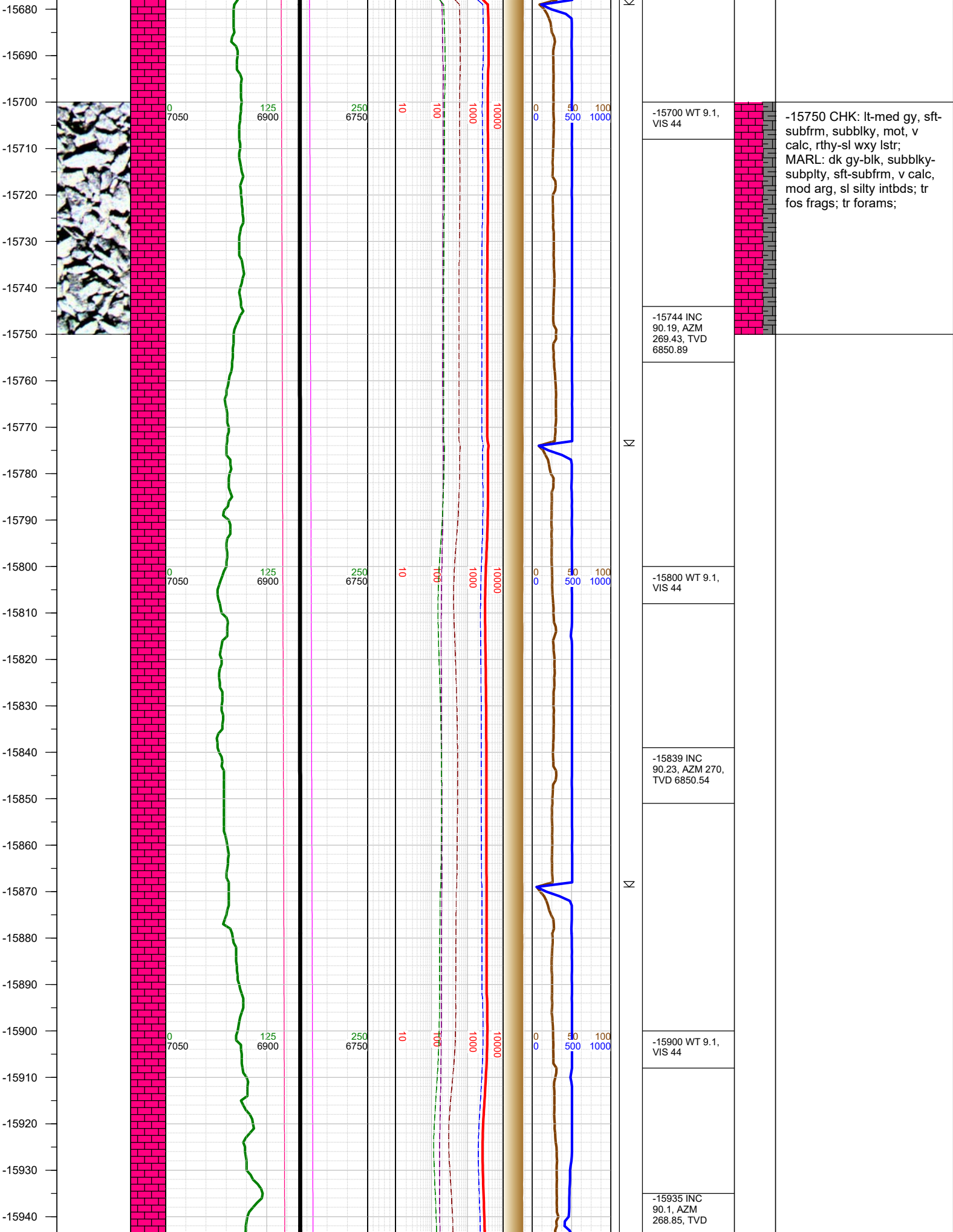
-14885 INC 90.28, AZM 269.47, TVD 6853.38
-14900 WT 9.1, VIS 45
-14980 INC 90.1, AZM 268.15, TVD 6853.06
-15000 WT 9.1, VIS 44
-15076 INC 90.06, AZM 268.94, TVD 6852.93
-15100 WT 9.1, VIS 44

