

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **TC Aims 3-9-11**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 341

API #: 05-123-43746

LAT/LONG: 40.41407, -104.79867

SURFACE HOLE: SENE S8-T5N-R66W, 2632' FSL, 1190' FEL

BOTTOM HOLE: S11-T5N-R66W, 2309' FSL, 2495' FWL



Earth Science Agency, LLC

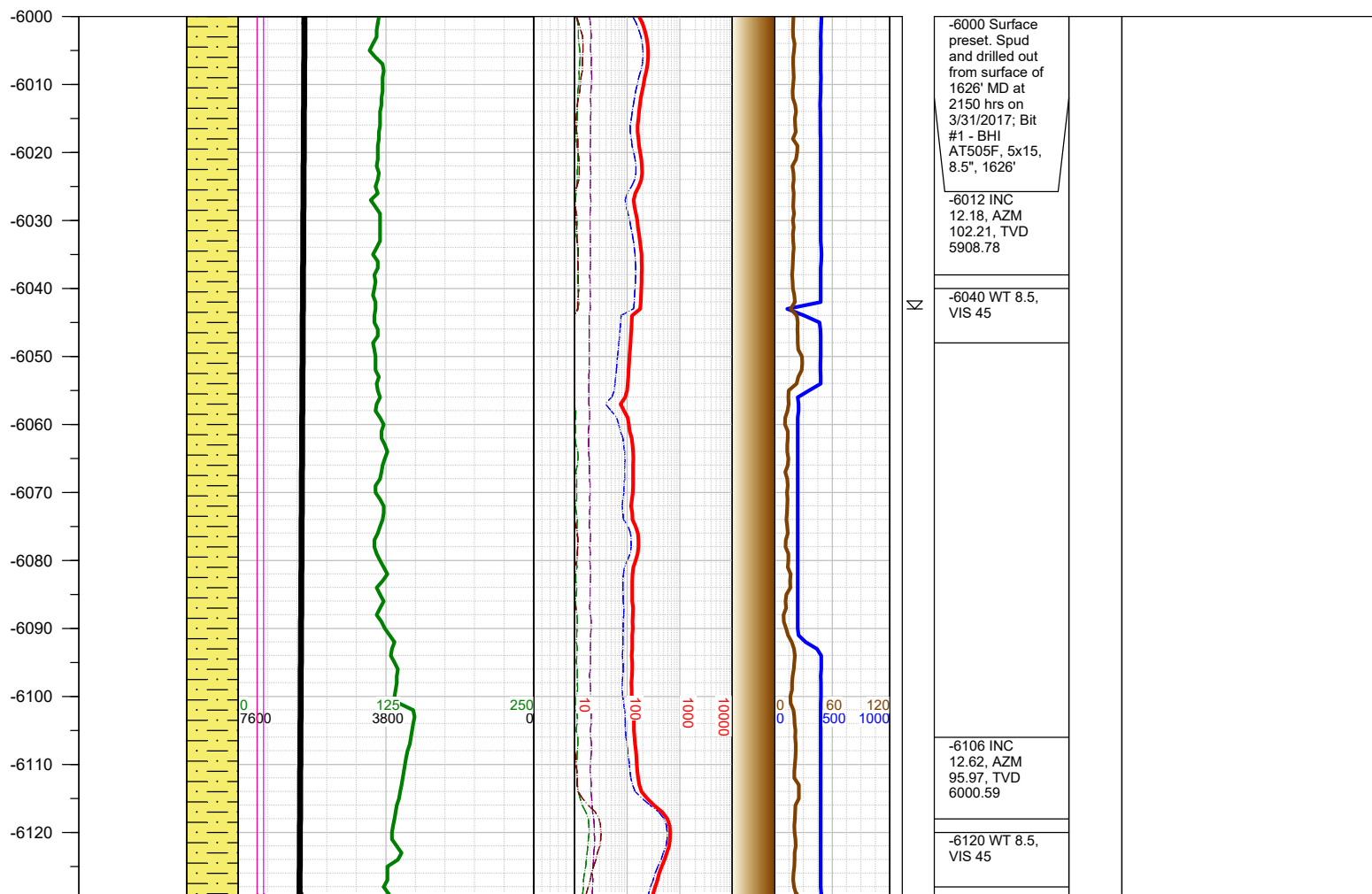
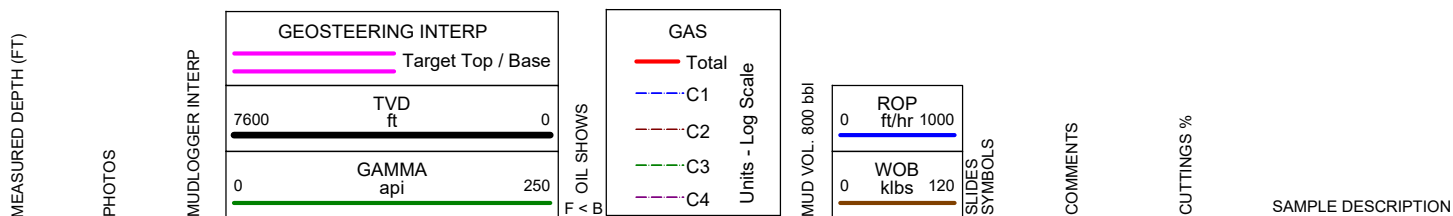
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4791'
KELLY BUSHING: 4816'
DRILLING FLUID: OBM
TVD VS. MD: 6945' / 20195'
SPUD DATE: April 1, 2017
TD DATE: April 7, 2017

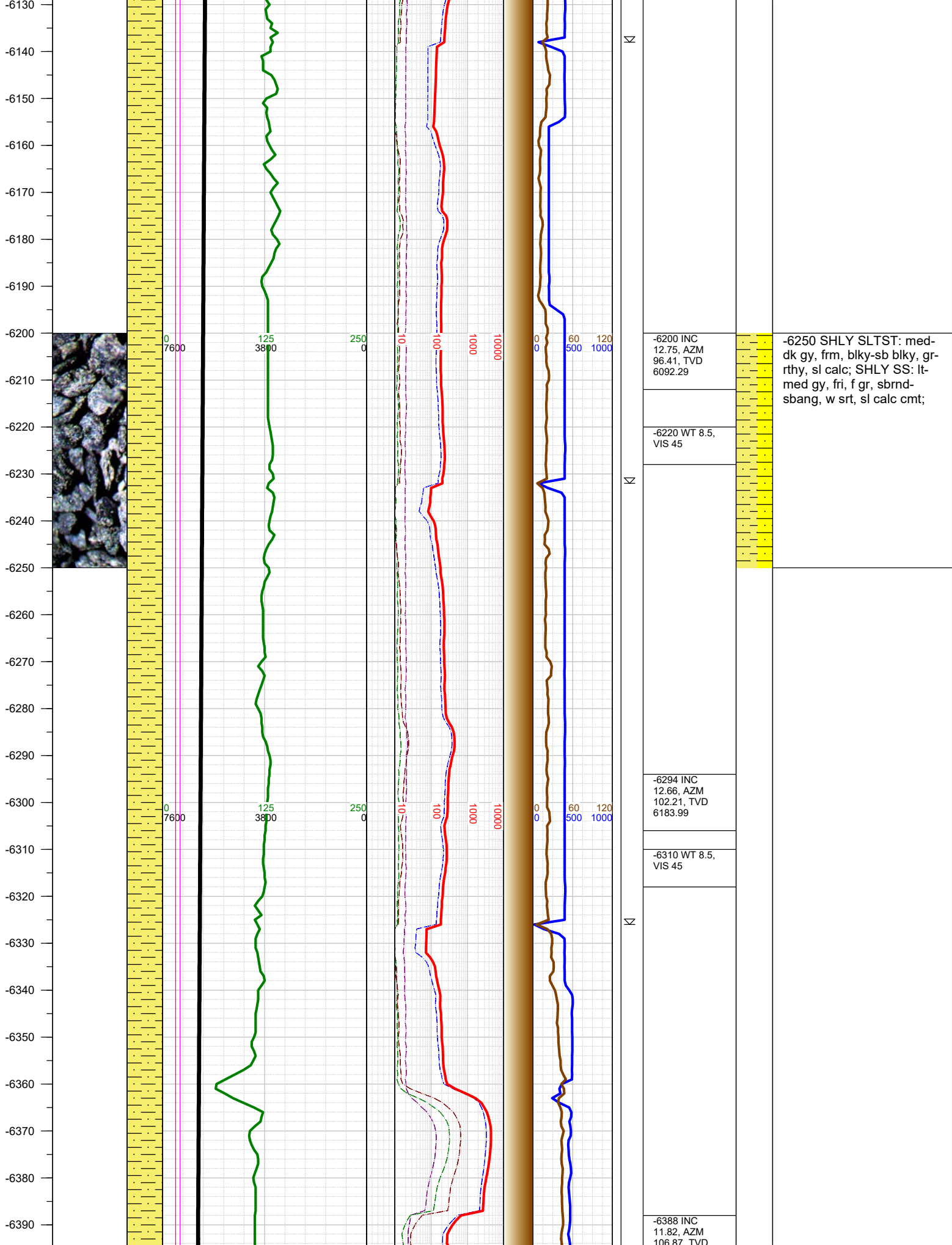
DEPTHS LOGGED: 6000' - 20195'
DATES LOGGED: April 1, 2017 - April 7, 2017
GEOLOGISTS: Joe Coon, Dominic Pitre
SCALE: 5" = 100'

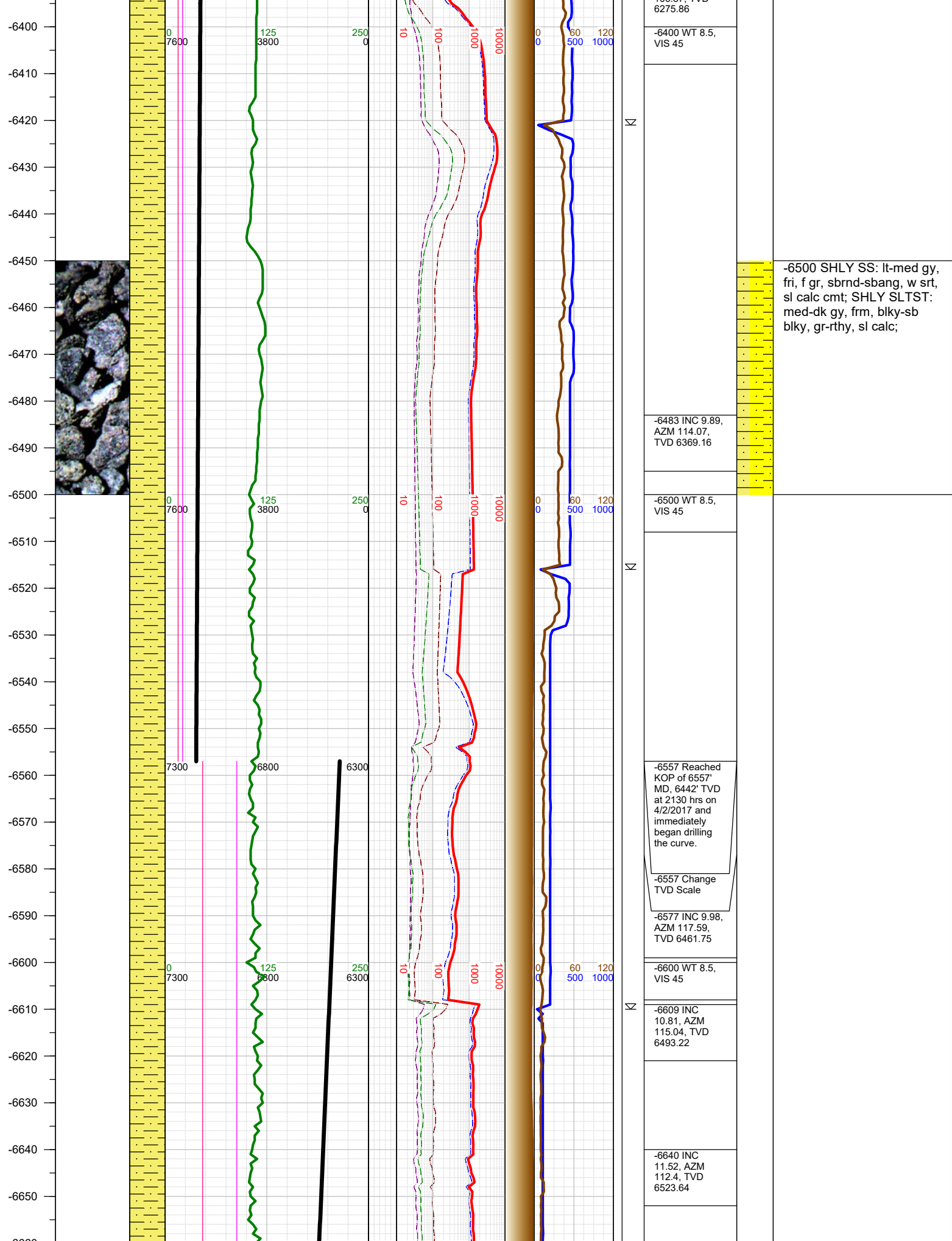
LEGEND

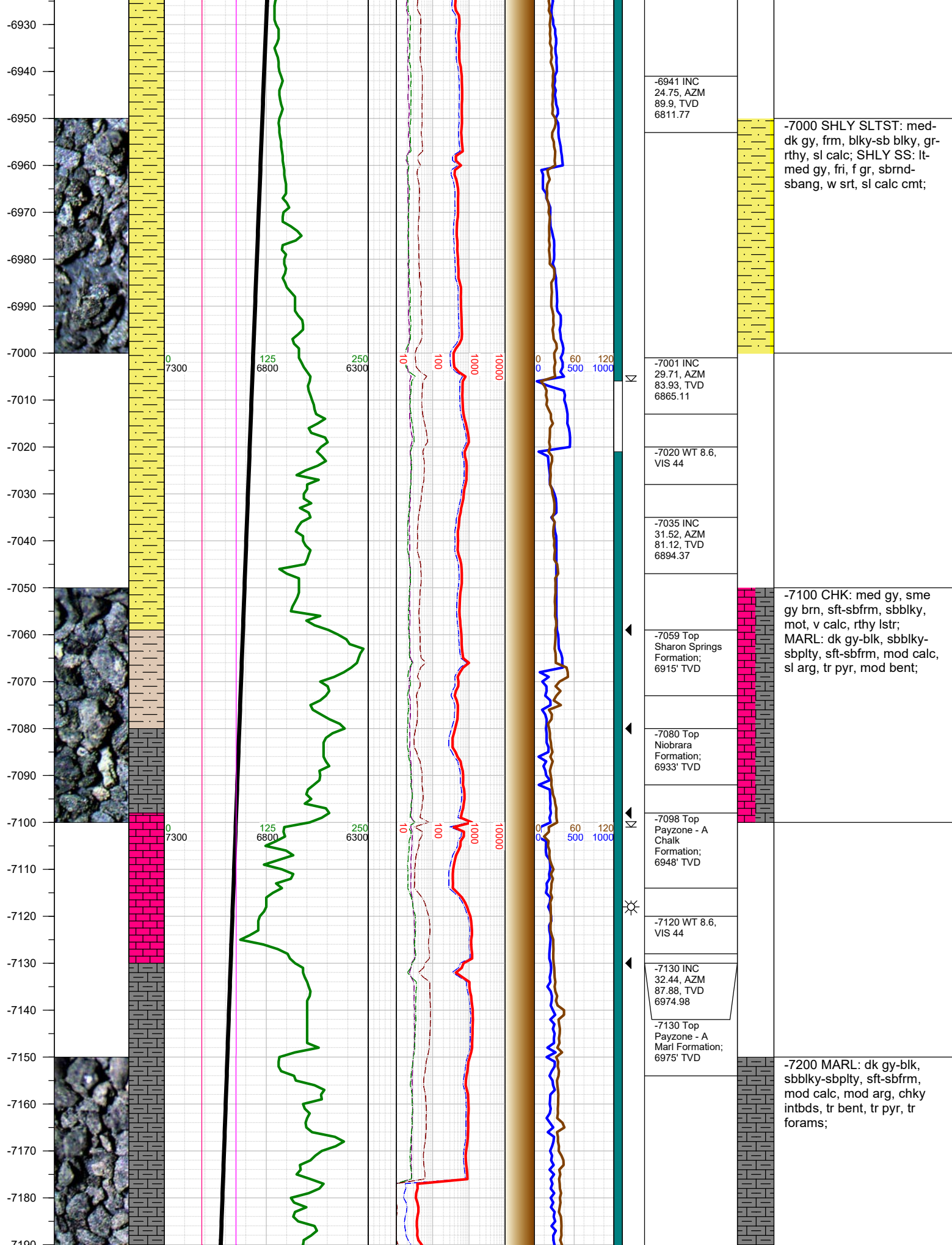


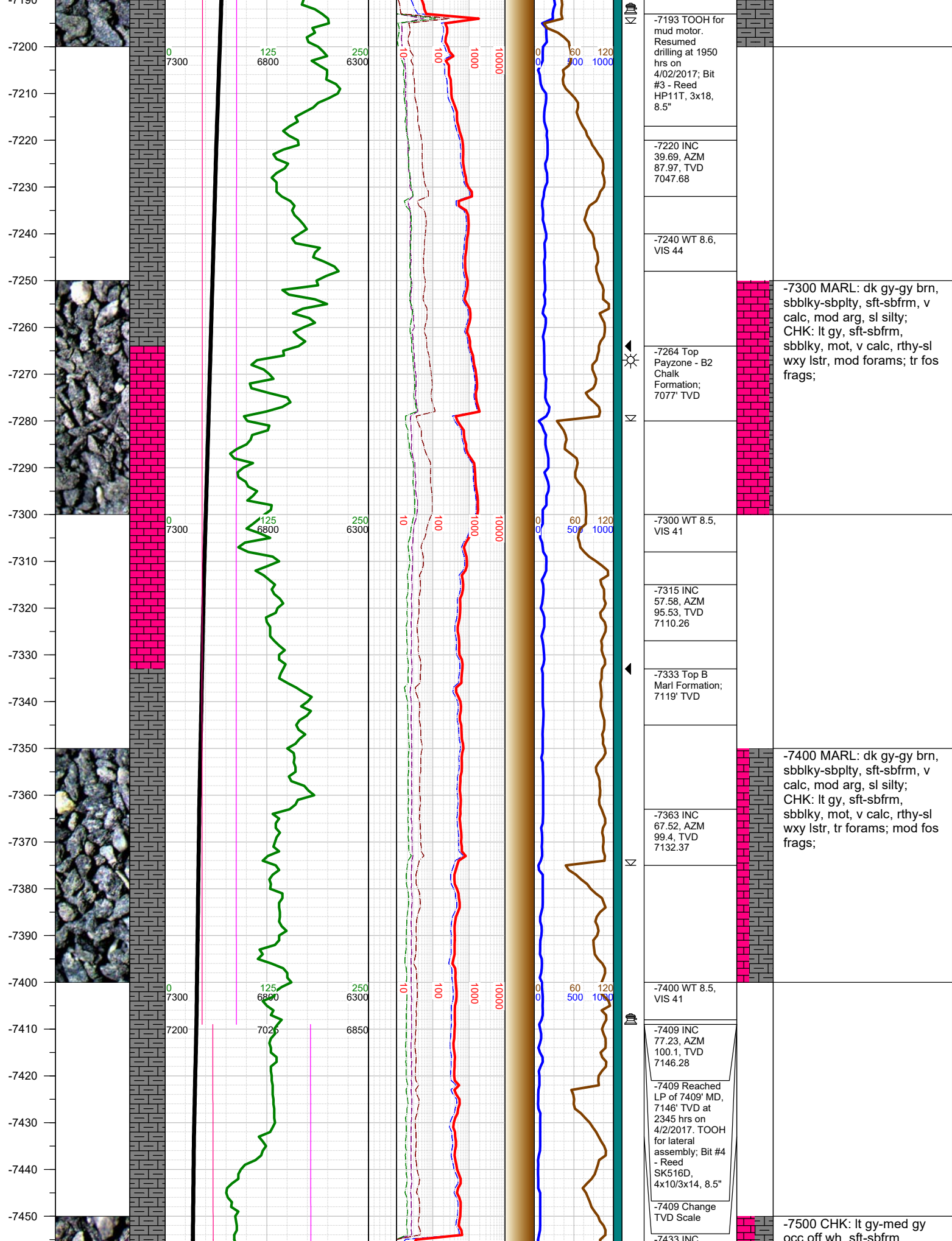
FORMATION \approx CONNECTION Δ MIDNIGHT NEW BIT GAS SHOW FAULT

