

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **VT LDS 2-16-18**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 901

API #: 05-123-44419

LAT/LONG: 40.4013, -104.65672

SURFACE HOLE: SWNW S15-T5N-R65W, 1889' FNL, 602' FWL

BOTTOM HOLE: S18-T5N-R65W, 990' FNL, 460' FWL



Earth Science Agency, LLC

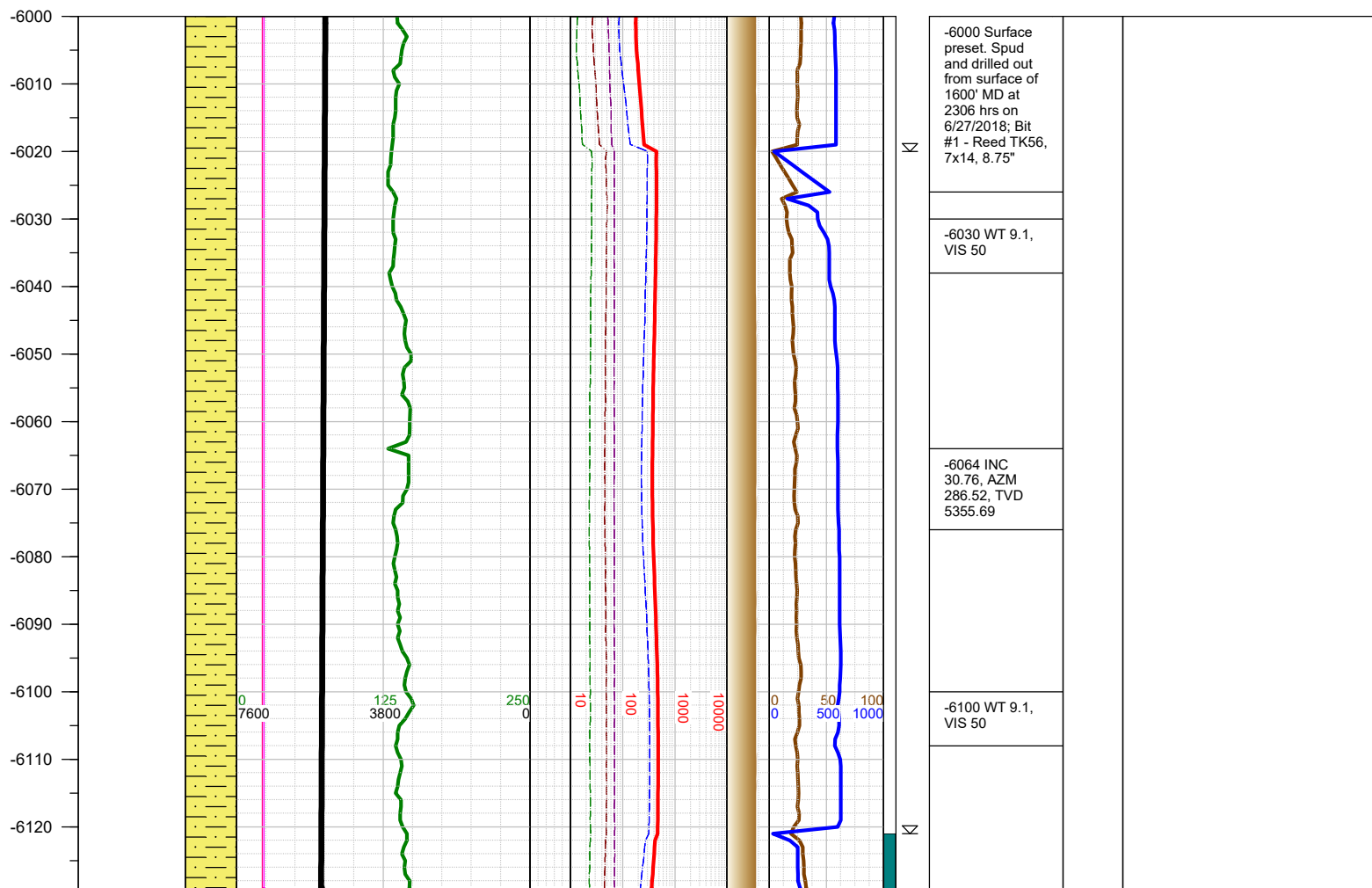
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4648'
KELLY BUSHING: 4677'
DRILLING FLUID: OBM
TVD VS. MD: 6846' / 20386'
SPUD DATE: June 27, 2018
TD DATE: July 1, 2018

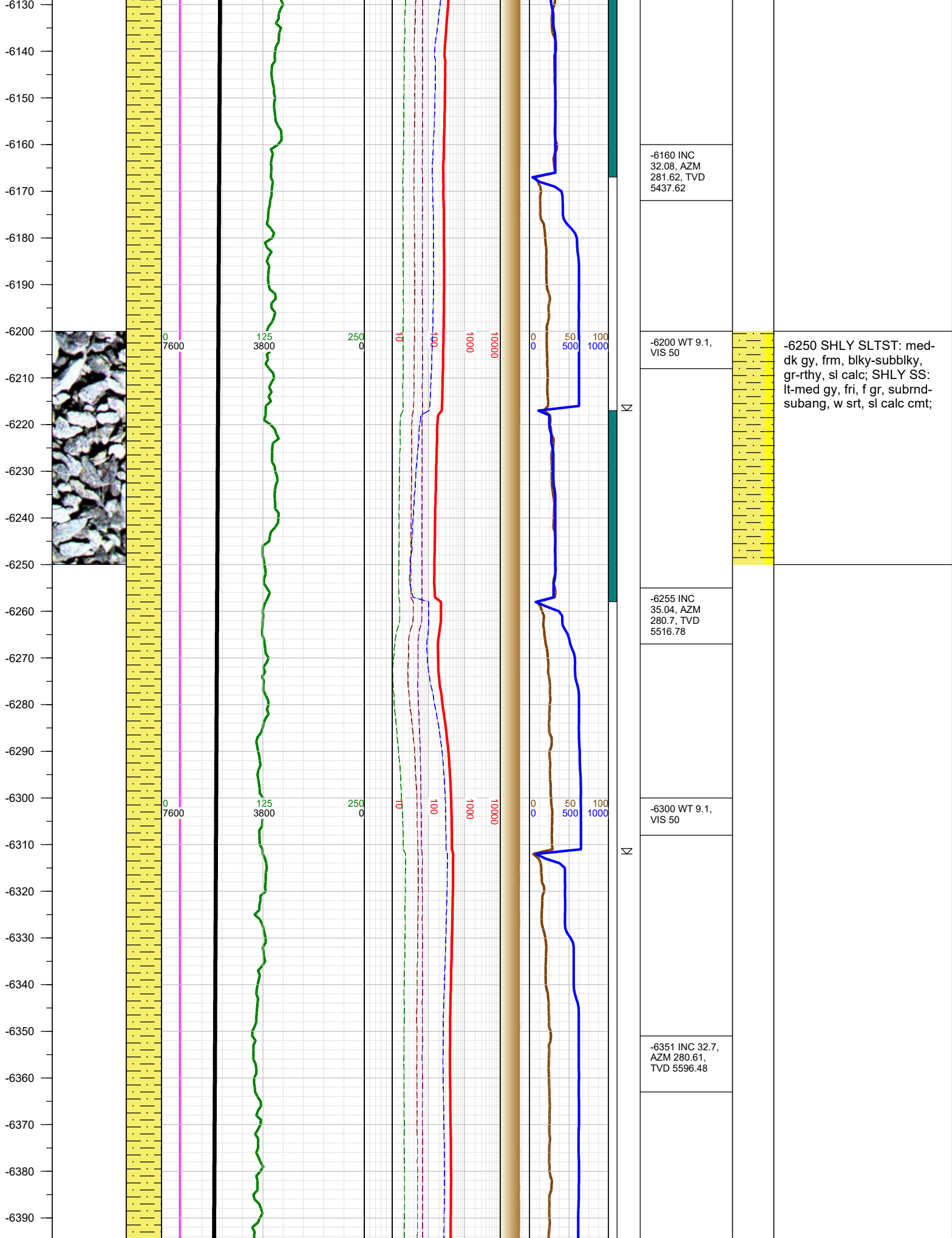
DEPTHS LOGGED: 6000' - 20386'
DATES LOGGED: June 28, 2018 - July 1, 2018
GEOLOGISTS: Blake Eatherton, Dan Jacobs
SCALE: 5" = 100'

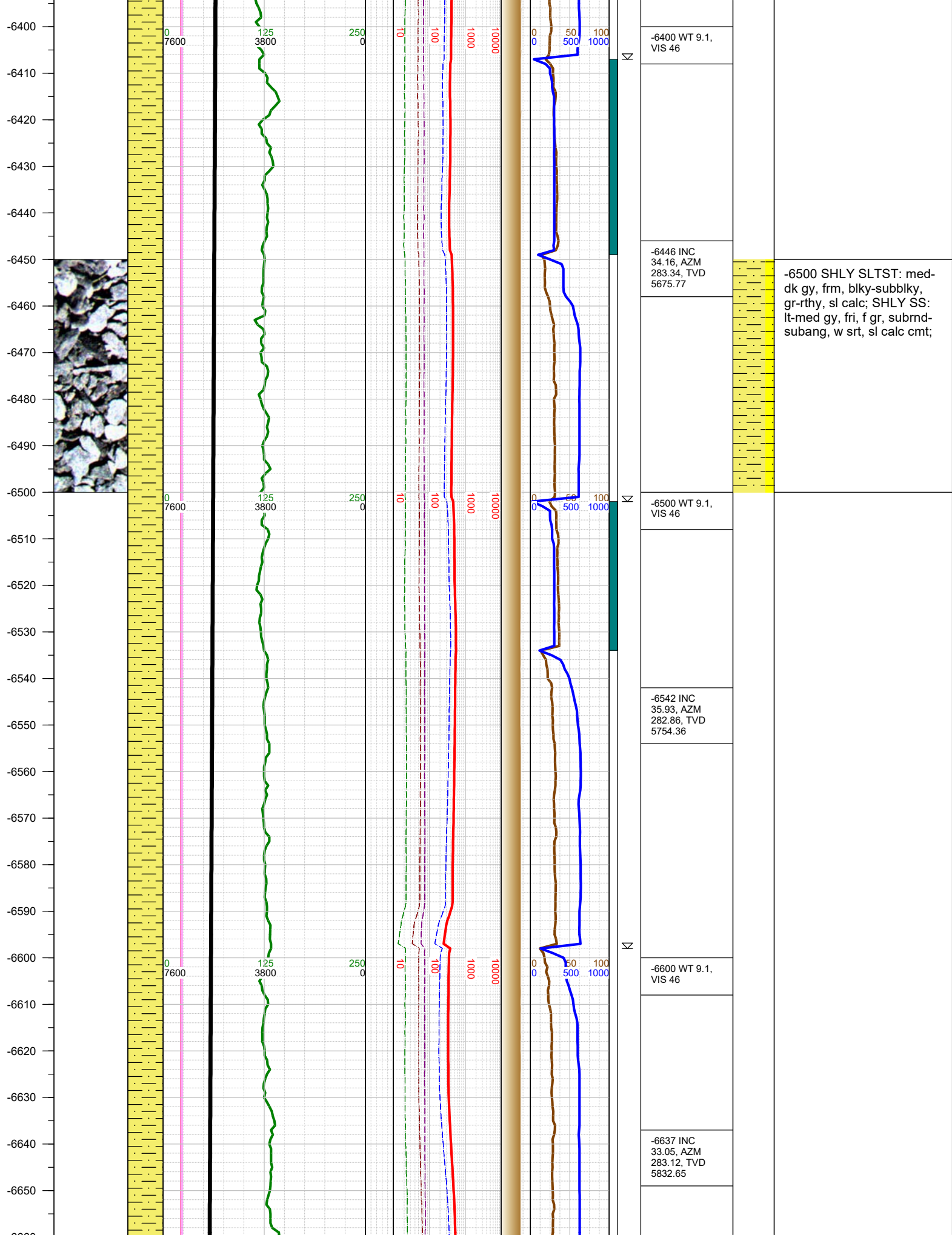
LEGEND

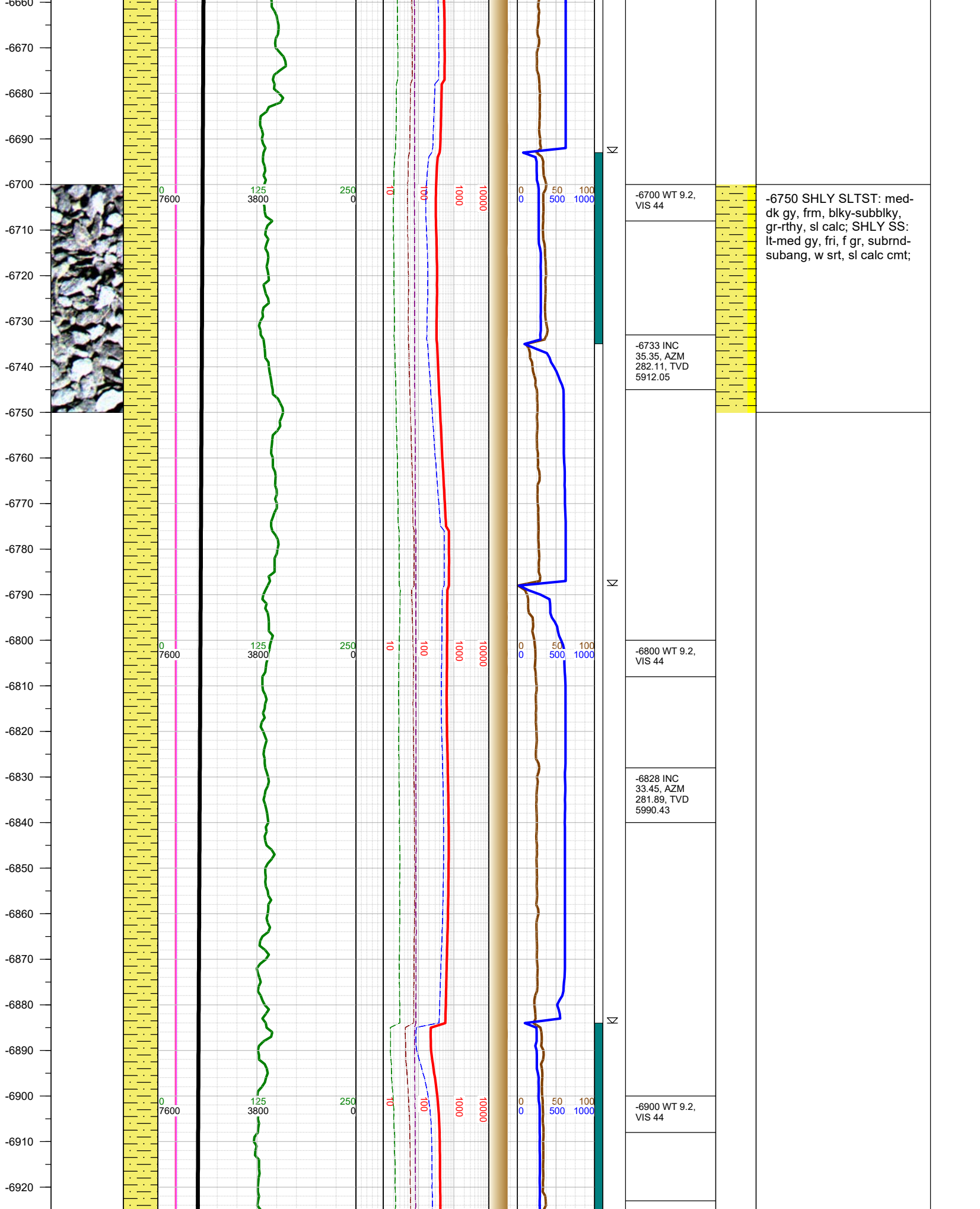


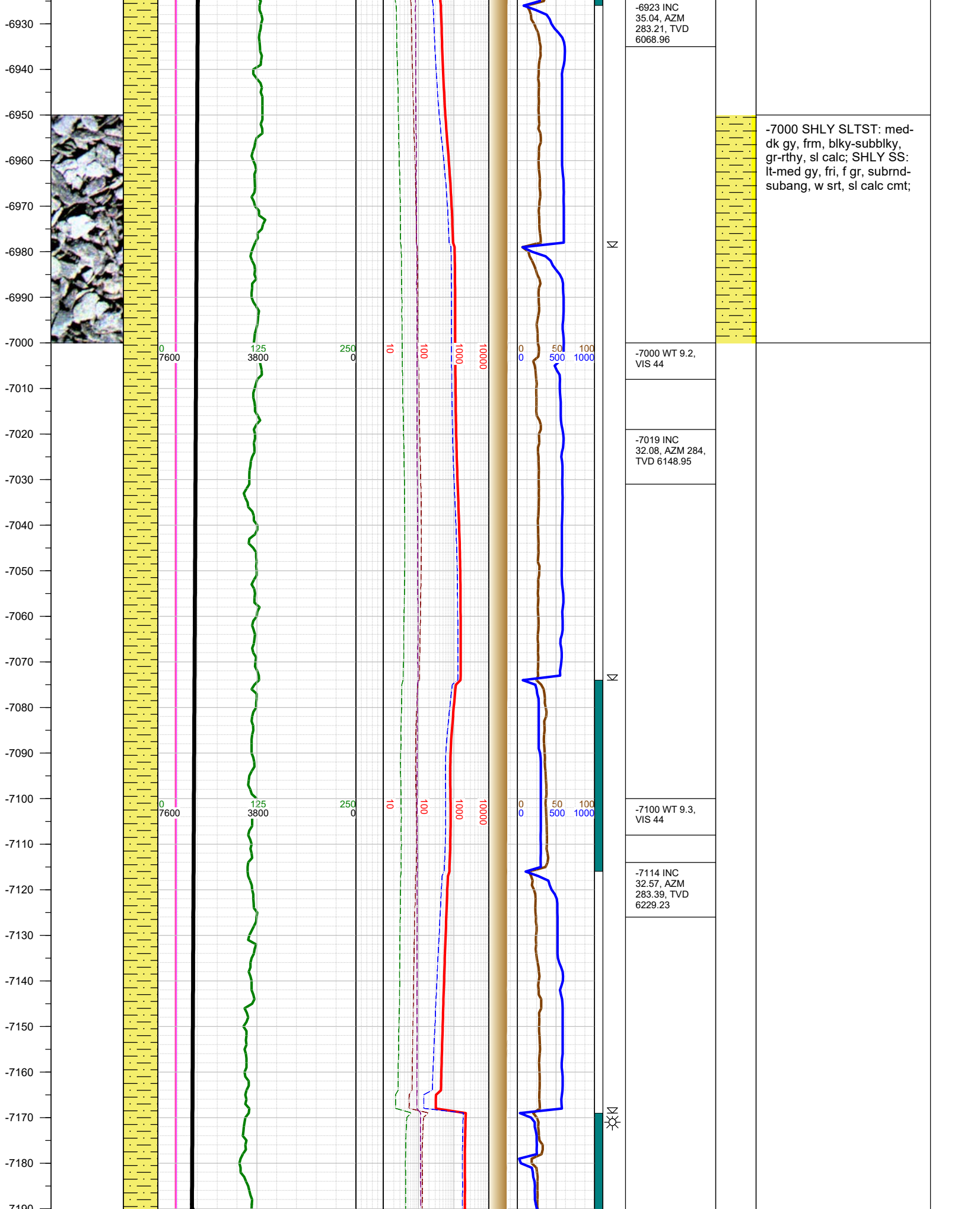
FORMATION \approx CONNECTION Δ MIDNIGHT NEW BIT GAS SHOW FAULT