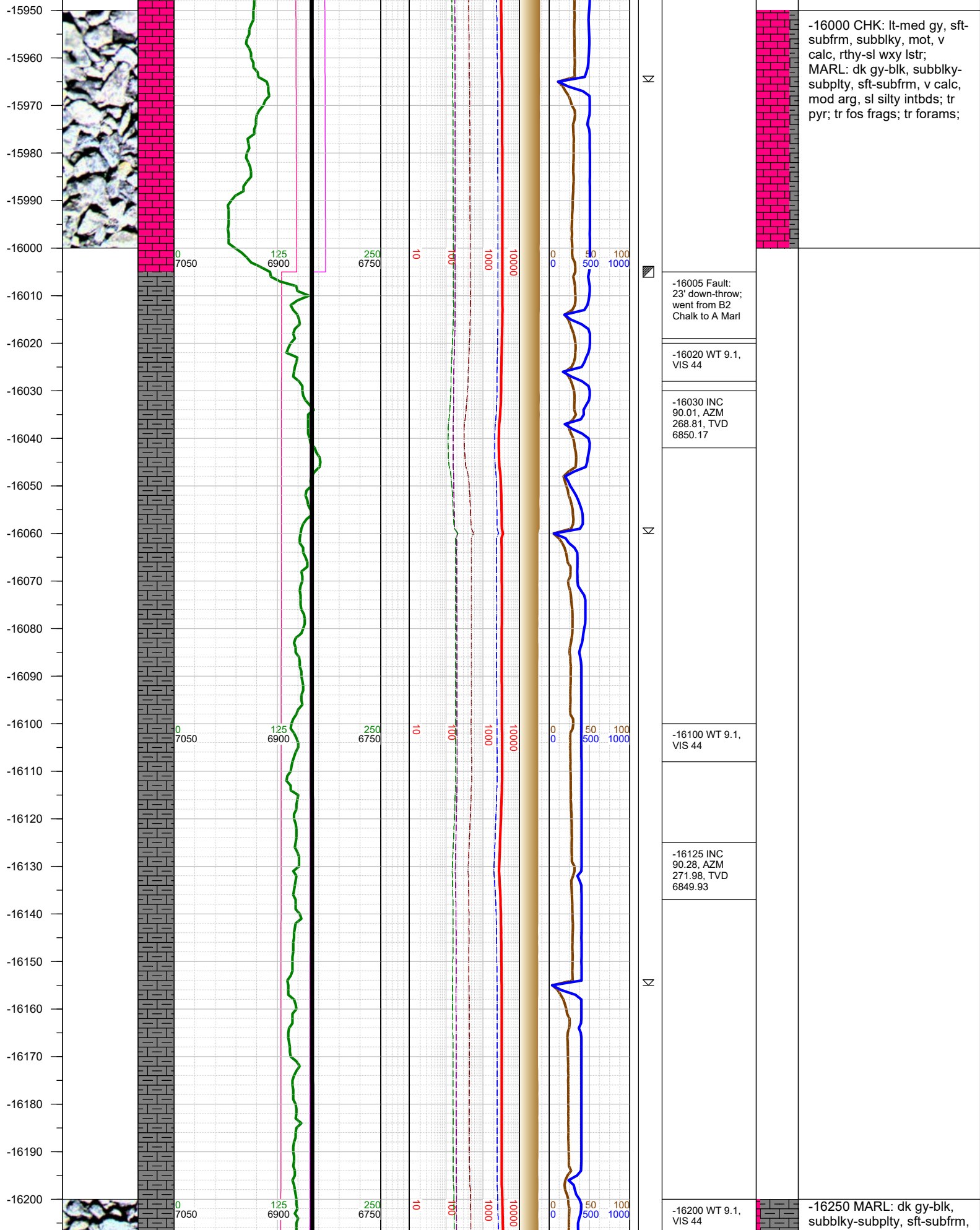


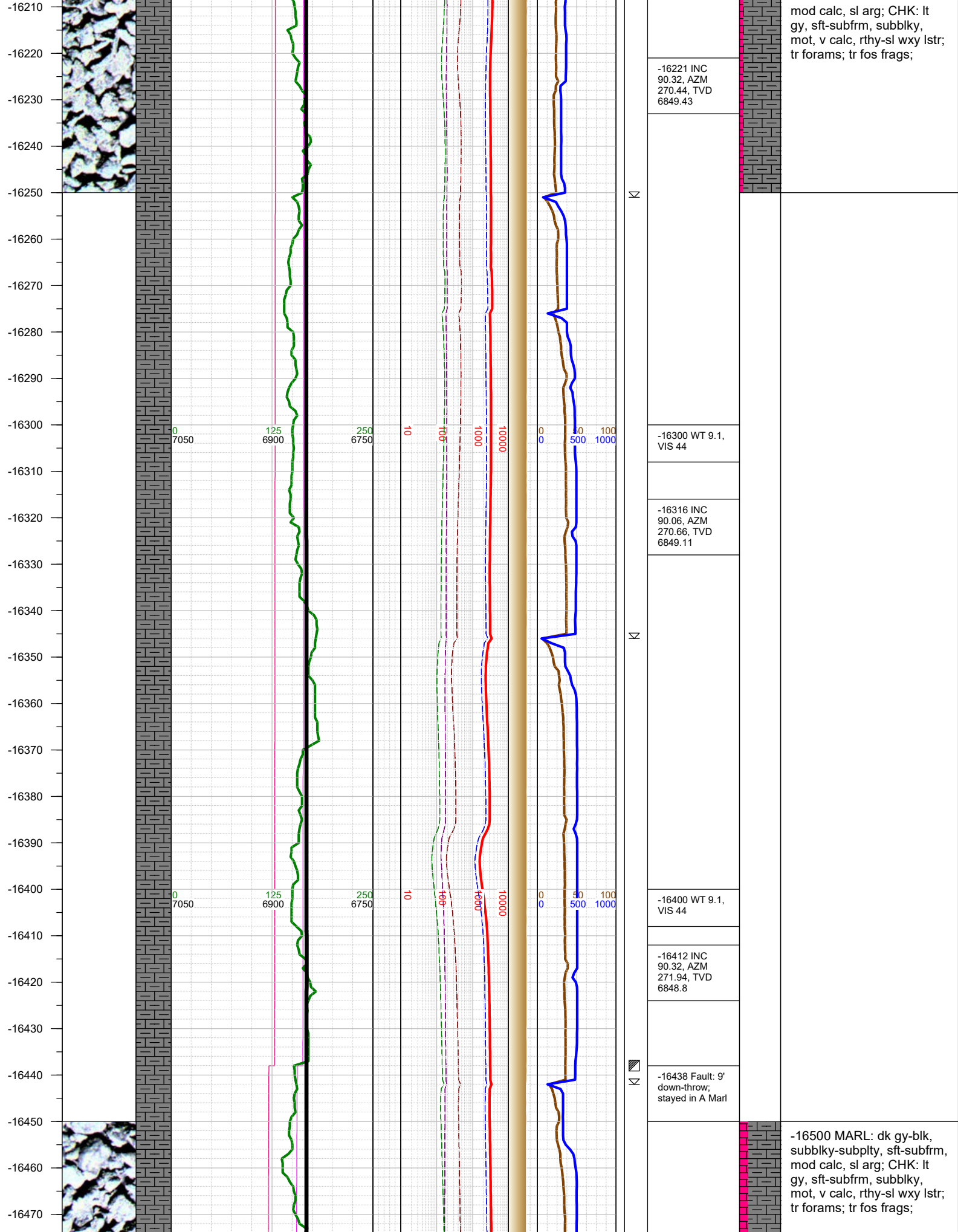
-15000 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr fos frags; tr forams;



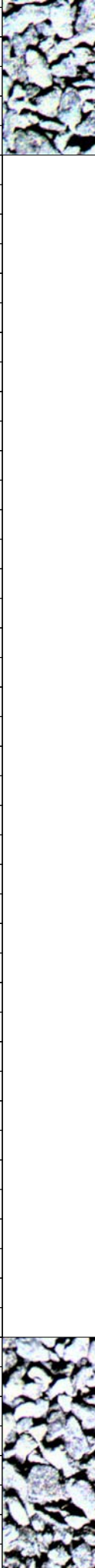








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-16507 INC
89.57, AZM
270.48, TVD
6848.89

-16520 WT 9.1,
VIS 44

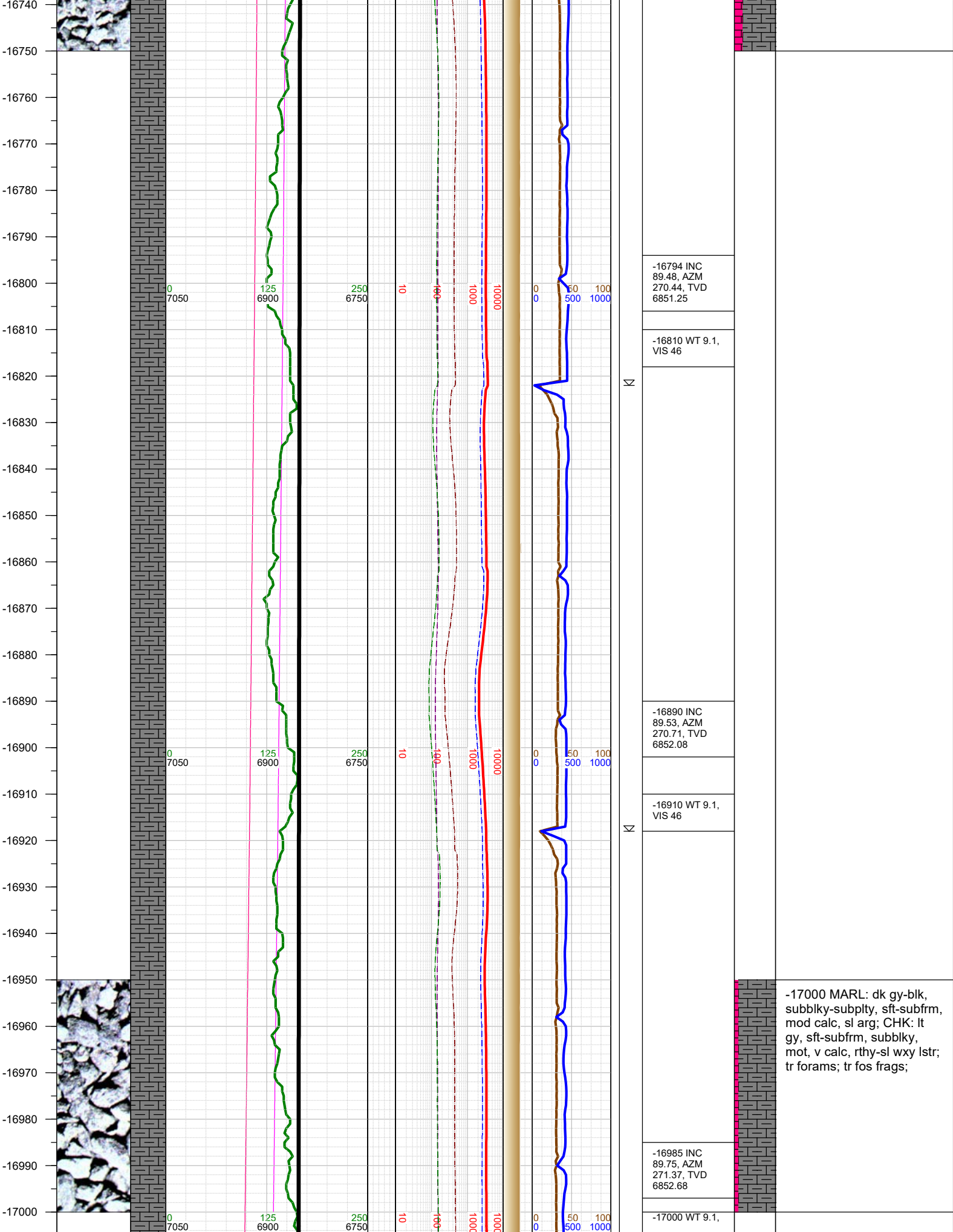
-16603 INC
89.62, AZM
271.1, TVD
6849.57