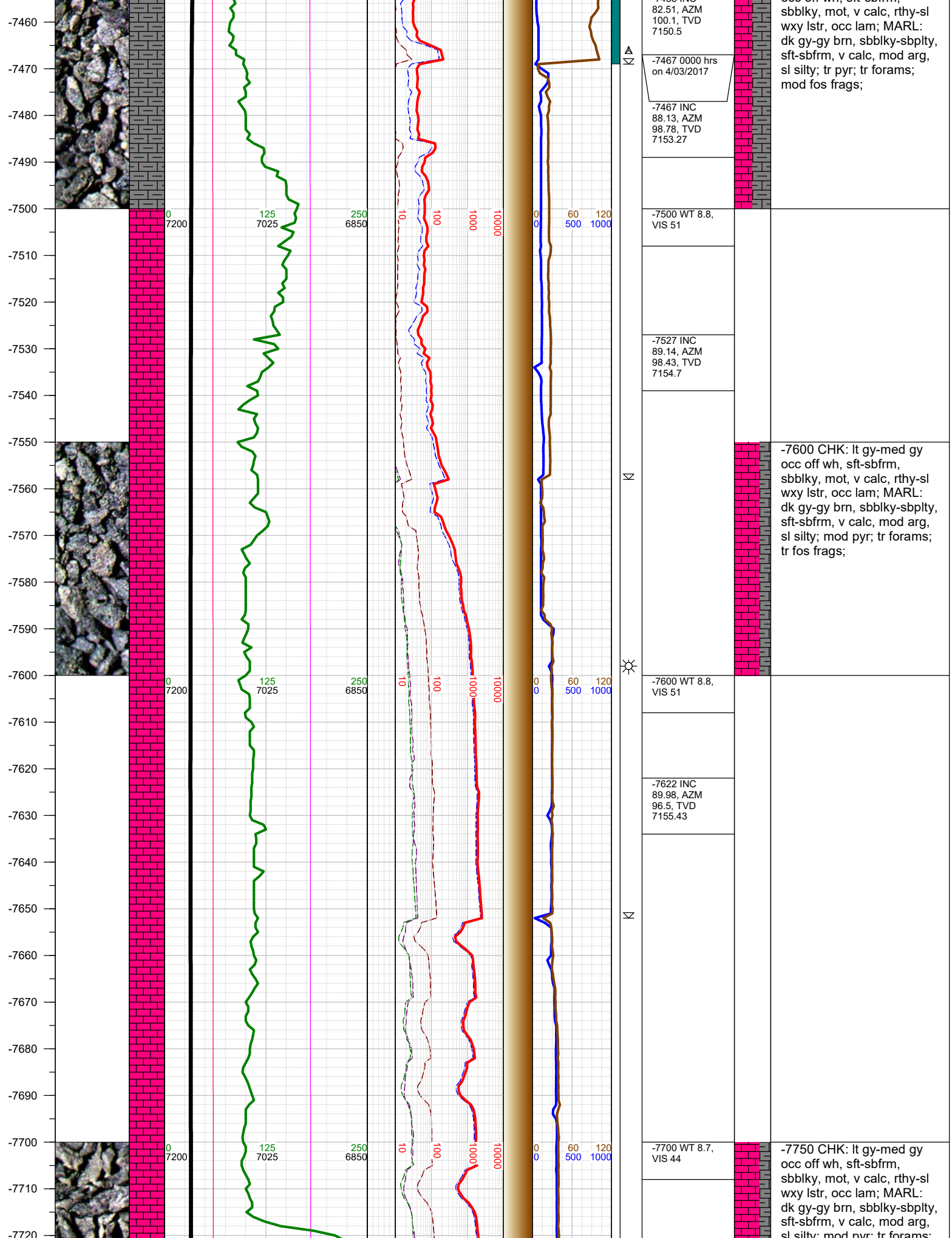


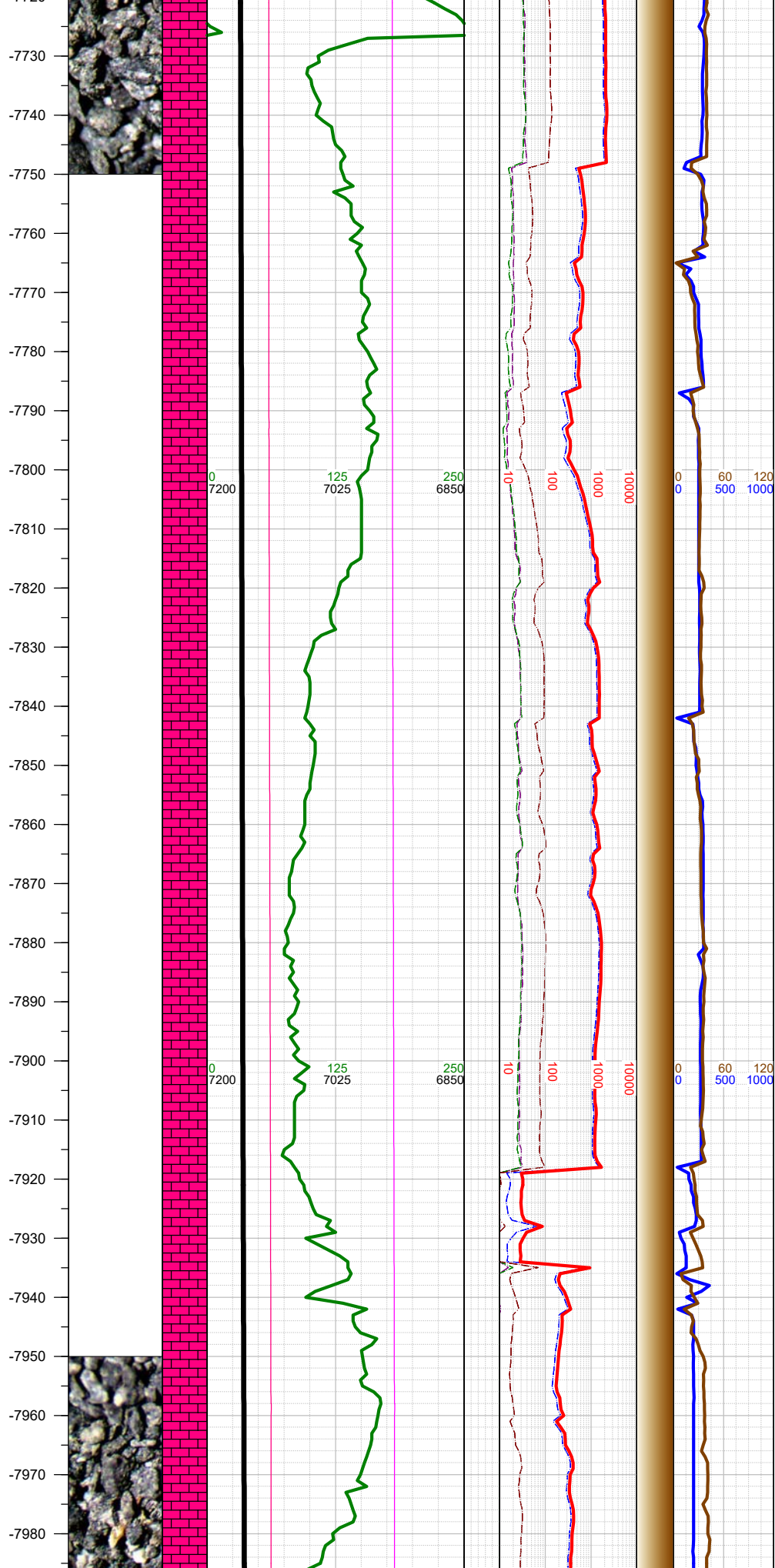




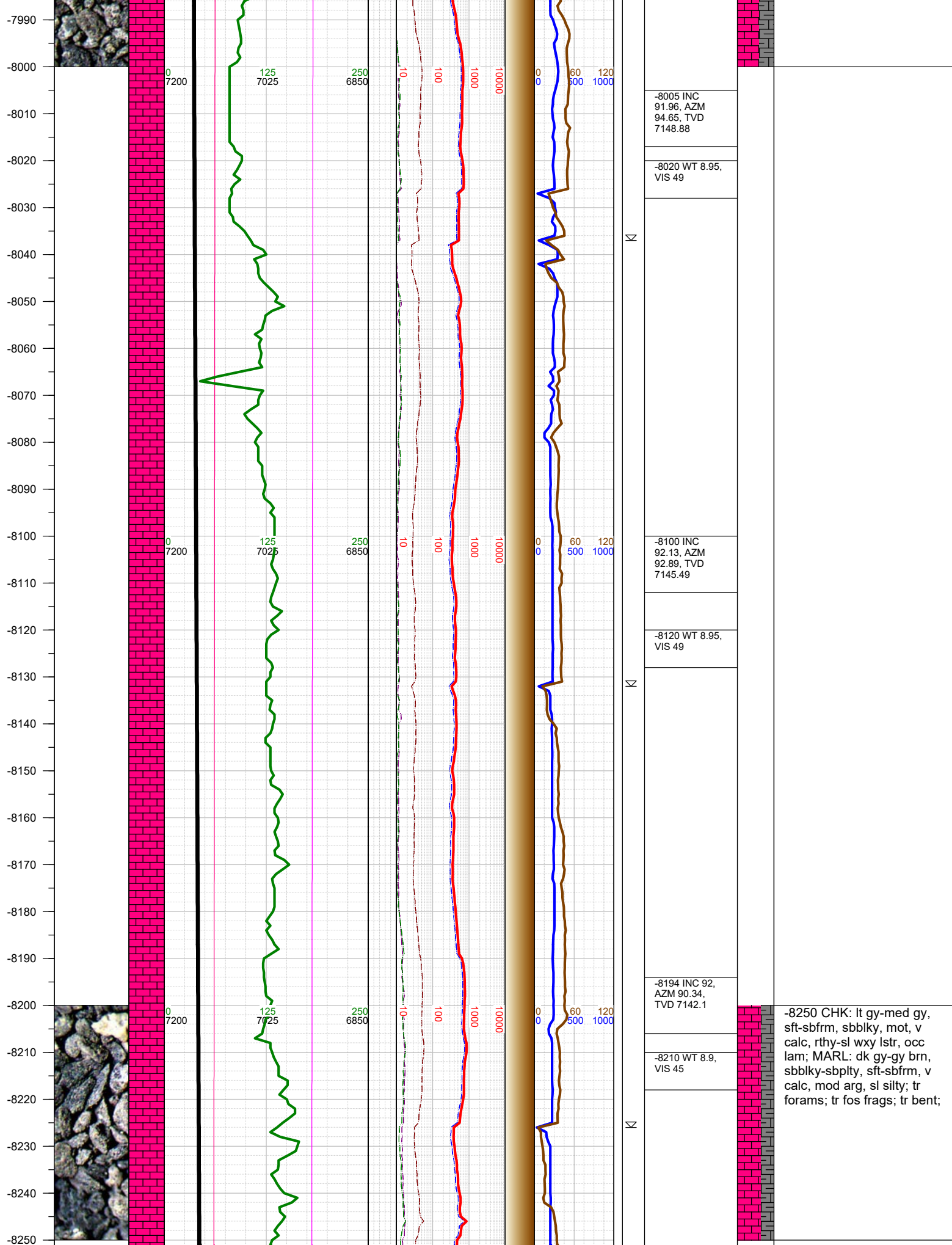


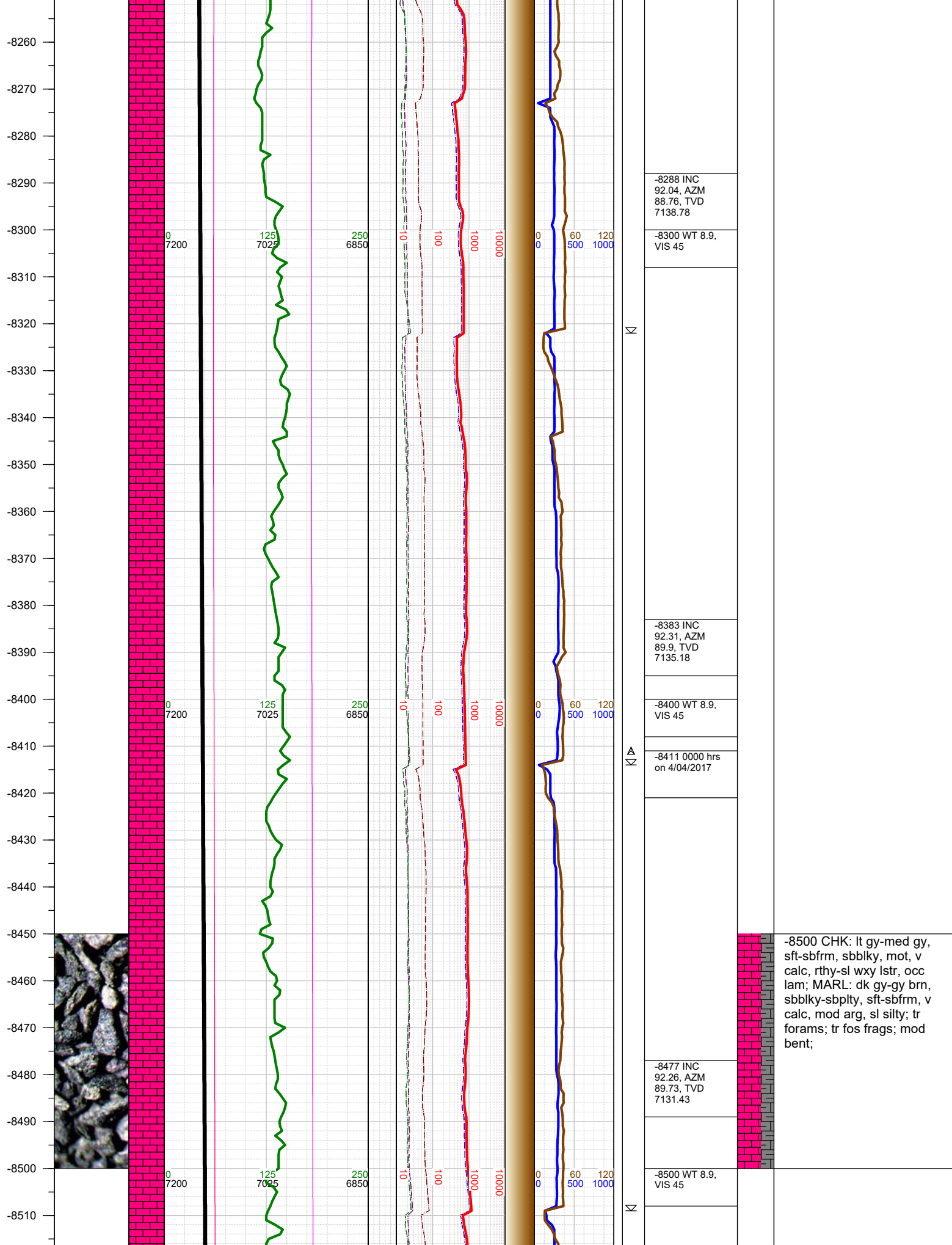


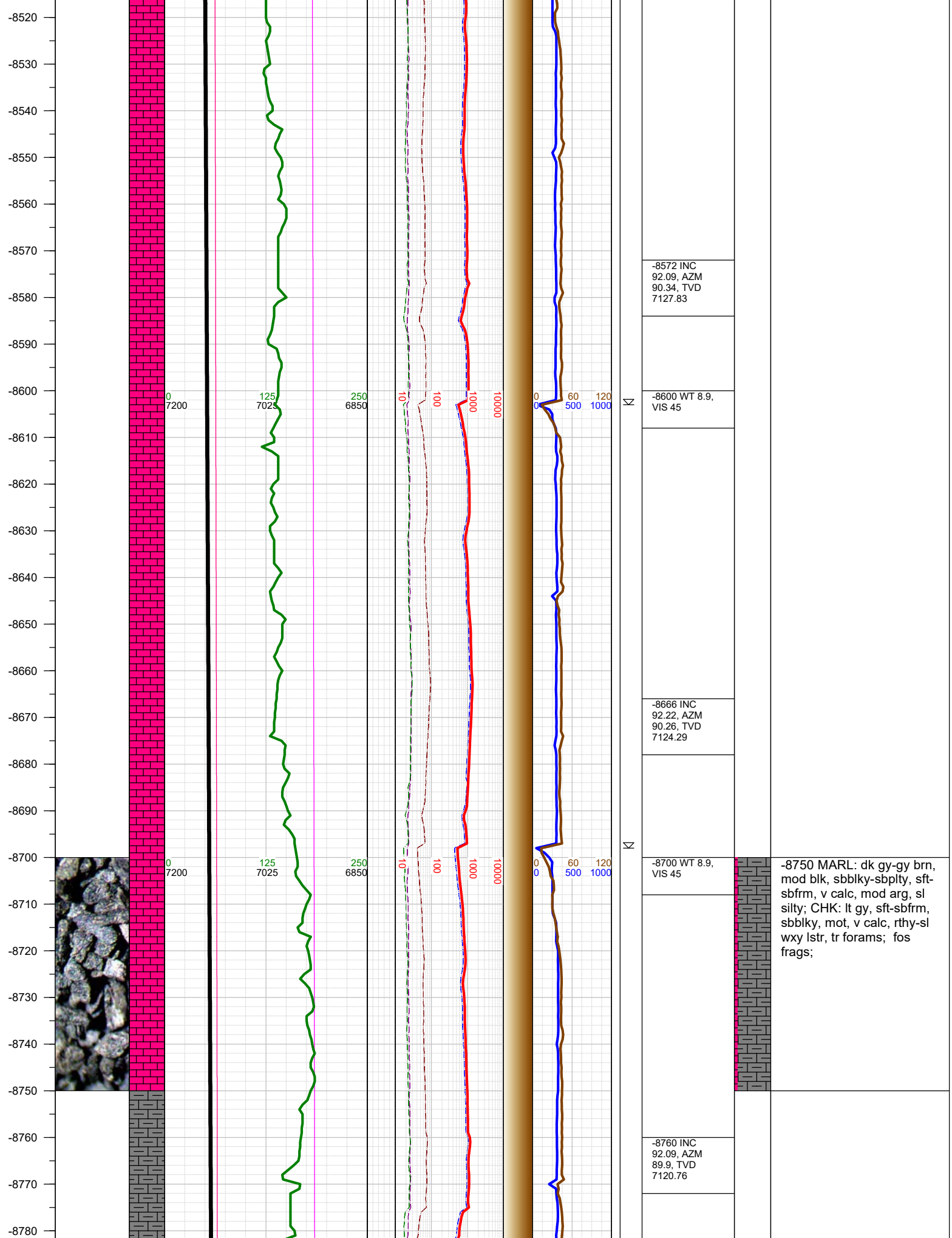


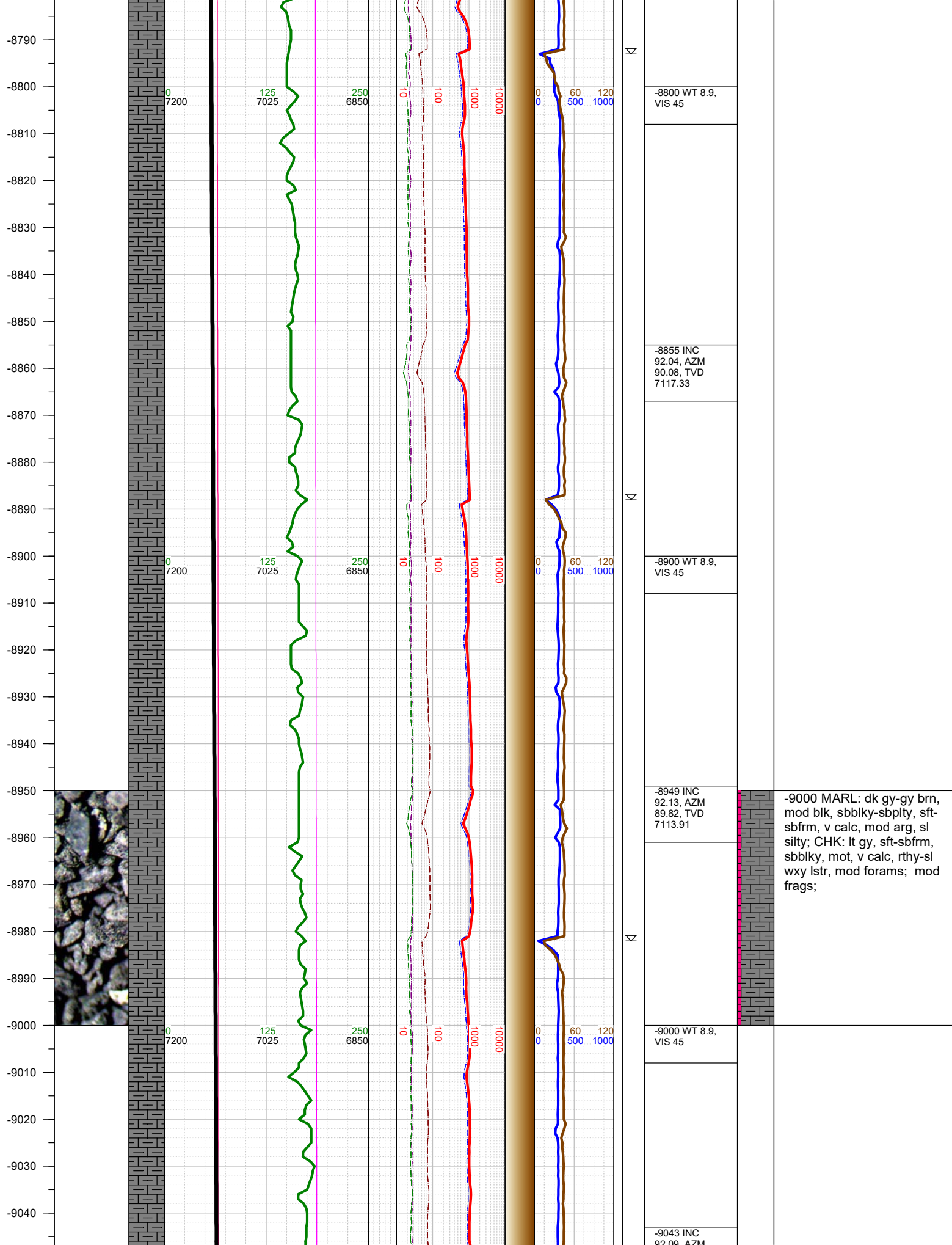


Σ	-7721 INC 91.08, AZM 91.66, TVD 7154.51		sl silty; mod pyr, & forams; tr fos frags;
	-7800 WT 8.7, VIS 44		
Σ	-7816 INC 91.03, AZM 91.4, TVD 7152.76		
	-7900 WT 8.7, VIS 44		
Σ	-7910 INC 90.86, AZM 93.77, TVD 7151.21		
	-7934 TOOH for MWD. Resumed drilling at 2100 hrs on 4/03/2017.		
		-8000 CHK: lt gy-med gy, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr, occ lam; MARL: dk gy-gy brn, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr forams; tr fos frags;	

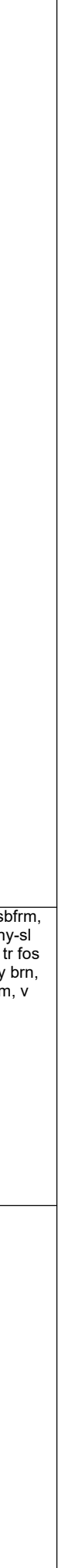
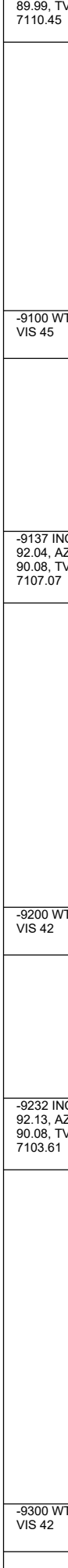
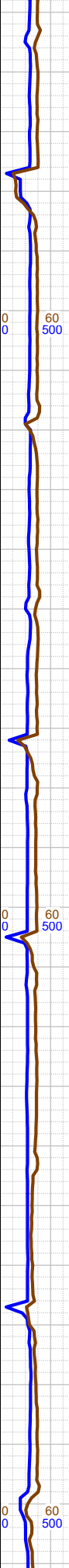
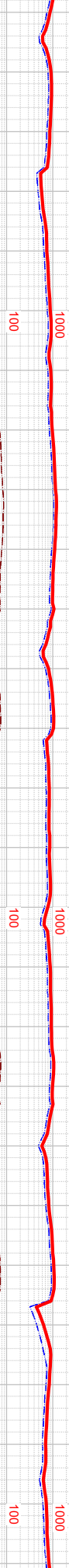
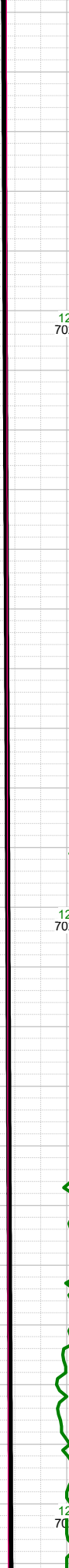
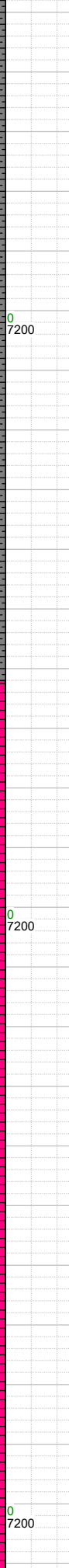
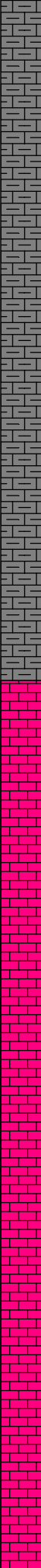
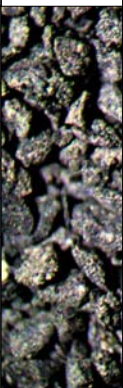