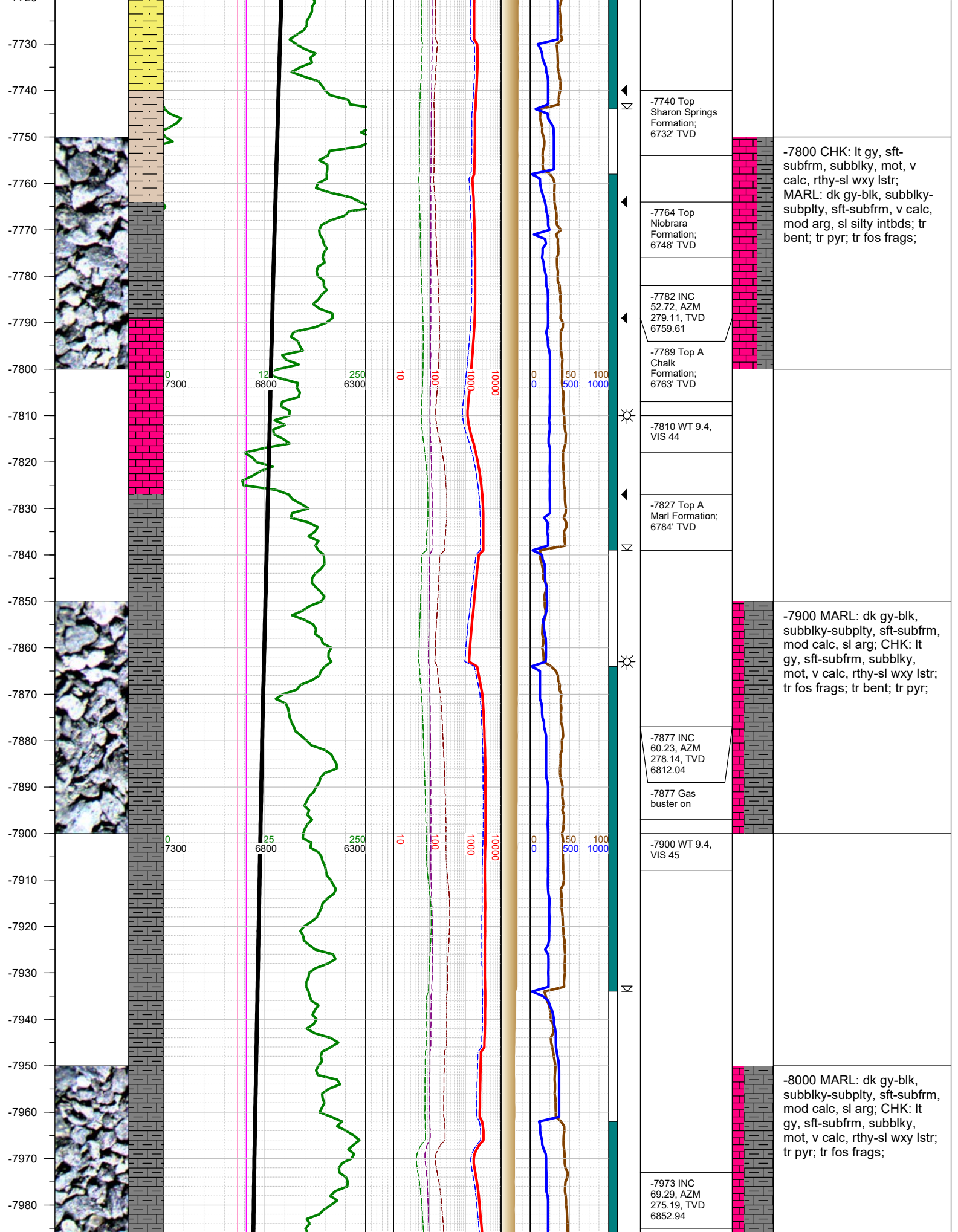


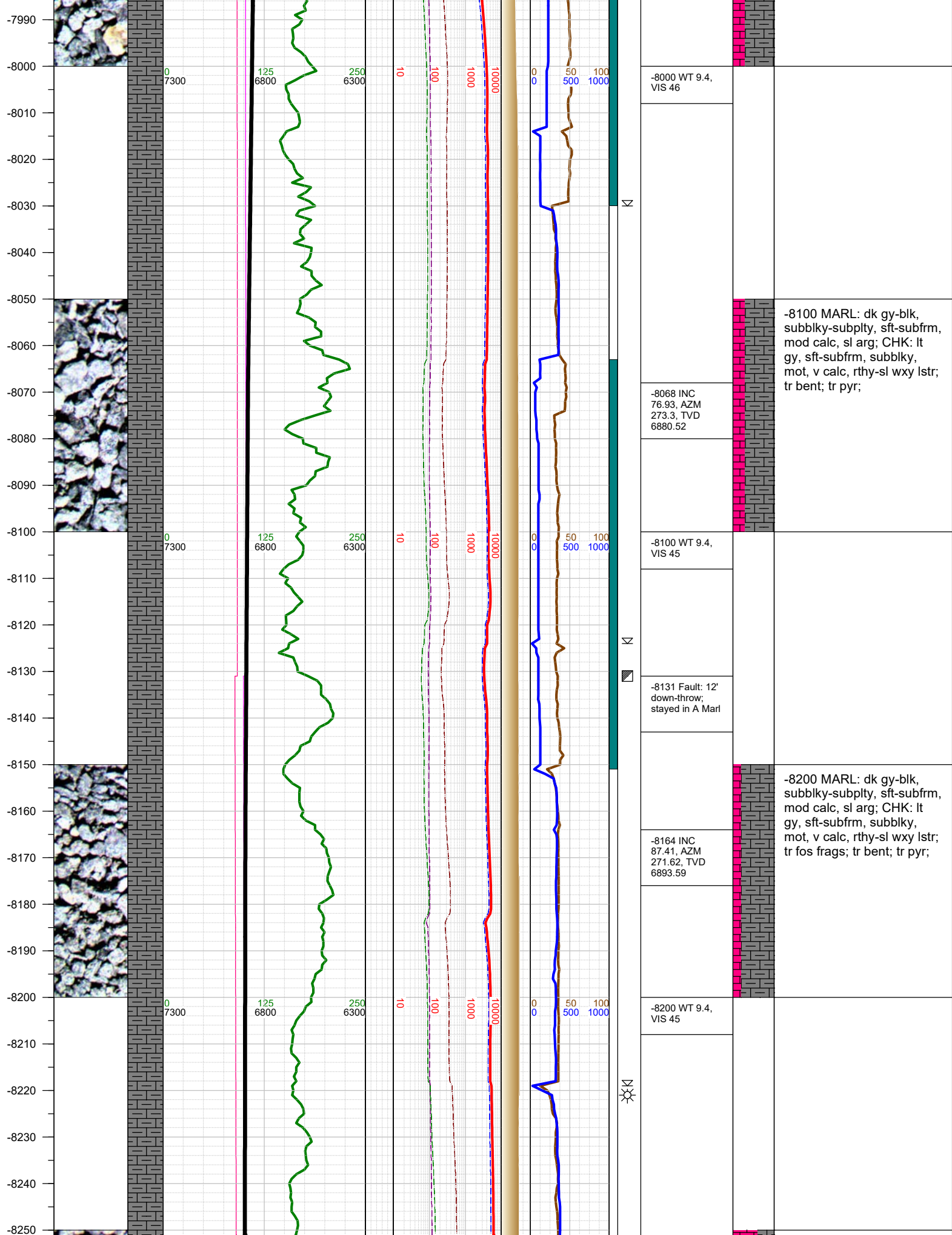


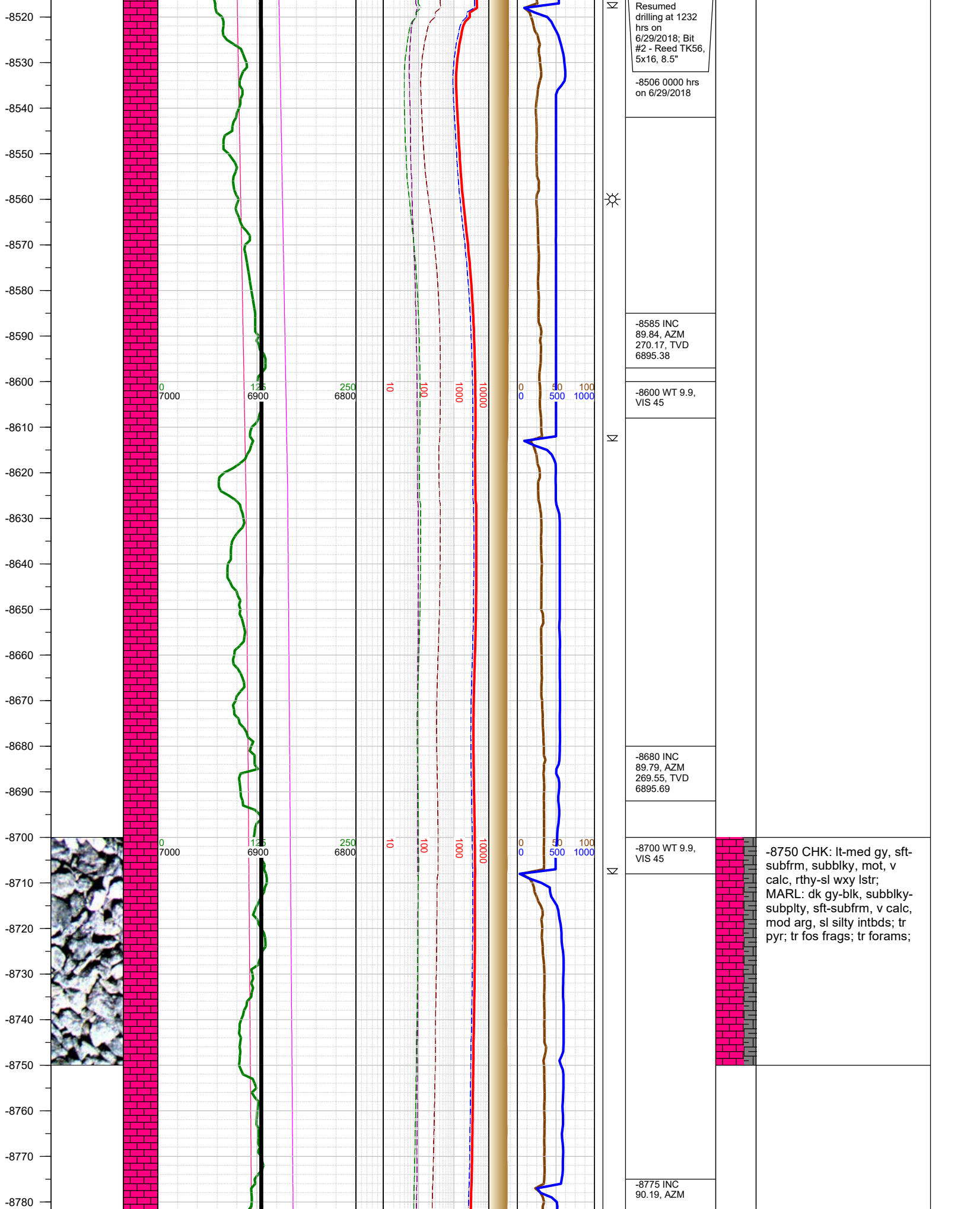


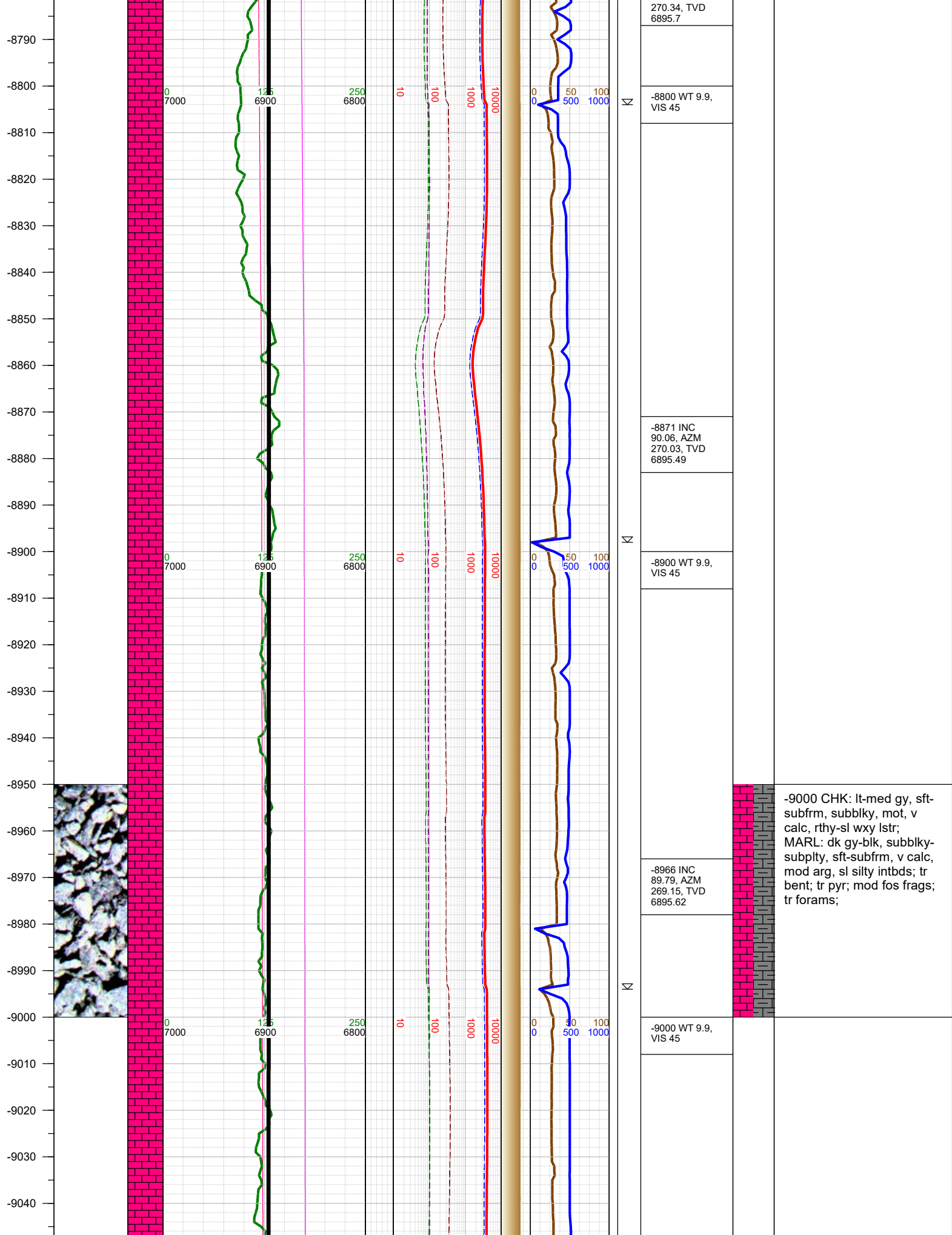




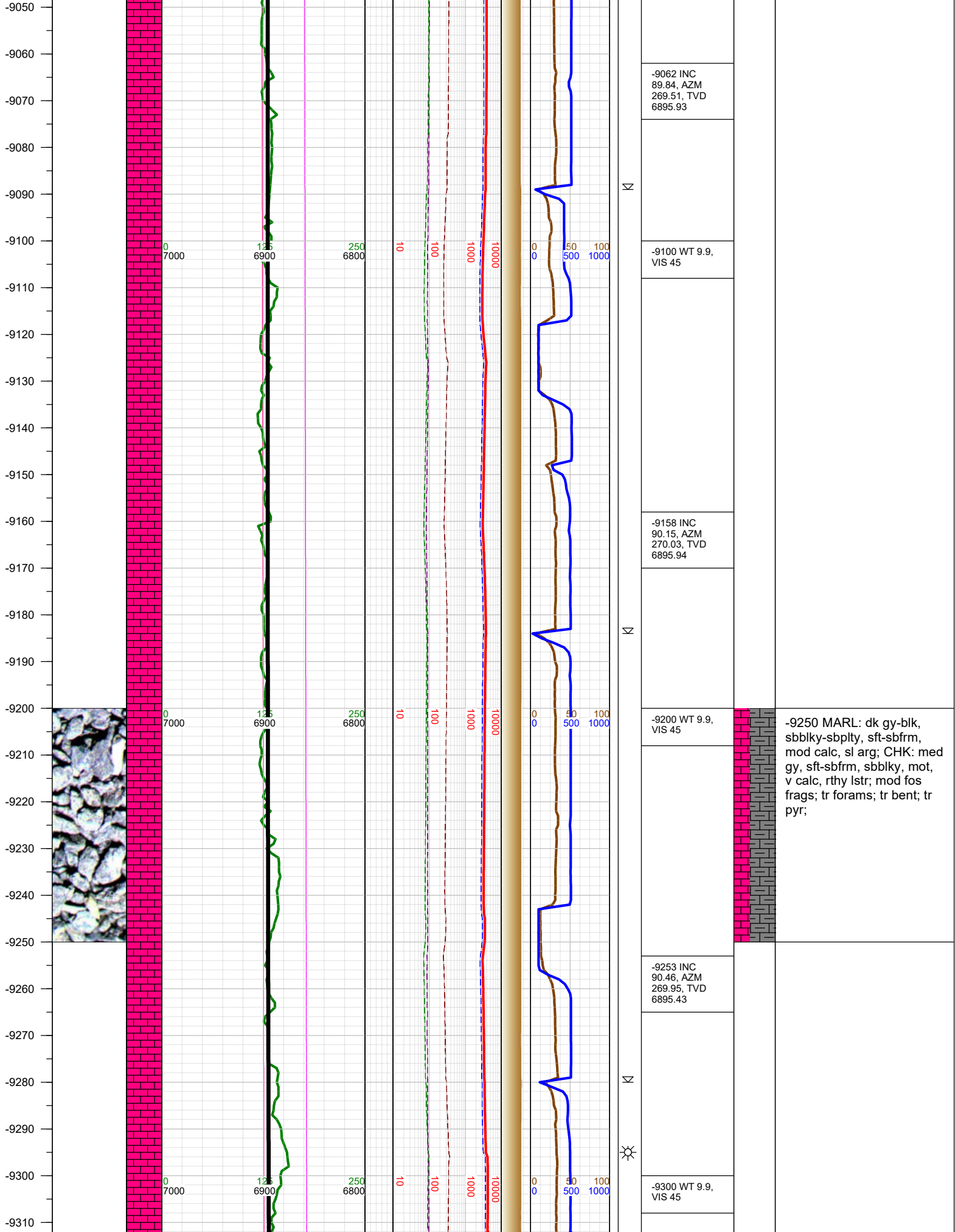


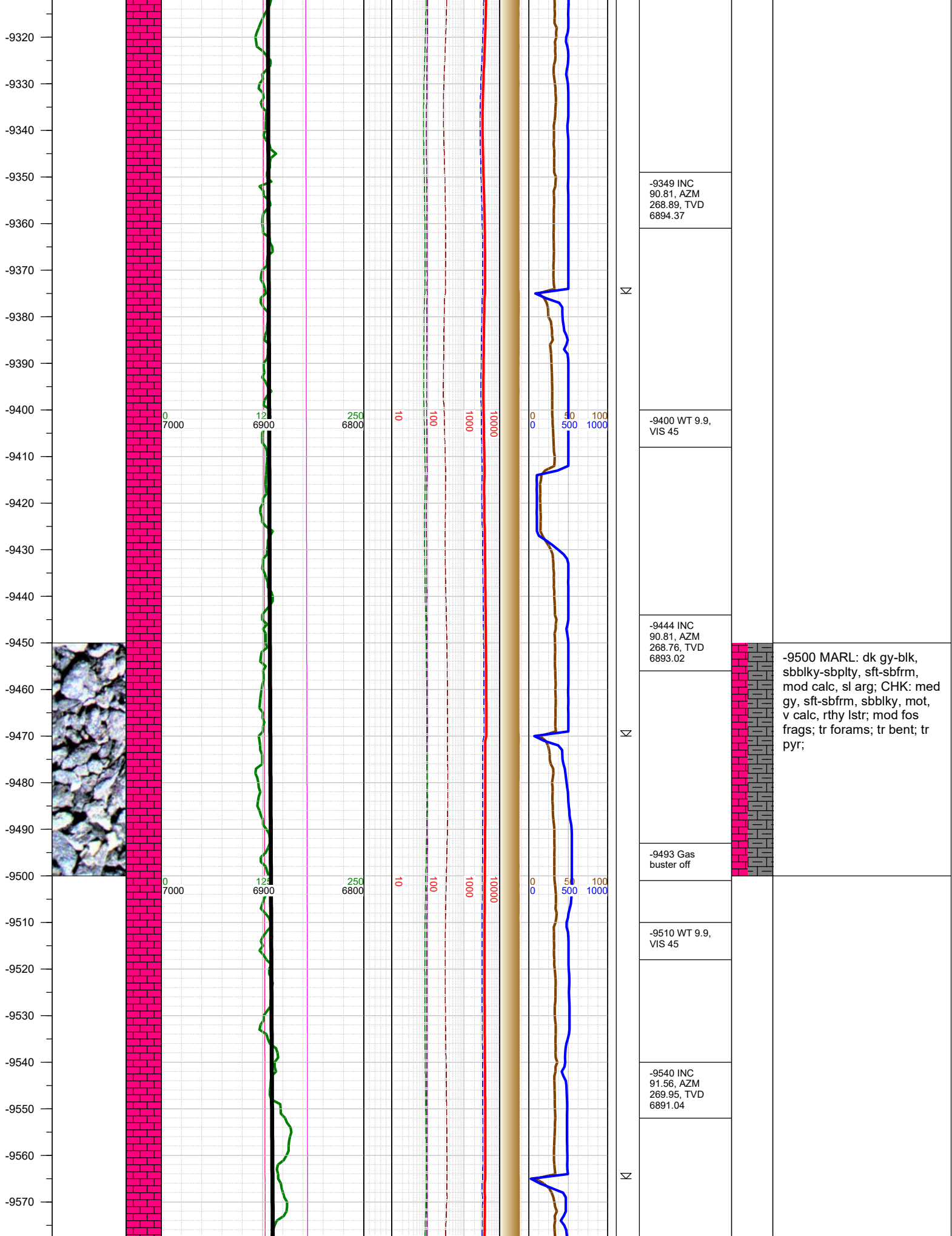


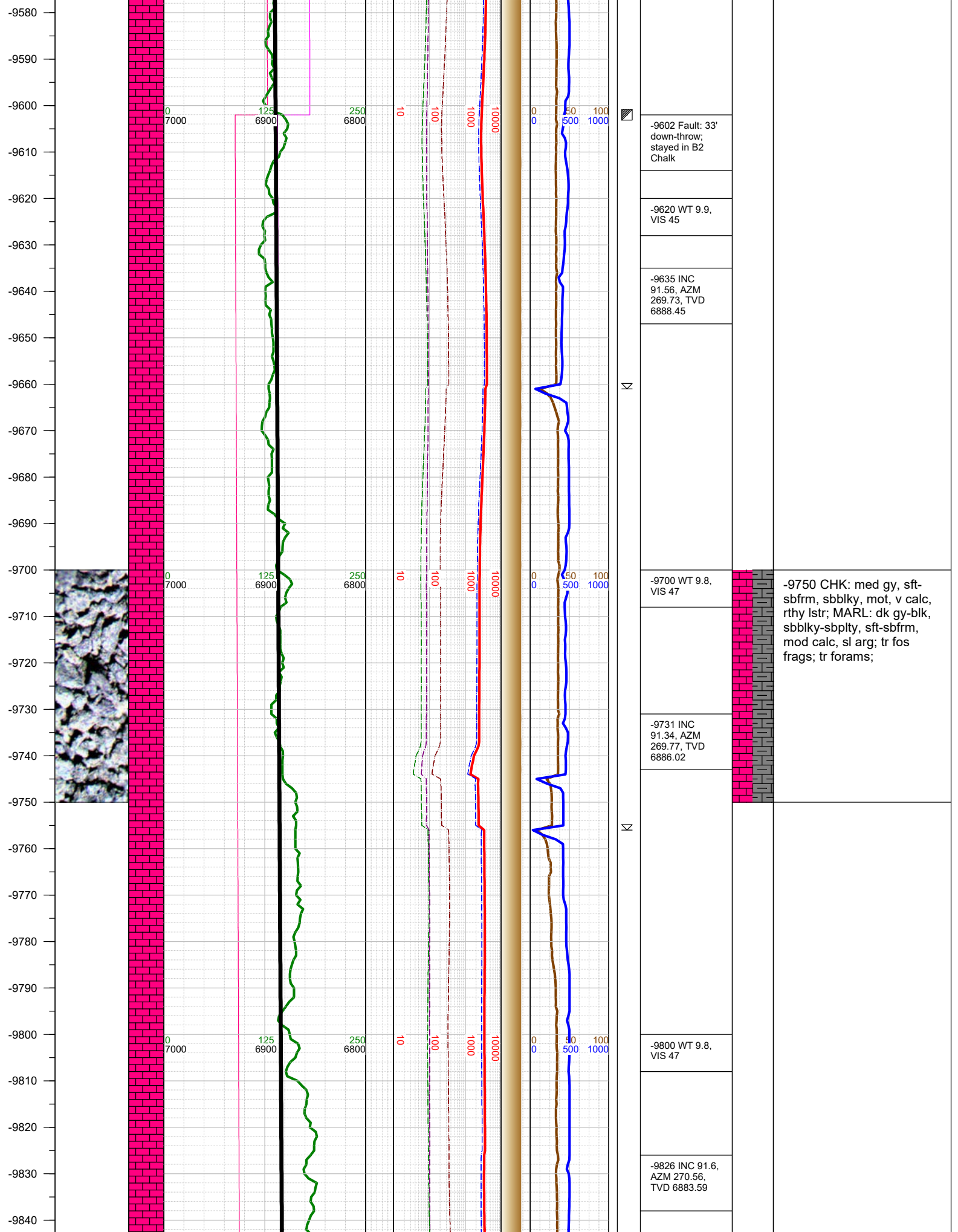


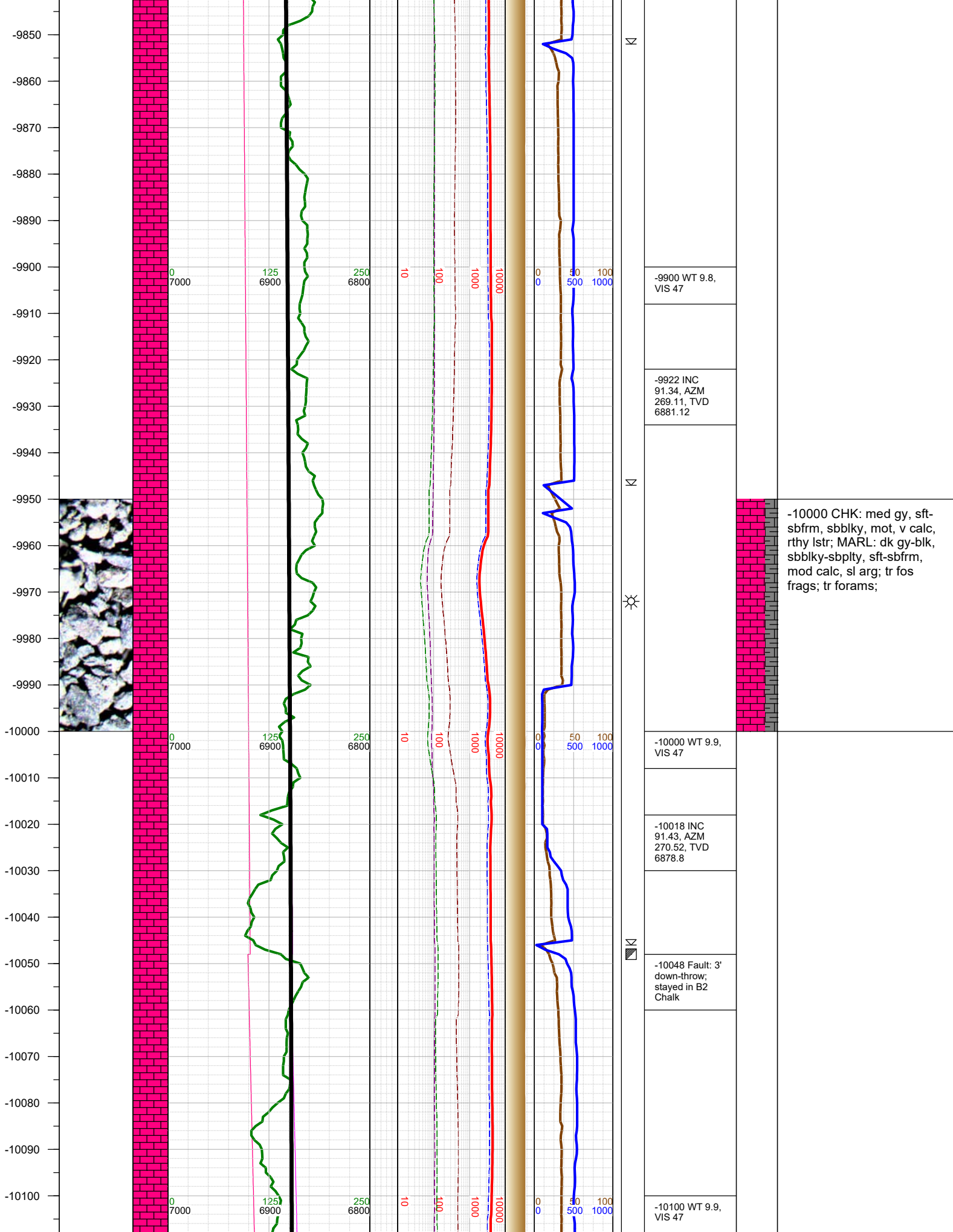


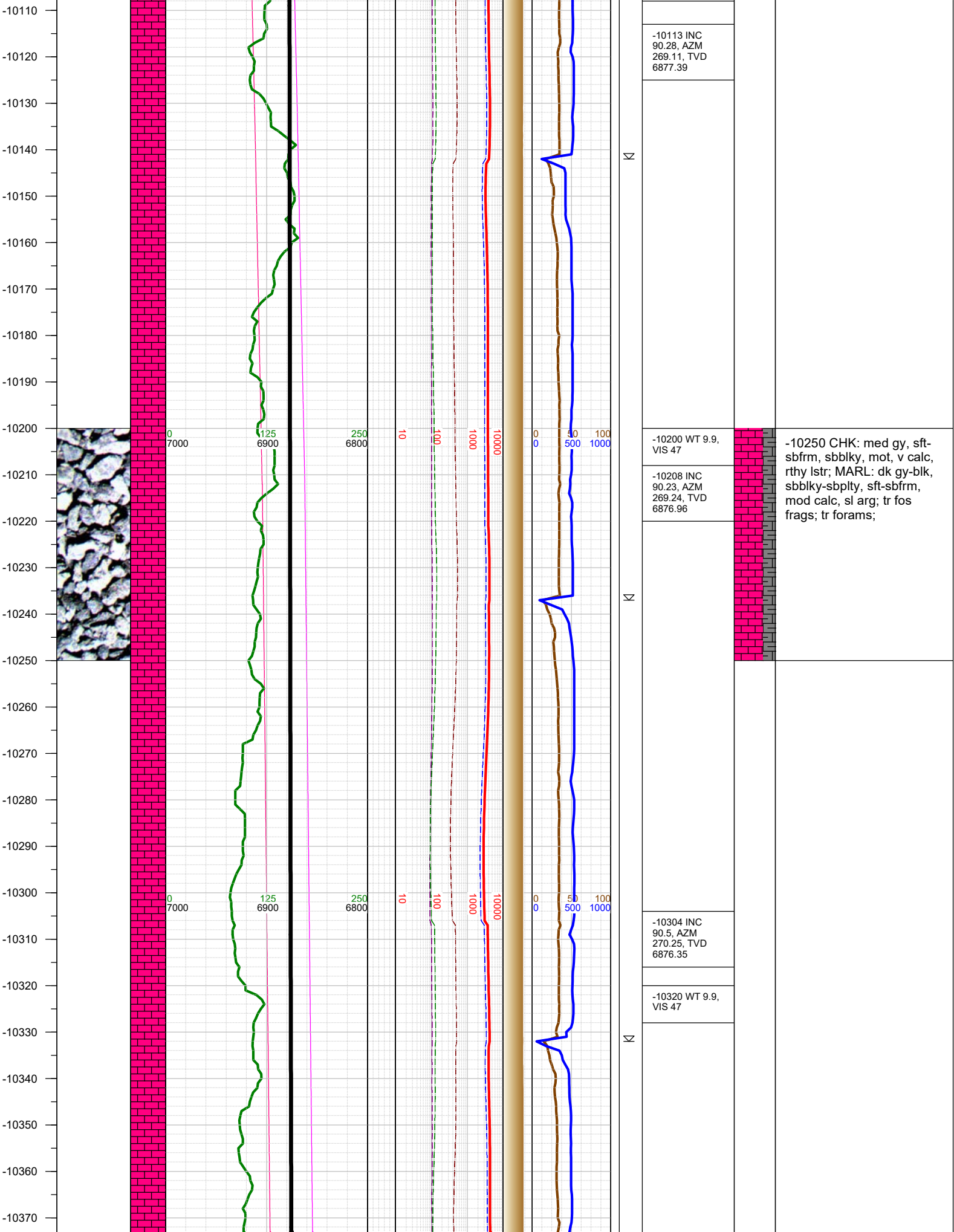
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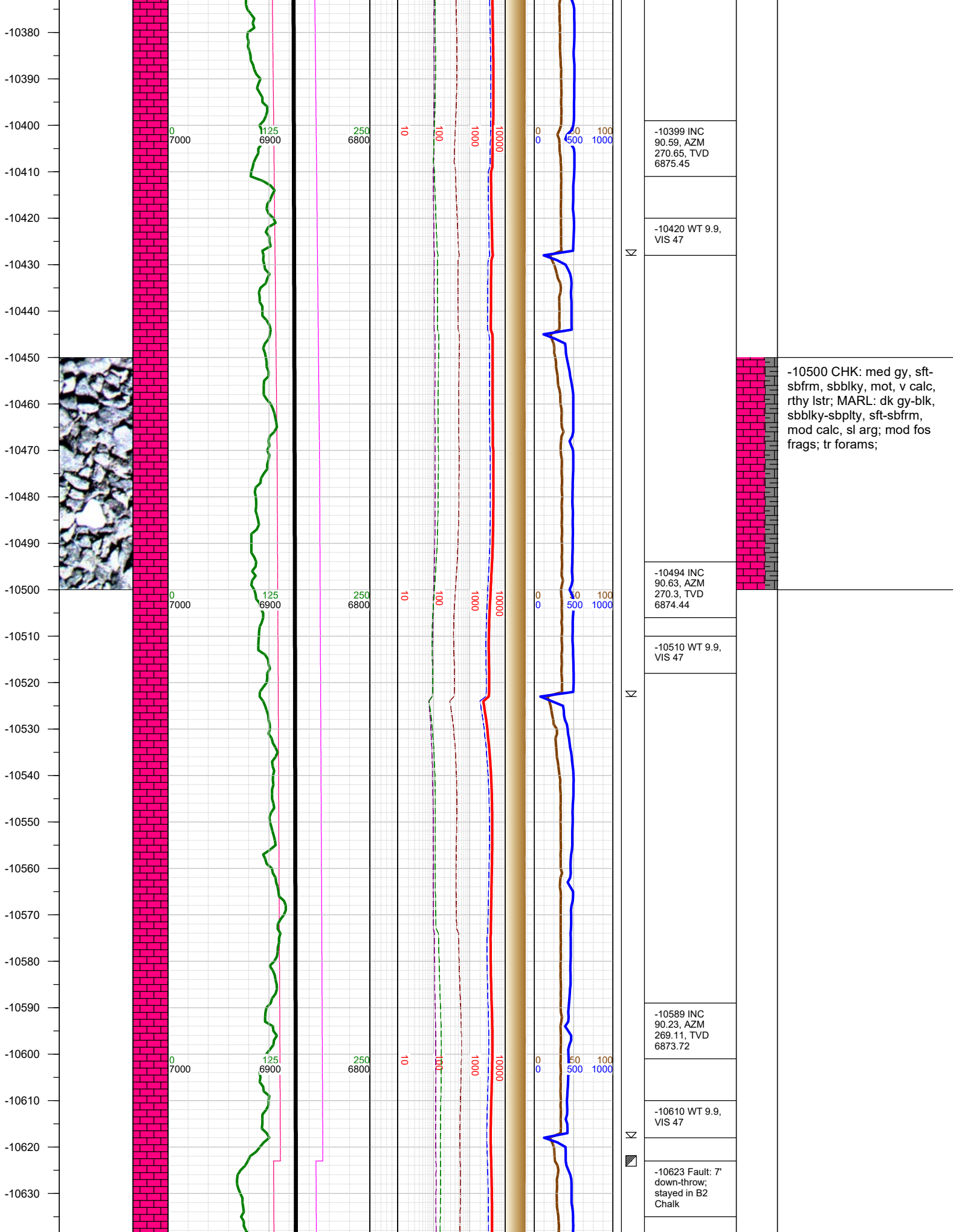




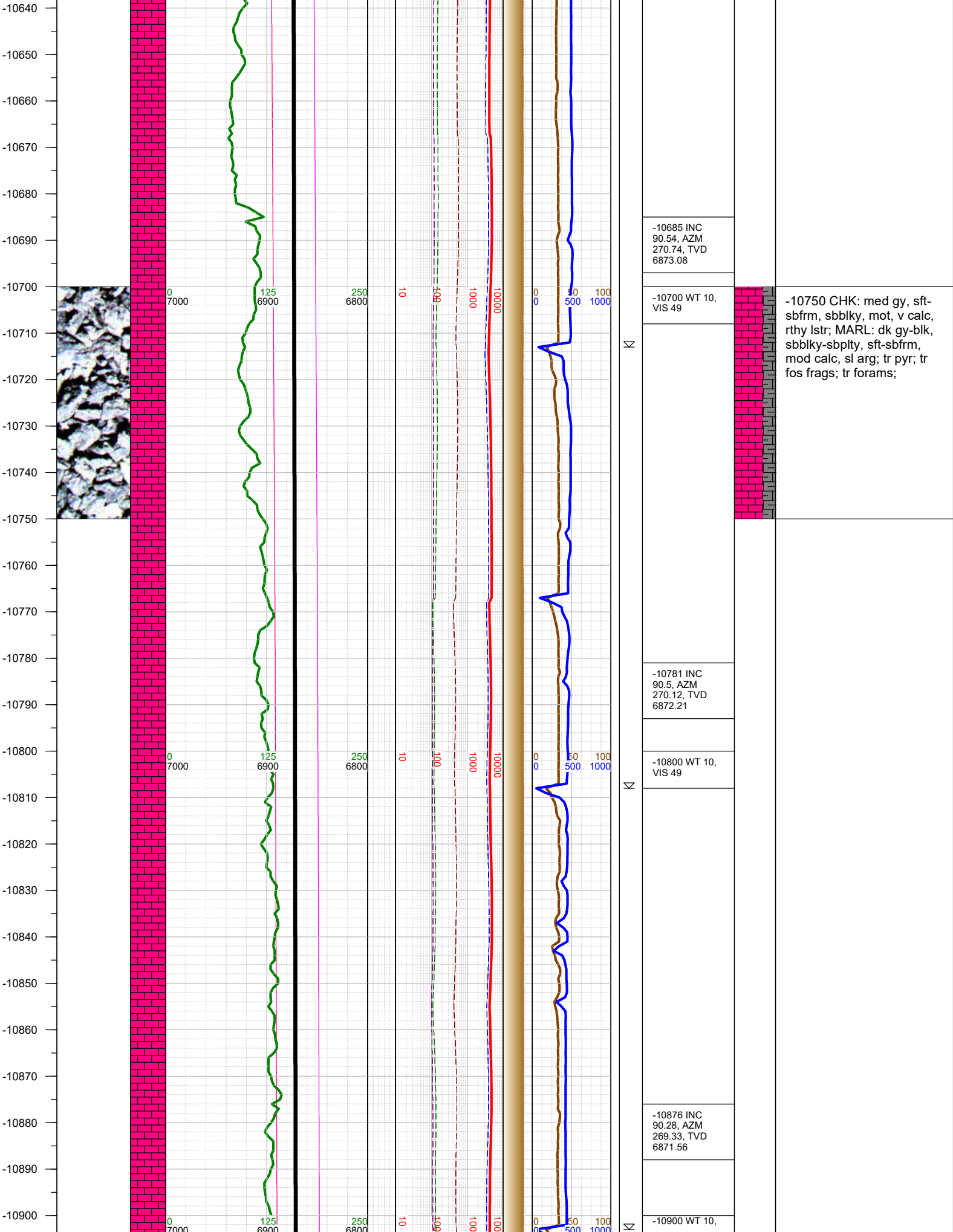




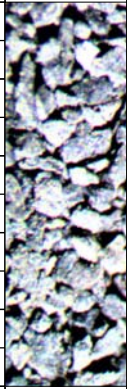