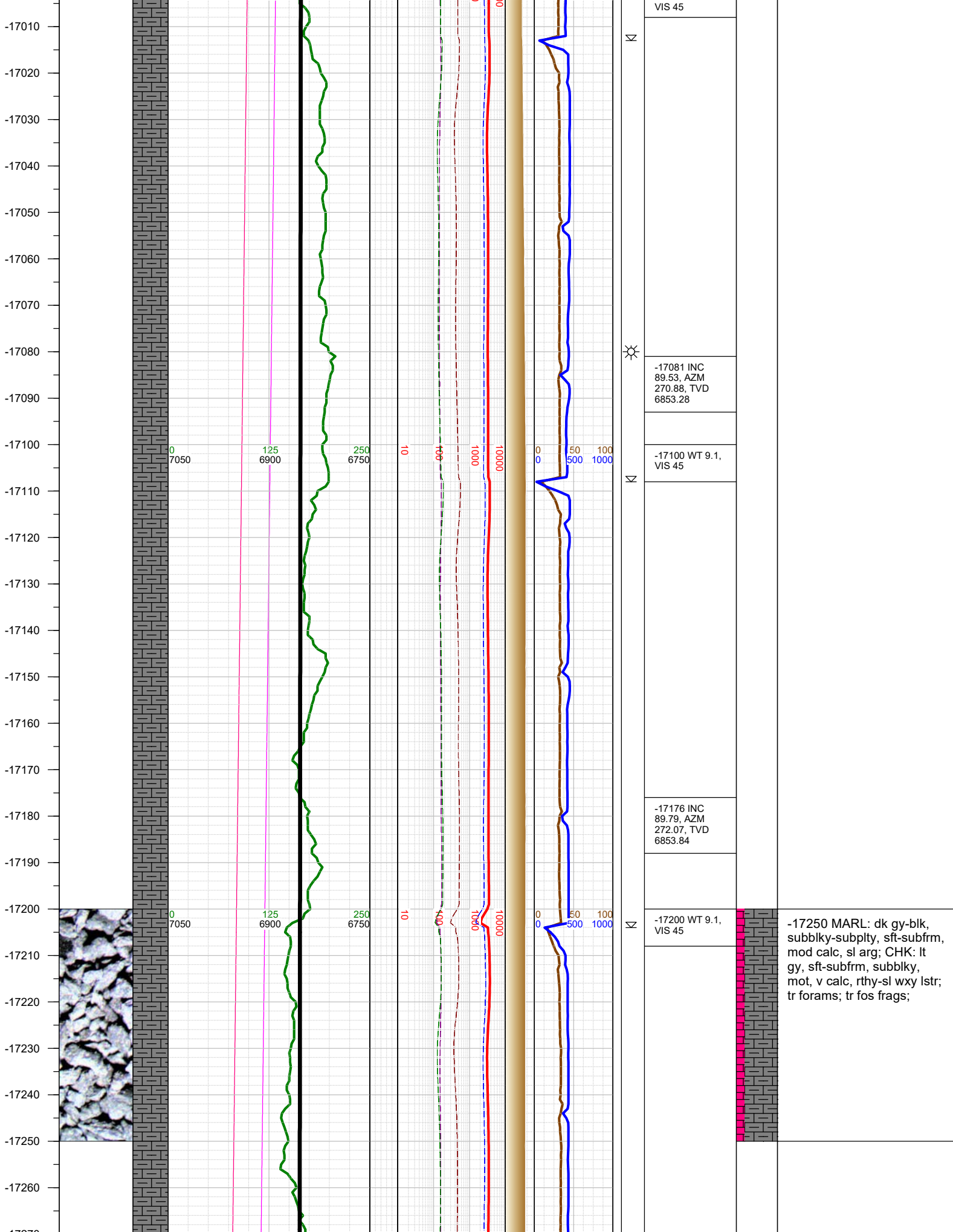
-16620 WT 9.1,
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-16698 INC
89.44, AZM
270.53, TVD
6850.34

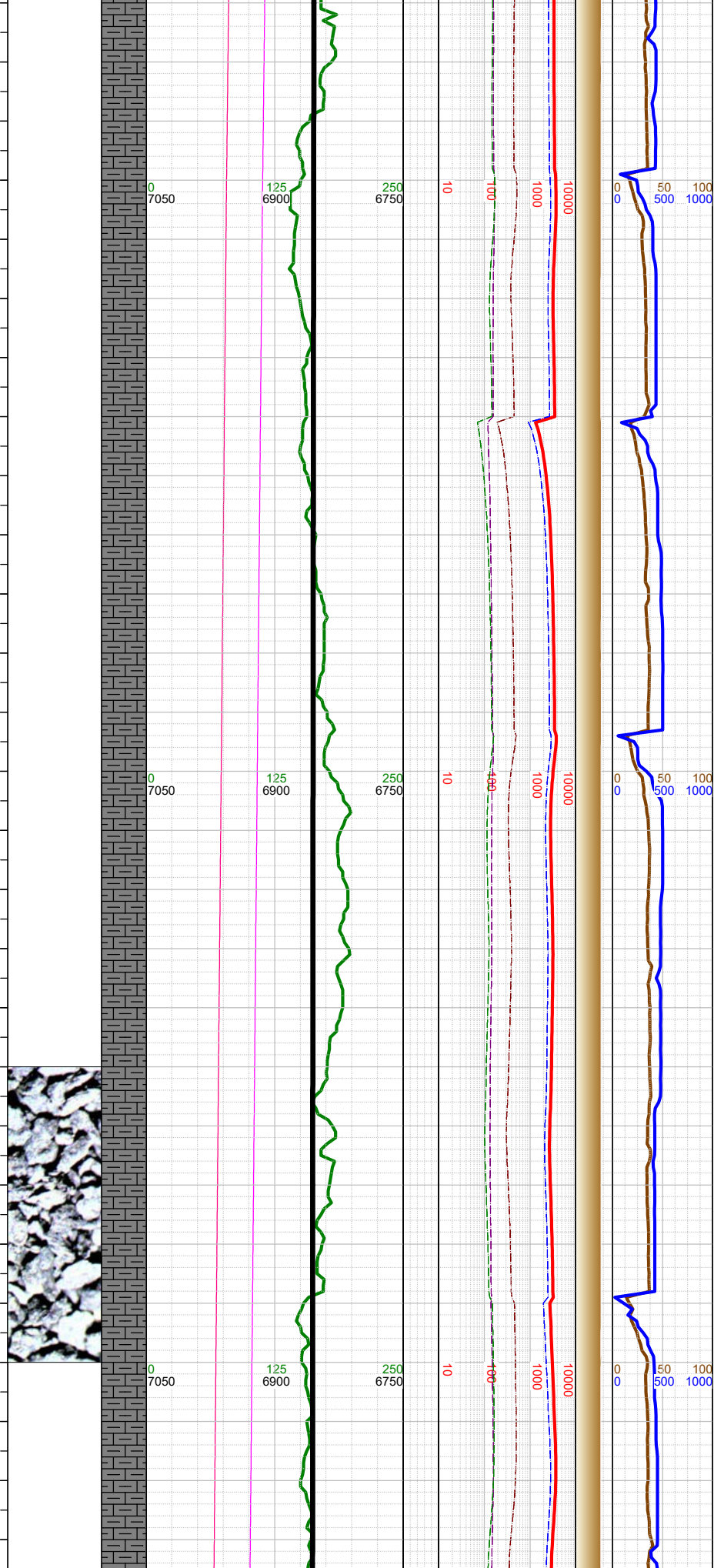
-16710 WT 9.1,
VIS 46

-16750 MARL: dk gy-blk,
subblky-subplty, sft-subfrm,
mod calc, sl arg; CHK: lt
gy, sft-subfrm, subblky,
mot, v calc, rthy-sl wxy lstr;
tr forams; tr fos frags;