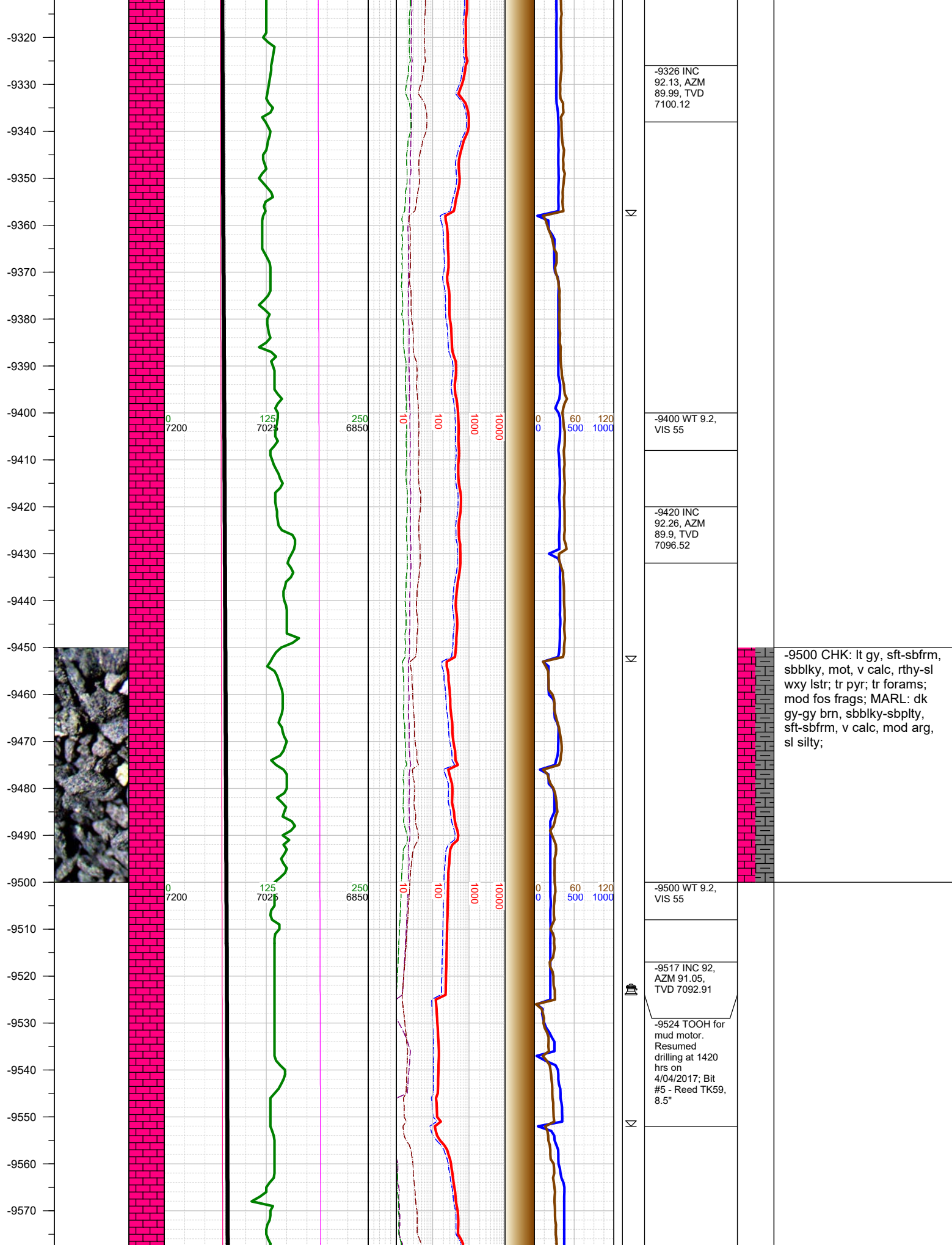


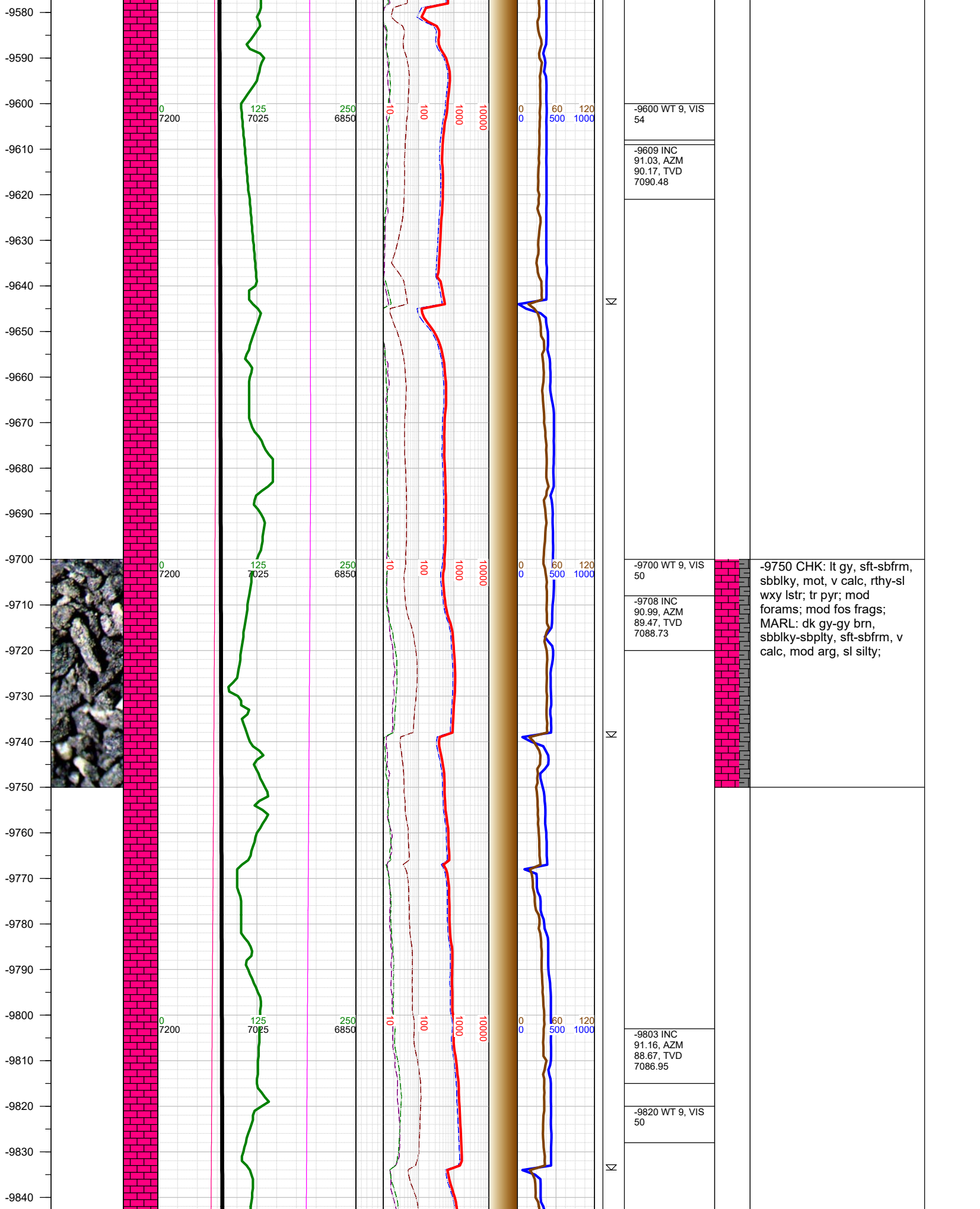
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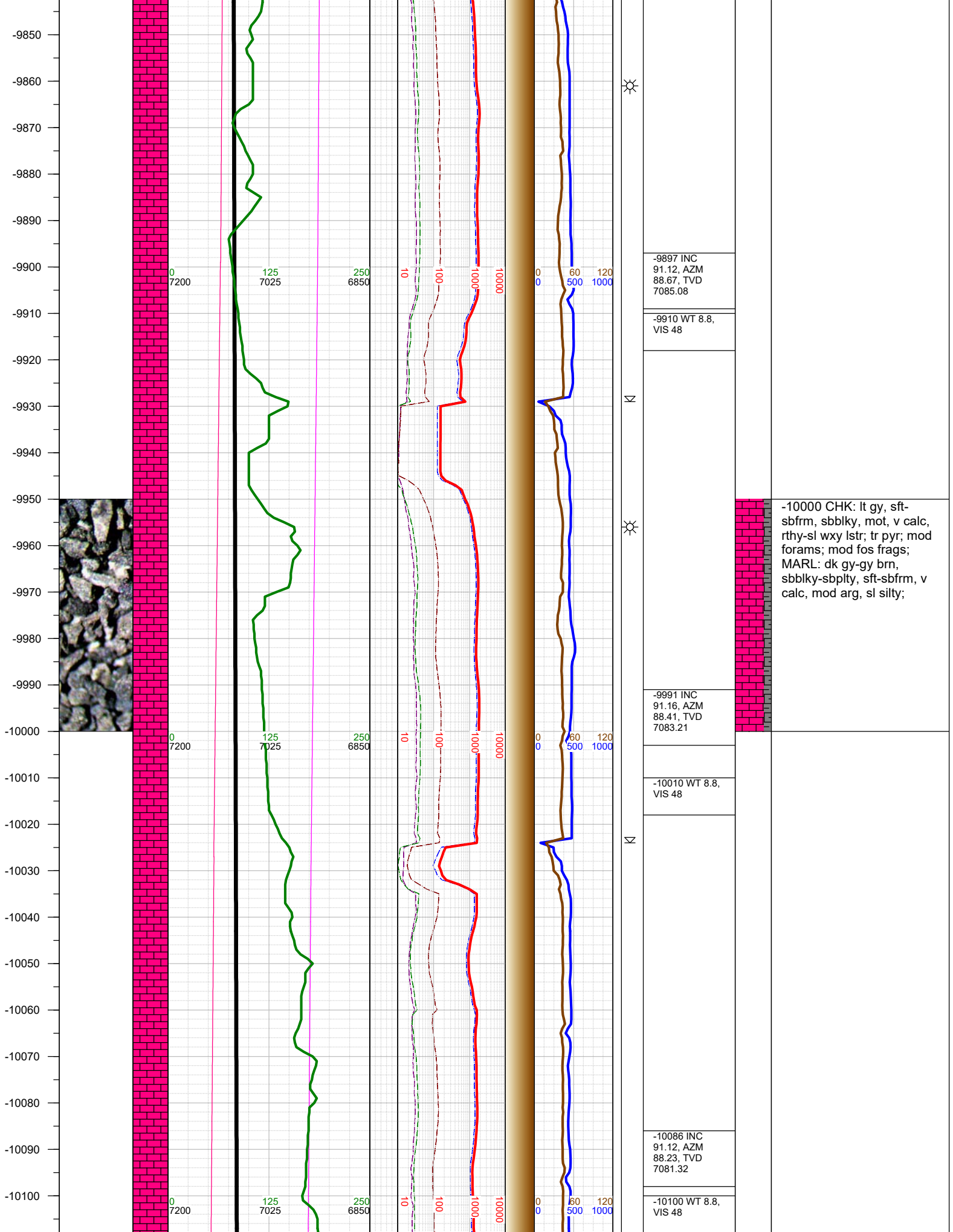


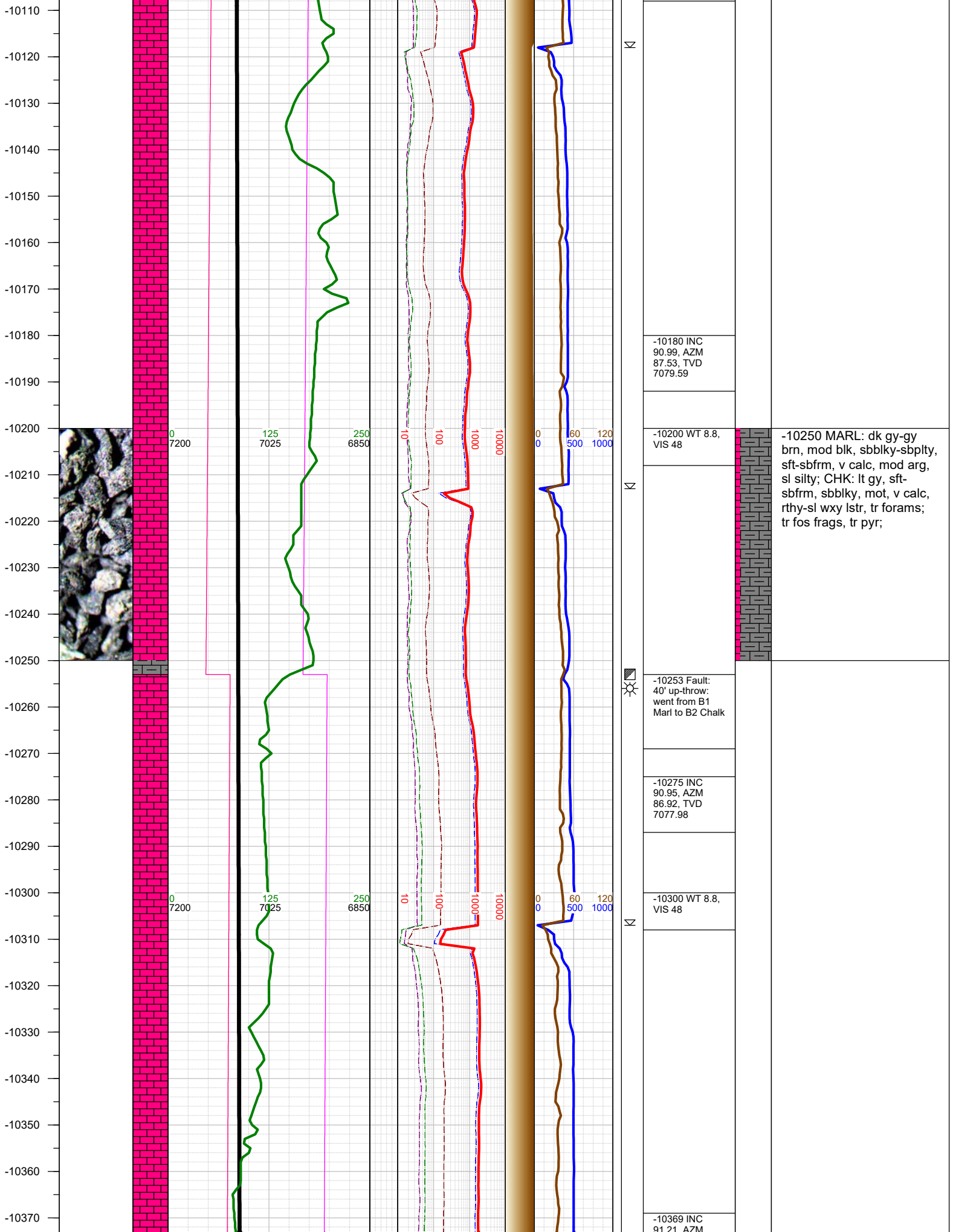
89.99, TVD 7110.45
-9100 WT 8.9, VIS 45
-9137 INC 92.04, AZM 90.08, TVD 7107.07
-9200 WT 8.9, VIS 42
-9232 INC 92.13, AZM 90.08, TVD 7103.61
-9300 WT 8.9, VIS 42

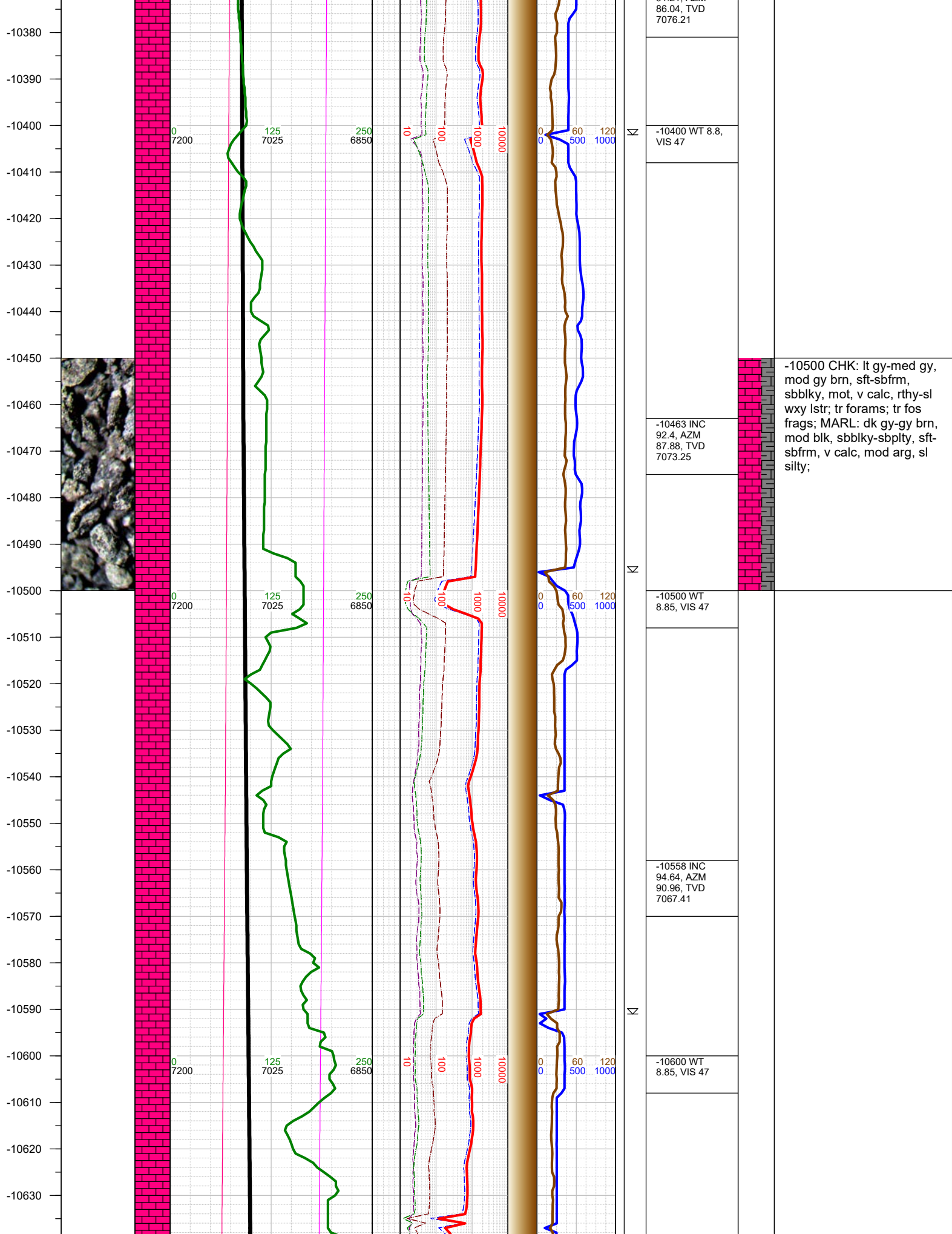
-9250 CHK: lt gy, sft-sbfrm,
sbbiky, mot, v calc, rthy-sl
wxy lstr, mod forams; tr fos
frags; MARL: dk gy-gy brn,
sbbiky-sbply, sft-sbfrm, v
calc, mod arg, sl silty;

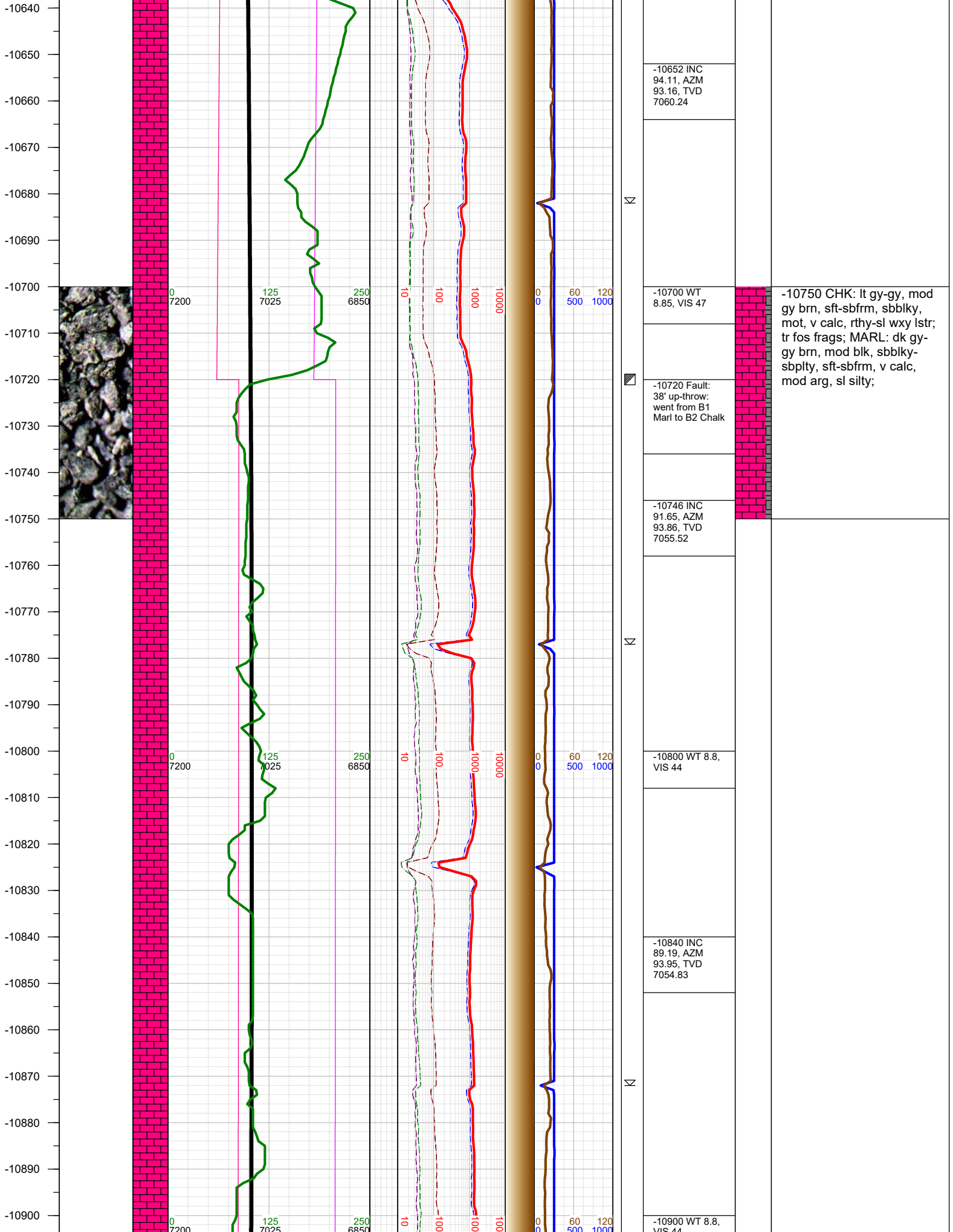




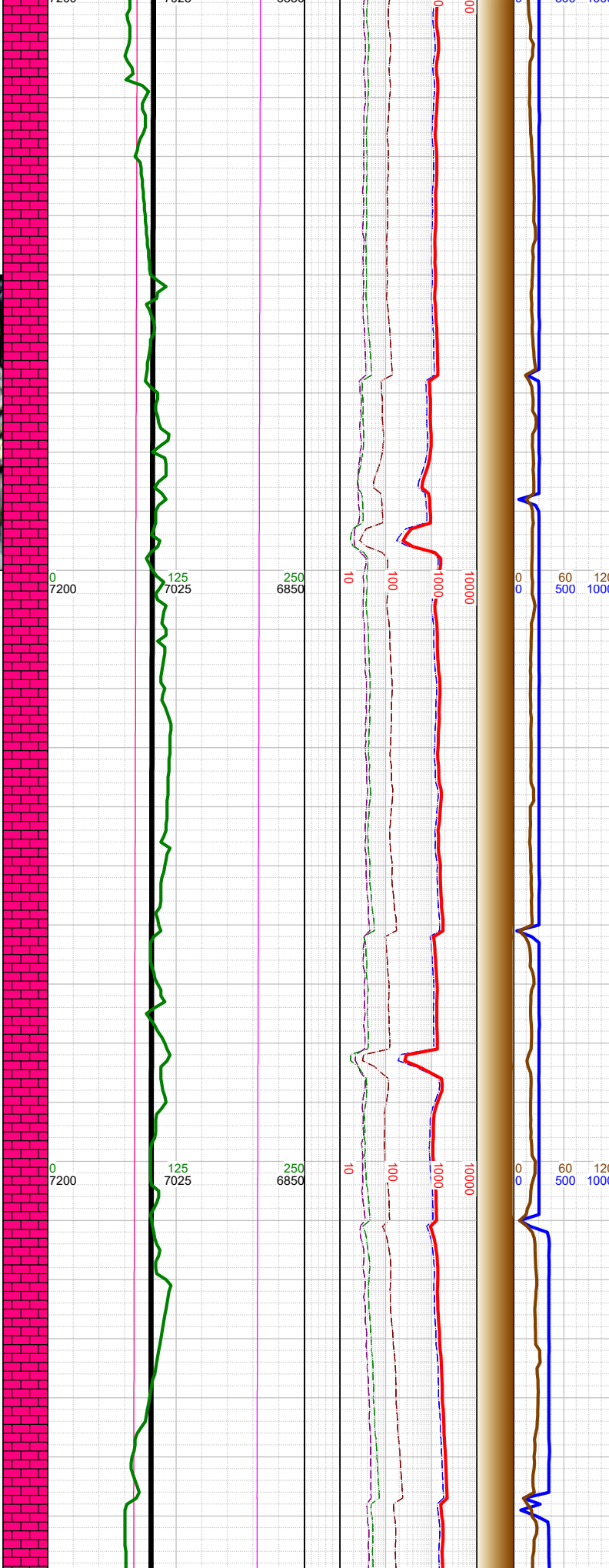
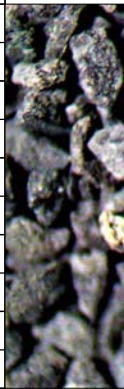








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-10934 INC
89.01, AZM
91.22, TVD
7056.31