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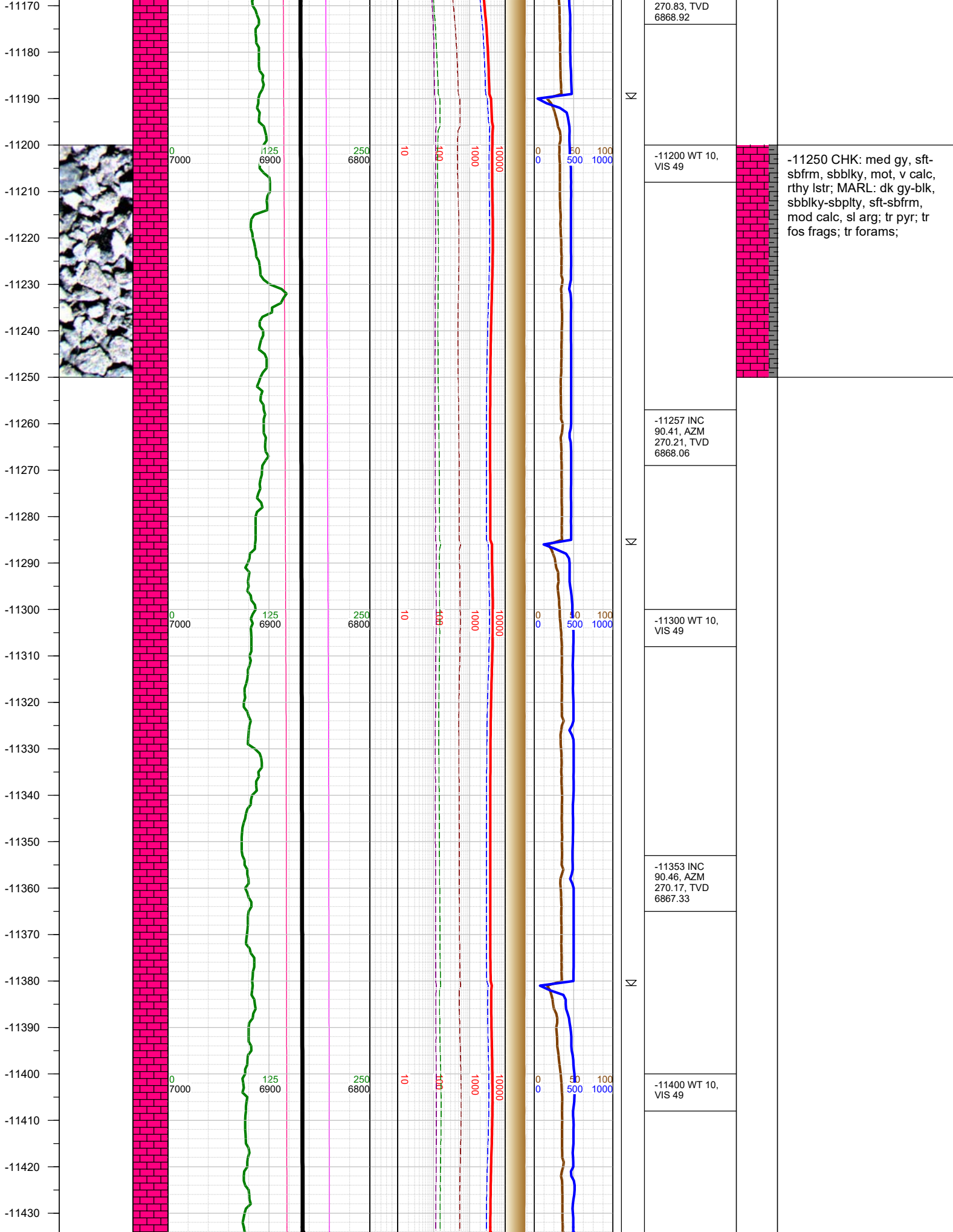
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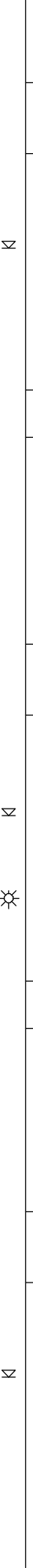
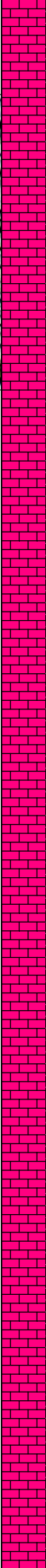
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VIS 49		
-10971 INC 90.59, AZM 270.74, TVD 6870.84		-11000 CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbply, sft-sbfrm, mod calc, sl arg; tr pyr; tr fos frags; mod forams;
-11000 WT 10, VIS 49		
-11066 INC 90.54, AZM 270.08, TVD 6869.9		
-11100 WT 10, VIS 49		
-11162 INC 90.63, AZM		