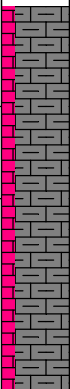




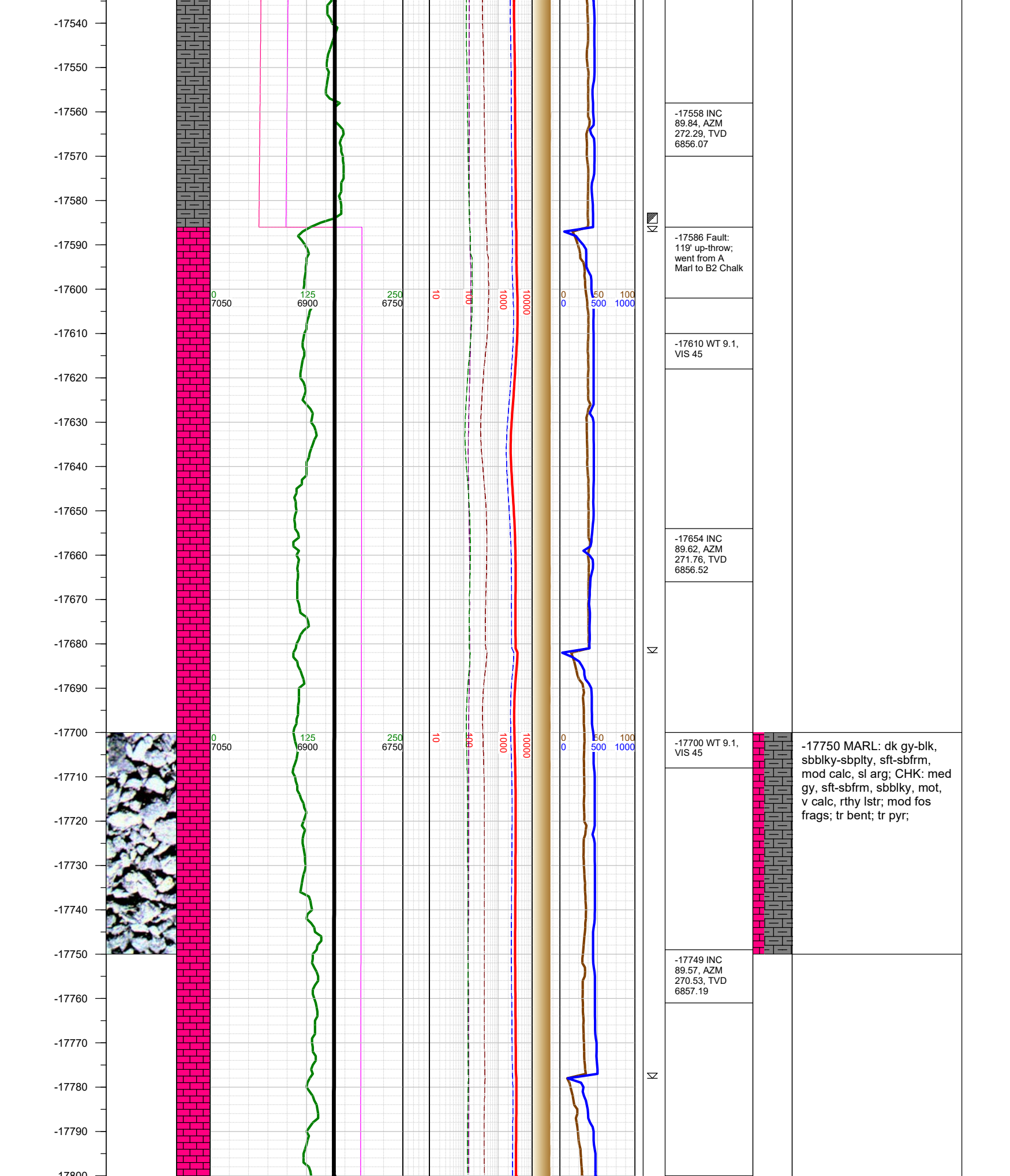
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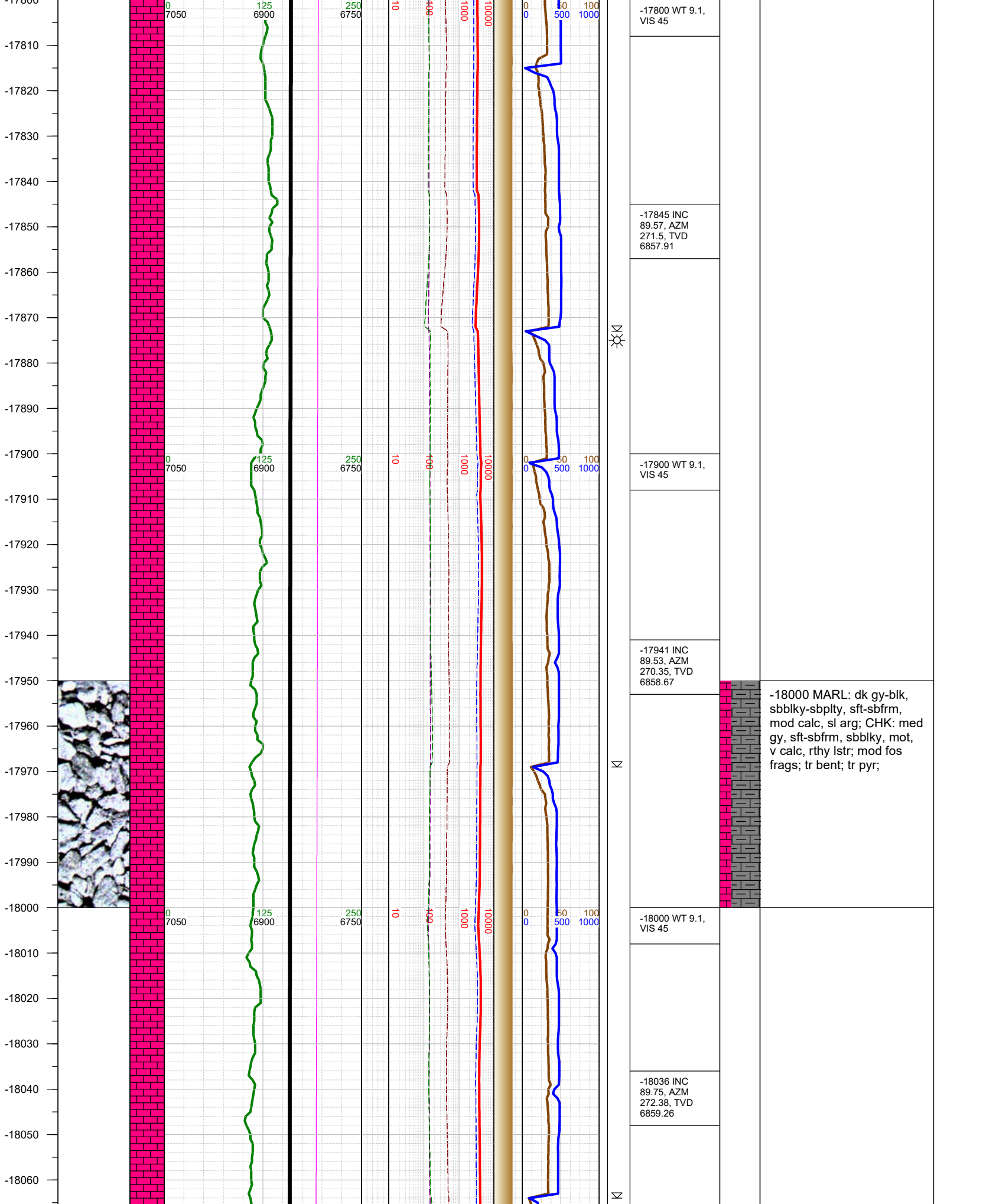


N	-17272 INC 89.53, AZM 270.57, TVD 6854.41
	-17300 WT 9.1, VIS 45
	-17367 INC 89.53, AZM 270.48, TVD 6855.19
N	-17400 WT 9.1, VIS 45
	-17463 INC 89.79, AZM 272.12, TVD 6855.76
	-17500 WT 9.1, VIS 45