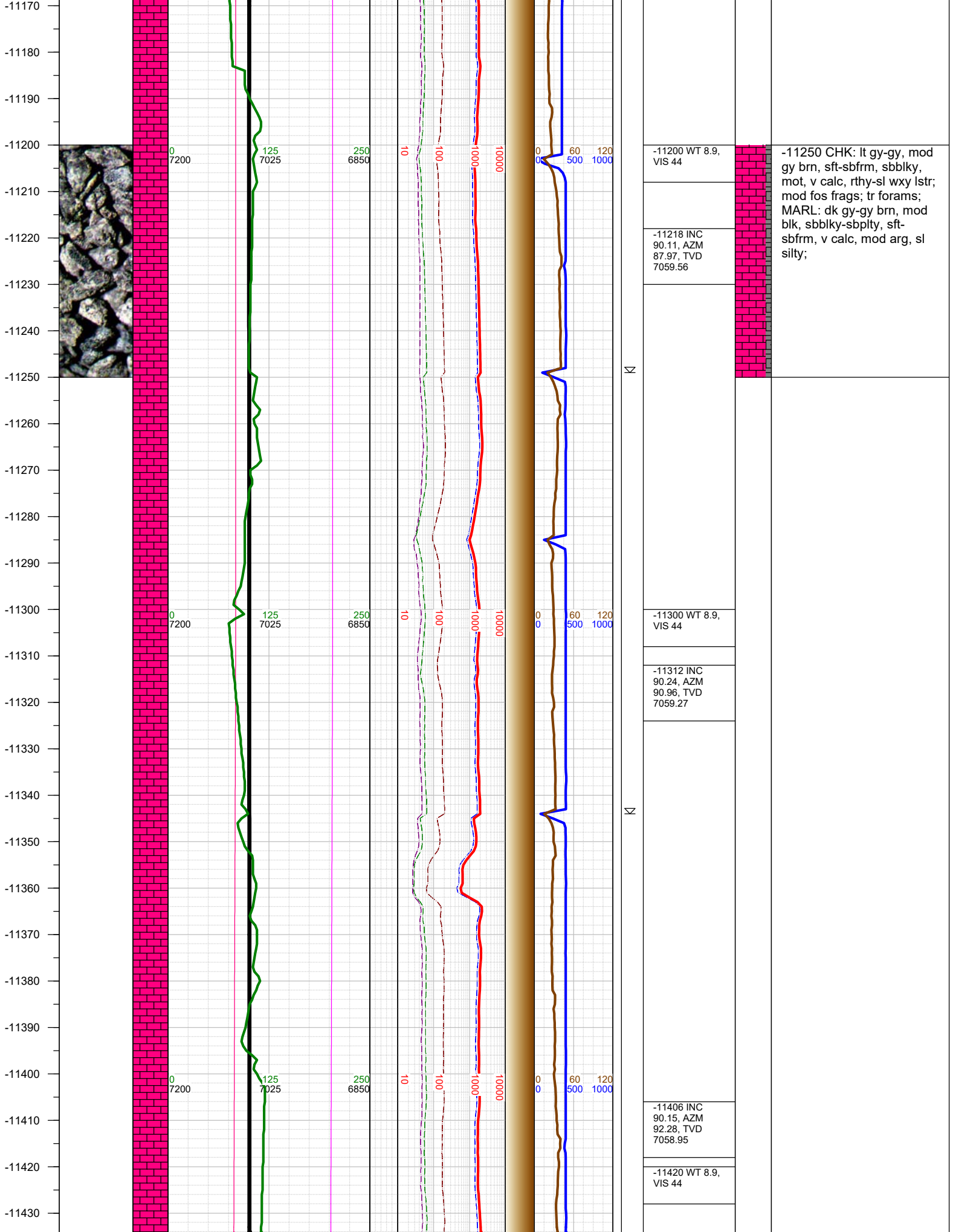
-11000 WT 8.8,
VIS 44

-11029 INC
88.84, AZM
87.97, TVD
7058.09

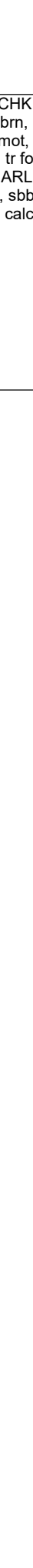
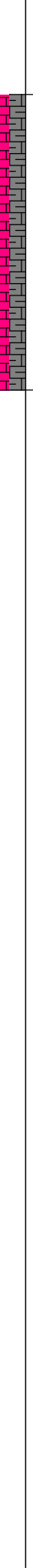
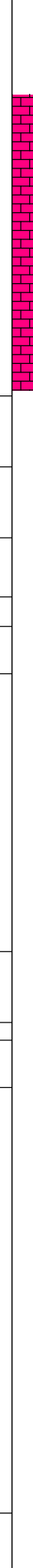
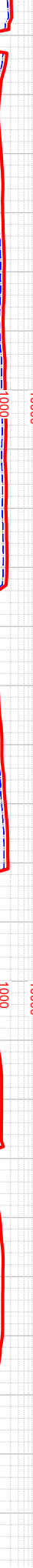
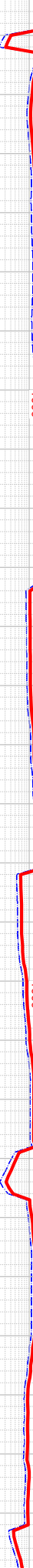
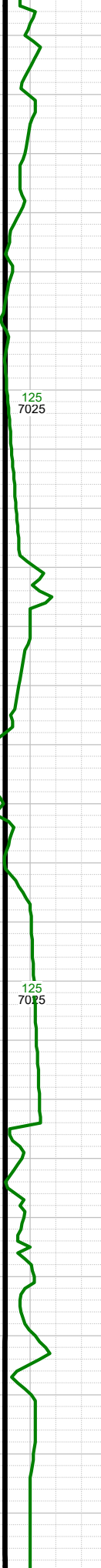
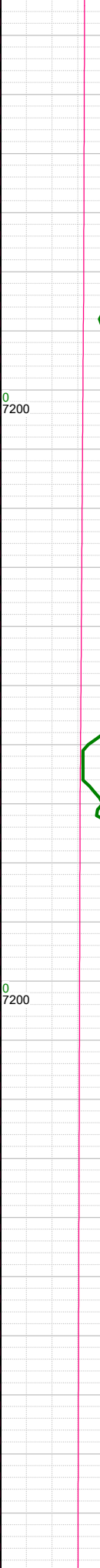
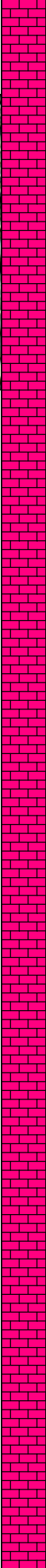
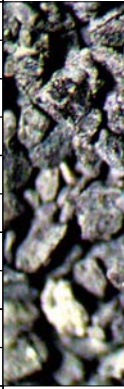
-11100 WT 8.9,
VIS 44

-11123 INC
89.63, AZM
85.42, TVD
7059.35

-11000 CHK: lt gy-gy, mod
gy brn, sft-sbfrm, sbblky,
mot, v calc, rthy-sl wxy lstr;
mod fos frags; MARL: dk
gy-gy brn, mod blk, sbblky-
sbplty, sft-sbfrm, v calc,
mod arg, sl silty;



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-11500 CHK: lt gy-med gy,
mod gy brn, sft-sbfrm,
sbbiky, mot, v calc, rthy-sl
wxy lstr; tr forams; tr fos
frags; MARL: dk gy-gy brn,
mod blk, sbbiky-sbply, sft-
sbfrm, v calc, mod arg, sl
silty;

-11501 INC
89.93, AZM
94.12, TVD
7058.89

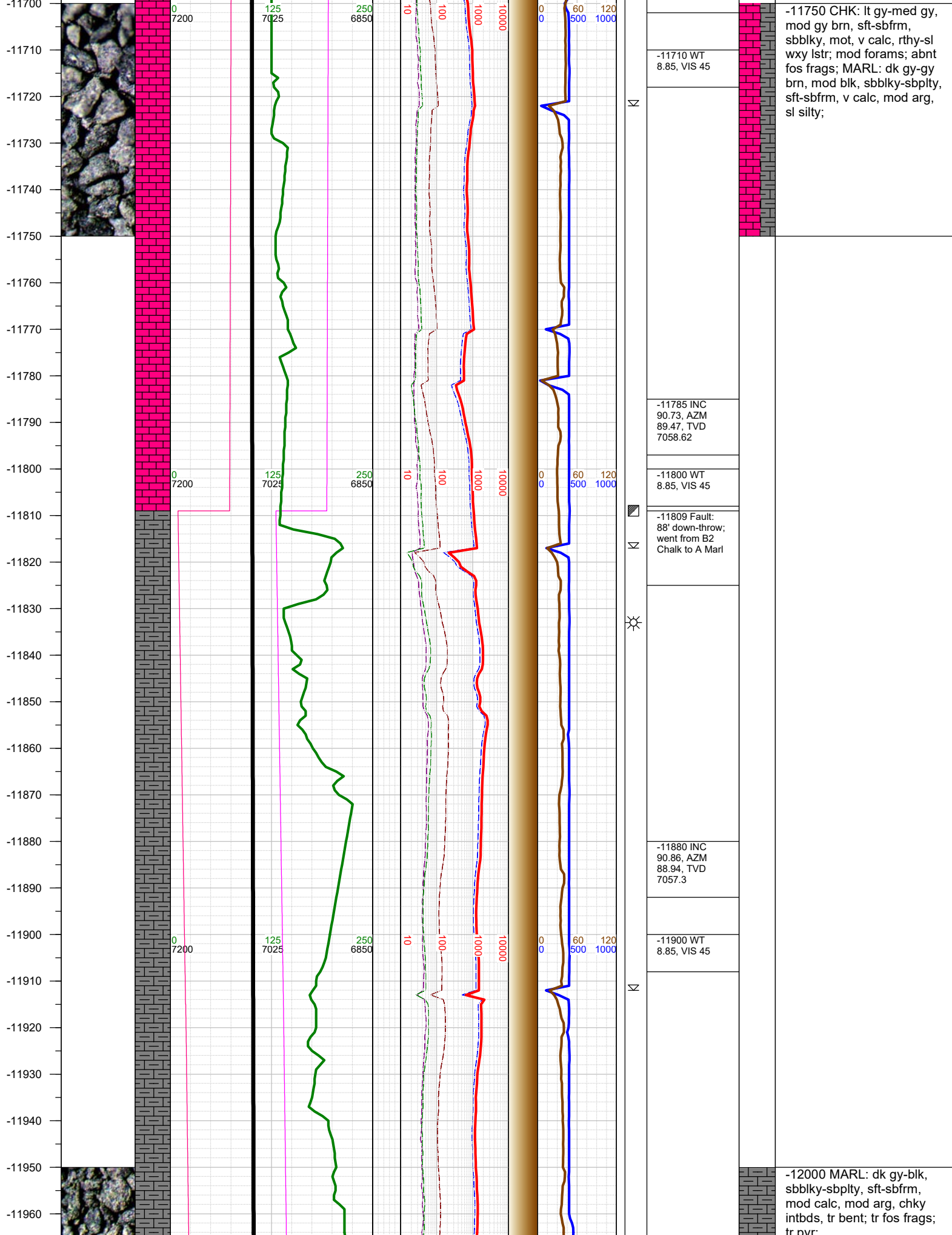
-11525 0000 hrs
on 4/05/2017

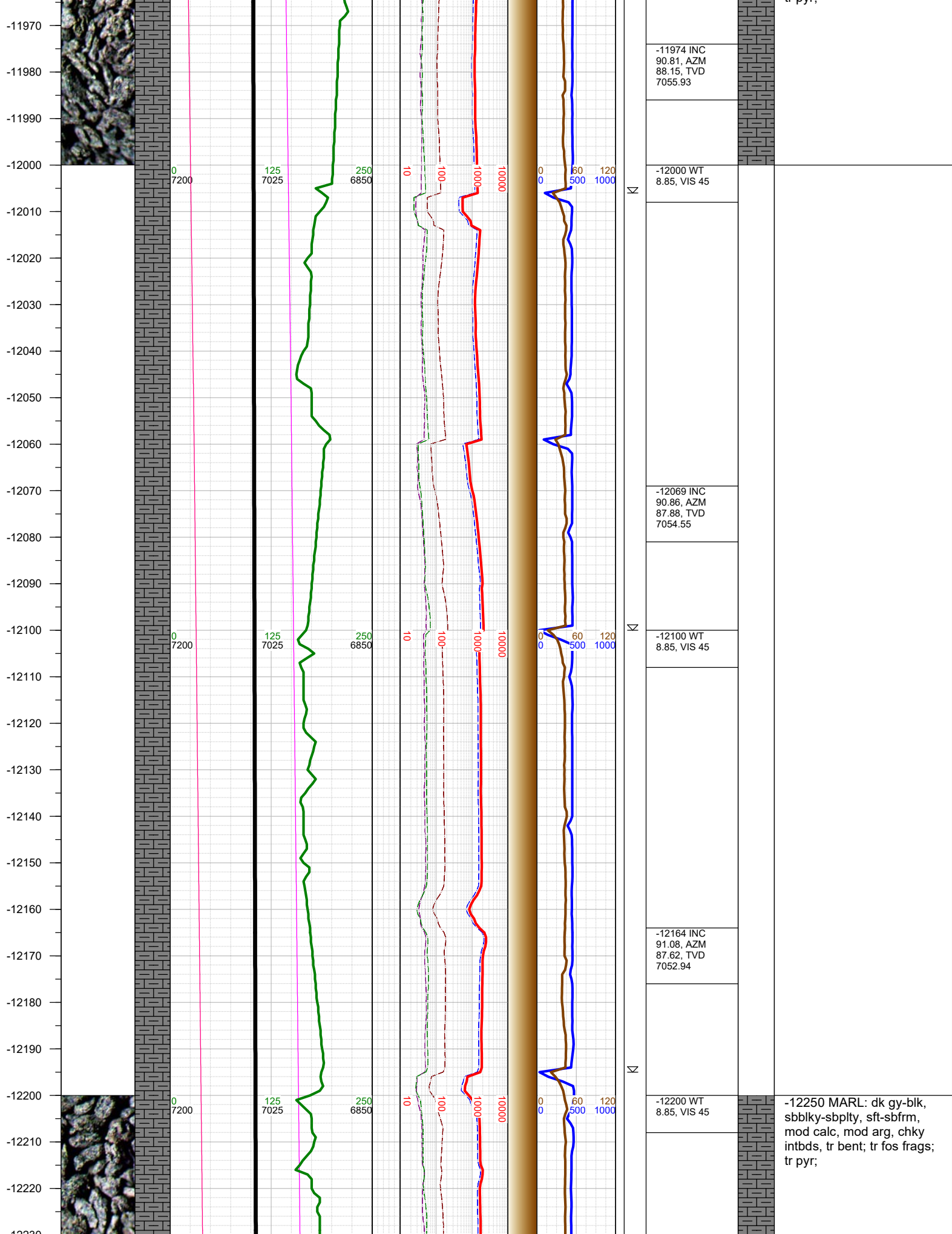
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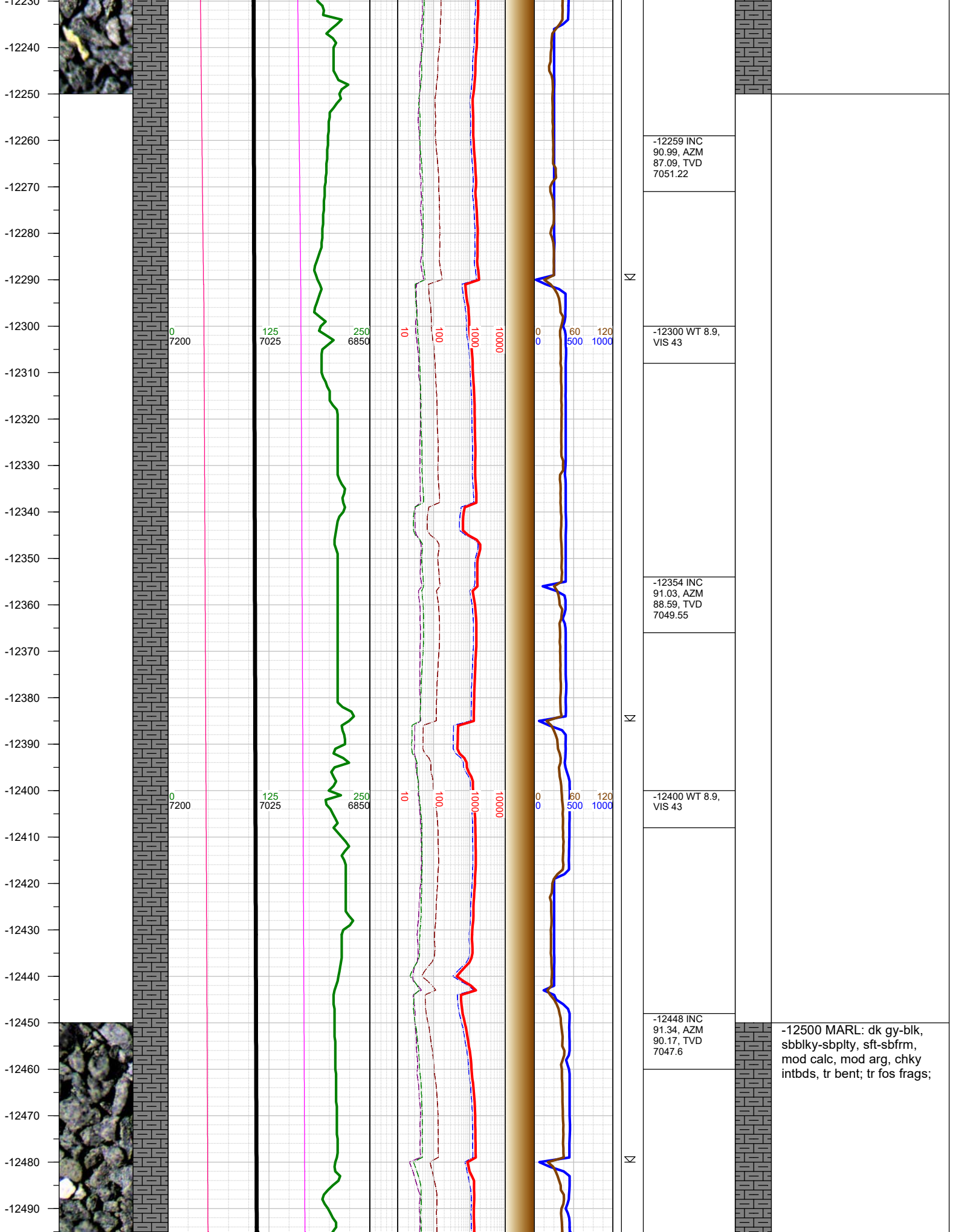
-11595 INC
89.85, AZM
93.24, TVD
7059.07

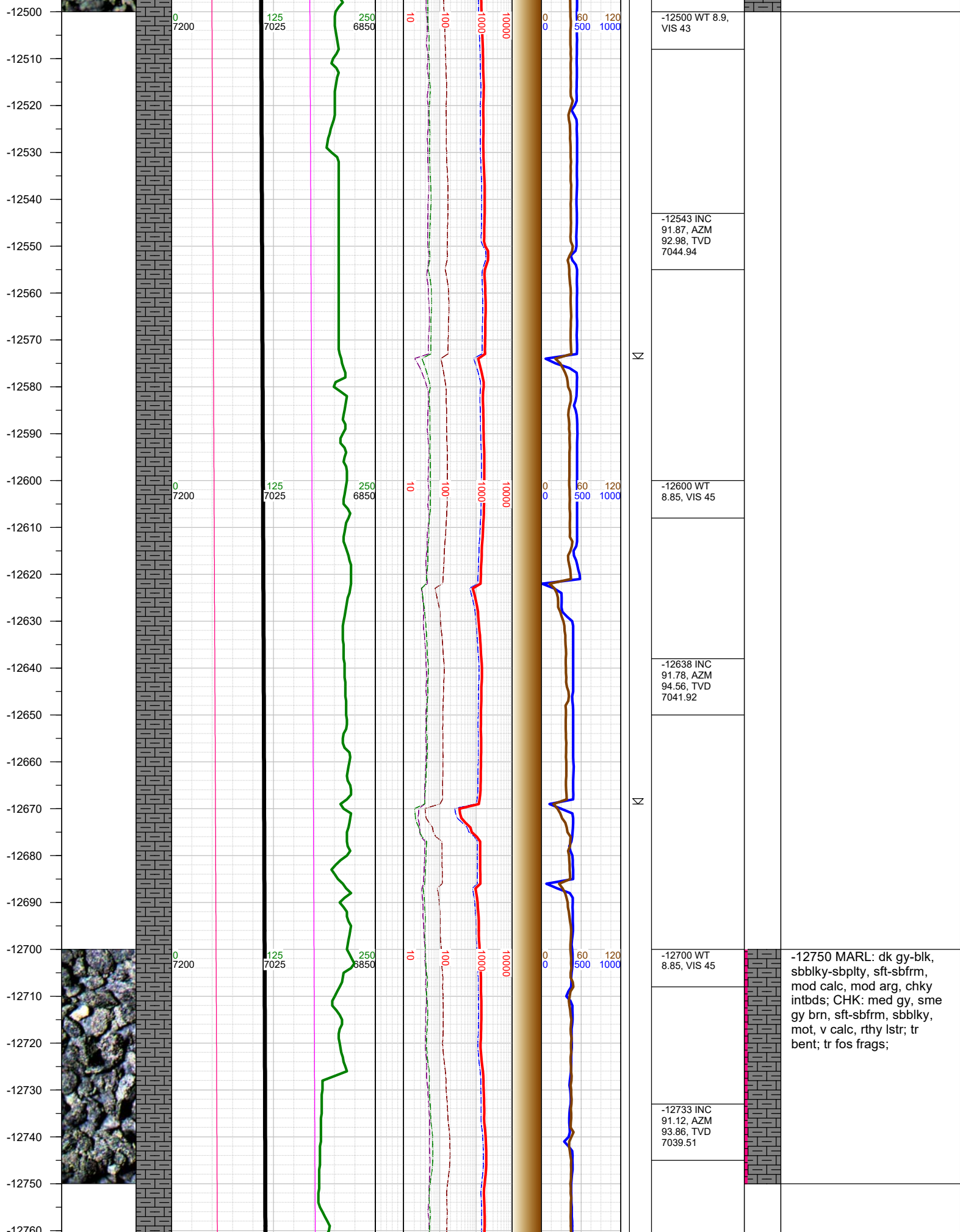
-11610 WT 8.9,
VIS 44

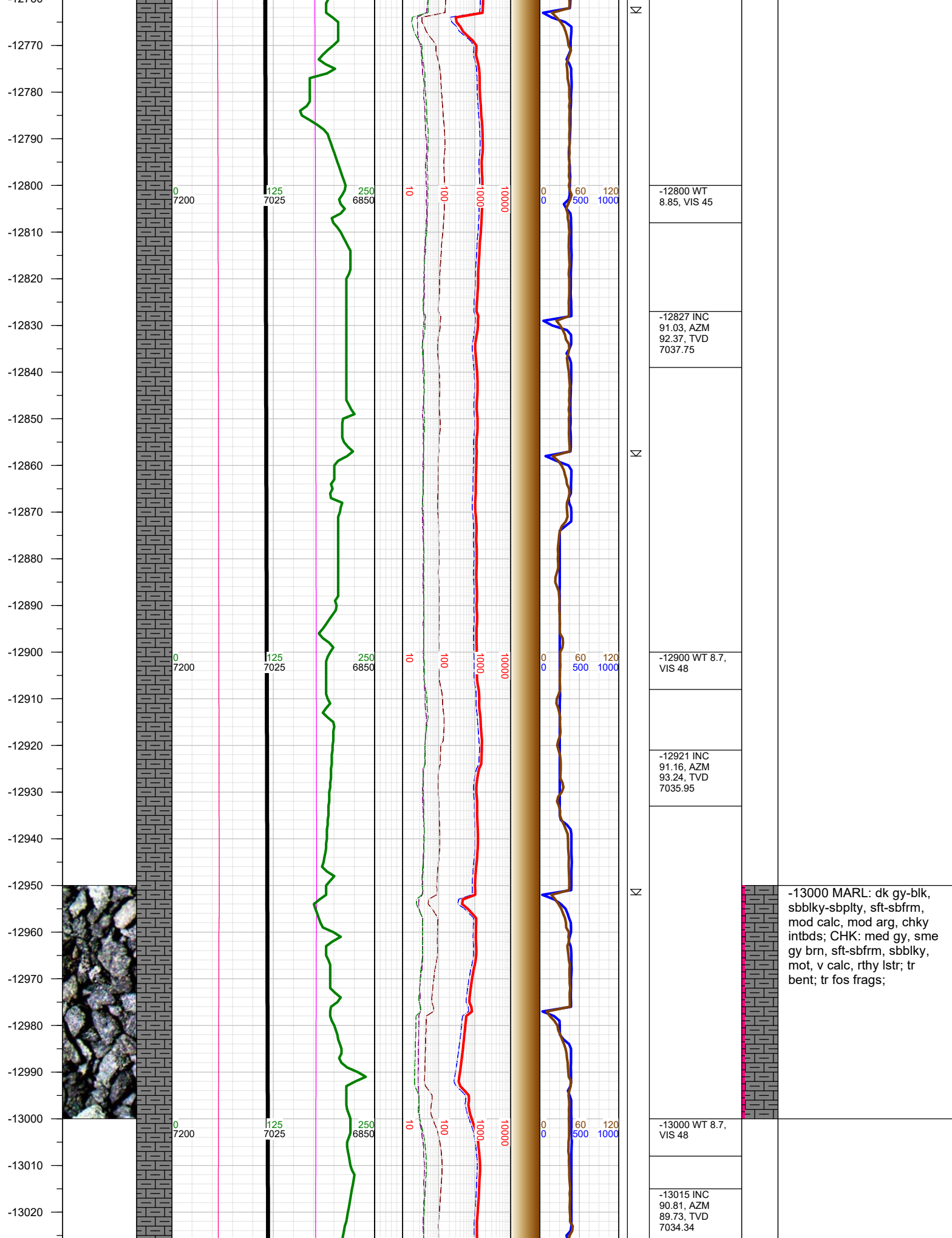
-11690 INC
89.98, AZM
91.75, TVD
7059.21