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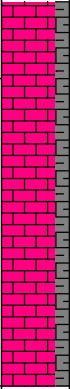
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269.64, TVD
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-11500 WT 10,
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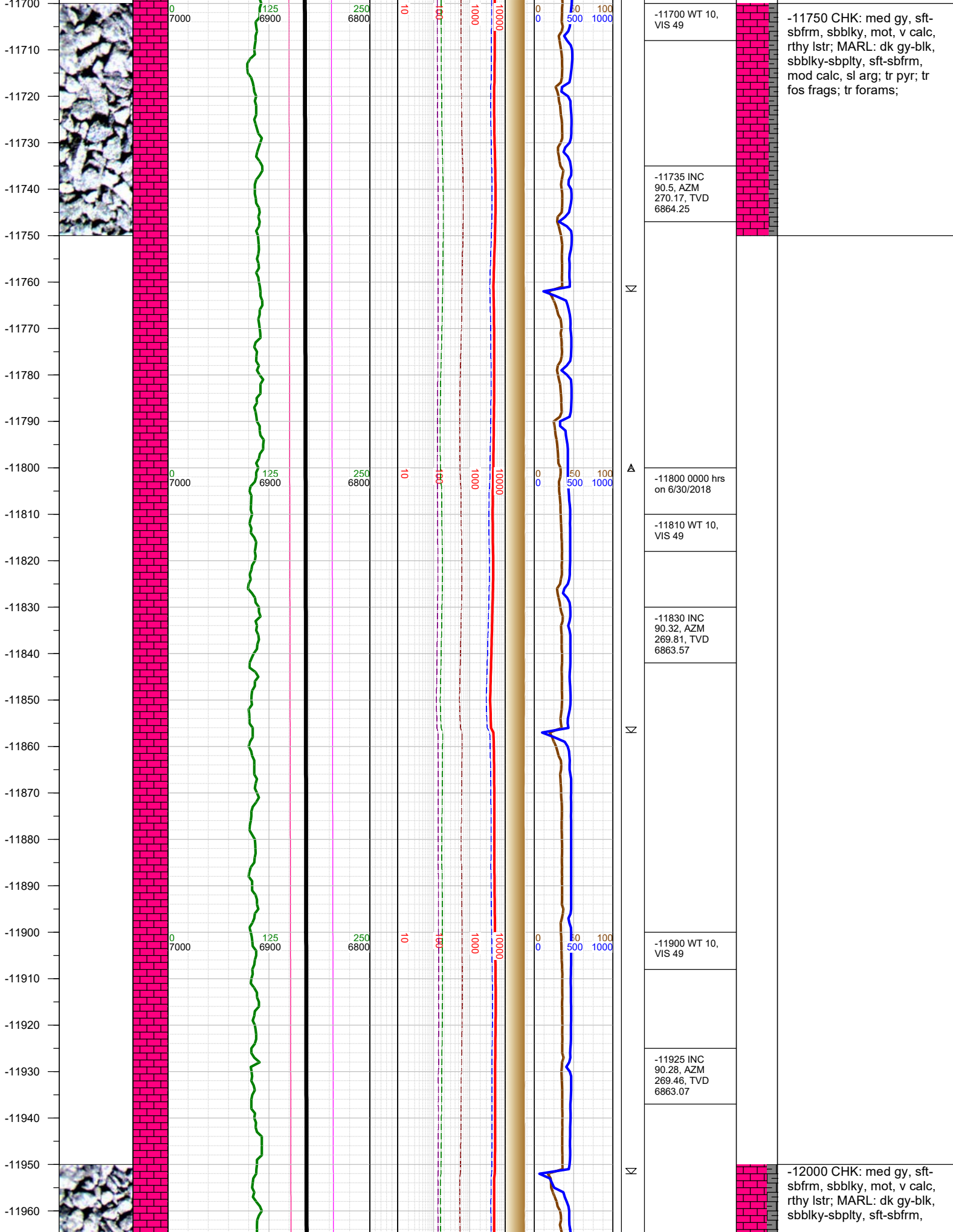
-11543 INC
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270.74, TVD
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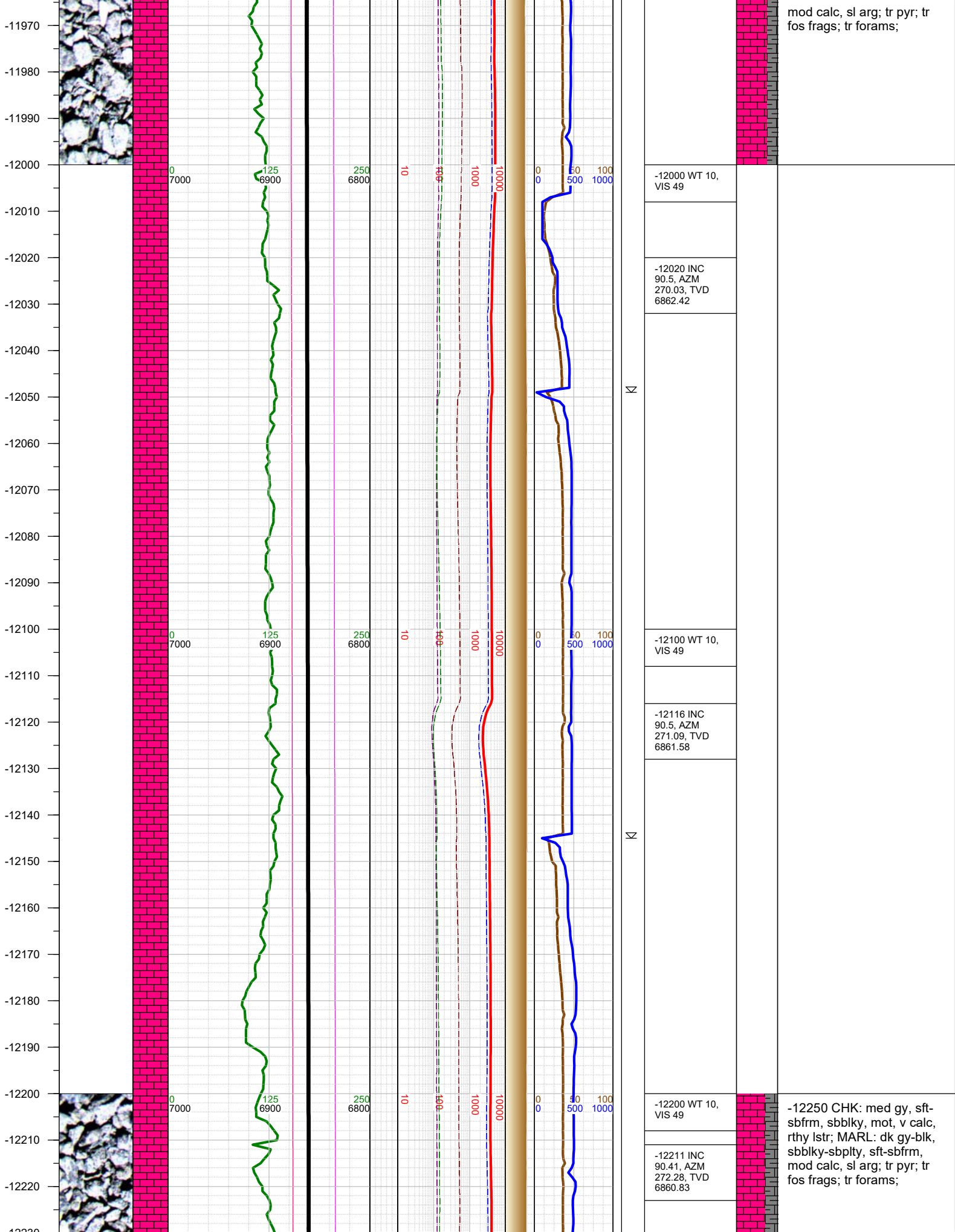
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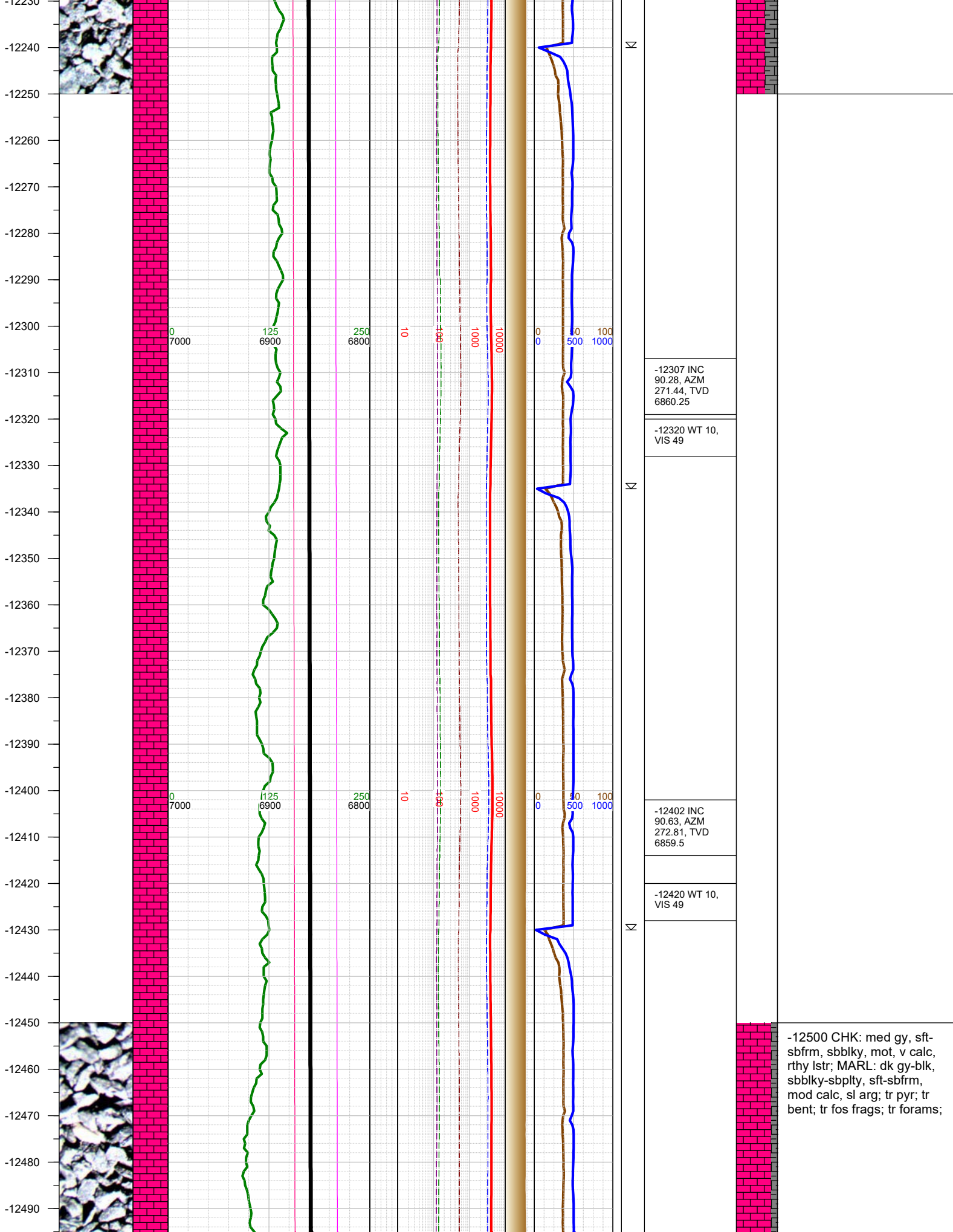
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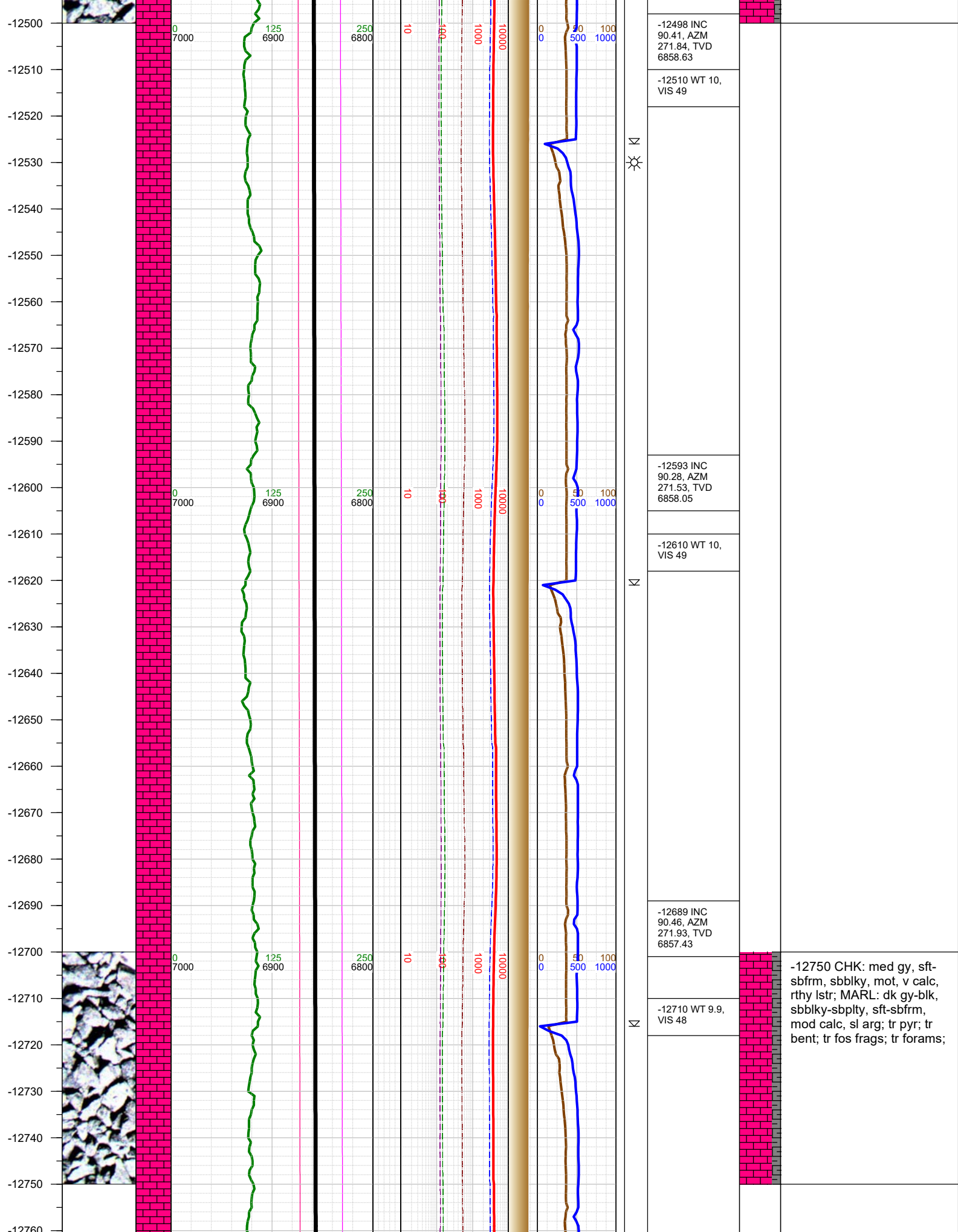


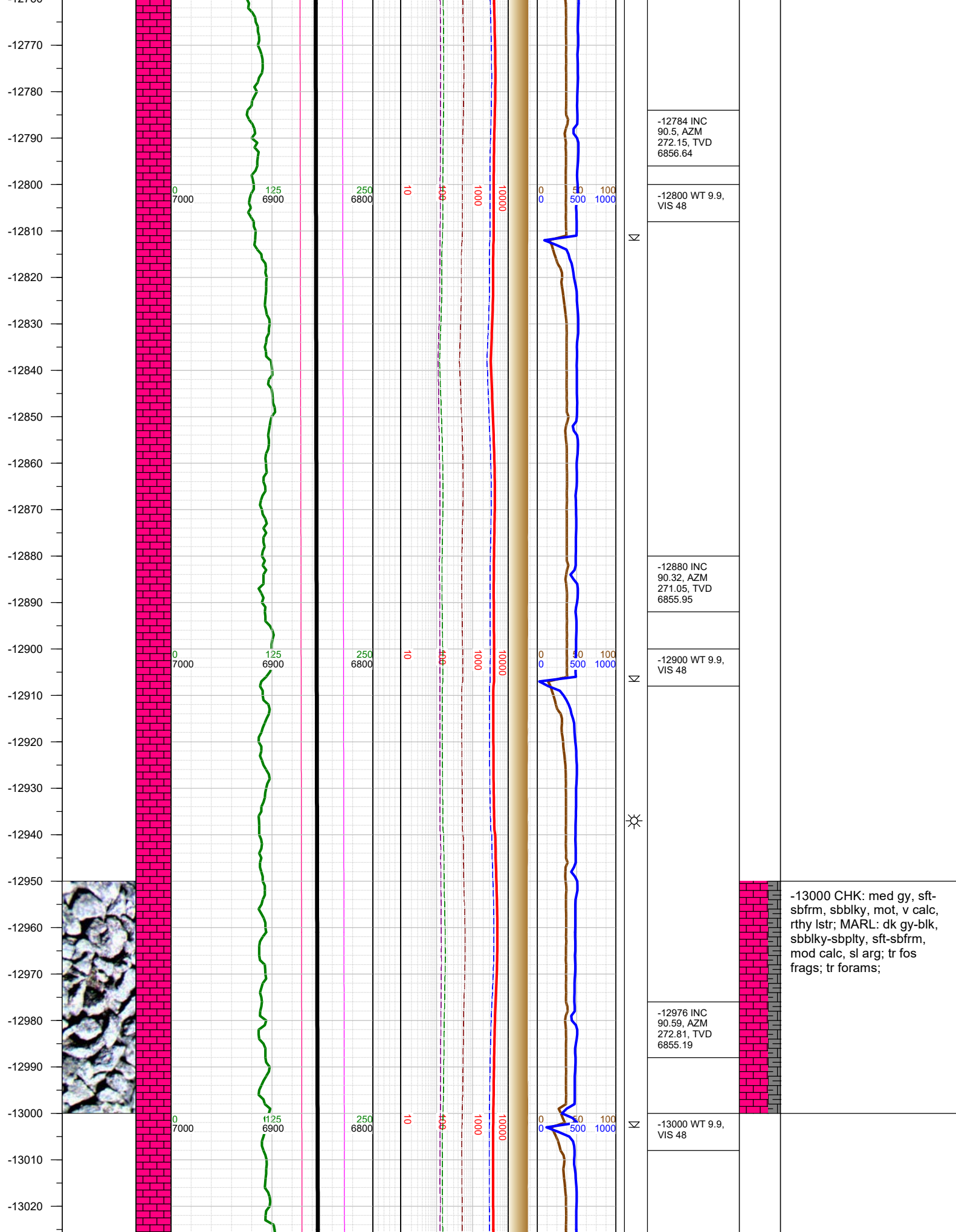
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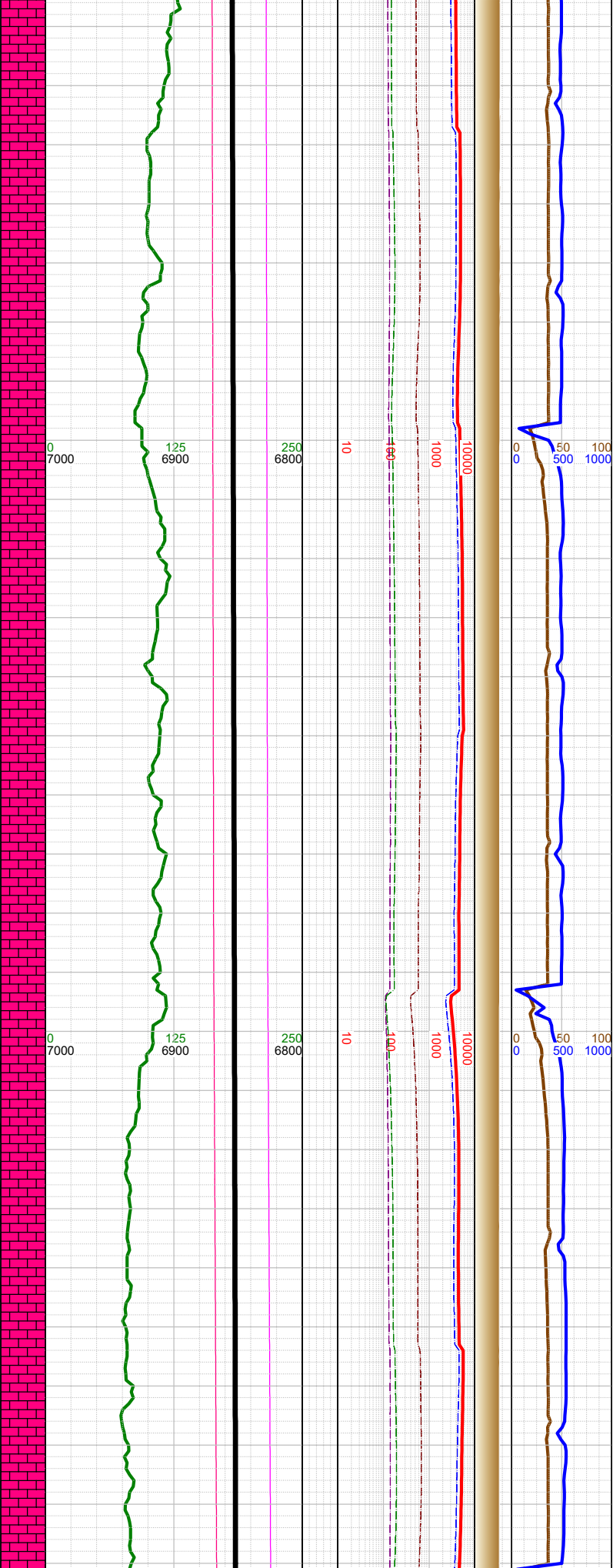