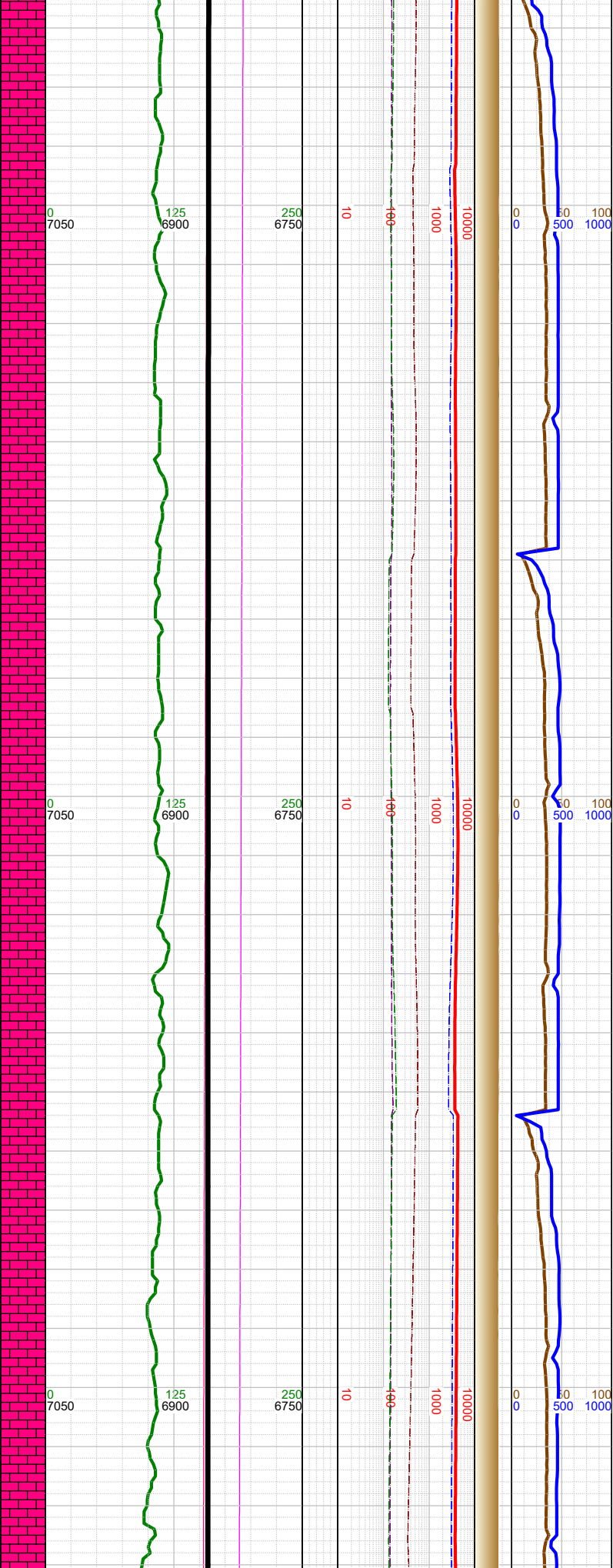


-17500 MARL: dk gy-blk,
subbly-subplty, sft-subfrm,
mod calc, sl arg; CHK: lt
gy, sft-subfrm, subbly,
mot, v calc, rthy-sl wxy lstr;
tr forams; tr fos frags;





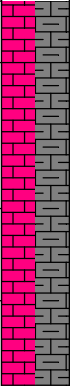
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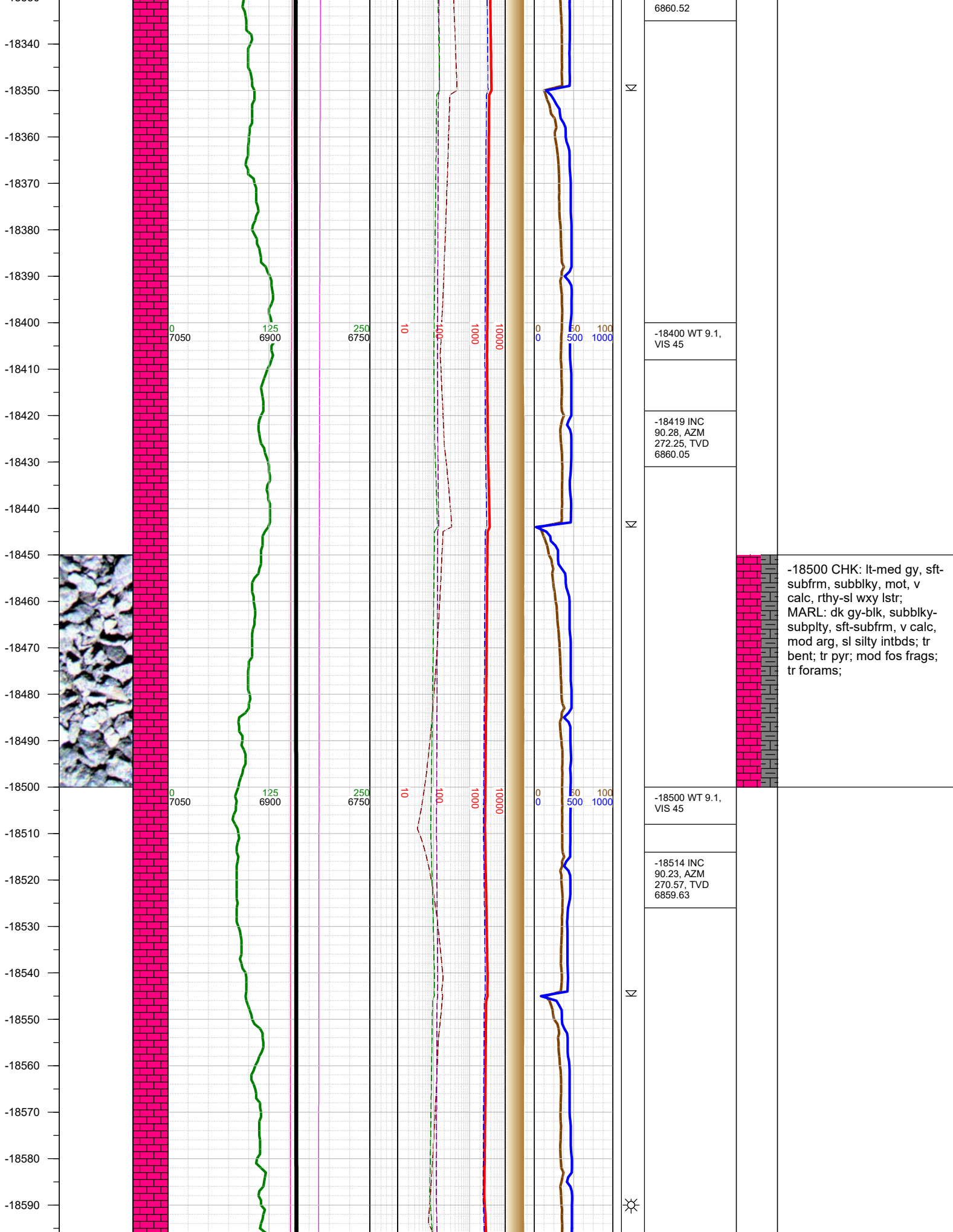
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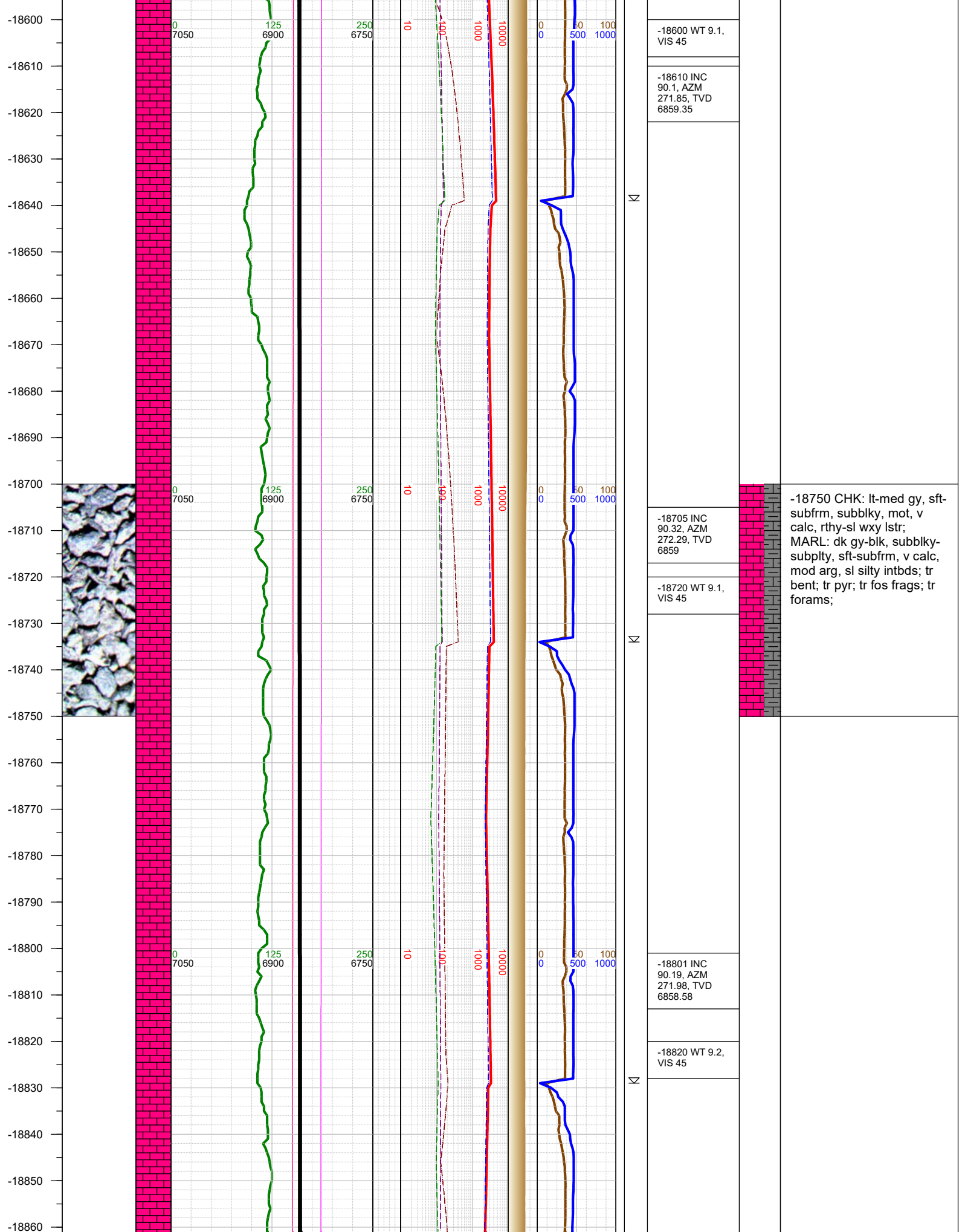
⊗