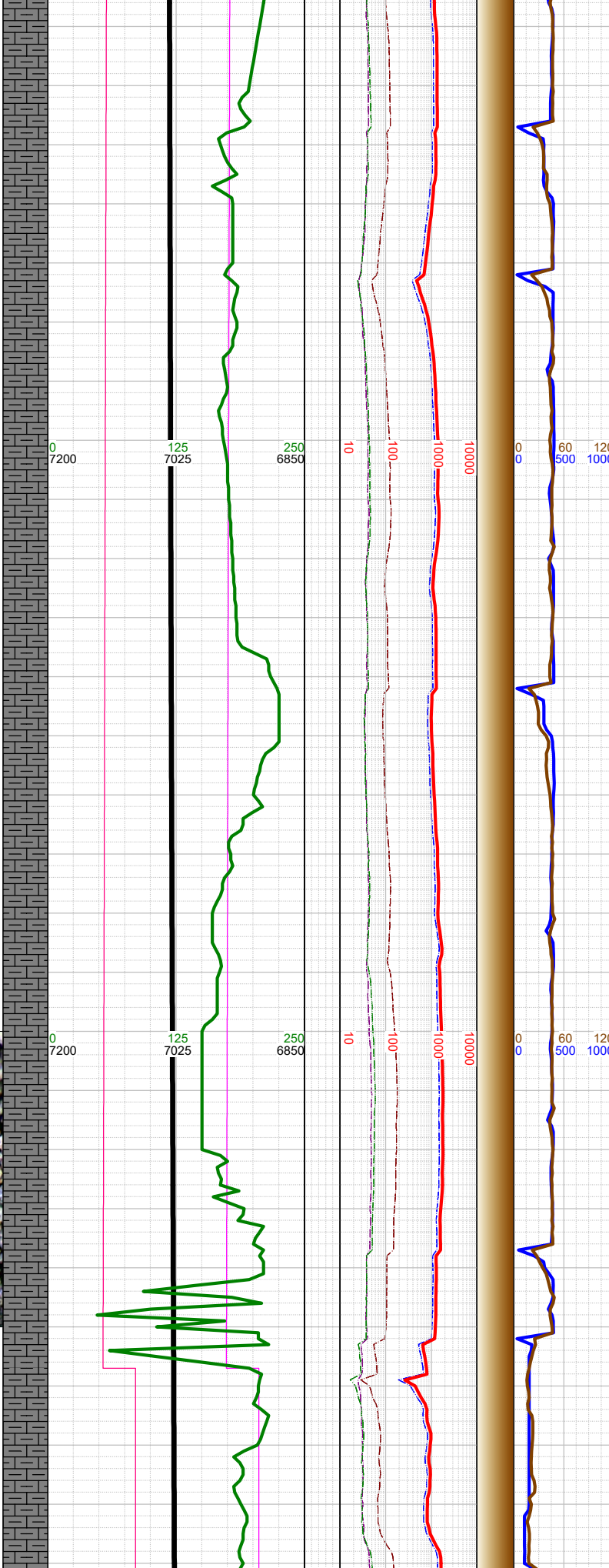
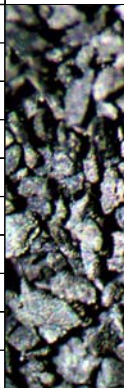




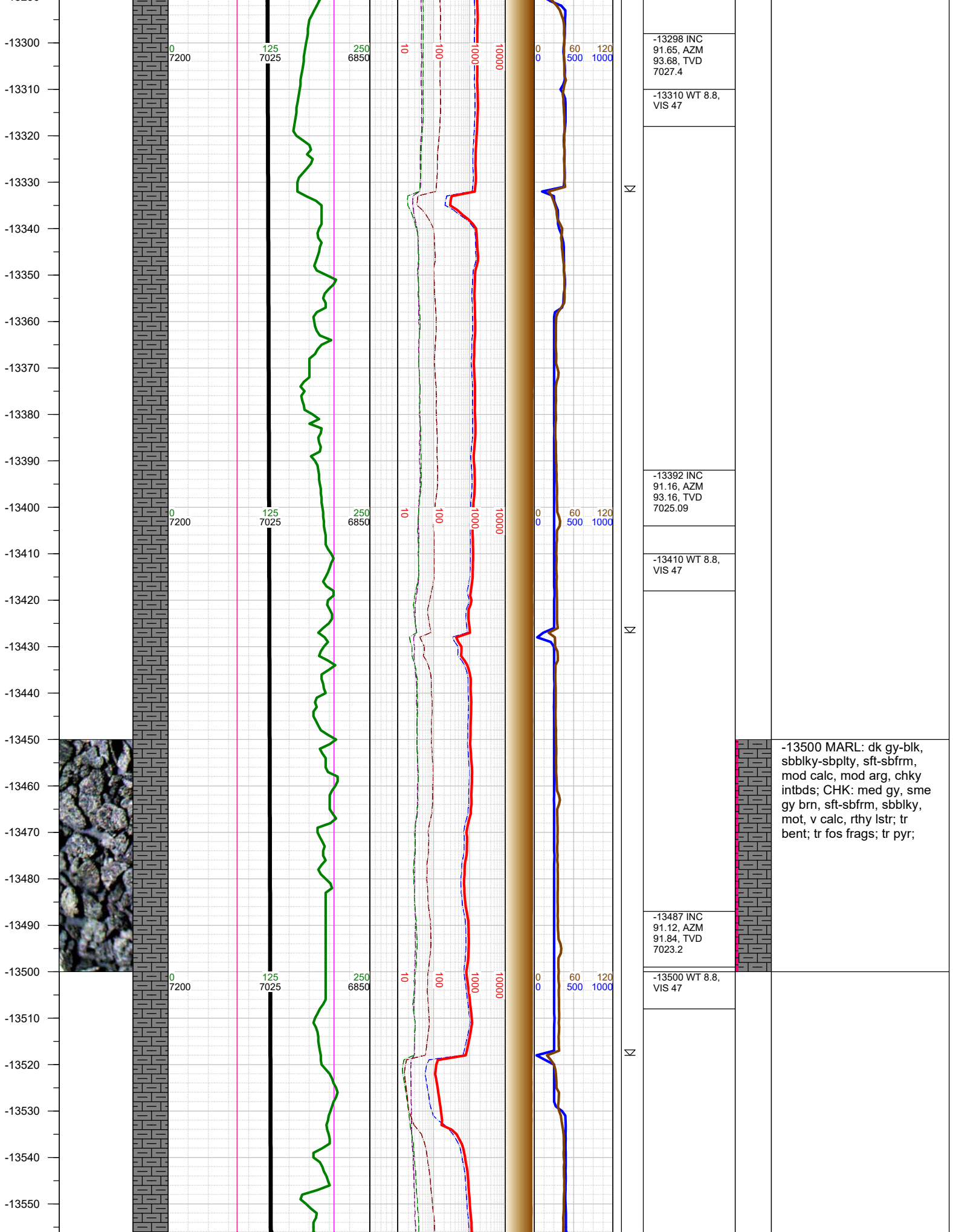




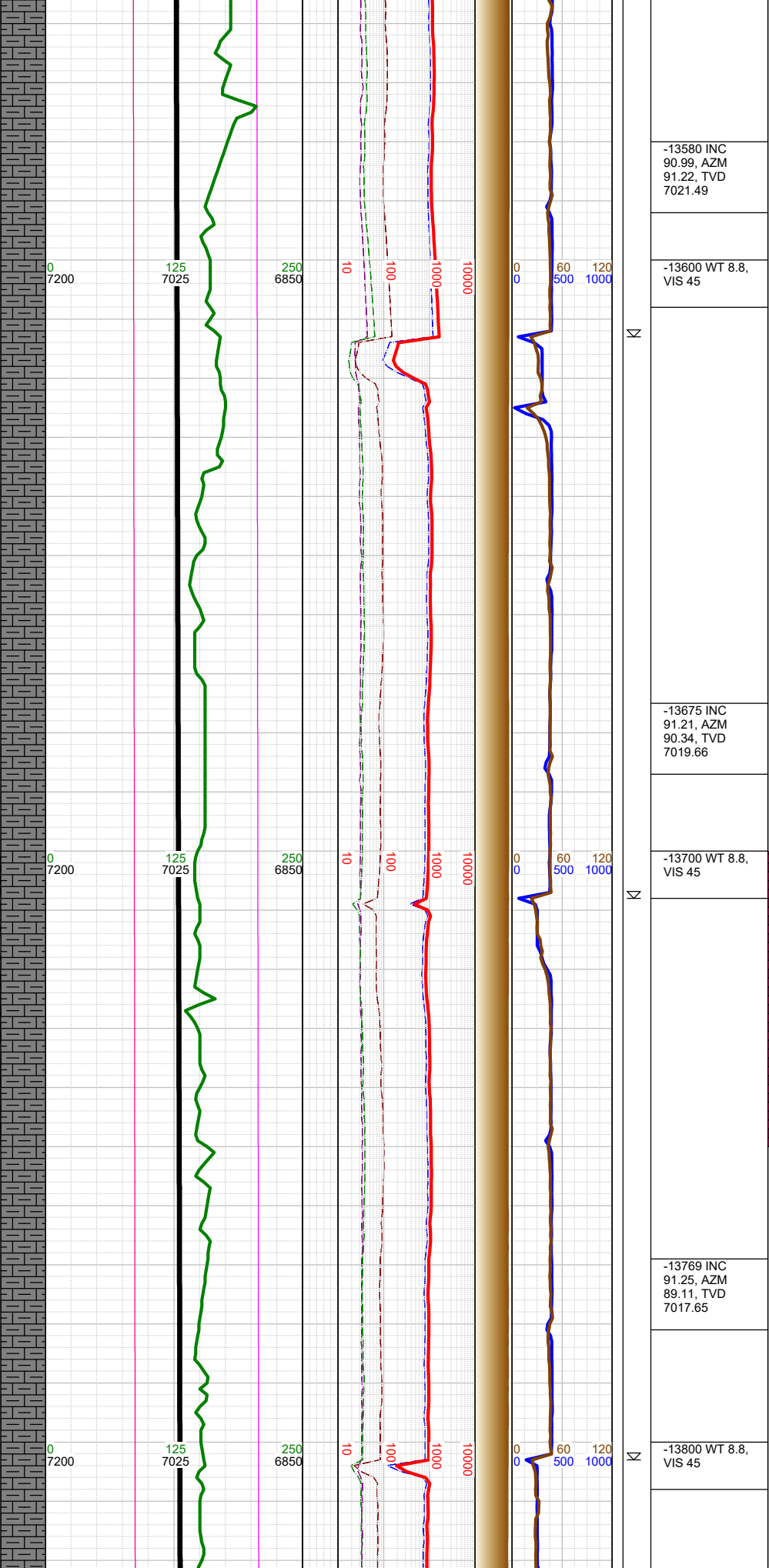
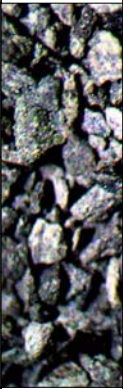
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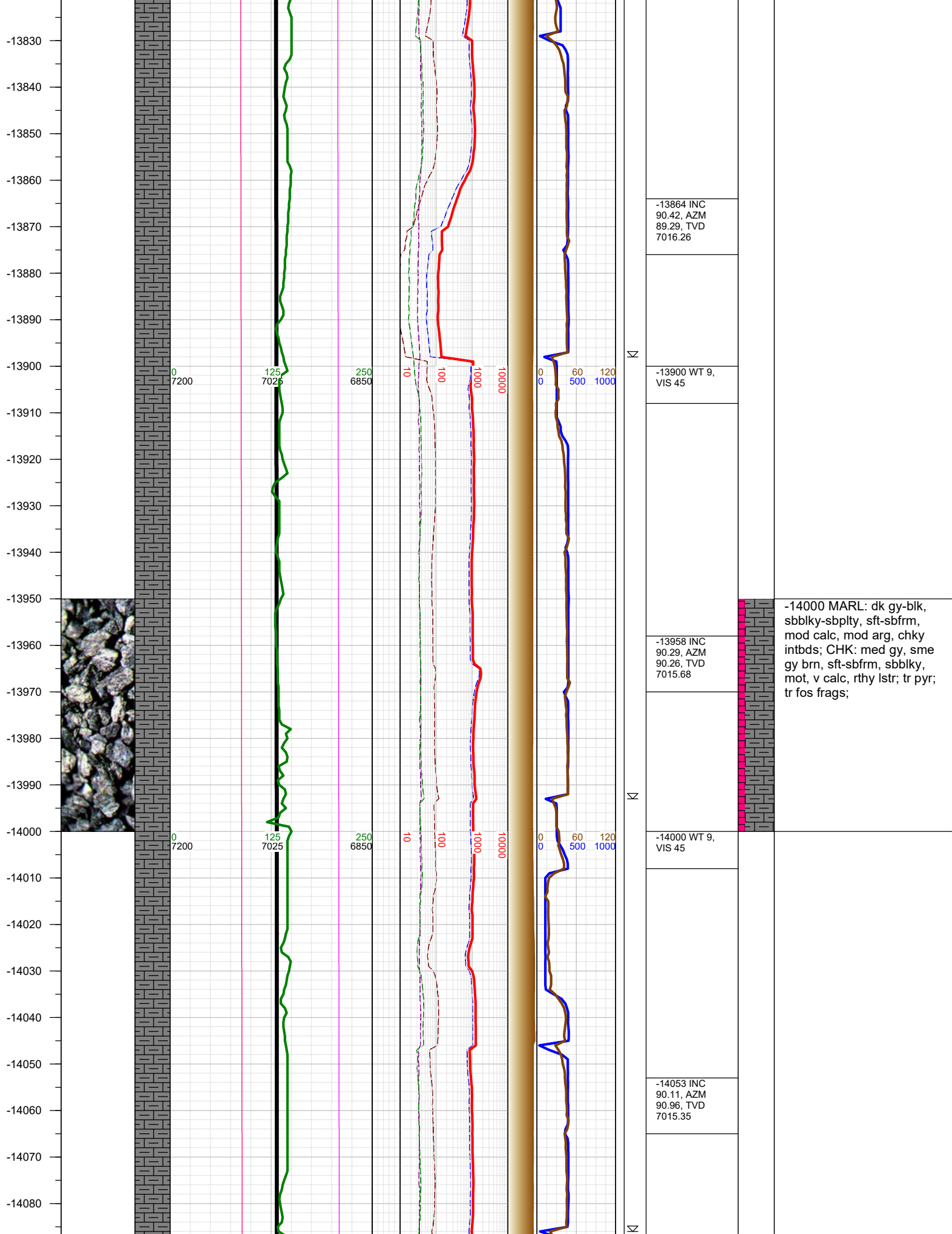
X		-13100 WT 8.8, VIS 46	
		-13110 INC 91.34, AZM 88.15, TVD 7032.56	
X			
X		-13204 INC 91.65, AZM 90.87, TVD 7030.1	-13250 MARL: dk gy-blk, sbbly-sbplty, sft-sbfrm, mod calc, mod arg, chky intbds; CHK: med gy, sme gy brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr bent; tr fos frags; tr pyr;
		-13220 WT 8.8, VIS 46	
X			
▨		-13257 Fault: 43' up-throw: went from A Marl to B1 Marl	

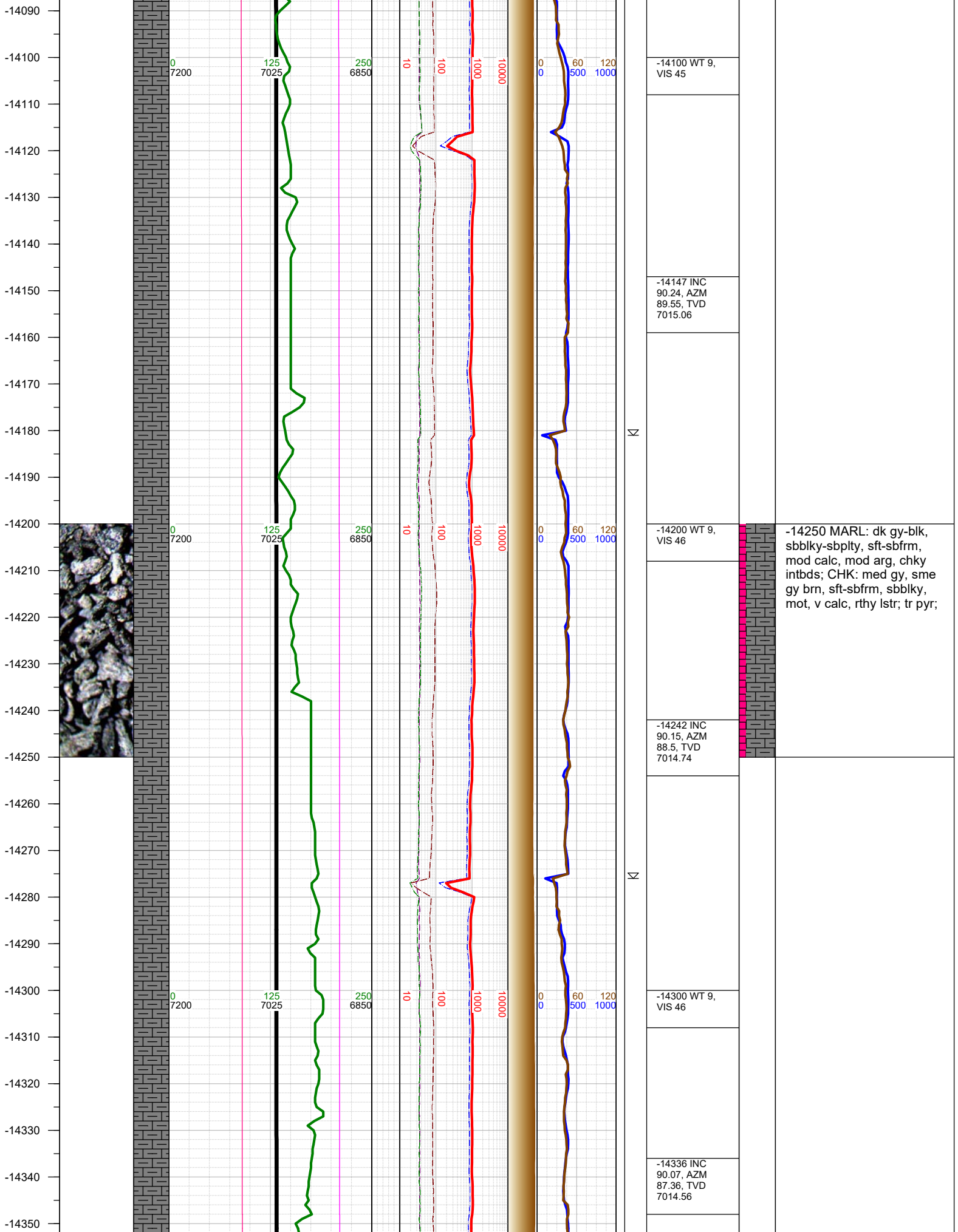


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	-13580 INC 90.99, AZM 91.22, TVD 7021.49	
	-13600 WT 8.8, VIS 45	
	-13675 INC 91.21, AZM 90.34, TVD 7019.66	
	-13700 WT 8.8, VIS 45	-13750 MARL: dk gy-blk, sbbiky-sbply, sft-sbfrm, mod calc, mod arg, chky intbds; CHK: med gy, sme gy brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; tr bent; tr pyr;
	-13769 INC 91.25, AZM 89.11, TVD 7017.65	
	-13800 WT 8.8, VIS 45	





-14100 WT 9,
VIS 45

-14147 INC
90.24, AZM
89.55, TVD
7015.06

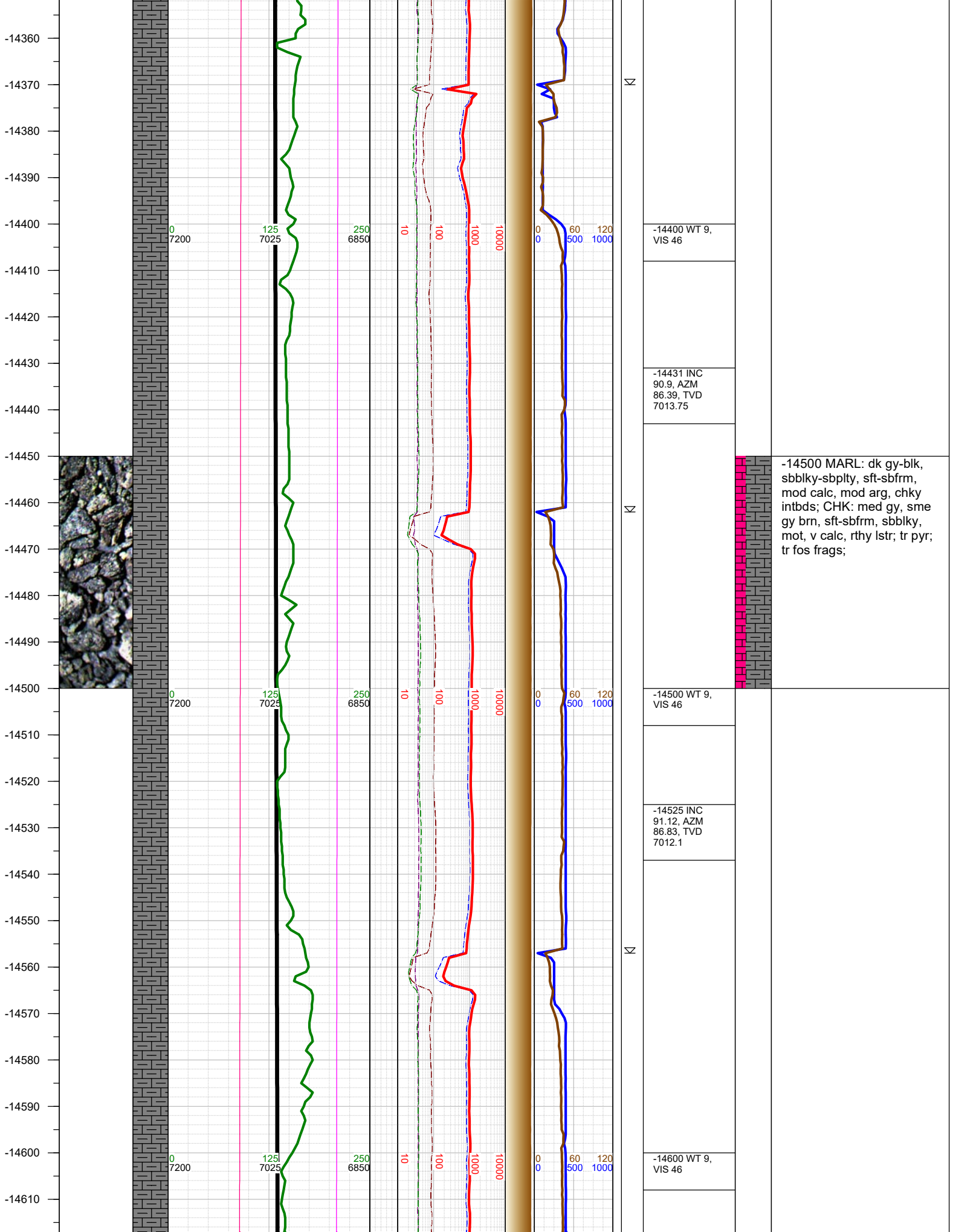
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VIS 46