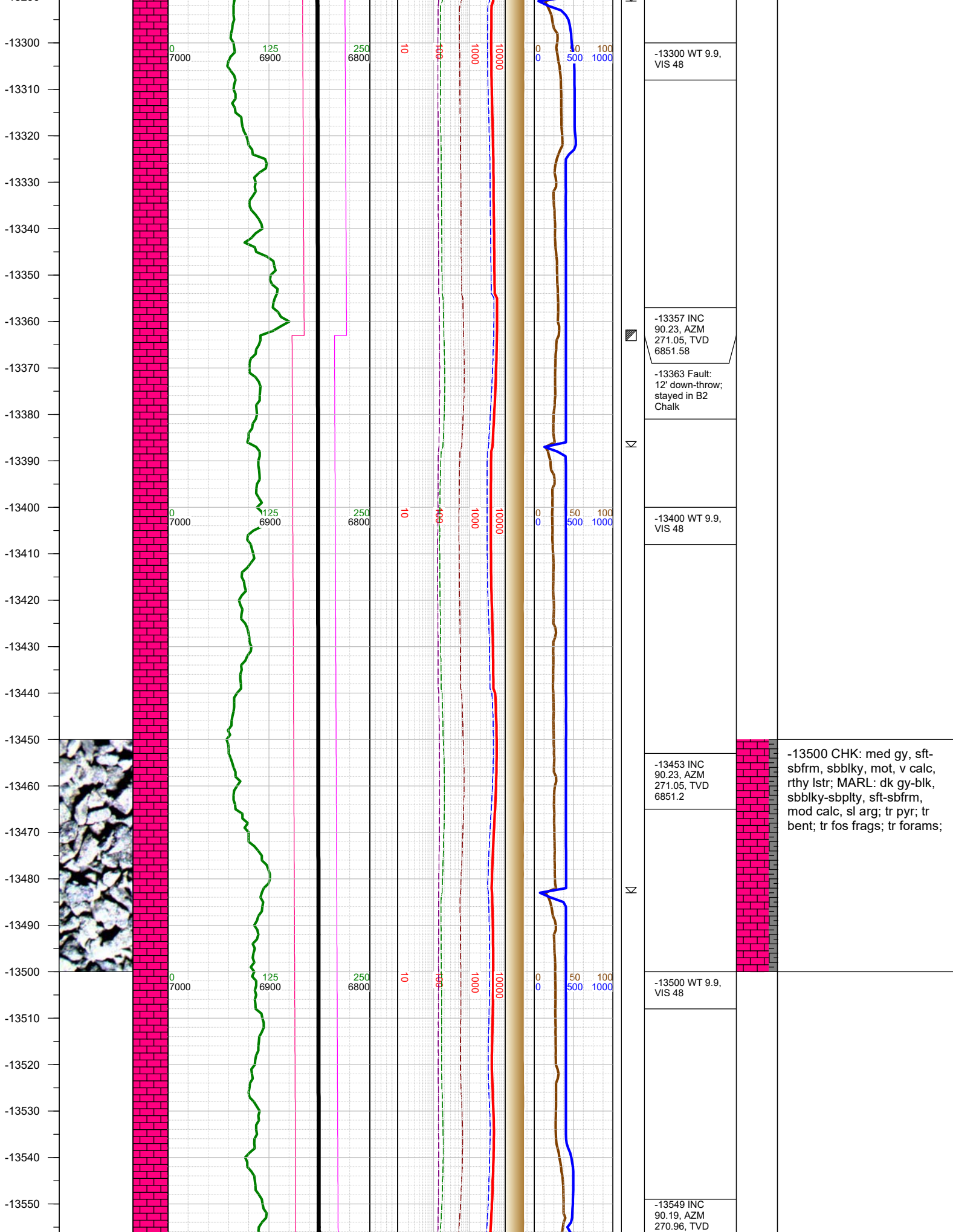


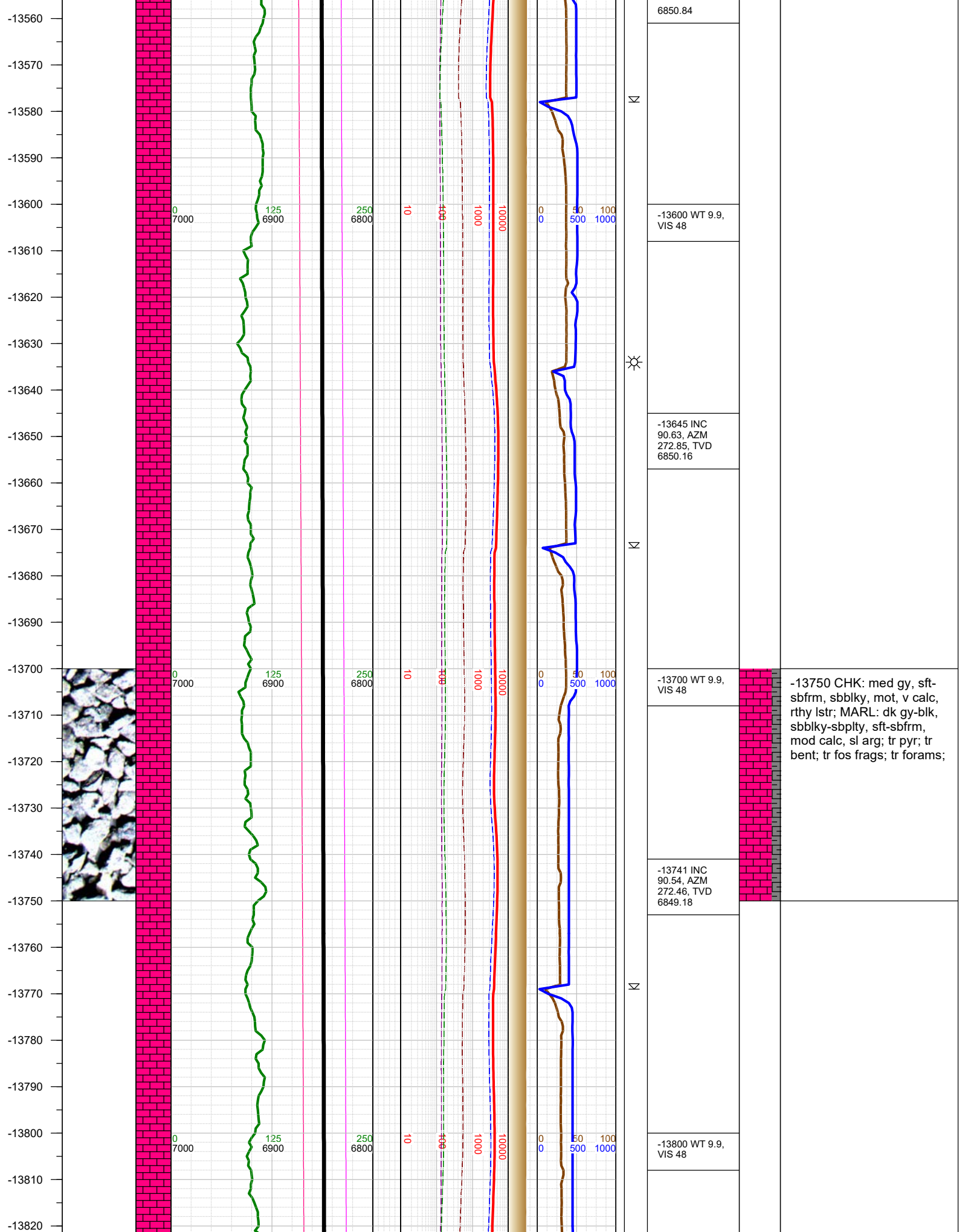


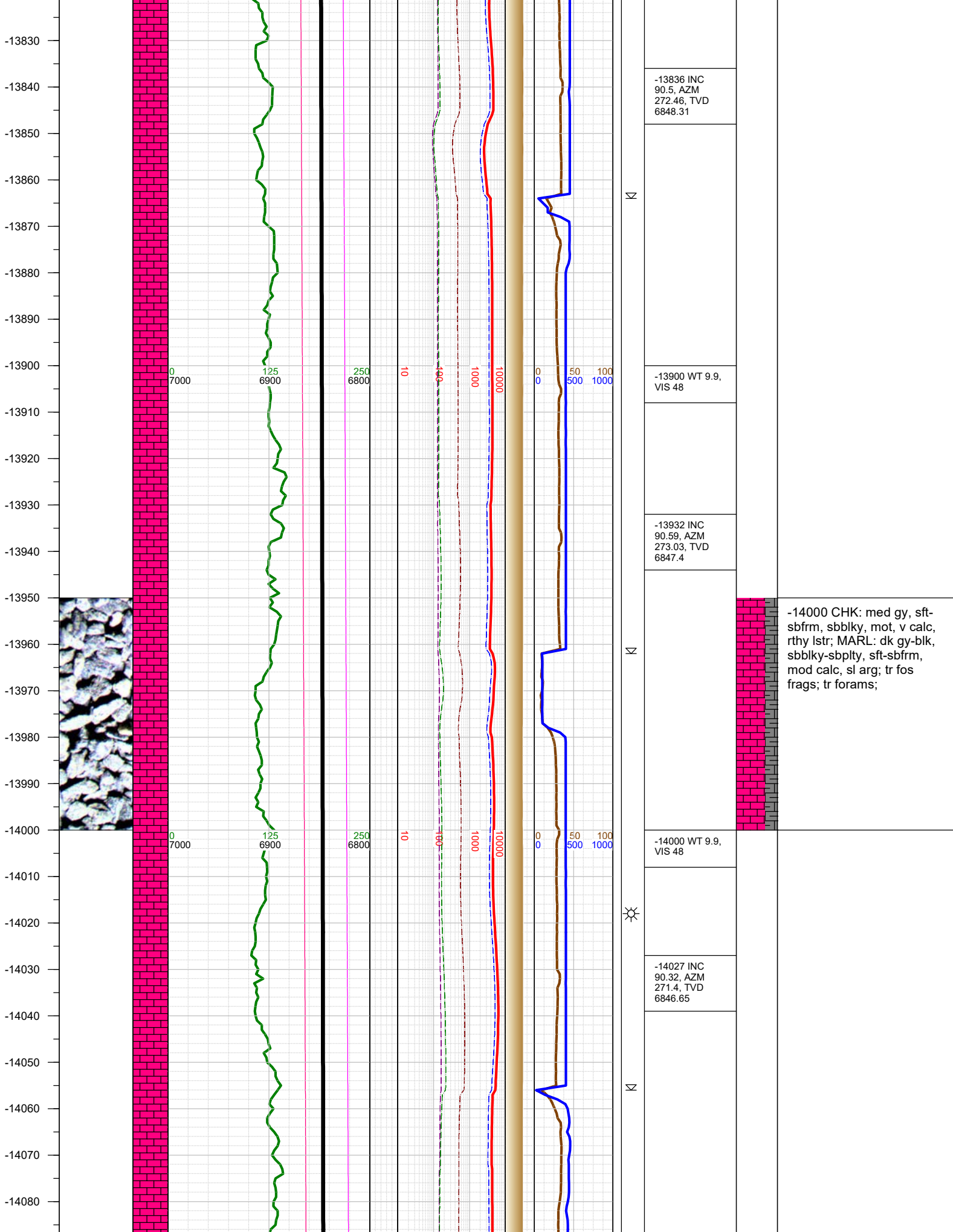
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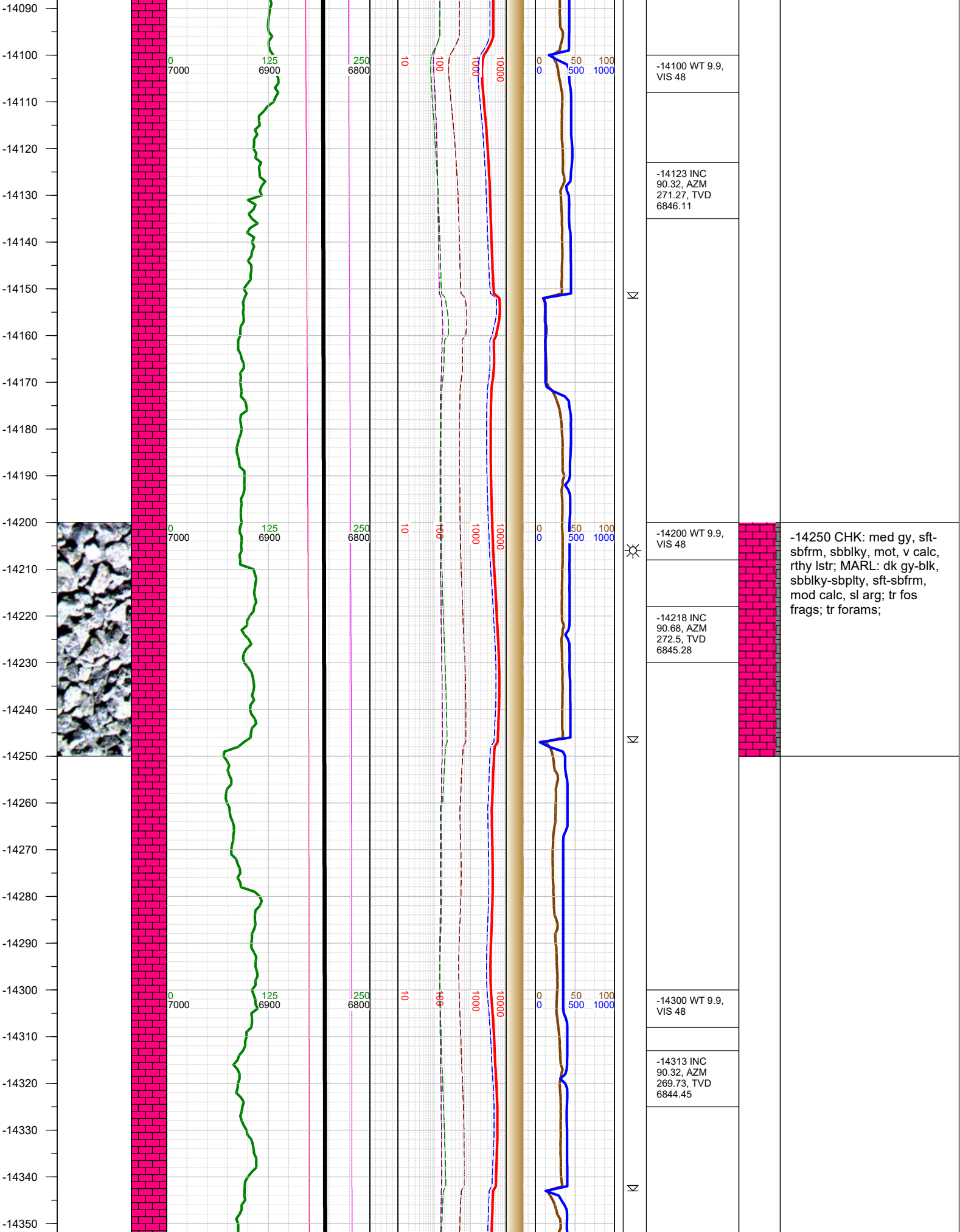


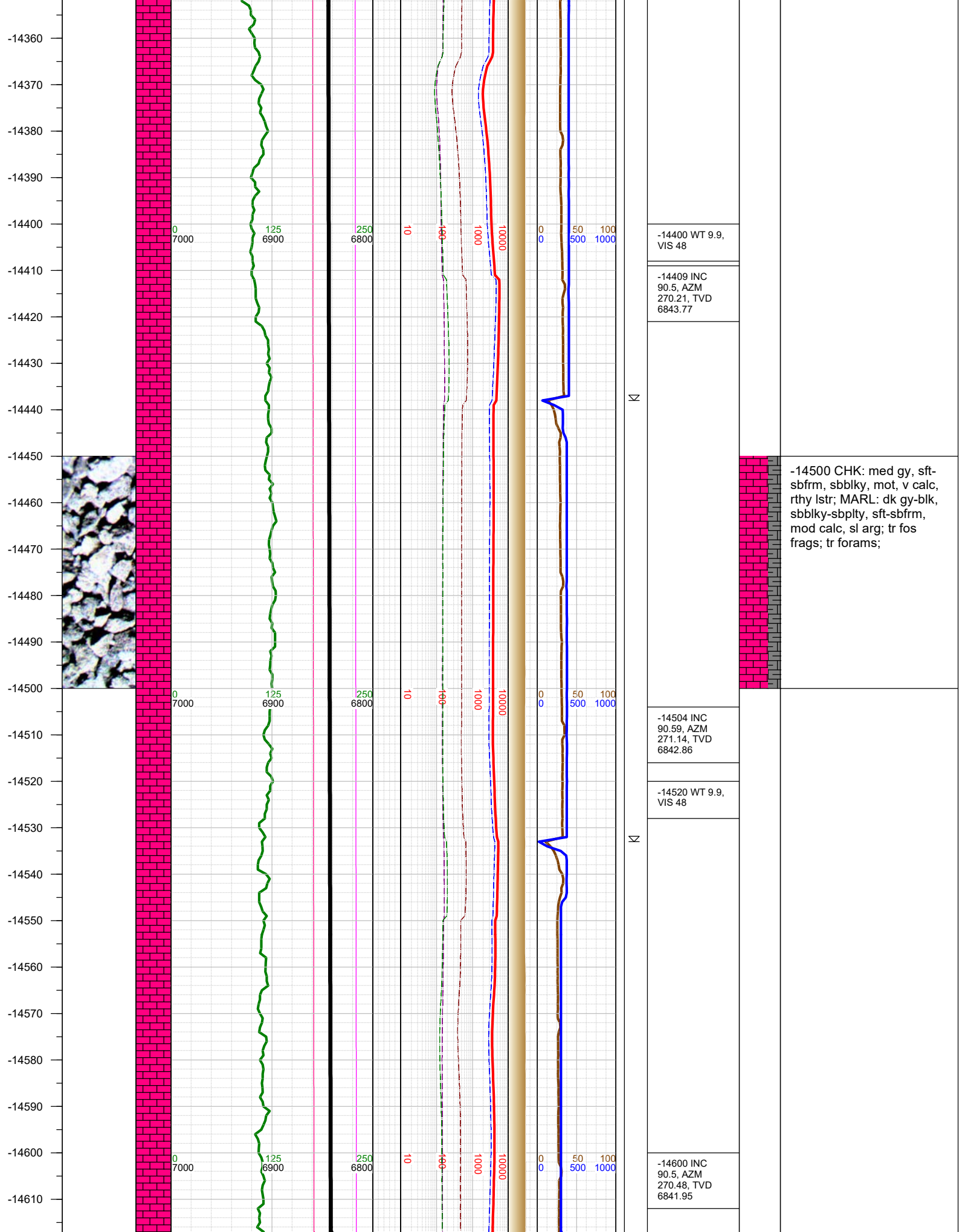
N	-13071 INC 90.63, AZM 273.07, TVD 6854.18	
	-13100 WT 9.9, VIS 48	
N	-13167 INC 90.5, AZM 272.9, TVD 6853.23	
	-13200 WT 9.9, VIS 48	-13250 CHK: med gy, sft- sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr fos frags; tr forams;
☀	-13262 INC 90.63, AZM 272.77, TVD 6852.29	