	-18100 WT 9.1, VIS 45
	-18132 INC 89.66, AZM 271.45, TVD 6859.76
	-18200 WT 9.1, VIS 45
	-18227 INC 89.57, AZM 271.15, TVD 6860.4
	-18300 WT 9.1, VIS 45
	-18323 INC 90.28, AZM 272.25, TVD

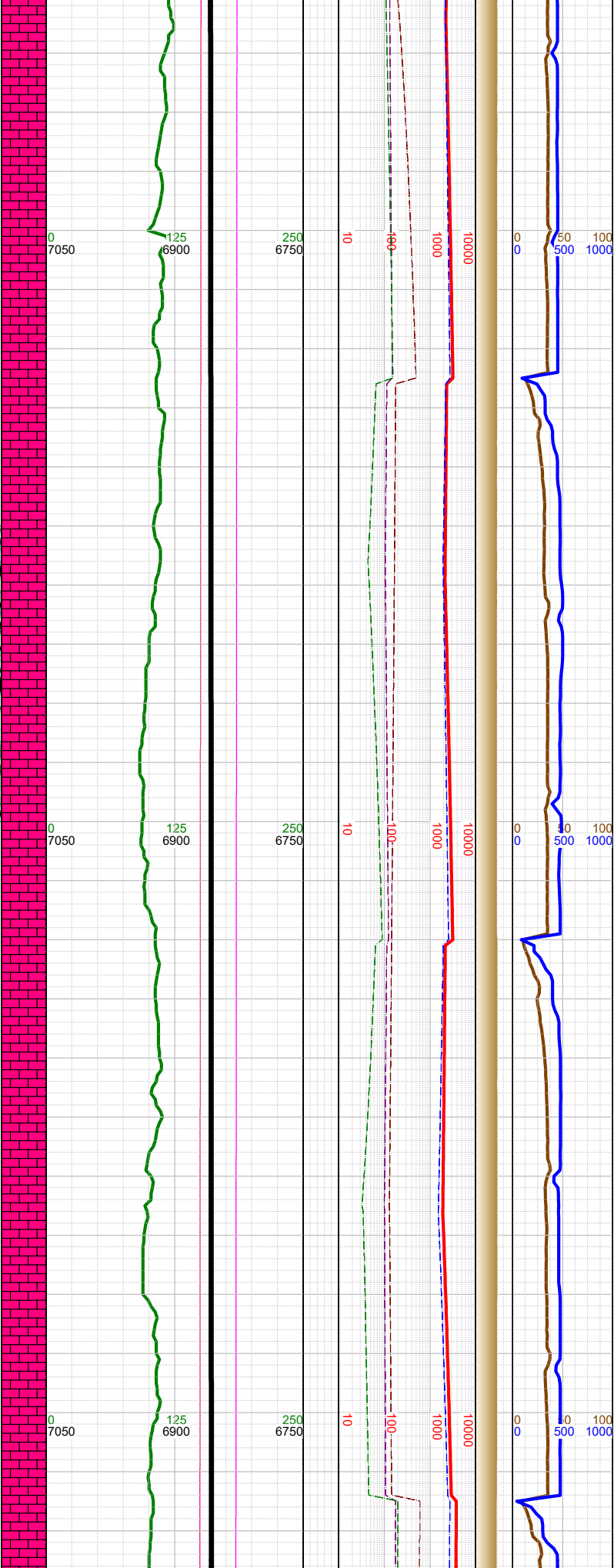
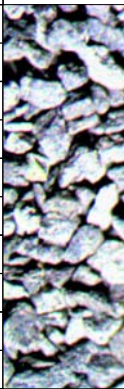


-18250 MARL: dk gy-blk,
sbbiky-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: med
gy, sft-sbfrm, sbbiky, mot,
v calc, rthy lstr; mod fos
frags; tr bent; tr pyr;





-18870
-18880
-18890
-18900
-18910
-18920
-18930
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-18970
-18980
-18990
-19000
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-19090
-19100
-19110
-19120



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-18896 INC
90.32, AZM
272.16, TVD
6858.15