-14242 INC
90.15, AZM
88.5, TVD
7014.74

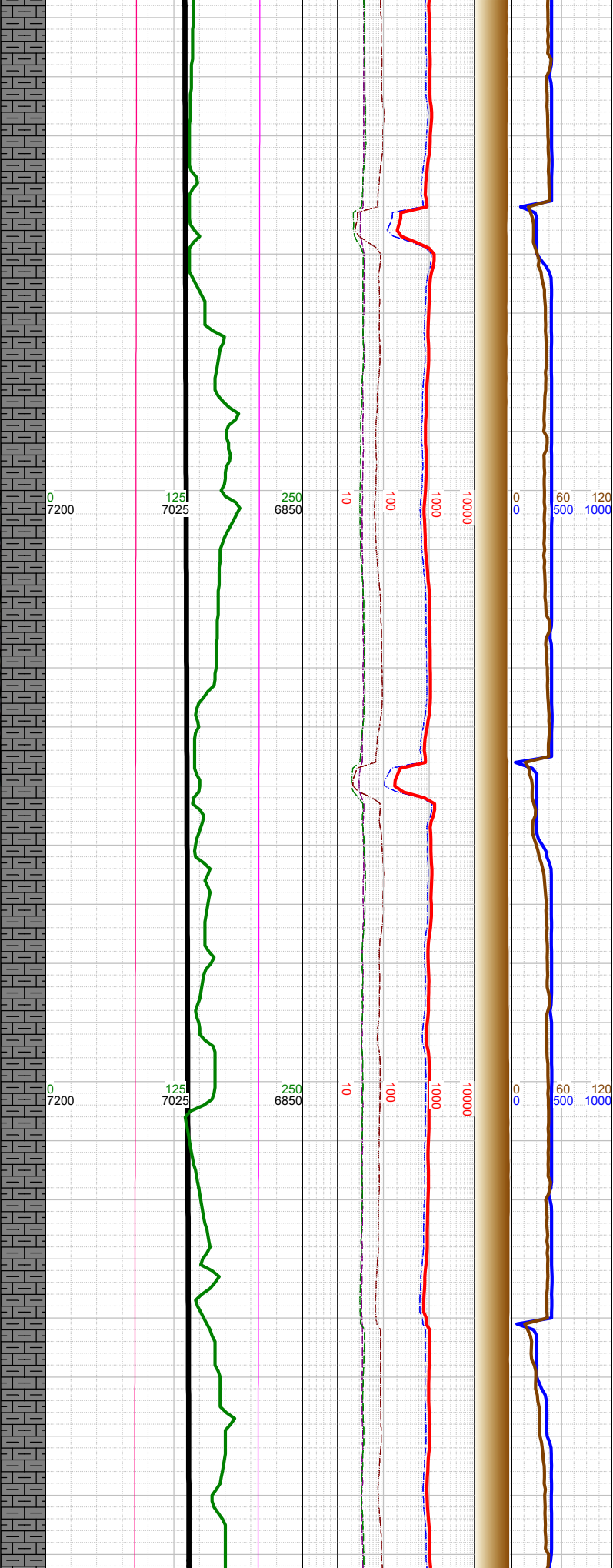
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VIS 46

-14336 INC
90.07, AZM
87.36, TVD
7014.56

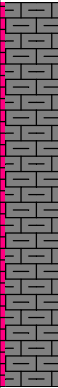
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sbbly-sbply, sft-sbfrm,
mod calc, mod arg, chky
intbds; CHK: med gy, sme
gy brn, sft-sbfrm, sbbly,
mot, v calc, rthy lstr; tr pyr;



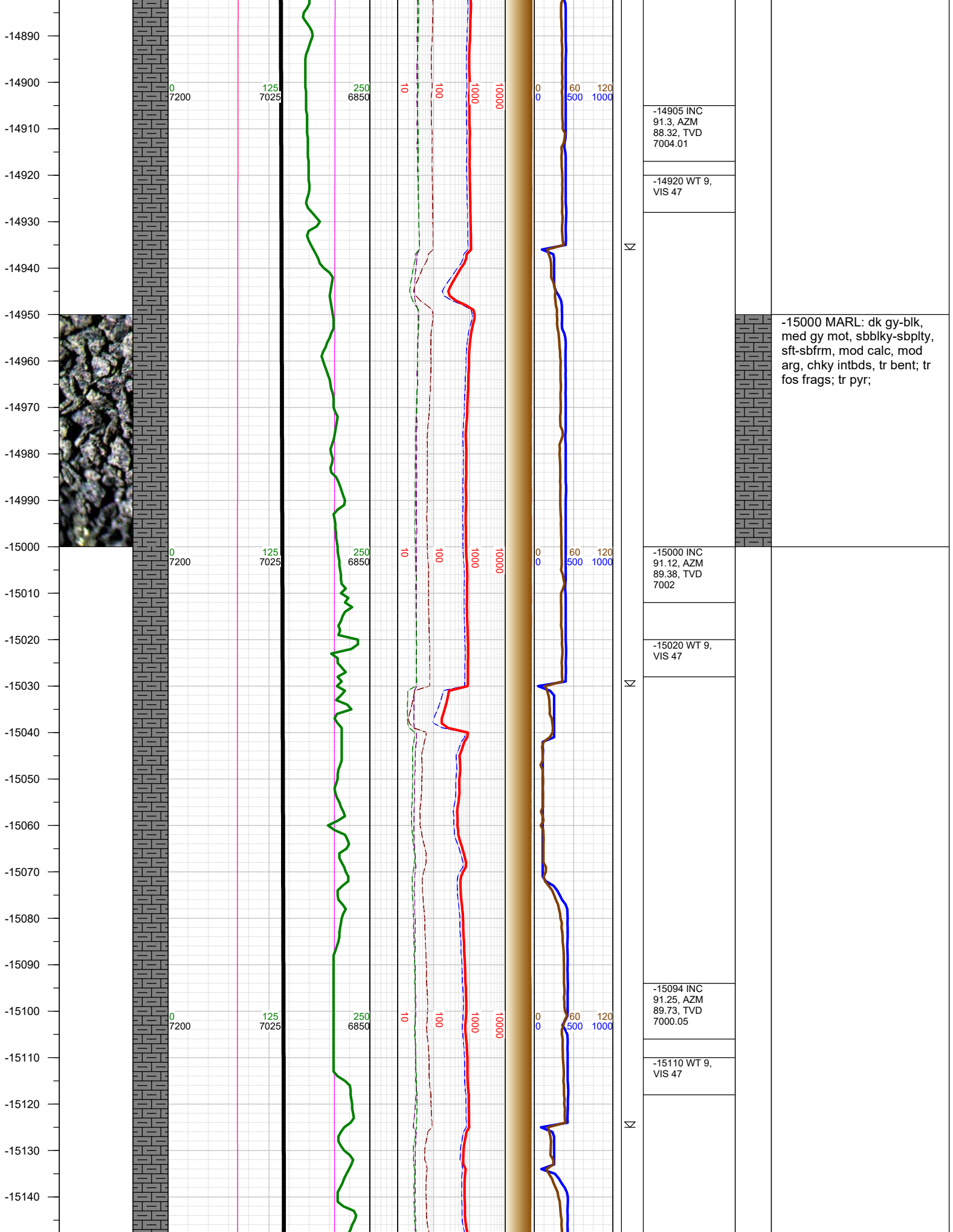
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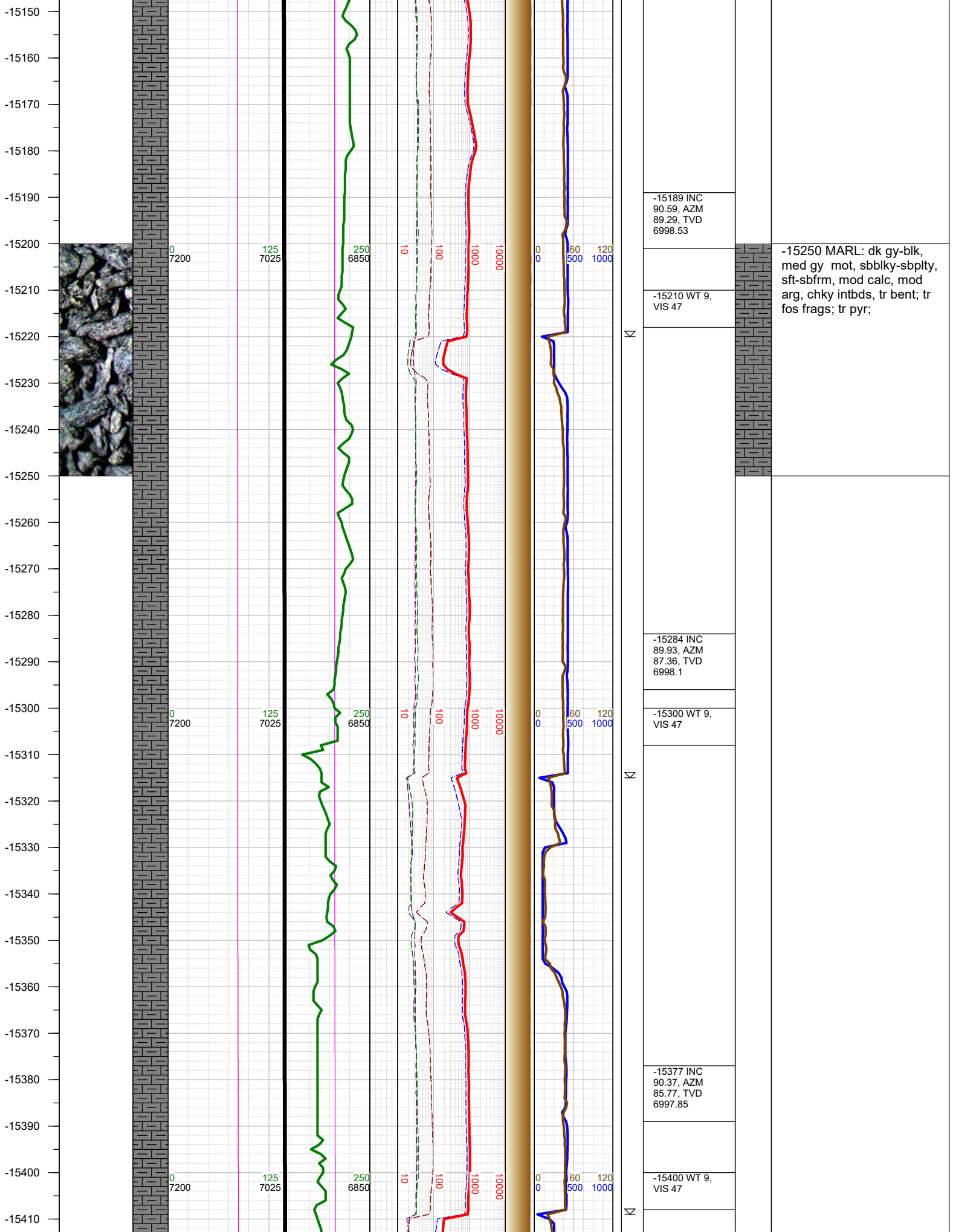


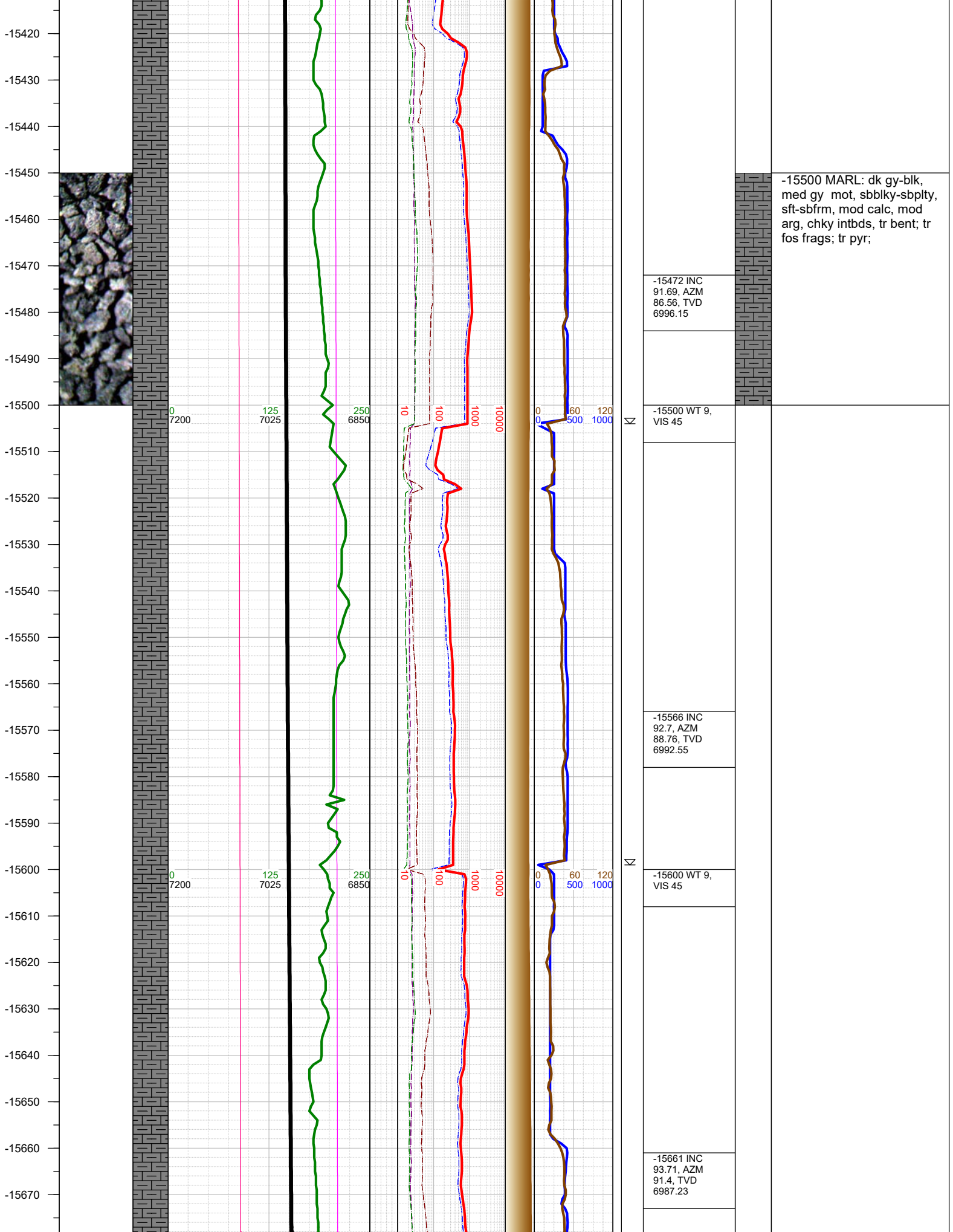
-14620 INC 91.21, AZM 87.09, TVD 7010.16	-14700 WT 9, VIS 47	-14716 INC 91.21, AZM 87.71, TVD 7008.14
-14800 WT 9, VIS 47	-14810 INC 91.25, AZM 87.71, TVD 7006.12	

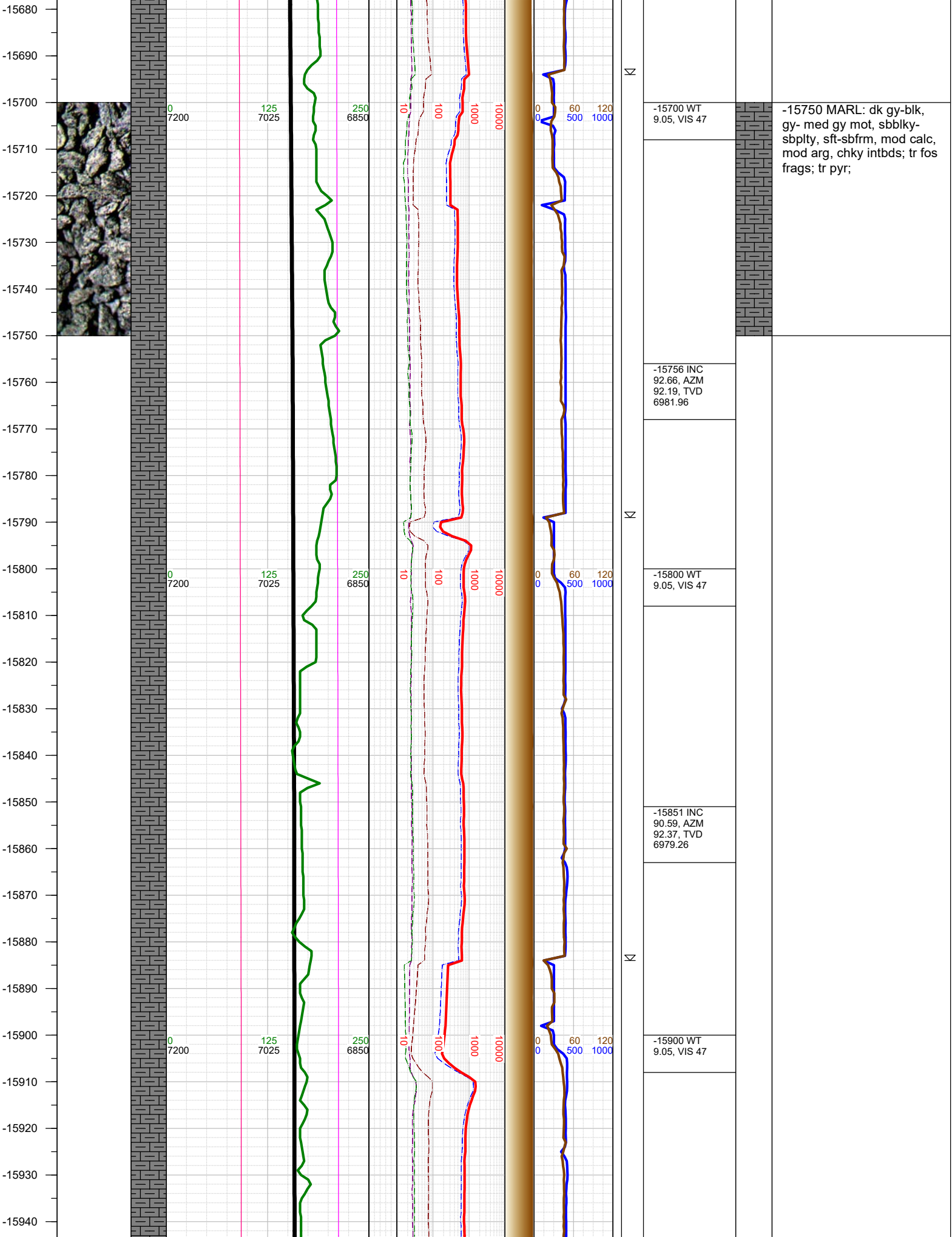


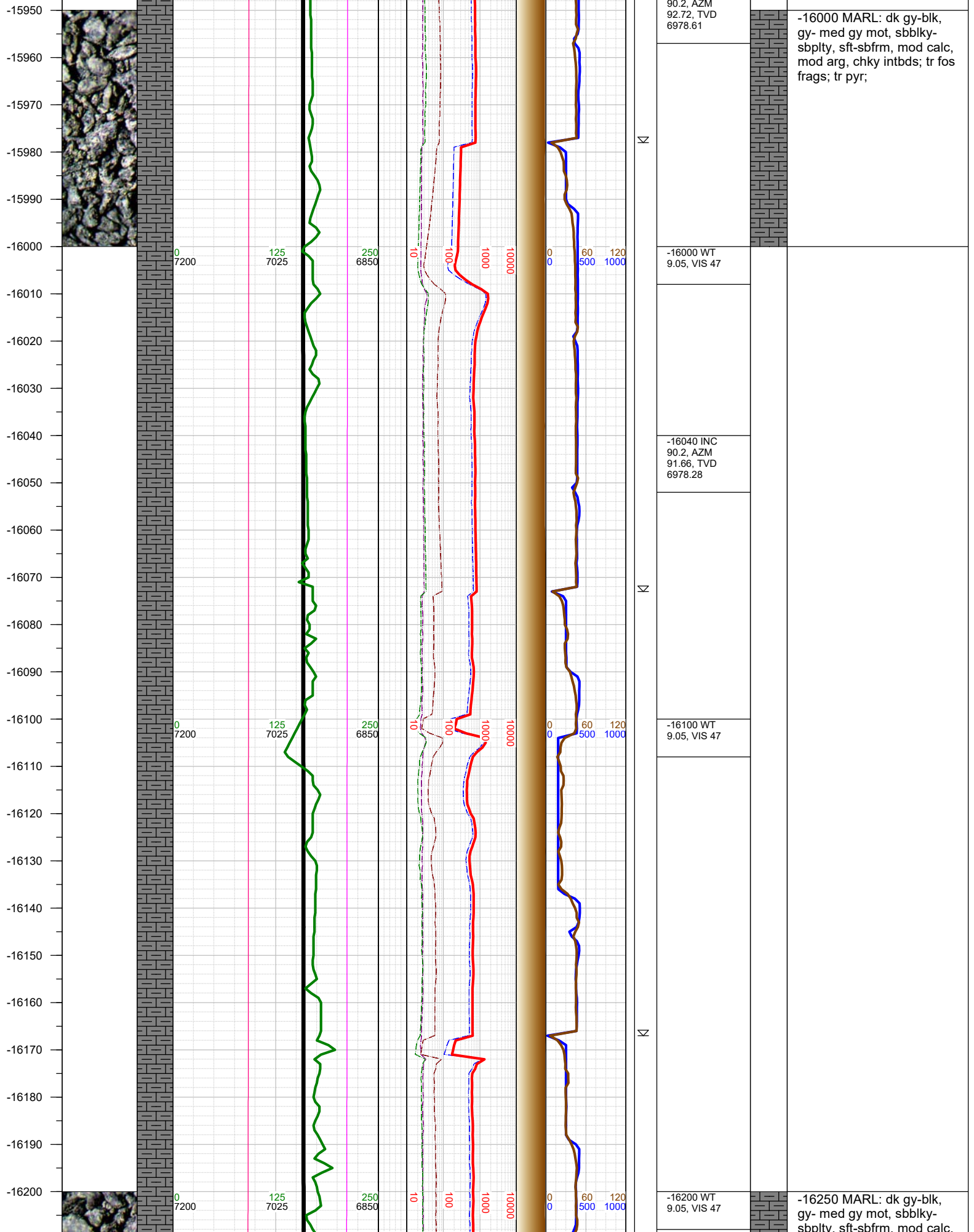
-14750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, mod arg, chky intbds; CHK: med gy, sme gy brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr pyr;