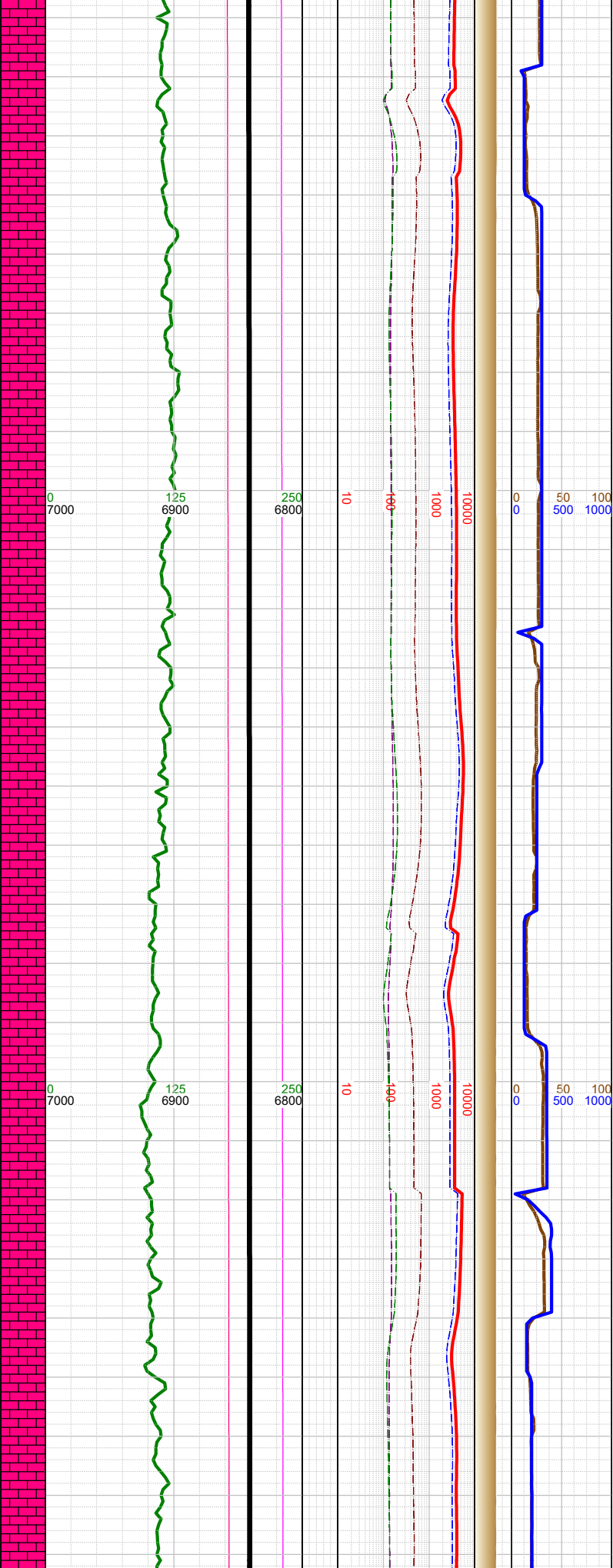




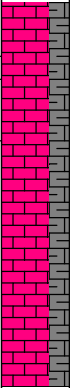




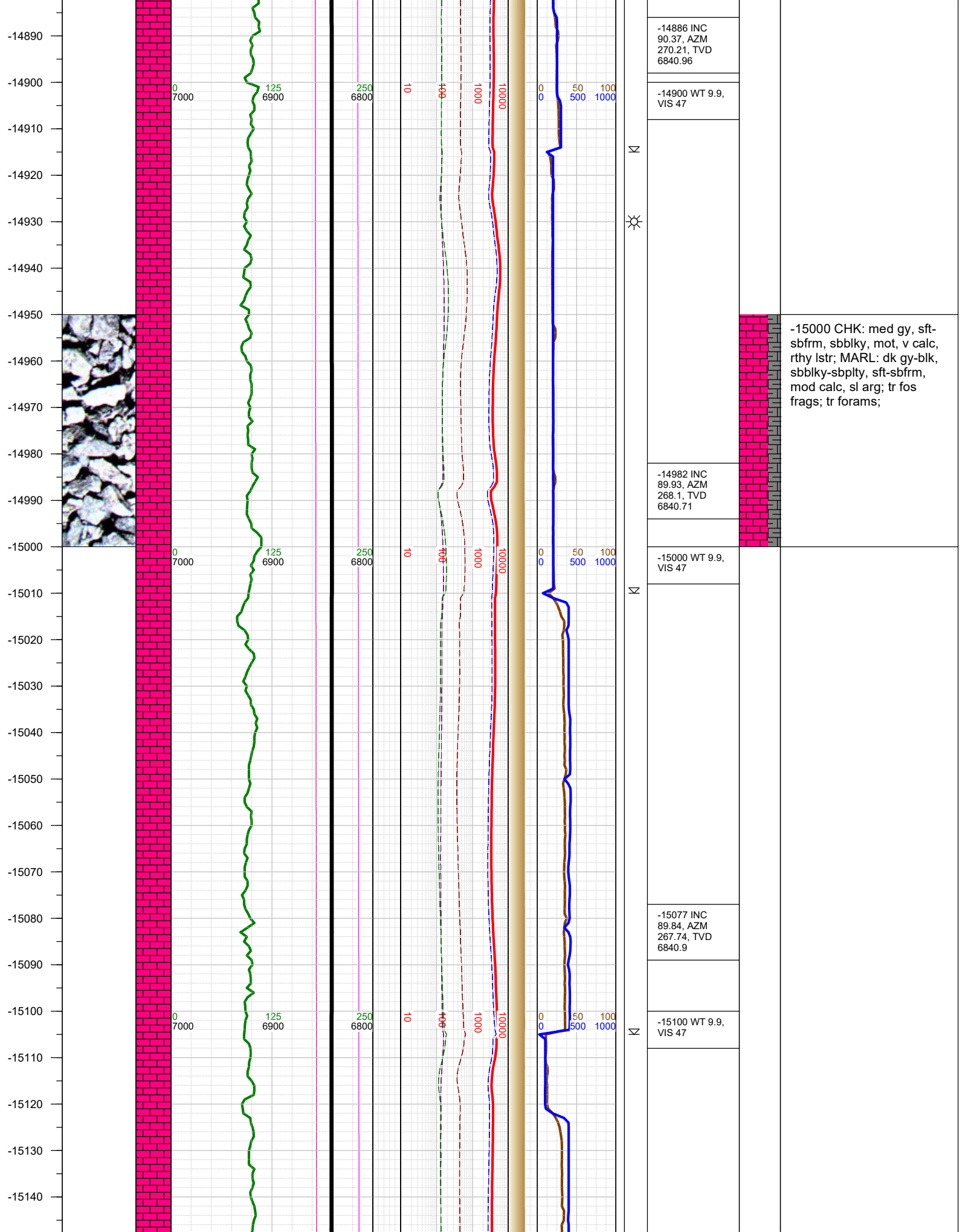
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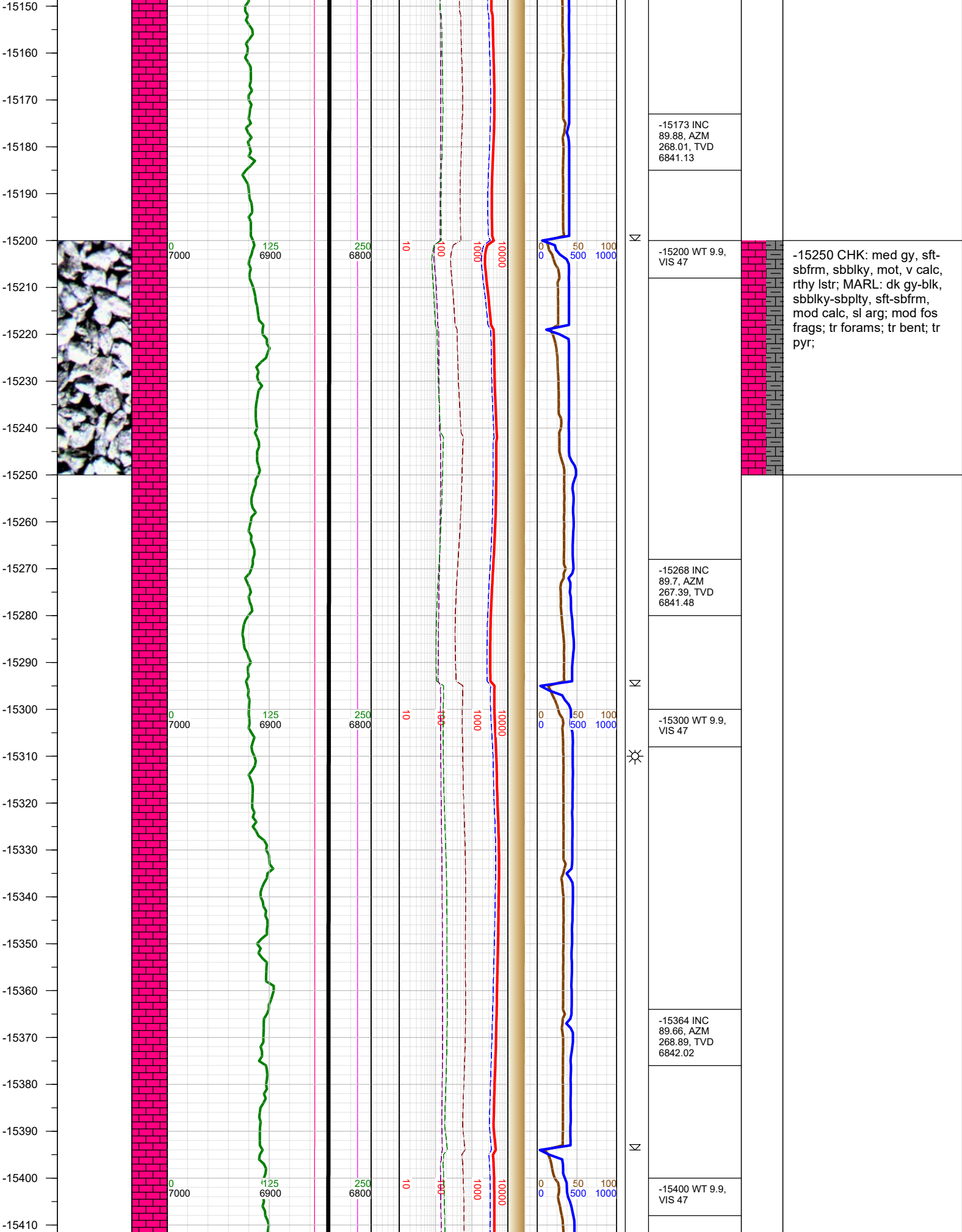


N	-14620 WT 9.9, VIS 48
N	-14695 INC 90.15, AZM 270.3, TVD 6841.41
N	-14710 WT 9.9, VIS 48
N	-14790 INC 90.01, AZM 270.08, TVD 6841.28
N	-14810 WT 9.9, VIS 47

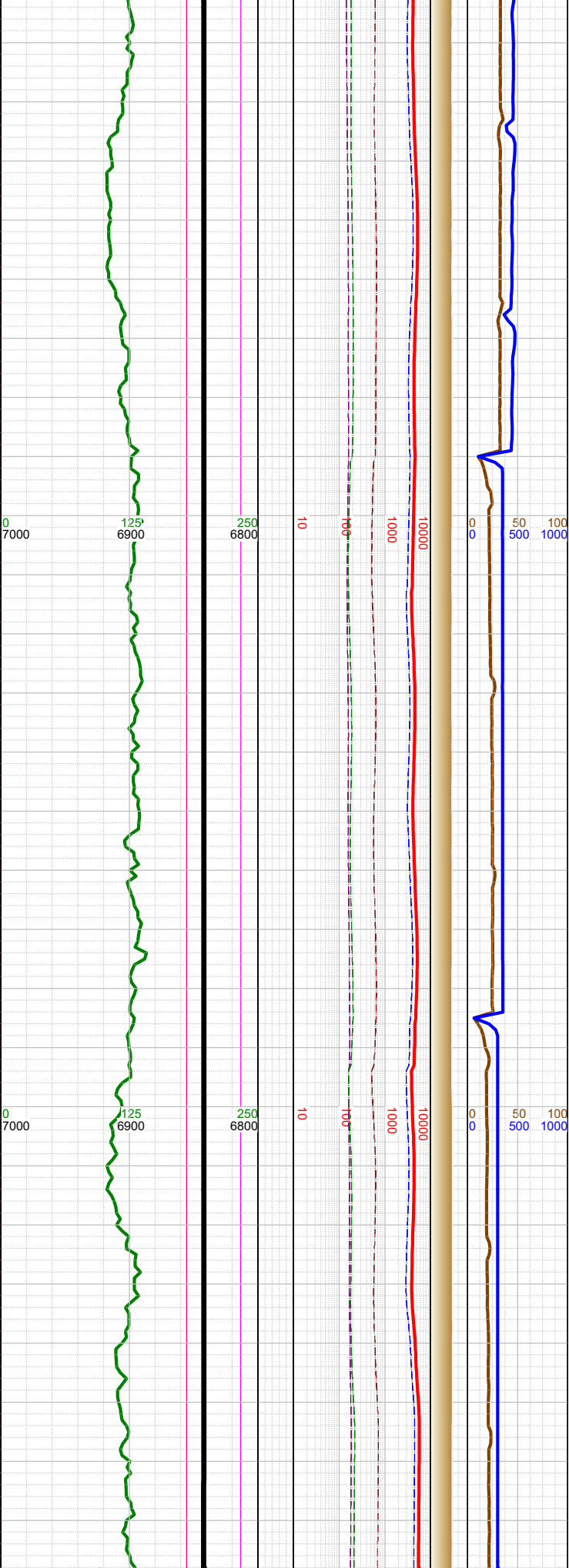
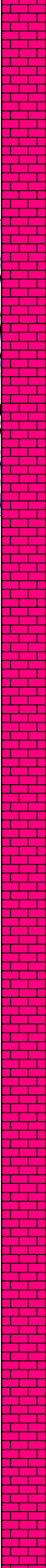
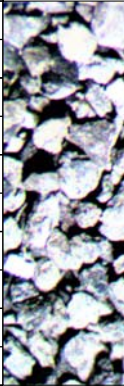


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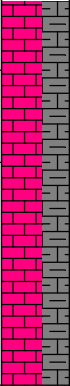


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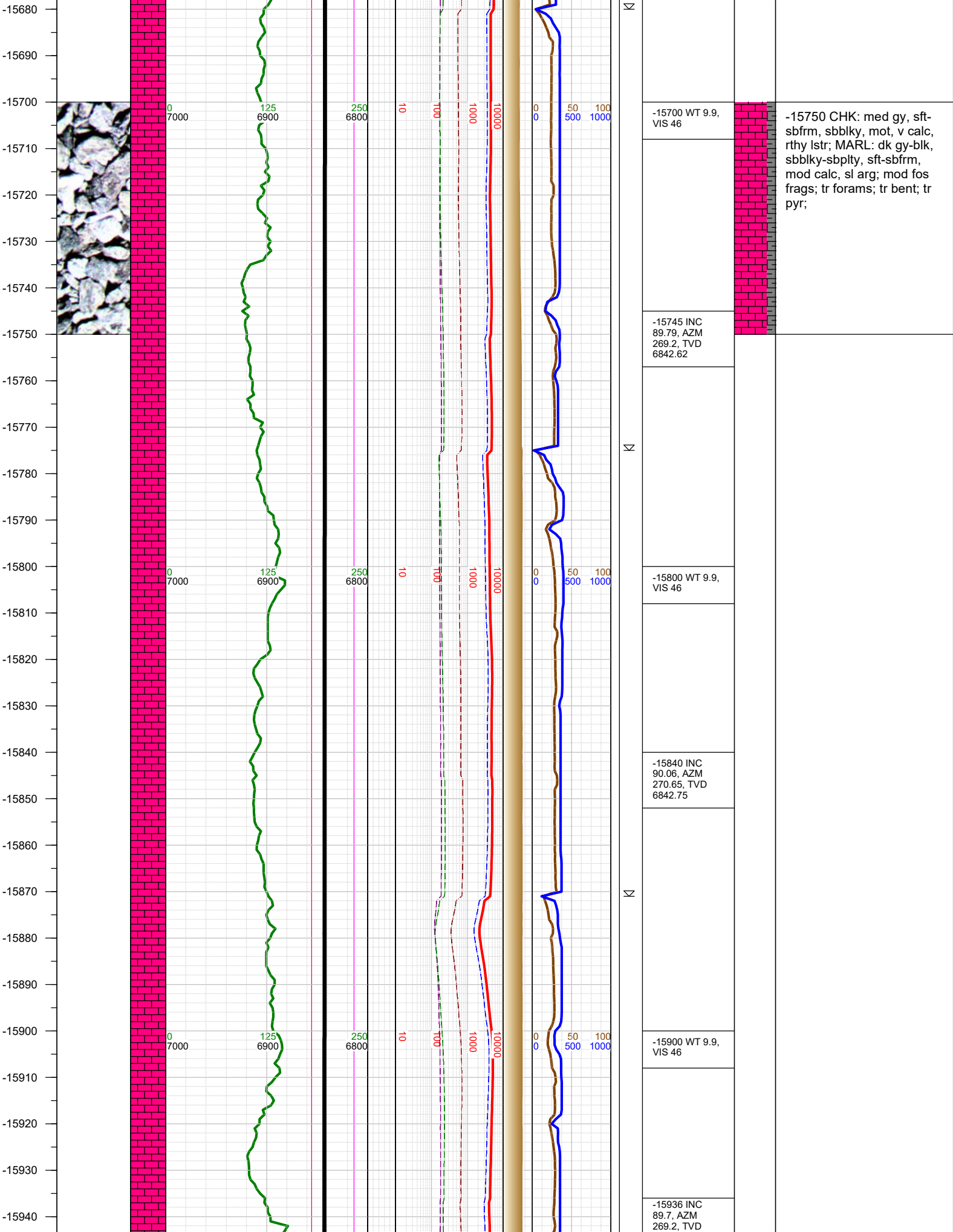


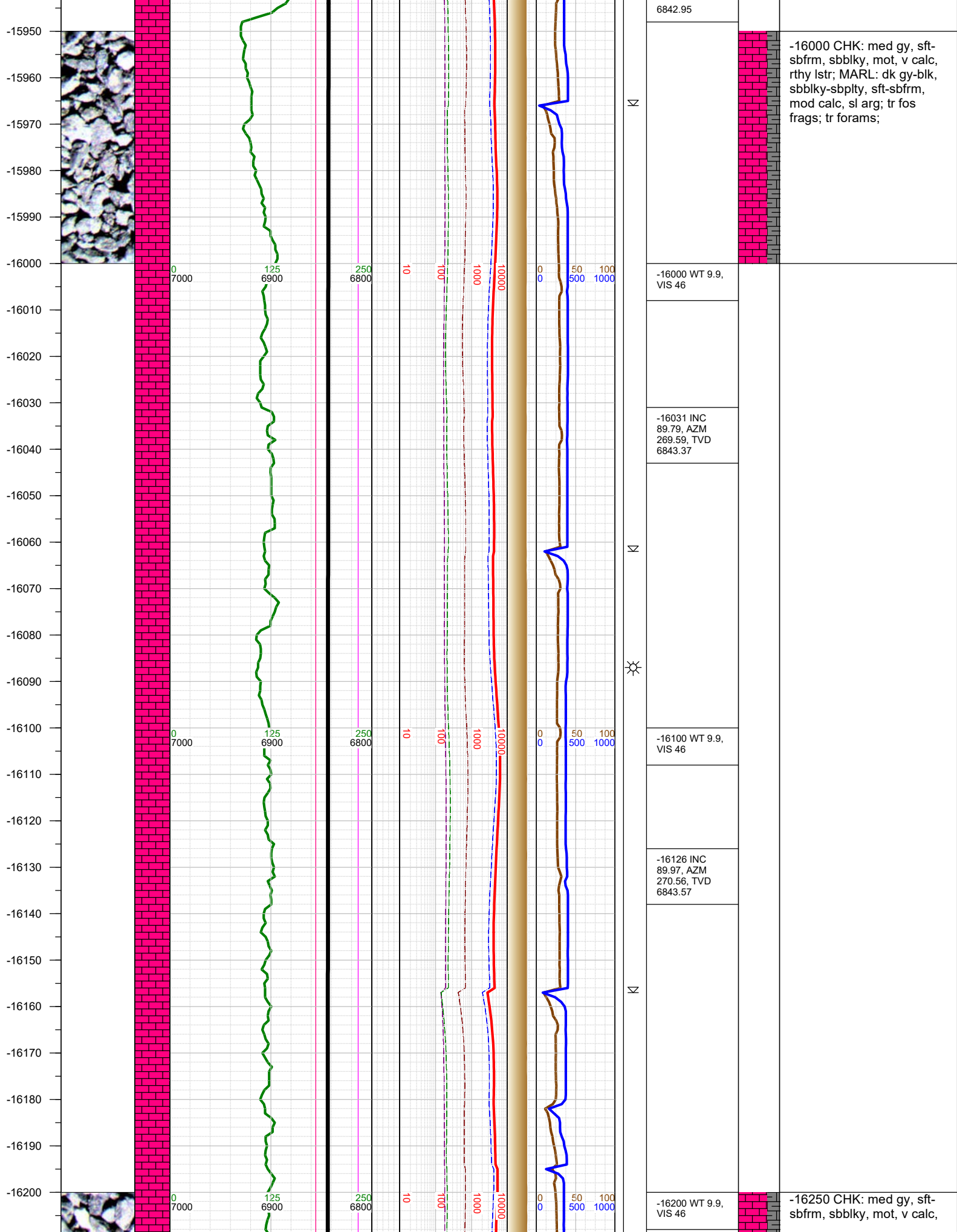
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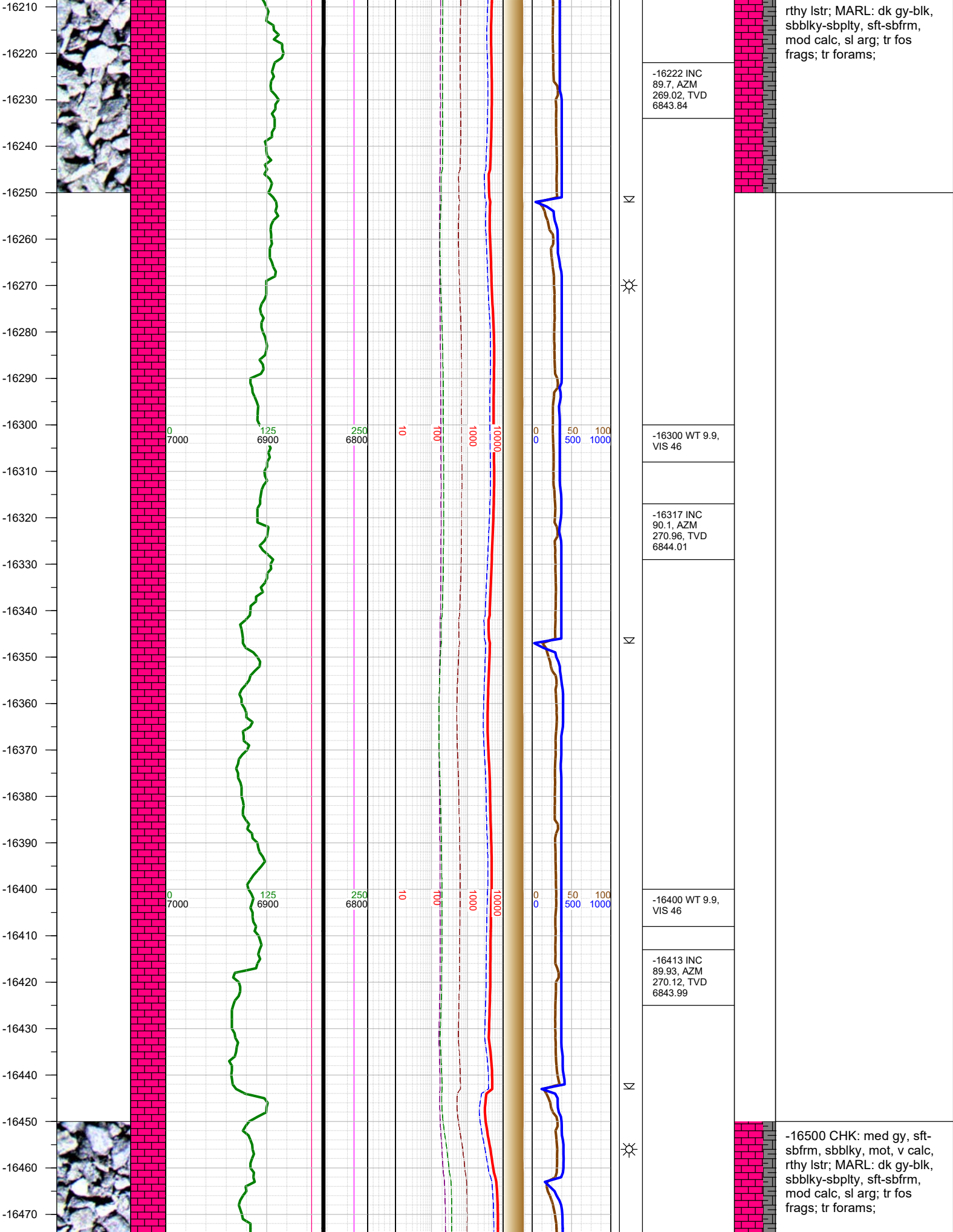
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		-15500 WT 9.9, VIS 47		
		-15555 INC 90.1, AZM 270.96, TVD 6842.12		
		-15600 WT 9.9, VIS 47		
		-15650 INC 89.75, AZM 269.33, TVD 6842.24		