-18910 WT 9.2,
VIS 45

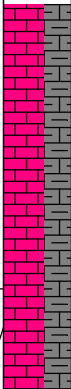
-18987 0000 hrs
on 6/15/2018

-18992 INC
90.28, AZM
271.19, TVD
6857.65

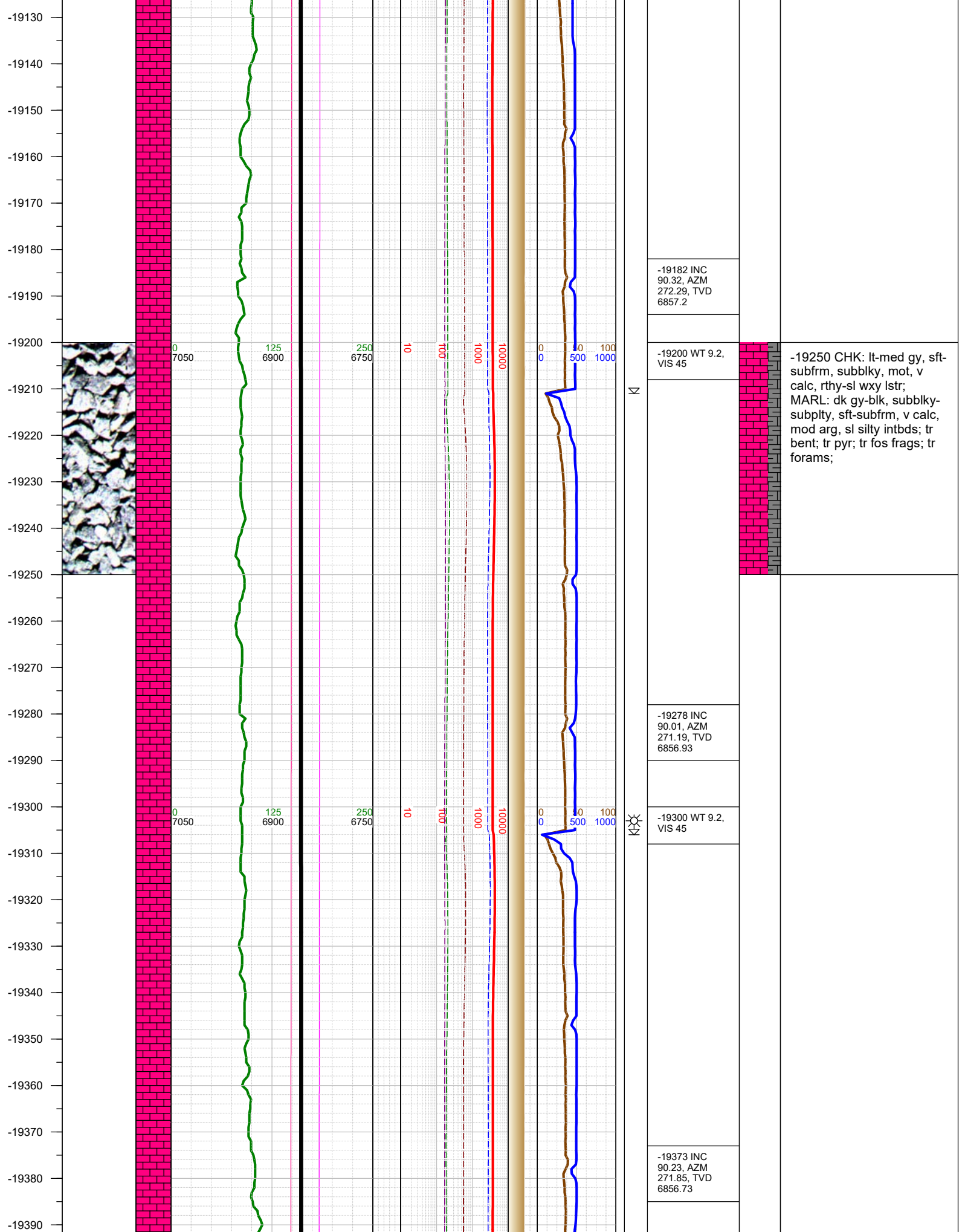
-19010 WT 9.2,
VIS 45

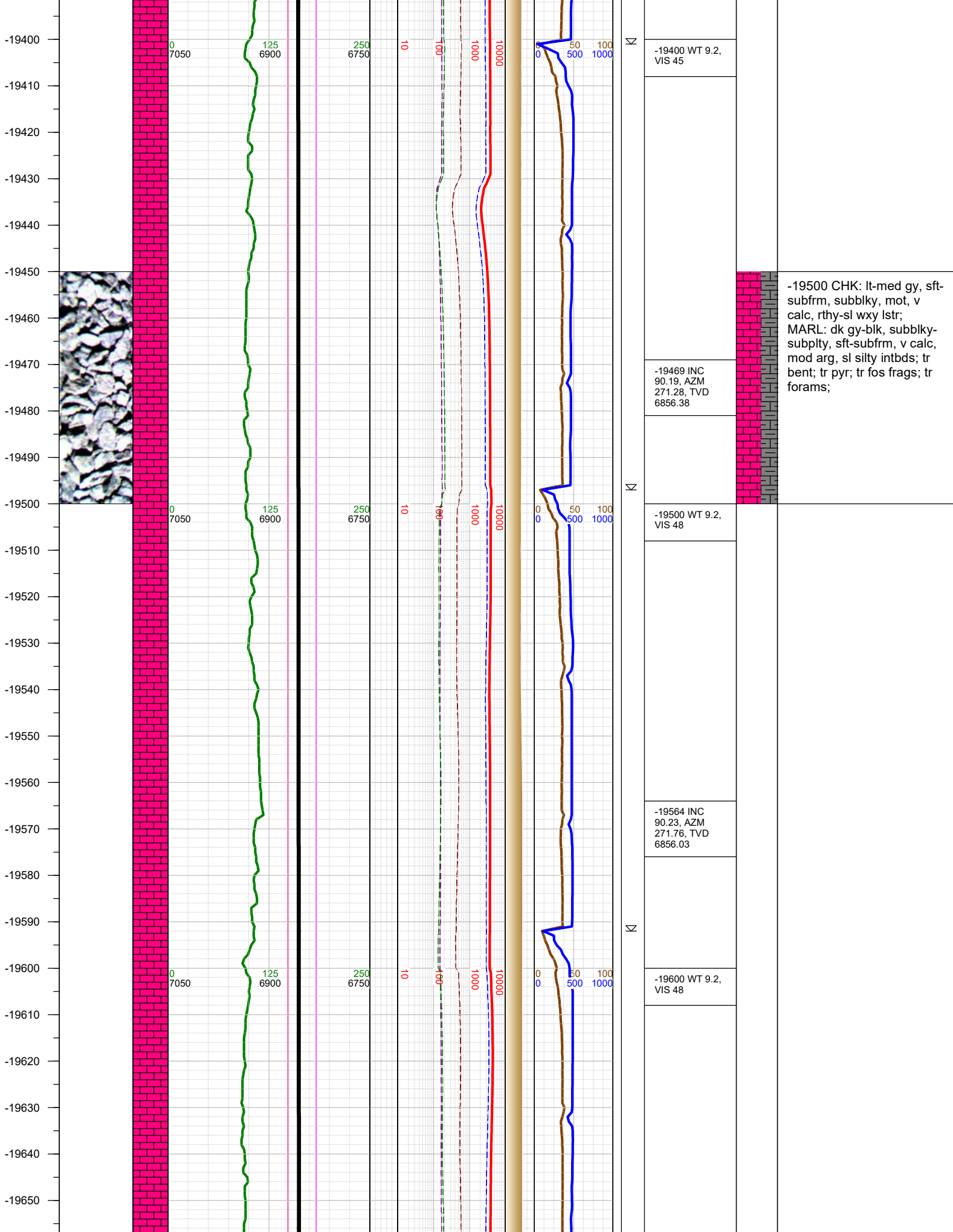
-19087 INC
89.97, AZM
270.53, TVD
6857.44

-19100 WT 9.2,
VIS 45

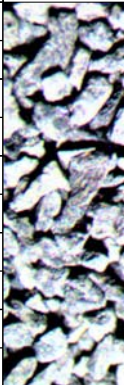


-19000 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subply, sft-subfrm, v calc, mod arg, sl silty intbds; tr bent; tr pyr; tr fos frags; tr forams;





-19660
-19670
-19680
-19690
-19700
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-19720
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-19800
-19810
-19820
-19830
-19840
-19850
-19860
-19870
-19880
-19890
-19900
-19910
-19920