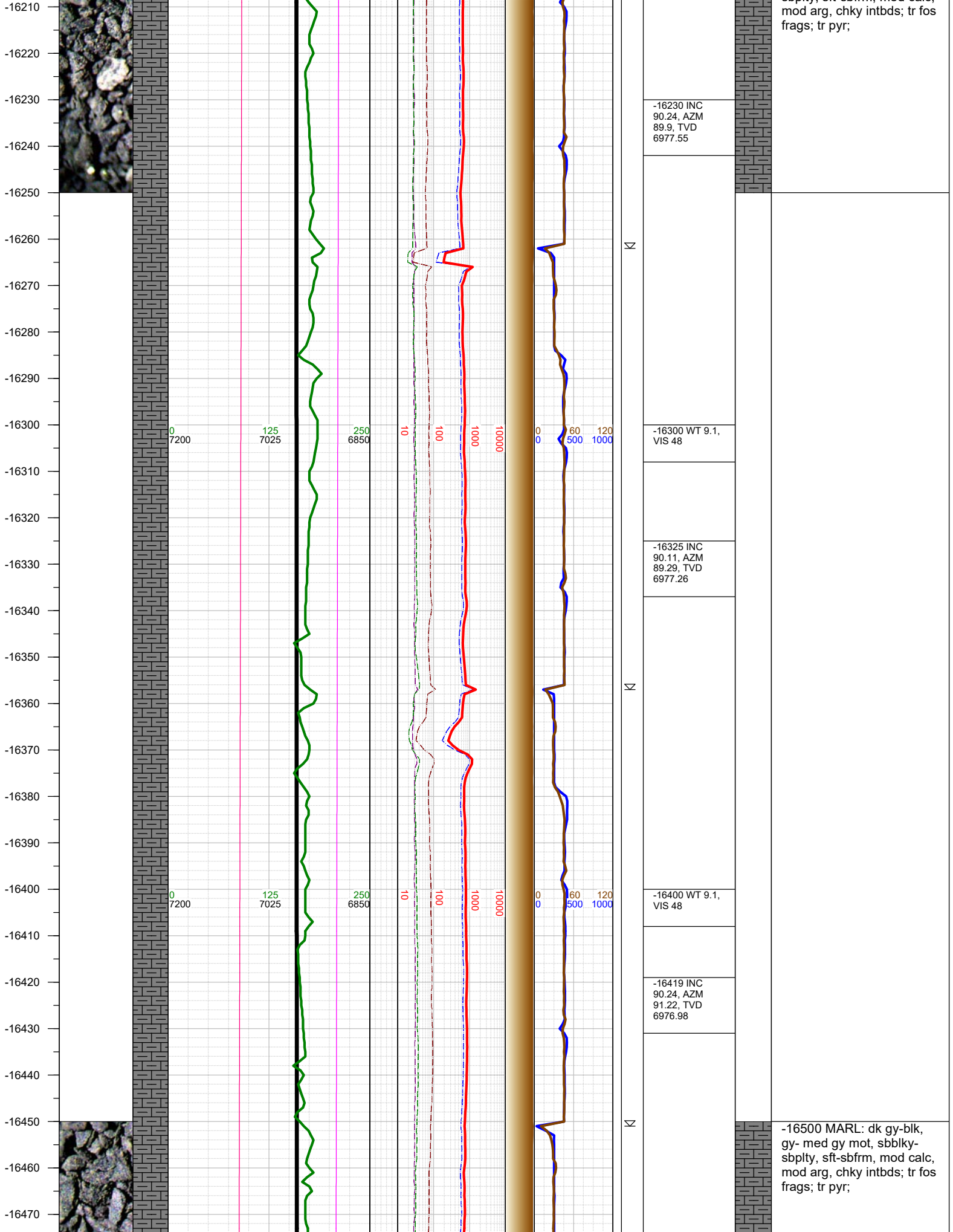


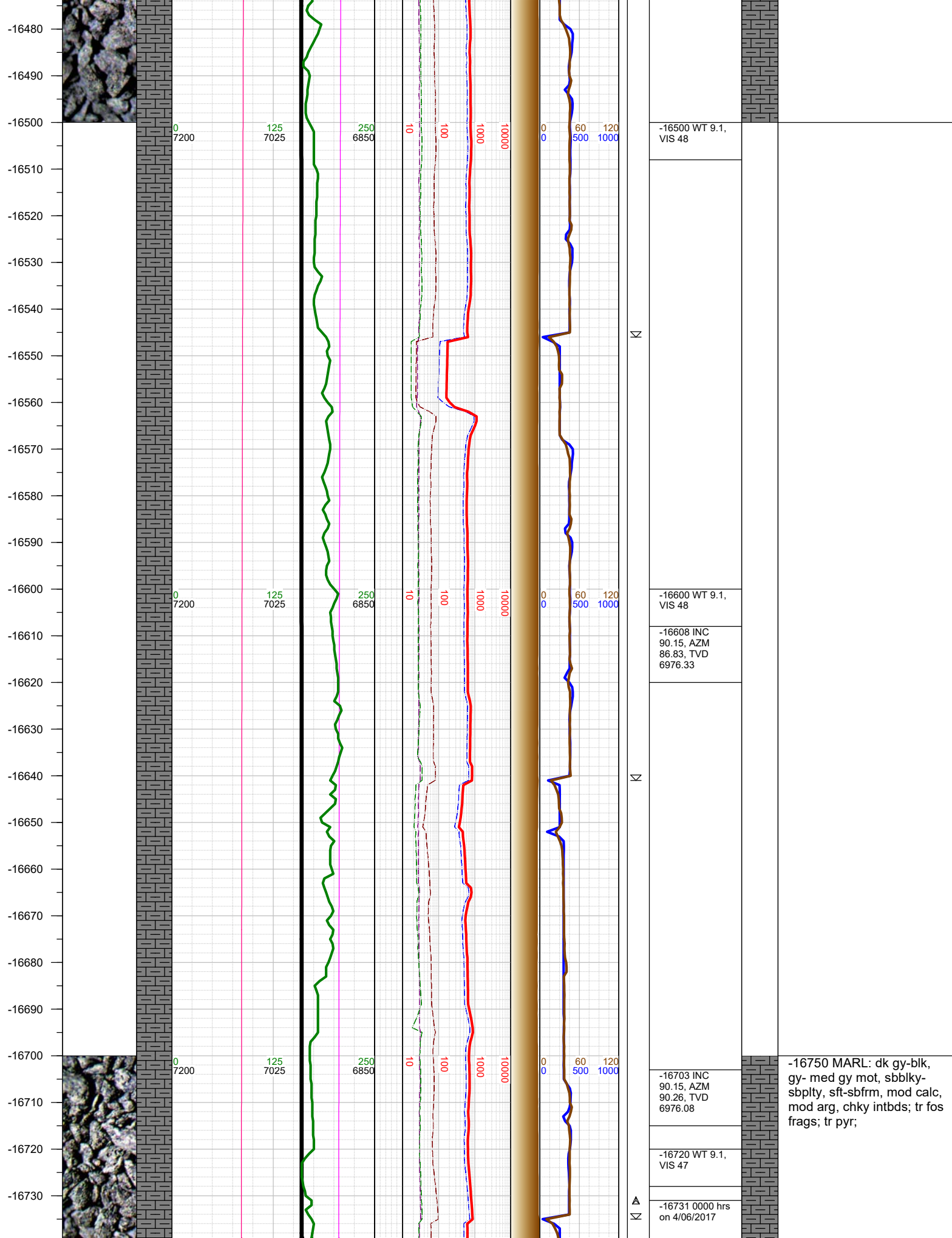


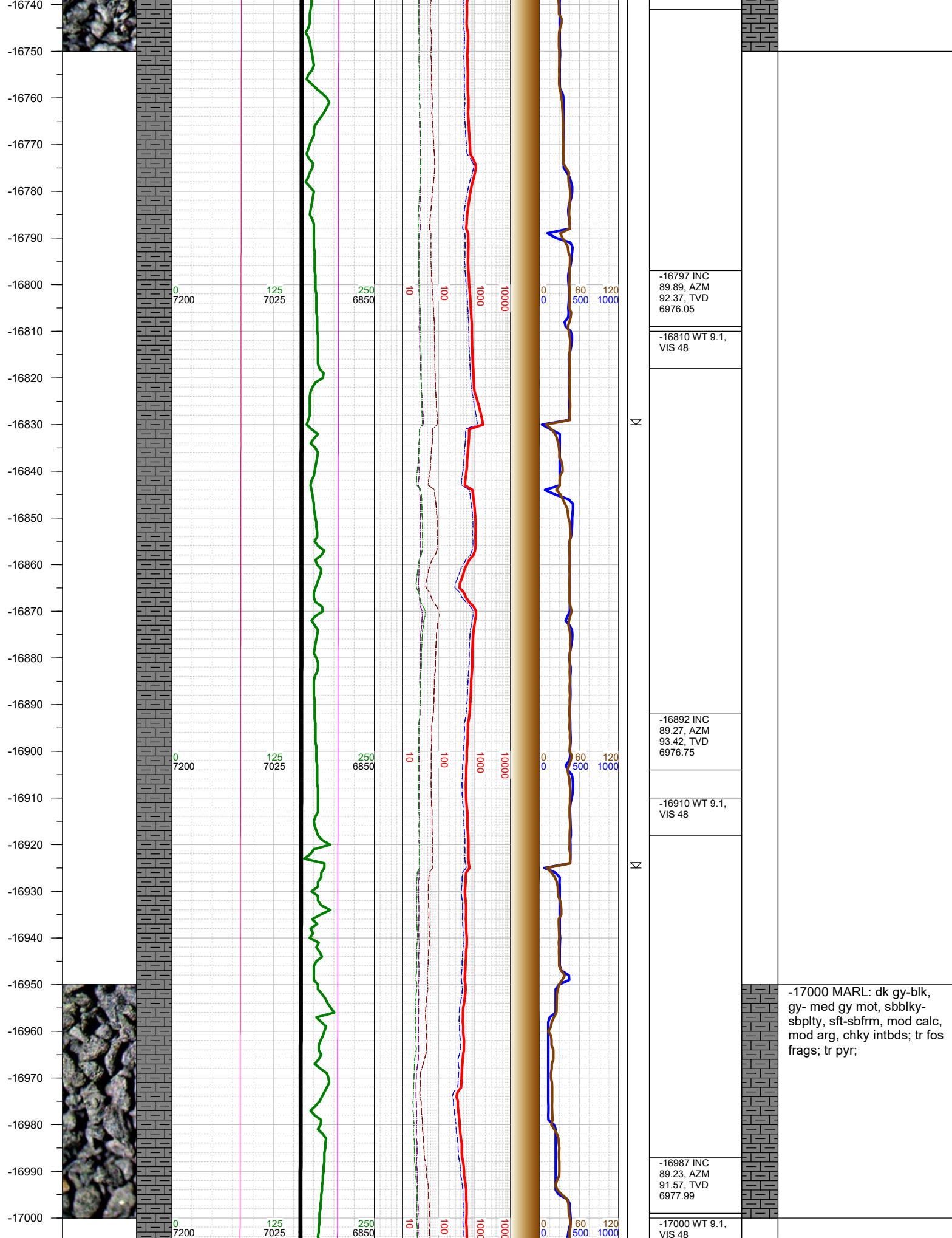




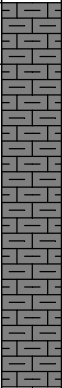
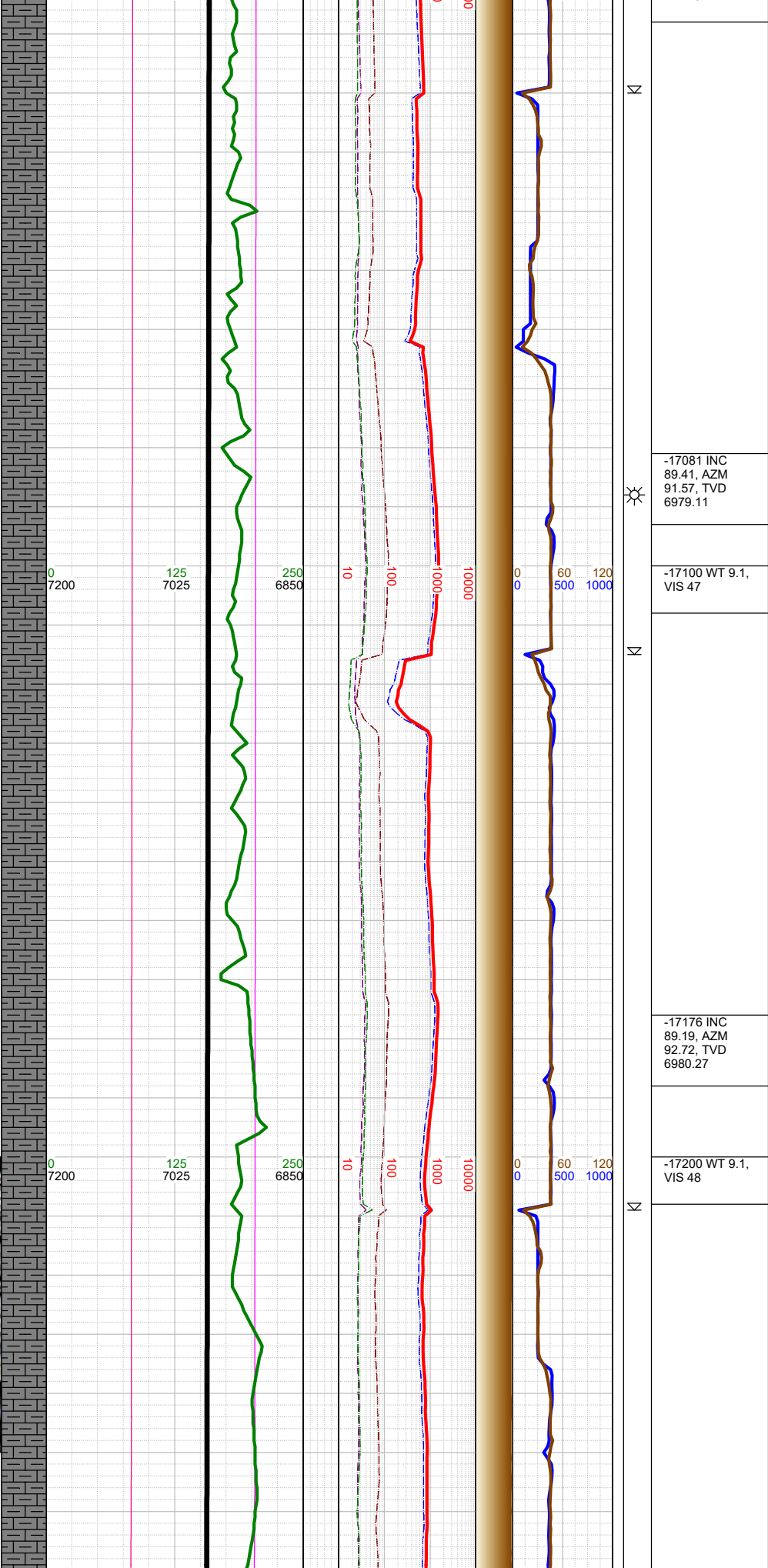
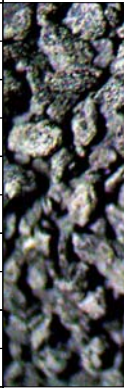






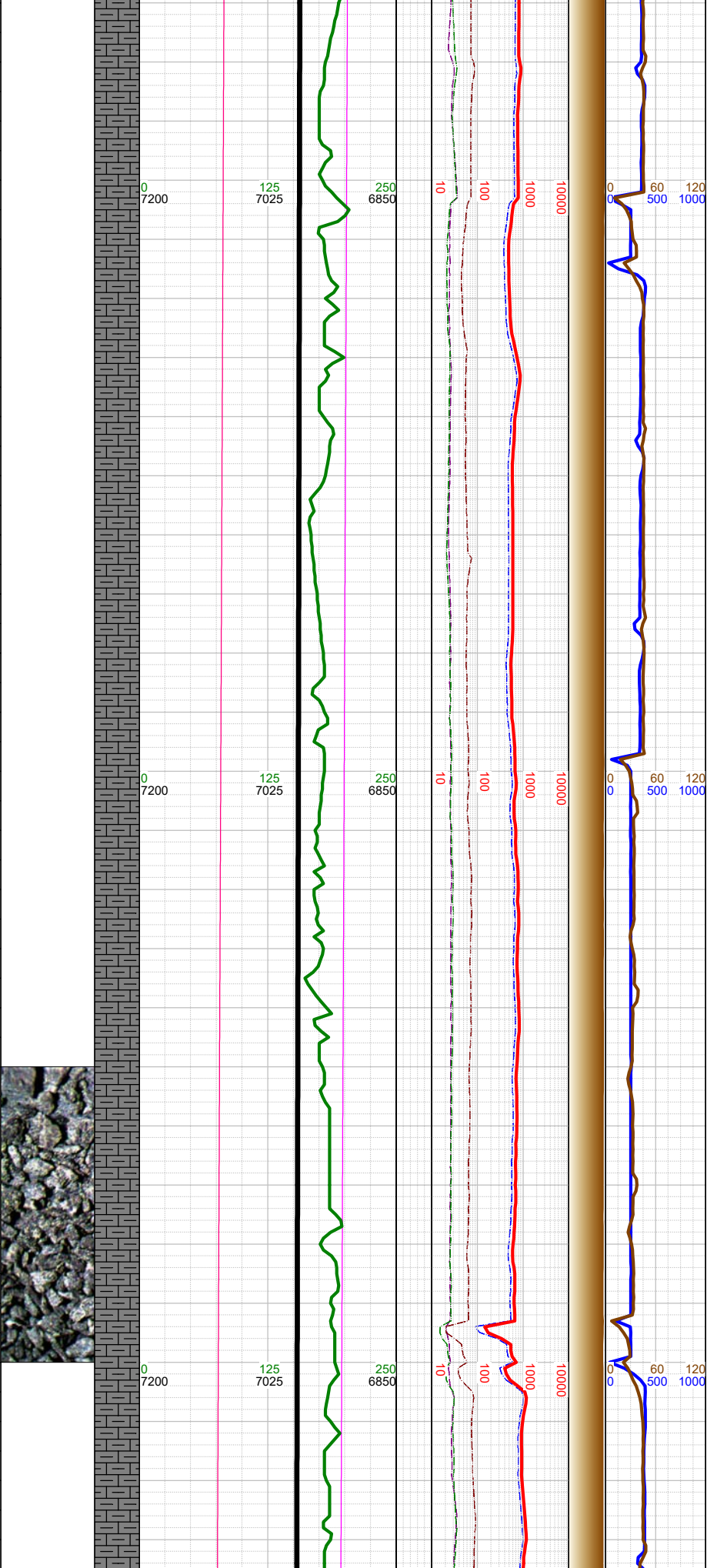


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-17250 MARL: dk gy-blk,
gy- med gy mot, sbblky-
sbply, sft-sbfrm, mod calc,
mod arg, chky intbds; tr fos
frags; tr pyr;

-17270
-17280
-17290
-17300
-17310
-17320
-17330
-17340
-17350
-17360
-17370
-17380
-17390
-17400
-17410
-17420
-17430
-17440
-17450
-17460
-17470
-17480
-17490
-17500
-17510
-17520
-17530



-17270 INC
89.27, AZM
92.8, TVD
6981.53

-17300 WT 9.1,
VIS 48

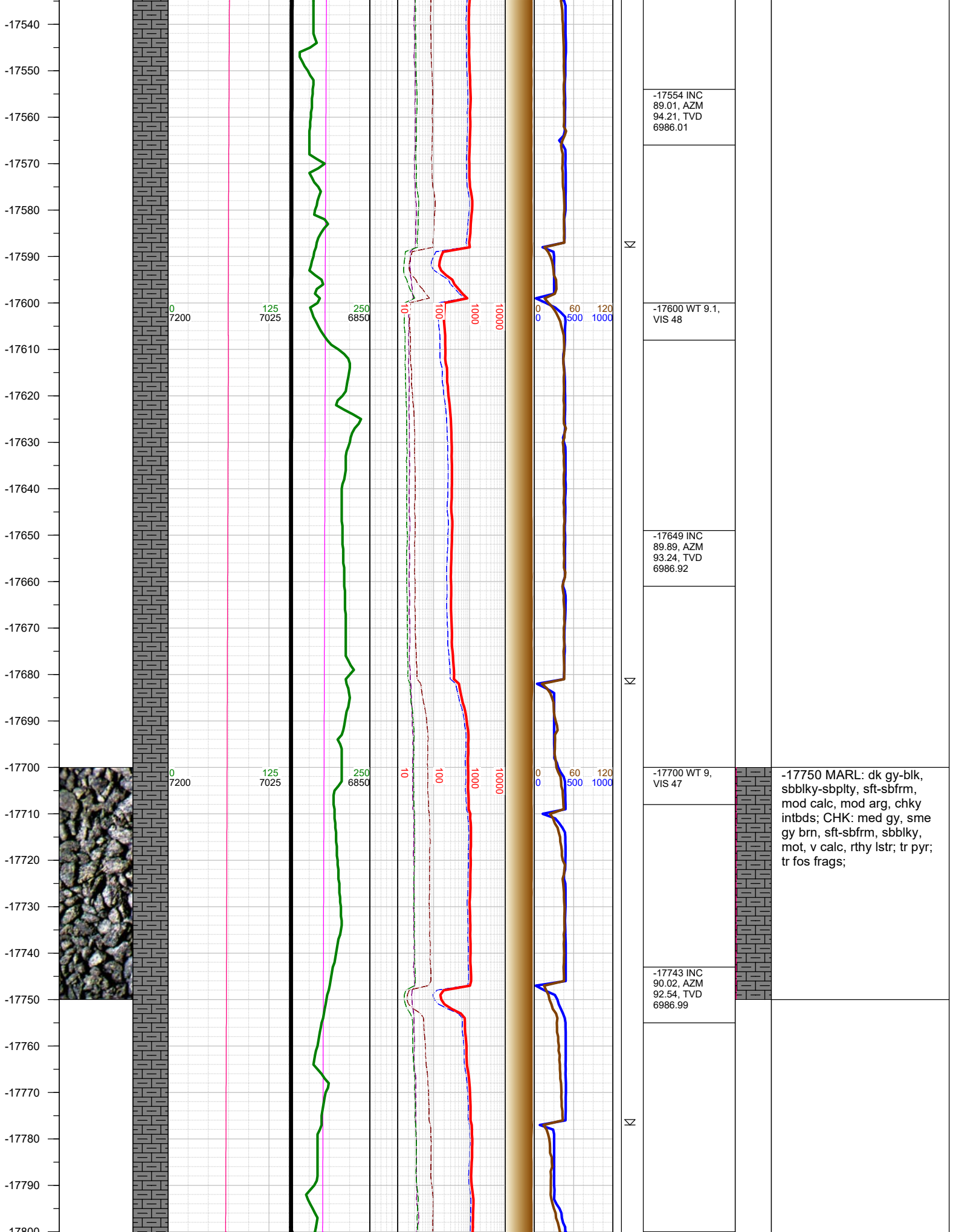
-17365 INC
89.05, AZM
93.51, TVD
6982.92