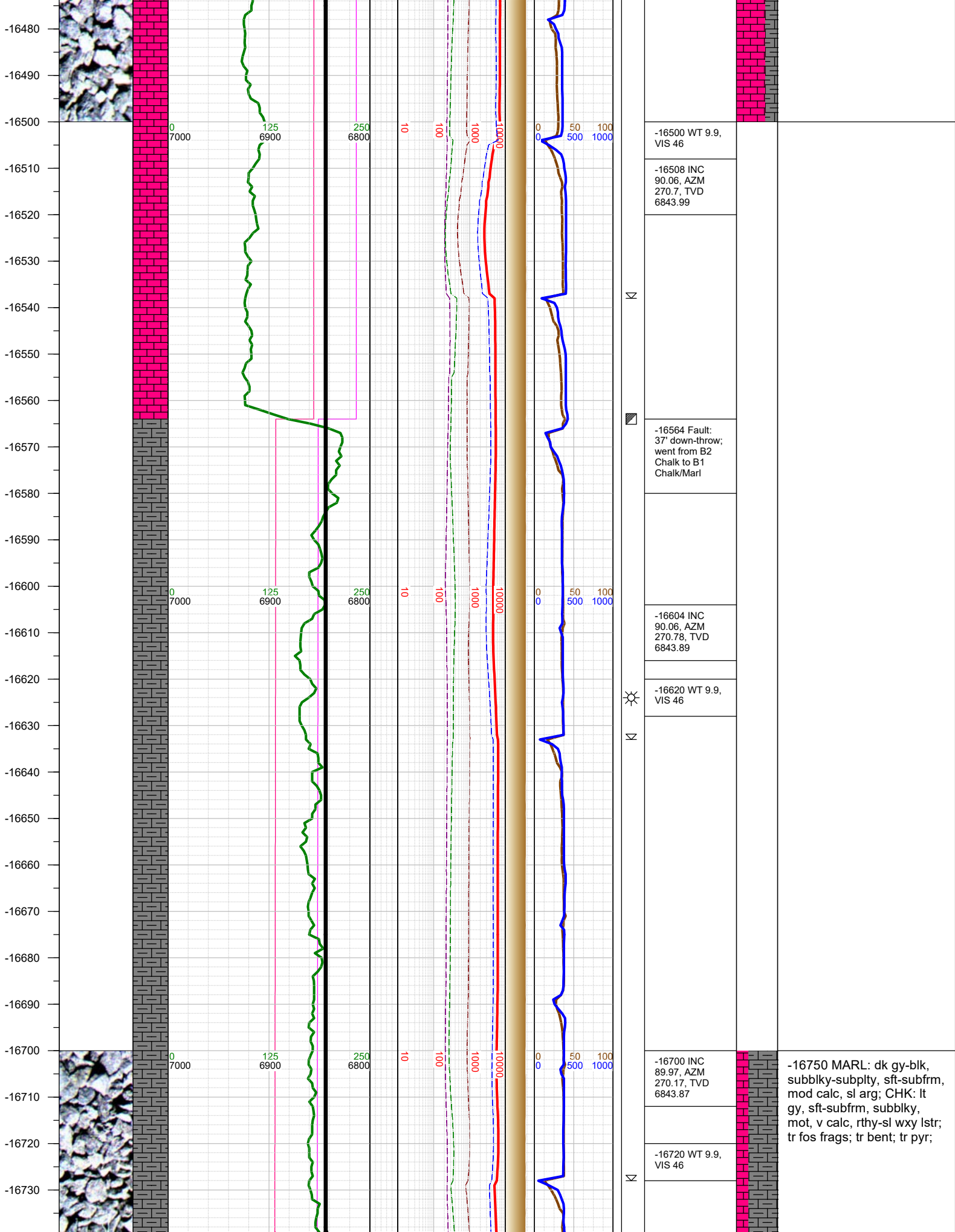


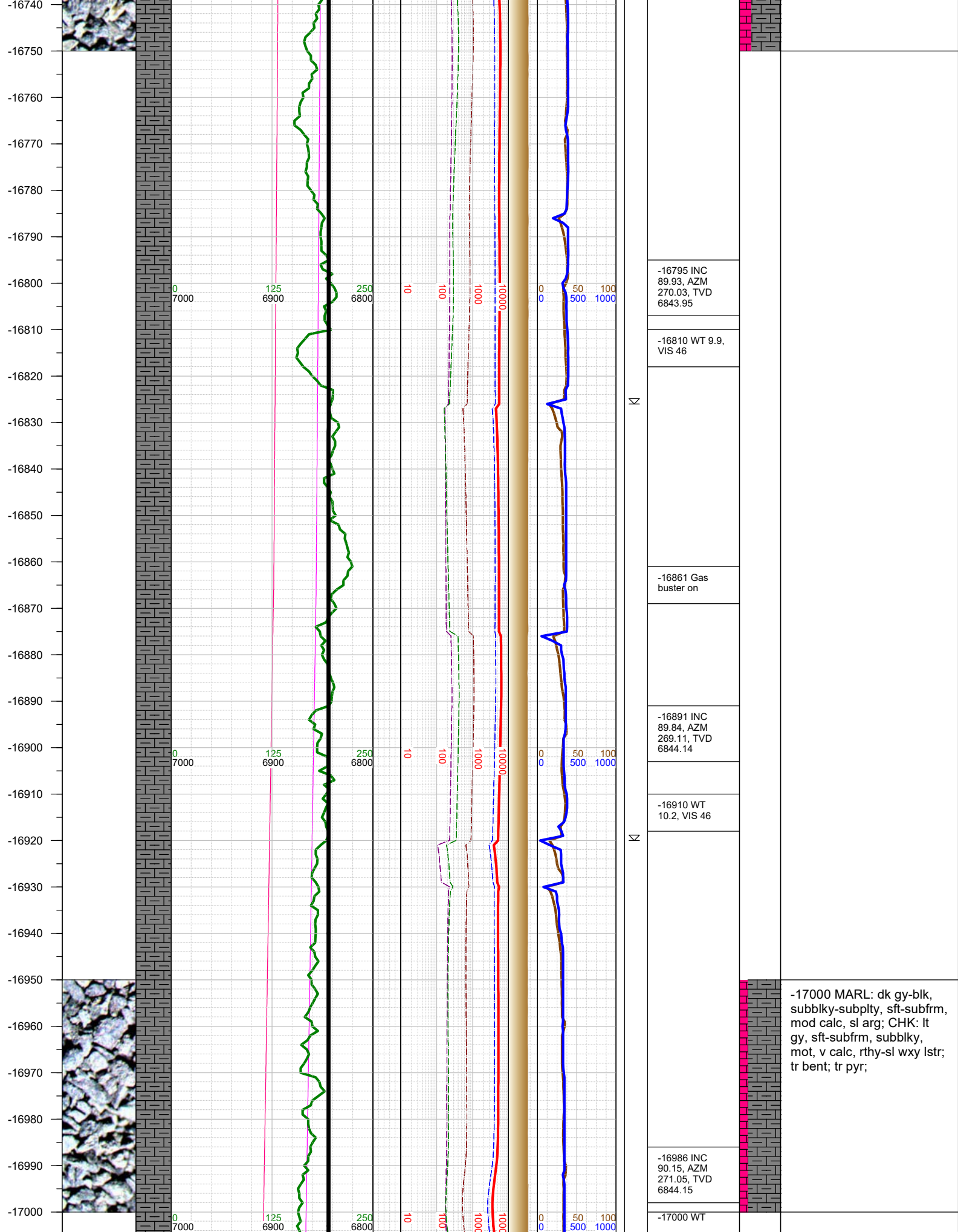
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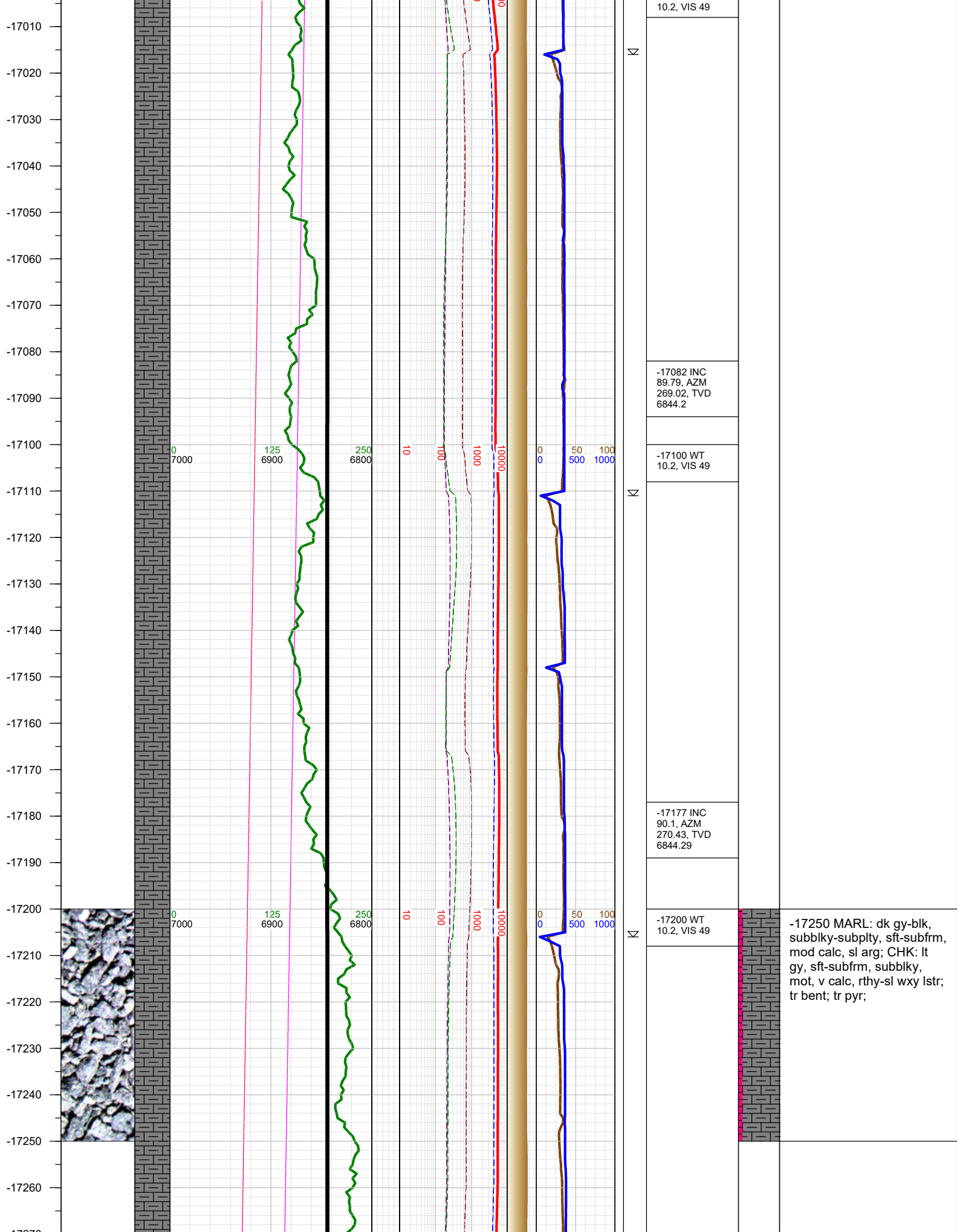










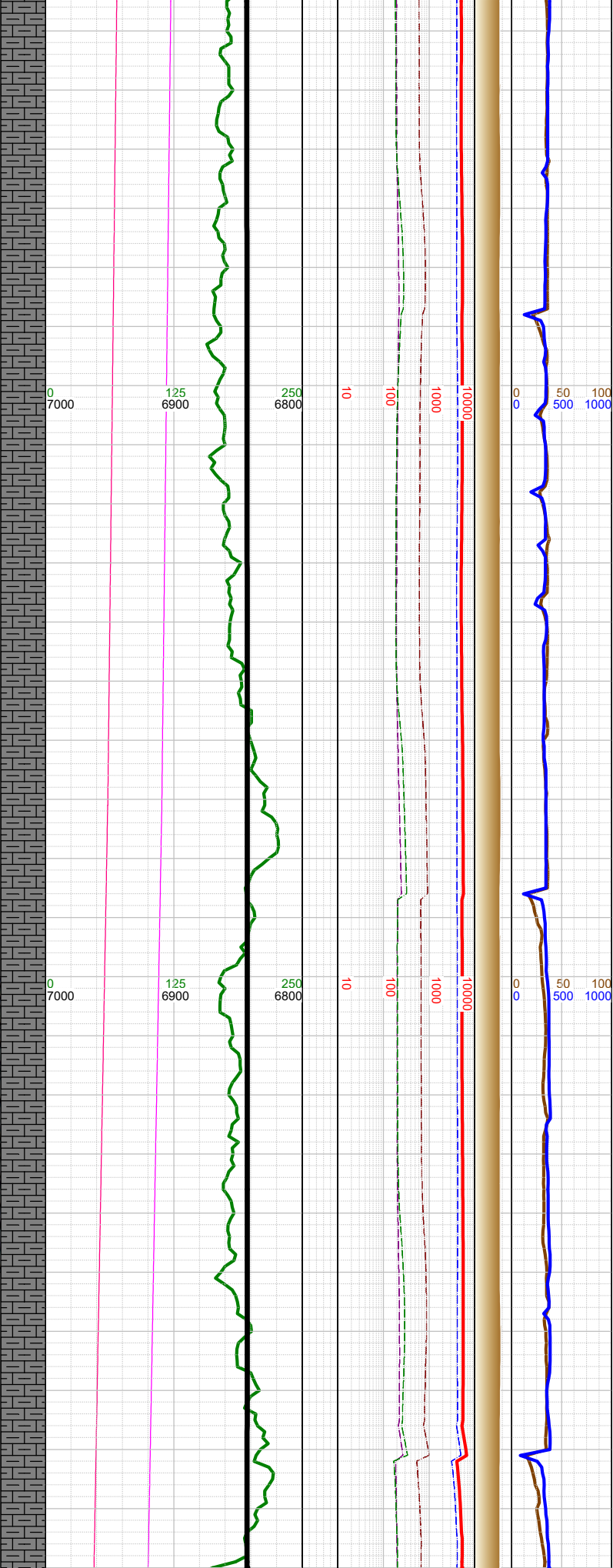
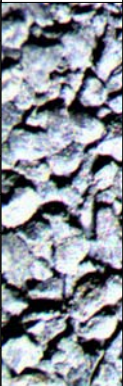


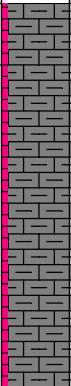
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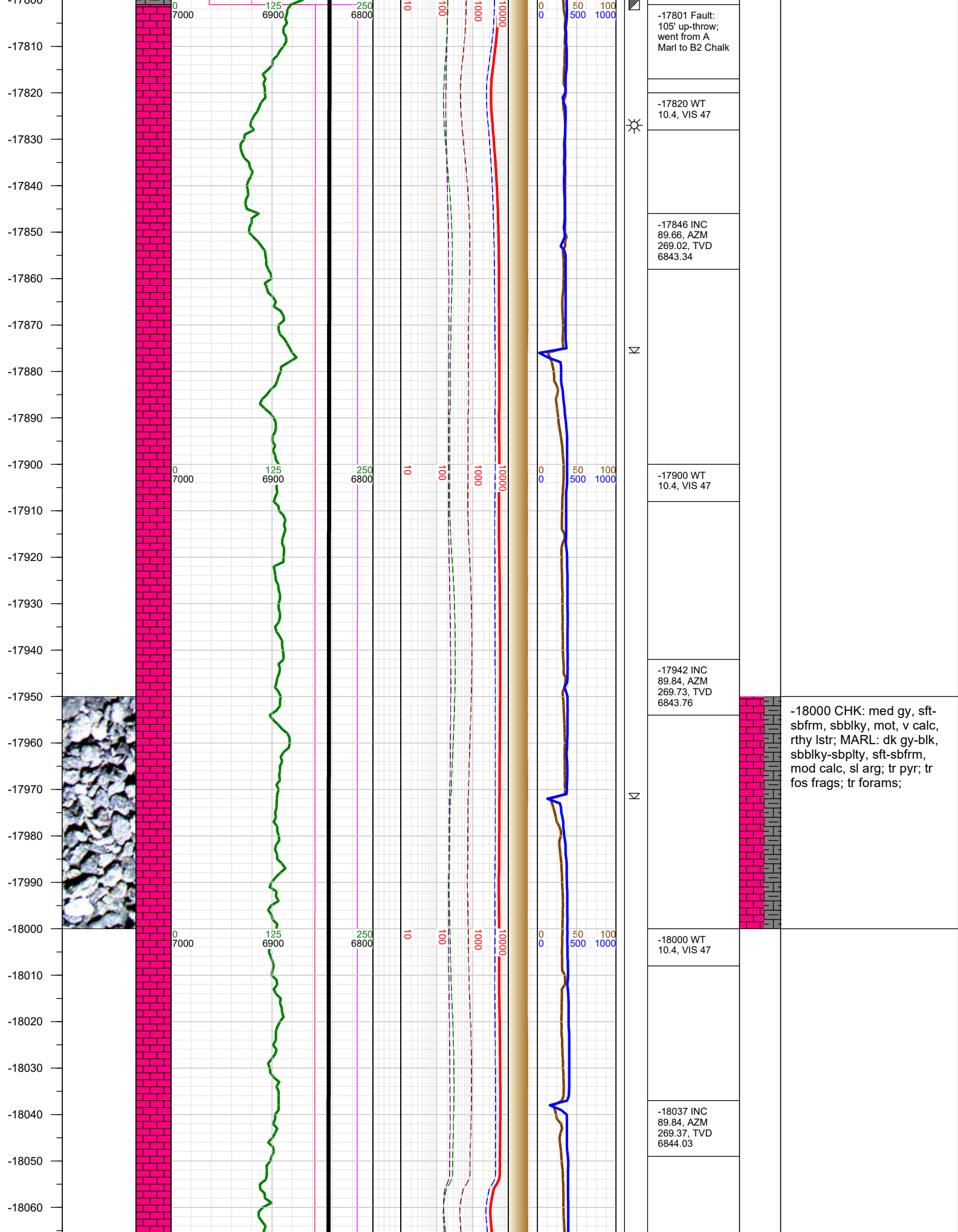


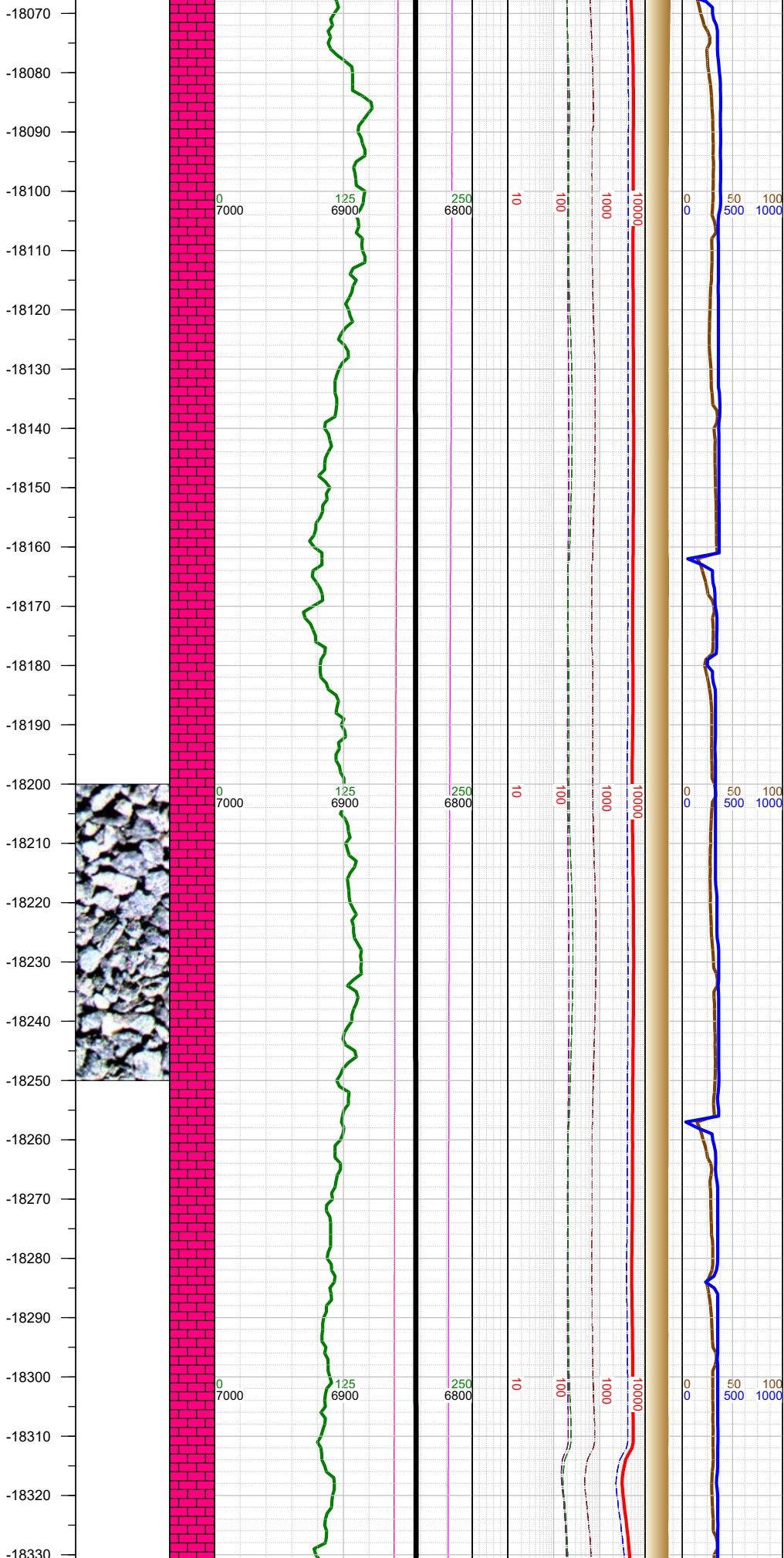
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	-17300 WT 10.2, VIS 49	
Σ	-17369 INC 90.19, AZM 271.14, TVD 6843.67	
	-17400 WT 10.4, VIS 49	
Σ	-17464 INC 90.01, AZM 270.56, TVD 6843.5	-17500 MARL: dk gy-blk, subbly-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subbly, mot, v calc, rthy-sl wxy lstr; tr bent; tr pyr;
	-17500 WT 10.4, VIS 49	