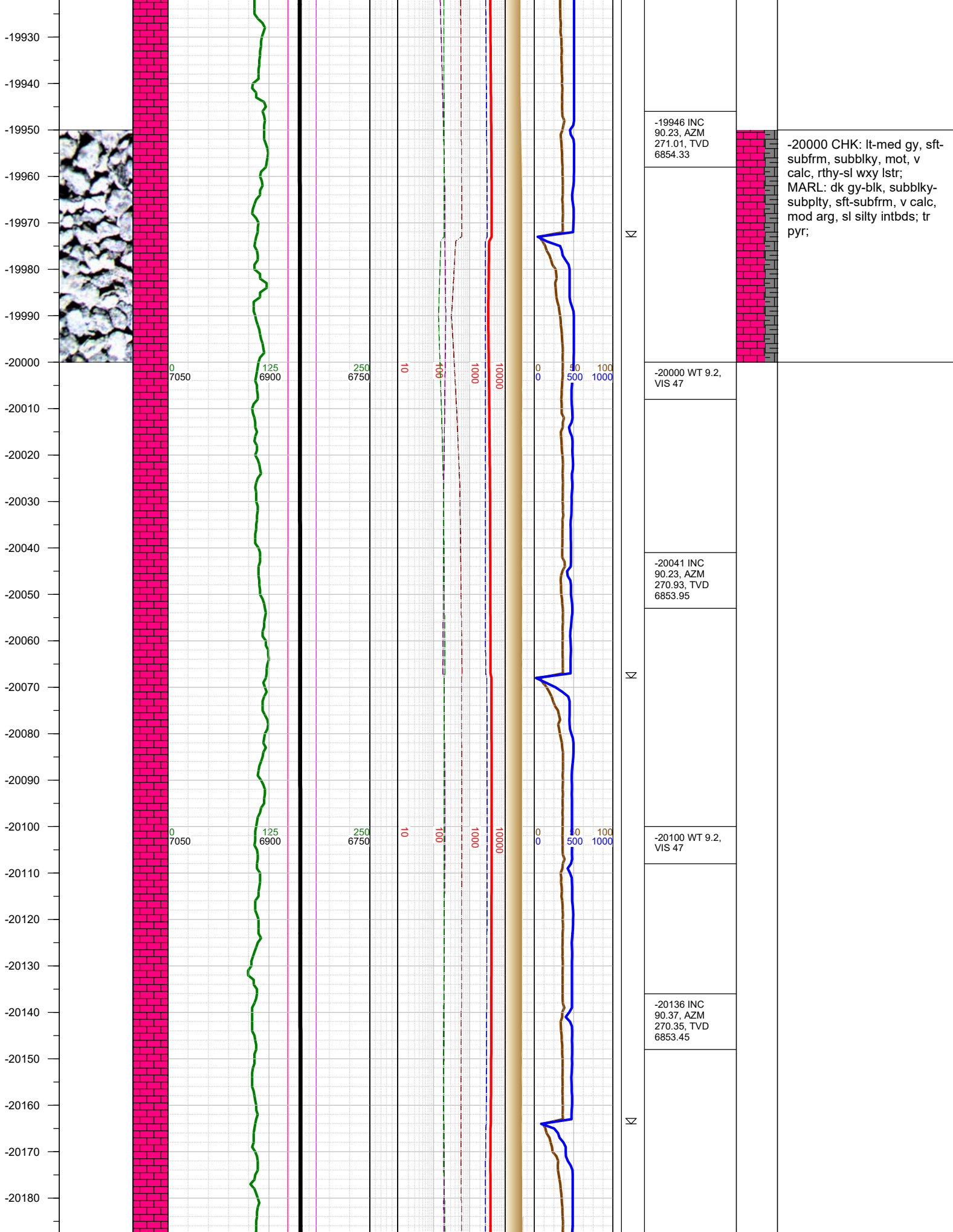
XX

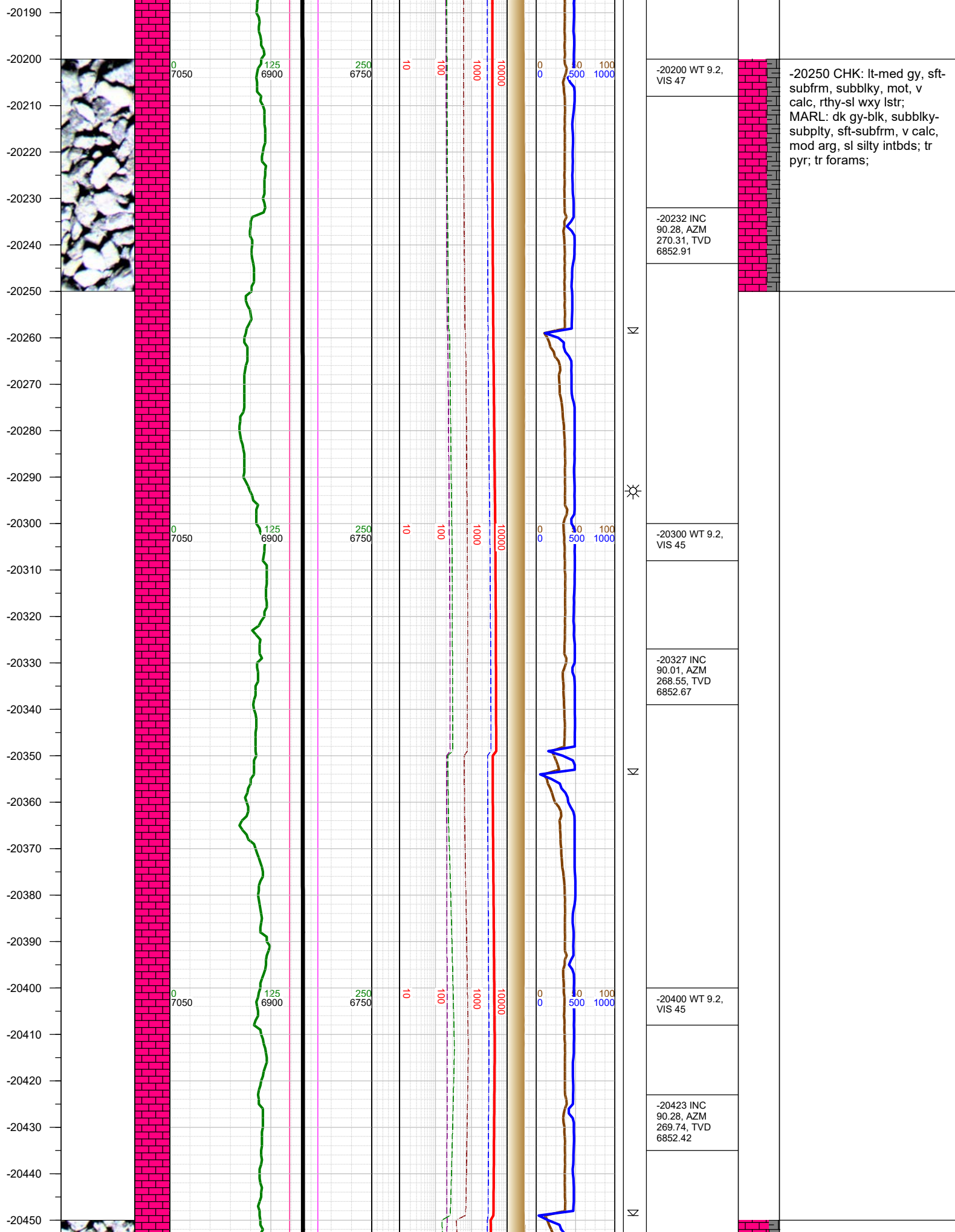
N

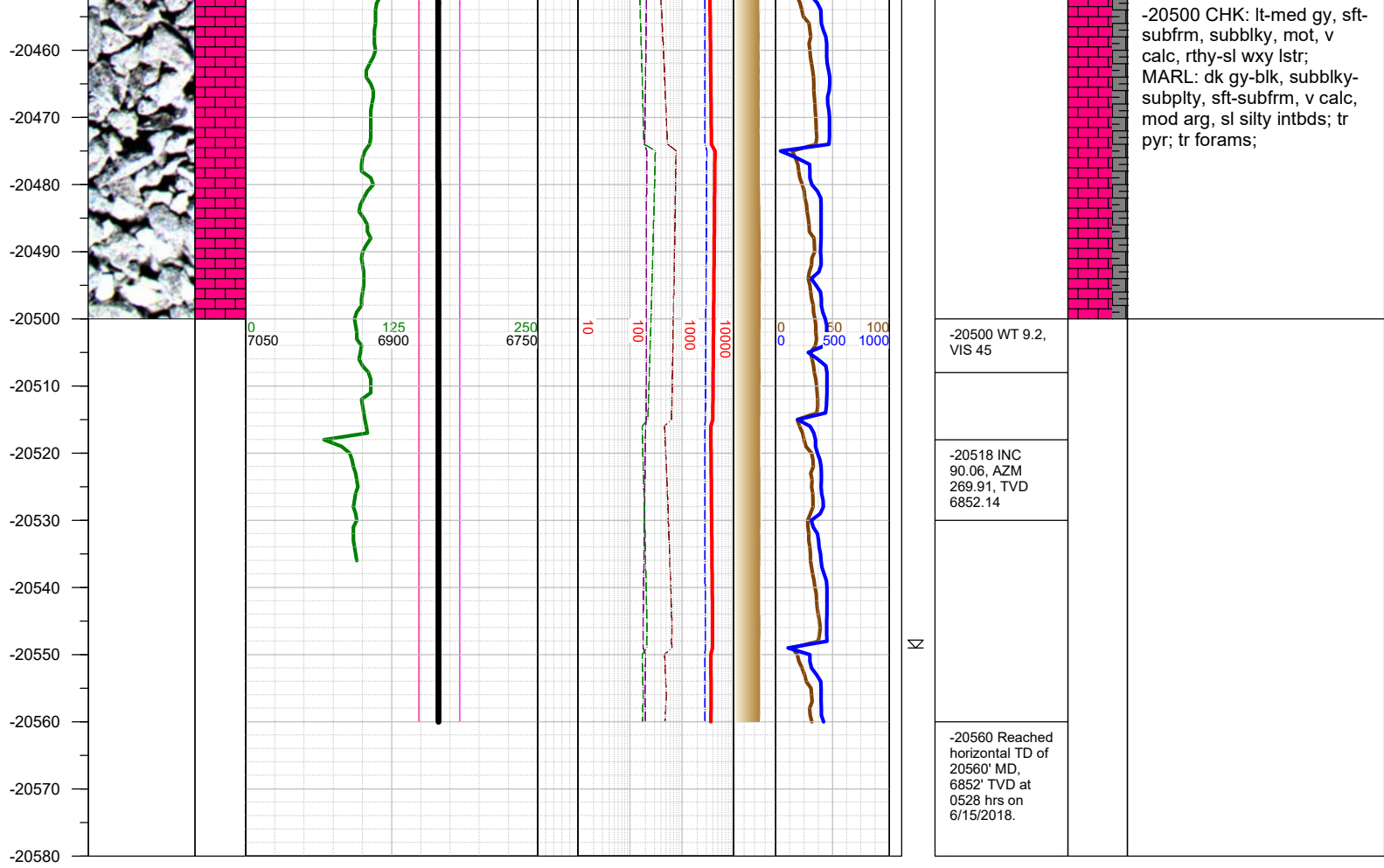
N

-19660 INC 90.32, AZM 271.76, TVD 6855.57	
-19700 WT 9.2, VIS 48	
-19755 INC 90.28, AZM 270.93, TVD 6855.07	
-19800 WT 9.2, VIS 48	
-19850 INC 90.19, AZM 270.09, TVD 6854.68	
-19900 WT 9.2, VIS 47	

-19750 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr pyr;







TOTAL DEPTH = 20560'

Thank you for using Earth Science Agency