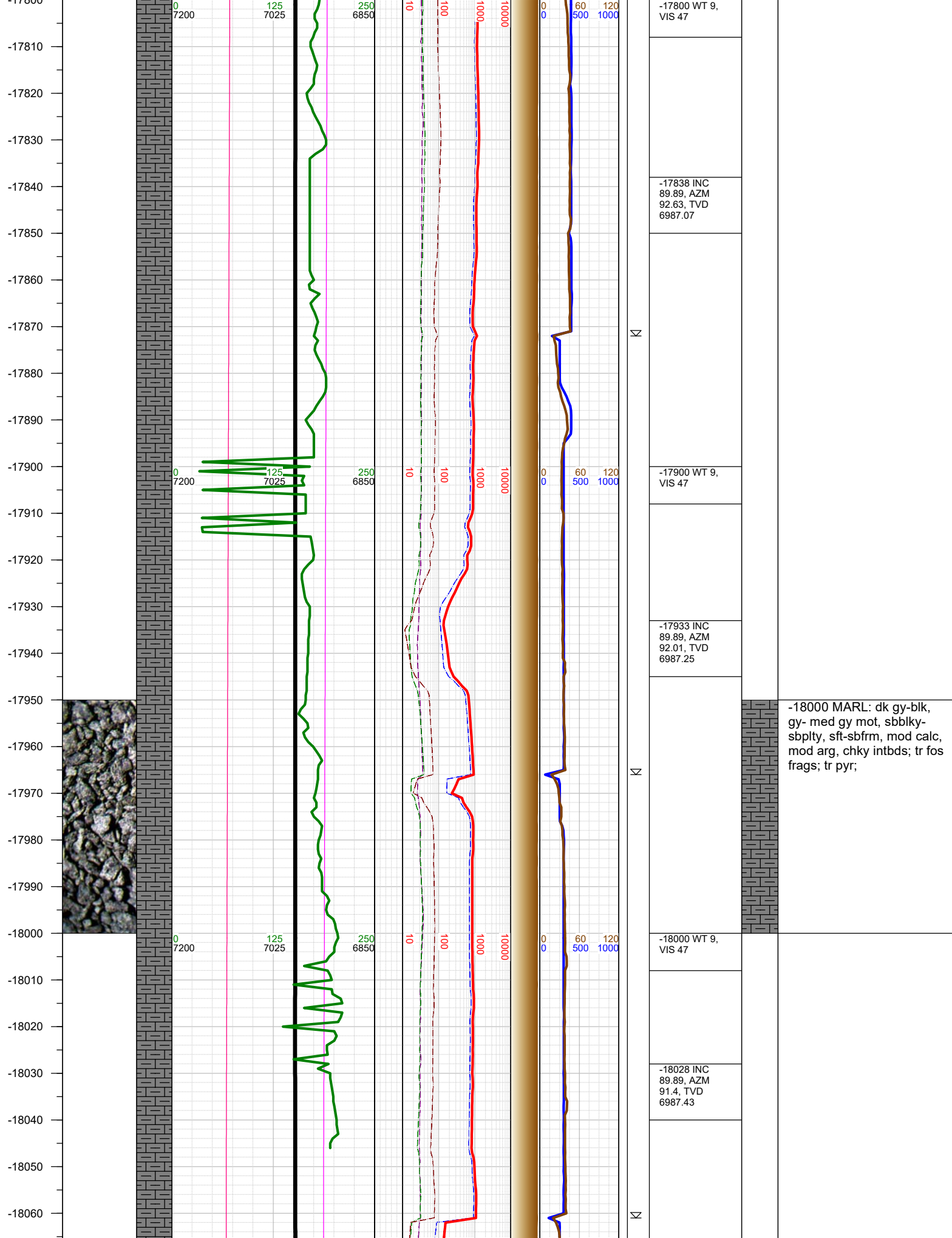
-17400 WT 9.1,
VIS 48

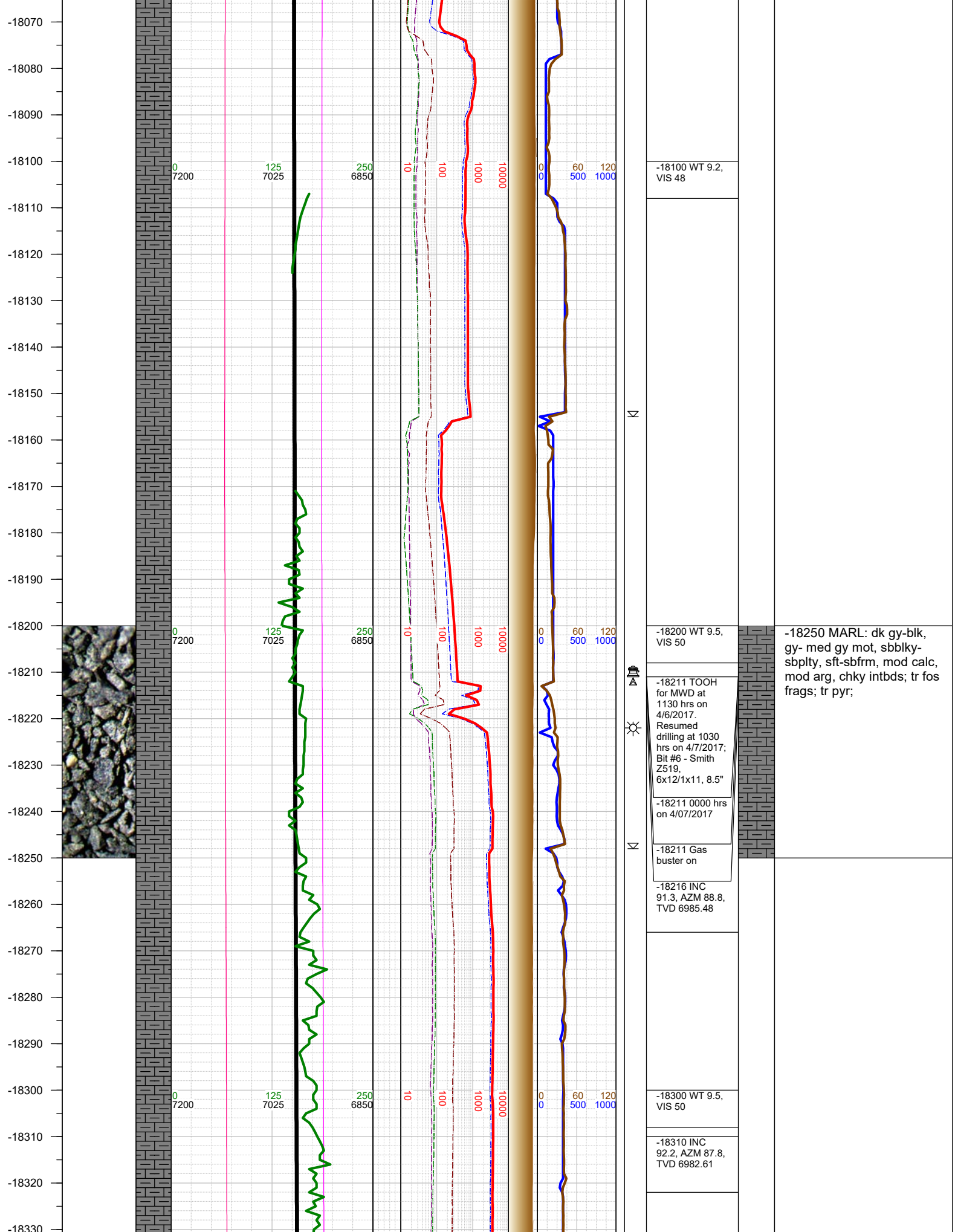
-17459 INC
89.1, AZM
94.65, TVD
6984.44

-17500 WT 9.1,
VIS 48

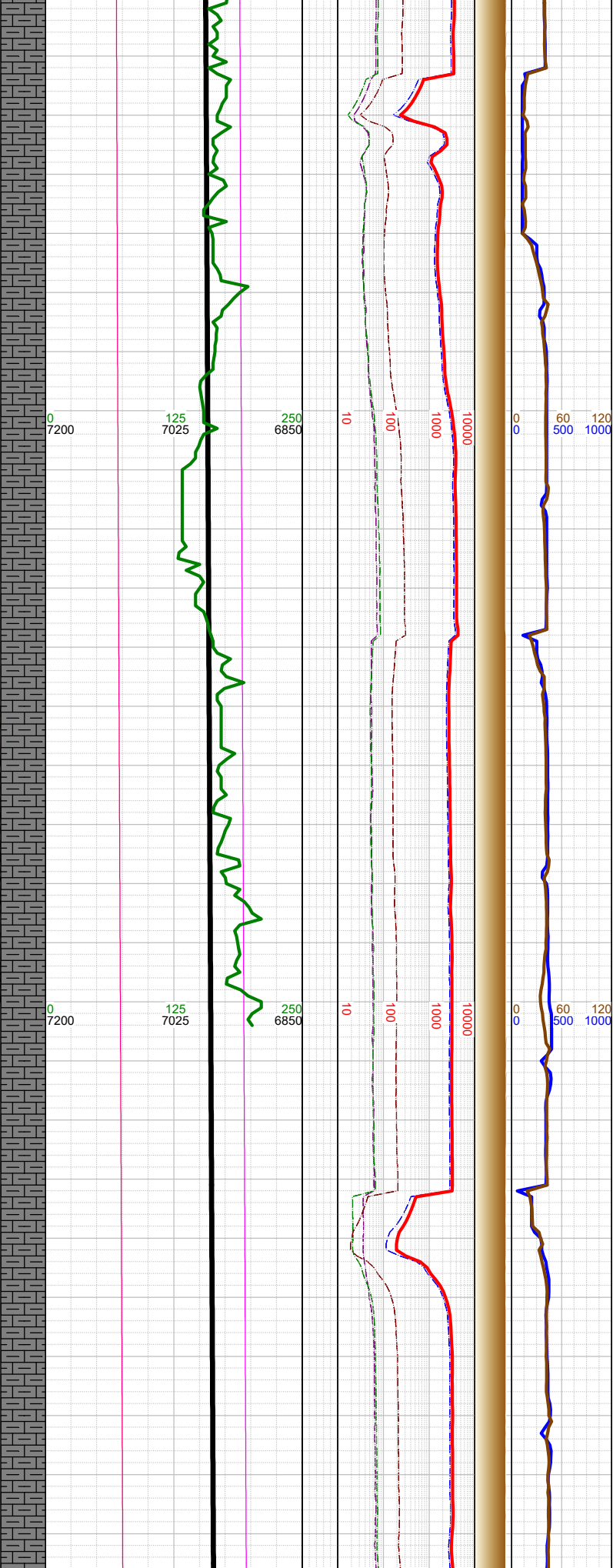
-17500 MARL: dk gy-blk,
gy- med gy mot, sbblky-
sbplty, sft-sbfrm, mod calc,
mod arg, chky intbds; tr fos
frags; tr pyr;



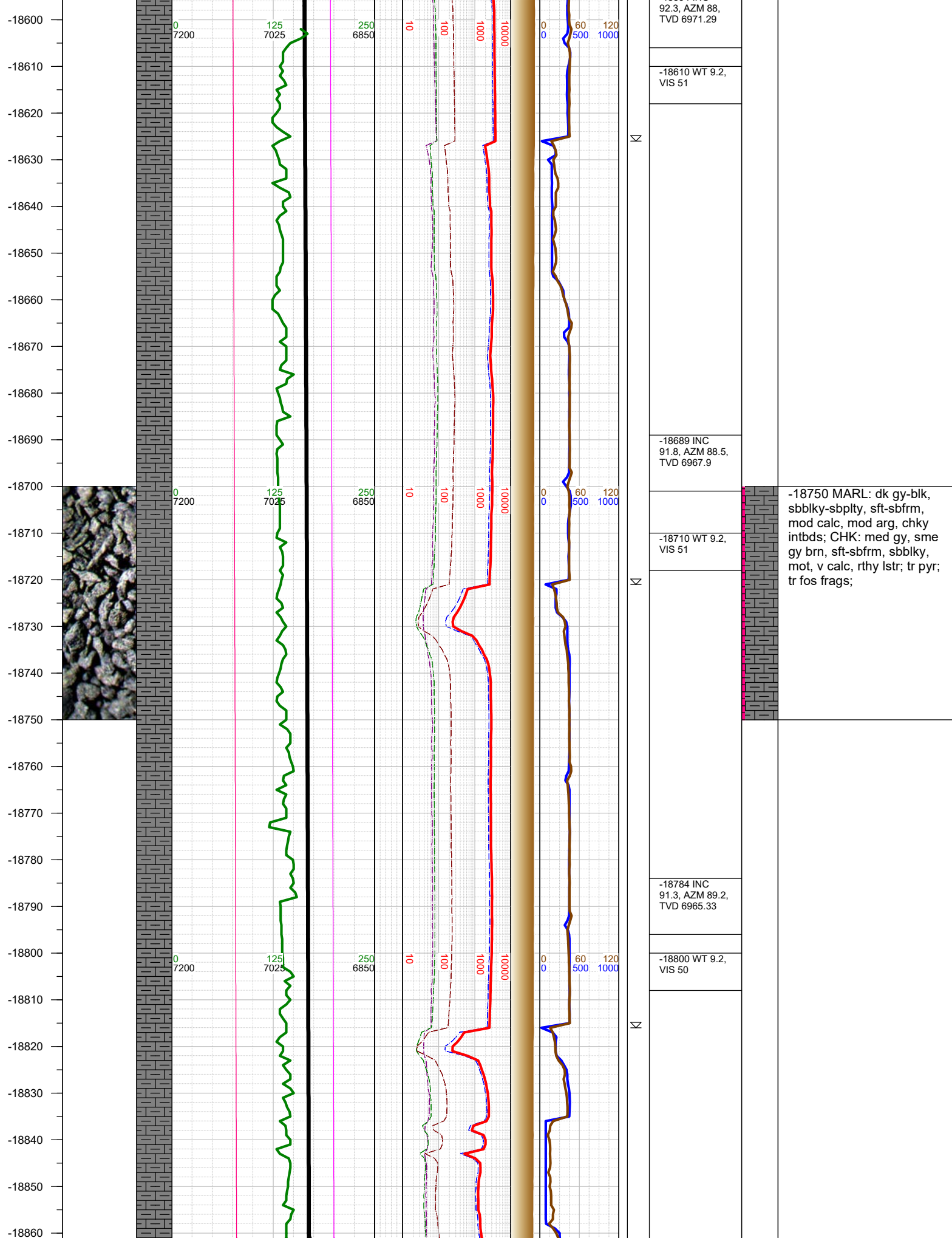


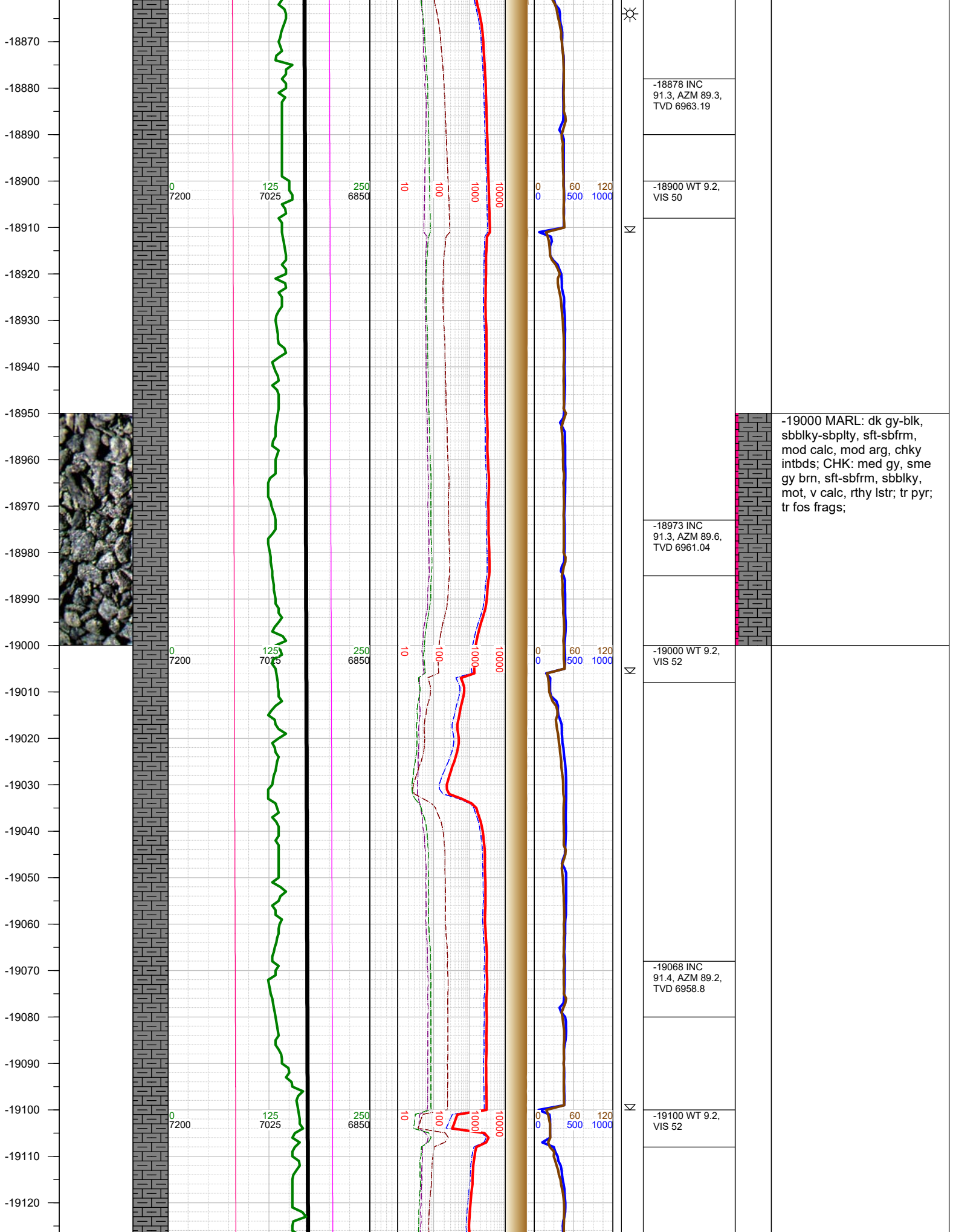


-18340
-18350
-18360
-18370
-18380
-18390
-18400
-18410
-18420
-18430
-18440
-18450
-18460
-18470
-18480
-18490
-18500
-18510
-18520
-18530
-18540
-18550
-18560
-18570
-18580
-18590

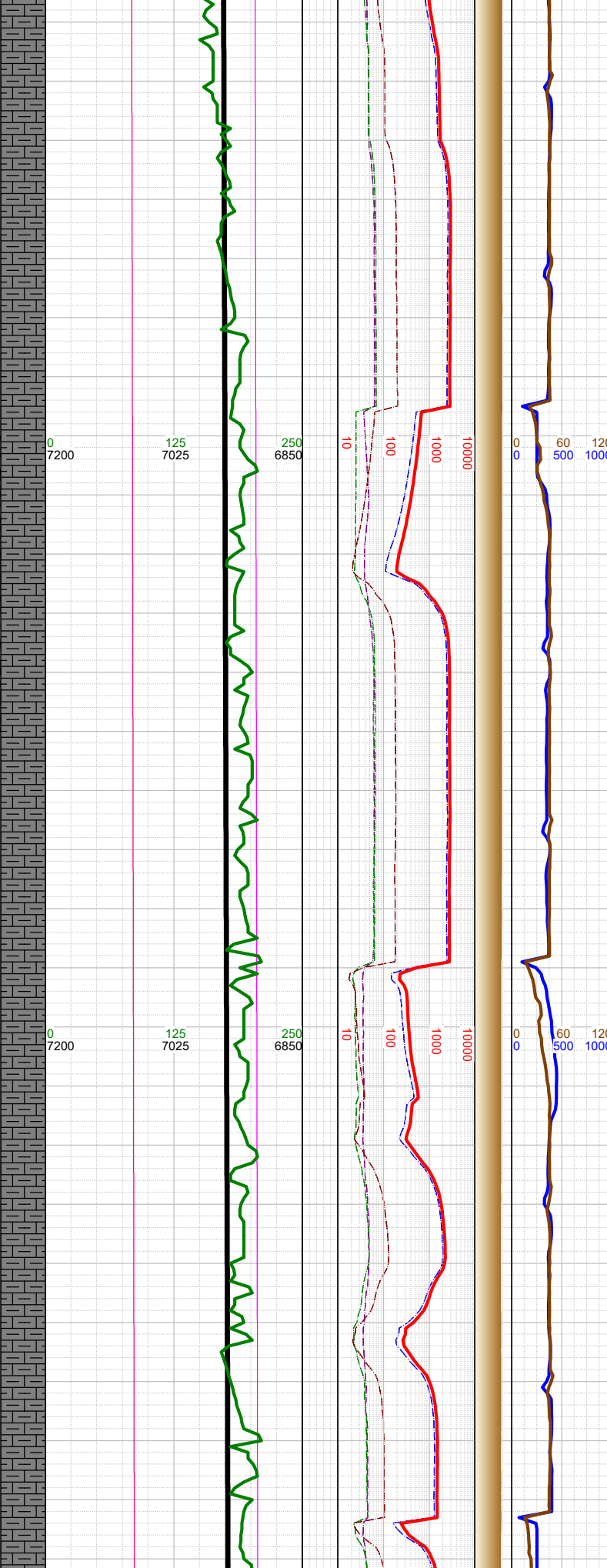
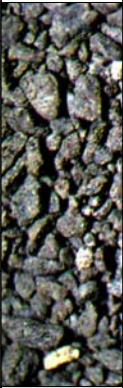


N	☀	-18405 INC 92.3, AZM 87.6, TVD 6978.88	
		-18420 WT 9.2, VIS 51	
N		-18436 Gas buster off	-18500 MARL: dk gy-blk, gy- med gy mot, sbblky- sbplty, sft-sbfrm, mod calc, mod arg, chky intbds; tr fos frags; tr pyr;
		-18500 WT 9.2, VIS 51	
N		-18594 INC	





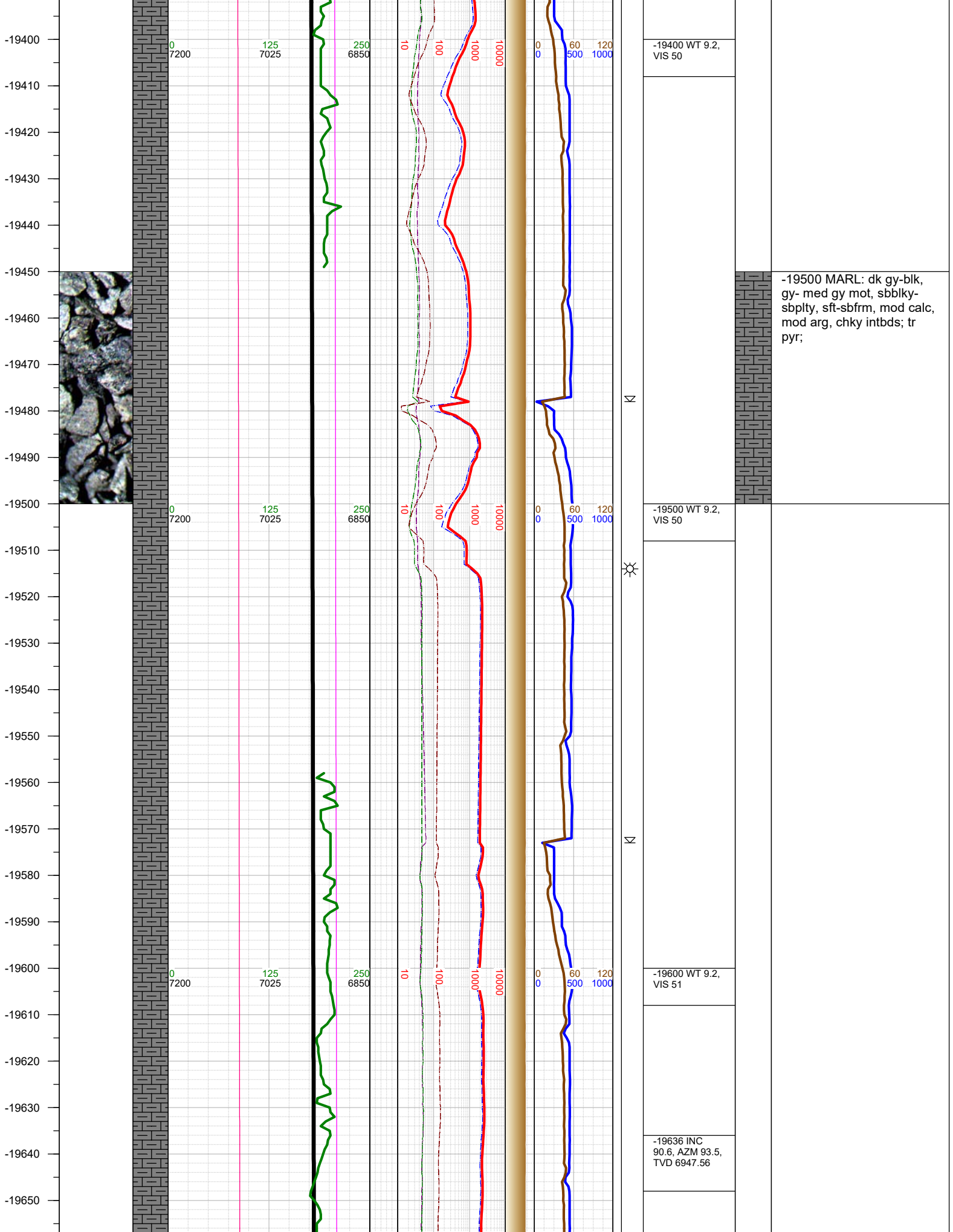
-19130
-19140
-19150
-19160
-19170
-19180
-19190
-19200
-19210
-19220
-19230
-19240
-19250
-19260
-19270
-19280
-19290
-19300
-19310
-19320
-19330
-19340
-19350
-19360
-19370
-19380
-19390



-19163 INC 91.3, AZM 89.4, TVD 6956.56	
-19200 WT 9.2, VIS 52	
-19257 INC 91.3, AZM 88.9, TVD 6954.43	
-19300 WT 9.2, VIS 50	
-19352 INC 91.3, AZM 89.1, TVD 6952.27	



-19250 MARL: dk gy-blk,
gy- med gy mot, sbblky-
sbplty, sft-sbfrm, mod calc,
mod arg, chky intbds; tr
pyr;



-19500 MARL: dk gy-blk, gy- med gy mot, sbblky-sbplty, sft-sbfrm, mod calc, mod arg, chky intbds; tr pyr;

-19660
-19670
-19680
-19690
-19700
-19710
-19720
-19730
-19740
-19750
-19760
-19770
-19780
-19790
-19800
-19810
-19820
-19830
-19840
-19850
-19860
-19870
-19880
-19890
-19900
-19910
-19920



0
7200

125
7025

250
6850

10
100

1000
10000

0
0

60
500

120
1000

-19700 WT 9.2,
VIS 52

-19731 INC
90.8, AZM 94.9,
TVD 6946.4

-19800 WT 9.2,
VIS 51

-19900 WT 9.2,
VIS 51

-19750 MARL: dk gy-blk,
gy- med gy mot, sbblky-
sbplty, sft-sbfrm, mod calc,
mod arg, chky intbds; abnt
gy bent