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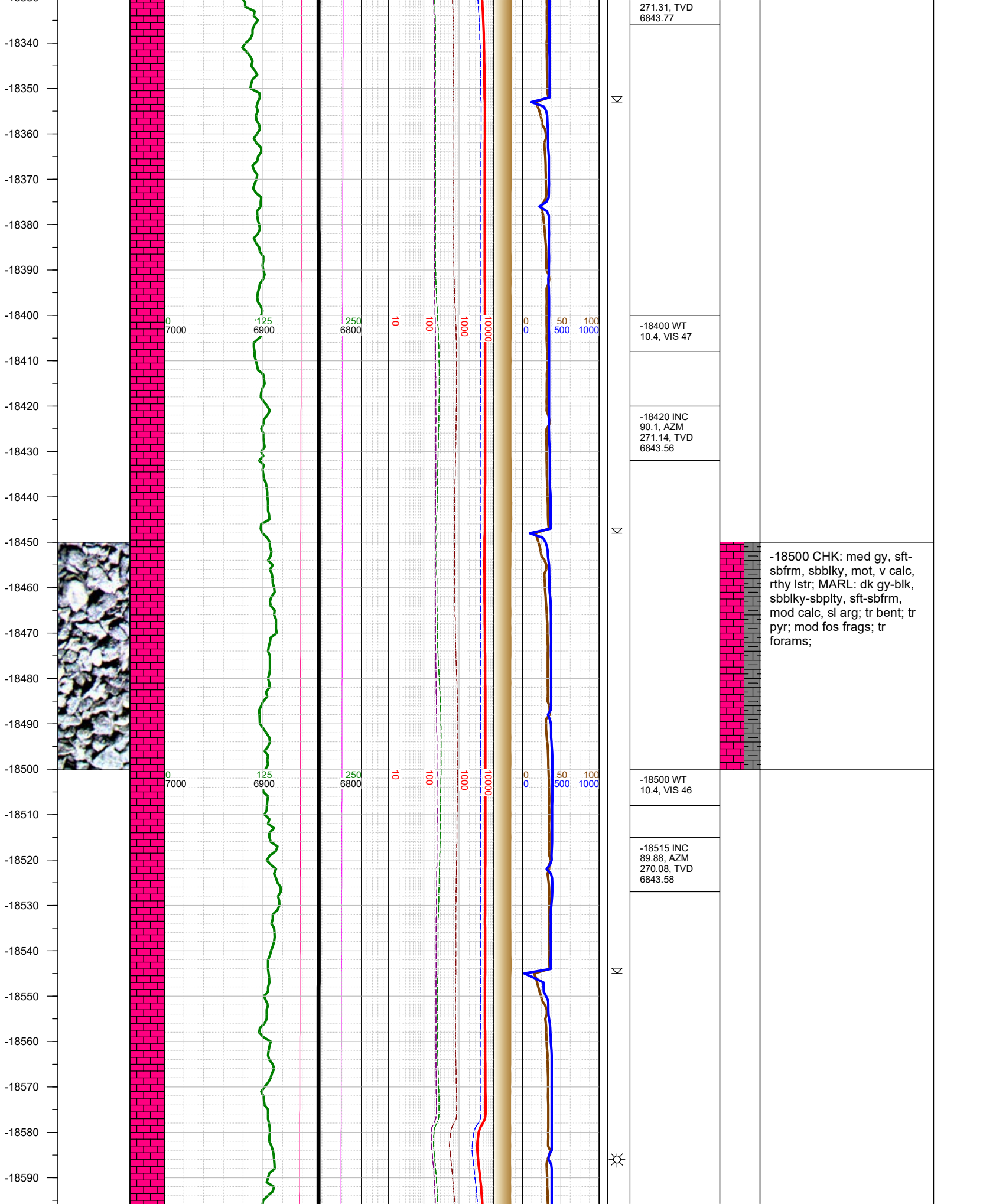


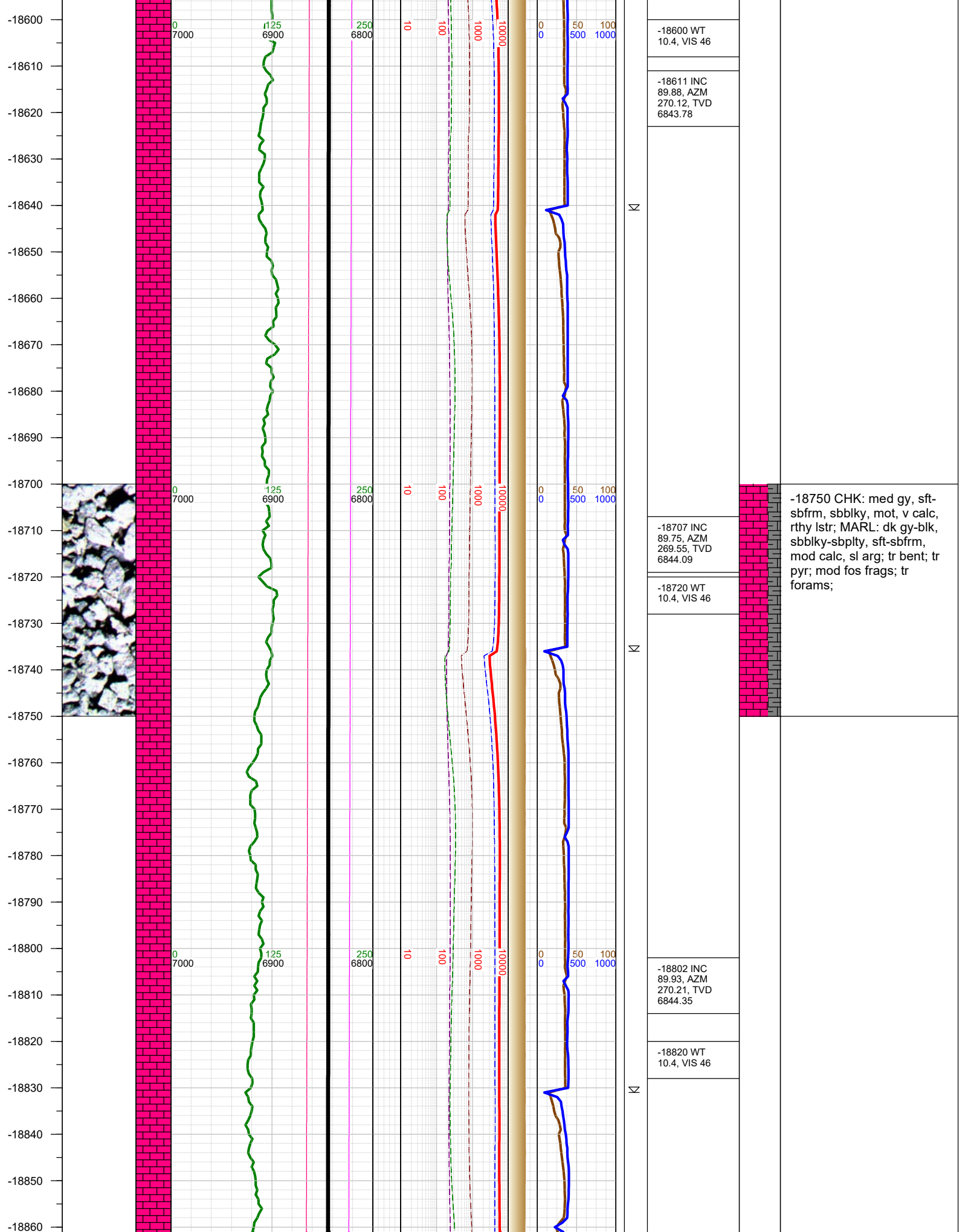
N	-17560 INC 90.23, AZM 271.36, TVD 6843.3		
A	-17600 WT 10.4, VIS 47		
	-17618 0000 hrs on 7/1/2018		
N	-17655 INC 90.15, AZM 271.05, TVD 6842.98		
	-17700 WT 10.4, VIS 47		-17750 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr bent; tr pyr;
N	-17750 INC 89.86, AZM 269.42, TVD 6842.96		

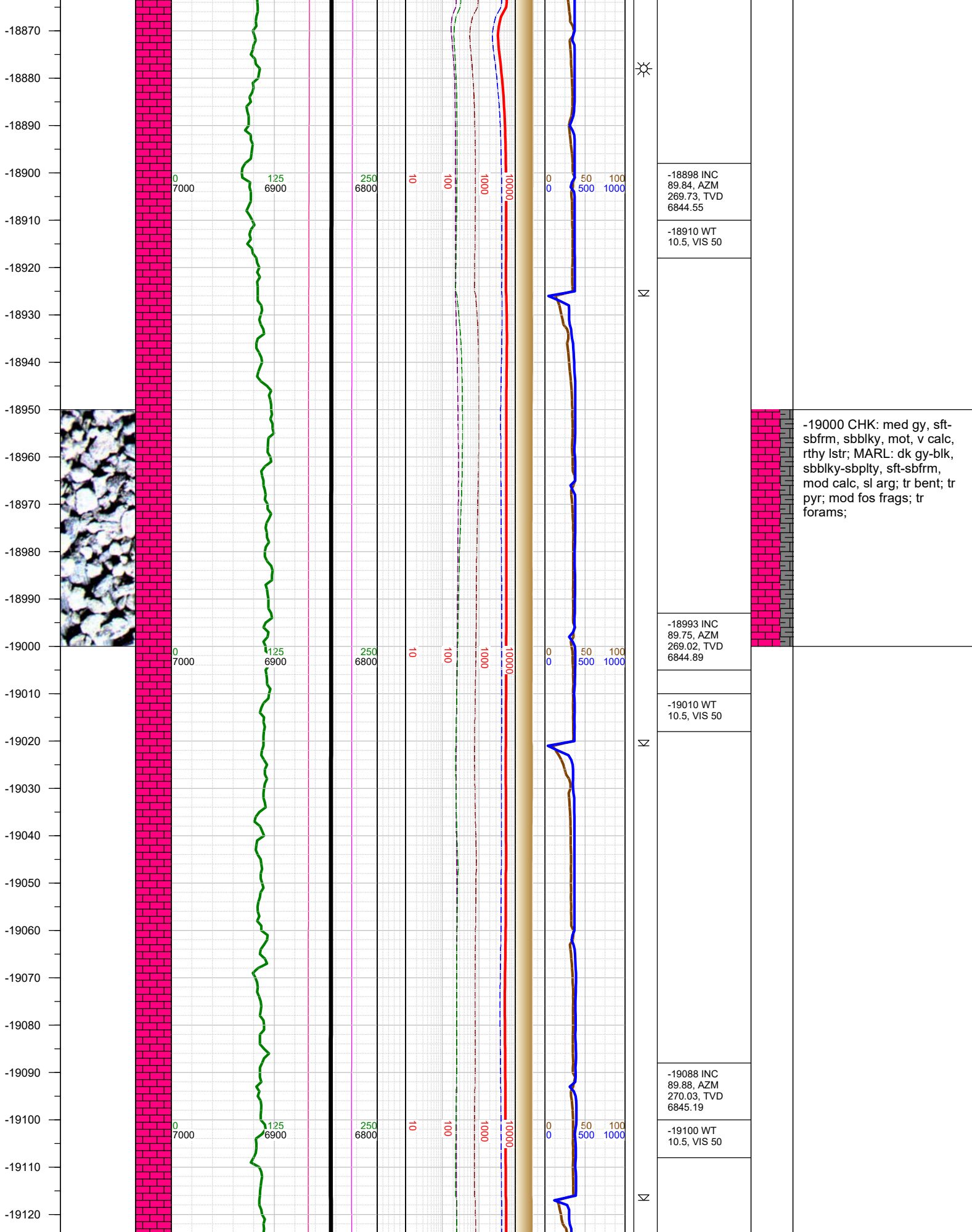




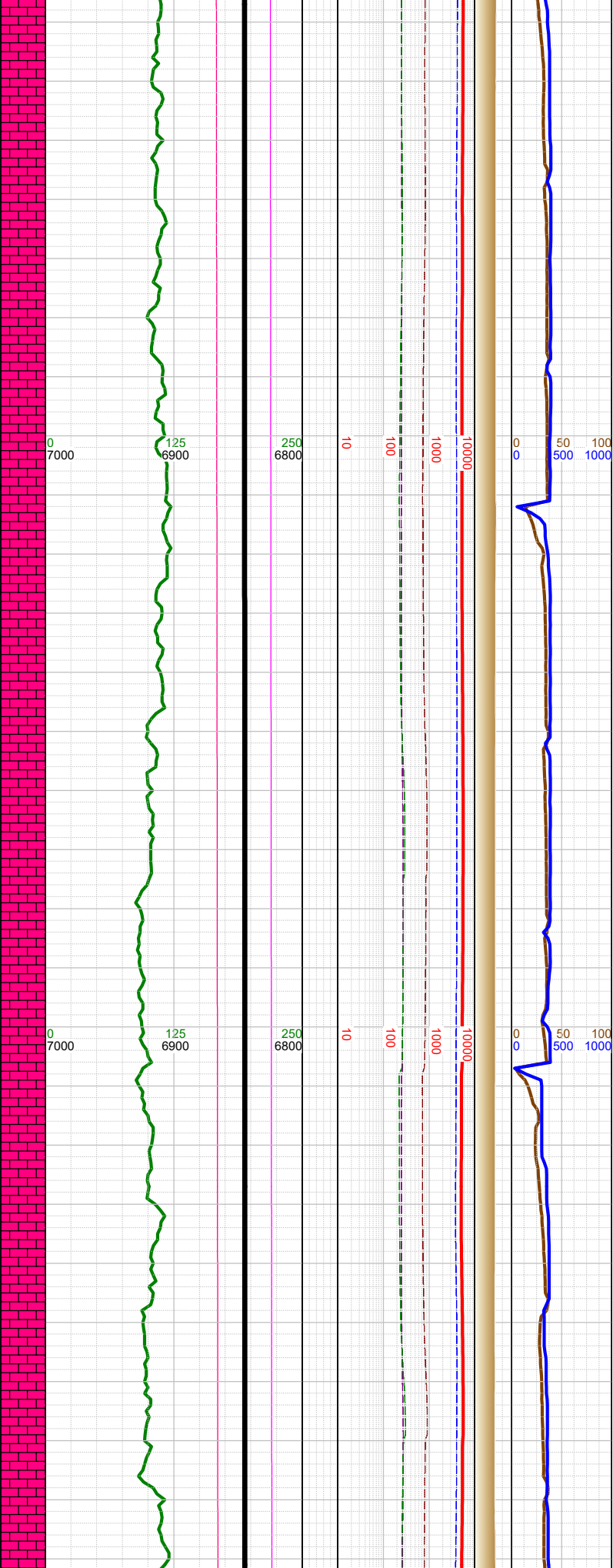
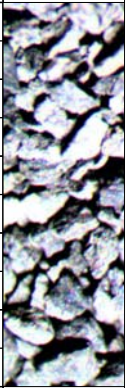
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		-18200 WT 10.4, VIS 47		-18250 CHK: med gy, sft-sbfrm, sbbkly, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbkly-sbplty, sft-sbfrm, mod calc, sl arg; tr bent; tr pyr; mod fos frags; tr forams;
		-18228 INC 90.23, AZM 271.49, TVD 6844.09		
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		-18300 WT 10.4, VIS 47		
		-18324 INC 90.15, AZM		







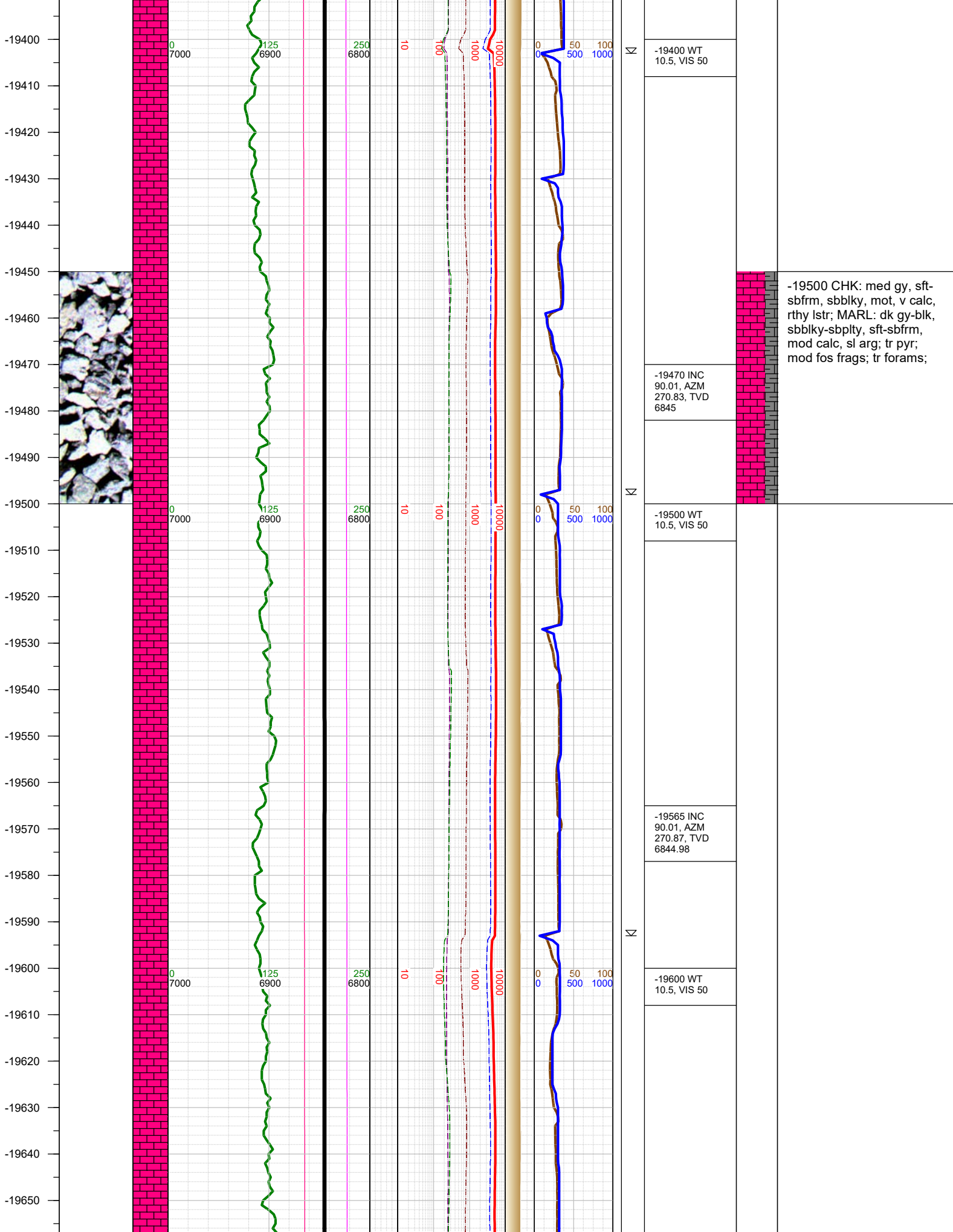
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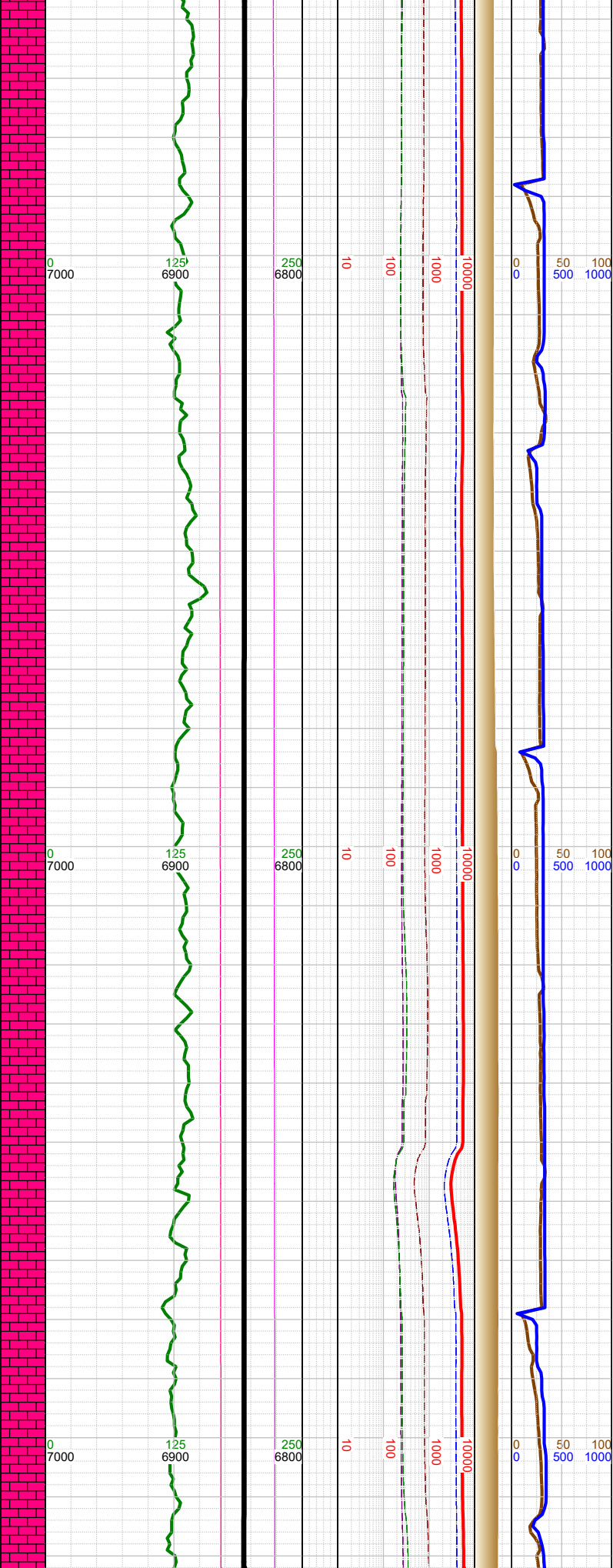
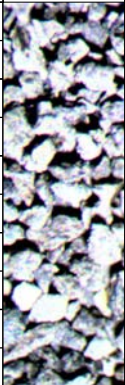
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	-19183 INC 90.19, AZM 271.66, TVD 6845.13	
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	-19279 INC 90.19, AZM 271.58, TVD 6844.82	
	-19300 WT 10.5, VIS 50	
	-19375 INC 89.79, AZM 269.46, TVD 6844.83	



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-19890
-19900
-19910
-19920

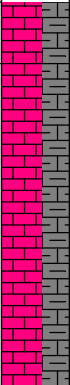


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-19661 INC 89.79, AZM 269.77, TVD 6845.15	
-19700 WT 10.5, VIS 50	
-19756 INC 89.97, AZM 270.65, TVD 6845.35	
-19800 WT 10.5, VIS 50	
-19852 INC 89.88, AZM 269.2, TVD 6845.47	
-19900 WT 10.5, VIS 50	



-19750 CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr pyr; mod fos frags; tr forams;

